THE COLLABORATIVE
+ACOCK

01/21/2026

ADDENDUM NO. 01

To the Drawings and Specifications for:

Oscoda Area Schools Miscellaneous Renovation Phase 2

107348

Oscoda Area Schools

Prepared By:

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TO ALL BIDDERS:

This addendum supplements and amends the original drawings and specifications, and shall be taken into account in preparing proposals, and shall become a part of the contract documents. Receipt of this Addendum must be acknowledged in the Bid Form.

GENERAL

Clarifications

- Abatement work is being sub contracted by owner. All other demo scope is the responsibility of the GC
- The bid opening time on the specs should be 3pm. Refer to https://www.oscodaschools.org/page/open-bids page for the final time and location of the bid opening
- See attached for updated hardware and specs for all projects
- See attached for missing NESHAP Documentation from HS Specs
- See attached for missing Oscoda Area Schools 2023 3 Year Re-Inspection Report from Richardson Specs

Questions:

Question 1: Will there be a separate bid package coming out for the Division 27 (Communications) and Division 28 (Electronic Safety and Security) work for these facilities?

Answer 1: The district will be handling all Security and Communications devices and is not within the scope of this project.

Question 2: We request approval for Navien Tankless Water Heaters combined with storage tanks be considered as equal to the specified Lochinvar AWN201PM water heaters. I have attached the CSI Substitution Request form along with Navien NPE-240S2 tankless water heater specification sheet and a comparison with the Lochinvar model. Also included is a document "Why Navien?" which includes a list of projects using Navien NPE-240S2 units combined with separate storage tanks. Storage tanks would be provided by others such as Lochinvar, Bradford White, and AO Smith. All are compatible with Navien tankless water heaters.

Answer 2: Substitution request denied

Question 3: Plumbing Fixture substitution request: MIFAB Floor cleanouts

Answer 3: MIFAB Floor cleanouts are already approved as an alternate in the specs

Question 4: We respectfully submit for your consideration a request to approve products as an accepted substitute on Oscoda Area Schools High School Phase 2 Construction; please find substitution request form attached. With over 30 years of experience, Scranton Products is the industry leader in plastic (HDPE) bathroom partitions and lockers. Constructed from premium, American-made solid plastic, our products resist dents, scratches, corrosion, graffiti and mildew. More information regarding the benefits of our products as well as technical data sheets and MSDS forms for the appropriate product(s), confirming performance as specified, can be reviewed via the links below:

Answer 4: Scranton Products are an accepted manufacturer for solid plastic toilet compartments

Question 5: No door hardware is shown for the new doors. Are we reusing the salvaged hardware?

Answer 5: See attached documents for Hardware specs for all projects

Question 6: D1.01 - Do we know how deep the sump is that appears to be getting filled in, in Scullery Room 208B?

Answer 6: Depth will need to be verified on site but it looks to be around 2 – 3”

Question 7: D1.01 - in room 208 Kitchen it shows to demo and replace the curbs with new slabs, but on A7.21 it shows (2) new curbs but no dimensions. Are these curbs to be demo'd and replaced with new and flush slab, or are they new curbs and/or raised pads? Is there reinforcement requirements?

Answer 7: Slabs are to be demoed as required for piping replacement, see updated note on D1.01. See S5.01 for standard housekeeping slab details

Question 8: D1.02 Slab Demo is shown leaving slab "islands" - drawing ought to show the entire area removed.

Answer 8: Slabs are to be demoed as required for piping replacement, see updated note on D1.01

Question 9: D1.03 calls for ceiling removal. Abatement drawings call for entire ceiling system to be removed. What will be remaining for demo after abatement?

Answer 9: Keynote C-4 on D1.03 was a general note to coordinate with the abatement drawings. We assume all demo contractors should carry some contingency for demo that is not being covered by the abatement drawings.

Question 10: D1.03 shows concrete removal for the perimeter drain but is missing the concrete removal for the new plumbing in the shower room.

Answer 10: This slab will be removed and replaced to accommodate the new floor slopes and walls. See D1.03 for new note to demo full floor to replace piping

Question 11: D1.03 there is a callout for EQP-4 but it isn’t on the keynotes. What is this meant to be?

Answer 11: EQP-04 refers to the existing grab bars

Question 12: D1.03 it calls out for the doors to be removed. On ASB-2H it says they are to remain. Which is it?

Answer 12: Doors marked on D1.03 are correct. ASB-2H has been updated.

Question 13: D1.03 Note FD 1 and FD 2 say to plug plumbing below floor line and level floor. on sheet PD 1.02 the general note for the bathrooms states to remove under floor sanitary piping and drains. Obviously this would cause us to have to do more floor demo and repair. please advise which sheet we should follow.

Answer 13: Follow the plumbing demo notes on PD1.02, see question 10 above for updated flooring demo.

Question 14: Please confirm all of the ceilings on D1.03 have asbestos.

Answer 14: Refer to the abetment drawings and the NESHAP report for all asbestos locations.

Question 15: Existing urinals are recessed in the floor (typ). Concrete floor will need to be sawcut and removed for new floor and plumbing relocation.

Answer 15: Demo and patch flooring as required for plumbing demo and new floor finishes

Question 16: P1.02 shows new underground sanitary for the locker rooms. None of the demo prints show demoing floor for this to go in. Please advise.

Answer 16: Demo and patch flooring as required for plumbing demo and new floor finishes

Question 17: Is the foundation for the generator pad 3 sided or 4 sided? Please provide a detail for the pad/building side.

Answer 17: See A1.11 for overall dimensions and 2/S5.01 for the slab details

Question 18: Richardson Alt-1-There are M and M1 walls that are non load bearing. Per A0.01 detail for those walls top of wall bracing system is required. However on the structural drawing S5.01 for this project that detail is not shown. It is only shown in the drawings for Base bid at the High School. Please advise.

Answer 18: Standard non load bearing detail has been added to S5.01

Question 19: Athletic Field Alt-2-Same question as above on the wall bracing clips for the two interior walls at the bathrooms.

Answer 19: Standard non load bearing detail has been added to S001

Question 20: The ADA ramp railing, is it expected to be stainless steel or steel with finish paint? Typically you don't paint SS and SS is obviously more expensive.

Answer 20: The railing should be stainless steel, We just want to see the metal finish options during submittals.

Question 21: There are M and M1 walls that are non-load bearing. Per A0.01 detail for those walls top wall bracing system is required. However, on the structural drawing S5.01 for this project that detail is not shown. It is only shown in the drawings for Base bid at the High School. Should I include them?

Answer 21: Standard non load bearing detail has been added to S5.01

Question 22: Same question as above on the wall bracing clips for the two interior walls at the bathrooms.

Answer 22: Standard non load bearing detail has been added to S001

Question 23: Hand driers were shown on A1.1, but no model number was supplied. Can IDS please provide a spec or basis of design?

Answer 23: BOD for the Hand dryer should be Bradley 2923-287401

Question 24: The wall sections on A4.10 show 4" INS-02 sprayed foam insulation - can this be ridged insulation instead?

Answer 24: Refer to F7/A1.10 for required exterior assemblies. Any deviations from the drawings will be handled via substitution requests

Architectural Drawings

High School:

Drawing D1.01
Item #1: Updated note to clarify slab kitchen slab demo

Drawing D1.03
Item #1: Added note to specify extent of shower room slab demo

Drawing A1.00
Item #1: Updated hardware sets

Drawing A7.21
Item #1: Updated note to show specify intent of slab replacement

Richardson:

Drawing A1.00
Item #1: Updated hardware sets

Soccer Field:

Drawing A1.00
Item #1: Updated hardware sets

Electrical Drawings

Richardson:

Drawing ED1.11
Item #1 Remove floor boxes, maintain circuit. Kitchen 56.

Drawing ED1.14
Item #1 Remove connections at unit ventilators, maintain circuit. Units E & F.

Drawing ED7.01
Item #1 Disconnect and extend fire alarm system circuit to critical panel. MS Addition.
Item #2 Disconnect and extend fire alarm system circuit to critical panel. Middle School.

Drawing E1.10
Item #1 Revise life safety electrical panel location. Mechanical 63.
Item #2 Add generator transfer device. Boys RR 72.

Drawing E1.11
Item #1 Add critical circuits for FACP and PA system. General Office 15.
Item #2 Revise critical power circuits. Conference Room 24.
Item #3 Add generator transfer devices. Gym 36 and Kitchen 56.
Item #4 Revise lighting circuit. Corridor 40.
Item #5 Add power circuits. Office 54.
Item #6 Clarify location of fan coils and walk-in compressors. Kitchen 56.
Item #7 Revise power circuits and disconnect switch sizes. Kitchen 56.
Item #8 Add oven power circuits. Kitchen 56.
Item #9 Add general kitchen circuits. Kitchen 56.

Drawing E1.12
Item #1 Add generator transfer device. Boys 33.

Drawing E1.13
Item #1 Add generator transfer devices. Electrical 96, Library 406/407, Corridor 411, Corridor 423, Mezzanine 432, Mech 434.

Drawing E1.14
Item #1 Add generator transfer device. Corridor 502.
Item #2 Add generator transfer device. Mech 520.

Item #3 Add generator transfer device. Commons 532.
Item #4 Add critical circuits. Office 538.

Drawing E6.02
Item #1 Add sheet E6.02 Electrical Schedules.

END OF ADDENDUM #01 (07 Written Pages)

STRUCTURAL DESIGN CRITERIA

BUILDING INFORMATION

STRUCTURE: RISK CATEGORY I
DESIGNED USING MICHIGAN BUILDING CODE 2025 w/ IBC 2021 & ASCE 7-16 BASIS
LATERAL FORCE RESISTING SYSTEM:
ORDINARY REINFORCED MASONRY BEARING & SHEAR WALLS

FLOOR LOADS

SLAB ON GRADE LIVE LOAD = 125 psf

ROOF LOADS

ROOF LIVE LOAD = 20 psf *(UNREDUCED)*
ROOF TOTAL DEAD LOAD = 15 psf
COLLATERAL = 5 psf

SNOW DESIGN

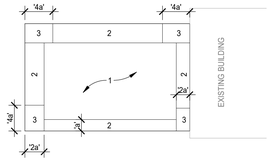
GROUND SNOW LOAD, P_g = 40 psf
ROOF FLAT SNOW LOAD, P_f = 24.6 psf
SNOW IMPORTANCE FACTOR, I_s = 0.8
ROOF EXPOSURE FACTOR, C_e = 1.0
ROOF THERMAL FACTOR, C_t = 1.1
RAIN ON SNOW SURCHARGE = 5 psf
ROOF MIN. SNOW LOAD, P_m = 16.0 psf
DESIGN ROOF SNOW LOAD = 24.6 psf

WIND DESIGN

ULTIMATE DESIGN WIND SPEED, V_{ult} = 100 mph *(V_{asd} = 78 mph)*
GUST FACTOR, G = 0.85
WIND EXPOSURE CATEGORY = C
TOPOGRAPHIC FACTOR, K_{zt} = 1.0
DIRECTIONALITY FACTOR, K_d = 0.85
ELEVATION FACTOR, K_e = 0.97
INTERNAL PRESSURE COEFFICIENT, GC_{pi} = +/- 0.18 (ENCLOSED)
EDGE STRIP, a = 3.0 ft
BASE PRESSURE, q_h = 18.1 psf

SELECTED WIND COMPONENT AND CLADDING LOADS

	A_e	10 sf		50 sf		100 sf	
		(+)	(-)	(+)	(-)	(+)	(-)
ROOF							
	ZONE 1	16.0	23.1 psf	16.0	23.1 psf	16.0	23.1 psf
	ZONE 2	16.0	26.7 psf	16.0	25.5 psf	16.0	24.9 psf
	ZONE 2'	16.0	32.2 psf	16.0	30.9 psf	16.0	30.3 psf
	ZONE 3	16.0	35.8 psf	16.0	28.2 psf	16.0	24.9 psf
	ZONE 3'	16.0	50.2 psf	16.0	37.6 psf	16.0	32.2 psf
WALLS		(+)	(-)	(+)	(-)	(+)	(-)
	ZONE 4	19.5	21.1 psf	17.5	19.1 psf	16.6	18.3 psf
	ZONE 5	19.5	26.0 psf	17.5	22.0 psf	16.6	20.3 psf



SEISMIC DESIGN

RISK CATEGORY = I
SEISMIC IMPORTANCE FACTOR, I_e = 1.0
S_s = 0.060g S_{DS} = 0.064g
S_1 = 0.030g S_{D1} = 0.048g
SITE CLASS = D (ASSUMED)
SEISMIC DESIGN CATEGORY = A
LATERAL FORCE RESISTING SYSTEM:
ORDINARY REINF. MASONRY SHEAR & BEARING WALLS

RESPONSE COEFFICIENT, C_s = 0.032
RESPONSE MODIFICATION FACTOR, R = 2.0
OVERSTRENGTH, Ω_0 = 1.75
DEFLECTION AMPLIFICATION, C_d = 1.75

ANALYSIS PROCEDURE:
EQUIVALENT LATERAL FORCE

BASE SHEAR, V = 0.6k

STORY DRIFT = 0.007 h_{sx} = 0.76"

VERTICAL IRREGULARITY: NONE PRESENT
HORIZONTAL IRREGULARITY: NONE PRESENT

GENERAL CONDITIONS

1. THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
2. WORKING DIMENSIONS SHOULD NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS.
4. PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., CAN NOT BE PLACED IN SLABS, FOUNDATIONS, ETC., AND NO STRUCTURAL MEMBER CAN BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.
5. WHILE EVERY ATTEMPT HAS BEEN MADE TO COORDINATE BETWEEN ALL DISCIPLINES, THE CONTRACTOR ULTIMATELY MUST REVIEW AND COORDINATE BETWEEN TRADES REGARDING OPENINGS AND CLASHES ON THIS CONSTRUCTION PROJECT. DO NOT ASSUME THE DOCUMENTS ARE CLASH-FREE AND SHOW EVERY OPENING, PENETRATION, AND/OR CONDITION.

SAFETY

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE WHEN COMPLETED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE PROCEDURES FOR ERECTION AND CONSTRUCTION SEQUENCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING AND ITS OCCUPANTS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE SHORING OR BRACING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADING DUE TO CONSTRUCTION.

FOUNDATION

1. STRUCTURAL DESIGN COMPLIES WITH THE PRESUMED VALUES PER MICHIGAN BUILDING CODE 2021 PRESUMPTIVE DESIGN VALUES PER TABLE 1806.2.

   ALLOWABLE SHALLOW SOIL BEARING PRESSURE = 1500 psf
   SUBGRADE MODULUS OF REACTION = 100 pci
   FROST DEPTH = 42" BELOW GRADE MIN.

2. GROUNDWATER IS NOT EXPECTED WITHIN THE CONSTRUCTION DEPTH. CONTRACTOR SHOULD REPORT ANY STANDING EXCAVATION WATER TO THE ENGINEER FOR REVIEW.
3. SUBGRADE PREPARATION, DRAINAGE PROVISIONS, AND OTHER RELEVANT SOIL CONSIDERATIONS ARE TO BE IN ACCORDANCE WITH GEOTECHNICAL INSPECTOR DIRECTION.
4. A GEOTECHNICAL ENGINEER SHOULD BE RETAINED TO PROVIDE OBSERVATION AND TESTING SERVICES DURING FOUNDATION SOILS EXCAVATION, BACKFILL GRADING, COMPACTION AND SUBGRADE PREPARATIONS. THE GEOTECHNICAL INSPECTION SHALL COMPLY WITH THE SPECIAL INSPECTIONS NOTE ELSEWHERE IN THESE DOCUMENTS. DO NOT COMMENCE CONSTRUCTION OF FOUNDATIONS UNTIL SITE IS IN CONFORMANCE.
5. FILL UNDER BUILDING SLABS SHALL BE MADE WITH CRUSHED STONE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 UNLESS NOTED OTHERWISE.
6. FOUNDATION ELEMENTS BEARING ON SHALLOW FOUNDATIONS SHALL BEAR ON SUBGRADE WITH A MINIMUM BEARING PRESSURE AS SHOWN ABOVE AND SHALL BE TESTED TO ENSURE THIS BEARING PRESSURE IS MET. THESE EXISTING SOILS SHALL BE PREPARED OR UNDERCUT & FILLED FOLLOWING THE GEOTECHNICAL INSPECTOR'S AND REPORT RECOMMENDATIONS.

STRUCTURAL AND MISCELLANEOUS STEEL

1. FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STANDARDS AND SPECIFICATIONS:

   A. *MANUAL OF STEEL CONSTRUCTION, 15th EDITION*

   B. *CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, LATEST EDITION*

   C. *SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.*

2. STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

BEAM WIDE FLANGE & CHANNELS:	ASTM A992 (Min. F_y = 50 ksi)
CHANNELS & ANGLES, &, T:	ASTM A36/A572 (Min. F_y = 50 ksi)
HSS RECT. & SQUARE TUBE:	ASTM A500, GRADE C (F_y = 50 ksi)
HSS ROUND:	ASTM A500, GRADE C (F_y = 50 ksi)
PIPE:	ASTM A53, GRADE B (F_y = 35 ksi)
GUSSET PLATES:	ASTM A36 (F_y = 36 ksi)
ALL OTHER STEEL:	ASTM A36 (F_y = 36 ksi)
COMMON BOLTS:	ASTM A325
ANCHOR RODS:	ASTM F1554 (GRADES PER DETAILS)

   ANCHOR ROD WASHER DIAMETERS REQUIRED: 3/4" ROD = 2" ⌀ WASHER / 1/4" THK.
   1" ROD = 3" ⌀ WASHER / 3/8" THK.
   1.25" ROD = 3" ⌀ WASHER / 1/2" THK.
   HEAVY HEX HEAD OR DOUBLE-NUT THREADED ROD

3. ALL BOLTS SHALL BE SNUG-TIGHT
4. ALL COLUMNS SHALL HAVE A NON-SHRINK GROUT AND 1/4" LEVELING PLATE(s) AND/OR NUTS BETWEEN THE BASE PLATE AND CONCRETE.

STRUCTURAL STEEL WELDING

1. CONFORM TO THE AWS CODES D1.1 AND D1.3, AND USE ONLY CERTIFIED WELDERS. INCREASE WELD SIZE TO AWS MINIMUM SIZES, BASED ON PLATE THICKNESS. USE DRY E70xx ELECTRODES. CONFORM TO AWS D.18 FOR SEISMIC APPLICATIONS.
2. ALL WELDING SHALL MEET APPLICABLE PRE-HEAT REQUIREMENTS
3. ANY SPECIFIED FIELD CJP WELDS FOR MEMBER SPLICES SHALL BE TESTED w/ NDT.

CONCRETE

1. CONCRETE SHALL CONFORM TO THE INDICATED REFERENCE CODES AND STANDARDS EXCEPT AS MODIFIED BELOW:

   ACI-301 - "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"
   ACI-318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
   ACI-305R - "HOT WEATHER CONCRETING"
   ACI-306R - "COLD WEATHER CONCRETING"
   ACI-304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"

2. CONCRETE MIX SPECIFICATIONS:

   MIX CATEGORIES:

   -SLAB ON GRADE: 4000 psi w/ 0.45 w/c RATIO TARGET; NO AIR; MAX. AGGREGATE: 1", GGBFS OR FLY ASH IS ACCEPTABLE UP TO 10% OF CEMENT WEIGHT. EXPOSURES: F0, C1, W2, S0

   -FOUNDATIONS: 4500 psi w/ 0.45 w/c RATIO TARGET; 6% AIR; MAX. AGGREGATE: 1.5", GGBFS OR FLY ASH IS ACCEPTABLE UP TO 25% OF CEMENT WEIGHT. EXPOSURES: F2, C1, W1, S0

3. TOTAL AIR CONTENT IS SPECIFIED IN THE TABLE ABOVE. AIR CONTENT TOLERANCE SHALL BE +/- 1-1/2 % AND SHALL BE MEASURED AT THE POINT OF PLACEMENT.
4. MUD-MAT OR FLOWABLE FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 7-DAYS OF 1500 psi.
5. THE CONCRETE MIX SUBMITTAL SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, TARGET SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA, w/ CHLORIDE ION CONTENT
6. ACCELERATED SET, OR HIGH EARLY STRENGTH MAY BE ACHIEVED BY USING APPROVED ADMIXTURES. ALL ADMIXTURES SHALL BE CHLORIDE FREE.
7. CURING: REFERENCE ACI 308 - STANDARD PRACTICE FOR CURING CONCRETE AND ACI 301 - STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE. CURING COMPOUNDS SHALL BE COMPATIBLE WITH FUTURE FLOOR FINISHES. SLABS TO RECEIVE SUBSEQUENT FLOORING MATERIALS SHALL RECEIVE AN APPROVED DISSIPATING SEALER. BASIS OF DESIGN IS EUCLID CHEMICAL DR. VOX.
8. NON-SHRINK, NON-METALLIC GROUT SHALL BE CEMENT BASED AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF F_c = 8,500 psi AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C1099M. GROUT BASIS OF DESIGN IS EUCLID CHEMICAL "NS GROUT" OR APPROVED EQUAL.
9. PROVIDE CONTROL JOINTS IN SLABS ON GRADE AS ANNOTATED ON THE FOUNDATION PLAN DRAWINGS. LOCATE CONTROL JOINTS AT COLUMN CENTER LINES OR AS INDICATED ON THE DRAWINGS. SAW CUT JOINTS TO 1/3 SLAB DEPTH.

REINFORCING STEEL

1. DESIGN, DETAIL, FABRICATE, AND ERECT REINFORCING STEEL ACCORDING TO THE LATEST ACI AND CRSI SPECIFICATION, REFERENCE STANDARDS: *ACI "DETAILING MANUAL" (SP-66); CRSI MANUAL OF STANDARD PRACTICE (MSP-1).*
2. DO NOT WELD REBAR UNLESS OTHERWISE APPROVED BY ENGINEER
3. EPOXY-COATED OR STAINLESS REBAR IS NOT PERMITTED
4. REINFORCING STEEL: ASTM A706 / A615, GRADE 60 (60 ksi), TYPICAL
5. STANDARD CONCRETE COVER REQUIREMENTS, UNLESS OTHERWISE NOTED:
   EARTH CAST:
   FOOTINGS: 3"
   SLABS: 2"
   FORM CAST:
   #5 BARS & SMALLER, EXPOSED FACE: 1.5"
   LARGER THAN #5 BARS, EXPOSED FACE: 2"
   SLABS & WALLS, INTERIOR FACE: 0.75"
   BEAMS & COLUMNS, INTERIOR FACE: 1.5"
   EXPOSED SURFACES
   COLUMNS (CLEAR TO TIES, HOOPS, OR SPIRALS): 1.5"
   COLUMNS (CLEAR TO PRIMARY REINF.): 2"
   COLUMNS & WALLS: 0.75"
   SLABS, INTERIOR: 0.75"
   SLABS, EXTERIOR; 1"
   CONCRETE IN CONTACT WITH OR OVER WATER: 2" MIN.
   CAISSONS / DRILLED SHAFTS: 4" (TO VERT. REINF.)
6. REINFORCING LAP SPLICES IN CONCRETE SHALL CONFORM WITH ACI 318-19 (22) SECTIONS 25.4.2 AND 25.5. ALL SPLICES SHALL BE CLASS A SPLICES.
7. REINFORCING TENSION DEVELOPMENT LENGTHS SHALL CONFIRM WITH ACI 318-19 (22) SECTION 25.4.2.4a

POST-INSTALLED EPOXY ADHESIVES ANCHORS & MECHANICAL ANCHORS

1. ANCHORS SHOWN IN DETAILS AND SCHEDULES CONSTITUTE A BASIS OF DESIGN ANCHOR.
2. CONTRACTOR MAY SUBMIT ALTERNATIVE ANCHOR MANUFACTURERS THROUGH SHOP DRAWINGS. PROVIDE AN ICC REPORT VALIDATING THE PROPOSED ANCHOR PERFORMANCE IS EQUAL TO THE BASIS OF DESIGN ANCHOR.
3. CONTRACTOR SHALL INSTALL ALL POST-INSTALLED EPOXY AND MECHANICAL ANCHORS PER ALL MANUFACTURER INSTRUCTIONS, WITH ATTENTION TO TEMPERATURE AND HOLE PREPARATION REQUIREMENTS.
4. CONTRACTOR MAY NOT DEVIATE FROM THE ANCHOR DIAMETER, EMBEDMENT, EDGE DISTANCE AND SPACING CRITERIA NOTED ON THE DETAILS. IF NOT NOTED, PROVIDE THE MOST RESTRICTIVE SPACING AND EDGE DISTANCE DIMENSIONS THAT ALLOW FOR NO REDUCTION IN ANCHOR STRENGTH. ANY DEVIATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
5. NOTIFY THE ENGINEER IMMEDIATELY IF CONDITIONS ENCOUNTERED DIFFER FROM THE EXPECTED CONDITIONS. FOR EXAMPLE, IF THE MASONRY CELL IS HOLLOW INSTEAD OF GROUTED.

CONCRETE MASONRY

1. CEMENT FOR MORTAR AND GROUT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150; MORTAR AGGREGATE PER ASTM C144; GROUT PER ASTM C404; HYDRATED LIME PER ASTM C207; QUICK LIME PER ASTM C5; WATER WILL BE CLEAN AND POTABLE.
2. NEW CMU WALL DESIGN TARGET f'_m = 2000 psi
3. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT AND HAVE A MIN. NET AREA COMPRESSIVE STRENGTH f'_{cmu} = 3250 psi IN ACCORDANCE WITH ASTM C90.
4. MORTAR SHALL BE MASONRY-CEMENT, TYPE S, UNIFORMLY MIXED, IN ACCORDANCE WITH ASTM C91. AVERAGE COMPRESSIVE STRENGTH OF MORTAR (28-DAY) IS 1800 psi. THE MAXIMUM AIR CONTENT SHALL BE 19%.
5. GROUT FOR SHOULD CONFORM TO ASTM C476. MINIMUM COMPRESSIVE STRENGTH f'_g = 2000 psi (28-DAY) IS REQUIRED. FINE GROUT OR COARSE GROUT SHALL BE SELECTED BASED ON MINIMUM GROUT SPACING REQUIREMENTS OF ACI 530.1. MAX AGGREGATE SIZE IS 3/8" FOR COARSE GROUT. ADMIXTURES MAY BE ADDED TO ACHIEVE THE DESIRED SLUMP OR WORKABILITY.
6. ALL CELLS CONTAINING REINFORCING OR EMBEDDED ITEMS AND ALL CELLS BELOW GRADE SHALL BE SOLID GROUTED. GROUT LIFTS SHALL BE LESS THAN 5'-4". HIGH LIFT GROUTING w/ CLEANOUTS CAN BE USED UP TO 12'-8"
7. ALL UNITS TO BE CONSTRUCTED UP IN RUNNING BOND. THICKNESS OF BED AND HEAD JOINTS SHALL NOT EXCEED 5/8".
8. ALL EXTERIOR EXPOSED CMU SHALL HAVE INTRINSIC WATERPROOFING ADMIXTURE ADDED TO CONCRETE MASONRY CASTING MIX. SUBMIT DATA SHEET TO A/E FOR REVIEW.
9. ALL WALLS HAVE LADDER MASONRY WALL REINFORCEMENT IN EVERY OTHER HORIZONTAL JOINT (16" C/C) AND IN EACH JOINT (8" C/C) FOR TWO JOINTS ABOVE & BELOW OPENINGS. REINFORCEMENT SHALL BE CONTINUOUS WITH 6" MIN. LAPS. REINFORCEMENT AT OPENINGS SHALL EXTEND 2'-0" BEYOND EACH SIDE OF THE OPENING. CAVITY WALLS SHALL HAVE ONE ROD FOR EACH BED JOINT. MIN. LADDER WIRE SIZE IS W1.7 (9 ga) GALVANIZED.
10. **MASONRY WALLS ON THESE DOCUMENTS ARE NOT DESIGNED AS FREE-END CANTILEVER** OR RETAINING WALL ELEMENTS. WALLS SHALL BE EQUALLY BACKFILLED BOTH SIDES. DO NOT ATTEMPT TO UNEQUALLY BACKFILL WALLS. DO NOT OPERATE HEAVY EQUIPMENT IN THE VICINITY OF THESE SUB-SURFACE MASONRY WALLS. WALLS ABOVE GRADE MUST BE BRACED DURING CONSTRUCTION FOR WIND LOADS WHILE UNDER CONSTRUCTION.
11. MASONRY DEVELOPMENT OR EMBED LENGTHS (inches)

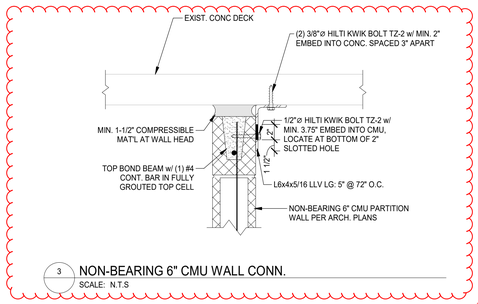
REBAR	CENTERED SPLICE / DEVELOP.	OFFSET DEVELOP.	HOOK EMBED
#3	12"	19"	4.8"
#4	15"	34"	6.5"
#5	23"	45"	8.1"
#6	43"	54"	9.7"
#7	60"	63"	11.3"

LIGHT-GAUGE METAL FRAMING (COLD-FORMED STEEL)

1. LIGHT GAUGE FRAMING SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST AISI *"SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"*.
2. COLD FORMED STEEL STUDS ON THIS PROJECT HAVE BEEN DESIGNED AND DO NOT NEED A DELEGATED ENGINEERING DESIGN. PROVIDE STUD SIZES AS NOTED ON THE ARCHITECTURAL AND STRUCTURAL PLANS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE A/E FOR REVIEW.
3. MATERIALS SHALL MEET ASTM A446 AND A525 REQUIREMENTS FOR ZINC COATED SHEET STEEL. ALL COLD FORMED STUDS USED IN EXTERIOR CURTAINWALL AND SHEARWALL APPLICATIONS SHALL BE MIN. 50 ksi (F_y=50 ksi) STRENGTH.
4. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS "CODE FOR WELDING IN BUILDING CONSTRUCTION, D1.0" AND ANSI Z49.1. IF WELDING IS USED, APPLY A REPLACEMENT ZINC-RICH PAINT.
5. MINIMUM WELD THICKNESS (t) MUST MATCH OR EXCEED BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE.
6. COLD-FORMED LIGHT GAUGE STEEL FRAMING MEMBERS SHALL INCLUDE "C"-SHAPED AND ANGLES, STRUCTURAL STEEL STUDS, JOIST, AND RUNNER TRACK.
7. PROVIDE WALL BRACING, JOIST BRIDGING, WEB STIFFENERS, AND OTHER ACCESSORIES PER MANUFACTURERS' SPECIFICATIONS AND REQUIREMENTS. WALL STUDS SHOULD BE BRACED TO PREVENT ROTATION OF FLANGES AT 4' MAX. JOISTS SHALL BE BRACED AGAINST ROTATION AT 5' MAX. BASIS OF DESIGN FOR KNOCK OUT BRACING BTW. STUDS IS "CLARK DIETRICH TRADEREADY SPAZZER 5400 BRIDGING/SPACER". STUD TO BRACE SHALL BE EITHER "CLARK DIETRICH S545 w/ (2) #10-16 SCREWS TO STUD & TO SPAZZER" OR "CLARK DIETRICH SPAZZER 5400 GUARD w/ (2) #10-16 SCREWS"
8. USE A MIN. OF (3) STUDS AT CORNERS OF ALL EXTERIOR WALLS AND (3) STUDS AT INTERSECTIONS OF ALL LOAD BEARING WALLS (INTERIOR AND EXTERIOR).
9. HEADERS AND BEAMS SHALL BE CONSTRUCTED OF UNPUNCHED MATERIALS.
10. MAXIMUM GAP BETWEEN WEB OF STUDS AND WEB OF TRACK FOR A SEATED STUD IS 1/8" FOR ALL STRUCTURAL WALLS. PRESSURE SHOULD BE APPLIED TO NEST STUDS INTO TRACKS.
11. HEADERS SHALL BE LOCATED AT THE TOP OF THE WALL OR AT BEARING OF STRUCTURE ABOVE WITH "FALSEWORK" DOWN TO FORM OPENING. VOIDS WITHIN HEADERS IN INSULATED WALLS SHALL BE FILLED w/ INSULATION.
12. JAMB STUDS (JACK STUDS) SHALL BE ATTACHED TO KING (FULL HEIGHT) STUDS w/ (1) #10 SCREW @ 8" O.C., CENTERED ON STUD.
13. SILL TRACK ASSEMBLY SHALL BE ANCHORED TO JAMB STUDS w/ LIGHT GAUGE CLIP ANGLE, BASIS OF DESIGN IS "CLARK DIETRICH S545 w/ (2) #10-16 SCREWS PER LEG"
14. SHEATHING MATERIALS SHALL BE FASTENED TO STUD WALLS IN COMPLIANCE w/ PLANS.
15. INSTALLER SHALL NOTE ALL WALL LOUVERS & DUCT PENETRATIONS AND PROVIDE BOX HEADERS, JACK STUDS, AND APPROPRIATE METHODS FOR SUCH LOCATIONS.
16. SCREWS ARE AS INDICATED ON DETAILS OR DRAWINGS, PROVIDED TO FOLLOWING:
    A. CFS TO CFS: #10-16 x 5/8" PAN HEAD, BUILDEX "TEKS" OR GRABBER SELF-DRILL
    B. CFS TO CFS: #12-24 x 1-1/4" HEX HEAD, #5 TIP, BUILDEX "TEKS" OR HILTI KWIK-PRO
    C. CFS TO CONCRETE: 0.157" DIA. PAF (POWDER ACTUATED FASTENER), HILTI X-U
17. ALL SCREWS REQUIRE 1/2" MINIMUM CLEARANCE TO EDGES OF MEMBERS AND 1/2" MINIMUM CLEARANCE BETWEEN SCREWS.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS LISTED BELOW SHOULD COMPLY WITH THE APPLICABLE LISTED STANDARDS. SPECIFIC INSPECTION REQUIREMENTS ARE NOT NOTED HERE FOR PURPOSES OF BREVITY. THE OWNER AND/OR CONTRACTOR SHALL PROVIDE FOR SPECIAL INSPECTIONS AS INDICATED BELOW.
2. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR AND/OR OWNER OR THEIR REPRESENTATIVE WILL PROVIDE A STATEMENT OF CONFORMANCE TO THE ENGINEER FOR REVIEW, CONCURRENCE, AND SUBMITTAL TO THE AUTHORITY HAVING JURISDICTION FOR THE RECORD.
3. SPECIAL INSPECTIONS REQUIRED:
   A. STEEL SPECIAL INSPECTIONS PER 1705.2: NOT APPLICABLE
   B. CONCRETE SPECIAL INSPECTIONS PER 1705.3: **REQUIRED**
   C. MASONRY SPECIAL INSPECTIONS PER 1705.4: **REQUIRED, LEVEL 1**
   D. WOOD SPECIAL INSPECTIONS PER 1705.5: NOT APPLICABLE
   E. SOIL SPECIAL INSPECTIONS PER 1705.6: **REQUIRED**
   F. DEEP DRIVEN FOUNDATION SPECIAL INSPECTIONS PER 1705.7: NOT APPLICABLE
   G. SPECIAL INSPECTIONS FOR WIND RESISTANCE: NOT REQUIRED
   H. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE: NOT REQUIRED
4. SPECIAL INSPECTIONS TO COMPLY WITH THE FOLLOWING:
   A. CONCRETE: TABLE 1705.3 AND ACI 318
      a. ITEM 3 ANCHORS - PERIODIC
      b. ITEM 4 POST-INSTALLED ANCHORS - CONTINUOUS
      c. ITEM 5 MIXES - PERIODIC
      d. ITEM 6 BATCH TESTING - CONTINUOUS
      e. ITEM 7 PLACEMENT - CONTINUOUS
      f. ITEM 8 CURING - PERIODIC
   B. MASONRY: TMS 402/602 TABLE 3 & TABLE 4
   C. SOIL: TABLE 1705.6
      a. ITEM 1 SOIL ADEQUACY - PERIODIC
      b. ITEM 2 EXCAVATION EXTENTS - PERIODIC
      c. ITEM 3 CLASS & COMPACTION - PERIODIC
      d. ITEM 4 MAT'L & THICKNESS TESTING - CONTINUOUS
      e. ITEM 5 SUBGRADE PREP - PERIODIC



3 NON-BEARING 6" CMU WALL CONN.
SCALE: N.T.S

01

THE COL LAB ORAT IVE

ANDREW BROCK ENGINEER
structural & civil engineering

STATE OF MICHIGAN
ANDREW M. BROCK
ENGINEER
No. 6201069379
LICENSED PROFESSIONAL ENGINEER
11/21/2025

KEY PLAN
N.T.S.

PROJECT TITLE
Oscoda Area Schools

OAS Misc. Renovation Projects

3550 E River Rd,
Oscoda Township, MI 48750

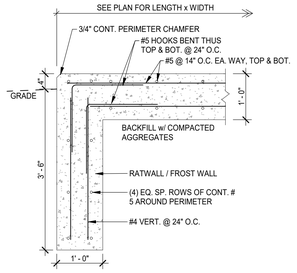
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	11.21.2025	BID/PERMIT

TC JOB NO. 107348
OWNER JOB NO.
AMB ENG. JOB NO. 20250131

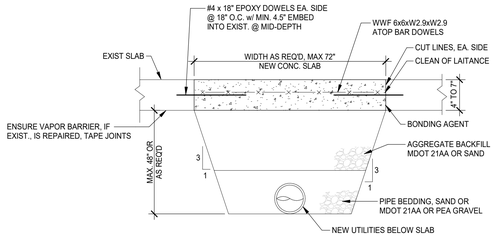
SHEET TITLE
STRUCTURAL NOTES & SPECIAL INSPECTIONS

SHEET NO.
S001

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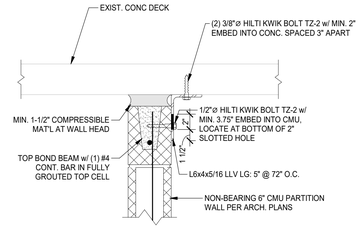


2 S5.01 GENERATOR FOUNDATION
SCALE: 3/4" = 1'-0"

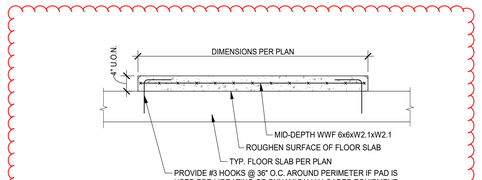


NOTES:
1. CONCRETE: USE 4000 psi MIX, NO AIR, MAX. AGG. 3/4", W/C = 0.47 +/-
2. REBAR: ASTM A615 GR. 60
3. MESH: ASTM A1064
4. PROVIDE VIBRATORY PLATE COMPACTION ON PIPE BEDDING & BACKFILL, NO TESTING REQ'D
5. VAPOR BARRIER, IF PRESENT: 15 mil
6. CONC. FINISH IF FLOORING IS USED: FLOAT w/ SEALER, DISSIPATING, EUCLID CHEMICAL OR VOX
7. CONC. FINISH IF EXPOSED FINISH: FLOAT w/ DENSIFIER, PROSOCO LS/CS

1 S5.01 DETAIL AT UTILITY TRENCHING
SCALE: 3/4" = 1'-0"



3 NON-BEARING 6" CMU WALL CONN.
SCALE: N.T.S



5 S1.01 HOUSEKEEPING PAD
SCALE: 3/4" = 1'-0"

01

CONCRETE

1. CONCRETE SHALL CONFORM TO THE INDICATED REFERENCE CODES AND STANDARDS EXCEPT AS MODIFIED BELOW:

   ACI-301 - *"STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"*
   ACI-318 - *"BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"*
   ACI-305R - *"HOT WEATHER CONCRETING"*
   ACI-306R - *"COLD WEATHER CONCRETING"*
   ACI-304 - *"GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"*

2. CONCRETE MIX SPECIFICATIONS:

   MIX CATEGORIES:

   -SLAB ON GRADE- 4000 psi w/ 0.45 w/c RATIO TARGET; NO AIR- MAX. AGGREGATE: 1", GGBFS OR FLY ASH IS ACCEPTABLE UP TO 10% OF CEMENT WEIGHT. EXPOSURES: F0, C1, W2, S0

   -FOUNDATIONS- 4500 psi w/ 0.45 w/c RATIO TARGET; 6% AIR- MAX. AGGREGATE: 1.5", GGBFS OR FLY ASH IS ACCEPTABLE UP TO 25% OF CEMENT WEIGHT. EXPOSURES: F2, C1, W1, S0

3. ACCELERATED SET, OR HIGH EARLY STRENGTH MAY BE ACHIEVED BY USING APPROVED ADMIXTURES. ALL ADMIXTURES SHALL BE CHLORIDE FREE.

4. CURING: REFERENCE ACI 308 - STANDARD PRACTICE FOR CURING CONCRETE AND ACI 301 - STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE. CURING COMPOUNDS SHALL BE COMPATIBLE WITH FUTURE FLOOR FINISHES. SLABS TO RECEIVE SUBSEQUENT FLOORING MATERIALS SHALL RECEIVE AN APPROVED DISSIPATING SEALER. BASIS OF DESIGN IS EUCLID CHEMICAL DR. VOX.

5. NON-SHRINK, NON-METALLIC GROUT SHALL BE CEMENT BASED AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF f'_c = 8,500 psi AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C109M. GROUT BASIS OF DESIGN IS EUCLID CHEMICAL "NS GROUT" OR APPROVED EQUAL.

6. PROVIDE CONTROL JOINTS IN SLABS ON GRADE AS ANNOTATED ON THE FOUNDATION PLAN DRAWINGS. LOCATE CONTROL JOINTS AT COLUMN CENTER LINES OR AS INDICATED ON THE DRAWINGS. SAW CUT JOINTS TO 1/3 SLAB DEPTH.

REINFORCING STEEL

1. DESIGN, DETAIL, FABRICATE, AND ERECT REINFORCING STEEL ACCORDING TO THE LATEST ACI AND CRSI SPECIFICATION, REFERENCE STANDARDS: *ACI "DETAILING MANUAL" (SP-66); CRSI MANUAL OF STANDARD PRACTICE (MSP-1).*

2. DO NOT WELD REBAR UNLESS OTHERWISE APPROVED BY ENGINEER

3. EPOXY-COATED OR STAINLESS REBAR IS NOT PERMITTED

4. REINFORCING STEEL: ASTM A706 / A615, GRADE 60 (60 ksi), TYPICAL

5. STANDARD CONCRETE COVER REQUIREMENTS, UNLESS OTHERWISE NOTED:
   - EARTH CAST:
     - FOOTINGS: 3"
     - SLABS: 2"
   - FORM CAST:
     - #5 BARS & SMALLER, EXPOSED FACE: 1.5"
     - LARGER THAN #5 BARS, EXPOSED FACE: 2"
     - SLABS & WALLS, INTERIOR FACE: 0.75"
     - BEAMS & COLUMNS, INTERIOR FACE: 1.5"
   - EXPOSED SURFACES
     - COLUMNS (CLEAR TO TIES, HOOPS, OR SPIRALS): 1.5"
     - COLUMNS (CLEAR TO PRIMARY REINF.): 2"
     - COLUMNS & WALLS: 0.75"
     - SLABS, INTERIOR: 0.75"
     - SLABS, EXTERIOR: 1"
   - CONCRETE IN CONTACT WITH OR OVER WATER: 2" MIN.
   - CAISSONS / DRILLED SHAFTS: 4" (TO VERT. REINF.)

6. REINFORCING LAP SPLICES IN CONCRETE SHALL CONFORM WITH ACI 318-19 (22) SECTIONS 25.4.2 AND 25.5. ALL SPLICES SHALL BE CLASS A SPLICES.

7. REINFORCING TENSION DEVELOPMENT LENGTHS SHALL CONFIRM WITH ACI 318-19 (22) SECTION 25.4.2.4a

CONCRETE MASONRY

1. CEMENT FOR MORTAR AND GROUT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150; MORTAR AGGREGATE PER ASTM C144; GROUT PER ASTM C404; HYDRATED LIME PER ASTM C207; QUICK LIME PER ASTM C5; WATER WILL BE CLEAN AND POTABLE.

2. NEW CMU WALL DESIGN TARGET f'_m = 2000 psi

3. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT AND HAVE A MIN. NET AREA COMPRESSIVE STRENGTH f'_{cmu} = 3250 psi IN ACCORDANCE WITH ASTM C90.

4. MORTAR SHALL BE MASONRY-CEMENT, TYPE S, UNIFORMLY MIXED, IN ACCORDANCE WITH ASTM C91. AVERAGE COMPRESSIVE STRENGTH OF MORTAR (28-DAY) IS 1800 psi. THE MAXIMUM AIR CONTENT SHALL BE 19%.

5. GROUT FOR SHOULD CONFORM TO ASTM C476. MINIMUM COMPRESSIVE STRENGTH f'_g = 2000 psi (28-DAY) IS REQUIRED. FINE GROUT OR COARSE GROUT SHALL BE SELECTED BASED ON MINIMUM GROUT SPACING REQUIREMENTS OF ACI 530.1. MAX AGGREGATE SIZE IS 3/8" FOR COARSE GROUT. ADMIXTURES MAY BE ADDED TO ACHIEVE THE DESIRED SLUMP OR WORKABILITY.

6. ALL CELLS CONTAINING REINFORCING OR EMBEDDED ITEMS AND ALL CELLS BELOW GRADE SHALL BE SOLID GROUTED. GROUT LIFTS SHALL BE LESS THAN 5'-4". HIGH LIFT GROUTING w/ CLEANOUTS CAN BE USED UP TO 12'-8"

7. ALL UNITS TO BE CONSTRUCTED UP IN RUNNING BOND. THICKNESS OF BED AND HEAD JOINTS SHALL NOT EXCEED 5/8".

8. CMU WALLS IN RESTROOM/SHOWER AREAS SHALL HAVE INTRINSIC WATERPROOFING ADMIXTURE ADDED TO CONCRETE MASONRY CASTING MIX. SUBMIT DATA SHEET TO A/E FOR REVIEW.

9. ALL WALLS HAVE LADDER MASONRY WALL REINFORCEMENT IN EVERY OTHER HORIZONTAL JOINT (16" C/C) AND IN EACH JOINT (8" C/C) FOR TWO JOINTS ABOVE & BELOW OPENINGS. REINFORCEMENT SHALL BE CONTINUOUS WITH 6" MIN. LAPS. REINFORCEMENT AT OPENINGS SHALL EXTEND 2'-0" BEYOND EACH SIDE OF THE OPENING. CAVITY WALLS SHALL HAVE ONE ROD FOR EACH BED JOINT. MIN. LADDER WIRE SIZE IS W1.7 (9 ga) GALVANIZED.

10. **MASONRY WALLS ON THESE DOCUMENTS ARE NOT DESIGNED AS FREE-END CANTILEVER** OR RETAINING WALL ELEMENTS. WALLS SHALL BE EQUALLY BACKFILLED BOTH SIDES. DO NOT ATTEMPT TO UNEQUALLY BACKFILL WALLS. DO NOT OPERATE HEAVY EQUIPMENT IN THE VICINITY OF THESE SUB-SURFACE MASONRY WALLS. WALLS ABOVE GRADE MUST BE BRACED DURING CONSTRUCTION FOR WIND LOADS WHILE UNDER CONSTRUCTION.

11. MASONRY DEVELOPMENT OR EMBED LENGTHS (inches)

REBAR	CENTERED SPLICE / DEVELOP.	OFFSET DEVELOP.	HOOK EMBED
#3	12"	19"	4.8"
#4	15"	34"	6.5"
#5	23"	45"	8.1"
#6	43"	54"	9.7"
#7	60"	63"	11.3"

STRUCTURAL AND MISCELLANEOUS STEEL

1. FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STANDARDS AND SPECIFICATIONS:

   A. *MANUAL OF STEEL CONSTRUCTION, 15th EDITION*

   B. *CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, LATEST EDITION*

   C. *SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.*

2. STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

BEAM WIDE FLANGE & CHANNELS:	ASTM A992 (Min. F_y = 50 ksi)
CHANNELS & ANGLES, ALT.	ASTM A572 (Min. F_y = 50 ksi)
HSS RECT. & SQUARE TUBE:	ASTM A500, GRADE C (F_y = 50 ksi)
HSS ROUND:	ASTM A500, GRADE C (F_y = 50 ksi)
PIPE:	ASTM A53, GRADE B (F_y = 35 ksi)
GUSSET PLATES:	ASTM A36 (F_y = 36 ksi)
ALL OTHER STEEL:	ASTM A36 (F_y = 36 ksi)
COMMON BOLTS:	ASTM A325
ANCHOR RODS:	ASTM F1554 (GRADES PER DETAILS) HEAVY HEX HEAD OR DOUBLE-NUT THREADED ROD

ANCHOR ROD WASHER DIAMETERS REQUIRED:
3/4" ROD = 2" ø WASHER / 1/4" THK.
1" ROD = 3" ø WASHER / 3/8" THK.
1.25" ROD = 3" ø WASHER / 1/2" THK.

3. ALL BOLTS SHALL BE SNUG-TIGHT

4. ALL COLUMNS SHALL HAVE A NON-SHRINK GROUT AND 1/4" LEVELING PLATE(s) AND/OR NUTS BETWEEN THE BASE PLATE AND CONCRETE.

STRUCTURAL STEEL WELDING

1. CONFORM TO THE AWS CODES D1.1 AND D1.3, AND USE ONLY CERTIFIED WELDERS. INCREASE WELD SIZE TO AWS MINIMUM SIZES, BASED ON PLATE THICKNESS. USE DRY E70xx ELECTRODES. CONFORM TO AWS D.18 FOR SEISMIC APPLICATIONS.

2. ALL WELDING SHALL MEET APPLICABLE PRE-HEAT REQUIREMENTS

3. ANY SPECIFIED FIELD CJP WELDS FOR MEMBER SPLICES SHALL BE TESTED w/ NDT.

THE COLLABORATIVE

ANDREW BROCK ENGINEER
structural & civil engineering

KEY PLAN
N.T.S.

PROJECT TITLE

Oscoda Area Schools

Oscoda High School Misc Renovation

3550 E River Rd,
Oscoda Township, MI 48750

01	1.21.2026 ADDEDUM 01
	11.21.2025 CAD DETAILS

TC JOB NO. 107348

OWNER JOB NO.

AMB ENG. JOB NO. 20250131

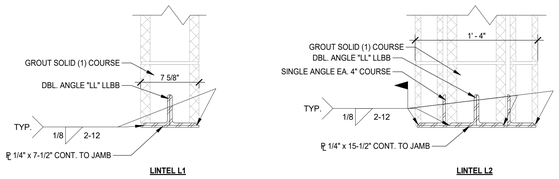
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STRUCTURAL DETAILS

SHEET NO.

S5.01

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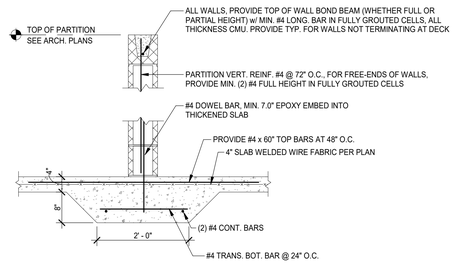
LINTEL L1 **LINTEL L2**

STEEL ANGLE LINTEL SCHEDULE FOR NON-BEARING BRICK VENEER ONLY			
DESIGNATION	LINTEL	END BEARING	NOTES
L1	L3-1/2x3-1/2x5/16	8"	TYP. MAN DOOR IN 8" WALL
L2	L3-1/2x3-1/2x5/16	8"	TYP. MAN DOOR IN 16" WALL

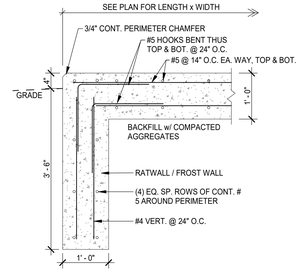
NOTES:

1. REFER TO ARCH. PLANS FOR OPENING LOCATIONS & CLEAR SPANS

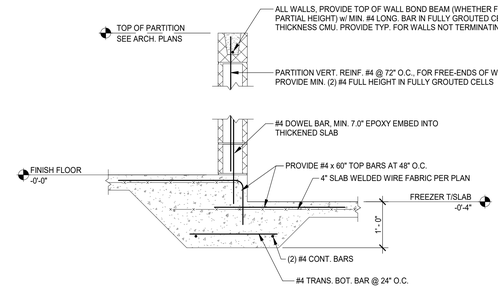
1 S5.01 STEEL ANGLE LINTEL DETAIL
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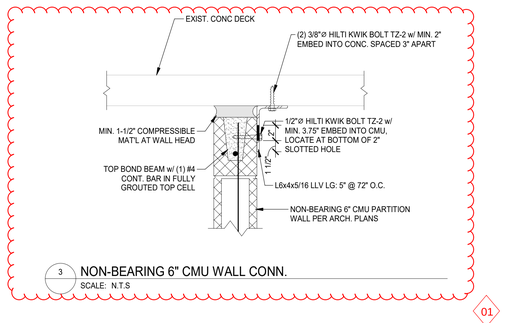
2 S5.01 THICKENED SLAB DETAIL
SCALE: 3/4" = 1'-0"



3 S5.01 GENERATOR FOUNDATION
SCALE: 3/4" = 1'-0"



5 S5.01 THICKENED SLAB DETAIL AT FREEZER
SCALE: 3/4" = 1'-0"



3 NON-BEARING 6" CMU WALL CONN.
SCALE: N.T.S

01

CONCRETE

1. CONCRETE SHALL CONFORM TO THE INDICATED REFERENCE CODES AND STANDARDS EXCEPT AS MODIFIED BELOW:

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   ACI-318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
   ACI-305R - "HOT WEATHER CONCRETING"
   ACI-306R - "COLD WEATHER CONCRETING"
   ACI-304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"

2. CONCRETE MIX SPECIFICATIONS:

   MIX CATEGORIES:

   -SLAB ON GRADE: 4000 psi w/ 0.45 w/c RATIO TARGET; NO AIR; MAX. AGGREGATE: 1". GGBFS OR FLY ASH IS ACCEPTABLE UP TO 10% OF CEMENT WEIGHT. EXPOSURES: F0, C1, W2, S0

   -FOUNDATIONS: 4500 psi w/ 0.45 w/c RATIO TARGET; 6% AIR. MAX. AGGREGATE: 1.5", GGBFS OR FLY ASH IS ACCEPTABLE UP TO 25% OF CEMENT WEIGHT. EXPOSURES: F2, C1, W1, S0

3. ACCELERATED SET, OR HIGH EARLY STRENGTH MAY BE ACHIEVED BY USING APPROVED ADMIXTURES. ALL ADMIXTURES SHALL BE CHLORIDE FREE.

4. CURING: REFERENCE ACI 308 - STANDARD PRACTICE FOR CURING CONCRETE AND ACI 301 - STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE. CURING COMPOUNDS SHALL BE COMPATIBLE WITH FUTURE FLOOR FINISHES. SLABS TO RECEIVE SUBSEQUENT FLOORING MATERIALS SHALL RECEIVE AN APPROVED DISSIPATING SEALER. BASIS OF DESIGN IS EUCLID CHEMICAL DR. VOX.

5. NON-SHRINK, NON-METALLIC GROUT SHALL BE CEMENT BASED AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF f'_c = 8,500 psi AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C109M. GROUT BASIS OF DESIGN IS EUCLID CHEMICAL "NS GROUT" OR APPROVED EQUAL.

6. PROVIDE CONTROL JOINTS IN SLABS ON GRADE AS ANNOTATED ON THE FOUNDATION PLAN DRAWINGS. LOCATE CONTROL JOINTS AT COLUMN CENTER LINES OR AS INDICATED ON THE DRAWINGS. SAW CUT JOINTS TO 1/3 SLAB DEPTH.

REINFORCING STEEL

1. DESIGN, DETAIL, FABRICATE, AND ERECT REINFORCING STEEL ACCORDING TO THE LATEST ACI AND CRSI SPECIFICATION, REFERENCE STANDARDS: *ACI "DETAILING MANUAL" (SP-66); CRSI MANUAL OF STANDARD PRACTICE (MSP-1).*

2. DO NOT WELD REBAR UNLESS OTHERWISE APPROVED BY ENGINEER

3. EPOXY-COATED OR STAINLESS REBAR IS NOT PERMITTED

4. REINFORCING STEEL: ASTM A706 / A615, GRADE 60 (60 ksi), TYPICAL

5. STANDARD CONCRETE COVER REQUIREMENTS, UNLESS OTHERWISE NOTED:
   - EARTH CAST:
     - FOOTINGS: 3"
     - SLABS: 2"
   - FORM CAST:
     - #5 BARS & SMALLER, EXPOSED FACE: 1.5"
     - LARGER THAN #5 BARS, EXPOSED FACE: 2"
     - SLABS & WALLS, INTERIOR FACE: 0.75"
     - BEAMS & COLUMNS, INTERIOR FACE: 1.5"
   - EXPOSED SURFACES
     - COLUMNS (CLEAR TO TIES, HOOPS, OR SPIRALS): 1.5"
     - COLUMNS (CLEAR TO PRIMARY REINF.): 2"
     - COLUMNS & WALLS: 0.75"
     - SLABS, INTERIOR: 0.75"
     - SLABS, EXTERIOR: 1"
   - CONCRETE IN CONTACT WITH OR OVER WATER: 2" MIN.
   - CAISSONS / DRILLED SHAFTS: 4" (TO VERT. REINF.)

6. REINFORCING LAP SPLICES IN CONCRETE SHALL CONFORM WITH ACI 318-19 (22) SECTIONS 25.4.2 AND 25.5. ALL SPLICES SHALL BE CLASS A SPLICES.

7. REINFORCING TENSION DEVELOPMENT LENGTHS SHALL CONFIRM WITH ACI 318-19 (22) SECTION 25.4.2.4a

CONCRETE MASONRY

1. CEMENT FOR MORTAR AND GROUT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150; MORTAR AGGREGATE PER ASTM C144; GROUT PER ASTM C404; HYDRATED LIME PER ASTM C207; QUICK LIME PER ASTM C5; WATER WILL BE CLEAN AND POTABLE.

2. NEW CMU WALL DESIGN TARGET f'_m = 2000 psi

3. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT AND HAVE A MIN. NET AREA COMPRESSIVE STRENGTH f'_{cmu} = 3250 psi IN ACCORDANCE WITH ASTM C90.

4. MORTAR SHALL BE MASONRY-CEMENT, TYPE S, UNIFORMLY MIXED, IN ACCORDANCE WITH ASTM C91. AVERAGE COMPRESSIVE STRENGTH OF MORTAR (28-DAY) IS 1800 psi. THE MAXIMUM AIR CONTENT SHALL BE 19%.

5. GROUT FOR SHOULD CONFORM TO ASTM C476. MINIMUM COMPRESSIVE STRENGTH f'_g = 2000 psi (28-DAY) IS REQUIRED. FINE GROUT OR COARSE GROUT SHALL BE SELECTED BASED ON MINIMUM GROUT SPACING REQUIREMENTS OF ACI 530.1. MAX AGGREGATE SIZE IS 3/8" FOR COARSE GROUT. ADMIXTURES MAY BE ADDED TO ACHIEVE THE DESIRED SLUMP OR WORKABILITY.

6. ALL CELLS CONTAINING REINFORCING OR EMBEDDED ITEMS AND ALL CELLS BELOW GRADE SHALL BE SOLID GROUTED. GROUT LIFTS SHALL BE LESS THAN 5'-4". HIGH LIFT GROUTING w/ CLEANOUTS CAN BE USED UP TO 12'-8"

7. ALL UNITS TO BE CONSTRUCTED UP IN RUNNING BOND. THICKNESS OF BED AND HEAD JOINTS SHALL NOT EXCEED 5/8".

8. ALL WALLS HAVE LADDER MASONRY WALL REINFORCEMENT IN EVERY OTHER HORIZONTAL JOINT (16" C/C) AND IN EACH JOINT (8" C/C) FOR TWO JOINTS ABOVE & BELOW OPENINGS. REINFORCEMENT SHALL BE CONTINUOUS WITH 6" MIN. LAPS. REINFORCEMENT AT OPENINGS SHALL EXTEND 2'-0" BEYOND EACH SIDE OF THE OPENING. CAVITY WALLS SHALL HAVE ONE ROD FOR EACH BED JOINT. MIN. LADDER WIRE SIZE IS W1.7 (9 ga) GALVANIZED.

9. **MASONRY WALLS ON THESE DOCUMENTS ARE NOT DESIGNED AS FREE-END CANTILEVER** OR RETAINING WALL ELEMENTS. WALLS SHALL BE EQUALLY BACKFILLED BOTH SIDES. DO NOT ATTEMPT TO UNEQUALLY BACKFILL WALLS. DO NOT OPERATE HEAVY EQUIPMENT IN THE VICINITY OF THESE SUB-SURFACE MASONRY WALLS. WALLS ABOVE GRADE MUST BE BRACED DURING CONSTRUCTION FOR WIND LOADS WHILE UNDER CONSTRUCTION.

10. MASONRY DEVELOPMENT OR EMBED LENGTHS (inches)

REBAR	CENTERED SPLICE / DEVELOP.	OFFSET DEVELOP.	HOOK EMBED
#3	12"	19"	4.8"
#4	15"	34"	6.5"
#5	23"	45"	8.1"
#6	43"	54"	9.7"
#7	60"	63"	11.3"

STRUCTURAL AND MISCELLANEOUS STEEL

1. FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STANDARDS AND SPECIFICATIONS:

   A. *MANUAL OF STEEL CONSTRUCTION, 15th EDITION*

   B. *CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, LATEST EDITION*

   C. *SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.*

2. STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

BEAM WIDE FLANGE & CHANNELS:	ASTM A992 (Min. F_y = 50 ksi)
CHANNELS & ANGLES, ALT.:	ASTM A572 (Min. F_y = 50 ksi)
HSS RECT. & SQUARE TUBE:	ASTM A500, GRADE C (F_y = 50 ksi)
HSS ROUND:	ASTM A500, GRADE C (F_y = 50 ksi)
PIPE:	ASTM A53, GRADE B (F_y = 35 ksi)
GUSSET PLATES:	ASTM A36 (F_y = 36 ksi)
ALL OTHER STEEL:	ASTM A36 (F_y = 36 ksi)
COMMON BOLTS:	ASTM A325
ANCHOR RODS:	ASTM F1554 (GRADES PER DETAILS) HEAVY HEX HEAD OR DOUBLE-NUT THREADED ROD

ANCHOR ROD WASHER DIAMETERS REQUIRED:
3/4" ROD = 2" ø WASHER / 1/4" THK.
1" ROD = 3" ø WASHER / 3/8" THK.
1.25" ROD = 3" ø WASHER / 1/2" THK.

3. ALL BOLTS SHALL BE SNUG-TIGHT

4. ALL COLUMNS SHALL HAVE A NON-SHRINK GROUT AND 1/4" LEVELING PLATE(s) AND/OR NUTS BETWEEN THE BASE PLATE AND CONCRETE.

STRUCTURAL STEEL WELDING

1. CONFORM TO THE AWS CODES D1.1 AND D1.3, AND USE ONLY CERTIFIED WELDERS. INCREASE WELD SIZE TO AWS MINIMUM SIZES, BASED ON PLATE THICKNESS. USE DRY E70xx ELECTRODES. CONFORM TO AWS D.18 FOR SEISMIC APPLICATIONS.

2. ALL WELDING SHALL MEET APPLICABLE PRE-HEAT REQUIREMENTS

3. ANY SPECIFIED FIELD CJP WELDS FOR MEMBER SPLICES SHALL BE TESTED w/ NDT.

THE COLLABORATIVE

ANDREW BROCK ENGINEER
structural & civil engineering

STATE OF MICHIGAN
ANDREW M. BROCK
ENGINEER
No. 6201069379
LICENSED PROFESSIONAL ENGINEER
11/21/2025

KEY PLAN
N.T.S.

PROJECT TITLE

Oscoda Area Schools

OAS Misc. Renovations-Richardson

E River Rd,
Au Sable Township, MI 48750

01 1.21.2026	ADDEDUM 01
11.21.2025	CAD DETAILS

TC JOB NO. 107348

OWNER JOB NO.

AMB ENG. JOB NO. 20250131

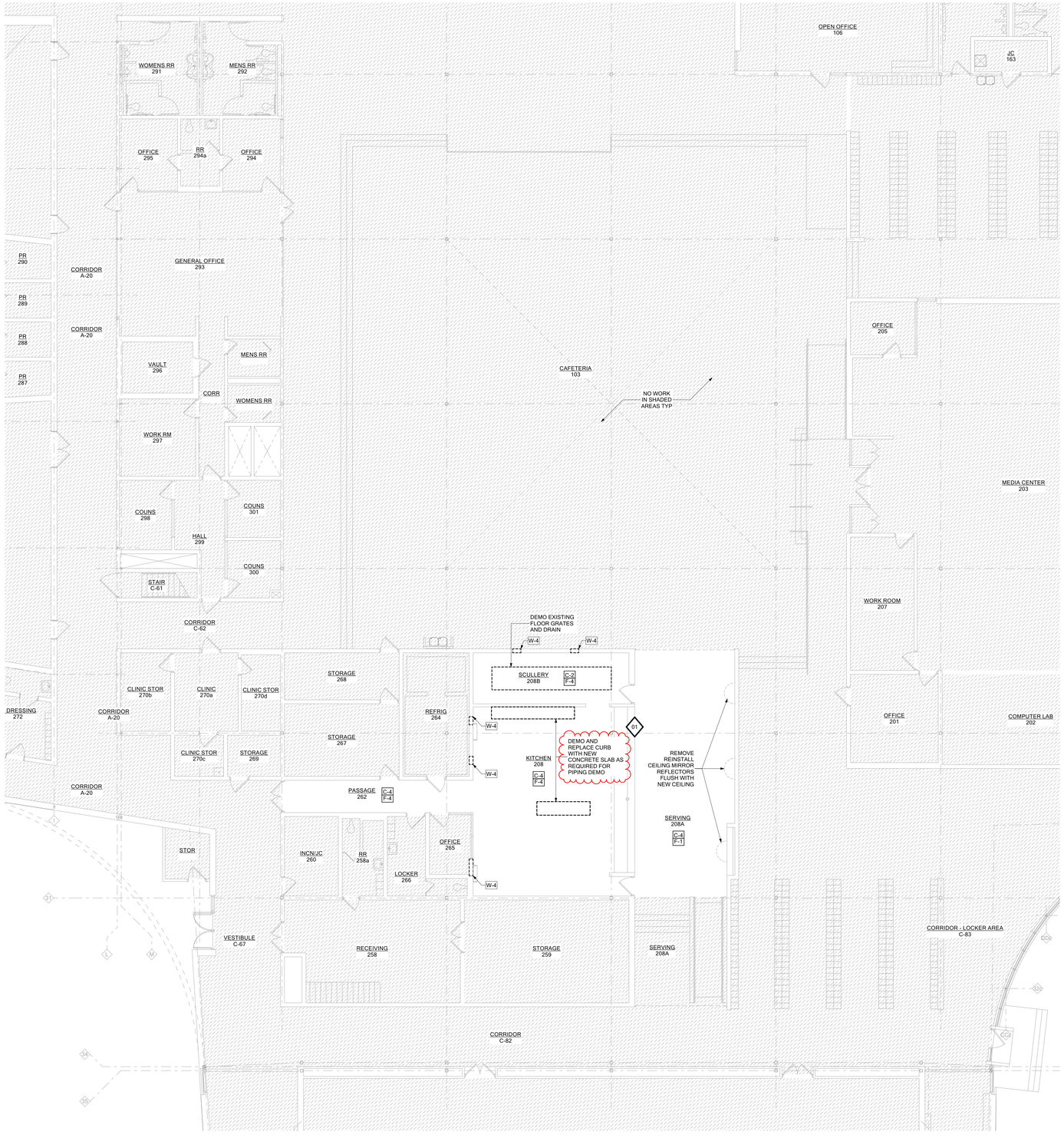
SHEET TITLE

STRUCTURAL DETAILS

SHEET NO.

S5.01

PLOTTED: 11/6/2025 3:06:42 PM



A2 FIRST FLOOR DEMOLITION PLAN - UNIT D

SCALE: 1/8" = 1'-0"

DEMOLITION LEGEND

REFER TO THE FOLLOWING TAG FOR GENERAL CEILING AND FLOORING DEMOLITION INFORMATION FOR EACH ROOM UNLESS OTHERWISE NOTED.

C-1 ← CEILING DEMOLITION KEYNOTE

F-1 ← FLOORING DEMOLITION KEYNOTE

DEMOLITION GENERAL NOTES

1. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DEMOLITION SCOPE RELATED TO EXISTING MEP SYSTEMS.
2. FOR ALL REMOVED FINISHES, FURNISHINGS, CASEWORK, AND BUILDING ELEMENTS, REMOVE ALL ASSOCIATED MOUNTING MATERIALS, ADHESIVES, HARDWARE, AND RELATED ELEMENTS.
3. PATCH ALL DISTURBED SUBSTRATES AT LOCATIONS OF REMOVED ELEMENTS AS REQUIRED TO CREATE SMOOTH SURFACES FOR NEW CONSTRUCTION.
4. AT INTERIOR WALLS WHERE DOORS AND WINDOWS HAVE BEEN REMOVED, PATCH OPENINGS TO MATCH EXISTING CONSTRUCTION AS REQUIRED FOR NEW WORK.
5. AT ALL REMOVED DOORS, SALVAGE THE FOLLOWING HARDWARE AND RETURN TO OWNER (CONTRACTOR TO DISPOSE OF ALL OTHER HARDWARE):
   A. LOCKSETS
   B. PANIC HARDWARE
6. REFER TO FLOOR PLAN FOR COORDINATION REQUIREMENTS FOR NEW CONSTRUCTION

DEMOLITION KEYNOTES

(NOTE: NOT ALL NUMBERS ARE USED)

C: CEILINGS

C-0A: NO CEILING DEMOLITION IN THIS AREA, EXPOSED STRUCTURE ABOVE
C-0B: NO CEILING DEMOLITION IN THIS AREA, EXISTING CEILING TO REMAIN
C-1: REMOVE ACOUSTICAL PANEL CEILING SYSTEM AND METAL SUSPENSION SYSTEM
C-2: REMOVE GYPSUM BOARD CEILING SYSTEM
C-3: REMOVE DIRECT-MOUNT ACOUSTICAL CEILING TILES, SUBSTRATE, AND SUSPENSION SYSTEM
C-4: EXISTING ASBESTOS-CONTAINING CEILING MATERIALS TO BE REMOVED UNDER SEPERATE CONTRACT, REMOVE MISCELLANEOUS NON HAZARDOUS CEILING MATERIALS THAT REMAIN.

CA: CASEWORK
CA-0: EXISTING CASEWORK AND/OR SHELVING TO REMAIN
CA-1: REMOVE BUILT-IN CASEWORK AND/OR SHELVING

D: DOORS:
D-1: REMOVE SINGLE DOOR
D-2: REMOVE DOUBLE DOORS
D-3: REMOVE OVERHEAD DOOR AND TRACK
D-5: REMOVE ACCESS PANEL/ACCESS DOOR AND FRAME
D-6: REMOVE COILING DOOR/SHUTTER, TRACK AND MECHANISM
D-7: REMOVE ALUMINUM ENTRANCE DOOR(S) AND ADJACENT STOREFRONT SYSTEM

DF: DOOR FRAMES
DF-1: REMOVE HOLLOW METAL DOOR FRAME
DF-2: REMOVE WOOD DOOR FRAME
DF-3: REMOVE ALUMINUM DOOR FRAME

EQ: EQUIPMENT
EQ-1: REMOVE EXISTING LOCKERS
EQ-2: REMOVE CHALKBOARD/MARKERBOARD AND RETURN TO OWNER
EQ-3: REMOVE TACKBOARDS AND RETURN TO OWNER
EQ-4: REMOVE GRAB BARS AND RETURN TO OWNER

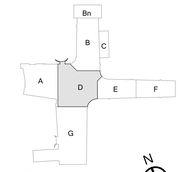
F: FLOORING
F-0: NO FLOORING DEMOLITION IN THIS AREA - EXISTING EXPOSED CONCRETE FLOOR TO REMAIN
F-1: NO FLOORING DEMOLITION IN THIS AREA - EXISTING FLOOR FINISH TO REMAIN
F-2: REMOVE RESILIENT FLOORING
F-3: REMOVE CARPET AND ACCESSORIES
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FD: FLOOR DRAINS
FD-1: PLUG FLOOR DRAIN BELOW FLOOR LINE. SEE PLUMBING DRAWINGS FOR LINE TERMINATION REQUIREMENTS. FILL DRAIN WITH CONCRETE. APPLY LEVELING COMPOUND TO AREA AROUND DRAIN TO MAKE FLOOR LEVEL WITH ADJACENT FLOOR ELEVATION.
FD-2: REMOVE TRENCH FLOOR DRAIN GRATING AND PLUG EXISTING FLOOR DRAIN BELOW FLOOR LINE. SEE PLUMBING DRAWINGS FOR LINE TERMINATION REQUIREMENTS. FILL DRAIN WITH CONCRETE. APPLY LEVELING COMPOUND TO AREA AROUND DRAIN TO MAKE FLOOR LEVEL WITH ADJACENT FLOOR ELEVATION.

T: TOILET FIXTURES:
T-1: REMOVE SINK AND ASSOCIATED PLUMBING LINES
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T-3: REMOVE TOILET PARTITIONS AND DOORS
T-4 REMOVE SHOWER FIXTURE AND ALL ASSOCIATED PLUMBING LINES

W: WALLS AND PARTITONS:
W-1: REMOVE CMU WALL
W-2: REMOVE STUD AND GYPSUM BOARD PARTITION
W-3: REMOVE DECORATIVE WALL FINISH (PANELING, WALLCOVERING, TILE, ETC.), AND ASSOCIATED ADHESIVE, FURRING, MORTAR, ANCHORS, ETC. DOWN TO SUBSTRATE
W-4: REMOVE STRUCTURAL GLAZED TILE AS REQUIRED FOR PLUMBING DEMO TO THE NEAREST FULL TILE

THE COLLABORATIVE +ACOCK



KEY PLAN

STATE OF MICHIGAN
Brandon M. Andrzejczak
License No. 1301066065
LICENSED ARCHITECT

01	01.21.2026	ADDENDUM 01
	11.21.2025	BID/PERMIT
	09.12.2025	DESIGN DEVELOPMENT
	07.18.2025	SD ISSUANCE

TC JOB NO. 107348

OWNER JOB NO. #Client Custom

PROJECT TITLE

Oscoda Area Schools

Oscoda High School Misc Renovation

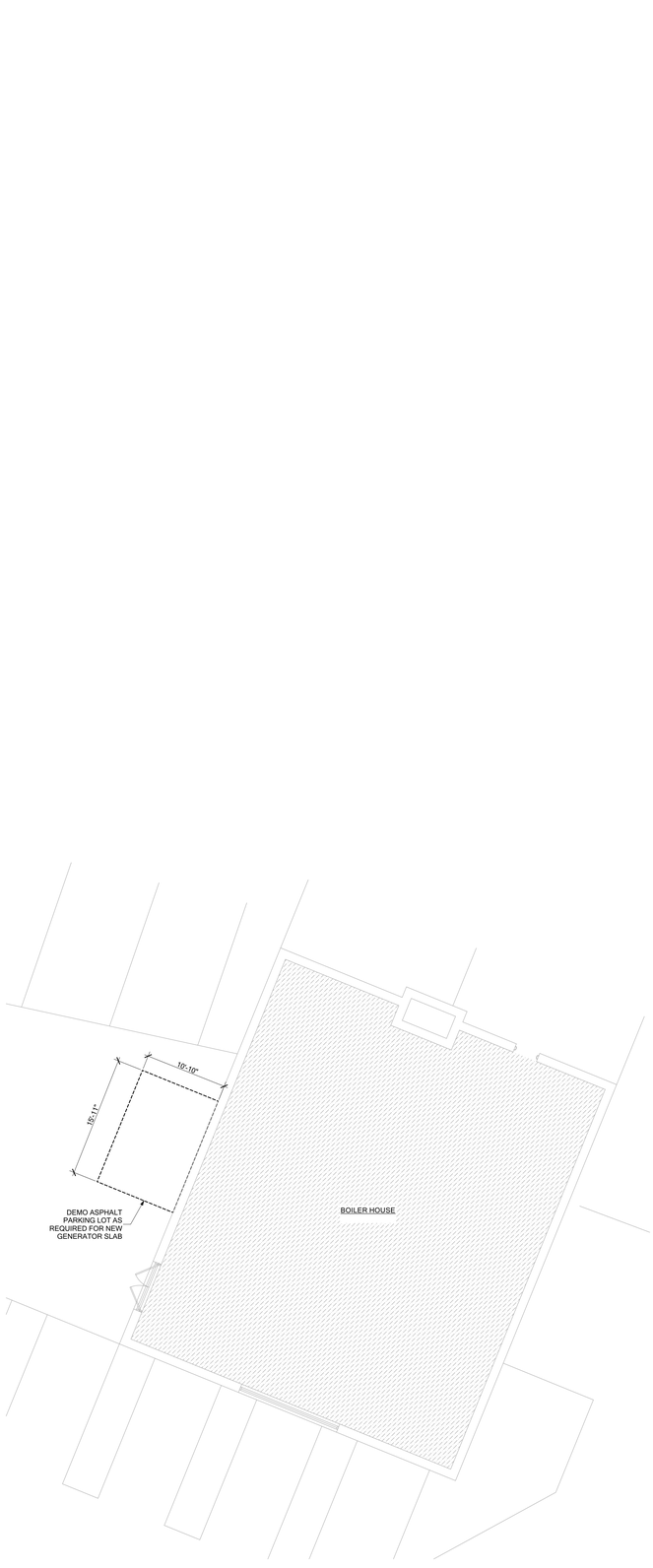
3550 E River Rd,
Oscoda Township,, MI 48750

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - UNIT D

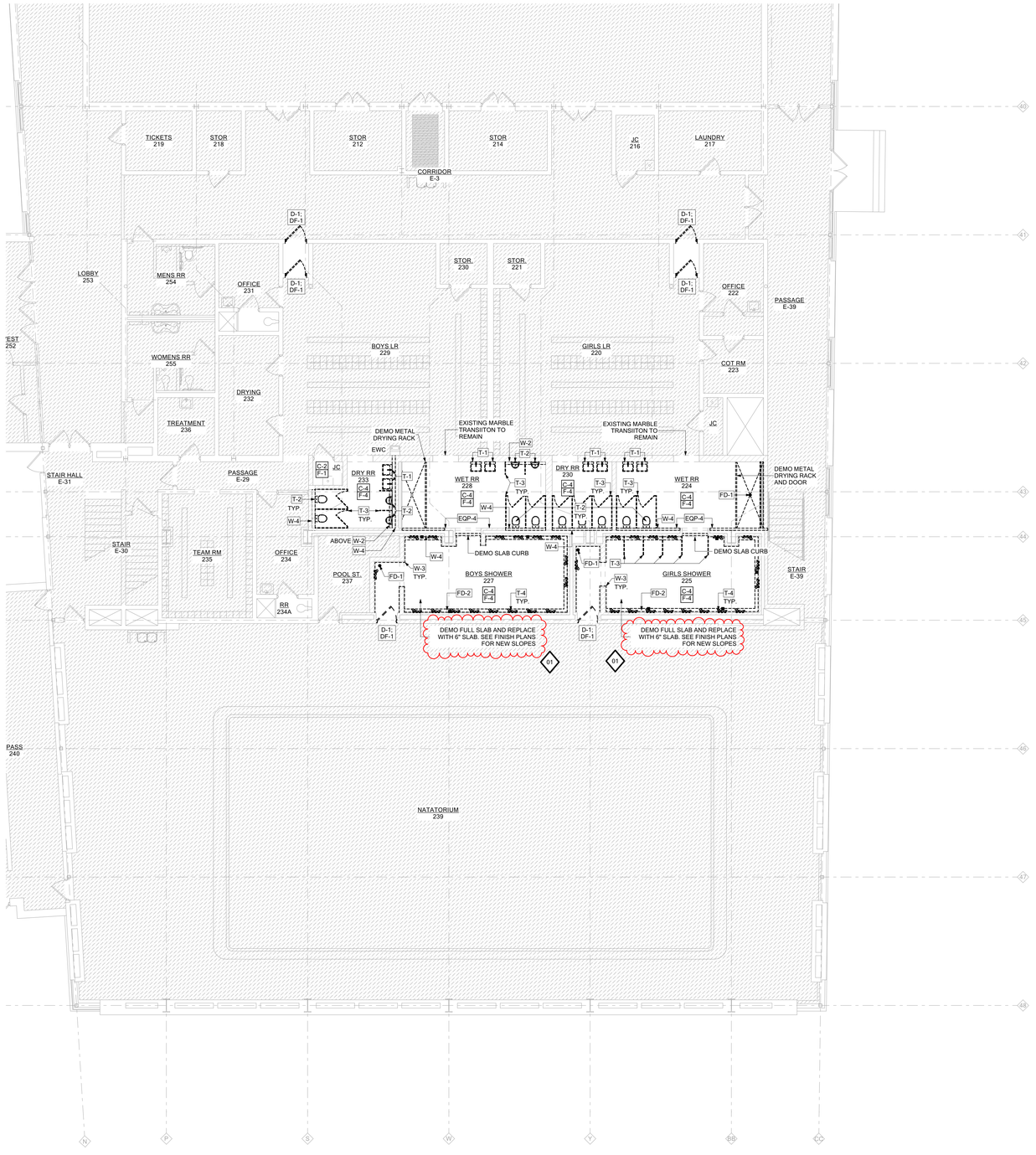
SHEET NO.

D1.01



A7 FIRST FLOOR PLAN - UNIT G

SCALE: 1/8" = 1'-0"



A2 FIRST FLOOR DEMOLITION PLAN - UNIT G

SCALE: 1/8" = 1'-0"

DEMOLITION LEGEND

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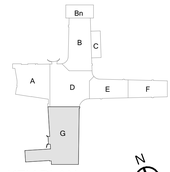
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THE COLLABORATIVE +ACOCK



KEY PLAN

STATE OF MICHIGAN
Brandon M. Andrzejczak
License No. 4301066085
LICENSED ARCHITECT

PROJECT TITLE

Oscoda Area Schools

Oscoda High School Misc Renovation

3550 E River Rd,
Oscoda Township,, MI 48750

01	01.21.2026	ADDENDUM 01
	11.21.2025	BID/PERMIT
	09.12.2025	DESIGN DEVELOPMENT
	07.18.2025	SD ISSUANCE

TC JOB NO. 107348

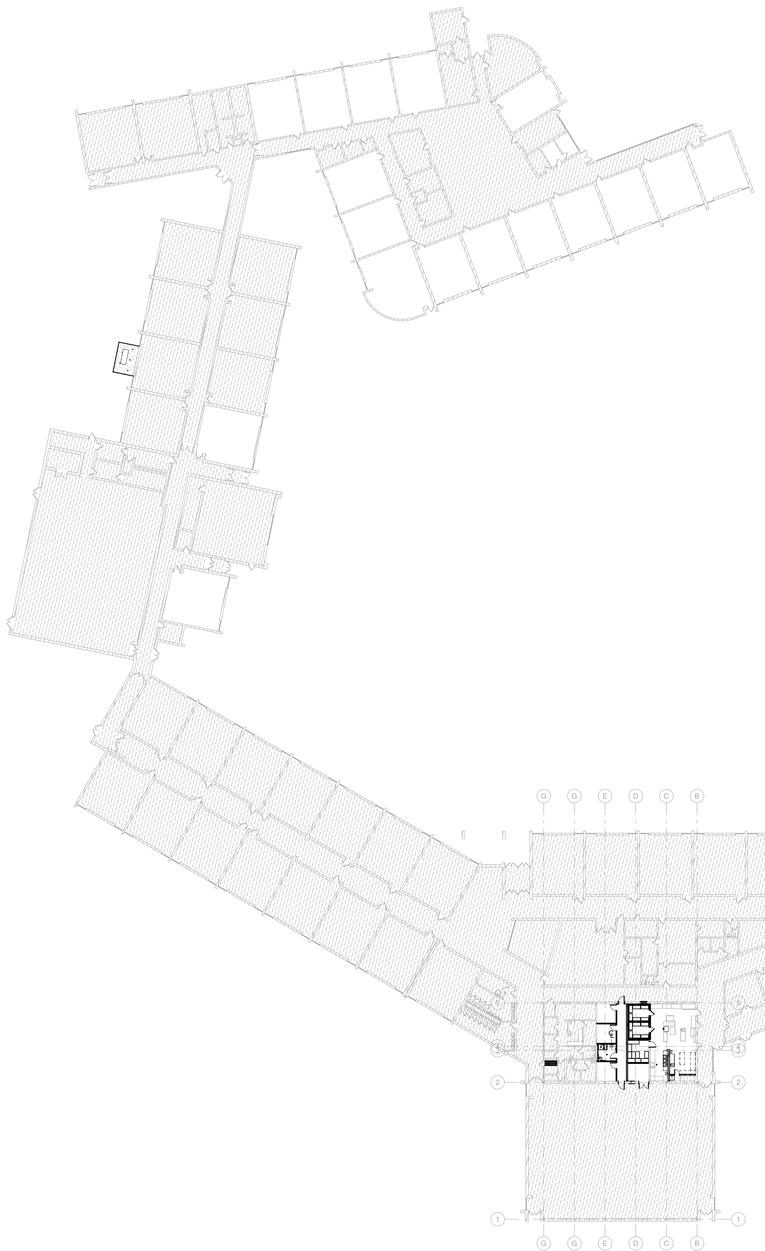
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SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - UNIT G

SHEET NO.

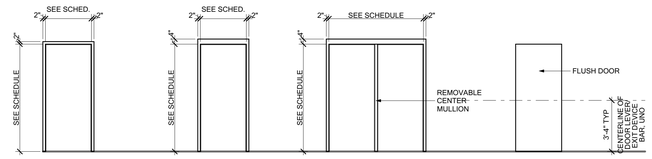
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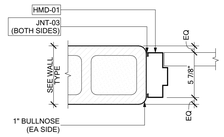
A3 FIRST FLOOR
SCALE: 1/32" = 1'-0"

01

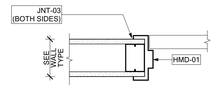
DOOR SCHEDULE												
No.	SIZE	EL	MATL	FIN	FRAME			H	J	HDW SET	FIRE RATING	REMARKS
					EL	MATL	FIN					
051	3'-0"x7'-0"	D-2	SCWD	STAIN	F-1	HM	PT	H2	J2	4	-	
052	3'-0"x7'-0"	D-2	SCWD	STAIN	F-1	HM	PT	H2	J2	4	-	
053	3'-0"x7'-0"	D-1	SCWD	STAIN	F-1	HM	PT	H2	J2	6	-	
054	3'-0"x7'-0"	D-2	SCWD	STAIN	F-1	HM	PT	H2	J2	4	-	
56A	2'-6"x7'-0"	-	HM	PT	F-2	HM	PT	H1	J1	2	-	
57	5'-0"x7'-0"	D-1	SCWD	STAIN	F-3	HM	PT	H1	J1	1	1.5 hours	
057A	3'-0"x7'-0"	D-1	SCWD	STAIN	F-2	HM	PT	H1	J1	5	20 minutes	
057B	3'-0"x7'-0"	D-1	SCWD	STAIN	F-2	HM	PT	H1	J1	5	1.5 hours	
58	3'-0"x7'-0"	D-1	HM	PT	F-2	HM	PT	H1	J1	3	20 minutes	PT-2 OSCODA BLUE, BOTH SIDES



F-1 F-2 F-3 D-1



H-1/J-1



H-2/J-2

PLAN GENERAL NOTES:

1. COORDINATE SIZE AND LOCATION OF ALL HOUSEKEEPING PADS AND/OR EQUIPMENT SUPPORTS WITH APPROPRIATE EQUIPMENT MANUFACTURER.
2. COORDINATE SIZES AND LOCATIONS OF ALL MISCELLANEOUS ACCESS PANELS REQUIRED. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE TO BE PROVIDED BY TRADES REQUIRING THEM. ALL LOCATIONS MUST BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
3. FLOOR PLANS ARE DIMENSIONED TO ACTUAL WALL THICKNESS UNLESS OTHERWISE NOTED.
4. DIMENSIONS FOLLOWED BY + MUST BE FIELD REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ARCHITECT IF DISCREPANCIES ARISE BEFORE PROCEEDING WITH THE WORK.
5. PROVIDE INTERIOR GYPSUM BOARD CONTROL JOINTS @ 25' O.C. AT LOCATIONS SHOWN ON PLANS AND/OR INTERIOR ELEVATIONS OR AS DIRECTED BY ARCHITECT.
6. VERIFY QUANTITY, SIZES, AND LOCATIONS OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADES. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.
7. REFER TO LS & A0 SERIES DRAWINGS FOR LOCATIONS OF REQUIRED FIRE RESISTANCE RATINGS, UL DESCRIPTIONS, AND JOINT DETAILS.
8. REFER TO FINISH PLANS FOR FLOOR FINISHES, ROOM FINISHES, AND FINISH LAYOUTS.
9. SEE REFLECTED CEILING PLANS FOR WINDOW SHADE LOCATIONS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

KEYNOTES:

XX-#

(NOTE: NOT ALL NUMBERS ARE USED)

BASE: WALL BASE (SEE FINISH PLANS/LEGEND)

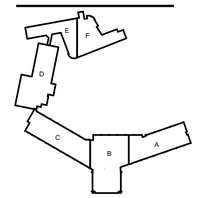
CLG: CEILINGS (SEE REFLECTED CEILING PLANS)

CSW: CASEWORK
CSW-01 EXISTING CLASSROOM CASEWORK

EQP: EQUIPMENT
EQP-01 NEW UNIT VENT, SEE MECH.

THE COLLABORATIVE +ACOCK

STATE OF MICHIGAN
Brandon M. Andrzejczak
License No. 4301066085
LICENSED ARCHITECT



KEY PLAN
N.T.S.

PROJECT TITLE
Oscoda Area Schools

OAS Misc. Renovations - Richardson

E River Rd
Au Sable Township, MI 48750

01	01.21.2026	ADDENDUM 01
	11.21.2025	BID/PERMIT
	09.12.2025	DESIGN DEVELOPMENT
	07.18.2025	SCHEMATIC DESIGN

TC JOB NO. 107348

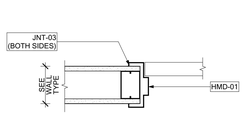
OWNER JOB NO. #Client Custom

SHEET TITLE
OVERALL FLOOR PLAN & DOOR DETAILS

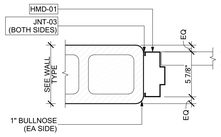
SHEET NO.
A1.00

TC DOOR SCHEDULE PH 2												
No.	SIZE	EL	MATL	FIN	FRAME			H	J	HDW SET	FIRE RATING	REMARKS
					EL	MATL	FIN					
220-1	3'-0"×7'-0"	D-1	SCWD	STAIN	F-1	HM	PT	H2	J2	4	-	DOUBLE ACTION DOOR, PT2 OSCODA BLUE
220-2	3'-0"×7'-0"	D-1	SCWD	STAIN	F-1	HM	PT	H2	J2	1	20 minutes	ADO
224A	3'-0"×7'-0"	D-1	HM	PT	F-2	HM	PT	H1	J1	2	-	
225	3'-0"×7'-0"	D-1	HM	PT	F-1	HM	PT	H2	J2	3	20 minutes	D-20, MATCH EXISTING PAINT
227	3'-0"×7'-0"	D-1	HM	PT	F-1	HM	PT	H2	J2	3	20 minutes	D-20, MATCH EXISTING PAINT
229-1	3'-0"×7'-0"	D-1	SCWD	STAIN	F-1	HM	PT	H2	J2	4	-	DOUBLE ACTION DOOR, PT2 OSCODA BLUE
229-2	3'-0"×7'-0"	D-1	SCWD	STAIN	F-1	HM	PT	H2	J2	1	20 minutes	ADO

01



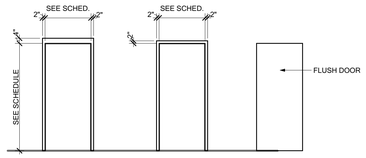
J-1/H-1



J-2/H-2

F7 DOOR/FRAME JAMBS

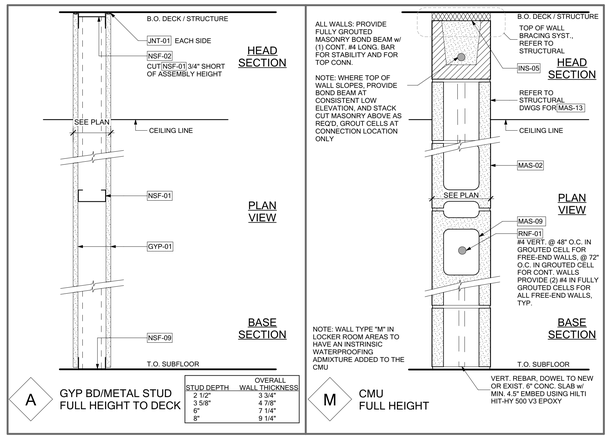
SCALE: 1 1/2"= 1'-0"



F-1 F-2 D-1.

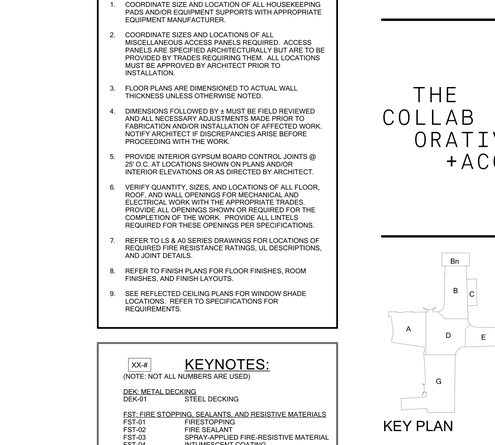
E8 DOOR/FRAME ELEVATIONS

SCALE: 1/4" = 1'-0"

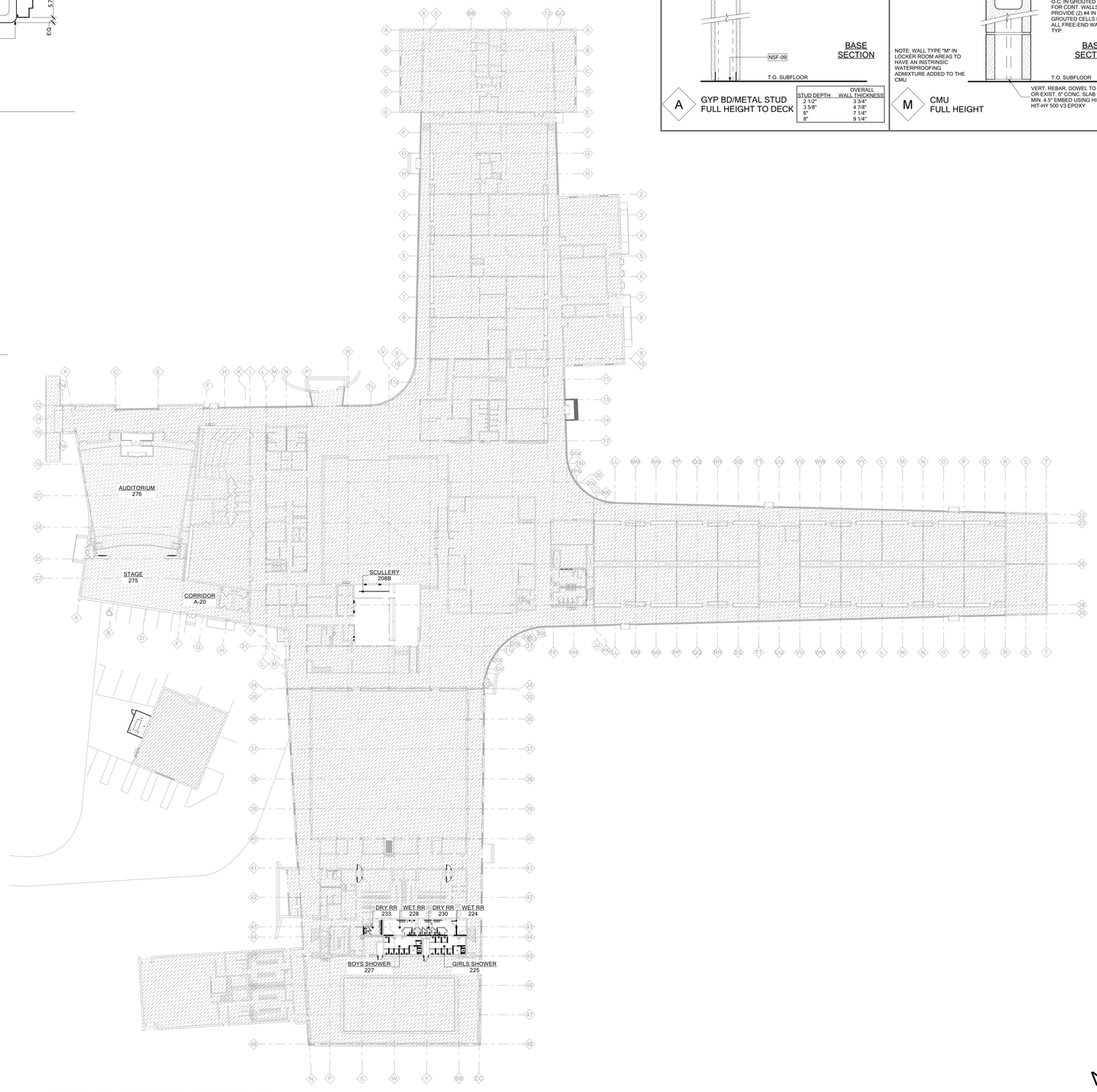


A GYP BD/METAL STUD FULL HEIGHT TO DECK

STUD DEPTH	OVERALL WALL THICKNESS
2 1/2"	3 3/4"
3 5/8"	4 7/8"
6"	7 1/4"
8"	9 1/4"



M CMU FULL HEIGHT



A2 OVERALL FIRST FLOOR PLAN

SCALE: 1/32" = 1'-0"

PLAN GENERAL NOTES:

1. COORDINATE SIZE AND LOCATION OF ALL HOUSEKEEPING PADS AND/OR EQUIPMENT SUPPORTS WITH APPROPRIATE EQUIPMENT MANUFACTURER.
2. COORDINATE SIZES AND LOCATIONS OF ALL MISCELLANEOUS ACCESS PANELS REQUIRED. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE TO BE PROVIDED BY TRADES REQUIRING THEM. ALL LOCATIONS MUST BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
3. FLOOR PLANS ARE DIMENSIONED TO ACTUAL WALL THICKNESS UNLESS OTHERWISE NOTED.
4. DIMENSIONS FOLLOWED BY ± MUST BE FIELD REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ARCHITECT IF DISCREPANCIES ARISE BEFORE PROCEEDING WITH THE WORK.
5. PROVIDE INTERIOR GYPSUM BOARD CONTROL JOINTS @ 25' O.C. AT LOCATIONS SHOWN ON PLANS AND/OR INTERIOR ELEVATIONS OR AS DIRECTED BY ARCHITECT.
6. VERIFY QUANTITY, SIZES, AND LOCATIONS OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADES. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.
7. REFER TO LS & A0 SERIES DRAWINGS FOR LOCATIONS OF REQUIRED FIRE RESISTANCE RATINGS, UL DESCRIPTIONS, AND JOINT DETAILS.
8. REFER TO FINISH PLANS FOR FLOOR FINISHES, ROOM FINISHES, AND FINISH LAYOUTS.
9. SEE REFLECTED CEILING PLANS FOR WINDOW SHADE LOCATIONS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

KEYNOTES:

XX-# (NOTE: NOT ALL NUMBERS ARE USED)

DEK: METAL DECKING
DEK-01 STEEL DECKING

FST: FIRE STOPPING, SEALANTS, AND RESISTIVE MATERIALS
FST-01 FIRESTOPPING
FST-02 FIRE SEALANT
FST-03 SPRAY-APPLIED FIRE-RESISTIVE MATERIAL
FST-04 INTUMESCENT COATING

GYP: GYPSUM BOARD ASSEMBLIES
GYP-01 GYPSUM BOARD (5/8" UNO)
GYP-02 GLASS MAT-FACED GYPSUM BOARD (5/8" UNO)
GYP-03 CONTROL JOINT
GYP-04 CORNER BEAD
GYP-05 J-BEAD
GYP-06 F-REVEAL
GYP-07 U-REVEAL
GYP-08 Z-REVEAL
GYP-09 CEMENT BACKER BOARD (5/8" UNO)

INS: INSULATION
INS-01 RIGID INSULATION BOARD
INS-02 SPRAYED-FOAM INSULATION
INS-04 ACOUSTICAL BATT INSULATION
INS-05 MINERAL WOOL FIRESAFING INSULATION

JNT: JOINT SEALANTS
JNT-01 JOINT SEALANT
JNT-02 BACKER ROD
JNT-03 ACOUSTICAL SEALANT

MAS: MASONRY
MAS-02 CONCRETE MASONRY UNIT
MAS-09 GROUT
MAS-12 SOLID CONCRETE MASONRY UNIT
MAS-13 CMU BOND BEAM

NSF: NON-STRUCTURAL METAL FRAMING
NSF-01 NON-STRUCTURAL METAL FRAMING (3 5/8" UNO)
NSF-02 NON-STRUCTURAL DEFLECTION TRACK
NSF-03 HAT CHANNEL FURRING (1 1/2" UNO)
NSF-04 RESILIENT CHANNEL FURRING
NSF-05 Z-FURRING
NSF-06 NON-STRUCTURAL CLIP ANGLE
NSF-07 SHAFT WALL FRAMING
NSF-08 J-TRACK
NSF-09 FRAMING TRACK

RNF: REINFORCING STEEL
RNF-01 REINFORCING BAR
RNF-02 WELDED WIRE MESH

SSU: SOLID SURFACE
SSU-01 SOLID SURFACE MATERIAL, SEE FINISH SCHEDULE

INTERIOR WOOD (IWD):
IWD-01 INTERIOR WOOD CAP, SEE FINISH SCHEDULE

WDF: ROUGH WOOD FRAMING (FRT UNO)
WDF-01 WOOD BLOCKING

WALL TYPE GENERAL NOTES:

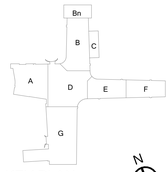
GENERAL
1. PROVIDE INTERIOR GYPSUM BOARD CONTROL JOINTS AT 25' O.C. MAXIMUM, AT LOCATIONS SHOWN ON DRAWINGS, AND AS OTHERWISE DIRECTED BY ARCHITECT.

FRAMING
2. ALL NON-STRUCTURAL METAL FRAMING, INCLUDING STUDS AND FURRING, IS TO BE INSTALLED AT 16" O.C. UNLESS OTHERWISE NOTED. SHAFT WALL (CH) FRAMING IS TO BE INSTALLED AT 24" O.C.
3. REFER TO SPECIFICATIONS FOR MINIMUM NON-STRUCTURAL FRAMING BASE METAL THICKNESSES AND STUD REQUIREMENTS FOR LOCATIONS WITH TILE FINISHES AND WALL-MOUNTED CASEWORK AND EQUIPMENT.

FINISHING
4. REFER TO FINISH PLANS FOR FLOOR FINISHES, WALL FINISHES, AND FINISH LAYOUTS.
5. REFER TO FINISH PLANS AND SPECIFICATIONS FOR LOCATIONS WHERE LEVEL 5 GYPSUM BOARD FINISHING IS REQUIRED.
6. PROVIDE TILE BACKER BOARD PER SPECIFICATIONS IN LIEU OF GYPSUM BOARD AT LOCATIONS TO RECEIVE TILE WALL FINISH. IF TILE IS TO BE INSTALLED AT FIRE-RESISTANCE RATED WALLS, BACKER BOARD MUST BE AN APPROVED PRODUCT LISTED IN THE IDENTIFIED UL ASSEMBLY.
7. REFER TO PLANS FOR LOCATIONS OF ABUSE- / IMPACT-RESISTANT GYPSUM BOARD TO BE USED IN LIEU OF GYPSUM BOARD SHOWN ON ASSEMBLIES ON THIS SHEET. IF SUBSTITUTION OCCURS AT FIRE-RESISTANCE RATED WALLS, ABUST- / IMPACT- RESISTANT GYPSUM BOARD MUST BE AN APPROVED PRODUCT LISTED IN THE IDENTIFIED UL ASSEMBLY.

FIRE-RESISTANCE RATED ASSEMBLIES
8. ALL UL LISTED ASSEMBLIES ON THIS SHEET ARE BASIS OF DESIGN ASSEMBLIES. ALL MATERIALS INSTALLED IN THESE ASSEMBLIES MUST MATCH THE PRODUCTS LISTED IN THE UL DESCRIPTIONS. ANY DEVIATIONS FROM THE MATERIALS LISTED IN THE BASIS OF DESIGN ASSEMBLIES MUST BE SUBMITTED WITH AN EQUIVALENT TESTED ASSEMBLY NUMBER AND APPROVED BY THE ARCHITECT PRIOR TO CONSTRUCTION.
9. AT ALL FIRE-RESISTANCE RATED ASSEMBLIES, A UL-LISTED FIRE-RESISTIVE HEAD JOINT DETAIL MUST BE SELECTED BASED ON CONSTRUCTION OF WALL AND OVERHEAD STRUCTURE. DETAIL AND LISTING MUST BE SUBMITTED TO AND APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

THE COLLABORATIVE +ACOCK



KEY PLAN



PROJECT TITLE

Oscoda Area Schools

Oscoda High School Misc Renovation

3550 E River Rd,
Oscoda Township,, MI 48750

01	01.21.2026	ADDENDUM 01
	11.21.2025	BID/PERMIT
	09.12.2025	DESIGN DEVELOPMENT
	07.18.2025	SD ISSUANCE

TC JOB NO. 107348

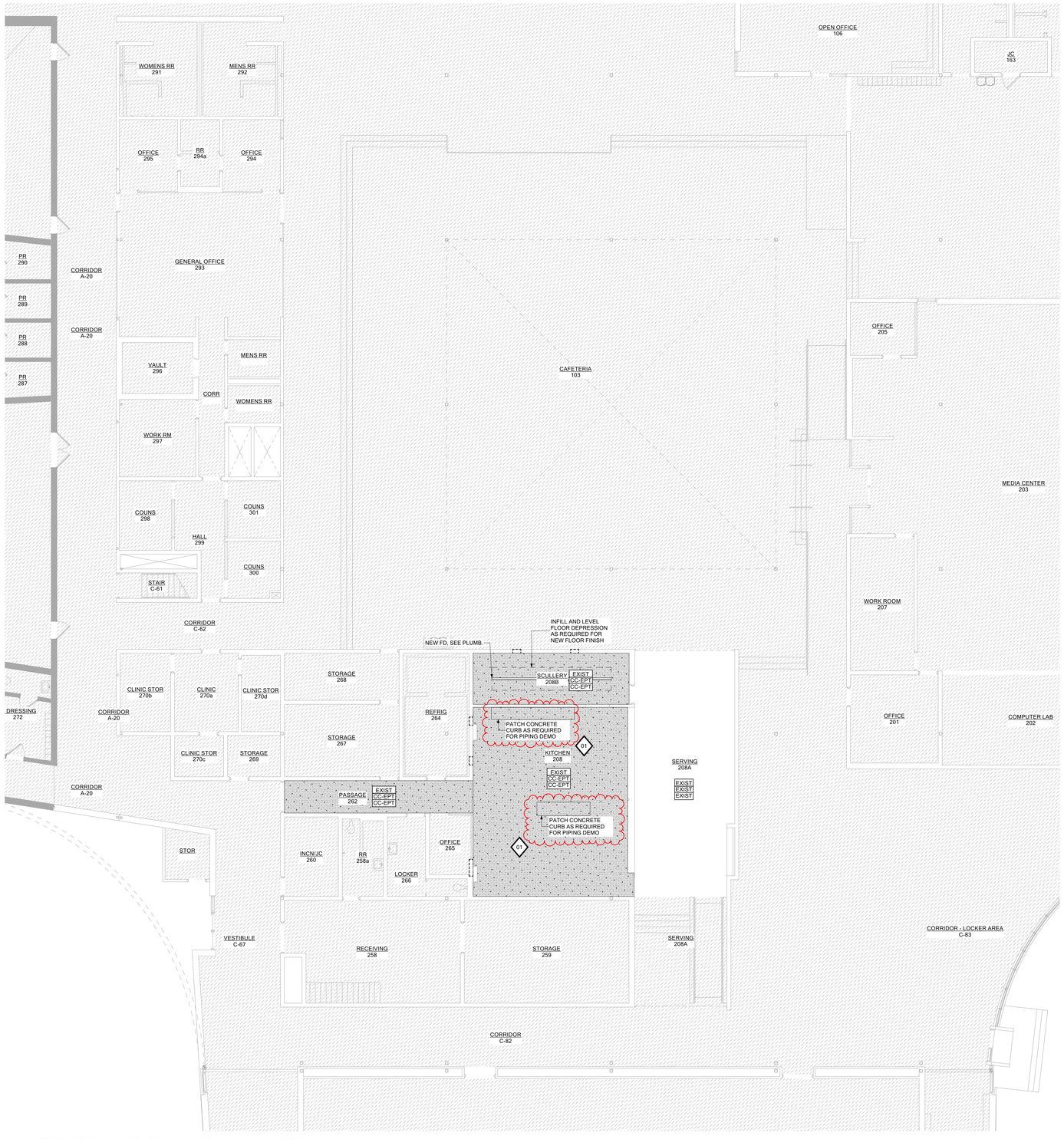
OWNER JOB NO. #Client Custom

SHEET TITLE

OVERALL FLOOR PLAN & DOOR SCHEDULE

SHEET NO.

A1.00



A2 FIRST FLOOR FINISH PLAN - UNIT D

SCALE: 1/8" = 1'-0"

FINISHES LEGEND

REFER TO THE FOLLOWING TAG FOR GENERAL FLOOR FINISH, WALL BASE, AND WALL FINISH INFORMATION FOR EACH ROOM UNLESS OTHERWISE NOTED.

PT1	← WALL FINISH KEYNOTE
RWB1	← WALL BASE KEYNOTE
CC-S	← FLOOR FINISH KEYNOTE

FINISHES GENERAL NOTES

1. REFER TO REFLECTED CEILING PLANS FOR INFORMATION ON CEILING FINISHES AND WINDOW TREATMENTS.
2. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON MATERIALS AND CONSTRUCTION.
3. GYPSUM BOARD THAT RECEIVES EPOXY PAINT(S) EPTX AND PAINT(S) PTX ARE TO RECEIVE A LEVEL 5 GYPSUM BOARD FINISH. SURFACES TO BE SKIM COATED AND SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. REFER TO GYPSUM BOARD SPECIFICATIONS FOR ADDITIONAL INFORMATION, INCLUDING DETAILED LEVEL 5 FINISH REQUIREMENTS.
4. CONCRETE SLAB SAWCUT LOCATIONS MUST BE TRANSFERED UP TO CERAMIC FLOOR TILE AS EXPANSION JOINTS. ADDITIONAL JOINTS MAY ALSO NEED TO BE ADDED WHERE COLD JOINTS BETWEEN SLAB POURS OCCUR. IF ADDITIONAL JOINTS ARE REQUIRED, NOTIFY ARCHITECT AS ADDITIONAL EXPANSION JOINTS IN THE TILE PATTERN WILL NEED TO BE ADDED.
5. IF A MORTAR BED IS USED IN THE INSTALLATION OF CERAMIC FLOOR TILE, IT IS THE RESPONSIBILITY OF THE TILE CONTRACTOR TO ADJUST ALL FLOOR TRANSITION STRIPS WITH ADJOINING FLOOR MATERIALS DUE TO THE ADDED THICKNESS OF THE MORTAR BED. FLOOR SLABS MUST ALSO BE FEATHERED WHERE CERAMIC TILE ADJOINS AN EXPOSED CONCRETE FLOOR TO PROVIDE A THRESHOLD OF NO MORE THAN 1/2". IN AREAS WHERE FLOOR TILE SURROUNDS ARE SHOWN AROUND WALK OFF CARPETING, LEVELING COMPOUND MUST BE ADDED TO RAISE THE WALK OFF CARPET TO BE LEVEL WITH THE FLOOR TILE. CONTRACTOR TO FIELD VERIFY ALL DIFFERING CONDITIONS.
6. DOOR FRAME PAINT COLOR TO MATCH ADJACENT WALL COLOR UNO
7. ALL FLOORING TRANSITIONS MUST BE ACCESSIBLE, NOT TO EXCEED 1/2" RISE.

FINISHES SYMBOL LEGEND

NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON DRAWINGS.

- CORNER GUARD (CG) / WALL END CORNER GUARD (EG)
- FLOOR DRAIN (FD)
- 1 — TRANSITION TYPE TAG (SEE TRANSITION TYPE DETAILS)
- PTX — ACCENT FINISH AT WALLS INDICATED

FLOORING MATERIAL LEGEND

- CARPET
- WALK OFF CARPET
- CERAMIC & QUARRY TILE
- VINYL COMPOSITE TILE (VCT)
- LUXURY VINYL TILE (LVT)
- RUBBER/SHEET GOOD
- CONCRETE - SEALED
- CONCRETE - GROUND/POLISHED
- CONCRETE - EPOXY PAINT

FINISH SCHEDULE

ACOUSTICAL PANEL CEILINGS (APC):

SEE REFLECTED CEILING PLANS.

ACOUSTIC WALL PANELS (AWP):

AWP1	MFR., LINE, COLOR

CONCRETE FLOORING (CC):

CC-EPT	SHERWIN WILLIAMS RESUFLOR™ DECO QUARTZ DB23, COLOR: SEASCAPE
CC-U	SHERWIN WILLIAMS POLY-CRETE™ SL WITH A PIGMENTED ACCELERA 4850 TOP COAT. COLOR: GRAY SQUIRREL
CC-S	CONCRETE - SEALED

CORNER GUARD / END CORNER GUARD (CG / EG):

CG1	MATERIAL, MFR., INSTALL (APPLIED, RECESSED, ETC), SIZE, COLOR
EG1	MATCH CG1

CARPET (CPT):

CPT1	OPOI

CERAMIC WALL TILE (CTW):

CTW1	FLORIDA TILE, SONGBIRD, 3"X12", COLOR: QUILL GREY, INSTALL: VERTICAL STACK BOND. GROUT : LATICRETE, COLOR: 89 SMOKE GREY

CERAMIC FLOOR TILE (CTF):

CTF1	MFR., LINE, COLOR, PATTERN, GROUT COLOR

CERAMIC TILE TRIM (CTT):

CTT1 CTT2	SCHLUTER, DILEX-AHKA SCHLUTER, RONDEC

FIBER REINFORCED PLASTIC (FRP):

FRP1	CRANE COMPOSITES, GLASBORD, COLOR: 85 WHITE, FINISH: EMBOSSED

INTERIOR WOOD (IWD):

IWD1	MFR., LINE, PATTERN/TEXTURE, COLOR

PLASTIC LAMINATE (PLAM):

PLAM1	WILSONART, SOLAR OAK

PAINTS (PT) & EPOXY PAINTS (EPT):

PT1 PT2	SHERWIN WILLIAMS, SW7103 WHITETAIL CUSTOM COLOR, DELTA OSCODA BLUE F9/A7.22
PT3	CUSTOM COLOR, CLOUD MOUNTA, SEE G9/A7.22
EPT1	SHERWIN WILLIAMS, SW7103 WHITETAIL

RUBBER WALL BASE (RWB):

RWB1	TARKETT/JOHNSONITE, 4" HIGH COVE BASE, COLOR: 63 BURNT UMBER

SOLID SURFACE (SS):

SS1	DURAT, D0440-01 DARK GREY

TOILET PARTITION (TPI):

TPI	ASI GLOBAL PARTITIONS, HDPE, COLOR: 9509 BLUE

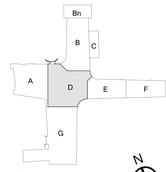
VINYL COMPOSITION TILE (VCT):

VCT1	MFR., LINE, PATTERN, COLOR

WALK OFF CARPET (WCPT):

WCPT1	MFR., LINE, PATTERN, COLOR

THE COLLAB ORATIVE +ACOCK



KEY PLAN

STATE OF MICHIGAN
Brandon M. Andrzejczak
License No. 4301066085
LICENSED ARCHITECT

01	01.21.2026	ADDENDUM 01
	11.21.2025	BID/PERMIT
	09.12.2025	DESIGN DEVELOPMENT
	07.18.2025	SD ISSUANCE

TC JOB NO. 107348

OWNER JOB NO. #Client Custom

PROJECT TITLE

Oscoda Area Schools

Oscoda High School Misc Renovation

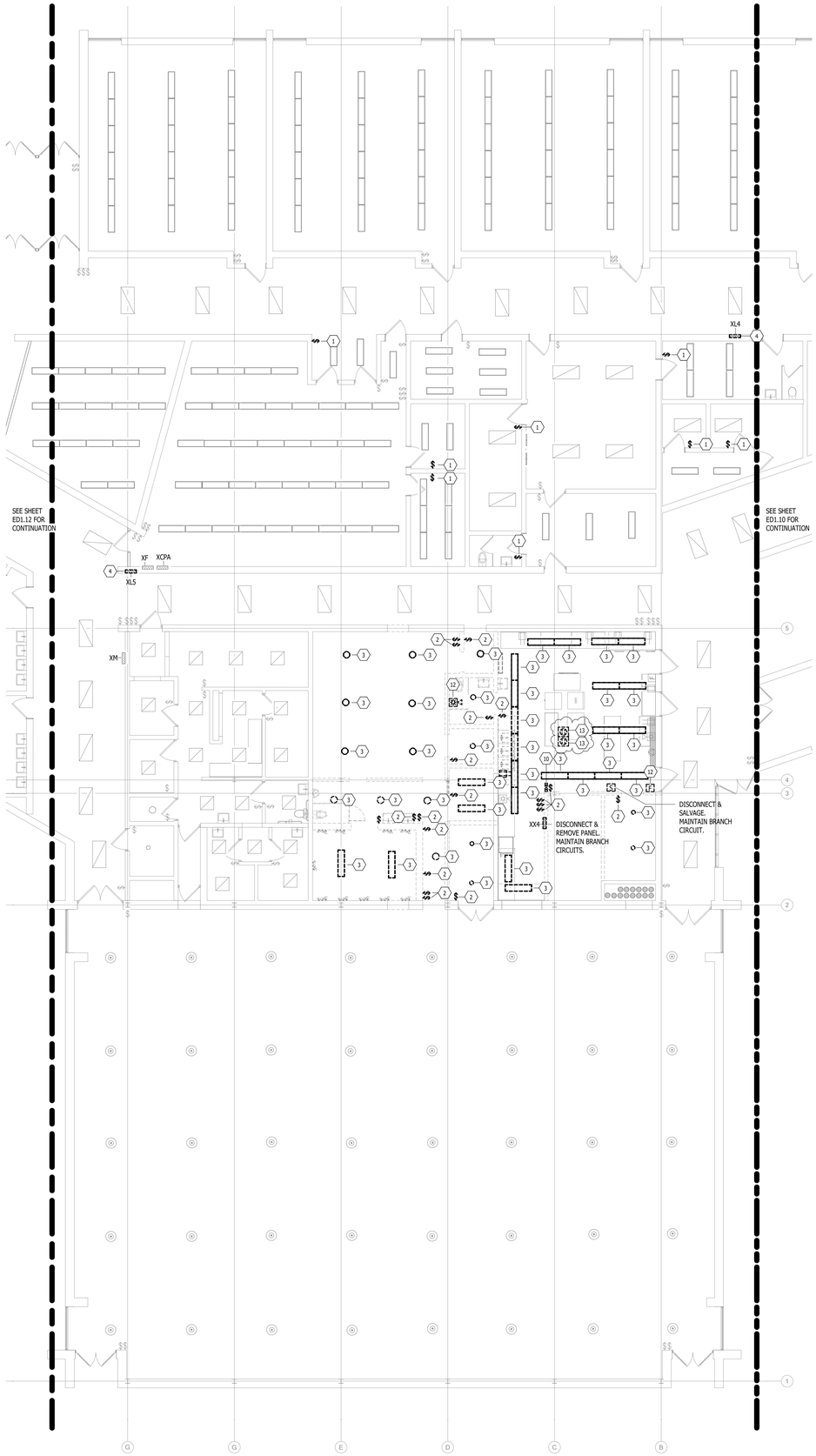
3550 E River Rd,
Oscoda Township,, MI 48750

SHEET TITLE

FIRST FLOOR FINISH PLAN - UNIT D

SHEET NO.

A7.21



KEY NOTES:

#	
1	DISCONNECT AND REMOVE WALL SWITCH. MAINTAIN CIRCUIT FOR REUSE.
2	DISCONNECT AND REMOVE WALL SWITCH INCLUDING CIRCUIT TO NEXT ACTIVE JUNCTION BOX.
3	DISCONNECT AND REMOVE LIGHT FIXTURE. MAINTAIN CIRCUIT FOR REUSE.
4	DISCONNECT AND REMOVE ELECTRICAL PANEL, MAINTAIN BRANCH WIRING FOR REUSE. PREP FOR NEW PANEL IN SAME LOCATION.
10	DISCONNECT AND REMOVE ELECTRICAL DEVICE/EQUIPMENT, INCLUDING CIRCUIT TO SOURCE.
12	DISCONNECT AND SALVAGE FIRE ALARM SYSTEM DEVICE. PREP FOR RELOCATION OF DEVICE AND EXTENSION OF CIRCUIT.
13	DISCONNECT AND REMOVE RECEPTACLE AND BOX. MAINTAIN WIRING FOR REUSE.

FIRST FLOOR DEMOLITION PLAN - UNIT B

1/8" = 1'-0"

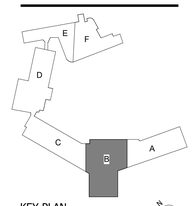
THE COLLABORATIVE +ACOCK

MEP CONSULTING ENGINEER

KTS ENGINEERING GROUP

491 E. WRIGHT AVE.
SHEPHERD, MI 48883
(PH) 989-567-1100
info@KTSEngineeringGroup.com
KTS PROJECT NO. 25-0275

STATE OF MICHIGAN
KTS ENGINEERING GROUP
CATHERINE A. HOLTZ
ENGINEER
61213
LICENSED PROFESSIONAL ENGINEER
11/14/25
25-0275



KEY PLAN
N.T.S.

PROJECT TITLE

Oscoda Area Schools

OAS Misc. Renovations - Richardson

E River Rd
Au Sable Township, MI 48750

01.21.2026	ADDENDUM 01
11.14.2025	REVIEW

TC JOB NO. 107348

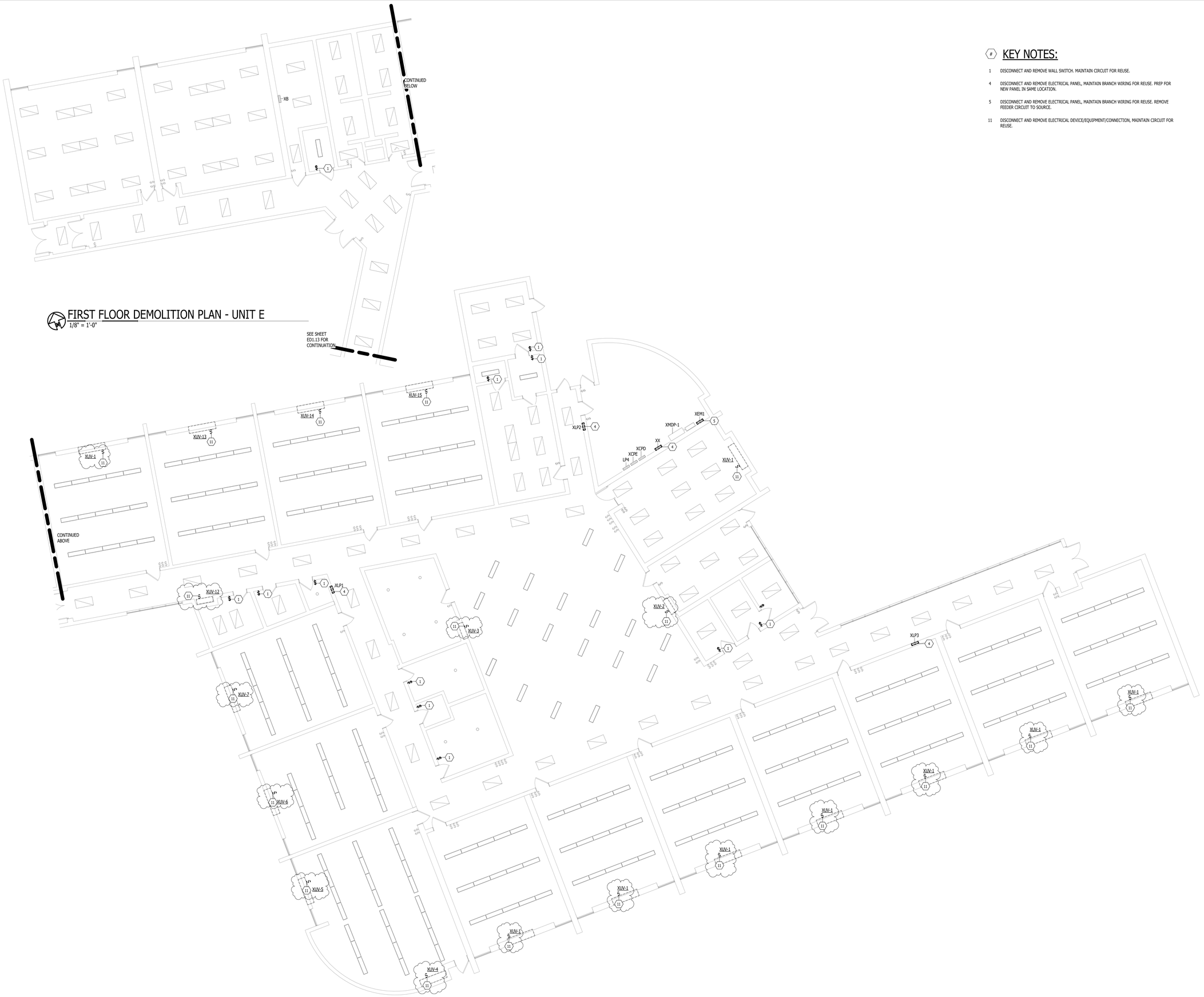
OWNER JOB NO.

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - UNIT B

SHEET NO.

ED1.11



FIRST FLOOR DEMOLITION PLAN - UNIT E

1/8" = 1'-0"

FIRST FLOOR DEMOLITION PLAN - UNITS E & F

1/8" = 1'-0"

KEY NOTES:

#	
1	DISCONNECT AND REMOVE WALL SWITCH. MAINTAIN CIRCUIT FOR REUSE.
4	DISCONNECT AND REMOVE ELECTRICAL PANEL, MAINTAIN BRANCH WIRING FOR REUSE. PREP FOR NEW PANEL IN SAME LOCATION.
5	DISCONNECT AND REMOVE ELECTRICAL PANEL, MAINTAIN BRANCH WIRING FOR REUSE. REMOVE FEEDER CIRCUIT TO SOURCE.
11	DISCONNECT AND REMOVE ELECTRICAL DEVICE/EQUIPMENT/CONNECTION, MAINTAIN CIRCUIT FOR REUSE.

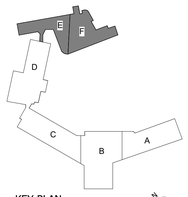
THE COLLABORATIVE +ACOCK

MEP CONSULTING ENGINEER

KTS ENGINEERING GROUP

491 E. WRIGHT AVE.
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KTS PROJECT NO. 25-0275





KEY PLAN
N.T.S.

PROJECT TITLE

Oscoda Area Schools

OAS Misc. Renovations - Richardson

E River Rd
Au Sable Township, MI 48750

01.21.2026	ADDENDUM 01
11.14.2025	REVIEW

TC JOB NO. 107348

OWNER JOB NO.

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - UNITS E & F

SHEET NO.

ED1.14

KEY NOTES:

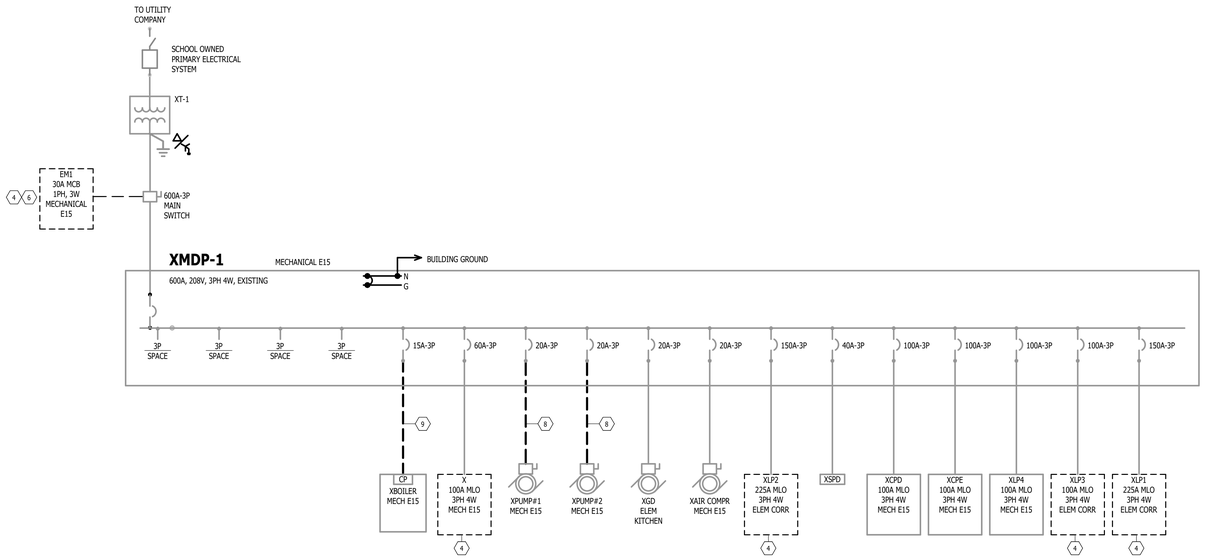
4 DISCONNECT AND REMOVE ELECTRICAL PANEL, MAINTAIN BRANCH WIRING FOR REUSE. PREP FOR NEW PANEL IN SAME LOCATION.

6 DISCONNECT FIRE ALARM SYSTEM CIRCUIT. PREP FOR EXTENSION TO CRITICAL ELECTRICAL PANEL.

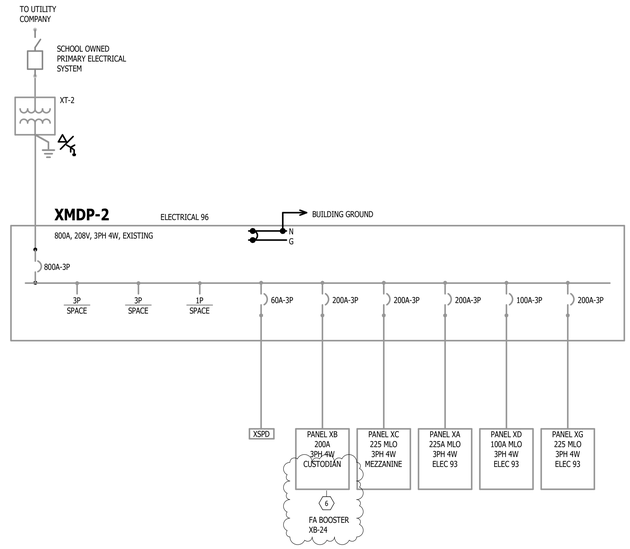
8 DISCONNECT PUMP CIRCUIT. PREP FOR EXTENSION TO CRITICAL ELECTRICAL PANEL.

9 DISCONNECT BOILER CIRCUIT. PREP FOR EXTENSION TO CRITICAL ELECTRICAL PANEL.

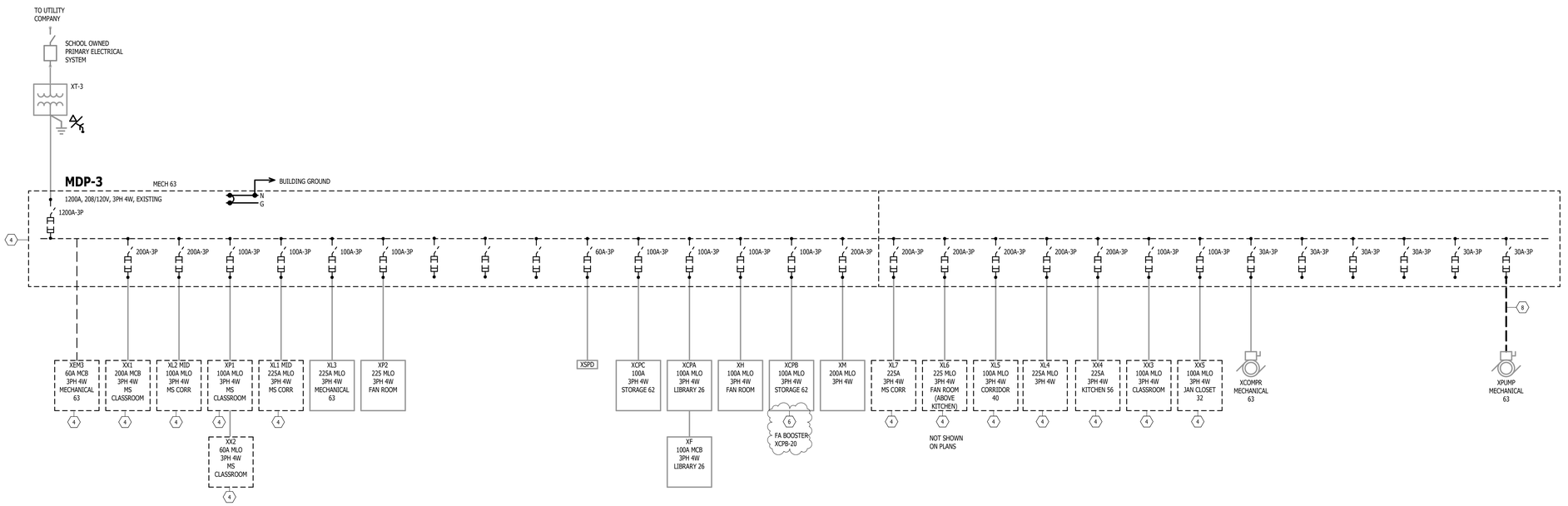
ONE LINE DEMOLITION DIAGRAM - ELEMENTARY SCHOOL



ONE LINE DEMOLITION DIAGRAM - MS ADDITION



ONE LINE DEMOLITION DIAGRAM - MIDDLE SCHOOL

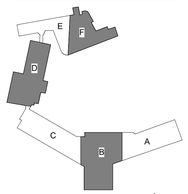


1 ED7.01 ONE LINE DEMOLITION DIAGRAM
NOT TO SCALE

THE COLLABORATIVE +ACOCK

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CATHERINE A. HALCZ
ENGINEER
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LICENSED PROFESSIONAL ENGINEER
25-0275



KEY PLAN
N.T.S.

PROJECT TITLE
Oscoda Area Schools

OAS Misc. Renovations - Richardson

E River Rd
Au Sable Township, MI 48750

01.21.2026	ADDENDUM 01
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OWNER JOB NO.

SHEET TITLE
ONE LINE DEMOLITION DIAGRAM

SHEET NO.
ED7.01

KEY NOTES:

1 NEW OCCUPANCY SENSOR LOCATION. PROVIDE PROPER SENSITIVITY AND TIME DELAY SETTINGS AND MANUFACTURERS RECOMMENDED PLACEMENT.

2 NEW WALL SWITCH WITH OCCUPANCY SENSOR. PROVIDE PROPER SENSITIVITY AND TIME DELAY SETTINGS PER MANUFACTURERS RECOMMENDATIONS.

3 NEW ELECTRICAL PANEL IN SAME LOCATION AS PREVIOUS. MATCH NUMBER OF CIRCUITS AND MATCH SIZE AS CLOSELY AS POSSIBLE IF RECESSED TO AVOID CHANGING WALL OPENING. EXTEND BRANCH WIRING TO NEW PANEL AS NECESSARY.

6 PROVIDE EMERGENCY CIRCUIT TO SELECTED LIGHT FIXTURES AND LIGHTING TRANSFER DEVICE. EXTEND NORMAL LIGHTING CIRCUIT TO LIGHTING TRANSFER DEVICE.

9 FIELD VERIFY EXACT LOCATION.



FIRST FLOOR PLAN - UNIT A
1/8" = 1'-0"

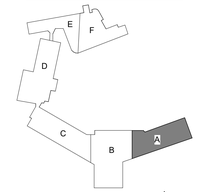
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BRIAN C. CATHELL
CATHELL
ENGINEER
61213
PROFESSIONAL ENGINEER
11/14/25
25-0275



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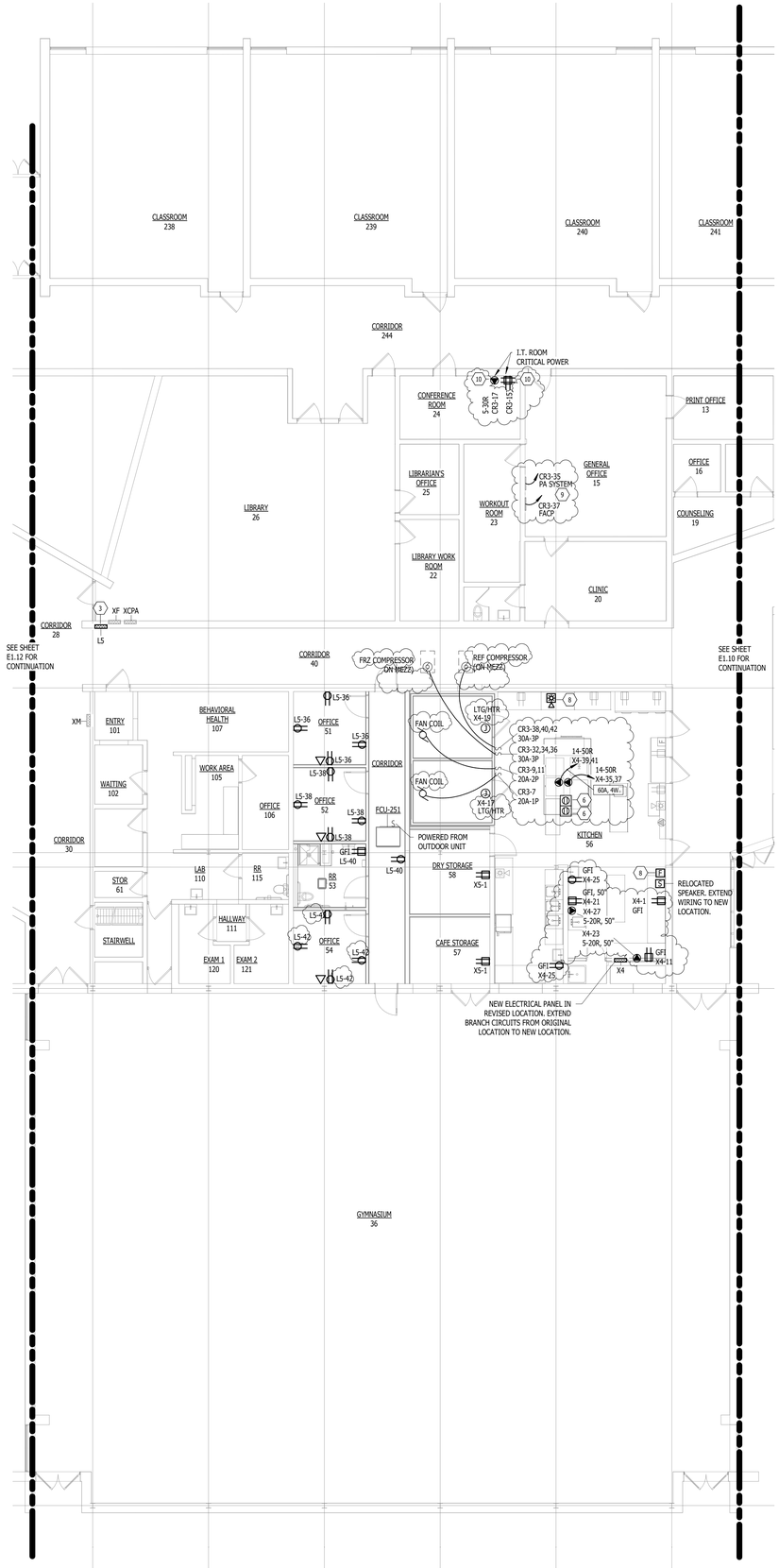
OWNER JOB NO.

SHEET TITLE

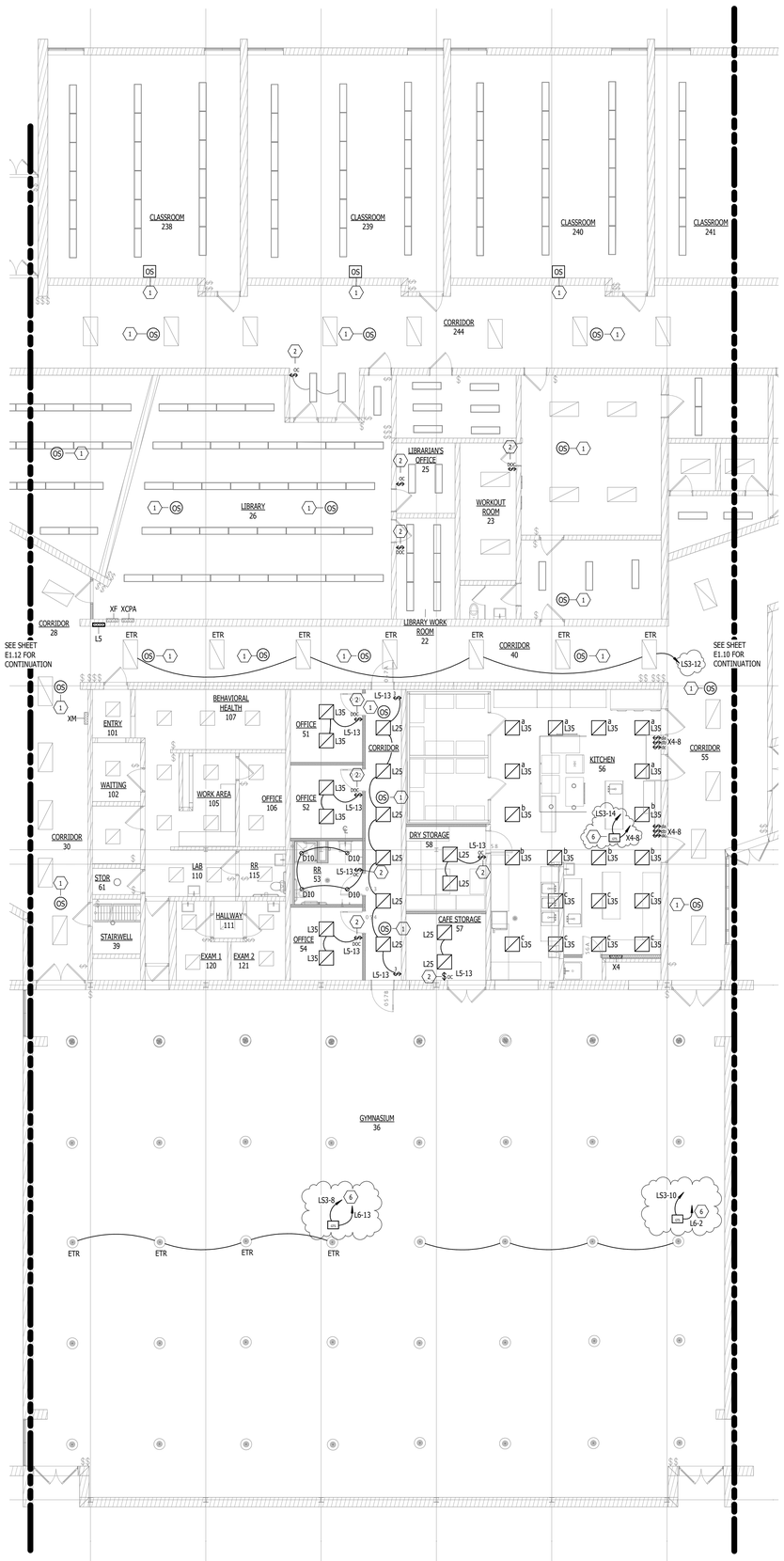
FIRST FLOOR PLAN - UNIT A

SHEET NO.

E1.10



FIRST FLOOR PLAN - UNIT B - POWER
1/8" = 1'-0"



FIRST FLOOR PLAN - UNIT B - LIGHTING
1/8" = 1'-0"

KEY NOTES:

1 NEW OCCUPANCY SENSOR LOCATION. PROVIDE PROPER SENSITIVITY AND TIME DELAY SETTINGS AND MANUFACTURERS RECOMMENDED PLACEMENT.

2 NEW WALL SWITCH WITH OCCUPANCY SENSOR. PROVIDE PROPER SENSITIVITY AND TIME DELAY SETTINGS PER MANUFACTURERS RECOMMENDATIONS.

3 NEW ELECTRICAL PANEL IN SAME LOCATION AS PREVIOUS. MATCH NUMBER OF CIRCUITS AND MATCH SIZE AS CLOSELY AS POSSIBLE IF RECESSED TO AVOID CHANGING WALL OPENING. EXTEND BRANCH WIRING TO NEW PANEL AS NECESSARY.

6 PROVIDE EMERGENCY CIRCUIT TO SELECTED LIGHT FIXTURES AND LIGHTING TRANSFER DEVICE. EXTEND NORMAL LIGHTING CIRCUIT TO LIGHTING TRANSFER DEVICE.

8 RELOCATED FIRE ALARM DEVICE. EXTEND EXISTING CIRCUIT TO NEW LOCATION.

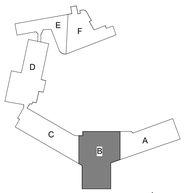
9 FIELD VERIFY EXACT LOCATION.

10 CONFIRM OUTLET LOCATION AND CONFIGURATION WITH IT DEPARTMENT.

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STATE OF MICHIGAN
BRIAN T. CARPENTER
ENGINEER
61212
LICENSED PROFESSIONAL ENGINEER
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KEY PLAN
N.T.S.

PROJECT TITLE
Oscoda Area Schools

OAS Misc. Renovations - Richardson

E River Rd
Au Sable Township, MI 48750

01.21.2026	ADDENDUM 01
11.14.2025	REVIEW

TC JOB NO. 107348

OWNER JOB NO.

SHEET TITLE
FIRST FLOOR PLAN - UNIT B

SHEET NO.
E1.11



FIRST FLOOR PLAN - UNIT C
1/8" = 1'-0"

KEY NOTES:

1 NEW OCCUPANCY SENSOR LOCATION. PROVIDE PROPER SENSITIVITY AND TIME DELAY SETTINGS AND MANUFACTURERS RECOMMENDED PLACEMENT.

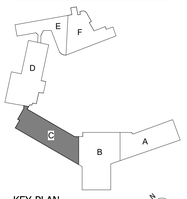
3 NEW ELECTRICAL PANEL IN SAME LOCATION AS PREVIOUS. MATCH NUMBER OF CIRCUITS AND MATCH SIZE AS CLOSELY AS POSSIBLE IF RECESSED TO AVOID CHANGING WALL OPENING. EXTEND BRANCH WIRING TO NEW PANEL AS NECESSARY.

6 PROVIDE EMERGENCY CIRCUIT TO SELECTED LIGHT FIXTURES AND LIGHTING TRANSFER DEVICE. EXTEND NORMAL LIGHTING CIRCUIT TO LIGHTING TRANSFER DEVICE.

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STATE OF MICHIGAN
BRIAN C. [illegible]
CATHOLIC
ENGINEER
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11/14/25
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KEY PLAN
N.T.S.

PROJECT TITLE
Oscoda Area Schools

OAS Misc. Renovations - Richardson

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Au Sable Township, MI 48750

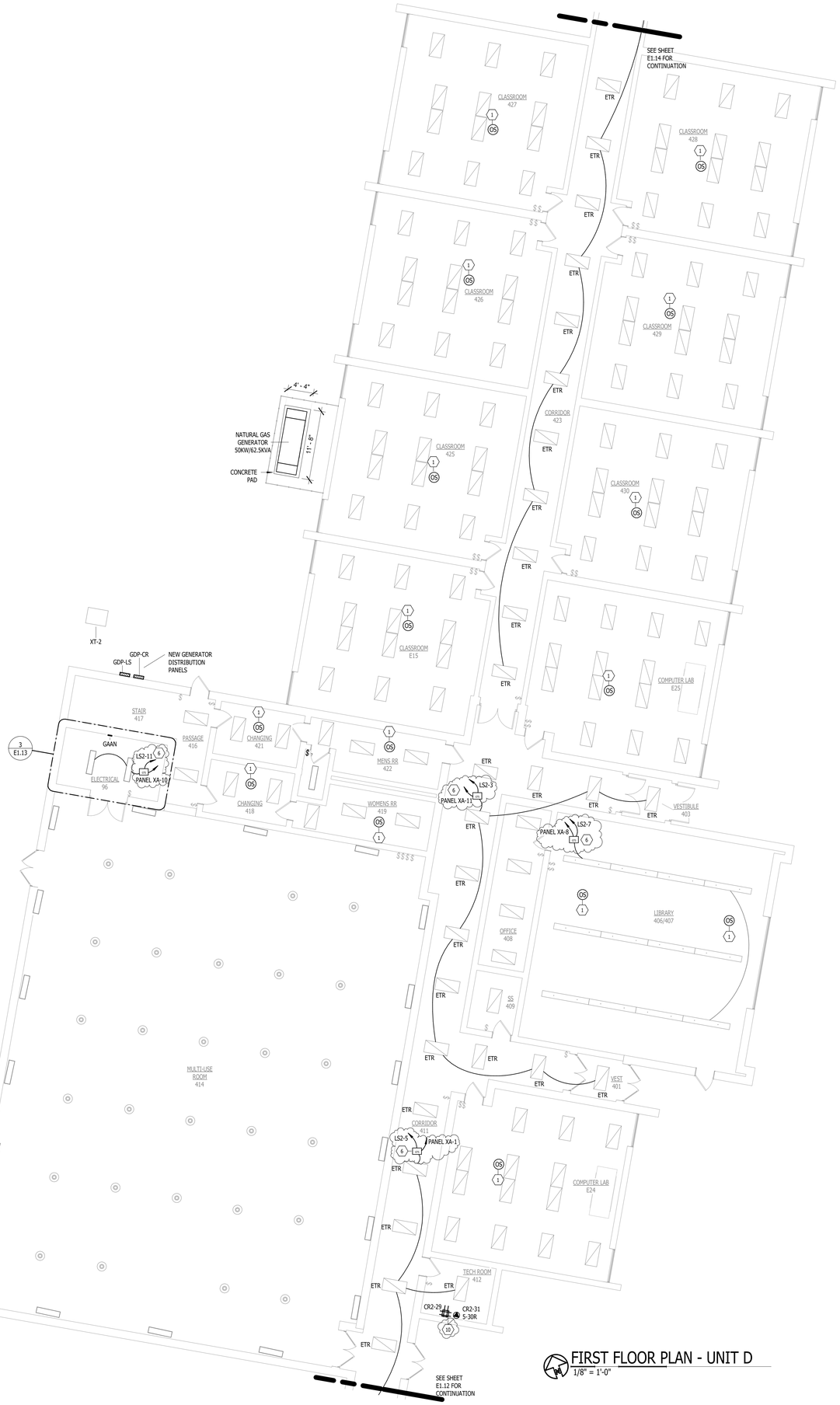
01.21.2026	ADDENDUM 01
11.14.2025	REVIEW

TC JOB NO. 107348

OWNER JOB NO.

SHEET TITLE
FIRST FLOOR PLAN - UNIT C

SHEET NO.
E1.12



FIRST FLOOR PLAN - UNIT D
1/8" = 1'-0"

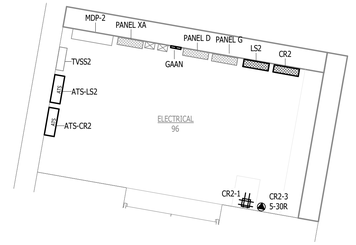
KEY NOTES:

1 NEW OCCUPANCY SENSOR LOCATION. PROVIDE PROPER SENSITIVITY AND TIME DELAY SETTINGS AND MANUFACTURERS RECOMMENDED PLACEMENT.

6 PROVIDE EMERGENCY CIRCUIT TO SELECTED LIGHT FIXTURES AND LIGHTING TRANSFER DEVICE. EXTEND NORMAL LIGHTING CIRCUIT TO LIGHTING TRANSFER DEVICE.

7 VFD PROVIDED BY EQUIPMENT MANUFACTURER, WIRED BY ELECTRICAL CONTRACTOR.

10 CONFIRM OUTLET LOCATION AND CONFIGURATION WITH IT DEPARTMENT.



ENLARGED PLAN
1/4" = 1'-0"
1 E1.13



SECOND FLOOR PLAN - UNIT D
1/8" = 1'-0"

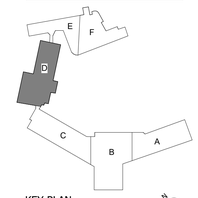
THE COLLABORATIVE +ACOCK

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KTS PROJECT NO. 25-027S





KEY PLAN
N.T.S.

PROJECT TITLE

Oscoda Area Schools

OAS Misc. Renovations - Richardson

E River Rd
Au Sable Township, MI 48750

01.21.2026	ADDENDUM 01
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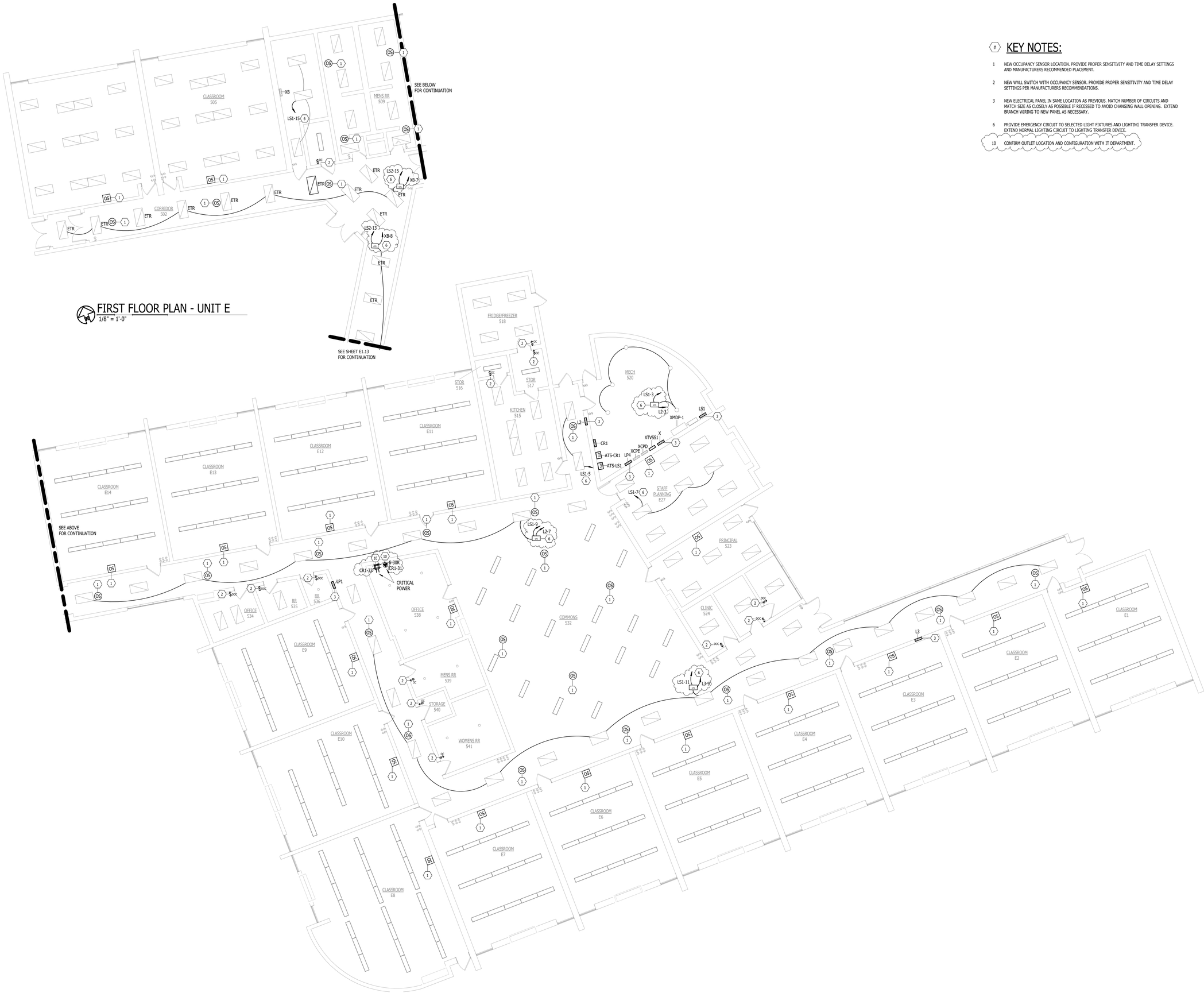
OWNER JOB NO.

SHEET TITLE

FLOOR PLANS - UNIT D

SHEET NO.

E1.13



FIRST FLOOR PLAN - UNIT E
1/8" = 1'-0"

FIRST FLOOR PLAN - UNITS E & F
1/8" = 1'-0"

KEY NOTES:

1 NEW OCCUPANCY SENSOR LOCATION. PROVIDE PROPER SENSITIVITY AND TIME DELAY SETTINGS AND MANUFACTURERS RECOMMENDED PLACEMENT.

2 NEW WALL SWITCH WITH OCCUPANCY SENSOR. PROVIDE PROPER SENSITIVITY AND TIME DELAY SETTINGS PER MANUFACTURERS RECOMMENDATIONS.

3 NEW ELECTRICAL PANEL IN SAME LOCATION AS PREVIOUS. MATCH NUMBER OF CIRCUITS AND MATCH SIZE AS CLOSELY AS POSSIBLE IF RECESSED TO AVOID CHANGING WALL OPENING. EXTEND BRANCH WIRING TO NEW PANEL AS NECESSARY.

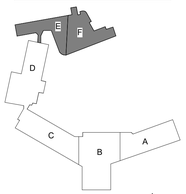
6 PROVIDE EMERGENCY CIRCUIT TO SELECTED LIGHT FIXTURES AND LIGHTING TRANSFER DEVICE. EXTEND NORMAL LIGHTING CIRCUIT TO LIGHTING TRANSFER DEVICE.

10 CONFIRM OUTLET LOCATION AND CONFIGURATION WITH IT DEPARTMENT.

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STATE OF MICHIGAN
BRIAN J. STOLTZ
CAPTAIN
ENGINEER
61212
LICENSED PROFESSIONAL ENGINEER
11/14/25
25-0275



KEY PLAN
N.T.S.

PROJECT TITLE
Oscoda Area Schools

OAS Misc. Renovations - Richardson

E River Rd
Au Sable Township, MI 48750

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11.14.2025	REVIEW

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OWNER JOB NO.

SHEET TITLE
FIRST FLOOR PLAN - UNITS E & F

SHEET NO.
E1.14

Branch Panel: L5

Location: CORRIDOR 40
Supply From: MDP-3
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: MATCH EXISTING
Mains Type: MLO
Mains Rating: 100 A
MCB Rating: 0 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	X-Motor DOOR OPERATOR	20 A	1	240 VA	900 VA					1	20 A	X-Motor EXHAUST FAN	2
3							240 VA			1	20 A	X-Motor DOOR OPERATOR	4
5	X-Lighting CLASSROOM 29	20 A	1					0 VA	0 VA	1	20 A	X-Receptacle CLASSROOM 29	6
7	X-Lighting VEST31+BOYS33+VEST43+GIRLS35	20 A	1	0 VA	0 VA					1	20 A	X-Receptacle JC32+CORR40	8
9	X-Lighting VEST41+GIRLS42+STOR43	20 A	1			0 VA	0 VA			1	20 A	X-EXHAUST FAN 10 ON ROOF	10
11	X-Lighting OFF44+DRYING45+PASS46+SHWR47	20 A	1					0 VA	0 VA	1	20 A	X-Receptacle GIRLS42+OFF44	12
13	X-Receptacle STOR37+PASS49+OFF51+DRY50	20 A	1	387 VA	0 VA					1	20 A	X-HAND DRYER GIRLS LOCKER 42	14
15	X-Lighting STOR52+BOYS53+VEST54	20 A	1			0 VA	0 VA			1	20 A	X-HAND DRYER GIRLS LOCKER 42	16
17	X-Lighting WKRM22+OFF25+LIB26	20 A	1					0 VA	0 VA	1	20 A	X-HAND DRYER GIRLS LOCKER 42	18
19	X-Lighting LIBRARY 26	20 A	1	240 VA	0 VA					1	20 A	X-HAND DRYER GIRLS LOCKER 42	20
21	X-Lighting LIBRARY 26	20 A	1			260 VA	0 VA			1	20 A	X-Receptacle OFF51+BOYS53	22
23	X-Lighting LIBRARY 26	20 A	1					240 VA	0 VA	1	20 A	X-Receptacle WKRM24+OFF25	24
25	X-Lighting LIBRARY 26	20 A	1	0 VA	0 VA					1	20 A	X-Receptacle LIBRARY26+HPF	26
27	X-Lighting EXTERIOR+CORR28	20 A	1			0 VA	0 VA			1	20 A	X-UNIT HEATER CORRIDOR 28	28
29	X-Lighting LIB26+CORR28+LOBBY29+JC32	20 A	1					0 VA	0 VA	1	20 A	X-UNIT HEATER CORRIDOR 28	30
31				0 VA						1	20 A	X-Receptacle CORRIDOR 28	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	X-UNIT HEATER CORRIDOR	34
35	SPARE	20 A	1					0 VA	720 VA	1	20 A	Receptacle OFFICE 51	36
37	SPARE	20 A	1	0 VA	720 VA					1	20 A	Receptacle OFFICE 52	38
39	SPARE	20 A	1			0 VA	360 VA			1	20 A	Receptacle TOILET 53	40
41	SPARE	20 A	1					0 VA	720 VA	1	20 A	Receptacle OFFICE 54	42
			Total Load:	2487 VA		860 VA		1680 VA					
			Total Amps:	22 A		7 A		15 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1380 VA	116.30%	1605 VA		
Receptacle	2520 VA	100.00%	2520 VA	**Total Conn. Load:**	5027 VA
Lighting	1127 VA	125.00%	1409 VA	**Total Est. Demand:**	5534 VA
				Total Conn.:	14 A
				Total Est. Demand:	15 A

Notes:

Branch Panel: X4

Location: KITCHEN 56
Supply From: MDP-3
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kAIC
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: 0 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle KITCHEN 56	20 A	1	180 VA	360 VA					1	20 A	X-Receptacle KITCHEN 56	2
3	X-Receptacle KITCHEN 56	20 A	1			360 VA	360 VA			1	20 A	X-Receptacle KITCHEN 56	4
5	X-Receptacle KITCHEN 56	20 A	1					360 VA	600 VA	1	20 A	X-Kitchen DISHWASHER KITCHEN 56	6
7	X-Kitchen MALT MACH KITCHEN 56	20 A	2	1250...	494 VA					1	20 A	Lighting KITCHEN 56	8
9						1250...	0 VA			1	20 A	SPARE	10
11	Receptacle KITCHEN 56	20 A	1					180 VA	600 VA	1	20 A	X-Kitchen HOOD KITCHEN 56	12
13	X-Kitchen FOOD WELL KITCHEN	20 A	2	1250...	600 VA					1	20 A	X-Kitchen OVEN KITCHEN 56	14
15						1250...	600 VA			1	20 A	X-Kitchen OVEN KITCHEN 56	16
17	Lighting COOLER KITCHEN 56	20 A	1					1800...	1000...				18
19	Lighting FREEZER KITCHEN 56	20 A	1	1800...	1000...					3	15 A	X-EXISTING LOAD	20
21	Receptacle KITCHEN 56	20 A	1			180 VA	1000...						22
23	Receptacle KITCHEN 56	20 A	1					0 VA	3333...				24
25	Receptacle KITCHEN 56	20 A	1	360 VA	3333...					3	40 A	X-Kitchen BOOSTER HTR KITCHEN 56	26
27	Receptacle KITCHEN 56	20 A	1			1200...	3333...						28
29	SPARE	20 A	1					0 VA	1500...	1	20 A	X-Kitchen MICROWAVE KITCHEN 56	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	Receptacle STEAMER KITCHEN 56	20 A	2					7539...	0 VA	1	20 A	SPARE	36
37				7539...	1346...								38
39	Receptacle STEAMER KITCHEN 56	20 A	2			7539...	1346...			3	20 A	X-Kitchen DISPOSAL KITCHEN 56	40
41								7539...	1346...				42
			Total Load:	19512 VA		18418 VA		25797 VA					
			Total Amps:	164 A		153 A		216 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	36696 VA	63.63%	23348 VA	**Total Conn. Load:**	63728 VA
Lighting	4094 VA	125.00%	5118 VA	**Total Est. Demand:**	43375 VA
Kitchen	22938 VA	65.00%	14910 VA	**Total Conn.:**	177 A
				Total Est. Demand:	120 A

Notes:

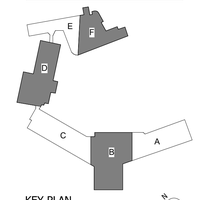
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MEP CONSULTING ENGINEER

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KTS PROJECT NO. 25-0275

STATE OF MICHIGAN
STEVEN C. CATHEY
ENGINEER
No. 61212
LICENSED PROFESSIONAL ENGINEER
10/16/26
25-0275



KEY PLAN
N.T.S.

PROJECT TITLE

Oscoda Area Schools

OAS Misc. Renovations - Richardson

E River Rd
Au Sable Township, MI 48750

01.21.2026	ADDENDUM 01

TC JOB NO. 107348

OWNER JOB NO.

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NO.

E6.02

SECTION 080671 – DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section references specification sections relating to commercial door hardware for the following:

1. Swinging doors.
2. Sliding Doors.
3. Other doors to the extent indicated.

B. Commercial door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical and access control door hardware.
3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
4. Automatic operators.
5. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Door Hardware”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.

D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service

representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.5 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.6 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. Refer to “PART 3 – EXECUTION” for required specification sections.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a

hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Products listed in the hardware sets shall be supplied by and in accordance with the requirements described in the specification section as noted for each item.

1. Section 08 71 00 – Door Hardware.

C. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. RU - Corbin Russwin
4. OT - Other
5. RO - Rockwood
6. RF - Rixson
7. NO - Norton
8. SU - Securitron

Hardware Sets

Set: 1

Doors: 220-2, 229-2

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100	
1	Rim Exit Device	PED5255 MELR N955PT M91 LC	630	RU	087100	
1	Mortise Cylinder	Match Owners Existing System		OT		
1	Rim Cylinder	Match Owners Existing System		OT		
1	Conc Overhead Stop	6-x36	630	RF	087100	
1	Automatic Opener	6331	689	NO	087100	⚡
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Gasketing	S88BL		PE	087100	

2	Door Switch	505		NO 087100	⚡
1	Keyswitch	MK		SU 087100	⚡

Notes: Door normally closed and locked.
When unlocked using either the push or pull side actuator switch will activate automatic operator, allowing ingress/egress.
Automatic operator functions as a normal mechanical door closer without the use of the actuator switches.
Loss of power disables automatic operator's electrical opening capability, yet operator will function as a normal mechanical door closer.
Free egress at all times.

Set: 2

Doors: 224A

3	Hinge (heavy weight)	T4A3786	US26D	MK	087100
1	Storeroom Lock	ML2057 NSA LC	626	RU	087100
1	Mortise Cylinder	Match Owners Existing System		OT	
1	Surface Closer	DC6200/DC6210 (As Required)	689	RU	087100
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Wall Stop	406 / 409	US32D	RO	087100
3	Silencer	608 / 609		RO	087100

Notes:

Set: 3

Doors: 225, 227

3	Hinge, Full Mortise, Hvy Wt	T4A3386	CPC(SS)	MK	087100
1	Classroom Lock	ML2055 NSA M26 LC	630C	RU	087100
1	Mortise Cylinder	Match Owners Existing System		OT	
1	Surface Closer	DC6200/DC6210 (As Required) M75	689	RU	087100
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Wall Stop	406 / 409	US32D	RO	087100
1	Gasketing	S88BL		PE	087100

Notes:

Set: 4

Doors: 220-1, 229-1

2	Push Plate	70E	US32D-316	RO	087100
1	Concealed Closer	73N	689	RF	087100
2	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Door Stop	487/441CU (As Required)	US26D	RO	087100

END OF SECTION 080671

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Standard and custom hollow metal doors and frames.
2. Steel sidelight, borrowed lite and transom frames.
3. Louvers installed in hollow metal doors.
4. Light frames and glazing installed in hollow metal doors.

B. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 04 Section "Unit Masonry" for embedding anchors for hollow metal work into masonry construction.
3. Division 08 Section “Flush Wood Doors”.
4. Division 08 Section "Glazing" for glass view panels in hollow metal doors.
5. Division 08 Section "Door Hardware".
6. Division 08 Section "Access Control Hardware".
7. Division 09 Sections "Exterior Painting" and "Interior Painting" for field painting hollow metal doors and frames.

C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI/SDI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
2. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frames Anchors and Hardware Reinforcing.
3. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
4. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
5. ANSI/SDI A250.11 - Recommended Erection Instructions for Steel Frames.
6. ASTM A1008 - Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
7. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

8. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
9. 10. SDI-113 Standard Practice for Determining the Steady-State Thermal Transmittance of Steel Door & Frame Assemblies.
10. ASTM C 1363 - Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus.
11. ASTM C1199 - Standard Test Method for Measuring the Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods
12. ASTM E1423 - Practice for Determining Steady State Thermal Transmittance of Fenestration Systems.
13. ANSI/BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.
14. ANSI/SDI 122 - Installation and Troubleshooting Guide for Standard Steel Doors and Frames.
15. ANSI/NFPA 80 - Standard for Fire Doors and Fire Windows; National Fire Protection Association.
16. ANSI/NFPA 105: Standard for the Installation of Smoke Door Assemblies.
17. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association.
18. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
19. UL 1784 - Standard for Air Leakage Tests of Door Assemblies.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, hardware reinforcements, profiles, anchors, fire-resistance rating, and finishes.

B. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.

C. Shop Drawings: Include the following:

1. Elevations of each door design.
2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
4. Locations of reinforcement and preparations for hardware.
5. Details of anchorages, joints, field splices, and connections.
6. Details of accessories.
7. Details of moldings, removable stops, and glazing.
8. Details of conduit and preparations for power, signal, and control systems.

D. Samples for Verification:

1. Samples are only required by request of the architect and for manufacturers that are not current members of the Steel Door Institute.

1.4 QUALITY ASSURANCE

A. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.

B. Quality Standard: In addition to requirements specified, furnish SDI-Certified manufacturer products that comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".

C. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL10C (neutral pressure at 40” above sill) or UL 10C.

1. Oversize Fire-Rated Door Assemblies Construction: For units exceeding sizes of tested assemblies, attach construction label certifying doors are built to standard construction requirements for tested and labeled fire rated door assemblies except for size.
2. Temperature-Rise Limit: Where indicated and at vertical exit enclosures (stairwell openings) and exit passageways, provide doors that have a maximum transmitted temperature end point of not more than 450 deg F (250 deg C) above ambient after 30 minutes of standard fire-test exposure.
3. Smoke Control Door Assemblies: Comply with NFPA 105.

    a. Smoke "S" Label: Doors to bear “S” label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.

D. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257. Provide labeled glazing material.

E. Storm Shelter Openings: Provide complete door systems for hurricane or tornado storm shelters, and other areas of refuge, complying and tested according to ICC 500 (2014/2020), ICC/NSSA Standard for the Design and Construction of Storm Shelters.

1. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

F. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing hollow metal doors and frames and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.

B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.

C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.

1. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.7 COORDINATION

A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

B. Building Information Modeling (BIM) Support: Utilize designated BIM software tools and obtain training needed to successfully participate in the Project BIM processes. All technical disciplines are responsible for the product data integration and data reliability of their Work into the coordinated BIM applications.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.

B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide steel doors and frames from a SDI Certified manufacturer:

1. CECO Door Products (C).
2. Curries Company (CU).

2.2 MATERIALS

A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.

B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

C. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

2.3 HOLLOW METAL DOORS

A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMA 867.

B. Interior Doors: Face sheets fabricated of commercial quality cold rolled steel that complies with ASTM A 1008/A 1008M. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:

1. Design: Flush panel.
2. Core Construction: Manufacturer's standard kraft-paper honeycomb, or one-piece polystyrene core, securely bonded to both faces.

    a. Fire Door Core: As required to provide fire-protection and temperature-rise ratings indicated.

3. Level/Model: Level 2 and Physical Performance Level B (Heavy Duty), Minimum 18 gauge (0.042-inch - 1.0-mm) thick steel, Model 2.
4. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet.
5. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
6. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

C. Manufacturers Basis of Design:

1. CECO Door Products (C) Polystyrene Core - Legion Series.
2. Curries Company (CU) - Polystyrene Core - 707 Series.

2.4 HOLLOW METAL FRAMES

A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.

B. Interior Frames: Fabricated from cold-rolled steel sheet that complies with ASTM A 1008/A 1008M.

1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
2. Manufacturers Basis of Design:

    a. CECO Door Products (C) - DU Series.
    b. CECO Door Products (C) - SU Series.
    c. Curries Company (CU) - M Series.

C. Fire rated frames: Fabricate frames in accordance with NFPA 80, listed and labeled by a qualified testing agency, for fire-protection ratings indicated.

D. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 Table 4 with reinforcement plates from same material as frames.

2.5 FRAME ANCHORS

A. Jamb Anchors:

1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed from A60 metallic coated material, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
2. Stud Wall Type: Designed to engage stud and not less than 0.042 inch thick.
3. Compression Type for Drywall Slip-on (Knock-Down) Frames: Adjustable compression anchors.

B. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic coated material, not less than 0.042 inches thick.

C. Mortar Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.6 LOUVERS

A. Metal Louvers: Unless otherwise indicated provide louvers to meet the following requirements.

1. Blade Type: Vision proof inverted V or inverted Y.
2. Metal and Finish: Galvanized steel, 0.040 inch thick, factory primed for paint finish with baked enamel or powder coated finish. Match pre-finished door paint color where applicable.

B. Louvers for Fire Rated Doors: Metal louvers with fusible link and closing device, listed and labeled for use in doors with fire protection rating of 1-1/2 hours and less.

1. Manufacturers: Subject to compliance with requirements, provide louvers to meet rating indicated.
2. Metal and Finish: Galvanized steel, 0.040 inch thick, factory primed for paint finish with baked enamel or powder coated finish. Match pre-finished door paint color where applicable.

2.7 LIGHT OPENINGS AND GLAZING

A. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints at fabricator’s shop. Fixed and removable stops to allow multiple glazed lites each to be removed independently. Coordinate frame rabbet widths between fixed and removable stops with the type of glazing and installation indicated.

B. Moldings for Glazed Lites in Doors and Loose Stops for Glazed Lites in Frames: Minimum 20 gauge thick, fabricated from same material as door face sheet in which they are installed.

C. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch (16 mm) high unless otherwise indicated. Provide fixed frame moldings and stops on outside of exterior and on secure side of interior doors and frames.

D. Preformed Metal Frames for Light Openings: Manufacturer's standard frame formed of 0.048-inch-thick, cold rolled steel sheet; with baked enamel or powder coated finish; and approved for use in doors of fire protection rating indicated. Match pre-finished door paint color where applicable.

2.8 ACCESSORIES

A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.

B. Grout Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.9 FABRICATION

A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.

B. Tolerances: Fabricate hollow metal work to tolerances indicated in ANSI/SDI A250.8.

C. Hollow Metal Doors:

1. Exterior Doors: Provide optional weep-hole openings in bottom of exterior doors to permit moisture to escape where specified.
2. Glazed Lites: Factory cut openings in doors with applied trim or kits to fit. Factory install glazing where indicated.
3. Astragals: Provide overlapping astragals as noted in door hardware sets in Division 08 Section "Door Hardware" on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted.
4. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge strap for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".

D. Hollow Metal Frames:

1. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
2. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.

a. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.

3. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
4. High Frequency Hinge Reinforcement: Provide high frequency hinge reinforcements at door openings 48-inches and wider with mortise butt type hinges at top hinge locations.
5. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge straps for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".
6. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
7. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
8. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
9. Jamb Anchors: Provide number and spacing of anchors as follows:

    a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches on-center and as follows:

        1) Two anchors per jamb up to 60 inches high.
        2) Three anchors per jamb from 60 to 90 inches high.
        3) Four anchors per jamb from 90 to 120 inches high.
        4) Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.

    b. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:

        1) Three anchors per jamb up to 60 inches high.
        2) Four anchors per jamb from 60 to 90 inches high.
        3) Five anchors per jamb from 90 to 96 inches high.
        4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.
        5) Two anchors per head for frames above 42 inches wide and mounted in metal stud partitions.
10. Door Silencers: Except on weatherstripped or gasketed doors, drill stops to receive door silencers. Silencers to be supplied by frame manufacturer regardless if specified in Division 08 Section "Door Hardware".
11. Bituminous Coating: Where frames are fully grouted with an approved Portland Cement based grout or mortar, coat inside of frame throat with a water based bituminous or asphaltic emulsion coating to a minimum thickness of 3 mils DFT, tested in accordance with UL 10C and applied to the frame under a 3rd party independent follow-up service procedure.

E. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door

Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."

1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
2. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
4. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.

2.10 STEEL FINISHES

A. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.

1. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (strike height, hinge spacing, hinge back set, etc.).

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.

B. Prior to installation, adjust and securely brace welded hollow metal frames for square, level, twist, and plumb condition.

C. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames."

D. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.

E. Verify tolerances against manufacturers installations instructions for tornado and hurricane storm shelter openings.

3.3 INSTALLATION

A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.

B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.

1. Set frames accurately in position, plumbed, leveled, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.
4. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.

C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.

1. Non-Fire-Rated Standard Steel Doors:

a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.

2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.

D. Field Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with hollow metal manufacturer's written instructions.

3.4 ADJUSTING AND CLEANING

A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.

B. Remove grout and other bonding material from hollow metal work immediately after installation.

C. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

3.5 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

END OF SECTION 081113

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Automatic operators.
4. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “Flush Wood Doors”.
3. Division 08 Section “Fire-Rated Steel Framed Entrances”.
4. Division 08 Section “Automatic Door Operators”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. UL/ULC and CSA C22.2 - Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
8. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:

    a. Type, style, function, size, label, hand, and finish of each door hardware item.
    b. Manufacturer of each item.
    c. Fastenings and other pertinent information.
    d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    e. Explanation of abbreviations, symbols, and codes contained in schedule.
    f. Mounting locations for door hardware.
    g. Door and frame sizes and materials.
    h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
b. Complete (risers, point-to-point) access control system block wiring diagrams.
c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the

manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

2.2 BUTT HINGES

A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

a. Two Hinges: For doors with heights up to 60 inches.
b. Three Hinges: For doors with heights 61 to 90 inches.
c. Four Hinges: For doors with heights 91 to 120 inches.
d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.

5. Manufacturers:

a. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.3 DOOR OPERATING TRIM

A. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Pulls shall be provided with a 10” clearance from the finished floor on the push side to accommodate wheelchair accessibility.
5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
6. Manufacturers:

    a. Rockwood (RO).

2.4 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

1. Manufacturers:

    a. Match Existing, Field Verify.

B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Standard.

C. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. New System: Key locks to a new key system as directed by the Owner.

D. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).

3. Construction Keys (where required): Ten (10).

E. Construction Keying: Provide construction master keyed cylinders.

F. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.5 MORTISE LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) - ML2000 Series.

2.6 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.7 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. Exit devices shall have a five-year warranty.
2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as

required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

    a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

    1. Provide exit devices with functions and features as follows:

        a. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.
        b. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.
        c. No catch points: addition of applied deflectors or other added components are not allowed.
        d. No visible plastic.
        e. Heavy duty end caps with flush and overlapping options made of stainless steel, brass, or bronze with architectural finishes.
        f. Constructed of all stainless steel.
        g. Stainless steel pullman type latch with deadlock feature.
        h. Narrow or wide style exterior trim as specified in the hardware sets.
        i. Center case adjustability on concealed vertical rod exit devices; single operation with hex key individually adjusts top or bottom latches. No retainer screws or clips required to maintain adjustment.

j. Ten-year limited warranty for mechanical features.

2. Manufacturers:

a. Corbin Russwin Hardware (RU) - PED4000 / PED5000 Series.

2.8 SURFACE DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Commercial Duty): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, institutional grade door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck, closing sweep, and latch speed control valves. Provide non-handed units standard.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) - DC6000 Series.

2.9 OVERHEAD CONCEALED DOOR CLOSERS

A. Door Closers, Overhead Concealed Double Acting (Heavy Duty): Center pivot, double acting ANSI/BHMA 156.4 Grade 1 Certified Products Directory (CPD) listed overhead concealed door closers. Listed manufacturers shall meet all functions and features as specified herein.

1. Provide overhead concealed doors closers with functions and features as follows:

a. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies and A117.1 Accessibility Code.
b. Cast iron body construction with 1-1/4" dual pistons.

c. Fully concealed body in the frame head and track assembly in the door.
d. Adjustable spring strength, hydraulic back check, and two closing speed adjustments for sweep and latch.
e. Fifteen-year limited warranty.

2. Manufacturers:

a. Norton Rixson (RF) - 73 Series.

2.10 ELECTROMECHANICAL DOOR OPERATORS

A. Electromechanical Door Operators (High Traffic): Provide ANSI/BHMA A156.19 Certified Products Directory (CPD) listed low energy operators that are UL325/991 and UL10C certified and comply with requirements for the Americans with Disabilities Act (ADA). Operators shall accommodate openings up to 250 pounds and 48" wide. Provide accessories such as custom templates, special mounting brackets, spacers and drop plates as needed for proper installation. Operators shall accommodate openings up to 200 pounds and 48" wide. Listed manufacturers shall meet all functions and features as specified herein.

1. Provide operators with features as follows:

a. Non-handed with push and pull side mounting.
b. Activation by push button, hands-free or radio frequency devices.
c. Adjustable opening force and closing power.
d. Two-year limited warranty.
e. Wi-Fi interface where the operator is a secure, password protected WiFi hot spot with no connection to building's IT required.
1) Simple setup with no app required.
2) View status and make adjustments without removing the cover.
3) Built-in logic to support single use restroom applications with no external relay boards, logic modules, position switches required.
f. Mounting backplate to simplify and speed up installation.
g. Integration with access control systems.

2. Operators shall have the following functionality:

a. Adjustable Hold Open: Amount of time a door will stay in the full open position after an activation.
b. Blow Open for Smoke Ventilation: Door opens when signal is received from alarm system allowing air or smoke to flow through opening. Door will stay open until signal from alarm system is stopped.
c. Emergency Interface Relay: Door closes and ignores any activation input until signal is discontinued.
d. Infinite Hold Open: Door will hold open at set position until power is turned off.
e. Latch Assist: At closed position, after an activation, the door is pulled in. After the door has closed, the door is pulled in to assist with latch release/engagement.
f. Obstruction Detection: Door closes if it hits an obstruction while opening; door will reverse to open position if it hits an obstruction while closing. Door will stop once it hits an obstruction and will rest against the obstruction until removed.

g. Open Delay: Delays operator opening for locking hardware.
h. Outside Wall Switch Disable: When contact is closed, outside wall switch is disabled.
i. Power Assist: Senses the door is being opened manually and applies small amount of power to assist the user in opening the door with force less than 5 lbs. The door opens only as far as it is moved manually, then closes once released.
j. Power Close: Additional force to assist door closing between 7° and 2°.
k. Presence Detector Input: Input for external sensor to detect presence at door open or close position only.
l. Push & Go: As the door is manually opened, the operator "senses" movement and opens door to the full-open position.
m. Selector Mode Switch: Off disables the signal inputs unless Blow Open is activated, on activates the signal inputs, hold open activates the unit (unless Blow Closed is activated) to the hold open position.
n. Vestibule Delay: When the wall switch is pressed, first door in vestibule will open. Second door will open once vestibule door delay has expired. Delay is adjustable.
o. Executive Mode Feature: When the door receives an activation signal it opens and remains open until either a second signal is received, or the door is manually moved in closing direction.

3. Manufacturers:

a. Norton Rixson (NO) - 6300 Series.

2.11 ARCHITECTURAL TRIM AND ACCESSORIES

A. Door Protective Trim:

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1” LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16” above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer’s catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:

a. Stainless Steel: 300 grade, 050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:

a. Rockwood (RO).

2.12 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

a. Rockwood (RO).

C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:

a. Norton Rixson (RF).
b. Rockwood (RO).
c. Sargent Manufacturing (SA).

2.13 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. Pemko (PE).

2.14 ELECTRONIC ACCESSORIES

A. Key Switches: Key switches furnished standard with stainless steel single gang face plate with a 12/24VDC bi-color LED indicator. Integral backing bracket permits integration with any 1 1/4" or 1 1/2" mortise type cylinder. Key switches available as momentary or maintained action and in narrow face plate options.

1. Manufacturers:

a. Alarm Controls (AK) - MCK Series.
b. Securitron (SU) - MK Series.

2.15 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.16 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.

E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Refer to Section 080671, Door Hardware Sets, for hardware sets.

END OF SECTION 087100

SECTION 080671 – DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section references specification sections relating to commercial door hardware for the following:

1. Swinging doors.
2. Sliding Doors.
3. Other doors to the extent indicated.

B. Commercial door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical and access control door hardware.
3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
4. Automatic operators.
5. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Door Hardware”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.

D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service

representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.5 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.6 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. Refer to “PART 3 – EXECUTION” for required specification sections.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a

hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Products listed in the hardware sets shall be supplied by and in accordance with the requirements described in the specification section as noted for each item.

1. Section 08 71 00 – Door Hardware.

C. Manufacturer's Abbreviations:

1. MK - McKinney
2. RO - Rockwood
3. RU - Corbin Russwin
4. OT - Other
5. PE - Pemko

Hardware Sets

Set: 1.0

Doors: 57

6	Hinge, Full Mortise	TA2714	US26D	MK	087100
1	Flush Bolt	2845 / 2945	US26D	RO	087100
1	Dust Proof Strike	570	US26D	RO	087100
1	Storeroom Lock	ML2057 NSA LC	626	RU	087100
1	Cylinder	Match Owners Existing System		OT	
1	Coordinator	2672	US28	RO	087100
1	Surface Closer	DC6200/DC6210 (As Required)	689	RU	087100
1	Surface Closer	DC6210 A4	689	RU	087100
2	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Wall Stop	406 / 409	US32D	RO	087100
1	Astragal	S772C		PE	087100

1 Gasketing	S88BL		PE	087100

Notes:

Set: 2.0

Doors: 56A

3 Hinge, Full Mortise	TA2714	US26D	MK	087100
1 Storeroom Lock	ML2057 NSA LC	626	RU	087100
1 Cylinder	Match Owners Existing System		OT	
1 Surface Closer	DC6200/DC6210 (As Required)	689	RU	087100
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1 Wall Stop	406 / 409	US32D	RO	087100
3 Silencer	608 / 609		RO	087100

Notes:

Set: 3.0

Doors: 58

3 Hinge, Full Mortise	TA2714	US26D	MK	087100
1 Storeroom Lock	ML2057 NSA LC	626	RU	087100
1 Cylinder	Match Owners Existing System		OT	
1 Surface Closer	DC6210 A4	689	RU	087100
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1 Gasketing	S88BL		PE	087100

Notes:

Set: 4.0

Doors: 051, 052, 054

3 Hinge, Full Mortise	TA2714	US26D	MK	087100
1 Entrance Lock	ML2053 NSA LC	626	RU	087100
1 Cylinder	Match Owners Existing System		OT	
1 Wall Stop	406 / 409	US32D	RO	087100
3 Silencer	608 / 609		RO	087100

Notes:

Set: 5.0

Doors: 057A, 057B

3	Hinge, Full Mortise	TA2714	US26D	MK	087100
1	Classroom Lock	ML2055 NSA LC	626	RU	087100
1	Cylinder	Match Owners Existing System		OT	
1	Surface Closer	DC6200/DC6210 (As Required)	689	RU	087100
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Wall Stop	406 / 409	US32D	RO	087100
1	Gasketing	S88BL		PE	087100

Notes:

Set: 6.0

Doors: 053

3	Hinge, Full Mortise	TA2714	US26D	MK	087100
1	Privacy Lock	ML2060 NSA M34 V21	626	RU	087100
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Wall Stop	406 / 409	US32D	RO	087100
3	Silencer	608 / 609		RO	087100
1	Coat Hook	796	US26D	RO	087100

Notes:

END OF SECTION 080671

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Standard and custom hollow metal doors and frames.
2. Steel sidelight, borrowed lite and transom frames.
3. Louvers installed in hollow metal doors.
4. Light frames and glazing installed in hollow metal doors.

B. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 04 Section "Unit Masonry" for embedding anchors for hollow metal work into masonry construction.
3. Division 08 Section “Flush Wood Doors”.
4. Division 08 Section "Glazing" for glass view panels in hollow metal doors.
5. Division 08 Section "Door Hardware".
6. Division 09 Sections "Exterior Painting" and "Interior Painting" for field painting hollow metal doors and frames.

C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI/SDI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
2. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frames Anchors and Hardware Reinforcing.
3. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
4. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
5. ANSI/SDI A250.11 - Recommended Erection Instructions for Steel Frames.
6. ASTM A1008 - Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
7. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
8. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

9. 10. SDI-113 Standard Practice for Determining the Steady-State Thermal Transmittance of Steel Door & Frame Assemblies.
10. ASTM C 1363 - Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus.
11. ASTM C1199 - Standard Test Method for Measuring the Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods
12. ASTM E1423 - Practice for Determining Steady State Thermal Transmittance of Fenestration Systems.
13. ANSI/BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.
14. ANSI/SDI 122 - Installation and Troubleshooting Guide for Standard Steel Doors and Frames.
15. ANSI/NFPA 80 - Standard for Fire Doors and Fire Windows; National Fire Protection Association.
16. ANSI/NFPA 105: Standard for the Installation of Smoke Door Assemblies.
17. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association.
18. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
19. UL 1784 - Standard for Air Leakage Tests of Door Assemblies.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, hardware reinforcements, profiles, anchors, fire-resistance rating, and finishes.

B. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.

C. Shop Drawings: Include the following:

1. Elevations of each door design.
2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
4. Locations of reinforcement and preparations for hardware.
5. Details of anchorages, joints, field splices, and connections.
6. Details of accessories.
7. Details of moldings, removable stops, and glazing.
8. Details of conduit and preparations for power, signal, and control systems.

D. Samples for Verification:

1. Samples are only required by request of the architect and for manufacturers that are not current members of the Steel Door Institute.

1.4 QUALITY ASSURANCE

A. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.

B. Quality Standard: In addition to requirements specified, furnish SDI-Certified manufacturer products that comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".

C. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL10C (neutral pressure at 40” above sill) or UL 10C.

1. Oversize Fire-Rated Door Assemblies Construction: For units exceeding sizes of tested assemblies, attach construction label certifying doors are built to standard construction requirements for tested and labeled fire rated door assemblies except for size.
2. Temperature-Rise Limit: Where indicated and at vertical exit enclosures (stairwell openings) and exit passageways, provide doors that have a maximum transmitted temperature end point of not more than 450 deg F (250 deg C) above ambient after 30 minutes of standard fire-test exposure.
3. Smoke Control Door Assemblies: Comply with NFPA 105.

    a. Smoke "S" Label: Doors to bear “S” label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.

D. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257. Provide labeled glazing material.

E. Storm Shelter Openings: Provide complete door systems for hurricane or tornado storm shelters, and other areas of refuge, complying and tested according to ICC 500 (2014/2020), ICC/NSSA Standard for the Design and Construction of Storm Shelters.

1. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

F. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing hollow metal doors and frames and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.

B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.

C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.

1. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.7 COORDINATION

A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

B. Building Information Modeling (BIM) Support: Utilize designated BIM software tools and obtain training needed to successfully participate in the Project BIM processes. All technical disciplines are responsible for the product data integration and data reliability of their Work into the coordinated BIM applications.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.

B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide steel doors and frames from a SDI Certified manufacturer:

1. CECO Door Products (C).
2. Curries Company (CU).

2.2 MATERIALS

A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.

B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

C. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

2.3 HOLLOW METAL DOORS

A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMA 867.

B. Interior Doors: Face sheets fabricated of commercial quality cold rolled steel that complies with ASTM A 1008/A 1008M. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:

1. Design: Flush panel.
2. Core Construction: Manufacturer's standard kraft-paper honeycomb, or one-piece polystyrene core, securely bonded to both faces.

    a. Fire Door Core: As required to provide fire-protection and temperature-rise ratings indicated.

3. Level/Model: Level 2 and Physical Performance Level B (Heavy Duty), Minimum 18 gauge (0.042-inch - 1.0-mm) thick steel, Model 2.
4. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet.
5. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
6. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

C. Manufacturers Basis of Design:

1. CECO Door Products (C) Polystyrene Core - Legion Series.
2. Curries Company (CU) - Polystyrene Core - 707 Series.

2.4 HOLLOW METAL FRAMES

A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.

B. Interior Frames: Fabricated from cold-rolled steel sheet that complies with ASTM A 1008/A 1008M.

1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
2. Manufacturers Basis of Design:

    a. CECO Door Products (C) - DU Series.
    b. CECO Door Products (C) - SU Series.
    c. Curries Company (CU) - M Series.

C. Fire rated frames: Fabricate frames in accordance with NFPA 80, listed and labeled by a qualified testing agency, for fire-protection ratings indicated.

D. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 Table 4 with reinforcement plates from same material as frames.

2.5 FRAME ANCHORS

A. Jamb Anchors:

1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed from A60 metallic coated material, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
2. Stud Wall Type: Designed to engage stud and not less than 0.042 inch thick.
3. Compression Type for Drywall Slip-on (Knock-Down) Frames: Adjustable compression anchors.

B. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic coated material, not less than 0.042 inches thick.

C. Mortar Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.6 LOUVERS

A. Metal Louvers: Unless otherwise indicated provide louvers to meet the following requirements.

1. Blade Type: Vision proof inverted V or inverted Y.
2. Metal and Finish: Galvanized steel, 0.040 inch thick, factory primed for paint finish with baked enamel or powder coated finish. Match pre-finished door paint color where applicable.

B. Louvers for Fire Rated Doors: Metal louvers with fusible link and closing device, listed and labeled for use in doors with fire protection rating of 1-1/2 hours and less.

1. Manufacturers: Subject to compliance with requirements, provide louvers to meet rating indicated.
2. Metal and Finish: Galvanized steel, 0.040 inch thick, factory primed for paint finish with baked enamel or powder coated finish. Match pre-finished door paint color where applicable.

2.7 LIGHT OPENINGS AND GLAZING

A. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints at fabricator’s shop. Fixed and removable stops to allow multiple glazed lites each to be removed independently. Coordinate frame rabbet widths between fixed and removable stops with the type of glazing and installation indicated.

B. Moldings for Glazed Lites in Doors and Loose Stops for Glazed Lites in Frames: Minimum 20 gauge thick, fabricated from same material as door face sheet in which they are installed.

C. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch (16 mm) high unless otherwise indicated. Provide fixed frame moldings and stops on outside of exterior and on secure side of interior doors and frames.

D. Preformed Metal Frames for Light Openings: Manufacturer's standard frame formed of 0.048-inch-thick, cold rolled steel sheet; with baked enamel or powder coated finish; and approved for use in doors of fire protection rating indicated. Match pre-finished door paint color where applicable.

2.8 ACCESSORIES

A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.

B. Grout Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.9 FABRICATION

A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.

B. Tolerances: Fabricate hollow metal work to tolerances indicated in ANSI/SDI A250.8.

C. Hollow Metal Doors:

1. Exterior Doors: Provide optional weep-hole openings in bottom of exterior doors to permit moisture to escape where specified.
2. Glazed Lites: Factory cut openings in doors with applied trim or kits to fit. Factory install glazing where indicated.
3. Astragals: Provide overlapping astragals as noted in door hardware sets in Division 08 Section "Door Hardware" on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted.
4. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge strap for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".

D. Hollow Metal Frames:

1. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
2. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.

    a. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.

3. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
4. High Frequency Hinge Reinforcement: Provide high frequency hinge reinforcements at door openings 48-inches and wider with mortise butt type hinges at top hinge locations.
5. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge straps for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".
6. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
7. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
8. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
9. Jamb Anchors: Provide number and spacing of anchors as follows:

    a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches on-center and as follows:

        1) Two anchors per jamb up to 60 inches high.
        2) Three anchors per jamb from 60 to 90 inches high.
        3) Four anchors per jamb from 90 to 120 inches high.
        4) Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.

    b. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:

        1) Three anchors per jamb up to 60 inches high.
        2) Four anchors per jamb from 60 to 90 inches high.
        3) Five anchors per jamb from 90 to 96 inches high.
        4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.
        5) Two anchors per head for frames above 42 inches wide and mounted in metal stud partitions.
10. Door Silencers: Except on weatherstripped or gasketed doors, drill stops to receive door silencers. Silencers to be supplied by frame manufacturer regardless if specified in Division 08 Section "Door Hardware".
11. Bituminous Coating: Where frames are fully grouted with an approved Portland Cement based grout or mortar, coat inside of frame throat with a water based bituminous or asphaltic emulsion coating to a minimum thickness of 3 mils DFT, tested in accordance with UL 10C and applied to the frame under a 3rd party independent follow-up service procedure.

E. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."

    1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.

2. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
4. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.

2.10 STEEL FINISHES

A. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.

1. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (strike height, hinge spacing, hinge back set, etc.).

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.

B. Prior to installation, adjust and securely brace welded hollow metal frames for square, level, twist, and plumb condition.

C. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames."

D. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.

E. Verify tolerances against manufacturers installations instructions for tornado and hurricane storm shelter openings.

3.3 INSTALLATION

A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.

B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.

1. Set frames accurately in position, plumbed, leveled, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.
4. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.

C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.

1. Non-Fire-Rated Standard Steel Doors:

a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.

2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.

D. Field Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with hollow metal manufacturer's written instructions.

3.4 ADJUSTING AND CLEANING

A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.

B. Remove grout and other bonding material from hollow metal work immediately after installation.

C. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

3.5 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

END OF SECTION 081113

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “Flush Wood Doors”.
3. Division 08 Section “Fire-Rated Steel Framed Entrances”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:

    a. Type, style, function, size, label, hand, and finish of each door hardware item.
    b. Manufacturer of each item.
    c. Fastenings and other pertinent information.
    d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    e. Explanation of abbreviations, symbols, and codes contained in schedule.
    f. Mounting locations for door hardware.
    g. Door and frame sizes and materials.
    h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

D. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.

4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

2.2 BUTT HINGES

A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

a. Two Hinges: For doors with heights up to 60 inches.
b. Three Hinges: For doors with heights 61 to 90 inches.
c. Four Hinges: For doors with heights 91 to 120 inches.
d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.

5. Manufacturers:

a. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.3 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
5. Manufacturers:

a. Rockwood (RO).

B. Coordinators: ANSI/BHMA A156.3 door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.

1. Manufacturers:

a. Rockwood (RO).

C. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.

4. Pulls shall be provided with a 10” clearance from the finished floor on the push side to accommodate wheelchair accessibility.
5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
6. Manufacturers:

    a. Rockwood (RO).

2.4 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

1. Manufacturers:

    a. Match Existing, Field Verify.

B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Standard.

C. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. New System: Key locks to a new key system as directed by the Owner.

D. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

E. Construction Keying: Provide construction master keyed cylinders.

F. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.

2. Provide transcript list in writing or electronic file as directed by the Owner.

2.5 MORTISE LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) - ML2000 Series.

2.6 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.7 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. Exit devices shall have a five-year warranty.
2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer’s catalog and template book for specific requirements.

4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

    a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2” wide stiles.
9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:

    a. Corbin Russwin Hardware (RU) - PED4000 / PED5000 Series.

2.8 SURFACE DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Commercial Duty): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, institutional grade door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck, closing sweep, and latch speed control valves. Provide non-handed units standard.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) - DC6000 Series.

2.9 ARCHITECTURAL TRIM AND ACCESSORIES

A. Door Protective Trim:

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1” LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16” above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer’s catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:

a. Stainless Steel: 300 grade, 050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:

a. Rockwood (RO).

2.10 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where

they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

   a. Rockwood (RO).

2.11 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

   1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

   1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

   1. Pemko (PE).

2.12 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.13 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and

reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.

E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.
3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Refer to Section 080671, Door Hardware Sets, for hardware sets.

END OF SECTION 087100

SECTION 080671 – DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section references specification sections relating to commercial door hardware for the following:

1. Swinging doors.
2. Sliding Doors.
3. Other doors to the extent indicated.

B. Commercial door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical and access control door hardware.
3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
4. Automatic operators.
5. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Door Hardware”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.

D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service

representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.5 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.6 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. Refer to “PART 3 – EXECUTION” for required specification sections.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a

hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Products listed in the hardware sets shall be supplied by and in accordance with the requirements described in the specification section as noted for each item.

1. Section 08 71 00 – Door Hardware.

C. Manufacturer's Abbreviations:

1. PE - Pemko
2. RU - Corbin Russwin
3. OT - Other
4. RO - Rockwood
5. SU - Securitron

Hardware Sets

Set: 1.0

Doors: 003

1	Continuous Hinge	CFM-HD1-M		PE	087100	
1	Storeroom Lock	ML2057 NSA LC	630	RU	087100	
1	Cylinder	Match Owners Existing System		OT		
1	Surface Closer	DC8210 A4	689	RU	087100	
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1	Gasketing	2891APK TKSP8		PE	087100	
1	Rain Guard	346C TKSP8		PE	087100	
1	Door Bottom	216AFG TKSP		PE	087100	
1	Threshold	252x3AFG Pemkote MSES25SS		PE	087100	
1	Position Switch	DPS-M-BK		SU	087100	⚡
1	Wiring Diagram	- Elevation and Point to Point as		OT		

Specified

Notes: Door position switch to monitor / report open closed status of opening to security system.

Set: 2.0

Doors: 001, 002

1	Continuous Hinge	CFM-HD1-M		PE	087100
1	Dormitory Lock	ML2065 NSA M34 V11 LC	630	RU	087100
1	Cylinder	Match Owners Existing System		OT	
1	Surface Closer	DC8210 A4	689	RU	087100
1	Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1	Gasketing	2891APK TKSP8		PE	087100
1	Rain Guard	346C TKSP8		PE	087100
1	Door Bottom	216AFG TKSP		PE	087100
1	Threshold	252x3AFG Pemkote MSES25SS		PE	087100
1	Coat Hook	796	US26D	RO	087100

Notes:

END OF SECTION 080671

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Standard and custom hollow metal doors and frames.
2. Steel sidelight, borrowed lite and transom frames.
3. Louvers installed in hollow metal doors.
4. Light frames and glazing installed in hollow metal doors.

B. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 04 Section "Unit Masonry" for embedding anchors for hollow metal work into masonry construction.
3. Division 08 Section "Glazing" for glass view panels in hollow metal doors.
4. Division 08 Section "Door Hardware".
5. Division 09 Sections "Exterior Painting" and "Interior Painting" for field painting hollow metal doors and frames.

C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI/SDI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
2. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frames Anchors and Hardware Reinforcing.
3. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
4. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
5. ANSI/SDI A250.11 - Recommended Erection Instructions for Steel Frames.
6. ASTM A1008 - Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
7. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
8. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

9. 10. SDI-113 Standard Practice for Determining the Steady-State Thermal Transmittance of Steel Door & Frame Assemblies.
10. ASTM C 1363 - Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus.
11. ASTM C1199 - Standard Test Method for Measuring the Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods
12. ASTM E1423 - Practice for Determining Steady State Thermal Transmittance of Fenestration Systems.
13. ANSI/BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.
14. ANSI/SDI 122 - Installation and Troubleshooting Guide for Standard Steel Doors and Frames.
15. ANSI/NFPA 80 - Standard for Fire Doors and Fire Windows; National Fire Protection Association.
16. ANSI/NFPA 105: Standard for the Installation of Smoke Door Assemblies.
17. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association.
18. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
19. UL 1784 - Standard for Air Leakage Tests of Door Assemblies.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, hardware reinforcements, profiles, anchors, fire-resistance rating, and finishes.

B. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.

C. Shop Drawings: Include the following:

1. Elevations of each door design.
2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
4. Locations of reinforcement and preparations for hardware.
5. Details of anchorages, joints, field splices, and connections.
6. Details of accessories.
7. Details of moldings, removable stops, and glazing.
8. Details of conduit and preparations for power, signal, and control systems.

D. Samples for Verification:

1. Samples are only required by request of the architect and for manufacturers that are not current members of the Steel Door Institute.

1.4 QUALITY ASSURANCE

A. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.

B. Quality Standard: In addition to requirements specified, furnish SDI-Certified manufacturer products that comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".

C. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL10C (neutral pressure at 40” above sill) or UL 10C.

1. Oversize Fire-Rated Door Assemblies Construction: For units exceeding sizes of tested assemblies, attach construction label certifying doors are built to standard construction requirements for tested and labeled fire rated door assemblies except for size.
2. Temperature-Rise Limit: Where indicated and at vertical exit enclosures (stairwell openings) and exit passageways, provide doors that have a maximum transmitted temperature end point of not more than 450 deg F (250 deg C) above ambient after 30 minutes of standard fire-test exposure.
3. Smoke Control Door Assemblies: Comply with NFPA 105.

a. Smoke "S" Label: Doors to bear “S” label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.

D. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257. Provide labeled glazing material.

E. Storm Shelter Openings: Provide complete door systems for hurricane or tornado storm shelters, and other areas of refuge, complying and tested according to ICC 500 (2014/2020), ICC/NSSA Standard for the Design and Construction of Storm Shelters.

1. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

F. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing hollow metal doors and frames and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.

B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.

C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.

1. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.7 COORDINATION

A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

B. Building Information Modeling (BIM) Support: Utilize designated BIM software tools and obtain training needed to successfully participate in the Project BIM processes. All technical disciplines are responsible for the product data integration and data reliability of their Work into the coordinated BIM applications.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.

B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide steel doors and frames from a SDI Certified manufacturer:

1. CECO Door Products (C).
2. Curries Company (CU).

2.2 MATERIALS

A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.

B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

C. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

2.3 HOLLOW METAL DOORS

A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMA 867.

B. Exterior Doors: Face sheets fabricated of commercial quality hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:

1. Design: Flush panel.
2. Core Construction: Manufacturer's standard vertical steel-stiffener core. Minimum 22 gauge steel-stiffeners at 6 inches on-center construction attached by spot welds spaced not more than 5" on centers. Spaces between stiffeners filled with fiberglass insulation (minimum density 0.8#/cubic ft.).
3. Level/Model: Level 3 and Physical Performance Level A (Extra Heavy Duty), Minimum 16 gauge (0.053-inch - 1.3-mm) thick steel, Model 2.
4. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel to include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers are not acceptable.
5. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
6. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

C. Manufacturers Basis of Design:

1. CECO Door Products (C) Steel-Stiffened - Medallion Series.
2. Curries Company (CU) - Steel-Stiffened - 747 Series.

2.4 HOLLOW METAL FRAMES

A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.

B. Thermal Break Frames: Subject to the same compliance standards and requirements as standard hollow metal frames. Tested for thermal performance in accordance with NFRC 102, and resistance to air infiltration in accordance with NFRC 400. Where indicated provide thermally broken frame profiles available for use in both masonry and drywall construction. Fabricate with 1/16” positive thermal break and integral vinyl weatherstripping.

C. Exterior Frames: Fabricated of hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60.

1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
2. Manufacturers Basis of Design:

    a. CECO Door Products (C) - SR Series.

b. CECO Door Products (C) - Mercury 3 Thermal Break TQB Series.
c. Curries Company (CU) - Mercury 3 Thermal Break TQ Series.

D. Fire rated frames: Fabricate frames in accordance with NFPA 80, listed and labeled by a qualified testing agency, for fire-protection ratings indicated.

E. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 Table 4 with reinforcement plates from same material as frames.

2.5 FRAME ANCHORS

A. Jamb Anchors:

1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed from A60 metallic coated material, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
2. Stud Wall Type: Designed to engage stud and not less than 0.042 inch thick.
3. Compression Type for Drywall Slip-on (Knock-Down) Frames: Adjustable compression anchors.

B. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic coated material, not less than 0.042 inches thick.

C. Mortar Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.6 LOUVERS

A. Metal Louvers: Unless otherwise indicated provide louvers to meet the following requirements.

1. Blade Type: Vision proof inverted V or inverted Y.
2. Metal and Finish: Galvanized steel, 0.040 inch thick, factory primed for paint finish with baked enamel or powder coated finish. Match pre-finished door paint color where applicable.

B. Louvers for Fire Rated Doors: Metal louvers with fusible link and closing device, listed and labeled for use in doors with fire protection rating of 1-1/2 hours and less.

1. Manufacturers: Subject to compliance with requirements, provide louvers to meet rating indicated.
2. Metal and Finish: Galvanized steel, 0.040 inch thick, factory primed for paint finish with baked enamel or powder coated finish. Match pre-finished door paint color where applicable.

2.7 LIGHT OPENINGS AND GLAZING

A. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints at fabricator’s shop. Fixed and removable stops to allow multiple glazed lites each to be removed independently.

Coordinate frame rabbet widths between fixed and removable stops with the type of glazing and installation indicated.

B. Moldings for Glazed Lites in Doors and Loose Stops for Glazed Lites in Frames: Minimum 20 gauge thick, fabricated from same material as door face sheet in which they are installed.

C. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch (16 mm) high unless otherwise indicated. Provide fixed frame moldings and stops on outside of exterior and on secure side of interior doors and frames.

D. Preformed Metal Frames for Light Openings: Manufacturer's standard frame formed of 0.048-inch-thick, cold rolled steel sheet; with baked enamel or powder coated finish; and approved for use in doors of fire protection rating indicated. Match pre-finished door paint color where applicable.

2.8 ACCESSORIES

A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.

B. Grout Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.9 FABRICATION

A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.

B. Tolerances: Fabricate hollow metal work to tolerances indicated in ANSI/SDI A250.8.

C. Hollow Metal Doors:

1. Exterior Doors: Provide optional weep-hole openings in bottom of exterior doors to permit moisture to escape where specified.
2. Glazed Lites: Factory cut openings in doors with applied trim or kits to fit. Factory install glazing where indicated.
3. Astragals: Provide overlapping astragals as noted in door hardware sets in Division 08 Section "Door Hardware" on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted.
4. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge strap for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".

D. Hollow Metal Frames:

1. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.

2. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.

    a. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.

3. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
4. High Frequency Hinge Reinforcement: Provide high frequency hinge reinforcements at door openings 48-inches and wider with mortise butt type hinges at top hinge locations.
5. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge straps for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".
6. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
7. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
8. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
9. Jamb Anchors: Provide number and spacing of anchors as follows:

    a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches on-center and as follows:

        1) Two anchors per jamb up to 60 inches high.
        2) Three anchors per jamb from 60 to 90 inches high.
        3) Four anchors per jamb from 90 to 120 inches high.
        4) Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.

    b. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:

        1) Three anchors per jamb up to 60 inches high.
        2) Four anchors per jamb from 60 to 90 inches high.
        3) Five anchors per jamb from 90 to 96 inches high.
        4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.
        5) Two anchors per head for frames above 42 inches wide and mounted in metal stud partitions.
10. Door Silencers: Except on weatherstripped or gasketed doors, drill stops to receive door silencers. Silencers to be supplied by frame manufacturer regardless if specified in Division 08 Section "Door Hardware".
11. Bituminous Coating: Where frames are fully grouted with an approved Portland Cement based grout or mortar, coat inside of frame throat with a water based bituminous or asphaltic emulsion coating to a minimum thickness of 3 mils DFT, tested in accordance with UL 10C and applied to the frame under a 3rd party independent follow-up service procedure.

E. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."

1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
2. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
4. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.

2.10 STEEL FINISHES

A. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.

1. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (strike height, hinge spacing, hinge back set, etc.).

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.

B. Prior to installation, adjust and securely brace welded hollow metal frames for square, level, twist, and plumb condition.

C. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames."

D. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.

E. Verify tolerances against manufacturers installations instructions for tornado and hurricane storm shelter openings.

3.3 INSTALLATION

A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.

B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.

1. Set frames accurately in position, plumbed, leveled, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.
4. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.

C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.

1. Non-Fire-Rated Standard Steel Doors:

a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.

2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.

D. Field Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with hollow metal manufacturer's written instructions.

3.4 ADJUSTING AND CLEANING

A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.

B. Remove grout and other bonding material from hollow metal work immediately after installation.

C. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

3.5 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

END OF SECTION 081113

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:

    a. Type, style, function, size, label, hand, and finish of each door hardware item.
    b. Manufacturer of each item.
    c. Fastenings and other pertinent information.
    d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    e. Explanation of abbreviations, symbols, and codes contained in schedule.
    f. Mounting locations for door hardware.
    g. Door and frame sizes and materials.
    h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

    a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
    b. Complete (risers, point-to-point) access control system block wiring diagrams.
    c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

2.2 CONTINUOUS HINGES

A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Where specified, provide modular continuous geared hinges that ship in two or three pieces and form a single continuous hinge upon installation.
2. Manufacturers:.

    a. Pemko (PE).

2.3 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

1. Manufacturers:

    a. Match Existing, Field Verify.

B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Standard.

C. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. New System: Key locks to a new key system as directed by the Owner.

D. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

E. Construction Keying: Provide construction master keyed cylinders.

F. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.4 MORTISE LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) - ML2000 Series.

2.5 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.6 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. Exit devices shall have a five-year warranty.
2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the

proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.

4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

    a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

    1. Manufacturers:

        a. Corbin Russwin Hardware (RU) - PED4000 / PED5000 Series.

2.7 SURFACE DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

    1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
    2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
    3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
    4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

1. Large body cast iron surface mounted door closers shall have a 30-year warranty.
2. Manufacturers:

    a. Corbin Russwin Hardware (RU) - DC8000 Series.

2.8 ARCHITECTURAL TRIM AND ACCESSORIES

A. Door Protective Trim:

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1” LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16” above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer’s catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:

    a. Stainless Steel: 300 grade, 050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:

    a. Rockwood (RO).

2.9 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. Pemko (PE).

2.10 ELECTRONIC ACCESSORIES

A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.

1. Manufacturers:

a. Alarm Controls (AK) - CP1-1026 Series.
b. Securitron (SU) - DPS Series.

2.11 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.12 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and

reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.

E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.
3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Refer to Section 080671, Door Hardware Sets, for hardware sets.

END OF SECTION 087100

NORTHERN
Analytical Services, LLC.
ENVIRONMENTAL CONSULTANTS

Asbestos Containing Building Material Survey of Oscoda High School

Prepared for:

Oscoda Area Schools
3550 East River Road
Oscoda, Michigan 48750

Completed by:

Northern Analytical Services, LLC.
PO Box 1604
Big Rapids, Michigan 49307

Project No.: 230148
Report Date: November 5, 2023

14870 225th Ave., Big Rapids, Michigan 49307
Phone : 231-268-0004 Fax : 866-214-4739 Web : www.northernas.com

Asbestos Containing Building Material Survey Report of Oscoda High School

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Executive Summary

Oscoda Area Schools retained Northern Analytical Services, LLC. (NAS) to conduct a survey of the school building identified below to determine the presence, location, and quantity of suspect asbestos containing building materials. Building information is as follows:

Oscoda High School
Approximate Size: 152,000 square feet
Number of Levels: 1
Year Constructed: Unknown
Number of Additions: 1
Date(s) of Inspection: 8/8/2023
Inspector's Name: Parker Denike
Inspector's Accreditation Number: A60087

This survey was completed in accordance with asbestos building inspection procedures defined in 40 CFR, Chapter 1, Part 61-National Emission Standards for Hazardous Air Pollutants (NESHAP), 1926.1101-Asbestos Standards for Construction, and 1910.1001-Asbestos Standards for General Industry. Although survey procedures were performed in accordance with the Asbestos Hazard Emergency Response Act (AHERA), this report does not satisfy all AHERA requirements; a management plan with response actions must be completed.

The suspect asbestos containing materials (SACM) that were identified during this survey were either tested for asbestos content or assumed to contain asbestos. This survey did not include identification of stored chemicals.

Due to the age of the building, all paint and coatings, including ceramic tile glazing, are assumed to contain lead, cadmium and chromium.

All refrigeration devices such as air conditioners, drinking fountains, coolers, and refrigerators likely contain refrigerant gas/liquid. Refrigerants should be removed from the unit by a licensed technician prior to opening any of the interior components that would otherwise release the refrigerant into the atmosphere.

Fluorescent lights have bulbs that likely contain mercury and should not be broken during handling. These light bulbs should be disposed of as mercury containing or recycled after they burn out.

Fluorescent lights also have electrical ballasts that may contain PCBs. Ballasts that were manufactured after 1979 were legally required to be free of PCBs and were required to indicate this on the label. Ballasts that do not have a "PCB Free" label must be assumed to contain PCBs.

Other pre-1979 building materials that may contain PCBs include electrical transformers, elevator pumps, and automatic door closers. Any of these components, if present, should either be tested or assumed to contain PCBs. Those components that are either known or assumed to contain PCBs should be removed if leaking or removed prior to a building renovation or demolition project.

A summary of our findings is provided in the next section of this report. A more detailed description of the SACMs identified during this survey is provided in the section titled Material Report. Also attached are sections titled Inspection Report and Sample Location Report. The Inspection Report will show what SACMs were found in each room and the Sample Location Report will describe where bulk samples were collected.

Materials found to contain asbestos or that are assumed to contain asbestos should be maintained in good condition through a detailed operations and maintenance program. Those ACMs that would otherwise be damaged or disturbed during a planned renovation or maintenance activity should be remediated by properly trained personnel.

Oscoda Area Schools
Oscoda High School
Asbestos Containing Building Material Survey Report
Project No.: 230148
Report Date: November 5, 2023

Findings

The following table provides a summary of the materials identified during this survey:

Oscoda High School

Material Number	Homogeneous Material Description	Asbestos Detected	Percent Asbestos	Asbestos Type
1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	CH-40%, A-5%	Amosite
2	Duct Work Insulation - Jacket Insulation	Yes	60%	Chrysotile
3	Pipe Insulation - Roof Drain	Yes	CH-20%, A-5%	Amosite
4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	T-2%, G-ND	Amosite
5	Transite - Siding	Yes	---	Assumed
6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	T-3%, M-4%	Chrysotile
7	Vibration Dampener Cloth - White	Yes	40%	Chrysotile
8	Fume Hood -	Yes	---	Assumed
9	Fire Brick -	Yes	---	Assumed
10	Fire Rated Door -	Yes	---	Assumed
11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	---	None Detected
12	Laboratory Counter Top -	Yes	---	Assumed
13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Yes	5%	Chrysotile
14	Caulk - On Exterior Steel Sidelight, Grey, Brittle	Yes	5%	Chrysotile
15	Glazing - On Exterior Steel Sidelight, Grey, Brittle	Yes	5%	Chrysotile
16	Texture - Above Door Frame, White, Bumpy	Yes	3%	Chrysotile
17	Glazing - Door With Dual 2ft x 4ft Windows	Yes	5%	Chrysotile
18	Caulk - On Concrete Frame, Grey Pliable	No	---	None Detected
19	Glazing - On Door with 2ft x 5ft Window	Yes	2%	Chrysotile
20	Caulk - On Exterior Steel Transom, Grey, Brittle	Yes	5%	Chrysotile
21	Cove Base - 4in Grey	No	---	None Detected
22	Cove Base - 4in Light Blue	No	---	None Detected
23	Ceramic Block & Grout - 18in x 4in Grey	Yes	---	Assumed
24	Drywall & Joint Compound -	No	---	None Detected
25	Glue - Assumed Behind Visual Display Board	Yes	---	Assumed
26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	---	Assumed
27	Wood Door - Solid Wood	Yes	---	Assumed
28	Glazing - On Interior Steel Storefront Frame	Yes	2%	Chrysotile
29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	T-4%, M-7%	Chrysotile
30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	2%	Chrysotile
31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	T-4%, M-5%	Chrysotile
32	Ceramic Tile - 4in x 4in White	Yes	---	Assumed
33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	---	Assumed
34	No Access - No Access	Yes	---	Assumed
35	Cove Base - 4in Black	No	---	None Detected
36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	---	Assumed
37	Caulk - On Bathroom Stalls	No	---	None Detected
38	Caulk - Expansion Joint, Grey Brittle	Yes	2%	Chrysotile
39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	---	None Detected
40	Caulk - On Interior Steel Storefront Frame	Yes	2%	Chrysotile
41	Tank Insulation - White	Yes	CH-20%, A-25%	Amosite
42	Glue - Black, Behind Fiberglass/Jacket Insulation	Yes	5%	Chrysotile
43	Caulk - Brown, Brittle, Duct Work Caulk	Yes	2%	Chrysotile
44	Miscellaneous - Assumed Water Gaskets	Yes	---	Assumed
45	Miscellaneous - Black Tar on Tunnel Wall	Yes	5%	Chrysotile
46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Yes	T-3%, M-5%	Chrysotile
47	Sink Undercoating - Pink	No	---	None Detected
48	Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic	Yes	T-ND, M-4-7%	Chrysotile
49	Flooring - Terrazzo, Yellowish Tan	No	---	None Detected
50	Flooring Layer Assumed Under Surface Layer -	Yes	---	Assumed
51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	Yes	3%	Chrysotile
52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	No	---	None Detected

Oscoda Area Schools
Oscoda High School
Asbestos Containing Building Material Survey Report
Project No.: 230148
Report Date: November 5, 2023

Material Number	Homogeneous Material Description	Asbestos Detected	Percent Asbestos	Asbestos Type
53	Miscellaneous - Tack Board	Yes	---	Assumed
54	Light Backing - Silver	Yes	85%	Chrysotile
55	Caulk - On Interior Steel Sidelight Frame	Yes	2%	Chrysotile
56	Glazing - On Interior Steel Sidelight Frame	Yes	2%	Chrysotile
57	Sink Undercoating - Black	Yes	7%	Chrysotile
58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	No	---	None Detected
59	Plaster - Smooth	No	---	None Detected
60	Floor Tile & Mastic - 12in x 12 in White with Grey and Silver Streaks and Blotches	Yes	T-ND, M-4-7%	Chrysotile
61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	---	None Detected
62	Sink Undercoating - White	No	---	None Detected
63	Caulk - On Interior Steel Window Frame	Yes	3%	Chrysotile
64	Glazing - On Interior Steel Window Frame	Yes	5%	Chrysotile
65	Ceramic Tile & Grout - 2ft x 1ft Grey Sandstone Appearance	Yes	---	Assumed
66	Acoustical Ceiling - White with Fluffy/Flakey Texture	No	---	None Detected
67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	7%	Chrysotile
68	Floor Tile & Mastic - 12in x 12 in White with Purple, Dark Blue, and Grey Spots	No	---	None Detected
69	Floor Tile & Mastic - Grey with Dark Grey and White Streaks	No	---	None Detected
70	Acoustical Ceiling - White, Bumpy and Rough Texture	No	---	None Detected
71	Miscellaneous - Safe Door	Yes	---	Assumed
72	Miscellaneous - Fire Resistant File Cabinet	Yes	---	Assumed
73	Ceramic Tile & Grout - 1ft x 1ft Grey with White and Black Spots	Yes	---	Assumed
74	Ceramic Tile & Grout - 4in x 4in Green with White Flecks/Spots	Yes	---	Assumed
75	Ceramic Block & Grout - 12in x 4in White	Yes	---	Assumed
76	Tar, Felt & Associated Mastic Layers Under Wood Floor - Wood Stands	Yes	---	Assumed
77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	No	---	None Detected
78	Cement Board - Green With Holes	Yes	15%	Chrysotile
79	Miscellaneous - Black Tar on Fiberglass Mats	No	---	None Detected
80	Flooring-Carpet Glue - Yellow	No	---	None Detected
81	Tar, Felt & Associated Mastic Layers Under Wood Floor -	Yes	---	Assumed
82	Curtain - Black, Stage	No	---	None Detected
83	Curtain - Blue, Stage	No	---	None Detected
84	Ceramic Tile & Grout - 2in x 2in Tan	No	---	None Detected
85	Caulk - On Exterior Aluminum Storefront Frame	Yes	2%	Chrysotile
86	Glazing - On Exterior Aluminum Storefront Frame	Yes	2%	Chrysotile
87	Ceramic Tile & Grout - 1in x 1in Light Brown	Yes	---	Assumed
88	Floor Tile & Mastic - 12in x 12in White and Blue, Light Blue Flecks	No	---	None Detected
89	Ceramic Tile & Grout - 1in x 1in Green and Teal with White Spots	Yes	---	Assumed
90	Vinyl Sheet Flooring - Blue	No	---	None Detected
91	Glazing - On Trophy Case, Brown/Grey, Brittle	Yes	2%	Chrysotile
92	Caulk - On Interior Aluminum Door Frame, Hard, Grey	Yes	3%	Chrysotile
93	Vibration Dampener Cloth - Black	No	---	None Detected
94	Caulk - Grey Ductwork	No	---	None Detected
95	Miscellaneous - Rope Gasket - Hurst Boiler	Yes	---	Assumed
96	Boiler Material (inside) - 2009 Hurst Boilers, 5ft x 10ft x 5ft.	Yes	---	Assumed
97	Boiler Material (inside) - Steam-Pak 1960, 6ft x 18ft x 6ft	Yes	---	Assumed
98	Boiler Insulation - Interior Jacketing - Steam Pak Boiler	No	---	None Detected
99	Boiler Insulation - Interior Jacketing - Hurst Boiler	No	---	None Detected
100	Pipe Insulation - Fiberglass	No	---	None Detected
101	Miscellaneous - Fire Hose	Yes	---	Assumed
102	Miscellaneous - Rope Gasket, Spools	Yes	---	Assumed
103	Glazing - On Exterior Aluminum Window Frame	Yes	2%	Chrysotile
104	Miscellaneous - Brick and Mortar, Original Building	No	---	None Detected
105	Caulk - Exterior Louver	Yes	5%	Chrysotile
106	Texture - On Exterior Transite Panels	Yes	---	Assumed
107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	No	---	None Detected
108	Cove Base - 4in Light Blue	No	---	None Detected
109	Floor Tile & Mastic - Assumed Under Cabinets	Yes	---	Assumed
110	Ceramic Tile & Grout - 4in x 6in Grey with Black Dots	Yes	---	Assumed

Material Number	Homogeneous Material Description	Asbestos Detected	Percent Asbestos	Asbestos Type
111	Laboratory Counter Top - Black	Yes	---	Assumed
112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	---	Assumed
113	Glue - Assumed Behind Visual Display Board	Yes	---	Assumed
114	Caulk - On Interior Steel Door Frame	No	---	None Detected
115	Fire Rated Door -	Yes	---	Assumed
116	Caulk - On Exterior Steel Door Frame	No	---	None Detected
117	Wood Door -	Yes	---	Assumed
118	Vibration Dampener Cloth - Black	No	---	None Detected
119	Caulk - On Exterior Wood Window Frame	No	---	None Detected
120	No Access -	Yes	---	Assumed
121	Ceiling Tile - 2ft x 4ft White with Random Size Pinholes	No	---	None Detected
122	Sink Undercoating - White	No	---	None Detected
123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	Yes	---	Assumed
124	Cove Base - 4in Black	No	---	None Detected
125	Caulk - Expansion Joint	No	---	None Detected
126	Caulk - Interior Steel Window Frame	No	---	None Detected
127	Caulk - Grey, Ductwork	No	---	None Detected
128	Ceramic Tile & Grout - 2in x 2in Tan	Yes	---	Assumed
129	Plaster - White with Rough Bumpy Texture	No	---	None Detected
130	Brick & Mortar - Addition 1	No	---	None Detected
131	Texture - On Soffits, Addition 1	No	---	None Detected
132	Ceramic Tile & Grout - 12in x 12in Tan	Yes	---	Assumed
133	Ceramic Tile & Grout - 1in x 1in Light Blue	Yes	---	Assumed

Although NAS has provided estimated quantities and locations for each of the materials we found to contain asbestos, it should be noted that materials fitting the above descriptions should be treated as asbestos containing if found elsewhere in the building. Additionally, any material not described in the attached Material Report should be assumed to contain asbestos until testing proves otherwise.

Asbestos Background

The United States Environmental Protection Agency (USEPA) and the State of Michigan both define asbestos containing materials (ACM) as those materials that are found to contain more than 1% asbestos (Chrysotile, Amosite, Tremolite, Crocidolite, Anthophyllite, or Actinolite). ACMs are classified into one of three categories which include: Thermal System Insulation, Surfacing materials, and Miscellaneous Materials. ACMs are further divided as either friable or non-friable; friable materials are those that can be crushed, crumbled, or pulverized with hand pressure when dry.

According to the National Emissions Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Part 61) friable ACM or non-friable ACMs that will likely become friable during renovation/demolition activities must be properly removed prior to the material being disturbed.

The Michigan Department of Licensing and Economic Opportunity (MDLEO) requires asbestos abatement activities be conducted by licensed asbestos abatement contractors and that the work be conducted by accredited Asbestos Workers (32-hour minimum) and overseen by an accredited Asbestos Contractor Supervisor (40-hour) for all materials found to contain more than 1% asbestos. Should non-friable ACMs be left in place for demolition, MDLEO regulations would

require the demolition work be conducted by a licensed asbestos abatement contractor with properly accredited workers.

Materials that contain 1% or less asbestos fiber as determined through point count analysis can be removed by properly trained individuals; MDLEO does not require asbestos worker accreditation for this type of work. Air monitoring, respiratory protection and training are required.

Survey Procedures

NAS accredited Asbestos Building Inspector visited the site to perform the survey work. The areas included in the survey were visually and physically inspected for suspect asbestos containing materials. The attached drawing shows the areas that were included in this survey. During the survey the building was divided into functional spaces (FS) that represent a particular use area or room. Each FS was provided a unique room number or name and surveyed for the presence and quantity of SACMs. Functional spaces that appear on the attached drawing that are not labeled with a room number or name have not been included in this survey and must be inspected by NAS prior to performing any work that would otherwise disturb any of the materials present.

Once identified, each SACM was assigned a unique identifying number, called a material number, and provided a written description (material description). Each material was then categorized as thermal, surfacing, or miscellaneous; then quantified and classified as either friable or non-friable. Please keep in mind that materials classified as non-friable at the time of the survey may become friable overtime or during renovation/demolition activities; plaster and drywall are examples of non-friable materials that will likely become friable during renovation or demolition.

Identified SACMs were then either sampled for the presence of asbestos or assumed to contain asbestos.

Samples from each identified material were collected in random locations. A unique sample number was assigned to each sample collected to link it to the corresponding material. Sample numbers begin with the material number, and then two figures starting with 01 were added to the end. For example, sample number 101 was collected from material number 1. If additional samples were collected from the same material, sample numbers increased consecutively, therefore sample numbers 101, 102, 103 would all be from material number 1.

The number of samples collected from each material was determined by regulatory requirements and the Inspector's findings. Regulatory requirements for each of the three material classifications are as follows:

- Friable surfacing materials require either 3, 5, or 7 samples depending on the amount of material present. (3 for <1,000 sq.ft., 5 for 1,000 to 5,000 sq.ft., and 7 for >5,000 sq.ft.)
- Thermal system insulation requires a minimum of 3 samples.
- Miscellaneous and non-friable materials require a minimum of 2 samples.

Once collected, samples were properly packaged and shipped via United Parcel Service to an independent, properly accredited laboratory for analysis. Analytical results have been included at the end of the Survey Report section.

A description of each of the suspect materials identified during this survey is attached to this report in a section titled Material Report. Also attached are sections titled Inspection Report and Sample Location Report. The Inspection Report will show what suspect materials were found in each room/area and the Sample Location Report will describe where bulk samples were collected.

Prior to disturbing any of the materials found in these buildings, one should carefully match each building material that is going to be disturbed with the materials listed in this report, should a material be discovered that is not clearly identified in this report, that material should be assumed to contain asbestos until testing can be performed. Materials not described in this report have not been tested for asbestos and should be treated as asbestos containing until testing can prove otherwise.

The materials that are either known or assumed to contain asbestos should not be disturbed except by an accredited abatement contractor during the removal process.

The Material Report also identifies which materials are currently considered to be Regulated Asbestos Containing Materials (RACM) by the MDEGLE and the US EPA. According to these agencies, RACMs are asbestos containing materials that are either friable or will likely become friable with the forces expected to be acted upon them. Materials that are currently RACM or would likely become RACM if otherwise left in place must be properly removed by an accredited asbestos abatement contractor prior to the renovation or demolition work being performed. Please note NAS made the RACM determination for each ACM described in this report based on its current condition; future renovations were not considered in this determination. Materials not listed as RACM in this report could become RACM; an accredited Asbestos Contractor Supervisor must determine which materials will become RACM during the course of any renovation or demolition activity.

Limitations

- NAS made a reasonable attempt to investigate all spaces within the building covered under this report. Destructive inspection measures however were not performed, and it is likely that hidden layers or cavities were not identified by our inspector. The Client Responsibilities section of this report must be reviewed, and each listed action performed to help prevent asbestos exposure.

- The roofing was not inspected or sampled to avoid causing roof leaks. Roofing materials should be inspected and sampled by an accredited asbestos inspector prior to the start of any renovation or demolition work.

- Flooring assumed under surface layer was automatically listed in each space where other layers of flooring were present. Our inspector looked under the surface layer of flooring where feasible and noted their findings in the comment section of the Inspection Report. Since we were unable to thoroughly inspect all areas, we assumed these materials to be present. Any additional layers of flooring discovered should be presumed to contain asbestos until testing can prove otherwise.

- Mudded pipe insulation/fittings were assumed to be located inside wall/ceiling cavities. We recommend these areas be more thoroughly inspected by an accredited asbestos building inspector prior to the start of any renovation/demolition work.

- Boilers were operational at time of survey and therefore were not sampled. We recommend that the boilers either be tested by an accredited asbestos inspector just prior to the start of any renovation or demolition work or assumed to contain asbestos and removed as such.

- Fire rated doors were not sampled to avoid damaging the material and losing its fire rating.

- Materials that are assumed to contain asbestos were not sampled to avoid damaging the material.

Client Responsibilities

NAS believes the following actions are required to be carried out by our Client to prevent unnecessary exposure to asbestos:

- Review this report in its entirety and provide a signature on the Client Section of the included Signature Page.

- All materials that are assumed to contain asbestos or assumed to be present must be tested prior to the start of any renovation or demolition work.

- If our Client is not the building owner or manager, our Client shall share this report with the building owner and manager.

- Provide written notification to all building occupants, including tenants, employees, contractors, vendors, or visitors, of the presence, location, and quantity of ACM or PACM at this site.

- Ensure all known or assumed friable ACM or RACM is properly labeled with the following information:

DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
DO NOT BREATHE DUST
AVOID CREATING DUST

- Ensure all building occupants, who are likely to impact these materials, have received at least 2 hours of awareness training that is specific to this site and in accordance with the Michigan Construction Safety and Health Standards, including, but not limited to: Parts 602-Asbetos in Construction, 603-Lead Exposure in Construction, 604-Chromium (VI) in Construction, 609-Cadmium in Construction, and 690-Silica in Construction.

  A recommended Awareness Training Certification and Acknowledgement is attached to this report and should be signed by all building occupants who are likely to work in close proximity of materials that are either known or are assumed to contain asbestos.

- If destructive testing measures were not used by NAS during the asbestos survey (see limitation), contract NAS to further inspect areas where renovation or demolition work is to take place using destructive testing measures to better inspect covered layers or inaccessible cavities for potentially hidden suspect materials before any materials are disturbed at this site.

- Contract with NAS to prepare a written asbestos abatement work plan prior to disturbing any building materials at this site. The work plan must be prepared by a State of Michigan accredited Asbestos Project Designer in accordance with 40 CFR Part 763.

- Contract a State of Michigan licensed Asbestos Abatement Contractor to properly abate all materials that are either known or assumed to contain asbestos before the disturbance of said material occurs.

- Ensure the asbestos abatement contractor and/or demolition contractor file the required 10-day permits with MDLEO and MDEGLE prior to disturbing any friable ACM, any RACM, or demolition of a load bearing structure. Demolition contractors are required to file this permit with MDEGLE even if no asbestos is present.

- Contract NAS to perform third party perimeter air monitoring and post abatement clearance testing for all abatement activities.

- Contract a State of Michigan licensed Asbestos Abatement Contractor to oversee all building demolition activities with an accredited 40-hour Asbestos Abatement Contractor Supervisor.

- Immediately stop all site work if a material is discovered that does not clearly match the materials identified in this report and contact NAS for testing; assume newly identified materials contains asbestos until laboratory testing can prove otherwise.

Signature Page

Building Inspector
The person listed below herby attest that he/she/they did inspect, assess and perform sampling of suspect asbestos containing materials at Oscoda High School.

Name	Accreditation Number	Signature	Date
Parker Denike	A60087		11/5/2023

Client
The person listed below herby attests that he/she/they have read this report in its entirety and understands the information provided. Furthermore, they agree that all the items listed under Client Responsibilities must be carried out by the Client and releases Northern Analytical Services, LLC. and their employees of any liability associated with this should the Client not complete every item.

Client Name: Oscoda Area Schools
Client Address: 3550 East River Road, Oscoda, Michigan 48750

Client Authorized Agent Name	Signature	Date

This report is not valid unless all the above signatures are present.

Survey Data

Material Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
Oscoda, MI 48750
Printed: November 5, 2023

Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Thermal	Yes	Yes	Yes	CH-40%, A-5%	Amosite	1502	Ln.Ft.
2	Duct Work Insulation - Jacket Insulation	Thermal	Yes	Yes	Yes	60%	Chrysotile	1700	Sq.Ft.
3	Pipe Insulation - Roof Drain	Thermal	Yes	Yes	Yes	CH-20%, A-5%	Amosite	2	Ln.Ft.
4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Surfacing	Yes	Yes	Yes	T-2%, G-ND	Amosite	72290	Sq.Ft.
5	Transite - Siding	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	981	Sq.Ft.
6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-3%, M-4%	Chrysotile	8425	Sq.Ft.
7	Vibration Dampener Cloth - White	Misc.	Category II Non-Friable	Yes	Yes	40%	Chrysotile	15	Sq.Ft.
8	Fume Hood -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	40	Sq.Ft.
9	Fire Brick -	Thermal	Category II Non-Friable	Yes	Yes	---	Assumed	30	Sq.Ft.
10	Fire Rated Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	38	Each
11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	Misc.	No	No	No	---	None Detected	31	Sq.Ft.
12	Laboratory Counter Top -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	280	Sq.Ft.
13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	9	Sq.Ft.
14	Caulk - On Exterior Steel Sidelight, Grey, Brittle	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	0	Sq.Ft.
15	Glazing - On Exterior Steel Sidelight, Grey, Brittle	Misc.	Category II Non-Friable	Yes	Yes	5%	Chrysotile	0	Sq.Ft.

** Non-Friable materials may become friable when damaged.*
*** May become regulated asbestos containing material (RACM) when damaged.*

Misc. = miscelleaneous material
Surfacing = surfacing material
Thermal = thermal system insulation
RACM = regulated asbestos containing material

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
Oscoda, MI 48750

Printed: November 5, 2023

Material Report

Material Number	Homogeneous Material Description	Category	Friability*	RACM**	Asbestos Detected	Percent Asbestos	Asbestos Type	Quantity	Units
16	Texture - Above Door Frame, White, Bumpy	Surfacing	Category II Non-Friable	Yes	Yes	3%	Chrysotile	0	Sq.Ft.
17	Glazing - Door With Dual 2ft x 4ft Windows	Misc.	Category II Non-Friable	Yes	Yes	5%	Chrysotile	4	Sq.Ft.
18	Caulk - On Concrete Frame, Grey Pliable	Misc.	No	No	No	---	None Detected	9	Sq.Ft.
19	Glazing - On Door with 2ft x 5ft Window	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	0	Sq.Ft.
20	Caulk - On Exterior Steel Transom, Grey, Brittle	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	0	Sq.Ft.
21	Cove Base - 4in Grey	Misc.	No	No	No	---	None Detected	105	Sq.Ft.
22	Cove Base - 4in Light Blue	Misc.	No	No	No	---	None Detected	80	Sq.Ft.
23	Ceramic Block & Grout - 18in x 4in Grey	Misc.	Category II Non-Friable	No	Yes	---	Assumed	730	Sq.Ft.
24	Drywall & Joint Compound -	Misc.	No	No	No	---	None Detected	58395	Sq.Ft.
25	Glue - Assumed Behind Visual Display Board	Misc.	Category II Non-Friable	No	Yes	---	Assumed	11514	Sq.Ft.
26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Misc.	Category I Non-Friable	No	Yes	---	Assumed	2895	Sq.Ft.
27	Wood Door - Solid Wood	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	156	Sq.Ft.
28	Glazing - On Interior Steel Storefront Frame	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	3	Sq.Ft.
29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-4%, M-7%	Chrysotile	14890	Sq.Ft.
30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	158	Sq.Ft.

** Non-Friable materials may become friable when damaged.*
*** May become regulated asbestos containing material (RACM) when damaged.*

Misc. = miscelleaneous material
Surfacing = surfacing material
Thermal = thermal system insulation
RACM = regulated asbestos containing material

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
Oscoda, MI 48750

Printed: November 5, 2023

Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-4%, M-5%	Chrysotile	6250	Sq.Ft.
32	Ceramic Tile - 4in x 4in White	Misc.	Category II Non-Friable	No	Yes	---	Assumed	1980	Sq.Ft.
33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Thermal	Yes	Yes	Yes	---	Assumed	2795	Ln.Ft.
34	No Access - No Access	Misc.	Yes	Yes	Yes	---	Assumed	0	Each
35	Cove Base - 4in Black	Misc.	No	No	No	---	None Detected	390	Sq.Ft.
36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Misc.	Category II Non-Friable	No	Yes	---	Assumed	2060	Sq.Ft.
37	Caulk - On Bathroom Stalls	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
38	Caulk - Expansion Joint, Grey Brittle	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	8	Sq.Ft.
39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	Misc.	Yes	No	No	---	None Detected	17390	Sq.Ft.
40	Caulk - On Interior Steel Storefront Frame	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	4	Sq.Ft.
41	Tank Insulation - White	Thermal	Yes	Yes	Yes	CH-20%, A-25%	Amosite	533	Sq.Ft.
42	Glue - Black, Behind Fiberglass/Jacket Insulation	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	300	Sq.Ft.
43	Caulk - Brown, Brittle, Duct Work Caulk	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	700	Sq.Ft.
44	Miscellaneous - Assumed Water Gaskets	Misc.	Category II Non-Friable	No	Yes	---	Assumed	306	Sq.Ft.
45	Miscellaneous - Black Tar on Tunnel Wall	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	175	Sq.Ft.

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46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-3%, M-5%	Chrysotile	3365	Sq.Ft.
47	Sink Undercoating - Pink	Surfacing	No	No	No	---	None Detected	1	Sq.Ft.
48	Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-ND, M-4-7%	Chrysotile	2635	Sq.Ft.
49	Flooring - Terrazzo, Yellowish Tan	Misc.	No	No	No	---	None Detected	3900	Sq.Ft.
50	Flooring Layer Assumed Under Surface Layer -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	9165	Sq.Ft.
51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	Misc.	Category II Non-Friable	No	Yes	3%	Chrysotile	3	Sq.Ft.
52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	Misc.	No	No	No	---	None Detected	425	Sq.Ft.
53	Miscellaneous - Tack Board	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	229	Sq.Ft.
54	Light Backing - Silver	Misc.	Yes	Yes	Yes	85%	Chrysotile	26	Sq.Ft.
55	Caulk - On Interior Steel Sidelight Frame	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	66	Sq.Ft.
56	Glazing - On Interior Steel Sidelight Frame	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	5	Sq.Ft.
57	Sink Undercoating - Black	Surfacing	Category II Non-Friable	No	Yes	7%	Chrysotile	2	Sq.Ft.
58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	Misc.	No	No	No	---	None Detected	3595	Sq.Ft.
59	Plaster - Smooth	Surfacing	Yes	No	No	---	None Detected	20055	Sq.Ft.
60	Floor Tile & Mastic - 12in x 12 in White with Grey and Silver Streaks and Blotches	Misc.	Category I Non-Friable	No	Yes	T-ND, M-4-7%	Chrysotile	100	Sq.Ft.

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61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	Misc.	Yes	No	No	---	None Detected	6185	Sq.Ft.
62	Sink Undercoating - White	Surfacing	No	No	No	---	None Detected	7	Sq.Ft.
63	Caulk - On Interior Steel Window Frame	Misc.	Category II Non-Friable	No	Yes	3%	Chrysotile	7	Sq.Ft.
64	Glazing - On Interior Steel Window Frame	Misc.	Category II Non-Friable	Yes	Yes	5%	Chrysotile	6	Sq.Ft.
65	Ceramic Tile & Grout - 2ft x 1ft Grey Sandstone Appearance	Misc.	Category II Non-Friable	No	Yes	---	Assumed	216	Sq.Ft.
66	Acoustical Ceiling - White with Fluffy/Flakey Texture	Surfacing	Yes	No	No	---	None Detected	600	Sq.Ft.
67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Misc.	Category II Non-Friable	No	Yes	7%	Chrysotile	70	Sq.Ft.
68	Floor Tile & Mastic - 12in x 12 in White with Purple, Dark Blue, and Grey Spots	Misc.	No	No	No	---	None Detected	150	Sq.Ft.
69	Floor Tile & Mastic - Grey with Dark Grey and White Streaks	Misc.	No	No	No	---	None Detected	150	Sq.Ft.
70	Acoustical Ceiling - White, Bumpy and Rough Texture	Surfacing	Yes	No	No	---	None Detected	12470	Sq.Ft.
71	Miscellaneous - Safe Door	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	1	Sq.Ft.
72	Miscellaneous - Fire Resistant File Cabinet	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	2	Sq.Ft.
73	Ceramic Tile & Grout - 1ft x 1ft Grey with White and Black Spots	Misc.	Category II Non-Friable	No	Yes	---	Assumed	900	Sq.Ft.
74	Ceramic Tile & Grout - 4in x 4in Green with White Flecks/Spots	Misc.	Category II Non-Friable	No	Yes	---	Assumed	1100	Sq.Ft.
75	Ceramic Block & Grout - 12in x 4in White	Misc.	Category II Non-Friable	No	Yes	---	Assumed	8770	Sq.Ft.

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Material Number	Homogeneous Material Description	Category	Friability*	RACM**	Asbestos Detected	Percent Asbestos	Asbestos Type	Quantity	Units
76	Tar, Felt & Associated Mastic Layers Under Wood Floor - Wood Stands	Misc.	Category I Non-Friable	No	Yes	---	Assumed	600	Sq.Ft.
77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	Misc.	No	No	No	---	None Detected	9	Sq.Ft.
78	Cement Board - Green With Holes	Misc.	Category II Non-Friable	Yes	Yes	15%	Chrysotile	3700	Sq.Ft.
79	Miscellaneous - Black Tar on Fiberglass Mats	Misc.	No	No	No	---	None Detected	13700	Sq.Ft.
80	Flooring-Carpet Glue - Yellow	Misc.	No	No	No	---	None Detected	2330	Sq.Ft.
81	Tar, Felt & Associated Mastic Layers Under Wood Floor -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	13500	Sq.Ft.
82	Curtain - Black, Stage	Misc.	No	No	No	---	None Detected	2000	Sq.Ft.
83	Curtain - Blue, Stage	Misc.	No	No	No	---	None Detected	1000	Sq.Ft.
84	Ceramic Tile & Grout - 2in x 2in Tan	Misc.	No	No	No	---	None Detected	125	Sq.Ft.
85	Caulk - On Exterior Aluminum Storefront Frame	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	4	Sq.Ft.
86	Glazing - On Exterior Aluminum Storefront Frame	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	3	Sq.Ft.
87	Ceramic Tile & Grout - 1in x 1in Light Brown	Misc.	Category II Non-Friable	No	Yes	---	Assumed	585	Sq.Ft.
88	Floor Tile & Mastic - 12in x 12in White and Blue, Light Blue Flecks	Misc.	No	No	No	---	None Detected	3060	Sq.Ft.
89	Ceramic Tile & Grout - 1in x 1in Green and Teal with White Spots	Misc.	Category II Non-Friable	No	Yes	---	Assumed	9035	Sq.Ft.
90	Vinyl Sheet Flooring - Blue	Misc.	No	No	No	---	None Detected	830	Sq.Ft.

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91	Glazing - On Trophy Case, Brown/Grey, Brittle	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	4	Sq.Ft.
92	Caulk - On Interior Aluminum Door Frame, Hard, Grey	Misc.	Category II Non-Friable	No	Yes	3%	Chrysotile	2	Sq.Ft.
93	Vibration Dampener Cloth - Black	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
94	Caulk - Grey Ductwork	Misc.	No	No	No	---	None Detected	200	Sq.Ft.
95	Miscellaneous - Rope Gasket - Hurst Boiler	Misc.	Category II Non-Friable	No	Yes	---	Assumed	4	Sq.Ft.
96	Boiler Material (inside) - 2009 Hurst Boilers, 5ft x 10ft x 5ft.	Thermal	Yes	Yes	Yes	---	Assumed	500	Sq.Ft.
97	Boiler Material (inside) - Steam-Pak 1960, 6ft x 18ft x 6ft	Thermal	Yes	Yes	Yes	---	Assumed	504	Sq.Ft.
98	Boiler Insulation - Interior Jacketing - Steam Pak Boiler	Thermal	Yes	No	No	---	None Detected	Not Quantified	Sq.Ft.
99	Boiler Insulation - Interior Jacketing - Hurst Boiler	Thermal	Yes	No	No	---	None Detected	Not Quantified	Sq.Ft.
100	Pipe Insulation - Fiberglass	Thermal	Yes	No	No	---	None Detected	Not Quantified	Ln.Ft.
101	Miscellaneous - Fire Hose	Misc.	Category II Non-Friable	No	Yes	---	Assumed	5	Sq.Ft.
102	Miscellaneous - Rope Gasket, Spools	Misc.	Category II Non-Friable	No	Yes	---	Assumed	2	Sq.Ft.
103	Glazing - On Exterior Aluminum Window Frame	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	1	Sq.Ft.
104	Miscellaneous - Brick and Mortar, Original Building	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
105	Caulk - Exterior Louver	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	1	Sq.Ft.

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106	Texture - On Exterior Transite Panels	Surfacing	Yes	Yes	Yes	---	Assumed	2000	Sq.Ft.
107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	Misc.	No	No	No	---	None Detected	4090	Sq.Ft.
108	Cove Base - 4in Light Blue	Misc.	No	No	No	---	None Detected	50	Sq.Ft.
109	Floor Tile & Mastic - Assumed Under Cabinets	Misc.	Category I Non-Friable	No	Yes	---	Assumed	280	Sq.Ft.
110	Ceramic Tile & Grout - 4in x 6in Grey with Black Dots	Misc.	Category II Non-Friable	No	Yes	---	Assumed	30	Sq.Ft.
111	Laboratory Counter Top - Black	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	230	Sq.Ft.
112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Thermal	Yes	Yes	Yes	---	Assumed	210	Ln.Ft.
113	Glue - Assumed Behind Visual Display Board	Misc.	Category II Non-Friable	No	Yes	---	Assumed	688	Sq.Ft.
114	Caulk - On Interior Steel Door Frame	Misc.	No	No	No	---	None Detected	19	Sq.Ft.
115	Fire Rated Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	12	Each
116	Caulk - On Exterior Steel Door Frame	Misc.	No	No	No	---	None Detected	10	Sq.Ft.
117	Wood Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	20	Sq.Ft.
118	Vibration Dampener Cloth - Black	Misc.	No	No	No	---	None Detected	3	Sq.Ft.
119	Caulk - On Exterior Wood Window Frame	Misc.	No	No	No	---	None Detected	4	Sq.Ft.
120	No Access -	Misc.	Yes	Yes	Yes	---	Assumed	0	Each

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121	Ceiling Tile - 2ft x 4ft White with Random Size Pinholes	Misc.	Yes	No	No	---	None Detected	1555	Sq.Ft.
122	Sink Undercoating - White	Surfacing	No	No	No	---	None Detected	1	Sq.Ft.
123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	Misc.	Category II Non-Friable	No	Yes	---	Assumed	4510	Sq.Ft.
124	Cove Base - 4in Black	Misc.	No	No	No	---	None Detected	15	Sq.Ft.
125	Caulk - Expansion Joint	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
126	Caulk - Interior Steel Window Frame	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
127	Caulk - Grey, Ductwork	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
128	Ceramic Tile & Grout - 2in x 2in Tan	Misc.	Category II Non-Friable	No	Yes	---	Assumed	300	Sq.Ft.
129	Plaster - White with Rough Bumpy Texture	Surfacing	Yes	No	No	---	None Detected	900	Sq.Ft.
130	Brick & Mortar - Addition 1	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
131	Texture - On Soffits, Addition 1	Surfacing	Yes	No	No	---	None Detected	Not Quantified	Sq.Ft.
132	Ceramic Tile & Grout - 12in x 12in Tan	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	150	Sq.Ft.
133	Ceramic Tile & Grout - 1in x 1in Light Blue	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	225	Sq.Ft.

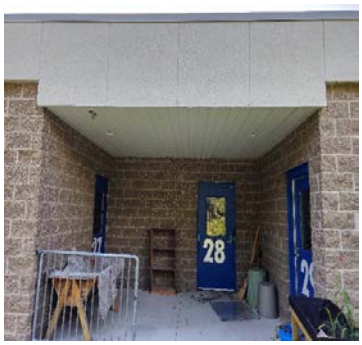
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Oscoda Area Public Schools
Oscoda High School
Asbestos Containing Building Material Survey
Project No.: 230148
Report Date: November 5, 2023

Material # 1	Material # 2
Pipe Insulation-Mudded Fitting - Elbows and Hangers	Duct Work Insulation - Jacket Insulation
	
Asbestos Detected: Yes Asbestos Type: Amosite Percent Asbestos: CH-40%, A-5%	Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 60%

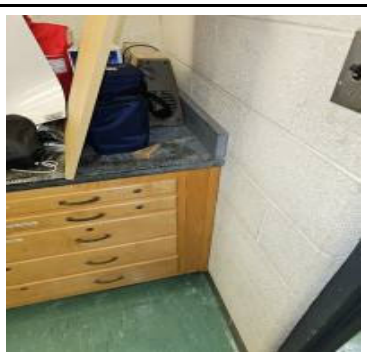
Material # 3	Material # 4
Pipe Insulation - Roof Drain	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes
	
Asbestos Detected: Yes Asbestos Type: Amosite Percent Asbestos: CH-20%, A-5%	Asbestos Detected: Yes Asbestos Type: Amosite Percent Asbestos: T-2%, G-ND

Material # 5	Material # 6
Transite - Siding	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic
	
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: T-3%, M-4%

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Material # 7	Material # 8
Vibration Dampener Cloth - White	Fume Hood -
	
Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 40%	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 9	Material # 10
Fire Brick -	Fire Rated Door -
	
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 11	Material # 12
Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	Laboratory Counter Top -
	
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

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Material # 13
Caulk - On Exterior Steel Door Frame, Grey, Brittle

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 5%

Material # 14
Caulk - On Exterior Steel Sidelight, Grey, Brittle

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 5%

Material # 15
Glazing - On Exterior Steel Sidelight, Grey, Brittle

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 5%

Material # 16
Texture - Above Door Frame, White, Bumpy

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 3%

Material # 17
Glazing - Door With Dual 2ft x 4ft Windows

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 5%

Material # 18
Caulk - On Concrete Frame, Grey Pliable

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

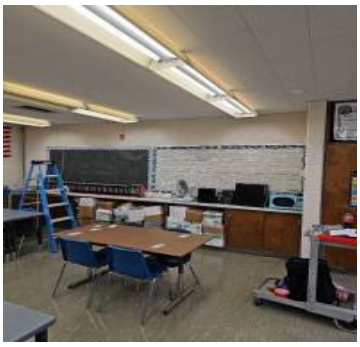
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Material # 19	Material # 20
Glazing - On Door with 2ft x 5ft Window	Caulk - On Exterior Steel Transom, Grey, Brittle
	
Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%	Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 5%

Material # 21	Material # 22
Cove Base - 4in Grey	Cove Base - 4in Light Blue
	
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

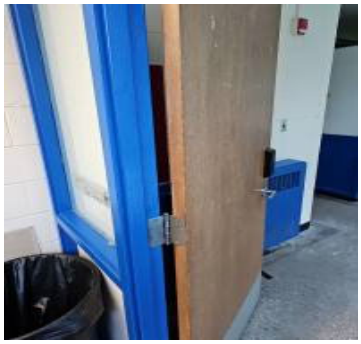
Material # 23	Material # 24
Ceramic Block & Grout - 18in x 4in Grey	Drywall & Joint Compound -
	
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---	Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

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Material # 25
Glue - Assumed Behind Visual Display Board

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 26
Floor Tile & Mastic - Assumed Under Cabinets and Heaters

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 27
Wood Door - Solid Wood

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 28
Glazing - On Interior Steel Storefront Frame

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%

Material # 29
Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: T-4%, M-7%

Material # 30
Caulk - On Interior Steel Door Frame, Grey, Brittle

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%

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Material # 31	Material # 32
Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Ceramic Tile - 4in x 4in White
	
Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: T-4%, M-5%	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 33	Material # 34
Pipe Insulation-Assumed in Walls/Ceiling Cavities -	No Access - No Access
	NORTHERN Analytical ENVIRONMENTAL CONSULTANTS
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 35	Material # 36
Cove Base - 4in Black	Ceramic Tile & Grout - 2ft x 1 ft Grey
	
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Oscoda Area Public Schools
Oscoda High School
Asbestos Containing Building Material Survey
Project No.: 230148
Report Date: November 5, 2023

Material # 37	Material # 38
Caulk - On Bathroom Stalls	Caulk - Expansion Joint, Grey Brittle
	
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%

Material # 39	Material # 40
Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	Caulk - On Interior Steel Storefront Frame
	NORTHERN Analytical ENVIRONMENTAL CONSULTANTS
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%

Material # 41	Material # 42
Tank Insulation - White	Glue - Black, Behind Fiberglass/Jacket Insulation
	
Asbestos Detected: Yes Asbestos Type: Amosite Percent Asbestos: CH-20%, A-25%	Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 5%

Oscoda Area Public Schools
Oscoda High School
Asbestos Containing Building Material Survey
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Material # 43
Caulk - Brown, Brittle, Duct Work Caulk

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%

Material # 44
Miscellaneous - Assumed Water Gaskets

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 45
Miscellaneous - Black Tar on Tunnel Wall

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 5%

Material # 46
Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: T-3%, M-5%

Material # 47
Sink Undercoating - Pink

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 48
Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: T-ND, M-4-7%

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Material # 49	Material # 50
Flooring - Terrazzo, Yellowish Tan	Flooring Layer Assumed Under Surface Layer -
	
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 51	Material # 52
Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks
	
Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 3%	Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 53	Material # 54
Miscellaneous - Tack Board	Light Backing - Silver
	
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 85%

Oscoda Area Public Schools
Oscoda High School
Asbestos Containing Building Material Survey
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Material # 55
Caulk - On Interior Steel Sidelight Frame

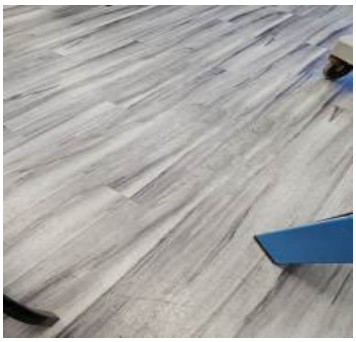
Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%

Material # 56
Glazing - On Interior Steel Sidelight Frame

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%

Material # 57
Sink Undercoating - Black

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 7%

Material # 58
Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 59
Plaster - Smooth

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 60
Floor Tile & Mastic - 12in x 12 in White with Grey and Silver Streaks and Blotches

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: T-ND, M-4-7%

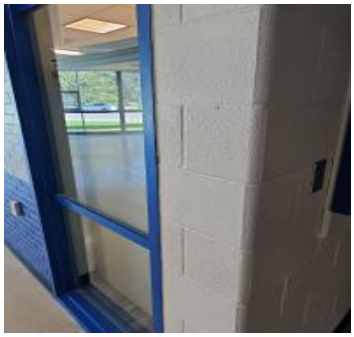
Oscoda Area Public Schools
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Material # 61
Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 62
Sink Undercoating - White

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 63
Caulk - On Interior Steel Window Frame

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 3%

Material # 64
Glazing - On Interior Steel Window Frame

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 5%

Material # 65
Ceramic Tile & Grout - 2ft x 1ft Grey Sandstone Appearance

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 66
Acoustical Ceiling - White with Fluffy/Flakey Texture

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

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Material # 67
Miscellaneous - Tar, Black, Clock/Speaker Backing

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 7%

Material # 68
Floor Tile & Mastic - 12in x 12 in White with Purple, Dark Blue, and Grey Spots

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 69
Floor Tile & Mastic - Grey with Dark Grey and White Streaks

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 70
Acoustical Ceiling - White, Bumpy and Rough Texture

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 71
Miscellaneous - Safe Door

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 72
Miscellaneous - Fire Resistant File Cabinet

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

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Material # 73
Ceramic Tile & Grout - 1ft x 1ft Grey with White and Black Spots

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 74
Ceramic Tile & Grout - 4in x 4in Green with White Flecks/Spots

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 75
Ceramic Block & Grout - 12in x 4in White

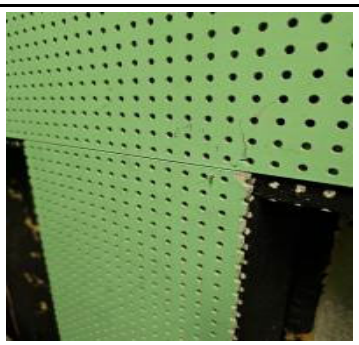
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 76
Tar, Felt & Associated Mastic Layers Under Wood Floor - Wood Stands

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 77
Glazing - On Non-Rated Wood Door with 1ft x 1ft Window

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 78
Cement Board - Green With Holes

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 15%

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Material # 79
Miscellaneous - Black Tar on Fiberglass Mats

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 80
Flooring-Carpet Glue - Yellow

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 81
Tar, Felt & Associated Mastic Layers Under Wood Floor -

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 82
Curtain - Black, Stage

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 83
Curtain - Blue, Stage

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 84
Ceramic Tile & Grout - 2in x 2in Tan

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

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Oscoda High School
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Material # 85
Caulk - On Exterior Aluminum Storefront Frame

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%

Material # 86
Glazing - On Exterior Aluminum Storefront Frame

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%

Material # 87
Ceramic Tile & Grout - 1in x 1in Light Brown

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 88
Floor Tile & Mastic - 12in x 12in White and Blue, Light Blue Flecks

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 89
Ceramic Tile & Grout - 1in x 1in Green and Teal with White Spots

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 90
Vinyl Sheet Flooring - Blue

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

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Oscoda High School
Asbestos Containing Building Material Survey
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Material # 91	Material # 92
Glazing - On Trophy Case, Brown/Grey, Brittle	Caulk - On Interior Aluminum Door Frame, Hard, Grey
	
Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%	Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 3%

Material # 93	Material # 94
Vibration Dampener Cloth - Black	Caulk - Grey Ductwork
	
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 95	Material # 96
Miscellaneous - Rope Gasket - Hurst Boiler	Boiler Material (inside) - 2009 Hurst Boilers, 5ft x 10ft x 5ft.
	
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

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Oscoda High School
Asbestos Containing Building Material Survey
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Material # 97	Material # 98
Boiler Material (inside) - Steam-Pak 1960, 6ft x 18ft x 6ft	Boiler Insulation - Interior Jacketing - Steam Pak Boiler
	
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---	Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 99	Material # 100
Boiler Insulation - Interior Jacketing - Hurst Boiler	Pipe Insulation - Fiberglass
	
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 101	Material # 102
Miscellaneous - Fire Hose	Miscellaneous - Rope Gasket, Spools
	
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

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Material # 103
Glazing - On Exterior Aluminum Window Frame

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 2%

Material # 104
Miscellaneous - Brick and Mortar, Original Building

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 105
Caulk - Exterior Louver

Asbestos Detected: Yes Asbestos Type: Chrysotile Percent Asbestos: 5%

Material # 106
Texture - On Exterior Transite Panels

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 107
Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 108
Cove Base - 4in Light Blue

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

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Material # 109
Floor Tile & Mastic - Assumed Under Cabinets

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 110
Ceramic Tile & Grout - 4in x 6in Grey with Black Dots

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 111
Laboratory Counter Top - Black

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 112
Pipe Insulation-Assumed in Walls/Ceiling Cavities -

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 113
Glue - Assumed Behind Visual Display Board

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 114
Caulk - On Interior Steel Door Frame

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

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Material # 115	Material # 116
Fire Rated Door -	Caulk - On Exterior Steel Door Frame
	
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---	Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 117	Material # 118
Wood Door -	Vibration Dampener Cloth - Black
	
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---	Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 119	Material # 120
Caulk - On Exterior Wood Window Frame	No Access -
	NORTHERN Analytical ENVIRONMENTAL CONSULTANTS
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

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Oscoda High School
Asbestos Containing Building Material Survey
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Material # 121
Ceiling Tile - 2ft x 4ft White with Random Size Pinholes

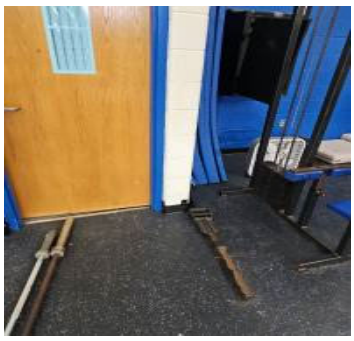
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 122
Sink Undercoating - White

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 123
Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots

Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 124
Cove Base - 4in Black

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 125
Caulk - Expansion Joint

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 126
Caulk - Interior Steel Window Frame

Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

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Material # 127	Material # 128
Caulk - Grey, Ductwork	Ceramic Tile & Grout - 2in x 2in Tan
	
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Material # 129	Material # 130
Plaster - White with Rough Bumpy Texture	Brick & Mortar - Addition 1
	
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---

Material # 131	Material # 132
Texture - On Soffits, Addition 1	Ceramic Tile & Grout - 12in x 12in Tan
	NORTHERN Analytical ENVIRONMENTAL CONSULTANTS
Asbestos Detected: No Asbestos Type: None Detected Percent Asbestos: ---	Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

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Material # 133
Ceramic Tile & Grout - 1in x 1in Light Blue
Asbestos Detected: Yes Asbestos Type: Assumed Percent Asbestos: ---

Inspection Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
Oscoda, MI 48750
Printed: November 5, 2023

Inspection Report

Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
101	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	900	Sq.Ft.	
101	5	Transite - Siding	Yes	Assumed	10	Sq.Ft.	On Door Frame
101	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	900	Sq.Ft.	
101	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	1	Sq.Ft.	1 Unit 8ft x 32ft 1 Unit 8ft x 7 ft
101	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
101	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
101	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	25	Sq.Ft.	As Cove Base on North and East Walls
101	24	Drywall & Joint Compound -	No	None Detected	1070	Sq.Ft.	South Wall and Above Ceiling
101	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	160	Sq.Ft.	105 on East Wall 55 on West Wall
101	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	75	Sq.Ft.	West Wall
101	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
101	28	Glazing - On Interior Steel Storefront Frame	Yes	Chrysotile	1	Sq.Ft.	
102	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	730	Sq.Ft.	
102	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall
102	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
102	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls

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Inspection Report

Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
102	24	Drywall & Joint Compound -	No	None Detected	730	Sq.Ft.	Above Ceiling
102	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	East and West Walls
102	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
102	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
102	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	730	Sq.Ft.	
103	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	5	Ln.Ft.	
103	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	730	Sq.Ft.	
103	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall
103	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
103	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
103	24	Drywall & Joint Compound -	No	None Detected	730	Sq.Ft.	Above Ceiling
103	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	East and West Walls
103	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
103	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
103	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	730	Sq.Ft.	
104	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	540	Sq.Ft.	

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Printed: November 5, 2023

Inspection Report

Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
104	5	Transite - Siding	Yes	Assumed	10	Sq.Ft.	North Wall
104	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
104	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
104	24	Drywall & Joint Compound -	No	None Detected	540	Sq.Ft.	Above Ceiling
104	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	East and West Walls
104	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
104	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
104	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	540	Sq.Ft.	
105	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	540	Sq.Ft.	
105	5	Transite - Siding	Yes	Assumed	10	Sq.Ft.	North Wall
105	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
105	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
105	24	Drywall & Joint Compound -	No	None Detected	540	Sq.Ft.	Above Ceiling
105	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	East and West Walls
105	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
105	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	

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Inspection Report

Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
105	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	540	Sq.Ft.	
106	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	540	Sq.Ft.	
106	5	Transite - Siding	Yes	Assumed	10	Sq.Ft.	North Wall
106	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
106	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
106	24	Drywall & Joint Compound -	No	None Detected	540	Sq.Ft.	Above Ceiling
106	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	East and West Walls
106	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
106	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
106	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	540	Sq.Ft.	
107	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	10	Ln.Ft.	5 Fittings and 5 Hangers
107	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	1050	Sq.Ft.	Some Damaged Tile
107	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	1050	Sq.Ft.	
107	22	Cove Base - 4in Light Blue	No	None Detected	10	Sq.Ft.	
107	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base On West Wall
107	24	Drywall & Joint Compound -	No	None Detected	430	Sq.Ft.	Closet Wall, North Wall, and South Wall

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Inspection Report

Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
107	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	350	Sq.Ft.	200 on West Wall 50 on East Wall and 100 on South Wall
107	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
107	32	Ceramic Tile - 4in x 4in White	Yes	Assumed	50	Sq.Ft.	West Wall
107	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Sinks at North and West Wall
108	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	750	Sq.Ft.	
108	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall
108	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
108	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
108	24	Drywall & Joint Compound -	No	None Detected	750	Sq.Ft.	Above Ceiling
108	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	East and West Walls
108	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
108	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
108	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
108	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	Chrysotile	750	Sq.Ft.	
109	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	750	Sq.Ft.	
109	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall

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Building: Oscoda High School
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Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
109	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
109	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
109	24	Drywall & Joint Compound -	No	None Detected	750	Sq.Ft.	Above Ceiling
109	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	East and West Walls
109	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
109	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
109	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
109	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	Chrysotile	750	Sq.Ft.	
110	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	750	Sq.Ft.	
110	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall
110	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
110	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
110	24	Drywall & Joint Compound -	No	None Detected	750	Sq.Ft.	Above Ceiling
110	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	East and West Walls
110	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
110	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	

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Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
110	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
110	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	Chrysotile	750	Sq.Ft.	
111	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	750	Sq.Ft.	
111	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall
111	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
111	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
111	24	Drywall & Joint Compound -	No	None Detected	750	Sq.Ft.	Above Ceiling
111	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	East and West Walls
111	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
111	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
111	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
111	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	Chrysotile	750	Sq.Ft.	
112	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	120	Sq.Ft.	In Closet
112	10	Fire Rated Door -	Yes	Assumed	1	Each	
112	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
112	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	

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112	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	330	Sq.Ft.	
112	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	450	Sq.Ft.	
112	55	Caulk - On Interior Steel Sidelight Frame	Yes	Chrysotile	60	Sq.Ft.	6x10ft
112	62	Sink Undercoating - White	No	None Detected	2	Sq.Ft.	
113	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	5	Ln.Ft.	Above Ceiling
113	22	Cove Base - 4in Light Blue	No	None Detected	10	Sq.Ft.	
113	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	3x7ft
113	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	Chrysotile	20	Sq.Ft.	Potentially 270 Under Carpet
113	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	270	Sq.Ft.	
113	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	270	Sq.Ft.	
113	80	Flooring-Carpet Glue - Yellow	No	None Detected	270	Sq.Ft.	
114	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	1	Ln.Ft.	
114	3	Pipe Insulation - Roof Drain	Yes	Amosite	1	Ln.Ft.	
114	24	Drywall & Joint Compound -	No	None Detected	300	Sq.Ft.	Ceiling
114	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	10	Sq.Ft.	Mirror at West Wall
114	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	

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114	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	25 for Toilets at North Wall 15 at Sink at South Wall
114	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	Assumed	300	Sq.Ft.	Floor and Cove Base
114	37	Caulk - On Bathroom Stalls	No	None Detected	0	Sq.Ft.	Not Quantified
115	24	Drywall & Joint Compound -	No	None Detected	40	Sq.Ft.	Ceiling
115	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
115	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	
115	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
115	117	Wood Door -	Yes	Assumed	1	Sq.Ft.	Metal w/ Grate, Holes in Door
116	24	Drywall & Joint Compound -	No	None Detected	300	Sq.Ft.	Ceiling
116	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	10	Sq.Ft.	Mirror at West Wall
116	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
116	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	25 for Toilets at North Wall 15 at Sink at South Wall
116	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	Assumed	300	Sq.Ft.	Floor and Cove Base
117	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	80	Sq.Ft.	Assumed Above Drywall
117	24	Drywall & Joint Compound -	No	None Detected	80	Sq.Ft.	Ceiling
117	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	15	Sq.Ft.	East and South Walls

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117	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
117	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
117	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	Toilet at North Wall, Heater and Sink at South Wall, and 5 Above Ceiling
117	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	Assumed	80	Sq.Ft.	
118	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	80	Sq.Ft.	Assumed Above Drywall
118	24	Drywall & Joint Compound -	No	None Detected	80	Sq.Ft.	Ceiling
118	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	15	Sq.Ft.	East and South Walls
118	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
118	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
118	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	Toilet at North Wall, Heater and Sink at South Wall, and 5 Above Ceiling
118	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	Assumed	80	Sq.Ft.	
119	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	100	Ln.Ft.	Vary in Size
119	2	Duct Work Insulation - Jacket Insulation	Yes	Chrysotile	300	Sq.Ft.	Damaged Duct Work Insulation
119	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	90	Sq.Ft.	Assumed Above Drywall
119	7	Vibration Dampener Cloth - White	Yes	Chrysotile	5	Sq.Ft.	On Large Air Handling Units
119	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Steel

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119	24	Drywall & Joint Compound -	No	None Detected	90	Sq.Ft.	Ceiling
119	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
119	38	Caulk - Expansion Joint, Grey Brittle	Yes	Chrysotile	1	Sq.Ft.	
119	41	Tank Insulation - White	Yes	Amosite	25	Sq.Ft.	3ft x 3ft x 6ft Cylindrical Tank
119	42	Glue - Black, Behind Fiberglass/Jacket Insulation	Yes	Chrysotile	300	Sq.Ft.	Behind Jacket Insulation
119	43	Caulk - Brown, Brittle, Duct Work Caulk	Yes	Chrysotile	500	Sq.Ft.	
119	44	Miscellaneous - Assumed Water Gaskets	Yes	Assumed	100	Sq.Ft.	
120	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	750	Sq.Ft.	
120	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	South Wall
120	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
120	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
120	24	Drywall & Joint Compound -	No	None Detected	750	Sq.Ft.	Above Ceiling
120	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	300	Sq.Ft.	North, East, and West Walls
120	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
120	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
120	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	

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Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
120	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	Chrysotile	750	Sq.Ft.	
120	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	750	Sq.Ft.	
121	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	750	Sq.Ft.	
121	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	South Wall
121	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
121	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
121	24	Drywall & Joint Compound -	No	None Detected	750	Sq.Ft.	Above Ceiling
121	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	300	Sq.Ft.	North, East, and West Walls
121	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
121	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
121	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
121	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	Chrysotile	750	Sq.Ft.	
121	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	750	Sq.Ft.	
122	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	750	Sq.Ft.	
122	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	South Wall
122	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	

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122	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
122	24	Drywall & Joint Compound -	No	None Detected	750	Sq.Ft.	Above Ceiling
122	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	300	Sq.Ft.	North, East, and West Walls
122	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
122	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
122	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
122	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	Chrysotile	750	Sq.Ft.	
123	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	750	Sq.Ft.	
123	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	South Wall
123	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
123	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
123	24	Drywall & Joint Compound -	No	None Detected	750	Sq.Ft.	Above Ceiling
123	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	300	Sq.Ft.	North, East, and West Walls
123	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
123	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
123	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	

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123	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	Chrysotile	750	Sq.Ft.	
123	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
124	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	550	Sq.Ft.	
124	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall
124	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
124	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
124	24	Drywall & Joint Compound -	No	None Detected	550	Sq.Ft.	Above Ceiling
124	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	300	Sq.Ft.	North, East, and West Walls
124	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At South Wall
124	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
124	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	550	Sq.Ft.	
124	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
124	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
125	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	550	Sq.Ft.	
125	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall
125	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	

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Room Number	Material Number	Homogeneous Material Description	Asbestos Detected	Asbestos Type	Quantity	Units	Comments
125	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
125	24	Drywall & Joint Compound -	No	None Detected	550	Sq.Ft.	Above Ceiling
125	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	300	Sq.Ft.	North, East, and West Walls
125	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At South Wall
125	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
125	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	550	Sq.Ft.	
125	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
125	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
126	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	550	Sq.Ft.	
126	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall
126	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
126	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
126	24	Drywall & Joint Compound -	No	None Detected	550	Sq.Ft.	Above Ceiling
126	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	300	Sq.Ft.	North, East, and West Walls
126	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At South Wall
126	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	

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126	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	550	Sq.Ft.	
126	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
126	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
127	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	750	Sq.Ft.	
127	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall
127	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
127	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
127	24	Drywall & Joint Compound -	No	None Detected	750	Sq.Ft.	Above Ceiling
127	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	300	Sq.Ft.	North, East, and West Walls
127	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At South Wall
127	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
127	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	750	Sq.Ft.	
127	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
127	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
128	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	750	Sq.Ft.	
128	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	North Wall

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128	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
128	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and West Walls
128	24	Drywall & Joint Compound -	No	None Detected	750	Sq.Ft.	Above Ceiling
128	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	300	Sq.Ft.	North, East, and West Walls
128	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At South Wall
128	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
128	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	750	Sq.Ft.	
128	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
128	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
129	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	950	Sq.Ft.	
129	5	Transite - Siding	Yes	Assumed	10	Sq.Ft.	On Door Frame
129	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	950	Sq.Ft.	
129	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	1	Sq.Ft.	1 Unit 8ft x 32ft 1 Unit 8ft x 7 ft
129	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
129	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
129	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	25	Sq.Ft.	As Cove Base on South and East Walls

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129	24	Drywall & Joint Compound -	No	None Detected	950	Sq.Ft.	Above Ceiling
129	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	160	Sq.Ft.	105 on East Wall 55 on West Wall
129	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	130	Sq.Ft.	West, East, and South Walls
129	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
129	28	Glazing - On Interior Steel Storefront Frame	Yes	Chrysotile	1	Sq.Ft.	
129	40	Caulk - On Interior Steel Storefront Frame	Yes	Chrysotile	1	Sq.Ft.	
130	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	600	Sq.Ft.	
130	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	East Wall
130	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and North Walls
130	24	Drywall & Joint Compound -	No	None Detected	600	Sq.Ft.	Above Ceiling
130	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	North, South, and West Walls
130	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	30	Sq.Ft.	At East Wall
130	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
130	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
130	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
130	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	

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130	46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Yes	Chrysotile	600	Sq.Ft.	
131	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	700	Sq.Ft.	
131	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	East Wall
131	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and North Walls
131	24	Drywall & Joint Compound -	No	None Detected	700	Sq.Ft.	Above Ceiling
131	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	North, South, and West Walls
131	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	30	Sq.Ft.	At East Wall
131	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
131	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
131	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
131	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
131	46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Yes	Chrysotile	700	Sq.Ft.	
131.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	120	Sq.Ft.	Assumed Above Drywall
131.1	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood, Damaged
131.1	12	Laboratory Counter Top -	Yes	Assumed	30	Sq.Ft.	
131.1	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	Cove Base

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131.1	24	Drywall & Joint Compound -	No	None Detected	120	Sq.Ft.	Ceiling
131.1	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	70	Sq.Ft.	East and West Walls
131.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
131.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
131.1	46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Yes	Chrysotile	120	Sq.Ft.	
131.2	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	130	Sq.Ft.	Damaged and Missing Tile
131.2	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood
131.2	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	
131.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
132	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	770	Sq.Ft.	
132	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	East Wall
132	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and North Walls
132	24	Drywall & Joint Compound -	No	None Detected	770	Sq.Ft.	Above Ceiling
132	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	North, South, and West Walls
132	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	30	Sq.Ft.	At East Wall
132	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	

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132	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
132	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	Assumed Above Ceiling and at East Wall Sink
132	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
132	46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Yes	Chrysotile	770	Sq.Ft.	
132	47	Sink Undercoating - Pink	No	None Detected	1	Sq.Ft.	
132.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	3x7ft
132.1	46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Yes	Chrysotile	155	Sq.Ft.	
132.1	59	Plaster - Smooth	No	None Detected	155	Sq.Ft.	Ceiling
132.1	115	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood
133	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	600	Sq.Ft.	
133	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	East Wall
133	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and North Walls
133	24	Drywall & Joint Compound -	No	None Detected	600	Sq.Ft.	Above Ceiling
133	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	North, South, and West Walls
133	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	30	Sq.Ft.	At East Wall
133	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	

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133	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
133	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
133	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
133	46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Yes	Chrysotile	600	Sq.Ft.	
134	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	1300	Sq.Ft.	
134	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	East Wall
134	12	Laboratory Counter Top -	Yes	Assumed	250	Sq.Ft.	
134	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
134	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and North Walls
134	24	Drywall & Joint Compound -	No	None Detected	1300	Sq.Ft.	Above Ceiling
134	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	North, South, and West Walls
134	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	250	Sq.Ft.	
134	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
134	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
134	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
134	48	Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic	Yes	Chrysotile	1300	Sq.Ft.	

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134.1	24	Drywall & Joint Compound -	No	None Detected	70	Sq.Ft.	
134.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	3x7ft
134.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
134.1	48	Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic	Yes	Chrysotile	70	Sq.Ft.	
134.1	117	Wood Door -	Yes	Assumed	1	Sq.Ft.	
135	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	1100	Sq.Ft.	
135	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	East Wall
135	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
135	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and North Walls
135	24	Drywall & Joint Compound -	No	None Detected	1300	Sq.Ft.	Above Ceiling
135	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	280	Sq.Ft.	North and South Walls
135	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	100	Sq.Ft.	North, South, and East Wall
135	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
135	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
135	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
135	48	Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic	Yes	Chrysotile	1100	Sq.Ft.	

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135.1	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood, Very Damaged
135.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	3x7ft
136	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	1600	Sq.Ft.	
136	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	East Wall
136	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	1600	Sq.Ft.	
136	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
136	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and North Walls
136	24	Drywall & Joint Compound -	No	None Detected	1600	Sq.Ft.	Above Ceiling
136	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	100	Sq.Ft.	East and West Walls
136	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	120	Sq.Ft.	North, South, and East Wall
136	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
136	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
136	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
136.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	90	Sq.Ft.	
136.1	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	90	Sq.Ft.	Tile Mostly Gone, Mastic Remains
136.1	24	Drywall & Joint Compound -	No	None Detected	85	Sq.Ft.	

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136.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	3x7ft
136.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
136.1	62	Sink Undercoating - White	No	None Detected	2	Sq.Ft.	
136.1	84	Ceramic Tile & Grout - 2in x 2in Tan	No	None Detected	35	Sq.Ft.	
137	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	15	Ln.Ft.	
137	10	Fire Rated Door -	Yes	Assumed	2	Each	Solid Steel
137	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	Door 1
137	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
137	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	West Wall Sink and Fountain
137	38	Caulk - Expansion Joint, Grey Brittle	Yes	Chrysotile	1	Sq.Ft.	
137	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	1000	Sq.Ft.	Assumed Under Rubber Floor
137	51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
138	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	40	Sq.Ft.	West Wall
138	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Yes	Chrysotile	230	Sq.Ft.	
138.1	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	5	Sq.Ft.	Mirror
138.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	

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138.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
138.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	10 Above Ceiling, 10 at Toilet and Urinal 5 at Sink
138.1	52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	No	None Detected	50	Sq.Ft.	
138.2	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
138.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
139	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	40	Ln.Ft.	
139	8	Fume Hood -	Yes	Assumed	40	Sq.Ft.	Middle of Room
139	10	Fire Rated Door -	Yes	Assumed	2	Each	Solid Steel
139	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	Door 2
139	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	100	Sq.Ft.	
139	51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	1 Unit. 4ft x 8ft
140	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	1400	Sq.Ft.	
140	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	West Wall
140	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	As Cove Base on East Wall
140	24	Drywall & Joint Compound -	No	None Detected	1400	Sq.Ft.	Above Ceiling
140	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	150	Sq.Ft.	North, East, and West Walls

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140	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	350	Sq.Ft.	
140	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
140	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	1400	Sq.Ft.	
140	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
140	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
140	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
140	54	Light Backing - Silver	Yes	Chrysotile	3	Sq.Ft.	Assumed on East Wall
140.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	50	Sq.Ft.	Assumed Above Drywall
140.1	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	50	Sq.Ft.	
140.1	24	Drywall & Joint Compound -	No	None Detected	50	Sq.Ft.	
140.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
140.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
140.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
140.1	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	
141	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	100	Sq.Ft.	
141	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	100	Sq.Ft.	

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Building: Oscoda High School
Address: 3550 River Road
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Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
141	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
141	24	Drywall & Joint Compound -	No	None Detected	100	Sq.Ft.	Above Ceiling
141	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
141	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	Above Ceiling and Heater
141	55	Caulk - On Interior Steel Sidelight Frame	Yes	Chrysotile	2	Sq.Ft.	
141	56	Glazing - On Interior Steel Sidelight Frame	Yes	Chrysotile	2	Sq.Ft.	
141.1	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	50	Ln.Ft.	
141.1	7	Vibration Dampener Cloth - White	Yes	Chrysotile	5	Sq.Ft.	
141.1	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood
141.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
142	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	770	Sq.Ft.	
142	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	West Wall
142	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	770	Sq.Ft.	
142	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on North and South Walls
142	24	Drywall & Joint Compound -	No	None Detected	770	Sq.Ft.	Above Ceiling
142	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	North, East, and South Walls

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142	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	West Wall
142	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
142	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
142	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
142	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
142	54	Light Backing - Silver	Yes	Chrysotile	3	Sq.Ft.	Assumed on East Wall
142.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	100	Sq.Ft.	
142.1	5	Transite - Siding	Yes	Assumed	15	Sq.Ft.	
142.1	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	100	Sq.Ft.	
142.1	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
142.1	24	Drywall & Joint Compound -	No	None Detected	100	Sq.Ft.	
142.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
142.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
143	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	770	Sq.Ft.	
143	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	West Wall
143	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	770	Sq.Ft.	

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143	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and North Walls
143	24	Drywall & Joint Compound -	No	None Detected	770	Sq.Ft.	Above Ceiling
143	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	North, East, and South Walls
143	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At North Wall
143	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
143	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
143	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
143	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
143	57	Sink Undercoating - Black	Yes	Chrysotile	1	Sq.Ft.	
144	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	950	Sq.Ft.	
144	5	Transite - Siding	Yes	Assumed	30	Sq.Ft.	West Wall
144	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	950	Sq.Ft.	
144	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base on East, South, and North Walls
144	24	Drywall & Joint Compound -	No	None Detected	950	Sq.Ft.	Above Ceiling
144	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	200	Sq.Ft.	North, East, and South Walls
144	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	At West Wall

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144	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
144	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
144	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	Assumed Above Ceiling and at sink
144	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
144	57	Sink Undercoating - Black	Yes	Chrysotile	1	Sq.Ft.	
144.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	275	Sq.Ft.	
144.1	5	Transite - Siding	Yes	Assumed	15	Sq.Ft.	
144.1	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	275	Sq.Ft.	
144.1	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	As Cove Base
144.1	24	Drywall & Joint Compound -	No	None Detected	275	Sq.Ft.	Above Ceiling
144.1	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	40	Sq.Ft.	East Wall
144.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
144.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	Above Ceiling at Sink
144.1	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
144.2	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	275	Sq.Ft.	
144.2	5	Transite - Siding	Yes	Assumed	15	Sq.Ft.	

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144.2	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	275	Sq.Ft.	
144.2	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
144.2	24	Drywall & Joint Compound -	No	None Detected	275	Sq.Ft.	Above Ceiling
144.2	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	40	Sq.Ft.	East Wall
144.2	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
144.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	Above Ceiling and at Sink
144.2	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
145	5	Transite - Siding	Yes	Assumed	25	Sq.Ft.	West Wall
145	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	48	Sq.Ft.	South Wall
145	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
145	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
145	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
145	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	1150	Sq.Ft.	
145	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	1150	Sq.Ft.	
145	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	No	None Detected	1150	Sq.Ft.	
145	59	Plaster - Smooth	No	None Detected	600	Sq.Ft.	Above Ceiling

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145.1	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
145.1	24	Drywall & Joint Compound -	No	None Detected	100	Sq.Ft.	Ceiling
145.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
145.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
145.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
145.1	54	Light Backing - Silver	Yes	Chrysotile	2	Sq.Ft.	
145.1	60	Floor Tile & Mastic - 12in x 12 in White with Grey and Silver Streaks and Blotches	Yes	Chrysotile	100	Sq.Ft.	
145.2	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	230	Sq.Ft.	
145.2	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	With 2ft x 3ft Window
145.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
145.2	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
145.2	55	Caulk - On Interior Steel Sidelight Frame	Yes	Chrysotile	1	Sq.Ft.	
145.2	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	No	None Detected	230	Sq.Ft.	
145.2	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	230	Sq.Ft.	
145.2	62	Sink Undercoating - White	No	None Detected	1	Sq.Ft.	
146	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	2 Units at 7x3ft

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146	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
146	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
146	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	300	Sq.Ft.	
146	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	300	Sq.Ft.	
146	117	Wood Door -	Yes	Assumed	1	Sq.Ft.	
147	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	75	Sq.Ft.	
147	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
147	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	North Frame
147	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	At Sink
147	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
147	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	900	Sq.Ft.	
147	40	Caulk - On Interior Steel Storefront Frame	Yes	Chrysotile	2	Sq.Ft.	
147	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	No	None Detected	900	Sq.Ft.	
147	62	Sink Undercoating - White	No	None Detected	1	Sq.Ft.	2 Sinks
147	63	Caulk - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	
147	64	Glazing - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	

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148	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	East and West Walls
148	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	With 2ft x 3ft Window
148	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
148	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
148	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
148	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	No	None Detected	550	Sq.Ft.	
148	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	550	Sq.Ft.	
148	63	Caulk - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	
148	64	Glazing - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	
148.1	10	Fire Rated Door -	Yes	Assumed	1	Each	
148.1	24	Drywall & Joint Compound -	No	None Detected	150	Sq.Ft.	Ceiling
148.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
148.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	Above Ceiling
148.1	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	150	Sq.Ft.	
148.1	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	No	None Detected	150	Sq.Ft.	
149	10	Fire Rated Door -	Yes	Assumed	1	Each	

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149	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
149	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	Above Ceiling
149	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	250	Sq.Ft.	
149	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	No	None Detected	250	Sq.Ft.	
149	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	250	Sq.Ft.	
150	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Steel
150	24	Drywall & Joint Compound -	No	None Detected	250	Sq.Ft.	Ceiling
150	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	10	Sq.Ft.	Mirror at West Wall
150	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
150	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall
150	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	Assumed	250	Sq.Ft.	Floor and Cove Base
151	10	Fire Rated Door -	Yes	Assumed	1	Each	Wood, Solid
151	24	Drywall & Joint Compound -	No	None Detected	70	Sq.Ft.	Ceiling
151	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
151	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	3x7ft
152	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Steel

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152	24	Drywall & Joint Compound -	No	None Detected	250	Sq.Ft.	Ceiling
152	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	10	Sq.Ft.	Mirror at West Wall
152	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
152	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall
152	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	Assumed	250	Sq.Ft.	Floor and Cove Base
152	37	Caulk - On Bathroom Stalls	No	None Detected	0	Sq.Ft.	Not Quantified
153	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	2500	Sq.Ft.	Assumed Above Drywall
153	24	Drywall & Joint Compound -	No	None Detected	2500	Sq.Ft.	Ceiling
153	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	70	Ln.Ft.	At South Wall Heaters, North Wall Fountain and Heater, and Above Ceiling
153	35	Cove Base - 4in Black	No	None Detected	20	Sq.Ft.	
153	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	450	Sq.Ft.	Under Locker Bays
153	65	Ceramic Tile & Grout - 2ft x 1ft Grey Sandstone Appearance	Yes	Assumed	144	Sq.Ft.	
154	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	25	Sq.Ft.	Cove Base
154	24	Drywall & Joint Compound -	No	None Detected	400	Sq.Ft.	Ceiling and Bulkhead
154	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	120	Sq.Ft.	West Wall
154	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	50	Sq.Ft.	Under West Wall Desks

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154	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
154	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
154	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	3000	Sq.Ft.	
154	63	Caulk - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	1 Unit 4ft x 8ft
154	66	Acoustical Ceiling - White with Fluffy/Flakey Texture	No	None Detected	600	Sq.Ft.	
154	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	1	Sq.Ft.	South Wall
154.1	10	Fire Rated Door -	Yes	Assumed	1	Each	Wood with 1ft x 4ft Window
154.1	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
154.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
154.1	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	150	Sq.Ft.	
154.1	68	Floor Tile & Mastic - 12in x 12 in White with Purple, Dark Blue, and Grey Spots	No	None Detected	150	Sq.Ft.	
154.2	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
154.2	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
154.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
154.2	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	100	Sq.Ft.	
154.2	63	Caulk - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	

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Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
154.2	64	Glazing - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	
154.2	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	1	Sq.Ft.	
154.3	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
154.3	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	40	Sq.Ft.	
154.3	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
154.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
154.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
154.3	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	250	Sq.Ft.	
154.3	62	Sink Undercoating - White	No	None Detected	1	Sq.Ft.	
154.3	69	Floor Tile & Mastic - Grey with Dark Grey and White Streaks	No	None Detected	150	Sq.Ft.	
154.4	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	220	Sq.Ft.	Assumed Above Drywall
154.4	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	As Cove Base Behind Black Base
154.4	24	Drywall & Joint Compound -	No	None Detected	220	Sq.Ft.	Ceiling
154.4	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	45	Sq.Ft.	East Wall
154.4	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
154.4	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	

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Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
Oscoda, MI 48750

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Inspection Report

Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
154.4	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
154.4	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
154.4	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	220	Sq.Ft.	
155	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	13270	Sq.Ft.	6600 Assumed Above Acoustical Ceiling and Drywall Ceiling
155	10	Fire Rated Door -	Yes	Assumed	2	Each	Wood with 1ft x 4ft Window
155	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	3	Sq.Ft.	
155	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	20	Sq.Ft.	Cove Base, Painted Blue
155	24	Drywall & Joint Compound -	No	None Detected	600	Sq.Ft.	Ceiling
155	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
155	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	130	Ln.Ft.	Above Ceiling, at Heaters and Water Fountains on All Walls
155	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
155	49	Flooring - Terrazzo, Yellowish Tan	No	None Detected	300	Sq.Ft.	Steps
155	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	15	Sq.Ft.	Throughout Room, Contaminated with Acoustical Ceiling
155	70	Acoustical Ceiling - White, Bumpy and Rough Texture	No	None Detected	6670	Sq.Ft.	Some Damaged Locations
156	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	1	Sq.Ft.	2 Units, 16ft x 10ft
156	18	Caulk - On Concrete Frame, Grey Pliable	No	None Detected	2	Sq.Ft.	Door 5

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156	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
156	24	Drywall & Joint Compound -	No	None Detected	200	Sq.Ft.	Ceiling
156	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	Above Ceiling and at Heaters
156	49	Flooring - Terrazzo, Yellowish Tan	No	None Detected	200	Sq.Ft.	
157	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Steel
157	24	Drywall & Joint Compound -	No	None Detected	200	Sq.Ft.	Ceiling
157	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	10	Sq.Ft.	Mirror at West Wall
157	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
157	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall
157	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	Assumed	200	Sq.Ft.	Floor and Cove Base
158	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	45	Ln.Ft.	
158	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood
158	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	80	Sq.Ft.	
158	27	Wood Door - Solid Wood	Yes	Assumed	4	Sq.Ft.	
158	28	Glazing - On Interior Steel Storefront Frame	Yes	Chrysotile	1	Sq.Ft.	
158	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	

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158	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
158	40	Caulk - On Interior Steel Storefront Frame	Yes	Chrysotile	1	Sq.Ft.	
158	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	1100	Sq.Ft.	
158	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	1100	Sq.Ft.	
158.1	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	10	Ln.Ft.	Above Ceiling
158.1	5	Transite - Siding	Yes	Assumed	10	Sq.Ft.	
158.1	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	20	Sq.Ft.	North Wall
158.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
158.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	At Heater
158.1	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
158.1	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	125	Sq.Ft.	
158.1	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	125	Sq.Ft.	
158.1	63	Caulk - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	1 Unit, 4ft x 8ft
158.1	64	Glazing - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	1 Unit, 4ft x 8ft
158.2	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	10	Ln.Ft.	Above Ceiling
158.2	5	Transite - Siding	Yes	Assumed	10	Sq.Ft.	

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158.2	24	Drywall & Joint Compound -	No	None Detected	50	Sq.Ft.	At North Wall
158.2	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	20	Sq.Ft.	North Wall
158.2	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
158.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
158.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	At Heater
158.2	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
158.2	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	200	Sq.Ft.	
158.2	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	200	Sq.Ft.	
158.2	63	Caulk - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	1 Unit, 4ft x 8ft
158.2	64	Glazing - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	1 Unit, 4ft x 8ft
158.3	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
158.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
158.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	Above Ceiling and At Heater
158.3	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
158.3	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	60	Sq.Ft.	
158.3	59	Plaster - Smooth	No	None Detected	60	Sq.Ft.	

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158.4	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
158.4	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
158.4	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	Above Ceiling and At Heater
158.4	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
158.4	52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	No	None Detected	60	Sq.Ft.	
158.4	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	
158.4	59	Plaster - Smooth	No	None Detected	60	Sq.Ft.	
158.5	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	10	Ln.Ft.	Above Ceiling
158.5	5	Transite - Siding	Yes	Assumed	10	Sq.Ft.	
158.5	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	20	Sq.Ft.	North Wall
158.5	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
158.5	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	At Heater
158.5	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
158.5	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	100	Sq.Ft.	
158.5	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	100	Sq.Ft.	
158.6	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	10	Ln.Ft.	Above Ceiling

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158.6	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	20	Sq.Ft.	North Wall
158.6	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	At Heater
158.6	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
158.6	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	100	Sq.Ft.	
158.6	55	Caulk - On Interior Steel Sidelight Frame	Yes	Chrysotile	1	Sq.Ft.	
158.6	56	Glazing - On Interior Steel Sidelight Frame	Yes	Chrysotile	1	Sq.Ft.	
158.6	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	100	Sq.Ft.	
158.7	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
158.7	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
158.7	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	Above Ceiling and At Heater and Sink
158.7	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
158.7	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	170	Sq.Ft.	
158.7	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	170	Sq.Ft.	
158.8	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	120	Sq.Ft.	
158.8	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
158.8	24	Drywall & Joint Compound -	No	None Detected	120	Sq.Ft.	

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158.8	71	Miscellaneous - Safe Door	Yes	Assumed	1	Sq.Ft.	
158.8	72	Miscellaneous - Fire Resistant File Cabinet	Yes	Assumed	1	Sq.Ft.	Inside Safe
159	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	700	Sq.Ft.	
159	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	50	Ln.Ft.	Above Ceiling and at Heater
159	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
159	49	Flooring - Terrazzo, Yellowish Tan	No	None Detected	50	Sq.Ft.	
159	70	Acoustical Ceiling - White, Bumpy and Rough Texture	No	None Detected	300	Sq.Ft.	
159	73	Ceramic Tile & Grout - 1ft x 1ft Grey with White and Black Spots	Yes	Assumed	700	Sq.Ft.	
160	24	Drywall & Joint Compound -	No	None Detected	1600	Sq.Ft.	Ceilings and Bulkheads
160	27	Wood Door - Solid Wood	Yes	Assumed	3	Sq.Ft.	
160	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	3	Sq.Ft.	
160	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	75	Ln.Ft.	25 at Sinks and Heaters Throughout Room and Above Ceiling
160	74	Ceramic Tile & Grout - 4in x 4in Green with White Flecks/Spots	Yes	Assumed	1100	Sq.Ft.	
160	75	Ceramic Block & Grout - 12in x 4in White	Yes	Assumed	1000	Sq.Ft.	
160.1	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
160.1	24	Drywall & Joint Compound -	No	None Detected	70	Sq.Ft.	Ceiling

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160.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
160.1	46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Yes	Chrysotile	70	Sq.Ft.	
160.1	55	Caulk - On Interior Steel Sidelight Frame	Yes	Chrysotile	1	Sq.Ft.	
160.1	56	Glazing - On Interior Steel Sidelight Frame	Yes	Chrysotile	1	Sq.Ft.	
160.1	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	1	Sq.Ft.	Assumed at Speaker
160.2	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	85	Sq.Ft.	
160.2	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
160.2	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	6	Sq.Ft.	At Mirror
160.2	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
160.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
160.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	10 Above Ceiling and 5 At Sink
160.2	48	Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic	Yes	Chrysotile	85	Sq.Ft.	
160.2	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	85	Sq.Ft.	
160.3	24	Drywall & Joint Compound -	No	None Detected	30	Sq.Ft.	Ceiling
160.3	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
160.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	

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160.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
160.3	52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	No	None Detected	30	Sq.Ft.	
160.3	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	Damaged
160.4	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
160.4	24	Drywall & Joint Compound -	No	None Detected	250	Sq.Ft.	Ceiling
160.4	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
160.4	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
160.4	46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Yes	Chrysotile	250	Sq.Ft.	
160.5	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
160.5	24	Drywall & Joint Compound -	No	None Detected	165	Sq.Ft.	Ceiling
160.5	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
160.5	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
160.5	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
160.5	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	165	Sq.Ft.	
160.5	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	No	None Detected	165	Sq.Ft.	
161	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Steel

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161	24	Drywall & Joint Compound -	No	None Detected	200	Sq.Ft.	Ceiling
161	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	10	Sq.Ft.	Mirror at West Wall
161	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
161	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall
161	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	Assumed	200	Sq.Ft.	Floor and Cove Base
162	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	1200	Sq.Ft.	Damaged Debris on Floor
162	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	Cove Base
162	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	1500	Sq.Ft.	South, East, and West Walls
162	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
162	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	1200	Sq.Ft.	600 Assumed Under Wood Stands
162	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
162	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	Above Ceiling
162	53	Miscellaneous - Tack Board	Yes	Assumed	48	Sq.Ft.	East Wall
162	59	Plaster - Smooth	No	None Detected	1200	Sq.Ft.	Above Ceiling Tile
162	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	1	Sq.Ft.	
162	76	Tar, Felt & Associated Mastic Layers Under Wood Floor - Wood Stands	Yes	Assumed	600	Sq.Ft.	

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162	78	Cement Board - Green With Holes	Yes	Chrysotile	1300	Sq.Ft.	North and South Walls
162	79	Miscellaneous - Black Tar on Fiberglass Mats	No	None Detected	1300	Sq.Ft.	Assumed Behind Transite Boards with Holes
163	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	115	Sq.Ft.	Damaged with Floor Debris
163	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
163	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	115	Sq.Ft.	
163	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
163	59	Plaster - Smooth	No	None Detected	115	Sq.Ft.	Assumed Above Ceiling
163	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	1	Sq.Ft.	Assumed
163	77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	No	None Detected	2	Sq.Ft.	
163.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	50	Sq.Ft.	
163.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	1ft x 1ft Window
163.1	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	60	Sq.Ft.	
163.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
163.1	59	Plaster - Smooth	No	None Detected	50	Sq.Ft.	Assumed Above Ceiling
163.1	77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	No	None Detected	1	Sq.Ft.	
163.1	78	Cement Board - Green With Holes	Yes	Chrysotile	160	Sq.Ft.	North and East Walls

Northern Analytical Services

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Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
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Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
163.1	79	Miscellaneous - Black Tar on Fiberglass Mats	No	None Detected	160	Sq.Ft.	
163.2	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	40	Sq.Ft.	
163.2	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	1 Wood with 1ft x 1ft Window 1 Steel with 3ft x 3ft Window
163.2	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	55	Sq.Ft.	
163.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
163.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
163.2	59	Plaster - Smooth	No	None Detected	50	Sq.Ft.	Above Ceiling
163.2	77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	No	None Detected	1	Sq.Ft.	
163.3	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	50	Sq.Ft.	
163.3	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	1ft x 1ft Window
163.3	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	60	Sq.Ft.	
163.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
163.3	59	Plaster - Smooth	No	None Detected	50	Sq.Ft.	Assumed Above Ceiling
163.3	77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	No	None Detected	1	Sq.Ft.	
163.3	78	Cement Board - Green With Holes	Yes	Chrysotile	160	Sq.Ft.	North and East Walls
163.3	79	Miscellaneous - Black Tar on Fiberglass Mats	No	None Detected	160	Sq.Ft.	

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163.4	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	50	Sq.Ft.	
163.4	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	1ft x 1ft Window
163.4	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	60	Sq.Ft.	
163.4	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
163.4	59	Plaster - Smooth	No	None Detected	50	Sq.Ft.	Assumed Above Ceiling
163.4	77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	No	None Detected	1	Sq.Ft.	
163.4	78	Cement Board - Green With Holes	Yes	Chrysotile	160	Sq.Ft.	North and East Walls
163.4	79	Miscellaneous - Black Tar on Fiberglass Mats	No	None Detected	160	Sq.Ft.	
163.5	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	60	Sq.Ft.	
163.5	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	1ft x 1ft Window
163.5	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	60	Sq.Ft.	
163.5	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
163.5	59	Plaster - Smooth	No	None Detected	60	Sq.Ft.	Assumed Above Ceiling
163.5	77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	No	None Detected	1	Sq.Ft.	
163.5	78	Cement Board - Green With Holes	Yes	Chrysotile	160	Sq.Ft.	West and South Walls
163.5	79	Miscellaneous - Black Tar on Fiberglass Mats	No	None Detected	160	Sq.Ft.	

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163.6	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	60	Sq.Ft.	
163.6	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	1ft x 1ft Window
163.6	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	60	Sq.Ft.	
163.6	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
163.6	59	Plaster - Smooth	No	None Detected	60	Sq.Ft.	Assumed Above Ceiling
163.6	77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	No	None Detected	1	Sq.Ft.	
163.6	78	Cement Board - Green With Holes	Yes	Chrysotile	160	Sq.Ft.	West and South Walls
163.6	79	Miscellaneous - Black Tar on Fiberglass Mats	No	None Detected	160	Sq.Ft.	
163.7	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	320	Sq.Ft.	
163.7	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	1ft x 1ft Window
163.7	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	320	Sq.Ft.	
163.7	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
163.7	59	Plaster - Smooth	No	None Detected	320	Sq.Ft.	Assumed Above Ceiling
163.7	77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	No	None Detected	1	Sq.Ft.	
163.7	78	Cement Board - Green With Holes	Yes	Chrysotile	300	Sq.Ft.	West and South Walls
163.7	79	Miscellaneous - Black Tar on Fiberglass Mats	No	None Detected	300	Sq.Ft.	

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164	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	1700	Sq.Ft.	Damaged In Area
164	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	Cove Base
164	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	1500	Sq.Ft.	South, East, and West Walls
164	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
164	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	1700	Sq.Ft.	
164	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
164	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	Above Ceiling
164	53	Miscellaneous - Tack Board	Yes	Assumed	48	Sq.Ft.	East Wall
164	59	Plaster - Smooth	No	None Detected	1700	Sq.Ft.	Above Ceiling Tile
164	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	1	Sq.Ft.	
164	78	Cement Board - Green With Holes	Yes	Chrysotile	1300	Sq.Ft.	North and South Walls
164	79	Miscellaneous - Black Tar on Fiberglass Mats	No	None Detected	1300	Sq.Ft.	Assumed Behind Transite Boards with Holes
164.1	21	Cove Base - 4in Grey	No	None Detected	5	Sq.Ft.	
164.1	24	Drywall & Joint Compound -	No	None Detected	250	Sq.Ft.	
164.1	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	250	Sq.Ft.	
164.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	

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165	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	100	Ln.Ft.	
165	2	Duct Work Insulation - Jacket Insulation	Yes	Chrysotile	200	Sq.Ft.	
165	7	Vibration Dampener Cloth - White	Yes	Chrysotile	5	Sq.Ft.	
165	10	Fire Rated Door -	Yes	Assumed	1	Each	Steel
165	24	Drywall & Joint Compound -	No	None Detected	60	Sq.Ft.	Ceiling
165	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
165	43	Caulk - Brown, Brittle, Duct Work Caulk	Yes	Chrysotile	200	Sq.Ft.	Assumed At Joints
165	44	Miscellaneous - Assumed Water Gaskets	Yes	Assumed	50	Sq.Ft.	
165.1	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	3	Ln.Ft.	
165.1	44	Miscellaneous - Assumed Water Gaskets	Yes	Assumed	1	Sq.Ft.	
165.1	45	Miscellaneous - Black Tar on Tunnel Wall	Yes	Chrysotile	150	Sq.Ft.	
166	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
166	24	Drywall & Joint Compound -	No	None Detected	200	Sq.Ft.	Walls
166	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	With 3ft x 4ft Window
166	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
166	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	130	Sq.Ft.	Flooring Found

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166	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	120	Sq.Ft.	
166	80	Flooring-Carpet Glue - Yellow	No	None Detected	120	Sq.Ft.	
166.1	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
166.1	24	Drywall & Joint Compound -	No	None Detected	200	Sq.Ft.	Walls
166.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	With 3ft x 4ft Window
166.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
166.1	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	130	Sq.Ft.	Flooring Found
166.1	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	120	Sq.Ft.	
166.1	80	Flooring-Carpet Glue - Yellow	No	None Detected	120	Sq.Ft.	
166.2	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood, Damaged
166.2	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
166.2	24	Drywall & Joint Compound -	No	None Detected	120	Sq.Ft.	Walls
166.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
166.2	48	Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic	Yes	Chrysotile	80	Sq.Ft.	
166.2	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	80	Sq.Ft.	
166.2	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	80	Sq.Ft.	

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166.2	72	Miscellaneous - Fire Resistant File Cabinet	Yes	Assumed	1	Sq.Ft.	Grey Hamilton
166.3	22	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
166.3	24	Drywall & Joint Compound -	No	None Detected	200	Sq.Ft.	Walls
166.3	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	With 3ft x 4ft Window
166.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
166.3	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	130	Sq.Ft.	Flooring Found
166.3	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	120	Sq.Ft.	
166.3	80	Flooring-Carpet Glue - Yellow	No	None Detected	120	Sq.Ft.	
167	10	Fire Rated Door -	Yes	Assumed	2	Each	Solid Wood
167	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	Doors 8 & 9. Door 9 has caulk that is breaking and falling off. Door 8 Abated
167	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	Solid Steel
167	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
167	59	Plaster - Smooth	No	None Detected	2000	Sq.Ft.	Above Stage
167	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	1	Sq.Ft.	
167	81	Tar, Felt & Associated Mastic Layers Under Wood Floor -	Yes	Assumed	3000	Sq.Ft.	Stage
167	82	Curtain - Black, Stage	No	None Detected	2000	Sq.Ft.	

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167	83	Curtain - Blue, Stage	No	None Detected	1000	Sq.Ft.	
168	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	2000	Sq.Ft.	
168	27	Wood Door - Solid Wood	Yes	Assumed	4	Sq.Ft.	
168	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	4	Sq.Ft.	
168	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	50	Ln.Ft.	Above Ceiling
168	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	1700	Sq.Ft.	
168	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	35	Sq.Ft.	Assumed in Ceiling Light Wells
168	70	Acoustical Ceiling - White, Bumpy and Rough Texture	No	None Detected	3500	Sq.Ft.	
168	79	Miscellaneous - Black Tar on Fiberglass Mats	No	None Detected	10000	Sq.Ft.	Behind Metal Pan Walls
168	80	Flooring-Carpet Glue - Yellow	No	None Detected	1700	Sq.Ft.	
169	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	100	Sq.Ft.	
169	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
169	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
169	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
169	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
169	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	100	Sq.Ft.	

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169	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	No	None Detected	100	Sq.Ft.	
169	59	Plaster - Smooth	No	None Detected	100	Sq.Ft.	Assumed Above Ceiling Tile
169.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	40	Sq.Ft.	Assumed Above Drywall
169.1	24	Drywall & Joint Compound -	No	None Detected	40	Sq.Ft.	
169.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
169.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
169.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	10 Above Ceiling, 5 at Toilet, 5 at Sink
169.1	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	
169.1	59	Plaster - Smooth	No	None Detected	40	Sq.Ft.	Assumed Above Drywall
169.1	84	Ceramic Tile & Grout - 2in x 2in Tan	No	None Detected	45	Sq.Ft.	Floor and Cove Base
170	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	100	Sq.Ft.	
170	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
170	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
170	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
170	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
170	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	100	Sq.Ft.	

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170	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	No	None Detected	100	Sq.Ft.	
170	59	Plaster - Smooth	No	None Detected	100	Sq.Ft.	Assumed Above Ceiling Tile
170.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	40	Sq.Ft.	Assumed Above Drywall
170.1	24	Drywall & Joint Compound -	No	None Detected	40	Sq.Ft.	
170.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
170.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
170.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	10 Above Ceiling, 5 at Toilet, 5 at Sink
170.1	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	
170.1	59	Plaster - Smooth	No	None Detected	40	Sq.Ft.	Assumed Above Drywall
170.1	84	Ceramic Tile & Grout - 2in x 2in Tan	No	None Detected	45	Sq.Ft.	Floor and Cove Base
171	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	3	Ln.Ft.	
171	3	Pipe Insulation - Roof Drain	Yes	Amosite	1	Ln.Ft.	
171	24	Drywall & Joint Compound -	No	None Detected	120	Sq.Ft.	
171	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
171	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
171	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	At Sink

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172	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	8	Ln.Ft.	
172	10	Fire Rated Door -	Yes	Assumed	1	Each	Damaged, Door is Cracked
172	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	Cove Base
172	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
172	59	Plaster - Smooth	No	None Detected	125	Sq.Ft.	Damaged
173	10	Fire Rated Door -	Yes	Assumed	2	Each	Solid Steel, One Damaged
173	24	Drywall & Joint Compound -	No	None Detected	300	Sq.Ft.	Ceiling
173	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
173	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	Above Ceiling
173	53	Miscellaneous - Tack Board	Yes	Assumed	60	Sq.Ft.	South and North Wall
173.1	24	Drywall & Joint Compound -	No	None Detected	50	Sq.Ft.	
173.1	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	120	Sq.Ft.	North and East Walls
173.2	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	6	Sq.Ft.	At Mirror
173.2	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
173.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
173.2	32	Ceramic Tile - 4in x 4in White	Yes	Assumed	50	Sq.Ft.	Painted Blue

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Building: Oscoda High School
Address: 3550 River Road
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173.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	20	Ln.Ft.	10 at Sink, Toilet, and Heater and 10 Above Ceiling
173.2	87	Ceramic Tile & Grout - 1in x 1in Light Brown	Yes	Assumed	10	Sq.Ft.	
173.3	24	Drywall & Joint Compound -	No	None Detected	500	Sq.Ft.	Ceiling
173.3	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	Solid Steel
173.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
173.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
174	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	1600	Sq.Ft.	Above Tile
174	24	Drywall & Joint Compound -	No	None Detected	900	Sq.Ft.	
174	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	70	Ln.Ft.	At South Wall Heaters, North Wall Fountain and Heater, and Above Ceiling
174	35	Cove Base - 4in Black	No	None Detected	20	Sq.Ft.	
174	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	1600	Sq.Ft.	Ceiling
174	50	Flooring Layer Assumed Under Surface Layer -	Yes	Assumed	450	Sq.Ft.	Under Locker Bays
174	59	Plaster - Smooth	No	None Detected	2200	Sq.Ft.	Assumed Above Ceiling Tiles
174	65	Ceramic Tile & Grout - 2ft x 1ft Grey Sandstone Appearance	Yes	Assumed	72	Sq.Ft.	Two Benches
174	88	Floor Tile & Mastic - 12in x 12in White and Blue, Light Blue Flecks	No	None Detected	300	Sq.Ft.	
175	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	Cove Base

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175	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
175	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
175	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	830	Sq.Ft.	
175	53	Miscellaneous - Tack Board	Yes	Assumed	25	Sq.Ft.	East Wall
175	59	Plaster - Smooth	No	None Detected	830	Sq.Ft.	Some Damage Above Ceiling Tile
175	90	Vinyl Sheet Flooring - Blue	No	None Detected	830	Sq.Ft.	
175.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	100	Sq.Ft.	
175.1	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
175.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
175.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
175.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	At Sink and Above Ceiling
175.1	59	Plaster - Smooth	No	None Detected	100	Sq.Ft.	Assumed Above Ceiling Tile
175.2	24	Drywall & Joint Compound -	No	None Detected	40	Sq.Ft.	Ceiling
175.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	At Toilet and Above Ceiling
175.2	87	Ceramic Tile & Grout - 1in x 1in Light Brown	Yes	Assumed	40	Sq.Ft.	
175.3	24	Drywall & Joint Compound -	No	None Detected	80	Sq.Ft.	

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175.3	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
175.3	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	80	Sq.Ft.	
175.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
175.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
175.4	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
175.4	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
175.4	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	5 At Sink and 5 Above Ceiling
175.4	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	Damaged
175.4	59	Plaster - Smooth	No	None Detected	40	Sq.Ft.	Ceiling
175.5	24	Drywall & Joint Compound -	No	None Detected	200	Sq.Ft.	Ceiling
175.5	32	Ceramic Tile - 4in x 4in White	Yes	Assumed	800	Sq.Ft.	
175.5	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	100	Ln.Ft.	50 Above Ceilings and At Showers, Sinks, and Toilets
175.5	59	Plaster - Smooth	No	None Detected	335	Sq.Ft.	Ceiling
175.5	89	Ceramic Tile & Grout - 1in x 1in Green and Teal with White Spots	Yes	Assumed	535	Sq.Ft.	
175.6	24	Drywall & Joint Compound -	No	None Detected	60	Sq.Ft.	Ceiling
175.6	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	25	Ln.Ft.	10 Above Ceiling and 15 at Sinks and Toilets

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175.6	59	Plaster - Smooth	No	None Detected	60	Sq.Ft.	Assumed Above Drywall
175.6	75	Ceramic Block & Grout - 12in x 4in White	Yes	Assumed	100	Sq.Ft.	Walls
175.6	87	Ceramic Tile & Grout - 1in x 1in Light Brown	Yes	Assumed	60	Sq.Ft.	
175.7	24	Drywall & Joint Compound -	No	None Detected	175	Sq.Ft.	Ceiling
175.7	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
175.7	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
175.7	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	Above Ceiling
175.7	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	Damaged
175.7	73	Ceramic Tile & Grout - 1ft x 1ft Grey with White and Black Spots	Yes	Assumed	100	Sq.Ft.	Floor
175.8	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
175.8	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
175.8	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
175.8	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
175.8	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	
175.8	59	Plaster - Smooth	No	None Detected	120	Sq.Ft.	Ceiling
176	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	15	Sq.Ft.	Cove Base and Below Lockers

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176	24	Drywall & Joint Compound -	No	None Detected	120	Sq.Ft.	North Wall
176	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
176	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
176	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
176	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Assumed Above Ceiling
176	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	770	Sq.Ft.	
176	59	Plaster - Smooth	No	None Detected	820	Sq.Ft.	Above Drop Ceiling and Bulkhead
176.01	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	100	Sq.Ft.	
176.01	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
176.01	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	10	Sq.Ft.	South Wall.
176.01	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
176.01	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
176.01	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	5 At South Sink and 5 Above ceiling
176.02	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
176.02	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
176.02	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	

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176.02	32	Ceramic Tile - 4in x 4in White	Yes	Assumed	80	Sq.Ft.	At Shower
176.02	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	5 Above Ceiling 5 At West Toilet and 5 at East Shower
176.02	52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	No	None Detected	40	Sq.Ft.	Bathroom Floor
176.02	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	
176.02	59	Plaster - Smooth	No	None Detected	120	Sq.Ft.	Ceiling
176.03	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	2	Ln.Ft.	Above Plaster Ceiling
176.03	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
176.03	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
176.03	59	Plaster - Smooth	No	None Detected	120	Sq.Ft.	75 Above Wood Bulkhead
176.04	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	20 At East Wall 10 At West Wall and 10 Above Ceiling
176.04	52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	No	None Detected	100	Sq.Ft.	Floor
176.04	75	Ceramic Block & Grout - 12in x 4in White	Yes	Assumed	170	Sq.Ft.	Walls
176.05	32	Ceramic Tile - 4in x 4in White	Yes	Assumed	300	Sq.Ft.	Walls
176.05	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	30	Ln.Ft.	10 At South Wall 10 At North Wall and 10 Above Ceiling
176.05	59	Plaster - Smooth	No	None Detected	175	Sq.Ft.	Ceiling
176.05	87	Ceramic Tile & Grout - 1in x 1in Light Brown	Yes	Assumed	175	Sq.Ft.	Floor

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Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
176.06	24	Drywall & Joint Compound -	No	None Detected	50	Sq.Ft.	Ceiling
176.06	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
176.06	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	50	Sq.Ft.	
176.06	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
176.06	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
176.06	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	
176.07	24	Drywall & Joint Compound -	No	None Detected	175	Sq.Ft.	100 At Ceiling 75 At West Wall
176.07	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
176.07	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
176.07	73	Ceramic Tile & Grout - 1ft x 1ft Grey with White and Black Spots	Yes	Assumed	100	Sq.Ft.	Floor
176.08	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	3	Ln.Ft.	Damaged
176.08	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
176.08	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
176.08	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	At Sink and Above Ceiling
176.08	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	
176.08	59	Plaster - Smooth	No	None Detected	30	Sq.Ft.	Ceiling

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176.09	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	150	Sq.Ft.	
176.09	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
176.09	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	Above Ceiling
176.09	55	Caulk - On Interior Steel Sidelight Frame	Yes	Chrysotile	1	Sq.Ft.	
176.09	56	Glazing - On Interior Steel Sidelight Frame	Yes	Chrysotile	1	Sq.Ft.	
176.09	132	Ceramic Tile & Grout - 12in x 12in Tan	Yes	Assumed	150	Sq.Ft.	Floor
176.10	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	5 At North Shower 5 At South Sink and 5 Above Ceiling
176.10	52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	No	None Detected	45	Sq.Ft.	Floor
176.10	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	Damaged
176.10	59	Plaster - Smooth	No	None Detected	45	Sq.Ft.	Ceiling
176.11	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	Cove Base
176.11	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
176.11	59	Plaster - Smooth	No	None Detected	175	Sq.Ft.	Ceiling
176.11	133	Ceramic Tile & Grout - 1in x 1in Light Blue	Yes	Assumed	175	Sq.Ft.	Floor
176.12	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
176.12	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	

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176.12	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
176.12	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	5 At E Sink 5 Above Ceiling
176.12	52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	No	None Detected	100	Sq.Ft.	Floor
176.12	59	Plaster - Smooth	No	None Detected	100	Sq.Ft.	Ceiling
176.13	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
176.13	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
176.13	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	Above Ceiling
176.13	59	Plaster - Smooth	No	None Detected	50	Sq.Ft.	Ceiling
176.13	133	Ceramic Tile & Grout - 1in x 1in Light Blue	Yes	Assumed	50	Sq.Ft.	Floor
177	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	75	Sq.Ft.	
177	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
177	24	Drywall & Joint Compound -	No	None Detected	75	Sq.Ft.	Ceiling
177	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	
177	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
177	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
177	54	Light Backing - Silver	Yes	Chrysotile	1	Sq.Ft.	

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178	27	Wood Door - Solid Wood	Yes	Assumed	8	Sq.Ft.	Solid Steel
178	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	4	Sq.Ft.	
178	38	Caulk - Expansion Joint, Grey Brittle	Yes	Chrysotile	1	Sq.Ft.	
178	81	Tar, Felt & Associated Mastic Layers Under Wood Floor -	Yes	Assumed	10500	Sq.Ft.	Includes Floor Under Bleachers
178.1	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	120	Sq.Ft.	
178.1	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Yes	Assumed	25	Sq.Ft.	
178.1	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	Solid Steel
178.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
178.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	Above Ceiling
179	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Steel
179	24	Drywall & Joint Compound -	No	None Detected	200	Sq.Ft.	Ceiling
179	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	10	Sq.Ft.	Mirror at West Wall
179	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
179	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall
179	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	Assumed	200	Sq.Ft.	Floor and Cove Base
180	24	Drywall & Joint Compound -	No	None Detected	60	Sq.Ft.	Ceiling

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180	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	3x7ft
180	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
180	88	Floor Tile & Mastic - 12in x 12in White and Blue, Light Blue Flecks	No	None Detected	60	Sq.Ft.	
181	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	10	Ln.Ft.	1 Damaged
181	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Steel
181	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
181	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	160	Sq.Ft.	
182	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Yes	Chrysotile	100	Sq.Ft.	
182	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	3x7ft
182	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	
182	59	Plaster - Smooth	No	None Detected	100	Sq.Ft.	Ceiling
183	10	Fire Rated Door -	Yes	Assumed	1	Each	Solid Steel
183	24	Drywall & Joint Compound -	No	None Detected	200	Sq.Ft.	Ceiling
183	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	10	Sq.Ft.	Mirror at West Wall
183	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
183	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall

Northern Analytical Services

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Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
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Inspection Report

Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
183	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Yes	Assumed	200	Sq.Ft.	Floor and Cove Base
184	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	4x7ft
184	44	Miscellaneous - Assumed Water Gaskets	Yes	Assumed	25	Sq.Ft.	
184	117	Wood Door -	Yes	Assumed	1	Sq.Ft.	Solid
185	10	Fire Rated Door -	Yes	Assumed	1	Each	Steel with 6in x 2ft Window
185	24	Drywall & Joint Compound -	No	None Detected	1000	Sq.Ft.	East Wall
185	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	256	Sq.Ft.	64 On Each Wall
185	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	Solid Aluminum
185	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
185	59	Plaster - Smooth	No	None Detected	1000	Sq.Ft.	West Wall
185	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	1	Sq.Ft.	
185	75	Ceramic Block & Grout - 12in x 4in White	Yes	Assumed	7500	Sq.Ft.	Walls
185	89	Ceramic Tile & Grout - 1in x 1in Green and Teal with White Spots	Yes	Assumed	8500	Sq.Ft.	Walls, Floor, and Pool
185	92	Caulk - On Interior Aluminum Door Frame, Hard, Grey	Yes	Chrysotile	1	Sq.Ft.	
185.1	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	5	Sq.Ft.	Cove Base
185.1	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	Solid Aluminum

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185.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	5 Above Ceiling and 5 At Heater
185.1	46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Yes	Chrysotile	100	Sq.Ft.	
185.1	59	Plaster - Smooth	No	None Detected	100	Sq.Ft.	Ceiling
185.1	92	Caulk - On Interior Aluminum Door Frame, Hard, Grey	Yes	Chrysotile	1	Sq.Ft.	
185.2	32	Ceramic Tile - 4in x 4in White	Yes	Assumed	350	Sq.Ft.	Walls
185.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	100	Ln.Ft.	90 Showers On All Walls and 10 Above Ceiling
185.2	59	Plaster - Smooth	No	None Detected	150	Sq.Ft.	Ceiling
185.2	87	Ceramic Tile & Grout - 1in x 1in Light Brown	Yes	Assumed	150	Sq.Ft.	Floor
185.3	32	Ceramic Tile - 4in x 4in White	Yes	Assumed	350	Sq.Ft.	Walls
185.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	100	Ln.Ft.	90 At Showers On All Walls and 10 Above Ceiling
185.3	59	Plaster - Smooth	No	None Detected	150	Sq.Ft.	Ceiling
185.3	87	Ceramic Tile & Grout - 1in x 1in Light Brown	Yes	Assumed	150	Sq.Ft.	Floor
186	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	3000	Sq.Ft.	Above Ceiling
186	24	Drywall & Joint Compound -	No	None Detected	1200	Sq.Ft.	Ceiling and Bulkhead
186	27	Wood Door - Solid Wood	Yes	Assumed	4	Sq.Ft.	Solid Steel
186	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	3000	Sq.Ft.	

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186	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
186	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	15	Ln.Ft.	Above Ceiling
186	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	No	None Detected	2000	Sq.Ft.	
186.1	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	1	Ln.Ft.	
186.1	24	Drywall & Joint Compound -	No	None Detected	130	Sq.Ft.	Ceiling
186.1	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	Solid Steel
186.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
186.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	Above Ceiling
186.1	54	Light Backing - Silver	Yes	Chrysotile	2	Sq.Ft.	
186.2	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	1	Ln.Ft.	
186.2	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	190	Sq.Ft.	Ceiling
186.2	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	
186.2	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Yes	Chrysotile	190	Sq.Ft.	
186.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
186.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	Above Ceiling
186.2	54	Light Backing - Silver	Yes	Chrysotile	2	Sq.Ft.	

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186.2	63	Caulk - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	1 Unit 4ft x 11ft
186.2	64	Glazing - On Interior Steel Window Frame	Yes	Chrysotile	1	Sq.Ft.	1 Unit, 4ft x 11ft
187	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	130	Ln.Ft.	A Couple Damaged
187	2	Duct Work Insulation - Jacket Insulation	Yes	Chrysotile	1200	Sq.Ft.	
187	10	Fire Rated Door -	Yes	Assumed	2	Each	Solid Steel, Damaged
187	27	Wood Door - Solid Wood	Yes	Assumed	1	Sq.Ft.	Solid Steel
187	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
187	38	Caulk - Expansion Joint, Grey Brittle	Yes	Chrysotile	1	Sq.Ft.	
187	44	Miscellaneous - Assumed Water Gaskets	Yes	Assumed	30	Sq.Ft.	
187	59	Plaster - Smooth	No	None Detected	3000	Sq.Ft.	
187	93	Vibration Dampener Cloth - Black	No	None Detected	2	Sq.Ft.	
187	94	Caulk - Grey Ductwork	No	None Detected	200	Sq.Ft.	
188	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	400	Ln.Ft.	Vary in Size
188	9	Fire Brick -	Yes	Assumed	30	Sq.Ft.	North Wall at Ductwork
188	10	Fire Rated Door -	Yes	Assumed	3	Each	Assumed Due to Poor Exterior Condition
188	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	

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188	41	Tank Insulation - White	Yes	Amosite	508	Sq.Ft.	1-5ft x 8ft x 5ft, 1-5ft x 10ft x 5ft, 1-2ft x 5ft x 2ft, Damaged
188	44	Miscellaneous - Assumed Water Gaskets	Yes	Assumed	100	Sq.Ft.	
188	51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	1 Unit 16ft x 12ft
188	95	Miscellaneous - Rope Gasket - Hurst Boiler	Yes	Assumed	4	Sq.Ft.	Two on Each Side of Two Hurst Boilers
188	96	Boiler Material (inside) - 2009 Hurst Boilers, 5ft x 10ft x 5ft.	Yes	Assumed	500	Sq.Ft.	2 Units
188	97	Boiler Material (inside) - Steam-Pak 1960, 6ft x 18ft x 6ft	Yes	Assumed	504	Sq.Ft.	1 Unit
188	98	Boiler Insulation - Interior Jacketing - Steam Pak Boiler	No	None Detected	0	Sq.Ft.	Not Quantified
188	99	Boiler Insulation - Interior Jacketing - Hurst Boiler	No	None Detected	0	Sq.Ft.	Not Quantified
188	100	Pipe Insulation - Fiberglass	No	None Detected	0	Ln.Ft.	Not Quantified
188	101	Miscellaneous - Fire Hose	Yes	Assumed	5	Sq.Ft.	Individual Hoses. Varying diameter
188	102	Miscellaneous - Rope Gasket, Spools	Yes	Assumed	2	Sq.Ft.	
188	103	Glazing - On Exterior Aluminum Window Frame	Yes	Chrysotile	1	Sq.Ft.	1 Unit 16ft x 12ft
189	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	80	Ln.Ft.	
189	10	Fire Rated Door -	Yes	Assumed	1	Each	
189	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
190	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	No	None Detected	1200	Sq.Ft.	

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190	108	Cove Base - 4in Light Blue	No	None Detected	10	Sq.Ft.	
190	109	Floor Tile & Mastic - Assumed Under Cabinets	Yes	Assumed	100	Sq.Ft.	North, South, and West Walls
190	110	Ceramic Tile & Grout - 4in x 6in Grey with Black Dots	Yes	Assumed	5	Sq.Ft.	Window Sill
190	111	Laboratory Counter Top - Black	Yes	Assumed	115	Sq.Ft.	
190	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	At Sinks
190	113	Glue - Assumed Behind Visual Display Board	Yes	Assumed	96	Sq.Ft.	North Wall
190	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
190	115	Fire Rated Door -	Yes	Assumed	1	Each	Wood with 4in x 2ft Window
190	116	Caulk - On Exterior Steel Door Frame	No	None Detected	1	Sq.Ft.	
190	117	Wood Door -	Yes	Assumed	1	Sq.Ft.	Steel with 2ft x 4ft Window
190	118	Vibration Dampener Cloth - Black	No	None Detected	1	Sq.Ft.	
190	119	Caulk - On Exterior Wood Window Frame	No	None Detected	1	Sq.Ft.	2 Units, 6ft x 4ft
190.1	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	No	None Detected	165	Sq.Ft.	
190.1	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
190.1	115	Fire Rated Door -	Yes	Assumed	1	Each	Wood with 2ft x 4ft Window
191	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	No	None Detected	60	Sq.Ft.	

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Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
191	108	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
191	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
191	115	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood
192	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	No	None Detected	925	Sq.Ft.	
192	108	Cove Base - 4in Light Blue	No	None Detected	10	Sq.Ft.	
192	113	Glue - Assumed Behind Visual Display Board	Yes	Assumed	96	Sq.Ft.	West Wall
192	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
192	115	Fire Rated Door -	Yes	Assumed	1	Each	Wood with 4in x 2ft Window
192	116	Caulk - On Exterior Steel Door Frame	No	None Detected	1	Sq.Ft.	
192	117	Wood Door -	Yes	Assumed	1	Sq.Ft.	Steel with 2ft x 4ft Window
192	121	Ceiling Tile - 2ft x 4ft White with Random Size Pinholes	No	None Detected	925	Sq.Ft.	
193	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	No	None Detected	60	Sq.Ft.	
193	108	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
193	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
193	115	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood
194	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	No	None Detected	1300	Sq.Ft.	

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194	108	Cove Base - 4in Light Blue	No	None Detected	10	Sq.Ft.	
194	109	Floor Tile & Mastic - Assumed Under Cabinets	Yes	Assumed	100	Sq.Ft.	North, South, and West Walls
194	110	Ceramic Tile & Grout - 4in x 6in Grey with Black Dots	Yes	Assumed	5	Sq.Ft.	Window Sill
194	111	Laboratory Counter Top - Black	Yes	Assumed	115	Sq.Ft.	
194	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	40	Ln.Ft.	At Sinks
194	113	Glue - Assumed Behind Visual Display Board	Yes	Assumed	96	Sq.Ft.	North Wall
194	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
194	115	Fire Rated Door -	Yes	Assumed	1	Each	Wood with 4in x 2ft Window
194	116	Caulk - On Exterior Steel Door Frame	No	None Detected	1	Sq.Ft.	
194	117	Wood Door -	Yes	Assumed	1	Sq.Ft.	Steel with 2ft x 4ft Window
194	118	Vibration Dampener Cloth - Black	No	None Detected	1	Sq.Ft.	
194	119	Caulk - On Exterior Wood Window Frame	No	None Detected	1	Sq.Ft.	2 Units, 6ft x 4ft
194.1	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow	No	None Detected	130	Sq.Ft.	
194.1	108	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
194.1	109	Floor Tile & Mastic - Assumed Under Cabinets	Yes	Assumed	30	Sq.Ft.	North Wall
194.1	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	

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194.1	115	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood
194.2	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow	No	None Detected	250	Sq.Ft.	
194.2	109	Floor Tile & Mastic - Assumed Under Cabinets	Yes	Assumed	50	Sq.Ft.	
194.2	110	Ceramic Tile & Grout - 4in x 6in Grey with Black Dots	Yes	Assumed	20	Sq.Ft.	Window Sills
194.2	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
194.2	115	Fire Rated Door -	Yes	Assumed	1	Each	Wood with 2ft x 4ft Window
194.2	116	Caulk - On Exterior Steel Door Frame	No	None Detected	1	Sq.Ft.	
194.2	117	Wood Door -	Yes	Assumed	1	Sq.Ft.	Steel with 2ft x 4ft Window
194.2	118	Vibration Dampener Cloth - Black	No	None Detected	1	Sq.Ft.	
194.2	119	Caulk - On Exterior Wood Window Frame	No	None Detected	1	Sq.Ft.	
194.2	122	Sink Undercoating - White	No	None Detected	1	Sq.Ft.	2 Sinks
195	113	Glue - Assumed Behind Visual Display Board	Yes	Assumed	400	Sq.Ft.	North and Walls
195	116	Caulk - On Exterior Steel Door Frame	No	None Detected	4	Sq.Ft.	
195	117	Wood Door -	Yes	Assumed	6	Sq.Ft.	Steel with 2ft x 4ft Windows
195	119	Caulk - On Exterior Wood Window Frame	No	None Detected	1	Sq.Ft.	9 Units, 2ft x 5ft
195	123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	Yes	Assumed	2500	Sq.Ft.	

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195	124	Cove Base - 4in Black	No	None Detected	15	Sq.Ft.	
195	125	Caulk - Expansion Joint	No	None Detected	1	Sq.Ft.	
196	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
196	117	Wood Door -	Yes	Assumed	1	Sq.Ft.	
196	121	Ceiling Tile - 2ft x 4ft White with Random Size Pinholes	No	None Detected	150	Sq.Ft.	
196	126	Caulk - Interior Steel Window Frame	No	None Detected	1	Sq.Ft.	6ft x 3ft
196	126	Caulk - Interior Steel Window Frame	No	None Detected	1	Sq.Ft.	1 Unit, 6ft x 4ft
197	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
197	115	Fire Rated Door -	Yes	Assumed	1	Each	Solid Wood
197	125	Caulk - Expansion Joint	No	None Detected	1	Sq.Ft.	
197	127	Caulk - Grey, Ductwork	No	None Detected	0	Sq.Ft.	Not Quantified
198	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	60	Ln.Ft.	At Showers, Sinks and Toilets
198	114	Caulk - On Interior Steel Door Frame	No	None Detected	2	Sq.Ft.	
198	117	Wood Door -	Yes	Assumed	2	Sq.Ft.	Solid Steel
198	123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	Yes	Assumed	800	Sq.Ft.	
198	128	Ceramic Tile & Grout - 2in x 2in Tan	Yes	Assumed	150	Sq.Ft.	

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198	129	Plaster - White with Rough Bumpy Texture	No	None Detected	450	Sq.Ft.	
199	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	60	Ln.Ft.	At Showers, Sinks and Toilets
199	114	Caulk - On Interior Steel Door Frame	No	None Detected	2	Sq.Ft.	
199	117	Wood Door -	Yes	Assumed	2	Sq.Ft.	Solid Steel
199	123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	Yes	Assumed	800	Sq.Ft.	
199	128	Ceramic Tile & Grout - 2in x 2in Tan	Yes	Assumed	150	Sq.Ft.	
199	129	Plaster - White with Rough Bumpy Texture	No	None Detected	450	Sq.Ft.	
200	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
200	116	Caulk - On Exterior Steel Door Frame	No	None Detected	2	Sq.Ft.	Doors 14 and 19
200	117	Wood Door -	Yes	Assumed	1	Sq.Ft.	Steel with 2ft x 4ft Window
200	121	Ceiling Tile - 2ft x 4ft White with Random Size Pinholes	No	None Detected	400	Sq.Ft.	
200	123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	Yes	Assumed	410	Sq.Ft.	Floor and Cove Base
201	108	Cove Base - 4in Light Blue	No	None Detected	5	Sq.Ft.	
201	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	At Sink
201	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
201	115	Fire Rated Door -	Yes	Assumed	1	Each	Solid Steel

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201	121	Ceiling Tile - 2ft x 4ft White with Random Size Pinholes	No	None Detected	40	Sq.Ft.	
202	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	5	Ln.Ft.	At Sink
202	114	Caulk - On Interior Steel Door Frame	No	None Detected	1	Sq.Ft.	
202	115	Fire Rated Door -	Yes	Assumed	1	Each	Solid Steel
202	121	Ceiling Tile - 2ft x 4ft White with Random Size Pinholes	No	None Detected	40	Sq.Ft.	
Exterior - Addition 1	130	Brick & Mortar - Addition 1	No	None Detected	0	Sq.Ft.	Not Quantified
Exterior - Addition 1	131	Texture - On Soffits, Addition 1	No	None Detected	0	Sq.Ft.	Not Quantified
Exterior - Orig. Building	5	Transite - Siding	Yes	Assumed	1	Sq.Ft.	
Exterior - Orig. Building	104	Miscellaneous - Brick and Mortar, Original Building	No	None Detected	0	Sq.Ft.	Not Quantified
Exterior - Orig. Building	105	Caulk - Exterior Louver	Yes	Chrysotile	1	Sq.Ft.	
Exterior - Orig. Building	106	Texture - On Exterior Transite Panels	Yes	Assumed	2000	Sq.Ft.	
Hall 101	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	3800	Sq.Ft.	Assumed Above Drywall Ceiling
Hall 101	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	1	Sq.Ft.	20 Units 16ft x 10ft Windows
Hall 101	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	Doors 24 and 25
Hall 101	17	Glazing - Door With Dual 2ft x 4ft Windows	Yes	Chrysotile	1	Sq.Ft.	4 Units, Doors Labeled 24 and 25
Hall 101	18	Caulk - On Concrete Frame, Grey Pliable	No	None Detected	2	Sq.Ft.	Doors 24 and 25

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Inspection Report

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Hall 101	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	30	Sq.Ft.	Painted Blue, Used as Cove Base on North Wall
Hall 101	24	Drywall & Joint Compound -	No	None Detected	3800	Sq.Ft.	Two Layers, One Below and One Above Assumed Glued On Ceiling Tile
Hall 101	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	60	Sq.Ft.	North Wall
Hall 101	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	25	Ln.Ft.	South Wall Heaters
Hall 101	35	Cove Base - 4in Black	No	None Detected	20	Sq.Ft.	
Hall 102	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	50	Ln.Ft.	Above Ceiling, Vary in Size
Hall 102	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	600	Sq.Ft.	Assumed Above Drywall
Hall 102	24	Drywall & Joint Compound -	No	None Detected	600	Sq.Ft.	Ceiling, Second Layer Assumed Above Glued On Ceiling Tile
Hall 102	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
Hall 103	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	3800	Sq.Ft.	Assumed Above Drywall Ceiling
Hall 103	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	1	Sq.Ft.	20 Units 16ft x 10ft Windows
Hall 103	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	Doors 22 and 23
Hall 103	17	Glazing - Door With Dual 2ft x 4ft Windows	Yes	Chrysotile	1	Sq.Ft.	4 Units, Doors Labeled 22 and 23
Hall 103	18	Caulk - On Concrete Frame, Grey Pliable	No	None Detected	2	Sq.Ft.	Doors 22 and 23
Hall 103	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	30	Sq.Ft.	Painted Blue, Used as Cove Base on South Wall
Hall 103	24	Drywall & Joint Compound -	No	None Detected	3500	Sq.Ft.	Two Layers, One Below and One Above Assumed Glued On Ceiling Tile

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Hall 103	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	60	Sq.Ft.	North Wall
Hall 103	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	35	Ln.Ft.	North Wall Heaters and Water Fountains
Hall 103	35	Cove Base - 4in Black	No	None Detected	20	Sq.Ft.	
Hall 104	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	2700	Sq.Ft.	Assumed Above Drywall Ceiling
Hall 104	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	1	Sq.Ft.	20 Units 16ft x 10ft Windows
Hall 104	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	Door 26
Hall 104	17	Glazing - Door With Dual 2ft x 4ft Windows	Yes	Chrysotile	1	Sq.Ft.	2 Units, Door Labeled 26
Hall 104	18	Caulk - On Concrete Frame, Grey Pliable	No	None Detected	1	Sq.Ft.	Door 26
Hall 104	19	Glazing - On Door with 2ft x 5ft Window	Yes	Chrysotile	0	Sq.Ft.	Door 31, Abated April 2023
Hall 104	20	Caulk - On Exterior Steel Transom, Grey, Brittle	Yes	Chrysotile	0	Sq.Ft.	Door 31, Abated April 2023
Hall 104	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	30	Sq.Ft.	Painted Blue, Used as Cove Base on East Wall
Hall 104	24	Drywall & Joint Compound -	No	None Detected	2700	Sq.Ft.	Two Layers, One Below and One Above Assumed Glued On Ceiling Tile
Hall 104	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	100	Ln.Ft.	Above Ceiling
Hall 104	35	Cove Base - 4in Black	No	None Detected	20	Sq.Ft.	
Hall 104	38	Caulk - Expansion Joint, Grey Brittle	Yes	Chrysotile	1	Sq.Ft.	
Hall 104	49	Flooring - Terrazzo, Yellowish Tan	No	None Detected	100	Sq.Ft.	North Stairs

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Hall 105	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	720	Sq.Ft.	Assumed Above Drywall Ceiling
Hall 105	24	Drywall & Joint Compound -	No	None Detected	720	Sq.Ft.	Two Layers, One Below and One Above Assumed Glued On Ceiling Tile
Hall 105	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	48	Sq.Ft.	East Wall
Hall 105	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	10	Ln.Ft.	East Wall Heater and Above Ceiling
Hall 105	35	Cove Base - 4in Black	No	None Detected	20	Sq.Ft.	
Hall 105	53	Miscellaneous - Tack Board	Yes	Assumed	48	Sq.Ft.	
Hall 106	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	2500	Sq.Ft.	Assumed Above Drywall Ceiling
Hall 106	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	1	Sq.Ft.	20 Units 16ft x 10ft Windows
Hall 106	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	Door 4
Hall 106	17	Glazing - Door With Dual 2ft x 4ft Windows	Yes	Chrysotile	1	Sq.Ft.	2 Units, Door 4
Hall 106	18	Caulk - On Concrete Frame, Grey Pliable	No	None Detected	1	Sq.Ft.	Door 4
Hall 106	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	30	Sq.Ft.	Painted Blue, Used as Cove Base on North Wall
Hall 106	24	Drywall & Joint Compound -	No	None Detected	2500	Sq.Ft.	Two Layers, One Below and One Above Assumed Glued On Ceiling Tile
Hall 106	25	Glue - Assumed Behind Visual Display Board	Yes	Assumed	60	Sq.Ft.	South Wall
Hall 106	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	125	Ln.Ft.	South Wall Heaters and Above Ceiling
Hall 106	35	Cove Base - 4in Black	No	None Detected	20	Sq.Ft.	

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Room Number	*Material Number*	*Homogeneous Material Description*	*Asbestos Detected*	*Asbestos Type*	*Quantity*	*Units*	*Comments*
Hall 107	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	1500	Sq.Ft.	Assumed Above Drywall
Hall 107	24	Drywall & Joint Compound -	No	None Detected	1500	Sq.Ft.	
Hall 107	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	50	Ln.Ft.	Above Ceiling
Hall 107	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
Hall 107	38	Caulk - Expansion Joint, Grey Brittle	Yes	Chrysotile	1	Sq.Ft.	
Hall 107	59	Plaster - Smooth	No	None Detected	1500	Sq.Ft.	
Hall 108	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	500	Sq.Ft.	
Hall 108	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	0	Sq.Ft.	Door 11, Abated April 2023
Hall 108	15	Glazing - On Exterior Steel Sidelight, Grey, Brittle	Yes	Chrysotile	0	Sq.Ft.	Door 11, Abated April 2023
Hall 108	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	75	Ln.Ft.	25 at Heaters 50 Above Ceiling
Hall 108	35	Cove Base - 4in Black	No	None Detected	10	Sq.Ft.	
Hall 108	38	Caulk - Expansion Joint, Grey Brittle	Yes	Chrysotile	1	Sq.Ft.	
Hall 108	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	500	Sq.Ft.	
Hall 108	59	Plaster - Smooth	No	None Detected	500	Sq.Ft.	Assumed Above Ceiling Tile
Hall 109	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	500	Sq.Ft.	
Hall 109	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	1	Sq.Ft.	10 Units, 16ft x 12ft

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Hall 109	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	0	Sq.Ft.	Door 6, Abated April 2023
Hall 109	17	Glazing - Door With Dual 2ft x 4ft Windows	Yes	Chrysotile	0	Sq.Ft.	Door 6, Abated April 2023
Hall 109	18	Caulk - On Concrete Frame, Grey Pliable	No	None Detected	1	Sq.Ft.	Door 6
Hall 109	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	15	Sq.Ft.	As Cove Base
Hall 109	35	Cove Base - 4in Black	No	None Detected	15	Sq.Ft.	
Hall 109	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	500	Sq.Ft.	
Hall 109	49	Flooring - Terrazzo, Yellowish Tan	No	None Detected	600	Sq.Ft.	
Hall 109	59	Plaster - Smooth	No	None Detected	500	Sq.Ft.	Above Ceiling Tile
Hall 109	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Yes	Chrysotile	12	Sq.Ft.	Contaminated with Acoustical Ceiling
Hall 109	70	Acoustical Ceiling - White, Bumpy and Rough Texture	No	None Detected	2000	Sq.Ft.	
Hall 109	85	Caulk - On Exterior Aluminum Storefront Frame	Yes	Chrysotile	2	Sq.Ft.	One frame has old caulk present under new caulk. Door 7
Hall 109	86	Glazing - On Exterior Aluminum Storefront Frame	Yes	Chrysotile	1	Sq.Ft.	Door 7
Hall 110	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Yes	Amosite	800	Sq.Ft.	Assumed Above Tile
Hall 110	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	50	Ln.Ft.	Above Ceiling
Hall 110	35	Cove Base - 4in Black	No	None Detected	15	Sq.Ft.	
Hall 110	38	Caulk - Expansion Joint, Grey Brittle	Yes	Chrysotile	1	Sq.Ft.	

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Hall 110	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	800	Sq.Ft.	
Hall 110	59	Plaster - Smooth	No	None Detected	800	Sq.Ft.	Assumed Above Tile
Hall 111	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	17	Sq.Ft.	8 Units 3ft x 5ft
Hall 111	24	Drywall & Joint Compound -	No	None Detected	500	Sq.Ft.	Above Windows
Hall 111	27	Wood Door - Solid Wood	Yes	Assumed	4	Sq.Ft.	Solid Steel
Hall 111	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	2	Sq.Ft.	
Hall 111	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	70	Ln.Ft.	20 At Heaters and 50 Above Ceiling
Hall 111	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	1600	Sq.Ft.	
Hall 111	88	Floor Tile & Mastic - 12in x 12in White and Blue, Light Blue Flecks	No	None Detected	1600	Sq.Ft.	
Hall 112	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	Solid Steel
Hall 112	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
Hall 112	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	50	Ln.Ft.	10 at North Wall Fountains and 40 Above Ceiling
Hall 112	35	Cove Base - 4in Black	No	None Detected	5	Sq.Ft.	
Hall 112	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	1100	Sq.Ft.	
Hall 112	88	Floor Tile & Mastic - 12in x 12in White and Blue, Light Blue Flecks	No	None Detected	1100	Sq.Ft.	
Hall 113	5	Transite - Siding	Yes	Assumed	50	Sq.Ft.	Door 12 Window Blanks

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Hall 113	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	No	None Detected	3	Sq.Ft.	3 Units, 3ft x 5ft
Hall 113	23	Ceramic Block & Grout - 18in x 4in Grey	Yes	Assumed	10	Sq.Ft.	Cove Base
Hall 113	24	Drywall & Joint Compound -	No	None Detected	1000	Sq.Ft.	Walls and Above Ceiling
Hall 113	27	Wood Door - Solid Wood	Yes	Assumed	2	Sq.Ft.	With 3ft x 4ft Window
Hall 113	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Yes	Chrysotile	1	Sq.Ft.	
Hall 113	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Yes	Assumed	50	Ln.Ft.	Assumed Above Ceiling and At East Wall Heaters
Hall 113	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	No	None Detected	2500	Sq.Ft.	
Hall 113	49	Flooring - Terrazzo, Yellowish Tan	No	None Detected	2650	Sq.Ft.	
Hall 113	85	Caulk - On Exterior Aluminum Storefront Frame	Yes	Chrysotile	2	Sq.Ft.	Door 12
Hall 113	86	Glazing - On Exterior Aluminum Storefront Frame	Yes	Chrysotile	2	Sq.Ft.	Door 12
Hall 113	91	Glazing - On Trophy Case, Brown/Grey, Brittle	Yes	Chrysotile	4	Sq.Ft.	4 Windows, 2 6ft x 8ft 2 6ft x 3ft
Tunnel - East	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	300	Ln.Ft.	
Tunnel - East	45	Miscellaneous - Black Tar on Tunnel Wall	Yes	Chrysotile	25	Sq.Ft.	
Tunnel - West	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Yes	Amosite	100	Ln.Ft.	

Sample Location Report

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101	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	107	Southwest Corner Above Ceiling
102	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	119	4ft West of Southeast Corner 6ft From Floor
103	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	119	6ft West of Northeast Corner 6ft From Floor
104	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	119	6ft West of Northeast Corner 4ft From Floor
105	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	165	Middle of Room 3ft From Floor
201	2	Duct Work Insulation - Jacket Insulation	119	20ft North of Southeast Corner 6ft From Floor
202	2	Duct Work Insulation - Jacket Insulation	119	8ft North 12 ft West of Southeast Corner at Damage
301	3	Pipe Insulation - Roof Drain	114	Above Ceiling
401	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	107	5ft North 9ft East of Southwest Corner
402	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	129	Floor Debris
403	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	159	At Damage
404	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	160.2	At Damage
405	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	162	At Debris
406	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	136.1	SE Corner
407	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	132	NE Corner
408	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	163.1	Above Door

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409	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	163.6	Above Door
410	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	170	NE Corner
411	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	169	NE Corner
601	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	101	Southwest Corner
602	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	131.2	At Damage
701	7	Vibration Dampener Cloth - White	119	20ft North 10ft West of Southeast Corner
702	7	Vibration Dampener Cloth - White	119	6ft North 5ft East of Southwest Corner
703	7	Vibration Dampener Cloth - White	141.1	At Floor by Door
1101	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	101	6ft South of Northeast Corner at Bottom
1102	11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	129	Southwest Corner
1201	12	Laboratory Counter Top -	131.1	Northwest Corner of Countertop
1301	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	167	Exterior Door 8 Near Room 500
1302	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	167	Exterior Door 6 Near Room 501
1401	14	Caulk - On Exterior Steel Sidelight, Grey, Brittle	Hall 108	Exterior Door 11 Near Room 600
1402	14	Caulk - On Exterior Steel Sidelight, Grey, Brittle	Hall 108	Exterior Door 11 Near Room 600
1501	15	Glazing - On Exterior Steel Sidelight, Grey, Brittle	Hall 108	Exterior Door 11 Near Room 600

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1502	15	Glazing - On Exterior Steel Sidelight, Grey, Brittle	Hall 108	Exterior Door 11 Near Room 600
1601	16	Texture - Above Door Frame, White, Bumpy	Hall 108	Exterior Door 11 Near Room 600 Above Doorway
1602	16	Texture - Above Door Frame, White, Bumpy	Hall 108	Exterior Door 11 Near Room 600 Above Doorway
1603	16	Texture - Above Door Frame, White, Bumpy	167	Exterior Door 11 Near Room 600 Above Doorway
1701	17	Glazing - Door With Dual 2ft x 4ft Windows	Hall 109	Exterior Door 6 Near Room 501
1702	17	Glazing - Door With Dual 2ft x 4ft Windows	Hall 109	Exterior Door 6 Near Room 501
1801	18	Caulk - On Concrete Frame, Grey Pliable	Hall 109	Exterior Door 6 Near Room 501 On Concrete Frame
1802	18	Caulk - On Concrete Frame, Grey Pliable	Hall 109	Exterior Door 6 Near Room 501 On Concrete Frame
1901	19	Glazing - On Door with 2ft x 5ft Window	Hall 104	Exterior Door 31 Near Room 206
1902	19	Glazing - On Door with 2ft x 5ft Window	Hall 104	Exterior Door 31 Near Room 206
2001	20	Caulk - On Exterior Steel Transom, Grey, Brittle	Hall 104	Exterior Door 31 Near Room 206
2002	20	Caulk - On Exterior Steel Transom, Grey, Brittle	Hall 104	Exterior Door 31 Near Room 206
2101	21	Cove Base - 4in Grey	101	3ft North of Southwest Corner
2102	21	Cove Base - 4in Grey	108	East Side of Frame
2201	22	Cove Base - 4in Light Blue	101	Southwest Corner
2202	22	Cove Base - 4in Light Blue	107	Southeast Side of South Frame

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2401	24	Drywall & Joint Compound -	101	6ft West of Southeast Corner Behind Outlet
2402	24	Drywall & Joint Compound -	116	At Half Wall
2801	28	Glazing - On Interior Steel Storefront Frame	101	Middle of South Pane
2802	28	Glazing - On Interior Steel Storefront Frame	129	South Side of South Pane Bottom
2901	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	102	At Tunnel Access Hatch at Damage
3001	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	102	West Side of Frame 5ft From Floor
3002	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	119	West Side of Frame 4ft From Floor
3003	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	134	South Door Frame
3101	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	108	At Tunnel Access Hatch At Damage
3501	35	Cove Base - 4in Black	Hall 101	East Side of Room 107 Door Frame
3502	35	Cove Base - 4in Black	Hall 103	At Water Fountains
3701	37	Caulk - On Bathroom Stalls	114	East Stall 5ft From Floor
3702	37	Caulk - On Bathroom Stalls	152	Top of First Stall
3801	38	Caulk - Expansion Joint, Grey Brittle	119	5 ft From Floor
3802	38	Caulk - Expansion Joint, Grey Brittle	Hall 104	North Wall 4ft Above Floor
3803	38	Caulk - Expansion Joint, Grey Brittle	160.3	At Joint 4ft From Floor

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
Oscoda, MI 48750
Printed: November 5, 2023

Sample Location Report

Sample Number	*Material Number*	*Homogeneous Material Description*	*Room Number*	*Sample Location*
3901	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	120	6ft North 6ft West of Southeast Corner
3902	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	145	12 ft East 10ft South of Northwest Corner
3903	39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	154	Middle of Room
4001	40	Caulk - On Interior Steel Storefront Frame	129	North Side of Frame 4ft From Floor
4101	41	Tank Insulation - White	119	Bottom of Tank
4102	41	Tank Insulation - White	188	West Most Tank
4103	41	Tank Insulation - White	188	South Most Tank
4201	42	Glue - Black, Behind Fiberglass/Jacket Insulation	119	8ft North of Southwest Corner at Damage
4202	42	Glue - Black, Behind Fiberglass/Jacket Insulation	119	8ft North of Southwest Corner at Damage
4301	43	Caulk - Brown, Brittle, Duct Work Caulk	119	20ft North of Southeast Corner 6ft From Floor
4401	44	Miscellaneous - Assumed Water Gaskets	187	Floor Debris
4402	44	Miscellaneous - Assumed Water Gaskets	187	Floor Debris
4501	45	Miscellaneous - Black Tar on Tunnel Wall	Tunnel - East	On Wall
4502	45	Miscellaneous - Black Tar on Tunnel Wall	Tunnel - East	On Wall
4503	45	Miscellaneous - Black Tar on Tunnel Wall	165.1	Middle of Wall
4601	46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	130	10ft South of Northwest Corner

Northern Analytical Services

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Customer: Oscoda Area Schools
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Address: 3550 River Road
Oscoda, MI 48750

Printed: November 5, 2023

Sample Location Report

Sample Number	*Material Number*	*Homogeneous Material Description*	*Room Number*	*Sample Location*
4701	47	Sink Undercoating - Pink	133	Under Sink
4702	47	Sink Undercoating - Pink	132	At Sink
4801	48	Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic	134	Northwest Corner
4802	48	Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic	160.2	Northwest Corner
4901	49	Flooring - Terrazzo, Yellowish Tan	156	At Damage
4902	49	Flooring - Terrazzo, Yellowish Tan	155	Stairs
5101	51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	137	South Side of Exterior Side of Frame
5102	51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	139	Exterior Side of Frame
5201	52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	158.4	At Damage
5202	52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	158.4	At Damage
5401	54	Light Backing - Silver	140.1	At Light
5402	54	Light Backing - Silver	145.1	At light
5403	54	Light Backing - Silver	186.1	At Light
5501	55	Caulk - On Interior Steel Sidelight Frame	141	West Frame 4ft From Floor
5502	55	Caulk - On Interior Steel Sidelight Frame	145.2	North Side of Frame
5601	56	Glazing - On Interior Steel Sidelight Frame	141	West Frame Bottom of Pane

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
Oscoda, MI 48750

Printed: November 5, 2023

Sample Location Report

Sample Number	*Material Number*	*Homogeneous Material Description*	*Room Number*	*Sample Location*
5701	57	Sink Undercoating - Black	143	Under Sink
5801	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	170	Doorway
5802	58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	169	Doorway
5901	59	Plaster - Smooth	145	8ft South of Northeast Corner Above Ceiling
5902	59	Plaster - Smooth	145	8ft South of Northeast Corner Above Ceiling
5903	59	Plaster - Smooth	158.4	At Damage
5904	59	Plaster - Smooth	Hall 109	40ft West 8ft South of Northeast Corner
5905	59	Plaster - Smooth	175	8ft South 6ft West of Northeast Corner
5906	59	Plaster - Smooth	176	Middle of Room At Damage
5907	59	Plaster - Smooth	175	10ft North of Southeast Corner
6001	60	Floor Tile & Mastic - 12in x 12 in White with Grey and Silver Streaks and Blotches	145.1	Northeast Corner
6002	60	Floor Tile & Mastic - 12in x 12 in White with Grey and Silver Streaks and Blotches	145.1	SE Corner
6101	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	145.2	8ft South of Northwest Corner
6102	61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	148	Northeast Corner
6201	62	Sink Undercoating - White	145.2	Under Sink
6202	62	Sink Undercoating - White	145.2	Under Sink

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School
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Oscoda, MI 48750

Printed: November 5, 2023

Sample Location Report

Sample Number	*Material Number*	*Homogeneous Material Description*	*Room Number*	*Sample Location*
6203	62	Sink Undercoating - White	147	Under Sink
6301	63	Caulk - On Interior Steel Window Frame	154.2	South Side of Frame 4ft From Floor
6401	64	Glazing - On Interior Steel Window Frame	147	At Frame Bottom
6402	64	Glazing - On Interior Steel Window Frame	148	Bottom of Pane
6403	64	Glazing - On Interior Steel Window Frame	154.2	At Window
6601	66	Acoustical Ceiling - White with Fluffy/Flakey Texture	154	NW Corner
6602	66	Acoustical Ceiling - White with Fluffy/Flakey Texture	154	NE Corner
6603	66	Acoustical Ceiling - White with Fluffy/Flakey Texture	154	SE Corner
6701	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	154	At Exposed Clock/Speaker Well
6702	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	154.2	At Exposed Clock/Speaker Backing
6801	68	Floor Tile & Mastic - 12in x 12 in White with Purple, Dark Blue, and Grey Spots	154.1	Northwest Corner
6802	68	Floor Tile & Mastic - 12in x 12 in White with Purple, Dark Blue, and Grey Spots	154.1	4ft North Southeast Corner
6901	69	Floor Tile & Mastic - Grey with Dark Grey and White Streaks	154.3	Northeast Corner
6902	69	Floor Tile & Mastic - Grey with Dark Grey and White Streaks	154.3	Northeast Corner
7001	70	Acoustical Ceiling - White, Bumpy and Rough Texture	155	38ft South 89ft East of Northwest Corner
7002	70	Acoustical Ceiling - White, Bumpy and Rough Texture	155	13ft South of Northwest Corner At Damage

Northern Analytical Services

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Customer: Oscoda Area Schools
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Printed: November 5, 2023

Sample Location Report

Sample Number	*Material Number*	*Homogeneous Material Description*	*Room Number*	*Sample Location*
7003	70	Acoustical Ceiling - White, Bumpy and Rough Texture	155	38 ft South of Northwest Corner
7004	70	Acoustical Ceiling - White, Bumpy and Rough Texture	155	80ft South of Northwest Corner At Damage
7005	70	Acoustical Ceiling - White, Bumpy and Rough Texture	155	110ft South 24ft East of Northwest Corner At Damage
7006	70	Acoustical Ceiling - White, Bumpy and Rough Texture	155	110ft South 58ft East of Northwest Corner
7007	70	Acoustical Ceiling - White, Bumpy and Rough Texture	155	110ft South 16ft West of Northeast Corner
7701	77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	163	At Door
7702	77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	163.1	Bottom of Window
7801	78	Cement Board - Green With Holes	163.1	Northwest Corner
7802	78	Cement Board - Green With Holes	163.6	At Damage
7901	79	Miscellaneous - Black Tar on Fiberglass Mats	163.1	At Exposed Damage
7902	79	Miscellaneous - Black Tar on Fiberglass Mats	163.6	At Damage
7903	79	Miscellaneous - Black Tar on Fiberglass Mats	163.1	Behind Door
8001	80	Flooring-Carpet Glue - Yellow	166	6ft South 4ft East of Northwest Corner
8002	80	Flooring-Carpet Glue - Yellow	166.1	Middle of Room
8201	82	Curtain - Black, Stage	167	West End of Curtain at Bottom
8202	82	Curtain - Black, Stage	167	East End of Stage at Bottom of Middle Curtain

Northern Analytical Services

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Customer: Oscoda Area Schools
Building: Oscoda High School
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Printed: November 5, 2023

Sample Location Report

Sample Number	*Material Number*	*Homogeneous Material Description*	*Room Number*	*Sample Location*
8301	83	Curtain - Blue, Stage	167	Middle of Curtain at Bottom
8302	83	Curtain - Blue, Stage	167	West End of Curtain at Bottom
8401	84	Ceramic Tile & Grout - 2in x 2in Tan	176.05	5ft North of Southeast Corner At Damage
8402	84	Ceramic Tile & Grout - 2in x 2in Tan	176.05	5ft North of Southeast Corner At Damage
8501	85	Caulk - On Exterior Aluminum Storefront Frame	Hall 109	South Side of Frame
8502	85	Caulk - On Exterior Aluminum Storefront Frame	Hall 113	North Side of Frame
8601	86	Glazing - On Exterior Aluminum Storefront Frame	Hall 109	South Side of Frame Bottom Pane
8602	86	Glazing - On Exterior Aluminum Storefront Frame	Hall 113	North Side of Frame
8801	88	Floor Tile & Mastic - 12in x 12in White and Blue, Light Blue Flecks	Hall 110	Southwest Corner
8802	88	Floor Tile & Mastic - 12in x 12in White and Blue, Light Blue Flecks	Hall 111	Southwest Corner Under Stairs
9001	90	Vinyl Sheet Flooring - Blue	175	Southwest Corner
9002	90	Vinyl Sheet Flooring - Blue	175	Southeast Corner
9101	91	Glazing - On Trophy Case, Brown/Grey, Brittle	Hall 113	Top Right Pane
9201	92	Caulk - On Interior Aluminum Door Frame, Hard, Grey	185	At Frame
9202	92	Caulk - On Interior Aluminum Door Frame, Hard, Grey	185.1	East Side At Frame
9301	93	Vibration Dampener Cloth - Black	187	8ft North 5ft East of Southwest Corner

Northern Analytical Services

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Customer: Oscoda Area Schools
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Printed: November 5, 2023

Sample Location Report

Sample Number	*Material Number*	*Homogeneous Material Description*	*Room Number*	*Sample Location*
9302	93	Vibration Dampener Cloth - Black	187	4ft North 6ft East of Southwest Corner
9401	94	Caulk - Grey Ductwork	187	8ft North, 6ft East of Southwest Corner
9402	94	Caulk - Grey Ductwork	187	8ft North 6ft East of Southwest Corner
9801	98	Boiler Insulation - Interior Jacketing - Steam Pak Boiler	188	Steam-Pak Boiler
9802	98	Boiler Insulation - Interior Jacketing - Steam Pak Boiler	188	Steam-Pak Boiler
9803	98	Boiler Insulation - Interior Jacketing - Steam Pak Boiler	188	Steam-Pak Boiler
9901	99	Boiler Insulation - Interior Jacketing - Hurst Boiler	188	South Most Hurst Boiler
9902	99	Boiler Insulation - Interior Jacketing - Hurst Boiler	188	South Most Hurst Boiler
9903	99	Boiler Insulation - Interior Jacketing - Hurst Boiler	188	North Most Hurst Boiler
10001	100	Pipe Insulation - Fiberglass	188	8ft East 16ft South of Northwest Corner
10002	100	Pipe Insulation - Fiberglass	188	8ft East 8ft South of Northwest Corner
10003	100	Pipe Insulation - Fiberglass	188	Southwest Corner
10301	103	Glazing - On Exterior Aluminum Window Frame	188	West Side of Frame
10302	103	Glazing - On Exterior Aluminum Window Frame	188	West Side of Frame
10401	104	Miscellaneous - Brick and Mortar, Original Building	Exterior - Orig. Build	SW Corner of 185
10402	104	Miscellaneous - Brick and Mortar, Original Building	Exterior - Orig. Build	SE Corner of 185

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
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Printed: November 5, 2023

Sample Location Report

Sample Number	*Material Number*	*Homogeneous Material Description*	*Room Number*	*Sample Location*
10501	105	Caulk - Exterior Louver	Exterior - Orig. Build	Outside Room 139
10502	105	Caulk - Exterior Louver	Exterior - Orig. Build	Outside Room 139
10701	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	194.2	Northwest Corner
10702	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	---	
10703	107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	194.2	Northeast Corner
10801	108	Cove Base - 4in Light Blue	190	South Side of Interior Frame
10802	108	Cove Base - 4in Light Blue	201	South Side of Frame
10901	109	Floor Tile & Mastic - Assumed Under Cabinets	190.1	3ft South of Northeast Corner
11401	114	Caulk - On Interior Steel Door Frame	194.2	East Side of Frame
11402	114	Caulk - On Interior Steel Door Frame	190	South Side of Door Frame
11601	116	Caulk - On Exterior Steel Door Frame	190	South Side of Frame
11602	116	Caulk - On Exterior Steel Door Frame	195	Northwest Frame
11801	118	Vibration Dampener Cloth - Black	190	East Side of Room, North Side End of Unit
11802	118	Vibration Dampener Cloth - Black	190	East Side of Room, South Side of Unit
11901	119	Caulk - On Exterior Wood Window Frame	190	West Side of East Window
11902	119	Caulk - On Exterior Wood Window Frame	---	

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
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Printed: November 5, 2023

Sample Location Report

Sample Number	*Material Number*	*Homogeneous Material Description*	*Room Number*	*Sample Location*
11903	119	Caulk - On Exterior Wood Window Frame	194.2	North Side of Frame
12101	121	Ceiling Tile - 2ft x 4ft White with Random Size Pinholes	192	10ft East 8ft South of Northwest Corner
12102	121	Ceiling Tile - 2ft x 4ft White with Random Size Pinholes	200	24ft South of Northeast Corner
12201	122	Sink Undercoating - White	194.2	Under Sink
12202	122	Sink Undercoating - White	194.2	Under Sink
12401	124	Cove Base - 4in Black	195	East Wall
12402	124	Cove Base - 4in Black	195	SW Corner
12501	125	Caulk - Expansion Joint	195	West Wall 3ft From Floor
12502	125	Caulk - Expansion Joint	197	On Wall
12601	126	Caulk - Interior Steel Window Frame	196	Bottom of Frame
12602	126	Caulk - Interior Steel Window Frame	196	North Side of Frame
12701	127	Caulk - Grey, Ductwork	197	On Duct
12702	127	Caulk - Grey, Ductwork	197	On Duct
12901	129	Plaster - White with Rough Bumpy Texture	198	Middle of Room
12902	129	Plaster - White with Rough Bumpy Texture	198	Above slShower
12903	129	Plaster - White with Rough Bumpy Texture	198	NE Corner

Northern Analytical Services
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Printed: November 5, 2023

Sample Location Report

Sample Number	*Material Number*	*Homogeneous Material Description*	*Room Number*	*Sample Location*
13001	130	Brick & Mortar - Addition 1	Exterior - Addition 1	South of 194
13002	130	Brick & Mortar - Addition 1	Exterior - Addition 1	East of 194
13101	131	Texture - On Soffits, Addition 1	Exterior - Addition 1	NW Corner of Weight Room Addition
13102	131	Texture - On Soffits, Addition 1	Exterior - Addition 1	SE of 195
13103	131	Texture - On Soffits, Addition 1	Exterior - Addition 1	SE of Weight Room Addition at Ext. Door 19

Laboratory Reports

SanAir Technologies Laboratory

The Identification Specialists

Analysis Report
prepared for
Northern Analytical Services, LLC

Report Date: 8/16/2023

Project Name: Osceola High School

Project #: 230148

SanAir ID#: 23043582

NVLAP TESTING

NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com

SanAir ID Number
23043582
FINAL REPORT
8/16/2023 6:52:28 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

Project Number: 230148
P.O. Number:
Project Name: Osceola High School
Collected Date: 8/8/2023
Received Date: 8/10/2023 9:45:00 AM

Dear Josh Christie,

We at SanAir would like to thank you for the work you recently submitted. The 148 sample(s) were received on Thursday, August 10, 2023 via UPS. The final report(s) is enclosed for the following sample(s): 101, 102, 103, 104, 105, 201, 202, 301, 401, 402, 403, 404, 405, 406, 601, 602, 701, 702, 703, 1101, 1102, 2101, 2102, 2201, 2202, 2401, 2801, 2802, 2901, 3001, 3002, 3003, 3101, 3501, 3502, 3701, 3801, 3802, 3803, 3901, 3902, 4001, 4101, 4102, 4103, 4301, 4401, 4402, 4501, 4502, 4601, 4701, 4801, 4802, 4901, 5101, 5102, 5201, 5203, 5401, 5402, 5501, 5502, 5601, 5701, 5702, 5403, 5901, 5902, 5903, 59045, 5905, 6001, 6101, 6102, 6201, 6202, 6203, 6301, 6302, 6401, 6402, 6701, 6702, 6801, 6901, 7001, 7002, 7003, 7004, 7005, 7006, 7007, 7701, 7801, 7802, 7901, 7902, 8001, 8002, 8501, 8601, 8602, 8801, 8802, 9001, 9101, 9102, 9201, 9202, 9301, 9302, 9401, 9402, 9801, 9802, 9803, 9901, 9902, 9903, 10001, 10002, 10003, 10301, 10302, 10701, 10702, 10801, 10802, 11401, 11601, 11602, 11901, 11902, 12101, 12102, 12201, 12202, 12401, 12501, 12502, 12601, 12701, 12702, 12901, 12902, 4201, 4202.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:
- 148 samples in Good condition.

SanAir Technologies Laboratory

10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos Chain of Custody
Form 140, Rev 7, 10/20/2022

SanAir ID Number: 23043582

Company: Northern Analytical Services, LLC	Project #: 230148	Collected by: Joshua Christie
Address: 14870 225th Ave.	Project Name: Osceola High School	Phone #: (231) 679-0005
City, St., Zip: Big Rapids, MI, 49307	Date Collected: 8/8/2023	Fax #: 866-214-4739
State of Collection: MI Account#: 2409	P.O. Number:	Email: jchristie@northernas.com/john@northernas.com

Bulk

ABB	PLM EPA 600/R-93/116	X
	Positive Stop	X
ABEPA	PLM EPA 400 Point Count	
ABB1K	PLM EPA 1000 Point Count	
ABBEN	PLM EPA NOB**	
ABBCH	TEM Chatfield**	
ABBTM	TEM EPA NOB**	
ABQ	PLM Qualitative	

** Available on 24-hr. to 5-day TAT

Water

ABHE	EPA 100.2	

Air

ABA	PCM NIOSH 7400	
ABA-2	OSHA w/ TWA*	
ABTEM	TEM AHERA	
ABATN	TEM NIOSH 7402	
ABT2	TEM Level II	
Other:		

New York ELAP

ABEPA2	NY ELAP 198.1	
ABENY	NY ELAP 198.6 PLM NOB	
ABBNY	NY ELAP 198.4 TEM NOB	
	Positive Stop	

Soil

ABSE	PLM EPA 600/R-93/116 (Qual.)	

Vermiculite

ABB	PLM EPA 600/R-93/116	
ABEPA3	PLM EPA 400 Point Count	
ABCM	Cincinnati Method	

Dust

ABWA	TEM Wipe ASTM D-6480	
ABDMV	TEM Microvac ASTM D-5755	

Matrix / Other

Turn Around Times				
	3 HR (4 HR TEM) ☐	6 HR (8HR TEM) ☐	12 HR ☐	1 Day ☐
	☐ 2 Days	☒ 3 Days	☐ 4 Days	☐ 5 Days

Special Instructions: Point Count if >10%

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
101	Mudded Pipe Fitting	—	8/8/23	—	—	—
102	Mudded Pipe Fitting	—		—	—	—
103	Mudded Pipe Fitting	—		—	—	—
104	Mudded Pipe Fitting	—		—	—	—
105	Mudded Pipe Fitting	—		—	—	—
201	Duct Wrk Jacket+Insulation	—		—	—	—
202	Duct Wrk Jacket+Insulation	—		—	—	—
301	Mudded Roof Drain	—		—	—	—
401	Glued-On Ceiling Tile	—		—	—	—
402	Glued-On Ceiling Tile	—		—	—	—
403	Glued-On Ceiling Tile	—		—	—	—
404	Glued-On Ceiling Tile	—		—	—	—

Relinquished by	Date	Time	Received by	Date	Time
Joshua Christie	8/9/2023	1200	RMB	AUG 10 2023	9:45am
JAO	8/11/23	5:00pm	JAO	8/11/23	10:40am

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

23043582
Form 140, Revision 1, 1/20/2017

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
405	Glued-On Ceiling Tile	—	8/8/23	—	—	—
406	Glued-On Ceiling Tile	—		—	—	—
601	Floor Tile & Mastic	—		—	—	—
602	Floor Tile & Mastic	—		—	—	—
701	Vibration Dampener Cloth	—		—	—	—
702	Vibration Dampener Cloth	—		—	—	—
703	Vibration Dampener Cloth	—		—	—	—
1101	Exterior Aluminum Window Frame Caulk	—		—	—	—
1102	Ext. Aluminum Window Frame Caulk	—		—	—	—
2101	Cove Base	—		—	—	—
2102	Cove Base	—		—	—	—
2201	Cove Base	—		—	—	—
2202	Cove Base	—		—	—	—
2401	Drywall & Joint Compound	—		—	—	—
2801	Int. Steel Door Frame Glazing	—		—	—	—
2802	Int. Steel Door Frame Glazing	—		—	—	—
2901	Floor Tile & Mastic	—		—	—	—
3001	Int. Steel Door Frame Caulk	—		—	—	—
3002	Int. Steel Door Frame Caulk	—		—	—	—
3003	Int. Steel Door Frame Caulk	—		—	—	—
3101	Floor Tile & Mastic	—		—	—	—
3501	Cove Base	—		—	—	—
3502	Cove Base	—		—	—	—
3701	~~Cove~~ Bathroom Stall Caulk	—		—	—	—
3801	Expansion Joint Caulk	—		—	—	—
3802	Expansion Joint Caulk	—		—	—	—
3803	Expansion Joint Caulk	—		—	—	—
3901	Ceiling Tile	—		—	—	—
3902	Ceiling Tile	—		—	—	—
4001	Int. Steel Door Frame Caulk	—		—	—	—
4101	Tank Insulation	—		—	—	—

Special Instructions	Point Count If Less Than 1%

Relinquished by	Date	Time	Received by	Date	Time
Joshua Christie			RMB	AUG 10 2023	9:45am
[illegible]	8/11/23	5:00pm	[illegible]	8/11/23	10:40am

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges. Page _of ____ 2 16

23043582

Form 140, Revision 1, 1/20/2017

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
4102	Tank Insulation	—	8/8/23	—	—	—
4103	Tank Insulation	—		—	—	—
4301	Duct Work Caulk	—		—	—	—
4401	Water Valve Gaskets	—		—	—	—
4402	Water Valve Gaskets	—		—	—	—
4501	Tar on Walls	—		—	—	—
4502	Tar on Walls	—		—	—	—
4503	Tar on Walls	—		—	—	—
4601	Floor Tile & Mastic	—		—	—	—
4701	Sink Undercoating	—		—	—	—
4801	Floor Tile & Mastic	—		—	—	—
4802	Floor Tile & Mastic	—		—	—	—
4901	Terazzo	—		—	—	—
5101	Ext. Aluminum Windows Frame Caulk	—		—	—	—
5102	Ext. Aluminum Windows Frame Caulk	—		—	—	—
5201	Ceramic Tile & Grout	—		—	—	—
5203	Ceramic Tile & Grout	—		—	—	—
5401	Light Backing	—		—	—	—
5402	Light Backing	—		—	—	—
6501	Int. Steel Door Frame Caulk	—		—	—	—
6502	Int. Steel Door Frame Caulk	—		—	—	—
5601	Int. Steel Door Frame Glazing	—		—	—	—
5701	Sink Undercoating	—		—	—	—
5702	Sink Undercoating	—		—	—	—
5403	Light Backing	—		—	—	—
5901	Plaster	—		—	—	—
5902	Plaster	—		—	—	—
5903	Plaster	—		—	—	—
5904	Plaster	—		—	—	—
5905	Plaster	—		—	—	—
6001	Floor Tile & Mastic	—		—	—	—

Special Instructions	Point Count If Less Than 1%

Relinquished by	Date	Time	Received by	Date	Time
Joshua Christie			RMB	AUG 10 2023	9:45am
DAD	8/11/23	5:00pm			

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges. Page _of ___ 3/6

Form 140, Revision 1, 1/20/2017

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
6101	Ceiling Tile	—	8/8/23	—	—	—
6102	Ceiling Tile	—		—	—	—
6201	Sink Undercoating	—		—	—	—
6202	Sink Undercoating	—		—	—	—
6203	Sink Undercoating	—		—	—	—
6301	Int. Steel window Frame Caulk	—		—	—	—
6302	Int. Steel Window Frame Caulk	—		—	—	—
6401	Int. Steel Window Frame Glazing	—		—	—	—
6402	Int. Steel Window Frame Glazing	—		—	—	—
6701	Tar on Clock/Speaker/Light Backing	—		—	—	—
6702	Tar on Clock/Speaker/Light Backing	—		—	—	—
6801	Floor Tile & Mastic	—		—	—	—
6901	Floor Tile & Mastic	—		—	—	—
7001	Acoustical Ceiling	—		—	—	—
7002	Acoustical Ceiling	—		—	—	—
7003	Acoustical Ceiling	—		—	—	—
7004	Acoustical Ceiling	—		—	—	—
7005	Acoustical Ceiling	—		—	—	—
7006	Acoustical Ceiling	—		—	—	—
7007	Acoustical Ceiling	—		—	—	—
7701	Glazing on Non-Rated Door	—		—	—	—
7801	Cement Board	—		—	—	—
7802	Cement Board	—		—	—	—
7901	Black Tar on Fiberglass Mats	—		—	—	—
7902	Black Tar on Fiberglass mats	—		—	—	—
8001	Carpet Glue	—		—	—	—
8002	Carpet Glue	—		—	—	—
8501	Ext. Aluminum Door Frame Caulk	—		—	—	—
8601	Ext. Aluminum Door Frame Glazing	—		—	—	—
8602	Ext. Aluminum Door Frame Glazing	—		—	—	—
8801	Floor Tile & Mastic	—		—	—	—

Special Instructions	Point Count If Less Than 1%

Relinquished by	Date	Time	Received by	Date	Time
Joshua Christie			RMB	AUG 10 2023	9:45am
ZAO	8/11/23	5:00pm	ZAO	8/11/23	10:40am

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23043582

Form 140, Revision 1, 1/20/2017

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
8802	Floor Tile & Mastic	—	8/8/23	—	—	—
9001	Vinyl Sheet Flooring	—		—	—	—
9101	Trophy Case Glazing	—		—	—	—
9102	Trophy Case Glazing	—		—	—	—
9201	Int. Aluminum Door Frame Caulk	—		—	—	—
9202	Int. Aluminum Door Frame Caulk	—		—	—	—
9301	Vibration Dampener Cloth	—		—	—	—
9302	Vibration Dampener Cloth	—		—	—	—
9401	Ductwork Caulk	—		—	—	—
9402	Ductwork Caulk	—		—	—	—
9801	Jacketing	—		—	—	—
9802	Jacketing	—		—	—	—
9803	Jacketing	—		—	—	—
9901	Jacketing	—		—	—	—
9902	Jacketing	—		—	—	—
9903	Jacketing	—		—	—	—
10001	Fiberglass Insulation	—		—	—	—
10002	Fiberglass Insulation	—		—	—	—
10003	Fiberglass Insulation	—		—	—	—
10301	Ext. Aluminum Window Frame Glazing	—		—	—	—
10302	Exterior Window Frame Glazing	—		—	—	—
10701	Floor Tile & Mastic	—		—	—	—
10702	Floor Tile & Mastic	—		—	—	—
10801	Cove Base	—		—	—	—
10802	Cove Base	—		—	—	—
11401	Int. Steel Door Frame Caulk	—		—	—	—
11601	[redacted] Door Frame Caulk	—		—	—	—
11602	[redacted] Ext. Door Frame Caulk	—		—	—	—
11901	Wood Window Frame Caulk	—		—	—	—
11902	Wood Window Frame Caulk	—		—	—	—
12101	Ceiling Tile	—		—	—	—

Special Instructions	Point Count If Less Than 1%

Relinquished by	Date	Time	Received by	Date	Time
Joshua Christie			RMB	AUG 10 2023	9:45am
JAO	8/11/23	5:00pm	JAO	8/11/23	10:00am

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23043582

Form 140, Revision 1, 1/20/2017

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
12102	Ceiling Tile	—	8/8/23	—	—	—
12201	Sink Undercoating	—		—	—	—
12202	Sink Undercoating	—		—	—	—
12401	Cove Base	—		—	—	—
12501	Expansion Joint Caulk	—		—	—	—
12502	Expansion Joint Caulk	—		—	—	—
12601	Interior Window Frame Caulk	—		—	—	—
12701	Ductwork Caulk	—		—	—	—
12702	Ductwork Caulk	—		—	—	—
12901	Plaster	—		—	—	—
12902	Plaster	—		—	—	—
4201	Glue Behind Fiberglass	—		—	—	—
4202	Glue Behind Fiberglass	—		—	—	—

Special Instructions	Point Count If Less Than 1%

Relinquished by	Date	Time	Received by	Date	Time
Joshua Christie				AUG 10 2023	9:45am
	8/11/23	5:00pm		8/11/23	10:40am

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges. Page _of ___

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TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlothian, VA 23112
804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.
10501 Trade Court
North Chesterfield, VA 23236

TESC LOGIN #: 230814J

DATE OF RECEIPT: 8/14/2023
DATE OF ANALYSIS: 8/15/2023
DATE OF REPORT: 8/16/2023

CLIENT JOB/ #: **23043582**

JOB SITE:

ANALYST: B. Trimmer

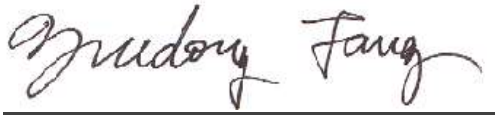
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
1	101 / White, gray fibers, gray powder	**15% Chrysotile**	10% Cellulose 10% Fiberglass	65%
2	102 / Gray fibers, powder	**40% Chrysotile**	10% Cellulose 10% Fiberglass	40%
3	103 / Geay fibers, powder	**40% Chrysotile** **5% Amosite**	10% Cellulose 10% Fiberglass	35%
4	104 / Gray fibers, powder	**20% Chrysotile**	10% Fiberglass	70%
5	105 / White, gray fibers, gray powder	**40% Chrysotile**	15% Cellulose 20% Fiberglass	25%
6	201 / Gray fibers	**60% Chrysotile**	15% Cellulose 20% Fiberglass	5%
7	202 / Gray fiberws, powder	**20% Chrysotile**	20% Fiberglass	60%
8	301 / White, gray fibers, gray powder	**20% Chrysotile** **5% Amosite**	20% Cellulose 10% Fiberglass	45%
9A	302 - Ceiling Tile / Gray fibers	**NAD**	60% Cellulose 35% Fiberglass	5%

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

NVLAP Lab Code: 200794-0

[**LEGEND** NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:



Feng Jiang, MS Senior Geologist, Laboratory Director
Yuedong Fang, Senior Geologist

TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

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804-739-1751 • fax: 804-739-1753

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10501 Trade Court
North Chesterfield, VA 23236

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DATE OF ANALYSIS: 8/15/2023
DATE OF REPORT: 8/16/2023

CLIENT JOB/ #: **23043582**

JOB SITE:

ANALYST: B. Trimmer

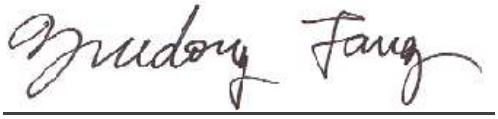
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
9B	302 - Mastic / Brown adhesive	**NAD**		100%
10A	401 - Ceiling Tile / Gray fibers	**NAD**	60% Cellulose 35% Fiberglass	5%
10B	401 - Mastic / Brown adhesive	**NAD**		100%
11A	402 - Ceiling Tile / Gray fibers	**NAD**	60% Cellulose 35% Fiberglass	5%
11B	402 - Mastic / Brown adhesive	**NAD**		100%
12A	403 - Ceiling Tile / Gray fibers	**NAD**	60% Cellulose 35% Fiberglass	5%
12B	403 - Mastic / Brown adhesive	**NAD**		100%
13A	404 - Ceiling Tile / Gray fibers	**NAD**	60% Cellulose 35% Fiberglass	5%
13B	404 - Mastic / Brown adhesive	**NAD**		100%
14A	405 - Ceiling Tile / Gray fibers	**NAD**	60% Cellulose 35% Fiberglass	5%

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

NVLAP Lab Code: 200794-0

[**LEGEND** NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:



Feng Jiang, MS Senior Geologist, Laboratory Director
Yuedong Fang, Senior Geologist

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10501 Trade Court
North Chesterfield, VA 23236

TESC LOGIN #: 230814J

DATE OF RECEIPT: 8/14/2023
DATE OF ANALYSIS: 8/15/2023
DATE OF REPORT: 8/16/2023

CLIENT JOB/ #: **23043582**

JOB SITE:

ANALYST: B. Trimmer

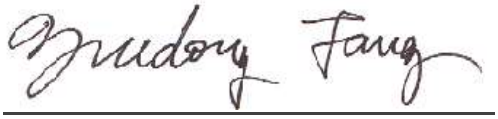
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
14B	405 - Mastic / Brown adhesive	**NAD**		100%
15A	601 - Tile / Gray vinyl	**3% Chrysotile**	60% Cellulose 35% Fiberglass	2%
15B	601 - Mastic / Black adhesive	**4% Chrysotile**		96%
16A	602 - Tile / Gray vinyl	**3% Chrysotile**		97%
16B	602 - Mastic / Black adhesive	**4% Chrysotile**		96%
17	701 / Gray fibers	**40% Chrysotile**	55% Cellulose	5%
18	702 / Gray fibers	**40% Chrysotile**	55% Cellulose	5%
19	703 / Gray fibers	**40% Chrysotile**	55% Cellulose	5%
20	1101 / Gray adhesive	**NAD**		100%
21	1102 / Gray adhesive	**NAD**		100%

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

NVLAP Lab Code: 200794-0

[**LEGEND** NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:



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Yuedong Fang, Senior Geologist

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BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

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10501 Trade Court
North Chesterfield, VA 23236

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DATE OF REPORT: 8/16/2023

CLIENT JOB/ #: **23043582**

JOB SITE:

ANALYST: B. Trimmer

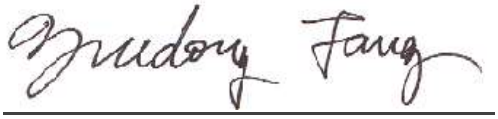
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
22A	2101 - Tile / Gray vinyl	**NAD**		100%
22B	2101 - Mastic / Brown adhesive	**NAD**		100%
23A	2102 - Tile / Gray vinyl	**NAD**		100%
23B	2102 - Mastic / Brown adhesive	**NAD**		100%
24	2401 / White powder, fibers	**NAD**	30% Cellulose	70%
25	2801 / Gray powder	**2% Chrysotile**		98%
26	2802 / Gray powder	**2% Chrysotile**		98%
27A	2901 - Tile / Brown viny	**4% Chrysotile**		96%
27B	2901 - Mastic / Black adhesive	**7% Chrysotile**		93%
28	3001 / Gray powder	**2% Chrysotile**		98%

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

NVLAP Lab Code: 200794-0

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Reviewed By Authorized Signatory:



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Yuedong Fang, Senior Geologist

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ANALYST: B. Trimmer

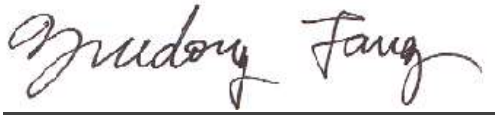
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
29	3002 / Gray powder	**2% Chrysotile**		98%
30	3003 / Tan powder	**2% Chrysotile**		98%
31A	3101 - Tile / Red vinyl	**4% Chrysotile**		96%
31B	3101 - Mastic / Black adhesive	**5% Chrysotile**		95%
32A	3501 - Covebase / Blue rubber	**NAD**		100%
32B	3501 - Mastic / Beige adhesive	**NAD**	5% Cellulose	95%
33A	3502 - Covebase / Black rubber	**NAD**		100%
33B	3502 - Mastic / Beige adhesive	**NAD**		100%
34	3701 / White adhesive	**NAD**		100%
35	3801 / Gray powder	**2% Chrysotile**		98%

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

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Feng Jiang, MS Senior Geologist, Laboratory Director
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804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.
10501 Trade Court
North Chesterfield, VA 23236

TESC LOGIN #: 230814J

DATE OF RECEIPT: 8/14/2023
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JOB SITE:

ANALYST: B. Trimmer

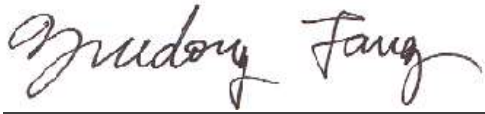
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
36	3802 / Gray powder	**2% Chrysotile**		98%
37	3803 / Gray powder	**2% Chrysotile**		98%
38	3901 / Gray fibers	**NAD**	70% Cellulose 25% Fiberglass	5%
39	3902 / Gray fibers	**NAD**	70% Cellulose 25% Fiberglass	5%
40	4001 / Gray powder	**2% Chrysotile**		98%
41	4101 / White, gray fibers, gray powder	**20% Chrysotile** **25% Amosite**	15% Cellulose	40%
42	4102 / White, gray fibers	**80% Chrysotile**	15% Cellulose	5%
43	4103 / White, gray fibers, gray powder	**20% Chrysotile** **25% Amosite**	15% Cellulose	40%
44	4301 / Brown adhesive	**2% Chrysotile**		98%
45A	4401 - Tile / Brown vinyl	**NAD**		100%

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

NVLAP Lab Code: 200794-0

[**LEGEND** NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:



Feng Jiang, MS Senior Geologist, Laboratory Director
Yuedong Fang, Senior Geologist

TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlothian, VA 23112
804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.
10501 Trade Court
North Chesterfield, VA 23236

TESC LOGIN #: 230814J

DATE OF RECEIPT: 8/14/2023
DATE OF ANALYSIS: 8/15/2023
DATE OF REPORT: 8/16/2023

CLIENT JOB/ #: **23043582**

JOB SITE:

ANALYST: B. Trimmer

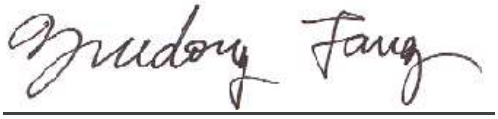
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
45B	4401 - Mastic / Black adhesive	**NAD**		100%
46A	4402 - Tile / Brown vinyl	**NAD**		100%
46B	4402 - Mastic / Black adhesive	**NAD**		100%
47	4501 / Black adhesive	**5% Chrysotile**		95%
48	4502 / Black adhesive	**5% Chrysotile**		95%
49	4503 / Black adhesive	**5% Chrysotile**		95%
50A	4601 - Tile / Green Tile	**3% Chrysotile**		97%
50B	4601 - Mastic / Black adhesive	**5% Chrysotile**		95%
51	4701 / Pink adhesive	**NAD**		100%
52A	4801 - Tile / Gray, blue vinyl	**NAD**		100%
52B	4801 - Mastic / Black adhesive	**NAD**		100%

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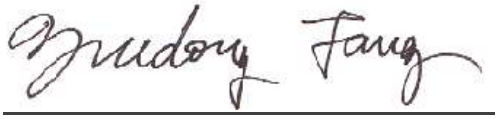
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
53A	4802 - Tile / Gray, blue vinyl	**NAD**		100%
53B	4802 - Mastic / Black adhesive	**NAD**		100%
54	4901 / Gray granular	**NAD**		100%
55	5101 / Gray powder	**3% Chrysotile**		97%
56	5102 / Gray powder	**3% Chrysotile**		97%
57A	5201 - Tile / Blue ceramic	**NAD**		100%
57B	5201 - Grout / Gray granular	**NAD**		100%
58A	5202 - Tile / Blue ceramic	**NAD**		100%
58B	5202 - Grout / Gray granular	**NAD**		100%
59	5401 / Gray fibers, foil	**85% Chrysotile**	5% Cellulose	10%

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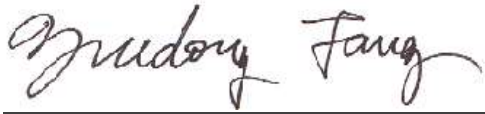
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
60	5402 / Gray fibers, foil	**85% Chrysotile**	5% Cellulose	10%
61	5403 / Gray fibers, foil	**85% Chrysotile**		15%
62	5501 / Gray powder	**2% Chrysotile**		98%
63	5502 / White adhesive	**NAD**		100%
64	5601 / Gray powder	**2% Chrysotile**		98%
65	5701 / Black adhesive	**7% Chrysotile**		93%
66	5702 / Black adhesive	**7% Chrysotile**		93%
67A	5901 - Plaster / Gray granular	**NAD**		100%
67B	5901 - Skimcoat / White granular	**NAD**		100%
68A	5902 - Plaster / Gray granular	**NAD**		100%

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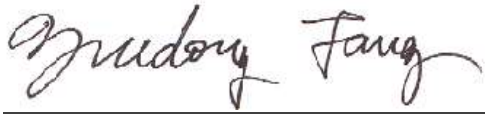
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
68B	5902 - Skimcoat / White granular	**NAD**		100%
69A	5903 - Plaster / Gray granular	**NAD**		100%
69B	5903 - Skimcoat / White granular	**NAD**		100%
70A	5904 - Plaster / Gray granular	**NAD**		100%
70B	5904 - Skimcoat / White granular	**NAD**		100%
71A	5905 - Plaster / Gray granular	**NAD**		100%
71B	5905 - Skimcoat / White granular	**NAD**		100%
72A	6001 - Tile / Gray vinyl	**NAD**		100%
72B	6001 - Mastic / Black adhesive	**NAD**	5% Cellulose	95%
73	6101 / Gray fibers	**NAD**	75% Cellulose 20% Fiberglass	5%

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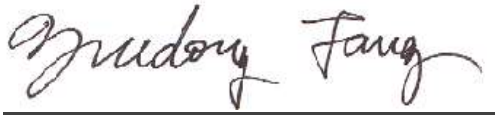
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
74	6102 / Gray fibers	**NAD**	75% Cellulose 20% Fiberglass	5%
75	6201 / White adhesive	**NAD**		100%
76	6202 / White adhesive	**NAD**		100%
77	6203 / White adhesive	**NAD**		100%
78	6301 / White adhesive	**NAD**		100%
79	6302 / Gray powder	**3% Chrysotile**		97%
80	6401 / Black adhesive	**NAD**		100%
81	6402 / Gray adhesive	**5% Chrysotile**		95%
82	6701 / Black adhesive	**7% Chrysotile**		93%
83	6702 / Black adhesive	**7% Chrysotile**		93%

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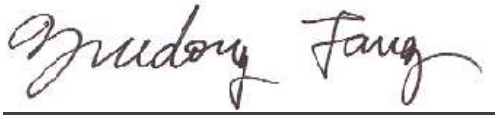
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
84A	6801 - Tile / Beige - brown vinyl	**NAD**		100%
84B	6801 - Mastic / Black, white ahdesive	**NAD**		100%
85A	6901 - Tile / Gray vinyl	**NAD**		100%
85B	6901 - Mastic / Yellow, black adhesive	**NAD**	5% Cellulose	95%
86	7001 / Gray, white granular	**NAD**		100%
87	7002 / Gray, white granular	**NAD**		100%
88	7003 / Gray, white granular	**NAD**		100%
89	7004 / Gray, white granular	**NAD**		100%
90	7005 / Gray, white granular	**NAD**		100%
91	7006 / Gray, white granular	**NAD**		100%

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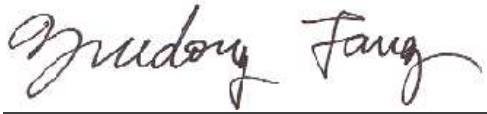
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92	7007 / Gray, white granular	**NAD**		100%
93	7701 / Black adhesive	**NAD**		100%
94	7801 / Gray granular, white fibers	**15% Chrysotile**		85%
95	7802 / Gray granular, white fibers	**15% Chrysotile**		85%
96	7901 / Yellow fibers, black adhesive	**NAD**	90% Fiberglass	10%
97	7902 / Yelow fibers, black adhesive	**NAD**	90% Fiberglass	10%
98	8001 / Yellow adhesive	**NAD**		100%
99	8002 / Yellow adhesive	**NAD**		100%
100	8501 / Gray powder	**2% Chrysotile**		98%
101	8601 / Gray adhesive	**2% Chrysotile**		98%

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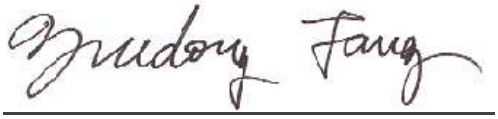
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102	8602 / Gray adhesive	**2% Chrysotile**		98%
103	8801 / Blue vinyl	**NAD**		100%
104	8802 / White, blue vinyl	**NAD**		100%
105	9001 / Blue rubber	**NAD**		100%
106	9101 / Gray adhesive	**2% Chrysotile**		98%
107	9202 / Gray adhesive	**2% Chrysotile**		98%
108	9201 / Tan rubbers	**2% Chrysotile**	20% Synthetic	78%
109	9202 / Gray powder	**3% Chrysotile**	20% Synthetic	77%
110	9301 / Black rubber, white fibers	**NAD**	20% Synthetic	80%
111	9302 / Black rubber, white fibers	**NAD**	20% Synthetic	80%

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JOB SITE:

ANALYST: B. Trimmer

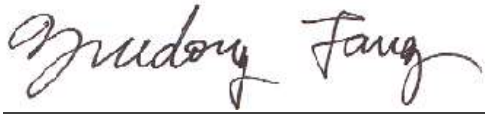
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
112	9401 / Gray adhesive	**NAD**		100%
113	9402 / Gray adhesive	**NAD**		100%
114	9801 / Pink fibers	**NAD**	5% Cellulose	95%
115	9802 / Pink fibers	**NAD**	5% Cellulose 90% Fiberglass	5%
116	9803 / Pink fibers	**NAD**	5% Cellulose 90% Fiberglass	5%
117	9901 / Yellow fibers	**NAD**	3% Cellulose 95% Fiberglass	2%
118	9902 / Yellow fibers	**NAD**	3% Cellulose 95% Fiberglass	2%
119	9903 / Yellow fibers	**NAD**	3% Cellulose 95% Fiberglass	2%
120	10001 / Yellow, brown fibers, foil	**NAD**	20% Cellulose 70% Fiberglass	10%

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

NVLAP Lab Code: 200794-0

[**LEGEND** NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:



Feng Jiang, MS Senior Geologist, Laboratory Director
Yuedong Fang, Senior Geologist

TRIANGLE ENVIRONMENTAL SERVICE CENTER, INC.

13509 East Boundary Road, Suite B, Midlothian, VA 23112
804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.
10501 Trade Court
North Chesterfield, VA 23236

TESC LOGIN #: 230814J

DATE OF RECEIPT: 8/14/2023
DATE OF ANALYSIS: 8/15/2023
DATE OF REPORT: 8/16/2023

CLIENT JOB/ #: **23043582**

JOB SITE:

ANALYST: B. Trimmer

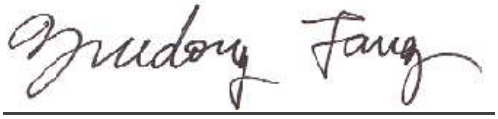
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
121	10002 / Yellow, brown fibers, foil	**NAD**	20% Cellulose 70% Fiberglass	10%
122	10003 / Yellow, brown fibers, foil	**NAD**		100%
123	10301 / Gray powder	**2% Chrysotile**		98%
124	10302 / Gray powder	**2% Chrysotile**		98%
125A	10701 - Tile / Gray vinyl	**NAD**		100%
125B	10701 - Mastic / Yellow adhesive	**NAD**		100%
126A	10702 - Tile / Gray vinyl	**NAD**		100%
126B	10702 - Mastic / Yellow adhesive	**NAD**		100%
127A	10801 - Covebase / Blue rubber	**NAD**		100%
127B	10801 - Mastic / Beige adhesive	**NAD**		100%

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

NVLAP Lab Code: 200794-0

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Reviewed By Authorized Signatory:



Feng Jiang, MS Senior Geologist, Laboratory Director
Yuedong Fang, Senior Geologist

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CLIENT: SanAir Technologies Laboratory, Inc.
10501 Trade Court
North Chesterfield, VA 23236

TESC LOGIN #: 230814J

DATE OF RECEIPT: 8/14/2023
DATE OF ANALYSIS: 8/15/2023
DATE OF REPORT: 8/16/2023

CLIENT JOB/ #: **23043582**

JOB SITE:

ANALYST: B. Trimmer

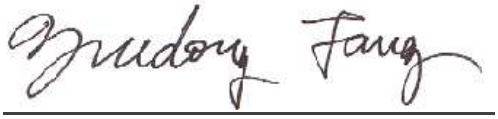
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
128A	10802 - Covebase / - Covebase	**NAD**		100%
128B	10802 / Beige adhesive	**NAD**		100%
129	11401 / White adhesive	**NAD**		100%
130	11601 / White adhesive	**NAD**		100%
131	11602 / White adhesive	**NAD**		100%
132	11901 / White adhesive	**NAD**		100%
133	11902 / White adhesive	**NAD**		100%
134	12101 / Gray fibers	**NAD**	75% Cellulose 20% Fiberglass	5%
135	12102 / Gray fibers	**NAD**	75% Cellulose 20% Fiberglass	5%
136	12201 / White adhesive	**NAD**		100%

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

NVLAP Lab Code: 200794-0

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Yuedong Fang, Senior Geologist

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CLIENT: SanAir Technologies Laboratory, Inc.
10501 Trade Court
North Chesterfield, VA 23236

TESC LOGIN #: 230814J

DATE OF RECEIPT: 8/14/2023
DATE OF ANALYSIS: 8/15/2023
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JOB SITE:

ANALYST: B. Trimmer

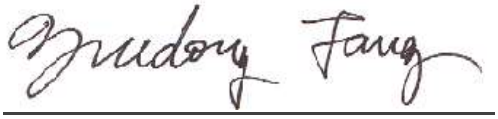
TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
137	12202 / White adhesive	**NAD**		100%
138A	12401 - Covebase / Black rubber	**NAD**		100%
138B	12401 - Mastic / Beige adhesive	**NAD**		100%
139	12501 / White adhesive	**NAD**		100%
140	12502 / White adhesive	**NAD**		100%
141	12601 / White adhesive	**NAD**		100%
142	12701 / Gray adhesive	**NAD**		100%
143	12702 / Gray adhesive	**NAD**		100%
144	12901 / Gray, white granular	**NAD**		100%
145	12902 / Gray, white granular	**NAD**		100%
146	4201 / Black adhesive	**5% Chrysotile**		95%

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

NVLAP Lab Code: 200794-0

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Reviewed By Authorized Signatory:



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Yuedong Fang, Senior Geologist

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BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.
10501 Trade Court
North Chesterfield, VA 23236

TESC LOGIN #: 230814J

DATE OF RECEIPT: 8/14/2023
DATE OF ANALYSIS: 8/15/2023
DATE OF REPORT: 8/16/2023

CLIENT JOB/ #: **23043582**

JOB SITE:

ANALYST: B. Trimmer

TESC SAMPLE #	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
147	4202 / Black adhesive	**5% Chrysotile**		95%
148A	2201 - Covebase / Blue rubber	**NAD**		100%
148B	2201 - Mastic / Beige adhesive	**NAD**		100%
149A	2202 - Covebase / Blue rubber	**NAD**		100%
149B	2202 - Mastic / Beige adhesive	**NAD**		100%

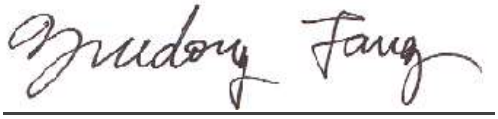
Total Samples/Layers Analyzed: 185

Samples are analyzed in accordance with "EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Sodium Chloride is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

NVLAP Lab Code: 200794-0

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Reviewed By Authorized Signatory:



Feng Jiang, MS Senior Geologist, Laboratory Director
Yuedong Fang, Senior Geologist

TESC LOGIN NUMBER: 230814J

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CHAIN OF CUSTODY FORM

LAB CUSTOMER: SanAir Technologies Laboratory, Inc.
ADDRESS: 10501 Trade Court
CITY, STATE, ZIP: N. Chesterfield VA 23236
TAT: 2 Hour:____ 6 Hour:____ 24 Hour:____ 48 Hour: X 3 Day:____ 5 Day:____
CONTACT METHOD: Phone: 804-897-1177 Fax:

DATE: 8/11/23
CONTACT NAME: Sandra Sobrino
PROJECT #: 23043582
PROJECT SITE:
Email: iaq@sanair.com; ssobrino@sanair.com

Sample number	Asbestos									Lead							Other Metals					Air Quality/Mold							Comments
	Sample Date	Bulk ID by PLM	PCM Fiber Count	PLM Point Count 400	PLM Point Count 1000	PLM Gravimetric	CARB 435 (Soil only)	TEM AHERA Air	TEM Bulk Chatfield	Air	Paint(% & PPM)	Soil(PPM)	Wipe	TCLP (Pb)	Waster Water	Drinking Water (Pb)	TCLP RCRA 8	CAM 17	Welding Fume	Toxic Metal Profile		Biocassette	Slide	Surface Tape	Surface Swab	Bulk	Air Volume (L) / Wipe Area (ft^2) / Scrape Area (cm^2)	
101	8/8/23	X																										Point Count if
102		X																										< 1%
103		X																										400pt ct or EPA NOB
104		X																										
105		X																										
201		X																										
202		X																										
301		X																										
401		X																										
402		X																										
403		X																										
404		X																										
405		X																										
406		X																										
601		X																										

Released by Jamiel Damous — Signature: Jamiel D — Date/Time: 8/11/23 5:00pm
Received by — Signature: — Date/Time: 8/14 8:30

Prepared by TESC

Pages: 1 of 10

TESC LOGIN NUMBER: 2308145

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CHAIN OF CUSTODY FORM

LAB CUSTOMER: SanAir Technologies Laboratory, Inc.
ADDRESS: 10501 Trade Court
CITY, STATE, ZIP: N. Chesterfield VA 23236
TAT: 2 Hour:____ 6 Hour:____ 24 Hour:____ 48 Hour: X 3 Day:____ 5 Day:____
CONTACT METHOD: Phone: 804-897-1177 Fax:

DATE: 8/11/23
CONTACT NAME: Sandra Sobrino
PROJECT #: 23043582
PROJECT SITE:
Email: iaq@sanair.com; ssobrino@sanair.com

Sample number	Asbestos										Lead							Other Metals					Air Quality/Mold							Comments
	Sample Date	Bulk ID by PLM	PCM Fiber Count	PLM Point Count 400	PLM Point Count 1000	PLM Gravimetric	CARB 435 (Soil only)	TEM AHERA Air	TEM Bulk Chatfield		Air	Paint(% & PPM)	Soil(PPM)	Wipe	TCLP (Pb)	Waster Water	Drinking Water (Pb)	TCLP RCRA 8	CAM 17	Welding Fume	Toxic Metal Profile		Biocassette	Slide	Surface Tape	Surface Swab	Bulk	Air Volume (L) Wipe Area (ft^2) Scrape Area (cm^2)	
602	8/8/23	X																											
701		X																											
702		X																											
703		X																											
1101		X																											
1102		X																											
2101		X																											
2102		X																											
2401		X																											
2801		X																											
2802		X																											
2901		X																											
3001		X																											
3002		X																											
3003	↓	X																											

Released by Tamica Davenport — Signature: [signature] — Date/Time: 8/11/23 5:00 pm
Received by — Signature: [signature] — Date/Time: 8/14 8:32

Prepared by TESC

TESC LOGIN NUMBER: 230814J

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CHAIN OF CUSTODY FORM

LAB CUSTOMER: SanAir Technologies Laboratory, Inc.
ADDRESS: 10501 Trade Court
CITY, STATE, ZIP: N. Chesterfield VA 23236
TAT: 2 Hour:_____ 6 Hour:_____ 24 Hour:_____ 48 Hour: X 3 Day:_____ 5 Day:_____
CONTACT METHOD: Phone: 804-897-1177 Fax:_____

DATE: 8/11/23
CONTACT NAME: Sandra Sobrino
PROJECT #: 23043582
PROJECT SITE:
Email: iaq@sanair.com; ssobrino@sanair.com

Sample number	Asbestos									Lead							Other Metals					Air Quality/Mold							Comments
	Sample Date	Bulk ID by PLM	PCM Fiber Count	PLM Point Count 400	PLM Point Count 1000	PLM Gravimetric	CARB 435 (Soil only)	TEM AHERA Air	TEM Bulk Chatfield	Air	Paint(% & PPM)	Soil(PPM)	Wipe	TCLP (Pb)	Waster Water	Drinking Water (Pb)	TCLP RCRA 8	CAM 17	Welding Fume	Toxic Metal Profile		Biocassette	Slide	Surface Tape	Surface Swab	Bulk	Air Volume (L) Wipe Area (ft^2) Scrape Area (cm^2)	
3101	8/8/23	X																										
3501		X																										
3502		X																										
3701		X																										
3801		X																										
3802		X																										
3803		X																										
3901		X																										
3902		X																										
4001		X																										
4101		X																										
4102		X																										
4103		X																										
4301		X																										
4401		X																										

Released by Jamiel Dannals — Signature: Jamiel D — Date/Time: 8/11/23 5:00pm
Received by — Signature: — Date/Time: 8/14 8:30

Prepared by TESC

Pages: 3 of 10

TESC LOGIN NUMBER: 230814J

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CHAIN OF CUSTODY FORM

LAB CUSTOMER: SanAir Technologies Laboratory, Inc.
ADDRESS: 10501 Trade Court
CITY, STATE, ZIP: N. Chesterfield VA 23236
TAT: 2 Hour:_____ 6 Hour:_____ 24 Hour:_____ 48 Hour: X 3 Day:_____ 5 Day:_____
CONTACT METHOD: Phone: 804-897-1177 Fax:

DATE: 8/11/23
CONTACT NAME: Sandra Sobrino
PROJECT #: 23043582
PROJECT SITE:
Email: iaq@sanair.com; ssobrino@sanair.com

Sample number	Asbestos										Lead							Other Metals					Air Quality/Mold						
	Sample Date	Bulk ID by PLM	PCM Fiber Count	PLM Point Count 400	PLM Point Count 1000	PLM Gravimetric	CARB 435 (Soil only)	TEM AHERA Air	TEM Bulk Chatfield		Air	Paint(% & PPM)	Soil(PPM)	Wipe	TCLP (Pb)	Waster Water	Drinking Water (Pb)	TCLP RCRA 8	CAM 17	Welding Fume	Toxic Metal Profile		Biocassette	Slide	Surface Tape	Surface Swab	Bulk	Air Volume (L) Wipe Area (ft²) Scrape Area (cm²)	Comments
4402	8/8/23	X																										
4501	↓	X																										
4502		X																										
4503		X																										
4601		X																										
4701		X																										
4801		X																										
4802		X																										
4901		X																										
5101		X																										
5102		X																										
5201		X																										
5203		X																										
5401		X																										
5402	↓	X																										↓

Released by Tamika Dannals — Signature: Tamika D — Date/Time: 8/11/23 5:00 pm
Received by — Signature: — Date/Time: 8/14 8:30

Prepared by TESC

TESC LOGIN NUMBER: 230814J

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CHAIN OF CUSTODY FORM

LAB CUSTOMER: SanAir Technologies Laboratory, Inc.
ADDRESS: 10501 Trade Court
CITY, STATE, ZIP: N. Chesterfield VA 23236
TAT: 2 Hour:_____ 6 Hour:_____ 24 Hour:_____ 48 Hour: X 3 Day:_____ 5 Day:_____
CONTACT METHOD: Phone: 804-897-1177 Fax:

DATE: 8/11/23
CONTACT NAME: Sandra Sobrino
PROJECT #: 23013582
PROJECT SITE:
Email: iaq@sanair.com; ssobrino@sanair.com

Sample number	Asbestos										Lead							Other Metals					Air Quality/Mold							Comments
	Sample Date	Bulk ID by PLM	PCM Fiber Count	PLM Point Count 400	PLM Point Count 1000	PLM Gravimetric	CARB 435 (Soil only)	TEM AHERA Air	TEM Bulk Chatfield		Air	Paint(% & PPM)	Soil(PPM)	Wipe	TCLP (Pb)	Waster Water	Drinking Water (Pb)	TCLP RCRA 8	CAM 17	Welding Fume	Toxic Metal Profile		Biocassette	Slide	Surface Tape	Surface Swab	Bulk	Air Volume (L) Wipe Area (ft^2) Scrape Area (cm^2)		
5501	8/8/23	X																											
5502		X																											
5601		X																											
5701		X																											
5702		X																											
5403		X																											
5901		X																											
5902		X																											
5903		X																											
5904		X																											
5905		X																											
6001		X																											
6101		X																											
6102		X																											
6201		X																											

Released by Jamiel Dannas — Signature: Jamiel D — Date/Time: 8/11/23 5:00pm
Received by — Signature: — Date/Time: 8/14 8:30

Prepared by TESC

TESC LOGIN NUMBER: 230814J

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CHAIN OF CUSTODY FORM

LAB CUSTOMER: SanAir Technologies Laboratory, Inc.
ADDRESS: 10501 Trade Court
CITY, STATE, ZIP: N. Chesterfield VA 23236
TAT: 2 Hour:_____ 6 Hour:_____ 24 Hour:_____ 48 Hour: X 3 Day:_____ 5 Day:_____
CONTACT METHOD: Phone: 804-897-1177 Fax:

DATE: 8/11/23
CONTACT NAME: Sandra Sobrino
PROJECT #: 23043582
PROJECT SITE:
Email: iaq@sanair.com; ssobrino@sanair.com

Sample number	Asbestos										Lead							Other Metals					Air Quality/Mold							Comments
	Sample Date	Bulk ID by PLM	PCM Fiber Count	PLM Point Count 400	PLM Point Count 1000	PLM Gravimetric	CARB 435 (Soil only)	TEM AHERA Air	TEM Bulk Chatfield		Air	Paint(% & PPM)	Soil(PPM)	Wipe	TCLP (Pb)	Waster Water	Drinking Water (Pb)	TCLP RCRA 8	CAM 17	Welding Fume	Toxic Metal Profile		Biocassette	Slide	Surface Tape	Surface Swab	Bulk	Air Volume (L) Wipe Area (ft^2) Scrape Area (cm^2)	
6202	8/8/23	X																											
6203		X																											
6301		X																											
6302		X																											
6401		X																											
6402		X																											
6701		X																											
6702		X																											
6801		X																											
6901		X																											
7001		X																											
7002		X																											
7003		X																											
7004		X																											
7005	↓	X																											

Released by James Vannoud — Signature: [signature] — Date/Time: 8/11/23 5:00pm
Received by — Signature: [signature] — Date/Time: 8/14 8:30

Prepared by TESC

TESC LOGIN NUMBER: 2308145

TRIANGLE ENVIRONMENTAL SERVICE CENTER

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CHAIN OF CUSTODY FORM

LAB CUSTOMER: SanAir Technologies Laboratory, Inc.
ADDRESS: 10501 Trade Court
CITY, STATE, ZIP: N. Chesterfield VA 23236
TAT: 2 Hour:_____ 6 Hour:_____ 24 Hour:_____ 48 Hour: X 3 Day:_____ 5 Day:_____
CONTACT METHOD: Phone: 804-897-1177 Fax:

DATE: 8/11/23
CONTACT NAME: Sandra Sobrino
PROJECT #: 23043582
PROJECT SITE:
Email: iaq@sanair.com; ssobrino@sanair.com

Sample number	Asbestos									Lead							Other Metals					Air Quality/Mold						
	Sample Date	Bulk ID by PLM	PCM Fiber Count	PLM Point Count 400	PLM Point Count 1000	PLM Gravimetric	CARB 435 (Soil only)	TEM AHERA Air	TEM Bulk Chatfield	Air	Paint(% & PPM)	Soil(PPM)	Wipe	TCLP (Pb)	Waster Water	Drinking Water (Pb)	TCLP RCRA 8	CAM 17	Welding Fume	Toxic Metal Profile		Biocassette	Slide	Surface Tape	Surface Swab	Bulk	Air Volume (L) Wipe Area (ft^2) Scrape Area (cm^2)	Comments
7006	8/8/23	X																									
7007		X																									
7701		X																									
7801		X																									
7802		X																									
7901		X																									
7902		X																									
8001		X																									
8002		X																									
8501		X																									
8601		X																									
8602		X																									
8801		X																									
8802		X																									
9001		X																									

Released by Jamie Dawson — Signature: Jamie Dawson — Date/Time: 8/11/23 5:00pm
Received by — Signature: — Date/Time: 8/14 8:30

Prepared by TESC

Pages: 7 of 10

TESC LOGIN NUMBER: 2308145

TRIANGLE ENVIRONMENTAL SERVICE CENTER

13509 East Boundary Road, Suite B • Midlothian • VA • 23112 • Tel: 804-739-1751 • Fax: 804-739-1753

CHAIN OF CUSTODY FORM

LAB CUSTOMER: SanAir Technologies Laboratory, Inc.
ADDRESS: 10501 Trade Court
CITY, STATE, ZIP: N. Chesterfield VA 23236
TAT: 2 Hour:____ 6 Hour:____ 24 Hour:____ 48 Hour: X 3 Day:____ 5 Day:____
CONTACT METHOD: Phone: 804-897-1177 Fax:

DATE: 8/11/23
CONTACT NAME: Sandra Sobrino
PROJECT #: 23043582
PROJECT SITE:
Email: iaq@sanair.com; ssobrino@sanair.com

Sample number	Asbestos										Lead							Other Metals					Air Quality/Mold							Comments
	Sample Date	Bulk ID by PLM	PCM Fiber Count	PLM Point Count 400	PLM Point Count 1000	PLM Gravimetric	CARB 435 (Soil only)	TEM AHERA Air	TEM Bulk Chatfield		Air	Paint(% & PPM)	Soil(PPM)	Wipe	TCLP (Pb)	Waster Water	Drinking Water (Pb)	TCLP RCRA 8	CAM 17	Welding Fume	Toxic Metal Profile		Biocassette	Slide	Surface Tape	Surface Swab	Bulk	Air Volume (L) Wipe Area (ft^2) Scrape Area (cm^2)	
9101	8/8/23	X																											
9102		X																											
9201		X																											
9202		X																											
9301		X																											
9302		X																											
9401		X																											
9402		X																											
9801		X																											
9802		X																											
9803		X																											
9901		X																											
9902		X																											
9903		X																											
10001	↓	X																											

Released by Jamiel Darnard — Signature: Jamiel D — Date/Time: 8/11/23 5:00pm
Received by — Signature: — Date/Time: 8/14 8:30

Pages: 8 of 10

Prepared by TESC

TESC LOGIN NUMBER: 2306145

TRIANGLE ENVIRONMENTAL SERVICE CENTER

13509 East Boundary Road, Suite B • Midlothian • VA • 23112 • Tel: 804-739-1751 • Fax: 804-739-1753

CHAIN OF CUSTODY FORM

LAB CUSTOMER: SanAir Technologies Laboratory, Inc.
ADDRESS: 10501 Trade Court
CITY, STATE, ZIP: N. Chesterfield VA 23236
TAT: 2 Hour:____ 6 Hour:____ 24 Hour:____ 48 Hour: X 3 Day:____ 5 Day:____
CONTACT METHOD: Phone: 804-897-1177 Fax:

DATE: 8/11/23
CONTACT NAME: Sandra Sobrino
PROJECT #: 23043582
PROJECT SITE:
Email: iaq@sanair.com; ssobrino@sanair.com

Sample number	Asbestos									Lead							Other Metals					Air Quality/Mold								
	Sample Date	Bulk ID by PLM	PCM Fiber Count	PLM Point Count 400	PLM Point Count 1000	PLM Gravimetric	CARB 435 (Soil only)	TEM AHERA Air	TEM Bulk Chatfield	Air	Paint(% & PPM)	Soil(PPM)	Wipe	TCLP (Pb)	Waster Water	Drinking Water (Pb)	TCLP RCRA 8	CAM 17	Welding Fume	Toxic Metal Profile		Biocassette	Slide	Surface Tape	Surface Swab	Bulk	Air Volume (L) Wipe Area (ft^2) Scrape Area (cm^2)	Comments
10002	8/8/23	X																									
10003		X																									
10301		X																									
10302		X																									
10701		X																									
10702		X																									
10801		X																									
10802		X																									
11401		X																									
11601		X																									
11602		X																									
11901		X																									
11902		X																									
12101		X																									
12102		X																									

Released by Jamiel Dannard — Signature: Jamiel D — Date/Time: 8/11/23 5:00pm
Received by — Signature: — Date/Time: 8/14 8:30

Pages: 9 of 10

Prepared by TESC

TESC LOGIN NUMBER: 2308145

TRIANGLE ENVIRONMENTAL SERVICE CENTER

13509 East Boundary Road, Suite B • Midlothian • VA • 23112 • Tel: 804-739-1751 • Fax: 804-739-1753

CHAIN OF CUSTODY FORM

LAB CUSTOMER: SanAir Technologies Laboratory, Inc.
ADDRESS: 10501 Trade Court
CITY, STATE, ZIP: N. Chesterfield VA 23236
TAT: 2 Hour:____ 6 Hour:____ 24 Hour:____ 48 Hour: X 3 Day:____ 5 Day:____
CONTACT METHOD: Phone: 804-897-1177 Fax:

DATE: 8/11/23
CONTACT NAME: Sandra Sobrino
PROJECT #: 23043582
PROJECT SITE:
Email: iaq@sanair.com; ssobrino@sanair.com

Sample number	Asbestos									Lead							Other Metals					Air Quality/Mold							
	Sample Date	Bulk ID by PLM	PCM Fiber Count	PLM Point Count 400	PLM Point Count 1000	PLM Gravimetric	CARB 435 (Soil only)	TEM AHERA Air	TEM Bulk Chatfield	Air	Paint(% & PPM)	Soil(PPM)	Wipe	TCLP (Pb)	Waster Water	Drinking Water (Pb)	TCLP RCRA 8	CAM 17	Welding Fume	Toxic Metal Profile		Biocassette	Slide	Surface Tape	Surface Swab	Bulk	Air Volume (L) Wipe Area (ft^2) Scrape Area (cm^2)	Comments
12201	8/8/23	X																									
12202		X																									
12401		X																									
12501		X																									
12502		X																									
12601		X																									
12701		X																									
12702		X																									
12901		X																									
12902		X																									
4201		X																									
4202	↓	X																									

Released by Tamika Dannals — Signature: Tamika Dannals — Date/Time: 8/11/23 5:00pm
Received by — Signature: [signature] — Date/Time: 8/14 8:30

Prepared by TESC

received extra sample 2201 & 2202 (TJ)

Pages: 10 of 10

SanAir Technologies Laboratory

The Identification Specialists

Analysis Report
prepared for
Northern Analytical Services, LLC

Report Date: 10/20/2023

Project Name: Oscoda HS Survey

Project #: 230148

SanAir ID#: 23058257

NVLAP TESTING

NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com

SanAir ID Number
23058257
FINAL REPORT
10/20/2023 5:13:55 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

Project Number: 230148
P.O. Number:
Project Name: Oscoda HS Survey
Collected Date: 10/17/2023
Received Date: 10/19/2023 10:35:00 AM

Dear Parker Denike,

We at SanAir would like to thank you for the work you recently submitted. The 36 sample(s) were received on Thursday, October 19, 2023 via UPS. The final report(s) is enclosed for the following sample(s): 406, 407, 408, 409, 410, 411, 2402, 3702, 3903, 4702, 4902, 5801, 5802, 6002, 6601, 6602, 6603, 7702, 7903, 8201, 8202, 8301, 8302, 11402, 11801, 11802, 12402, 12602, 12903, 10401, 10402, 13001, 13002, 13101, 13102, 13103.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:
- 31 samples in Good condition.
- 5 samples in Layer Missing condition. (#1, #2, #3, #5, #6)

SanAir Technologies Laboratory

SanAir ID Number
23058257
FINAL REPORT
10/20/2023 5:13:55 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

Project Number: 230148
P.O. Number:
Project Name: Oscoda HS Survey
Collected Date: 10/17/2023
Received Date: 10/19/2023 10:35:00 AM

Analyst: Williams, Darien

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
406 / 23058257-001 Glued On Ceiling Tile, Ceiling Tile	Black Fibrous Homogeneous	60% Min. Wool 20% Cellulose	18% Other	2% Amosite
406 / 23058257-001 Glued On Ceiling Tile, Glue				Not Submitted
407 / 23058257-002 Glued On Ceiling Tile, Ceiling Tile				Not Analyzed
407 / 23058257-002 Glued On Ceiling Tile, Glue				Not Submitted
408 / 23058257-003 Glued On Ceiling Tile, Ceiling Tile				Not Analyzed
408 / 23058257-003 Glued On Ceiling Tile, Glue				Not Submitted
409 / 23058257-004 Glued On Ceiling Tile, Ceiling Tile				Not Analyzed
409 / 23058257-004 Glued On Ceiling Tile, Glue	Brown Non-Fibrous Homogeneous		100% Other	None Detected
410 / 23058257-005 Glued On Ceiling Tile, Ceiling Tile				Not Analyzed
410 / 23058257-005 Glued On Ceiling Tile, Glue				Not Submitted

Analyst: Darien Williams
Analysis Date: 10/20/2023

Approved Signatory: Sandra Sobieraj
Date: 10/20/2023

SanAir Technologies Laboratory

SanAir ID Number
23058257
FINAL REPORT
10/20/2023 5:13:55 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

Project Number: 230148
P.O. Number:
Project Name: Oscoda HS Survey
Collected Date: 10/17/2023
Received Date: 10/19/2023 10:35:00 AM

Analyst: Williams, Darien

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
411 / 23058257-006 Glued On Ceiling Tile, Ceiling Tile				Not Analyzed
411 / 23058257-006 Glued On Ceiling Tile, Glue				Not Submitted
2402 / 23058257-007 Drywall & Joint Compound, Drywall	White Non-Fibrous Homogeneous		100% Other	None Detected
2402 / 23058257-007 Drywall & Joint Compound, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
3702 / 23058257-008 Caulk	Various Non-Fibrous Heterogeneous		100% Other	None Detected
3903 / 23058257-009 Ceiling Tile	White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Other	None Detected
4702 / 23058257-010 Sink Under Coating	Pink Non-Fibrous Homogeneous		100% Other	None Detected
4902 / 23058257-011 Terrazzo	Tan Non-Fibrous Homogeneous		100% Other	None Detected
5801 / 23058257-012 Vinyl Flooring, Vinyl	Grey Non-Fibrous Homogeneous		100% Other	None Detected
5801 / 23058257-012 Vinyl Flooring, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Darien Williams
Analysis Date: 10/20/2023

Approved Signatory: Sandra Sobieraj
Date: 10/20/2023

SanAir Technologies Laboratory

SanAir ID Number
23058257
FINAL REPORT
10/20/2023 5:13:55 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

Project Number: 230148
P.O. Number:
Project Name: Oscoda HS Survey
Collected Date: 10/17/2023
Received Date: 10/19/2023 10:35:00 AM

Analyst: Williams, Darien

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
5802 / 23058257-013 Vinyl Flooring	Grey Non-Fibrous Homogeneous		100% Other	None Detected
6002 / 23058257-014 12in Floor Tile & Mastic, Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
6002 / 23058257-014 12in Floor Tile & Mastic, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
6601 / 23058257-015 Accoustical Ceiling, Fluffy	White Fibrous Homogeneous	90% Cellulose	10% Other	None Detected
6602 / 23058257-016 Accoustical Ceiling, Fluffy	White Fibrous Homogeneous	90% Cellulose	10% Other	None Detected
6603 / 23058257-017 Accoustical Ceiling, Fluffy	White Fibrous Homogeneous	90% Cellulose	10% Other	None Detected
7702 / 23058257-018 Glazing	Black Non-Fibrous Homogeneous		100% Other	None Detected
7903 / 23058257-019 Tar On Fiberglass	Black Non-Fibrous Homogeneous		100% Other	None Detected
8201 / 23058257-020 Curtain	Black Fibrous Homogeneous	90% Synthetic	10% Other	None Detected
8202 / 23058257-021 Curtain	Black Fibrous Homogeneous	90% Synthetic	10% Other	None Detected

Analyst: Darien Williams
Analysis Date: 10/20/2023

Approved Signatory: Sandra Sobieraj
Date: 10/20/2023

SanAir Technologies Laboratory

SanAir ID Number
23058257
FINAL REPORT
10/20/2023 5:13:55 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

Project Number: 230148
P.O. Number:
Project Name: Oscoda HS Survey
Collected Date: 10/17/2023
Received Date: 10/19/2023 10:35:00 AM

Analyst: Williams, Darien

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
8301 / 23058257-022 Curtain	Blue Fibrous Homogeneous	90% Synthetic	10% Other	None Detected
8302 / 23058257-023 Curtain	Blue Fibrous Homogeneous	90% Synthetic	10% Other	None Detected
11402 / 23058257-024 Caulk	Various Non-Fibrous Homogeneous		100% Other	None Detected
11801 / 23058257-025 Vibration Dampener Cloth	Various Non-Fibrous Homogeneous	12% Glass	88% Other	None Detected
11802 / 23058257-026 Vibration Dampener Cloth	Various Non-Fibrous Homogeneous	12% Glass	88% Other	None Detected
12402 / 23058257-027 Cove Base, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
12402 / 23058257-027 Cove Base, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
12602 / 23058257-028 Caulk	Various Non-Fibrous Heterogeneous		100% Other	None Detected
12903 / 23058257-029 Plaster, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
12903 / 23058257-029 Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Darien Williams
Analysis Date: 10/20/2023

Approved Signatory: Sandra Sobieraj
Date: 10/20/2023

SanAir Technologies Laboratory

SanAir ID Number
23058257
FINAL REPORT
10/20/2023 5:13:55 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

Project Number: 230148
P.O. Number:
Project Name: Oscoda HS Survey
Collected Date: 10/17/2023
Received Date: 10/19/2023 10:35:00 AM

Analyst: Williams, Darien

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
10401 / 23058257-030 Brick & Mortar Original, Brick	Brown Non-Fibrous Heterogeneous		100% Other	None Detected
10401 / 23058257-030 Brick & Mortar Original, Mortar	White Non-Fibrous Heterogeneous		100% Other	None Detected
10402 / 23058257-031 Brick & Mortar Original, Brick	Brown Non-Fibrous Heterogeneous		100% Other	None Detected
10402 / 23058257-031 Brick & Mortar Original, Mortar	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
13001 / 23058257-032 Brick & Morter 99-05, Brick	Brown Non-Fibrous Heterogeneous		100% Other	None Detected
13001 / 23058257-032 Brick & Morter 99-05, Mortar	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
13002 / 23058257-033 Brick & Morter 99-05, Brick	Brown Non-Fibrous Heterogeneous		100% Other	None Detected
13002 / 23058257-033 Brick & Morter 99-05, Mortar	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
13101 / 23058257-034 Soffit Texture	Various Non-Fibrous Heterogeneous		100% Other	None Detected
13102 / 23058257-035 Soffit Texture	Various Non-Fibrous Heterogeneous		100% Other	None Detected

Analyst: Darien Williams
Analysis Date: 10/20/2023

Approved Signatory: Sandra Sobieraj
Date: 10/20/2023

SanAir Technologies Laboratory

SanAir ID Number
23058257
FINAL REPORT
10/20/2023 5:13:55 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

Project Number: 230148
P.O. Number:
Project Name: Oscoda HS Survey
Collected Date: 10/17/2023
Received Date: 10/19/2023 10:35:00 AM

Analyst: Williams, Darien

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
13103 / 23058257-036 Soffit Texture	Various Non-Fibrous Heterogeneous		100% Other	None Detected

Analyst: Darien Williams
Analysis Date: 10/20/2023

Approved Signatory: Sandra Sobieraj
Date: 10/20/2023

Disclaimer

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NYELAP Disclaimer:
Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Accreditations
National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075, LA-0084
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PCM00126, PLM00126, TEM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, Certificate #05088

SanAir Technologies Laboratory

1551 Oakbridge Dr. STE B
Powhatan, VA 23139
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos Chain of Custody
Form 140, Rev 1, 1/20/2017

SanAir ID Number: 23058257

Company: Northern Analytical Services, LLC		Project #: 230148	Collect by: Parker Denike
Address: 14870 225th Avenue		Project Name: Oscoda HS Survey	Phone #: 231-679-0005
City, St., Zip: Big Rapids, MI 49307		Date Collected: 10/17/23	Fax #: 866-214-4739
State of Collection:	Account#: 2409	P.O. Number:	Email: kevindelaney@northernes.com, john@northernes.com

Bulk

ABB	PLM EPA 600/R-93/116	☒
	Positive Stop ~~#~~	
ABEPA	PLM EPA 400 Point Count	☐
ABB1K	PLM EPA 1000 Point Count	☐
ABBEN	PLM EPA NOB**	☐
ABBCH	TEM Chatfield**	☐
ABBTM	TEM EPA NOB**	☐
ABQ	PLM Qualitative	☐

** Available on 24-hr. to 5-day TAT

Water

ABHE	EPA 100.2	☐

Air

ABA	PCM NIOSH 7400	☐
ABA-2	OSHA w/ TWA*	☐
ABTEM	TEM AHERA	☐
ABATN	TEM NIOSH 7402	☐
ABT2	TEM Level II	☐
Other:		☐

New York ELAP

PLM NY	PLM EPA 600/M4-82-020	☐
ABEPA2	NY ELAP 198.1	☐
ABENY	NY ELAP 198.6 PLM NOB	☐
ABBNY	NY ELAP 198.4 TEM NOB	☐

Soil

ABSE	PLM EPA 600/R-93/116 (Qual.)	☐

Vermiculite & Soil

ABSP	PLM CARB 435 (LOD <1%)	☐
ABSP1	PLM CARB 435 (LOD 0.25%)	☐
ABSP2	PLM CARB 435 (LOD 0.1%)	☐

Dust

ABWA	TEM Wipe ASTM D-6480	☐
ABDMV	TEM Microvac ASTM D-5755	☐

Matrix	Other	
		☐

Turn Around Times				
	3 HR (4 HR TEM) ☐	6 HR (8HR TEM) ☐	12 HR ☐	24 HR ☒
	☐ 2 Days	☐ 3 Days	☐ 4 Days	☐ 5 Days

Special Instructions: Point count if less than 1%

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
406, 407, 408, 409, 410, 411	glued on ceiling tile					
2402	drywall + joint compound					
3702	caulk					
3902	ceiling tile					
4702	sink undercoating - pink					
4902	terrazzo					
5801, 5802	vinyl flooring					
6002	12in floor tile + mastic					
6601, 6602, 6603	accoustical ceiling, fluffy					
7702	glazing					
7903	black tar on fiberglass					

Relinquished by	Date	Time	Received by	Date	Time
PD	10/18/23	12:03	SGK	10/19/23	1035AM

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or holiday work must be scheduled ahead of time and is charged for rush turnaround time. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

2308251

Form 140, Revision 1, 1/20/2017

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
8201, 8202	curtain, black					
8301, 8302	curtain, blue					
11402	caulk					
11801, 11802	vibration dampener cloth					
12402	cove base					
12602	caulk					
12903	plaster					
10401, 10402	brick & mortar original					
13001, 13002	brick & mortar 99-05					
13101, 13102	soffit texture					
13103						

Special Instructions	

Relinquished by	Date	Time	Received by	Date	Time
			SHL	10/19/23	1035 AM

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or holiday work must be scheduled ahead of time and is charged for rush turnaround time. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

SanAir Technologies Laboratory

The Identification Specialists

Analysis Report
prepared for
Northern Analytical Services, LLC

Report Date: 11/3/2023

Project Name:

Project #: 230148

SanAir ID#: 23060829

NVLAP TESTING

NVLAP LAB CODE 600227-0

11709 Chesterdale Road | Cincinnati, Ohio 45246
888.895.1177 | 513.438.6006 | IAQ@SanAir.com | SanAir.com

SanAir ID Number
23060829
FINAL REPORT
11/3/2023 3:10:14 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

Project Number: 230148
P.O. Number:
Project Name:
Collected Date: 11/1/2023
Received Date: 11/2/2023 9:30:00 AM

Dear Josh Christie,

We at SanAir would like to thank you for the work you recently submitted. The 10 sample(s) were received on Thursday, November 02, 2023 via UPS. The final report(s) is enclosed for the following sample(s): 1201, 5906, 5907, 6802, 6902, 8401, 8402, 9002, 10501, 10502.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Maureen Y. Haley
Asbestos Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:
- 10 samples in Good condition.

SanAir Technologies Laboratory

SanAir ID Number
23060829
FINAL REPORT
11/3/2023 3:10:14 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

Project Number: 230148
P.O. Number:
Project Name:
Collected Date: 11/1/2023
Received Date: 11/2/2023 9:30:00 AM

Analyst: Poeppelman, Dustin

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
1201 / 23060829-001 Lab Counter Top	Grey Non-Fibrous Homogeneous		100% Other	None Detected
5906 / 23060829-002 Plaster, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
5906 / 23060829-002 Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
5907 / 23060829-003 Plaster, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
5907 / 23060829-003 Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
6802 / 23060829-004 Floor Tile & Mastic, Floor Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
6802 / 23060829-004 Floor Tile & Mastic, Mastic	Various Non-Fibrous Heterogeneous		100% Other	None Detected
6902 / 23060829-005 Floor Tile & Mastic, Floor Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
6902 / 23060829-005 Floor Tile & Mastic, Mastic	Various Non-Fibrous Heterogeneous		100% Other	None Detected
8401 / 23060829-006 Ceramic Tile & Grout, Ceramic Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: 

Analysis Date: 11/3/2023

Approved Signatory: 

Date: 11/3/2023

SanAir Technologies Laboratory

SanAir ID Number
23060829
FINAL REPORT
11/3/2023 3:10:14 PM

Name: Northern Analytical Services, LLC
Address: 14870 225th Avenue
Big Rapids, MI 49307
Phone: 231-679-0005

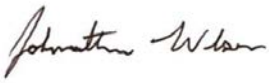
Project Number: 230148
P.O. Number:
Project Name:
Collected Date: 11/1/2023
Received Date: 11/2/2023 9:30:00 AM

Analyst: Poeppelman, Dustin

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
8401 / 23060829-006 Ceramic Tile & Grout, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
8402 / 23060829-007 Ceramic Tile & Grout, Ceramic Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
8402 / 23060829-007 Ceramic Tile & Grout, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
9002 / 23060829-008 Vinyl Sheet Flooring	Blue Non-Fibrous Homogeneous		100% Other	None Detected
10501 / 23060829-009 Caulk	Various Non-Fibrous Heterogeneous		95% Other	5% Chrysotile
10502 / 23060829-010 Caulk				Not Analyzed

Analyst: 
Analysis Date: 11/3/2023

Approved Signatory: 
Date: 11/3/2023

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the client named on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission to assure that parts of the report are not taken out of context and to maintain client confidentiality. The information provided in this report applies only to the samples submitted in the condition they were received at the laboratory and is relevant only for the date, time, and location of sampling. Samples were received in good condition unless otherwise noted on the report. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client, which includes the project name, project number, po number, sample collection dates, special instructions, samples collected by, sample numbers, sample identifications/ location, sample type, selected analysis type, and total area or volume that may affect the validity of the results. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. SanAir assumes no responsibility or liability for the manner in which results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, AIHA LAP, LLC or any other agency of the U.S. government. Samples are held for a period of 60 days.

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Accreditations, Licenses, or Certificates
NVLAP Lab Code 600227-0
State of Rhode Island Department of Health, Certification Number: PLM00144, TEM00144
State of West Virginia Bureau for Public Health, Analytical Laboratory Number: LT000637

SanAir Technologies Laboratory

10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos Chain of Custody

Form 140, Rev 7, 10/20/2022

SanAir ID Number: 23060829

Company: Northern Analytical Services, LLC	Project #: 230148	Collected by: Joshua Christie
Address: 14870 225th Ave.	Project Name: 11/1/2023	Phone #: (231) 679-0005
City, St., Zip: Big Rapids, MI, 49307	Date Collected:	Fax #: 866-214-4739
State of Collection: MI Account#: 2409	P.O. Number:	Email: jchristie@northernas.com/john@northernas.com

Bulk

ABB	PLM EPA 600/R-93/116	X
	Positive Stop	X
ABEPA	PLM EPA 400 Point Count	
ABB1K	PLM EPA 1000 Point Count	
ABBEN	PLM EPA NOB**	
ABBCH	TEM Chatfield**	
ABBTM	TEM EPA NOB**	
ABQ	PLM Qualitative	

** Available on 24-hr. to 5-day TAT

Water

ABHE	EPA 100.2	

Air

ABA	PCM NIOSH 7400	
ABA-2	OSHA w/ TWA*	
ABTEM	TEM AHERA	
ABATN	TEM NIOSH 7402	
ABT2	TEM Level II	
Other:		

New York ELAP

ABEPA2	NY ELAP 198.1	
ABENY	NY ELAP 198.6 PLM NOB	
ABBNY	NY ELAP 198.4 TEM NOB	
	Positive Stop	

Soil

ABSE	PLM EPA 600/R-93/116 (Qual.)	

Vermiculite

ABB	PLM EPA 600/R-93/116	
ABEPA3	PLM EPA 400 Point Count	
ABCM	Cincinnati Method	

Dust

ABWA	TEM Wipe ASTM D-6480	
ABDMV	TEM Microvac ASTM D-5755	

Matrix	Other	

Turn Around Times				
	3 HR (4 HR TEM) ☐	6 HR (8HR TEM) ☐	12 HR ☐	1 Day ☑
	☐ 2 Days	☐ 3 Days	☐ 4 Days	☐ 5 Days

Special Instructions: Point Count if <1%

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
1201	Lab Countertop	—	11/1/23	—	—	—
5906	Plaster	—		—	—	—
5907	Plaster	—		—	—	—
6802	Floor Tile & Mastic	—		—	—	—
6902	Floor Tile & Mastic	—		—	—	—
8401	Ceramic Tile & Grout	—		—	—	—
8402	Ceramic Tile & Grout	—		—	—	—
9002	Vinyl Sheet Flooring	—		—	—	—
10501	Caulk	—		—	—	—
10502	Caulk	—		—	—	—

Relinquished by	Date	Time	Received by	Date	Time
Joshua Christie	11/1/2023	1600	RMB	NOV 02 2023	9:30am

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

Photos


OSCODA AREA HIGH SCHOOL

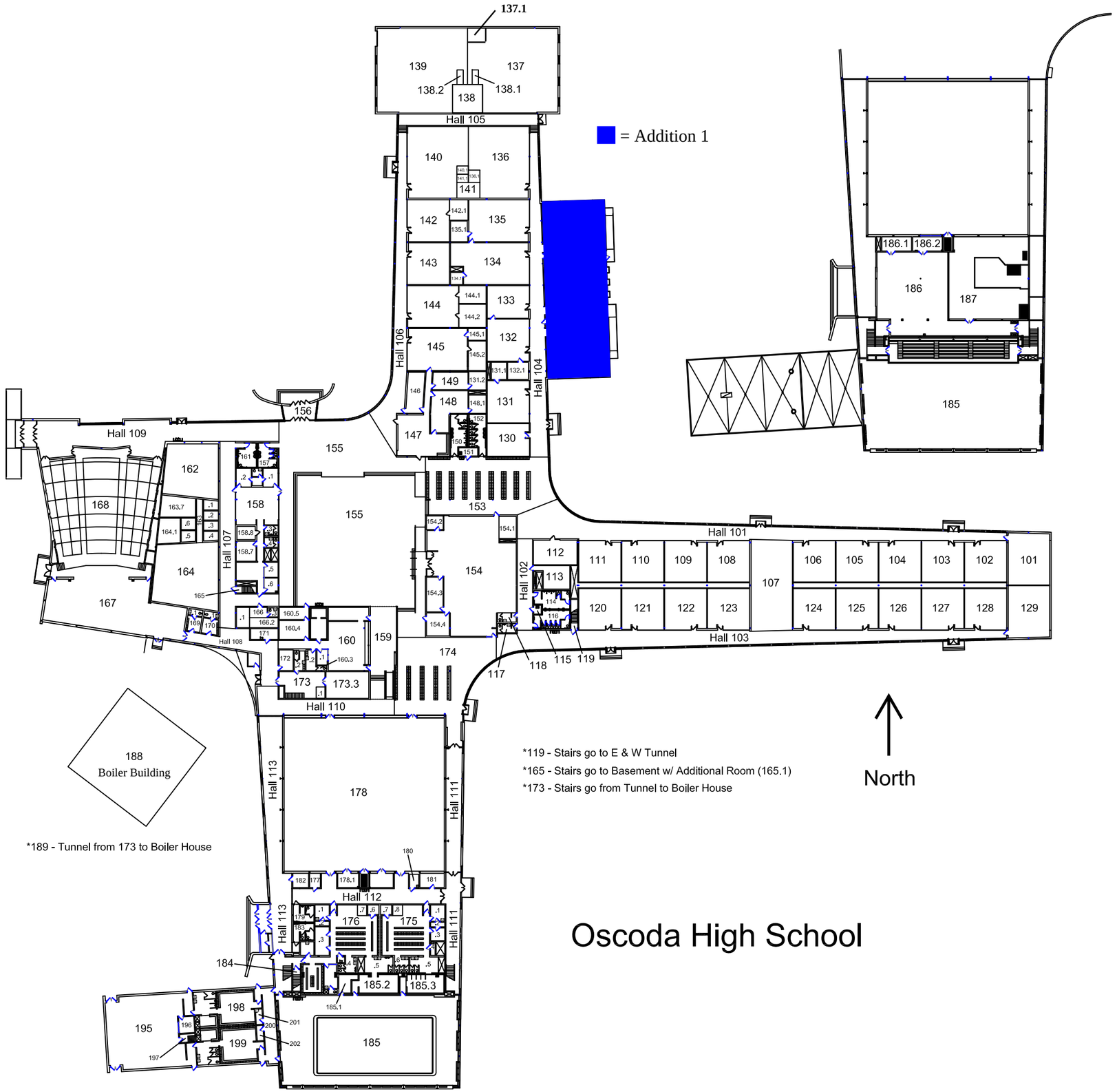

Light backing contains asbestos


Duct work insulation contains asbestos


Glued on ceiling tiles contain asbestos

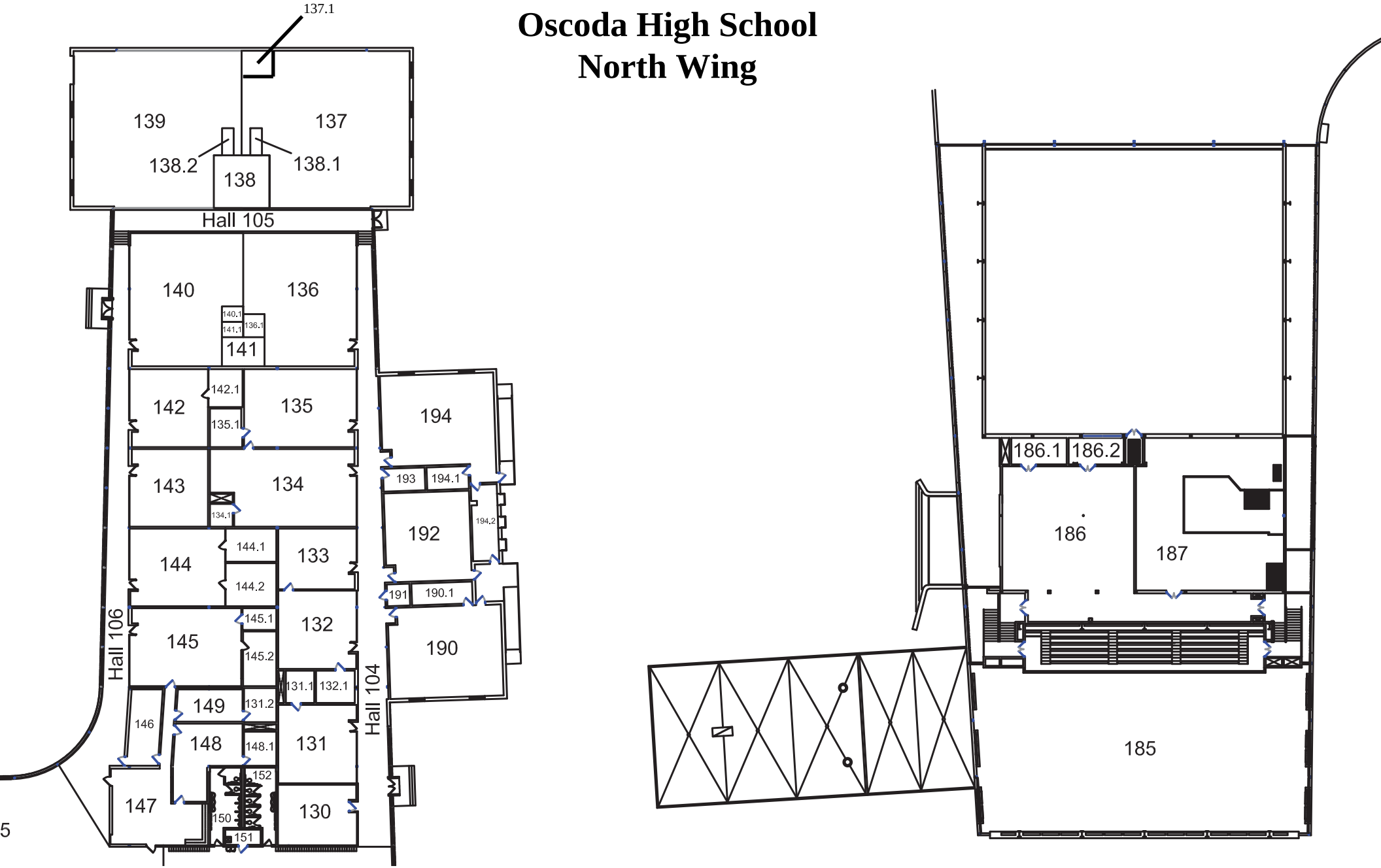
Mudded pipe fittings contain asbestos

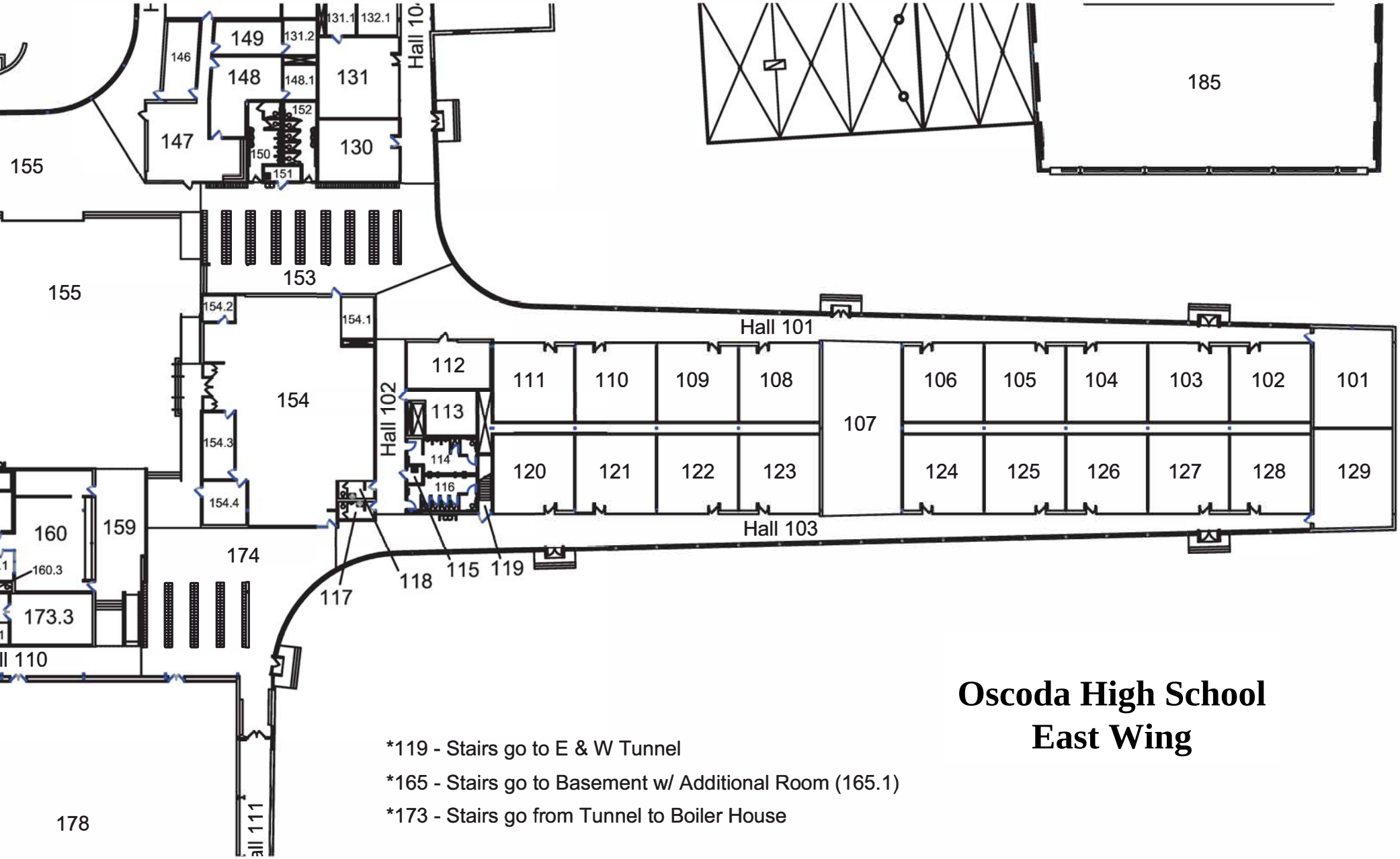
Floor Plans



Oscoda High School

Oscoda High School
North Wing



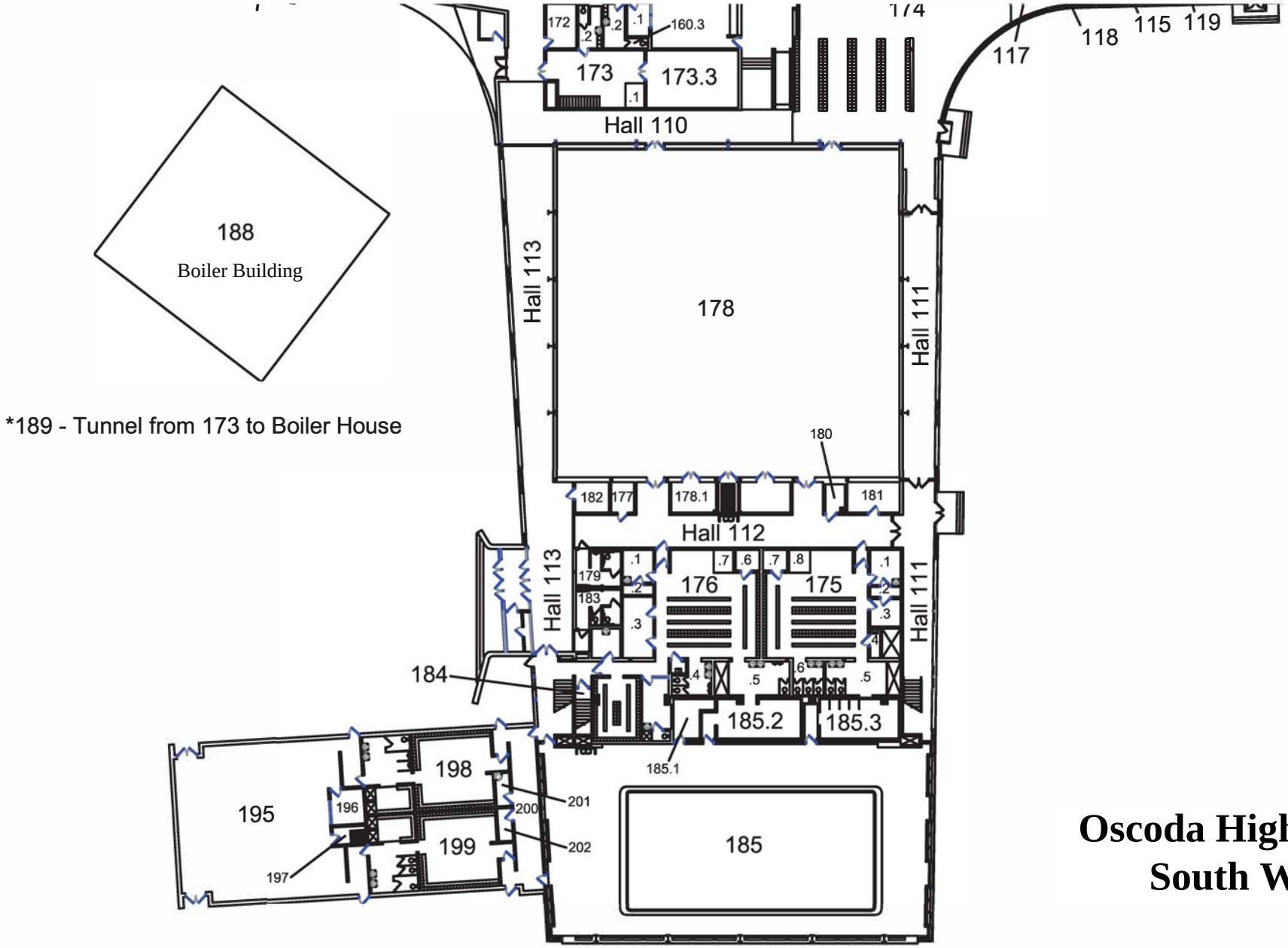


Oscoda High School
East Wing

*119 - Stairs go to E & W Tunnel

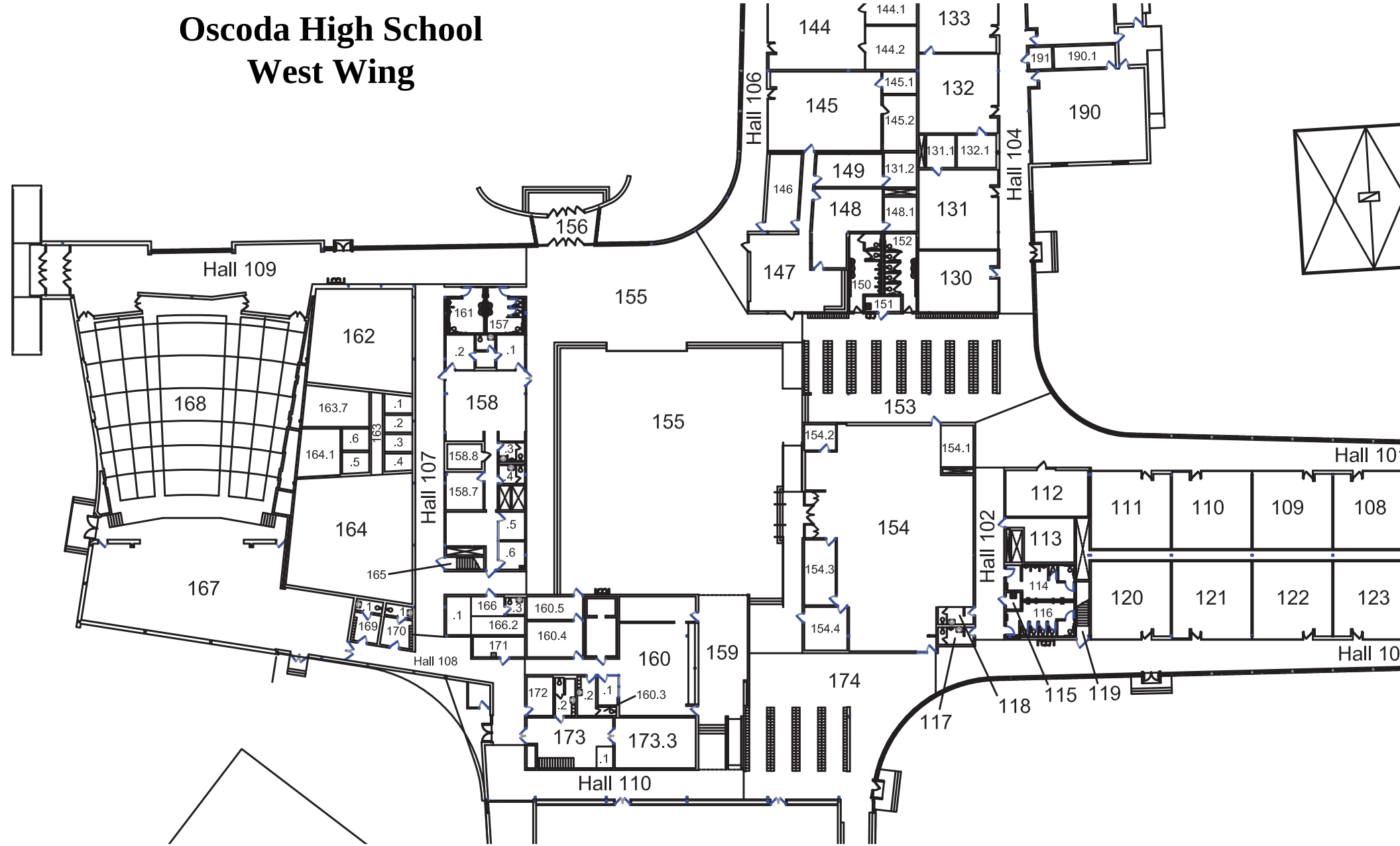
*165 - Stairs go to Basement w/ Additional Room (165.1)

*173 - Stairs go from Tunnel to Boiler House



Oscoda High School
South Wing

Oscoda High School
West Wing



NORTHERN
Analytical Services, LLC.
ENVIRONMENTAL CONSULTANTS

Three Year Asbestos Re-Inspection Report

For

Oscoda Area Schools
3550 East River Road
Oscoda, Michigan 48750

Prepared By:

Northern Analytical Services, LLC.
PO Box 1604
Big Rapids, Michigan 49307

Project No.: 230148
Report Date: November 05, 2023

14870 225th Ave., Big Rapids, Michigan 49307
Phone : 231-268-0004 Fax : 866-214-4739 Web : www.northernas.com

Oscoda Area Schools
3 Year Re-Inspection Report
Project No.: 230148
Report Date: November 5, 2023

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Introduction

The following Three-Year Asbestos Re-Inspection Report was completed by Northern Analytical Services, LLC. (NAS) for Oscoda Area Schools located at 3550 East River Road, Oscoda, Michigan 48750. Re-inspection activities were limited to the known or assumed asbestos containing materials identified in the previous re-inspection report.

In accordance with the US EPA under the National Emissions Standard for Hazardous Air Pollutants (NESHAPs), building owners and their contractors are responsible for having building materials tested for asbestos content prior to disturbance. This re-inspection is not intended to satisfy NESHAP requirements; Additional inspection and testing services will be necessary before performing renovations or other activities that will otherwise disturb building materials.

In accordance with the Asbestos Hazard Emergency Response Act (AHERA), all buildings owned and/or operated by K-12 school districts are required to be incorporated in the district's management plan. These regulations allow for buildings, or portions of buildings, constructed after 1988 to either be inspected for the presence of asbestos containing materials (ACM) or be accompanied by a statement from the architect/construction manager that no ACM was installed during construction activities. It is recommended that acceptable statements be obtained and attached to this report for any future renovation/construction activities.

Oscoda Area Schools
3 Year Re-Inspection Report
Project No.: 230148
Report Date: November 5, 2023

This re-inspection included the following buildings:

School Building Number	Building	Address	Re-Inspection Date
1	Oscoda High School	3550 East River Road, Oscoda, Michigan 48750	10/17/2023
2&3	Richardson Elementary/Middle School	3630 East River Road, Oscoda, Michigan 48750	10/17/2023
5	Oscoda Bus Garage	3632-3758 East River Road, Oscoda, Michigan 48750	10/17/2023
6	Oscoda High School Boiler Building	3550 East River Road, Oscoda, Michigan 48750	10/17/2023
7	Oscoda High School Field House	3550 East River Road, Oscoda, Michigan 48750	10/17/2023

Company Statement

This Re-inspection Report and Management Plan update was prepared by NAS to assist Oscoda Area Schools in meeting the 3 Year Re-Inspection requirements set forth by AHERA.

In preparation of this document, every attempt has been made to recommend the least burdensome response actions consistent with protecting human health and the environment as specified by AHERA.

AHERA states that the management plan is the responsibility of the owner/operator of the facility, also called the Local Education Agency (LEA); in this case the LEA is Oscoda Area Schools. It is the responsibility of the LEA to read and understand the response actions, their obligations, timetables, and to determine if these actions are reasonable actions prior to signing the owner/operator statement. Any changes or additions to this document without written authorization from NAS will automatically void the inspection and management plan statements.

If the LEA decides to make changes to this report without authorization from NAS or decides to make changes which conflict with the advice and/or professional judgment of NAS, a separate statement shall accompany the management plan and should specify which recommended actions the owner/operator has decided to change, the actual changes and rationale for the changes. NAS will not accept any responsibility for changes to any response actions that weren't stated previously by NAS.

Asbestos Background

Asbestos is a naturally occurring mineral. It is distinguished from other minerals by the fact that its crystals form long, thin fibers. Deposits of asbestos are found throughout the world. The primary sites of commercial production are Canada, China, Brazil, Zimbabwe, and South Africa. Asbestos is also mined commercially in limited quantities in the United States, in California and Vermont.

Asbestos has been used in thousands of products. Collectively, these are referred to as asbestos-containing material (ACM). Asbestos gained wide-spread use because it was plentiful, readily available and low in cost. Because of its unique properties – fire resistance, high tensile strength, poor heat and electrical conductivity and being generally impervious to chemicals attacks – asbestos proved well-suited for many uses in the construction trades.

Asbestos-related diseases are chronic diseases and symptoms usually do not appear for 15 to 40 years after initial exposures to airborne asbestos fibers. In nearly all cases, many years of exposure to high levels of airborne ACM is necessary for personnel to contract asbestos-related diseases.

The primary exposure route is inhalation. Inhaled fibers may become embedded in the bronchial tubes or alveoli, or they may pass through to the pleura – the lining of the chest cavity. Asbestos-related diseases include asbestosis, lung cancer, mesothelioma and gastrointestinal cancers.

Survey Procedures

Survey procedures were conducted by a State of Michigan accredited Asbestos Building Inspector in accordance with AHERA requirements.

To complete this survey, the inspector(s) reviewed the most recent re-inspection report and performed an inspection of the materials identified in that report as either known or assumed to be asbestos containing. During the inspection, the inspector visually inspected materials for damage or the potential for damage.

NAS did not conduct a thorough inspection of the building(s) to determine the presence, location, or quantity of materials suspected to contain asbestos. NAS only inspected the materials identified in the previous re-inspection. Prior to performing any renovation work NAS strongly recommends a thorough building inspection be performed.

Unknown Suspect Materials

It is likely that there are suspect asbestos containing materials present that have not been identified in this re-inspection or in previous AHERA inspections. Keep in mind

that in 1988 when AHERA was enacted many inspectors were new and likely missed some of the suspect materials. Additionally, new building materials have likely been added since the original AHERA inspection. It is a common misconception that asbestos has been banned, it is still legal to sell many types of building materials yet today that contain asbestos.

In addition to unknown/untested materials, many known asbestos containing materials have been removed over the years through renovation or maintenance activities. It is possible that the conditions at the time work was completed would not allow for complete removal and some portion of the ACM remain. The following are examples of this:

- Cabinets and unit vent heaters cover old floor tile.
- Floor tile was removed but the asbestos containing mastic remains and was covered with new flooring.
- Pipe insulation was abated where exposed but the asbestos insulation extends into a wall cavity.
- Spray applied acoustical ceilings were scrapped but the non-asbestos plaster substrate remains along with asbestos containing overspray above it.
- Spray applied fire proofing was removed but residual overspray remains in wall cavities and other hidden areas.

To help ensure suspect ACMs are not unknowingly disturbed it is crucial that the NESHAP regulations are closely followed and every space be thoroughly inspected and every building material be tested prior to disturbance. This report does not cover unknown or hidden suspect materials.

Facility Recommendations

Based on the findings of the Inspector, the following general site recommendations have been made:

Careful review of the included Response Action Report should be conducted by the Districts Designated Person. The reports titled Material Report will provide a detailed description of the suspect ACM found, asbestos content, friability, type of asbestos present, and the total quantity found in each building. Reports titled Response Action Report will provide a description of what ACMs were found in each room, comments on the specific location and damage if any was observed and response actions to be taken for each of the known or assumed ACM.

For materials that have been identified as damaged, it is recommended that a licensed abatement contractor be contacted to make any repairs or to conduct any removal activities needed.

In accordance with CFR 1910.1200, it is recommended that each ACM be properly labeled as asbestos containing. Warning labels should contain the following information:

Danger
Contains Asbestos Fibers
Avoid Creating Dust
Cancer and Lung Disease Hazard

Labels should be placed in various locations on each material in a manner to avoid accidental disturbance.

Prior to any renovation or maintenance activity, review the Management Plan to ensure materials being impacted by the renovation/activity do not contain asbestos. Should materials likely to be disturbed not be accurately described in the inspection reports, contact a licensed Asbestos Building Inspector to collect samples. Do not disturb materials not described in the Management Plan or materials identified as asbestos containing or assumed to contain asbestos.

If a disturbance occurs, either accidental or planned (abatement project), area air monitoring should be conducted to establish the airborne concentration of asbestos fibers present. Both State and Federal Agency strictly govern disturbance activities and exposure to employees and building occupants. Proper air sampling can determine if area contamination has occurred as well as help assure employees and building occupants in adjacent areas are not being exposed. In addition to area monitoring, AHERA requires third party area air clearance testing whenever a disturbance occurs.

Records of future renovation activities should be kept. These records should include what materials where disturbed and to what extent. Also, information on replacement materials is vital in keeping this survey up to date. Often Architects or Design Engineers can provide legal statements indicating that replacement materials do not contain asbestos. Other documentation of this sort would be material or product safety data sheets. If proper documentation is not available for suspect ACM’s located in building constructed prior to 1986, sample collection and analysis is required by State and Federal Regulations.

Both CFR 1910.110 and CFR 1926.110 require that employers provide awareness training to all employees that are expected to come in contact with or required to work in the general vicinity of ACM. In accordance with regulatory requirements, it is recommended that all housekeeping and maintenance employees receive, at a minimum, 2-hour asbestos awareness training. In addition, employees that are required to conduct minor cleanup projects shall be provided additional training.

Management Planner's Recommendations

All of the ACM or suspect ACM identified in this report was noted by the inspector as being in good condition unless specifically mentioned below under each building name. Continue the facility's operations and maintenance program and conduct periodic assessments (at least every 6 months) of all known or assumed asbestos containing materials.

The following recommendations (not all inclusive, see Response Actions for additional recommendations) are based on the inspector's findings, laboratory results and the management planner's opinion. Please note that all work described below must be completed either by in house properly trained 16-hour asbestos operations and maintenance personnel or a licensed asbestos abatement contractor. Third-party air clearance testing should be conducted following any repair/removal actions described below:

School Building Number 1 - Oscoda High School

1. All known friable ACM observed during this re-inspection was found to be in good condition with the following exceptions:
   - **A) Room 107 – Damaged ceiling tile in area. NAS recommends removal of the material.**
   - **B) Room 115 – Damaged fire rated door needs replaced. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.**
   - **C) Room 119 – Damaged duct work insulation. NAS recommends repair/removal of the material.**
   - **D) Room 131.1 – Damaged fire rated door needs replaced. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.**
   - **E) Room 137.1 – Damaged fire rated door needs replace. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.**
   - **F) Room 162 – Damaged ceiling tile throughout area. NAS recommends removal of the material.**
   - **G) Room 163 – Damaged ceiling tile throughout area. NAS recommends removal of the material.**
   - **H) Room 164 – Damaged ceiling tile throughout area. NAS recommends removal of the material.**
   - **I) Room 166.2 – Damaged fire rated door needs replaced. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.**

J) Room 172 – Damaged fire rated door needs replaced. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.
K) Room 173 – Damaged fire rated door needs replaced. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.
L) Room 175.4 – Damaged light backing. NAS recommends removal of the material.
M) Room 175.7 – Damaged light backing. NAS recommends removal of the material.
N) Room 176.8 – Damaged mudded pipe fittings. NAS recommends repair /removal of the material.
O) Room 176.10 – Damaged light backing. NAS recommends removal of the material.
P) Room 181 – 1 damaged mudded pipe fitting. NAS recommends repair/removal of the material.
Q) Room 187 – 2 damaged mudded pipe fittings. NAS recommends repair/removal of the material. Damaged duct work insulation. NAS recommends repair/removal of the material. Damage to one fire rated door. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.

School Building Number 2&3 - Richardson Elementary/Middle School

1. All known friable ACM observed during this re-inspection was found to be in good condition, continue to maintain materials in accordance with the Operations and Maintenance Program.

School Building Number 5 - Oscoda Bus Garage

1. All known friable ACM observed during this re-inspection was found to be in good condition, continue to maintain materials in accordance with the Operations and Maintenance Program.

School Building Number 6 - Oscoda High School Boiler Building

1. All known friable ACM observed during this re-inspection was found to be in good condition with the following exceptions:
   A) Boiler Room – 1 square foot of damaged tank insulation. NAS recommends removal or repair/encapsulation of the material.
   B) Boiler Room – 1 damaged fire rated door needs replaced. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.

*Going forward Boiler Building will now be included with the High School Building and is now function area 188.

School Building Number 7 - Oscoda High School Field House

1. All known friable ACM observed during this re-inspection was found to be in good condition with the following exceptions:
   A) Mechanical Room – Tank insulation has no wrap and is cracking. NAS recommends removal or repair/encapsulation of the material.

Signature Page

Inspection Statement

The person(s) listed below hereby attest(s) that he/she/they did inspect, assess and perform sampling of suspect asbestos containing building materials (ACBM) at the buildings/portions of buildings listed in this report in accordance with AHERA regulations set forth in 40 CFR Section 763.85(a):

Name	Accreditation Number	Signature	Date
Parker Denike	A60087		11/5/2023

Management Plan Statement

The person(s) listed below hereby attest(s) that he/she/they did review the asbestos re-inspection data collected by the asbestos building inspector for this re-inspection. Any recommendations are based on the above referenced inspection in accordance with AHERA regulations set forth in 40 CFR Section 763.93 (12), (ii).

Name	Accreditation Number	Signature	Date
John Rehkopf	A16809		11/5/2023

Local Education Information
Local Education Agency (LEA): Oscoda Area Schools
LEA Address: 3550 East River Road, Oscoda, Michigan 48750
Designated Person: Tony Brooks
Designated Person Address: 3550 East River Road, Oscoda, Michigan 48750
Designated Person Telephone: 989-739-2033

Training Certification
The Designated Person(s) listed above attests that he/she/they received adequate training covering the Local Education Agency's (LEA) responsibilities for Designated Person in accordance with 763.93 (e)(4). This training included:

- The health effects of asbestos exposure
- Detection, identification and assessment of ACBM
- Options for controlling ACBM
- Asbestos management programs
- Relevant State and Federal regulations regarding asbestos
- The LEA/Designated Person responsibilities.

Training was provided by:_____

Under the course titled: Asbestos Designated Person Training

on:_____, and was _____ hours in length.

Designated Person Signature: _____ _____
Tony Brooks Date

LEA Responsibility Certification

The Designated Person listed above certifies that the general LEA responsibilities as required by 763.84 have been or will be satisfied. This includes the following actions:

1. Anyone who conducts any inspections, re-inspections or abatement projects; develops or updates management plans; or performs operations and maintenance that will disturb ACM are licensed asbestos professionals.
2. All custodial and maintenance staff have received two-hour asbestos awareness training and 14 hours of operations and maintenance training (along with annual refreshers) as described in AHERA.
3. The parents, teachers and employee organizations are notified on an annual basis of all inspections, response actions and periodic surveillance that are planned or in progress in regard to asbestos in each school building.
4. Short-term workers (e.g., telephone repair workers, utility workers or exterminators) are informed of the locations of ACBM in school buildings.
5. Warning signs are posted immediately adjacent to ACM in routine maintenance areas that state:

   Danger. Asbestos. Hazardous.
   Do Not Disturb
   Without Proper Training and Equipment

6. Parents, teachers and employee organizations are notified in writing on an annual basis of the availability of the school's asbestos management plan.
7. The management plans are available for inspection in each school and the district office.
8. Records are properly maintained.
9. Each management plan contains a statement, signed by the designated person that certifies the LEA's responsibilities have been or will be met. The statement needs to be amended for each new designated person chosen by the LEA.
10. Re-inspections are conducted at least once every three years after a management plan is in effect.

As the Designated Person for Oscoda Area Schools, I will ensure that the above items are completed in accordance with AHERA.

_____	_____	_____
Signature of Designated Person	Tony Brooks	Date

Annual Notification

Annual AHERA Notifications to Employees, Students, and Parents.

The Asbestos Hazard Emergency Response Act (AHERA) requires schools to "ensure that workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress (763.84(c)). Such notification must be done in writing and a copy placed in the management plan. Suggested notification methods may be through the publication of an article in a school district newsletter or through a separate written notice distributed to staff and sent home to a student's parent or legal guardian.

In addition, schools "shall make management plans available for inspection to representatives of EPA and the State, the public, including parents, teachers, and other school personnel within 5 working days after receiving a request for inspection (763.93(g)(3)). Furthermore, "the local education agency shall notify in writing parent, teacher, and employee organizations of the availability of management plans and shall include in the management plan a description of steps to notify such organizations, and a dated copy of the notification. In the absence of any such organizations for parents, teachers, or employees, the local education agency shall provide written notice to that relevant group of the availability of management plans and shall include in the management plan a description of the steps taken to notify such groups and a dated copy of the notification" (763.93(g)(4)).

The LEA asbestos designated person for the school district is to ensure that these AHERA required notifications occur each school year. The school may determine when to do AHERA notification, as long as it occurs at least once each school year.

A copy of the annual notification can be found in Appendix A.

Appendix A
Notifications & Forms

Annual AHERA Notification

Oscoda Area Schools has an Asbestos Management Plan in place in accordance with the Asbestos Hazard Emergency Response Act (AHERA). The plan is available for review in the main office. Please call Mr. Tony Brooks at (989-739-2033) to view during normal operational hours, 8AM to 4PM Monday through Friday with the exception of holidays.

In accordance with AHERA requirements, Oscoda Area Schools has contracted Northern Analytical Services, LLC. (NAS) to perform all re-inspections of known asbestos containing materials present, to prepare written project designs for all response actions and to perform all post response action testing. As part of this plan, NAS performed the most recent 3-year re-inspection on 10/17/2023.

Over the past 12 months, the following materials were removed from our buildings:

In the next 12 months we are planning to remove the following materials from our buildings:

Prior to conducting any work that disturbs asbestos, Oscoda Area Schools will notify all parents and building staff in advance.

Sincerely,

Tony Brooks
Oscoda Area Schools

Asbestos Removal Notification

In an effort to provide our students with the best learning environment possible, Oscoda Area Schools is planning a building improvement project that will require the disturbance of asbestos containing materials. We have retained the services of a State of Michigan accredited Asbestos Project Designer to prepare written specifications to help ensure the work is completed in the safest manner possible. All removal work will be performed by a State of Michigan licensed asbestos abatement contractor and overseen by a qualified third-party air quality testing firm.

Third party air clearance testing will be performed before the areas affected by the asbestos removal are returned to normal use.

Asbestos Removal is scheduled to be removed from the following buildings:

Building Name	Start Date	Completion Date

Please contact our District's Designated Person, Mr. Tony Brooks at 989-739-2033 with any questions.

Asbestos Acknowledgement

Asbestos containing materials (ACM)'s are located in various areas of Oscoda Area Schools. All short-term workers (anyone performing work that may disturb any building materials) must first have received asbestos awareness training within the past 12 months and be made aware of the types, locations, and quantities of ACM present in our District. Training shall be in accordance with Part 602 Asbestos Standards for Construction-1926.1101, be at least 2 hours in length, and include the contents of our District's asbestos building survey.

A copy of the asbestos survey reports can be obtained by contacting the Asbestos Designated Person for Oscoda Area Schools, Mr. Tony Brooks at 989-739-2033.

All short-term workers must return a signed copy of this form to Mr. Brooks before disturbing any building materials.

By signing this form _____ of _____ acknowledges there is asbestos present in various areas of Oscoda Area Schools and accepts all liability associated with repairing, cleaning, and testing should any representative of our company, or our sub-contractor(s) improperly disturb any asbestos containing material. In addition, I attest that all of our employees, sub-contractors and their employees who perform services at Oscoda Area Schools that causes the disturbance of building materials have been provided asbestos awareness training within the past 12 months that specifically included information regarding the presence, location, and quantity of ACM at Oscoda Area Schools.

Company Representative Legally Authorized to Sign this form:

_____	_____	_____
Signature	Title	Date

By signing below, you are attesting that you have received asbestos awareness training within the past 12 months that included information regarding the presence, location, and quantity of ACM at Oscoda Area Schools.

Individual's name	Signature	Date of Training

Local Education Agency (LEA) Name

Oscoda Area Schools

School Building Number/Name

1-Oscoda High School

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last	First	M.I.

2. Date of the Surveillance:

3. Description of any Changes in the Condition of the Materials:

Local Education Agency (LEA) Name

Oscoda Area Schools

School Building Number/Name

2&3-Richardson Elementary/Middle School

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last	First	M.I.

2. Date of the Surveillance:

3. Description of any Changes in the Condition of the Materials:

Local Education Agency (LEA) Name

Oscoda Area Schools

School Building Number/Name

5-Oscoda Bus Garage

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last	First	M.I.

2. Date of the Surveillance:

3. Description of any Changes in the Condition of the Materials:

Local Education Agency (LEA) Name

Oscoda Area Schools

School Building Number/Name

6-Oscoda High School Boiler Building

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last	First	M.I.

2. Date of the Surveillance:

3. Description of any Changes in the Condition of the Materials:

Local Education Agency (LEA) Name

Oscoda Area Schools

School Building Number/Name

7-Oscoda High School Field House

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last	First	M.I.

2. Date of the Surveillance:

3. Description of any Changes in the Condition of the Materials:

Appendix B
Inspection Data

Oscoda High School

Material Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
Oscoda, MI 48750
Printed: November 5, 2023

Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	Thermal	Yes	Yes	Yes	CH-40%, A-5%	Amosite	1502	Ln.Ft.
2	Duct Work Insulation - Jacket Insulation	Thermal	Yes	Yes	Yes	60%	Chrysotile	1700	Sq.Ft.
3	Pipe Insulation - Roof Drain	Thermal	Yes	Yes	Yes	CH-20%, A-5%	Amosite	2	Ln.Ft.
4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	Surfacing	Yes	Yes	Yes	T-2%, G-ND	Amosite	72290	Sq.Ft.
5	Transite - Siding	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	981	Sq.Ft.
6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-3%, M-4%	Chrysotile	8425	Sq.Ft.
7	Vibration Dampener Cloth - White	Misc.	Category II Non-Friable	Yes	Yes	40%	Chrysotile	15	Sq.Ft.
8	Fume Hood -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	40	Sq.Ft.
9	Fire Brick -	Thermal	Category II Non-Friable	Yes	Yes	---	Assumed	30	Sq.Ft.
10	Fire Rated Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	38	Each
11	Caulk - On Exterior Aluminum Window Frame, Grey, Pliable	Misc.	No	No	No	---	None Detected	31	Sq.Ft.
12	Laboratory Counter Top -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	280	Sq.Ft.
13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	9	Sq.Ft.
14	Caulk - On Exterior Steel Sidelight, Grey, Brittle	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	0	Sq.Ft.
15	Glazing - On Exterior Steel Sidelight, Grey, Brittle	Misc.	Category II Non-Friable	Yes	Yes	5%	Chrysotile	0	Sq.Ft.

** Non-Friable materials may become friable when damaged.*
*** May become regulated asbestos containing material (RACM) when damaged.*

Misc. = miscelleaneous material
Surfacing = surfacing material
Thermal = thermal system insulation
RACM = regulated asbestos containing material

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
Oscoda, MI 48750

Printed: November 5, 2023

Material Report

Material Number	Homogeneous Material Description	Category	Friability*	RACM**	Asbestos Detected	Percent Asbestos	Asbestos Type	Quantity	Units
16	Texture - Above Door Frame, White, Bumpy	Surfacing	Category II Non-Friable	Yes	Yes	3%	Chrysotile	0	Sq.Ft.
17	Glazing - Door With Dual 2ft x 4ft Windows	Misc.	Category II Non-Friable	Yes	Yes	5%	Chrysotile	4	Sq.Ft.
18	Caulk - On Concrete Frame, Grey Pliable	Misc.	No	No	No	---	None Detected	9	Sq.Ft.
19	Glazing - On Door with 2ft x 5ft Window	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	0	Sq.Ft.
20	Caulk - On Exterior Steel Transom, Grey, Brittle	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	0	Sq.Ft.
21	Cove Base - 4in Grey	Misc.	No	No	No	---	None Detected	105	Sq.Ft.
22	Cove Base - 4in Light Blue	Misc.	No	No	No	---	None Detected	80	Sq.Ft.
23	Ceramic Block & Grout - 18in x 4in Grey	Misc.	Category II Non-Friable	No	Yes	---	Assumed	730	Sq.Ft.
24	Drywall & Joint Compound -	Misc.	No	No	No	---	None Detected	58395	Sq.Ft.
25	Glue - Assumed Behind Visual Display Board	Misc.	Category II Non-Friable	No	Yes	---	Assumed	11514	Sq.Ft.
26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	Misc.	Category I Non-Friable	No	Yes	---	Assumed	2895	Sq.Ft.
27	Wood Door - Solid Wood	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	156	Sq.Ft.
28	Glazing - On Interior Steel Storefront Frame	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	3	Sq.Ft.
29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-4%, M-7%	Chrysotile	14890	Sq.Ft.
30	Caulk - On Interior Steel Door Frame, Grey, Brittle	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	158	Sq.Ft.

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Oscoda, MI 48750

Printed: November 5, 2023

Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-4%, M-5%	Chrysotile	6250	Sq.Ft.
32	Ceramic Tile - 4in x 4in White	Misc.	Category II Non-Friable	No	Yes	---	Assumed	1980	Sq.Ft.
33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Thermal	Yes	Yes	Yes	---	Assumed	2795	Ln.Ft.
34	No Access - No Access	Misc.	Yes	Yes	Yes	---	Assumed	0	Each
35	Cove Base - 4in Black	Misc.	No	No	No	---	None Detected	390	Sq.Ft.
36	Ceramic Tile & Grout - 2ft x 1 ft Grey	Misc.	Category II Non-Friable	No	Yes	---	Assumed	2060	Sq.Ft.
37	Caulk - On Bathroom Stalls	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
38	Caulk - Expansion Joint, Grey Brittle	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	8	Sq.Ft.
39	Ceiling Tile - 2ft x 2ft White Pinholes with Random Gouges	Misc.	Yes	No	No	---	None Detected	17390	Sq.Ft.
40	Caulk - On Interior Steel Storefront Frame	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	4	Sq.Ft.
41	Tank Insulation - White	Thermal	Yes	Yes	Yes	CH-20%, A-25%	Amosite	533	Sq.Ft.
42	Glue - Black, Behind Fiberglass/Jacket Insulation	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	300	Sq.Ft.
43	Caulk - Brown, Brittle, Duct Work Caulk	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	700	Sq.Ft.
44	Miscellaneous - Assumed Water Gaskets	Misc.	Category II Non-Friable	No	Yes	---	Assumed	306	Sq.Ft.
45	Miscellaneous - Black Tar on Tunnel Wall	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	175	Sq.Ft.

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Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
46	Floor Tile & Mastic - 9in x 9in Light Green with Dark Green and Grey Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-3%, M-5%	Chrysotile	3365	Sq.Ft.
47	Sink Undercoating - Pink	Surfacing	No	No	No	---	None Detected	1	Sq.Ft.
48	Floor Tile & Mastic - 12in x 12in Greyish Blue w/ Red, Blue, & White Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-ND, M-4-7%	Chrysotile	2635	Sq.Ft.
49	Flooring - Terrazzo, Yellowish Tan	Misc.	No	No	No	---	None Detected	3900	Sq.Ft.
50	Flooring Layer Assumed Under Surface Layer -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	9165	Sq.Ft.
51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	Misc.	Category II Non-Friable	No	Yes	3%	Chrysotile	3	Sq.Ft.
52	Ceramic Tile & Grout - 2in x 2in Blue and Light Blue with White Flecks	Misc.	No	No	No	---	None Detected	425	Sq.Ft.
53	Miscellaneous - Tack Board	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	229	Sq.Ft.
54	Light Backing - Silver	Misc.	Yes	Yes	Yes	85%	Chrysotile	26	Sq.Ft.
55	Caulk - On Interior Steel Sidelight Frame	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	66	Sq.Ft.
56	Glazing - On Interior Steel Sidelight Frame	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	5	Sq.Ft.
57	Sink Undercoating - Black	Surfacing	Category II Non-Friable	No	Yes	7%	Chrysotile	2	Sq.Ft.
58	Vinyl Sheet Flooring - Grey Wood like Appearance, Yellow Mastic	Misc.	No	No	No	---	None Detected	3595	Sq.Ft.
59	Plaster - Smooth	Surfacing	Yes	No	No	---	None Detected	20055	Sq.Ft.
60	Floor Tile & Mastic - 12in x 12 in White with Grey and Silver Streaks and Blotches	Misc.	Category I Non-Friable	No	Yes	T-ND, M-4-7%	Chrysotile	100	Sq.Ft.

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Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
61	Ceiling Tile - 2ft x 4ft White with Varying Size Pinholes	Misc.	Yes	No	No	---	None Detected	6185	Sq.Ft.
62	Sink Undercoating - White	Surfacing	No	No	No	---	None Detected	7	Sq.Ft.
63	Caulk - On Interior Steel Window Frame	Misc.	Category II Non-Friable	No	Yes	3%	Chrysotile	7	Sq.Ft.
64	Glazing - On Interior Steel Window Frame	Misc.	Category II Non-Friable	Yes	Yes	5%	Chrysotile	6	Sq.Ft.
65	Ceramic Tile & Grout - 2ft x 1ft Grey Sandstone Appearance	Misc.	Category II Non-Friable	No	Yes	---	Assumed	216	Sq.Ft.
66	Acoustical Ceiling - White with Fluffy/Flakey Texture	Surfacing	Yes	No	No	---	None Detected	600	Sq.Ft.
67	Miscellaneous - Tar, Black, Clock/Speaker Backing	Misc.	Category II Non-Friable	No	Yes	7%	Chrysotile	70	Sq.Ft.
68	Floor Tile & Mastic - 12in x 12 in White with Purple, Dark Blue, and Grey Spots	Misc.	No	No	No	---	None Detected	150	Sq.Ft.
69	Floor Tile & Mastic - Grey with Dark Grey and White Streaks	Misc.	No	No	No	---	None Detected	150	Sq.Ft.
70	Acoustical Ceiling - White, Bumpy and Rough Texture	Surfacing	Yes	No	No	---	None Detected	12470	Sq.Ft.
71	Miscellaneous - Safe Door	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	1	Sq.Ft.
72	Miscellaneous - Fire Resistant File Cabinet	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	2	Sq.Ft.
73	Ceramic Tile & Grout - 1ft x 1ft Grey with White and Black Spots	Misc.	Category II Non-Friable	No	Yes	---	Assumed	900	Sq.Ft.
74	Ceramic Tile & Grout - 4in x 4in Green with White Flecks/Spots	Misc.	Category II Non-Friable	No	Yes	---	Assumed	1100	Sq.Ft.
75	Ceramic Block & Grout - 12in x 4in White	Misc.	Category II Non-Friable	No	Yes	---	Assumed	8770	Sq.Ft.

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Material Report

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76	Tar, Felt & Associated Mastic Layers Under Wood Floor - Wood Stands	Misc.	Category I Non-Friable	No	Yes	---	Assumed	600	Sq.Ft.
77	Glazing - On Non-Rated Wood Door with 1ft x 1ft Window	Misc.	No	No	No	---	None Detected	9	Sq.Ft.
78	Cement Board - Green With Holes	Misc.	Category II Non-Friable	Yes	Yes	15%	Chrysotile	3700	Sq.Ft.
79	Miscellaneous - Black Tar on Fiberglass Mats	Misc.	No	No	No	---	None Detected	13700	Sq.Ft.
80	Flooring-Carpet Glue - Yellow	Misc.	No	No	No	---	None Detected	2330	Sq.Ft.
81	Tar, Felt & Associated Mastic Layers Under Wood Floor -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	13500	Sq.Ft.
82	Curtain - Black, Stage	Misc.	No	No	No	---	None Detected	2000	Sq.Ft.
83	Curtain - Blue, Stage	Misc.	No	No	No	---	None Detected	1000	Sq.Ft.
84	Ceramic Tile & Grout - 2in x 2in Tan	Misc.	No	No	No	---	None Detected	125	Sq.Ft.
85	Caulk - On Exterior Aluminum Storefront Frame	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	4	Sq.Ft.
86	Glazing - On Exterior Aluminum Storefront Frame	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	3	Sq.Ft.
87	Ceramic Tile & Grout - 1in x 1in Light Brown	Misc.	Category II Non-Friable	No	Yes	---	Assumed	585	Sq.Ft.
88	Floor Tile & Mastic - 12in x 12in White and Blue, Light Blue Flecks	Misc.	No	No	No	---	None Detected	3060	Sq.Ft.
89	Ceramic Tile & Grout - 1in x 1in Green and Teal with White Spots	Misc.	Category II Non-Friable	No	Yes	---	Assumed	9035	Sq.Ft.
90	Vinyl Sheet Flooring - Blue	Misc.	No	No	No	---	None Detected	830	Sq.Ft.

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91	Glazing - On Trophy Case, Brown/Grey, Brittle	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	4	Sq.Ft.
92	Caulk - On Interior Aluminum Door Frame, Hard, Grey	Misc.	Category II Non-Friable	No	Yes	3%	Chrysotile	2	Sq.Ft.
93	Vibration Dampener Cloth - Black	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
94	Caulk - Grey Ductwork	Misc.	No	No	No	---	None Detected	200	Sq.Ft.
95	Miscellaneous - Rope Gasket - Hurst Boiler	Misc.	Category II Non-Friable	No	Yes	---	Assumed	4	Sq.Ft.
96	Boiler Material (inside) - 2009 Hurst Boilers, 5ft x 10ft x 5ft.	Thermal	Yes	Yes	Yes	---	Assumed	500	Sq.Ft.
97	Boiler Material (inside) - Steam-Pak 1960, 6ft x 18ft x 6ft	Thermal	Yes	Yes	Yes	---	Assumed	504	Sq.Ft.
98	Boiler Insulation - Interior Jacketing - Steam Pak Boiler	Thermal	Yes	No	No	---	None Detected	Not Quantified	Sq.Ft.
99	Boiler Insulation - Interior Jacketing - Hurst Boiler	Thermal	Yes	No	No	---	None Detected	Not Quantified	Sq.Ft.
100	Pipe Insulation - Fiberglass	Thermal	Yes	No	No	---	None Detected	Not Quantified	Ln.Ft.
101	Miscellaneous - Fire Hose	Misc.	Category II Non-Friable	No	Yes	---	Assumed	5	Sq.Ft.
102	Miscellaneous - Rope Gasket, Spools	Misc.	Category II Non-Friable	No	Yes	---	Assumed	2	Sq.Ft.
103	Glazing - On Exterior Aluminum Window Frame	Misc.	Category II Non-Friable	Yes	Yes	2%	Chrysotile	1	Sq.Ft.
104	Miscellaneous - Brick and Mortar, Original Building	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
105	Caulk - Exterior Louver	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	1	Sq.Ft.

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*** May become regulated asbestos containing material (RACM) when damaged.*

Misc. = miscelleaneous material
Surfacing = surfacing material
Thermal = thermal system insulation
RACM = regulated asbestos containing material

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School
Address: 3550 River Road
Oscoda, MI 48750

Printed: November 5, 2023

Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
106	Texture - On Exterior Transite Panels	Surfacing	Yes	Yes	Yes	---	Assumed	2000	Sq.Ft.
107	Floor Tile & Mastic - 12in x 12in White w/ Grey & Silver Streaks & Blotches, Yellow Mastic	Misc.	No	No	No	---	None Detected	4090	Sq.Ft.
108	Cove Base - 4in Light Blue	Misc.	No	No	No	---	None Detected	50	Sq.Ft.
109	Floor Tile & Mastic - Assumed Under Cabinets	Misc.	Category I Non-Friable	No	Yes	---	Assumed	280	Sq.Ft.
110	Ceramic Tile & Grout - 4in x 6in Grey with Black Dots	Misc.	Category II Non-Friable	No	Yes	---	Assumed	30	Sq.Ft.
111	Laboratory Counter Top - Black	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	230	Sq.Ft.
112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Thermal	Yes	Yes	Yes	---	Assumed	210	Ln.Ft.
113	Glue - Assumed Behind Visual Display Board	Misc.	Category II Non-Friable	No	Yes	---	Assumed	688	Sq.Ft.
114	Caulk - On Interior Steel Door Frame	Misc.	No	No	No	---	None Detected	19	Sq.Ft.
115	Fire Rated Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	12	Each
116	Caulk - On Exterior Steel Door Frame	Misc.	No	No	No	---	None Detected	10	Sq.Ft.
117	Wood Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	20	Sq.Ft.
118	Vibration Dampener Cloth - Black	Misc.	No	No	No	---	None Detected	3	Sq.Ft.
119	Caulk - On Exterior Wood Window Frame	Misc.	No	No	No	---	None Detected	4	Sq.Ft.
120	No Access -	Misc.	Yes	Yes	Yes	---	Assumed	0	Each

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121	Ceiling Tile - 2ft x 4ft White with Random Size Pinholes	Misc.	Yes	No	No	---	None Detected	1555	Sq.Ft.
122	Sink Undercoating - White	Surfacing	No	No	No	---	None Detected	1	Sq.Ft.
123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	Misc.	Category II Non-Friable	No	Yes	---	Assumed	4510	Sq.Ft.
124	Cove Base - 4in Black	Misc.	No	No	No	---	None Detected	15	Sq.Ft.
125	Caulk - Expansion Joint	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
126	Caulk - Interior Steel Window Frame	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
127	Caulk - Grey, Ductwork	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
128	Ceramic Tile & Grout - 2in x 2in Tan	Misc.	Category II Non-Friable	No	Yes	---	Assumed	300	Sq.Ft.
129	Plaster - White with Rough Bumpy Texture	Surfacing	Yes	No	No	---	None Detected	900	Sq.Ft.
130	Brick & Mortar - Addition 1	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
131	Texture - On Soffits, Addition 1	Surfacing	Yes	No	No	---	None Detected	Not Quantified	Sq.Ft.
132	Ceramic Tile & Grout - 12in x 12in Tan	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	150	Sq.Ft.
133	Ceramic Tile & Grout - 1in x 1in Light Blue	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	225	Sq.Ft.

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Response Action Report

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Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
101	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	900	Sq.Ft.		maintain with O&M plan. (7)
101	5	Transite - Siding	10	Sq.Ft.	On Door Frame	maintain with O&M plan. (7)
101	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	900	Sq.Ft.		maintain with O&M plan. (7)
101	23	Ceramic Block & Grout - 18in x 4in Grey	25	Sq.Ft.	As Cove Base on North and East Walls	maintain with O&M plan. (7)
101	25	Glue - Assumed Behind Visual Display Board	160	Sq.Ft.	105 on East Wall 55 on West Wall	maintain with O&M plan. (7)
101	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	75	Sq.Ft.	West Wall	maintain with O&M plan. (7)
101	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
101	28	Glazing - On Interior Steel Storefront Frame	1	Sq.Ft.		maintain with O&M plan. (7)
102	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	730	Sq.Ft.		maintain with O&M plan. (7)
102	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
102	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
102	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)
102	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
102	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
102	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	730	Sq.Ft.		maintain with O&M plan. (7)
103	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	5	Ln.Ft.		maintain with O&M plan. (7)

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103	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	730	Sq.Ft.		maintain with O&M plan. (7)
103	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
103	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
103	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)
103	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
103	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
103	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	730	Sq.Ft.		maintain with O&M plan. (7)
104	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	540	Sq.Ft.		maintain with O&M plan. (7)
104	5	Transite - Siding	10	Sq.Ft.	North Wall	maintain with O&M plan. (7)
104	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
104	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)
104	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
104	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
104	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	540	Sq.Ft.		maintain with O&M plan. (7)
105	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	540	Sq.Ft.		maintain with O&M plan. (7)
105	5	Transite - Siding	10	Sq.Ft.	North Wall	maintain with O&M plan. (7)

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105	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
105	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)
105	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
105	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
105	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	540	Sq.Ft.		maintain with O&M plan. (7)
106	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	540	Sq.Ft.		maintain with O&M plan. (7)
106	5	Transite - Siding	10	Sq.Ft.	North Wall	maintain with O&M plan. (7)
106	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
106	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)
106	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
106	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
106	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	540	Sq.Ft.		maintain with O&M plan. (7)
107	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	10	Ln.Ft.	5 Fittings and 5 Hangers	maintain with O&M plan. (7)
107	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	1050	Sq.Ft.	Some Damaged Tile	remove or repair damage ASAP. (4)
107	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	1050	Sq.Ft.		maintain with O&M plan. (7)
107	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base On West Wall	maintain with O&M plan. (7)

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Room Number	Material Number	Homogeneous Material Description	Quantity	Units	Comments	Response Action (AHERA Ranking)
107	25	Glue - Assumed Behind Visual Display Board	350	Sq.Ft.	200 on West Wall 50 on East Wall and 100 on South Wall	maintain with O&M plan. (7)
107	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
107	32	Ceramic Tile - 4in x 4in White	50	Sq.Ft.	West Wall	maintain with O&M plan. (7)
107	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Sinks at North and West Wall	maintain with O&M plan. (7)
108	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	750	Sq.Ft.		maintain with O&M plan. (7)
108	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
108	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
108	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)
108	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
108	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
108	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
108	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	750	Sq.Ft.		maintain with O&M plan. (7)
109	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	750	Sq.Ft.		maintain with O&M plan. (7)
109	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
109	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
109	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)

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109	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
109	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
109	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
109	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	750	Sq.Ft.		maintain with O&M plan. (7)
110	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	750	Sq.Ft.		maintain with O&M plan. (7)
110	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
110	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
110	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)
110	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
110	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
110	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
110	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	750	Sq.Ft.		maintain with O&M plan. (7)
111	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	750	Sq.Ft.		maintain with O&M plan. (7)
111	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
111	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
111	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)

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111	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
111	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
111	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
111	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	750	Sq.Ft.		maintain with O&M plan. (7)
112	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	120	Sq.Ft.	In Closet	maintain with O&M plan. (7)
112	10	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
112	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
112	50	Flooring Layer Assumed Under Surface Layer -	450	Sq.Ft.		maintain with O&M plan. (7)
112	55	Caulk - On Interior Steel Sidelight Frame	60	Sq.Ft.	6x10ft	maintain with O&M plan. (7)
113	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	5	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
113	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	3x7ft	maintain with O&M plan. (7)
113	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	20	Sq.Ft.	Potentially 270 Under Carpet	maintain with O&M plan. (7)
113	50	Flooring Layer Assumed Under Surface Layer -	270	Sq.Ft.		maintain with O&M plan. (7)
114	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	1	Ln.Ft.		maintain with O&M plan. (7)
114	3	Pipe Insulation - Roof Drain	1	Ln.Ft.		maintain with O&M plan. (7)
114	25	Glue - Assumed Behind Visual Display Board	10	Sq.Ft.	Mirror at West Wall	maintain with O&M plan. (7)

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114	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
114	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	25 for Toilets at North Wall 15 at Sink at South Wall	maintain with O&M plan. (7)
114	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	300	Sq.Ft.	Floor and Cove Base	maintain with O&M plan. (7)
115	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
115	54	Light Backing - Silver	1	Sq.Ft.		maintain with O&M plan. (7)
115	117	Wood Door -	1	Sq.Ft.	Metal w/ Grate, Holes in Door	remove or repair damage ASAP. (4)
116	25	Glue - Assumed Behind Visual Display Board	10	Sq.Ft.	Mirror at West Wall	maintain with O&M plan. (7)
116	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
116	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	25 for Toilets at North Wall 15 at Sink at South Wall	maintain with O&M plan. (7)
116	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	300	Sq.Ft.	Floor and Cove Base	maintain with O&M plan. (7)
117	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	80	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
117	25	Glue - Assumed Behind Visual Display Board	15	Sq.Ft.	East and South Walls	maintain with O&M plan. (7)
117	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
117	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
117	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	Toilet at North Wall, Heater and Sink at South Wall, and 5 Above Ceiling	maintain with O&M plan. (7)
117	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	80	Sq.Ft.		maintain with O&M plan. (7)

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118	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	80	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
118	25	Glue - Assumed Behind Visual Display Board	15	Sq.Ft.	East and South Walls	maintain with O&M plan. (7)
118	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
118	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
118	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	Toilet at North Wall, Heater and Sink at South Wall, and 5 Above Ceiling	maintain with O&M plan. (7)
118	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	80	Sq.Ft.		maintain with O&M plan. (7)
119	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	100	Ln.Ft.	Vary in Size	maintain with O&M plan. (7)
119	2	Duct Work Insulation - Jacket Insulation	300	Sq.Ft.	Damaged Duct Work Insulation	remove or repair damage ASAP. (4)
119	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	90	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
119	7	Vibration Dampener Cloth - White	5	Sq.Ft.	On Large Air Handling Units	maintain with O&M plan. (7)
119	10	Fire Rated Door -	1	Each	Solid Steel	maintain with O&M plan. (7)
119	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
119	38	Caulk - Expansion Joint, Grey Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
119	41	Tank Insulation - White	25	Sq.Ft.	3ft x 3ft x 6ft Cylindrical Tank	maintain with O&M plan. (7)
119	42	Glue - Black, Behind Fiberglass/Jacket Insulation	300	Sq.Ft.	Behind Jacket Insulation	maintain with O&M plan. (7)
119	43	Caulk - Brown, Brittle, Duct Work Caulk	500	Sq.Ft.		maintain with O&M plan. (7)

Northern Analytical Services

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119	44	Miscellaneous - Assumed Water Gaskets	100	Sq.Ft.		maintain with O&M plan. (7)
120	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	750	Sq.Ft.		maintain with O&M plan. (7)
120	5	Transite - Siding	30	Sq.Ft.	South Wall	maintain with O&M plan. (7)
120	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
120	25	Glue - Assumed Behind Visual Display Board	300	Sq.Ft.	North, East, and West Walls	maintain with O&M plan. (7)
120	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
120	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
120	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
120	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	750	Sq.Ft.		maintain with O&M plan. (7)
121	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	750	Sq.Ft.		maintain with O&M plan. (7)
121	5	Transite - Siding	30	Sq.Ft.	South Wall	maintain with O&M plan. (7)
121	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
121	25	Glue - Assumed Behind Visual Display Board	300	Sq.Ft.	North, East, and West Walls	maintain with O&M plan. (7)
121	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
121	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
121	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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121	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	750	Sq.Ft.		maintain with O&M plan. (7)
122	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	750	Sq.Ft.		maintain with O&M plan. (7)
122	5	Transite - Siding	30	Sq.Ft.	South Wall	maintain with O&M plan. (7)
122	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
122	25	Glue - Assumed Behind Visual Display Board	300	Sq.Ft.	North, East, and West Walls	maintain with O&M plan. (7)
122	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
122	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
122	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
122	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	750	Sq.Ft.		maintain with O&M plan. (7)
123	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	750	Sq.Ft.		maintain with O&M plan. (7)
123	5	Transite - Siding	30	Sq.Ft.	South Wall	maintain with O&M plan. (7)
123	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
123	25	Glue - Assumed Behind Visual Display Board	300	Sq.Ft.	North, East, and West Walls	maintain with O&M plan. (7)
123	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
123	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
123	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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123	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	750	Sq.Ft.		maintain with O&M plan. (7)
123	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
124	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	550	Sq.Ft.		maintain with O&M plan. (7)
124	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
124	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
124	25	Glue - Assumed Behind Visual Display Board	300	Sq.Ft.	North, East, and West Walls	maintain with O&M plan. (7)
124	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At South Wall	maintain with O&M plan. (7)
124	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
124	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	550	Sq.Ft.		maintain with O&M plan. (7)
124	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
124	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
125	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	550	Sq.Ft.		maintain with O&M plan. (7)
125	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
125	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
125	25	Glue - Assumed Behind Visual Display Board	300	Sq.Ft.	North, East, and West Walls	maintain with O&M plan. (7)
125	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At South Wall	maintain with O&M plan. (7)

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125	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
125	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	550	Sq.Ft.		maintain with O&M plan. (7)
125	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
125	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
126	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	550	Sq.Ft.		maintain with O&M plan. (7)
126	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
126	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
126	25	Glue - Assumed Behind Visual Display Board	300	Sq.Ft.	North, East, and West Walls	maintain with O&M plan. (7)
126	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At South Wall	maintain with O&M plan. (7)
126	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
126	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	550	Sq.Ft.		maintain with O&M plan. (7)
126	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
126	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
127	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	750	Sq.Ft.		maintain with O&M plan. (7)
127	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
127	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)

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127	25	Glue - Assumed Behind Visual Display Board	300	Sq.Ft.	North, East, and West Walls	maintain with O&M plan. (7)
127	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At South Wall	maintain with O&M plan. (7)
127	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
127	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	750	Sq.Ft.		maintain with O&M plan. (7)
127	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
127	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
128	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	750	Sq.Ft.		maintain with O&M plan. (7)
128	5	Transite - Siding	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
128	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and West Walls	maintain with O&M plan. (7)
128	25	Glue - Assumed Behind Visual Display Board	300	Sq.Ft.	North, East, and West Walls	maintain with O&M plan. (7)
128	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At South Wall	maintain with O&M plan. (7)
128	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
128	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	750	Sq.Ft.		maintain with O&M plan. (7)
128	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
128	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
129	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	950	Sq.Ft.		maintain with O&M plan. (7)

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129	5	Transite - Siding	10	Sq.Ft.	On Door Frame	maintain with O&M plan. (7)
129	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	950	Sq.Ft.		maintain with O&M plan. (7)
129	23	Ceramic Block & Grout - 18in x 4in Grey	25	Sq.Ft.	As Cove Base on South and East Walls	maintain with O&M plan. (7)
129	25	Glue - Assumed Behind Visual Display Board	160	Sq.Ft.	105 on East Wall 55 on West Wall	maintain with O&M plan. (7)
129	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	130	Sq.Ft.	West, East, and South Walls	maintain with O&M plan. (7)
129	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
129	28	Glazing - On Interior Steel Storefront Frame	1	Sq.Ft.		maintain with O&M plan. (7)
129	40	Caulk - On Interior Steel Storefront Frame	1	Sq.Ft.		maintain with O&M plan. (7)
130	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	600	Sq.Ft.		maintain with O&M plan. (7)
130	5	Transite - Siding	30	Sq.Ft.	East Wall	maintain with O&M plan. (7)
130	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and North Walls	maintain with O&M plan. (7)
130	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	North, South, and West Walls	maintain with O&M plan. (7)
130	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	30	Sq.Ft.	At East Wall	maintain with O&M plan. (7)
130	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
130	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
130	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)

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130	46	Floor Tile & Mastic - 9x9, Light Green w/ Dark Green & Grey Streaks, Black Mastic	600	Sq.Ft.		maintain with O&M plan. (7)
131	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	700	Sq.Ft.		maintain with O&M plan. (7)
131	5	Transite - Siding	30	Sq.Ft.	East Wall	maintain with O&M plan. (7)
131	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and North Walls	maintain with O&M plan. (7)
131	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	North, South, and West Walls	maintain with O&M plan. (7)
131	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	30	Sq.Ft.	At East Wall	maintain with O&M plan. (7)
131	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
131	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
131	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
131	46	Floor Tile & Mastic - 9x9, Light Green w/ Dark Green & Grey Streaks, Black Mastic	700	Sq.Ft.		maintain with O&M plan. (7)
131.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	120	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
131.1	10	Fire Rated Door -	1	Each	Solid Wood, Damaged	remove or repair damage ASAP. (4)
131.1	12	Laboratory Counter Top -	30	Sq.Ft.		maintain with O&M plan. (7)
131.1	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
131.1	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	70	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)
131.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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131.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
131.1	46	Floor Tile & Mastic - 9x9, Light Green w/ Dark Green & Grey Streaks, Black Mastic	120	Sq.Ft.		maintain with O&M plan. (7)
131.2	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	130	Sq.Ft.	Damaged and Missing Tile	remove or repair damage ASAP. (4)
131.2	10	Fire Rated Door -	1	Each	Solid Wood	maintain with O&M plan. (7)
131.2	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.		maintain with O&M plan. (7)
131.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
132	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	770	Sq.Ft.		maintain with O&M plan. (7)
132	5	Transite - Siding	30	Sq.Ft.	East Wall	maintain with O&M plan. (7)
132	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and North Walls	maintain with O&M plan. (7)
132	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	North, South, and West Walls	maintain with O&M plan. (7)
132	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	30	Sq.Ft.	At East Wall	maintain with O&M plan. (7)
132	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
132	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
132	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	Assumed Above Ceiling and at East Wall Sink	maintain with O&M plan. (7)
132	46	Floor Tile & Mastic - 9x9, Light Green w/ Dark Green & Grey Streaks, Black Mastic	770	Sq.Ft.		maintain with O&M plan. (7)
132.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	3x7ft	maintain with O&M plan. (7)

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132.1	46	Floor Tile & Mastic - 9x9, Light Green w/ Dark Green & Grey Streaks, Black Mastic	155	Sq.Ft.		maintain with O&M plan. (7)
132.1	115	Fire Rated Door -	1	Each	Solid Wood	maintain with O&M plan. (7)
133	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	600	Sq.Ft.		maintain with O&M plan. (7)
133	5	Transite - Siding	30	Sq.Ft.	East Wall	maintain with O&M plan. (7)
133	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and North Walls	maintain with O&M plan. (7)
133	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	North, South, and West Walls	maintain with O&M plan. (7)
133	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	30	Sq.Ft.	At East Wall	maintain with O&M plan. (7)
133	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
133	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
133	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
133	46	Floor Tile & Mastic - 9x9, Light Green w/ Dark Green & Grey Streaks, Black Mastic	600	Sq.Ft.		maintain with O&M plan. (7)
134	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	1300	Sq.Ft.		maintain with O&M plan. (7)
134	5	Transite - Siding	30	Sq.Ft.	East Wall	maintain with O&M plan. (7)
134	12	Laboratory Counter Top -	250	Sq.Ft.		maintain with O&M plan. (7)
134	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and North Walls	maintain with O&M plan. (7)
134	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	North, South, and West Walls	maintain with O&M plan. (7)

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Room Number	Material Number	Homogeneous Material Description	Quantity	Units	Comments	Response Action (AHERA Ranking)
134	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	250	Sq.Ft.		maintain with O&M plan. (7)
134	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
134	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
134	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
134	48	Floor Tile & Mastic - 12x12, Greyish Blue w/ Red, Blue, & White Streaks, Black	1300	Sq.Ft.		maintain with O&M plan. (7)
134.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	3x7ft	maintain with O&M plan. (7)
134.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
134.1	48	Floor Tile & Mastic - 12x12, Greyish Blue w/ Red, Blue, & White Streaks, Black	70	Sq.Ft.		maintain with O&M plan. (7)
134.1	117	Wood Door -	1	Sq.Ft.		maintain with O&M plan. (7)
135	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	1100	Sq.Ft.		maintain with O&M plan. (7)
135	5	Transite - Siding	30	Sq.Ft.	East Wall	maintain with O&M plan. (7)
135	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and North Walls	maintain with O&M plan. (7)
135	25	Glue - Assumed Behind Visual Display Board	280	Sq.Ft.	North and South Walls	maintain with O&M plan. (7)
135	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	100	Sq.Ft.	North, South, and East Wall	maintain with O&M plan. (7)
135	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
135	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

LEA: Oscoda Area Schools
Building: Oscoda High School
Building No.: 1
Address: 3550 River Road
Oscoda, MI 48750

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Room Number	Material Number	Homogeneous Material Description	Quantity	Units	Comments	Response Action (AHERA Ranking)
135	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
135	48	Floor Tile & Mastic - 12x12, Greyish Blue w/ Red, Blue, & White Streaks, Black	1100	Sq.Ft.		maintain with O&M plan. (7)
135.1	10	Fire Rated Door - Metal	1	Each	Solid Wood, Very Damaged	evacuate area immediately; remove or repair damage ASAP. (1)
135.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	3x7ft	maintain with O&M plan. (7)
136	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	1600	Sq.Ft.		maintain with O&M plan. (7)
136	5	Transite - Siding	30	Sq.Ft.	East Wall	maintain with O&M plan. (7)
136	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	1600	Sq.Ft.		maintain with O&M plan. (7)
136	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and North Walls	maintain with O&M plan. (7)
136	25	Glue - Assumed Behind Visual Display Board	100	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)
136	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	120	Sq.Ft.	North, South, and East Wall	maintain with O&M plan. (7)
136	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
136	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
136	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
136.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	90	Sq.Ft.		maintain with O&M plan. (7)
136.1	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	90	Sq.Ft.	Tile Mostly Gone, Mastic Remains	maintain with O&M plan. (7)
136.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	3x7ft	maintain with O&M plan. (7)

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Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
136.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
137	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	15	Ln.Ft.		maintain with O&M plan. (7)
137	10	Fire Rated Door -	2	Each	Solid Steel	maintain with O&M plan. (7)
137	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	Door 1	maintain with O&M plan. (7)
137	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
137	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	West Wall Sink and Fountain	maintain with O&M plan. (7)
137	38	Caulk - Expansion Joint, Grey Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
137	50	Flooring Layer Assumed Under Surface Layer -	1000	Sq.Ft.	Assumed Under Rubber Floor	maintain with O&M plan. (7)
137	51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
137.1	27	Wood Door - Solid Wood	1	Sq.Ft.	Damaged to Door	remove or repair damage ASAP. (3)
137.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
138	25	Glue - Assumed Behind Visual Display Board	40	Sq.Ft.	West Wall	maintain with O&M plan. (7)
138	31	Floor Tile & Mastic - 9in x 9in Red with White and Brown Streaks, Black Mastic	230	Sq.Ft.		maintain with O&M plan. (7)
138.1	25	Glue - Assumed Behind Visual Display Board	5	Sq.Ft.	Mirror	maintain with O&M plan. (7)
138.1	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
138.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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138.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	10 Above Ceiling, 10 at Toilet and Urinal 5 at Sink	maintain with O&M plan. (7)
138.2	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
138.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
139	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	40	Ln.Ft.		maintain with O&M plan. (7)
139	8	Fume Hood -	40	Sq.Ft.	Middle of Room	maintain with O&M plan. (7)
139	10	Fire Rated Door -	2	Each	Solid Steel	maintain with O&M plan. (7)
139	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	Door 2	maintain with O&M plan. (7)
139	25	Glue - Assumed Behind Visual Display Board	100	Sq.Ft.		maintain with O&M plan. (7)
139	51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	1	Sq.Ft.	1 Unit. 4ft x 8ft	maintain with O&M plan. (7)
140	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	1400	Sq.Ft.		maintain with O&M plan. (7)
140	5	Transite - Siding	30	Sq.Ft.	West Wall	maintain with O&M plan. (7)
140	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	As Cove Base on East Wall	maintain with O&M plan. (7)
140	25	Glue - Assumed Behind Visual Display Board	150	Sq.Ft.	North, East, and West Walls	maintain with O&M plan. (7)
140	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	350	Sq.Ft.		maintain with O&M plan. (7)
140	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
140	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	1400	Sq.Ft.		maintain with O&M plan. (7)

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140	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
140	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
140	54	Light Backing - Silver	3	Sq.Ft.	Assumed on East Wall	maintain with O&M plan. (7)
140.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	50	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
140.1	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	50	Sq.Ft.		maintain with O&M plan. (7)
140.1	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
140.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
140.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
140.1	54	Light Backing - Silver	1	Sq.Ft.		maintain with O&M plan. (7)
141	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	100	Sq.Ft.		maintain with O&M plan. (7)
141	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	100	Sq.Ft.		maintain with O&M plan. (7)
141	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
141	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
141	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	Above Ceiling and Heater	maintain with O&M plan. (7)
141	55	Caulk - On Interior Steel Sidelight Frame	2	Sq.Ft.		maintain with O&M plan. (7)
141	56	Glazing - On Interior Steel Sidelight Frame	2	Sq.Ft.		maintain with O&M plan. (7)

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141.1	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	50	Ln.Ft.		maintain with O&M plan. (7)
141.1	7	Vibration Dampener Cloth - White	5	Sq.Ft.		maintain with O&M plan. (7)
141.1	10	Fire Rated Door -	1	Each	Solid Wood	maintain with O&M plan. (7)
141.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
142	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	770	Sq.Ft.		maintain with O&M plan. (7)
142	5	Transite - Siding	30	Sq.Ft.	West Wall	maintain with O&M plan. (7)
142	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	770	Sq.Ft.		maintain with O&M plan. (7)
142	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on North and South Walls	maintain with O&M plan. (7)
142	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	North, East, and South Walls	maintain with O&M plan. (7)
142	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	West Wall	maintain with O&M plan. (7)
142	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
142	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
142	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
142	54	Light Backing - Silver	3	Sq.Ft.	Assumed on East Wall	maintain with O&M plan. (7)
142.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	100	Sq.Ft.		maintain with O&M plan. (7)
142.1	5	Transite - Siding	15	Sq.Ft.		maintain with O&M plan. (7)

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142.1	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	100	Sq.Ft.		maintain with O&M plan. (7)
142.1	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
142.1	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
142.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
143	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	770	Sq.Ft.		maintain with O&M plan. (7)
143	5	Transite - Siding	30	Sq.Ft.	West Wall	maintain with O&M plan. (7)
143	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	770	Sq.Ft.		maintain with O&M plan. (7)
143	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and North Walls	maintain with O&M plan. (7)
143	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	North, East, and South Walls	maintain with O&M plan. (7)
143	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At North Wall	maintain with O&M plan. (7)
143	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
143	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
143	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
143	57	Sink Undercoating - Black	1	Sq.Ft.		maintain with O&M plan. (7)
144	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	950	Sq.Ft.		maintain with O&M plan. (7)
144	5	Transite - Siding	30	Sq.Ft.	West Wall	maintain with O&M plan. (7)

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144	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	950	Sq.Ft.		maintain with O&M plan. (7)
144	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base on East, South, and North Walls	maintain with O&M plan. (7)
144	25	Glue - Assumed Behind Visual Display Board	200	Sq.Ft.	North, East, and South Walls	maintain with O&M plan. (7)
144	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	At West Wall	maintain with O&M plan. (7)
144	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
144	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
144	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	Assumed Above Ceiling and at sink	maintain with O&M plan. (7)
144	57	Sink Undercoating - Black	1	Sq.Ft.		maintain with O&M plan. (7)
144.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	275	Sq.Ft.		maintain with O&M plan. (7)
144.1	5	Transite - Siding	15	Sq.Ft.		maintain with O&M plan. (7)
144.1	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	275	Sq.Ft.		maintain with O&M plan. (7)
144.1	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	As Cove Base	maintain with O&M plan. (7)
144.1	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	40	Sq.Ft.	East Wall	maintain with O&M plan. (7)
144.1	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
144.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	Above Ceiling at Sink	maintain with O&M plan. (7)
144.2	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	275	Sq.Ft.		maintain with O&M plan. (7)

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144.2	5	Transite - Siding	15	Sq.Ft.		maintain with O&M plan. (7)
144.2	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	275	Sq.Ft.		maintain with O&M plan. (7)
144.2	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
144.2	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	40	Sq.Ft.	East Wall	maintain with O&M plan. (7)
144.2	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
144.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	Above Ceiling and at Sink	maintain with O&M plan. (7)
145	5	Transite - Siding	25	Sq.Ft.	West Wall	maintain with O&M plan. (7)
145	25	Glue - Assumed Behind Visual Display Board	48	Sq.Ft.	South Wall	maintain with O&M plan. (7)
145	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
145	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
145	50	Flooring Layer Assumed Under Surface Layer -	1150	Sq.Ft.		maintain with O&M plan. (7)
145.1	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
145.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
145.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
145.1	54	Light Backing - Silver	2	Sq.Ft.		maintain with O&M plan. (7)
145.1	60	Floor Tile & Mastic - 12in x 12 in White with Grey and Silver Streaks and Blotches	100	Sq.Ft.		maintain with O&M plan. (7)

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145.2	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	230	Sq.Ft.		maintain with O&M plan. (7)
145.2	27	Wood Door - Solid Wood	1	Sq.Ft.	With 2ft x 3ft Window	maintain with O&M plan. (7)
145.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
145.2	55	Caulk - On Interior Steel Sidelight Frame	1	Sq.Ft.		maintain with O&M plan. (7)
146	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.	2 Units at 7x3ft	maintain with O&M plan. (7)
146	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
146	50	Flooring Layer Assumed Under Surface Layer -	300	Sq.Ft.		maintain with O&M plan. (7)
146	117	Wood Door -	1	Sq.Ft.		maintain with O&M plan. (7)
147	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	75	Sq.Ft.		maintain with O&M plan. (7)
147	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
147	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	North Frame	maintain with O&M plan. (7)
147	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	At Sink	maintain with O&M plan. (7)
147	40	Caulk - On Interior Steel Storefront Frame	2	Sq.Ft.		maintain with O&M plan. (7)
147	63	Caulk - On Interior Steel Window Frame	1	Sq.Ft.		maintain with O&M plan. (7)
147	64	Glazing - On Interior Steel Window Frame	1	Sq.Ft.		maintain with O&M plan. (7)
148	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	East and West Walls	maintain with O&M plan. (7)

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148	27	Wood Door - Solid Wood	2	Sq.Ft.	With 2ft x 3ft Window	maintain with O&M plan. (7)
148	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
148	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
148	63	Caulk - On Interior Steel Window Frame	1	Sq.Ft.		maintain with O&M plan. (7)
148	64	Glazing - On Interior Steel Window Frame	1	Sq.Ft.		maintain with O&M plan. (7)
148.1	10	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
148.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
148.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
148.1	50	Flooring Layer Assumed Under Surface Layer -	150	Sq.Ft.		maintain with O&M plan. (7)
149	10	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
149	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
149	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
149	50	Flooring Layer Assumed Under Surface Layer -	250	Sq.Ft.		maintain with O&M plan. (7)
150	10	Fire Rated Door -	1	Each	Solid Steel	maintain with O&M plan. (7)
150	25	Glue - Assumed Behind Visual Display Board	10	Sq.Ft.	Mirror at West Wall	maintain with O&M plan. (7)
150	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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150	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall	maintain with O&M plan. (7)
150	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	250	Sq.Ft.	Floor and Cove Base	maintain with O&M plan. (7)
151	10	Fire Rated Door -	1	Each	Wood, Solid	maintain with O&M plan. (7)
151	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
152	10	Fire Rated Door -	1	Each	Solid Steel	maintain with O&M plan. (7)
152	25	Glue - Assumed Behind Visual Display Board	10	Sq.Ft.	Mirror at West Wall	maintain with O&M plan. (7)
152	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
152	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall	maintain with O&M plan. (7)
152	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	250	Sq.Ft.	Floor and Cove Base	maintain with O&M plan. (7)
153	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	2500	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
153	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	70	Ln.Ft.	At South Wall Heaters, North Wall Fountain and Heater, and Above Cooking	maintain with O&M plan. (7)
153	50	Flooring Layer Assumed Under Surface Layer -	450	Sq.Ft.	Under Locker Bays	maintain with O&M plan. (7)
153	65	Ceramic Tile & Grout - 2ft x 1ft Grey Sandstone Appearance	144	Sq.Ft.		maintain with O&M plan. (7)
154	23	Ceramic Block & Grout - 18in x 4in Grey	25	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
154	25	Glue - Assumed Behind Visual Display Board	120	Sq.Ft.	West Wall	maintain with O&M plan. (7)
154	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	50	Sq.Ft.	Under West Wall Desks	maintain with O&M plan. (7)

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154	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
154	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
154	63	Caulk - On Interior Steel Window Frame	1	Sq.Ft.	1 Unit 4ft x 8ft	maintain with O&M plan. (7)
154	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	1	Sq.Ft.	South Wall	maintain with O&M plan. (7)
154.1	10	Fire Rated Door -	1	Each	Wood with 1ft x 4ft Window	maintain with O&M plan. (7)
154.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
154.2	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
154.2	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
154.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
154.2	63	Caulk - On Interior Steel Window Frame	1	Sq.Ft.		maintain with O&M plan. (7)
154.2	64	Glazing - On Interior Steel Window Frame	1	Sq.Ft.		maintain with O&M plan. (7)
154.2	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	1	Sq.Ft.		maintain with O&M plan. (7)
154.3	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	40	Sq.Ft.		maintain with O&M plan. (7)
154.3	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
154.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
154.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)

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154.4	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	220	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
154.4	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	As Cove Base Behind Black Base	maintain with O&M plan. (7)
154.4	25	Glue - Assumed Behind Visual Display Board	45	Sq.Ft.	East Wall	maintain with O&M plan. (7)
154.4	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
154.4	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
154.4	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
154.4	50	Flooring Layer Assumed Under Surface Layer -	220	Sq.Ft.		maintain with O&M plan. (7)
155	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	13270	Sq.Ft.	6600 Assumed Above Acoustical Ceiling and Drywall Ceiling	maintain with O&M plan. (7)
155	10	Fire Rated Door -	2	Each	Wood with 1ft x 4ft Window	maintain with O&M plan. (7)
155	23	Ceramic Block & Grout - 18in x 4in Grey	20	Sq.Ft.	Cove Base, Painted Blue	maintain with O&M plan. (7)
155	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
155	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	130	Ln.Ft.	Above Ceiling, at Heaters and Water Fountains on All Walls	maintain with O&M plan. (7)
155	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	15	Sq.Ft.	Throughout Room, Contaminated with Acoustical Ceiling	maintain with O&M plan. (7)
156	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
156	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	Above Ceiling and at Heaters	maintain with O&M plan. (7)
157	10	Fire Rated Door -	1	Each	Solid Steel	maintain with O&M plan. (7)

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157	25	Glue - Assumed Behind Visual Display Board	10	Sq.Ft.	Mirror at West Wall	maintain with O&M plan. (7)
157	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
157	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall	maintain with O&M plan. (7)
157	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	200	Sq.Ft.	Floor and Cove Base	maintain with O&M plan. (7)
158	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	45	Ln.Ft.		maintain with O&M plan. (7)
158	10	Fire Rated Door -	1	Each	Solid Wood	maintain with O&M plan. (7)
158	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	80	Sq.Ft.		maintain with O&M plan. (7)
158	27	Wood Door - Solid Wood	4	Sq.Ft.		maintain with O&M plan. (7)
158	28	Glazing - On Interior Steel Storefront Frame	1	Sq.Ft.		maintain with O&M plan. (7)
158	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
158	40	Caulk - On Interior Steel Storefront Frame	1	Sq.Ft.		maintain with O&M plan. (7)
158	50	Flooring Layer Assumed Under Surface Layer -	1100	Sq.Ft.		maintain with O&M plan. (7)
158.1	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
158.1	5	Transite - Siding	10	Sq.Ft.		maintain with O&M plan. (7)
158.1	25	Glue - Assumed Behind Visual Display Board	20	Sq.Ft.	North Wall	maintain with O&M plan. (7)
158.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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158.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	At Heater	maintain with O&M plan. (7)
158.1	50	Flooring Layer Assumed Under Surface Layer -	125	Sq.Ft.		maintain with O&M plan. (7)
158.1	63	Caulk - On Interior Steel Window Frame	1	Sq.Ft.	1 Unit, 4ft x 8ft	maintain with O&M plan. (7)
158.1	64	Glazing - On Interior Steel Window Frame	1	Sq.Ft.	1 Unit, 4ft x 8ft	maintain with O&M plan. (7)
158.2	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
158.2	5	Transite - Siding	10	Sq.Ft.		maintain with O&M plan. (7)
158.2	25	Glue - Assumed Behind Visual Display Board	20	Sq.Ft.	North Wall	maintain with O&M plan. (7)
158.2	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
158.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
158.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	At Heater	maintain with O&M plan. (7)
158.2	50	Flooring Layer Assumed Under Surface Layer -	200	Sq.Ft.		maintain with O&M plan. (7)
158.2	63	Caulk - On Interior Steel Window Frame	1	Sq.Ft.	1 Unit, 4ft x 8ft	maintain with O&M plan. (7)
158.2	64	Glazing - On Interior Steel Window Frame	1	Sq.Ft.	1 Unit, 4ft x 8ft	maintain with O&M plan. (7)
158.3	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
158.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
158.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	Above Ceiling and At Heater	maintain with O&M plan. (7)

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158.3	50	Flooring Layer Assumed Under Surface Layer -	60	Sq.Ft.		maintain with O&M plan. (7)
158.4	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
158.4	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
158.4	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	Above Ceiling and At Heater	maintain with O&M plan. (7)
158.4	54	Light Backing - Silver	1	Sq.Ft.		maintain with O&M plan. (7)
158.5	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
158.5	5	Transite - Siding	10	Sq.Ft.		maintain with O&M plan. (7)
158.5	25	Glue - Assumed Behind Visual Display Board	20	Sq.Ft.	North Wall	maintain with O&M plan. (7)
158.5	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
158.5	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	At Heater	maintain with O&M plan. (7)
158.5	50	Flooring Layer Assumed Under Surface Layer -	100	Sq.Ft.		maintain with O&M plan. (7)
158.6	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
158.6	25	Glue - Assumed Behind Visual Display Board	20	Sq.Ft.	North Wall	maintain with O&M plan. (7)
158.6	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	At Heater	maintain with O&M plan. (7)
158.6	50	Flooring Layer Assumed Under Surface Layer -	100	Sq.Ft.		maintain with O&M plan. (7)
158.6	55	Caulk - On Interior Steel Sidelight Frame	1	Sq.Ft.		maintain with O&M plan. (7)

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158.6	56	Glazing - On Interior Steel Sidelight Frame	1	Sq.Ft.		maintain with O&M plan. (7)
158.7	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
158.7	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
158.7	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	Above Ceiling and At Heater and Sink	maintain with O&M plan. (7)
158.7	50	Flooring Layer Assumed Under Surface Layer -	170	Sq.Ft.		maintain with O&M plan. (7)
158.8	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	120	Sq.Ft.		maintain with O&M plan. (7)
158.8	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
158.8	71	Miscellaneous - Safe Door	1	Sq.Ft.		maintain with O&M plan. (7)
158.8	72	Miscellaneous - Fire Resistant File Cabinet	1	Sq.Ft.	Inside Safe	maintain with O&M plan. (7)
159	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	700	Sq.Ft.		maintain with O&M plan. (7)
159	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	50	Ln.Ft.	Above Ceiling and at Heater	maintain with O&M plan. (7)
159	73	Ceramic Tile & Grout - 1ft x 1ft Grey with White and Black Spots	700	Sq.Ft.		maintain with O&M plan. (7)
160	27	Wood Door - Solid Wood	3	Sq.Ft.		maintain with O&M plan. (7)
160	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	3	Sq.Ft.		maintain with O&M plan. (7)
160	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	75	Ln.Ft.	25 at Sinks and Heaters Throughout Room and Above Ceiling	maintain with O&M plan. (7)
160	74	Ceramic Tile & Grout - 4in x 4in Green with White Flecks/Spots	1100	Sq.Ft.		maintain with O&M plan. (7)

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160	75	Ceramic Block & Grout - 12in x 4in White	1000	Sq.Ft.		maintain with O&M plan. (7)
160.1	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
160.1	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
160.1	46	Floor Tile & Mastic - 9x9, Light Green w/ Dark Green & Grey Streaks, Black Mastic	70	Sq.Ft.		maintain with O&M plan. (7)
160.1	55	Caulk - On Interior Steel Sidelight Frame	1	Sq.Ft.		maintain with O&M plan. (7)
160.1	56	Glazing - On Interior Steel Sidelight Frame	1	Sq.Ft.		maintain with O&M plan. (7)
160.1	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	1	Sq.Ft.	Assumed at Speaker	maintain with O&M plan. (7)
160.2	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	85	Sq.Ft.		maintain with O&M plan. (7)
160.2	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
160.2	25	Glue - Assumed Behind Visual Display Board	6	Sq.Ft.	At Mirror	maintain with O&M plan. (7)
160.2	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
160.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
160.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	10 Above Ceiling and 5 At Sink	maintain with O&M plan. (7)
160.2	48	Floor Tile & Mastic - 12x12, Greyish Blue w/ Red, Blue, & White Streaks, Black	85	Sq.Ft.		maintain with O&M plan. (7)
160.2	50	Flooring Layer Assumed Under Surface Layer -	85	Sq.Ft.		maintain with O&M plan. (7)
160.3	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)

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160.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
160.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
160.3	54	Light Backing - Silver	1	Sq.Ft.	Damaged	evacuate area immediately; remove or repair damage ASAP. (4)
160.4	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
160.4	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
160.4	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
160.4	46	Floor Tile & Mastic - 9x9, Light Green w/ Dark Green & Grey Streaks, Black Mastic	250	Sq.Ft.		maintain with O&M plan. (7)
160.5	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
160.5	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
160.5	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
160.5	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
160.5	50	Flooring Layer Assumed Under Surface Layer -	165	Sq.Ft.		maintain with O&M plan. (7)
161	10	Fire Rated Door -	1	Each	Solid Steel	maintain with O&M plan. (7)
161	25	Glue - Assumed Behind Visual Display Board	10	Sq.Ft.	Mirror at West Wall	maintain with O&M plan. (7)
161	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
161	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall	maintain with O&M plan. (7)

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161	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	200	Sq.Ft.	Floor and Cove Base	maintain with O&M plan. (7)
162	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	1200	Sq.Ft.	Damaged Debris on Floor	evacuate area immediately; remove or repair damage ASAP. (4)
162	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
162	25	Glue - Assumed Behind Visual Display Board	1500	Sq.Ft.	South, East, and West Walls	maintain with O&M plan. (7)
162	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
162	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	1200	Sq.Ft.	600 Assumed Under Wood Stands	maintain with O&M plan. (7)
162	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
162	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
162	53	Miscellaneous - Tack Board	48	Sq.Ft.	East Wall	maintain with O&M plan. (7)
162	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	1	Sq.Ft.		maintain with O&M plan. (7)
162	76	Tar, Felt & Associated Mastic Layers Under Wood Floor - Wood Stands	600	Sq.Ft.		maintain with O&M plan. (7)
162	78	Cement Board - Green With Holes	1300	Sq.Ft.	North and South Walls	maintain with O&M plan. (7)
163	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	115	Sq.Ft.	Damaged with Floor Debris	evacuate area immediately; remove or repair damage ASAP. (4)
163	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
163	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	115	Sq.Ft.		maintain with O&M plan. (7)
163	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)

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163	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	1	Sq.Ft.	Assumed	maintain with O&M plan. (7)
163.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	50	Sq.Ft.		maintain with O&M plan. (7)
163.1	27	Wood Door - Solid Wood	1	Sq.Ft.	1ft x 1ft Window	maintain with O&M plan. (7)
163.1	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	60	Sq.Ft.		maintain with O&M plan. (7)
163.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
163.1	78	Cement Board - Green With Holes	160	Sq.Ft.	North and East Walls	maintain with O&M plan. (7)
163.2	25	Glue - Assumed Behind Visual Display Board	40	Sq.Ft.		maintain with O&M plan. (7)
163.2	27	Wood Door - Solid Wood	2	Sq.Ft.	1 Wood with 1ft x 1ft Window 1 Steel with 3ft x 3ft Window	maintain with O&M plan. (7)
163.2	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	55	Sq.Ft.		maintain with O&M plan. (7)
163.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
163.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
163.3	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	50	Sq.Ft.		maintain with O&M plan. (7)
163.3	27	Wood Door - Solid Wood	1	Sq.Ft.	1ft x 1ft Window	maintain with O&M plan. (7)
163.3	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	60	Sq.Ft.		maintain with O&M plan. (7)
163.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
163.3	78	Cement Board - Green With Holes	160	Sq.Ft.	North and East Walls	maintain with O&M plan. (7)

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163.4	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	50	Sq.Ft.		maintain with O&M plan. (7)
163.4	27	Wood Door - Solid Wood	1	Sq.Ft.	1ft x 1ft Window	maintain with O&M plan. (7)
163.4	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	60	Sq.Ft.		maintain with O&M plan. (7)
163.4	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
163.4	78	Cement Board - Green With Holes	160	Sq.Ft.	North and East Walls	maintain with O&M plan. (7)
163.5	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	60	Sq.Ft.		maintain with O&M plan. (7)
163.5	27	Wood Door - Solid Wood	1	Sq.Ft.	1ft x 1ft Window	maintain with O&M plan. (7)
163.5	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	60	Sq.Ft.		maintain with O&M plan. (7)
163.5	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
163.5	78	Cement Board - Green With Holes	160	Sq.Ft.	West and South Walls	maintain with O&M plan. (7)
163.6	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	60	Sq.Ft.		maintain with O&M plan. (7)
163.6	27	Wood Door - Solid Wood	1	Sq.Ft.	1ft x 1ft Window	maintain with O&M plan. (7)
163.6	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	60	Sq.Ft.		maintain with O&M plan. (7)
163.6	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
163.6	78	Cement Board - Green With Holes	160	Sq.Ft.	West and South Walls	maintain with O&M plan. (7)
163.7	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	320	Sq.Ft.		maintain with O&M plan. (7)

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163.7	27	Wood Door - Solid Wood	1	Sq.Ft.	1ft x 1ft Window	maintain with O&M plan. (7)
163.7	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	320	Sq.Ft.		maintain with O&M plan. (7)
163.7	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
163.7	78	Cement Board - Green With Holes	300	Sq.Ft.	West and South Walls	maintain with O&M plan. (7)
164	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	1700	Sq.Ft.	Damaged In Area	evacuate area immediately; remove or repair damage ASAP. (4)
164	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
164	25	Glue - Assumed Behind Visual Display Board	1500	Sq.Ft.	South, East, and West Walls	maintain with O&M plan. (7)
164	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
164	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	1700	Sq.Ft.		maintain with O&M plan. (7)
164	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
164	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
164	53	Miscellaneous - Tack Board	48	Sq.Ft.	East Wall	maintain with O&M plan. (7)
164	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	1	Sq.Ft.		maintain with O&M plan. (7)
164	78	Cement Board - Green With Holes	1300	Sq.Ft.	North and South Walls	maintain with O&M plan. (7)
164.1	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	250	Sq.Ft.		maintain with O&M plan. (7)
164.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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165	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	100	Ln.Ft.		maintain with O&M plan. (7)
165	2	Duct Work Insulation - Jacket Insulation	200	Sq.Ft.		maintain with O&M plan. (7)
165	7	Vibration Dampener Cloth - White	5	Sq.Ft.		maintain with O&M plan. (7)
165	10	Fire Rated Door -	1	Each	Steel	maintain with O&M plan. (7)
165	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
165	43	Caulk - Brown, Brittle, Duct Work Caulk	200	Sq.Ft.	Assumed At Joints	maintain with O&M plan. (7)
165	44	Miscellaneous - Assumed Water Gaskets	50	Sq.Ft.		maintain with O&M plan. (7)
165.1	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	3	Ln.Ft.		maintain with O&M plan. (7)
165.1	44	Miscellaneous - Assumed Water Gaskets	1	Sq.Ft.		maintain with O&M plan. (7)
165.1	45	Miscellaneous - Black Tar on Tunnel Wall	150	Sq.Ft.		maintain with O&M plan. (7)
166	27	Wood Door - Solid Wood	1	Sq.Ft.	With 3ft x 4ft Window	maintain with O&M plan. (7)
166	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
166	50	Flooring Layer Assumed Under Surface Layer -	130	Sq.Ft.	Flooring Found	maintain with O&M plan. (7)
166.1	27	Wood Door - Solid Wood	1	Sq.Ft.	With 3ft x 4ft Window	maintain with O&M plan. (7)
166.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
166.1	50	Flooring Layer Assumed Under Surface Layer -	130	Sq.Ft.	Flooring Found	maintain with O&M plan. (7)

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166.2	10	Fire Rated Door -	1	Each	Solid Wood, Damaged	remove or repair damage ASAP. (4)
166.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
166.2	48	Floor Tile & Mastic - 12x12, Greyish Blue w/ Red, Blue, & White Streaks, Black	80	Sq.Ft.		maintain with O&M plan. (7)
166.2	50	Flooring Layer Assumed Under Surface Layer -	80	Sq.Ft.		maintain with O&M plan. (7)
166.2	72	Miscellaneous - Fire Resistant File Cabinet	1	Sq.Ft.	Grey Hamilton	maintain with O&M plan. (7)
166.3	27	Wood Door - Solid Wood	1	Sq.Ft.	With 3ft x 4ft Window	maintain with O&M plan. (7)
166.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
166.3	50	Flooring Layer Assumed Under Surface Layer -	130	Sq.Ft.	Flooring Found	maintain with O&M plan. (7)
167	10	Fire Rated Door -	2	Each	Solid Wood	maintain with O&M plan. (7)
167	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	Doors 8 & 9. Door 9 has caulk that is breaking and falling off. Door 8 Abated	remove or repair damage ASAP. (4)
167	27	Wood Door - Solid Wood	2	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
167	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
167	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	1	Sq.Ft.		maintain with O&M plan. (7)
167	81	Tar, Felt & Associated Mastic Layers Under Wood Floor -	3000	Sq.Ft.	Stage	maintain with O&M plan. (7)
168	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	2000	Sq.Ft.		maintain with O&M plan. (7)
168	27	Wood Door - Solid Wood	4	Sq.Ft.		maintain with O&M plan. (7)

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168	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	4	Sq.Ft.		maintain with O&M plan. (7)
168	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	50	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
168	50	Flooring Layer Assumed Under Surface Layer -	1700	Sq.Ft.		maintain with O&M plan. (7)
168	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	35	Sq.Ft.	Assumed in Ceiling Light Wells	maintain with O&M plan. (7)
169	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	100	Sq.Ft.		maintain with O&M plan. (7)
169	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
169	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
169	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
169	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
169	50	Flooring Layer Assumed Under Surface Layer -	100	Sq.Ft.		maintain with O&M plan. (7)
169.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	40	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
169.1	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
169.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
169.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	10 Above Ceiling, 5 at Toilet, 5 at Sink	maintain with O&M plan. (7)
169.1	54	Light Backing - Silver	1	Sq.Ft.		maintain with O&M plan. (7)
170	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	100	Sq.Ft.		maintain with O&M plan. (7)

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170	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
170	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
170	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
170	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
170	50	Flooring Layer Assumed Under Surface Layer -	100	Sq.Ft.		maintain with O&M plan. (7)
170.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	40	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
170.1	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
170.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
170.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	10 Above Ceiling, 5 at Toilet, 5 at Sink	maintain with O&M plan. (7)
170.1	54	Light Backing - Silver	1	Sq.Ft.		maintain with O&M plan. (7)
171	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	3	Ln.Ft.		maintain with O&M plan. (7)
171	3	Pipe Insulation - Roof Drain	1	Ln.Ft.		maintain with O&M plan. (7)
171	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
171	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
171	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	At Sink	maintain with O&M plan. (7)
172	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	8	Ln.Ft.		maintain with O&M plan. (7)

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172	10	Fire Rated Door -	1	Each	Damaged, Door is Cracked	remove or repair damage ASAP. (4)
172	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
172	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
173	10	Fire Rated Door -	2	Each	Solid Steel, One Damaged	remove or repair damage ASAP. (4)
173	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
173	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
173	53	Miscellaneous - Tack Board	60	Sq.Ft.	South and North Wall	maintain with O&M plan. (7)
173.1	25	Glue - Assumed Behind Visual Display Board	120	Sq.Ft.	North and East Walls	maintain with O&M plan. (7)
173.2	25	Glue - Assumed Behind Visual Display Board	6	Sq.Ft.	At Mirror	maintain with O&M plan. (7)
173.2	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
173.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
173.2	32	Ceramic Tile - 4in x 4in White	50	Sq.Ft.	Painted Blue	maintain with O&M plan. (7)
173.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	20	Ln.Ft.	10 at Sink, Toilet, and Heater and 10 Above Ceiling	maintain with O&M plan. (7)
173.2	87	Ceramic Tile & Grout - 1in x 1in Light Brown	10	Sq.Ft.		maintain with O&M plan. (7)
173.3	27	Wood Door - Solid Wood	2	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
173.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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173.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
174	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	1600	Sq.Ft.	Above Tile	maintain with O&M plan. (7)
174	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	70	Ln.Ft.	At Heaters, Fountain and Above Ceiling	maintain with O&M plan. (7)
174	50	Flooring Layer Assumed Under Surface Layer -	450	Sq.Ft.	Under Locker Bays	maintain with O&M plan. (7)
174	65	Ceramic Tile & Grout - 2ft x 1ft Grey Sandstone Appearance	72	Sq.Ft.	Two Benches	maintain with O&M plan. (7)
175	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
175	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
175	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
175	53	Miscellaneous - Tack Board	25	Sq.Ft.	East Wall	maintain with O&M plan. (7)
175.1	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	100	Sq.Ft.		maintain with O&M plan. (7)
175.1	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
175.1	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
175.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
175.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	At Sink and Above Ceiling	maintain with O&M plan. (7)
175.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	At Toilet and Above Ceiling	maintain with O&M plan. (7)
175.2	87	Ceramic Tile & Grout - 1in x 1in Light Brown	40	Sq.Ft.		maintain with O&M plan. (7)

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175.3	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
175.3	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	80	Sq.Ft.		maintain with O&M plan. (7)
175.3	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
175.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
175.4	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
175.4	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
175.4	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	5 At Sink and 5 Above Ceiling	maintain with O&M plan. (7)
175.4	54	Light Backing - Silver	1	Sq.Ft.	Damaged	remove or repair damage ASAP. (4)
175.5	32	Ceramic Tile - 4in x 4in White	800	Sq.Ft.		maintain with O&M plan. (7)
175.5	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	100	Ln.Ft.	50 Above Ceilings and At Showers, Sinks, and Toilets	maintain with O&M plan. (7)
175.5	89	Ceramic Tile & Grout - 1in x 1in Green and Teal with White Spots	535	Sq.Ft.		maintain with O&M plan. (7)
175.6	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	25	Ln.Ft.	10 Above Ceiling and 15 at Sinks and Toilets	maintain with O&M plan. (7)
175.6	75	Ceramic Block & Grout - 12in x 4in White	100	Sq.Ft.	Walls	maintain with O&M plan. (7)
175.6	87	Ceramic Tile & Grout - 1in x 1in Light Brown	60	Sq.Ft.		maintain with O&M plan. (7)
175.7	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
175.7	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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175.7	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
175.7	54	Light Backing - Silver	1	Sq.Ft.	Damaged	remove or repair damage ASAP. (4)
175.7	73	Ceramic Tile & Grout - 1ft x 1ft Grey with White and Black Spots	100	Sq.Ft.	Floor	maintain with O&M plan. (7)
175.8	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
175.8	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
175.8	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
175.8	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
175.8	54	Light Backing - Silver	1	Sq.Ft.		maintain with O&M plan. (7)
176	23	Ceramic Block & Grout - 18in x 4in Grey	15	Sq.Ft.	Cove Base and Below Lockers	maintain with O&M plan. (7)
176	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
176	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
176	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
176	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
176.01	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	100	Sq.Ft.		maintain with O&M plan. (7)
176.01	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
176.01	25	Glue - Assumed Behind Visual Display Board	10	Sq.Ft.	South Wall.	maintain with O&M plan. (7)

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176.01	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
176.01	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
176.01	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	5 At South Sink and 5 Above ceiling	maintain with O&M plan. (7)
176.02	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
176.02	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
176.02	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
176.02	32	Ceramic Tile - 4in x 4in White	80	Sq.Ft.	At Shower	maintain with O&M plan. (7)
176.02	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	5 Above Ceiling 5 At West Toilet and 5 at East Shower	maintain with O&M plan. (7)
176.02	54	Light Backing - Silver	1	Sq.Ft.		maintain with O&M plan. (7)
176.03	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	2	Ln.Ft.	Above Plaster Ceiling	maintain with O&M plan. (7)
176.03	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
176.03	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
176.04	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	20 At East Wall 10 At West Wall and 10 Above Ceiling	maintain with O&M plan. (7)
176.04	75	Ceramic Block & Grout - 12in x 4in White	170	Sq.Ft.	Walls	maintain with O&M plan. (7)
176.05	32	Ceramic Tile - 4in x 4in White	300	Sq.Ft.	Walls	maintain with O&M plan. (7)
176.05	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	30	Ln.Ft.	10 At South Wall 10 At North Wall and 10 Above Ceiling	maintain with O&M plan. (7)

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176.05	87	Ceramic Tile & Grout - 1in x 1in Light Brown	175	Sq.Ft.	Floor	maintain with O&M plan. (7)
176.06	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
176.06	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	50	Sq.Ft.		maintain with O&M plan. (7)
176.06	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
176.06	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
176.06	54	Light Backing - Silver	1	Sq.Ft.		maintain with O&M plan. (7)
176.07	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
176.07	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
176.07	73	Ceramic Tile & Grout - 1ft x 1ft Grey with White and Black Spots	100	Sq.Ft.	Floor	maintain with O&M plan. (7)
176.08	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	3	Ln.Ft.	Damaged	remove or repair damage ASAP. (4)
176.08	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
176.08	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
176.08	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	At Sink and Above Ceiling	maintain with O&M plan. (7)
176.08	54	Light Backing - Silver	1	Sq.Ft.		maintain with O&M plan. (7)
176.09	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	150	Sq.Ft.		maintain with O&M plan. (7)
176.09	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)

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176.09	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
176.09	55	Caulk - On Interior Steel Sidelight Frame	1	Sq.Ft.		maintain with O&M plan. (7)
176.09	56	Glazing - On Interior Steel Sidelight Frame	1	Sq.Ft.		maintain with O&M plan. (7)
176.09	132	Ceramic Tile & Grout - 12in x 12in Tan	150	Sq.Ft.	Floor	maintain with O&M plan. (7)
176.10	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	5 At North Shower 5 At South Sink and 5 Above Ceiling	maintain with O&M plan. (7)
176.10	54	Light Backing - Silver	1	Sq.Ft.	Damaged	remove or repair damage ASAP. (4)
176.11	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
176.11	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
176.11	133	Ceramic Tile & Grout - 1in x 1in Light Blue	175	Sq.Ft.	Floor	maintain with O&M plan. (7)
176.12	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
176.12	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
176.12	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
176.12	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	5 At E Sink 5 Above Ceiling	maintain with O&M plan. (7)
176.13	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
176.13	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
176.13	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)

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176.13	133	Ceramic Tile & Grout - 1in x 1in Light Blue	50	Sq.Ft.	Floor	maintain with O&M plan. (7)
177	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	75	Sq.Ft.		maintain with O&M plan. (7)
177	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
177	27	Wood Door - Solid Wood	1	Sq.Ft.		maintain with O&M plan. (7)
177	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
177	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
177	54	Light Backing - Silver	1	Sq.Ft.		maintain with O&M plan. (7)
178	27	Wood Door - Solid Wood	8	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
178	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	4	Sq.Ft.		maintain with O&M plan. (7)
178	38	Caulk - Expansion Joint, Grey Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
178	81	Tar, Felt & Associated Mastic Layers Under Wood Floor -	10500	Sq.Ft.	Includes Floor Under Bleachers	maintain with O&M plan. (7)
178.1	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	120	Sq.Ft.		maintain with O&M plan. (7)
178.1	26	Floor Tile & Mastic - Assumed Under Cabinets and Heaters	25	Sq.Ft.		maintain with O&M plan. (7)
178.1	27	Wood Door - Solid Wood	2	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
178.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
178.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)

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179	10	Fire Rated Door -	1	Each	Solid Steel	maintain with O&M plan. (7)
179	25	Glue - Assumed Behind Visual Display Board	10	Sq.Ft.	Mirror at West Wall	maintain with O&M plan. (7)
179	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
179	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall	maintain with O&M plan. (7)
179	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	200	Sq.Ft.	Floor and Cove Base	maintain with O&M plan. (7)
180	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	3x7ft	maintain with O&M plan. (7)
180	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
181	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	10	Ln.Ft.	1 Damaged	remove or repair damage ASAP. (4)
181	10	Fire Rated Door -	1	Each	Solid Steel	maintain with O&M plan. (7)
181	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
182	6	Floor Tile & Mastic - 9in x 9in Green with White Streaks, Black Mastic	100	Sq.Ft.		maintain with O&M plan. (7)
182	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	3x7ft	maintain with O&M plan. (7)
182	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.		maintain with O&M plan. (7)
183	10	Fire Rated Door -	1	Each	Solid Steel	maintain with O&M plan. (7)
183	25	Glue - Assumed Behind Visual Display Board	10	Sq.Ft.	Mirror at West Wall	maintain with O&M plan. (7)
183	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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183	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	25 for Toilets at East Wall 15 at Sink at West Wall	maintain with O&M plan. (7)
183	36	Ceramic Tile & Grout - 2ft x 1 ft Grey	200	Sq.Ft.	Floor and Cove Base	maintain with O&M plan. (7)
184	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	4x7ft	maintain with O&M plan. (7)
184	44	Miscellaneous - Assumed Water Gaskets	25	Sq.Ft.		maintain with O&M plan. (7)
184	117	Wood Door -	1	Sq.Ft.	Solid	maintain with O&M plan. (7)
185	10	Fire Rated Door -	1	Each	Steel with 6in x 2ft Window	maintain with O&M plan. (7)
185	25	Glue - Assumed Behind Visual Display Board	256	Sq.Ft.	64 On Each Wall	maintain with O&M plan. (7)
185	27	Wood Door - Solid Wood	1	Sq.Ft.	Solid Aluminum	maintain with O&M plan. (7)
185	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
185	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	1	Sq.Ft.		maintain with O&M plan. (7)
185	75	Ceramic Block & Grout - 12in x 4in White	7500	Sq.Ft.	Walls	maintain with O&M plan. (7)
185	89	Ceramic Tile & Grout - 1in x 1in Green and Teal with White Spots	8500	Sq.Ft.	Walls, Floor, and Pool	maintain with O&M plan. (7)
185	92	Caulk - On Interior Aluminum Door Frame, Hard, Grey	1	Sq.Ft.		maintain with O&M plan. (7)
185.1	23	Ceramic Block & Grout - 18in x 4in Grey	5	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
185.1	27	Wood Door - Solid Wood	1	Sq.Ft.	Solid Aluminum	maintain with O&M plan. (7)
185.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	5 Above Ceiling and 5 At Heater	maintain with O&M plan. (7)

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185.1	46	Floor Tile & Mastic - 9x9, Light Green w/ Dark Green & Grey Streaks, Black Mastic	100	Sq.Ft.		maintain with O&M plan. (7)
185.1	92	Caulk - On Interior Aluminum Door Frame, Hard, Grey	1	Sq.Ft.		maintain with O&M plan. (7)
185.2	32	Ceramic Tile - 4in x 4in White	350	Sq.Ft.	Walls	maintain with O&M plan. (7)
185.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	100	Ln.Ft.	90 Showers On All Walls and 10 Above Ceiling	maintain with O&M plan. (7)
185.2	87	Ceramic Tile & Grout - 1in x 1in Light Brown	150	Sq.Ft.	Floor	maintain with O&M plan. (7)
185.3	32	Ceramic Tile - 4in x 4in White	350	Sq.Ft.	Walls	maintain with O&M plan. (7)
185.3	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	100	Ln.Ft.	90 At Showers On All Walls and 10 Above Ceiling	maintain with O&M plan. (7)
185.3	87	Ceramic Tile & Grout - 1in x 1in Light Brown	150	Sq.Ft.	Floor	maintain with O&M plan. (7)
186	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	3000	Sq.Ft.	Above Ceiling	maintain with O&M plan. (7)
186	27	Wood Door - Solid Wood	4	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
186	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	3000	Sq.Ft.		maintain with O&M plan. (7)
186	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
186	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
186.1	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	1	Ln.Ft.		maintain with O&M plan. (7)
186.1	27	Wood Door - Solid Wood	2	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
186.1	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)

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186.1	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
186.1	54	Light Backing - Silver	2	Sq.Ft.		maintain with O&M plan. (7)
186.2	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	1	Ln.Ft.		maintain with O&M plan. (7)
186.2	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	190	Sq.Ft.	Ceiling	maintain with O&M plan. (7)
186.2	27	Wood Door - Solid Wood	2	Sq.Ft.		maintain with O&M plan. (7)
186.2	29	Floor Tile & Mastic - 9in x 9in Tan with Brown and White Streaks, Black Mastic	190	Sq.Ft.		maintain with O&M plan. (7)
186.2	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
186.2	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
186.2	54	Light Backing - Silver	2	Sq.Ft.		maintain with O&M plan. (7)
186.2	63	Caulk - On Interior Steel Window Frame	1	Sq.Ft.	1 Unit 4ft x 11ft	maintain with O&M plan. (7)
186.2	64	Glazing - On Interior Steel Window Frame	1	Sq.Ft.	1 Unit, 4ft x 11ft	maintain with O&M plan. (7)
187	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	130	Ln.Ft.	A Couple Damaged	remove or repair damage ASAP. (4)
187	2	Duct Work Insulation - Jacket Insulation	1200	Sq.Ft.	Damaged	remove or repair damage ASAP. (4)
187	10	Fire Rated Door -	2	Each	Solid Steel, Damaged	remove or repair damage ASAP. (4)
187	27	Wood Door - Solid Wood	1	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
187	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)

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187	38	Caulk - Expansion Joint, Grey Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
187	44	Miscellaneous - Assumed Water Gaskets	30	Sq.Ft.		maintain with O&M plan. (7)
188	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	400	Ln.Ft.	Vary in Size	maintain with O&M plan. (7)
188	9	Fire Brick -	30	Sq.Ft.	North Wall at Ductwork	maintain with O&M plan. (7)
188	10	Fire Rated Door -	3	Each	Assumed Due to Poor Exterior Condition	remove or repair damage ASAP. (4)
188	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
188	41	Tank Insulation - White	508	Sq.Ft.	1-5ft x 8ft x 5ft, 1-5ft x 10ft x 5ft, 1-2ft x 5ft x 2ft, Damaged	remove or repair damage ASAP. (4)
188	44	Miscellaneous - Assumed Water Gaskets	100	Sq.Ft.		maintain with O&M plan. (7)
188	51	Caulk - On Exterior Aluminum Window Frame, Grey, Brittle	1	Sq.Ft.	1 Unit 16ft x 12ft	maintain with O&M plan. (7)
188	95	Miscellaneous - Rope Gasket - Hurst Boiler	4	Sq.Ft.	Two on Each Side of Two Hurst Boilers	maintain with O&M plan. (7)
188	96	Boiler Material (inside) - 2009 Hurst Boilers, 5ft x 10ft x 5ft.	500	Sq.Ft.	2 Units	maintain with O&M plan. (7)
188	97	Boiler Material (inside) - Steam-Pak 1960, 6ft x 18ft x 6ft	504	Sq.Ft.	1 Unit	maintain with O&M plan. (7)
188	101	Miscellaneous - Fire Hose	5	Sq.Ft.	Individual Hoses. Varying diameter	maintain with O&M plan. (7)
188	102	Miscellaneous - Rope Gasket, Spools	2	Sq.Ft.		maintain with O&M plan. (7)
188	103	Glazing - On Exterior Aluminum Window Frame	1	Sq.Ft.	1 Unit 16ft x 12ft	maintain with O&M plan. (7)
189	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	80	Ln.Ft.		maintain with O&M plan. (7)

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189	10	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
189	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
190	109	Floor Tile & Mastic - Assumed Under Cabinets	100	Sq.Ft.	North, South, and West Walls	maintain with O&M plan. (7)
190	110	Ceramic Tile & Grout - 4in x 6in Grey with Black Dots	5	Sq.Ft.	Window Sill	maintain with O&M plan. (7)
190	111	Laboratory Counter Top - Black	115	Sq.Ft.		maintain with O&M plan. (7)
190	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	At Sinks	maintain with O&M plan. (7)
190	113	Glue - Assumed Behind Visual Display Board	96	Sq.Ft.	North Wall	maintain with O&M plan. (7)
190	115	Fire Rated Door -	1	Each	Wood with 4in x 2ft Window	maintain with O&M plan. (7)
190	117	Wood Door -	1	Sq.Ft.	Steel with 2ft x 4ft Window	maintain with O&M plan. (7)
190.1	115	Fire Rated Door -	1	Each	Wood with 2ft x 4ft Window	maintain with O&M plan. (7)
191	115	Fire Rated Door -	1	Each	Solid Wood	maintain with O&M plan. (7)
192	113	Glue - Assumed Behind Visual Display Board	96	Sq.Ft.	West Wall	maintain with O&M plan. (7)
192	115	Fire Rated Door -	1	Each	Wood with 4in x 2ft Window	maintain with O&M plan. (7)
192	117	Wood Door -	1	Sq.Ft.	Steel with 2ft x 4ft Window	maintain with O&M plan. (7)
193	115	Fire Rated Door -	1	Each	Solid Wood	maintain with O&M plan. (7)
194	109	Floor Tile & Mastic - Assumed Under Cabinets	100	Sq.Ft.	North, South, and West Walls	maintain with O&M plan. (7)

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194	110	Ceramic Tile & Grout - 4in x 6in Grey with Black Dots	5	Sq.Ft.	Window Sill	maintain with O&M plan. (7)
194	111	Laboratory Counter Top - Black	115	Sq.Ft.		maintain with O&M plan. (7)
194	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	40	Ln.Ft.	At Sinks	maintain with O&M plan. (7)
194	113	Glue - Assumed Behind Visual Display Board	96	Sq.Ft.	North Wall	maintain with O&M plan. (7)
194	115	Fire Rated Door -	1	Each	Wood with 4in x 2ft Window	maintain with O&M plan. (7)
194	117	Wood Door -	1	Sq.Ft.	Steel with 2ft x 4ft Window	maintain with O&M plan. (7)
194.1	109	Floor Tile & Mastic - Assumed Under Cabinets	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
194.1	115	Fire Rated Door -	1	Each	Solid Wood	maintain with O&M plan. (7)
194.2	109	Floor Tile & Mastic - Assumed Under Cabinets	50	Sq.Ft.		maintain with O&M plan. (7)
194.2	110	Ceramic Tile & Grout - 4in x 6in Grey with Black Dots	20	Sq.Ft.	Window Sills	maintain with O&M plan. (7)
194.2	115	Fire Rated Door -	1	Each	Wood with 2ft x 4ft Window	maintain with O&M plan. (7)
194.2	117	Wood Door -	1	Sq.Ft.	Steel with 2ft x 4ft Window	maintain with O&M plan. (7)
195	113	Glue - Assumed Behind Visual Display Board	400	Sq.Ft.	North and Walls	maintain with O&M plan. (7)
195	117	Wood Door -	6	Sq.Ft.	Steel with 2ft x 4ft Windows	maintain with O&M plan. (7)
195	123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	2500	Sq.Ft.		maintain with O&M plan. (7)
196	117	Wood Door -	1	Sq.Ft.		maintain with O&M plan. (7)

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197	115	Fire Rated Door -	1	Each	Solid Wood	maintain with O&M plan. (7)
198	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	60	Ln.Ft.	At Showers, Sinks and Toilets	maintain with O&M plan. (7)
198	117	Wood Door -	2	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
198	123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	800	Sq.Ft.		maintain with O&M plan. (7)
198	128	Ceramic Tile & Grout - 2in x 2in Tan	150	Sq.Ft.		maintain with O&M plan. (7)
199	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	60	Ln.Ft.	At Showers, Sinks and Toilets	maintain with O&M plan. (7)
199	117	Wood Door -	2	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
199	123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	800	Sq.Ft.		maintain with O&M plan. (7)
199	128	Ceramic Tile & Grout - 2in x 2in Tan	150	Sq.Ft.		maintain with O&M plan. (7)
200	117	Wood Door -	1	Sq.Ft.	Steel with 2ft x 4ft Window	maintain with O&M plan. (7)
200	123	Ceramic Tile & Grout - 9in x 9in Grey with Dark Grey Dots	410	Sq.Ft.	Floor and Cove Base	maintain with O&M plan. (7)
201	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	At Sink	maintain with O&M plan. (7)
201	115	Fire Rated Door -	1	Each	Solid Steel	maintain with O&M plan. (7)
202	112	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	At Sink	maintain with O&M plan. (7)
202	115	Fire Rated Door -	1	Each	Solid Steel	maintain with O&M plan. (7)
Exterior - Orig. Build	5	Transite - Siding	1	Sq.Ft.		maintain with O&M plan. (7)

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Exterior - Orig. Build	105	Caulk - Exterior Louver	1	Sq.Ft.		maintain with O&M plan. (7)
Exterior - Orig. Build	106	Texture - On Exterior Transite Panels	2000	Sq.Ft.		maintain with O&M plan. (7)
Hall 101	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	3800	Sq.Ft.	Assumed Above Drywall Ceiling	maintain with O&M plan. (7)
Hall 101	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	2	Sq.Ft.	Doors 24 and 25	maintain with O&M plan. (7)
Hall 101	17	Glazing - Door With Dual 2ft x 4ft Windows	1	Sq.Ft.	4 Units, Doors Labeled 24 and 25	maintain with O&M plan. (7)
Hall 101	23	Ceramic Block & Grout - 18in x 4in Grey	30	Sq.Ft.	Painted Blue, Used as Cove Base on North Wall	maintain with O&M plan. (7)
Hall 101	25	Glue - Assumed Behind Visual Display Board	60	Sq.Ft.	North Wall	maintain with O&M plan. (7)
Hall 101	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	25	Ln.Ft.	South Wall Heaters	maintain with O&M plan. (7)
Hall 102	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	50	Ln.Ft.	Above Ceiling, Vary in Size	maintain with O&M plan. (7)
Hall 102	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	600	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
Hall 103	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	3800	Sq.Ft.	Assumed Above Drywall Ceiling	maintain with O&M plan. (7)
Hall 103	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	2	Sq.Ft.	Doors 22 and 23	maintain with O&M plan. (7)
Hall 103	17	Glazing - Door With Dual 2ft x 4ft Windows	1	Sq.Ft.	4 Units, Doors Labeled 22 and 23	maintain with O&M plan. (7)
Hall 103	23	Ceramic Block & Grout - 18in x 4in Grey	30	Sq.Ft.	Painted Blue, Used as Cove Base on South Wall	maintain with O&M plan. (7)
Hall 103	25	Glue - Assumed Behind Visual Display Board	60	Sq.Ft.	North Wall	maintain with O&M plan. (7)
Hall 103	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	35	Ln.Ft.	North Wall Heaters and Water Fountains	maintain with O&M plan. (7)

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Hall 104	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	2700	Sq.Ft.	Assumed Above Drywall Ceiling	maintain with O&M plan. (7)
Hall 104	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	Door 26	maintain with O&M plan. (7)
Hall 104	17	Glazing - Door With Dual 2ft x 4ft Windows	1	Sq.Ft.	2 Units, Door Labeled 26	maintain with O&M plan. (7)
Hall 104	19	Glazing - On Door with 2ft x 5ft Window	0	Sq.Ft.	Door 31, Abated April 2023	()
Hall 104	20	Caulk - On Exterior Steel Transom, Grey, Brittle	0	Sq.Ft.	Door 31, Abated April 2023	()
Hall 104	23	Ceramic Block & Grout - 18in x 4in Grey	30	Sq.Ft.	Painted Blue, Used as Cove Base on East Wall	maintain with O&M plan. (7)
Hall 104	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	100	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
Hall 104	38	Caulk - Expansion Joint, Grey Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
Hall 105	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	720	Sq.Ft.	Assumed Above Drywall Ceiling	maintain with O&M plan. (7)
Hall 105	25	Glue - Assumed Behind Visual Display Board	48	Sq.Ft.	East Wall	maintain with O&M plan. (7)
Hall 105	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	East Wall Heater and Above Ceiling	maintain with O&M plan. (7)
Hall 105	53	Miscellaneous - Tack Board	48	Sq.Ft.		maintain with O&M plan. (7)
Hall 106	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	2500	Sq.Ft.	Assumed Above Drywall Ceiling	maintain with O&M plan. (7)
Hall 106	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	1	Sq.Ft.	Door 4	maintain with O&M plan. (7)
Hall 106	17	Glazing - Door With Dual 2ft x 4ft Windows	1	Sq.Ft.	2 Units, Door 4	maintain with O&M plan. (7)
Hall 106	23	Ceramic Block & Grout - 18in x 4in Grey	30	Sq.Ft.	Painted Blue, Used as Cove Base on North Wall	maintain with O&M plan. (7)

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Hall 106	25	Glue - Assumed Behind Visual Display Board	60	Sq.Ft.	South Wall	maintain with O&M plan. (7)
Hall 106	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	125	Ln.Ft.	South Wall Heaters and Above Ceiling	maintain with O&M plan. (7)
Hall 107	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	1500	Sq.Ft.	Assumed Above Drywall	maintain with O&M plan. (7)
Hall 107	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	50	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
Hall 107	38	Caulk - Expansion Joint, Grey Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
Hall 108	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	500	Sq.Ft.		maintain with O&M plan. (7)
Hall 108	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	0	Sq.Ft.	Door 11, Abated April 2023	()
Hall 108	15	Glazing - On Exterior Steel Sidelight, Grey, Brittle	0	Sq.Ft.	Door 11, Abated April 2023	()
Hall 108	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	75	Ln.Ft.	25 at Heaters 50 Above Ceiling	maintain with O&M plan. (7)
Hall 108	38	Caulk - Expansion Joint, Grey Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
Hall 109	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	500	Sq.Ft.		maintain with O&M plan. (7)
Hall 109	13	Caulk - On Exterior Steel Door Frame, Grey, Brittle	0	Sq.Ft.	Door 6, Abated April 2023	()
Hall 109	17	Glazing - Door With Dual 2ft x 4ft Windows	0	Sq.Ft.	Door 6, Abated April 2023	()
Hall 109	23	Ceramic Block & Grout - 18in x 4in Grey	15	Sq.Ft.	As Cove Base	maintain with O&M plan. (7)
Hall 109	67	Miscellaneous - Tar, Black, Clock/Speaker Backing	12	Sq.Ft.	Contaminated with Acoustical Ceiling	maintain with O&M plan. (7)
Hall 109	85	Caulk - On Exterior Aluminum Storefront Frame	2	Sq.Ft.	One frame has old caulk present under new caulk. Door 7	maintain with O&M plan. (7)

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Hall 109	86	Glazing - On Exterior Aluminum Storefront Frame	1	Sq.Ft.	Door 7	maintain with O&M plan. (7)
Hall 110	4	Glued on Ceiling Tile - 1ft x 1ft White with Varying Size Pinholes	800	Sq.Ft.	Assumed Above Tile	maintain with O&M plan. (7)
Hall 110	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	50	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
Hall 110	38	Caulk - Expansion Joint, Grey Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
Hall 111	27	Wood Door - Solid Wood	4	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
Hall 111	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	2	Sq.Ft.		maintain with O&M plan. (7)
Hall 111	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	70	Ln.Ft.	20 At Heaters and 50 Above Ceiling	maintain with O&M plan. (7)
Hall 112	27	Wood Door - Solid Wood	2	Sq.Ft.	Solid Steel	maintain with O&M plan. (7)
Hall 112	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
Hall 112	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	50	Ln.Ft.	10 at North Wall Fountains and 40 Above Ceiling	maintain with O&M plan. (7)
Hall 113	5	Transite - Siding	50	Sq.Ft.	Door 12 Window Blanks	maintain with O&M plan. (7)
Hall 113	23	Ceramic Block & Grout - 18in x 4in Grey	10	Sq.Ft.	Cove Base	maintain with O&M plan. (7)
Hall 113	27	Wood Door - Solid Wood	2	Sq.Ft.	With 3ft x 4ft Window	maintain with O&M plan. (7)
Hall 113	30	Caulk - On Interior Steel Door Frame, Grey, Brittle	1	Sq.Ft.		maintain with O&M plan. (7)
Hall 113	33	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	50	Ln.Ft.	Assumed Above Ceiling and At East Wall Heaters	maintain with O&M plan. (7)
Hall 113	85	Caulk - On Exterior Aluminum Storefront Frame	2	Sq.Ft.	Door 12	maintain with O&M plan. (7)

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Hall 113	86	Glazing - On Exterior Aluminum Storefront Frame	2	Sq.Ft.	Door 12	maintain with O&M plan. (7)
Hall 113	91	Glazing - On Trophy Case, Brown/Grey, Brittle	4	Sq.Ft.	4 Windows, 2 6ft x 8ft 2 6ft x 3ft	maintain with O&M plan. (7)
Tunnel - East	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	300	Ln.Ft.		maintain with O&M plan. (7)
Tunnel - East	45	Miscellaneous - Black Tar on Tunnel Wall	25	Sq.Ft.		maintain with O&M plan. (7)
Tunnel - West	1	Pipe Insulation-Mudded Fitting - Elbows and Hangers	100	Ln.Ft.		maintain with O&M plan. (7)

Floor Plan

= Addition 1

*119 - Stairs go to E & W Tunnel

*165 - Stairs go to Basement w/ Additional Room (165.1)

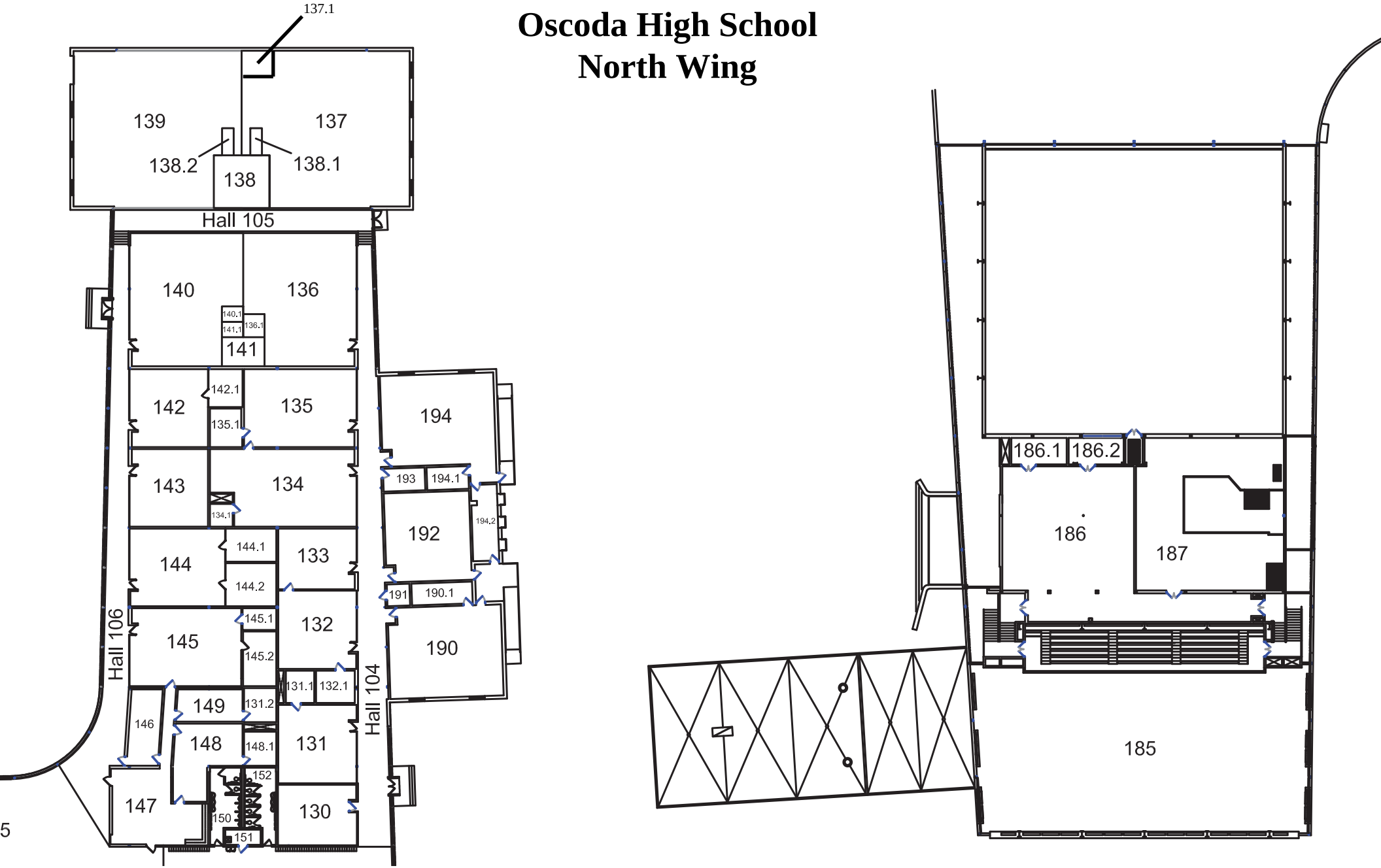
*173 - Stairs go from Tunnel to Boiler House

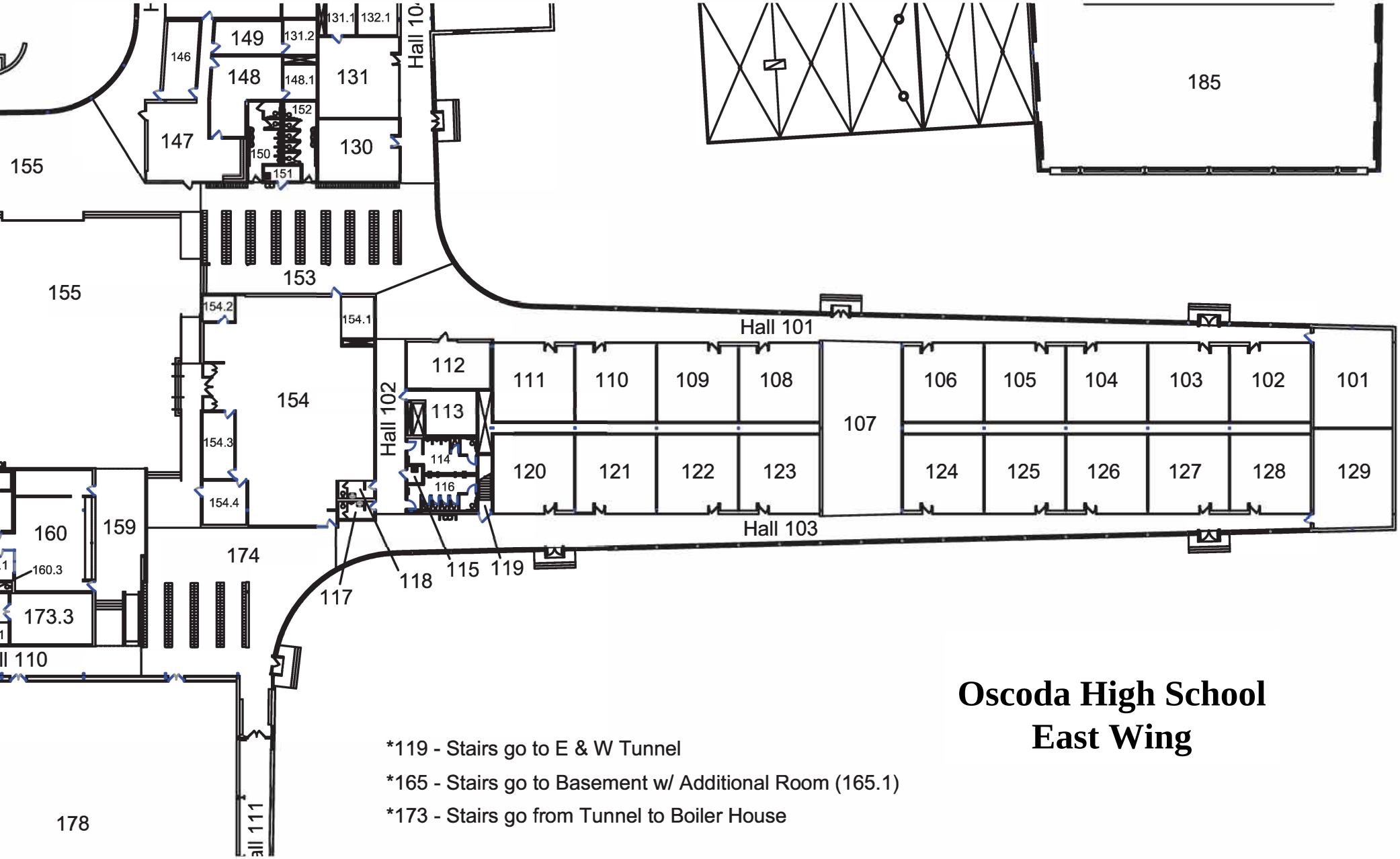
*189 - Tunnel from 173 to Boiler House

North

Oscoda High School

Oscoda High School
North Wing



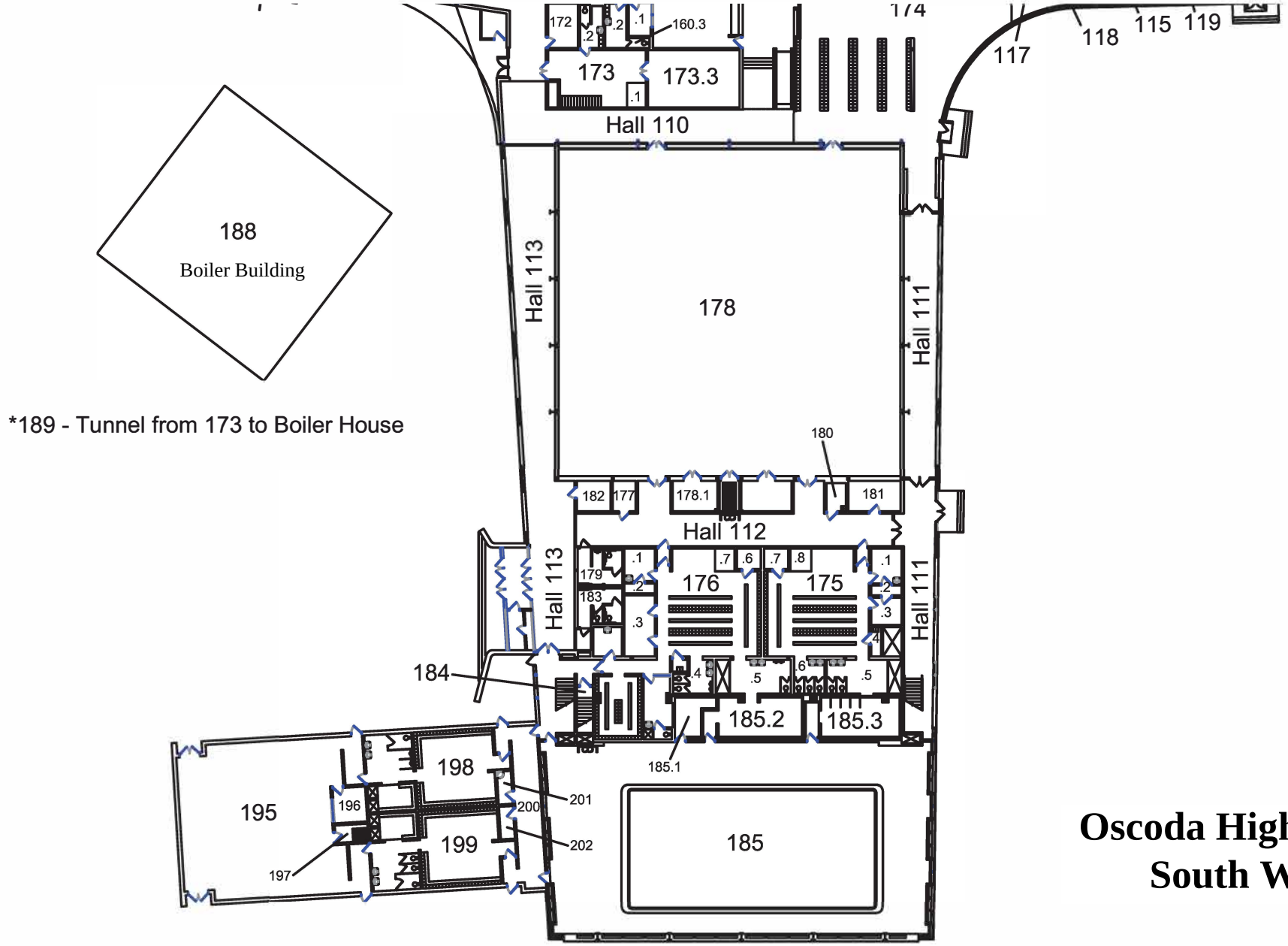


*119 - Stairs go to E & W Tunnel

*165 - Stairs go to Basement w/ Additional Room (165.1)

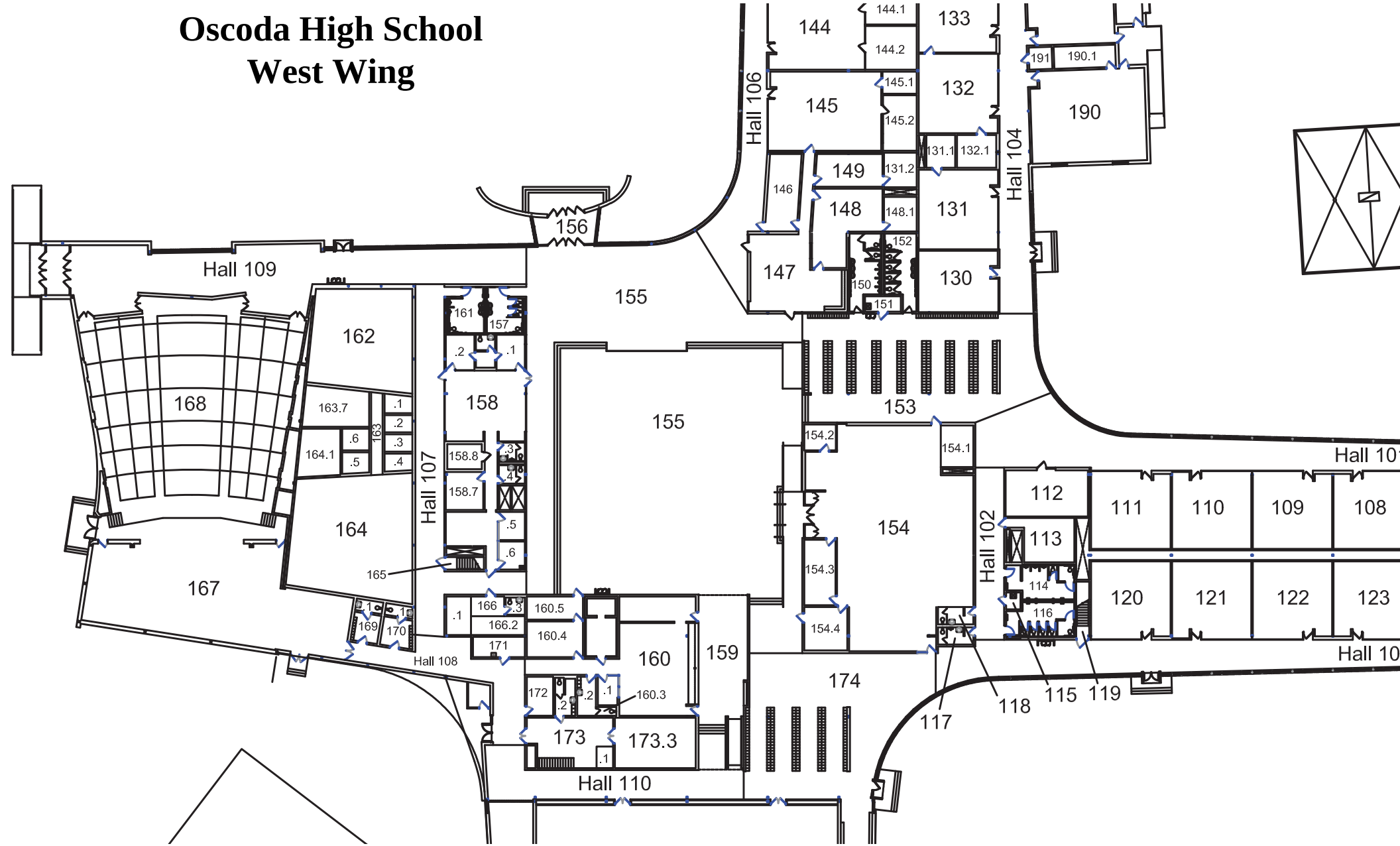
*173 - Stairs go from Tunnel to Boiler House

Oscoda High School
East Wing



Oscoda High School
South Wing

Oscoda High School
West Wing



Photos


CUSTODIAN
Damaged fire rated door is assumed to contain asbestos
Master

Room 115


Damaged duct work insulation contains asbestos
Room 119


Damaged fire rated door is assumed to contain asbestos
Room 137.1


Damaged ceiling tiles contain asbestos
Room 163


Damaged ceiling tile contains asbestos
Room 164


Damaged light backing contains asbestos
Room 175.4

Damaged mudded pipe fittings contain asbestos

Room 187

Richardson Elementary/Middle School

Material Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Richardson Elementary/Middle School
Address: 3630 East River Road
Oscoda, MI 48750

Printed: November 5, 2023

Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
1	Floor Tile & Mastic - 9 inch grey with white streaks	Misc.	Category I Non-Friable	No	Yes	T-4%, M-4%	Chrysotile	0	Sq.Ft.
2	Transite Panels - Above exterior windows	Misc.	Category II Non-Friable	Yes	Yes	30%	Chrysotile	420	Sq.Ft.
3	Caulk - Grey pliable on exterior steel door frame	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
4	Caulk - Hard tan on interior side of exterior aluminum frames	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	0	Sq.Ft.
5	Window Glazing - White on exterior aluminum windows	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	Thermal	Yes	Yes	Yes	---	Assumed	399	Ln.Ft.
7	Glue - Assumed behind visual display boards/mirrors	Misc.	Category II Non-Friable	No	Yes	---	Assumed	1672	Sq.Ft.
8	Caulk - Hard, Tan on Interior Steel Door Frame	Misc.	No	No	No	---	None Detected	34	Sq.Ft.
9	Fire Rated Door - Metal	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	7	Each
10	Pipe Insulation-Mudded Fitting - On fiberglass heat runs	Thermal	Yes	Yes	Yes	---	Assumed	0	Ln.Ft.
11	Floor Tile & Mastic - 12 inch salmon with white and tan flex	Misc.	Category I Non-Friable	No	Yes	T-ND, M-3%	Chrysotile	0	Sq.Ft.
12	Cove Base - 4 inch black	Misc.	No	No	No	---	None Detected	245	Sq.Ft.
13	Ceiling Tile - 12 inch white with texture finish	Misc.	Yes	No	No	---	None Detected	1740	Sq.Ft.
14	Floor Tile & Mastic - 9 inch, Tan w/ White & Brown Streaks	Misc.	Category I Non-Friable	No	Yes	T-A, M-2%	Chrysotile	120	Sq.Ft.
15	Caulk - Hard tan on exterior steel door frame	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	0	Sq.Ft.

** Non-Friable materials may become friable when damaged.*
*** May become regulated asbestos containing material (RACM) when damaged.*

Misc. = miscelleaneous material
Surfacing = surfacing material
Thermal = thermal system insulation
RACM = regulated asbestos containing material

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
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Oscoda, MI 48750

Printed: November 5, 2023

Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
16	Glazing - White on exterior aluminum framed insert in steel frame	Misc.	Category II Non-Friable	Yes	Yes	3%	Chrysotile	0	Sq.Ft.
17	Transite Panels - 3x3 around perimeter wall as decorative finish	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	99	Sq.Ft.
18	Ceiling Tile - 2x4 white with random pits and gouges	Misc.	Yes	No	No	---	None Detected	1740	Sq.Ft.
19	Floor Tile & Mastic - 9 in red with white streaks	Misc.	Category I Non-Friable	No	Yes	T-6%, M-5%	Chrysotile	0	Sq.Ft.
20	Fire Rated Door - Wooden	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	3	Each
21	Pipe Insulation - Roof drain	Thermal	Yes	Yes	Yes	---	Assumed	1	Ln.Ft.
22	Concrete Block - Window sill not block	Misc.	No	No	No	---	None Detected	93	Sq.Ft.
23	Caulk - Grey pliable on exterior aluminum window frame	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	0	Sq.Ft.
24	- Intentionally Left Blank	Misc.							
25	Plaster - Ceiling	Surfacing	Category II Non-Friable	No	Yes	<0.25%-0.5%	Chrysotile	2610	Sq.Ft.
26	Light Backing -	Misc.	Yes	Yes	Yes	20%	Chrysotile	27	Sq.Ft.
27	Ceramic Block - 4in x 12in, Black	Misc.	No	No	No	---	None Detected	340	Sq.Ft.
28	Caulk - On Wall Seam, Tan, Hard	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
29	Cove Base - 4 inch, Black	Misc.	No	No	No	---	None Detected	20	Sq.Ft.
30	Caulk - On Interior Metal Door/Window Transom, Tan	Misc.	No	No	No	---	None Detected	2	Sq.Ft.

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Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
31	Glazing - On Interior Metal Door/Window Transom	Misc.	Category II Non-Friable	No	Yes	0.25%-0.75%	Assumed	2	Sq.Ft.
32	Glazing - On Interior Wood Door Window	Misc.	Category II Non-Friable	No	Yes	<0.25%-0.25%	Chrysotile	2	Sq.Ft.
33	Ceramic Tile & Grout - 4in x 4in, White	Misc.	No	No	No	---	None Detected	1040	Sq.Ft.
34	Ceramic Tile & Grout - 1in x 2in, Blue	Misc.	No	No	No	---	None Detected	400	Sq.Ft.
35	Ceramic Tile & Grout - 6in x 6in, Brown	Misc.	No	No	No	---	None Detected	890	Sq.Ft.
36	Cooler Insulation -	Thermal	Yes	Yes	Yes	---	Assumed	440	Sq.Ft.
37	Cooler Insulation - On Freezer	Thermal	Yes	Yes	Yes	---	Assumed	380	Sq.Ft.
38	Floor Tile & Mastic - 12 inch, Black Mastic, Room 528	Misc.	Category I Non-Friable	No	Yes	T-ND, M-3%	Chrysotile	0	Sq.Ft.
39	Floor Tile & Mastic - 12 inch, Black Mastic, Room 527	Misc.	Category I Non-Friable	No	Yes	T-ND, M-3%	Chrysotile	0	Sq.Ft.
40	Duct Work Insulation - Jacket Insulation	Thermal	Yes	Yes	Yes	---	Assumed	780	Sq.Ft.
41	Floor Tile & Mastic -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	1800	Sq.Ft.
42	Texture - On Exterior Transite Panels, White	Surfacing	Yes	No	No	---	None Detected	Not Quantified	Sq.Ft.
43	Caulk - On Exterior Transite Panels, White	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.

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Response Action Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

LEA: Oscoda Area Schools
Building: Richardson Elementary/Middle School
Building No.: 2-3
Address: 3630 East River Road
Oscoda, MI 48750

Response Action Report

Printed: November 5, 2023

Room Number	Material Number	Homogeneous Material Description	Quantity	Units	Comments	Response Action (AHERA Ranking)
102	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
102	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
102	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
102	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2021	()
103	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
103	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
103	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
103	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2021	()
104	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
104	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
104	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	10	Ln.Ft.		maintain with O&M plan. (7)
104	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
104	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2021	()
105	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
106	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2021	()
107	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()

Northern Analytical Services

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Address: 3630 East River Road
Oscoda, MI 48750

Response Action Report

Printed: November 5, 2023

Room Number	Material Number	Homogeneous Material Description	Quantity	Units	Comments	Response Action (AHERA Ranking)
107	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
107	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
107	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2021	()
108	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
108	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
108	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	2	Ln.Ft.		maintain with O&M plan. (7)
108	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
108	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2021	()
109	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
109	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
109	15	Caulk - Hard tan on exterior steel door frame	0	Sq.Ft.	Abated Summer 2021	()
109	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
110	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
110	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
110	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	11	Ln.Ft.		maintain with O&M plan. (7)
110	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()

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Oscoda, MI 48750

Response Action Report

Printed: November 5, 2023

Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
110	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2021	()
112	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2021	()
113	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2021	()
207	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
207	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
209	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
209	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
209	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	6	Ln.Ft.		maintain with O&M plan. (7)
209	15	Caulk - Hard tan on exterior steel door frame	0	Sq.Ft.	Door 46, Abated April 2023	()
209	40	Duct Work Insulation - Jacket Insulation	430	Sq.Ft.	3 Tanks	maintain with O&M plan. (7)
211	15	Caulk - Hard tan on exterior steel door frame	0	Sq.Ft.	Door 45, Abated April 2023	()
213	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	50	Ln.Ft.	Assumed in Wall and Above Ceiling	maintain with O&M plan. (7)
213	9	Fire Rated Door - Metal	2	Each	1-Half Door	maintain with O&M plan. (7)
213	25	Plaster - Ceiling	750	Sq.Ft.		maintain with O&M plan. (7)
214	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	2	Ln.Ft.		maintain with O&M plan. (7)
214	9	Fire Rated Door - Metal	1	Each		maintain with O&M plan. (7)

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Response Action Report

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Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
214	26	Light Backing -	2	Sq.Ft.	2 Units	maintain with O&M plan. (7)
215	36	Cooler Insulation -	440	Sq.Ft.		maintain with O&M plan. (7)
216	37	Cooler Insulation - On Freezer	380	Sq.Ft.		maintain with O&M plan. (7)
217	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	10	Ln.Ft.	Assumed in Wall and Above Ceiling	maintain with O&M plan. (7)
217	25	Plaster - Ceiling	60	Sq.Ft.		maintain with O&M plan. (7)
217	26	Light Backing -	1	Sq.Ft.	1 Unit	maintain with O&M plan. (7)
218	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	38	Ln.Ft.		maintain with O&M plan. (7)
220	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	36	Ln.Ft.	Assumed in Wall and Above Ceiling	maintain with O&M plan. (7)
220	20	Fire Rated Door - Wooden	1	Each	1 Door to Multi-Use Room	maintain with O&M plan. (7)
220	25	Plaster - Ceiling	650	Sq.Ft.		maintain with O&M plan. (7)
220	26	Light Backing -	11	Sq.Ft.	11 Units	maintain with O&M plan. (7)
221	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	5	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
221	9	Fire Rated Door - Metal	1	Each		maintain with O&M plan. (7)
221	25	Plaster - Ceiling	40	Sq.Ft.		maintain with O&M plan. (7)
221	26	Light Backing -	1	Sq.Ft.	1 Unit	maintain with O&M plan. (7)
222	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	7	Ln.Ft.	5 Assumed Above Ceiling	maintain with O&M plan. (7)

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Response Action Report

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Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
222	14	Floor Tile & Mastic - 9 inch, Tan w/ White & Brown Streaks	60	Sq.Ft.		maintain with O&M plan. (7)
222	31	Glazing - On Interior Metal Door/Window Transom	1	Sq.Ft.	1-3'x5' Window	maintain with O&M plan. (7)
222	32	Glazing - On Interior Wood Door Window	1	Sq.Ft.	1-2'x3' Window	maintain with O&M plan. (7)
223	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	80	Ln.Ft.	Assumed in Wall and Above Ceiling	maintain with O&M plan. (7)
223	25	Plaster - Ceiling	170	Sq.Ft.		maintain with O&M plan. (7)
224	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	36	Ln.Ft.	Assumed in Wall and Above Ceiling	maintain with O&M plan. (7)
224	20	Fire Rated Door - Wooden	1	Each	1 Door to Multi-Use Room	maintain with O&M plan. (7)
224	25	Plaster - Ceiling	650	Sq.Ft.		maintain with O&M plan. (7)
224	26	Light Backing -	11	Sq.Ft.	11 Units	maintain with O&M plan. (7)
225	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	5	Ln.Ft.	Assumed Above Ceiling	maintain with O&M plan. (7)
225	9	Fire Rated Door - Metal	1	Each		maintain with O&M plan. (7)
225	25	Plaster - Ceiling	60	Sq.Ft.		maintain with O&M plan. (7)
225	26	Light Backing -	1	Sq.Ft.	1 Unit	maintain with O&M plan. (7)
226	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	8	Ln.Ft.	5 Assumed Above Ceiling	maintain with O&M plan. (7)
226	14	Floor Tile & Mastic - 9 inch, Tan w/ White & Brown Streaks	60	Sq.Ft.		maintain with O&M plan. (7)
226	25	Plaster - Ceiling	60	Sq.Ft.		maintain with O&M plan. (7)

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Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
226	31	Glazing - On Interior Metal Door/Window Transom	1	Sq.Ft.	1-3'x5' Window	maintain with O&M plan. (7)
226	32	Glazing - On Interior Wood Door Window	1	Sq.Ft.	1-2'x3' Window	maintain with O&M plan. (7)
227	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	80	Ln.Ft.	Assumed in Wall and Above Ceiling	maintain with O&M plan. (7)
227	25	Plaster - Ceiling	170	Sq.Ft.		maintain with O&M plan. (7)
235	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
235	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
235	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
236	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
236	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
238	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
238	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
238	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
239	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
239	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
239	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
240	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()

Northern Analytical Services

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Response Action Report

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Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
240	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
240	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
241	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
241	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
241	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
242	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
242	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
242	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	3	Ln.Ft.		maintain with O&M plan. (7)
242	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
243	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
243	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
243	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	2	Ln.Ft.		maintain with O&M plan. (7)
243	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
246	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
249	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
250	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()

Northern Analytical Services

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LEA: Oscoda Area Schools
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Building No.: 2-3
Address: 3630 East River Road
Oscoda, MI 48750

Response Action Report

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Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
250A	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
251	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
253	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
254	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
255	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
302	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
302	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
302	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	2	Ln.Ft.		maintain with O&M plan. (7)
302	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
303	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
303	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
303	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	2	Ln.Ft.		maintain with O&M plan. (7)
303	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
304	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
304	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
304	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()

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305	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
305	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
305	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
306	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
306	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
306	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
307	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
307	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
307	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	2	Ln.Ft.		maintain with O&M plan. (7)
307	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
308	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
308	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
308	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
309	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
309	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
309	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()

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310	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
310	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
310	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
311	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
311	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
311	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
312	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
312	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
312	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
313	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
313	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
313	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2022	()
314	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()
314	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
314	41	Floor Tile & Mastic -	900	Sq.Ft.		maintain with O&M plan. (7)
315	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2022	()

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315	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2022	()
315	41	Floor Tile & Mastic -	900	Sq.Ft.		maintain with O&M plan. (7)
511	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
511	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
511	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
511	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
511	7	Glue - Assumed behind visual display boards/mirrors	160	Sq.Ft.		maintain with O&M plan. (7)
511	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
512	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
512	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
512	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
512	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
512	7	Glue - Assumed behind visual display boards/mirrors	160	Sq.Ft.		maintain with O&M plan. (7)
512	10	Pipe Insulation-Mudded Fitting - On fiberglass heat runs	0	Ln.Ft.	Abated Summer 2021	(4)
512	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
513	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()

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513	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
513	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
513	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
513	7	Glue - Assumed behind visual display boards/mirrors	160	Sq.Ft.		maintain with O&M plan. (7)
513	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
514	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
514	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
514	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
514	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
514	7	Glue - Assumed behind visual display boards/mirrors	160	Sq.Ft.		maintain with O&M plan. (7)
514	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
520	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
520	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
520	9	Fire Rated Door - Metal	2	Each	1 hall & 1 exterior	maintain with O&M plan. (7)
522	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
522	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()

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522	10	Pipe Insulation-Mudded Fitting - On fiberglass heat runs	0	Ln.Ft.	Abated Summer 2021	(4)
523	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
523	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
523	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
523	7	Glue - Assumed behind visual display boards/mirrors	72	Sq.Ft.	South wall	maintain with O&M plan. (7)
523	10	Pipe Insulation-Mudded Fitting - On fiberglass heat runs	0	Ln.Ft.	Abated Summer 2021	(4)
523	15	Caulk - Hard tan on exterior steel door frame	0	Sq.Ft.	Abated Summer 2021	()
524	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
525A	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
525B	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
525B	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
525B	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
525B	10	Pipe Insulation-Mudded Fitting - On fiberglass heat runs	0	Ln.Ft.	Abated Summer 2021	(4)
526	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
526	10	Pipe Insulation-Mudded Fitting - On fiberglass heat runs	0	Ln.Ft.	Abated Summer 2021	(4)
526	15	Caulk - Hard tan on exterior steel door frame	0	Sq.Ft.	Abated Summer 2021	()

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526	16	Glazing - White on exterior aluminum framed insert in steel frame	0	Sq.Ft.	Abated Summer 2021	()
527	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
527	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
527	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
527	39	Floor Tile & Mastic - 12 inch, Black Mastic, Room 527	0	Sq.Ft.	Abated Summer 2021	()
528	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
528	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
528	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
528	38	Floor Tile & Mastic - 12 inch, Black Mastic, Room 528	0	Sq.Ft.	Abated Summer 2021	()
529	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
529	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
529	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
529	41	Floor Tile & Mastic -	0	Sq.Ft.	Abated Summer 2021	()
530	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
530	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
530	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()

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530	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
530	7	Glue - Assumed behind visual display boards/mirrors	160	Sq.Ft.		maintain with O&M plan. (7)
530	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
531	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
531	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
531	7	Glue - Assumed behind visual display boards/mirrors	160	Sq.Ft.		maintain with O&M plan. (7)
531	10	Pipe Insulation-Mudded Fitting - On fiberglass heat runs	0	Ln.Ft.	Abated Summer 2021	(4)
531	15	Caulk - Hard tan on exterior steel door frame	0	Sq.Ft.	Abated Summer 2021	()
531	19	Floor Tile & Mastic - 9 in red with white streaks	0	Sq.Ft.	Abated Summer 2021	()
532	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
532	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
532	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
532	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
532	7	Glue - Assumed behind visual display boards/mirrors	160	Sq.Ft.		maintain with O&M plan. (7)
532	10	Pipe Insulation-Mudded Fitting - On fiberglass heat runs	0	Ln.Ft.	Abated Summer 2021	(4)
532	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()

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533	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
533	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
533	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
533	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
533	7	Glue - Assumed behind visual display boards/mirrors	160	Sq.Ft.		maintain with O&M plan. (7)
533	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
534	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
534	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
542	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
542	17	Transite Panels - 3x3 around perimeter wall as decorative finish	99	Sq.Ft.	11 panels	maintain with O&M plan. (7)
545	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
545	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
545	11	Floor Tile & Mastic - 12 inch salmon with white and tan flex	0	Sq.Ft.	Abated Summer 2021	()
545	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
546	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
546	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()

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546	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
546	7	Glue - Assumed behind visual display boards/mirrors	160	Sq.Ft.		maintain with O&M plan. (7)
546	10	Pipe Insulation-Mudded Fitting - On fiberglass heat runs	0	Ln.Ft.	Abated Summer 2021	(4)
546	14	Floor Tile & Mastic - 9 inch, Tan w/ White & Brown Streaks	0	Sq.Ft.	Abated Summer 2021	()
546	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
547	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
547	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
547	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
547	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
547	7	Glue - Assumed behind visual display boards/mirrors	160	Sq.Ft.	East and west walls	maintain with O&M plan. (7)
547	23	Caulk - Grey pliable on exterior aluminum window frame	0	Sq.Ft.	Abated Summer 2021	()
Corr. 101	15	Caulk - Hard tan on exterior steel door frame	0	Sq.Ft.	Abated Summer 2021	()
Corr. 510	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
Corr. 519	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
Corr. 519	15	Caulk - Hard tan on exterior steel door frame	0	Sq.Ft.	Abated Summer 2021	()
Corr. 537	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()

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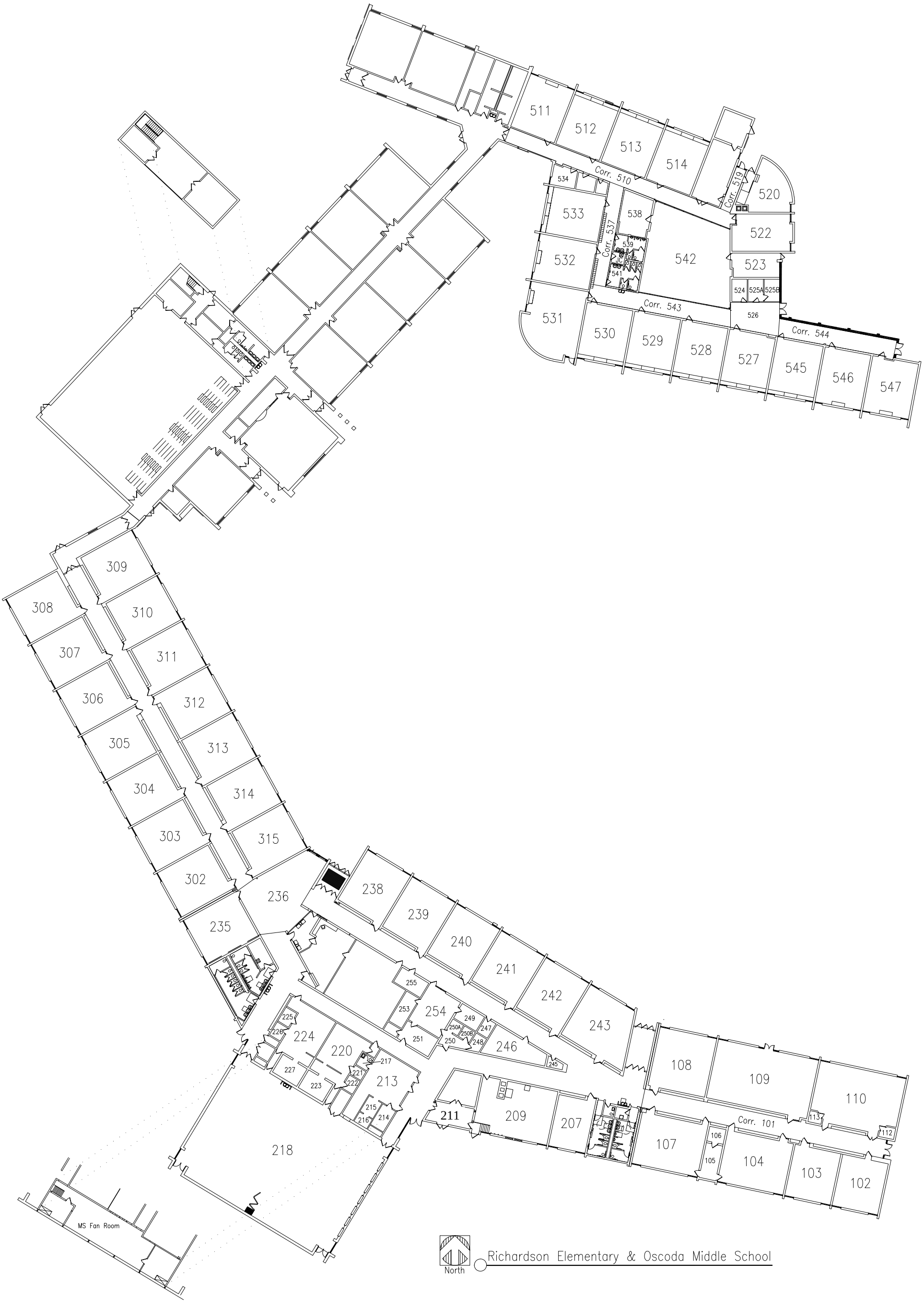
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Corr. 543	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
Corr. 543	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
Corr. 544	1	Floor Tile & Mastic - 9 inch grey with white streaks	0	Sq.Ft.	Abated Summer 2021	()
Corr. 544	2	Transite Panels - Above exterior windows	0	Sq.Ft.	Abated Summer 2021	()
Corr. 544	4	Caulk - Hard tan on interior side of exterior aluminum frames	0	Sq.Ft.	Abated Summer 2021	()
Corr. 544	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	0	Ln.Ft.	Abated Summer 2021	(4)
Corr. 544	10	Pipe Insulation-Mudded Fitting - On fiberglass heat runs	0	Ln.Ft.	Abated Summer 2021	(4)
Corr. 544	15	Caulk - Hard tan on exterior steel door frame	0	Sq.Ft.	Abated Summer 2021	()
Corr. 544	16	Glazing - White on exterior aluminum framed insert in steel frame	0	Sq.Ft.	Abated Summer 2021	()
JC	20	Fire Rated Door - Wooden	1	Each		maintain with O&M plan. (7)
JC	21	Pipe Insulation - Roof drain	1	Ln.Ft.		maintain with O&M plan. (7)
MS Exterior	2	Transite Panels - Above exterior windows	420	Sq.Ft.		maintain with O&M plan. (7)
MS Fan Room	6	Pipe Insulation - Mudded Fitting Insulation on Fiberglass Domestic Water Line	2	Ln.Ft.		maintain with O&M plan. (7)
MS Fan Room	40	Duct Work Insulation - Jacket Insulation	350	Sq.Ft.		maintain with O&M plan. (7)

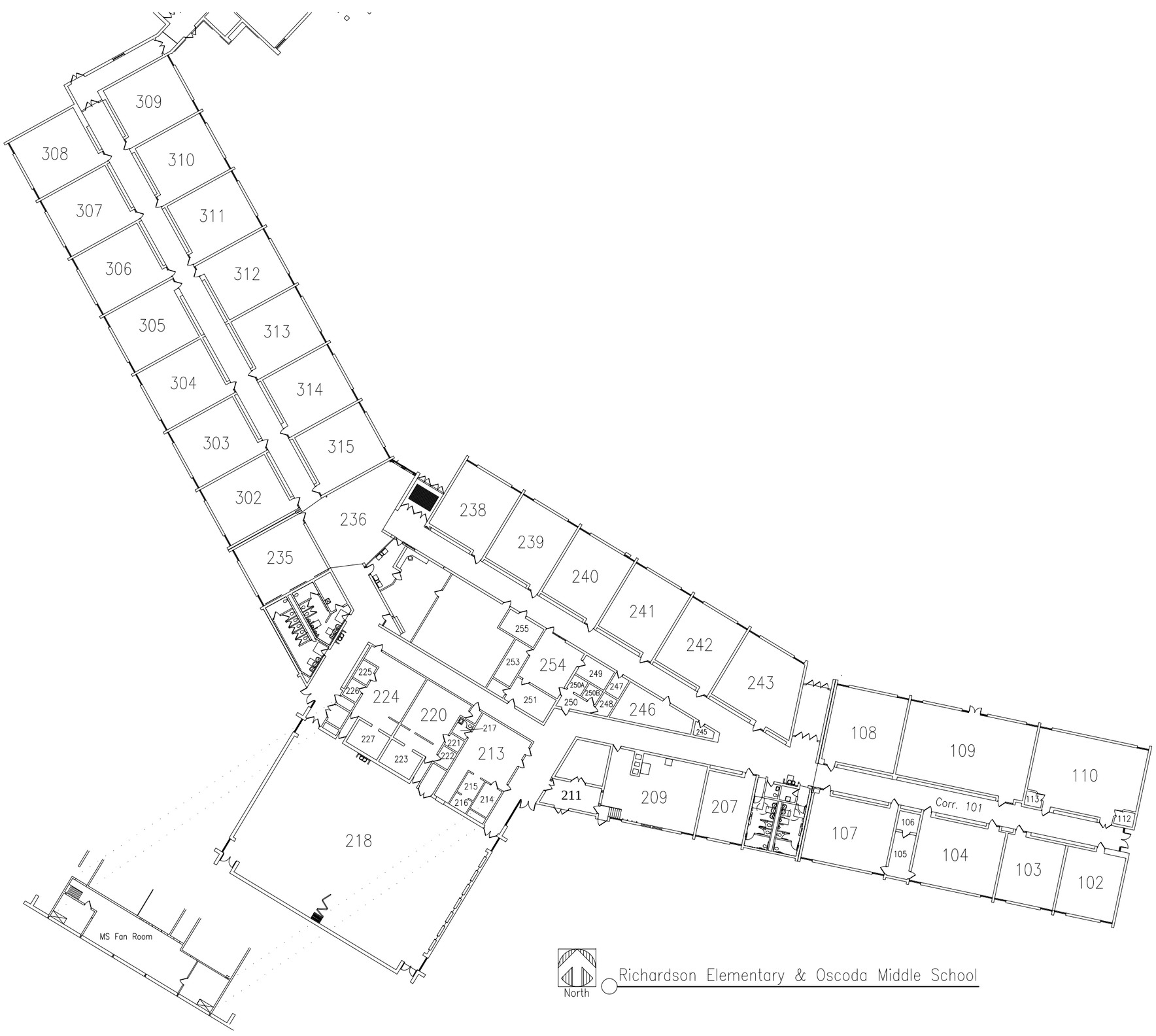
Floor Plan


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MS Fan Room
North
Richardson Elementary & Oscoda Middle School



North

Richardson Elementary & Oscoda Middle School


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MS Fan Room
North
Richardson Elementary & Oscoda Middle School


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MS Fan Room
= Known ACM Floor Covering
= Asbestos Flooring Previously Abated
North
Richardson Elementary & Oscoda Middle School

Oscoda Bus Garage

Material Report

Northern Analytical Services
14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda Bus Garage
Address: 3632-3758 East River Road
Oscoda, MI 48750
Printed: November 5, 2023

Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
1	Pipe Insulation-Mudded Fitting - Elbows	Thermal	Yes	Yes	Yes	---	Assumed	60	Ln.Ft.

** Non-Friable materials may become friable when damaged.*
*** May become regulated asbestos containing material (RACM) when damaged.*

Misc. = miscelleaneous material
Surfacing = surfacing material
Thermal = thermal system insulation
RACM = regulated asbestos containing material

Response Action Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

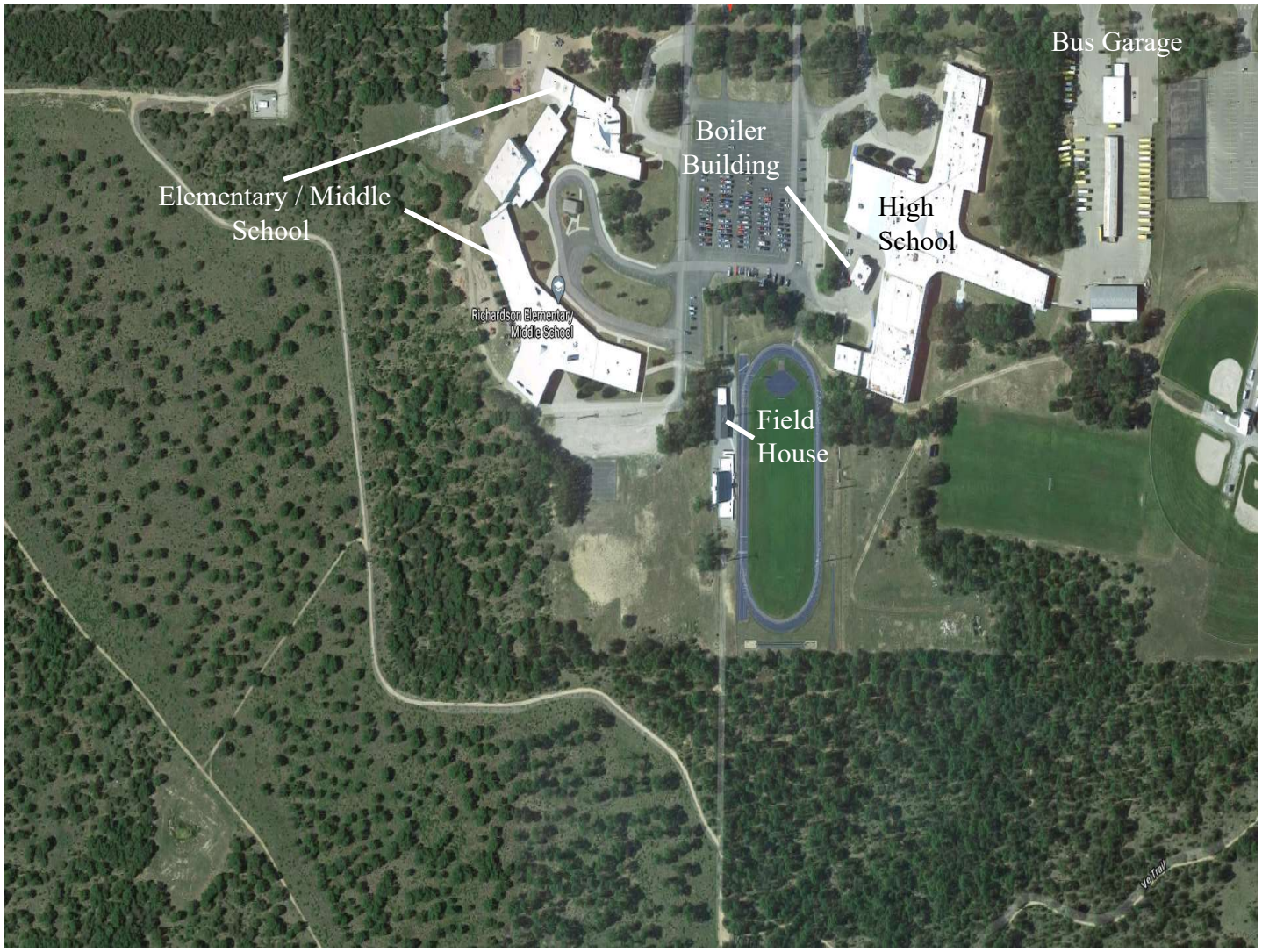
LEA: Oscoda Area Schools
Building: Oscoda Bus Garage
Building No.: 5
Address: 3632-3758 East River Road
Oscoda, MI 48750

Response Action Report

Printed: November 5, 2023

Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
101	1	Pipe Insulation-Mudded Fitting - Elbows	60	Ln.Ft.	Ground floor on hot water line	maintain with O&M plan. (7)

Floor Plan


Bus Garage
Boiler Building
Elementary / Middle School
High School
Richardson Elementary Middle School
Field House
Ve Trail

Oscoda High School Boiler Building

Material Report

Northern Analytical Services
14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School Boiler Building
Address: 3550 River Road
Oscoda, MI 48750
Printed: November 5, 2023

Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
1	Pipe Insulation-Mudded Fitting - Elbows	Thermal	Yes	Yes	Yes	---	Assumed	379	Ln.Ft.
2	Tank Insulation - Jacket Insulation	Thermal	Yes	Yes	Yes	---	Assumed	410	Sq.Ft.
3	Fire Rated Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	2	Each

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Thermal = thermal system insulation
RACM = regulated asbestos containing material

Response Action Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

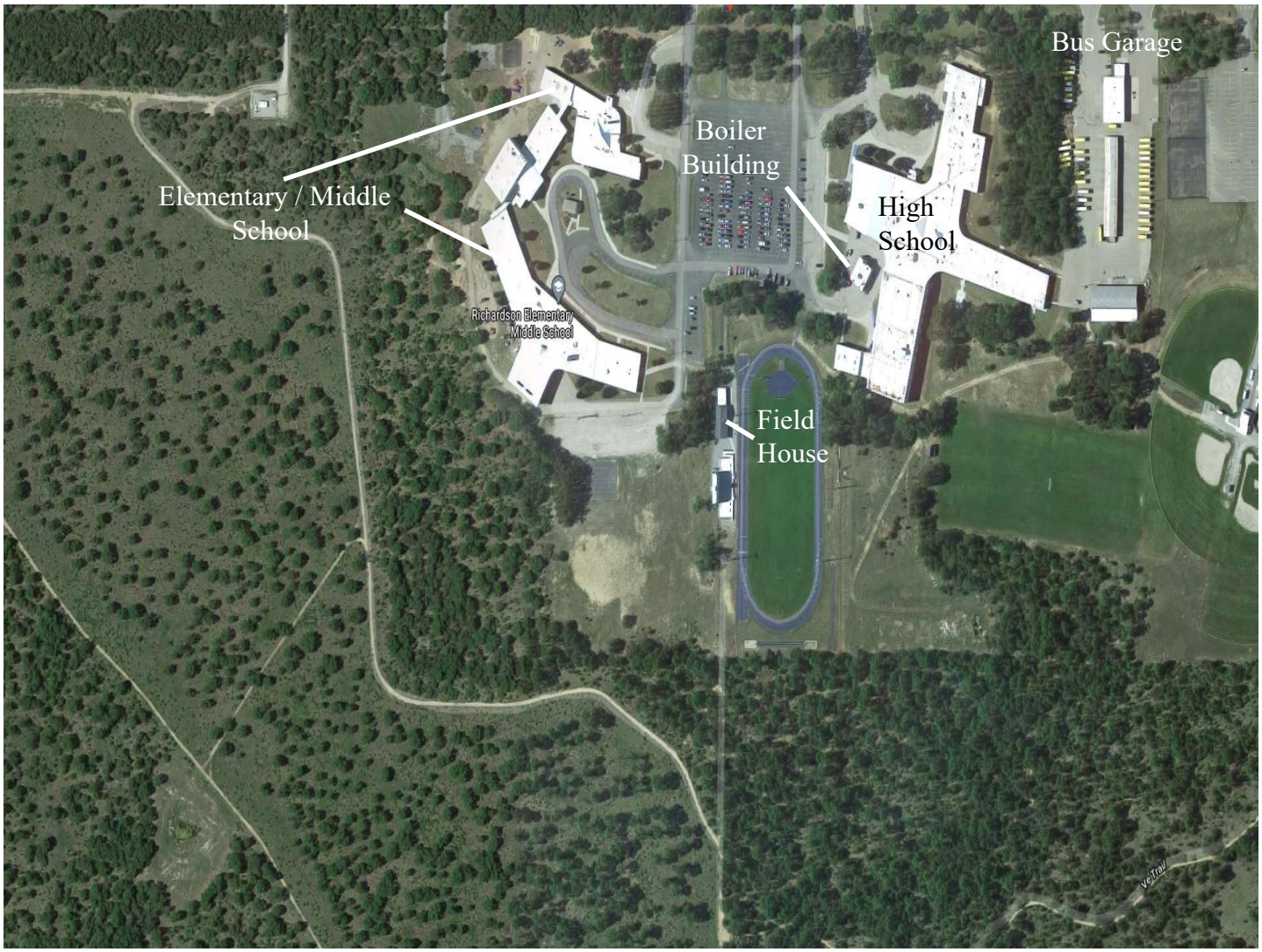
LEA: Oscoda Area Schools
Building: Oscoda High School Boiler Building
Building No.: 6
Address: 3550 River Road
Oscoda, MI 48750

Response Action Report

Printed: November 5, 2023

Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
Boiler Room	1	Pipe Insulation-Mudded Fitting - Elbows	379	Ln.Ft.		maintain with O&M plan. (7)
Boiler Room	2	Tank Insulation - Jacket Insulation	410	Sq.Ft.	Damaged (1 sq.ft.)	remove or repair damage ASAP. (4)
Boiler Room	3	Fire Rated Door -	2	Each	1 Damaged Door	remove or repair damage ASAP. (3)

Floor Plan


Bus Garage
Boiler Building
Elementary / Middle School
High School
Richardson Elementary Middle School
Field House
Ve Trail

Photos




MFH
11-17
AIR ON
AIR OFF

Oscoda High School Field House

Material Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer: Oscoda Area Schools
Building: Oscoda High School Field House
Address: 3550 River Road
Oscoda, MI 48750

Printed: November 5, 2023

Material Report

Material Number	*Homogeneous Material Description*	*Category*	*Friability**	*RACM***	*Asbestos Detected*	*Percent Asbestos*	*Asbestos Type*	*Quantity*	*Units*
1	Tank Insulation - Jacket Insulation	Thermal	Yes	Yes	Yes	---	Assumed	1400	Sq.Ft.

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Misc. = miscelleaneous material
Surfacing = surfacing material
Thermal = thermal system insulation
RACM = regulated asbestos containing material

Response Action Report

Northern Analytical Services
14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

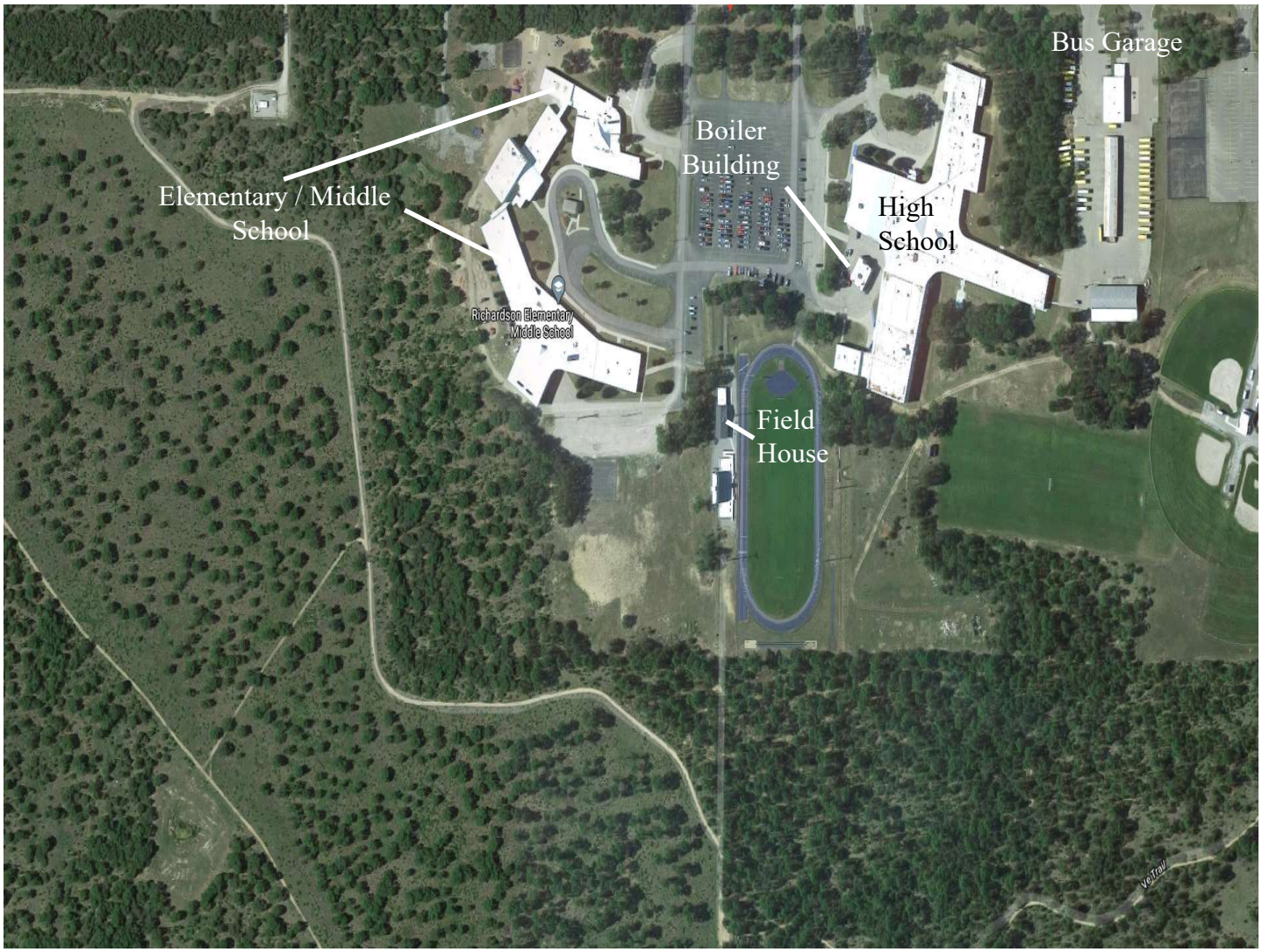
LEA: Oscoda Area Schools
Building: Oscoda High School Field House
Building No.: 7
Address: 3550 River Road
Oscoda, MI 48750

Response Action Report

Printed: November 5, 2023

Room Number	*Material Number*	*Homogeneous Material Description*	*Quantity*	*Units*	*Comments*	*Response Action (AHERA Ranking)*
Mechanical	1	Tank Insulation - Jacket Insulation	1400	Sq.Ft.	No wrap and has cracks	evacuate area immediately; remove or repair damage ASAP. (4)

Floor Plan


Bus Garage
Boiler Building
Elementary / Middle School
High School
Richardson Elementary Middle School
Field House
Ve Trail

Photos



