

COLEMAN JR & SR HIGH SCHOOL

4951 N. LEWIS RD, COLEMAN, MI. 48618

2026 RENOVATION PROJECTS



ISSUED FOR CONSTRUCTION: 10.08.2026

PREPARED BY:

INTEGRATED DESIGNS, INC.

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ARCHITECTURE
ENGINEERING
CONSULTING

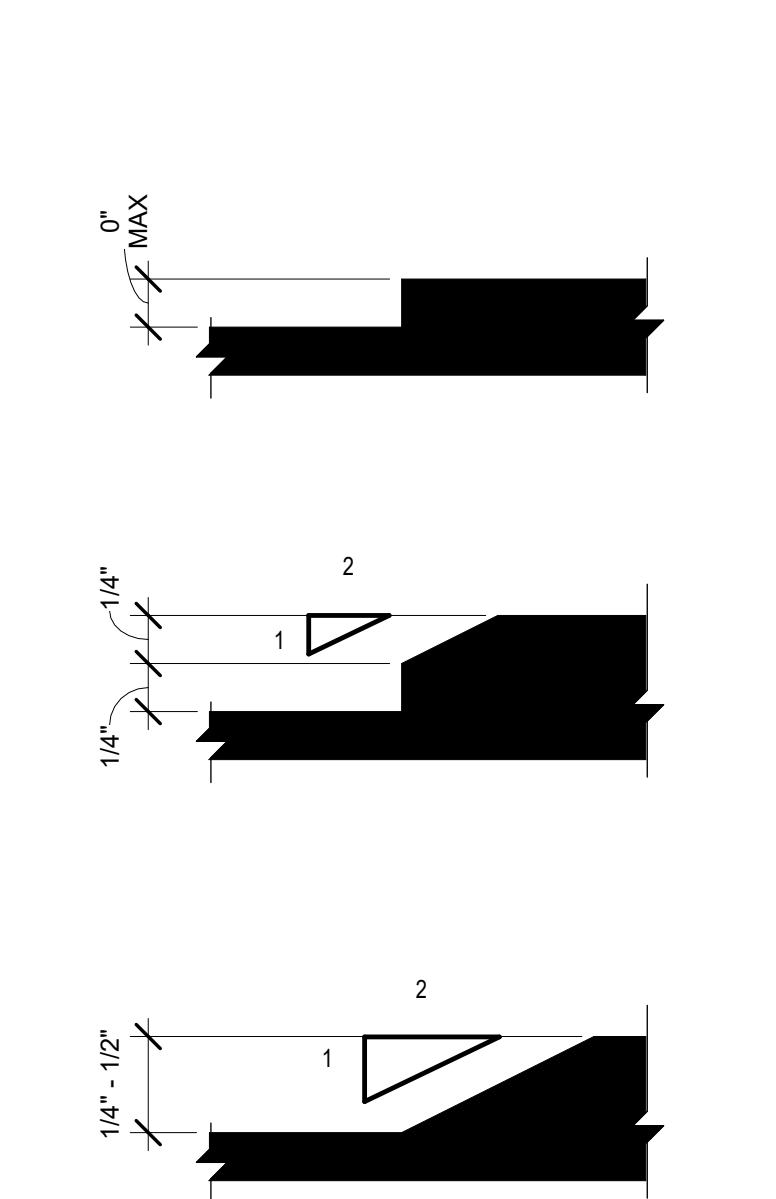
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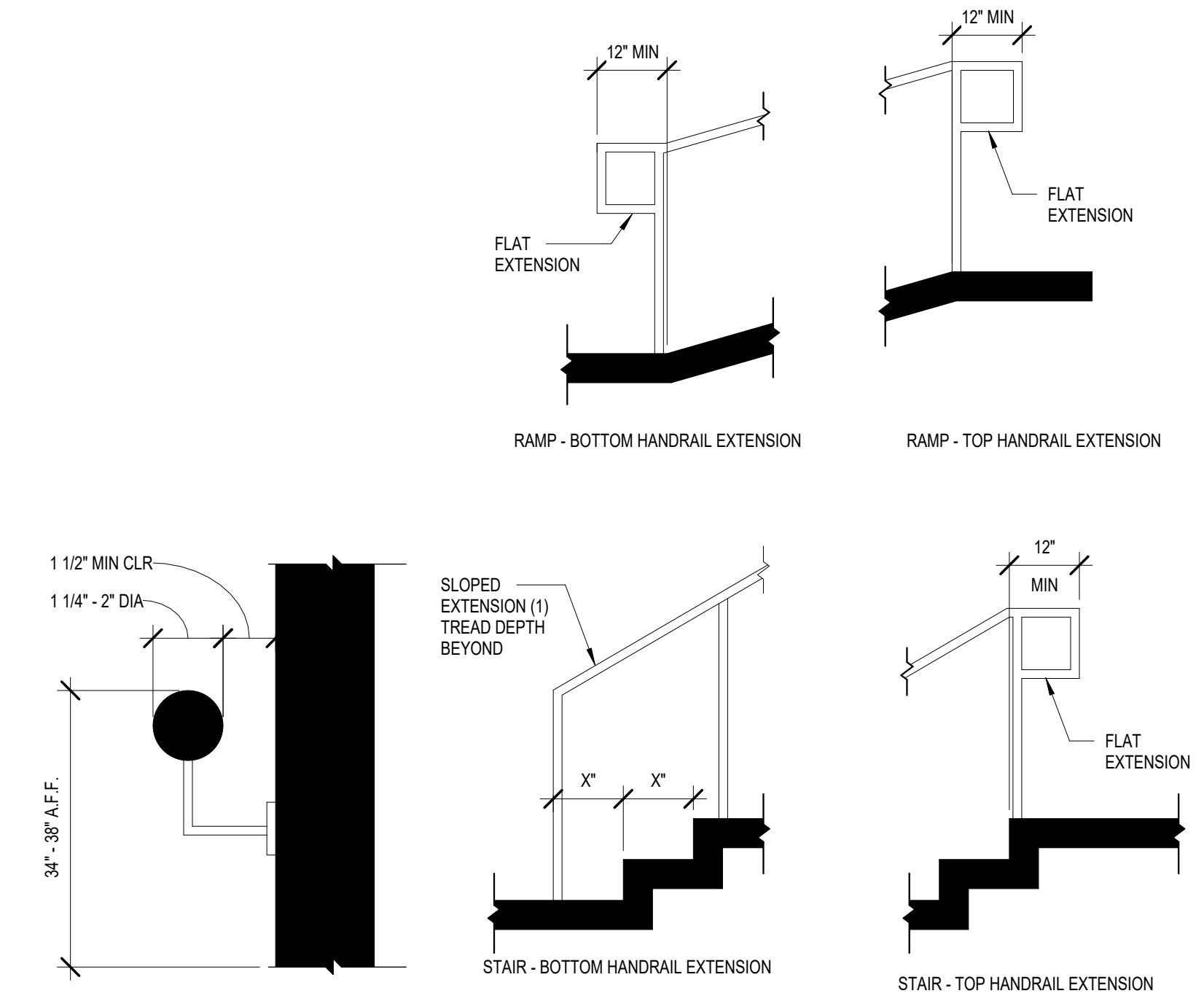
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IDI PROJECT NO.21-949

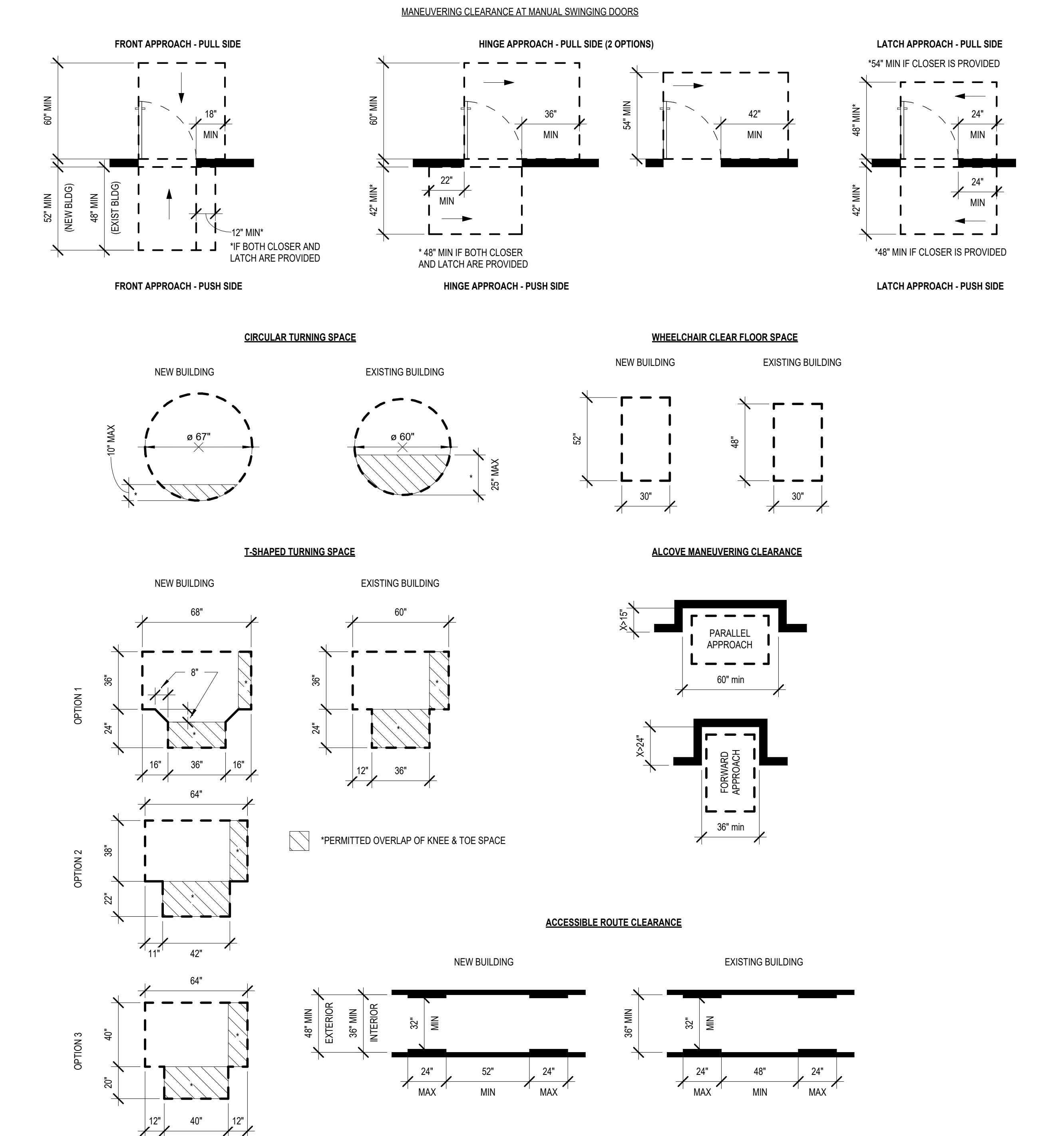
FLOOR TRANSITIONS



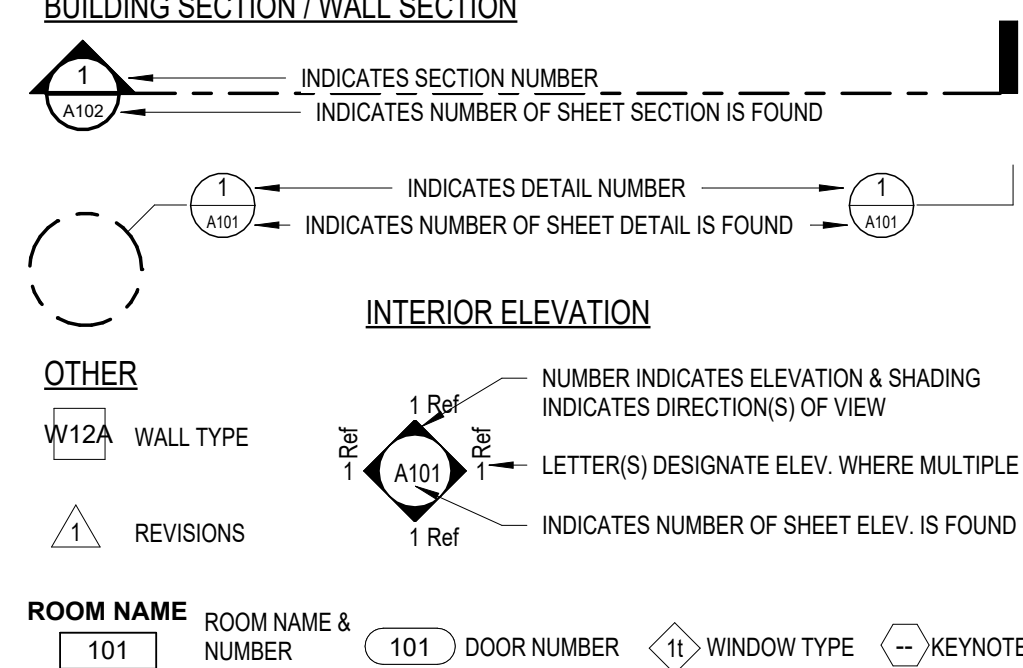
ACCESSIBLE HANDRAILS



ACCESSIBLE MANUEVERING CLEARANCES



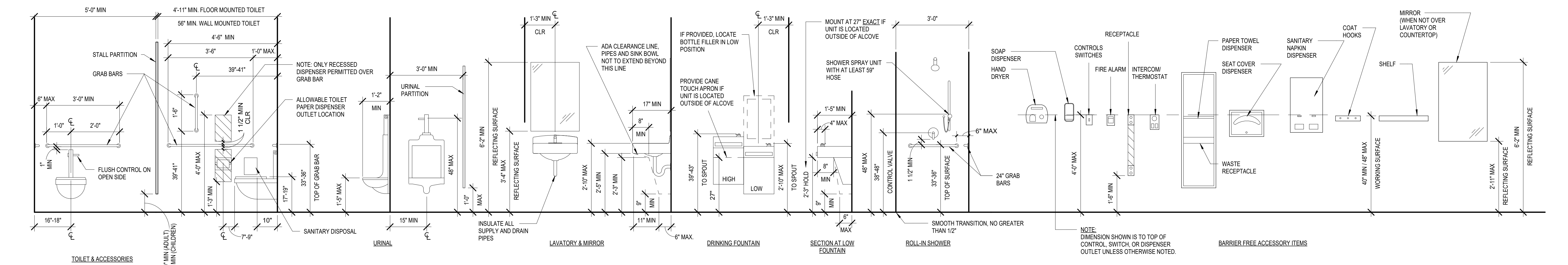
SYMBOL LEGEND



GENERAL NOTES

1. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSION ONLY. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
2. FIELD VERIFY ALL DIMENSION AND CONDITIONS BEFORE PROCEEDING WITH WORK.
3. WHERE ENLARGED OR PARTIAL PLANS ARE REFERENCED, DIMENSIONS, SPECIAL DETAILS OR FINISH REQUIREMENTS ARE NOTED ON THE ENLARGED PLANS AND OMITTED ON THE SMALLER SCALE OR OVERALL PLANS.
4. IT IS INTENDED THAT THE FACE OF EVERY CONTINUOUS PARTITION BE FLUSH, WITHOUT OFFSETS, EVEN AT AN INTERMEDIATE CHANGE IN PARTITION THICKNESS. CHANGES IN PARTITION THICKNESS OCCUR ONLY AT INSIDE OR OUTSIDE CORNERS. THE FACES OF CORRIDOR WALLS MUST ALIGN WITHOUT OFFSETS (UNLESS GRAPHICALLY SHOWN OTHERWISE) ALONG THEIR ENTIRE LENGTH. ALL ADJUSTMENTS DUE TO CHANGING PARTITION THICKNESS MUST OCCUR ON THE ADJOINING ROOM SIDE OF CORRIDOR PARTITIONS AT THE NEAREST INSIDE OR OUTSIDE CORNER.
5. ALL ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS, ETC., LOCATED IN RATED PARTITIONS SHALL BE BACKED WITH GYPSUM BOARD AS REQUIRED TO RETAIN PARTITION RATING.
6. WHEN CONDITIONS OCCUR BETWEEN PLANS AND SPECIFICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
7. WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS.
8. ALL NEW WORK SHALL MEET BARRIER FREE REQUIREMENTS (I.E. GRAB BARS, DOOR HARDWARE, CASEWORK HEIGHTS, ETC.).
9. REFERENCE EACH DISCIPLINES SHEETS FOR ADDITIONAL GENERAL NOTES.

TYP. ACCESSIBLE MOUNTING HEIGHTS



	BY	NO. REVISIONS			DATE
DESIGNED	-	B	DESIGN DEVELOPMENT		06.18.26
DRAWN	-	C	90% REVIEW		08.20.26
CHECKED	-	0	FOR CONSTRUCTION		10.08.26
APPROVED	-				

GENERAL NOTES, SYMBOL
LEGEND & REQUIREMENTS

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G0.1

TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS		
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCED
1. INSPECTION OF REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318:CH. 20, 25.2, 25.3, 26.6.1-26.6.3.	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND c. INSPECT ALL OTHER WELDS	- - X	X X -	AWS D1.4 ACI 318: 26.6.4	
3. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X - -	- - X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172, ASTM C 31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOROTRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND THECNQUES.	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCE; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	X X	- -	ACI 318: 26.10	
10. ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: CH 26.8	
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	
12. INSPECT FROMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE BEING FORMED.	-	X	ACI 318: 26.11.1.2(b)	

TMS 602 TABLE 3 MINIMUM VERIFICATION REQUIREMENTS				
MINIMUM VERIFICATION	REQUIRED FOR QUALITY ASSURANCE ^(a)			REFERENCE FOR CRITERIA
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 602
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS	R	R	R	ART 1.5
PRIOR TO CONSTRUCTION, VERIFICATION OF $f_{m'}$ AND f_{AAC} , EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.	NR	R	R	ART 1.4 B
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.	NR	R	R	ART 1.5 & 1.6.3
DURING CONSTRUCTION, VERIFICATION OF $f_{m'}$ AND f_{AAC} FOR EVERY 5,000 SQ. FT.	NR	NR	R	ART 1.4 B
DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	NR	NR	R	ART 1.4 B

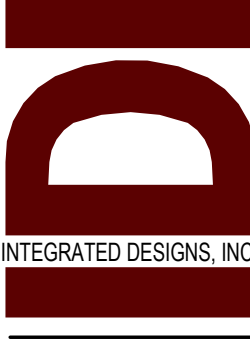
(a) R = REQUIRED, NR = NOT REQUIRED

TMS 602 TABLE 4 MINIMUM SPECIAL INSPECTION REQUIREMENTS					
INSPECTION TASK	FREQUENCY ^(a)			REFERENCE FOR CRITERIA	
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR	NR	P	P		ART 2.1, 2.6 A, & 2.6 C
b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P		ART 2.4 B & 2.4 H
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P		ART 3.4 & 3.6 A
d. PRESTRESSING TECHNIQUE	NR	P	P		ART 3.6 B
e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	NR	C ^(b) P ^(c)	C		ART 2.1 C.1
f. SAMPLE PANEL CONSTRUCTION	NR	P	C		ART 1.6 D
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a. GROUT SPACE	NR	P	C		ART 3.2 D & 3.2 F
b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P	SEC. 10.8 & 10.9	ART 2.4 & 3.6
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	NR	P	C	SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART 3.2 E & 3.4
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	NR	P	P		ART 2.6 B & 2.4 G.1.b
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	NR	P	P		ART 1.5
b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	NR	P	P		ART 3.3 B
c. SIZE AND LOCATION OF STRUCTURAL MEMBERS	NR	P	P		ART 3.3 F
d. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	NR	P	C	SEC. 1.2.1(e), 6.2.1, & 6.3.1	
e. WELDING OF REINFORCEMENT	NR	C	C	SEC. 6.1.6.1.2	
f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))	NR	P	P		ART 1.8 C & 1.8 D
g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	NR	C	C		ART 3.6 B
h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	NR	C	C		ART 3.6 B
i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	NR	C ^(b) P ^(c)	C		ART. 3.3 B.9 & 3.3 F.1.b
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	NR	P	C		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
NR = NOT REQUIRED, P = PERIODIC, C = CONTINUOUS
(b) REQUIRED FOR THE FIRST 5000 SQ. FT. OF AAC MASONRY.
(c) REQUIRED FOR THE FIRST 5000 SQ. FT. OF AAC MASONRY.

TABLE 1705.2 REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCED
1. MATERIAL VERIFICATION OF STRUCTURAL STEEL	-	X		
2. INSPECTION TASKS FOR STRUCTURAL STEEL WELDING:				
a. PRIOR TO WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360 TABLE N5.4-1)	SEE REFERENCED TABLE	SEE REFERENCED TABLE	AISC 360, SECTION N5.4 TABLE N5.4-1, AISC N5.4	
b. DURING WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360 N5.4-2)	SEE REFERENCED TABLE	SEE REFERENCED TABLE	AISC 360, SECTION N5.4 TABLE N5.4-2, AISC N5.4	
c. AFTER WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360 N5.4-3)	SEE REFERENCED TABLE	SEE REFERENCED TABLE	AISC 360, SECTION N5.4 TABLE N5.4-3, AISC N5.4	
d. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS:				
1) COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV	-	X	AISC 360, SECTION N5.5, AISC N5.5	
2) COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II	-	X		
3) THERMALLY CUT SURFACES OF ACCESS HOLES WHEN MATERIAL T>2"	-	X		
4) WELDED JOINTS SUBJECTED TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1	-	X	AISC 360, APPENDIX 3	
5) MANUFACTURERS NDT REPORTS WHEN PERFORMED	-	X		
2. INSPECTION TASKS FOR STRUCTURAL STEEL BOLTING:				
a. PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, N5.6-1)	SEE REFERENCED TABLE	SEE REFERENCED TABLE	AISC 360, SECTION N5.6 TABLE N5.6-2, AISC N5.6	
b. DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)	SEE REFERENCED TABLE	SEE REFERENCED TABLE	AISC 360, SECTION N5.6 TABLE N5.6-2, AISC N5.6	
1) PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCH MARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	-	X	AISC 360, SECTION M2.5	
2) PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCH MARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	X	-		
3) SNUG TIGHT JOINTS.	-	X		
c. AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, N5.6-3)	SEE REFERENCED TABLE	SEE REFERENCED TABLE	AISC 360, SECTION N5.6 TABLE N5.6-3, AISC N5.6	
3. REINFORCING STEEL:				
a. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	-	X		
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	-		
3) SHEAR REINFORCEMENT.	X	-		
4) OTHER REINFORCING STEEL.	-	X		
4. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:				
a. DETAILS SUCH AS BRACING AND STIFFENING.	-	X		
b. MEMBER LOCATIONS.	X	-		
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	-	X		
5. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:				
a. IDENTIFICATION MARKINGS	-	X		
b. MANUFACTURERS CERTIFIED TEST REPORTS	-	X		
6. CONNECTION OF COLD-FORMED DECK TO SUPPORTING STRUCTURE:				
a. WELDING	-	X		
b. OTHER FASTENERS				
1) VERIFY FASTENERS ARE IN CONFORMANCE WITH APPROVED SUBMITTAL	-	X	AISC 360, SECTION N6	
2) VERIFY FASTENER INSTALLATION IS IN CONFORMANCE WITH APPROVED SUBMITTAL AND MANUFACTURER'S RECOMMENDATIONS	-	X		

ARCHITECTURE
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2026 RENOVATION PROJECTS
4951 N. LEWIS RD, COLEMAN, MI. 48818
PROJECT NO. 21-949

NO.	REVISIONS	DATE
C	90% REVIEW	08.20.26
0	FOR CONSTRUCTION	10.08.26

DESIGNED	BY
DRAWN	-
CHECKED	-
APPROVED	-

STRUCTURAL TESTING

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S0.0

STEEL NOTES

1. EXISTING STRUCTURAL INFORMATION, LOCATIONS AND ELEVATIONS ARE BASED ON RECORD DRAWINGS AND/OR FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY THIS INFORMATION PRIOR TO BEGINNING CONSTRUCTION.
2. STEEL MEMBER DESIGN IS BASED UPON THE ALLOWABLE STRENGTH(LOAD & RESISTANCE FACTOR) DESIGN METHOD OF THE 15TH EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
3. STRUCTURAL STEEL WIDE FLANGE("W") SHAPES-ASTM A992(50 KSI STEEL) ALL OTHER STRUCTURAL STEEL PLATES & RODS -ASTM A36
STEEL PIPE WITH WALL THICKNESS GREATER THAN 5/8" -ASTM A53, GRADE B, ALL OTHER ROUND, SQUARE & RECTANGULAR HOLLOW STRUCTURAL SECTIONS, -ASTM A500 GRADE B
4. BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT HALF THE MAXIMUM TOTAL UNIFORM LOAD, FOR THE SPAN OF THE BEAM SHOWN ON THE PLANS. MAXIMUM TOTAL UNIFORM LOADS ARE PROVIDED IN TABLE 3-6 OF THE AISC MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION.
5. ALL STEEL TO STEEL CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER ASTM A325 N HEAVY HEX HEAD, TYPE 1, HIGH STRENGTH BOLTS OR E70XX ELECTRODES, U.N.O. ALL WELDING SHALL BE IN ACCORDANCE WITH LATEST AWS SPECIFICATIONS. MINIMUM WELD SIZE SHALL BE 3/16", U.N.O.
6. ALL BOLTS SHALL BE TIGHTENED TO "SNUG TIGHT" (PER 8.1 OF AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS), U.N.O. BOLTS DESIGNATED ON THE PLANS TO BE "FULLY TENSIONED" SHALL BE TIGHTENED TO THE REQUIRED LOAD BY THE "TURN OF THE NUT" METHOD.
7. ALL FIELD CONNECTIONS SHALL BE BOLTED, U.N.O.
8. MEMBER CONNECTIONS SHALL BE DETAILED FOR A MINIMUM FORCE OF NO LESS THAN 10 KIPS.
9. ALL JOISTS AND JOIST GIRDERS SHALL CONFORM TO SJI STANDARDS. EXTEND BOTTOM CHORDS TO CONNECT AT ALL COLUMNS. PROVIDE BRIDGING PER SJI STANDARDS. JOIST CAMBER FOR FLOOR JOISTS SHALL BE PER SJI SPECIFICATIONS. ROOF JOISTS SHALL BE CAMBERED NO MORE THAN REQUIRED TO OFFSET DEFELECTION DUE TO THE JOISTS OWN WEIGHT.
10. METAL ROOF DECK SHALL BE ASTM A811, GRADES C, D OR E, AS APPLICABLE, FOR UNCOATED OR PAINTED DECK. FOR GALVANIZED ROOF DECK, CONFORM TO ASTM A653 STRUCTURAL QUALITY GRADE 33 OR HIGHER, WITH G60 GALVANIZED COATING CONFORMING TO ASTM A525. ALL ROOF DECK SHALL CONFORM TO SDI STANDARDS, AND BE PAINTED, EXCEPT WHERE SPRAYED ON FIREPROOFING IS TO BE APPLIED, WHERE DECK SHALL BE UNCOATED.
11. OPENINGS THROUGH ROOF DECK MAY OR MAY NOT BE SHOWN ON FRAMING PLANS. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND PROVIDE FOR OPENINGS AND FRAMES/REINFORCING AS FOLLOWS:
A. OPENINGS UP TO 18"x18"-PROVIDE L2x2x3/16 ANGLES PERPENDICULAR TO DECK FLUTES, ON BOTH SIDES OF OPENING. EXTEND ANGLES A MINIMUM OF 2 FLUTES BEYOND EDGE OF OPENING. FASTEN ANGLES TO EACH FLUTE WITH # 10 TEK SCREWS.
B. OPENINGS LARGER THAN 18"x18"-PROVIDE A WELDED L4x4x1/4 FRAME SUPPORTED BY STEEL JOISTS OR BEAMS AS SHOWN IN "TYPICAL JOIST REINFORCING DETAIL" (SEE SHEET S4.0). REINFORCE STEEL JOISTS PER THE SAME DETAIL.
12. PROVIDE CONTINUOUS 12 GAUGE, 12"(MINIMUM) WIDE COVER PLATE WHERE ROOF DECK CHANGES DIRECTION. FASTEN TO DECK ON BOTH SIDES OF JOINT WITH #10 TEK SCREWS AT 12" O.C.
13. METAL FORM DECK SHALL BE ASTM A653 STRUCTURAL QUALITY GRADE 33 OR HIGHER, WITH G60 GALVANIZED COATING CONFORMING TO ASTM A525 OR PAINTED FINISH, AS INDICATED ON PLANS.
14. UNLESS NOTED OTHERWISE, METAL DECK SHALL BE FASTENED TO SUPPORT MEMBERS AT 18" O.C. PROVIDE TWO SIDELAP FASTENERS EVENLY SPACED BETWEEN SUPPORT MEMBERS. SUPPORT MEMBER FASTENERS SHALL BE #12 TEK SCREWS. SIDELAP FASTENERS SHALL BE #10 TEK SCREWS. METAL DECK SHALL NOT BE WELDED.
15. STEEL PAINTING_PROVIDE RED OXIDE SHOP COAT.
16. LOADS INDICATED ON PLANS ARE FULLY ADJUSTED CONNECTION DESIGN LOADS DO NOT INCREASE ALLOWABLE STRESSES FOR WIND, ETC.
17. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. FABRICATOR SHALL PRODUCE ERECTION DRAWINGS WITHOUT PHOTOCOPIYING OR OTHERWISE REPRODUCING THE ARCHITECT'S DESIGN PLANS.

MASONRY NOTES

1. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED, INDEPENDENT, INSPECTION FIRM TO PERFORM ON-SITE INSPECTIONS OF MASONRY AS REQUIRED BY TABLE 3 & 4 OF TMS 602-16.
2. ALL CONCRETE MASONRY SHALL CONFORM TO ASTM C90, HOLLOW LOADBEARING BLOCK UNITS, LAY BLOCK IN RUNNING BOND. ADD "DRY-BLOCK" BLOCK ADMIXTURE TO THE MIX FOR ALL CMU TO BE USED IN THE EXTERIOR WYTHE FOR ALL WALLS.
3. ALL MORTAR FOR CONCRETE MASONRY SHALL CONFORM TO ASTM C270, TYPE S. JOINTS SHALL BE TOOLED CONCAVE. ADD "DRY-BLOCK" MORTAR ADMIXTURE TO THE MIX FOR ALL MORTAR TO BE USED IN THE EXTERIOR WYTHE FOR ALL WALLS.
4. ALL GROUT SHALL CONFORM TO ASTM C476. MORTAR SHALL NOT BE SUBSTITUTED FOR GROUT. CORES CONTAINING REBAR SHALL BE GROUTED SOLID.
5. REBAR LAPS
A. VERTICAL WALL REINFORCING-48 BAR DIAMENTERS
B. BOND BEAMS-30 BAR DIAMETERS
C. REBAR SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
6. HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE, GALVANIZED FINISH, COLD DRAWN STEEL WITH 9 GAUGE SIDE RODS AND CROSS TIES. INSTALL JOINT REINFORCEMENT AT 16" O.C., VERTICALLY.
7. SEE LINTEL SCHEDULE FOR STEEL LINTELS. PROVIDE BOND BEAM MASONRY LINTELS OVER ALL WALL OPENINGS NOT SCHEDULED FOR STEEL LINTELS. BOND BEAM LINTELS SHALL BE 8" HIGH WITH TWO #5 BOTTOM BARS, U.N.O.
8. IN SINGLE WYTHE AND MULTI-WYTHE SOLID WALLS, STEEL LINTELS SHALL BE CENTERED ON THE WALL. IN MULTI-WYTHE CAVITY WALLS, STEEL LINTELS SHALL BE CENTERED ON THE CONCRETE MASONRY WYTHE AND THE BOTTOM PLATE FOR VENEER SUPPORT SHALL BE OFFSET AS REQUIRED.
9. STEEL BOTTOM PLATES SHALL BE WELDED TO BEAM SECTIONS TO CARRY MASONRY. PLATE WIDTH SHALL BE THE NOMINAL WALL THICKNESS MINUS 1". PLATE THICKNESS SHALL BE 1/4" FOR PLATES 12" AND LESS WIDE, AND 5/16" FOR PLATES WIDER THAN 12".
10. ALL LINTELS SHALL BEAR 8" EACH END, UNLESS A BEARING PLATE IS CALLED FOR ON THE PLANS. FIELD WELD LINTELS TO BEARING PLATES.
11. GROUT MASONRY CORES DIRECTLY BELOW JOIST, BEAM AND LINTEL BEARINGS IN NEW AND EXISTING MASONRY A MINIMUM OF ONE COURSE, U.N.O.
12. PROVIDE VERTICAL CONTROL JOINTS AT THE FOLLOWING LOCATIONS:
A. AS SHOWN ON THE PLANS
B. IF CONTROL JOINTS ARE NOT SHOWN ON THE PLANS, LOCATE AS FOLLOWS:
a. INTERSECTIONS OF PERPENDICULAR WALLS
b. CHANGES IN WALL HEIGHT
c. CHANGES IN WALL THICKNESS
d. TRANSITION BETWEEN SLAB & FOOTING SUPPORTED WALLS
e. SPACED NO MORE THAN 40 FEET OR TWICE THE WALL HEIGHT APART, WHICHEVER IS LESS
13. DO NOT PLACE VERTICAL CONTROL JOINTS THROUGH BOND BEAM MASONRY LINTELS, OR WITHIN 16" OF A BEAM OR JOIST BEARING POINT.
14. ALL "CAST_IN" ANCHOR RODS FOR STRUCTURAL STEEL COLUMNS SHALL BE ASTM F1554, GRADE 36.
15. ALL FOUNDATION ANCHORS FOR WOOD CONSTRUCTION SHALL BE ASTM A307 STEEL, U.N.O. GALVANIZE TO G60 COATING PER ASTM A153 FOR EXTERIOR AND HIGH HUMIDITY LOCATIONS; GALVANIZE TO G185 COATING PER ASTM A153 FOR ITEMS IN CONTACT WITH PRESERVATIVE TREATED WOOD; PLAIN FINISH FOR ALL OTHER LOCATIONS.
16. DRILLED IN CONCRETE ANCHORS(DCA'S) FOR GROUTED MASONRY SHALL BE AS FOLLOWS:
A. HILTI HEAVY DUTY "KWIK BOLTS"
B. RAMSET/REDHEAD "DYNABOLT SLEEVE"
C. POWERS/RAWIL "POWERBOLT"
D. SIMPSON STRONG-TIE "WEDGE-ALL"
E. APPROVED EQUAL
F. PROVIDE STAINLESS STEEL OR GALVANIZED TO G185 COATING PER ASTM A153 FOR DCA'S IN CONTACT WITH PRESERVATIVE TREATED WOOD.
17. DRILLED IN CONCRETE ANCHORS(DCA'S) FOR HOLLOW MASONRY SHALL BE AS FOLLOWS:
A. HILTI "SLEEVE ANCHORS"
B. RAMSET/REDHEAD "DYNABOLT SLEEVE"
C. POWERS/RAWIL "LOKBOLT"
D. SIMPSON STRONG-TIE "SLEEVE-ALL"
E. APPROVED EQUAL
F. PROVIDE STAINLESS STEEL OR GALVANIZED TO G185 COATING PER ASTM A153 FOR DCA'S IN CONTACT WITH PRESERVATIVE TREATED WOOD.
18. NO FILL SHALL BE PLACED AGAINST CONCRETE MASONRY WALLS UNTIL MORTAR HAS REACHED 75% OF DESIGN STRENGTH OR UNTIL DIRECTED BY THE ARCHITECT.
19. ALL INTERSECTING MASONRY WALLS(LOAD AND NONLOADBEARING) SHALL BE ANCHORED OR BONDED TOGETHER BY ONE OF THE METHODS DESCRIBED IN THE TMS 602-16 A.8, U.N.O. MASONRY WALLS INTERSECTING A PERPENDICULAR WALL OF DIFFERENT MATERIAL SHALL BE ANCHORED TO THAT WALL BY MEANS OF STEEL CONNECTORS PER TMS 602-16 A.8.2.2, U.N.O.
20. INTERIOR NONLOADBEARING MASONRY WALLS, WITH AN UNSUPPORTED LENGTH BETWEEN INTERSECTING PERPENDICULAR WALLS GREATER THAN 36 TIMES THE WALL THICKNESS, SHALL BE BRACED TO THE FLOOR OR ROOF STRUCTURE ABOVE AT INTERVALS NOT EXCEEDING 36 TIMES THE WALL THICKNESS, U.N.O.
21. ALL COLD WEATHER MASONRY WORK SHALL BE DONE IN ACCORDANCE WITH "MIAWC: RECOMMENDED PRACTICES AND GUIDE SPECIFICATION FOR COLD WEATHER MASONRY CONSTRUCTION". THE "MIAWC" PROVISIONS SHALL BE CONSIDERED TO BE MANDATORY.

CONCRETE NOTES

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WITH MINIMUM LAPS OF 8".
2. PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. ALL LAPS SHALL BE A MINIMUM OF 30 BAR DIAMETERS, U.N.O.
3. PROVIDE DOWELS BETWEEN ALL FOOTINGS, WALLS, AND PIERS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING. ALL LAPS SHALL BE A MINIMUM OF 30 BAR DIAMETERS, U.N.O.
4. ALL "CAST_IN" ANCHOR RODS FOR STRUCTURAL STEEL COLUMNS SHALL BE ASTM A307.
5. ALL FOUNDATION ANCHORS FOR WOOD CONSTRUCTION SHALL BE ASTM A307 STEEL, U.N.O. GALVANIZE TO G60 COATING PER ASTM A153 FOR EXTERIOR AND HIGH HUMIDITY LOCATIONS; GALVANIZE TO G185 COATING PER ASTM A153 FOR ITEMS IN CONTACT WITH PRESERVATIVE TREATED WOOD; PLAIN FINISH FOR ALL OTHER LOCATIONS.
6. ALL CONCRETE SHALL ATTAIN THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS:
A. FOOTINGS, WALLS, PIERS.....3000 PSI
B. SLABS ON GRADE OR METAL DECK.....4000 PSI
7. PROVIDE AIR ENTRAINING FOR ALL CONCRETE EXCEPT INTERIOR SLABS AND INTERIOR FOOTINGS.
8. CONCRETE SHALL CONFORM TO THE FOLLOWING:
A. ACI 301: SPECIFICATIONS FOR STRUCTURAL CONCRETE
B. ACI 305: HOT WEATHER CONCRETING
C. ACI 306: COLD WEATHER CONCRETING
9. NO FILL SHALL BE PLACED AGAINST CONCRETE WALLS UNTIL CONCRETE HAS REACHED 75% OF DESIGN STRENGTH OR UNTIL DIRECTED BY THE ARCHITECT.
10. DRILLED IN CONCRETE ANCHORS(DCA'S) SHALL BE AS FOLLOWS:
A. HILTI HEAVY DUTY "KWIK BOLTS"
B. RAMSET/REDHEAD "DYNABOLT SLEEVE"
C. POWERS/RAWIL "POWERBOLT"
D. SIMPSON STRONG-TIE "WEDGE-ALL"
E. APPROVED EQUAL
F. PROVIDE STAINLESS STEEL OR GALVANIZED TO G185 COATING PER ASTM A153 FOR DCA'S IN CONTACT WITH PRESERVATIVE TREATED WOOD.
11. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4".
12. ELECTRICAL CONDUITS, PIPES, DRAINS, ETC. SHALL BE IN PLACE BEFORE CONCRETE IS PLACED.
13. FIBER REINFORCING FOR SLABS ON GRADE SHALL BE SYNTHETIC POLYPROPYLENE FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE SLABS, COMPLYING WITH ASTM C 1116, TYPE III, ½ TO 1-1/2 INCHES LONG.
14. REBAR SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL.

STRUCTURAL LOADS

1. DESIGN LOADS, IN ACCORDANCE WITH THE 2021 MICHIGAN BUILDING CODE & SEIASCSE 7-16.
2. SNOW LOAD INFORMATION
A. Pg=40 PSF
B. Is=1.0(CATEGORY II)
C. Ce=1.0(EXPOSURE B)
D. Cf=1.1
E. Pf=31 PSF=(40 PSF)(0.7)(1.0)(1.0)(1.1)
F. ROOF DEAD LOAD=20 PSF
G. ROOF SNOW LOAD=31 PSF UNIFORM
3. WIND LOAD INFORMATION
A. Vult=114 MPH Vasd= 93 MPH
B. W=1.0(CATEGORY III)
C. EXPOSURE C
D. GCpfe=0.18 & -0.18
E. COMPONENTS & CLADDING DESIGN WIND PRESSURE=29 PSF
F. BASIC WIND PRESSURE=19 PSF
4. SEISMIC LOAD INFORMATION
A. OCCUPANCY CATEGORY III(Le=1.25)
B. SPECTRJAL RESPONSE ACCELERATIONS
a. Ss=0.062g
b. S1=0.038g
C. SITE CLASS D
D. SPECTRAL RESPONSE COEFFICIENTS
a. Sds=0.067g
b. Sd1=0.061g
E. SEISMIC DESIGN CATEGORY A

NO.	REVISIONS	DATE
C	90% REVIEW	08.20.26
0	FOR CONSTRUCTION	10.08.26

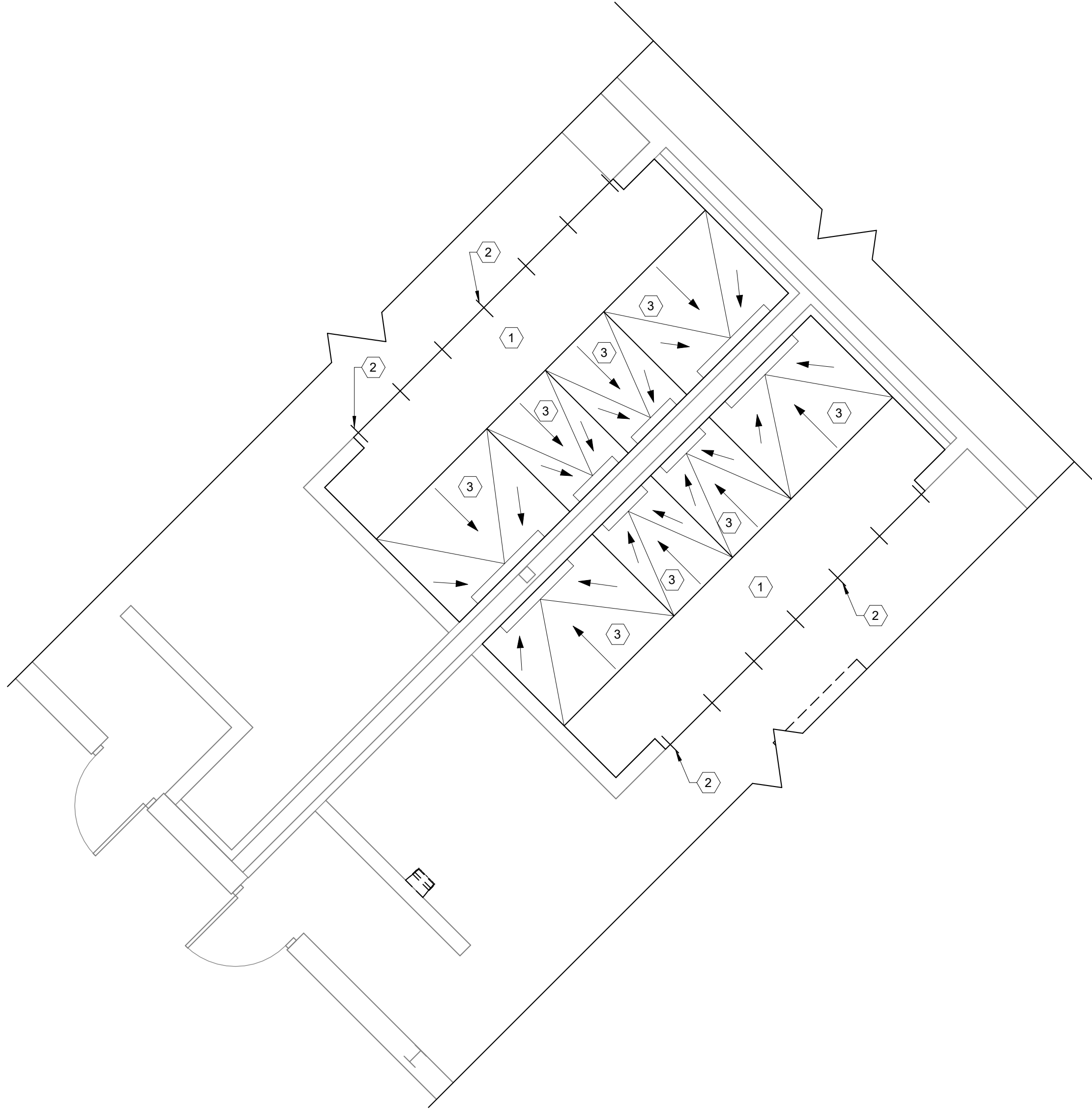
DESIGNED	BY
DRAWN	-
CHECKED	-
APPROVED	-

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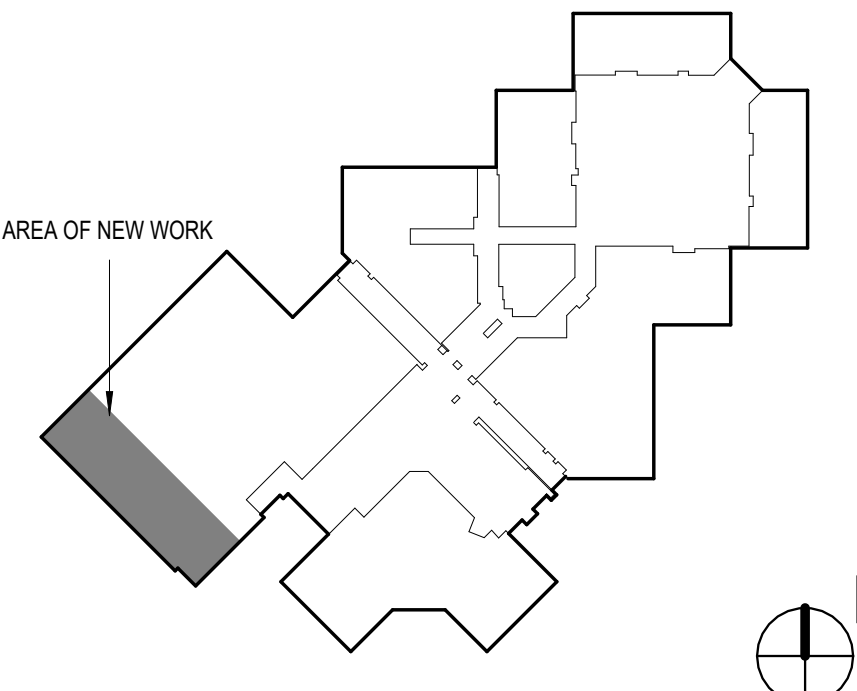
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10000 BARRAGE AVENUE, SUITE 500
BRIGHTON, MI 48116
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LOCKER ROOM SLAB PLAN

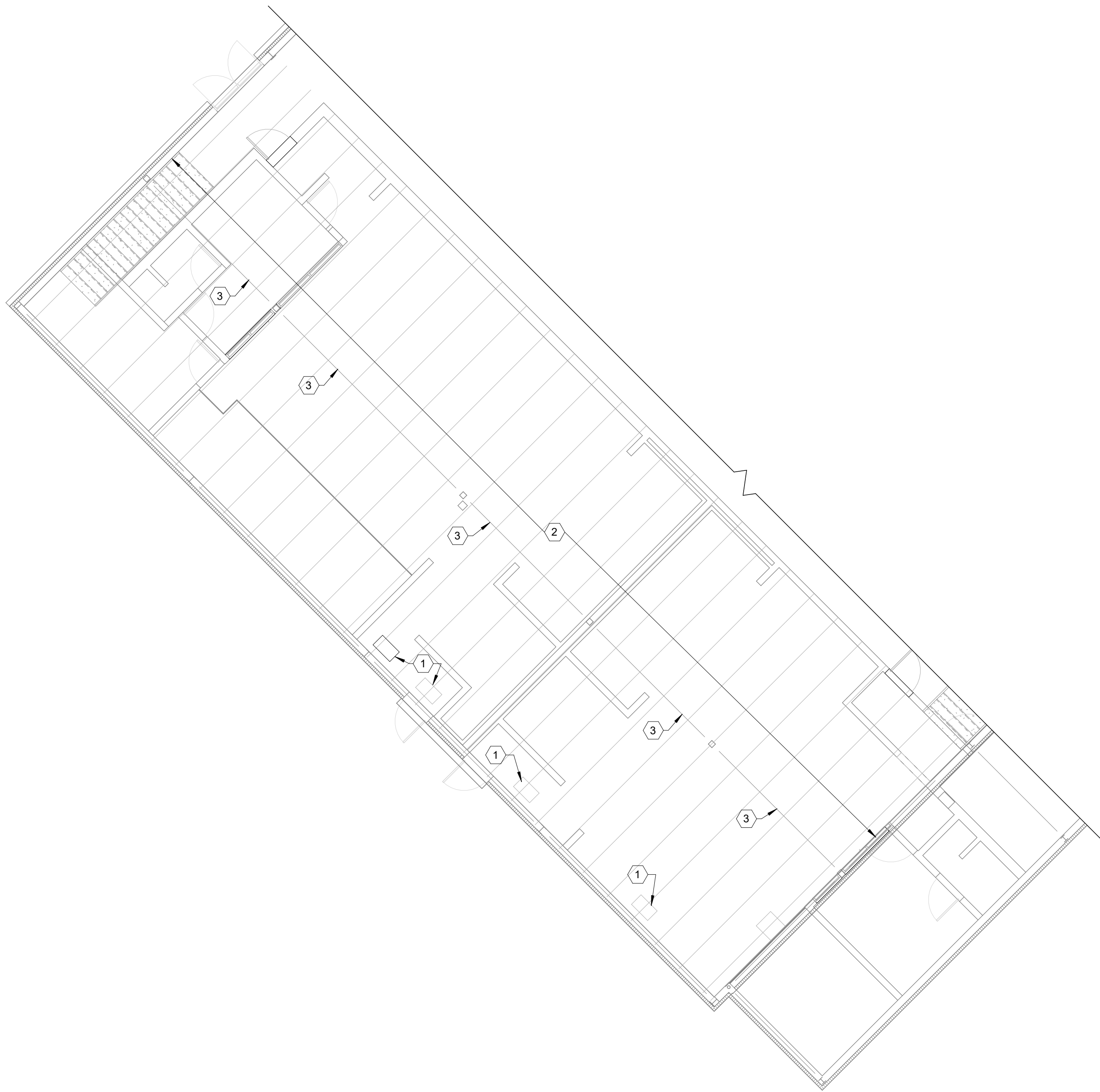
KEYNOTES

1. 4" CONC. GRADE SLAB W/ WWF, 6x6-W1.4xW1.4 IN TOP 1/3 OF SLAB ON 10 MIL VAPOR BARRIER OVER 6" COMPACTED FILL.
2. #4x12" DOWEL @ 30" O.C., GREASE END IN NEW POUR.
3. SLOPE CONCRETE AS SHOWN 1/4" / 1'-0" TOWARDS SHOWER TRENCH DRAIN.

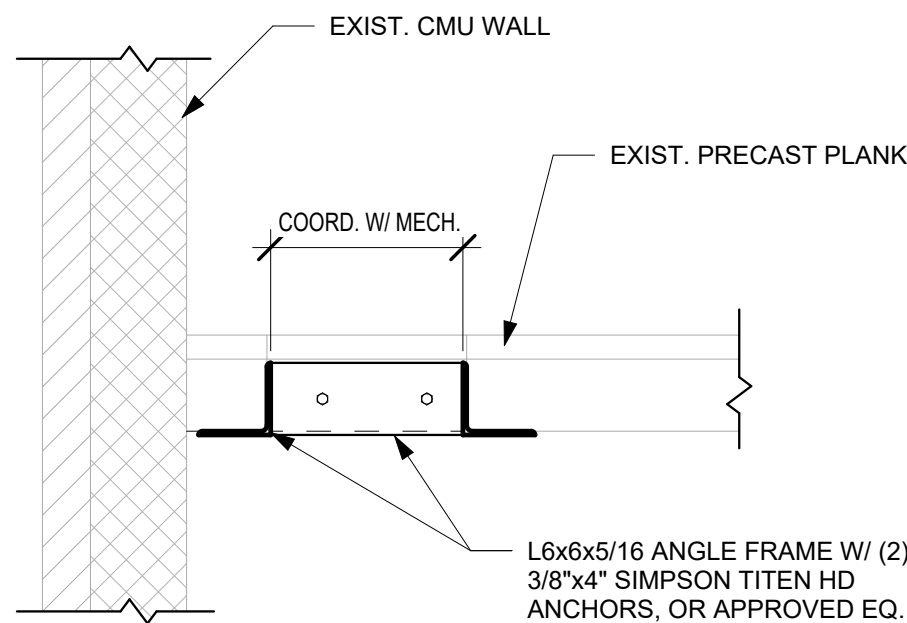




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WEIGHT ROOM FRAMING PLAN
1/8" = 1'-0"



PRECAST PLANK PENETRATION
3/4" = 1'-0"



KEYNOTES



1. MECH. DUCT PENETRATION, SEE PRECAST PLANK PENETRATION DETAIL THIS SHEET. COORD. LOCATION OF DUCT PENETRATIONS W/ PLANK SEAMS. POSITION PENETRATION ON PLANK SEAM.
2. EXIST. PRECAST PLANK.
3. EXIST. FRAMING

KEYPLAN



WEIGHT ROOM FRAMING
PLAN

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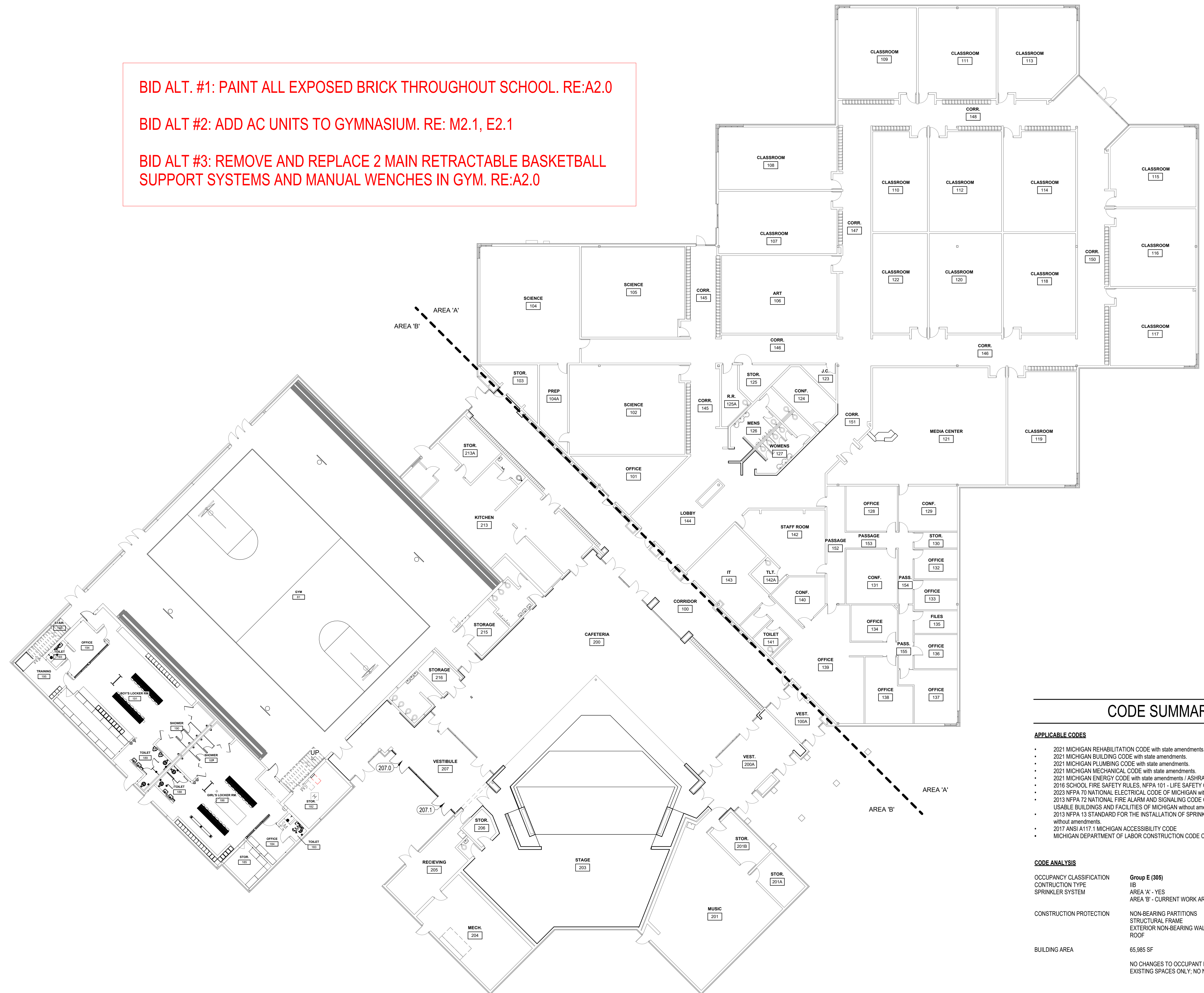
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COLEMAN JR & SR HIGH SCHOOL
2026 RENOVATION PROJECTS
4951 N. LEWIS RD, COLEMAN, MI. 48618

PROJECT NO. 21-949

DESIGNED	BY	NO.	REVISIONS	DATE
DRAWN	-	C	90% REVIEW	08.20.26
CHECKED	-	0	FOR CONSTRUCTION	10.08.26
APPROVED	-			

**BID ALT #3: REMOVE AND REPLACE 2 MAIN RETRACTABLE BASKETBALL
SUPPORT SYSTEMS AND MANUAL WENCHES IN GYM. RE:A2.0**



CODE SUMMARY

APPLICABLE CODES

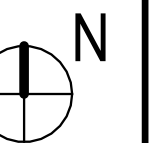
- 2021 MICHIGAN REHABILITATION CODE with state amendments.
- 2021 MICHIGAN BUILDING CODE with state amendments.
- 2021 MICHIGAN PLUMBING CODE with state amendments.
- 2021 MICHIGAN MECHANICAL CODE with state amendments.
- 2021 MICHIGAN ENERGY CODE with state amendments / ASHRAE 90.1
- 2016 SCHOOL FIRE SAFETY RULES, NFPA 101 - LIFE SAFETY CODE 2012 EDITION
- 2023 NFA 70 NATIONAL ELECTRICAL CODE - MICHIGAN with state amendments.
- 2023 NFA 72 NATIONAL FIRE ALARM AND SIGNALING CODE - MICHIGAN ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES OF MICHIGAN without amendments.
- 2013 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS OF MICHIGAN without amendments.
- 2017 ANSI A117.1 - MICHIGAN ACCESSIBILITY CODE
- MICHIGAN DEPARTMENT OF LABOR CONSTRUCTION CODE COMMISSION GENERAL RULES

CODE ANALYSIS

OCCUPANCY CLASSIFICATION	Group E (305)	
CONSTRUCTION TYPE	IIB	
SPRINKLER SYSTEM	AREA 'A' - YES	
	AREA 'B' - CURRENT WORK AREA - NO	
CONSTRUCTION PROTECTION	NON-BEARING PARTITIONS	0HR
	STRUCTURAL FRAME	0HR
	EXTERIOR NON-BEARING WALLS	0HR
	ROOF	0HR
BUILDING AREA	65,985 SF	
NO CHANGES TO OCCUPANT LOAD - RENOVATIONS OF EXISTING SPACES ONLY, NO NEW SEPARATIONS.		

COMPOSITE PLAN

1/16" = 1'-0"



COMPOSITE PLAN & CODE
SUMMARY

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2026 RENOVATION PROJECTS
4951 N. LEWIS RD, COLEMAN, MI. 48618
PROJECT NO. 21-949

PROJECT NO. Z1-949

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INTEGRATED DESIGNS, INC.

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-

DEMO EXISTING TERAZZO FLOORING IN ITS ENTIRETY
PREPARE AREA FOR NEW FLOORING.

REMOVE FLOOR FINISH. LEVEL AND SCARIFY FLOOR IN PREPARATION OF NEW FLOOR FINISH. FINISH REMOVAL TO INCLUDE 16" LOCKER ROOM CONCRETE CURBS.

1. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE EXISTING CONDITIONS REGARDING DEMOLITION AND NEW WORK BEFORE SUBMITTING A BID FOR THIS PROJECT. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER OR OWNERS REPRESENTATIVE.
2. HALF-TONE LINES INDICATE EXISTING CONDITIONS. DASHED LINES INDICATE DEMOLITION WORK. BOLD LINES INDICATE NEW WORK. REFER TO KEYNOTES FOR DESCRIPTION.
3. ANY EXISTING CONDITIONS TO REMAIN THAT ARE DISTURBED ARE TO BE PATCHED/REPAIRED TO MATCH ADJACENT CONDITIONS.
4. REFER ALSO TO ELECTRICAL, MECHANICAL, STRUCTURAL, AND CIVIL DRAWINGS AS APPLICABLE FOR ADDITIONAL SCOPE OF WORK.
5. REFER TO WALL TYPES FOR WALL CONSTRUCTION, MATERIALS, HEIGHTS, ETC.
6. INTERIOR/EXTERIOR DIMENSIONS ARE FROM FACE OF GYPSUM BOARD/C.M.U.
7. ROOM NUMBERING SYSTEM USED IN THIS CONSTRUCTION DOCUMENT IS FOR ARCHITECTURAL PURPOSES. VERIFY ACTUAL ROOM NUMBERING/ LAYOUT AS REQUIRED.
8. PROVIDING AND INSTALLING THE REPLACEMENT OF ANY NEW FINISHES, DOOR ASSEMBLIES, ETC., SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE EXISTING AND PREPARATION FOR NEW WORK IN ANY LOCATION WHERE APPLICABLE. REFERENCE NEW WORK PLANS FOR FULL SCOPE OF WORK.
9. ALL LOOSE FURNITURE TO BE REMOVED AND REINSTALLED BY OWNER.


$$3/16'' = 1'-0''$$

1. DEMO 4" LOCKER CURB DOWN TO FINISH FLOOR. PREPARE FOR NEW WORK.
2. REMOVE LOCKER BENCH AND DISCARD. PREPARE FOR NEW WORK.
3. 16" LOCKER CURB TO REMAIN.
4. DEMO TILE FLOOR AND TILE WALL IN SHOWER ROOMS. PREPARE FOR NEW WORK TILE WALL AND EPOXY FLOOR. RE: PLUMBING DWGS FOR FURTHER SCOPE.
5. REMOVE EXISTING LOCKERS. SALVAGE FOR REINSTALLATION IN NEW WORK.
6. DEMO EXISTING LOCKERS. DISCARD.
7. DEMO DOOR AND FRAME. PREPARE FOR NEW.
8. DEMO SHOWER HEAD UNITS AND STUB PLUMBING BACK INTO WALL. RE: PLUMBING DWGS.
9. GRIND CONCRETE HUMPS DOWN TO MATCH FINISH FLOOR LEVEL.
10. DEMO GLASS AND METAL FRAMING. PREPARE FOR NEW.
11. DEMO EXISTING WOODEN CASEWORK.
12. DEMO 2X4 STUD DIVIDER WALL AND ASSOCIATED COMPONENTS.
13. CUT OUT UPPER SECTION OF CAGE TO ACCOMMODATE NEW MECHANICAL DUCTING. WELD ON NEW ANGLE IRON FRAME TO SUPPORT INTERIOR MESH GRATING. PAINT TO MATCH SURROUNDING EXISTING. RE: MECHANICAL DWGS. EXISTING CAGE CONTAINING DOOR TO REMAIN. RE: INTERIOR ELEVATION 4/AB.0
14. EXISTING BOTTLE FILLER TO REMAIN.

1. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE EXISTING CONDITIONS REGARDING DEMOLITION AND NEW WORK BEFORE SUBMITTING A BID FOR THIS PROJECT. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER OR OWNER'S REPRESENTATIVE.
2. HALF-TONE LINES INDICATE EXISTING CONDITIONS. DASHED LINES INDICATE DEMOLITION WORK. BOLD LINES INDICATE NEW WORK. REFER TO KEYNOTES FOR DESCRIPTION.
3. ANY EXISTING CONDITIONS TO REMAIN THAT ARE DISTURBED ARE TO BE PATCHED/REPAIRED TO MATCH ADJACENT CONDITIONS.
4. REFER ALSO TO ELECTRICAL, MECHANICAL, STRUCTURAL, AND CIVIL DRAWINGS AS APPLICABLE FOR ADDITIONAL SCOPE OF WORK.
5. REFER TO WALL TYPES FOR WALL CONSTRUCTION, MATERIALS, HEIGHTS, ETC.
6. INTERIOR/EXTERIOR DIMENSIONS ARE FROM FACE OF GYPSUM BOARD/C.M.U.
7. ROOM NUMBERING SYSTEM USED IN THIS CONSTRUCTION DOCUMENT IS FOR ARCHITECTURAL PURPOSES. VERIFY ACTUAL ROOM NUMBERING/LAYOUT AS REQUIRED.
8. PROVIDING AND INSTALLING THE REPLACEMENT OF ANY NEW FINISHES, DOOR ASSEMBLIES, ETC., SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE EXISTING AND PREPARATION FOR NEW WORK IN ANY LOCATION WHERE APPLICABLE. REFERENCE NEW WORK PLANS FOR FULL SCOPE OF WORK.
9. ALL LOOSE FURNITURE TO BE REMOVED AND REINSTALLED BY OWNER.

	BY	NO.	REVISIONS	DATE
DESIGNED	-	A	SCHEMATIC DESIGN	04/30/26
DRAWN	-	B	DESIGN DEVELOPMENT	06/18/26
CHECKED	-	C	90% REVIEW	08/20/26
APPROVED	-	0	FOR CONSTRUCTION	10/08/26

DEMOLITION ENLARGED
FLOOR PLAN - LOCKER
ROOMS
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2026 RENOVATION PROJECTS
4951 N. LEWIS RD, COLEMAN, MI. 48618
PROJECT NO. 21-949

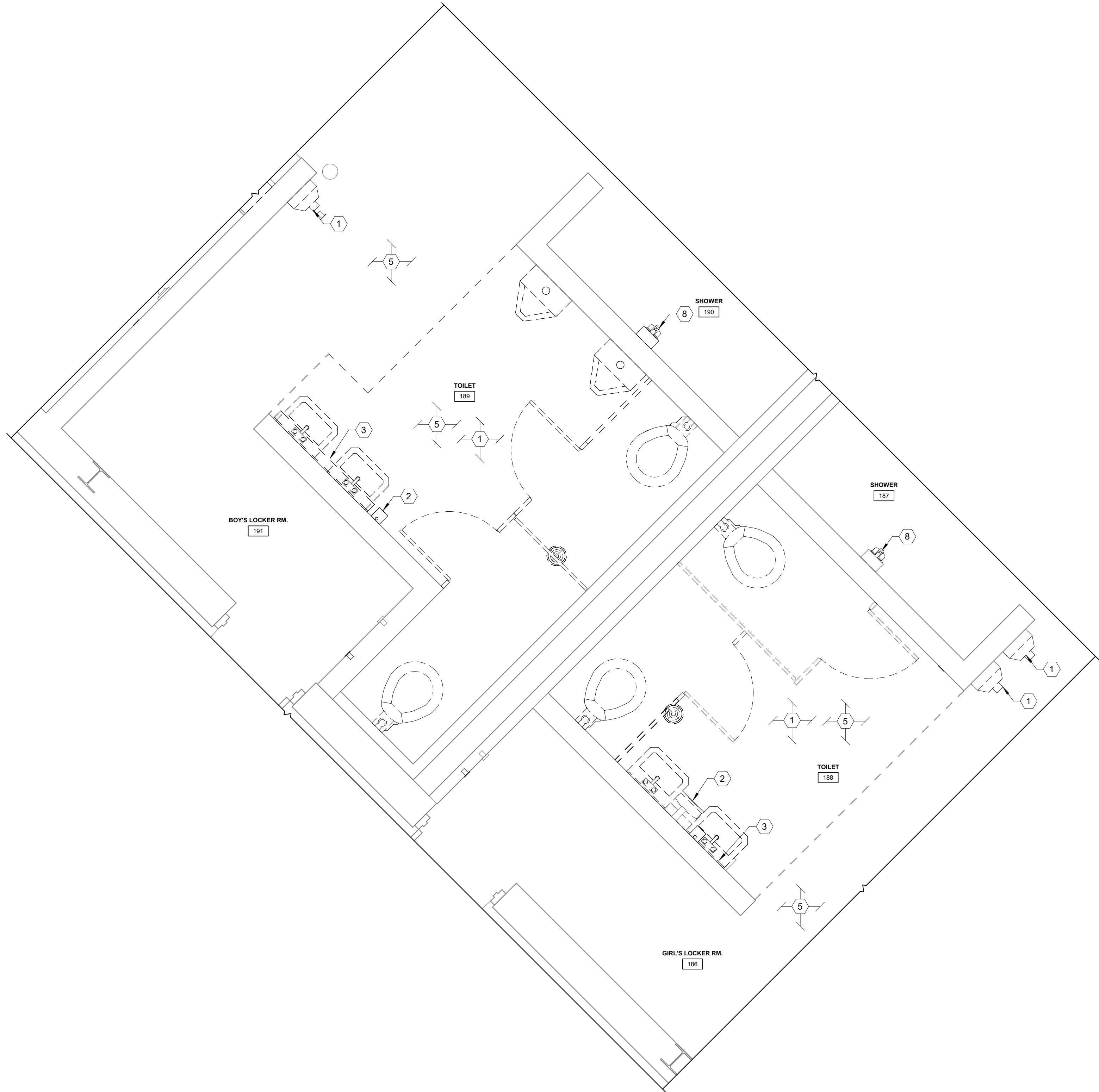
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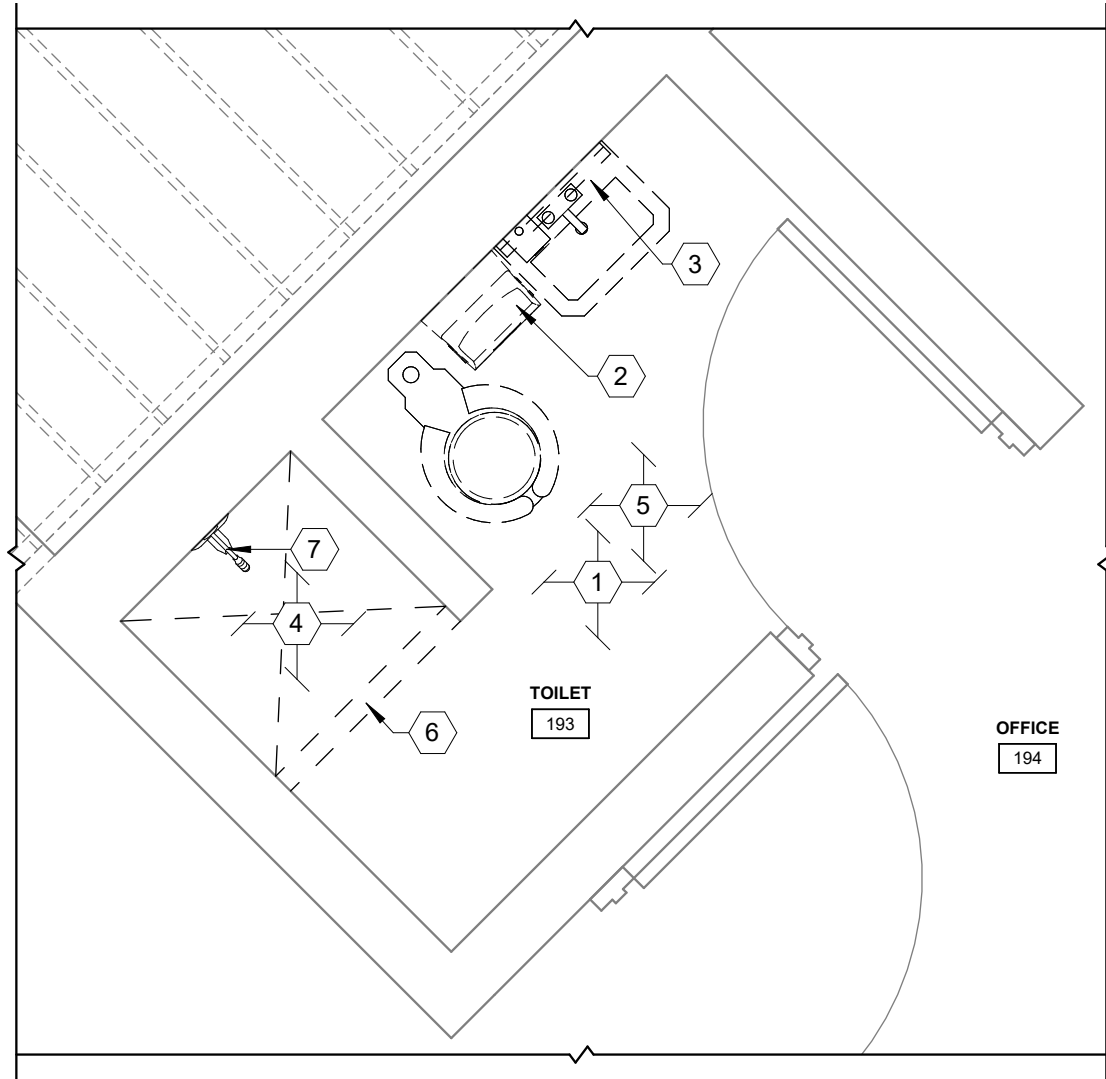
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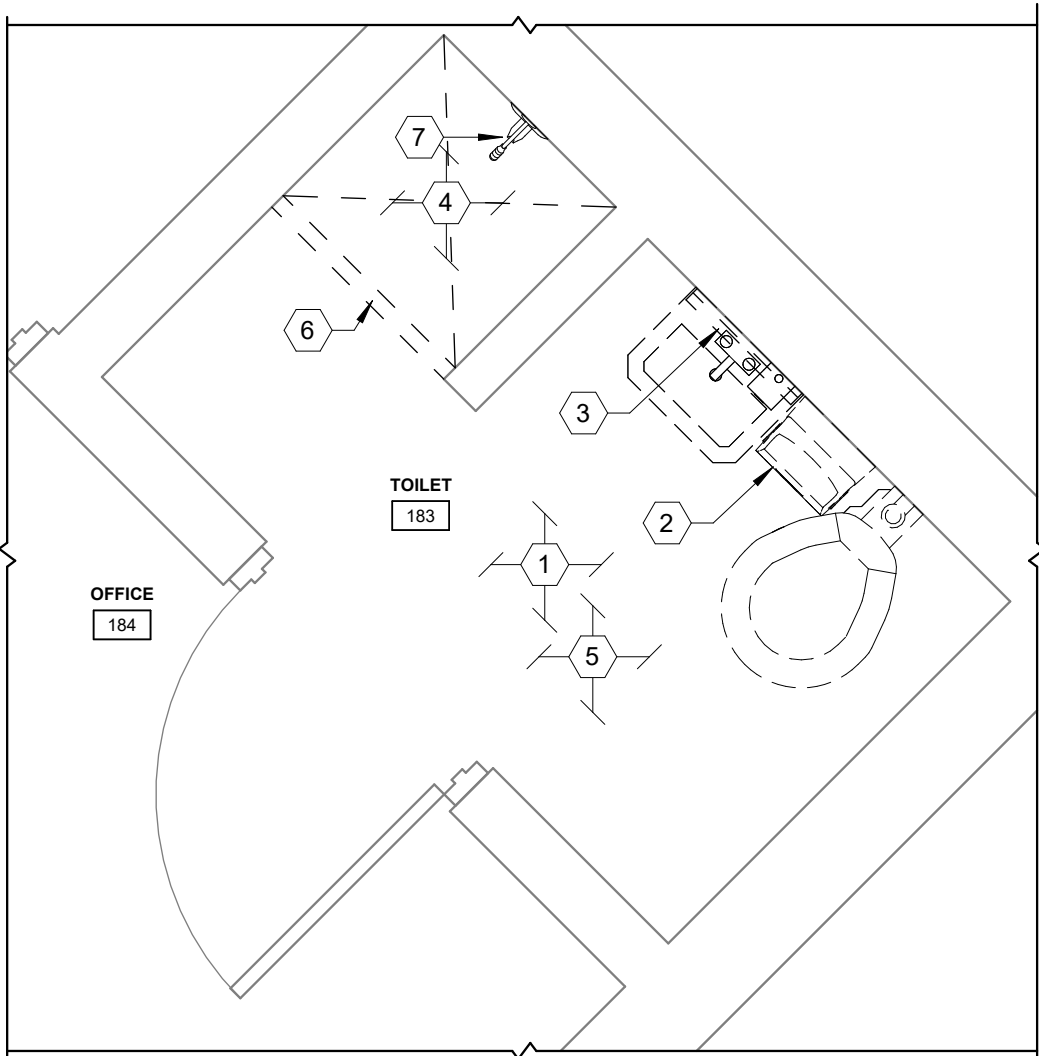
LOCKER ROOM DEMOLITION PLAN

1/2" = 1'-0"



RESTROOM DEMOLITION PLAN - ROOM 193

1/2" = 1'-0"



RESTROOM DEMOLITION PLAN - ROOM 183

1/2" = 1'-0"



KEYNOTES



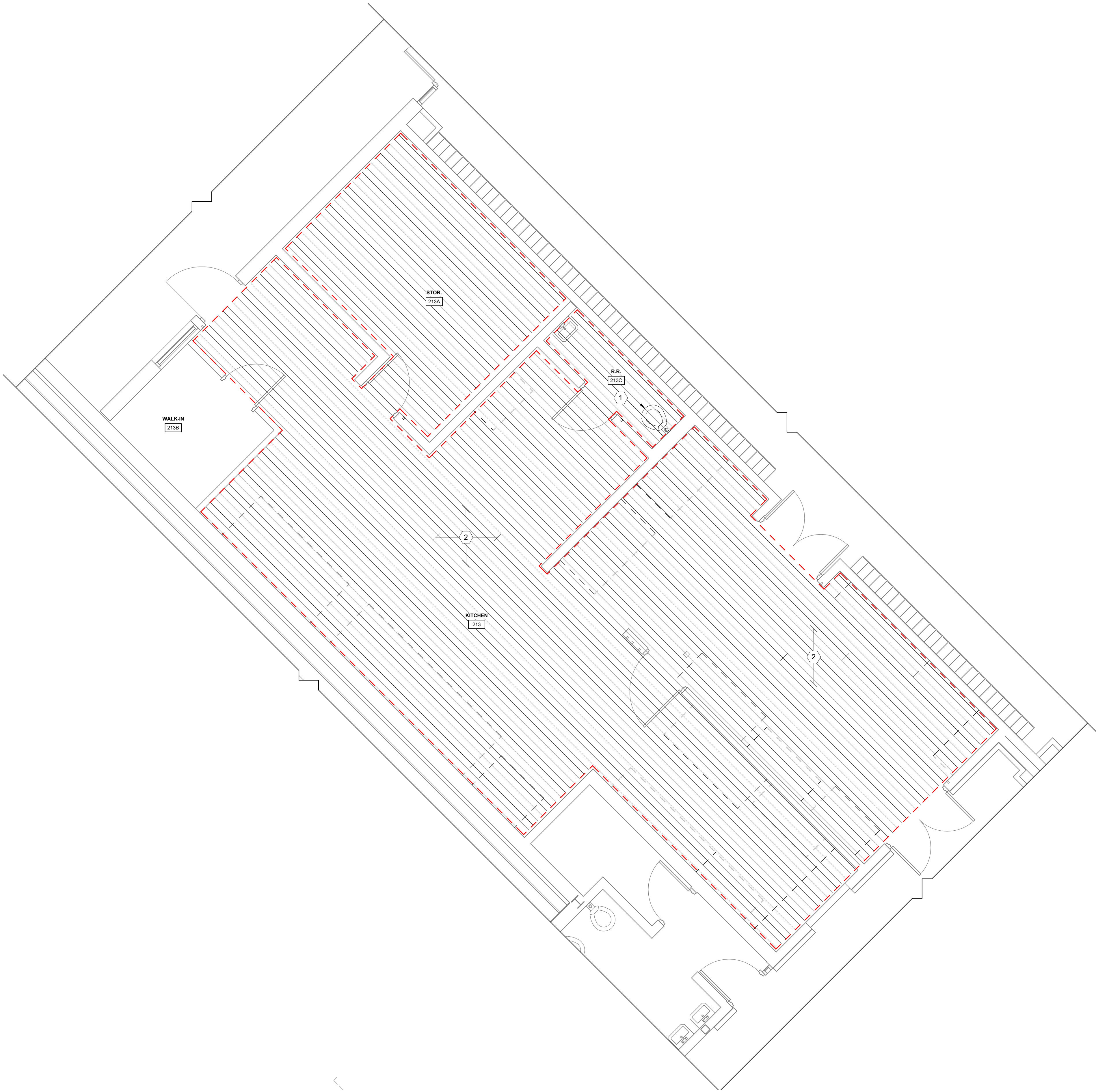
1. REMOVE EXISTING TOILET FIXTURES, URINALS, ASSOCIATED ACCESSORIES, ELECTRIC HAND DRYERS, LAVATORIES AND GRAB BARS. DISCARD. PREPARE FOR NEW WORK. RE: NEW WORK PLANS AND ROOM FINISH SCHEDULE.
2. SALVAGE SOAP DISPENSER AND PAPER TOWEL DISPENSER FOR REINSTALLATION IN NEW WORK.
3. DEMO EXISTING METAL SHELF AND MIRROR. DISCARD.
4. DEMO ALL FLOOR AND WALL TILE IN SHOWER AREA. PREPARE FOR NEW.
5. DEMO FLOOR AND BASE TILE THROUGHOUT. PREPARE FOR NEW WORK EPOXY FLOOR. RE: PLUMBING DWGS FOR FURTHER SCOPE.
6. DEMO CEILING MOUNTED SHOWER CURTAIN. DISCARD.
7. DEMO EXISTING SHOWER HEAD. PREPARE FOR NEW.
8. DEMO SHOWER HEAD UNITS AND STUB PLUMBING BACK INTO WALL. RE: PLUMBING DWGS.

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE EXISTING CONDITIONS REGARDING DEMOLITION AND NEW WORK BEFORE SUBMITTING A BID FOR THIS PROJECT. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER OR OWNERS REPRESENTATIVE.
2. HALF-TONE LINES INDICATE EXISTING CONDITIONS. DASHED LINES INDICATE DEMOLITION WORK. BOLD LINES INDICATE NEW WORK. REFER TO KEYNOTES FOR DESCRIPTION.
3. ANY EXISTING CONDITIONS TO REMAIN THAT ARE DISTURBED ARE TO BE PATCHED/REPAIRED TO MATCH ADJACENT CONDITIONS.
4. REFER ALSO TO ELECTRICAL, MECHANICAL, STRUCTURAL, AND CIVIL DRAWINGS AS APPLICABLE FOR ADDITIONAL SCOPE OF WORK.
5. REFER TO WALL TYPES FOR WALL CONSTRUCTION, MATERIALS, HEIGHTS, ETC.
6. INTERIOR/EXTERIOR DIMENSIONS ARE FROM FACE OF GYPSUM BOARD/C.M.U.
7. ROOM NUMBERING SYSTEM USED IN THIS CONSTRUCTION DOCUMENT IS FOR ARCHITECTURAL PURPOSES. VERIFY ACTUAL ROOM NUMBERING LAYOUT AS REQUIRED.
8. PROVIDING AND INSTALLING THE REPLACEMENT OF ANY NEW FINISHES, DOOR ASSEMBLIES, ETC., SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE EXISTING AND PREPARATION FOR NEW WORK IN ANY LOCATION WHERE APPLICABLE. REFERENCE NEW WORK PLANS FOR FULL SCOPE OF WORK.
9. ALL LOOSE FURNITURE TO BE REMOVED AND REINSTALLED BY OWNER.

KEYPLAN





DEMOLITION FLOOR PLAN - KITCHEN
1/4" = 1'-0"

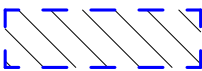


KEYNOTES

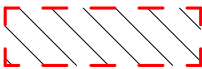


1. REMOVE TOILET IN PREPARATION FOR NEW FLOORING WORK. SALVAGE FOR REINSTALLATION.
2. LOOSE FURNITURE TO BE REMOVED PRIOR TO DEMO.

FLOOR LEGEND



DEMO EXISTING TERRAZZO FLOORING IN ITS ENTIRETY. PREPARE AREA FOR NEW FLOORING.

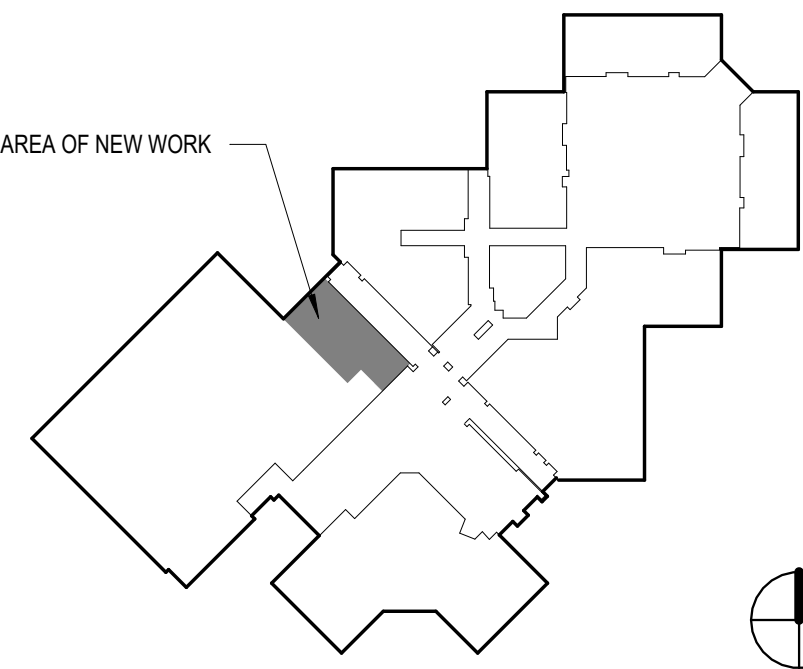


REMOVE FLOOR FINISH, LEVEL AND SCARIFY FLOOR IN PREPARATION OF NEW FLOOR FINISH. FINISH REMOVAL TO INCLUDE 16" LOCKER ROOM CONCRETE CURBS.

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4. REFER ALSO TO ELECTRICAL, MECHANICAL, STRUCTURAL, AND CIVIL DRAWINGS AS APPLICABLE FOR ADDITIONAL SCOPE OF WORK.
5. REFER TO WALL TYPES FOR WALL CONSTRUCTION, MATERIALS, HEIGHTS, ETC.
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9. ALL LOOSE FURNITURE TO BE REMOVED AND REINSTALLED BY OWNER.

KEYPLAN



MARKETTE OFFICE
107 N BRAGA AVENUE
BRIGHTON, MI 48103
PHONE (800)224-4600 FAX (800)224-3524

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ARCHITECTURE
ENGINEERING
CONSULTING

INTEGRATED DESIGNS, INC.

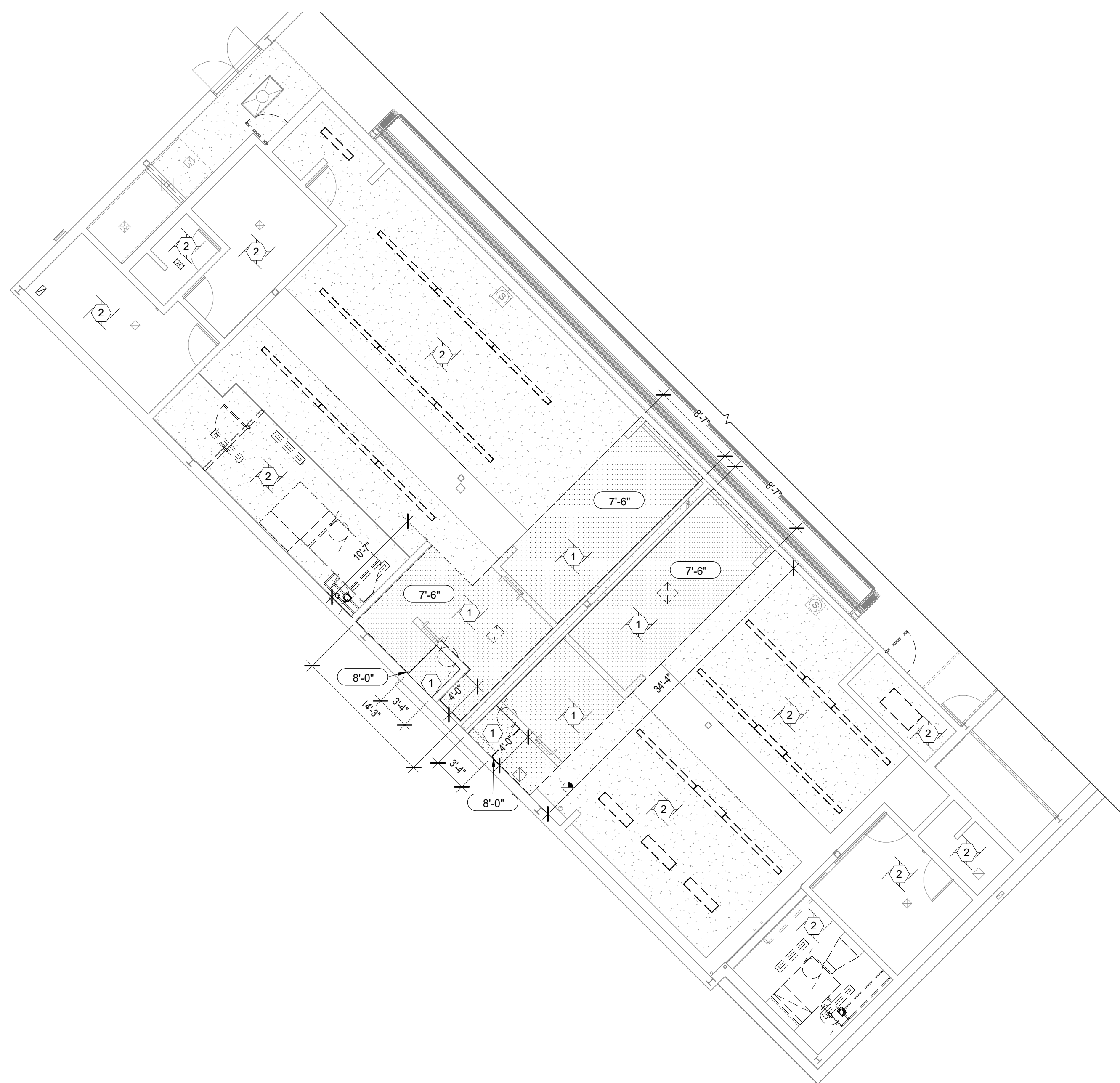
COLEMAN JR & SR HIGH SCHOOL
2026 RENOVATION PROJECTS
4951 N. LEWIS RD, COLEMAN, MI. 48618
PROJECT NO. 21-949

NO.	REVISIONS	DATE
B	DESIGN DEVELOPMENT	06.18.26
C	90% REVIEW	08.20.26
D	FOR CONSTRUCTION	10.08.26

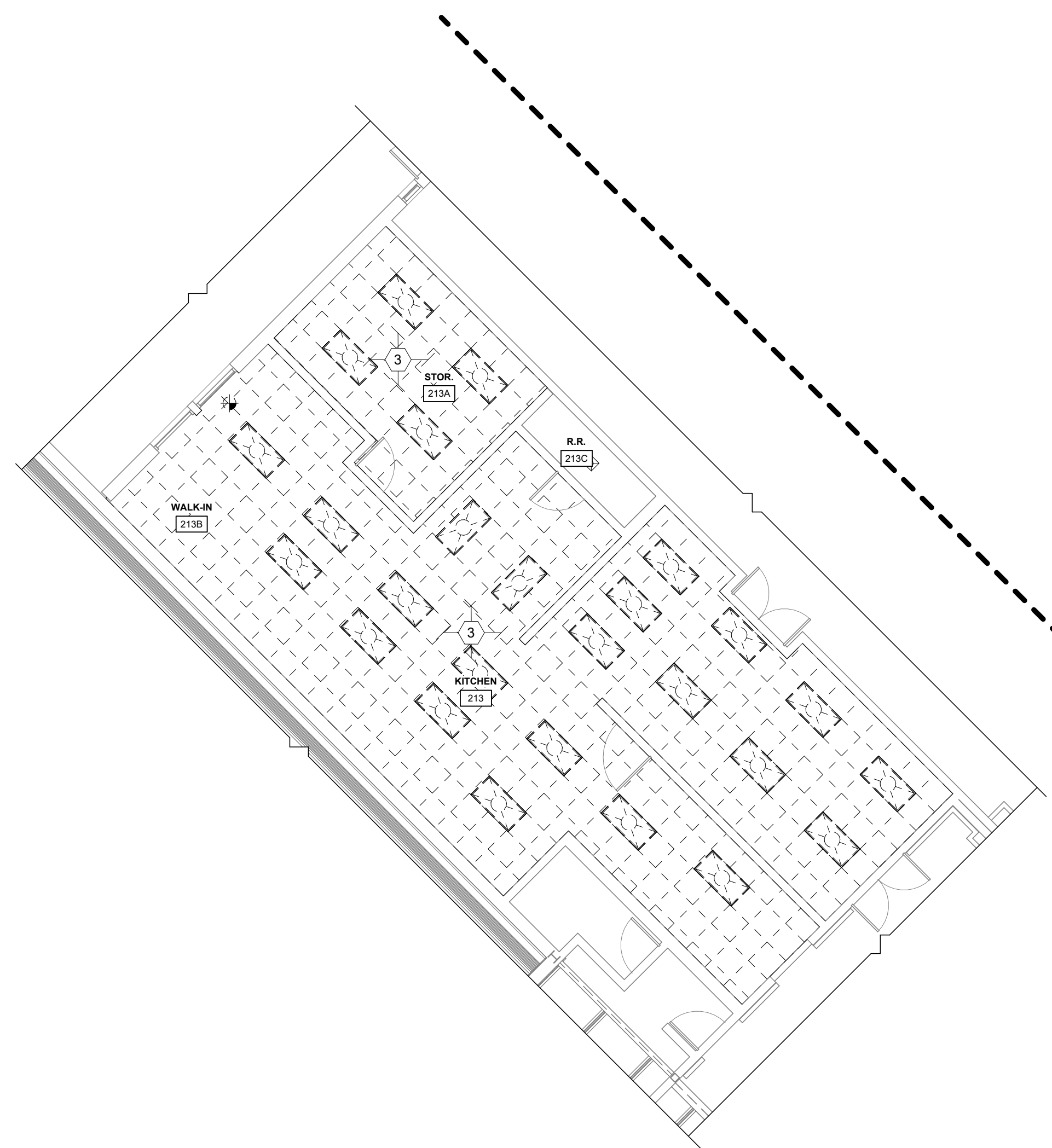
DESIGNED
DRAWN
CHECKED
APPROVED

DEMOLITION ENLARGED
KITCHEN FLOOR PLANS
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A1.3



DEMOLITION REFLECTED CEILING PLAN - LOCKER ROOMS

$$\frac{1}{8}'' = 1'-0''$$


DEMOLITION REFLECTED CEILING PLAN - KITCHEN

$$\frac{1}{8}'' = 1'-0''$$

KEYNOTES

1. DEMO GYP CEILING AND ASSOCIATED COMPONENTS. RE: MECHANICAL & ELECTRICAL DWGS.
2. DEMO CEILING MOUNTED LIGHTING, DISCARD. RE: ELECTRICAL DWGS.
3. DEMO LAY-IN CEILING AND GRID. PREPARE FOR NEW WORK.
- 4.

SYMBOL LEGEND

-  EXISTING 2'x2' LAY-IN ACOUSTICAL CEILING TO REMAIN.

 EXISTING GYPSUM BOARD CEILING/SOFFIT TO REMAIN.

 EXISTING VENTED ALUMINUM SOFFIT TO REMAIN.

  EXISTING MECHANICAL DIFFUSER TO REMAIN.

 EXISTING LIGHT FIXTURE TO REMAIN.

 EXISTING CEILING MOUNTED EXIT LIGHT TO REMAIN.

 EXISTING RECESSED CAN LIGHT TO REMAIN.

 LAY-IN ACOUSTICAL CEILING TO BE REMOVED.

 GYPSUM BOARD CEILING/SOFFIT TO BE REMOVED.

 VENTED ALUMINUM SOFFIT TO BE REMOVED.

 MECHANICAL DIFFUSER TO BE REMOVED.

 LIGHT FIXTURE TO BE REMOVED.

 CEILING MOUNTED EXIT LIGHT TO BE REMOVED.

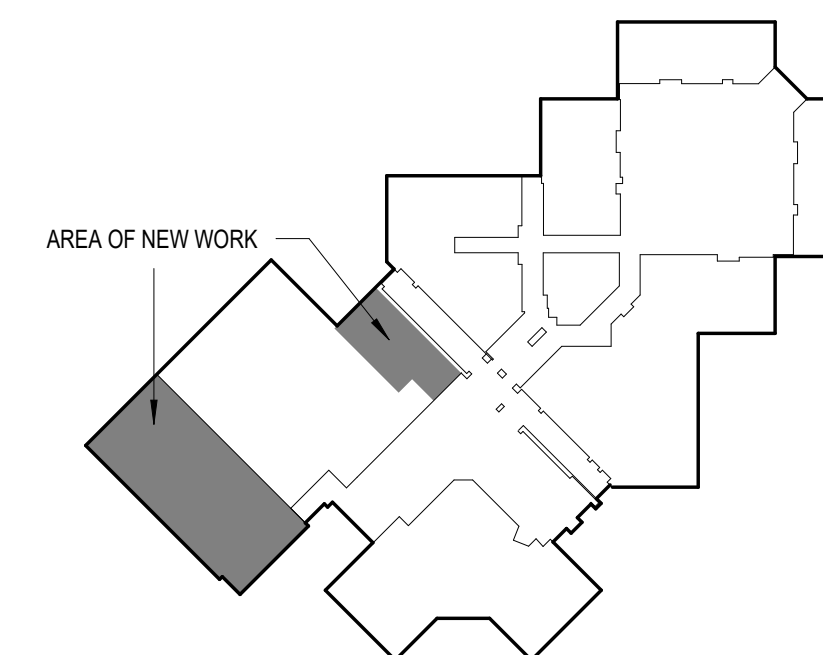
 RECESSED CAN LIGHT TO BE REMOVED.

 CEILING HEIGHT.

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KEYPLAN





NEW WORK FLOOR PLAN

3/32" = 1'-0"



KEYNOTES



1. PAINT ALL EXISTING CORRIDOR BRICK. VERIFY ALL LOCATIONS.
2. EXISTING GYM FLOOR ASSEMBLY TO BE SANDED DOWN FOR REFINISHING. CONTRACTOR SHALL DOCUMENT EXISTING GAME LINES FOR NEW STRIPING. AND IN FLOOR VOLLEYBALL STANDARD SLEEVE LOCATIONS AND SIMILAR RECESSED COMPONENTS SHALL BE PROTECTED. BLEACHERS TO REMAIN. CONTRACTOR TO LOCATE SOFT SPOTS IN FLOORING AND PROVIDE ALLOWANCE TO REPAIR ACCORDINGLY.
3. NEW CONCRETE ENTRANCE SLAB OVER EXISTING SUPPORT FOUNDATION. RE: DETAILS.
4. NEW STOREFRONT SYSTEM AND DOORS. RE: DOOR SCHEDULE. SALVAGED CARD READER TO BE REINSTALLED. RE: ELECTRICAL DWGS.
5. NEW ELECTRIC BACKBOARD WINCH AND RETRACTABLE BACKBOARD STRUCTURAL SYSTEM. REINSTALL SALVAGED BACKBOARD AND HOOP AFTER INSTALLATION OF NEW SYSTEM. RE: SPECIFICATIONS.
6. REINSTALL ALL REMOVED SALVAGED VENTED BASE AROUND PERIMETER.

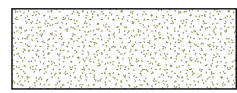
FINISH NOTES

1. TRANSITION AND REDUCER STRIPS TO MATCH COLOR OF FLOORING, UNLESS OTHERWISE NOTED.
2. TRANSITION ALL FLOOR FINISHES AT CENTER OF DOOR, UNLESS OTHERWISE NOTED.
3. WHERE TWO OR MORE FINISHES APPEAR IN THE FINISH SCHEDULE FOR ONE SURFACE, REFER TO PLANS, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION.
4. RECESSED WIREWAYS, ACCESS PANELS, GRILLES, FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, AND ALL OTHER SUCH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DEVICES SHALL BE FINISHED TO MATCH ADJACENT WALL OR CEILING SURFACE, UNLESS OTHERWISE NOTED.
5. ALL PAINT TO BE LOW VOC.

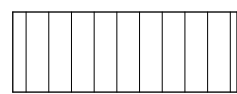
FINISH LEGEND



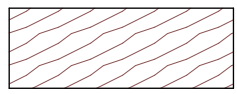
CPT-1: WALK-OFF CARPET TILE; PATCRAFT BEYOND THE DOOR: PRADO, 00595 OBSIDIAN



EPX-1: FLAKE. FINAL COLOR SELECTION TO BE COORDINATED WITH OWNER & ARCHITECT



GER-1: GERFLOR GT1 MAX LOCKING FLOATING PANEL / 3x3 EPOXY PANELS. FINAL COLOR SELECTION TO BE COORDINATED WITH OWNER & ARCHITECT



HSF-1: REFINISHED HARDWOOD SPORTS FLOOR SYSTEM

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11. SEE DEMOLITION PLANS FOR GENERAL ROOM DIMENSIONS.

KEYPLAN

AREA OF NEW WORK



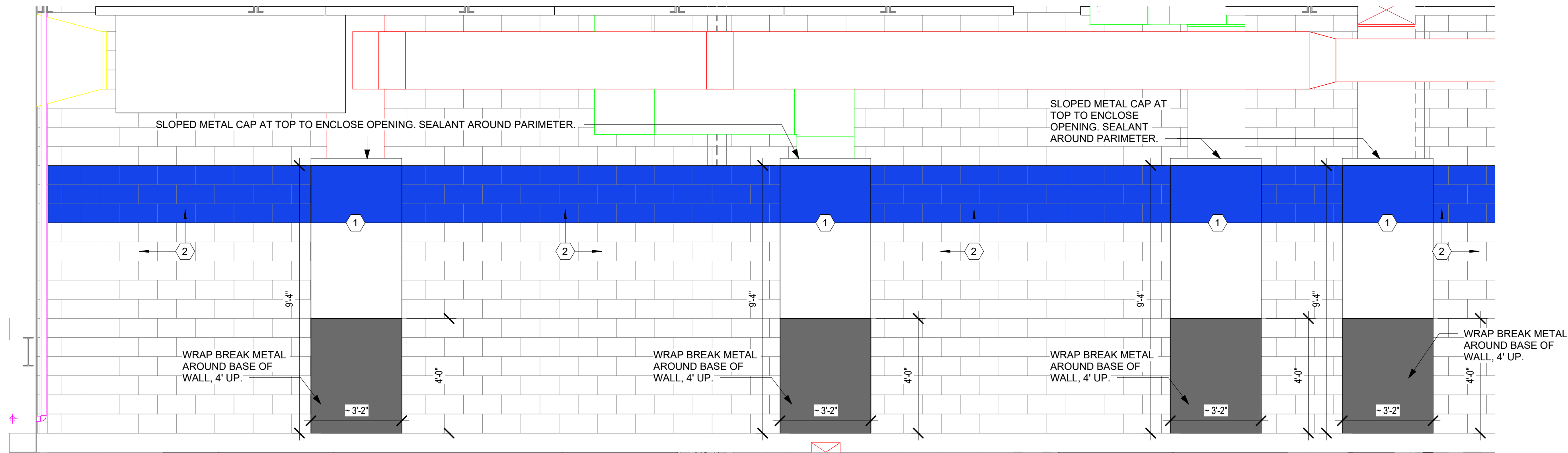


- ## GENERAL NOTES

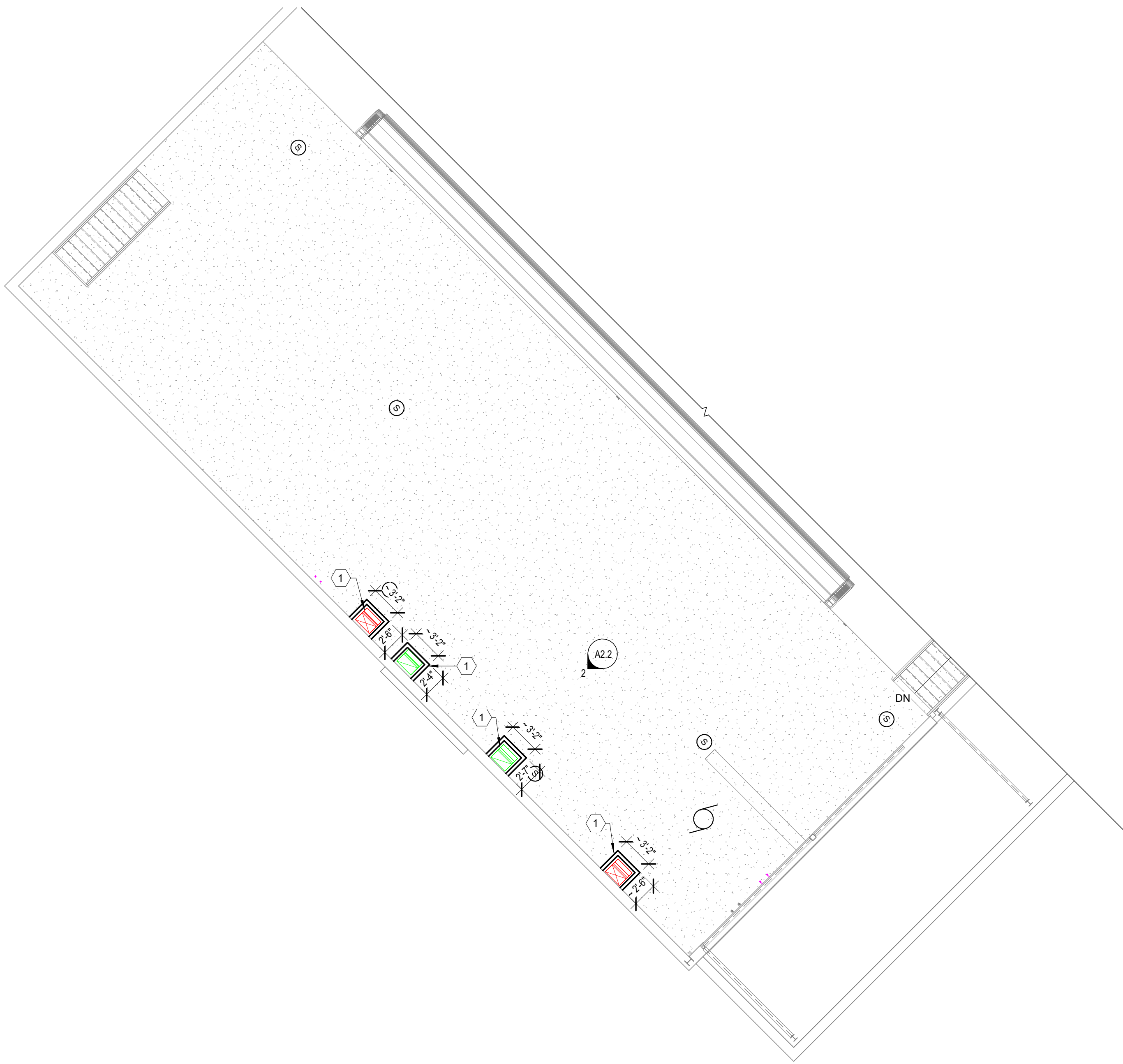
- ## KEYPLAN



\\fs1\Users\jfrank\Documents\Drawings\Document\Coleman High School - 2026 Locker Room
20260605.dwg



2 GYM MEZZANINE ELEVATION
3/8" = 1'-0"



1 NEW WORK FLOOR PLAN - GYM MEZZANINE
1/8" = 1'-0"



KEYNOTES

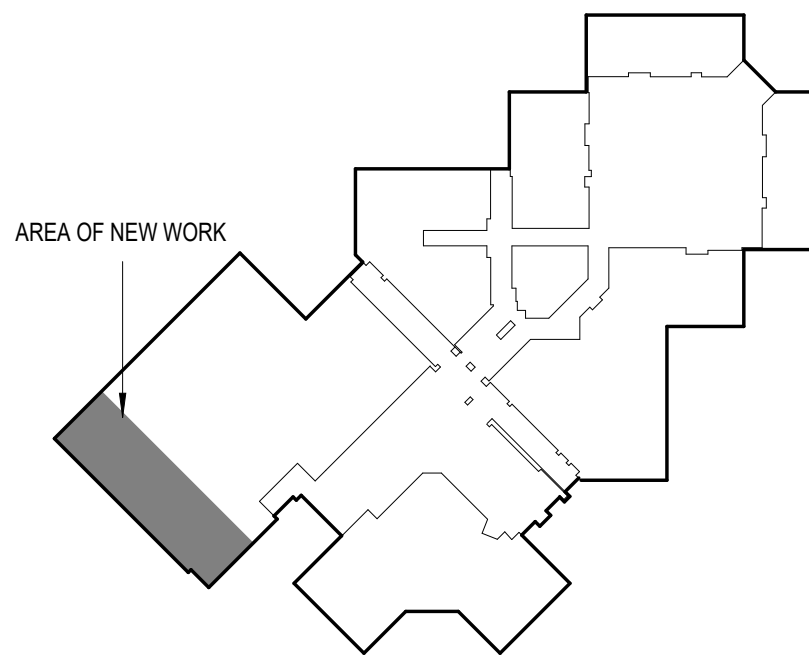


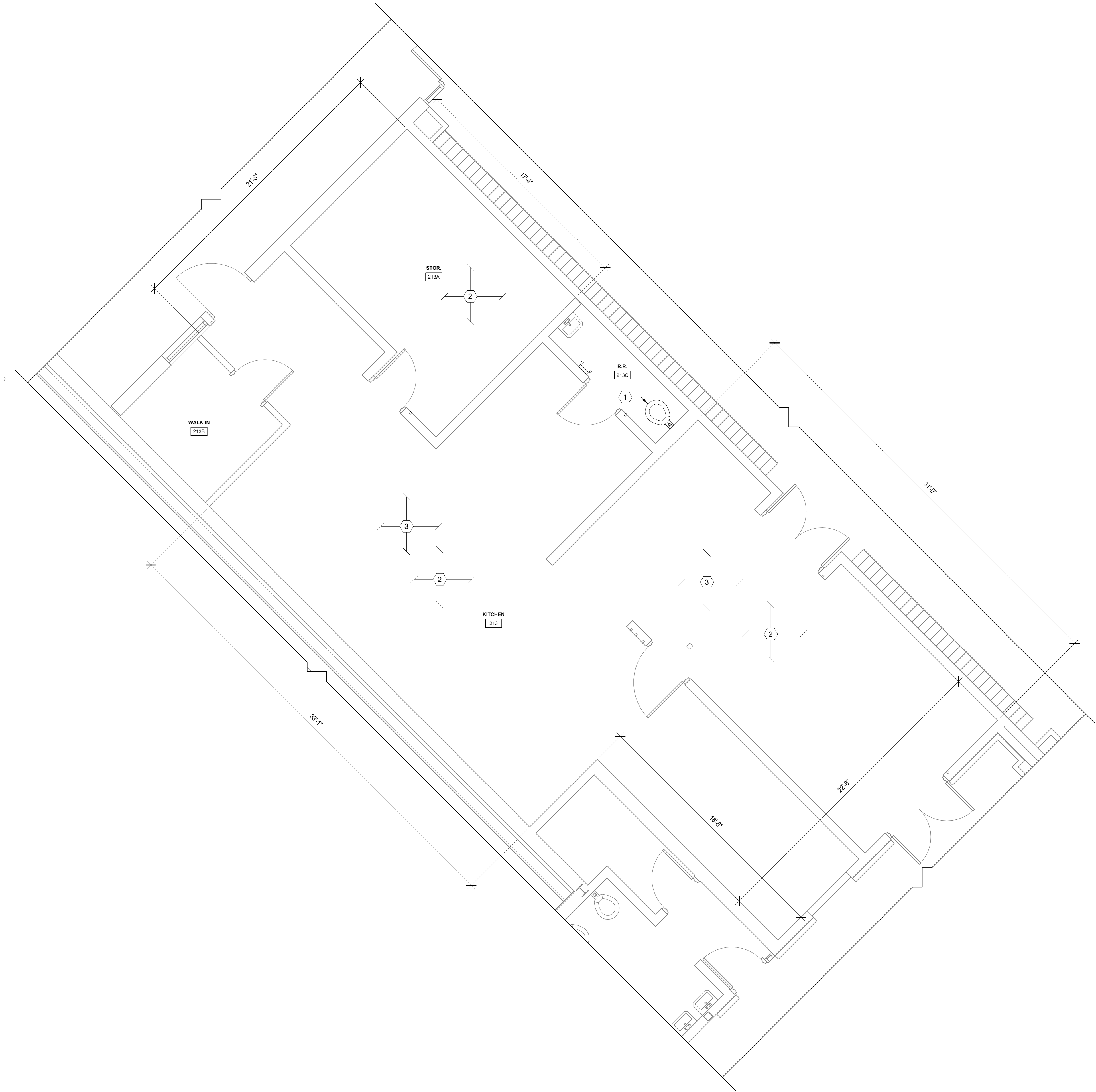
- NEW 9' - 4" TALL METAL STUD WALL WITH HIGH IMPACT GYP TO COVER NEW MECHANICAL DUCTING. INCLUDE METAL TRIM BREAK METAL UP 4". PAINT TO MATCH EXISTING SURROUNDING PAINT.
- EXISTING PAINT TO BE MATCHED.

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KEYPLAN





NEW WORK FLOOR PLAN - KITCHEN

1/4" = 1'-0"



KEYNOTES

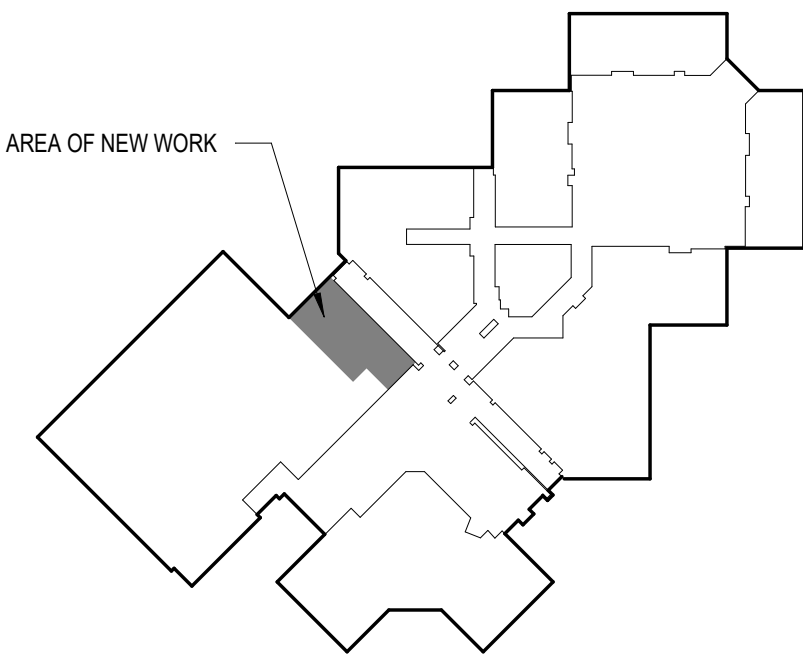


1. REINSTALL SALVAGED TOILET AFTER COMPLETION OF NEW EPOXY FLOORING.
2. NEW FLOORING, CEILING AND PAINT THROUGHOUT. RE: ROOM FINISH SCHEDULE.
3. ADJUST FLOOR DRAINS THROUGHOUT AS REQUIRED TO MATCH NEW EPOXY FINISH FLOOR LEVEL.

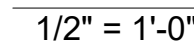
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KEYPLAN



BY	DESIGNED DRAWN	NO.	REVISIONS	DATE
-	-	A	SCHEMATIC DESIGN	04.30.26
-	-	B	DESIGN DEVELOPMENT	06.18.26
-	-	C	90% REVIEW	08.20.26
-	-	D	FOR CONSTRUCTION	10.08.26



1. NEW FLOOR MOUNTED TOILET. RE: PLUMBING PLANS.
2. NEW WALL MOUNTED LAVATORY. RE: PLUMBING, SPECIFICATIONS.
3. NEW TOILET/URINAL PARTITION. RE: SPECIFICATIONS.
4. NEW 18" X 36" MIRROR. RE: SPECIFICATIONS.
5. 42" GRAB BAR AT 34" TO TOP OF BAR. PROVIDE BLOCKING.
6. 36" GRAB BAR AT 34" TO TOP OF BAR. PROVIDE BLOCKING.
7. 18" LONG VERTICAL BAR AT 40" A.F.F. TO BOTTOM OF BAR. PROVIDE BLOCKING.
8. TOILET PAPER DISPENSER. PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
9. SANITARY NAPKIN RECEPTACLE. PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
10. REINSTALL SALVAGED SOAP DISPENSER.
11. REINSTALL PAPER TOWEL DISPENSER.
12. NEW URINAL. RE: PLUMBING DWGS.
13. NEW ELECTRIC HAND DRYER. HANG NEW UNITS TO BARRIER FREE HEIGHTS. COVER AND EXISTING REMAINING HOLES FROM REMOVAL OF OLD DRYER WITH STAINLESS COVERS. RE ELECTRICAL DWGS.
14. NEW 4" X 18" SOLID SURFACE COUNTERTOP.
15. NEW EPOXY FLOORING WITH 4" EPOXY BASE UP WALL. RE: ROOM SCHEDULE.
16. NEW SHOWER CURTAIN. RE: SPECIFICATIONS.
17. PAINT DOOR AND FRAME.
18. NEW TILE FLOOR, BASE AND WALL UP TO CEILING.
19. NEW SHOWER HEAD. RE: PLUMBING DWGS.
20. NEW 4" X 3'-8" SOLID SURFACE COUNTERTOP.

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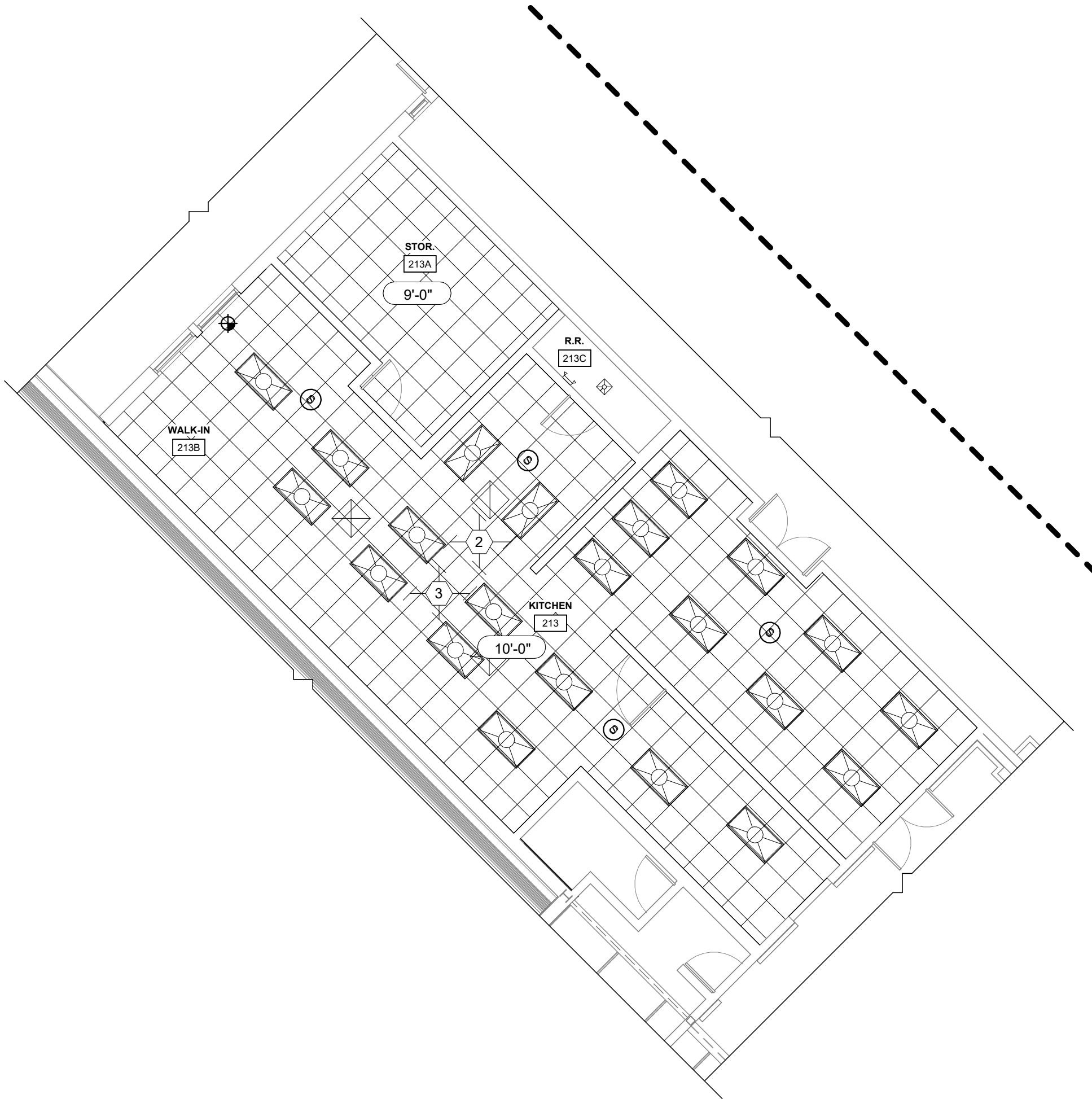
KEYPLAN





NEW WORK REFLECTED CEILING PLAN -
LOCKER ROOMS

1/8" = 1'-0"



NEW WORK REFLECTED CEILING PLAN -
KITCHEN

1/8" = 1'-0"

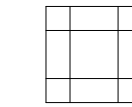


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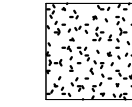


1. NEW MOISTURE RESISTANT GYP. BOARD CEILING.
2. NEW LIGHTING, RE: ELECTRICAL DWGS.
3. NEW CEILING GRID AND PANELS. RE: A9.0 FOR GRID HANGING DETAIL.
- 4.

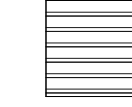
SYMBOL LEGEND



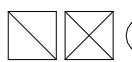
NEW 2'X2' LAY-IN ACOUSTICAL CEILING.



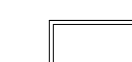
NEW GYPSUM BOARD CEILING/SOFFIT.



NEW VENTED ALUMINUM SOFFIT.



NEW MECHANICAL DIFFUSER.



NEW LIGHT FIXTURE.



NEW CEILING MOUNTED EXIT LIGHT.



NEW RECESSED CAN LIGHT.

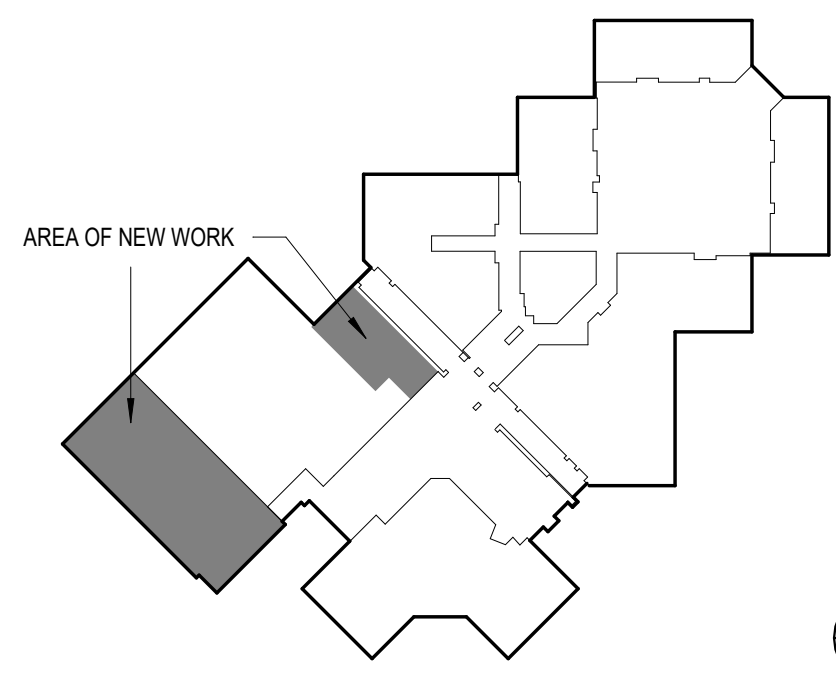


CEILING HEIGHT.

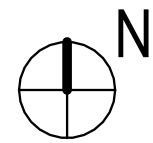
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7. COORDINATE NEW CEILING WORK AS REQUIRED FOR NEW MECHANICAL AND ELECTRICAL LIGHTING WORK IN EXISTING BUILDING. RE: MECHANICAL AND ELECTRICAL PLANS.
8. CENTER ACOUSTICAL TILE/METAL CEILING GRID SYSTEM WITHIN EACH ROOM, UNLESS NOTED OTHERWISE.
9. VERIFY CEILING HEIGHTS IN EXISTING BUILDING AND MATCH EXISTING CEILING HEIGHT AT NEW CEILING WORK OR AS DIRECTED ON PLANS.

KEYPLAN



NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.30.26
B	DESIGN DEVELOPMENT	06.18.26
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$$1/16'' = 1'-0''$$

-

1. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE EXISTING CONDITIONS REGARDING DEMOLITION AND NEW WORK BEFORE SUBMITTING A BID FOR THIS PROJECT. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER OR OWNERS REPRESENTATIVE.
2. HALF-TONE LINES INDICATE EXISTING CONDITIONS. DASHED LINES INDICATE DEMOLITION WORK. BOLD LINES INDICATE NEW WORK. REFER TO KEYNOTES FOR DESCRIPTION.
3. ANY EXISTING CONDITIONS TO REMAIN THAT ARE DISTURBED ARE TO BE PATCHED/REPAIRED TO MATCH ADJACENT CONDITIONS.
4. LINES INDICATING HIGH POINTS, CANTS, ETC. ARE FOR GENERAL LAYOUT ONLY. ALL ROOFS SHALL PITCH TO ROOF DRAINS.
5. PROVIDE MANUFACTURER'S STANDARD ROOF TERMINATION WHEN DETAIL IS NOT AVAILABLE IN THIS PLAN SET. ALL TERMINATIONS TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
6. ALL MECHANICAL ITEMS ARE SHOWN FOR GENERAL LAYOUT ONLY. FIELD VERIFY MECHANICAL DRAWINGS TO VERIFY EXACT SIZE AND LOCATION AND ANY ADDITIONAL SCOPE OF WORK NOT SHOWN ON THIS DRAWING.

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		BY	NO.	REVISIONS	DATE
DESIGNED	-		C	90% REVIEW	08.20.26
DRAWN	-		0	FOR CONSTRUCTION	10.08.26
CHECKED	-				
APPROVED	-				

COLEMAN JR & SR HIGH SCHOOL
2026 RENOVATION PROJECTS
4951 N. LEWIS RD, COLEMAN, MI. 48618
PROJECT NO. 21-949

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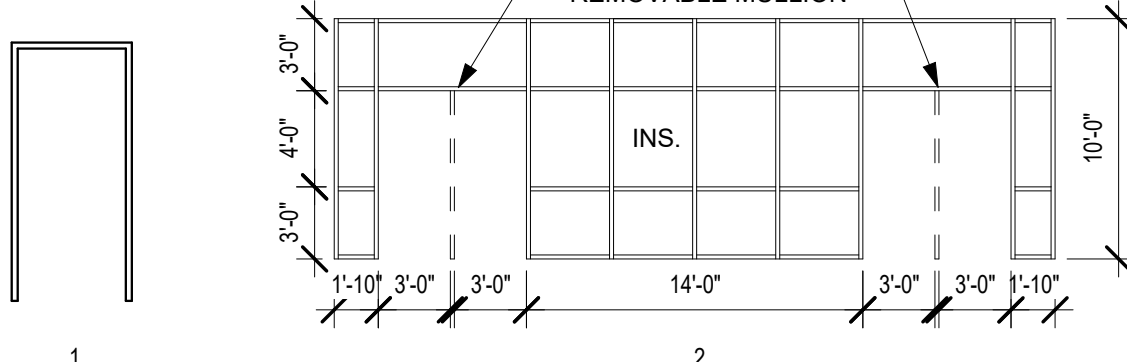
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DOOR NUMBER	FRAME		DOOR				SIZE		HARDWARE SET	DETAIL REFERENCE				REMARKS
	MATERIAL	TYPE	MATERIAL	TYPE	FIRE RATING	WIDTH	HEIGHT	HEAD		JAMB	THRESHOLD	MULLION		
186.0	HM	1	HM	1		3'-0"	7'-0"		6/A9.0	6/A9.0	6/A9.0	6/A9.0	1	
191.0	HM	1	HM	1		3'-0"	7'-0"		6/A9.0	6/A9.0	6/A9.0	6/A9.0	1	
207.1	AL	2	AL	2		6'-0"	7'-0"		5/A9.0	5/A9.0	5/A9.0	5/A9.0	1, 2, 3	
207.0	AL	2	AL	2		6'-0"	7'-0"		5/A9.0	5/A9.0	5/A9.0	5/A9.0	1, 2	

DOOR TYPES DOOR FRAMES



REMARKS TO DOOR SCHEDULE

1.	FIELD VERIFY DOOR/FRAME SIZE.
2.	ADD FROST STOOP AT NEW EXTERIOR DOORS. RE: DETAILS.
3.	INSTALL CARD READER CONTROL ACCESS. RE: ELECTRICAL PLANS.

GEN. NOTES TO DOOR SCHEDULE

1. DOOR NUMBER: SEE FLOOR PLAN(S) FOR LOCATION OF DOORS.
2. FRAME: SEE "CODE TO DOOR SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN MATERIAL COLUMN. SEE "DOOR FRAMES" FOR DESCRIPTION OF DESIGNATIONS IN FRAME TYPE COLUMN.
3. DOOR: SEE "CODE TO DOOR SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN MATERIAL COLUMN. SEE "DOOR TYPES" FOR DESCRIPTION OF DESIGNATIONS IN DOOR TYPE COLUMN.
4. FIRE RATING: LABELING INDICATED IS PER NFPA 80. LABELS SHALL BE APPROVED AND PERMANENTLY AFFIXED.
5. SIZE: SIZE IS GIVEN AS WIDTH x HEIGHT.
6. HARDWARE SET: SEE HARDWARE SPECIFICATIONS FOR DESCRIPTIONS.
7. ALL INTERIOR AND EXTERIOR WINDOWS WITHIN 24" TO THE VERTICAL EDGE OF AN INTERIOR OR EXTERIOR DOOR MUST CONTAIN TEMPERED SAFETY GLASS.

CODE TO DOOR SCHEDULES	
RU	ROLL UP COILING DOOR
AL	ALUMINUM
SCPL	SOLID CORE DOOR, PLASTIC LAMINATE FACE
SCOW	SOLID CORE DOOR, WOOD VENEER FINISH
HM	HOLLOW METAL
FP	FOLDING ACCORDION PARTITION
OH	OVERHEAD STEEL SECTIONAL DOOR
HCV	HOLLOW CORE, WOOD VENEER FINISH
ST	STEEL
STI	STEEL INSULATED
SS	STAINLESS STEEL
IOH	INSULATED OVERHEAD SECTIONAL DOOR
WOH	WOOD OVERHEAD SECTIONAL DOOR
CLAD	ALUMINUM CLAD WOOD
FRP	FIBERGLASS REINFORCED PLASTIC

ROOM		CEILING TYPE	FLOOR	BASE	WALLS					SIGN TYPE	REMARKS
NUMBER	NAME				TYPICAL	NORTH	EAST	SOUTH	WEST		
81	GYM	--	HSF-1	RB-2	--						
183	TOILET	--	EPX-1	EPX-2	PNT-1, PNT-2						
183A	SHOWER	--	PFT-2	PTB-2	PNT-1, PWT-1						
184	OFFICE	--	EPX-1	EPX-2	PNT-1, PNT-2						
185	STOR.	--	EPX-1	EPX-2	PNT-1, PNT-2						
186	GIRL'S LOCKER RM.	--	EPX-1	EPX-2	PNT-1, PNT-3, PNT-4						
187	SHOWER	GB-C-1	PFT-2	PBT-2	PNT-1, PWT-1						1
188	TOILET	GB-C-1	EPX-1	EPX-2	PNT-1, PNT-3, PNT-4						2
189	TOILET	GB-C-1	EPX-1	EPX-2	PNT-1, PNT-3, PNT-4						1
190	SHOWER	GB-C-1	PFT-2	PTB-2	PNT-1, PWT-1						1
191	BOY'S LOCKER RM.	--	EPX-1	EPX-2	PNT-1, PNT-3, PNT-4						2
192	STOR.	--	EPX-1	EPX-2	PNT-1, PNT-2						1
193	TOILET	--	EPX-1	EPX-2	PNT-1, PNT-2						
193A	SHOWER	--	PFT-2	PBT-2	PNT-1, PWT-1						
194	OFFICE	--	EPX-1	EPX-2	PNT-1, PNT-2						
195	TRAINING	--	EPX-1	EPX-2	PNT-1, PNT-2						
200	CAFETERIA	--	GER-1	RB-1	PNT-5						
200A	VEST.	--	GER-1	RB-2	PNT-5						
203	STAGE	--	--	--	PNT-5						
207	VESTIBULE	--	GER-1	RB-2	PNT-5						
213	KITCHEN	ATC-2	EPX-1	EPX-2	PNT-2						
213A	STOR.	ATC-2	EPX-1	EPX-2	PNT-2						
213C	R.R.	--	EPX-1	EPX-2	PNT-1, PNT-2						

REMARKS TO FINISH SCHEDULE	
1.	SEE INTERIOR ELEVATION 1/A&.0
2.	SEE INTERIOR ELEVATION 17/A&.0

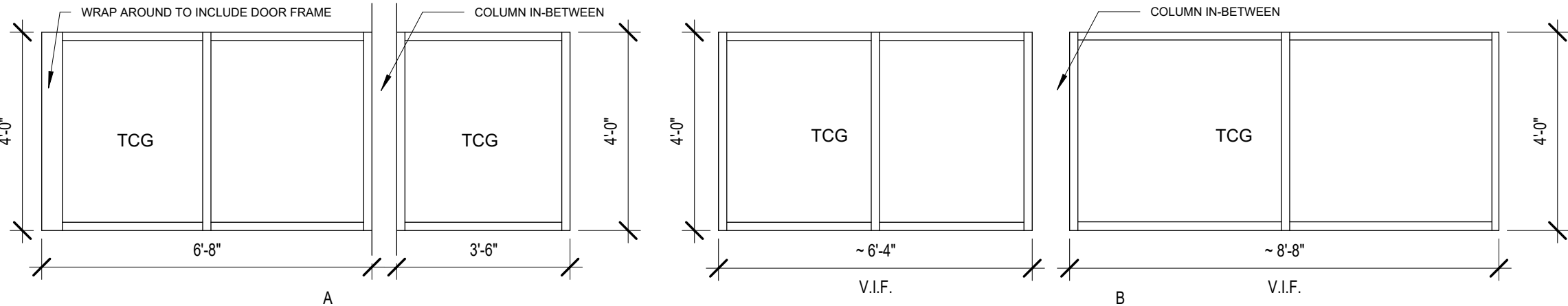
	CODE TO ROOM FINISH
	--CONCRETE FINISH--
EPX-1	POURED EPOXY FLOOR
EPX-2	EPOXY INTEGRAL BASE - COVED.
	--RESILIENT PRODUCTS--
RB-1	4 1/2" RESILIENT BASE - COVED. (RENOVATION PROJECTS)
RB-2	SALVAGED VENTED GYMNASIUM BASE
GER-1	GERALVO GTI MAX LOCKING FLOATING PANEL / 3x3 EPOXY PANELS.
	.. TILE FINISH ..
PFT-2	PORCELAIN FLOOR TILE.
PTB-2	PORCELAIN TILE BASE.
PWT-1	PORCELAIN WALL TILE.
	-- PAINT FINISH --
PNT-1	PAINT - FLAT LATEX. CEILING WHITE.
PNT-2	PAINT - EGG SHELL LATEX. SW SHOJI WHITE
PNT-3	ACCENT PAINT - DARK GRAY - MATCH CAFETERIA RESTROOMS
PNT-4	PAINT - LIGHT GRAY - MATCH CAFETERIA RESTROOMS
PNT-5	BRICK PAINT - LOXON PROMAR 200 - MATCH CORRIDOR BRICK PAINT COLOR.
	-- CARPET --
CPT-1	WALK-OFF CARPET TILES. MATCH EXISTING WALK OFF CARPET FROM VESTIBULE 100A.
	-- WOOD FINISHES --
HSF-1	HARDWOOD SPORTS FLOOR SYSTEM - SAND AND REFINISH
	--CEILING FINISHES--
ATC-1	2x2 LAY IN ACOUSTIC BOARD, REVEAL EDGE, IN PREFINISHED METAL 15/16 T GRID.
ATC-2	2x2 LAY IN NON PERFORATED VINYL, MOISTURE RESISTANT GYPSUM BOARD, SQUARE EDGE, IN PREFINISHED 15/16" ALUMINUM T-GRID.
GBC-1	5/8" MOISTURE RESISTANT GYPSUM BOARD APPLIED TO METAL STUD BULKHEAD. PNT-1 UNLESS NOTED OTHERWISE.

GENERAL NOTES

1. TRANSITION AND REDUCER STRIPS TO MATCH COLOR OF FLOORING, U.N.O.
2. TRANSITION ALL FLOOR FINISHES AT CENTER OF DOOR, UNLESS NOTED OTHERWISE.
3. WHERE TWO OR MORE FINISHES APPEAR IN THE FINISH SCHEDULE FOR ONE SURFACE, REFER TO PLANS, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION.
4. RECESSED WIREWAYS, ACCESS PANELS, GRILLES, FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, AND ALL OTHER SUCH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DEVICES MUST BE FINISHED TO MATCH ADJACENT WALL OR CEILING SURFACE, UNLESS NOTED OTHERWISE.
5. ALL PAINT TO BE LOW VOC.
6. TOUCH-UP PAINT (PNT-2 OR MATCH EXISTING) AT ALL JAMBS AND SILLS WHERE WINDOWS ARE REPLACED.
7. ROOM: SEE FLOOR PLAN(S) FOR LOCATION OF ROOM NUMBERS AND NAMES.
8. CEILING TYPE, FLOOR, AND BASE: SEE "CODE TO ROOM FINISH" FOR DEFINITION OF DESIGNATIONS.
9. WALLS: SEE "CODE TO ROOM FINISH SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN TYPICAL, NORTH, SOUTH, EAST, AND WEST COLUMNS.
10. REMARKS: SEE "REMARKS TO FINISH SCHEDULE".
11. SIGN TYPE: SEE SPECIFICATIONS FOR SIGN TYPES. LOCATE SIGN INDICATED ON WALL OUTSIDE ROOM NEAR MAIN ROOM DOOR.

WINDOW SCHEDULE										
WINDOW DESIG.	WINDOW			SIZE		DETAIL REFERENCE				REMARKS
	MATERIAL	TYPE	GLAZING	WIDTH	HEIGHT	HEAD	JAMB	SILL	MULLION	
A	HM	FIXED	TCG	10'-2"	4'-0"	--	--	--		--
B	HM	FIXED	TCG	15'-0"	4'-0"	--	--	--		--

WINDOW TYPES



REMARKS TO WINDOW SCHEDULE

1. +

GEN. NOTES TO WINDOW SCHEDULE

1. WINDOW DESIGNATION: SEE FLOOR PLAN(S) FOR LOCATION OF WINDOWS.
2. FRAME: SEE "CODE TO WINDOW SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN MATERIAL COLUMN. SEE "WINDOW TYPES" FOR DESCRIPTION OF DESIGNATIONS IN FRAME TYPE COLUMN.
3. WINDOW: SEE "CODE TO WINDOW SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN GLAZING COLUMN.
4. SIZE: SIZE IS GIVEN AS WIDTH x HEIGHT.
5. HARDWARE SET: SEE HARDWARE SPECIFICATIONS FOR DESCRIPTIONS.
6. ALL INTERIOR AND EXTERIOR WINDOWS WITHIN 24" TO THE VERTICAL EDGE OF AN INTERIOR OR EXTERIOR DOOR MUST CONTAIN TEMPERED SAFETY GLASS.

CODE TO WINDOW SCHEDULES	
PWG	1/4" POLISHED WIRE GLAZING
INS	INSULATED GLAZING
TCG	TEMPERED CLEAR GLAZING
SIG	SOLAR INSULATED GLAZING
SSG	SINGLE STRENGTH GLAZING
HSG	HEAT STRENGTHENED GLAZING
LSG	LAMINATED SAFETY GLAZING
PG	PATTERNED GLAZING
LG	LEXAN GLAZING
TG	TRIPLE GLAZING

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DOOR, WINDOW & ROOM FINISH SCHEDULES

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ARCHITECTURE

ENGINEERING

CONSULTING

COLEMAN JR & SR HIGH SCHOOL

2026 RENOVATION PROJECTS

4951 N. LEWIS RD, COLEMAN, MI. 48618

PROJECT NO. 21-949

	BY	NO. REVISIONS	DATE
DESIGNED	-	B DESIGN DEVELOPMENT	06.18.26
DRAWN	-	C 90% REVIEW	08.20.26
CHECKED	-	D FOR CONSTRUCTION	10.08.26
APPROVED	-		

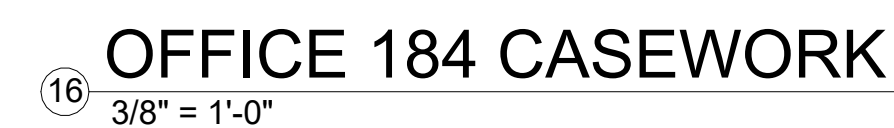
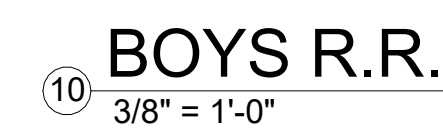
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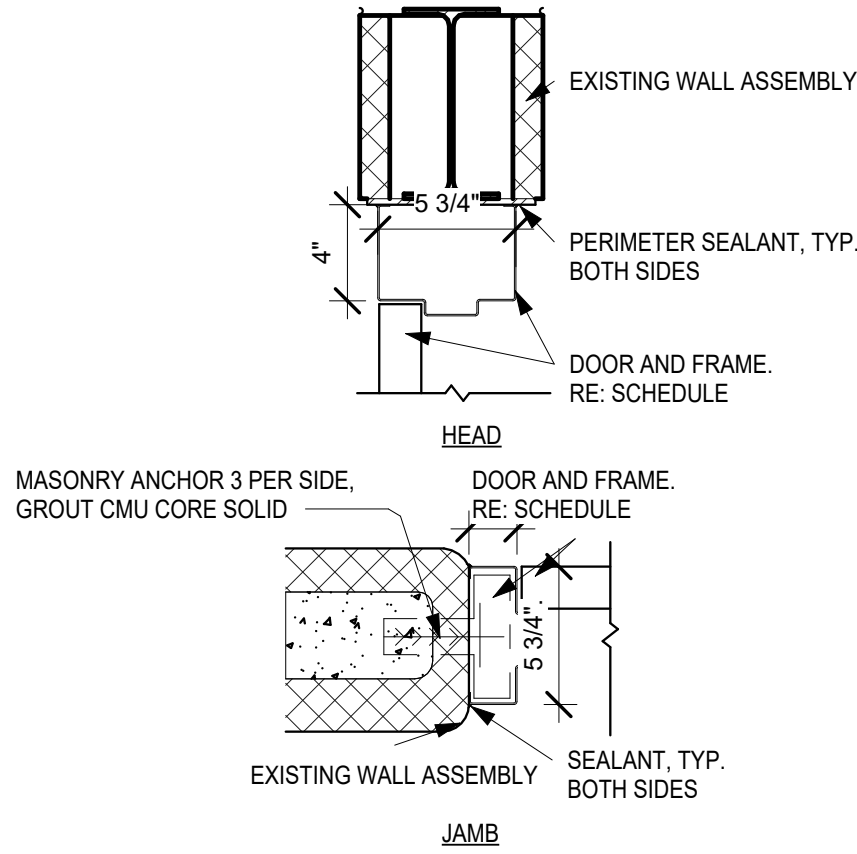
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INTEGRATED DESIGNS, INC.

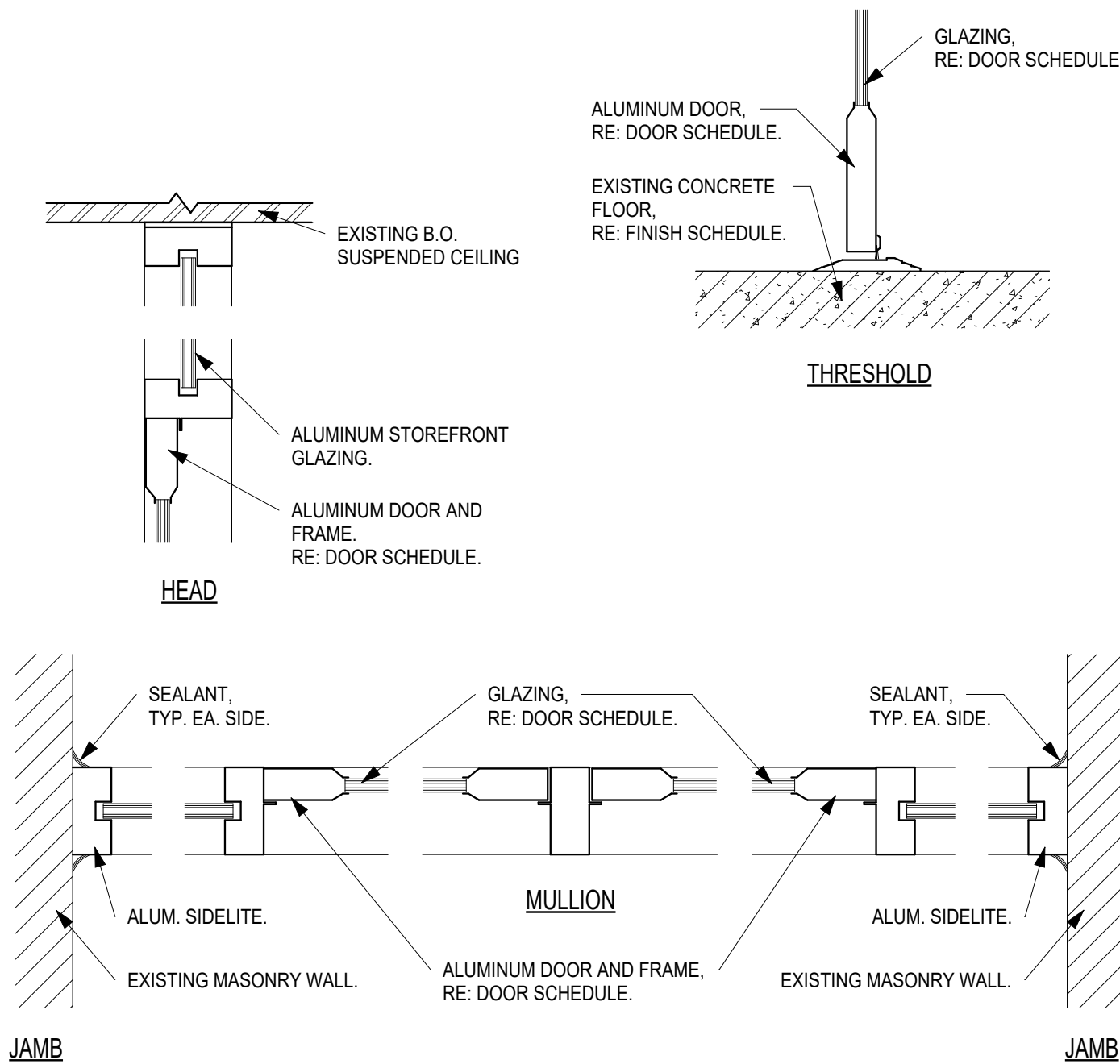


4 GIRLS CUBBIES
3/8" = 1'-0"

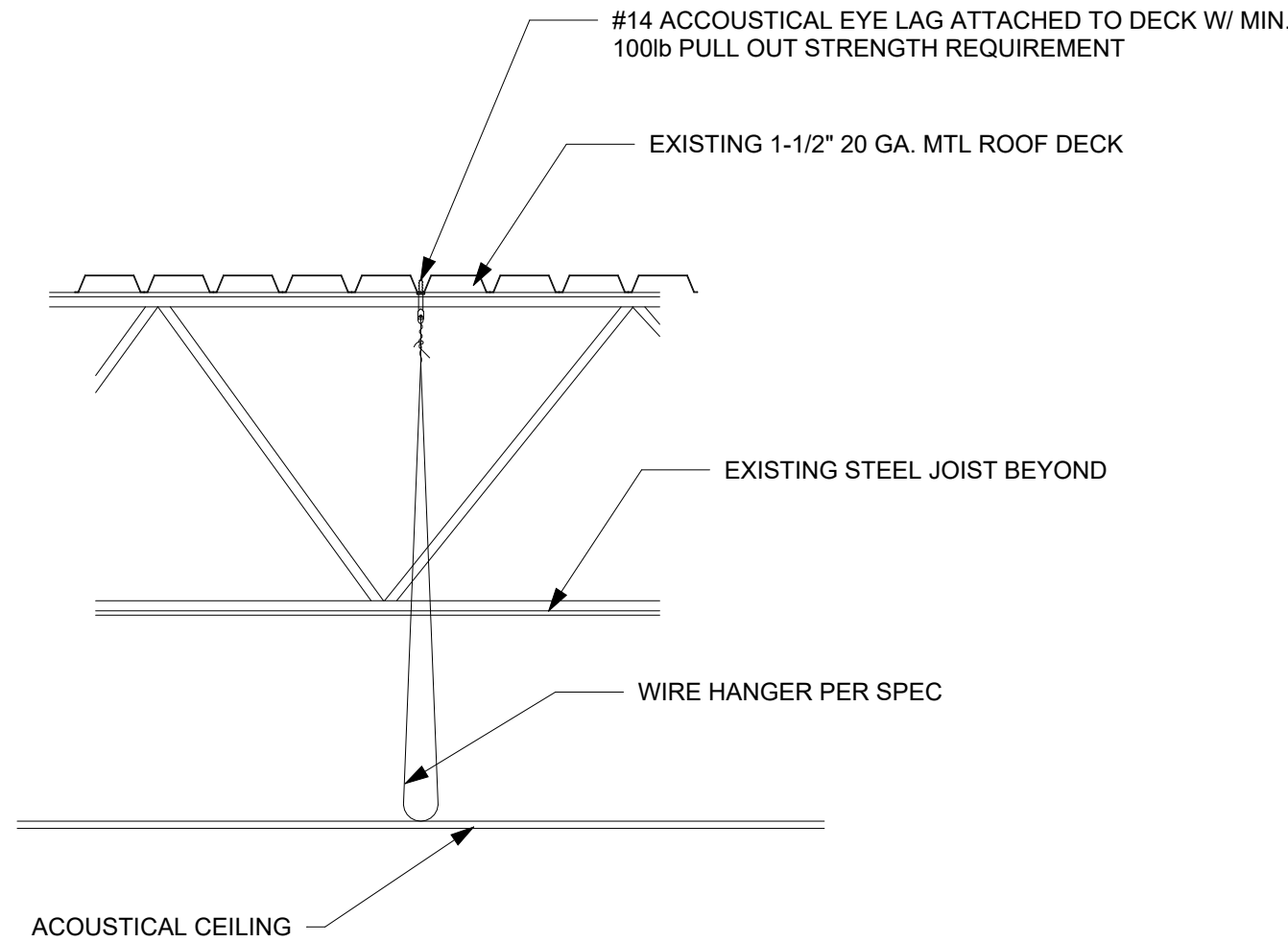




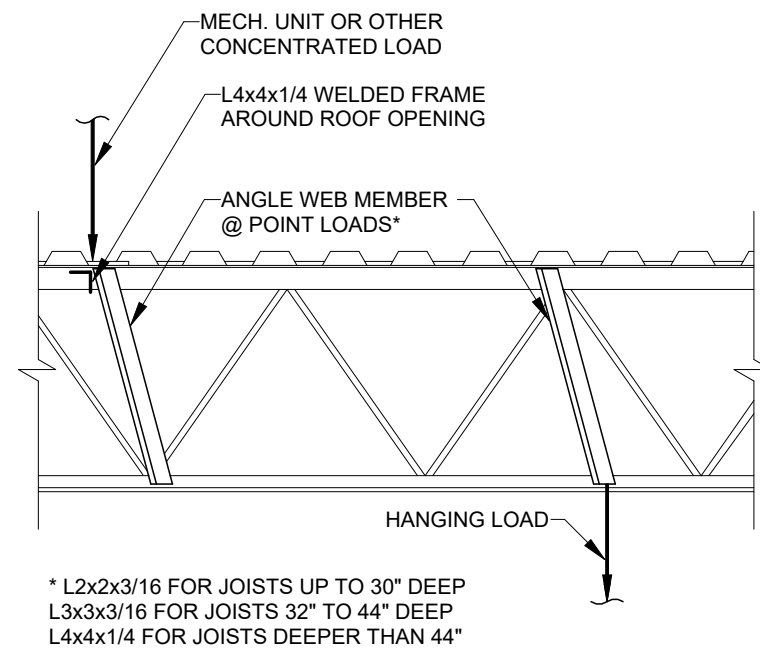
6 H.M. DOOR DETAIL
1 1/2" = 1'-0"



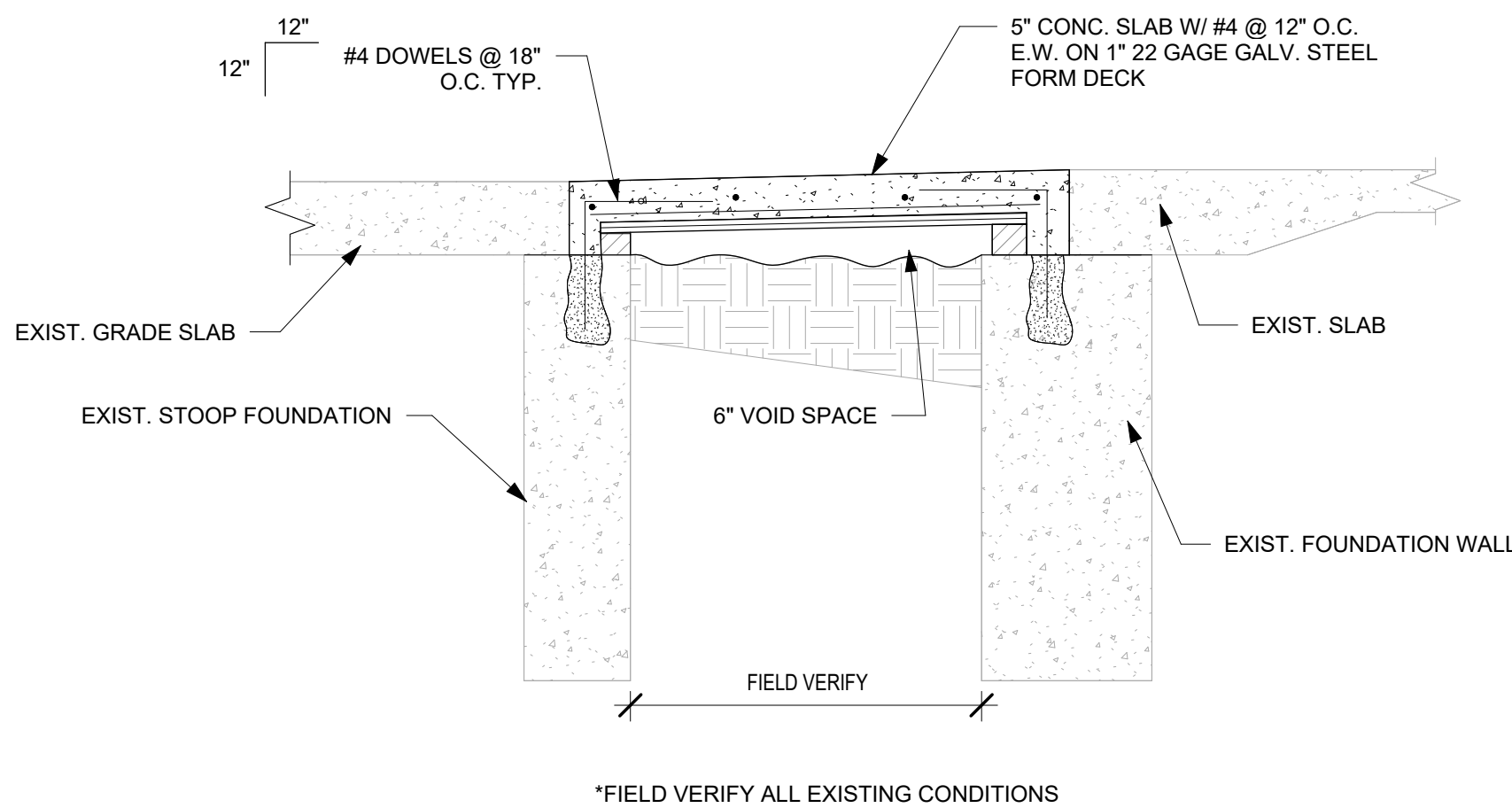
5 ALUMINUM DOOR DETAIL
1 1/2" = 1'-0"



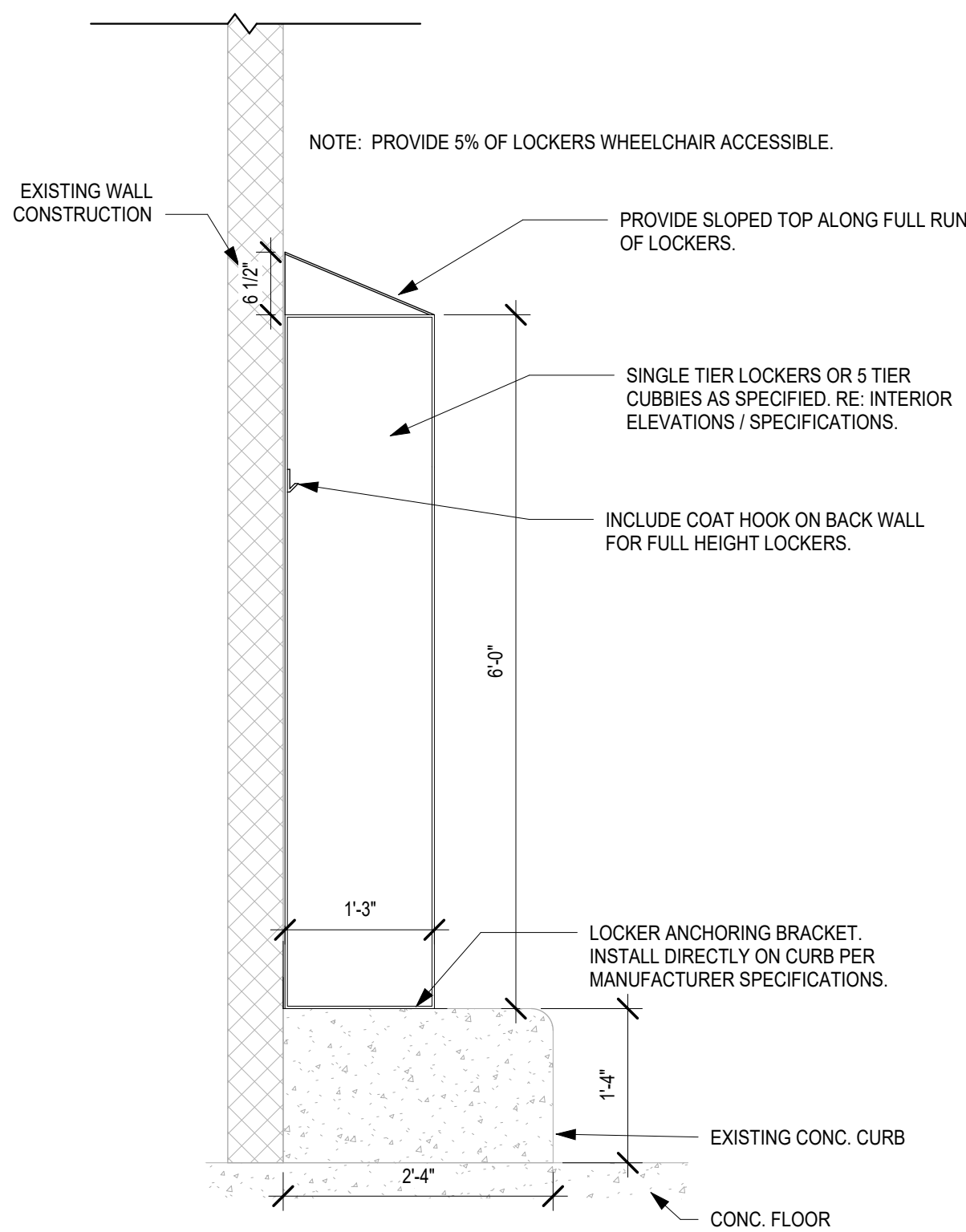
4 CEILING CONNECTION DESIGN
3/4" = 1'-0"



3 TYP. JOIST REINFORCING DETAIL
1/8" = 1'-0"



1 FROST SLAB REPLACEMENT
3/4" = 1'-0"



2 LOCKER DETAIL
3/4" = 1'-0"

NO.	REVISIONS	DATE
C	90% REVIEW	08.20.26
0	FOR CONSTRUCTION	10.08.26

BY	DESIGNED	DRAWN	CHECKED	APPROVED
-	-	-	-	-

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT / AIR ADMITTANCE VALVE
AD	ACCESS DOOR
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
ASR	AUTOMATIC SPRINKLER RISER
BD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	COOLING
CO	CLEANOUT
CONT	CONTINUATION / CONTINUED
CONV	CONVECTOR
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DEG	DEGREE
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
(E)	EXISTING
EA / EX	EXHAUST AIR
EA	ENTERING AIR
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EM	ENERGY MANAGEMENT
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWI	ELECTRIC WATER HEATER
°F	DEGREES FAHRENHEIT
F	FIRE
FA	FREE AREA (LOUVER) / FACE AREA (COIL)
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FFD	FUNNEL FLOOR DRAIN
FLA	FULL LOAD AMPS
FFM	FEET PER MINUTE
FS	FLOOR SINK
FT	FEET
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HUB DRAIN
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HYD	HYDRANT
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES

ABBREVIATIONS CONT.	
ABBREVIATION	DESCRIPTION
INV	INVERT
ISP	INTERNAL STATIC PRESSURE
IW	INDIRECT WASTE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS / HR	POUNDS PER HOUR
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	1,000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER (AUTOMATIC)
MOP	MAXIMUM OVER-CURRENT PROTECTION
N.C.	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
ORS	OVERFLOW ROOF SUMP
OS&Y	OUTSIDE SCREW AND YOKE
PD	PRESSURE DROP (FEET OF WATER)
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAUGE
PT	PRESSURE / TEMPERATURE PORT
RA	RETURN AIR
RD	ROOF DRAIN
REL. A	RELIEF AIR
REQ	REQUIRE
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SA	SUPPLY AIR
SH	SHOWER
SP	STATIC PRESSURE
SQFT / SF	SQUARE FOOT / SQUARE FEET
SS	SERVICE SINK
T	TEMPERATURE
T&P	TEMPERATURE AND PRESSURE
TS	TOTAL STATIC
TYP	TYPICAL
U	URINAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
W	WASTE
W&V	WASTE & VENT
WB	WET BULB TEMPERATURE
WC	WATER CLOSET
WG	WATER GAUGE
WH	WATER HEATER

MECHANICAL SYMBOLS	
SYMBOL	DESCRIPTION
	RECTANGULAR TAKE-OFF
	ROUND TAKE-OFF
	RECTANGULAR ELBOW (WITH TURNING VANES)
	RECTANGULAR RADIUS ELBOW
	ROUND RADIUS ELBOW
	RECTANGULAR ELBOW UP
	ROUND ELBOW UP
	RECTANGULAR ELBOW DOWN
	ROUND ELBOW DOWN
	CONCENTRIC TRANSITION
	ECCENTRIC TRANSITION
	INCLINED RISE IN DIRECTION OF AIRFLOW
	INCLINED DROP IN DIRECTION OF AIRFLOW
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT CONNECTION
	SUPPLY DIFFUSER
	LINEAR SLOT DIFFUSER
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	TRANSFER GRILLE
	SUPPLY DUCT CROSS SECTION
	RETURN DUCT CROSS SECTION
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE / SMOKE DAMPER
	VOLUME DAMPER (MANUALLY ADJUSTABLE)
	MOTORIZED DAMPER
	SMOKE DETECTOR
	CARBON DIOXIDE SENSOR
	THERMOSTAT OR TEMPERATURE SENSOR
	HUMIDISTAT OR HUMIDITY SENSOR
	SENSOR
	RETURN OR EXHAUST / SUPPLY AIR FLOW
	DOOR GRILLE

PIPING SYMBOLS	
SYMBOL	DESCRIPTION
	PIPE ELBOW UP
	PIPE ELBOW DOWN
	PIPE TEE TOWN
	DIRECTION OF FLOW
	UNION
	STRAINER
	REDUCER
	EXPANSION JOINT
	FLEXIBLE CONNECTION
	PIPE ANCHOR
	PIPE GUIDE
	PIPE CAP OR PLUG
	GATE VALVE
	PUMP
	GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	ANGLE VALVE
	CHECK VALVE
	PLUG VALVE
	OUTSIDE SCREW AND YOKE VALVE (OS&Y)
	THERMOMETER
	PRESSURE REGULATING VALVE
	SOLENOID VALVE
	CONTROL VALVE (2-WAY / 3-WAY)
	CENTRIFUGAL FAN
	FLOOR DRAIN
	FLOOR DRAIN
	ROOF SUMP / DRAIN
	FLOOR CLEAN OUT
	CLEAN OUT (IN LINE)
	WALL CLEAN OUT
	WATER METER ASSEMBLY
	HOSE BIBB / WALL HYDRANT
	SPRINKLER HEAD (PENDANT)
	SPRINKLER HEAD (UPRIGHT)
	SPRINKLER HEAD (SIDE WALL)
	SLOPE
	FLOW SWITCH
	SIAMESE CONNECTION (YARD)
	SIAMESE CONNECTION (WALL MOUNTED)
	COMBINATION FLOW MEASURING AND BALANCING DEVICE
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	HOSE END VALVE
	SAFETY RELIEF VALVE
	PRESSURE GAUGE
	BALANCING COCK
	STRAINER W/ BLOW OFF VALVE

DRAWING NOTATION	
SYMBOL	DESCRIPTION
	KEY NOTE
<u>RTU-1</u>	EQUIPMENT DESIGNATION AND NUMBER
 NECK SIZE CFM	AIR TERMINAL TAG
 GPM	BASEBOARD RADIATION TAG (TYPE OVER LENGTH OF ELEMENT)
_____	EXISTING DEVICES OR EQUIPMENT
_____	NEW OR MODIFIED DEVICES OR EQUIPMENT
	REVISIONS
	POINT OF NEW CONNECTION TO EXISTING
	SUPPLY DIFFUSER, DARKENED AREAS SIGNIFY BLANKED OFF SECTIONS
NAME 500	ROOM NAME AND NUMBER
 MO 0	SECTION CUT (NUMBER OF SECTION - TOP / CORRESPONDING VIEW - BOTTOM)
 MO 0	DETAIL (NUMBER OF DETAIL - TOP / CORRESPONDING VIEW - BOTTOM)
 MO 0	ENLARGED VIEW (NUMBER OF VIEW - TOP / CORRESPONDING VIEW - BOTTOM)

PIPING LEGEND	
SYMBOL	DESCRIPTION
—————AW—————	ACID WASTE
-- -- CHWR (CWR) OR CR -- --	CHILLED OR CONDENSER WATER RETURN
————CHWS (CWS) OR CS————	CHILLED OR CONDENSER WATER SUPPLY
————CA————	COMPRESSED AIR
————D————	CONDENSATE / EQUIPMENT DRAIN
————CW————	DOMESTIC COLD WATER
————HW————	DOMESTIC HOT WATER
————HWC————	DOMESTIC HOT WATER RECIRC.
————DT————	DRAIN TILE
————F————	FIRE PROTECTION
————HHWR (HWR) OR HPR————	HEATING HOT WATER OR HEAT PUMP RETURN
————HHWS (HWS) OR HPS————	HEATING HOT WATER OR HEAT PUMP SUPPLY
————HGB————	HOT GAS BYPASS
————MA————	MEDICAL AIR
————G————	NATURAL GAS
————O————	OXYGEN GAS
————LP————	PROPANE
————RL————	REFRIGERANT LIQUID
————RS————	REFRIGERANT SUCTION
————SAN————	SANITARY WASTE
————SAN————	SANITARY WASTE UNDERGROUND
————STEAM————	STEAM
————COND————	STEAM CONDENSATE
————ST————	STORM SEWER
————ST————	STORM SEWER UNDERGROUND
————T————	TEMPERED WATER
————VAC————	VACUUM
————V————	VENT

MECHANICAL GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE HVAC SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS, SPECIAL RADIIUS OR MITERED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONTRAINTS OR OTHER STRUCTURAL CONDITIONS.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3. DUCTWORK/PIPPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF AND ABOVE ELECTRICAL EQUIPMENT. DUCTWORK/PIPPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
5. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, EQUIPMENT PAD LOCATIONS, ETC. WITH ARCHITECTURAL TRADES.
6. ALL THERMOSTATS OR TEMPERATURE SENSORS SHALL BE PROVIDED WITH INSULATED BASES WHEN LOCATED IN MASONRY OR EXTERIOR WALLS.
7. PROVIDE COVERS ON ALL SENSORS LOCATED IN PUBLIC SPACES OR WHERE LOCATED IN AREAS THAT DAMAGE CAN OCCUR (I.E. GYM).
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES, REGISTERS, AND DIFFUSERS.
9. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
10. PIPING RUN-OUTS TO UNIT HEATERS, CABINET UNIT HEATERS, CONVECTORS, AND FINNED TUBE ARE THE LARGER OF 3/4" NPS OR THE EQUIPMENT CONNECTION SIZE WHERE NO PIPE IS INDICATED.
11. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS, VALVES, AND DEVICES REQUIRING SERVICE LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES.
12. FOR EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT REFER TO PIPING DIAGRAMS AND DETAILS.
13. BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSERS SHALL BE THE SAME SIZE AS THE GRILLE, REGISTER, OR DIFFUSER NECK SIZE WHERE NO DUCT SIZE IS INDICATED ON PLAN.
14. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".
15. OPENINGS THROUGH ROOF DECK SHALL BE COORDINATED WITH FRAMING PLANS. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND PROVIDE FOR OPENINGS AND FRAMES/REINFORCING AS FOLLOWS:
 - OPENINGS UP TO 18"x18"-PROVIDE 2x2x3/16 ANGLES PERPENDICULAR TO DECK FLUTES, ON BOTH SIDES OF OPENING. EXTEND ANGLES A MINIMUM OF 2 FLUTES BEYOND EDGE OF OPENING. FASTEN ANGLES TO EACH FLUTE WITH #10 TIE SCREWS.
 - OPENINGS LARGER THAN 18"x18"-PROVIDE A WELDED 4x4x1/4 FRAME SUPPORTED BY STEEL JOISTS OR BEAMS AS SHOWN ON STRUCTURAL PLANS.
16. PRIME & PAINT ALL EXPOSED DUCT/WORK WITHIN OCCUPIED SPACES. COORDINATE COLOR WITH G.C./ARCHITECT.
17. INSTALL NEW CARBON MONOXIDE SENSOR WITH AUDIBLE ALARM IN ANY ROOM WITH A GAS-FIRED APPLIANCE.
18. EXISTING B.A.S. SYSTEM IS BY CCS HAVEL. ALL NEW CONTROLS SHALL BE TIED INTO EXISTING SYSTEM.
19. NEW THERMOSTATS OR SENSORS LOCATED IN PUBLIC SPACES OR AREAS WHERE DAMAGE CAN OCCUR (I.E. GYM), SHALL BE INSTALLED WITH PROTECTIVE, LOCKABLE COVER.

PLUMBING GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING OFFSETS REQUIRED TO AVOID STRUCTURE, ETC.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
3. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO PLUMBING DEVICES REQUIRING ACCESS.
5. REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS OF AND EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE), SINKS, ETC. REFER TO PLUMBING FIXTURE SCHEDULES FOR CONNECTION SIZES, ACCESSORIES, AND ADDITIONAL INFORMATION.
6. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR FIXTURE CONNECTION SIZES.
7. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF A PARAPET.
8. PROVIDE ACCESS DOORS FOR CLEANOUTS OR VALVES LOCATED ABOVE HARD CEILINGS. COORDINATE WITH ARCHITECT. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SYSTEMS.
9. MINIMUM UNDERGROUND SANITARY WASTE PIPE SIZE SHALL BE 2".
10. PROVIDE TRAP SEAL PROTECTION ON ALL FLOOR DRAINS PER INTERNATIONAL PLUMBING CODE SECTION 1002.4.
11. COORDINATE LOCATION/SIZES OF ALL FLOOR/WALL PENETRATIONS AND SLEEVES WITH STRUCTURAL AND ARCHITECTURAL TRADES.
12. INSTALL ASSE-1070 LISTED ANTI-SCALD TEMPERING VALVE ON HOT WATER SUPPLY ON ALL NEW HAND SINKS AND LAVATORIES EXCEPT TO WATTS MMX.
13. ALL NEW WORK ON EXISTING ROOF SHALL BE COORDINATED WITH ROOFING CONTRACTOR AS TO NOT VOID ROOF WARRANTY.

MECHANICAL/PLUMBING SYMBOLS, LEGENDS & NOTES

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BY	NO. REVISIONS	DATE
DESIGNED	CRP B	06.18.26
DRAWN	CRP C	08.20.26
CHECKED	SLB 0	10.08.26
APPROVED	SLB	

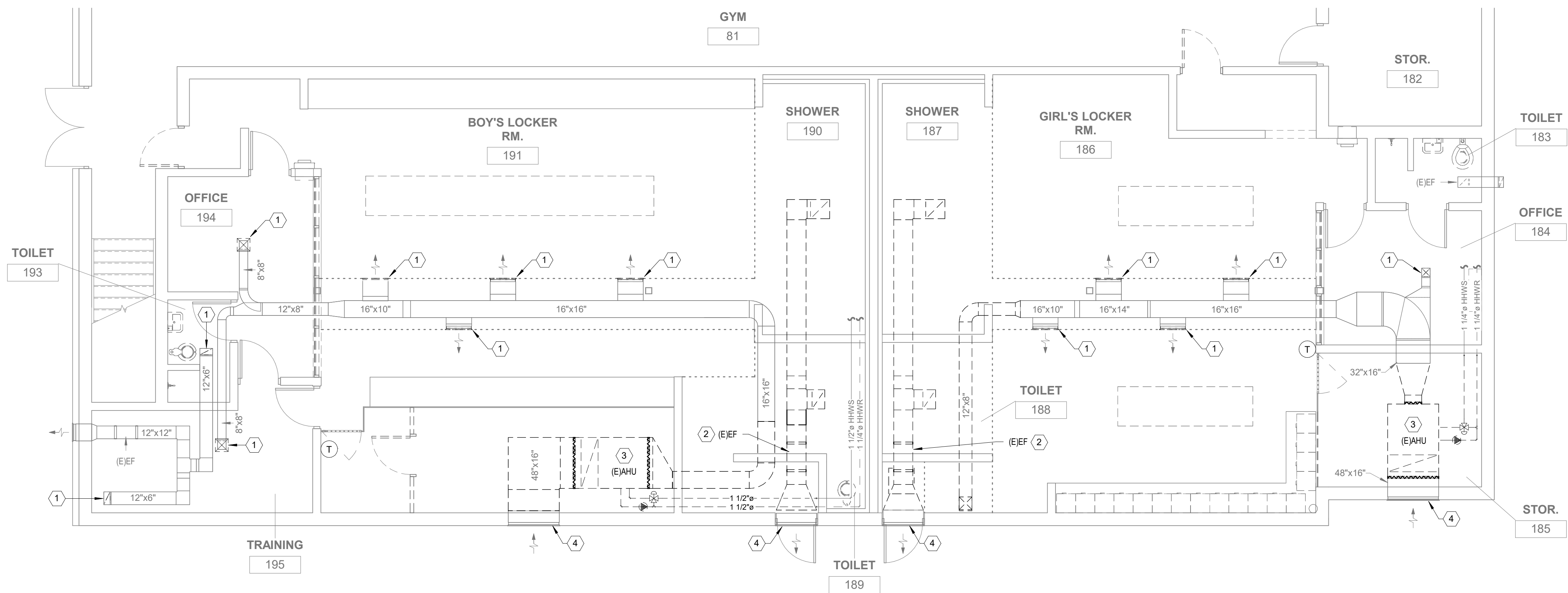
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**MECHANICAL/PLUMBING
SYMBOLS, LEGENDS & NOTES**

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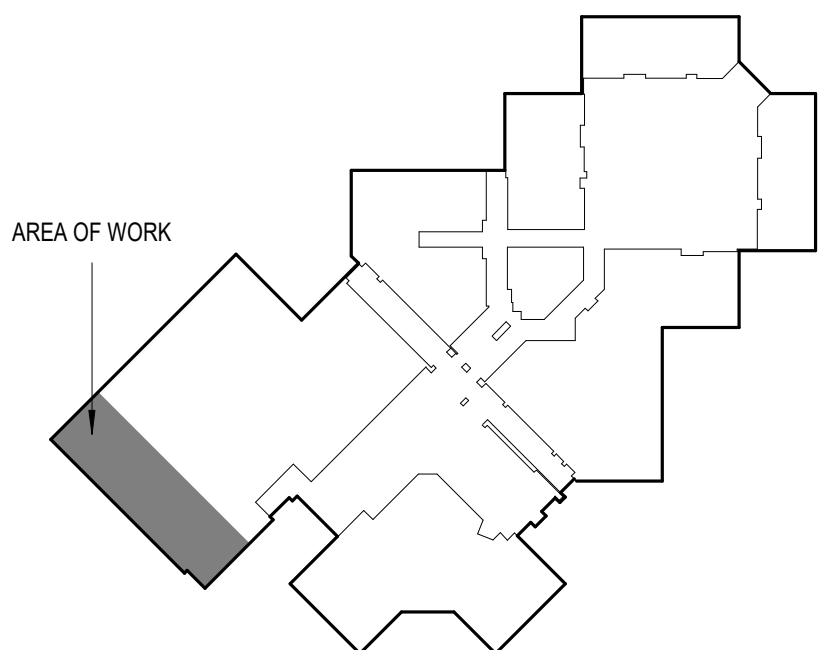
MECHANICAL DEMOLITION PLAN

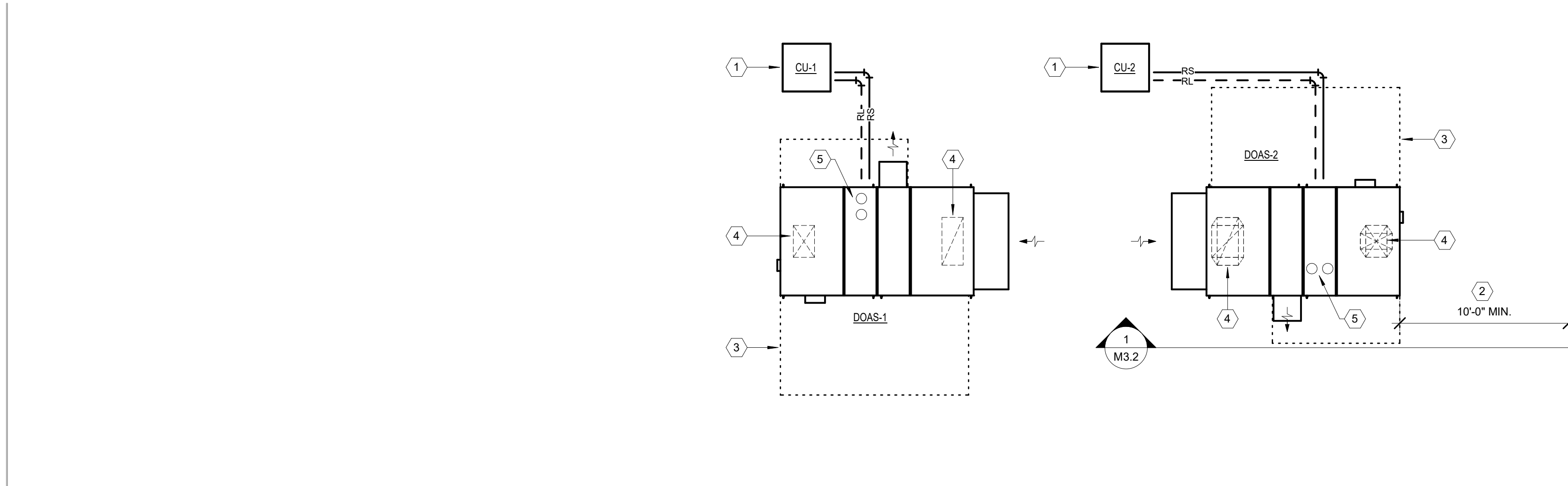
$$\frac{3}{16}'' = 1'-0''$$

KEYNOTES

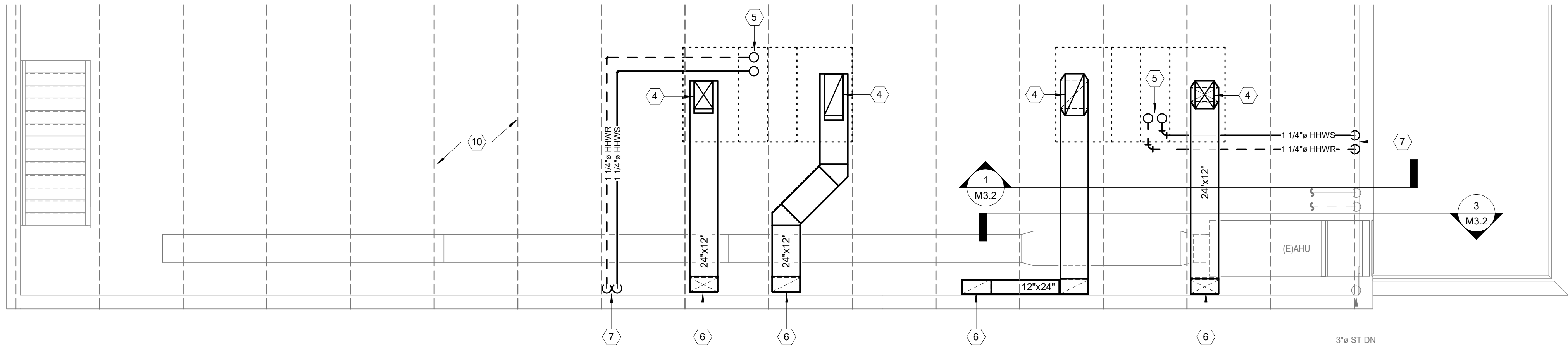
1. REPLACE GRILLE/REGISTER/DIFFUSER (GRD), MEASURE EXISTING OPENING AND GRD SIZE PRIOR TO ORDER OF NEW GRD.
2. REMOVE EXHAUST FAN, ASSOCIATED DUCTWORK, AND GRILLES COMPLETE. EXISTING EXHAUST LOUVER AND WALL PENETRATION SHALL REMAIN. PATCHING AND INSULATING OF OPENING BY ARCHITECTURAL TRADES.
3. REMOVE AIR HANDLING UNIT COMPLETE. REMOVE A PORTION OF SUPPLY DUCT BACK TO POINT SHOWN AND PREP FOR NEW CONNECTION. REMOVE OUTSIDE AIR DUCT BACK TO OUTSIDE AIR LOUVER. LOUVER AND WALL PENETRATION SHALL REMAIN. PATCHING AND INSULATING OF OPENING BY ARCHITECTURAL TRADES. REMOVE HYDRONIC HEATING PIPE, INCLUDING ALL FITTINGS, VALVES, ETC BACK TO POINT SHOWN AND PREP FOR NEW CONNECTIONS. REPLACE THERMOSTAT.
4. EXTERIOR WALL PENETRATIONS/LOUVERS SHALL REMAIN. PATCHING AND INSULATING OF OPENINGS BY ARCHITECTURAL TRADES.

KEYPLAN

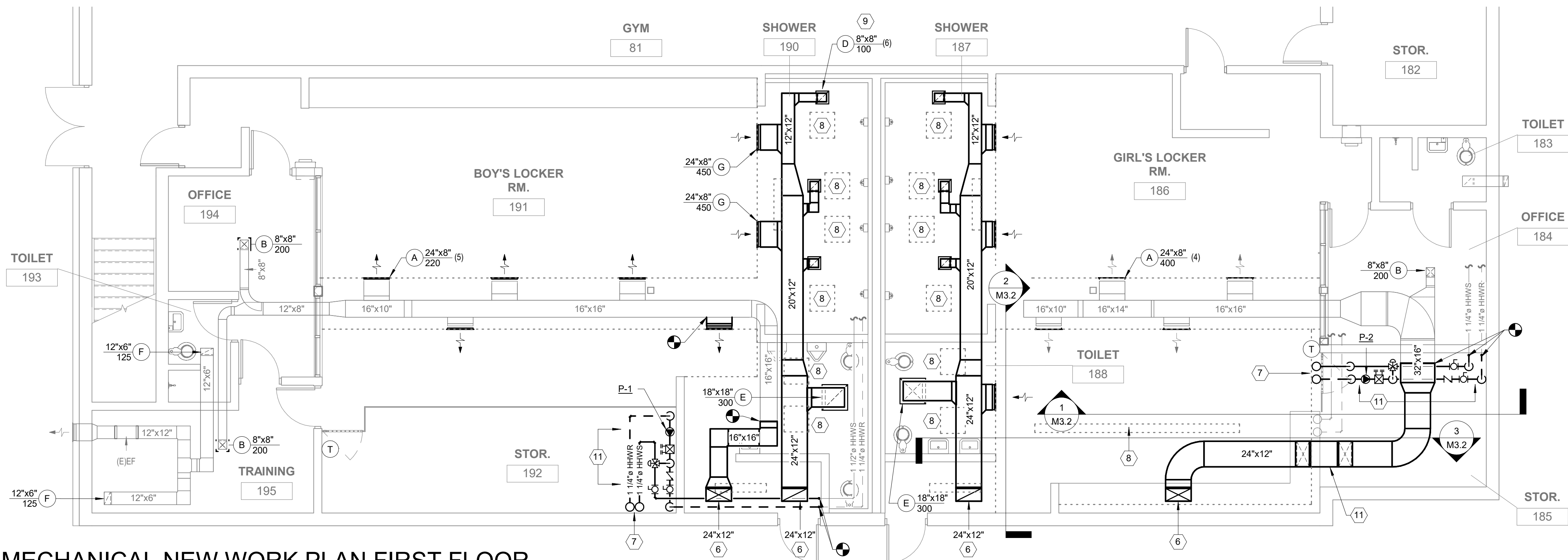




MECHANICAL NEW WORK PLAN ROOF
3/16" = 1'-0"



MECHANICAL NEW WORK PLAN SECOND FLOOR
3/16" = 1'-0"

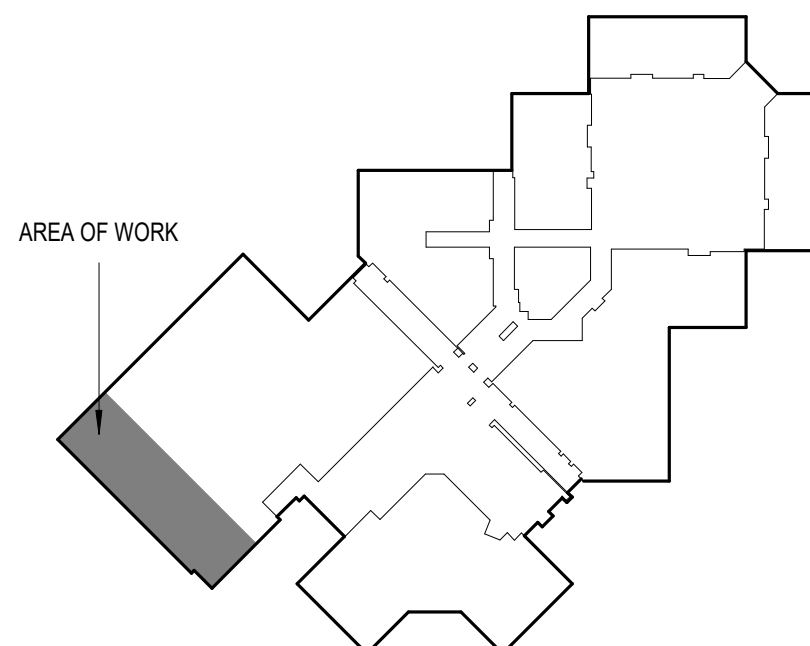


MECHANICAL NEW WORK PLAN FIRST FLOOR
3/16" = 1'-0"

KEYNOTES

1. INSTALL NEW CONDENSING UNIT ON ROOF ON 3" COMPOSITE PAD.
2. MAINTAIN 10' CLEARANCE FOR INSTALLATION OF MECHANICAL EQUIPMENT FROM ROOF EDGE (TYP).
3. ACCESS AND MAINTENANCE CLEARANCE AS REQUIRED BY MECHANICAL EQUIPMENT MANUFACTURER. MAY VARY WITH OTHER MANUFACTURERS.
4. COORDINATE DUCT PENETRATIONS THROUGH ROOF WITH EXISTING STEEL.
5. HEATING WATER PIPE THROUGH ROOF INTO INSULATED PIPE CABINET. COORDINATE EXACT LOCATION WITH MANUFACTURER'S EQUIPMENT.
6. DUCT THROUGH STRUCTURAL PRECAST PLANKS. COORDINATE LOCATION WITH PLANK SEAMS. REFER TO SECTION DETAILS.
7. HEATING PIPING THROUGH STRUCTURAL PRECAST PLANKS. COORDINATE LOCATION WITH PLANK SEAMS. COORDINATE WITH STRUCTURAL DOCUMENTATION. INSTALL WITH PVC JACKET ON EXPOSED SECTIONS OF VERTICAL PIPE.
8. LIGHTS SHOWN FOR COORDINATION PURPOSES.
9. ALIGN NEW DIFFUSERS WITH LIGHTS.
10. STEEL JOISTS SHOWN FOR COORDINATION.
11. PIPING ARRANGEMENT/LOCATION SHOWN IS DIAGRAMMATIC AND FOR CLARIFICATION ONLY. INSTALL PIPING TIGHT TO CEILING AND/OR WALL TO AVOID INTERFERENCE WITH SHELVING UNITS BELOW. ROUTE IN ACCESSIBLE LOCATION FOR MAINTENANCE. MAINTAIN ALL REQUIRED WORKING CLEARANCES. REFER TO DETAIL 4M3.0 FOR ADDITIONAL INFORMATION.
12. TRANSITION DUCT BELOW STRUCTURE. REFER TO SECTION 3M3.2.

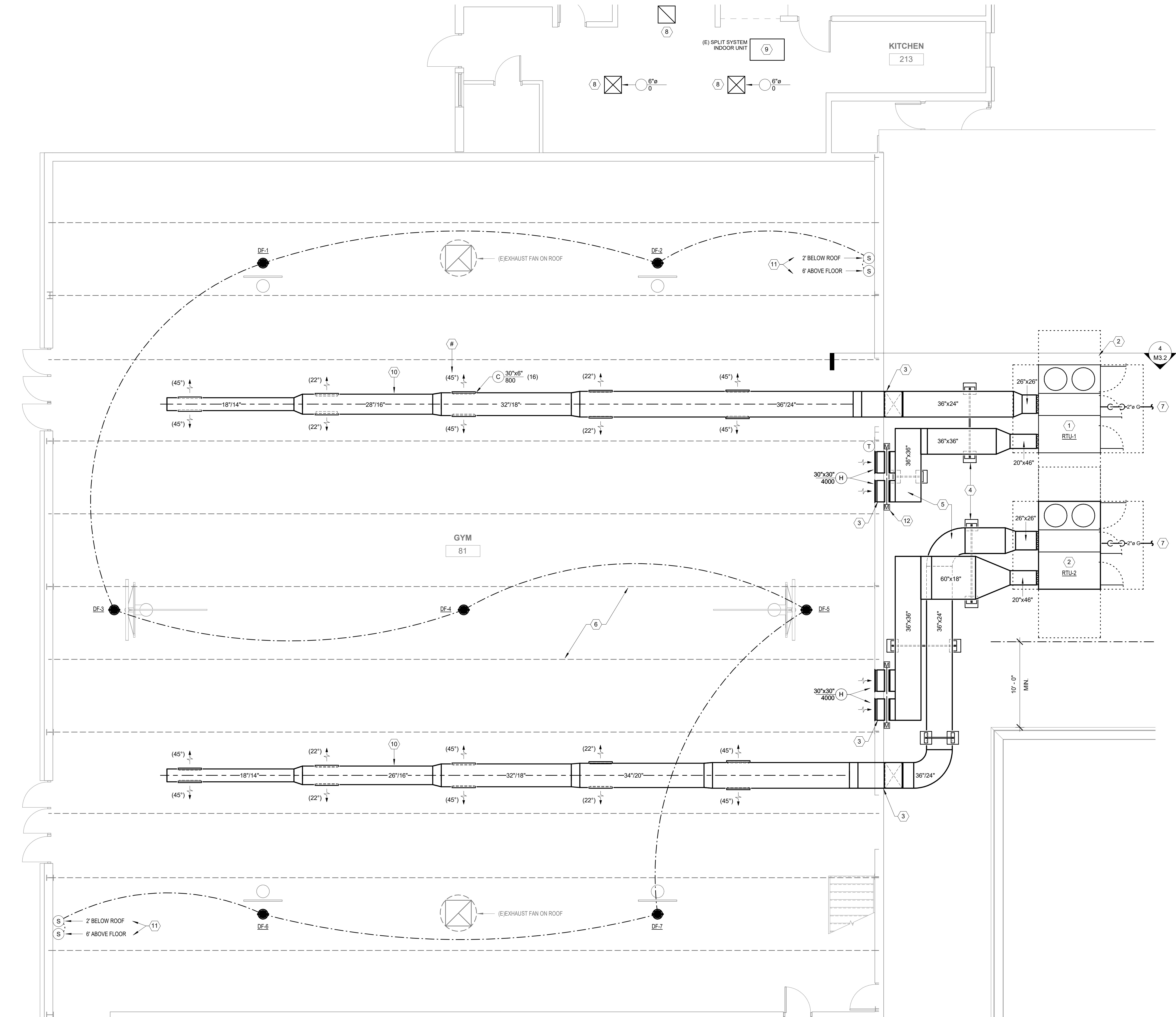
KEYPLAN



NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.30.26
B	DESIGN DEVELOPMENT	06.18.26
C	90% REVIEW	08.20.26
D	FOR CONSTRUCTION	10.08.26

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1 3/16" = 1'-0"

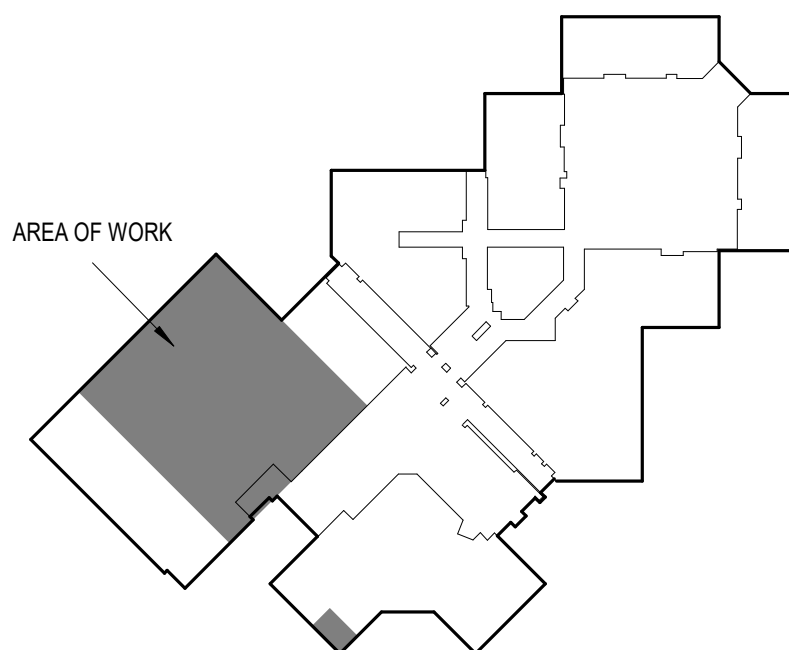


KEYNOTES

- INSTALL ROOFTOP UNIT ON MANUFACTURER FURNISHED CURB. COORDINATE ADDITIONAL STEEL SUPPORTS WITH STRUCTURAL.
- ACCESS AND MAINTENANCE CLEARANCE AS REQUIRED BY MECHANICAL EQUIPMENT MANUFACTURER. MAY VARY WITH OTHER MANUFACTURERS.
- COORDINATE DUCT PENETRATION THROUGH EXTERIOR WALL WITH STRUCTURAL. LINTEL REQUIRED. REFER TO "EXTERIOR WALL DUCT PENETRATION DETAIL" FOR ADDITIONAL INFORMATION. (TYP)
- ROOF MOUNTED DUCT SUPPORT. REFER TO "DUCT SUPPORT DETAIL" FOR ADDITIONAL INFORMATION. SPACING AND QUANTITY BASED ON MANUFACTURER'S REQUIREMENTS. (TYP)
- INSTALL 1/2" ACOUSTICAL DUCT LINER FOR ALL ROOF MOUNTED DUCTWORK (IN ADDITION TO INSULATION AND DUCT WRAP). REFER TO "METAL DUCTS" SPECIFICATION FOR DUCT LINER AND "DUCT INSULATION" SPECIFICATION FOR OUTDOOR DUCT INSULATION SCHEDULE. REFER TO "EXTERIOR DUCT INSULATION DETAIL" FOR ADDITIONAL INFORMATION. (TYP)
- STEEL JOISTS SHOWN FOR COORDINATION.
- REFER TO CONTINUATION ON 5M3.2.
- INSTALL NEW GRILLE/DIFFUSER IN PLACE OF OLD. EXTEND/REWORK PORTION OF DUCT AS NEEDED.
- REINSTALL EXISTING INDOOR COOLING SYSTEM IN NEW CEILING.
- DUCT SHALL BE PAINTED BY OTHERS.
- REFER TO MANUFACTURER'S INSTALLATION DETAIL ON 3M3.0.
- INSTALL 24V MOTORIZED DAMPER ON EXTERIOR RETURN DUCT THROUGH GYM WALL (TYP).

ALL WORK DENOTED ON THIS SHEET IS PART OF BID ALTERNATE #2

KEYPLAN



MECHANICAL NEW WORK PLANS

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2026 MISCELLANEOUS RENOVATION PROJECTS
4951 N. LEWIS RD, COLEMAN, MI. 48618

PROJECT NO. 21-949

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NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.30.26
B	DESIGN DEVELOPMENT	06.18.26
C	90% REVIEW	08.20.26
D	FOR CONSTRUCTION	10.08.26

DESIGNED BY CRP
DRAWN BY CRP
CHECKED BY SJB
APPROVED BY SJB

M2.1



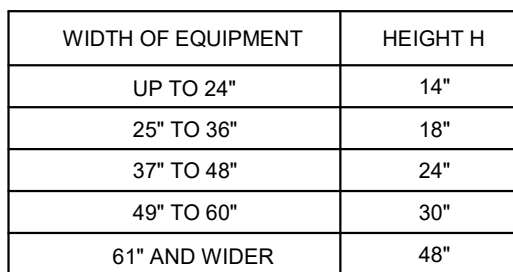


1. BRACKETS ARE SIZED FOR 12 FEET OF DUCT, MAXIMUM.
2. LOCATE DUCTS AGAINST WALL OR MAXIMUM OF 2" AWAY FROM WALL.
3. EACH WALL ANCHOR SHALL SATISFY THE FOLLOWING
 - A. TENSILE LOAD $\geq 3/8 \times$ DUCT WEIGHT;
SAFETY FACTOR OF 4.
 - B. SHEAR LOAD $\geq 1/2$ DUCT WEIGHT;
SAFETY FACTOR OF 4.

SEE KNEE BRACKET TABLES IN
THE ROUND INDUSTRIAL STDs.

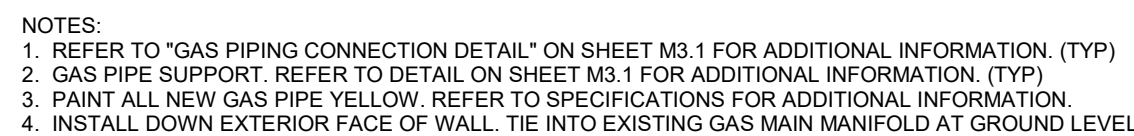
SUGGESTED ANGLE SIZING

<u>DUCT SIZE</u>	<u>ANGLE</u>
30" x 12"	1" x 1" x 1/8"
26" x 18"	1" x 1" x 1/8"
42" x 24"	1-1/4" x 1-1/4" x 1/8"
48" x 30"	1-1/4" x 1-1/4" x 1/8"

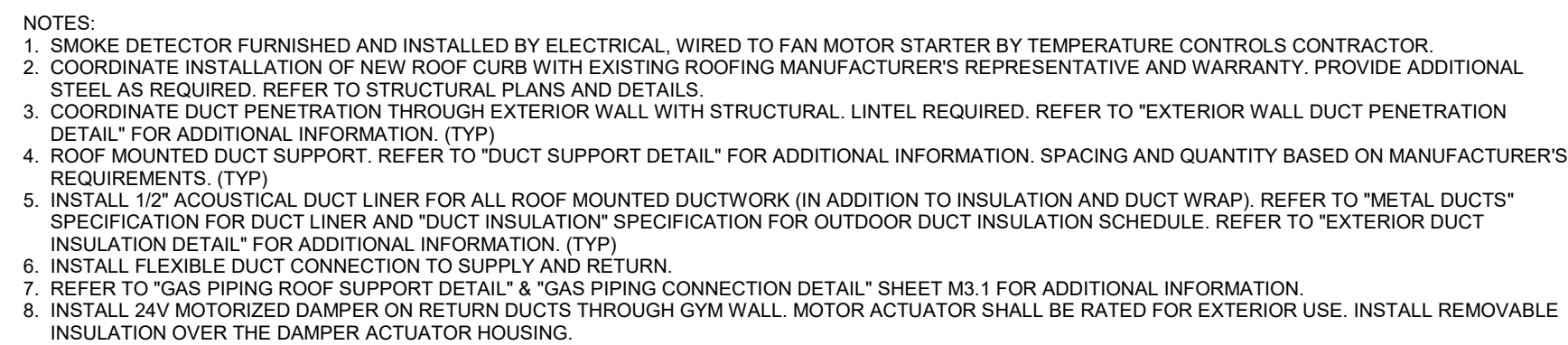


- NOTES:
1. MAXIMUM SPACING = 8'. VERIFY WITH SUPPLIED MANUFACTURER
 2. SUPPORT SIZE TO INCORPORATE DUCT INSULATION.

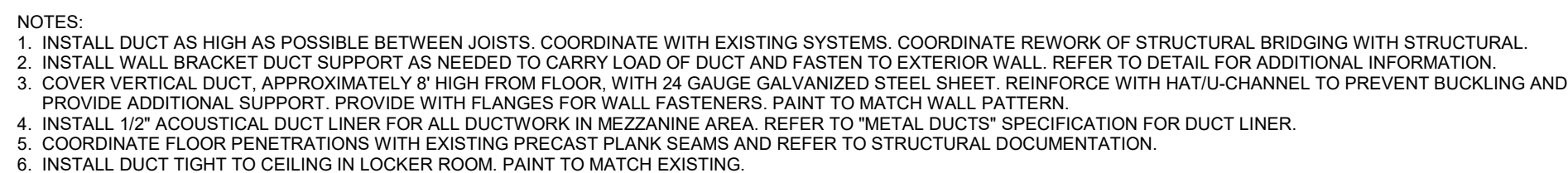




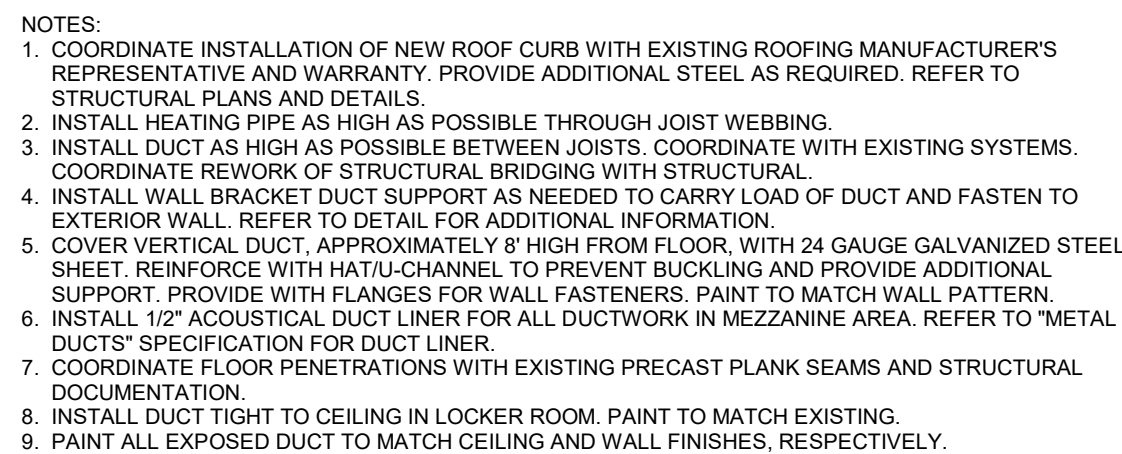
5 MECH
1" = 20'-0"



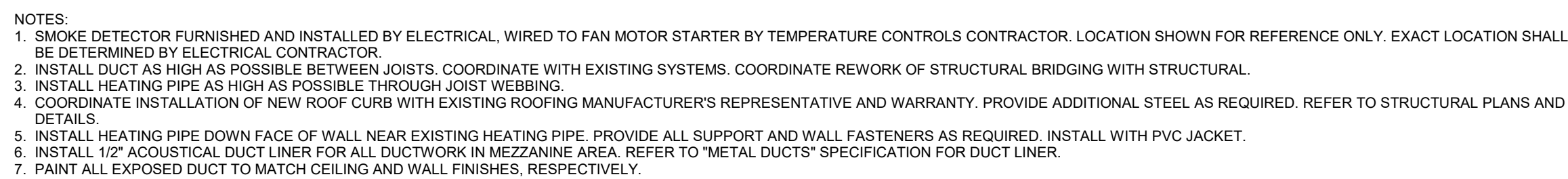
④ $\frac{RI}{N.T.S.}$



3 DO
N.T.S.



2 DO
N.T.S.



1 DC
N.T.S

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PACKAGED COMMERCIAL ROOFTOP UNIT SCHEDULE - (DX - GAS)																																							
ALTERNATE #2	UNIT ID	AREA SERVED	TOTAL SUPPLY (CFM)	MINIMUM (CFM)	SUPPLY FAN			DX COOLING COIL							COMPRESSOR					NATURAL GAS HEATING SECTION					HOT GAS RE-HEAT COIL			POWER EXHAUST OR BAROMETRIC RELIEF	FILTER TYPE	ELECTRICAL				DISCONNECT			CURB HEIGHT (IN)	UNIT WEIGHT (LBS)	MANUFACTURER / MODEL NO.
					ESP (IN WG)	FAN TYPE	DRIVE TYPE	NET TOTAL CAPACITY (MBH)	NET SENSIBLE CAPACITY (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	COMPRESSOR			REFRIGERANT TYPE	INPUT (MBH)	OUTPUT (MBH)	GAS PRESS. (IN WG)	STAGES OR MODULATION TURNDOWN	BURNER TYPE	EAT (°F)	LAT (°F)	RE-HEAT (MBH)	EDB (°F)	LDB (°F)			MOCP	MCA	VOLTS	PHASE	FURN. BY	INST. BY	TYPE			
														TYPE	QUANTITY	TOTAL STAGES																							
ALTERNATE #2	RTU-1	GYM	8000	900	1.00	PLENUM	VARIABLE DIRECT	237.21	175.0	80	67	60.3	57.7	SCROLL	2	4	R454B	400	324		10:1	INDIRECT-FIRED	0	0	167.2	73.0	54.9	BAROMETRIC RELIEF	2" MERV 8	150	108	208-230	3	MANUF.	MANUF.	NON-FUSED SWITCH	24	2782	DAIKIN YSK240
	RTU-2	GYM	8000	900	1.00	PLENUM	VARIABLE DIRECT	237.21	175.0	80	67	60.3	57.7	SCROLL	2	4	R454B	400	324		10:1	INDIRECT-FIRED	0	0	167.2	73.0	54.9	BAROMETRIC RELIEF	2" MERV 8	150	108	208-230	3	MANUF.	MANUF.	NON-FUSED SWITCH	24	2782	DAIKIN YSK240
NOTES: 1. FACTORY FURNISHED, FIELD WIRED 20A GFI RECEPTACLE. 2. FURNISH OUTSIDE AIR INLET AND EXHAUST OUTLET WITH WEATHER HOOD AND BIRD SCREEN. 3. FURNISH WITH BACNET COMPATIBLE DDC CONTROLLER. 4. FURNISH WITH DEMAND CONTROL VENTILATION AND ECONOMIZER CAPABILITIES. 5. FURNISH WITH STAINLESS STEEL DRAIN PAN. 6. FURNISH WITH COIL GUARDS. 7. FURNISH WITH FIELD MOUNTED HORIZONTAL BAROMETRIC RELIEF FOR SIDE DUCTED RETURN.																																							

DEDICATED OUTDOOR-AIR UNIT SCHEDULE																																							
UNIT ID	AREA SERVED	SUPPLY FAN				EXHAUST FAN				ENERGY RECOVERY SECTION	POST ENERGY CORE CONDITIONING								HOT GAS RE-HEAT COIL				FILTERS				ELECTRICAL				DISCONNECT				CURB HEIGHT (IN)	UNIT WEIGHT (LBS)	MANUFACTURER / MODEL NO.		
		FLOW (CFM)	ESP (IN WG)	FAN TYPE	DRIVE TYPE	FLOW (CFM)	ESP (IN WG)	FAN TYPE	DRIVE TYPE		DX COOLING COIL				HOT WATER HEATING COIL				AIR				SUPPLY	EXHAUST	MOCP	MCA	VOLTS	PHASE	FURN. BY	INST. BY	TYPE								
											TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	REFRIGERANT TYPE	TOTAL CAPACITY (MBH)	EAT (°F)	LAT (°F)	FLOW (GPM)	EWT (°F)										LWT (°F)	MAX WPD (FT HD)	RE-HEAT (MBH)				EDB (°F)	LDB (°F)
DOAS-1	BOYS LOCKER ROOM 191	1500	1.00	BACKWARD INCLINED PLENUM	DIRECT, ECM	1500	1.00	BACKWARD INCLINED PLENUM	DIRECT, ECM	SEE SEPARATE SCHEDULE BELOW	65.6	39.6	78.8	67.4	55	55	R454B	72.5	50.5	95.3	7.4	180	160	10.0	29.4	54.8	72.9	2" MERV 13	2" MERV 8	25	19.4	208	3	MANUF.	MANUF.	NON-FUSED SWITCH	14	3625	RENEWAIRE DN-3-JRTAV133
DOAS-2	GIRLS LOCKER ROOM 186	1500	1.00	BACKWARD INCLINED PLENUM	DIRECT, ECM	1500	1.00	BACKWARD INCLINED PLENUM	DIRECT, ECM	SEE SEPARATE SCHEDULE BELOW	65.6	39.6	78.8	67.4	55	55	R454B	72.5	50.5	95.3	7.4	180	160	10.0	29.4	54.8	72.9	2" MERV 13	2" MERV 8	25	19.4	208	3	MANUF.	MANUF.	NON-FUSED SWITCH	14	3625	RENEWAIRE DN-3-JRTAV133

NOTES:
1. FURNISH WITH GFCI CONVENIENCE OUTLET, WIRED BY ELECTRICAL CONTRACTOR IN FIELD.
2. FURNISH WITH BACNET INTEGRATION.

ENERGY RECOVERY SECTION SCHEDULE*													
UNIT ID	ASSOCIATED UNIT	ENERGY CORE - SUMMER						ENERGY CORE - WINTER					
		OUTSIDE AIR			EXHAUST AIR			OUTSIDE AIR			EXHAUST AIR		
		EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	EDB (°F)	LDB (°F)	EDB (°F)	LDB (°F)	EDB (°F)	LDB (°F)		
ERV-1*	DOAS-1	90.4	73.8	78.8	67.4	75	0	-10	50.5	70	0		
ERV-2*	DOAS-2	90.4	73.8	78.8	67.4	75	0	-10	50.5	70	0		

* ENERGY RECOVERY IS INCLUDED WITH/INTERNAL TO THE DEDICATED OUTSIDE-AIR UNIT. THIS SCHEDULE IS MERELY A CONTINUATION OF THE ABOVE SCHEDULE.

GRILLE, REGISTER AND DIFFUSER SCHEDULE										
UNIT ID	PURPOSE	FACE SIZE	NECK SIZE	MOUNTING	ACCESSORY	FINISH	MATERIAL	TYPE	MODEL NO.	REMARKS
A	SUPPLY	NECK SIZE + FRAME	24"x8" (FIELD VERIFY)	SEIOWALL	OPPOSED BLADE DAMPER	WHITE	STEEL	LOUVERED	520	1. DOUBLE DEFLECTION, 3/4" SPACING 2. FRONT BLADES PARALLEL TO LONG DIMENSION. 3. FURNISH WITH OPPOSED BLADE DAMPER, ADJUSTABLE FROM FRONT OF GRILLE.
B	SUPPLY	12"x12" (FIELD VERIFY)	8"x8" (FIELD VERIFY)	NOTE 2	OPPOSED BLADE DAMPER	WHITE	STEEL	SQUARE CONE	SCDA	1. 3-CONE 2. ADJUSTABLE 3. FURNISH WITH OPPOSED BLADE DAMPER, ADJUSTABLE FROM FRONT OF GRILLE.
C	SUPPLY	NECK SIZE + FRAME	30"x6"	DUCT	OPPOSED BLADE DAMPER, AIR SCOPOR WITH ROD OPERATOR	WHITE	STEEL	SPIRAL DUCT	SDG	1. DOUBLE DEFLECTION, 2. BLADE ORIENTATION PARALLEL TO SHORT DIMENSION 3. ADJUST LOUVER BLADES TO ANGLE SHOWN ON PLANS.
D	RETURN	12"x12"	8"x8"	NOTE 2	OPPOSED BLADE DAMPER	WHITE	ALUMINUM	EGG CRATE	80	1. FURNISH WITH OPPOSED BLADE DAMPER, ADJUSTABLE FROM THE FRONT OF GRILLE.
E	RETURN	24"x24"	18"x18"	NOTE 2	OPPOSED BLADE DAMPER	WHITE	STEEL	PERFORATED	PDDR	1. FURNISH WITH OPPOSED BLADE DAMPER, ADJUSTABLE FROM FRONT OF GRILLE.
F	RETURN	NECK SIZE + FRAME	12"x6" (FIELD VERIFY)	NOTE 2	OPPOSED BLADE DAMPER	WHITE	STEEL	PERFORATED	PDDR	1. FURNISH WITH OPPOSED BLADE DAMPER, ADJUSTABLE FROM FRONT OF GRILLE.
G	RETURN	NECK SIZE + FRAME	24"x8"	WALL	OPPOSED BLADE DAMPER	WHITE	ALUMINUM	LOUVERED	635	1. BLADES HORIZONTAL 2. 45° DEFLECTION 3. 3/8" BLADE SPACING
H	RETURN	NECK SIZE + FRAME	30"x30"	WALL		WHITE	STEEL	LOUVERED, HEAVY DUTY	90	1. BLADES HORIZONTAL 2. 0° DEFLECTION 3. 3/8" BLADE SPACING

NOTES:
1. MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL CEILING PLAN AND COORDINATE FRAME TYPE ACCORDINGLY.

CONDENSING UNIT SCHEDULE																					
UNIT ID	UNIT SERVED	NOMINAL TONNAGE	DESIGN AMBIENT (°F)	NO. OF FANS	COMPRESSOR			REFRIGERANT			ELECTRICAL				DISCONNECT			UNIT WEIGHT (LBS)	MANUFACTURER / MODEL NO.		
					NO.	TYPE	STAGES	TYPE	CIRCUIT S	LIQUID (IN)	SUCTION (IN)	MOCP	MCA	VOLTS	PHASE	FURN. BY	INST. BY			TYPE	
CU-1	DOAS-1	5	95	1	1	SCROLL	2	R454B	1	3/8	1-1/8	60	35	208	1	ELEC.	ELEC.	NON-FUSED SWITCH	275	TRANE 4TRR6060	
CU-2	DOAS-2	5	95	1	1	SCROLL	2	R454B	1	3/8	1-1/8	60	35	208	1	ELEC.	ELEC.	NON-FUSED SWITCH	275	TRANE 4TRR6060	

NOTES:
1. INSTALL ON SQUARE COMPOSITE PAD, APPROXIMATELY 36" X 36" X 3".

PUMP SCHEDULE												
UNIT ID	SYSTEM SERVED	TYPE	FLOW (GPM)	HEAD (FT)	ELECTRICAL			DISCONNECT			MANUFACTURER / MODEL NO.	
					HP	VOLTS	PHASE	FURN. BY	INST. BY	TYPE		
P-1	DOAS-1	IN-LINE	8	25	1/6	115	1	ELEC.	ELEC.	NON-FUSED SWITCH	BELL & GOSSETT PL-36	
P-2	DOAS-2	IN-LINE	8	25	1/6	115	1	ELEC.	ELEC.	NON-FUSED SWITCH	BELL & GOSSETT PL-36	

NOTES:
1. PERFORMANCE IS BASED ON WATER UNLESS NOTED OTHERWISE.
2. PUMPS SHALL BE NON-OVERLOADING.
3. WHEN VFD CONTROL IS SPECIFIED, PROVIDE WITH NEMA PREMIUM EFFICIENT MOTOR WITH AEGIS SHAFT GROUNDING RINGS.

DESTRATIFICATION FAN SCHEDULE													
UNIT ID	AREA SERVED	MAX RPM	CONTROL	ELECTRICAL			DISCONNECT				UNIT WEIGHT (LBS)	MANUFACTURER / MODEL NO.	
				AMPS	WATTS	VOLTS	PHASE	FURN. BY	INST. BY	TYPE			
ALTERNATE #2	DF-1	GYMNASIUM	1650	BUILDING AUTOMATION	1.9	154	120	1	MANUF.	MANUF.	CORD AND PLUG	14	AIRIUS A-45-EC-STD-100-130-X
ALTERNATE #2	DF-2	GYMNASIUM	1650	BUILDING AUTOMATION	1.9	154	120	1	MANUF.	MANUF.	CORD AND PLUG	14	AIRIUS A-45-EC-STD-100-130-X
ALTERNATE #2	DF-3	GYMNASIUM	1650	BUILDING AUTOMATION	1.9	154	120	1	MANUF.	MANUF.	CORD AND PLUG	14	AIRIUS A-45-EC-STD-100-130-X
ALTERNATE #2	DF-4	GYMNASIUM	1650	BUILDING AUTOMATION	1.9	154	120	1	MANUF.	MANUF.	CORD AND PLUG	14	AIRIUS A-45-EC-STD-100-130-X
ALTERNATE #2	DF-5	GYMNASIUM	1650	BUILDING AUTOMATION	1.9	154	120	1	MANUF.	MANUF.	CORD AND PLUG	14	AIRIUS A-45-EC-STD-100-130-X
ALTERNATE #2	DF-6	GYMNASIUM	1650	BUILDING AUTOMATION	1.9	154	120	1	MANUF.	MANUF.	CORD AND PLUG	14	AIRIUS A-45-EC-STD-100-130-X
ALTERNATE #2	DF-7	GYMNASIUM	1650	BUILDING AUTOMATION	1.9	154	120	1	MANUF.	MANUF.	CORD AND PLUG	14	AIRIUS A-45-EC-STD-100-130-X

NOTES:
1. INTEGRATE FANS INTO BUILDING AUTOMATION SYSTEM. FURNISH ONE (1) AIRIUS "BAC24" PER FAN TO ALLOW FOR DIRECT FAN STATUS AND CONTROL BY TEMPERATURE CONTROLS CONTRACTOR. REFER TO TEMPERATURE CONTROLS DRAWING FOR SEQUENCE OF OPERATION.
2. PROVIDE EACH FAN WITH 6' CORD AND PLUG.
3. PROVIDE EACH FAN WITH 6' STEEL CABLE.

OUTSIDE AIR VENTILATION REQUIREMENTS							
ROOM/SPACE	OCCUPANCY CLASSIFICATION	SF	OCCUPANT DENSITY (P/1000 SF)	OCCUPANTS	OUTSIDE AIR FLOWRATE		OA REQUIRED (CFM)
					CFM/ PERSON	CFM/SF	
183 TOILET	TOILET ROOMS PUBLIC	-	-	-	-	-	
184 OFFICE	OFFICE SPACES	132	5	1	5	0.06	13
185 STORAGE	STORAGE ROOMS	131	0	0	0	0.12	16
186 GIRL'S LOCKER ROOM	LOCKER/DRESSING ROOMS	-	-	-	-	-	-
187 SHOWER	SHOWER ROOM	-	-	-	-	-	-
188 TOILET	TOILET ROOMS PUBLIC	-	-	-	-	-	-
189 TOILET	TOILET ROOMS PUBLIC	-	-	-	-	-	-
190 SHOWER	SHOWER ROOM	-	-	-	-	-	-
191 BOY'S LOCKER ROOM	LOCKER/DRESSING ROOMS	-	-	-	-	-	-
192 STORAGE	STORAGE ROOMS	209	0	0	0	0.12	25
193 TOILET	TOILET ROOMS PUBLIC	-	-	-	-	-	-
194 OFFICE	OFFICE SPACES	144	5	1	5	0.06	14
195 TRAINING	OFFICE SPACES	151	5	1	5	0.06	14
TOTAL							82

PROJECT: COLEMAN COMMUNITY SCHOOLS JR./SR. HIGH SCHOOL SYSTEM DESCRIPTION: ROOFTOP UNIT DEDICATED OUTSIDE AIR UNIT		BAS INPUT/OUTPUT SUMMARY FORM																			APPLICATION SOFTWARE					NOTES			
		HARDWARE POINTS																											
		INPUTS							OUTPUTS																				
		DIGITAL			ANALOG				DIGITAL			ANALOG																	
SYM.	POINT DESCRIPTION	AUX CONTACTS	DPS	CURRENT SWITCH	FLOW SWITCH	STATUS	PRESSURE	TEMPERATURE	HUMIDITY	LEVEL	POSITION	CURRENT	DIFF PRESSURE	START/STOP	OPEN/CLOSE	OFF/AUTO	DAMPER POSITION	VALVE POSITION	CONTROL	VSD/ANE DAMPER	SPEED	SETPOINT DISP & ADJ	HIGH/LOW ALARM	FLOATING ALARM	ABNORMAL ALARM	RUNTIME TOTALS	TOTALIZATION		
RTU-1 RTU-2	SUPPLY FAN START/STOP													X															
	SUPPLY FAN STATUS					X																			X				
	SUPPLY FAN SPEED																				X								
	OUTSIDE AIR DAMPER COMMAND																	X											
	EXHAUST/RELIEF AIR DAMPER COMMAND																	X											
	MIXED AIR TEMPERATURE							X																					
	DISCHARGE AIR TEMPERATURE							X																					
	FREEZE STAT STATUS					X																			X				
	COOLING COMMAND														X														
DOAS-1 DOAS-2 P-1 P-2	GAS VALVE STAGING															X													
	RETURN AIR CO2 CONCENTRATION									X																			
	BAS INTERFACE																												
	SUPPLY FAN START/STOP													X															
	SUPPLY FAN STATUS					X																			X				
	SUPPLY FAN SPEED																				X								
	EXHAUST FAN START/STOP													X															
	EXHAUST FAN STATUS					X																				X			
	EXHAUST FAN SPEED																				X								
	OUTSIDE AIR DAMPER COMMAND																	X											
	EXHAUST/RELIEF AIR DAMPER COMMAND																	X											
	MIXED AIR TEMPERATURE								X																				
	DISCHARGE AIR TEMPERATURE								X																				
FREEZE STAT STATUS						X																			X				
COOLING COMMAND														X															
HEATING COIL VALVE COMMAND																	X												
HEATING PUMP START/STOP														X															
HEATING PUMP STATUS						X																				X			
RETURN AIR CO2 CONCENTRATION										X																			
BAS INTERFACE																													
																													3RD PARTY INTEGRATION VERIFY BACNET/IP

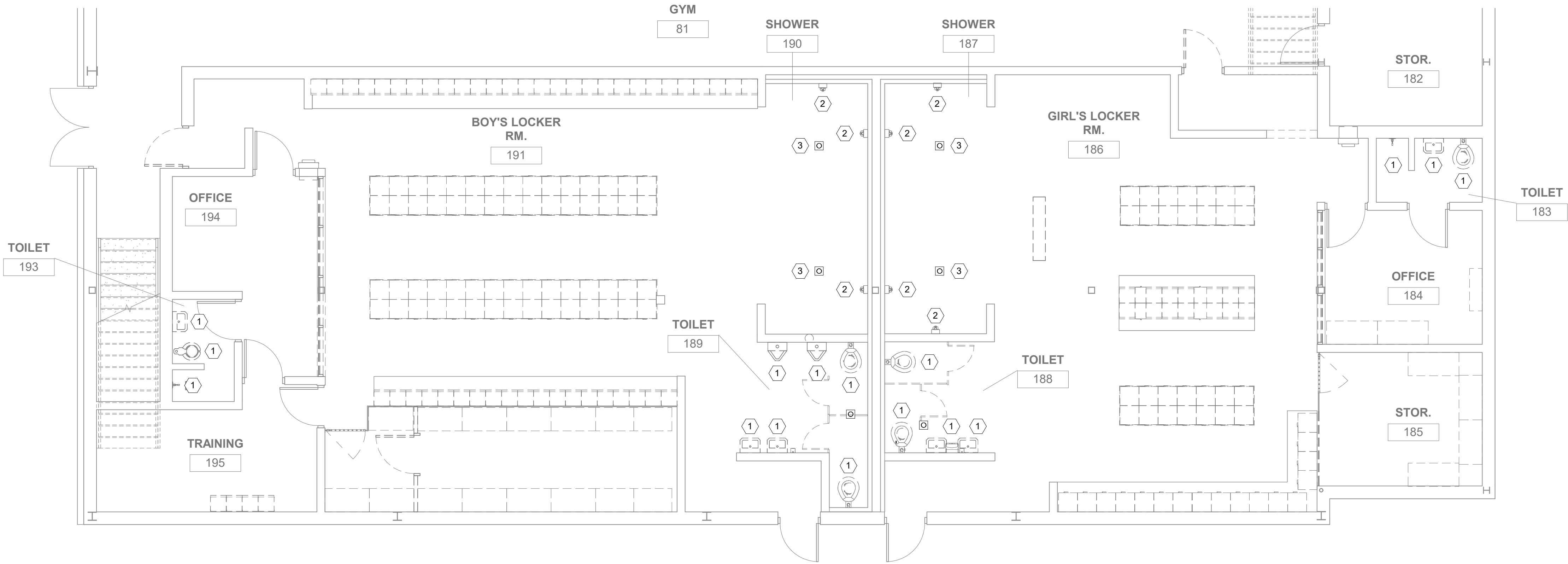
THE CURRENT TEMPERATURE CONTROLS CONTRACTOR IS CCS HAVEL. THE EXISTING BUILDING AUTOMATION SYSTEM UTILIZES SCHNEIDER ELECTRIC CONTROLLERS IN A BACNET IP LOOP

PACKAGED ROOFTOP UNITS WITH GAS HEAT AND DX COOLING (RTU-1, RTU-2)

1. PACKAGED ROOFTOP UNITS SHALL BE FACTORY FURNISHED WITH ELECTROMECHANICAL CONTROLS. CONTROLS CONTRACTOR SHALL FIELD INSTALL A CONTROLLER ON THE PACKAGED ROOFTOP UNIT THAT INTEGRATES WITH THE BAS TO PROVIDE THE CONTROL SEQUENCE FUNCTIONS DESCRIBED.
2. BAS SYSTEM SHALL PROVIDE SPACE TEMPERATURE SET-POINT CONTROL FOR ROOFTOP UNITS.
3. THE BAS SYSTEM CONTROLLER SHALL SEND THE RTU CONTROLLER START/STOP INITIATION, OCCUPIED/UNOCCUPIED TIME SCHEDULING FUNCTIONS, MORNING WARM-UP/PRECOOL, AND HEATING/COOLING MODES.
4. DURING UNOCCUPIED MODE, THE RTU SHALL SHUT-OFF. IF THE ZONE TEMPERATURE DRIFTS TO THE UNOCCUPIED HEATING OR COOLING SETPOINT, THE RTU SHALL START AND PROVIDE THE NECESSARY HEATING OR COOLING TO SATISFY THE ZONE TEMPERATURE. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED UNLESS ECONOMICIZING.
5. THE SYSTEM CONTROLLER SHALL AUTOMATICALLY DETERMINE THE OPTIMUM START TIME SO THAT EACH ZONE REACHES ITS OCCUPIED SETPOINT IN TIME FOR THE SCHEDULED OCCUPANCY.
6. FOR THOSE ZONES EQUIPPED WITH AN OCCUPANCY SENSOR OR WITH A CO2 SENSOR, OUTDOOR AIRFLOW SHALL BE RESET BASED ON OCCUPANCY STATUS AND OR MEASURED CO2 CONCENTRATION.
7. OUTSIDE AIR QUANTITY FOR A UNIT SERVING A SINGLE ZONE SHALL BE DETERMINED BY A WALL MOUNTED CO2 SENSOR LOCATED WITHIN THE SPACE.
8. GAS BURNER STAGING/FIRING MODULATION, DAMPER POSITION/MODULATION, COOLING COMPRESSOR AND CONDENSER FAN SEQUENCING AS WELL AS ENERGY RECOVERY COMPONENT CONTROL SHALL BE PERFORMED BY THE FACTORY INSTALLED MICROPROCESSOR CONTROLS.
9. RTU FAN STATUS SHALL BE PROVEN THRU THE BAS AND AN ALARM SENT IF AT ANY TIME THE FAN STOPS OPERATING WHEN PROGRAMMED TO BE ON.

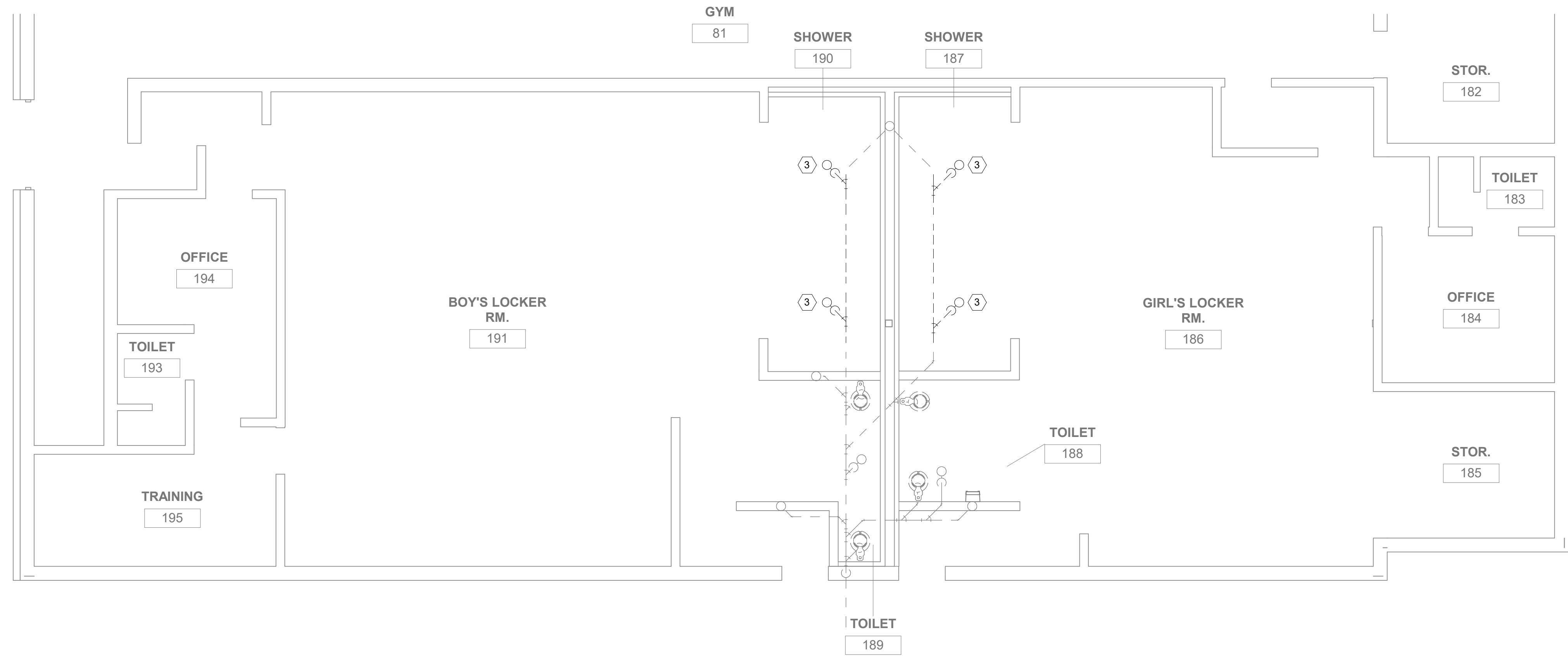
DIRECT OUTSIDE AIR SYSTEM WITH STATIC PLATE ENERGY RECOVERY CORE (DOAS)

1. WHEN DOAS IS INDEXED TO RUN, A 30-SECOND DELAY SHALL BE INITIATED AND ANY OUTSIDE AND EXHAUST AIR DAMPERS, AS WELL AS ANY NORMALLY CLOSED AUTOMATIC SMOKE DAMPERS INSTALLED IN THE DUCT WORK SHALL OPEN 100% AND MAKE THE END-SWITCH CONTACT TO PROVE OPEN. WHEN THE DOAS IS SHUT DOWN FOR ANY REASON, THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL BE DRIVEN CLOSED.
2. WHEN THE SUPPLY FAN HAS STARTED, THE EXHAUST FAN AND ANY OTHER INTERLOCKED EXHAUST FANS SHALL START AND OPERATE. IF THE SUPPLY FAN DOES NOT OPERATE FOR ANY REASON, AS INDICATED BY THE CURRENT SENSING RELAY, THE EXHAUST AIR FAN SERVING THE DOAS SHALL BE DE-ENERGIZED.
3. BAS SHALL MODULATE SIGNAL TO SUPPLY FAN ECM TO MAINTAIN SCHEDULED CFM AS MEASURED BY THE AIRFLOW MEASURING STATION.
4. BAS SHALL MODULATE SIGNAL TO EXHAUST FAN ECM AS REQUIRED TO MAINTAIN THE AIRFLOW OFFSET AS INDICATED IN THE FAN SCHEDULE.
5. BAS SHALL MAINTAIN A SUPPLY AIR DISCHARGE TEMPERATURE OF 55 F (ADJ.).
6. IN FULL HEATING MODE THE HEATING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SET-POINT. WHENEVER THE DISCHARGE AIR TEMPERATURE IS ABOVE SET-POINT, THE FOLLOWING SHALL OCCUR:
 - A. HEATING COIL VALVE SHALL MODULATE CLOSED.
 - B. CONDENSING UNIT SHALL BE ENABLED AND MODULATE TO MAINTAIN SET-POINT. NOTE: CONDENSING UNIT SHALL BE CONTROLLED BY A MANUFACTURER PROVIDED CONTROLLER WITH BACNET BASED INTERFACE (FIELD VERIFY WITH SUCCESSFUL TCC) TO CONNECT TO BAS.
 - C. CONDENSING UNIT SHALL CONTINUE TO MODULATE TO MAINTAIN DISCHARGE SET-POINT.
7. AT FULL COOLING THE CONDENSING UNIT MODULATES TO MAINTAIN SET-POINT. WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW SET-POINT THE FOLLOWING SHALL OCCUR:
 - A. CONDENSING UNIT SHALL CONTINUE TO MODULATE LOWER TO MAINTAIN SET-POINT.
 - B. CONDENSING UNIT SHALL BE DISABLED BELOW 50 F (ADJ.).
 - C. THE HEATING CONTROL VALVE SHALL MODULATE OPEN AND HEATING COIL PUMP SHALL RUN AS FURTHER DESCRIBED BELOW TO MAINTAIN SET-POINT.
8. WHEN OUTSIDE AIR TEMPERATURE LEAVING ENERGY CORE RISES ABOVE 38 F (ADJ) FOR 10 MINUTES (ADJ), HEATING WATER COIL CIRCULATION PUMP SHALL OPERATE ONLY WHEN HEATING IS CALLED FOR (HEATING WATER VALVE IS COMMANDED 100% OPEN WHEN PUMP IS ON). WHEN OUTSIDE AIR TEMPERATURE LEAVING THE ENERGY CORE DROPS BELOW 38 F, HEATING WATER COIL CIRCULATION PUMP SHALL OPERATE CONTINUOUSLY (FOR A MINIMUM OF 10 MINUTES TO PREVENT SHORT CYCLING) AND CONTROL VALVE SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE.
9. WHEN BUILDING FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, DOAS SHALL BE SHUT DOWN.



PLUMBING DEMOLITION PLAN ABOVE GROUND

3/16" = 1'-0"



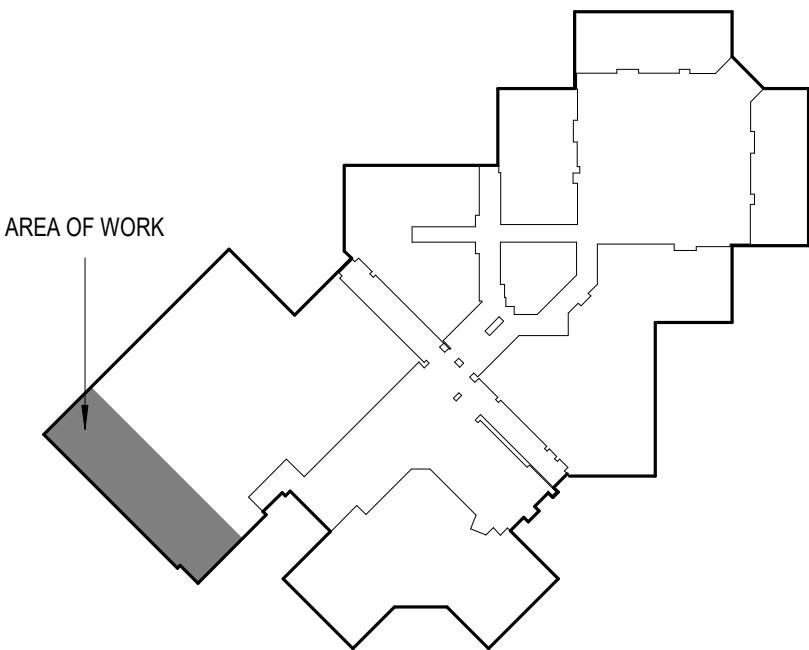
PLUMBING DEMOLITION PLAN UNDERGROUND

3/16" = 1'-0"

KEYNOTES

1. REPLACE PLUMBING FIXTURE.
2. REMOVE SHOWER FIXTURE. FOR FIXTURES NOT ON THE SHARED WET WALL, REMOVE PIPING BACK TO A POINT BEHIND WALL AND CAP. FOR FIXTURES ALONG THE SHARED WET WALL, REMOVE PIPING BACK TO WALL AND PREP FOR NEW CONNECTIONS.
3. REMOVE FLOOR DRAIN, TRAP, AND SECTION OF WASTE PIPE. REFER TO NEW WORK FOR EXTENT OF DEMOLITION AND PIPING REWORK. CUTTING OF SLAB REQUIRED.

KEYPLAN



ARCHITECTURE
ENGINEERING
CONSULTING

INTEGRATED DESIGNS, INC.

COLEMAN JR & SR HIGH SCHOOL
2026 MISCELLANEOUS RENOVATION PROJECTS
4951 N. LEWIS RD, COLEMAN, MI. 48618
PROJECT NO. 21-949

DESIGNED	BY	NO.	REVISIONS	DATE
DRAWN	CRP	A	SCHEMATIC DESIGN	04.30.26
CHECKED	CRP	B	DESIGN DEVELOPMENT	06.18.26
APPROVED	SLB	C	90% REVIEW	08.20.26
	SLB	D	FOR CONSTRUCTION	10.08.26

PLUMBING DEMOLITION PLAN

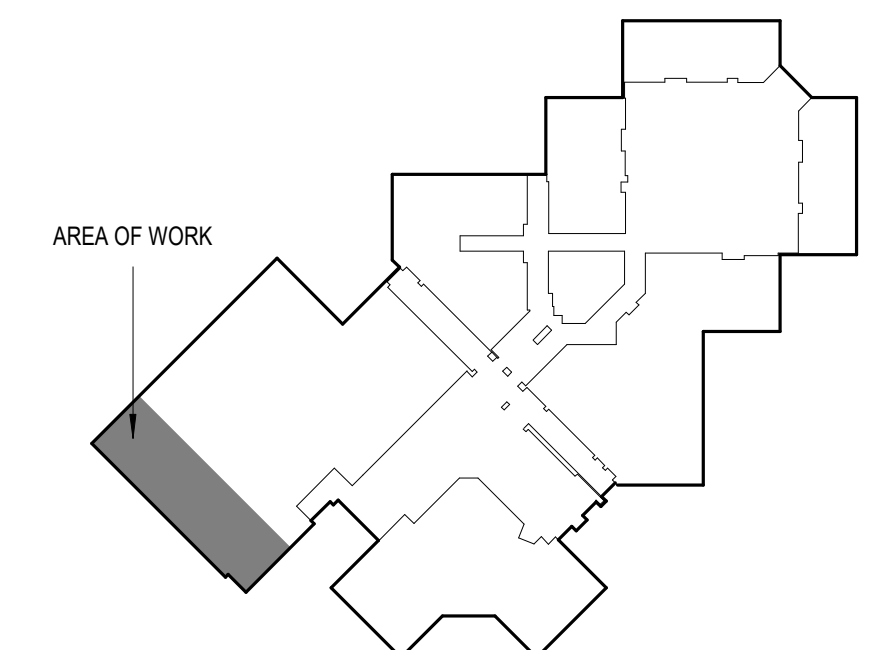
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P1.0



1. INSTALL NEW PANEL SHOWER FIXTURES IN LOCATION SHOWN. EXTEND/REWORK PLUMBING PIPING TO SERVE SHOWERS ALONG FACE OF WALL. INSTALL STEEL SHEET METAL ENCLOSURE OVER PIPE. REFER TO DETAIL ON SHEET P3.0 FOR ADDITIONAL INFORMATION.
2. REPLACE HOSE BIB ON WALL BENEATH LAVATORY.
3. SANITARY PIPE REWORK WILL REQUIRE REMOVAL OF CONCRETE SLAB AND EXPLORATORY DIGGING TO DETERMINE EXACT LOCATION. COORDINATE INSTALLATION OF NEW TRENCH DRAIN ELEVATION WITH FLOOR SLOPE AS INDICATED BY ARCHITECTURAL AND STRUCTURAL TRADES.
4. CLEAN/FLUSH EXISTING FLOOR DRAIN. INSTALL "SURESEAL" WATERLESS IN-LINE TRAP SEAL, AND REPLACE EXISTING FLOOR DRAIN STRAINER COVER.

KEYPLAN



PLUMBING NEW WORK PLAN

P2.0

DESIGNED	BY	NO.	REVISIONS	DATE
DRAWN	CRP	A	SCHEMATIC DESIGN	04/30/26
CHECKED	CRP	B	DESIGN DEVELOPMENT	06/19/26
APPROVED	SLB	C	90% REVIEW	08/20/26
	SLB	0	FOR CONSTRUCTION	10/09/26

COLEMAN JR & SR HIGH SCHOOL
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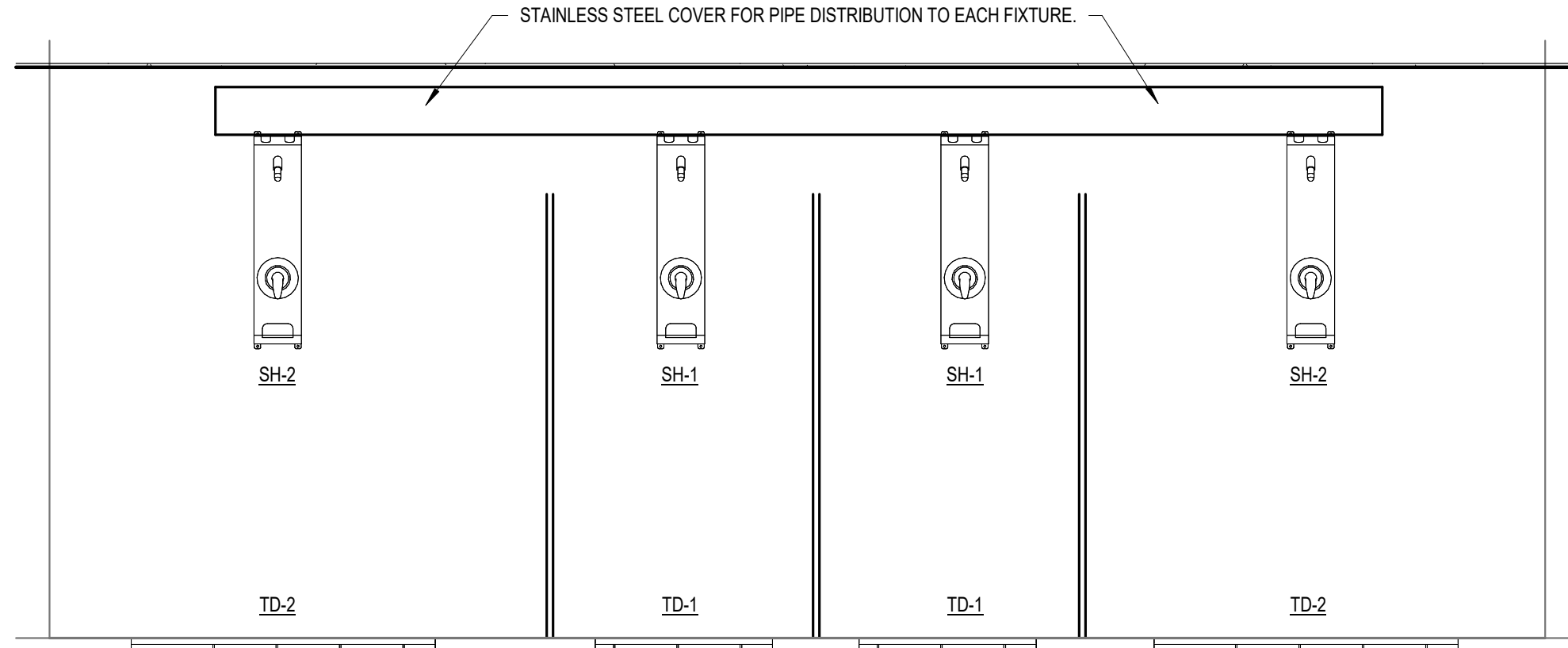
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PLUMBING FIXTURE SCHEDULE - IDI TYP					
SYM	DESCRIPTION	W	V	HW	CW
FD-1	FLOOR DRAIN COVER/GRATE ONLY - JAY R. SMITH LIGHT-DUTY, ROUND, STAINLESS STEEL WITH SQUARE HOLES. FURNISH WITH "SURESEAL" WATERLESS INLINE DRAIN TRAP SEAL. *FIELD VERIFY FOR EXACT SIZE AND ATTACHMENT TYPE.	-	-	-	-
HB-1	HOSE BIB - PRIER #P-264 WALL HYDRANT, ANTI-SIPHON ALUMINUM VACUUM BREAKER WITH EPDM BACKFLOW PREVENTER AND BACKFLOW CHECK VALVE; QUARTER-TURN SOFT-GRIP COATED CAST ALUMINUM HANDLE; INTEGRAL CAST FLANGE; SOLID BRASS BODY, VALVE STEM CAP, SEAT AND STEM ENDS; SATIN NICKEL FINISH BODY; VANDAL PROOF EXTENDED LOOKSHIELD AND OPERATING KEY. *FIELD VERIFY EXISTING CONNECTION TYPE FOR INLET STYLE AND LENGTH REQUIRED.	-	-	-	*1/2"
L-1	LAVATORY - SLOAN #SS-3006 WALL-MOUNTED VITREOUS CHINA WITH LEDGEBACK, REAR OVERFLOW, 3-HOLE WITH 4" CENTERSET. FAUCET: SLOAN #SF-2350 SENSOR OPERATED, BATTERY POWERED, DECK-MOUNTED, MID INTEGRATED BASE BODY, 3-HOLE WITH 4" CENTERSET. FURNISH WITH: 1. ASSE 1070 COMPLIANT MIXING VALVE. 2. MCQUIRE #LFBV SERIES QUARTER-TURN BALL VALVES WITH LOOSE KEY HANDLES. 3. MCQUIRE #VBRC2 VANDAL RESISTANT TRAP WITH CLEANOUT AND WALL FLANGE. 4. MCQUIRE #HD155A POLISHED CHROME OPEN GRID PLUG, AND TAILPIECE. 5. FLEXIBLE BRAIDED STAINLESS HOSES. 6. CHROME PLATED EXCUTYCON PLATES.	1-1/2"	1-1/2"	1/2"	1/2"
SH-1	SHOWER PANEL - ACORN #450B, SURFACE MOUNTED SHOWER SYSTEM HEAD: ACORN "CSH-WSA" LIGATURE RESISTANT, CHROME-PLATED, 1.5 GPM FLOW RESTRICTOR VALVE; ACORN "48" TEMPERATURE-PRESSURE BALANCING MIXING VALVE WITH TRI-LEVER HANDLE (ASSE 1016 COMPLIANT) SOAP DISH: ACORN "D" SURFACE MOUNTED FURNISH WITH: 1. STAINLESS STEEL SUPPLY COVER: ACORN "SC" AND "SCH" AS NEEDED FOR VERTICAL AND HORIZONTAL PIPING TO EACH SHOWER.	-	-	1/2"	1/2"
SH-2	SHOWER PANEL - ACORN #450BADA, SURFACE MOUNTED SHOWER SYSTEM, ADA COMPLIANT HEAD: QUICK DISCONNECT HANDHELD SHOWER WITH ON/OFF PUSHBUTTON, VACUUM BREAKER AND FLOW CONTROL. VALVE; ACORN "48" TEMPERATURE-PRESSURE BALANCING MIXING VALVE WITH TRI-LEVER HANDLE (ASSE 1016 COMPLIANT) SOAP DISH: ACORN "D" SURFACE MOUNTED FURNISH WITH: 1. STAINLESS STEEL SUPPLY COVER: ACORN "SC" AND "SCH" AS NEEDED FOR VERTICAL AND HORIZONTAL PIPING TO EACH SHOWER. NOTE: 1. BENCH AND GRAB BARS BY OTHERS (IF REQUIRED). 2. ALL CONTROLS, SOAP DISH, ETC. MUST BE 38" TO 48" ABOVE FINISHED FLOOR TO BE WITHIN REACH OF SEATED BATHER.	-	-	1/2"	1/2"
TD-1	LINEAR SHOWER DRAIN - ZURN #ZS880, 4.5" WIDE x 28" LONG STAINLESS STEEL, WITH VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL, 2" NO-HUB OUTLET, ADJUSTABLE SECURED LEVELING FRAME WITH BUILT-IN TILING EDGE, SECURED LIGHT DUTY SLOTTED HEEL PROOF GRATE. DESIGNED FOR INSTALLATION IN MINIMUM 2" CONCRETE POUR.	2"	-	-	-
TD-2	LINEAR SHOWER DRAIN - ZURN #ZS880, 4.5" WIDE x 28" LONG STAINLESS STEEL, WITH VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL, 2" NO-HUB OUTLET, ADJUSTABLE SECURED LEVELING FRAME WITH BUILT-IN TILING EDGE, SECURED LIGHT DUTY SLOTTED HEEL PROOF GRATE. DESIGNED FOR INSTALLATION IN MINIMUM 2" CONCRETE POUR.	2"	-	-	-
UR-1	URINAL - SLOAN #SU-1009 WALL-MOUNTED, VITREOUS CHINA, WASHDOWN, INTEGRAL FLUSHING RIM FLUSH VALVE - SLOAN #G2 8186 EXPOSED SENSOR OPERATED, BATTERY POWERED, 1.0 GPF, SEMI-RED BRASS COMPONENTS	2"	1-1/2"		3/4"
WC-1	WATER CLOSET - SLOAN #ST-2009 FLOOR-MOUNTED, ELONGATED, VITREOUS CHINA, SIPHON JET FLUSHING, STANDARD HEIGHT (RIM HEIGHT 15") FLUSH VALVE - SLOAN #G2 8111 EXPOSED SENSOR OPERATED, BATTERY POWERED, 1.6 GPF, SEMI-RED BRASS COMPONENTS				



NEW SHOWER WALL
1 1/2" = 1'-0"

ELECTRICAL SYMBOL LIST

NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT

	2'x2' RECESSED LIGHTING FIXTURE		DUPLEX RECEPTACLE		NON-FUSED DISCONNECT SWITCH XA - AMP RATING / XP - POLES QUANTITY / XV - VOLTAGE RATING		FIRE ALARM MANUAL PULL STATION
	2'x4' RECESSED LIGHTING FIXTURE		ABOVE COUNTER DUPLEX RECEPTACLE		FUSED DISCONNECT SWITCH XA - AMP RATING / XP - POLES QUANTITY / XV - VOLTAGE RATING / XAF - FUSE RATING		SMOKE DETECTOR
	2'x2' SURFACE MOUNTED LIGHTING FIXTURE		QUAD RECEPTACLE		STARTER SWITCH		DUCT MOUNTED SMOKE DETECTOR
	2'x4' SURFACE MOUNTED LIGHTING FIXTURE		ABOVE COUNTER QUAD RECEPTACLE		BRANCH CIRCUIT BREAKER PANEL		CARBON MONOXIDE DETECTOR
	PENDANT DECORATIVE LIGHTING FIXTURE DOWNLIGHT		SPECIALTY RECEPTACLE		DISTRIBUTION PANEL		HEAT DETECTOR
	PENDANT LINEAR LIGHTING FIXTURE		CEILING MOUNTED DUPLEX RECEPTACLE		TRANSFORMER		TAMPER SWITCH
	HIGH-BAY LIGHTING FIXTURE		HARD WIRED POWER CONNECTION		AUTOMATIC TRANSFER SWITCH		FLOW SWITCH
	WALL MOUNTED LIGHTING FIXTURE		FLOORBOX / POKE-THROUGH		BELL DEVICE		MAGNETIC DOOR HOLD OPEN
	WALL SCONCE		JUNCTION BOX		WALL MOUNTED SPEAKER		WALL MOUNTED AUDIO FIRE ALARM DEVICE XXcd - CANDELA RATING
	POLE MOUNTED LIGHTING FIXTURE		POWER POLE		CELING MOUNTED SPEAKER		CEILING MOUNTED AUDIO FIRE ALARM DEVICE XXcd - CANDELA RATING
	LIGHTED EXIT SIGN WITH DIRECTIONAL ARROWS SHADED AREA INDICATEDS FACE		RACEWAY		WALL MOUNTED SINGLE FACE CLOCK		WALL MOUNTED VISUAL FIRE ALARM DEVICE XXcd - CANDELA RATING
	LIGHTED EXIT SIGN - WALL MOUNTED		CORD REEL		CELING MOUNTED SINGLE FACE CLOCK		CELING MOUNTED VISUAL FIRE ALARM DEVICE XXcd - CANDELA RATING
	EMERGENCY LIGHTING UNIT		MOTORIZED SWITCH		WALL MOUNTED DOUBLE FACE CLOCK		WALL MOUNTED COMBO VISUAL & AUDIO FIRE ALARM DEVICE XXcd - CANDELA RATING
	WALL STATION X - WALL STATION TYPE		PUSH BUTTON		CEILING MOUNTED DOUBLE FACE CLOCK		CEILING MOUNTED COMBO VISUAL & AUDIO FIRE ALARM DEVICE XXcd - CANDELA RATING
	SINGLE POLE TOGGLE SWITCH		DATA OUTLET 'X' INDICATES PORT COUNT		INTERCOM		FIRE ALARM CONTROL PANEL
	3-WAY TOGGLE SWITCH		ABOVE COUNTER DATA OUTLET 'X' INDICATES PORT COUNT		DOOR RELEASE BUZZER		VAPE DETECTOR
	4-WAY TOGGLE SWITCH		CEILING MOUNTED DATA OUTLET 'X' INDICATES PORT COUNT		DOOR LOCK		
	WALL SENSOR/DIMMER SWITCH		WIRELESS ACCESS POINT		KEY PAD		
	WALL SENSOR SWITCH				CARD READER		
	KEY OPERATED SWITCH				DOOR POSITION SWITCH		
	AREA CONTROLLER				SECURITY CAMERA		
	REMOTE RELAY SWITCH						
	TIME CLOCK						
	OCCUPANCY SENSOR						
	PHOTOCELL						
	POWER PACK						

GENERAL NOTES

TYPICAL

- UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
- EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
- COORDINATE WITH CONSTRUCTION MANAGER REGARDING ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
- ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER. CONSTRUCTION MANAGER AND ENGINEER IN WHICH CASES WIREMOLD 700 (WHITE), OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING.

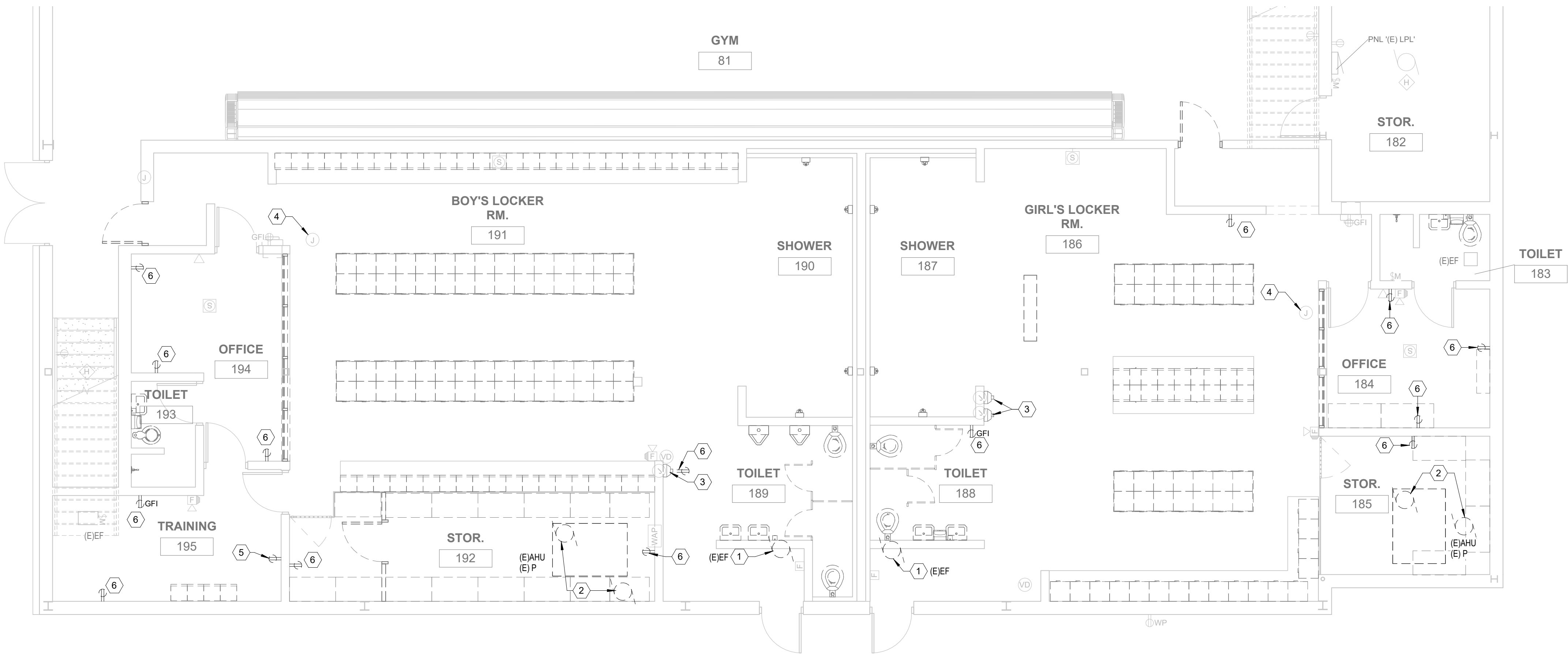
POWER

- ALL NEW RECEPTACLE DEVICES SHALL BE TAMPER RESISTANT (TR) TYPE.
- NOTIFY ARCHITECT/ENGINEER OF ANY IN FIELD OBSTRUCTIONS THAT INTERFERE WITH LOCATIONS OF NEW RECEPTACLES AND COORDINATE WORK AS REQUIRED.

LIGHTING

- LIGHTING ALTERATIONS SHALL COMPLY WITH ASHRAE STANDARD 90.1 2013, SECTION 9.1.2 OR ADDENDUM E OF THE 2015 SUPPLEMENT TO THIS STANDARD.
- REFER TO SHEET E3.0 FOR LIGHTING FIXTURE SCHEDULE.

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ELECTRICAL - DEMOLITION PLAN LOCKER ROOM
3/16" = 1'-0"



KEYNOTES

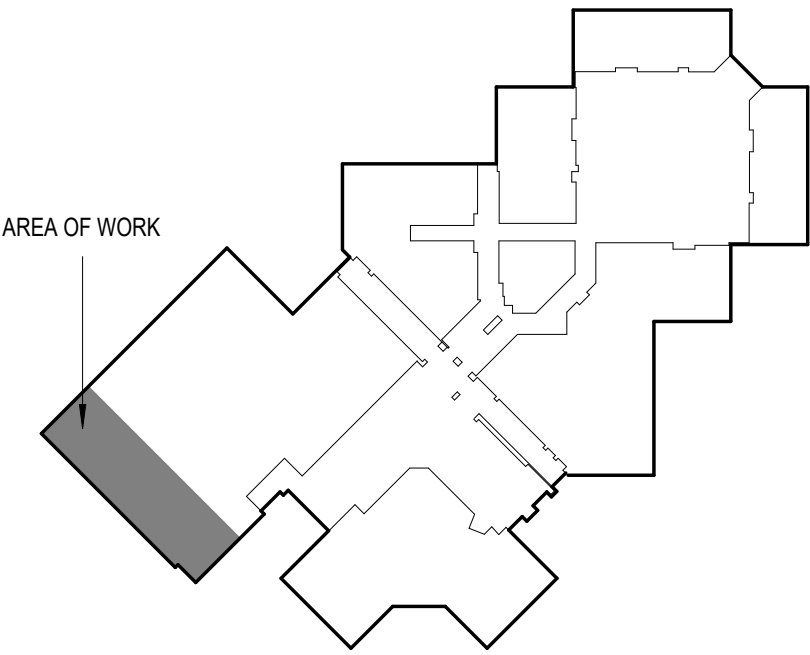


1. DISCONNECT EXISTING EXHAUST FAN AND REMOVE CIRCUITRY BACK TO SOURCE.
2. DISCONNECT EXISTING AIR HANDLING UNIT AND PUMP AND REMOVE CIRCUITRY BACK TO SOURCE. SEE NEW WORK PLANS FOR ADDITIONAL INFORMATION.
3. EXISTING HAND DRYER TO BE REPLACED, DISCONNECT AND RECONNECT TO NEW HAND DRYER. EXTEND WIRING AS REQUIRED.
4. EXISTING BLE LOCKDOWN LIGHT TO REMAIN.
5. EXISTING RECEPTACLE AND CIRCUITRY TO BE REMOVED TO ACCOMMODATE NEW CASEWORK. MAINTAIN CONTINUITY TO REMAINING RECEPTACLES.
6. REMOVE EXISTING RECEPTACLE. RETAIN CIRCUITRY FOR RE-USE.

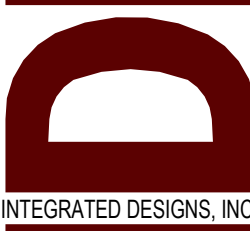
GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.

KEYPLAN



ARCHITECTURE
ENGINEERING
CONSULTING



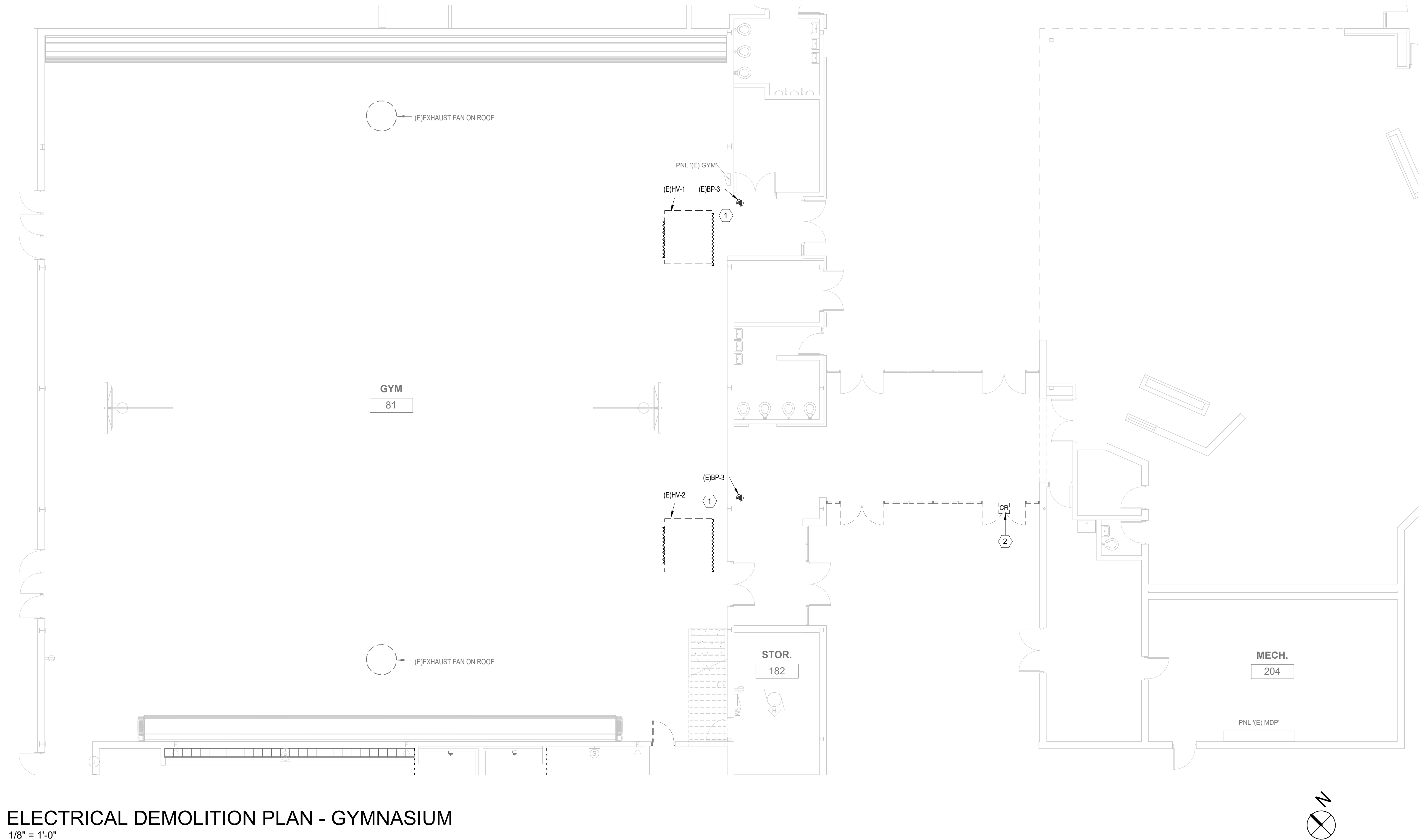
COLEMAN JR & SR HIGH SCHOOL
2026 MISCELLANEOUS RENOVATION PROJECTS
4951 N. LEWIS RD, COLEMAN, MI. 48618
PROJECT NO. 21-949

NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.30.26
B	DESIGN DEVELOPMENT	06.18.26
C	90% REVIEW	08.20.26
D	FOR CONSTRUCTION	10.08.26

ELECTRICAL DEMOLITION
ENLARGED PLAN - LOCKER
ROOMS
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E1.0

\\fs1\Users\Perkins\Documents\Drawings\Documents\Coleman High School - 2026 Locker Room Renovation
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ELECTRICAL DEMOLITION PLAN - GYMNASIUM
1/8" = 1'-0"

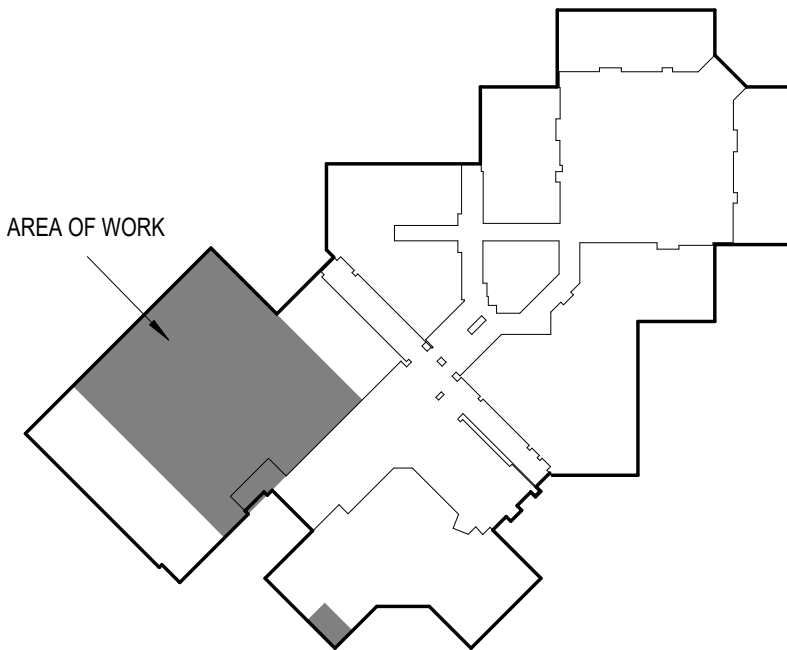


KEYNOTES



- BID ALT #2: DISCONNECT EXISTING AIR HANDLING UNIT AND PUMP. REMOVE CIRCUITRY BACK TO SOURCE.
- REMOVE AND RE-INSTALL CARD READER & DOOR CONTROLLER AS NECESSARY FOR DOOR REPLACEMENT. COORDINATE WITH ARCHITECTURAL TRADES FOR ELECTRONIC HARDWARE/WIRING NEEDS.

KEYPLAN



ELECTRICAL DEMOLITION
ENLARGED PLAN -
GYMNASIUM

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E1.1

COLEMAN JR & SR HIGH SCHOOL
2026 MISCELLANEOUS RENOVATION PROJECTS
4951 N. LEWIS RD, COLEMAN, MI. 48618

PROJECT NO. 21-949

DESIGNED	BY	NO.	REVISIONS	DATE
DRAWN	DKS	A	SCHEMATIC DESIGN	04.30.26
CHECKED	DKS	B	DESIGN DEVELOPMENT	06.18.26
APPROVED	BAD	C	90% REVIEW	08.20.26
	BAD	D	FOR CONSTRUCTION	10.08.26

ARCHITECTURE
ENGINEERING
CONSULTING
IDI
INTEGRATED DESIGNS, INC.

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10000 W. 10TH AVE. SUITE 300
BRIGHTON, MI 48116
PHONE (602)242-7001 FAX (602)242-6767

$$\frac{3}{16}'' = 1'-0''$$

$$3/16'' = 1'-0''$$
$$\frac{3}{16}'' = 1'-0''$$

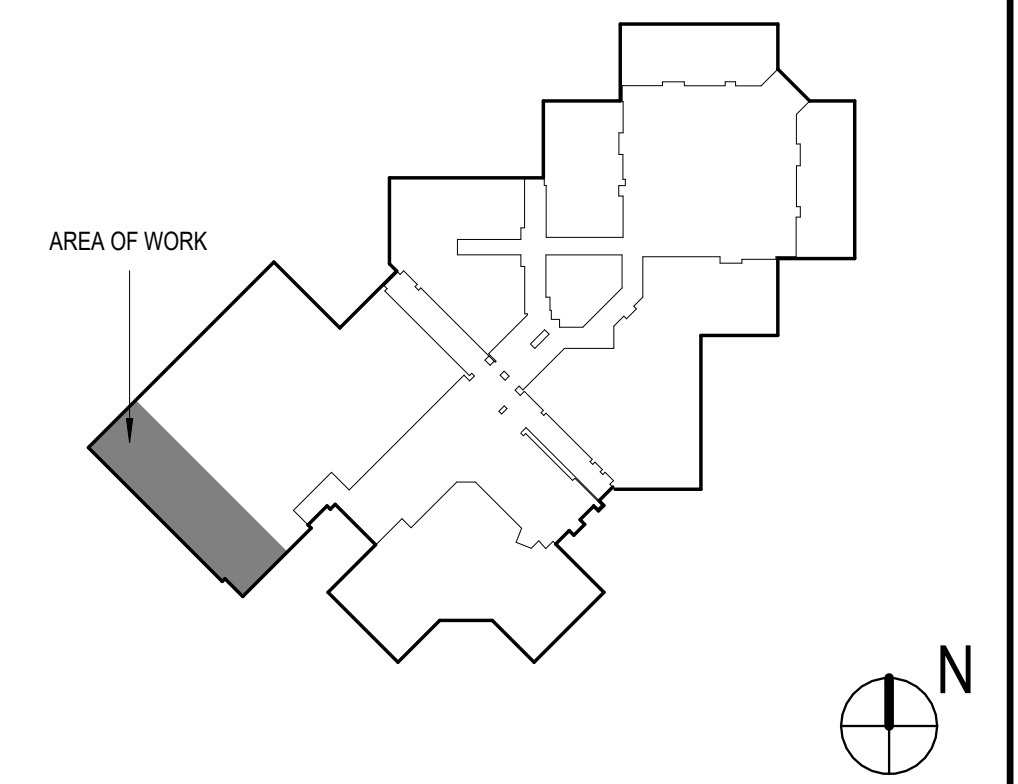
KEYNOTES

1. EXISTING BLE LOCKDOWN LIGHT.
2. FACTORY INSTALLED DISCONNECT SWITCH. PROVIDE BRANCH CIRCUITRY AS INDICATED.
3. FACTORY INSTALLED WEATHERPROOF GFI RECEPTACLE. PROVIDE BRANCH CIRCUITRY AS INDICATED.
4. PROVIDE 60A/2P, NEMA 3R, 240V, NON-FUSED DISCONNECT SWITCH MOUNTED ON OR NEAR ROOF MOUNTED UNIT. PROVIDE BRANCH CIRCUITRY AS INDICATED.
5. PROVIDE GFI RECEPTACLE PER SPECIFICATIONS. RE-USE EXISTING CIRCUITRY.
6. PROVIDE RECEPTACLE PER SPECIFICATIONS. RE-USE EXISTING CIRCUITRY.
7. PROVIDE HAND DRYER EQUAL TO WORLD DRYER VERDE#H-Q#974A. RE-USE EXISTING CIRCUITRY. MOUNT AT ADA HEIGHT. COORDINATE WITH ARCHITECTURAL. COVER EXISTING JUNCTION BOX WITH STAINLESS STEEL COVER. PROVIDE SURFACE MOUNTED RACEWAY AS NECESSARY DOWN TO THE NEW LOCATION.
8. PROVIDE HAND DRYER EQUAL TO WORLD DRYER VERDE#H-Q#974A. PROVIDE BRANCH CIRCUITRY AS INDICATED. MOUNT AT ADA HEIGHT, COORDINATE WITH ARCHITECTURAL.
9. PROVIDE NEW 100A PANEL. COORDINATE WITH OWNER AND CM TO FIELD VERIFY WALL SPACE PRIOR TO BIDDING. SEE PANEL SCHEDULES AND RISER DIAGRAM FOR ADDITIONAL DETAILS. ALSO SEE E2.1 FOR MDP LOCATION. CONTRACTOR TO FIELD VERIFY FEEDER ROUTING PRIOR TO BIDDING. FEEDER SIZE ON E4.0 BASED ON 200'.
10. PROVIDE NEW DUCT SMOKE DETECTOR TO MATCH EXISTING SIMPLEX FIRE ALARM SYSTEM. DOAS SHALL SHUT DOWN UPON DETECTION OF SMOKE. PROVIDE CONNECTION FROM SMOKE DETECTOR TO EXISTING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY BOXES, CONDUIT, WIRE, DEVICES, HARDWARE, PROGRAMMING, TESTING, ETC. FOR A COMPLETE AND PROPER INSTALLATION. PROVIDE AND INSTALL REMOTE TEST SWITCH BELOW UNIT.
11. PROVIDE HEAVY DUTY, MOTOR RATED 120V TOGGLE STYLE DISCONNECT SWITCH AND BRANCH CIRCUITRY AS INDICATED. CONTROLS BY OTHERS.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER. CONSTRUCTION MANAGER AND OWNER IN WHICH CASES WITHIN 100' OF CURB, OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING.

KEYPLAN





$$1/8'' = 1'-0''$$

$$1/8'' = 1'-0''$$

-

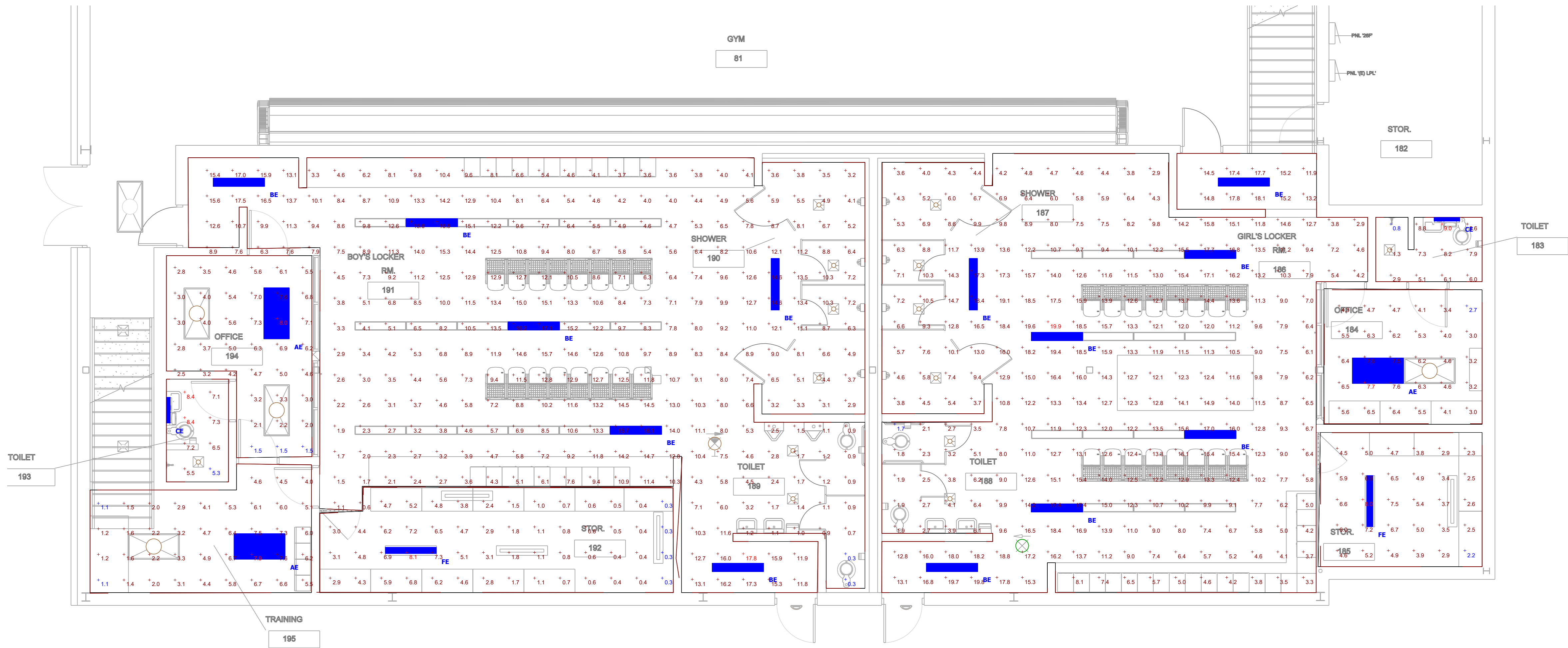


**ELECTRICAL NEW WORK
ENLARGED PLAN -
GYMNASIUM**
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Schedule						
Symbol	Label	QTY	Catalog Number	Description	Wattage	Lumen Multiplier
	BE	13	VL-C-3-40-LEDR-840-120V-EM10-CRM	8"x49" LINEAR SURFACE MOUNT LUMINAIRE WITH JOINER BAND	112	0.3
	CE	2	BL-A-3-20-LEDR-840-120V-EM10	2" WALL MOUNT LUMINAIRE	29	0.3
	FE	2	4WP3040R	4' UTILITY WRAP LIGHT PENDANT	34.5	0.3
	AE	3	24CZ-LD5-40-UNV-L835-CD1-U	CRUZE 2x4 RECESSED WITH DRYWALL KIT	35.3	0.3

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
BOY'S LOCKER RM	+	8.0 fc	17.8 fc	0.3 fc	59.3:1	26.7:1
GIRL'S LOCKER RM	+	10.5 fc	19.9 fc	1.7 fc	11.7:1	6.2:1
OFFICE 184	+	5.2 fc	7.7 fc	2.7 fc	2.9:1	1.9:1
OFFICE 194	+	4.4 fc	8.0 fc	1.5 fc	5.3:1	2.9:1
STOR. 192	+	2.8 fc	8.1 fc	0.3 fc	27.0:1	9.3:1
STORAGE 185	+	4.7 fc	8.0 fc	2.2 fc	3.6:1	2.1:1
TOILET 183	+	6.0 fc	9.0 fc	0.8 fc	11.3:1	7.5:1
TOILET 193	+	7.0 fc	8.4 fc	5.3 fc	1.6:1	1.3:1
TRAINING 195	+	4.2 fc	7.9 fc	1.1 fc	7.2:1	3.8:1

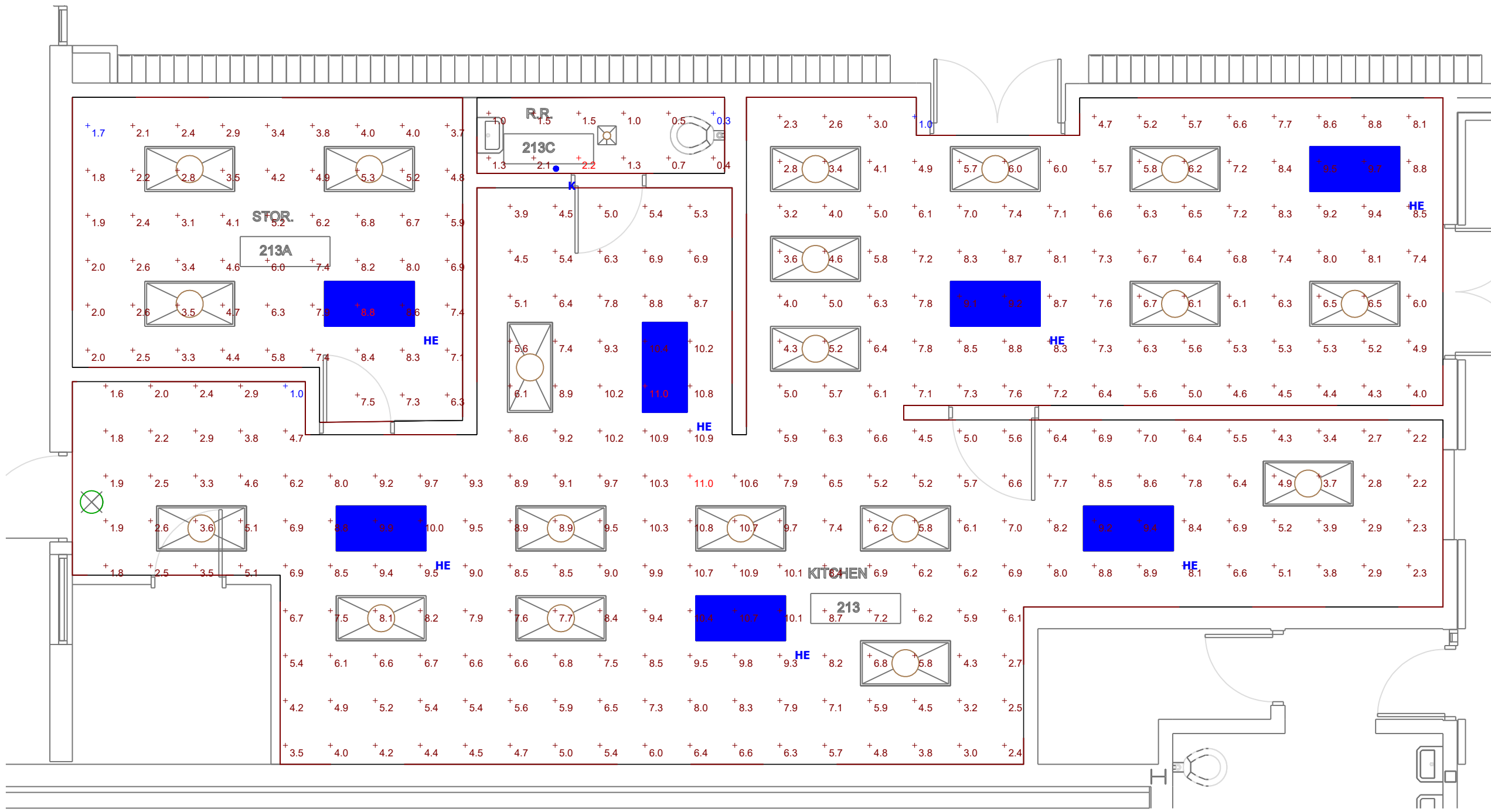


Plan View - LOCKER ROOMS



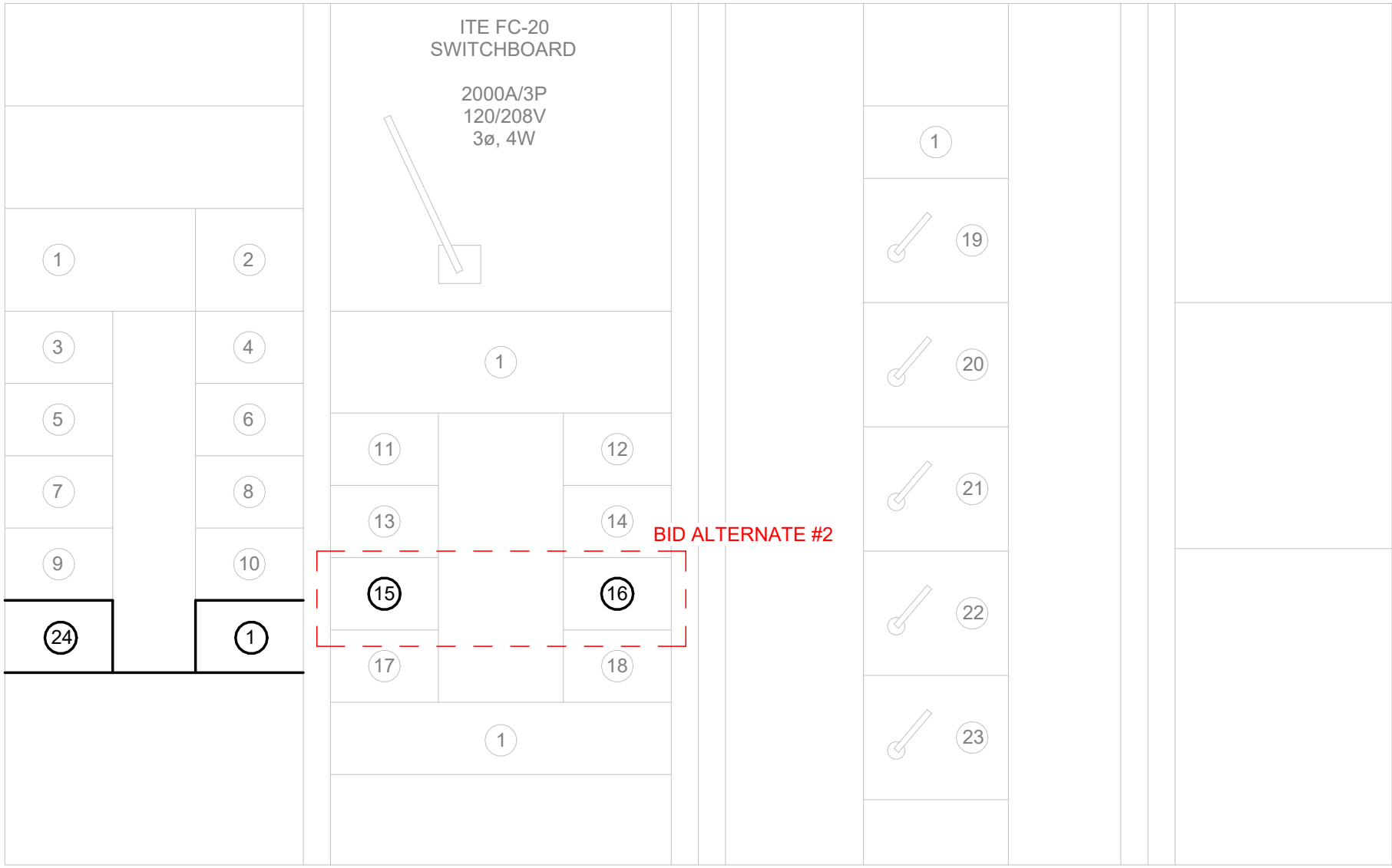
Schedule						
Symbol	Label	QTY	Catalog Number	Description	Wattage	Lumen Multiplier
	HE	7	24FP6440C EL14W	2X4 FLAT PANEL LED	62.2	0.3
	K	1	SEL25	WHITE EMERGENCY LIGHT SINGLE HEAD	1.1	1

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
KITCHEN 213	+	6.5 fc	11.0 fc	1.0 fc	11.0:1	6.5:1
R.R. 213C	+	1.1 fc	2.2 fc	0.3 fc	7.3:1	3.7:1
STOR. 213A	+	4.8 fc	8.8 fc	1.7 fc	5.2:1	2.8:1



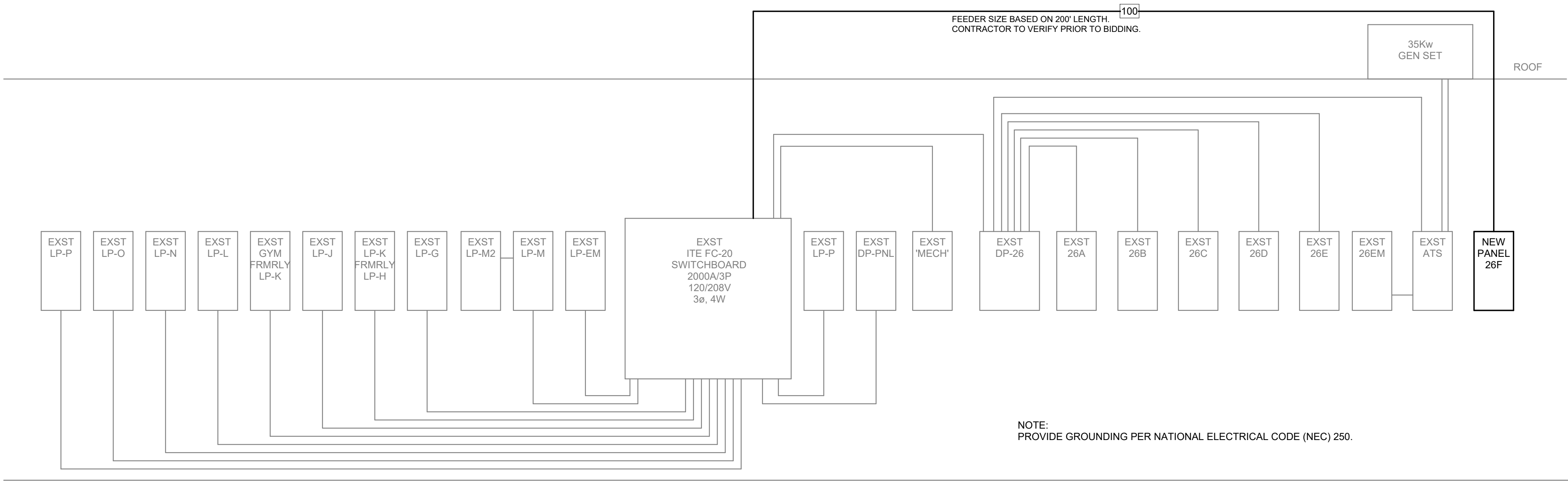
Plan View - KITCHEN

1	SPACE
2	SOLAR - 125A/2P
3	LP-G - 225A/3P
4	UNKNOWN - 225A/3P
5	LP-N - 150A/3P
6	PNL 'MECH' - 225A/3P
7	LP-M - 225A/3P
8	RP-B - 225A/
9	RP-F - 50A/3P
10	UNKNOWN - 100A/3P
11	RTU-1 - 225A/3P
12	GYM FORMERLY LP-K - 150A/3P
13	SPD - 30A/3P
14	DP-1 -
15	(1) 150A FOR RTU-1
16	(1) 150A FOR RTU-2
17	LP-O - 150A/3P
18	LP-J - 150A/3P
19	DP26 - 400A/3P
20	DP-PNL - 400A/3P
21	LP-K FORMERLY LP-H - 200A/3P
22	CONCESSION STAND - 400A/3P
23	UNKNOWN - 200A/3P
24	100A/3P FOR PANEL 26F



MAIN DISTRIBUTION PANEL

N.T.S.



POWER RISER DIAGRAM - NEW WORK

N.T.S.

FEEDER SCHEDULE	
100	1.5" - 4 #1 THWN & 1 #6 GND (CU)

LOAD SCHEDULE	
SWITCHBOARD 'MDP'	CONNECTED LOAD (KVA)
EXISTING HISTORICAL MAX LOAD	234
ADDED LOAD W/ ALTERNATE #2	94
TOTAL LOAD	328

WITH ADDED LOAD, SERVICE HAS 54% CAPACITY REMAINING.