

ADDITION TO:

CURRIE GOLF COURSE - WEST CLUBHOUSE

MIDLAND, MICHIGAN

ITB - 4650



CONTACTS:

OFFICE OF THE ENGINEER:

WAK WILLIAM A. KIBBE & ASSOCIATES
1475 S WASHINGTON STREET
SAGINAW, MICHIGAN 48601
PHONE: (989) 752-5000

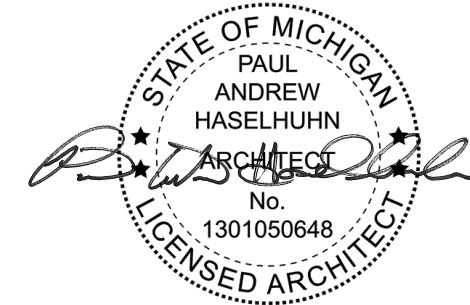


OFFICE OF THE ARCHITECT:

WTA ARCHITECTS
100 S. JEFFERSON AVENUE, SUITE 601
SAGINAW, MICHIGAN 48607
PHONE: (989) 752-8107
EMAIL: DESIGN@WTAARCH.COM

PROJECT LOCATION:

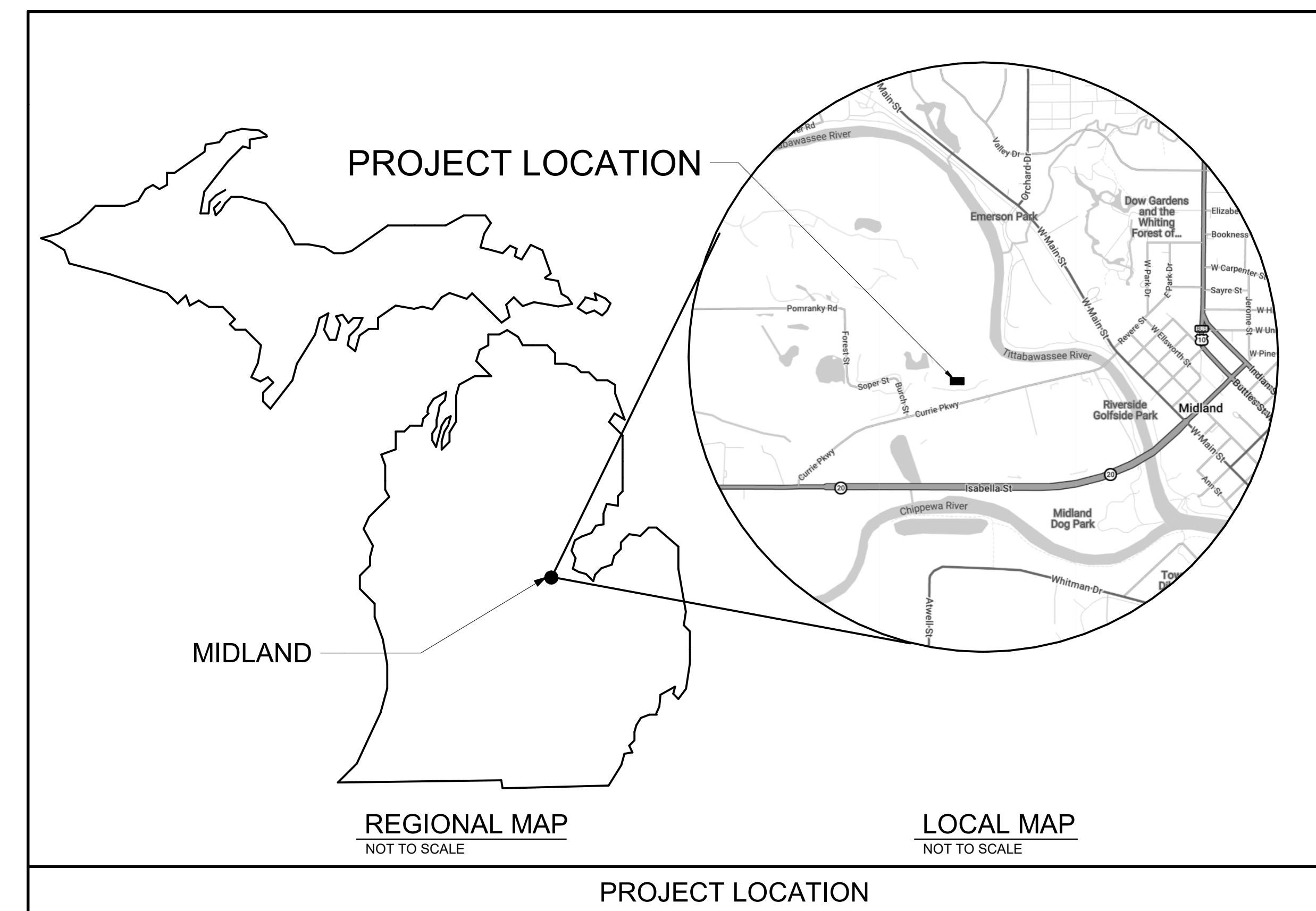
CURRIE GOLF COURSE
1300 CURRIE PKWY
MIDLAND, MI 48640
PHONE: (989) 839-9600



INDEX OF DRAWINGS:

TS	TITLE SHEET
<u>CIVIL</u>	
1.0	TOPOGRAPHIC SURVEY AND EXISTING SITE LAYOUT
2.0	SITE DEMOLITION PLAN
3.0	PROPOSED SITE PLAN
4.0	PROPOSED SITE GRADING PLAN
4.1	SOIL EROSION AND SEDIMENTATION CONTROL PLAN
<u>ARCHITECTURAL</u>	
A0.01	PROJECT INFORMATION
A2.01	FIRST FLOOR MASTER PLAN AND CODE INFORMATION
A2.21	FIRST FLOOR MASTER, DEMOLITION & PARTIAL CONSTRUCTION PLAN
A3.01	FIRST FLOOR MASTER FINISH PLAN
A3.11	DOOR & FRAME SCHEDULE, TYPES AND DETAILS
A5.01	EXTERIOR ELEVATIONS
A5.11	BUILDING SECTIONS
A6.01	MASTER DEMOLITION & CONSTRUCTION ROOF PLAN
A7.01	WALL SECTIONS
A7.02	WALL SECTIONS
A8.01	INTERIOR ELEVATIONS
A9.01	FIRST FLOOR MASTER REFLECTED CEILING PLAN
<u>STRUCTURAL</u>	
S0.0	STRUCTURAL GENERAL NOTES
S2.0	STRUCTURAL PLANS
S5.0	FOUNDATION SECTIONS AND DETAILS
S6.0	FRAMING SECTIONS AND DETAILS

<u>MECHANICAL</u>	
M0.0	GENERAL NOTES
M3.0	HVAC PLAN
M3.1	ENLARGED HVAC PLAN
M7.0	DETAILS & SCHEDULES
<u>ELECTRICAL</u>	
E0.0	GENERAL NOTES
E0.1	ELECTRICAL SPECIFICATIONS
E1.0	ELECTRICAL DEMOLITION PLAN
E3.0	OVERALL FLOOR PLAN
E3.1	ENLARGED FLOOR PLANS
E7.0	PANEL SCHEDULES & ONE-LINE DIAGRAM



SCHEDULE OF ALTERNATES:

ADD ALTERNATE NO. 1:

- BASE BID: FURNISH AND INSTALL ROOFING AS INDICATED FOR NEW ADDITION ONLY.
- ALTERNATE 1: DEMOLISH AND REMOVE EXISTING ASPHALT SHINGLES & UNDERLAYMENT (ALL) DOWN TO WOOD SHEATHING. FINISH AND INSTALL NEW ASPHALT SHINGLES OVER UNDERLAYMENT & ICE GUARD. REFER TO PROJECT MANUAL FOR ROOF SPECIFICATIONS.

ISSUED FOR BID	05/12/26
NO.	REVISION DATE



100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

WTAARCH.COM
COPYRIGHT © 2026

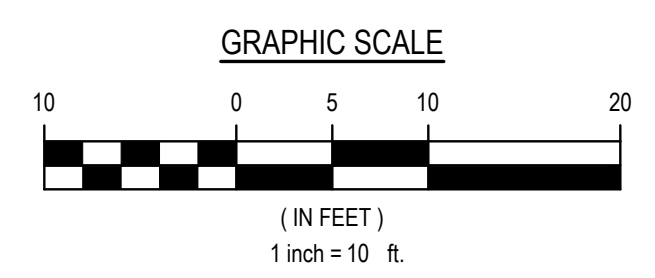
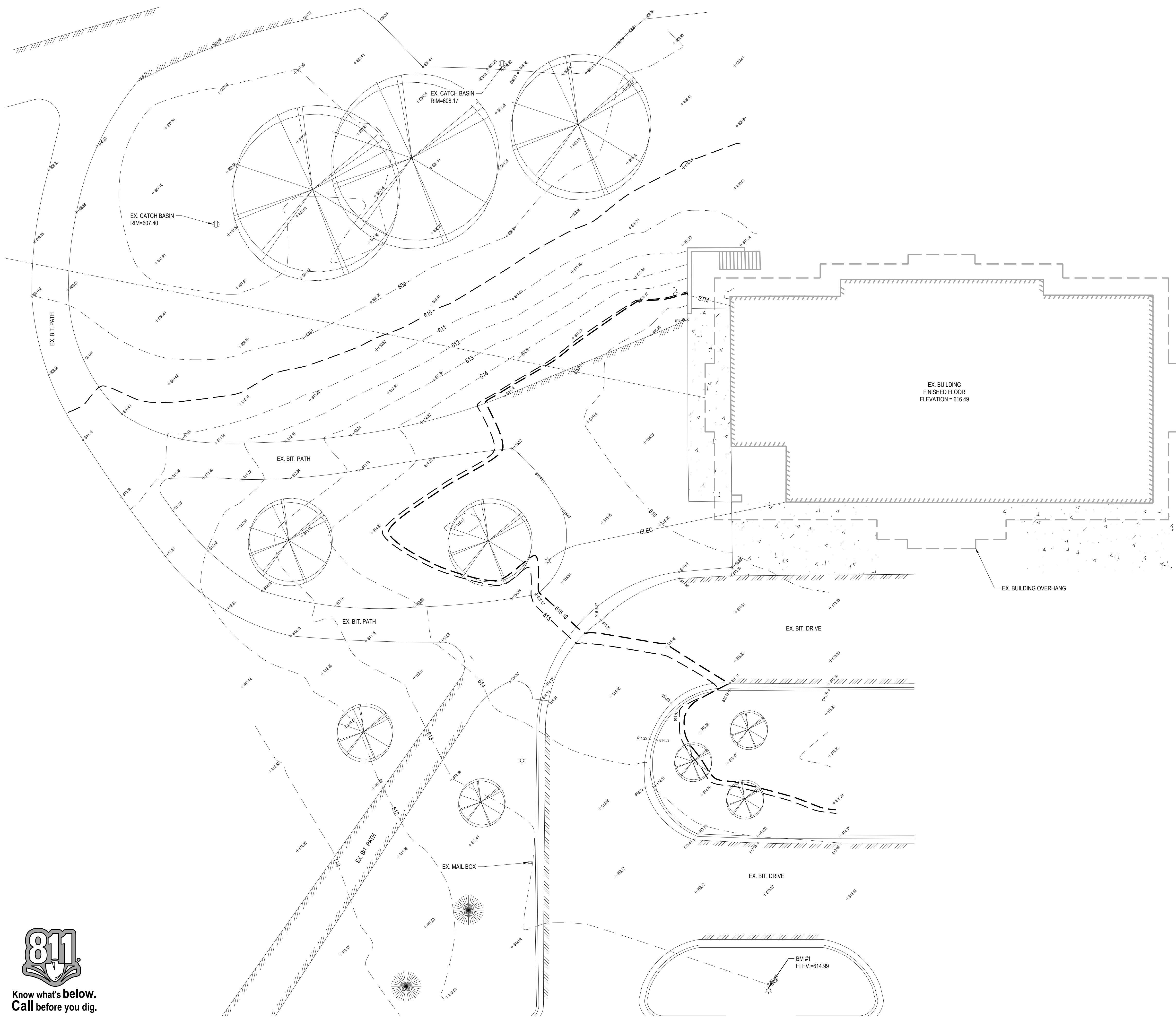
ITB - 4650

PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

MIDLAND, MICHIGAN

SHEET TITLE
TITLE SHEET

PROJECT NUMBER 2025104	SHEET NUMBER TS
PROJECT DATE 2026	
CHECKED BY S.S.C.	



- LEGEND**
- 601 --- EX. SPOT GRADE
 - 600 --- EX. MINOR CONTOUR
 - 600.00 --- EX. MAJOR CONTOUR
 - STM --- EX. 100 YEAR FLOODPLAIN CONTOUR
 - STM --- EX. STORM SEWER
 - ELEC --- EX. OVERHEAD UTILITY WIRES
 - ELEC --- EX. ELECTRIC LINES
 - EX. BUILDINGS
 - EX. BITUMINOUS PAVEMENT
 - EX. CONCRETE PAVEMENT
 - EX. SIGN WITH POST
 - EX. STORM CATCH BASIN/MANHOLE
 - EX. LIGHT POLE
 - EX. MAILBOX

OWNER
CITY OF MIDLAND
333 WEST ELLSWORTH ST
MIDLAND, MI 48640

BENCHMARK
NO. 1 - NORTH SIDE OF LIGHT POLE BASE IN NORTHWESTERLY ISLAND OF PARKING LOT
ELEVATION = 614.99 (NAVD 88 DATUM)

UTILITY NOTE
THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" AT (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.

FLOODPLAIN
THE SITE LIES WITHIN ZONE "AE" (AREAS OF THE 100 YEAR FLOODPLAIN) PER FEMA MAP 26111C0287E, EFFECTIVE MAY 4, 2009

UTILITY CONTACTS

TELEPHONE SERVICES
AT&T
JEFF SHUSTER
TEL. (231) 510-1381

GAS
CONSUMERS ENERGY
1100 WASHINGTON STREET
MIDLAND, MI 48640

PUBLIC UTILITIES
CITY OF MIDLAND
ENGINEERING DEPT.
333 W ELLSWORTH STREET
MIDLAND, MI 48640
TEL. (989) 837-3348

ZONING
CITY OF MIDLAND
PLANNING DEPT.
1100 WASHINGTON STREET
MIDLAND, MI 48640
TEL. (989) 837-3374

**DESIGN DEVELOPMENT
NOT FOR CONSTRUCTION**

ISSUED FOR BID	05-12-2026	
FINAL OWNER REVIEW	04-30-2026	
NO.	REVISION	DATE



WTAARCH.COM

WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

COPYRIGHT ©

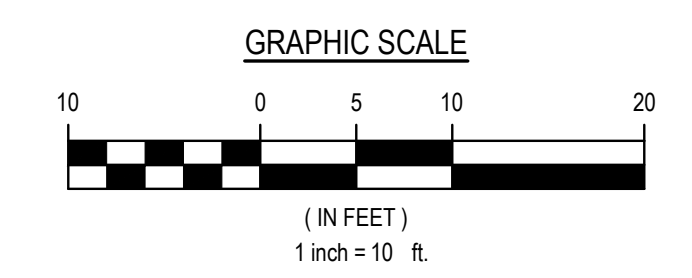
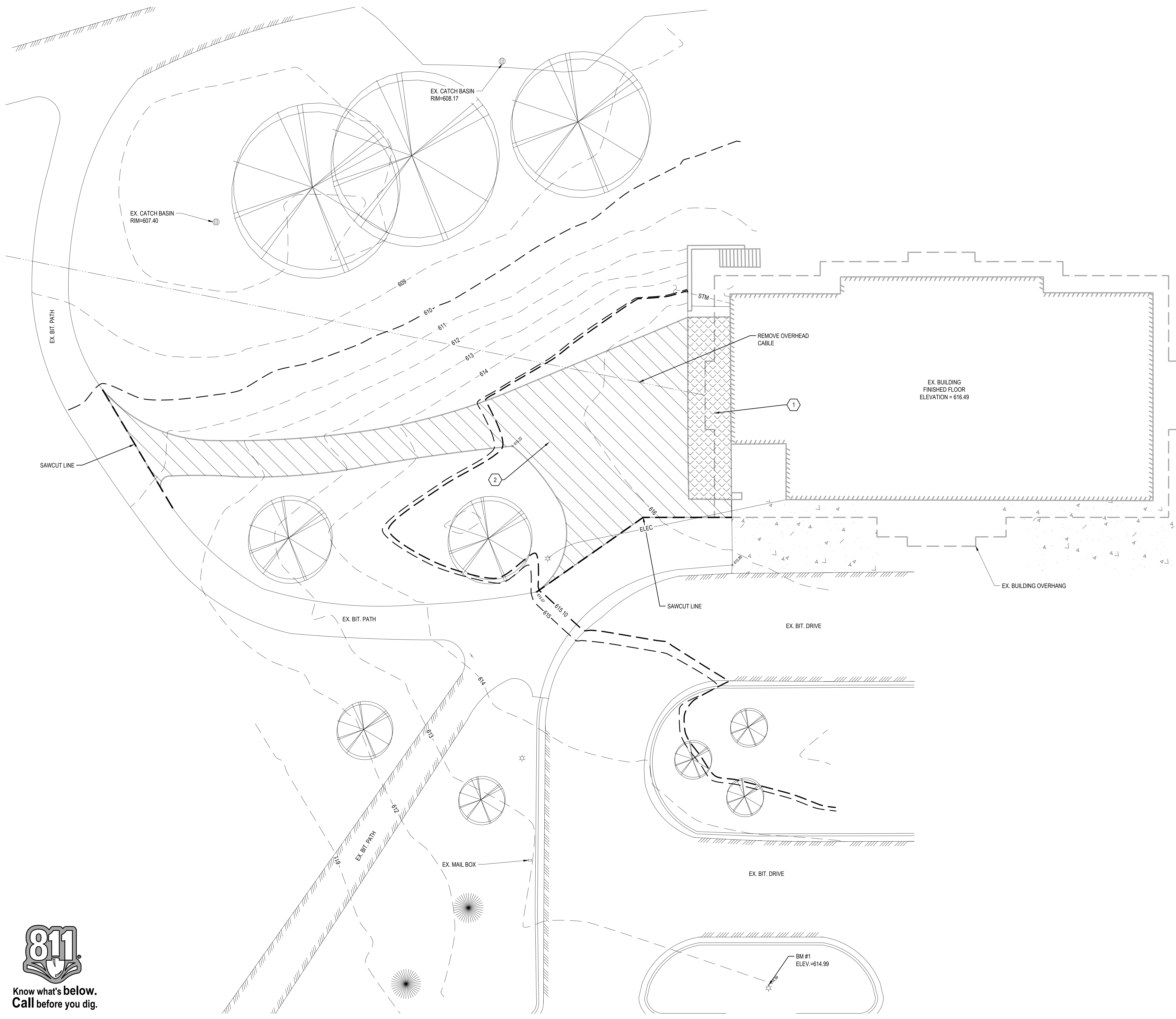
PROJECT TITLE
ADDITION TO:
**CURRIE GOLF COURSE -
WEST CLUBHOUSE**

MIDLAND, MICHIGAN

SHEET TITLE
**TOPOGRAPHIC SURVEY
AND EXISTING SITE LAYOUT**

PROJECT NUMBER 25-0456-0295	SHEET NUMBER
PROJECT DATE 2026	C1.0
CHECKED BY J. WHEELER	





LEGEND

---	EX. SPOT GRADE
---	EX. MINOR CONTOUR
---	EX. MAJOR CONTOUR
---	EX. STORM SEWER
---	EX. OVERHEAD UTILITY WIRES
---	EX. ELECTRIC LINES
---	EX. BUILDINGS
---	EX. BITUMINOUS PAVEMENT
---	EX. CONCRETE PAVEMENT
---	EX. SIGN WITH POST
---	EX. STORM CATCH BASIN/MANHOLE
---	EX. LIGHT POLE
---	EX. MAILBOX

OWNER
CITY OF MIDLAND
333 WEST ELLSWORTH ST
MIDLAND, MI 48640

BENCHMARK
NO. 1 - NORTH SIDE OF LIGHT POLE BASE IN NORTHWESTERLY ISLAND OF PARKING LOT
ELEVATION = 614.99 (NAVD 88 DATUM)

UTILITY NOTE
THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" AT (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.

FLOODPLAIN
THE SITE LIES WITHIN ZONE "AE" (AREAS OF THE 100 YEAR FLOODPLAIN) PER FEMA MAP 26111C0257E, EFFECTIVE MAY 4, 2009.

UTILITY CONTACTS

TELEPHONE SERVICES	GAS
AT&T	CONSUMERS ENERGY
JEFF SHUSTER	1100 WASHINGTON STREET
TEL. (231) 510-1381	MIDLAND, MI 48640

PUBLIC UTILITIES
CITY OF MIDLAND
ENGINEERING DEPT.
333 W ELLSWORTH STREET
MIDLAND, MI 48640
TEL. (989) 837-3348

ZONING
CITY OF MIDLAND
PLANNING DEPT.
333 W ELLSWORTH STREET
MIDLAND, MI 48640
TEL. (989) 837-3374

- DEMOLITION KEYED NOTES:**
- 1 REMOVE EXISTING CONCRETE SURFACES. SAWCUT PER PLAN OR TO NEAREST JOINT. SEE NOTE 3 THIS SHEET.
AREA REPRESENTED BY: [Hatched Pattern]
- 2 REMOVE EXISTING BITUMINOUS SURFACES. SAWCUT PER PLAN OR TO NEAREST JOINT. SEE NOTE 3 THIS SHEET.
AREA REPRESENTED BY: [Diagonal Line Pattern]

**DESIGN DEVELOPMENT
NOT FOR CONSTRUCTION**

	ISSUED FOR BID	05-12-2026
	FINAL OWNER REVIEW	04-30-2026
NO.	REVISION	DATE

WAK
WILLIAM A. KIBBE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS | SURVEYORS

WTAARCH.COM

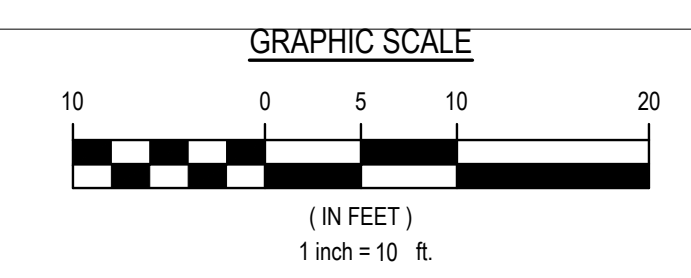
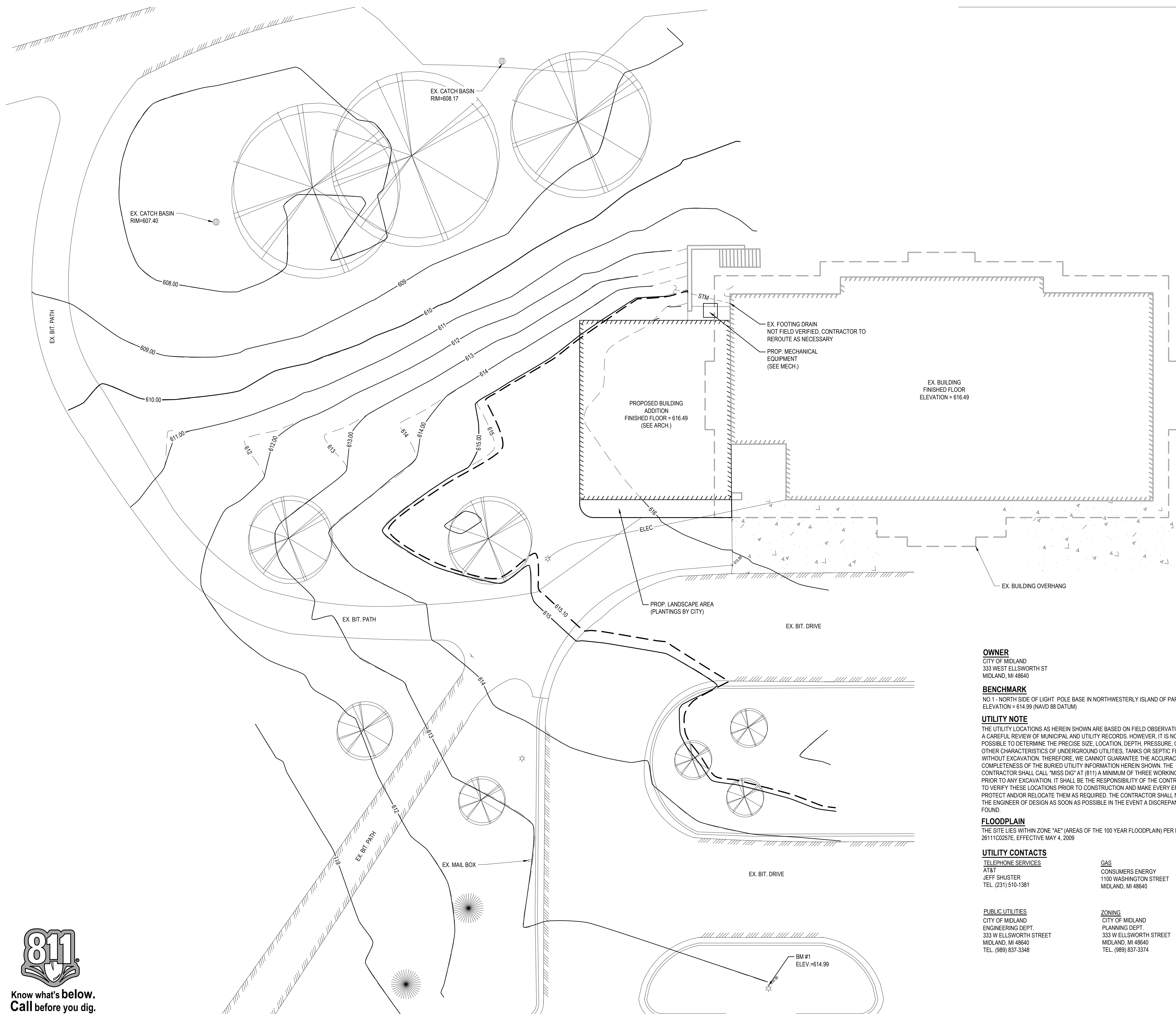
WTA ARCHITECTS
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

COPYRIGHT ©

PROJECT TITLE	
ADDITION TO: CURRIE GOLF COURSE - WEST CLUBHOUSE	
MIDLAND, MICHIGAN	
SHEET TITLE	
SITE DEMOLITION PLAN	
PROJECT NUMBER	SHEET NUMBER
25-0456-0295	C2.0
PROJECT DATE	
2026	
CHECKED BY	
J. WHEELER	



SITE DEMOLITION PLAN
SCALE: 1"=10'



LEGEND

	EX. SPOT GRADE
	EX. MINOR CONTOUR
	EX. MAJOR CONTOUR
	EX. 100 YEAR FLOODPLAIN CONTOUR
	EX. STORM SEWER
	EX. OVERHEAD UTILITY WIRES
	EX. ELECTRIC LINES
	EX. BUILDINGS
	EX. BITUMINOUS PAVEMENT
	EX. CONCRETE PAVEMENT
	EX. SIGN WITH POST
	EX. STORM CATCH BASIN/MANHOLE
	EX. LIGHT POLE
	EX. MAILBOX
	PROP. BUILDING
	PROP. GRADE CONTOUR (MAJOR)
	PROP. GRADE CONTOUR (MINOR)

- GENERAL SITE NOTES:**
1. THE CONTRACTOR SHALL CALL "MISS DIG", 811, A MINIMUM OF 3 WORKING DAYS BEFORE DIGGING ON THE PROJECT TO VERIFY EXISTING UNDERGROUND UTILITIES.
 2. THE EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DRAWN IN ACCORDANCE TO THE INFORMATION PROVIDED. ALL UTILITIES SHALL BE FIELD LOCATED BY THE CONTRACTOR PRIOR TO CROSSING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 3. DURING THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL CONFORM TO ACT No. 451, PUBLIC ACTS OF 1994, RELATIVE TO THE SOIL EROSION AND SEDIMENTATION CONTROL ACT.
 4. CLEANUP SHALL INCLUDE DEBRIS REMOVAL, ROUGH GRADING, MINIMUM 4" TOPSOIL PLACEMENT, SEEDING, AND FERTILIZING OVER ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS.
 5. CONTRACTOR TO SUPPLY ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.
 6. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL COSTS FOR LOCATING, REMOVING, REPLACING OR RELOCATING THESE UTILITIES SHALL BE INCIDENTAL TO CONSTRUCTION. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH LIKE MATERIAL AT NO ADDITIONAL COST TO THE OWNER.
 7. CONTRACTOR SHALL NOTIFY PROPER GOVERNMENTAL INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
 8. THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP CONSTRUCTION FOR EXTENDED PERIODS ONCE CONSTRUCTION HAS BEGUN.
 9. THE CONTRACTOR SHALL MAINTAIN IN SERVICE, ALL EXISTING SANITARY SEWER, WATER OR STORM SEWER SERVICE CONNECTIONS WHENEVER POSSIBLE. COORDINATE WITH LOCAL UTILITY COMPANY AND OWNER BEFORE ANY UTILITIES TO BE OUT OF SERVICE FOR A PERIOD OF TIME.
 10. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING AND/OR GRADING OPERATIONS.
 11. SEE GRADING AND UTILITY PLAN FOR PAVEMENT GRADES AND UTILITY NOTES.
 12. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING LAYOUTS, DIMENSIONS AND DETAILS PERTAINING TO BUILDING.
 13. SEE LANDSCAPING PLAN FOR LAYOUT AND NOTES.

OWNER
CITY OF MIDLAND
333 WEST ELLSWORTH ST
MIDLAND, MI 48640

BENCHMARK
NO. 1 - NORTH SIDE OF LIGHT POLE BASE IN NORTHWESTERLY ISLAND OF PARKING LOT
ELEVATION = 614.99 (NAVD 88 DATUM)

UTILITY NOTE
THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" AT (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.

FLOODPLAIN
THE SITE LIES WITHIN ZONE "AE" (AREAS OF THE 100 YEAR FLOODPLAIN) PER FEMA MAP 26111C0257E, EFFECTIVE MAY 4, 2009

UTILITY CONTACTS

TELEPHONE SERVICES AT&T JEFF SHUSTER TEL. (231) 510-1381	GAS CONSUMERS ENERGY 1100 WASHINGTON STREET MIDLAND, MI 48640
PUBLIC UTILITIES CITY OF MIDLAND ENGINEERING DEPT. 333 W ELLSWORTH STREET MIDLAND, MI 48640 TEL. (989) 837-3348	ZONING CITY OF MIDLAND PLANNING DEPT. 333 W ELLSWORTH STREET MIDLAND, MI 48640 TEL. (989) 837-3374

**DESIGN DEVELOPMENT
NOT FOR CONSTRUCTION**

	ISSUED FOR BID	05-12-2026
	FINAL OWNER REVIEW	04-30-2026
NO.	REVISION	DATE

WTA ARCHITECTS
WILLIAM A. KIBBE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS | SURVEYORS

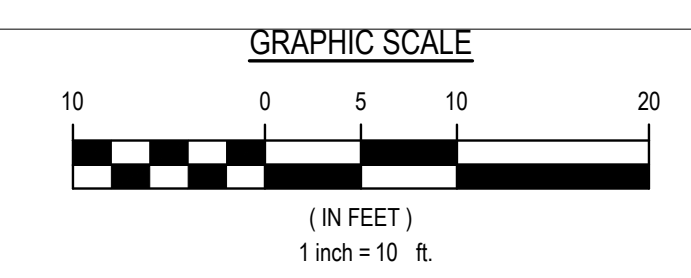
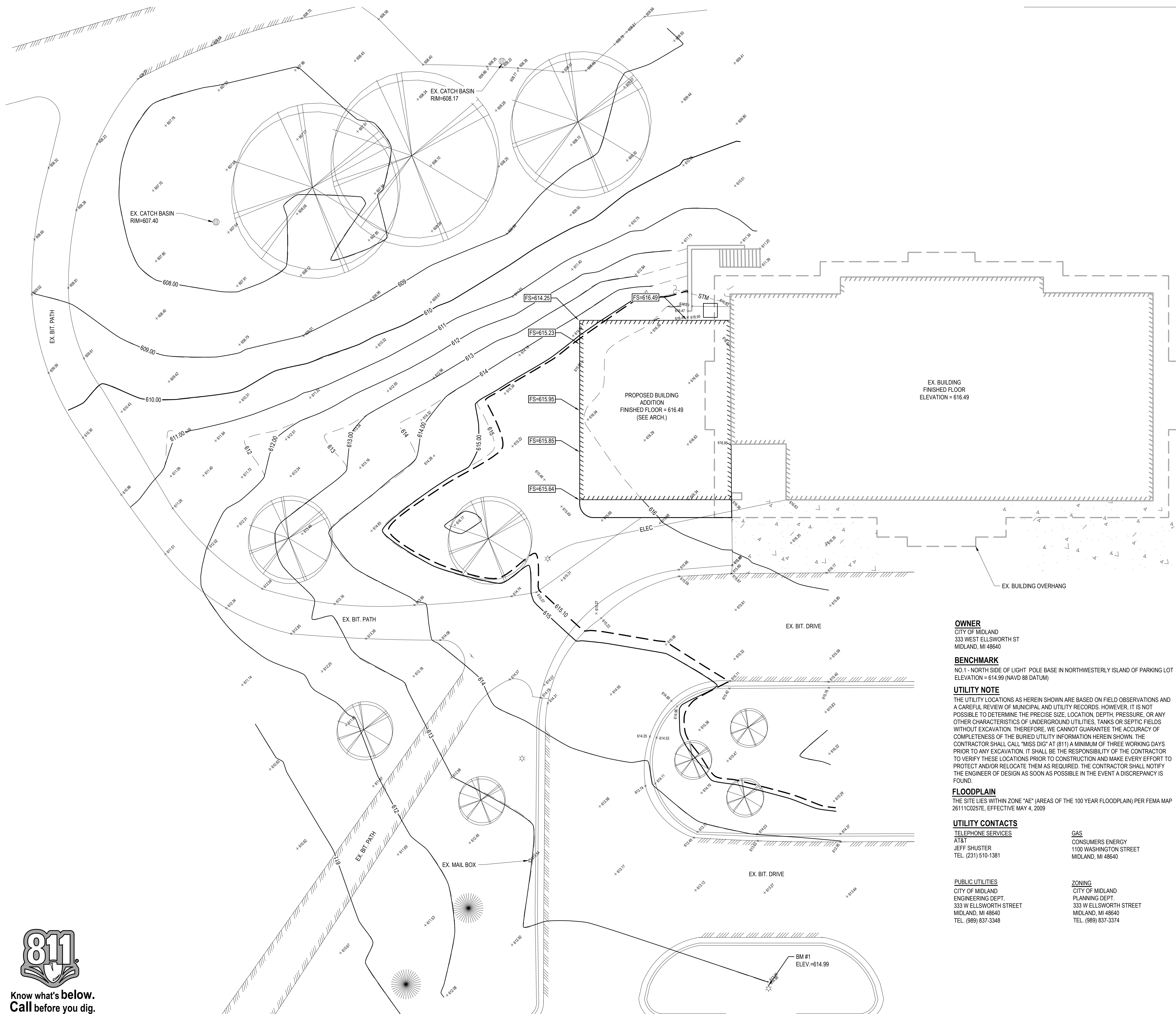
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

WTAARCH.COM
COPYRIGHT ©

PROJECT TITLE	
ADDITION TO: CURRIE GOLF COURSE - WEST CLUBHOUSE	
MIDLAND, MICHIGAN	
SHEET TITLE PROPOSED SITE PLAN	
PROJECT NUMBER 25-0456-0295	SHEET NUMBER
PROJECT DATE 2026	C3.0
CHECKED BY J. WHEELER	



PROPOSED SITE PLAN
SCALE: 1"=10'



LEGEND

	EX. SPOT GRADE
	EX. MINOR CONTOUR
	EX. MAJOR CONTOUR
	EX. 100 YEAR FLOODPLAIN CONTOUR
	EX. STORM SEWER
	EX. OVERHEAD UTILITY WIRES
	EX. ELECTRIC LINES
	EX. BUILDINGS
	EX. BITUMINOUS PAVEMENT
	EX. CONCRETE PAVEMENT
	EX. SIGN WITH POST
	EX. STORM CATCH BASIN/MANHOLE
	EX. LIGHT POLE
	EX. MAILBOX
	PROP. BUILDING
	PROP. GRADE CONTOUR (MAJR)
	PROP. GRADE CONTOUR (MINR)
	PROP. DRAINAGE FLOW
	FS FINISH SURFACE
	TC TOP OF CURB
	TW TOP OF WALK
	PROP. SPOT ELEVATION

- GENERAL GRADING NOTES:**
- THE CONTRACTOR SHALL CALL "MISS DIG", 811, A MINIMUM OF 3 WORKING DAYS BEFORE DIGGING ON THE PROJECT TO VERIFY EXISTING UNDERGROUND UTILITIES.
 - THE EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DRAWN IN ACCORDANCE TO THE INFORMATION PROVIDED. ALL UTILITIES SHALL BE FIELD LOCATED BY THE CONTRACTOR PRIOR TO CROSSING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - DURING THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL CONFORM TO ACT No. 451, PUBLIC ACTS OF 1994, RELATIVE TO THE SOIL EROSION AND SEDIMENTATION CONTROL ACT.
 - MATCH EXISTING BIT. PAVEMENT ALONG NEW WALKS AND PROPOSED NEW BIT. PAVEMENT AREAS WHERE APPLICABLE.
 - ALL UTILITY WORK SHALL CONFORM TO THE LATEST LOCAL MUNICIPALITY'S STANDARD SPECIFICATIONS AND DETAILS.
 - SAND FILL UNDER FLOOR SLABS SHALL BE MDOT CL II GRANULAR BACKFILL. SAND SHALL BE SPREAD IN UNIFORM LAYERS NOT TO EXCEED 6" THICK BEFORE COMPACTION. EACH LAYER SHALL BE THOROUGHLY COMPACTED WITH A VIBRATING COMPACTOR AFTER EACH LAYER IS PLACED. FILL SAND SHALL NOT HAVE A MOISTURE CONTENT GREATER THAN 15%. COMPACTION SHALL MEET 95% OF MAXIMUM UNIT WEIGHT AS DETERMINED BY THE MODIFIED PROCTOR TEST.
 - THE SITE EXCAVATION CONTRACTOR SHALL VERIFY THE EXISTING SANITARY SEWER LEAD DEPTH PRIOR TO ANY FOOTING EXCAVATION.
 - REMOVE EXISTING TOP SOIL FROM AREAS TO BE PAVED AND REPLACE WITH SUITABLE COMPACTED FILL. FILL MATERIAL SHALL BE COMPACTED SAND BACKFILL CLASS II GRANULAR.
 - BACKFILL ALL TRENCHES UNDER SLABS, WALKS AND PAVED AREAS WITH COMPACTED SAND BACKFILL, MDOT CL II. COMPACTION SHALL BE 95% MAXIMUM UNIT WEIGHT AS DETERMINED BY MODIFIED PROCTOR.
 - ALL ON SITE WATER SERVICES SHALL MEET THE REQUIREMENTS OF THE STANDARD DETAILS OF THE LOCAL MUNICIPALITY HAVING JURISDICTION.
 - THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL REGULATIONS FOR WORK AT THE SITE. THIS SHALL INCLUDE MIOSHA REGULATIONS.
 - THE CONTRACTOR/DEVELOPER SHALL PAY FOR AND OBTAIN ALL BUILDING PERMITS, LOCAL PERMITS AND PAY ALL CHARGES FOR ANY INSPECTION AND TESTING.
 - THE CONTRACTOR SHALL CONTROL NOISE, CARRY OUT A PROGRAM OF DUST CONTROL AND SHALL ALLOW NO ON-SITE BURNING.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE PREMISES AND UPON COMPLETION OF THE PROJECT LEAVE THE SITE IN AN ACCEPTABLE CONDITION AS DETERMINED BY THE ENGINEER OR THE OWNER.

OWNER
CITY OF MIDLAND
333 WEST ELLSWORTH ST
MIDLAND, MI 48640

BENCHMARK
NO. 1 - NORTH SIDE OF LIGHT POLE BASE IN NORTHWESTERLY ISLAND OF PARKING LOT
ELEVATION = 614.99 (NAVD 88 DATUM)

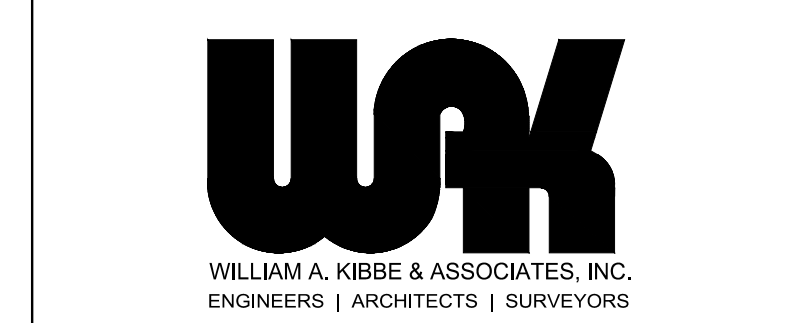
UTILITY NOTE
THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" AT (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.

FLOODPLAIN
THE SITE LIES WITHIN ZONE "AE" (AREAS OF THE 100 YEAR FLOODPLAIN) PER FEMA MAP 26111C0257E, EFFECTIVE MAY 4, 2009

UTILITY CONTACTS	
TELEPHONE SERVICES	GAS
AT&T	CONSUMERS ENERGY
JEFF SHUSTER	1100 WASHINGTON STREET
TEL. (231) 510-1381	MIDLAND, MI 48640
PUBLIC UTILITIES	ZONING
CITY OF MIDLAND	CITY OF MIDLAND
ENGINEERING DEPT.	PLANNING DEPT.
333 W ELLSWORTH STREET	333 W ELLSWORTH STREET
MIDLAND, MI 48640	MIDLAND, MI 48640
TEL. (989) 837-3348	TEL. (989) 837-3374

**DESIGN DEVELOPMENT
NOT FOR CONSTRUCTION**

	ISSUED FOR BID	05-12-2026
	FINAL OWNER REVIEW	04-30-2026
NO.	REVISION	DATE



WTAARCH.COM

WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

COPYRIGHT ©

PROJECT TITLE
ADDITION TO:
**CURRIE GOLF COURSE -
WEST CLUBHOUSE**

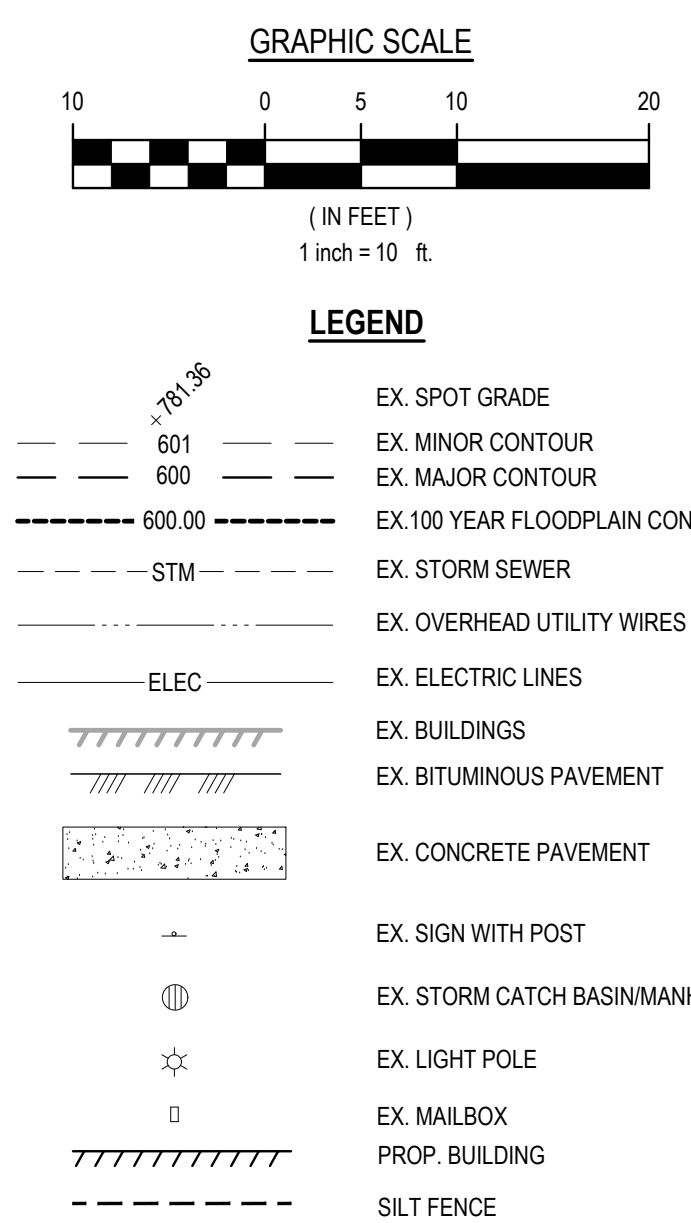
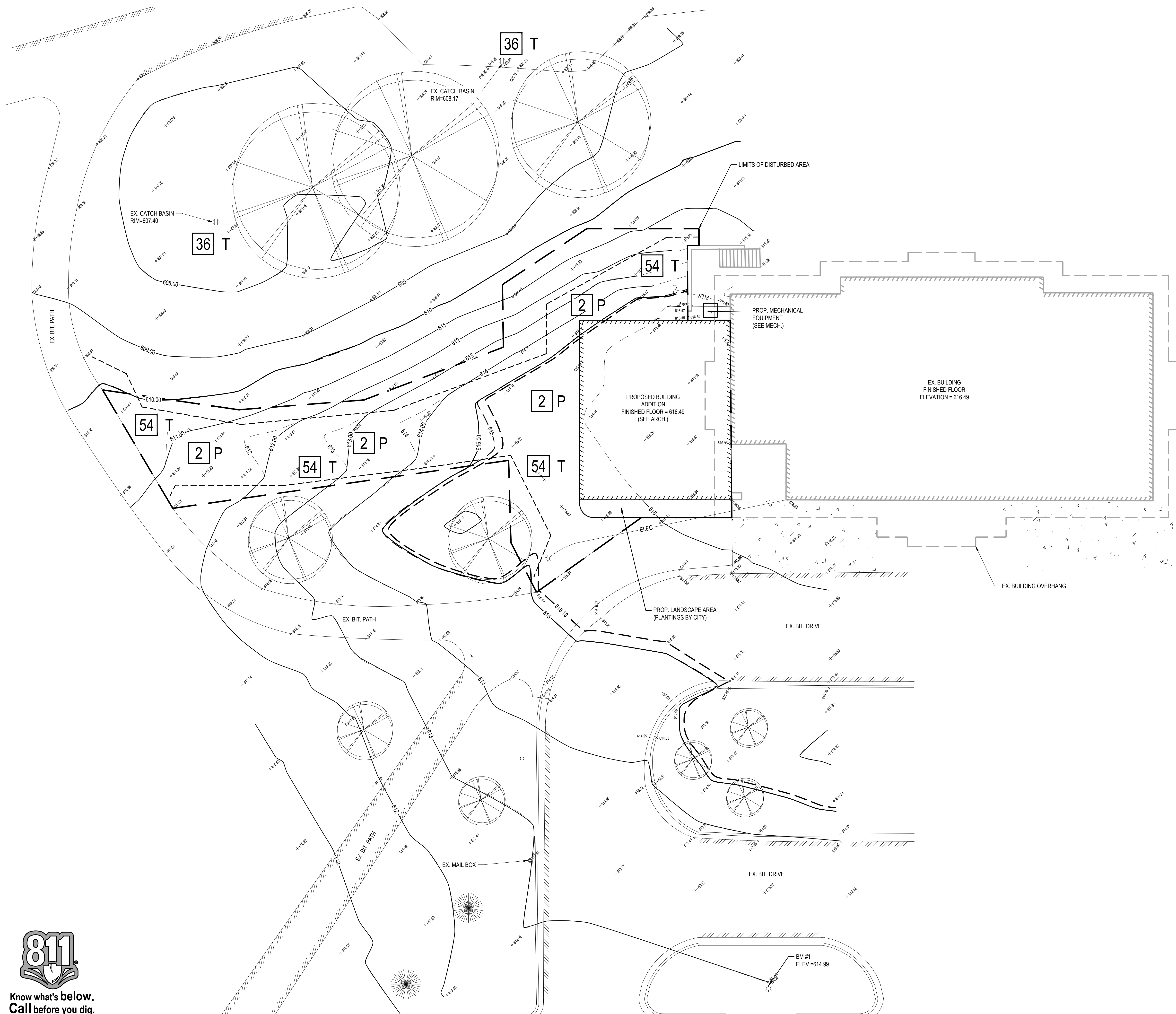
MIDLAND, MICHIGAN

SHEET TITLE
**PROPOSED SITE
GRADING PLAN**

PROJECT NUMBER 25-0456-0295	SHEET NUMBER
PROJECT DATE 2026	C4.0
CHECKED BY J. WHEELER	



PROPOSED SITE GRADING PLAN
SCALE: 1"=10'



OWNER
 CITY OF MIDLAND
 333 WEST ELLSWORTH ST
 MIDLAND, MI 48640

BENCHMARK
 NO.1 - NORTH SIDE OF LIGHT POLE BASE IN NORTHWESTERLY ISLAND OF PARKING LOT
 ELEVATION = 614.99 (NAVD 88 DATUM)

UTILITY NOTE
 THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" AT (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.

FLOODPLAIN
 THE SITE LIES WITHIN ZONE "AE" (AREAS OF THE 100 YEAR FLOODPLAIN) PER FEMA MAP 26111C0257E, EFFECTIVE MAY 4, 2009

UTILITY CONTACTS

TELEPHONE SERVICES AT&T JEFF SHUSTER TEL. (231) 510-1381	GAS CONSUMERS ENERGY 1100 WASHINGTON STREET MIDLAND, MI 48640
PUBLIC UTILITIES CITY OF MIDLAND ENGINEERING DEPT. 333 W ELLSWORTH STREET MIDLAND, MI 48640 TEL. (989) 637-3348	ZONING CITY OF MIDLAND PLANNING DEPT. 333 W ELLSWORTH STREET MIDLAND, MI 48640 TEL. (989) 637-3374

- CONSTRUCTION SEQUENCE:**
- EXCAVATION AND STOCKPILING OF SOIL.
 - IMPLEMENTATION OF TEMPORARY EROSION CONTROL MEASURES; SELECTIVE GRADING, DIVERSIONS AS REQUIRED IN FIELD, PROTECTION OF STORM SEWER FACILITIES.
 - PERIODIC MAINTENANCE OF AFFECTED EROSION CONTROL MEASURES.
 - PERMANENT MEASURES; FINAL GRADING, SEEDING AND MULCHING.
- SOIL EROSION AND SEDIMENTATION CONTROL NOTES:**
- CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING AND/OR GRADING OPERATIONS.
 - SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
 - CLEANUP WILL BE DONE IN A MANNER TO INSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
 - THE PROJECT WILL CONTINUALLY BE INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS.
 - TEMPORARY EROSION CONTROL MEASURES SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR UPON ESTABLISHMENT OF PERMANENT CONTROL MEASURES.

KEYED DETAILS

2	SELECTIVE GRADING/SHAPING	WATER CAN BE DIVERTED TO MINIMIZE EROSION. FLATTER SLOPES EASE EROSION PROBLEMS.
36	CATCH BASIN, BRAN RILET	COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF. USE "SILT SACK" FOR EASY MAINTENANCE.
54	SILT FENCE	FILTERS AND DETAINS RUNOFF.

T=TEMPORARY MEASURE
 P=PERMANENT MEASURE
 TOTAL DISTURBED AREA = 0.10 ACRES

**DESIGN DEVELOPMENT
 NOT FOR CONSTRUCTION**

ISSUED FOR BID	05-12-2026	
FINAL OWNER REVIEW	04-30-2026	
NO.	REVISION	DATE

WAK
 WILLIAM A. KIBBE & ASSOCIATES, INC.
 ENGINEERS | ARCHITECTS | SURVEYORS

WTA ARCHITECTS
 100 S Jefferson Ave, Suite 601
 Saginaw, Michigan 48607
 989 752 8107

WTAARCH.COM
 COPYRIGHT ©

PROJECT TITLE ADDITION TO: CURRIE GOLF COURSE - WEST CLUBHOUSE	
MIDLAND, MICHIGAN	
SHEET TITLE SOIL EROSION AND SEDIMENTATION CONTROL PLAN	
PROJECT NUMBER 25-0456-0295	SHEET NUMBER
PROJECT DATE 2026	C4.1
CHECKED BY J. WHEELER	



SOIL EROSION AND SEDIMENTATION CONTROL PLAN
 SCALE: 1"=10'

	CONCRETE MASONRY (SECTION & PLAN)		CEMENT BOARD (SECTION)
	CONCRETE MASONRY (SECTION & PLAN)		GROUT
	BRICK MASONRY (SECTION & PLAN)		GYPSUM BOARD (CEILING/ELEVATION)
	CAST STONE (SECTION & PLAN)		GYPSUM BOARD (SECTION)
	STUD WALL (PLAN)		BACKER BOARD
	BATT INSULATION		PARTICLE BOARD & PLYWOOD
	SOUND ATTENUATION BLANKETS/SPRAYED INSUL.		SOLID SURFACE
	RIGID INSULATION & RIGID INSULATION BOARD		CONCRETE
	DIMENSIONAL LUMBER		CONCRETE WALK (PLAN)
	FINISH LUMBER		GRAVEL OR STONE AS INDICATED
	STEEL (SECTION)		COMPACTED SAND FILL
	SUSPENDED CEILING TILE		ENGINEERED FILL
	TILE ON MORTAR BED		MORTAR NET

ARCHITECTURAL MATERIAL LEGEND

<p>ABBV. ABOVE FINISHED FLOOR AC. ACROSTICAL A.C.P. ACROSTIC CEILING PANEL A.C.T. ACROSTIC CEILING TILE A.R.P. ACRYLIC RESIN PANEL ADDL. ADDITIONAL ADJ. ADJUSTABLE ALT. ALTERNATE ALUM. ALUMINUM AND. ANODIZED APPROX. APPROXIMATE ARCH. ARCHITECTURAL</p> <p>BKR. BO. BACKER BOARD BRG. BEARING BT. BUTT JOINT BLK(G). BLOCKING BD. BOARD BTM. BOTTOM B.O.C. BOTTOM OF CURB B.O.F. BOTTOM OF FOOTING BRK. BRICK BLDG. BUILDING</p> <p>CPT. CARPET C.B. CATCH BASIN C.G. CEILING C.M.T/ECMT. CERAMIC TILE CHBD. CHALKBOARD CLR. CLEAR COL. COLUMN CONC. CONCRETE C.M.U./CMU. CONTINUOUS JOINT CNT. COUNTER TOP CJ. COVERING DEPT. DEPARTMENT DK. DIAMETER D.O. DOOR OPENING DRL. DOUBLE DN. DOWN D.T. DRAIN TILE DWG. DRAWING D.F. DRINKING FOUNTAIN</p> <p>EA. EACH E.W. EACH WAY ELEC. ELECTRIC E.H.D. ELECTRIC HAND DRYER E.W.C. ELECTRIC WATER COOLER EL. ELEVATION ELEV. ELEVATION EQ. EQUAL EFF. EFFICIENT FAN EXST./E. EXISTING EXP. EXPOSED EXT. EXTERIOR</p> <p>FT. FEET F.F. FINISHED FACE FIN. FINISHED F.O. FINISHED OPENING F.E. FIRE EXTINGUISHER F.E.C. FIRE EXTINGUISHER CABINET F.R. FIRE RATED F.R.T. FIRE RETARDANT F.R.L./FRL. FIBER REINFORCED LAMINATE FR. FLOOR F.S.F./FSF. FLOODED SHEET FLOORING F.F./FTF. FLOODED TILE FLOORING FLR. FLOOR F.D. FLOOR DRAIN FTG. FOOTING</p>	<p>GA. GAUGE G. TILE/GT. GLASS TILE G.B. GRAB BAR GYP. BO. GYPSUM BOARD</p> <p>HWD. HARDWOOD HP. HIGH POINT HM/HM. HOLLOW METAL HORIZ. HORIZONTAL H.B. HOSE BIB</p> <p>ID.A./I.D. INSIDE DIAMETER IF. BL. INSIDE FACE OF BLOCK IF. BR. INSIDE FACE OF BRICK INSUL. INSULATE(D) INT. INTERIOR</p> <p>JT. JOINT</p> <p>LAM./LAM. LAMINATED LAV. LAVATORY (SNK) L.S.F./LSF. LINOLEUM SHEET FLOORING L.T.F./LTF. LOW POINT L.V.T./LVT. LUXURY VINYL TILE</p> <p>MFR. MANUFACTURER M.B. MARKER BOARD MAS. MASONRY M.O. MASONRY OPENING MATL. MATERIAL MAX. MAXIMUM MECH. MECHANICAL MFL. METAL M.P./MP. METAL PANEL M.D.O.T. MICHIGAN DEPARTMENT OF TRANSPORTATION MIN. MINIMUM MR. MIRROR MSC. MISCELLANEOUS</p> <p>ND. NOMINAL N.C. NOT IN CONTRACT N.T.S. NOT TO SCALE</p> <p>O.C. ON CENTER OPP. OPPOSITE (HAND) O.S.B. ORIENTED STRAND BOARD O.D./O.D. OUTSIDE DIAMETER O.F. BL. OUTSIDE FACE OF BLOCK O.F. BR. OUTSIDE FACE OF BRICK O.F. C. OUTSIDE FACE OF CONCRETE O.F. M. OUTSIDE FACE OF MASONRY O.F. S. OUTSIDE FACE OF STUDS</p> <p>PT./P. PAINT(ED) PR. PAIR P.T.O. PAPER TOWEL DISPENSER PART. BO. PARTICLE BOARD PART. PARTITION PH. PHYSICALLY HANDICAPPED PLAS. PLASTER PLAM./PL. PLASTIC LAMINATE PLY. PLYWOOD P.N.C. POINT OF NEW CONNECTION P.TILEPT. PORCELAIN TILE PWR. POWER P.CONC. PRECAST CONCRETE P.C.P.C. POLISHED CONCRETE</p> <p>Q.T./EQ.T. QUARRY TILE QTZ./QTZ. QUARTZ</p>	<p>F.R.P./FRP. FIBER REINFORCED POLYESTER</p> <p>GAUGE GLASS TILE GRAB BAR GYPSUM BOARD</p> <p>HARDWOOD HIGH POINT HOLLOW METAL HORIZONTAL HOSE BIB</p> <p>INSIDE DIAMETER INSIDE FACE OF BLOCK INSIDE FACE OF BRICK INSULATE(D) INTERIOR</p> <p>JOINT</p> <p>LAMINATED LAVATORY (SNK) LINOLEUM SHEET FLOORING LOW POINT LUXURY VINYL TILE</p> <p>MANUFACTURER MARKER BOARD MASONRY MASONRY OPENING MATERIAL MAXIMUM MECHANICAL METAL METAL PANEL MICHIGAN DEPARTMENT OF TRANSPORTATION MINIMUM MIRROR MISCELLANEOUS</p> <p>NOMINAL NOT IN CONTRACT NOT TO SCALE</p> <p>ON CENTER OPPOSITE (HAND) ORIENTED STRAND BOARD OUTSIDE DIAMETER OUTSIDE FACE OF BLOCK OUTSIDE FACE OF BRICK OUTSIDE FACE OF CONCRETE OUTSIDE FACE OF MASONRY OUTSIDE FACE OF STUDS</p> <p>PAINT(ED) PAIR PAPER TOWEL DISPENSER PARTICLE BOARD PARTITION PHYSICALLY HANDICAPPED PLASTER PLASTIC LAMINATE PLYWOOD POINT OF NEW CONNECTION PORCELAIN TILE POWER PRECAST CONCRETE POLISHED CONCRETE</p> <p>QUARRY TILE QUARTZ</p>	<p>RAD. RADIUS REFRIG. REFRIGERATOR REIN. REINFORCEMENT REQ'D. REQUIRED RESIL. RESILIENT WALL BASE R.S.F./RSF. RESILIENT SHEET FLOORING R.F./RFT. RESILIENT TILE FLOORING R.O. ROUGH OPENING</p> <p>S.A.T. SAFETY GLAZING SF. GL. SAFETY GLAZING S.N.D.L. SANITARY NAPKIN DISPENSER S.O. SASH OPENING SCHED. SCHEDULE SEALANT SEALANT SHEET SHEET SIM. SIMILAR SMF. SMOOTH FACE SPEC. SPECIFICATIONS SP.F. SPLIT FACE SQ.FT. SQUARE FEET S.S. STAINLESS STEEL STD. STANDARD STO. STORAGE STOR. STORAGE STRUC. STRUCTURE SUSP. SUSPENDED</p> <p>TACKBOARD TACKBOARD TEL. TELEPHONE TELEVISION TELEVISION TEMP. TEMPERED THK. THICK T.P.D. TOILET PAPER DISPENSER TYP. TYPICAL UNO. UNLESS NOTED OTHERWISE UR. URINAL</p> <p>V.B. VAPOR BARRIER V.F. VERIFY IN FIELD VERT. VERTICAL VENT. VENT THROUGH ROOF V.V. VINYL V.V.C. VINYL COMPOSITION TILE</p> <p>W.C. WATER CLOSET W.M. WALK-OFF MAT W.W.F. WELDED WIRE FABRIC W.W.M. WELDED WIRE MESH W.O. WINDOW OPENING W. WINDOW W.D. WOOD</p>
---	--	--	---

LEGEND OF ABBREVIATIONS

ROOM IDENTIFIER:

ROOM NAME: A100A
 OPTIONAL LETTER: A
 ROOM NUMBER: 100
 GRADE CLUSTER: A
 UNIT LETTER: A

DOOR IDENTIFIER:

A100.1
 DOOR NUMBER: 1
 ROOM NUMBER: 100
 GRADE CLUSTER: A
 UNIT LETTER: 1

REFERENCE BUBBLES:

1 - LOCATION NUMBER
 A1.01 - SHEET NUMBER
 7 - DETAIL MARK
 A7.07
 5 - BUILDING SECTION
 A5.05
 2 - ENLARGED DETAIL OR PLAN
 A2.02

ROOM FINISH TAG:

ROOM NAME	
NO.	BASE
WALL	FLOOR
	REMARK

NO. = ROOM NUMBER
 BASE = BASE MAT'L
 FLOOR = FLOOR MAT'L
 REMARK = REFER TO SCHEDULE OF REMARKS

KEYED NOTES:

1 - MATERIAL KEYNOTE (HEXAGON w/ NUMBER)
 1 - PLAN KEYNOTE (SQUARE w/ NUMBER)
 R1 - ROOF PLAN KEYNOTE (SQUARE w/ "R" AND NUMBER)
 2 - PLAN DEMOLITION KEYNOTE (TRIANGLE w/ NUMBER)

DEMOLITION IDENTIFIER:

--- ITEM TO BE REMOVED

ALTERATION CLOUD:

INDICATES A CHANGE TO THE CONSTRUCTION DOCUMENTS VIA ADDENDUM, BULLETIN, AND CHANGE ORDER

MATCH LINE:

INTERIOR ELEVATION IDENTIFIER:

8/AB.08
 SHEET NUMBER
 LOCATION NUMBER

ALTERATION IDENTIFIER:

ALTERNATE NO. 2

ARCHITECTURAL SYMBOL LEGEND

ISSUED FOR BID	05/12/26
NO.	REVISION
	DATE



100 S Jefferson Ave, Suite 601
 Saginaw, Michigan 48607
 989 752 8107

WTA ARCHITECTS
 WTAARCH.COM
 COPYRIGHT © 2026

ITB - 4650

PROJECT TITLE
 ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

MIDLAND, MICHIGAN

SHEET TITLE
PROJECT INFORMATION

PROJECT NUMBER 2025104	SHEET NUMBER A0.01
PROJECT DATE 2026	
CHECKED BY Checker	

CODE REVIEW

2021 MICHIGAN BUILDING CODE
 2021 MICHIGAN PLUMBING CODE
 2021 MICHIGAN MECHANICAL CODE
 2023 NATIONAL ELECTRICAL CODE w/ MICHIGAN PART 8 RULES
 2017 AMERICAN NATIONAL STANDARD ICC A117.1
 2024 INTERNATIONAL FIRE CODE

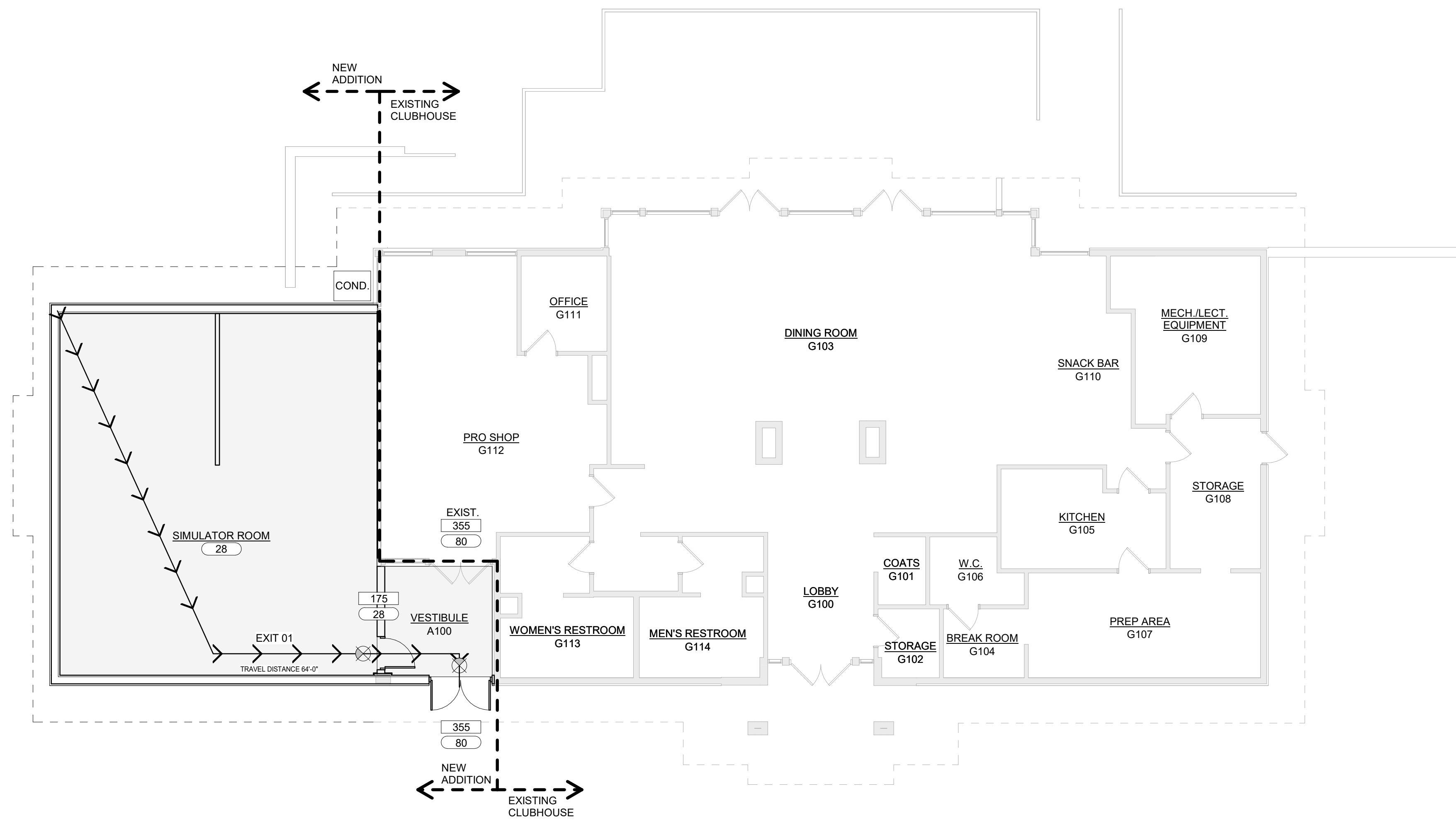
CODE TITLE	REFERENCE / LOCATION	CODE	RESPONSE / EXCEPTION
ASSEMBLY GROUP A-2	MBC 303.3	RESTAURANT / BAR	
ALLOWABLE HEIGHT ABOVE GRADE	MBC T504.3	OCCUPANCY CLASSIFICATION A2, NON SPRINKLED, TYPE VB = 40'	EXISTING BUILDING +27'-0" NEW ADDITION = +16'-6"
ALLOWABLE NUMBR OF STORIES ABOVE GRACE	MBC T504.4	OCCUPANCY CLASSIFICATION A2, NON SPRINKLED, TYPE VB = 1 STORY	EXISTING CONSTRUCTION = 1 STORY NEW ADDITON = 1 STORY
ALLOWABLE AREA	MBC T506.2	OCCUPANCY CLASSIFICATION A2, NON SPRINKLED, TYPE VB MAXIMUM - 6,000 S.F.	EXSITING BUILDING: 3,971 S.F. NEW ADDITION: 1,556 S.F. TOTAL: 5,527 S.F.
CONSTRUCTION TYPE	MBC T601	TYPE VB:	
INTERIOR WALL AND CEILING FINISH REQUIMENTS	MBC T803.13	GROUP A2, NON SPRINKLED: CORRIDORS = A ROOMS AND SPACES = B	

CODE LEGEND

EXIT 1

	TRAVEL DISTANCE
	EXIT CAPACITY
	OCCUPANT LOAD
	SUITE = 1,318 S.F.
	FIRE EXTINGUISHER CABINET (SEMIRECESSED)
	EXIT SIGN

CODE PLAN EGRESS PATH LENGTH	
PATH ID	LENGTH
EXIT 01	66'



FIRST FLOOR MASTER LIFE SAFETY PLAN
 NORTH SCALE: 1/8" = 1'-0"

ISSUED FOR BID	05/12/26
NO.	REVISION DATE



WTA ARCHITECTS
 100 S Jefferson Ave, Suite 601
 Saginaw, Michigan 48607
 989 752 8107 COPYRIGHT © 2026

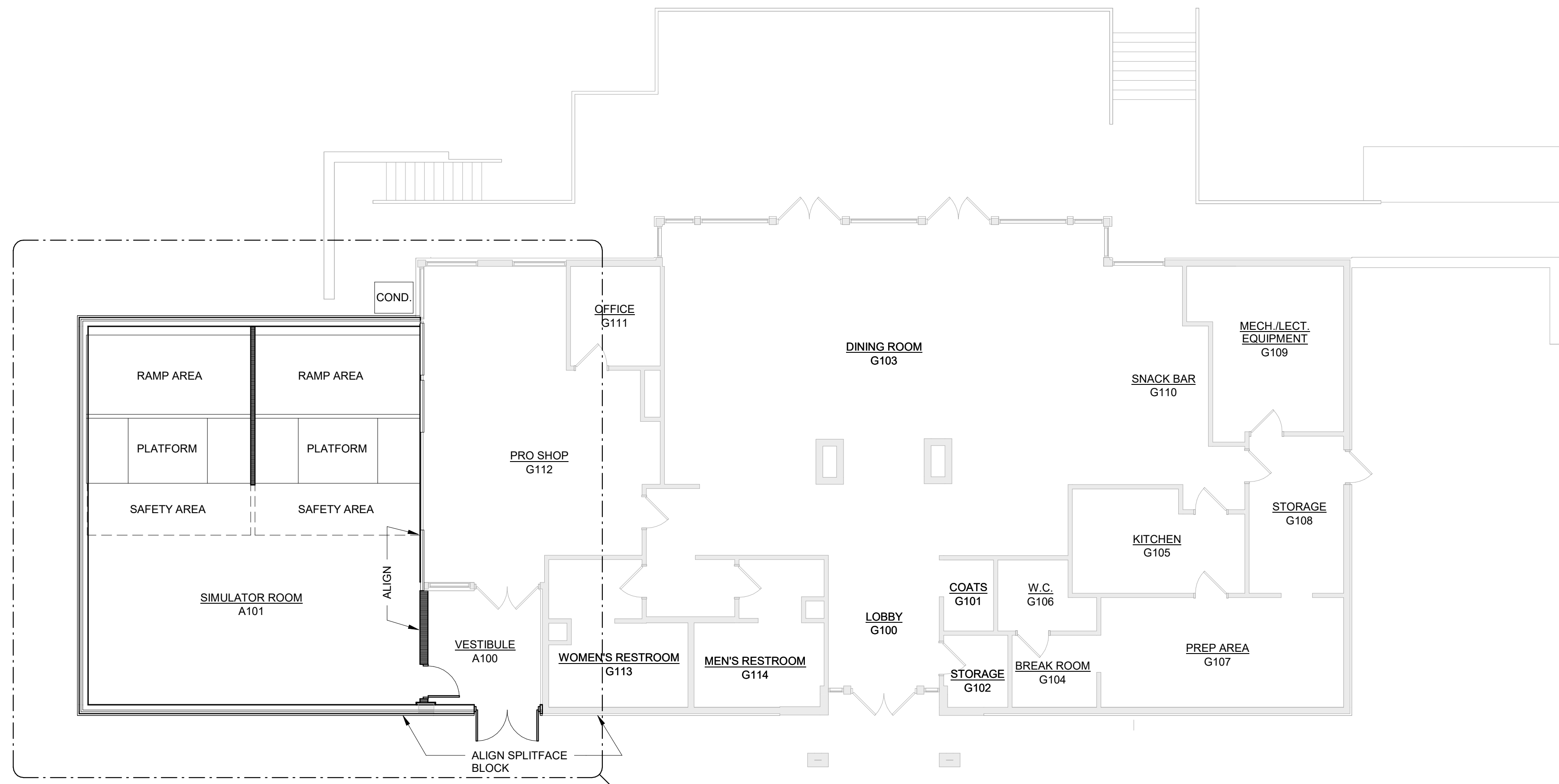
ITB - 4650

PROJECT TITLE
 ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

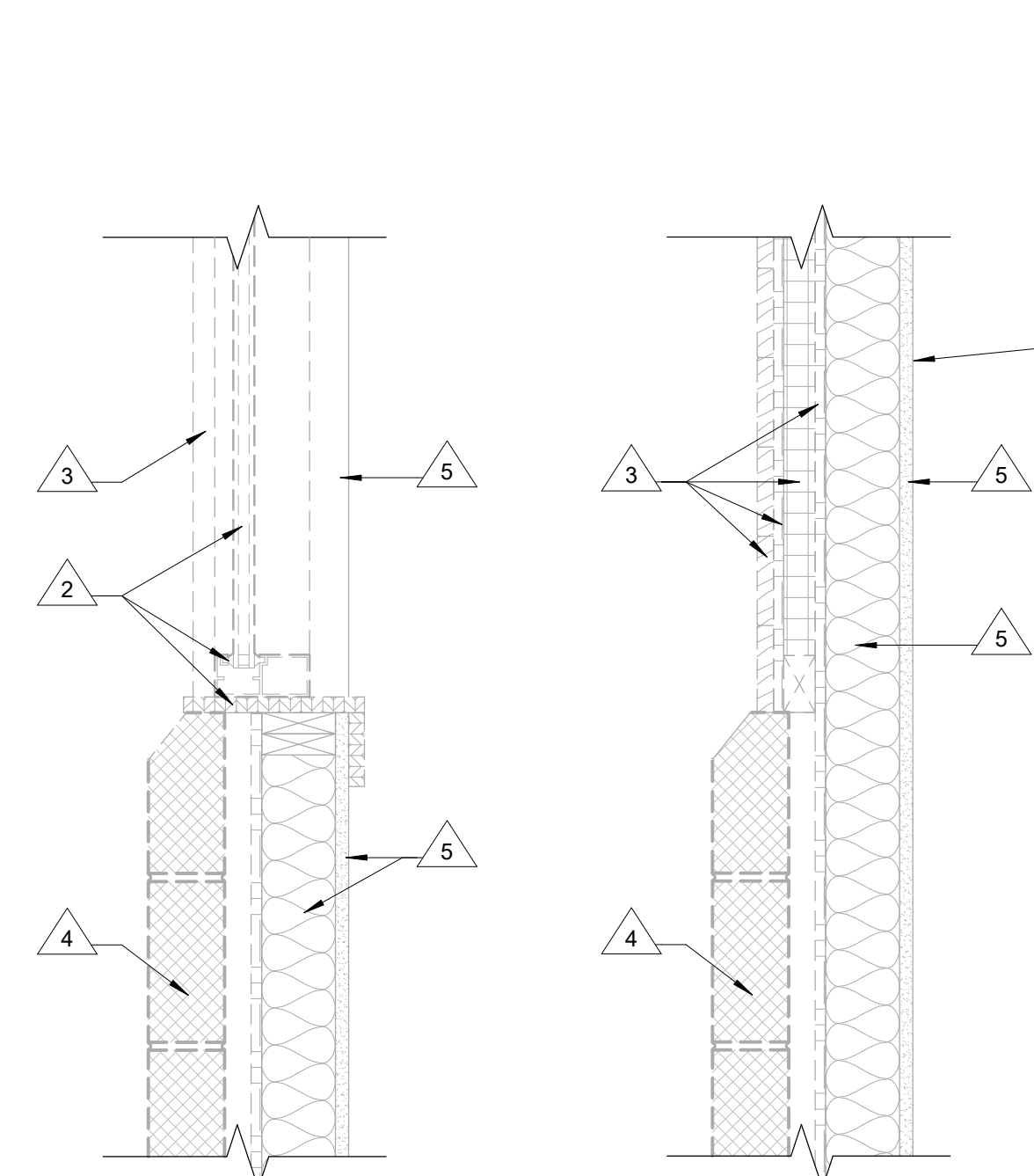
MIDLAND, MICHIGAN

SHEET TITLE
FIRST FLOOR MASTER PLAN AND CODE INFORMATION

PROJECT NUMBER 2025104	SHEET NUMBER A2.01
PROJECT DATE 2026	
CHECKED BY Checker	

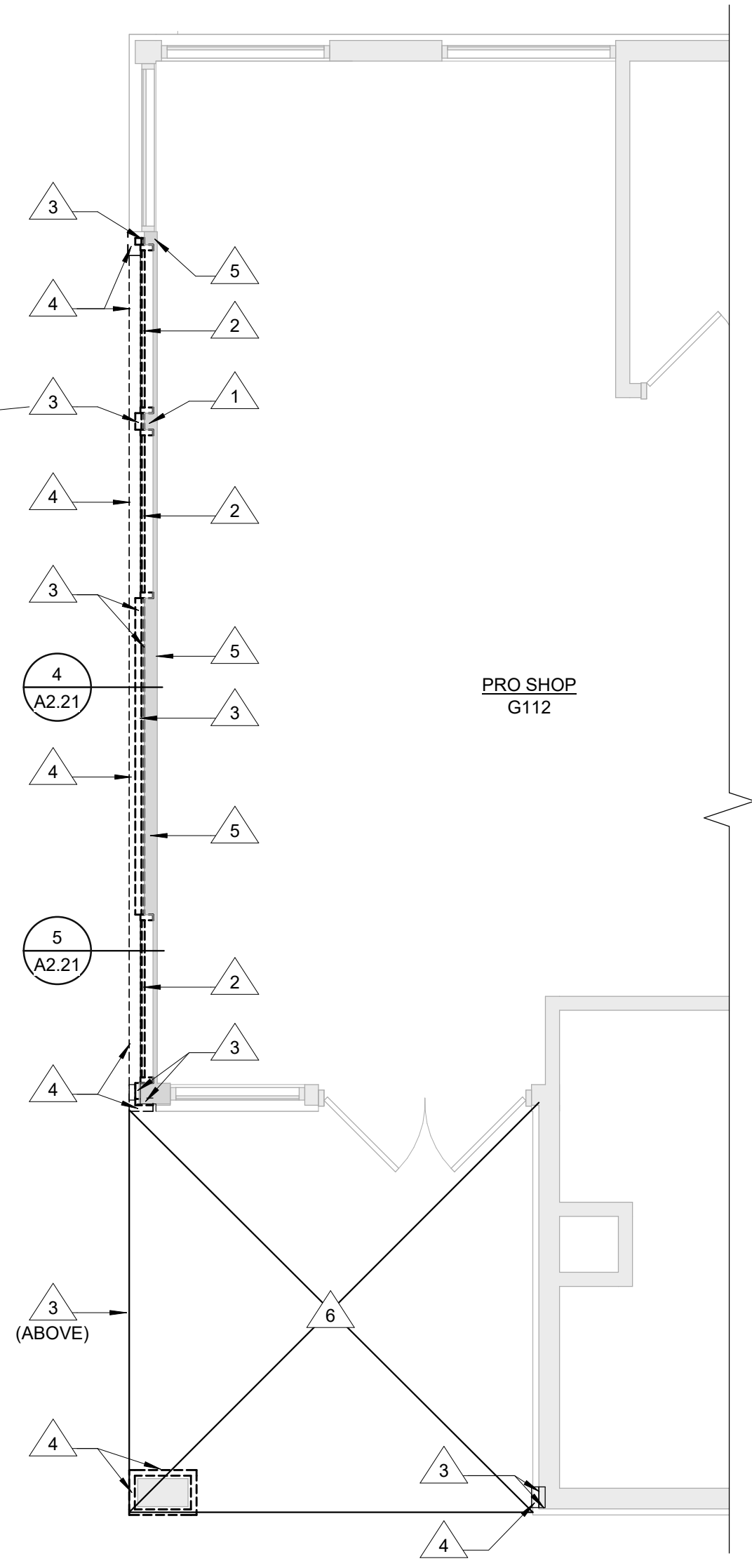


FIRST FLOOR MASTER CONSTRUCTION PLAN
 NORTH SCALE: 1/8" = 1'-0"



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

INTENT OF DEMOLITION IS TO REMOVE EXISTING EXTERIOR WALL CONSTRUCTION DOWN TO EXISTING STUDS ON THE WEST FACING EXTERIOR WALL. VERIFY EXTENT OF DEMOLITION WITH NEW CONSTRUCTION DIMENSIONS. SEE FIRST FLOOR PARTIAL CONSTRUCTION PLAN



INTENT OF DEMOLITION IS TO REMOVE EXISTING EXTERIOR WALL CONSTRUCTION DOWN TO EXISTING STUDS ON THE WEST FACING EXTERIOR WALL. VERIFY EXTENT OF DEMOLITION WITH NEW CONSTRUCTION DIMENSIONS. SEE FIRST FLOOR PARTIAL CONSTRUCTION PLAN

FIRST FLOOR DEMOLITION PLAN
 NORTH SCALE: 1/4" = 1'-0"

WALL TYPES:

- INTERIOR WALL
5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES OF 2X4 STAGGERED WOOD STUDS 16" O.C. w/ THERMAL BATTS. EXTEND FROM FINISH FLOOR TO UNDERSIDE OF STRUCTURE ABOVE
- INTERIOR WALL
5/8" TYPE "X" GYPSUM BOARD ON EXISTING 2X4 WOOD STUDS @ 16" O.C. w/ SOUND ATTENUATION BLANKETS. EXTEND FROM FINISH FLOOR TO UNDERSIDE OF STRUCTURE ABOVE.
- INTERIOR WALL
5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES OF NEW 2X4 WOOD STUDS @ 16" O.C. w/ SOUND ATTENUATION BLANKETS. EXTEND FROM FINISH FLOOR TO UNDERSIDE OF STRUCTURE ABOVE.

DEMOLITION KEYNOTES

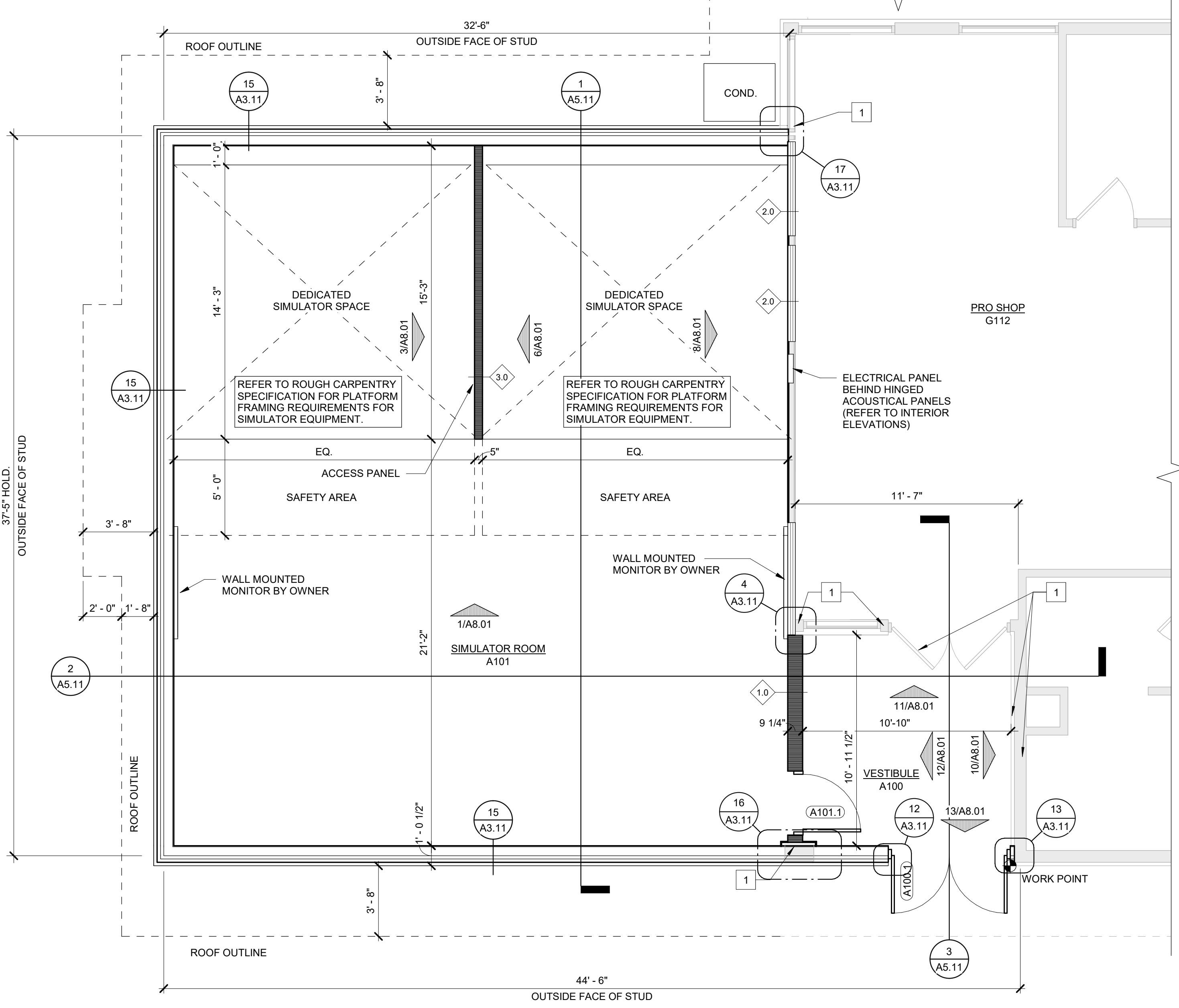
- REMOVE EXISTING WALL CONSTRUCTION COMPLETELY - FULL HEIGHT
- REMOVE EXISTING WINDOW, FRAME, AND SILL COMPLETELY
- REMOVE EXISTING WOOD SIDING, TRIM, OSB LAYER AND RIGID INSULATION COMPLETELY
- REMOVE EXISTING C.M.U. SPLITFACE BLOCK COMPLETELY
- EXISTING WOOD STUD, BATT INSULATION, AND GYP. BOARD TO REMAIN
- REMOVE EXISTING ROUGH SAWN CEDAR

PLAN KEYNOTES

- EXISTING TO REMAIN

CONSTRUCTION GENERAL NOTES:

- WALL TYPES ARE INDICATED AS A DIAMOND WITH A NUMBER. REFER TO THIS SHEET FOR DESCRIPTION OF WALL TYPES.
- PLAN DIMENSIONS DO NOT INCLUDE WALL THICKNESS (REFER TO WALL TYPES).
- WINDOW TYPES ARE INDICATED AS AN OVAL WITH "W" AND A NUMBER. REFER TO SHEET A3.11 FOR WINDOW ELEVATIONS.
- DOOR FRAMES ARE TO BE LOCATED 4" FROM THE PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR AT GYPSUM WALL LOCATIONS AND 8" AT MASONRY WALLS UNLESS NOTED OTHERWISE.
- PROVIDE BLOCKING AT ALL WALL AND CEILING MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO: PLUMBING ACCESSORIES, MONITORS, MEDICAL EQUIPMENT, ETC.
- ALL AREAS DAMAGED BY DEMOLITION WORK ARE TO BE PATCHED AND REPAIRED OR REPLACED TO MATCH ADJACENT SURFACES.
- PATCH AND REPAIR REMAINING WALLS: AT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION POINTS WITH SIMILAR MATERIALS IN SIZE, COLOR AND TEXTURE.
- REMOVE ALL NAILS, FASTENERS AND MISCELLANEOUS ITEMS ATTACHED TO WALLS. PREPARE ALL EXISTING SURFACES AS NEEDED TO RECEIVE NEW FINISHES.
- PATCH AND REPAIR ALL EXISTING FLOORS AS REQUIRED WHERE EXISTING WALLS HAVE BEEN REMOVED.
- FURNITURE OR EQUIPMENT TO BE BUILT AND/OR INSTALLED BY CONTRACTOR IS SPECIFICALLY NOTED, DIMENSIONED OR DETAILED. ALL OTHER FURNITURE OR EQUIPMENT WILL BE PROVIDED AND INSTALLED BY OWNER.



FIRST FLOOR PARTIAL CONSTRUCTION PLAN
 NORTH SCALE: 1/4" = 1'-0"

ISSUED FOR BID	05/12/26
NO.	REVISION
	DATE

WAK
 WILLIAM A. KIBBE & ASSOCIATES, INC.
 ENGINEERS | ARCHITECTS | SURVEYORS

WTA ARCHITECTS
 100 S Jefferson Ave, Suite 601
 Saginaw, Michigan 48607
 989 752 8107

ITB - 4650

PROJECT TITLE
 ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

MIDLAND, MICHIGAN

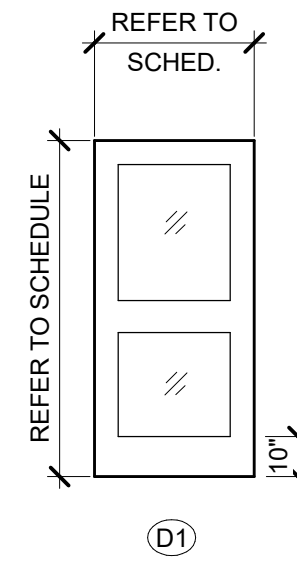
SHEET TITLE
FIRST FLOOR MASTER, DEMOLITION & PARTIAL CONSTRUCTION PLAN

PROJECT NUMBER
2025104

PROJECT DATE
 2026

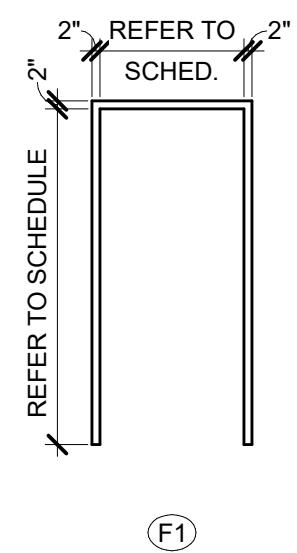
CHECKED BY
 Checker

SHEET NUMBER
A2.21

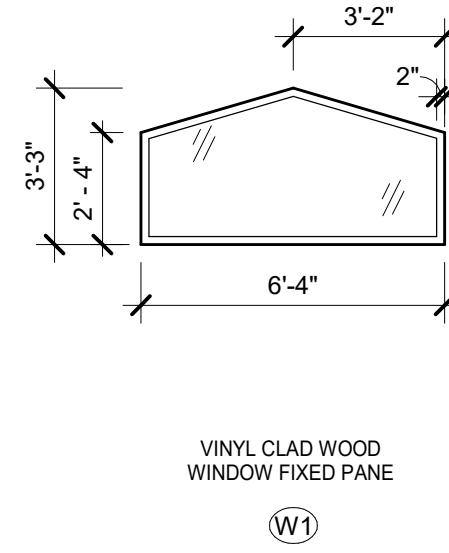


DOOR TYPES
1/4" = 1'-0"

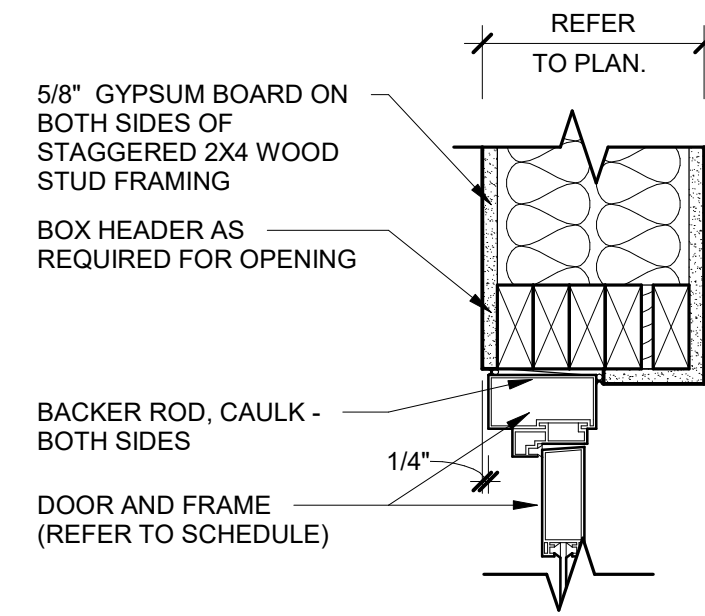
DOOR NUMBER	WIDTH	HEIGHT	DOOR PANEL			DOOR FRAME			DETAILS **SIM.			REMARKS	HW SET
			TYPE	MAT.	FINISH	TYPE	MAT.	FINISH	HEAD	JAMB	SILL		
A100.1	(2) 3'-0"	8'-0"	D1	ALUM.		F1	ALUM.		10/A3.11	11,12/A3.11	ALUM.		01
A101.1	3'-0"	8'-0"	D1	ALUM.		F1	ALUM.		8/A3.11	9/A3.11			02



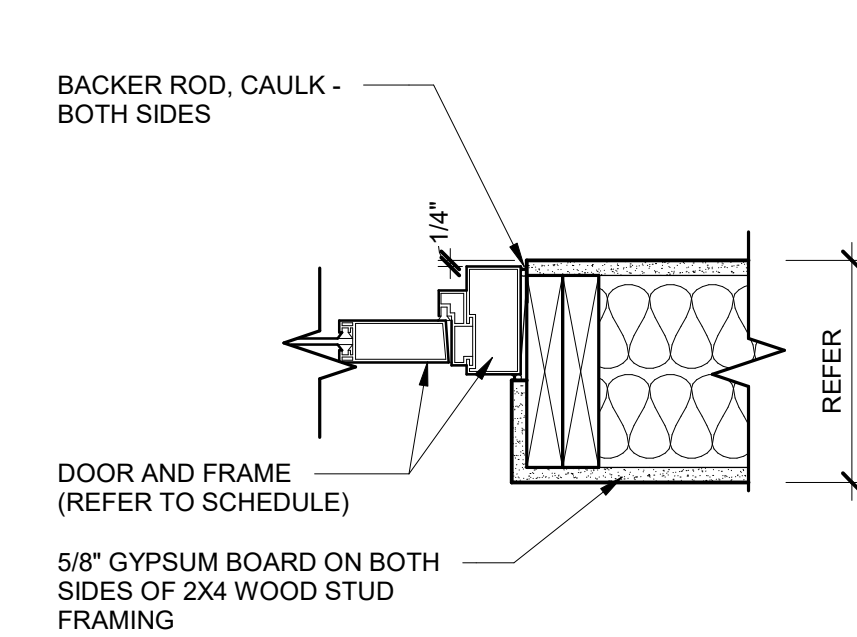
FRAME TYPES
1/4" = 1'-0"



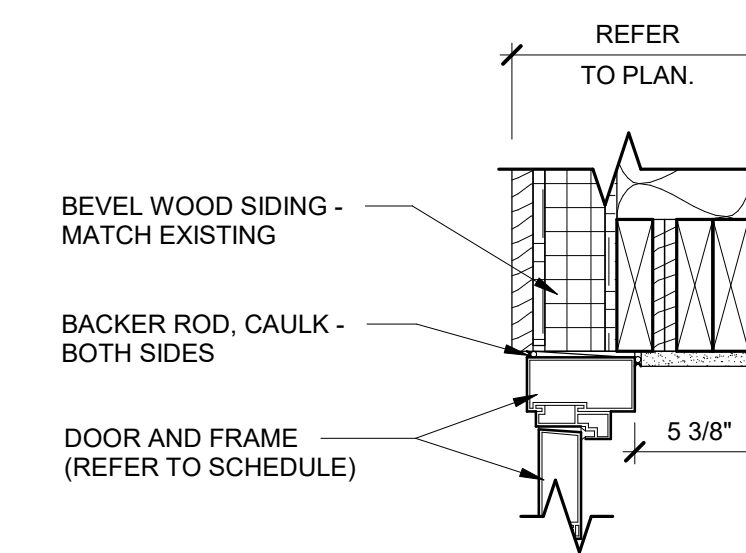
WDW TYPES
1/4" = 1'-0"



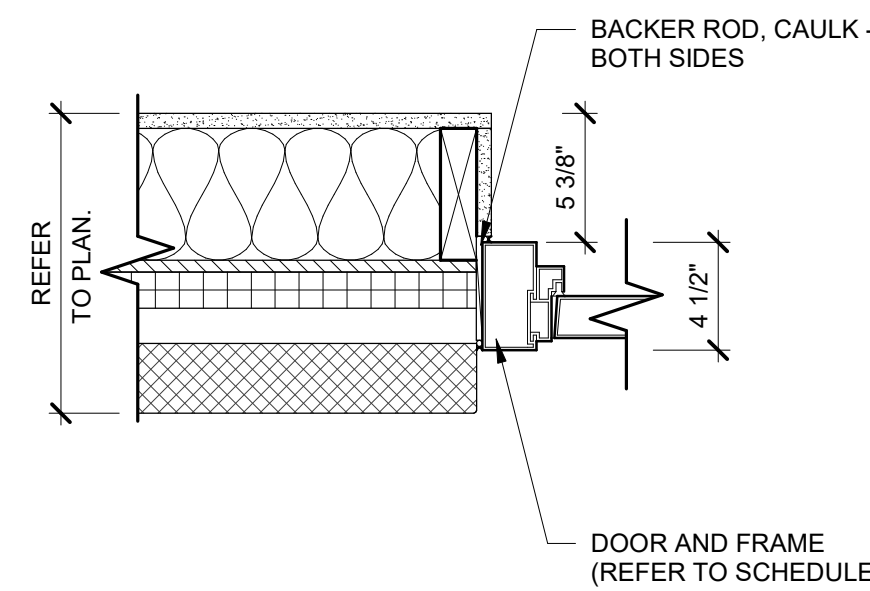
8 DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



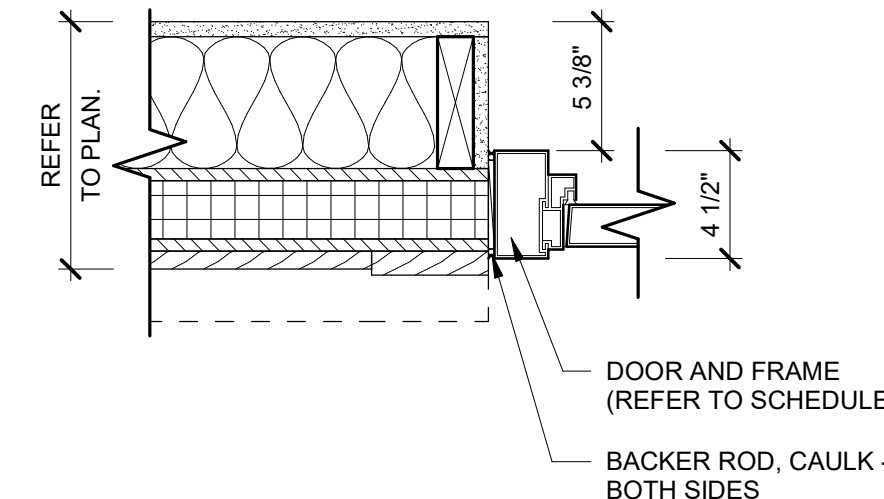
9 DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



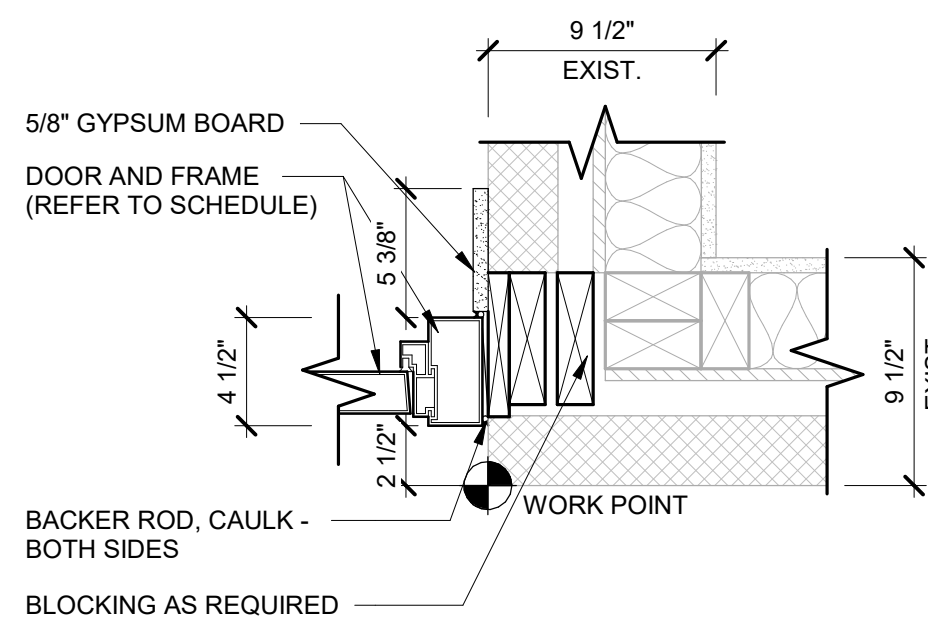
10 DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



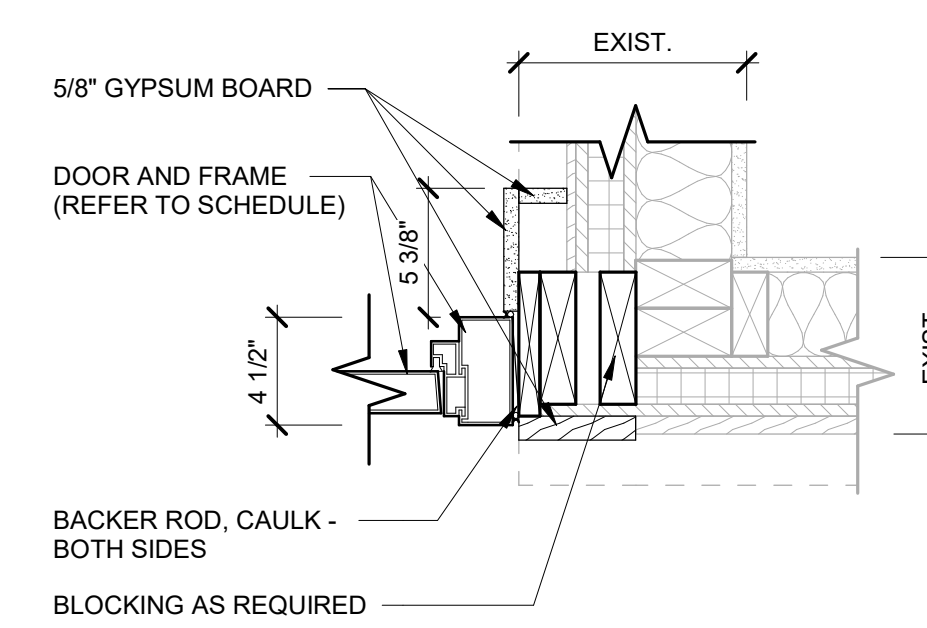
11 DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



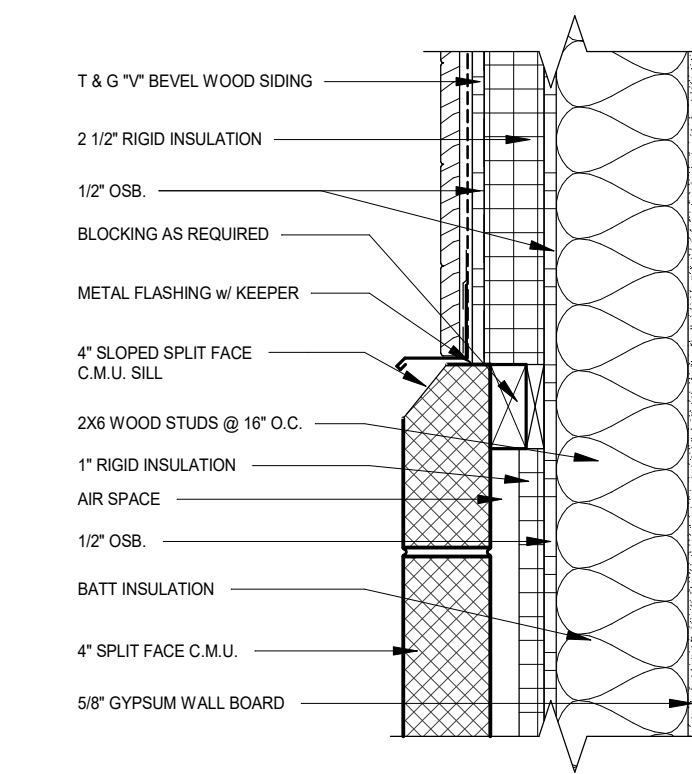
12 DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



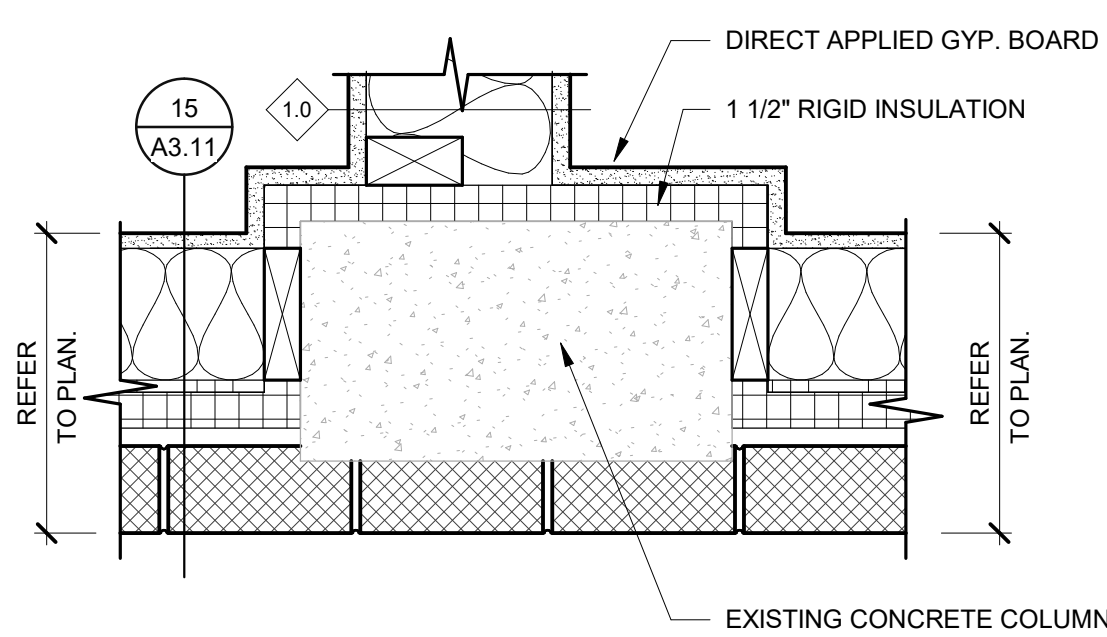
13 DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



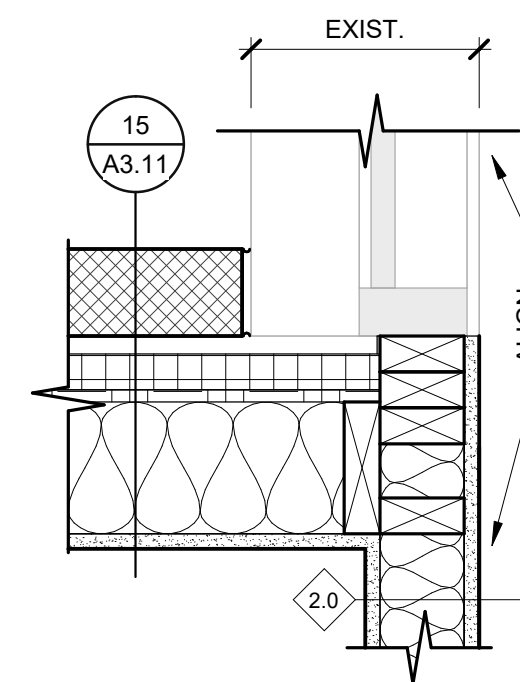
14 DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



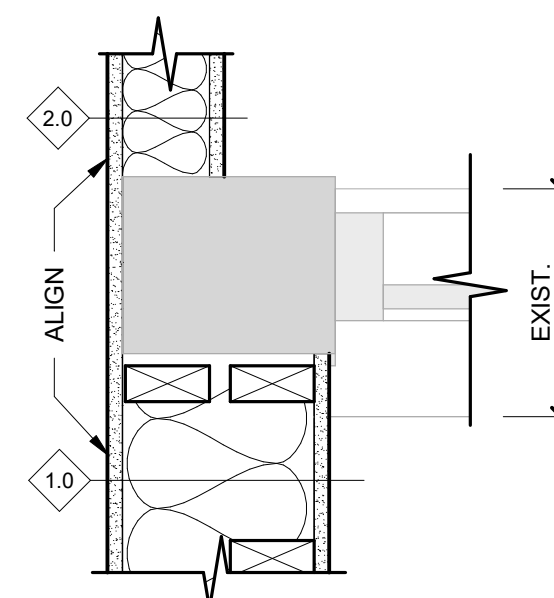
15 EXTERIOR WALL DETAIL
SCALE: 1 1/2" = 1'-0"



16 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



17 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

ISSUED FOR BID	05/12/26
NO.	REVISION
	DATE



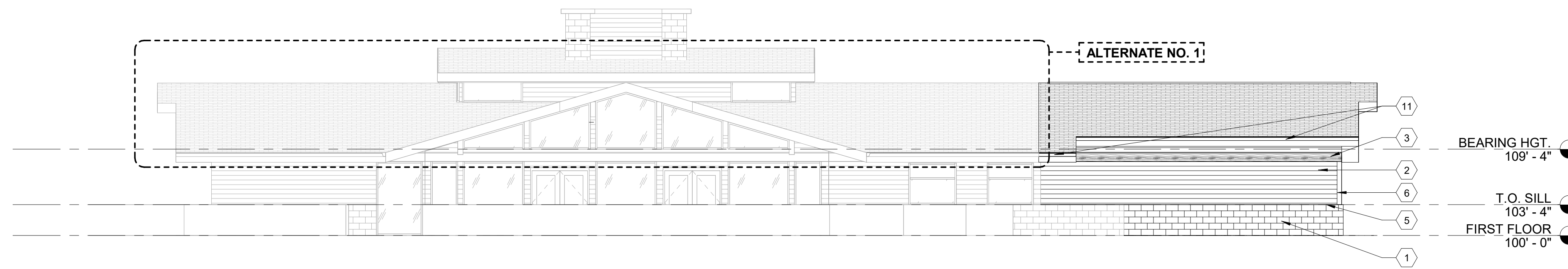
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

ITB - 4650

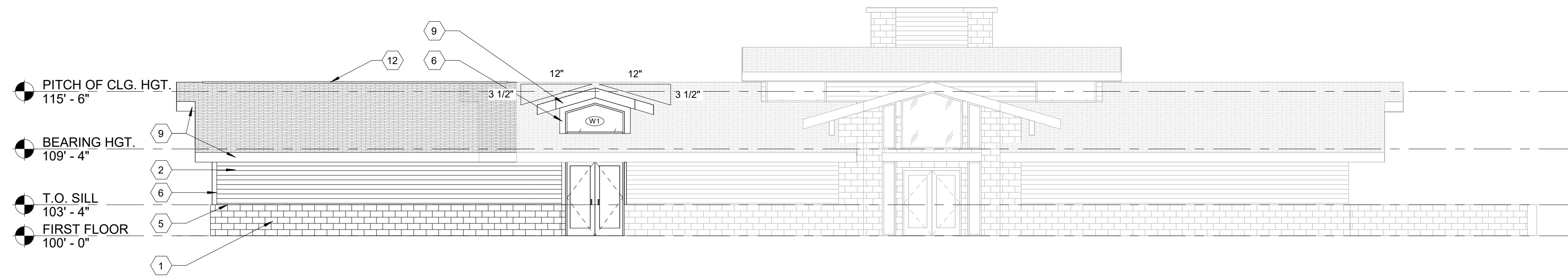
PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE
MIDLAND, MICHIGAN

SHEET TITLE
DOOR & FRAME SCHEDULE, TYPES AND DETAILS

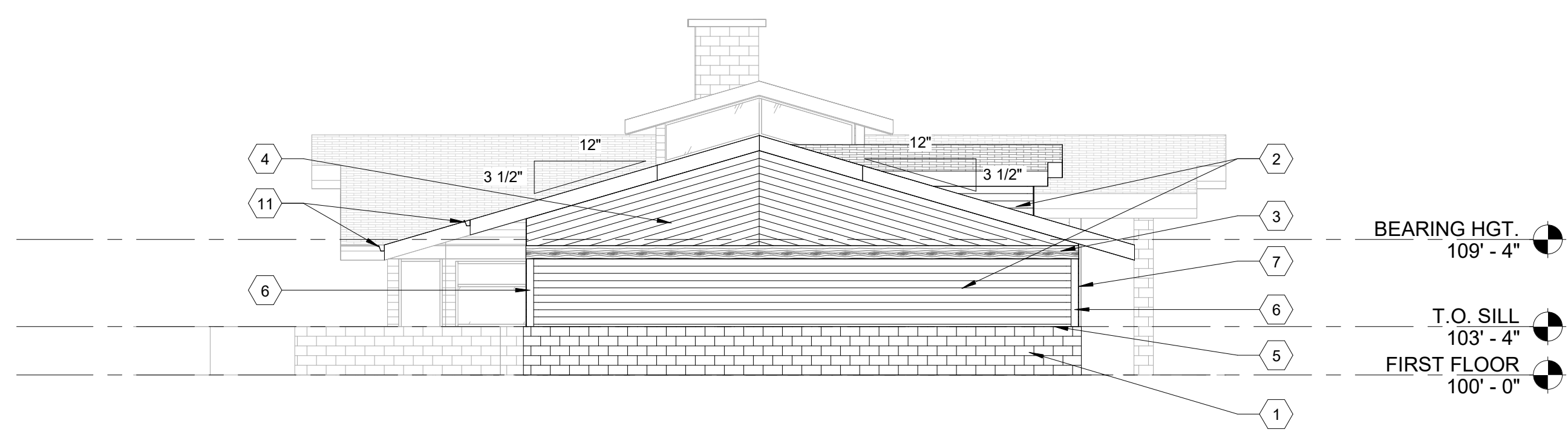
PROJECT NUMBER 2025104	SHEET NUMBER A3.11
PROJECT DATE 2026	
CHECKED BY Checker	



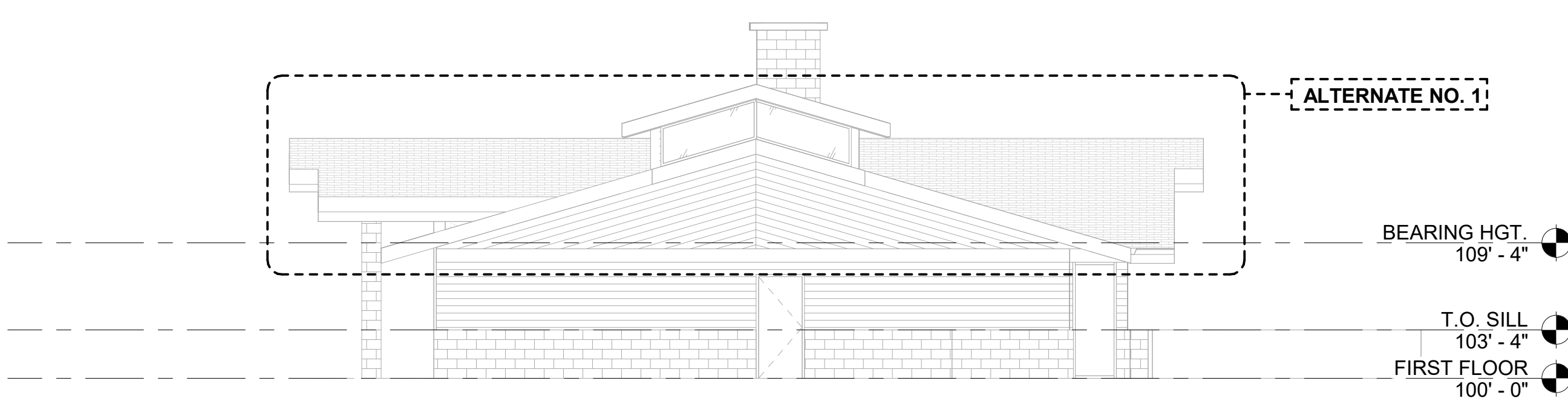
NORTH ELEVATION
1/A5.01 SCALE: 1/8" = 1'-0"



SOUTH ELEVATION
4/A5.01 SCALE: 1/8" = 1'-0"



WEST ELEVATION
2/A5.01 SCALE: 1/8" = 1'-0"



EAST ELEVATION
3/A5.01 SCALE: 1/8" = 1'-0"

EAST ELEVATION SHOWN FOR REFERENCE ONLY

MATERIAL KEYNOTES

- 1 4" SPLITFACE C.M.U. BLOCK TO MATCH ADJOINING CONSTRUCTION
- 2 HORIZONTAL WOOD T & G "V" GROOVE SIDING OVER WEATHER BARRIER, OVER 1/2 SHEATHING - PROFILE AND FINISH TO MATCH EXISTING CONSTRUCTION
- 3 WOOD TRIM STAIN, SIZING & COLOR TO MATCH ADJOINING
- 4 DIAGONAL WOOD T & G "V" GROOVE SIDING STAIN, SIZING & COLOR TO MATCH ADJOINING
- 5 4" C.M.U. SPLITFACE SILL
- 6 1X6 WOOD TRIM STAIN, SIZING & COLOR TO MATCH ADJOINING
- 7 REINFORCED CONCRETE FOOTING; SEE STRUCTURAL
- 9 1X12 FACIA BOARD STAIN, COLOR & SIZING TO MATCH ADJOINING
- 10 ASPHALT ROOF SHINGLES OVER 201B ROOFING FELT ON 18/32" APA RATED SHEATHING - PROVIDE ICE AND WEATHER WATER SHIELD MIN OF 24" INSIDE FACE OF BUILDING LINE, VALLEYS & ANY PENETRATIONS
- 11 ROOF GUTTER
- 12 RIDGE VENT
- 13 PRE-ENGINEERED WOOD TRUSSES (REFER TO STRUCTURAL)
- 14 REINFORCED CONCRETE SLAB OVER VAPOR BARRIER OVER FILL; SEE STRUCTURAL
- 15 3" RIGID INSULATION (R15 MN.)
- 16 1" RIGID INSULATION - (MIN R-3.8)
- 17 THERMAL BATT INSULATION (MIN. R-49)
- 18 5/8" GYPSUM BOARD, PAINT
- 19 WOOD BASE - PROFILE TO MATCH EXISTING BUILDING (1x6)
- 20 LAMINATED BEAM SEE STRUCTURAL DRAWINGS
- 21 CONTINUOUS LINEAR VENT W/SCREEN, STYLE TO MATCH EXISTING
- 22 ROOF TO WALL VENT
- 23 THRU WALL BASE FLASHING
- 24 CAVITY FILL MORTAR NET
- 25 BRICK WEEPS 24" O.C.

ISSUED FOR BID	05/12/26
NO.	REVISION DATE



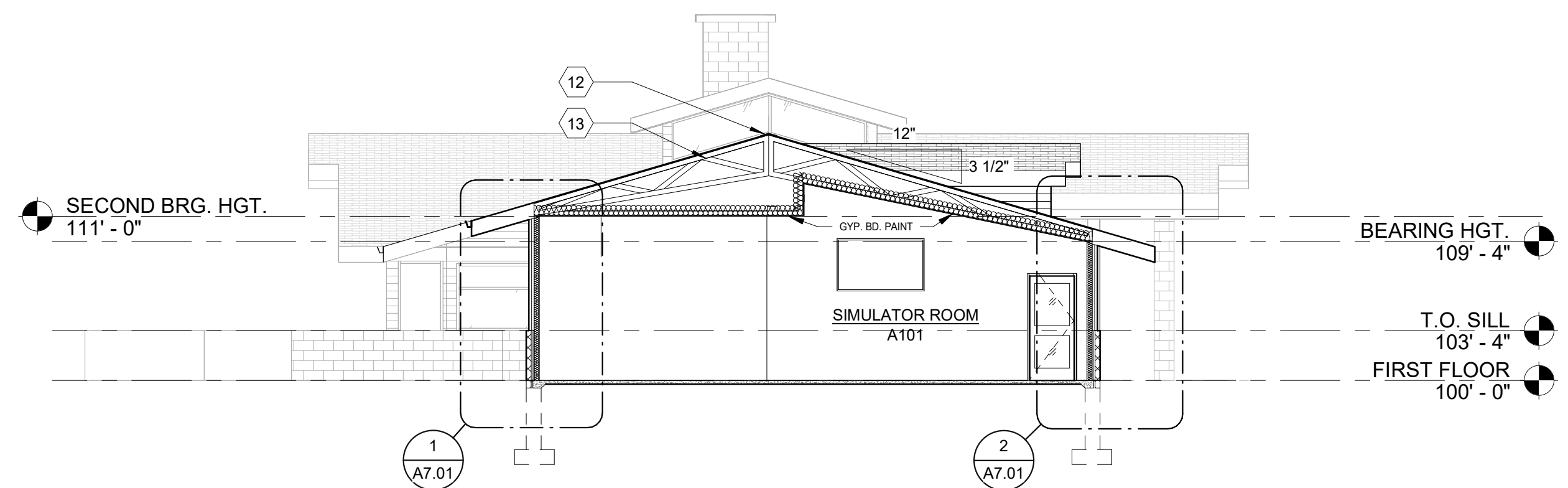
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107 COPYRIGHT © 2026

ITB - 4650

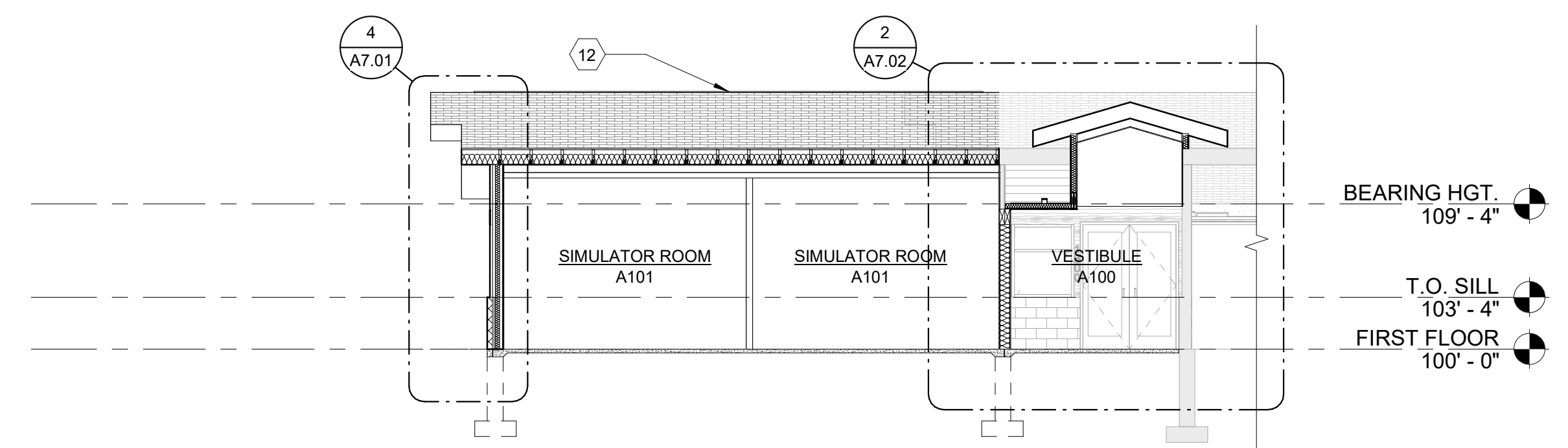
PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE
MIDLAND, MICHIGAN

SHEET TITLE
EXTERIOR ELEVATIONS

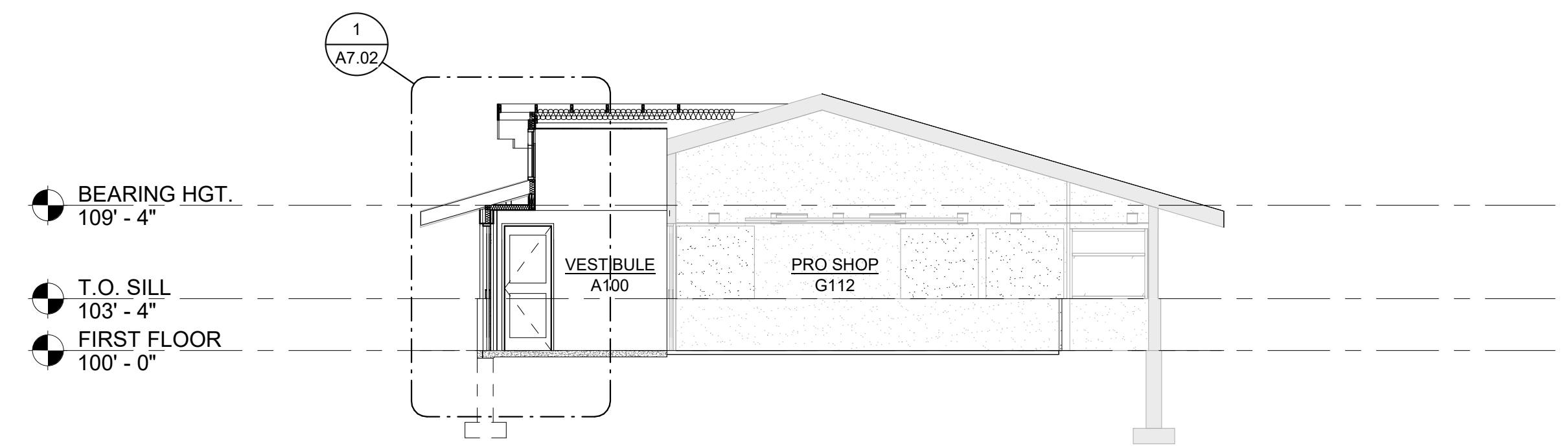
PROJECT NUMBER 2025104	SHEET NUMBER A5.01
PROJECT DATE 2026	
CHECKED BY Checker	



1 BUILDING SECTION - WEST
SCALE: 1/8" = 1'-0"



2 BUILDING SECTION - SOUTH
SCALE: 1/8" = 1'-0"



3 BUILDING SECTION - EAST
SCALE: 1/8" = 1'-0"

ISSUED FOR BID	05/12/26
NO.	REVISION DATE



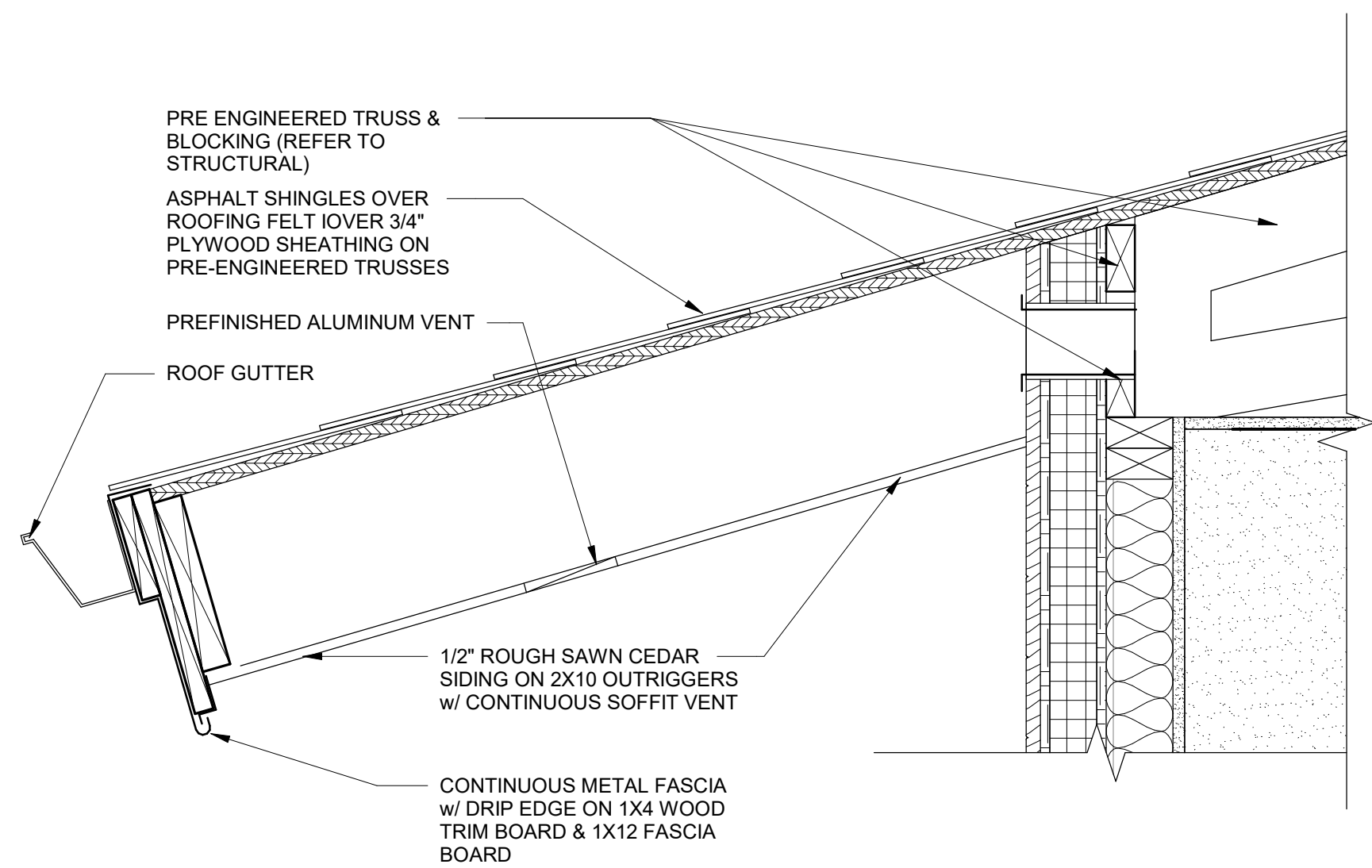
WTAARCH.COM
WTA ARCHITECTS
 100 S Jefferson Ave, Suite 601
 Saginaw, Michigan 48607
 989 752 8107 COPYRIGHT © 2026

ITB - 4650

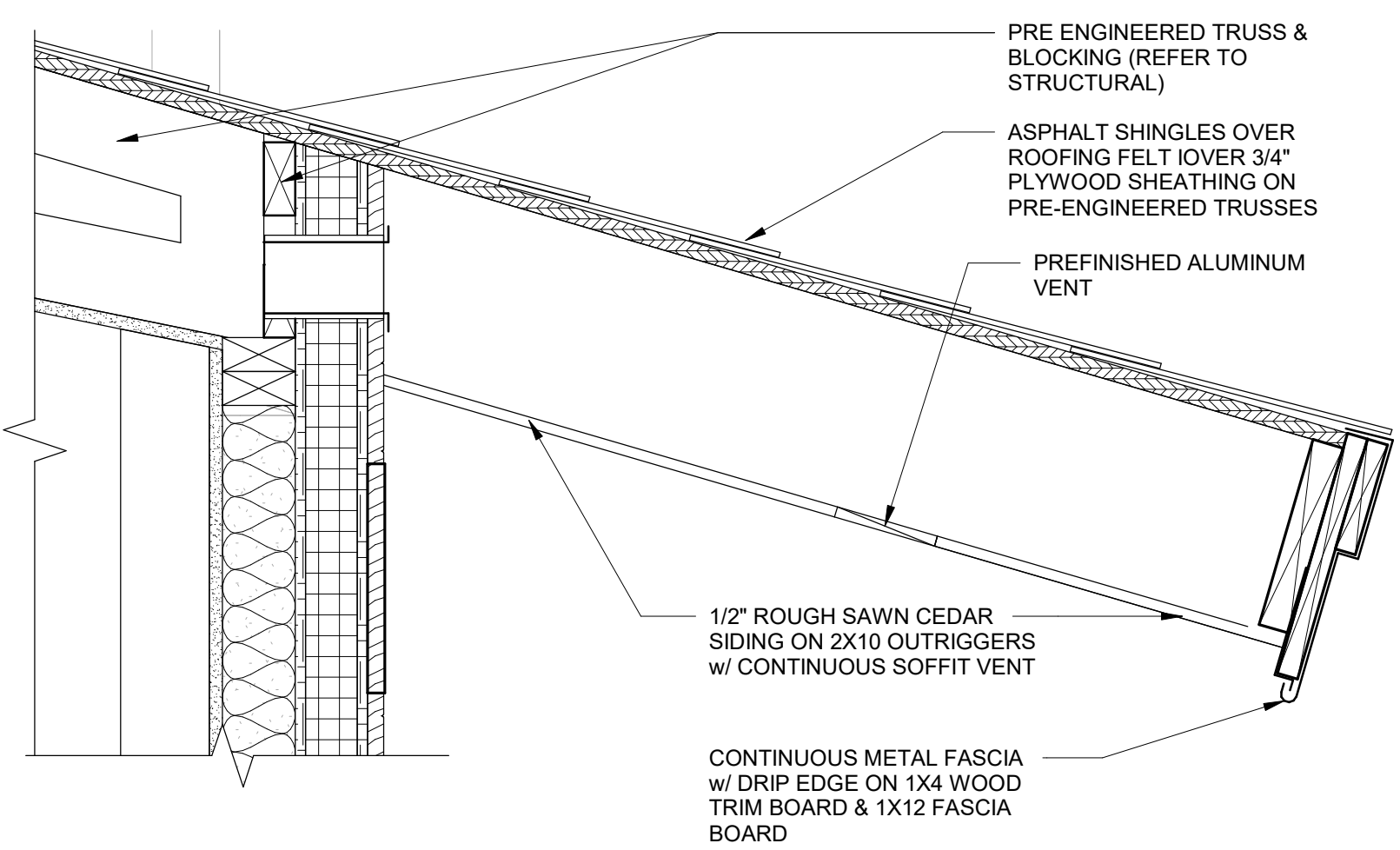
PROJECT TITLE
 ADDITION TO:
**CURRIE GOLF COURSE -
 WEST CLUBHOUSE**
 MIDLAND, MICHIGAN

SHEET TITLE
BUILDING SECTIONS

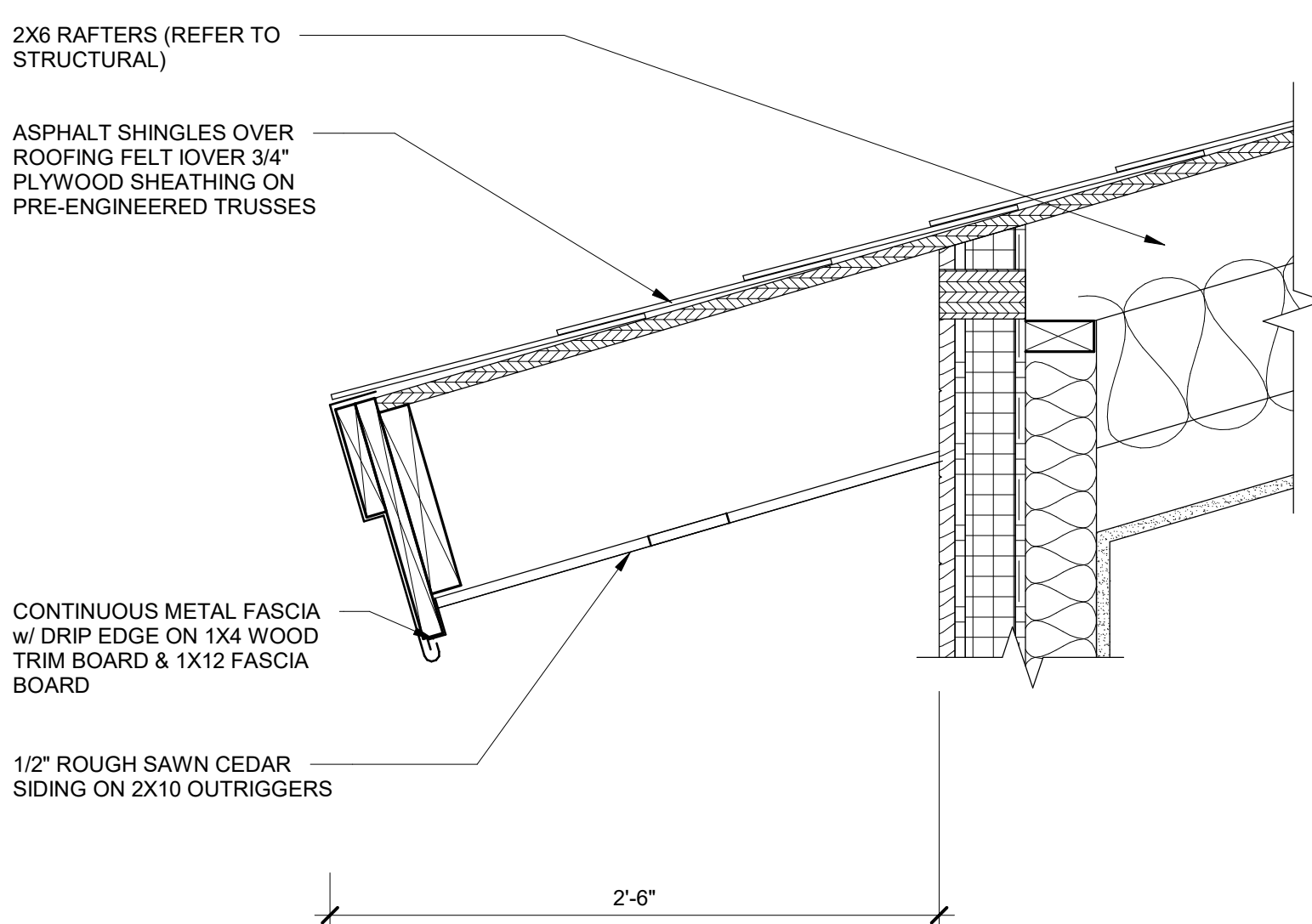
PROJECT NUMBER 2025104	SHEET NUMBER A5.11
PROJECT DATE 2026	
CHECKED BY Checker	



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



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



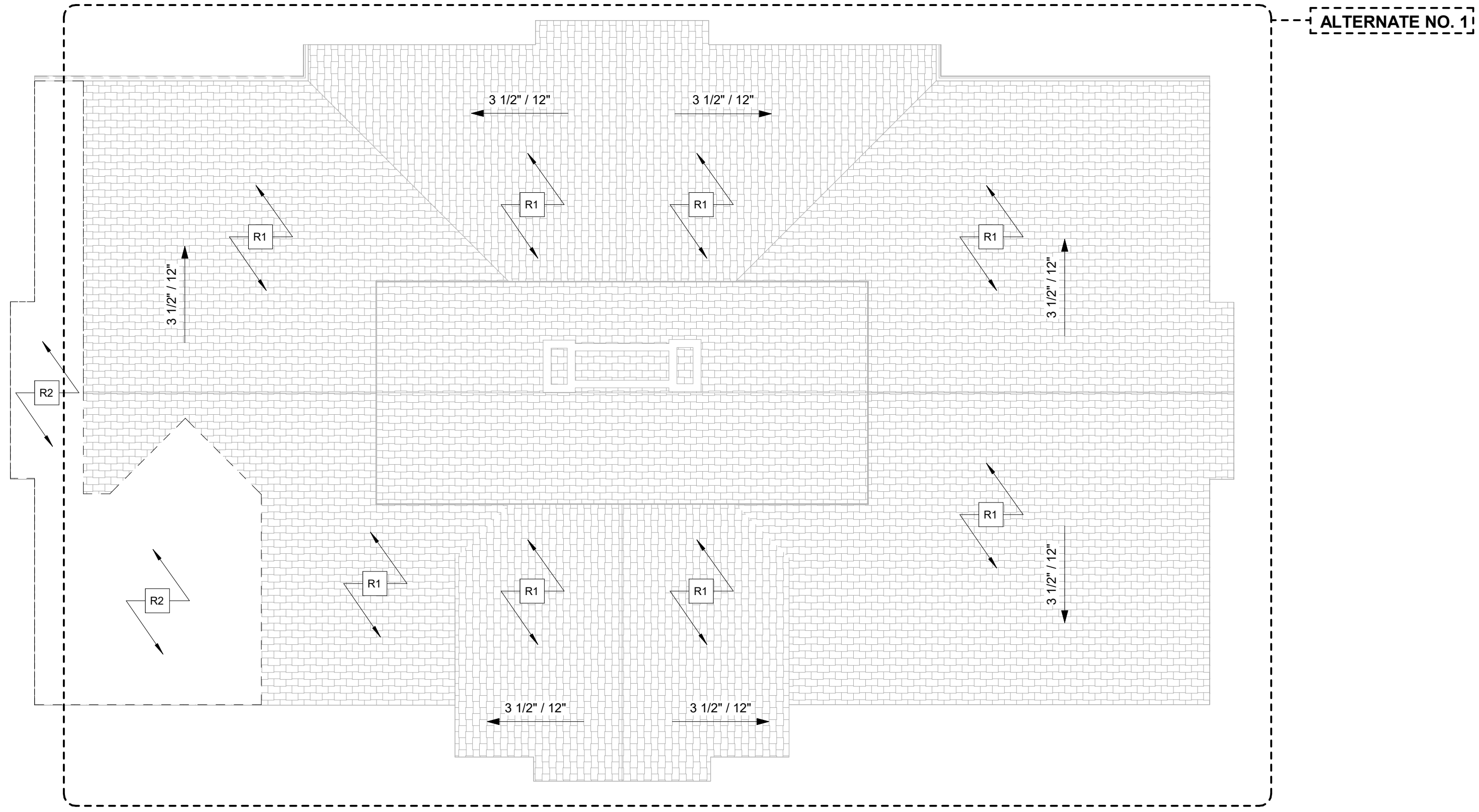
3 SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"

Roof PLAN KEYNOTES

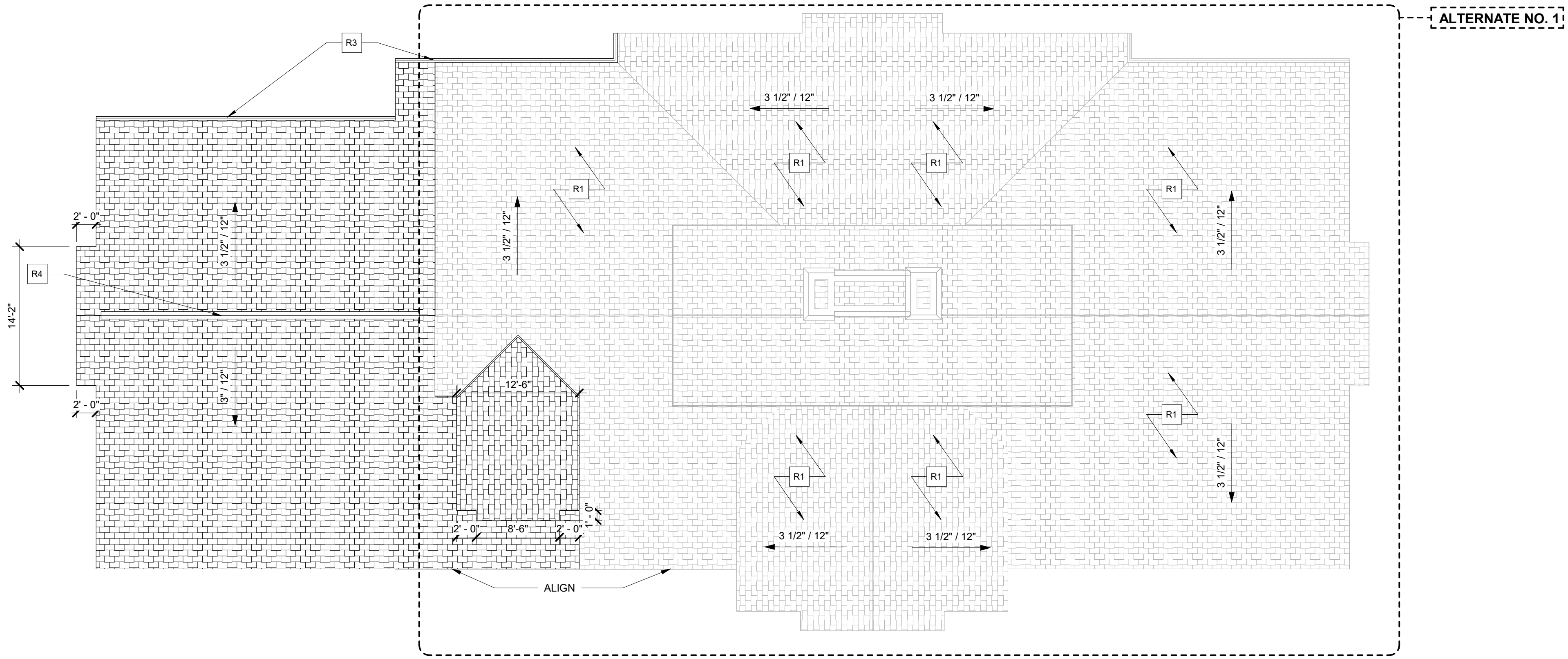
- 1 EXISTING TO REMAIN
- 2 REMOVE EXISTING ROOF CONSTRUCTION COMPLETE
- 3 ROOF GUTTER
- 4 RIDGE VENT

ROOF PLAN GENERAL NOTES:

1. GENERAL NOTE TEXT IS LOCATED HERE.



ROOF MASTER DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



ROOF MASTER CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

ISSUED FOR BID	05/12/26
NO.	REVISION
	DATE

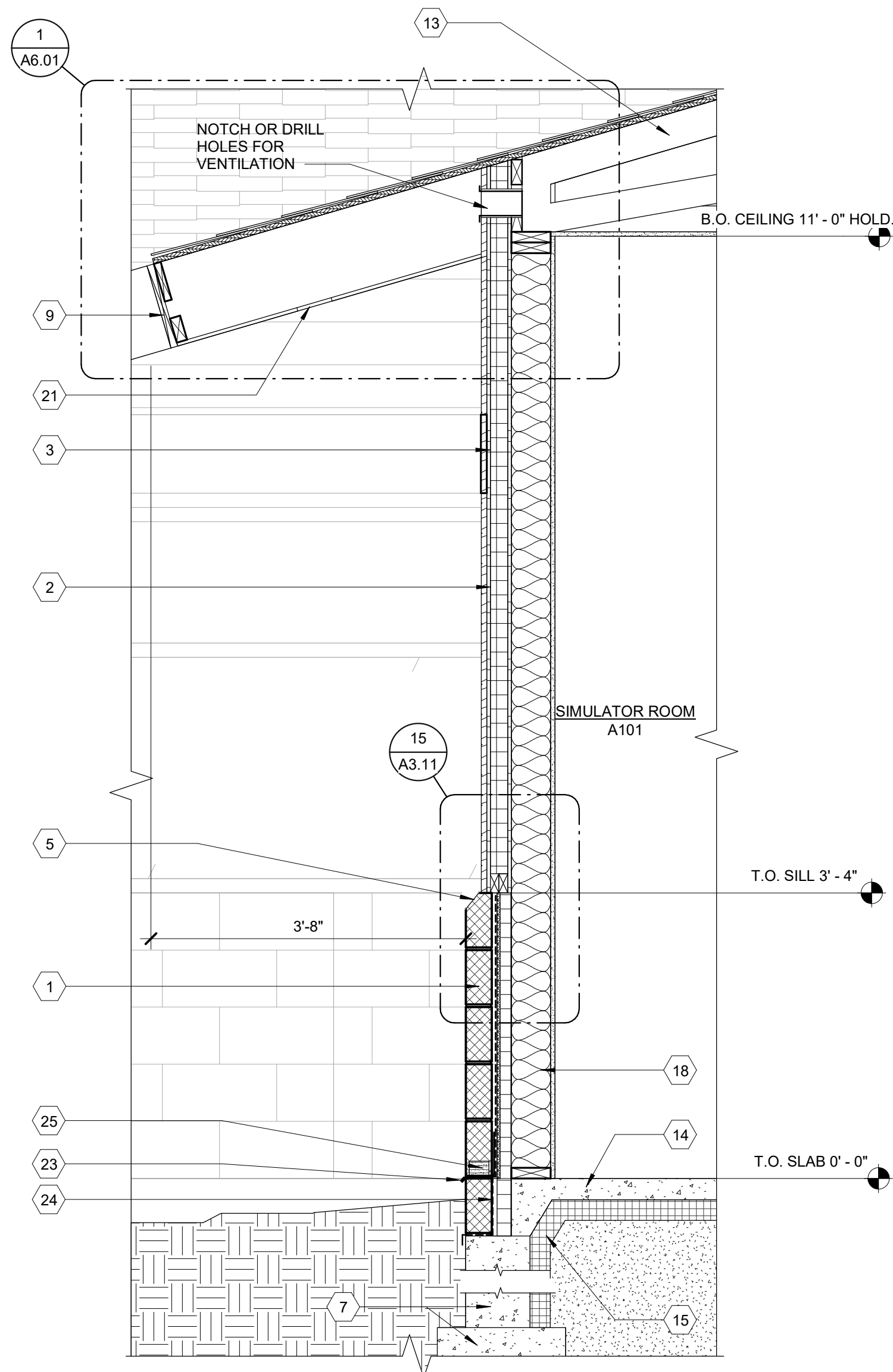
WTA ARCHITECTS
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107

ITB - 4650

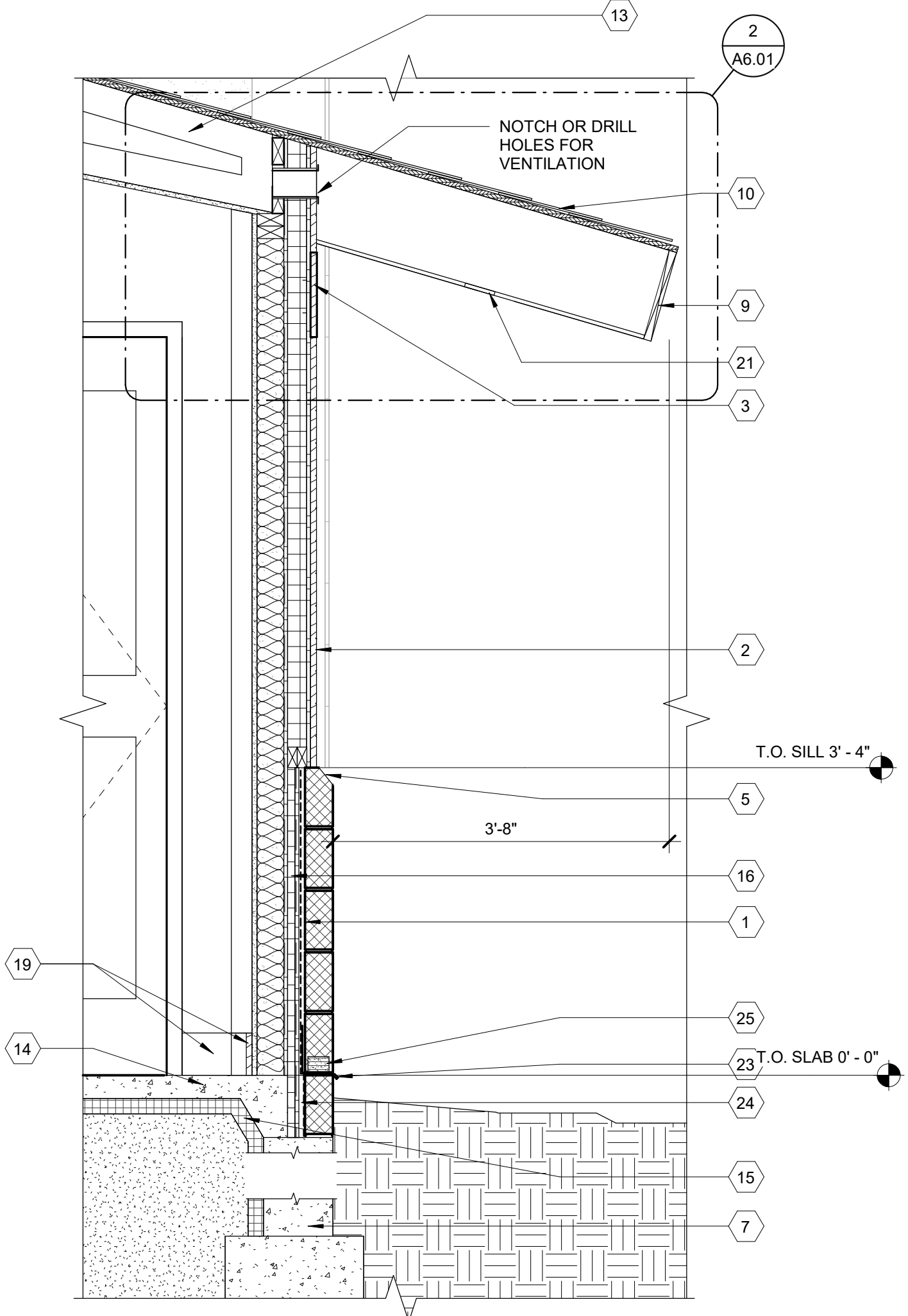
PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE
MIDLAND, MICHIGAN

SHEET TITLE
MASTER DEMOLITION & CONSTRUCTION ROOF PLAN

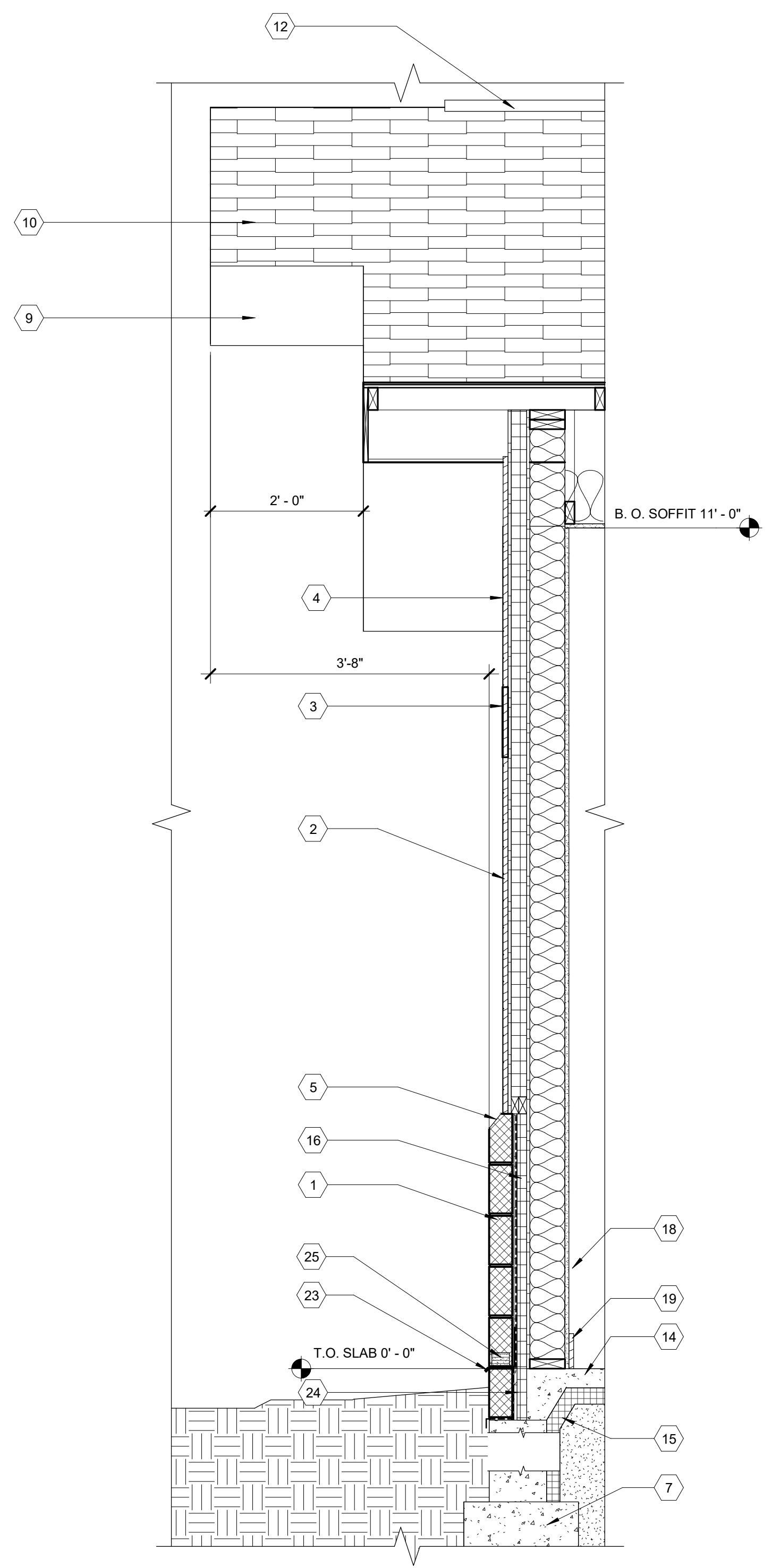
PROJECT NUMBER 2025104	SHEET NUMBER A6.01
PROJECT DATE 2026	
CHECKED BY Checker	



1 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



4 WALL SECTION
SCALE: 3/4" = 1'-0"

MATERIAL KEYNOTES

- 1 4" SPLITFACE C.M.U. BLOCK TO MATCH ADJOINING CONSTRUCTION
- 2 HORIZONTAL WOOD T & G "V" GROOVE SIDING OVER WEATHER BARRIER, OVER 1/2 SHEATHING - PROFILE AND FINISH TO MATCH EXISTING CONSTRUCTION
- 3 WOOD TRIM STAIN, SIZING & COLOR TO MATCH ADJOINING
- 4 DIAGONAL WOOD T & G "V" GROOVE SIDING STAIN, SIZING & COLOR TO MATCH ADJOINING
- 5 4" C.M.U. SPLITFACE SILL
- 6 1X6 WOOD TRIM STAIN, SIZING & COLOR TO MATCH ADJOINING
- 7 REINFORCED CONCRETE FOOTING, SEE STRUCTURAL
- 9 1X12 FACIA BOARD STAIN, COLOR & SIZING TO MATCH ADJOINING
- 10 ASPHALT ROOF SHINGLES OVER 20IB ROOFING FELT ON 19/32" APA RATED SHEATHING - PROVIDE ICE AND WEATHER WATER SHIELD MIN OF 24" INSIDE FACE OF BUILDING LINE, VALLEYS & ANY PENETRATIONS
- 11 ROOF GUTTER
- 12 RIDGE VENT
- 13 PRE-ENGINEERED WOOD TRUSSES (REFER TO STRUCTURAL)
- 14 REINFORCED CONCRETE SLAB OVER VAPOR BARRIER OVER FILL; SEE STRUCTURAL
- 15 3" RIGID INSULATION (R15 MN.)
- 16 1" RIGID INSULATION - (MIN R-3.8)
- 17 THERMAL BATT INSULATION (MIN. R-49)
- 18 5/8" GYPSUM BOARD, PAINT
- 19 WOOD BASE - PROFILE TO MATCH EXISTING BUILDING (1x6)
- 20 LAMINATED BEAM SEE STRUCTURAL DRAWINGS
- 21 CONTINUOUS LINEAR VENT W/SCREEN, STYLE TO MATCH EXISTING
- 22 ROOF TO WALL VENT
- 23 THRU WALL BASE FLASHING
- 24 CAVITY FILL MORTAR NET
- 25 BRICK WEEPS 24" O.C.

ISSUED FOR BID	05/12/26
NO.	REVISION
	DATE



WTA ARCHITECTS
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107
COPYRIGHT © 2026

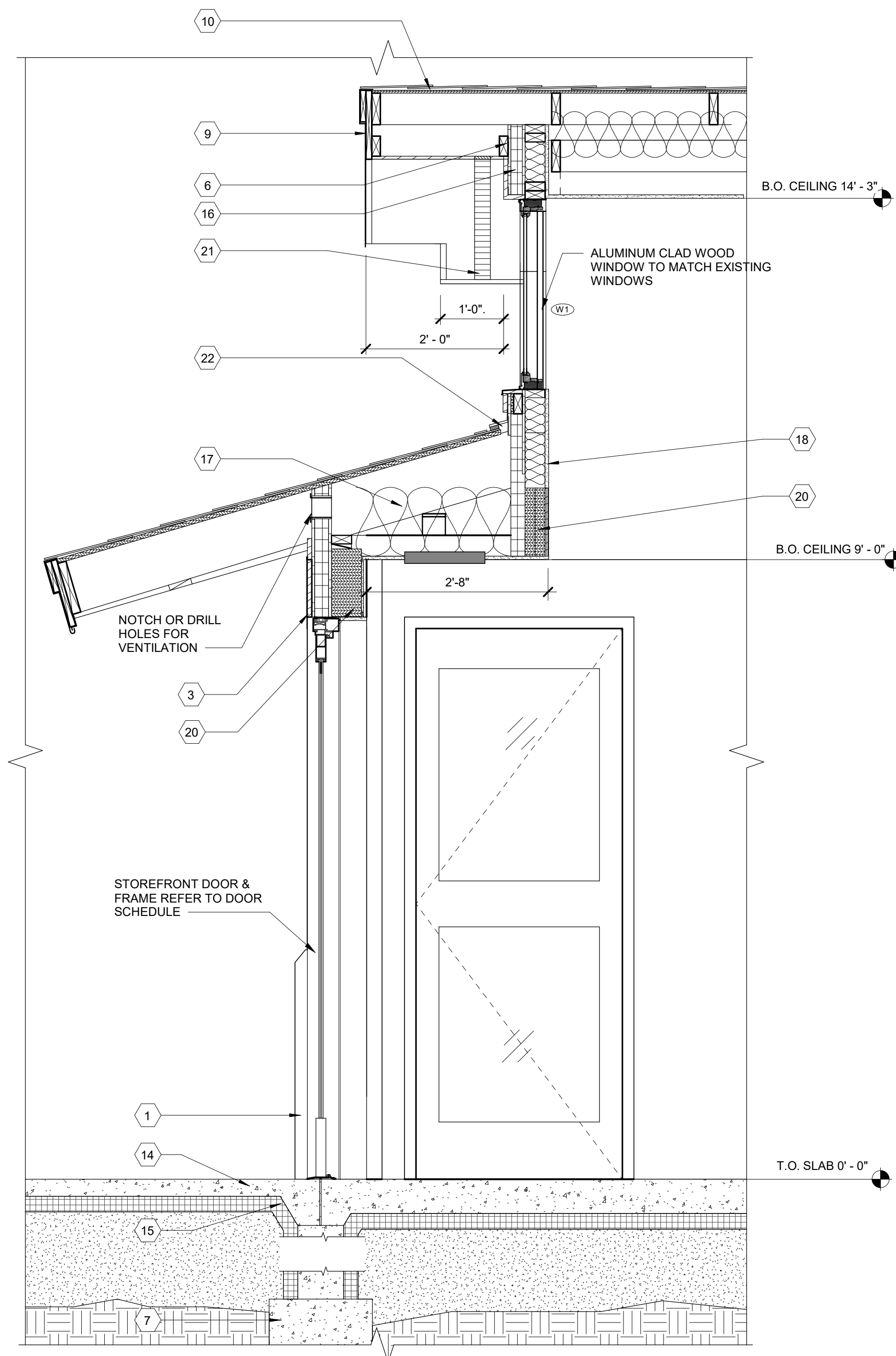
ITB - 4650

PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE -
WEST CLUBHOUSE

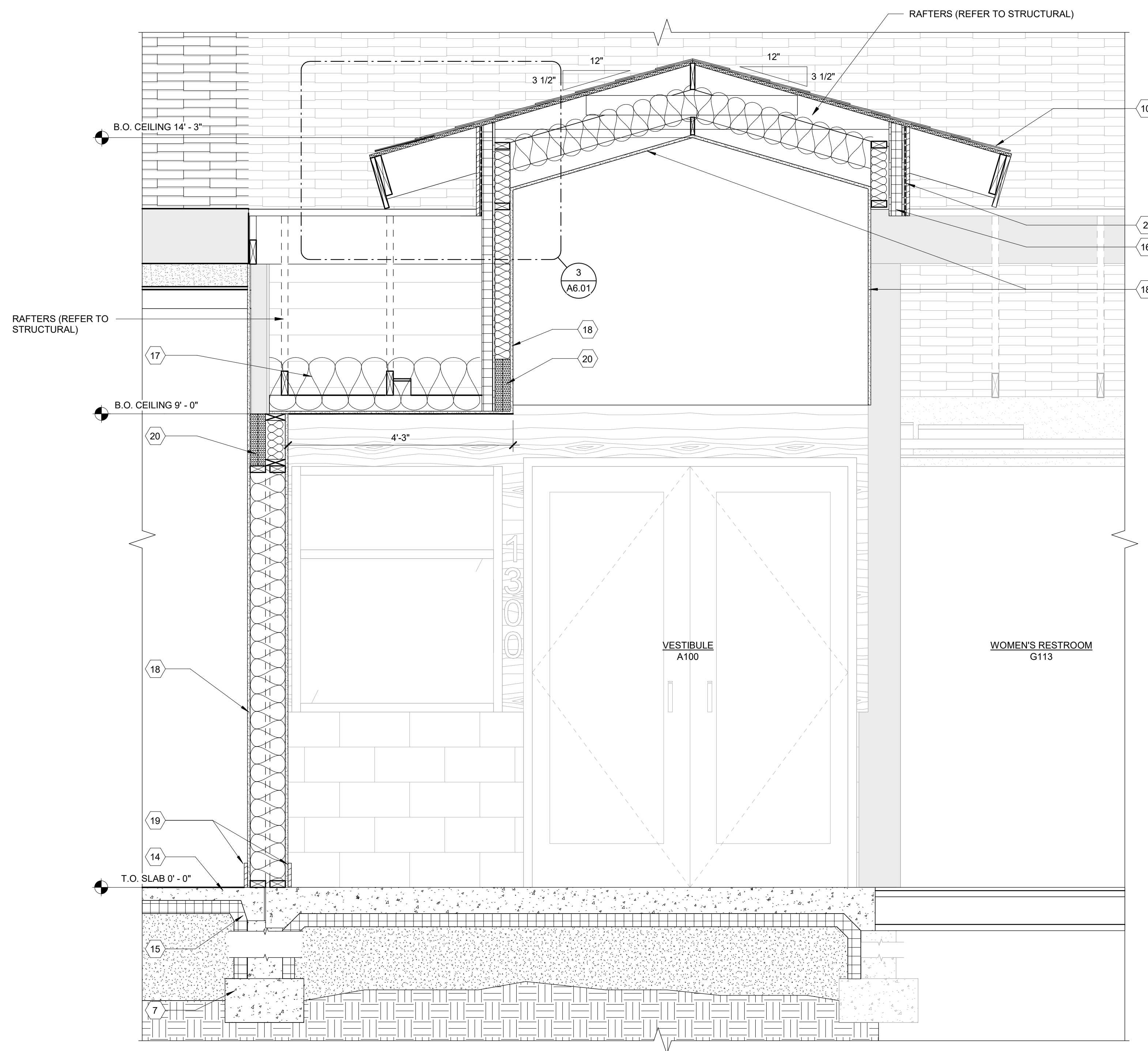
MIDLAND, MICHIGAN

SHEET TITLE
WALL SECTIONS

PROJECT NUMBER 2025104	SHEET NUMBER A7.01
PROJECT DATE 2026	
CHECKED BY Checker	



1 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"

MATERIAL KEYNOTES

- 1 4" SPLITFACE C.M.U. BLOCK TO MATCH ADJOINING CONSTRUCTION
- 2 HORIZONTAL WOOD T & G "V" GROOVE SIDING OVER WEATHER BARRIER, OVER 1/2 SHEATHING - PROFILE AND FINISH TO MATCH EXISTING CONSTRUCTION
- 3 WOOD TRIM STAIN, SIZING & COLOR TO MATCH ADJOINING
- 4 DIAGONAL WOOD T & G "V" GROOVE SIDING STAIN, SIZING & COLOR TO MATCH ADJOINING
- 5 4" C.M.U. SPLITFACE SILL
- 6 1X6 WOOD TRIM STAIN, SIZING & COLOR TO MATCH ADJOINING
- 7 REINFORCED CONCRETE FOOTING, SEE STRUCTURAL
- 9 1X12 FACIA BOARD STAIN, COLOR & SIZING TO MATCH ADJOINING
- 10 ASPHALT ROOF SHINGLES OVER 20IB ROOFING FELT ON 19/32" APA RATED SHEATHING - PROVIDE ICE AND WEATHER WATER SHIELD MIN OF 24" INSIDE FACE OF BUILDING LINE, VALLEYS & ANY PENETRATIONS
- 11 ROOF GUTTER
- 12 RIDGE VENT
- 13 PRE-ENGINEERED WOOD TRUSSES (REFER TO STRUCTURAL)
- 14 REINFORCED CONCRETE SLAB OVER VAPOR BARRIER OVER FILL; SEE STRUCTURAL
- 15 3" RIGID INSULATION (R15 MN.)
- 16 1" RIGID INSULATION - (MIN R-3.8)
- 17 THERMAL BATT INSULATION (MIN. R-49)
- 18 5/8" GYPSUM BOARD, PAINT
- 19 WOOD BASE - PROFILE TO MATCH EXISTING BUILDING (1x6)
- 20 LAMINATED BEAM SEE STRUCTURAL DRAWINGS
- 21 CONTINUOUS LINEAR VENT W/SCREEN, STYLE TO MATCH EXISTING
- 22 ROOF TO WALL VENT
- 23 THRU WALL BASE FLASHING
- 24 CAVITY FILL MORTAR NET
- 25 BRICK WEEPS 24" O.C.

ISSUED FOR BID	05/12/26
NO.	REVISION
	DATE



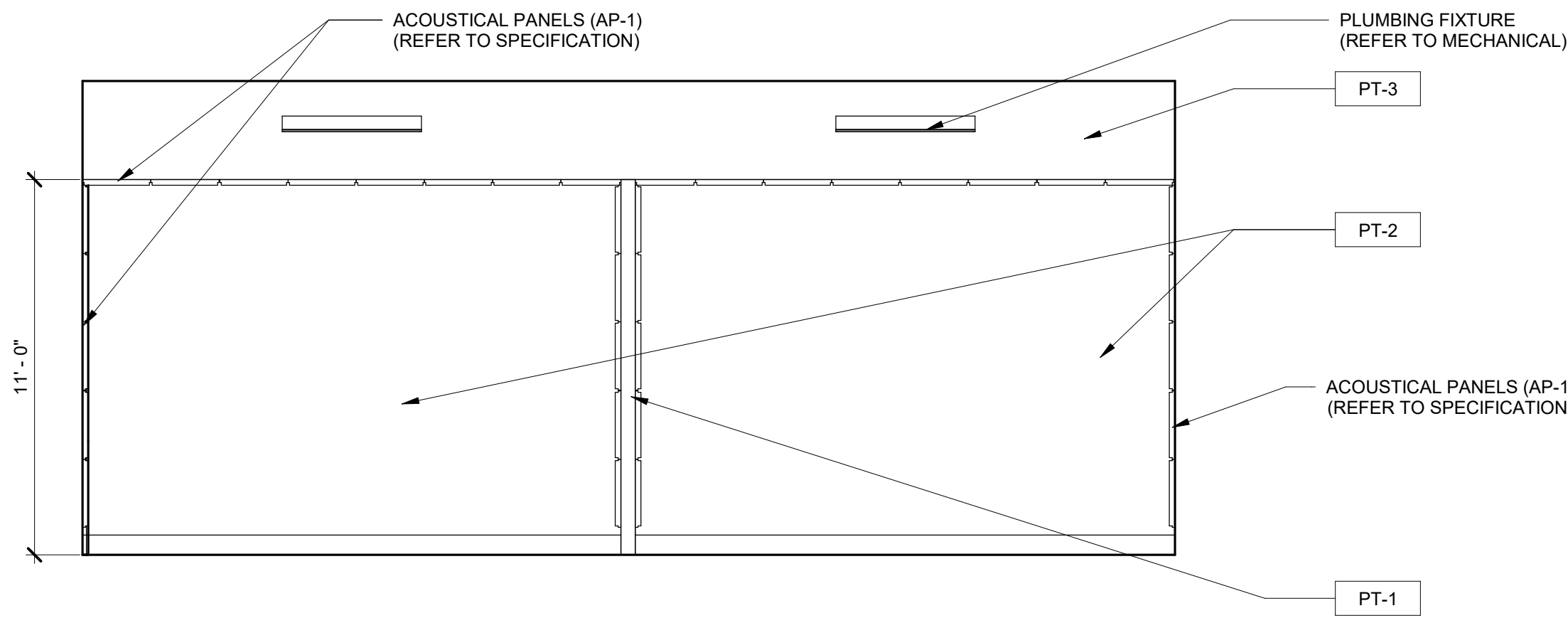
WTA ARCHITECTS
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107
WTAARCH.COM
COPYRIGHT © 2026

ITB - 4650

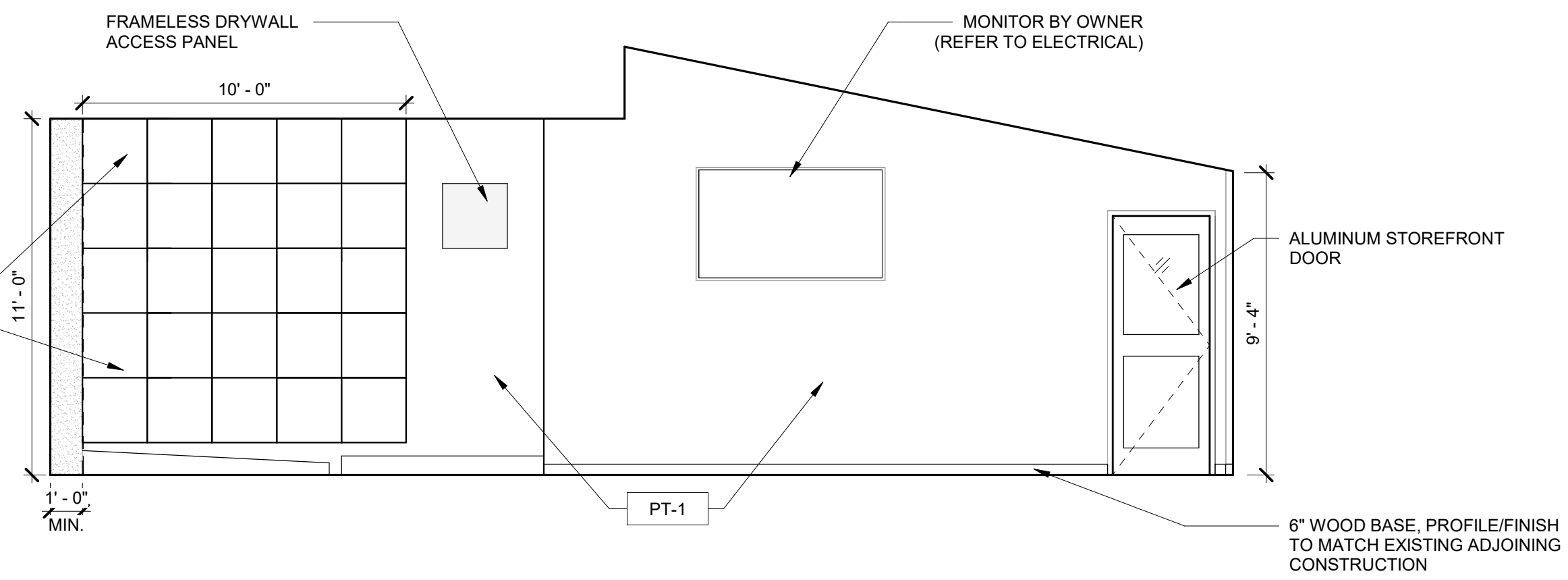
PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE -
WEST CLUBHOUSE
MIDLAND, MICHIGAN

SHEET TITLE
WALL SECTIONS

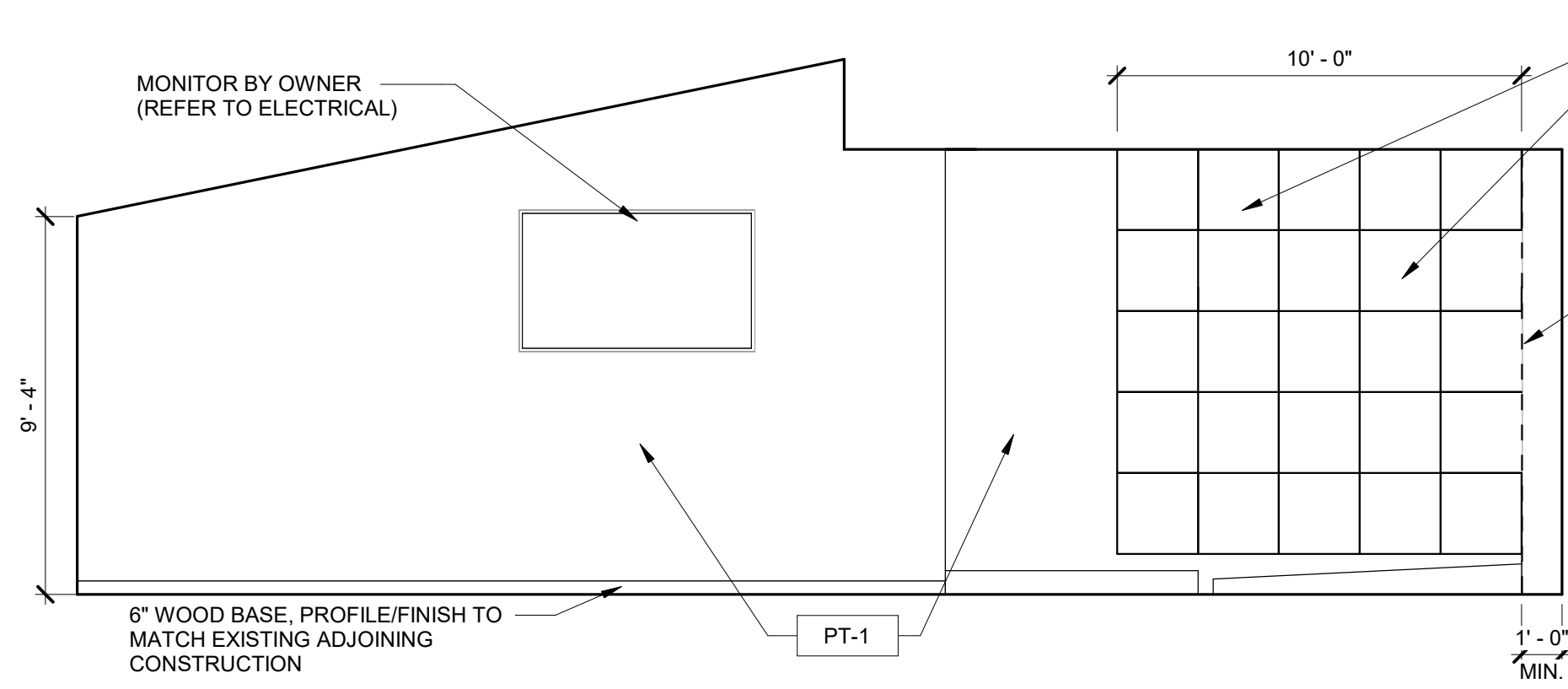
PROJECT NUMBER 2025104	SHEET NUMBER A7.02
PROJECT DATE 2026	
CHECKED BY Checker	



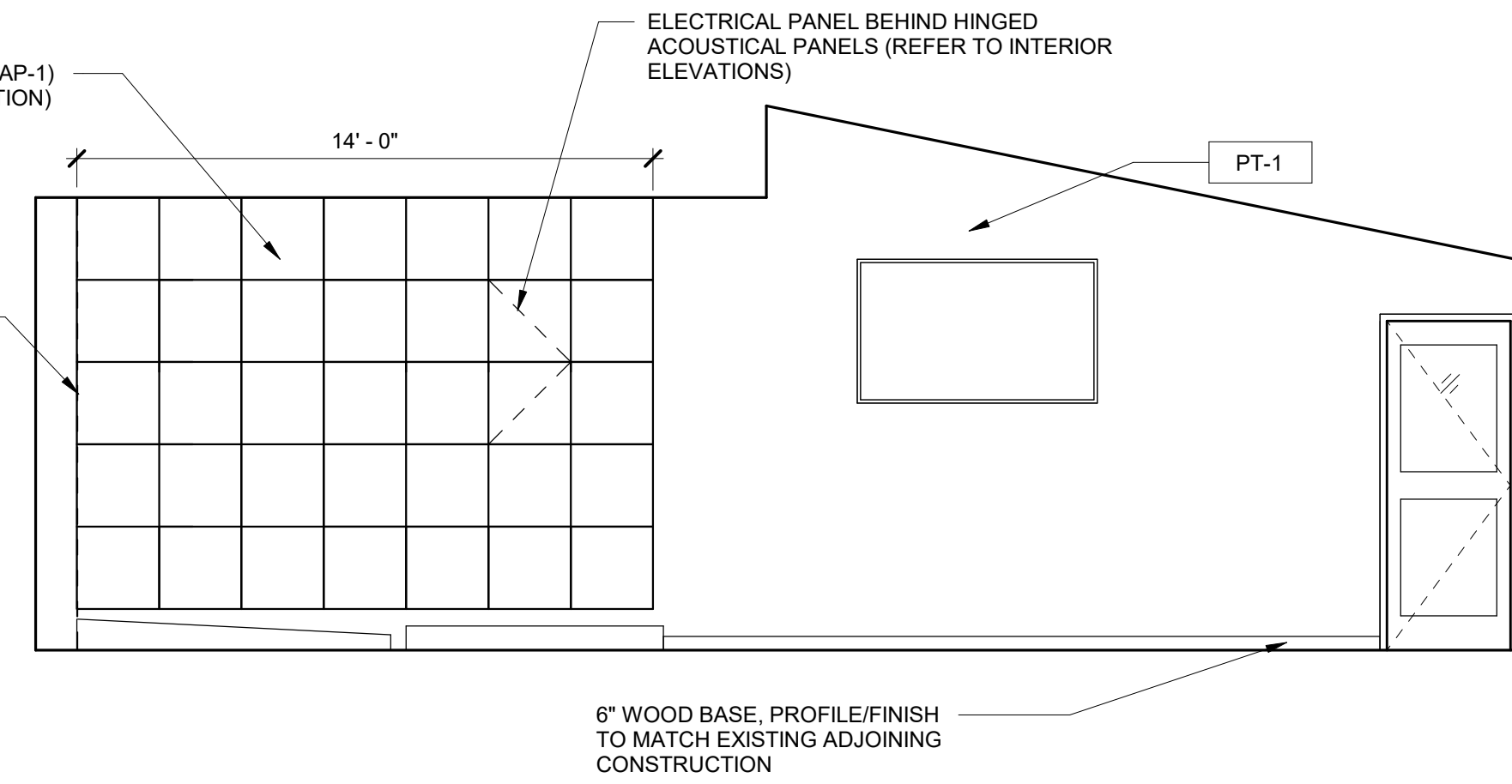
SIMULATOR ROOM A101 - NORTH
1/A8.01 SCALE: 1/4" = 1'-0"



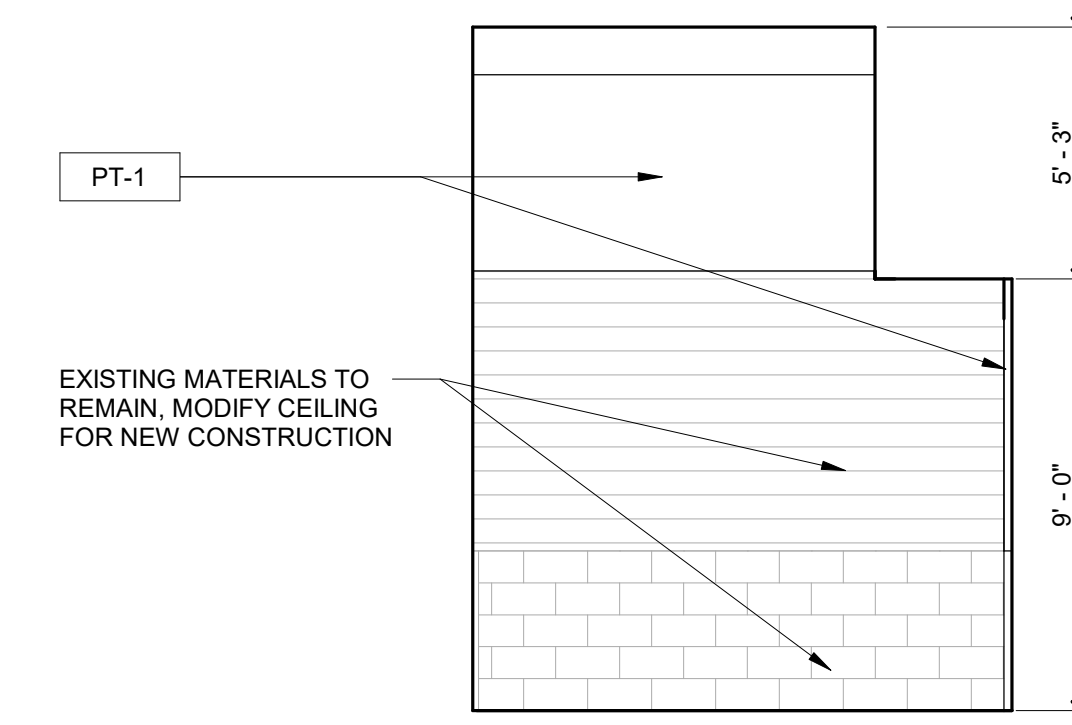
SIMULATOR ROOM A101 - EAST
3/A8.01 SCALE: 1/4" = 1'-0"



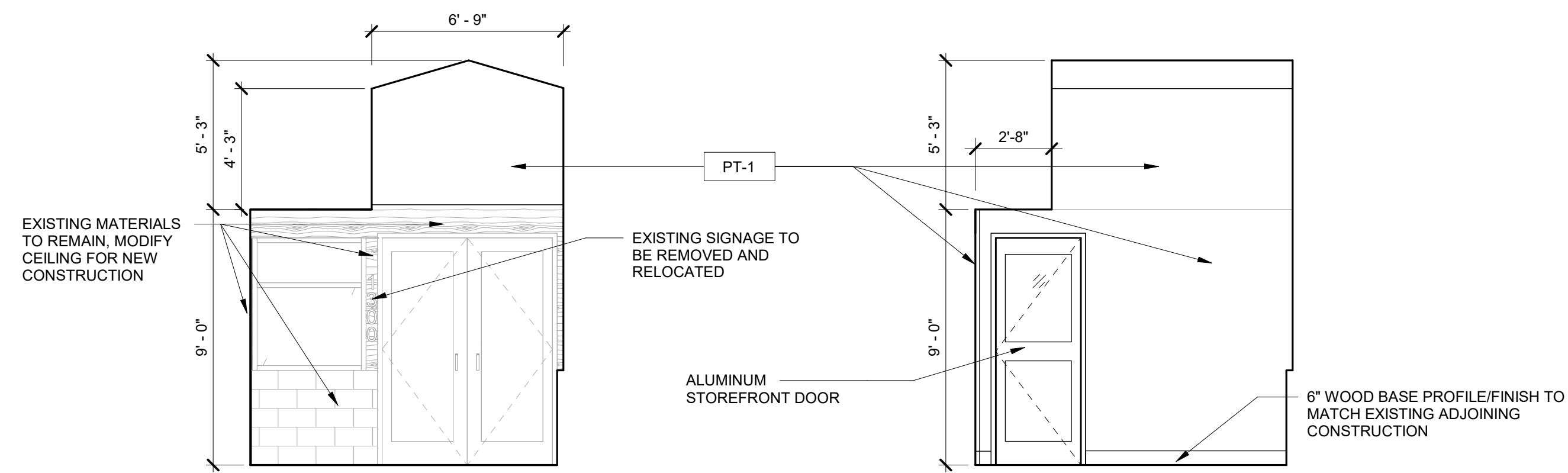
SIMULATOR ROOM A101 - WEST
6/A8.01 SCALE: 1/4" = 1'-0"



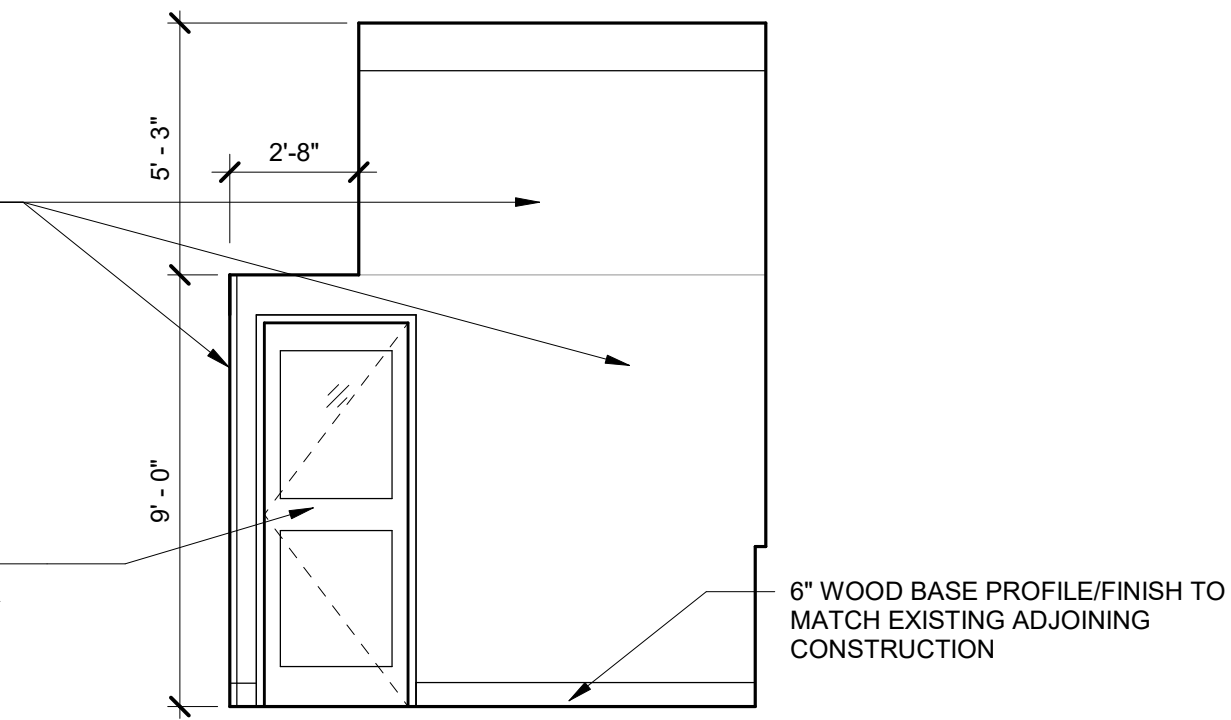
SIMULATOR ROOM A101 - EAST
8/A8.01 SCALE: 1/4" = 1'-0"



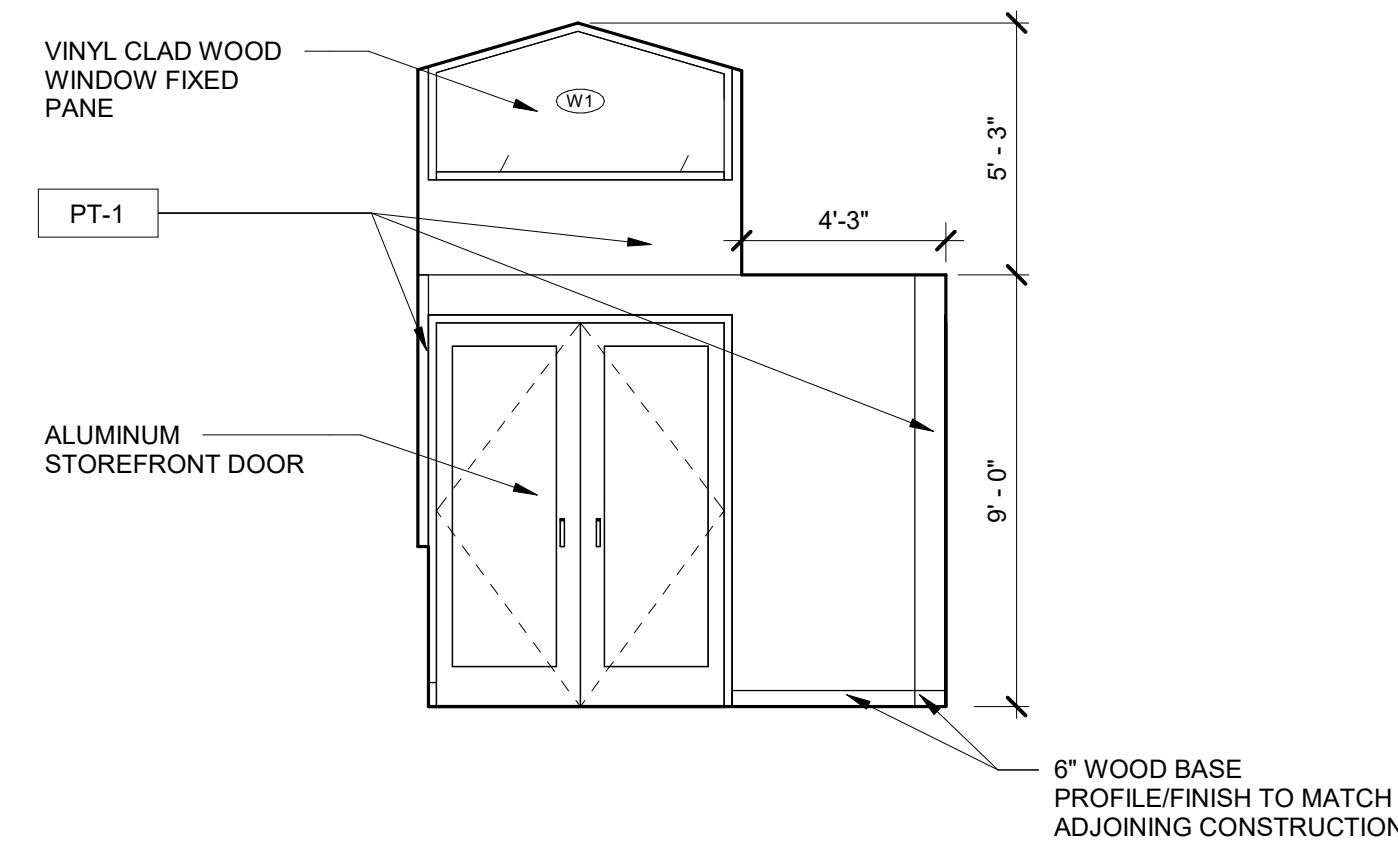
VESTIBULE A100 - EAST
10/A8.01 SCALE: 1/4" = 1'-0"



VESTIBULE A100 - NORTH
11/A8.01 SCALE: 1/4" = 1'-0"



VESTIBULE A100 - WEST
12/A8.01 SCALE: 1/4" = 1'-0"



VESTIBULE A100 - SOUTH
13/A8.01 SCALE: 1/4" = 1'-0"

INTERIOR GENERAL NOTES:

1. -

ISSUED FOR BID	05/12/26
NO.	REVISION
	DATE



WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107 COPYRIGHT © 2026

ITB - 4650

PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

MIDLAND, MICHIGAN

SHEET TITLE
INTERIOR ELEVATIONS

PROJECT NUMBER 2025104	SHEET NUMBER A8.01
PROJECT DATE 2026	
CHECKED BY Checker	

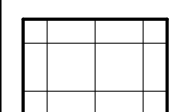

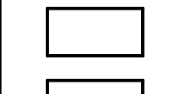

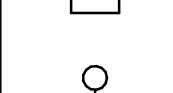
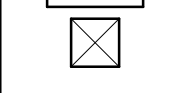
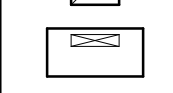
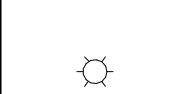
CEILING PLAN GENERAL NOTES:

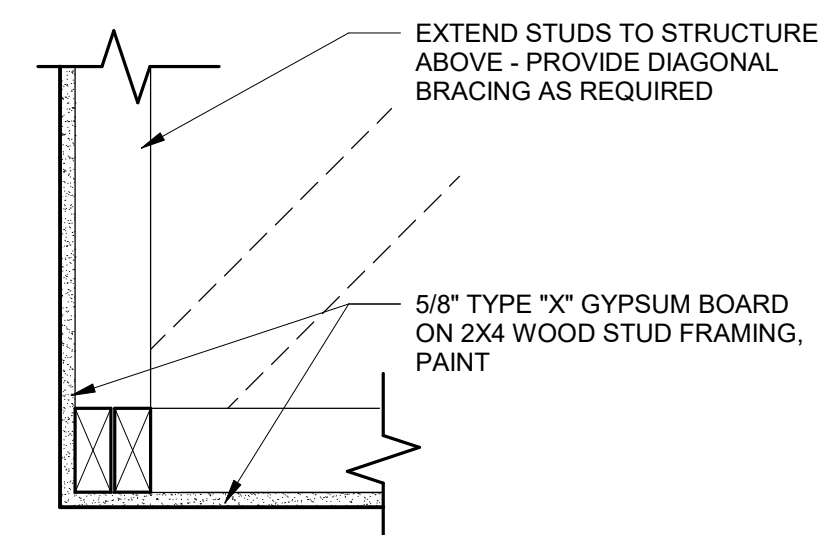
- GENERAL NOTE TEXT IS LOCATED HERE.

CEILING KEYNOTES

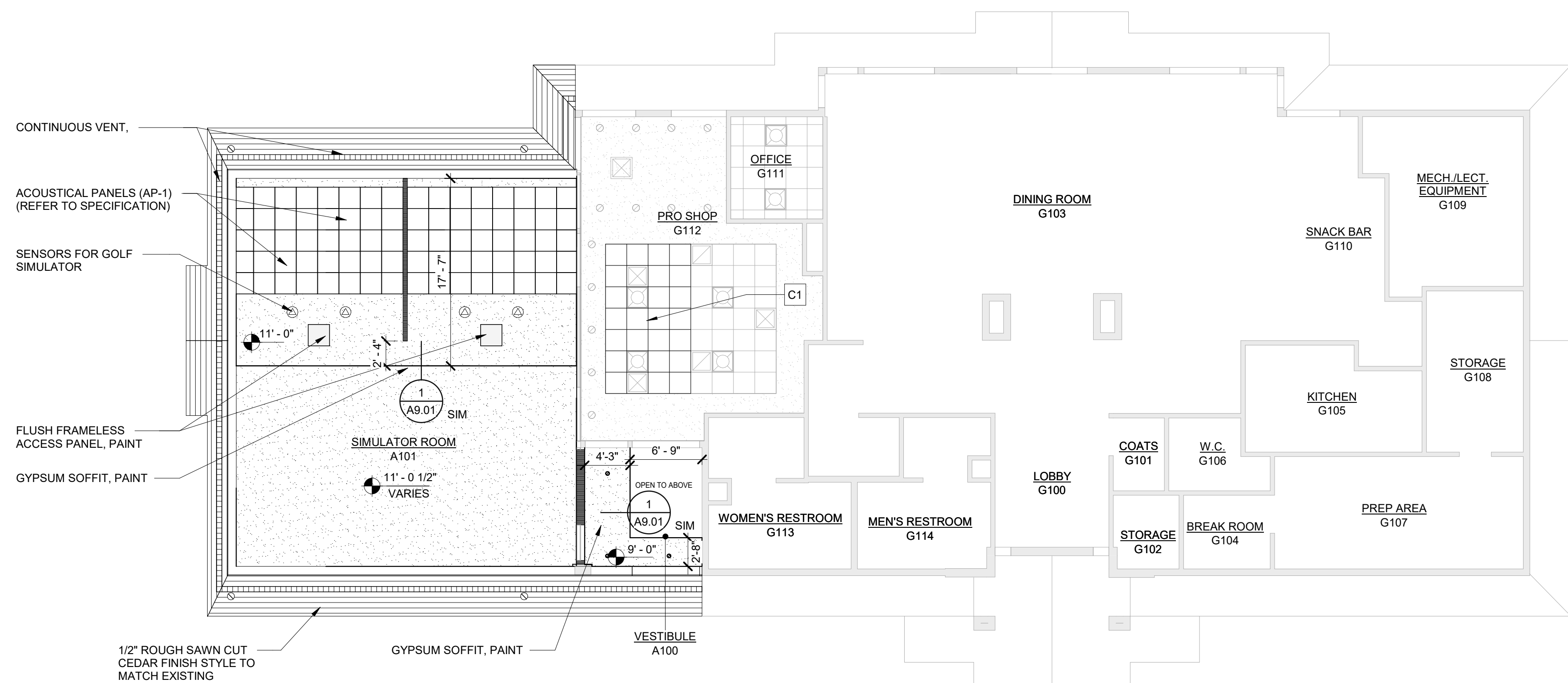
- REMOVE AND REINSTALL EXISTING CEILING CONSTRUCTION FOR NEW MECHANICAL

REFLECTED CEILING LEGEND:

-  2' x 2' SUSPENDED ACOUSTICAL TILE
-  GYPSUM BOARD CEILING; PAINT (PT-4)
-  CHAIN HUNG OR RECESSED LIGHT FIXTURES. REFER TO ELECTRICAL DRAWINGS.
-  WALL-MOUNTED LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
-  SUPPLY AIR GIRLLE. REFER TO MECHANICAL DRAWINGS.
-  RETURN AIR GIRLLE. REFER TO MECHANICAL DRAWINGS.
-  CEILING SUSPENDED CABINET HEATER EXIT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
-  FIRE ALARM AND STROBE LIGHT. REFER TO ELECTRICAL DRAWINGS.



1
A9.01 **SOFFIT DETAIL**
SCALE: 1/2" = 1'-0"



 **FIRST FLOOR REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"

ISSUED FOR BID	05/12/26
NO.	REVISION
	DATE



WTA ARCHITECTS

100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107 COPYRIGHT © 2026

ITB - 4650

PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

MIDLAND, MICHIGAN

SHEET TITLE
FIRST FLOOR MASTER REFLECTED CEILING PLAN

PROJECT NUMBER 2025104	SHEET NUMBER A9.01
PROJECT DATE 2026	
CHECKED BY Checker	

STRUCTURAL GENERAL NOTES

GENERAL

- THIS BUILDING HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, 2021 EDITION.
- THE OWNER WILL EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE MICHIGAN BUILDING CODE, EXCEPT AS NOTED BELOW. SPECIAL INSPECTIONS WILL BE PERFORMED FOR THE FOLLOWING:
 - SOILS.
 - CONCRETE.
 - MASONRY.
 - MASONRY SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH TMS 402 & TMS 602 AND SHALL BE LEVEL B QUALITY ASSURANCE.
 - STEEL
 - STEEL SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH AISI 360.
 - WOOD.
- WHEN "PROFESSIONAL ENGINEER" IS REFERRED TO IN THE FOLLOWING NOTES, IT DENOTES A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN, QUALIFIED TO PERFORM THE WORK.

- THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS, THE OWNERS REQUIREMENTS FOR ACCESS TO THE SITE AND CONTINUED OPERATIONS DURING CONSTRUCTION.

- THE PLAN, DETAIL, DIMENSIONS & ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM AVAILABLE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH DIMENSIONS, ELEVATIONS & DETAILS AS NECESSARY AND MAKE APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL.

- BEFORE PLACING CONCRETE REINFORCING, STRUCTURAL STEEL, AND WOOD TRUSS SHOP DRAWINGS PRIOR TO FABRICATION, THE CONTRACTOR SHALL ALSO SUBMIT MATERIAL REQUIREMENTS AND CONCRETE MIX DESIGNS. ALLOW (2) WEEKS FOR ENGINEER REVIEW.
- THE STRUCTURE SHALL BE CONSIDERED TO BE IN AN UNSTABLE CONDITION UNTIL ALL FLOOR, WALL AND ROOF STRUCTURES ARE COMPLETED. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR STABILITY AND TO RESIST LATERAL LOADS DURING ERECTION.

- ALL NON LOAD BEARING WALLS, EXCEPT INDICATED SHEAR WALLS, SHALL BE CONSTRUCTED TO ALLOW FOR VERTICAL DEFLECTION OF THE STRUCTURE ABOVE.

DIVISION 2 - DEMOLITION/SHORING

- CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING WHERE REQUIRED DURING CONSTRUCTION. SHORING SHALL BE DESIGNED & DETAILED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER. SHORING PROCEDURES, DESIGNS AND DETAILS SHALL BE SUBMITTED FOR REVIEW PRIOR TO COMMENCEMENT OF WORK, ALLOW (2) WEEKS FOR ENGINEER TO REVIEW.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ERECTION PROCEDURE AND SEQUENCING AND TO SUBMIT WRITTEN PROCEDURES TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS DURING ERECTION.
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION. IF CONDITIONS EXIST THAT ARE DIFFERENT FROM WHAT IS INDICATED ON THE DRAWINGS, NOTIFY ARCHITECT FOR DIRECTION BEFORE PROCEEDING.
- DUE CARE MUST BE TAKEN NOT TO UNDERMINE OR DISTURB EXISTING SOIL AND FOUNDATIONS WHEN EXCAVATING ADJACENT TO EXISTING FOUNDATIONS. FIELD VERIFY THE DEPTH AND WIDTH OF ANY EXISTING FOOTINGS & NOTIFY ARCHITECT OF ANY INTERFERENCES WITH NEW WORK.

DIVISION 3 - CONCRETE

- THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING, FABRICATION AND CONSTRUCTION OF ALL REINFORCED CONCRETE:
 - AMERICAN CONCRETE INSTITUTE (ACI) ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
 - ACI 315, DETAILS & DETAILING OF CONCRETE REINFORCEMENT.
- REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING ASTM MATERIAL SPECIFICATIONS.
 - DEFORMED BAR REINFORCING: ASTM A615 GRADE 60.
 - WELDED WIRE REINFORCEMENT: A1064 (FLAT SHEETS ONLY).
- ALL EXTERIOR CONCRETE (INCLUDING FOUNDATION WALLS, PIERS & FOOTINGS) SHALL BE AS FOLLOWS:
 - MINIMUM 28-DAY COMPRESSIVE STRENGTH (f_c) = 4500 PSI.
 - SLUMP = 3" TO 5"
 - WATER/CEMENTITIOUS RATIO = 0.45.
 - AIR ENTRAINMENT = 6% ± 1%.
 - EXPOSURE CLASSES = F3, S0, W1, & C2.
- ALL INTERIOR CONCRETE SHALL BE AS FOLLOWS:
 - MINIMUM 28-DAY COMPRESSIVE STRENGTH (f_c) = 4000 PSI.
 - SLUMP = 3" TO 5"
 - WATER/CEMENTITIOUS RATIO = 0.50.
 - EXPOSURE CLASSES = F0, S0, W1, & C1.
- SPLICES FOR DEFORMED BARS SHALL BE CLASS B WITH APPLICABLE INCREASES FOR BAR SPACING, COVER, TOP BAR EFFECT ETC. PER ACI 318.
- BEFORE PLACING CONCRETE REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PIPE SLEEVES, EMBEDDED ITEMS, OPENINGS, EQUIPMENT PADS, ELECTRICAL CONDUITS, RECESSES, DRAINS, ETC. ALL OPENINGS FOR PIPE, CONDUITS, ETC. SHALL BE SLEEVED. MINIMUM SLEEVE SPACING SHALL BE 3 SLEEVE DIAMETERS.
- SUGGESTED CONSTRUCTION AND CONTROL JOINT LOCATIONS ARE INDICATED ON THE DRAWINGS. THE CONTRACTOR MAY DEVIATE FROM SUGGESTED JOINT LOCATIONS WITH PRIOR APPROVAL OF THE ARCHITECT.
- CONCRETE CONTROL JOINTS SHALL BE CUT AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT DISLODMENT OF AGGREGATES. SAW A CONTINUOUS SLOT TO A DEPTH OF 1/4 THE THICKNESS OF THE SLAB BUT NOT LESS THAN 1". COMPLETE SAWING WITHIN 12 HOURS AFTER PLACEMENT.
- PROVIDE A RECESS IN THE TOP OF FOUNDATION WALLS AT DOOR OPENINGS FOR SUPPORT OF THICKENED FLOOR SLABS AND TO RECEIVE DOOR JAMBS. DEPTH OF RECESS TO BE 2" GREATER THAN THICKNESS OF THE FLOOR SLABS, UNLESS NOTED OTHERWISE.
- PROVIDE BENT CORNER BARS IN ALL WALLS AND FOOTINGS OF THE SAME SIZE AND NUMBER AS THE CONTINUOUS REINFORCEMENT.
- CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY. A SET OF (3) CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED FOR COMPRESSION STRENGTH AT 7 AND 28 DAYS OR EVERY 50 CUBIC YARDS OF CONCRETE CAST (MINIMUM OF (1) SET PER DAY OF CASTING). ALSO SLUMP AND UNIT WEIGHT TESTS SHALL BE PERFORMED EVERY OTHER TRUCK LOAD. CONTRACTOR MADE CONCRETE TEST CYLINDERS ARE NOT ACCEPTABLE.

DIVISION 4 - MASONRY

- THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING AND CONSTRUCTION OF ALL MASONRY:
 - THE MASONRY SOCIETY (TMS) TMS 402, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
 - TMS 602, SPECIFICATIONS FOR MASONRY STRUCTURES.
- ALL MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF $F_m = 2000$ PSI.
- ALL MORTAR SHALL BE TYPE S, PROPORTIONED BY VOLUME ACCORDING TO ASTM C270.
- ALL GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI AND SHALL BE PROPORTIONED BY VOLUME ACCORDING TO ASTM C476.
- ALL CONCRETE MASONRY UNITS SHALL BE MEDIUM OR HEAVY WEIGHT ASTM C90, GRADE N, UNITS UNLESS NOTED OTHERWISE. UNITS SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2900 PSI.
- ALL MASONRY WALLS SHALL HAVE HORIZONTAL JOINT REINFORCEMENT (9 GA. HOT DIPPED GALVANIZED) AT 16" O.C. PROVIDE PREFABRICATED CORNER PIECES AT ALL CORNERS AND INTERSECTIONS OF WALLS.
- ALL DEFORMED BAR REINFORCING SHALL BE ASTM A615, GRADE 60. AT LOCATIONS WHERE REINFORCING IS TO BE WELDED, THE DEFORMED BAR REINFORCING SHALL BE ASTM A706, GRADE 60.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY WALL BRACING ADEQUATE TO RESIST LATERAL LOADS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF WALL CONTROL JOINTS AND EXPANSION JOINTS.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR TYPE, SIZE, LOCATION AND ATTACHMENT REQUIREMENTS FOR MASONRY VENEER AND OTHER CLADDING.

DIVISION 6 - WOOD FRAMING

- THE LATEST REVISION OF THE FOLLOWING CODES & STANDARDS GOVERN THE DESIGN, MANUFACTURING AND CONSTRUCTION OF WOOD FRAMING:
 - AMERICAN WOOD COUNCIL (AWC) NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION, ANSI/AWC NDS.
 - IBC CHAPTER 20, WOOD.
 - AWC WCD1, DETAILS FOR CONVENTIONAL WOOD FRAMED CONSTRUCTION.
 - AMERICAN PLYWOOD ASSOCIATION (APA) PANEL DESIGN SPECIFICATION.
- WOOD FRAMING SIZES, FIRESTOPS, ANCHORAGE, AND CONNECTORS NOT SHOWN ON THE DOCUMENTS SHALL BE PER THE MINIMUM REQUIREMENTS IDENTIFIED IN IBC CHAPTER 23, WOOD.
- ROOF SHEATHING SHALL BE 5/8" THICK, APA RATED SHEATHING, EXPOSURE 1, PANEL INDEX 32/16 AND STAMPED WITH DFPA GRADE-TRADEMARK.
 - ROOF SHEATHING PANELS SHALL BE NAILED TO SUPPORTS WITH 8d COMMON NAILS.
 - ROOF SHEATHING NAIL SPACING SHALL BE AS FOLLOWS:
 - GABLE OVERHANGS AND ALL SHEATHING WITHIN 4 FEET OF THE GABLE WALL SHALL HAVE ALL PANEL EDGES NAILED AT 4" O.C. AND INTERMEDIATE SUPPORTS NAILED AT 6" O.C.
 - STANDARD EAIVE OVERHANG AND ALL SHEATHING WITHIN 4 FEET OF THE SUPPORTING WALL SHALL HAVE ALL PANEL EDGES NAILED AT 6" O.C. AND INTERMEDIATE SUPPORTS NAILED AT 6" O.C.
 - ALL SHEATHING WITHIN 4 FEET OF THE RIDGE SHALL HAVE ALL PANEL EDGES NAILED AT 6" O.C. AND INTERMEDIATE SUPPORTS NAILED AT 6" O.C.
 - THE REMAINDER OF THE ROOF SHALL HAVE ALL PANELS EDGES NAILED AT 6" O.C. AND INTERMEDIATE SUPPORTS NAILED AT 12" O.C.
- WALL SHEATHING SHALL BE 5/8" THICK, APA RATED SHEATHING, EXPOSURE 1, PANEL INDEX 32/16 AND STAMPED WITH DFPA GRADE-TRADEMARK.
 - STANDARD WALL SHEATHING PANELS SHALL BE NAILED TO SUPPORTS WITH 10d COMMON NAILS.
 - NAIL SPACING SHALL BE 3" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.
- ALL STRUCTURAL LUMBER SHALL BE OF THE FOLLOWING MINIMUM GRADES AND ALLOWABLE STRESSES OR EQUIVALENT AS PER NDS. MOISTURE CONTENT IS TO BE 19% MAX.
 - STUDS HEM FIR STRUCTURAL GRADE NO. 2 OR BETTER
 - BEAMS 2"-4" THICK HEM FIR STRUCTURAL GRADE NO. 2 OR BETTER
 - POSTS SAME AS STUDS
 - PLATE STOCK SAME AS STUDS
- ALL ENGINEERED WOOD PRODUCTS SHALL BE MANUFACTURED BY TRUS JOIST A WEYERHAEUSER COMPANY (OR APPROVED EQUAL) AS FOLLOWS:
 - LAMINATED VERTICAL LUMBER (LVL), MINIMUM PROPERTIES:
 - E = 1,900,000 PSI
 - Fb = 2900 PSI
 - Fv = 285 PSI
 - PARALLEL STAND LUMBER (PSL), MINIMUM PROPERTIES:
 - E = 2,000,000 PSI
 - Fb = 2900 PSI
 - Fv = 290 PSI
- ALL LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED TESTING AGENCY.
- ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO WEATHER SHALL BE TREATED LUMBER.
- FRAMED OPENING: DOUBLE STUD FOR OPENINGS LESS THAN 4" WIDE, TRIPLE STUD FOR OPENINGS 4" WIDE OR MORE.
- THE NUMBER OF WALL STUDS AT BEARING POINTS OF 2X MEMBER BEAMS SHALL EXCEED THE NUMBER OF MEMBERS IN THE BEAM BY ONE. THE CENTERLINE OF THE BEAM SHALL BE THE CENTERLINE OF THE SUPPORTING WALL STUDS (UNLESS NOTED OTHERWISE ON PLAN). ALL MICRO-LAM BEAMS SHALL HAVE 3 STUDS (MINIMUM), CONTINUE THESE STUDS TO THE FOUNDATION WITH INTERMEDIATE SUPPORTS THROUGH FLOOR, BETWEEN LOWER WALL TOP PLATE AND UPPER WALL BOTTOM PLATE.
- ALL FLUSH BEAMS SHALL BE SUPPORTED BY APPROVED HANGER.
- WHERE NOTED ON DETAILS, CONTRACTOR SHALL PROVIDE CONNECTORS FOR WOOD CONSTRUCTION AS MANUFACTURED BY SIMPSON STRONG TIE CONNECTORS. CONTRACTOR SHALL VERIFY TYPE INDICATED ON DRAWINGS. ANY SUBSTITUTION SHALL BE APPROVED BY THE ENGINEER. WHERE A TYPE IS NOT INDICATED OR TO BE PROVIDED BY THE TRUSS MANUFACTURER, THE CONTRACTOR SHALL SUBMIT PROPOSED CONNECTOR FOR APPROVAL.
- ALL NAILS FOR NAILING OF STRUCTURAL LUMBER SHALL BE COMMON NAILS. ALL NAILING SHALL COMPLY WITH THE RECOMMENDED FASTENING SCHEDULE (MBC TABLE 2304.10.1) UNLESS NOTED OTHERWISE.
- ROOF FRAMING LAYOUTS ARE PROVIDED TO ILLUSTRATE CONDITIONS OF CONSTRUCTION AND DO NOT NECESSARILY INDICATE SPECIFIC QUANTITIES OF MATERIALS OR COMPONENTS REQUIRED FOR CONSTRUCTION.
- CONSTRUCTION BRACING SHALL BE PROVIDED BY THE CONTRACTOR TO MAINTAIN THE BUILDING PLUMB AND TRUE. THIS BRACING SHALL REMAIN UNTIL THE SPECIFIED SHEAR WALLS ARE TOTALLY INSTALLED.

DIVISION 6 - PREFABRICATED WOOD TRUSSES

- THE LATEST REVISION OF THE FOLLOWING CODES & STANDARDS GOVERN THE DESIGN, MANUFACTURING AND CONSTRUCTION OF PREFABRICATED WOOD TRUSSES:
 - AMERICAN WOOD COUNCIL (AWC) NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION, ANSI/AWC NDS.
 - IBC CHAPTER 23, WOOD.
 - AMERICAN NATIONAL STANDARD (ANSI) & TRUSS PLATE INSTITUTE (TPI) ANSI/TPI 1, NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.
 - BUILDING COMPONENT SAFETY INFORMATION (BCSI), BCSI-B1 GUIDE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF TRUSSES.
 - BCSI-B2 TRUSS INSTALLATION & TEMPORARY RESTRAINT/BRACING.
 - BCSI-B3 PERMANENT RESTRAINT/BRACING OF CHORDS & WEB MEMBERS.
- THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SUBMITTALS:
 - SHOP DRAWINGS SHOWING SIZES, DESIGN VALUES, LOADS, MATERIALS, PERMANENT & TEMPORARY BRACING AND DIMENSIONAL RELATIONSHIPS OF COMPONENTS, AND BEARING & ANCHOR DETAILS. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER.
 - DESIGN CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER.
- ALL ROOF TRUSSES SHALL BE DESIGNED FOR THE LOADS INDICATED ON THIS SHEET PLUS THE FOLLOWING:
 - ROOF TRUSSES WITHIN 5 FOOT OF THE END WALL: NET UPLIFT = 10 PSF.
 - REMAINING ROOF TRUSSES: NET UPLIFT = 5 PSF.
- THE EXTENT OF ROOF TRUSSES SHOWN ON THE PLANS IS FOR REFERENCE ONLY. THE FABRICATOR SHALL VERIFY ALL DIMENSIONS, TRUSS LAYOUT, CONFIGURATION, NUMBER OF EACH TYPE OF TRUSS REQUIRED, LOADING AND DETAILS.
- DEFLECTION OF TRUSSES SHALL BE LIMITED TO A MAXIMUM LIVE LOAD DEFLECTION OF SPAN/360 AND A MAXIMUM TOTAL LOAD DEFLECTION OF SPAN/240 (SPAN IS IN INCHES).
- AT ROOF TRUSS BEARING, AS A MINIMUM: INSTALL (1) SIMPSON H2.5T HURRICANE TIE AND (3) 16d COMMON TOE NAILS.
- ALL TEMPORARY BRACING IS THE RESPONSIBILITY OF AND IS TO BE DESIGNED BY THE TRUSS MANUFACTURER. AS A MINIMUM TRUSSES SHALL BE BRACED DURING ERECTION PER BCSI-B1 & BCSI-B2. THIS BRACING SHALL REMAIN AS PERMANENT BRACING.
- THE FABRICATOR SHALL CLEARLY INDICATE ON TRUSS DRAWINGS AND DIAGRAMS ALL REQUIRED PERMANENT BRACING REQUIRED TO BRACE ANY TRUSS CHORD OR WEB MEMBERS. SUCH BRACING MAY BE INCORPORATED WITH OTHER PERMANENT BRACING BY THE CONTRACTOR. ALL SUCH BRACING SHALL RUN TO AND TERMINATE AT BEARING WALLS. WHERE CONFIGURATION OF TRUSSES CHANGE, AFFECTING SUPPORT OF THIS BRACING, ADDITIONAL FRAMING FASTENED TO THE TRUSSES SHALL BE INSTALLED TO SUPPORT THE BRACING. BRACING IS TO BE DESIGNED PER BCSI-B3.
- THE BOTTOM CHORD OF WOOD TRUSSES SHALL BE DESIGNED AS UNBRACED FOR LENGTH EQUAL TO THE SPACING BETWEEN BOTTOM CHORD BRACES UNLESS SHEATHED WITH CONTINUOUS SHEATHING (PLYWOOD, OSB OR GYPSUM BOARD). BOTTOM CHORD BRACES SHALL BE SPACED AT 10'-0" MAXIMUM AND SHALL BE SUPPLIED BY THE TRUSS MANUFACTURER.
- THE TOP CHORD OF ROOF TRUSSES SHALL BE CONSIDERED THE BE CONTINUOUSLY BRACED BY THE ROOF DECKING.
- TRUSS BRACING SHOWN OR DESCRIBED SHALL BE A MINIMUM A 2X4 WITH (2) 16d NAILS IN EVERY TRUSS IT CROSSES.

DIVISION 31 - FOUNDATIONS/BACKFILL

- CONTRACTOR SHALL REVIEW A COPY OF THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
- FOUNDATIONS ARE DESIGNED FOR A MAXIMUM ALLOWABLE BEARING CAPACITY OF 3500 PSF. FOUNDATIONS SHALL BEAR ON NATURAL UNDISTURBED SOILS OR ON ENGINEERED FILL.
- THE OWNER WILL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO MONITOR THE FOUNDATION WORK AND DETERMINE THE QUALITY OF THE SOIL AT ALL FOOTING LOCATIONS. IF UNSUITABLE MATERIALS ARE ENCOUNTERED AT THE FOOTING LOCATIONS, THE UNSUITABLE SHALL BE REMOVED AND REPLACED OR THE FOOTINGS LOWERED AT THE DIRECTION OF THE ENGINEER.
- THE CONTRACTOR SHALL BE AWARE OF AND VERIFY LOCATION OF ALL UNDERGROUND UTILITIES, TANKS, ETC. DUE CARE SHALL BE EXERCISED DURING EXCAVATION SUCH THAT EXISTING UTILITIES ARE NOT DAMAGED.
- ALL EXCAVATED MATERIAL SHALL BE TRANSPORTED TO A DISPOSAL AREA DESIGNATED BY THE OWNER. ALL EXCAVATIONS SHALL CONFORM TO MI-OSHA REQUIREMENTS. ANY PERCHED GROUNDWATER ENTERING THE EXCAVATION SHALL BE PUMPED PRIOR TO PLACING CONCRETE.
- ALL BACKFILL MATERIALS SHALL CONFORM TO MDOT CLASS II MATERIAL. ALL BACKFILL SHALL BE PLACED IN 9" LOOSE LIFTS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR). FIELD DENSITY TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D-2922 OR D-1556 WITH A MINIMUM OF 1 TEST PER 1500 SQ FEET OF AREA PER 9" LIFT (MINIMUM OF (3) TEST PER LIFT).

DESIGN CRITERIA

MICHIGAN BUILDING CODE 2021 (ASCE 7-16) RISK CATEGORY II.

- ROOF DEAD LOADS**
- ASPHALT SHINGLES 4 PSF
 - 3/4" PLYWOOD SHEATHING 2 PSF
 - WOOD TRUSSES 4 PSF
 - CEILING 5/8" GYPSUM 3 PSF
 - MECHANICAL AND ELECTRICAL 4 PSF
 - MISCELLANEOUS 2 PSF
 - 22" CELLULOSE INSULATION 3 PSF
 - TOTAL 22 PSF**

- ROOF LIVE LOADS**
- MINIMUM LOAD 20 PSF

- SNOW LOADS**
- IMPORTANCE FACTOR $I_s = 1.0$
 - GROUND SNOW LOAD $P_g = 35$ PSF
 - SNOW EXPOSURE FACTOR $C_e = 1.0$
 - THERMAL FACTOR $C_t = 1.1$
 - FLAT USE SNOW $P_f = 27$ PSF (TYPICAL ROOF)
 - SNOW DRIFT PER ASCE 7

- WIND LOADS**
- BASIC WIND SPEED 106 MPH (3 SEC GUST)
 - EXPOSURE CATEGORY B
 - COMPONENTS AND CLADDING PER ASCE 7

- SEISMIC DESIGN DATA**
- SITE CLASS D
 - RESPONSE COEFFICIENTS $SD_s = 0.07$
 $SD_1 = 0.062$
 - SEISMIC DESIGN CATEGORY A

ABBREVIATIONS

@	AT
ADD'L	ADDITIONAL
B.C.	BOTTOM CHORD
B.O.	BOTTOM OF
B.O.F.	BOTTOM OF FOOTING
B.O.S.	BOTTOM OF STEEL
B.O.T.	BOTTOM OF TRUSS
B.S.	BOTH SIDES
BM	BEAM
BOTT	BOTTOM
C.L.	CENTER LINE
CJ	CONTROL JOINT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CSJ	CONSTRUCTION JOINT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DWG	DRAWING
EA	EACH
EQ	EQUAL
EX	EXISTING
F.S.	FAR SIDE
F.V.	FIELD VERIFY
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FDN	FOUNDATION
FT	FOOT
FTG	FOOTING
GA	GAGE
G.L.	GIRT LINE
H.P.	HIGH POINT
HORIZ	HORIZONTAL
K	KIPS
LP	LOW POINT
LL	LIVE LOAD
LN	LINE
MAX	MAXIMUM
MIN	MINIMUM
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
NO	NUMBER
O.C.	ON CENTER
PC	PIECE
PL	PLATE
PLCS	PLACES
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
SECT	SECTION
SIM	SIMILAR
SPA	SPACES
STD	STANDARD
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF STEEL
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W.P.	WORK POINT
W/	WITH
WWR	WELDED WIRE REINFORCEMENT

	ISSUED FOR BID	05/12/26
	FINAL OWNER REVIEW	04/30/26
NO.	REVISION	DATE

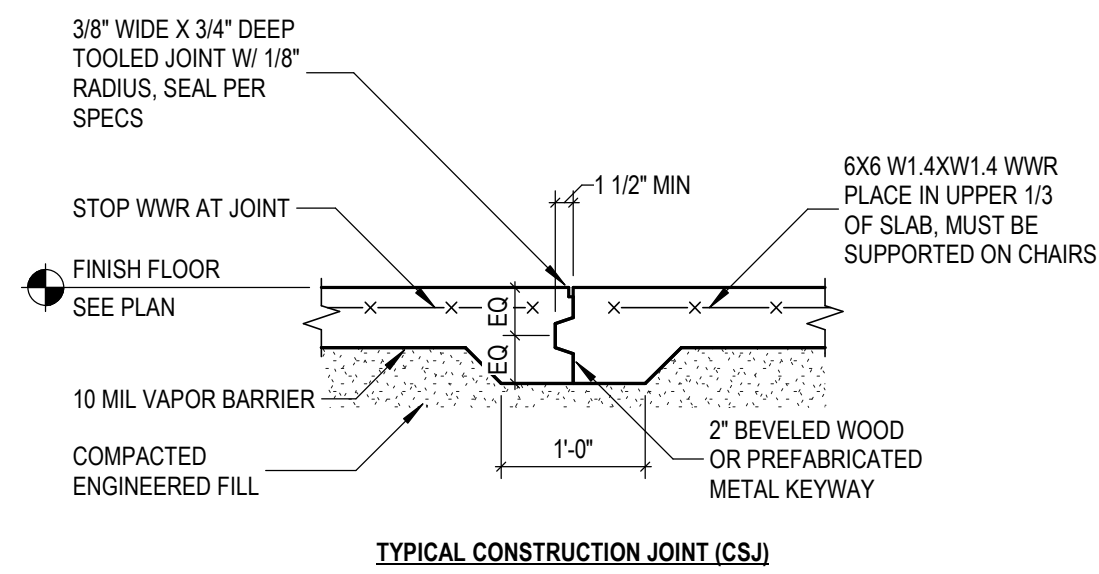


WTAARCH.COM
WTA ARCHITECTS
 100 S. Jefferson Ave., Suite 601
 Saginaw, Michigan 48607
 989 752 8107 COPYRIGHT ©

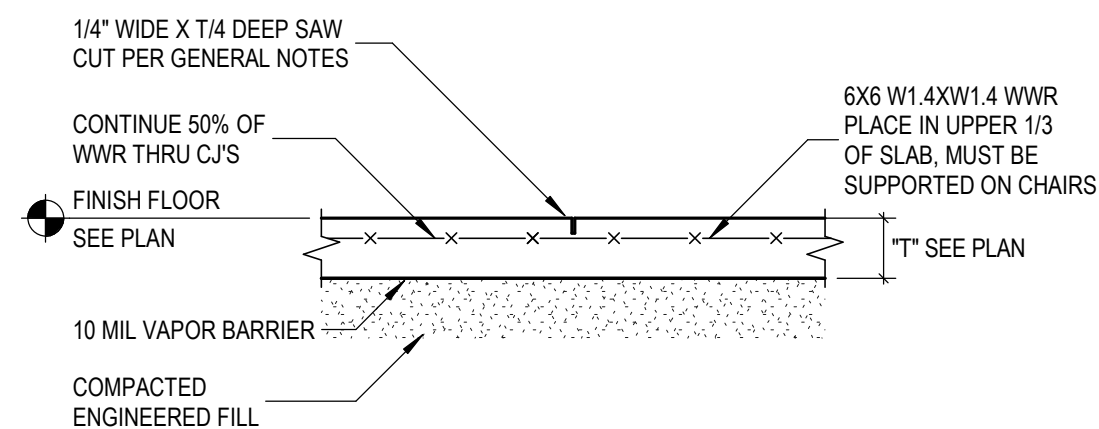
PROJECT TITLE
 ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE
 MIDLAND, MICHIGAN

SHEET TITLE
STRUCTURAL GENERAL NOTES

PROJECT NUMBER 25-0546-0295	SHEET NUMBER
PROJECT DATE 05/12/26	S0.0
CHECKED BY C. VASQUEZ	

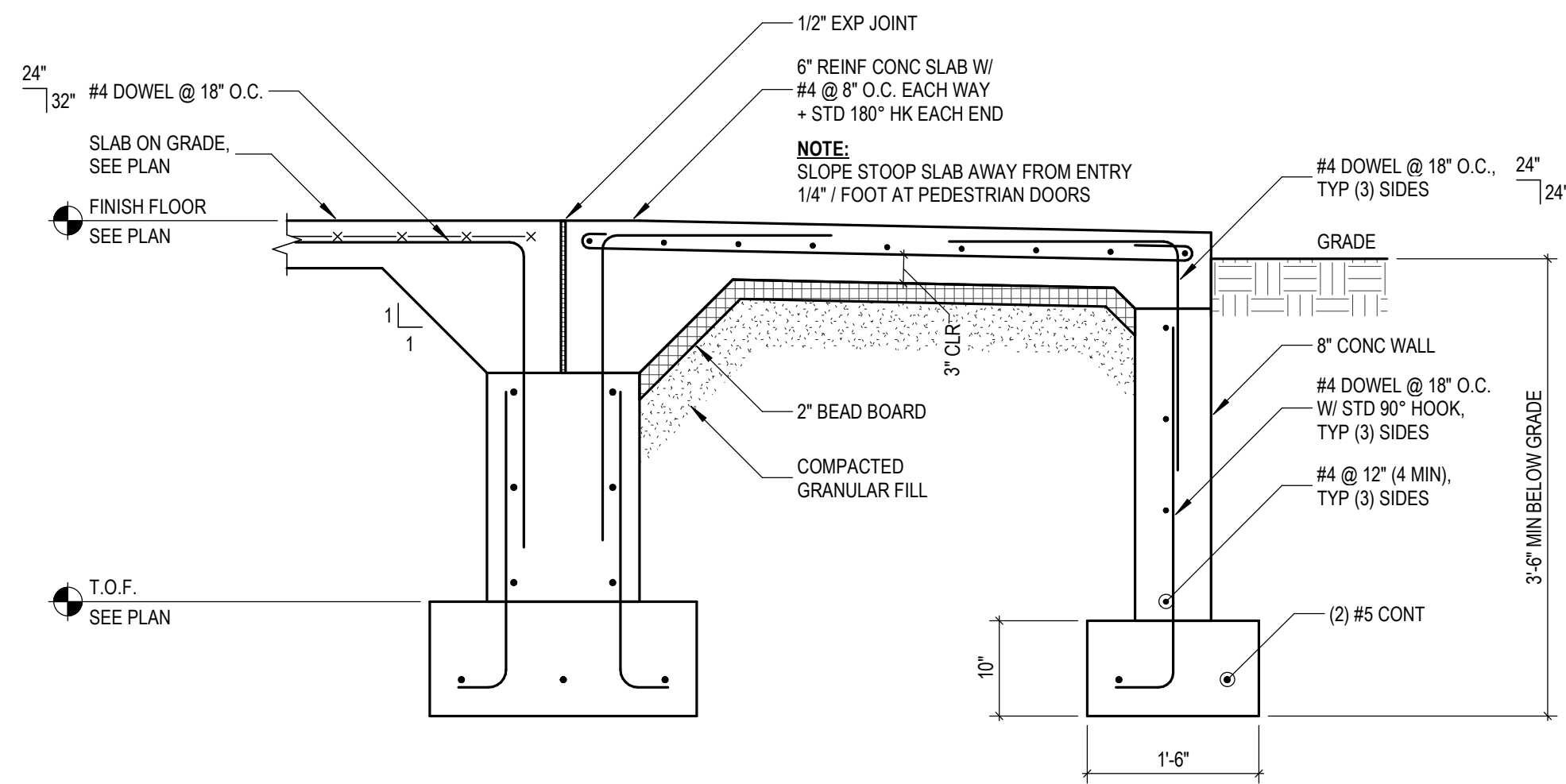


TYPICAL CONSTRUCTION JOINT (CJS)

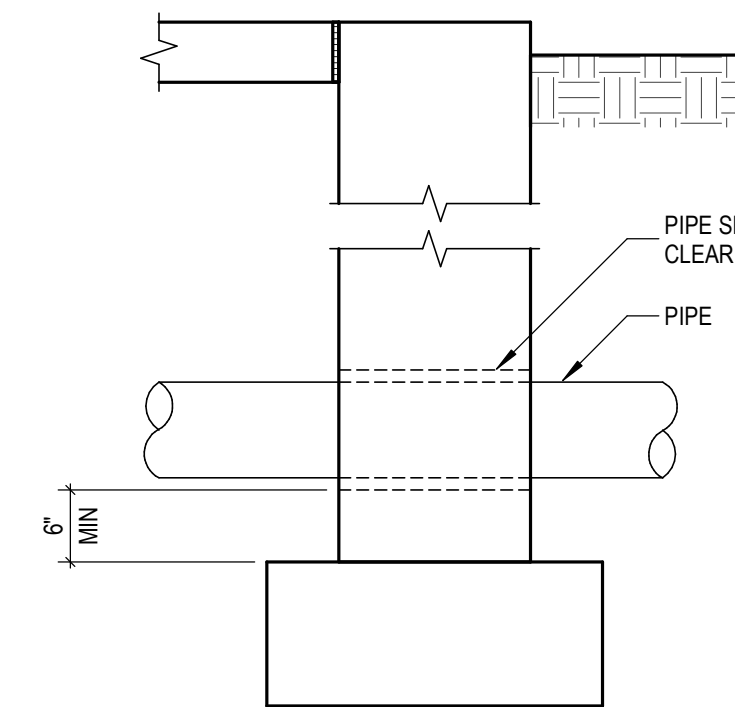


TYPICAL CONTROL JOINT (CJ)

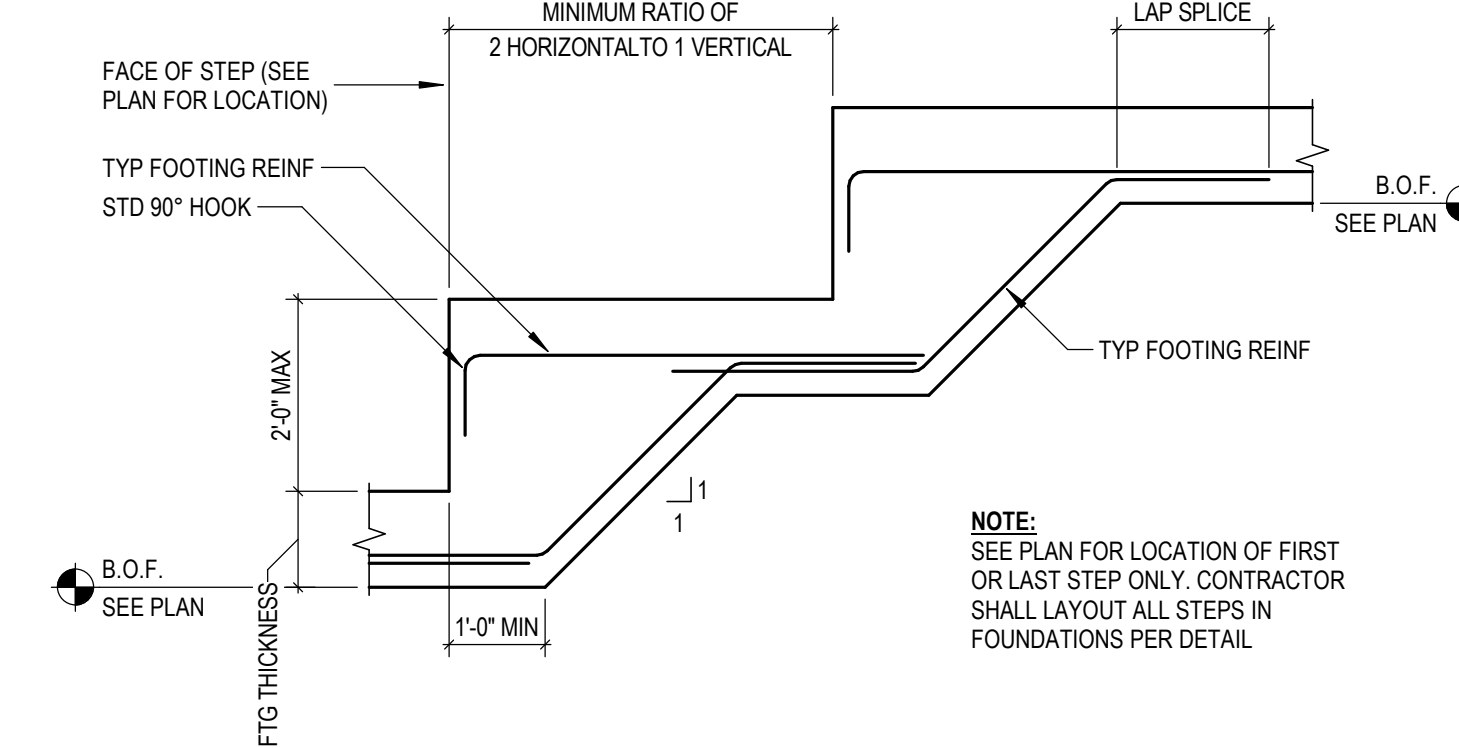
1 TYPICAL SLAB ON GRADE DETAILS
S5.0 NOT TO SCALE



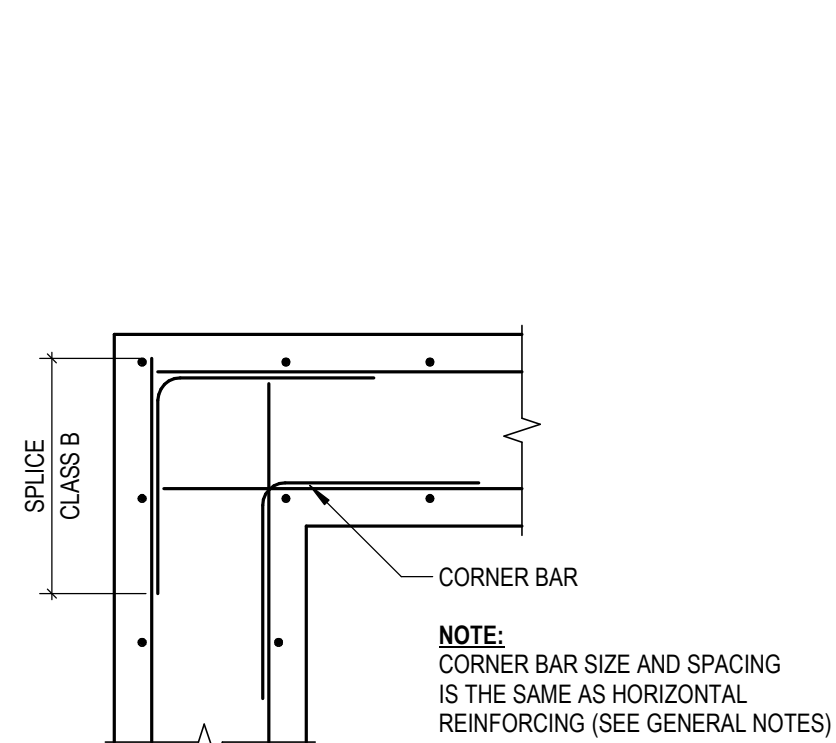
2 TYPICAL STOOP SECTION
S5.0 NOT TO SCALE



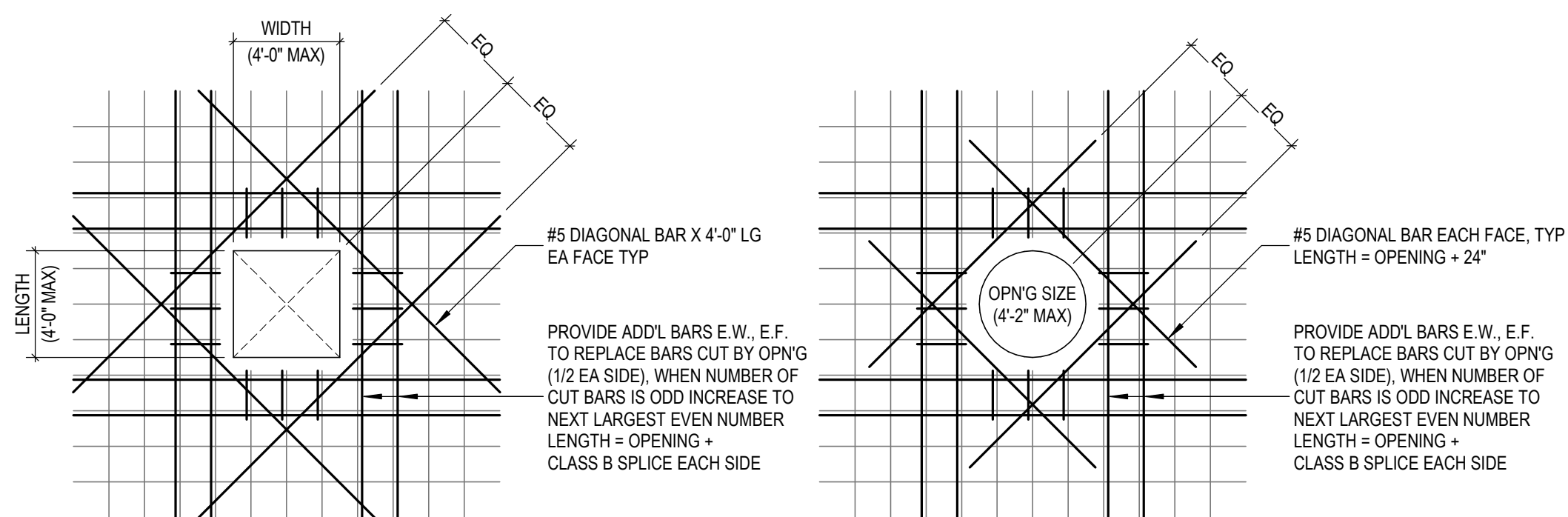
3 TYP FOUNDATION DETAIL AT UTILITY
S5.0 NOT TO SCALE



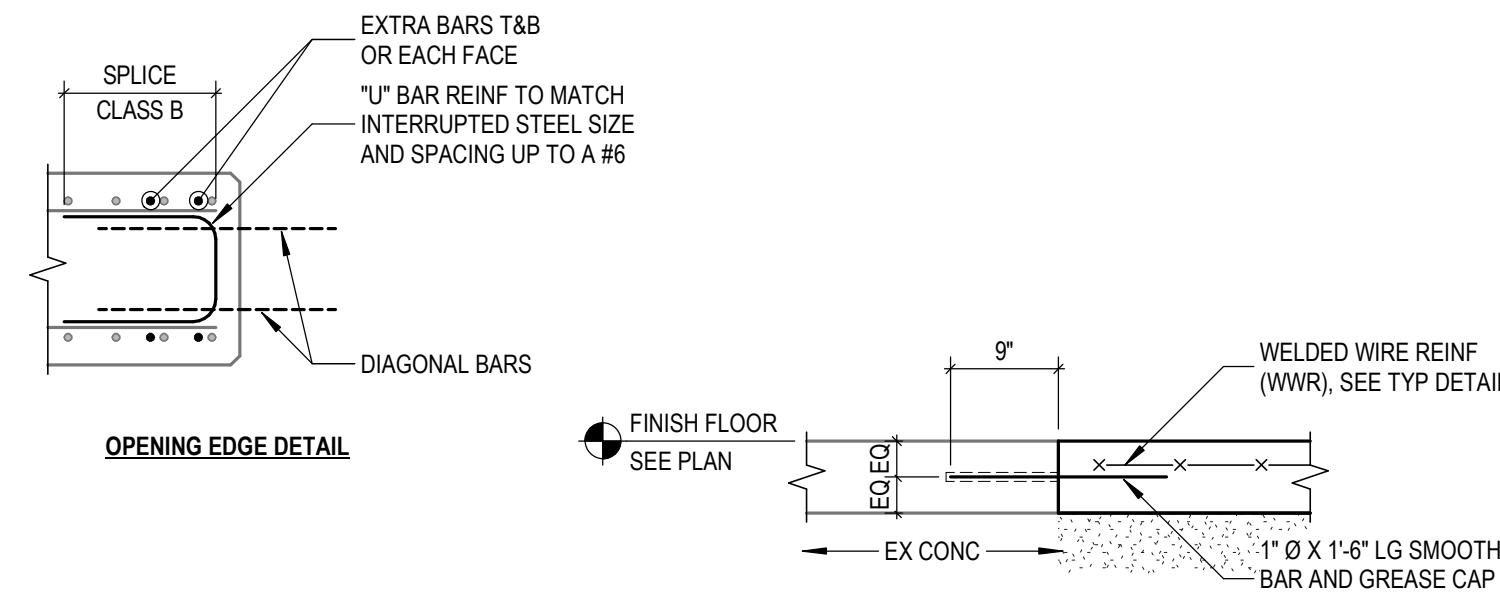
4 TYPICAL STEP FOOTING DETAIL
S5.0 NOT TO SCALE



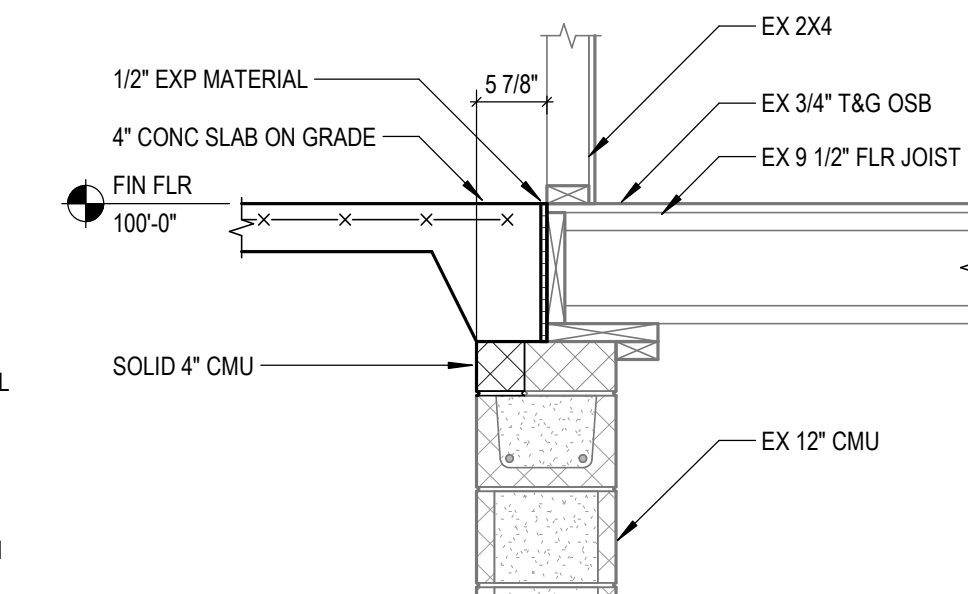
5 TYP WALL & FTG CORNER DETAIL
S5.0 NOT TO SCALE



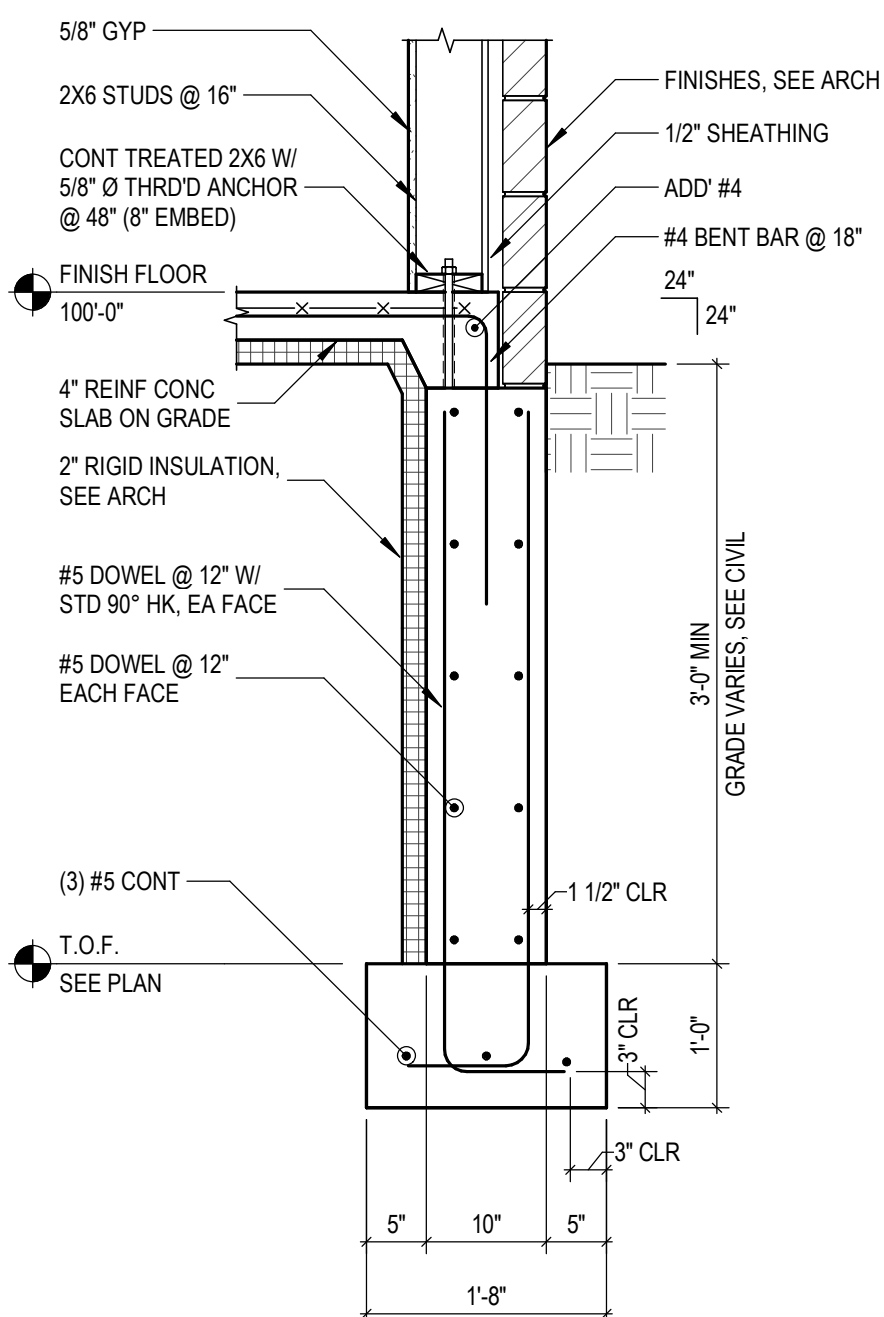
6 TYPICAL SLAB AND WALL OPENINGS
S5.0 NOT TO SCALE



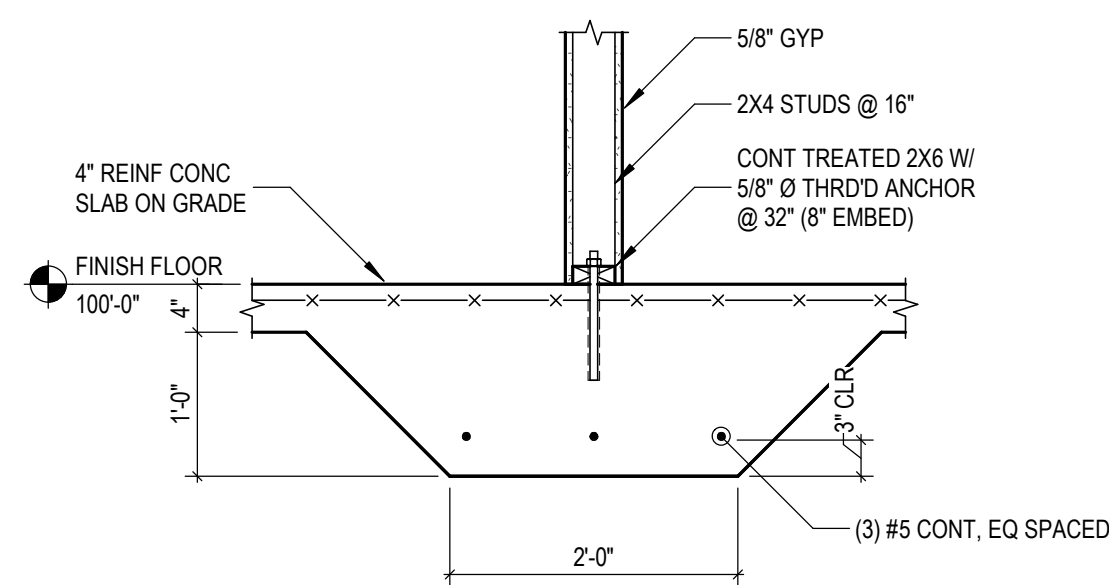
7 TYP SLAB ON GRADE REPLACEMENT
S5.0 NOT TO SCALE



8 DETAIL
S5.0 SCALE: 3/4\"/>



9 FOUNDATION WALL
S5.0 SCALE: 3/4\"/>



10 THICKENED SLAB DETAIL
S5.0 SCALE: 3/4\"/>

ISSUED FOR BID	05/12/26
FINAL OWNER REVIEW	04/30/26
NO.	REVISION DATE

WAK
WILLIAM A. KIBBE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS | SURVEYORS

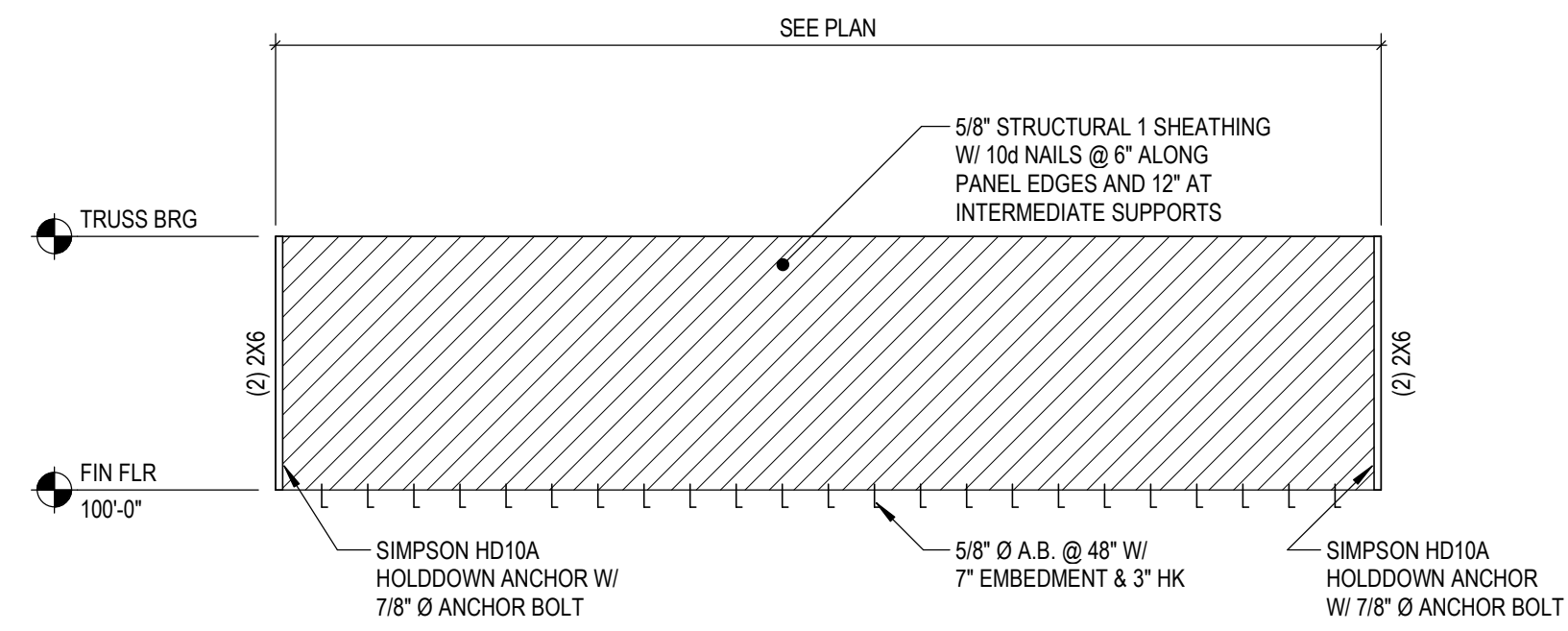
WTA ARCH. COM
WTA ARCHITECTS
100 S Jefferson Ave, Suite 601
Saginaw, Michigan 48607
989 752 8107
COPYRIGHT ©

PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE
MIDLAND, MICHIGAN

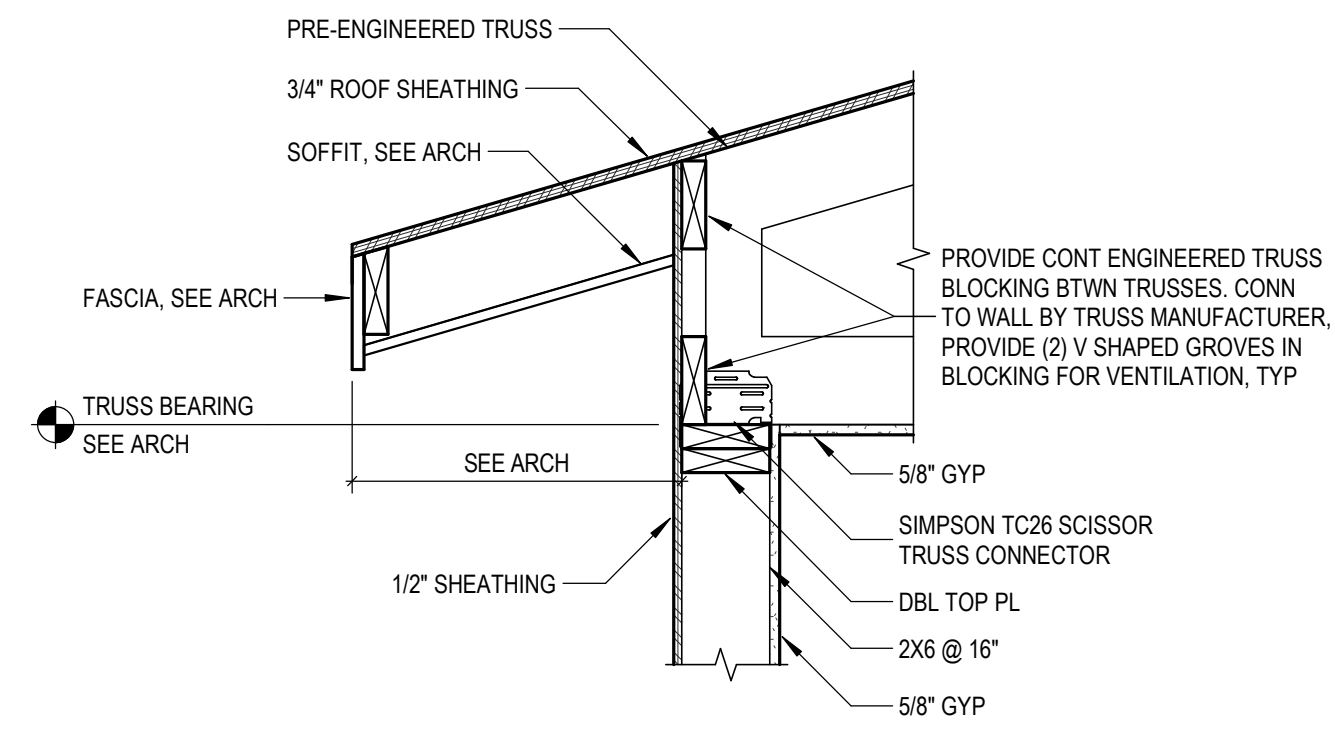
SHEET TITLE
FOUNDATION SECTIONS AND DETAILS

PROJECT NUMBER 25-0546-0295	SHEET NUMBER S5.0
PROJECT DATE 05/12/26	CHECKED BY C. VASQUEZ

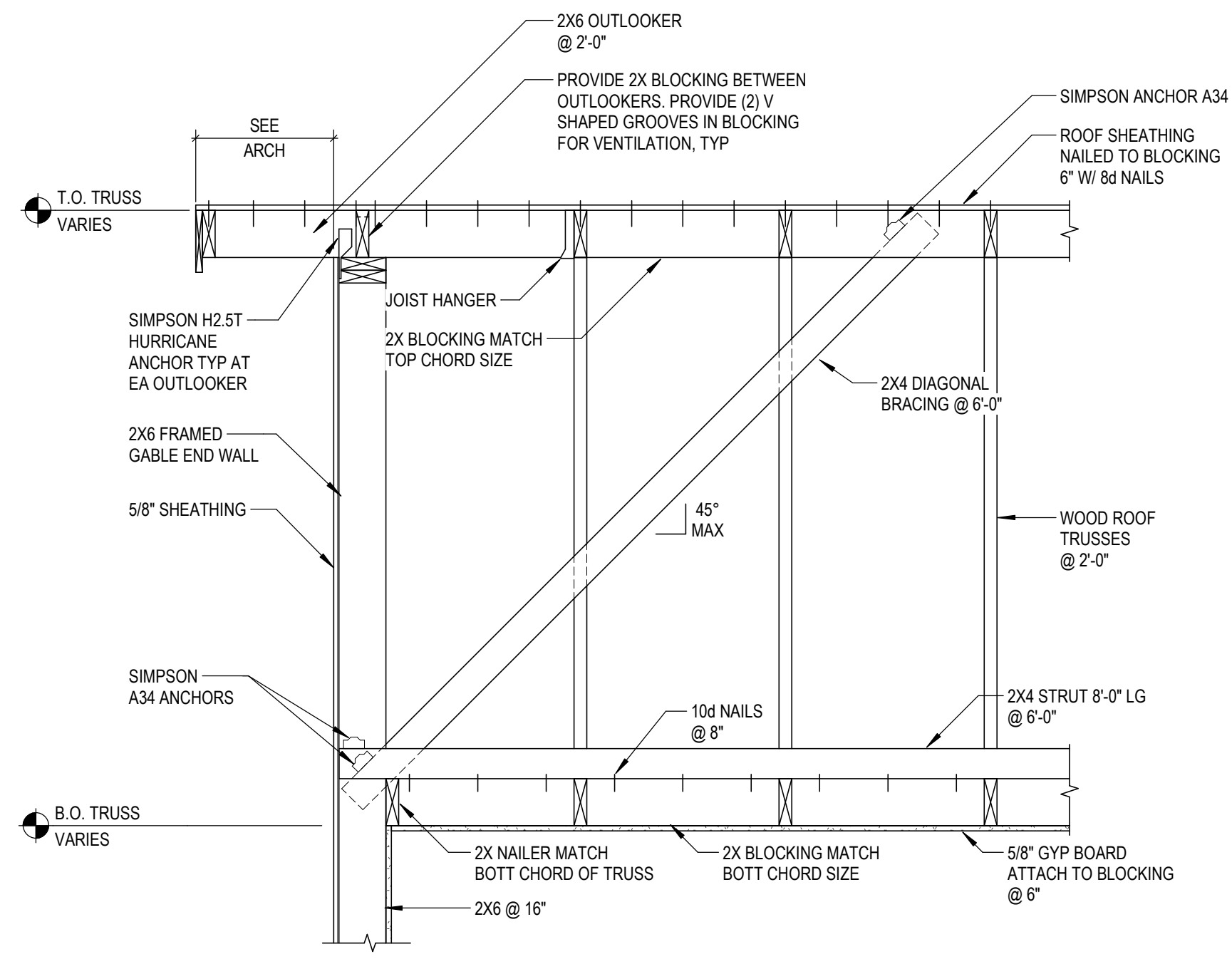
Author: 11/20/20 2:13:04 PM C:\Users\albert\Documents\2505460295_Currie West Clubhouse Expansion_SHEET_05_Drawing.rvt



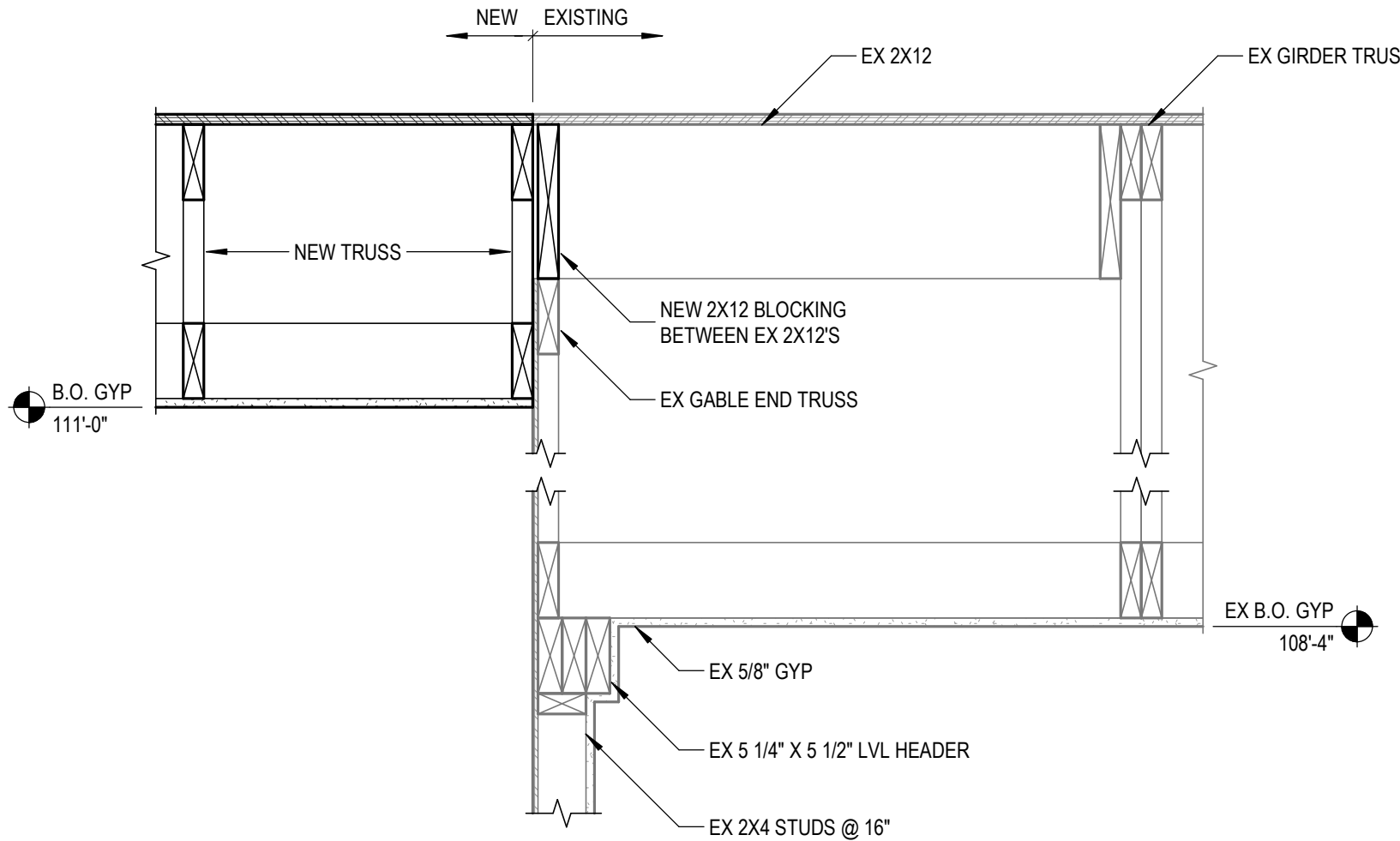
1 TYPICAL SHEAR WALL
S6.0 NOT TO SCALE



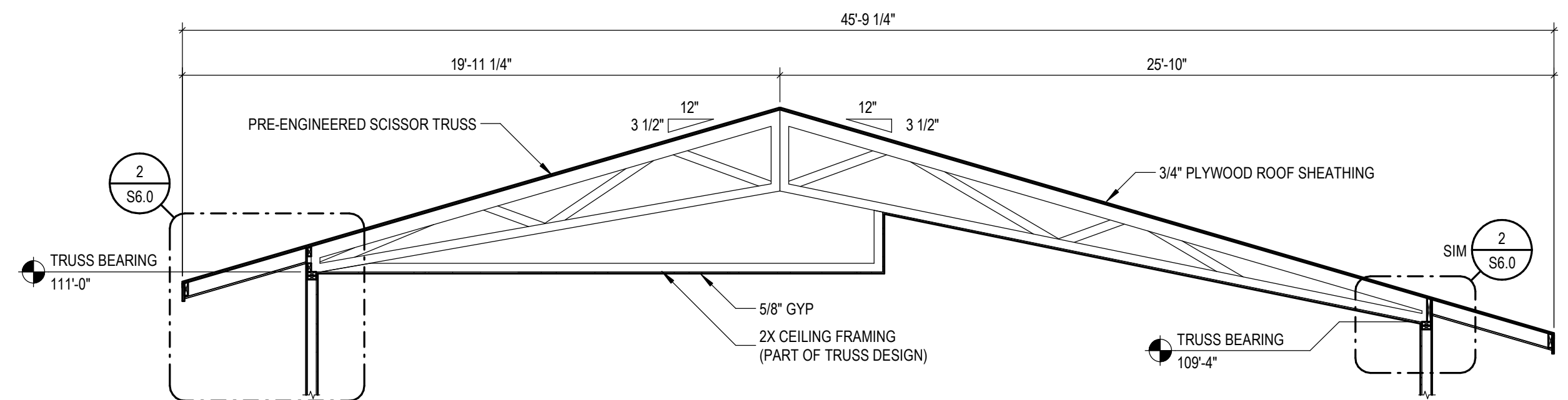
2 DETAIL
S6.0 NOT TO SCALE



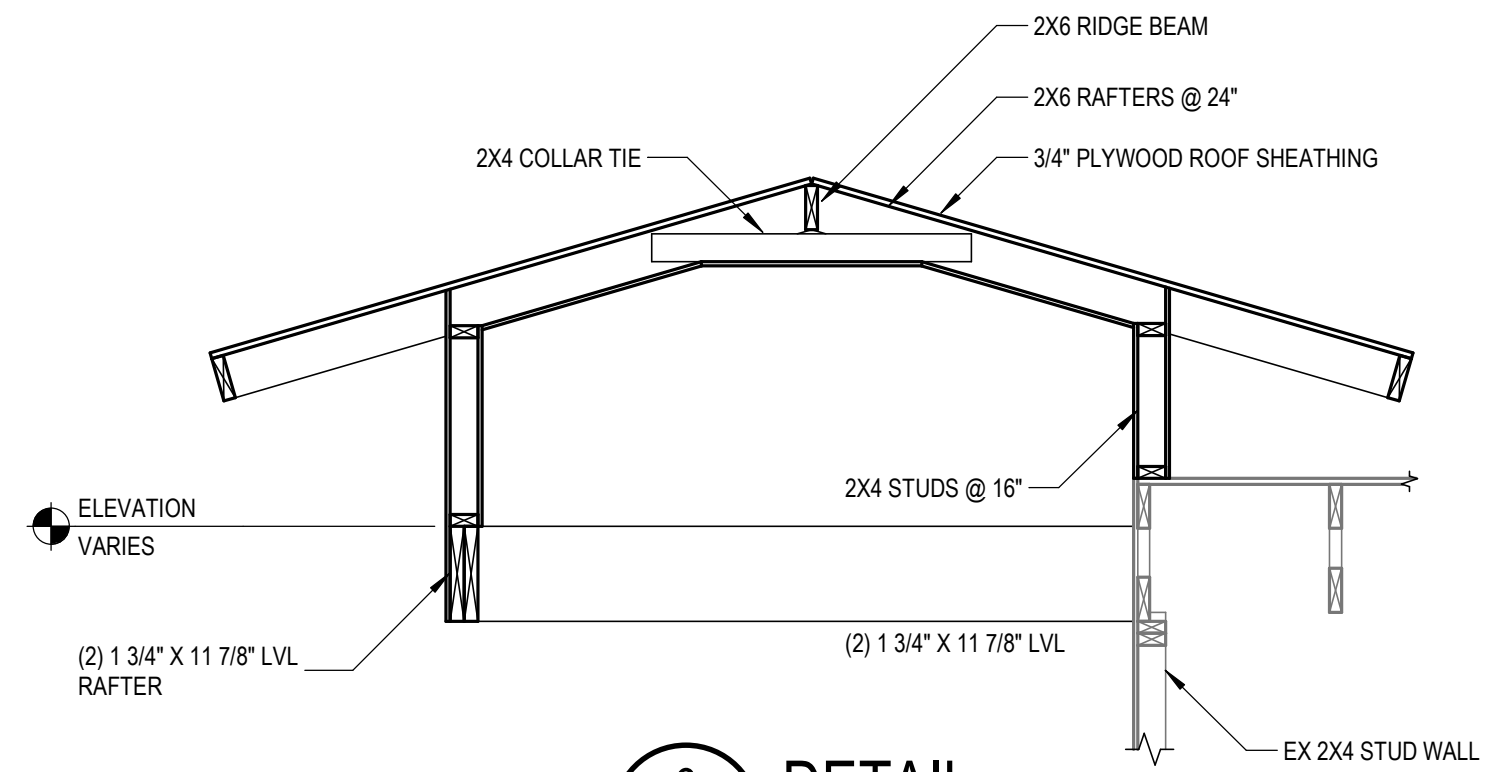
3 SECTION
S6.0 NOT TO SCALE



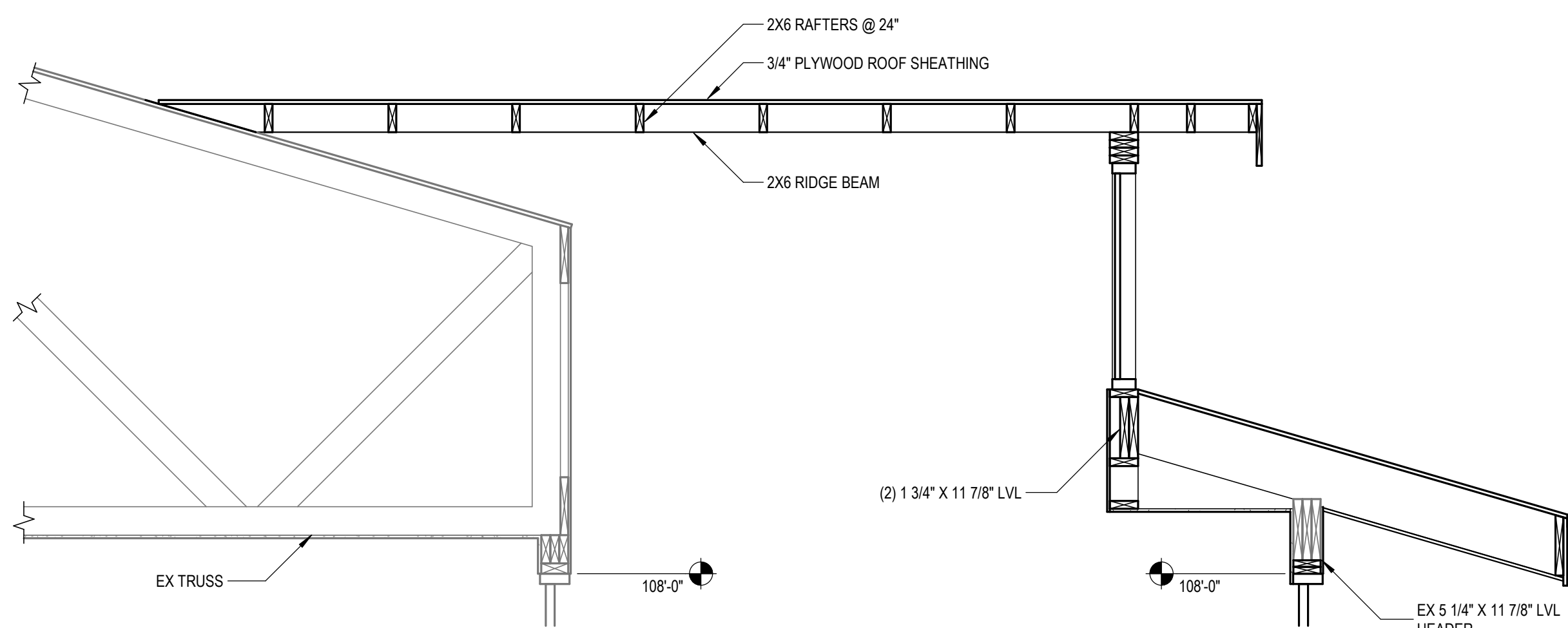
4 DETAIL
S6.0 SCALE: 1" = 1'-0"



5 DETAIL
S6.0 SCALE: 1/4" = 1'-0"



6 DETAIL
S6.0 SCALE: 1/2" = 1'-0"



7 DETAIL
S6.0 SCALE: 1/2" = 1'-0"

ISSUED FOR BID	05/12/26
FINAL OWNER REVIEW	04/30/26
NO.	REVISION DATE

WAK
WILLIAM A. KIBBE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS | SURVEYORS

WTA ARCHITECTS
100 S. Jefferson Ave., Suite 601
Saginaw, Michigan 48607
989 752 8107

PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE
MIDLAND, MICHIGAN

SHEET TITLE
FRAMING SECTIONS AND DETAILS

PROJECT NUMBER 25-0546-0295	SHEET NUMBER S6.0
PROJECT DATE 05/12/26	
CHECKED BY C. VASQUEZ	

ABBREVIATIONS

ACS	AUTOMATIC CONTROL SYSTEM	HTG	HEATING
A.F.F.	ABOVE FINISHED FLOOR	HTR	HEATER
AFMS	AIR FLOW MEASURING STATION	HV	HOSE VALVE
AG	AIR GAP FITTING	HVAC	HEATING, VENTILATION AND AIR CONDITIONING
AHU	AIR HANDLING UNIT	ID	INSIDE DIAMETER/ DIMENSION
ALT	ALTERNATE	IN	INCHES)
AP	ACCESS PANEL(S)	INSL	INSULATION
APD	AIR PRESSURE DROP	INV	INVERT
ARCH	ARCHITECT(URAL)	LBS/HR	POUNDS PER HOUR
ATU	AIR TERMINAL UNIT	LF	LINEAL FOOT, FEET
BHP	BRAKE HORSE POWER	LVR	LOUVER
BLDG	BUILDING	MAX	MAXIMUM
BSMT	BASEMENT	MBH	1000 BTUH
BTUH	BRITISH THERMAL UNIT PER HOUR	MCC	MOTOR CONTROL CENTER
BWV	BACK WATER VALVE	MECH	MECHANICAL(LY)
CFH	CUBIC FOOT PER HOUR	MEZZ	MEZZANINE
CFM	CUBIC FOOT PER MINUTE	MFR	MANUFACTURER
CIP	CAST IRON PIPE	MIN	MINIMUM
CLG	CEILING	MIN	MINUTE
CONC	CONCRETE	MISC	MISCELLANEOUS
COND	CONDENS(ATE) (ER)	N.I.C.	NOT IN CONTRACT
CONN	CONNECTIONS	NO	NUMBER
CONT	CONTINUE) (OUS) (ATION)	N.T.S.	NOT TO SCALE
CONTR	CONTRACTOR	OA	OUTSIDE AIR
CORR	CORRIDOR	OD	OUTSIDE DIAMETER/ DIMENSION
DA	DIALYSIS ACID	PD	PRESSURE DROP
DDC	DIRECT DIGITAL CONTROL (PANEL)	PLBG	PLUMBING
DEG	DEGREE(S)	PRES	PRESSURE
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DI	DEIONIZED WATER	PVC	POLYVINYL CHLORIDE
DIFF	DIFFUSER	R	RADIUS
DMPR	DAMPER	RA	RETURN AIR
DN	DOWN	REG	REGISTER
DW	DIALYSIS WATER	REQD	REQUIRED
DWG(S)	DRAWING(S)	RH	RELATIVE HUMIDITY
EA	EACH	RM	ROOM
EA	EXHAUST AIR	RO	REVERSE OSMOSIS
ELEC	ELECTRICAL	RPM	REVOLUTIONS PER MINUTE
EMER	EMERGENCY	RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
EX	EXISTING	RTU	ROOFTOP UNIT
EXH	EXHAUST	SA	SUPPLY AIR
EJ	EXPANSION JOINT	SHT	SHEET
EXT	EXTERIOR	SP	STATIC PRESSURE
F	FAHRENHEIT	SPEC(S)	SPECIFICATION(S)
FDV	FIRE DEPARTMENT VALVE	SQ	SQUARE
FFD	FUNNEL FLOOR DRAIN	S.S.	STAINLESS STEEL
FFE	FINISHED FLOOR ELEVATION	STR	STRUCTURE) (AL)
FLR	FLOOR	T	THERMOSTAT
FLEX	FLEXIBLE	TEMP	TEMPERATURE
FM	FEET PER MINUTE	TMV	THERMOSTATIC MIXING VALVE
F&T	FLOAT AND THERMOSTATIC (TRAP)	TYP	TYPICAL
FT	FOOT, FEET	VAV	VARIABLE AIR VOLUME
FTG	FOOTING	VENT	VENTILATION OR VENTILATOR
FTR	FINNED TUBE RADIATION	VERT	VERTICAL
GA	GAUGE	VIB SOL	VIBRATION ISOLATION
GAL	GALLON	VOL	VOLUME
GALV	GALVANIZED	VS	VENT STACK
GEN	GENERATOR	VSD	VARIABLE SPEED DRIVE (MOTOR CONTROLLER)
GENL	GENERAL	VTR	VENT THROUGH ROOF
GPH	GALLON(S) PER HOUR	V.I.F.	VERIFY IN FIELD
GPM	GALLON(S) PER MINUTE	W	WASTE
GRL	GRILLE	W	WITH
HB	HOSE BIB	W/O	WITHOUT
HP	HIGH PRESSURE	WH	WALL HYDRANT
HP	HORSE POWER	WS	WASTE STACK
		WTR	WATER

MECHANICAL SPECIFICATIONS

REFERENCE

INSTRUCTIONS TO BIDDERS, CONDITIONS OF THE CONTRACT, DIVISION 1, AND THIS SECTION SHALL APPLY TO THIS DIVISION.

CODES, PERMITS & INSPECTIONS

CONTRACTOR SHALL SECURE PERMITS, INSPECTIONS AND TESTS, PAY ALL FEES, DEPOSITS, AND COSTS FOR ALL MECHANICAL UTILITIES AND SERVICES INVOLVED AND PRESENT THE OWNER A CERTIFICATE OF INSPECTION AND APPROVAL FROM THE DEPARTMENT HAVING JURISDICTION OVER HIS WORK. SHOULD ANY CHANGE IN THE DRAWINGS AND SPECIFICATIONS BE REQUIRED TO COMPLY WITH ALL APPLICABLE CODES, RULES, REGULATIONS, ETC., CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE SUBMITTING BID. AFTER ENTERING INTO CONTRACT, ALL WORK NECESSARY TO MEET THE REQUIREMENTS SHALL BE COMPLETED WITHOUT ADDITION TO THE CONTRACT AMOUNT. WHERE WORK INDICATED IS MORE THAN REQUIRED BY CODES, ETC., SUCH WORK SHALL BE AS INDICATED.

JOB OBSERVATIONS

NOTWITHSTANDING ANY REFERENCE TO ANY CODE, RULE OR REGULATION, ENGINEER SHALL HAVE NO RESPONSIBILITY FOR SAFETY ON THE JOB SITE. SHALL HAVE NO RIGHT TO CHANGE OR STOP THE WORK, SHALL NOT CONTROL THE MEANS OF THE WORK, AND SHALL NOT HAVE ANY DUTY TO PROVIDE SUPERVISION OF MEANS, METHODS, PROCESSES OR PROCEDURES OF CONSTRUCTION.

FIRST CLASS WORKABLE SYSTEMS

FIRST CLASS WORKABLE SYSTEMS SHALL BE PROVIDED BY THE CONTRACTOR IF, IN THE OPINION OF THE CONTRACTOR, CHANGES IN THE DRAWINGS OR SPECIFICATIONS ARE REQUIRED TO PRODUCE FIRST-CLASS WORKABLE SYSTEMS. CONTRACTOR SHALL REQUEST AN INTERPRETATION FROM THE ENGINEER BEFORE PROCEEDING WITH THE WORK. IF THE CONTRACTOR FAILS TO MAKE SUCH A REQUEST, NO EXCUSE WILL THEREAFTER BE ENTERTAINED FOR FAILURE TO PROVIDE FIRST-CLASS WORKABLE SYSTEMS.

DRAWINGS

DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN, AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS NOR TO SERVE AS SHOP DRAWINGS. THE ENGINEERS AND OWNER RESERVE THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. AT THE TIME OF ROUGH-IN WITHOUT ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, LOCATIONS, ETC. FOR ACCURACY AND POSSIBILITY OF INTERFERENCES DUE TO FIELD CONDITIONS AND ACTUAL BUILDING STRUCTURE. FAILURE TO CHECK WILL BE NO REASON FOR ADDITIONAL COMPENSATION.

SHOP DRAWINGS

SUBMIT COMPLETE PDF ELECTRONIC COPY FOR ALL MECHANICAL EQUIPMENT AND MATERIALS TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION OF WORK OR ORDERING OF EQUIPMENT. DRAWINGS MUST BE APPROVED BY THE ENGINEER BEFORE ORDERING EQUIPMENT. ALL SHOP DRAWINGS NOT APPROVED SHALL BE CORRECTED AND RESUBMITTED TO THE ENGINEER BEFORE ORDERING.

STANDARDS OF INDUSTRY

STANDARDS OF INDUSTRY SHALL BE FOLLOWED WHEN APPLICABLE.

GUARANTEE

CONTRACTOR SHALL GUARANTEE EQUIPMENT, MATERIALS AND WORKMANSHIP IN HIS CONTRACT AND SHALL MAKE GOOD AT HIS OWN EXPENSE ANY DEFECTS WHICH MAY DEVELOP WITHIN ONE YEAR AFTER START-UP OF EACH PIECE OF EQUIPMENT, OCCUPANCY BY OWNER, OR FINAL ACCEPTANCE OF THE JOB, WHICHEVER OCCURS FIRST.

CONTRACTOR'S RECORD/ AS-BUILT DRAWINGS

CONTRACTOR SHALL MAINTAIN AND KEEP AN UP-TO-DATE SET OF DRAWINGS REFLECTING "AS-BUILT" CONDITIONS OF THEIR WORK AS IS REQUIRED BY CODE. CONTRACTOR SHALL INDICATE EXACT DIMENSIONS AND ELEVATIONS FOR ALL UNDERGROUND WORK. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER THE AS-BUILT DRAWINGS.

LOCAL CONDITIONS

BEFORE SUBMITTING BIDS AND/OR PROCEEDING WITH THE PROJECT, THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS, SPECIFICATIONS AND ADDENDA ISSUED FOR THE PROJECT AND SHALL EXAMINE THE PROJECT SITE. THE CONTRACTOR SHALL THOROUGHLY INVESTIGATE THE PROJECT SITE AND BECOME FULLY INFORMED AS TO THE EXTENT OF HIS WORK AND COORDINATION OF THIS WORK WITH ALL OTHER TRADES AND INCLUDE ALL COST TO PERFORM AND COMPLETE WORK FOR THIS PROJECT PER DRAWINGS AND SPECIFICATION AND ALL CODES.

OPERATION AND MAINTENANCE MANUALS

CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER TWO (2) COPIES OF THREE RING BINDER BOOKS WITH TABS FOR SECTIONS COVERING EACH ITEM OF EQUIPMENT. NOTEBOOKS SHALL INCLUDE SHOP DRAWINGS, MAINTENANCE MANUALS, OPERATING MANUALS AND PARTS LIST AS NECESSARY TO INSTRUCT OWNER ON PROPER OPERATION AND MAINTENANCE OF EQUIPMENT FOR THIS PROJECT. THESE MANUALS SHOULD BE HARD BOUND IN BEST QUALITY BINDERS AND TURNED OVER TO THE ARCHITECT/ENGINEER FOR APPROVAL AT COMPLETION OF PROJECT.

START-UP SERVICE

CONTRACTOR SHALL ARRANGE WITH EQUIPMENT MANUFACTURERS FOR PROVIDING COMPLETE START-UP SERVICE FOR ALL EQUIPMENT ON THIS PROJECT. ALL START-UP SERVICES SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER AND/OR ENGINEER. A WRITTEN REPORT SHALL BE SUBMITTED TO THE ENGINEER STARTING DATE OF START-UP, MANUFACTURER APPROVAL OF SYSTEM OPERATION AND INSTALLATION.

CUTTING AND PATCHING

CUTTING AND PATCHING SHALL BE BY TRADES REGULARLY ENGAGED IN THIS TYPE OF WORK, EXCEPT DRILLING OF HOLES SHALL BE DONE BY THE TRADES REQUIRING SAME. STRUCTURAL MEMBERS SHALL NOT BE CUT OR DRILLED.

SALVAGEABLE MATERIAL

SALVAGEABLE MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED AT LOCATIONS AS DIRECTED BY THE OWNER, EXCEPT THE OWNER RESERVES THE RIGHT TO DESIGNATE CERTAIN ITEMS OF SALVAGEABLE MATERIAL TO BE REMOVED FROM THE PROJECT SITE.

NATURAL GAS AND PIPING ABOVE GRADE

NATURAL GAS PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK CARBON STEEL ASTM A53, SEAMLESS WITH BLACK MALLEABLE IRON FITTINGS, 150 PSIG SCREWED ASA B16.191.

FURNISH LUBRICATED PLUG SHUT-OFF VALVES ON MAIN BRANCHES AND AT DOMESTIC PRESSURE REGULATORS. LOCATE WRENCH NEAR METER. STOP VALVES AT EQUIPMENT AND OUTLETS SHALL BE BALL VALVES WHERE 2" AND SMALLER. GAS PIPING SHALL HAVE DRIPS AT BOTTOM OF RISERS WITH BRANCHES TAKEN FROM TOP OR SIDE OF HORIZONTAL PIPE. CAP ALL GAS PIPE OUTLETS UNTIL CONNECTED TO GAS EQUIPMENT. ALL GAS PIPING SHALL BE RUN IN SPACES WHICH ARE ACCESSIBLE FOR INSPECTION AND SERVICE.

VALVES

VALVES SHALL BE JENKINS, CRANE, LUNKENHEIMER, HAMMOND, FAIRBANKS OR NIBCO-SCOTT (PRESSURE RATED) AND SIMILAR TO THE FOLLOWING JENKINS VALVES.

GATE VALVES - FOR STEEL PIPE #4 1/2" UP TO 2 1/2".

BALL VALVES - #901A OR 902A FOR SIZES THROUGH 2".

UNIONS

UNIONS OR FLANGES SHALL BE USED AT EQUIPMENT CONNECTIONS. CONNECTIONS BETWEEN COPPER AND IRON OR STEEL PIPE SHALL BE MADE WITH INSULATING UNIONS OR INSULATING FLANGES WITH GASKETS AND BUSHINGS SELECTED FOR THE INTENDED SERVICE.

PLATES AND SLEEVES

PROVIDE AND INSTALL PIPE SLEEVES FOR ALL PIPING AND DUCTS PASSING THROUGH WALLS, FLOORS AND CEILINGS. SLEEVES THROUGH WALLS BELOW GRADE AND AT ALL FLOORS SHALL BE BLACK STEEL. SLEEVES THROUGH WALLS AND CEILINGS MAY BE 20 GAUGE GALVANIZED SHEET METAL. WHERE PIPES ARE INSULATED, SLEEVES SHALL BE LARGE ENOUGH TO PASS THE INSULATION.

HANGERS AND SADDLES

SHALL BE MODERN HANGER CORP., GRINNELL/ELCEN, AUTO GRIP OR M-CO. FOR COPPER PIPE WITH STEEL HANGERS. CLEAN AND WRAP PIPE WITH TWO LAYERS OF PLASTIC INSULATING TAPE AT POINTS OF CONTACT. HANGERS FOR PIPING WITH VAPOR BARRIER SEALED INSULATION SHALL BE MULTIPURPOSE PIPE SADDLES FITTING OVER THE INSULATION. WIRE OR PERFORATED STRAP IRON WILL NOT BE PERMITTED FOR PIPE SUPPORTS. HANGERS SHALL BE CLEVIS OR SPLT RING TYPE WITH VERTICAL ADJUSTMENT WITH MAXIMUM SPACING AS FOLLOWS:

PIPE SIZE	STEEL PIPE	ROD SIZE
1/2" TO 3/4"	5 FEET	3/8"
1" TO 1-1/4"	7 FEET	3/8"
1-1/2" TO 2"	9 FEET	1/2"

TESTING FLUSHING AND CLEANING OF PIPING SYSTEMS

NATURAL GAS PIPING SHALL BE TESTED AS RECOMMENDED BY THE LOCAL UTILITY COMPANY.

PIPE INSULATION

PIPE INSULATION SHALL BE AS MANUFACTURED BY ARMSTRONG, CERTAINTED, KNAUF, MANSVILLE OR OWENS-CORNING. OWENS-CORNING NUMBERS ARE GIVEN TO ESTABLISH TYPES. ALL INSULATIONS, COVERINGS, VAPOR BARRIERS, ADHESIVES, ETC. SHALL BE CLASS A, MAXIMUM OF 25 FLAME SPREAD, 35 FUEL CONTRIBUTED AND 50 OR LESS DEVELOPED SMOKE RATING. INSULATION SHALL HAVE VAPOR BARRIER AND BE UL RATED. INSULATION SHALL BE OWENS-CORNING FIBERGLAS ASS SSI. II PIPE COVERING WITH FACTORY APPLIED DOUBLE PRESSURE SENSITIVE ADHESIVE SYSTEM TO PROVIDE POSITIVE CLOSURES AND VAPOR BARRIER INTEGRITY.

ALL LONGITUDINAL JOINTS SHALL BE SECURED WITH SELF SEALING LAPS. ALL TRANSVERSE JOINTS SHALL BE SECURED WITH SELF SEALING BUTT STRIPS. BUTT STRIPS SHALL BE MINIMUM 3" WIDE. APPLY INSULATION TO PIPE WITH ALL JOINTS BUTTED TIGHTLY TOGETHER, FITTINGS, INCLUDING VALVES, FLANGES, UNIONS, ETC. SHALL BE INSULATED WITH THE SAME THICKNESS AS THE REQUIRED PIPE INSULATION AND COVERED WITH ZESTON OR SPEEDLINE PVC FITTING COVER.

REFRIGERANT PIPING, CONDENSATE DRAIN PIPING AND/OR UNDERGROUND DOMESTIC WATER PIPING SHALL BE COVERED WITH TYPE AP ARMAFLEX INSULATION, 3/4" THICK, CLOSED CELL WITH A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE RATING OF 50 OR LESS. USE ARMSTRONG #520 ADHESIVE. ARMAFLEX INSULATION LOCATED OUTDOORS SHALL BE PAINTED WITH (2) COATS OF WHITE ARMSTRONG PAINT.

CLEAN ALL SURFACES BEFORE APPLYING COVERING. INSULATION SHALL BE CONTINUOUS THROUGH WALLS, FLOORS, CEILINGS, ETC. TERMINATE AND SEAL INSULATION AT BOTH ENDS OF UNINSULATED UNIONS AND FLANGES BY A NEAT 45 DEGREE BEVEL. INSTALL ALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PIPE IDENTIFICATION

ALL PIPING SHALL BE IDENTIFIED PER ANSI/OSHA OR OWNER 'S STANDARDS WITH COLOR PIPE BANDS, IDENTIFICATION LABELS AND FLOW ARROWS. PIPES SHALL BE Banded AND LABELED ON 10'-0" CENTERS ON CONTINUOUS LINES, AT EQUIPMENT CONNECTIONS, AT BOTH SIDES OF A WALL THROUGH WHICH PIPE PASSES AT EVERY BRANCH CONNECTION, ON PIPING WITHIN SIGHT OF AN ACCESS DOOR OR PANEL. SHOW SLOPE DIRECTIONAL ARROWS AT EACH IDENTIFICATION POINT. LABELS, FLOW ARROWS AND STENCIL AND PAINT SHALL BE 1" HIGH ON PIPING UP TO 2 1/2". BANDS SHALL BE 1 1/2" WIDE. LABELS SHALL BE AS MANUFACTURED BY SETON OR W.H. BRADY COMPANY OR EQUAL. VERIFY TYPE, SIZE AND COLORS OF PIPE IDENTIFICATION WITH OWNER.

GENERAL PIPING NOTES

WHERE DISSIMILAR MATERIAL PIPING ARE JOINED, DIELECTRIC NIPPLES SHALL BE UTILIZED AND SHALL BE NON-CONDUCTING FOR CONNECTION OF DISSIMILAR MATERIALS. DIELECTRIC NIPPLES SHALL BE SIMILAR TO VITCALITE STYLE 47. A BRASS ADAPTOR DIELECTRIC UNION IS NOT ACCEPTABLE.

DUCTWORK

DUCTS, CASINGS, HOUSINGS, ETC. SHALL BE FABRICATED FROM, PRIME QUALITY, HOT DIP GALVANIZED STEEL SHEET AS RECOMMENDED IN THE LATEST ISSUES OF ASHRAE GUIDE AND SMACNA DUCT MANUALS IN VARIABLE AIR VOLUME SYSTEMS, WHEN USED. FOR ALL SUPPLY AIR DUCTWORK AND EXHAUST AIR RETURN AIR, OUTSIDE AIR INTAKE AND RELIEF AIR DUCTS, DUCT CONSTRUCTION AND INSTALLATION SHALL MEET SMACNA STANDARDS FOR 2" W.C.

RECTANGULAR DUCTS SHALL HAVE TEES, ELBOWS AND BENDS WITH A MINIMUM THROAT RADIUS OF 1 TIMES THE DUCT WIDTH AND BE OF THE SAME GAUGE AND MATERIAL AS THE STRAIGHT DUCT. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE IF POSSIBLE, MAXIMUM 30 DEGREES DIVERGENCE UPSTREAM OF EQUIPMENT AND 45 DEGREES CONVERGENCE DOWNSTREAM. WHERE VOLUME BOXES ARE CONNECTED TO DUCT MAIN OR WHERE DIFFUSERS ARE CONNECTED TO DUCT BRANCHES BY ROUND FLEX DUCT, INSTALL DUCT SPIN-IN FITTINGS SUCH AS FLEXMASTER USA, INC. MODEL #FLD WITH DAMPER AND POSITIVE LOCKING WING NUT. SEAL ALL EDGES WITH FIRE RETARDANT DUCT SEALER. FLEXIBLE INSULATED DUCTS (CONNECTIONS FROM MAIN DUCT TO VOLUME BOX AND/OR FROM DUCT BRANCH TO DIFFUSERS) SHALL BE FLEXMASTER USA, INC. TYPE #3. USE MAXIMUM LENGTH OF 5'-0" TO EACH SECTION. INSTALL FLEXIBLE DUCT WITH MINIMUM OF BENDS USING LONG RADIUS BENDS ONLY.

DUCT SEALANT

ALL DUCTWORK INCLUDING SUPPLY AIR, OUTSIDE AIR, RETURN AIR, EXHAUST AIR AND RELIEF AIR DUCT SYSTEMS SHALL HAVE ALL JOINTS SEALED. DUCTWORK DESIGNED AT SMACNA 2" PRESSURE SHALL MEET SMACNA CLASS 'B' SEAL REQUIREMENTS.

DUCT HANGERS

INSULATED STEEL DUCTWORK SHALL BE SUPPORTED BY MEANS OF TRAPEZE BARS AND ROUND STEEL ROD OF SIZES LISTED BELOW. ROUND STEEL RODS SHALL BE ELECTRO-GALVANIZED ALL-THREAD ROD. HANGERS SHALL BE PROVIDED AT BOTH SIDES OF FLAT SIDED DUCTWORK FOR THE FULL HEIGHT OF DUCT. ROUND DUCTWORK SHALL BE PROVIDED WITH A BAND OF THE SAME SIZE AS THE HANGER TO COMPLETELY ENIRCLE THE DUCT. BAND SHALL BE SECURED TO THE HANGER BY MEANS OF A MINIMUM 3/16" BOLT. MINIMUM DUCT HANGER SIZES SHALL BE AS LISTED BELOW

DUCT SIZE	MIN UPPER		MAX HANGERS	MIN TRAPEZE SHELF ANGLE
	ATTCHMT	STL ROD SPACING		
UP TO 16"	750 LBS.	3/8" 10'	2	1-1/2"x1-1/2"x3/16"
19" TO 36"	1000 LBS.	3/8" 10'	2	1-1/2"x1-1/2"x3/16"

DUCT INSULATION

DUCTWORK LOCATED IN CONCEALED AREAS (CONCEALED AREAS SHALL INCLUDE DUCT SHAFTS, SPACES ABOVE DROPPED CEILINGS, SPACES BETWEEN WALLS, ETC.) SHALL BE WRAPPED EXTERNALLY WITH OWENS-CORNING, KNAUF, MANSVILLE, OR EQUAL, FIBERGLAS ALL-SERVICE DUCT WRAP. LIGHT DENSITY GLASS FIBER INSULATION FACED WITH A REINFORCED FOLKRAFT LAMINATE MEETING THE REQUIREMENTS OF ASTM C553, 1.0 LBS. PER CUBIC FOOT DENSITY, 1-1/2" THICK. WHERE DUCTS ARE 24" IN WIDTH OR GREATER, MECHANICAL FASTENERS SPACED AT 18" (APPROX.) CENTERS ARE REQUIRED ON THE BOTTOM OF THE DUCT TO PREVENT THE INSULATION FROM SAGGING. ALL SEAMS, TEARS, PUNCTURES, AND OTHER PENETRATIONS SHALL BE CLOSED WITH 3" PRESSURE SENSITIVE, VAPOR BARRIER MASTIC REINFORCED GLASS SCRIM TAPE.

INTERNAL ACOUSTIC DUCT LINER

WHERE CALLED FOR, LINE DUCT WITH 1" THICK FIBERGLAS AEROFLEX ACOUSTICAL INTERNAL DUCT LINER, IN LIEU OF EXTERNAL DUCT INSULATION. INSULATION SHALL BE 1.5 LB. DENSITY, WITH A FIRE RESISTANT COATING TO BOND FIBERS OF THE AIR STREAM SIDE SURFACE, INSTALLED AS RECOMMENDED BY MANUFACTURER.

TESTING AND BALANCING

TESTING AND BALANCING SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED AGENCY IN ACCORDANCE WITH NEBB AND SMACNA STANDARDS. FURNISH 5 SETS OF REPORTS OF WATER BALANCE REPORTS TO THE ENGINEER INDICATING DESIGN AND ACTUAL QUANTITIES, NAMEPLATE DATA, ETC.

AIR SYSTEMS ADJUST AIR HANDLING, DISTRIBUTION SYSTEMS, AIR INLETS AND OUTLETS, ETC. TO PROVIDE SUPPLY, RETURN, EXHAUST, OUTSIDE AIR AND RELIEF AIR QUANTITIES TO WITHIN 10% OF REQUIRED OR DESIGNED AIR QUANTITIES. VERIFY THAT SYSTEMS ARE COMPLETE AND OPERABLE BEFORE COMMENCING WORK. VERIFY SYSTEMS ARE STARTED AND OPERATING AT A SAFE AND NORMAL OPERATION. TEMPERATURE CONTROL SYSTEMS ARE INSTALLED COMPLETE AND OPERABLE, PROPER THERMAL OVERLOAD PROTECTION IS IN PLACE FOR ELECTRICAL EQUIPMENT. FINAL FILTERS ARE CLEAN AND IN PLACE. DUCT SYSTEMS ARE CLEAN OF DEBRIS, FANS ARE ROTATING CORRECTLY, FIRE AND VOLUME DAMPERS ARE IN PLACE AND IN OPEN POSITIONS, AIR COIL FINS ARE CLEANED AND COMBED, ACCESS DOORS ARE CLOSED AND DUCT END CAPS ARE IN PLACE, AIR OUTLETS ARE INSTALLED AND CONNECTED, DUCT SYSTEM LEAKAGE IS MINIMIZED, ETC. MEASURE AND RECORD ALL AIR MOVING EQUIPMENT, AIR INLETS AND OUTLETS STATIC PRESSURES, RPM'S, ETC.

GENERAL NOTES

- IF COMPLIANCE WITH TWO OR MORE DIFFERING STANDARDS, REQUIREMENTS, DRAWINGS OR SPECIFICATIONS, OR ANY COMBINATION THEREOF, IS SPECIFIED AND THESE ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. THE MOST STRINGENT REQUIREMENT WILL BE THE BETTER QUALITY OR GREATER QUANTITY OF WORK, AND WILL TYPICALLY BE THE MORE EXPENSIVE OPTION. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
- THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
- DESIGN DOCUMENTS MUST BE REPRODUCED IN THEIR ENTIRETY, INCLUDING ALL PLANS, SPECIFICATIONS, AND FRONT END DOCUMENTS.
- ONLY COMPLETE DOCUMENT SETS ARE TO BE DISTRIBUTED TO SUBCONTRACTORS AND SUPPLIERS OF THE CONTRACTOR DURING BIDDING OR CONSTRUCTION.
- FAILURE TO REVIEW AND COMPLY WITH A FULL SET OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS A VALID REASON FOR FAILURE TO MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
- ALL MECHANICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH VA HVAC DESIGN MANUAL, LOCAL ORDINANCES, AND LAWS AND SHALL BE OF SIMILAR QUALITY, MATERIAL, AND INSTALLATION METHODOLOGY AS SIMILAR WORK IN EXISTING FACILITY. FOR PURPOSES OF THIS DESIGN, THE CODES FOR THE STATE OF ~~MI~~ WERE USED AS THE BASIS.
- ALL MECHANICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, ORDINANCES, AND LAWS AND SHALL BE OF SIMILAR QUALITY, MATERIAL, AND INSTALLATION METHODOLOGY AS SIMILAR WORK IN EXISTING FACILITY.
- ALL INSULATION SHALL BE PRESUMED ASBESTOS CONTAINING MATERIAL (PACM) UNLESS OTHERWISE INDICATED OR LABELED. THE CONTRACTOR SHALL ABATE ALL ASBESTOS BY APPROVED METHODS. CONSULT WITH THE OWNER'S REPRESENTATIVE REGARDING LOCATION AND EXTEND OF PACM PRIOR TO THE WORK.
- HAZARDOUS MATERIALS ARE PRESENT IN CONSTRUCTION TO BE SELECTIVELY DEMOLISHED. A REPORT ON THE PRESENCE OF HAZARDOUS MATERIALS IS ON FILE FOR REVIEW AND USE. EXAMINE REPORT TO BECOME AWARE OF LOCATIONS WHERE HAZARDOUS MATERIALS ARE PRESENT.
 - HAZARDOUS MATERIAL REMEDIATION IS SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS.
 - DO NOT DISTURB HAZARDOUS MATERIALS OR ITEMS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS EXCEPT UNDER PROCEDURES SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS.
 - IF THE CONTRACTOR OR ANY SUBCONTRACTORS SUSPECT UNANTICIPATED HAZARDOUS MATERIALS ARE PRESENT, THE CONTRACTOR IS TO STOP ALL WORK AFFECTING SAID MATERIALS AND NOTIFY THE ENGINEER.
- ALL ABOVE CEILING SYSTEMS AND COMPONENTS (INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC.) SHALL BE COORDINATED SUCH THAT THE SYSTEMS ARE PROPERLY INTEGRATED IN THE SPACE PROVIDED ABOVE CEILING AT THE CEILING HEIGHTS NOTED. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO COORDINATE PATHWAYS WITHIN THE SPACE PROVIDED. CEILING HEIGHTS WILL NOT BE MODIFIED.
- COORDINATE LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL AND ELECTRICAL PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION, AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE MECHANICAL CONTRACTOR TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING AND COMPLETION OF WORK.
- CEILING CONTRACTOR SHALL FURNISH AND INSTALL HINGED STEEL ACCESS PANELS FOR ALL ABOVE CEILING DAMPERS, VAV BOXES, FILTERS, BALANCING VALVES, AND ISOLATION VALVES IN GYPSUM CEILINGS. PANELS SHALL BE KEYS FOR ACCESS BY MAINTENANCE STAFF ONLY, AND FINISHED WITH WHITE BAKED-ON ENAMEL. MECHANICAL CONTRACTOR SHALL CONSOLIDATE ABOVE CEILING ACCESS REQUIREMENTS TO LIMIT PANELS TO NO MORE THAN 25. MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY ACCESS PANELS AS A RESULT FROM PLAN DEVIATIONAL TOLERATION. COORDINATE QUANTITY AND LOCATION OF ADDITIONAL ACCESS PANELS WITH CEILING CONTRACTOR.
- CONTRACTOR SHALL FURNISH AND INSTALL BEVELED OR TAPERED TAKEOFFS AT ALL CONNECTIONS OF DUCT RUNOUTS TO TRUNKS. ALL FITTINGS SHALL BE IN ACCORDANCE WITH SMACNA.
- CONTRACTOR SHALL FURNISH AND INSTALL MANUAL BALANCING DAMPERS AT ALL SUPPLY, RETURN, AND EXHAUST TRUNK BRANCHES AND RUNOUTS.
- CONTRACTOR SHALL FURNISH AND INSTALL TEMPERATURE SENSOR IN SPACE RETURN DUCT. CONTRACTOR SHALL PLACE SENSORS TO ALLOW FOR ACCESS WITHIN 2' VIA RETURN GRILLE REMOVAL OR CEILING ACCESS PANELS.
- CONTRACTOR SHALL FURNISH AND INSTALL TEMPERATURE SENSORS FOR EQUIPMENT AWAY FROM HEAT PRODUCING EQUIPMENT U.N.O.
- CONTRACTOR SHALL FURNISH AND INSTALL ISOLATION AND BALANCING VALVES AT ALL VAV BOXES, AND BALANCING VALVES AT EACH FLOOR'S DISTRIBUTION LOOP. CONTRACTOR SHALL LOCATE VALVES TO ALLOW FOR ACCESS WITHIN 3' AFTER CONSTRUCTION IS COMPLETE.
- MECHANICAL CONTRACTOR SHALL COORDINATE EQUIPMENT INSTALLATION WITH ROOFING CONTRACTOR OR ROOFING MANUFACTURER TO AVOID DAMAGE TO ROOFING SYSTEM.
- COORDINATE LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL, STRUCTURAL, CIVIL, INTERIORS, AND ELECTRICAL PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE MECHANICAL CONTRACTOR TO THE ENGINEER PRIOR TO PROCEEDING AND COMPLETION OF WORK.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL NEW MECHANICAL PENETRATIONS THROUGH RATED ASSEMBLIES.
- MECHANICAL CONTRACTOR SHALL PROVIDE WATER PROOF SHEET METAL CAP, INSULATED (EQUIVALENT TO ROOF) FOR ALL DEMOLISHED ROOF PENETRATIONS.
- A 'TAB' IS REQUIRED FOR THE WORK. EQUIPMENT SHOP DRAWINGS WILL NOT BE REVIEWED PRIOR TO RECEIPT OF THE EXISTING SYSTEM 'TAB'.
- MECHANICAL CONTRACTOR SHALL MEASURE SYSTEM FLOWS BEFORE SYSTEM ALTERATIONS AND ADJUST SYSTEM TO ACHIEVE PRE-CONSTRUCTION VALUES. VALUES BEFORE AND AFTER THE WORK SHALL BE RECORDED AND SUPPLIED TO THE OWNER'S REPRESENTATIVE.
- ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH MOTOR STARTERS COMPATIBLE WITH CONTROL'S SYSTEM. COORDINATE WITH CONTROLS AND ELECTRICAL CONTRACTORS.
- UNLESS OTHERWISE INDICATED, ROOF OPENINGS MADE IN EXISTING ROOF STRUCTURE SHALL BE SUPPORTED ON ALL EDGES BY L4X4X1/4 FOR SPANS OF 5'-0" OR LESS, AND BY C8X11.5 FOR SPANS BETWEEN 5'-0" AND 10'-0". SPANS EXCEEDING 10'-0" SHALL REQUIRE SECTIONS APPROVED BY THE ENGINEER. CONNECTIONS SHALL BE WELDED IN ACCORDANCE WITH AWS D1.1 AND AISC, OR MINIMUM 2-BOLT CONNECTIONS ACCORDING TO AISC.

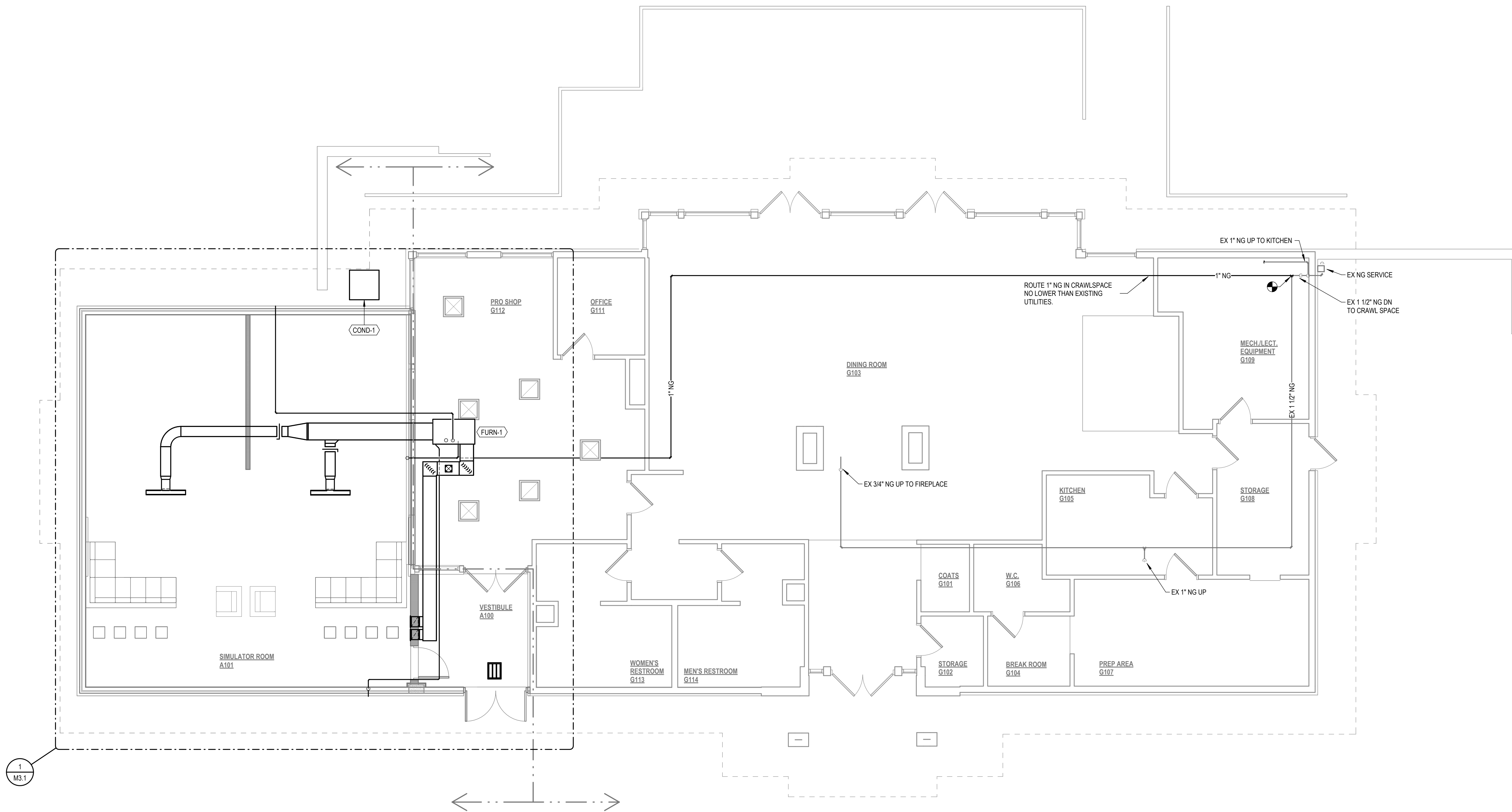
	ISSUED FOR BID	05/12/26
	FINAL OWNER REVIEW	04/30/26
NO.	REVISION	DATE



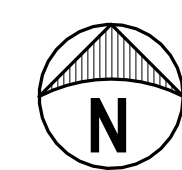
WTAARCH.COM

WTA ARCHITECTS
 100 S. Jefferson Ave., Suite 601
 Saginaw, Michigan 48607
 989 752 8107 COPYRIGHT ©

PROJECT TITLE	
ADDITION TO: CURRIE GOLF COURSE - WEST CLUBHOUSE	
MIDLAND, MICHIGAN	
SHEET TITLE GENERAL NOTES	
PROJECT NUMBER 25-0546-0295	SHEET NUMBER
PROJECT DATE 05/12/26	MO.0
CHECKED BY M. LAWRIN	



1
M3.1



OVERALL MECHANICAL PLAN

SCALE: 3/16" = 1'-0"

ISSUED FOR BID	05/12/26
FINAL OWNER REVIEW	04/30/26
NO. REVISION	DATE



WTA ARCHITECTS

100 S. Jefferson Ave., Suite 601
Saginaw, Michigan 48607
989 752 8107

WTAARCH.COM

COPYRIGHT ©

PROJECT TITLE
ADDITION TO:
**CURRIE GOLF COURSE -
WEST CLUBHOUSE**

MIDLAND, MICHIGAN

SHEET TITLE
**OVERALL MECHANICAL
PLAN**

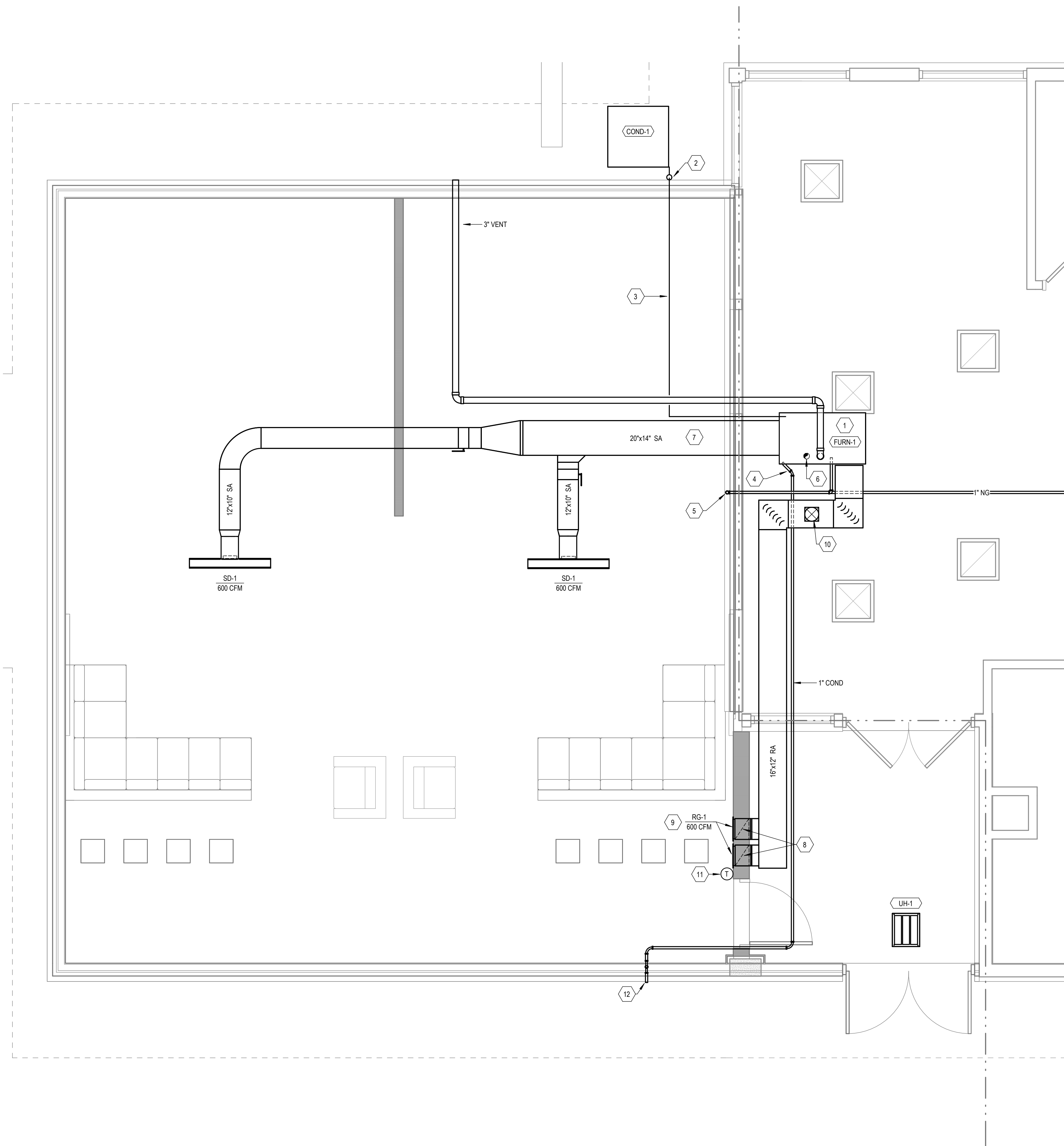
PROJECT NUMBER
25-0546-0295

SHEET NUMBER

PROJECT DATE
05/12/26

M3.0

CHECKED BY
M. LAWREN



CONSTRUCTION NOTES	
SYMBOL	DESCRIPTION
1	FIELD LOCATE UNIT IN CEILING SPACE ABOVE PRO SHOP. AVOID EXISTING SYSTEMS.
2	PROVIDE PIPE COVER OVER EXPOSED REFRIGERANT LINES. COORDINATE WITH ARCH ON FINISH.
3	FIELD ROUTE REFRIGERANT LINE TO CONDENSER. MAINTAIN PROPER SLOPE AND SUPPORT PER IMVC. PIPING TO BE CLEANED AND CAPPED.
4	PROVIDE CONDENSATE DRAIN PAN AND TRAP. ROUTE CONDENSATE PIPE IN 1" COPPER TO SOUTH LANDSCAPE AREA.
5	ROUTE 3/4" NG FROM CRAWL SPACE IN WALL.
6	3" COMBUSTION AIR UP THRU ROOF.
7	ALL SUPPLY DUCT ABOVE CEILING INSULATION TO BE INSULATED.
8	(2) 12" X 8" RETURN AIR DUCTS IN WALL. STRADDLE STUD.
9	ALIGN BOTH RG-1 SQUARE TO FLOOR. INSTALL 2" A.F.F.
10	INSTALL 8" OUTDOOR AIR INTAKE. BALANCE DAMPER TO 315 CFM. TRANSITION FROM 8" ROUND TO 8" X 8" FOR DUCT HEATER.
11	THERMOSTAT LOCATION SERVING FURN-1
12	TERMINATE CONDENSATE LINE TO LANDSCAPE AREA. PROVIDE INSECT SCREEN.

ISSUED FOR BID	05/12/26
FINAL OWNER REVIEW	04/30/26
NO.	REVISION DATE

WAK
WILLIAM A. KIBBE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS | SURVEYORS

WTAARCH.COM

WTA ARCHITECTS

100 S. Jefferson Ave., Suite 601
Saginaw, Michigan 48607
989 752 8107 COPYRIGHT ©

PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

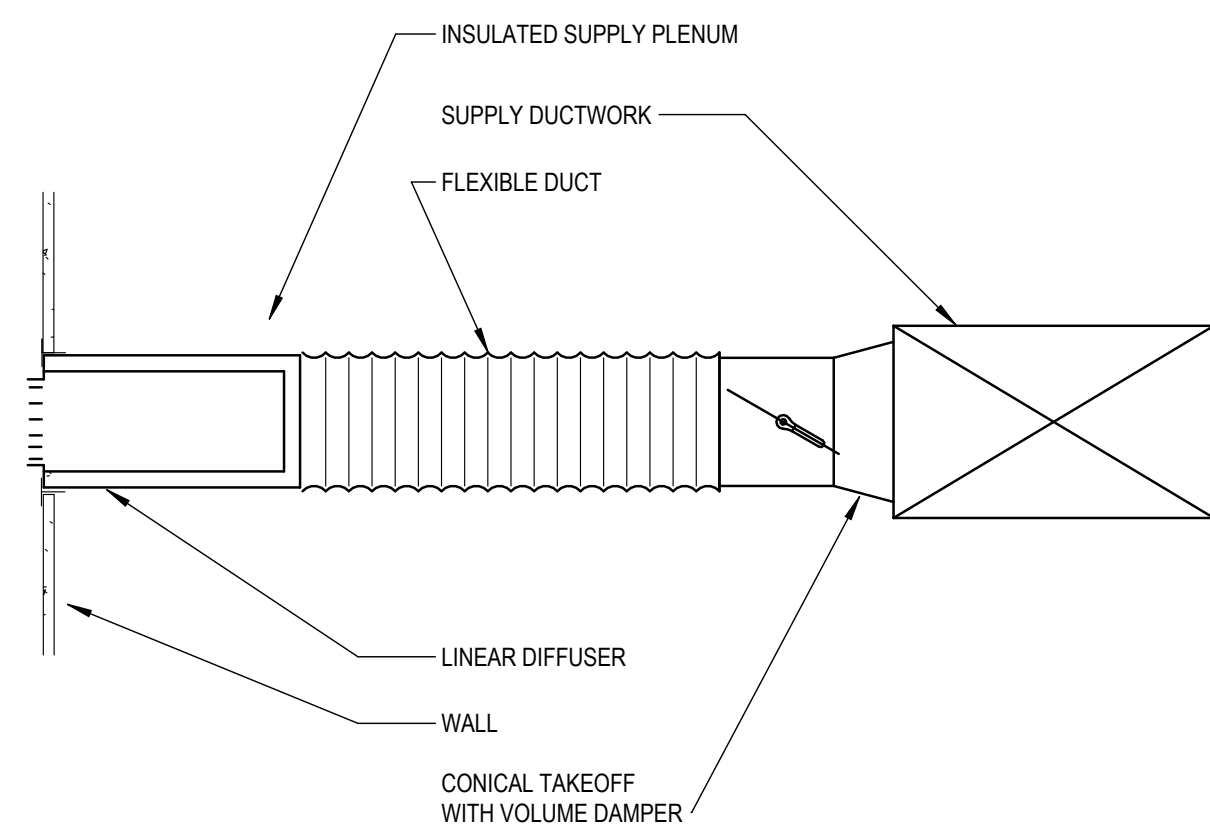
MIDLAND, MICHIGAN

SHEET TITLE
ENLARGED MECHANICAL PLAN

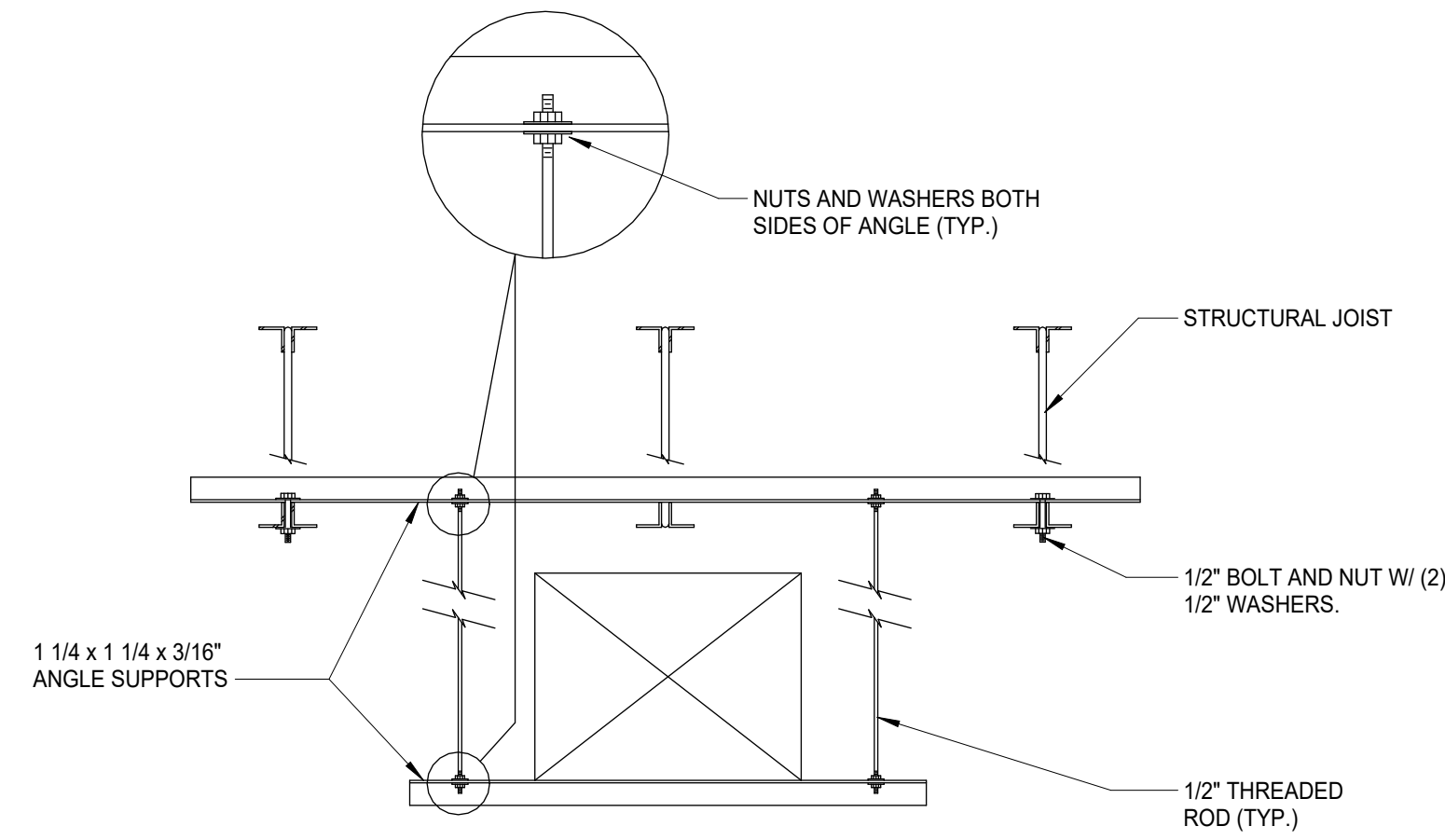
PROJECT NUMBER 25-0546-0295	SHEET NUMBER M3.1
PROJECT DATE 05/12/26	
CHECKED BY M. LAWREN	

1
ENLARGED HVAC PLAN
 SCALE: 3/8" = 1'-0"

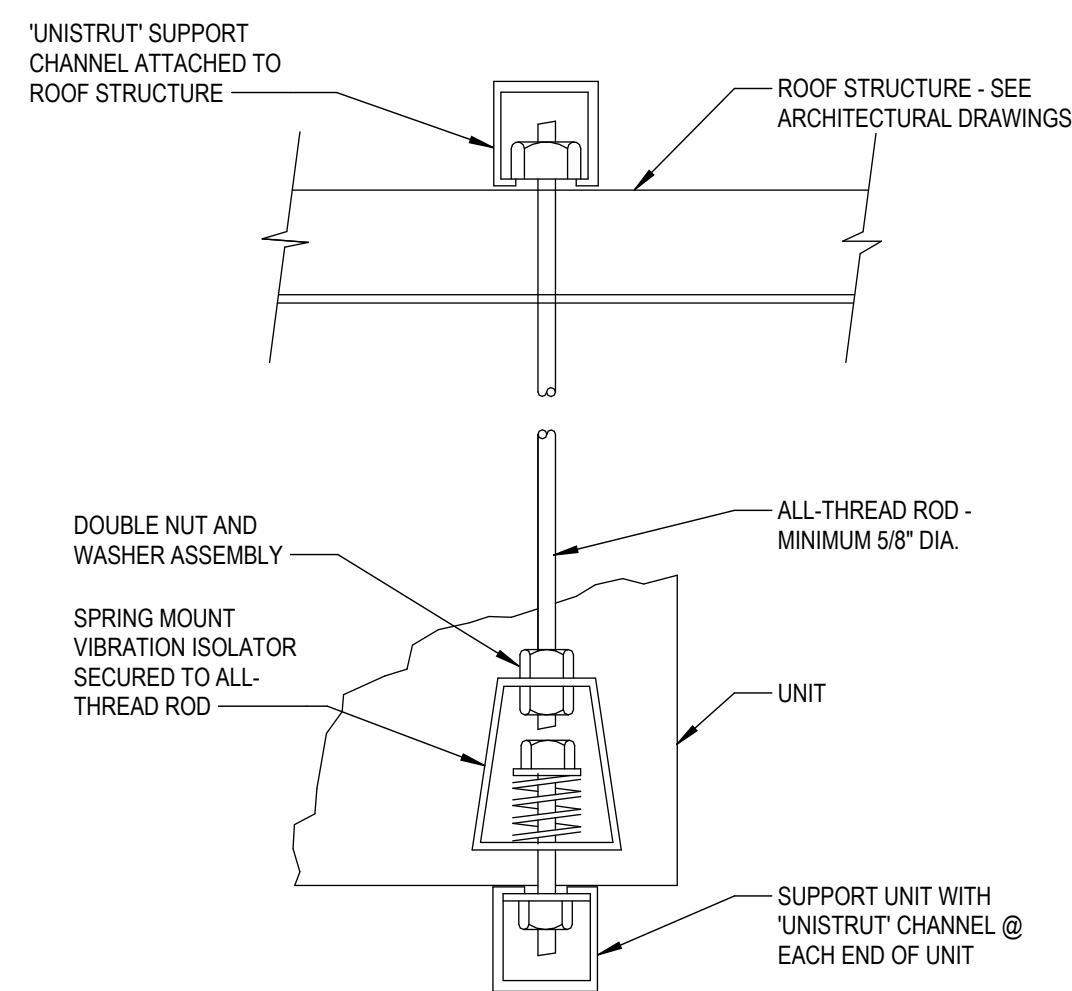
C:\Users\wilson\Documents\2505460295_Currie West Clubhouse Expansion_SMEP_xref_cad\m3.1.dwg 05/12/26 2:14:21 PM WILSON



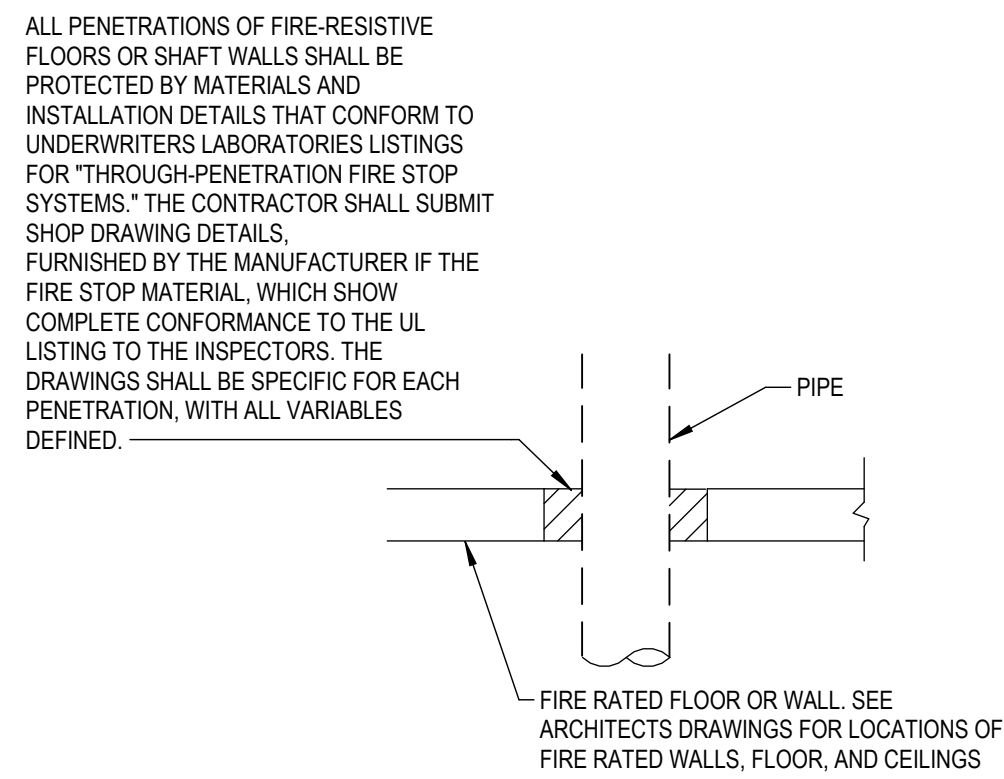
1 LINEAR DIFFUSER DUCT CONNECTION
M7.0 NOT TO SCALE



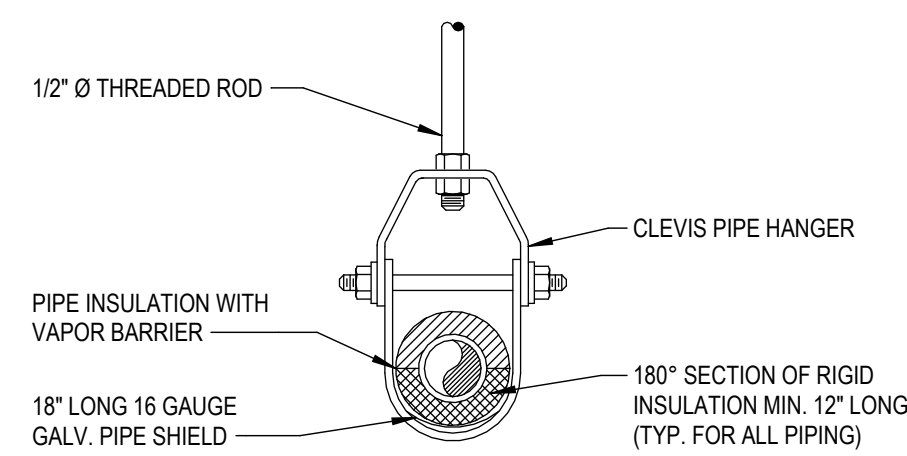
2 DUCT HANGER
M7.0 NOT TO SCALE



3 UNIT MOUNTING DETAIL
M7.0 NOT TO SCALE



4 PIPE PENETRATION DETAIL
M7.0 SCALE: 12" = 1'-0"



5 PIPE SUPPORT DETAIL
M7.0 SCALE: 12" = 1'-0"

FURNACE SCHEDULE											
MARK	MANUFACTURER	MODEL	SUPPLY FAN	COOLING		HEATING		ELECTRICAL			NOTES
			CFM	TOTAL MBH	SENSIBLE MBH	INPUT MBH	OUTPUT MBH	VOLTAGE	PHASE	AMPS	
FURN-1	CARRIER	59TP7A	1200	36.9	24	60	58	115	1	10.1	

- NOTES:**
1. INCLUDE OUTDOOR UNIT 26TPA
 2. INCLUDE INDOOR COIL CVAM
 3. INCLUDE 8" X 8" MARLEY HUA DUCT HEATER TO PREHEAT OUTDOOR AIR. MIXED AIR TEMPERATURE SENSOR TO BE SET TO 60°F. COORDINATE DUCT HEATER WITH ELECTRICAL: 3.2 KW HEATING LOAD (AT 0°F OUTDOOR AIR TEMPERATURE), 208 V, 1 PHASE.

ELECTRIC UNIT HEATER SCHEDULE							
MARK	MANUFACTURER	MODEL	CFM	CAPACITY	ELECTRICAL		
					VOLTS	PHASE	MCA
UH-1	MARLEY ENGINEERED PRODUCTS	QFF	150 CFM	2 KW	208 V	1	9.8

- NOTES:**
1. UNIT TEMP TO BE SET TO 50°F.
 2. INCLUDE DISCONNECT.
 3. WHITE FINISH.

GRILLE, REGISTER & DIFFUSER SCHEDULE								
MARK	MANUFACTURER	MODEL	NECK SIZE	LENGTH	SLOTS	MOUNTING	MATERIAL	NOTES
RG-1	PRICE	535	12" X 8"	14"	-	SURFACE	STEEL	COORDINATE FINISH WITH ARCH
SD-1	PRICE	SD8150	10"	48"	4	SURFACE	STEEL	COORDINATE FINISH WITH ARCH

ISSUED FOR BID	05/12/26	
FINAL OWNER REVIEW	04/30/26	
NO.	REVISION	DATE



WTA ARCHITECTS
100 S. Jefferson Ave., Suite 601
Saginaw, Michigan 48607
989 752 8107
WTAARCH.COM
COPYRIGHT ©

PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

MIDLAND, MICHIGAN

SHEET TITLE
DETAILS & SCHEDULES

PROJECT NUMBER 25-0546-0295	SHEET NUMBER M7.0
PROJECT DATE 05/12/26	
CHECKED BY M. LAWREN	

CIRCUIT CONDUIT & CONDUCTOR SCHEDULE

FUSE/CIRCUIT BREAKER - AMP/POLE	PHASE/NEUTRAL (NOTE 3)	GROUND	CONDUIT
15A/1P & 20A/1P	2 - 12 AWG	1 - 12 AWG	3/4"
15A/2P & 20A/2P	2 OR 3 - 12 AWG	1 - 12 AWG	3/4"
15A/3P & 20A/3P	3 OR 4 - 12 AWG	1 - 12 AWG	3/4"
25A/1P & 30A/1P	2 - 10 AWG	1 - 10 AWG	3/4"
25A/2P & 30A/2P	2 OR 3 - 10 AWG	1 - 10 AWG	3/4"
25A/3P & 30A/3P	3 OR 4 - 10 AWG	1 - 10 AWG	3/4"
35A/1P & 40A/1P	2 - 8 AWG	1 - 10 AWG	3/4"
35A/2P & 40A/2P	2 OR 3 - 8 AWG	1 - 10 AWG	3/4"
35A/3P & 40A/3P	3 OR 4 - 8 AWG	1 - 10 AWG	3/4"
40A/1P & 45A/1P	2 - 8 AWG	1 - 10 AWG	3/4"
40A/2P & 45A/2P	2 OR 3 - 8 AWG	1 - 10 AWG	3/4"
40A/3P & 45A/3P	3 OR 4 - 8 AWG	1 - 10 AWG	3/4"
60A/1P	2 - 6 AWG	1 - 10 AWG	3/4"
60A/2P	2 OR 3 - 6 AWG	1 - 10 AWG	3/4"
60A/3P	3 OR 4 - 6 AWG	1 - 10 AWG	1"
70A/1P	2 - 4 AWG	1 - 8 AWG	1"
70A/2P	2 OR 3 - 4 AWG	1 - 8 AWG	1"
70A/3P	3 OR 4 - 4 AWG	1 - 8 AWG	1 1/4"
80A/2P	2 OR 3 - 4 AWG	1 - 8 AWG	1"
80A/3P	3 OR 4 - 4 AWG	1 - 8 AWG	1 1/4"
90A/2P	2 OR 3 - 3 AWG	1 - 8 AWG	1 1/4"
90A/3P	3 OR 4 - 3 AWG	1 - 8 AWG	1 1/4"
100A/2P	2 OR 3 - 3 AWG	1 - 8 AWG	1 1/4"
100A/3P	3 OR 4 - 3 AWG	1 - 8 AWG	1 1/4"
110A/2P	2 OR 3 - 2 AWG	1 - 6 AWG	1 1/4"
110A/3P	3 OR 4 - 2 AWG	1 - 6 AWG	1 1/4"
125A/2P	2 OR 3 - 1 AWG	1 - 6 AWG	1 1/4"
125A/3P	3 OR 4 - 1 AWG	1 - 6 AWG	1 1/2"
150A/2P	2 OR 3 - 1/0 AWG	1 - 6 AWG	1 1/2"
150A/3P	3 OR 4 - 1/0 AWG	1 - 6 AWG	2"
175A/2P	2 OR 3 - 2/0 AWG	1 - 6 AWG	2"
175A/3P	3 OR 4 - 2/0 AWG	1 - 6 AWG	2"
200A/2P	2 OR 3 - 3/0 AWG	1 - 6 AWG	2"
200A/3P	3 OR 4 - 3/0 AWG	1 - 6 AWG	2"
225A/2P	2 OR 3 - 4/0 AWG	1 - 4 AWG	2"
225A/3P	3 OR 4 - 4/0 AWG	1 - 4 AWG	2 1/2"
250A/2P	2 OR 3 - 250 MCM	1 - 4 AWG	2 1/2"
250A/3P	3 OR 4 - 250 MCM	1 - 4 AWG	3"
300A/2P	2 OR 3 - 350 MCM	1 - 4 AWG	3"
300A/3P	3 OR 4 - 350 MCM	1 - 3 AWG	3"
350A/2P	2 OR 3 - 500 MCM	1 - 3 AWG	3 1/2"
350A/3P	3 OR 4 - 500 MCM	1 - 3 AWG	3 1/2"
400A/2P	2 OR 3 - 500 MCM	1 - 3 AWG	3 1/2"
400A/3P	3 OR 4 - 500 MCM	1 - 3 AWG	3 1/2"

NOTES:
 1. PROVIDE CIRCUIT CONDUCTOR AND CONDUIT SIZES INDICATED ABOVE UNLESS OTHERWISE NOTED.
 2. CONDUCTOR SIZING BASED UPON 75C THWN INSULATED COPPER CONDUCTORS.
 3. FOR TWO AND THREE POLE CIRCUITS PROVIDE NEUTRAL CONDUCTOR IF REQUIRED BY EQUIPMENT SERVED.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, 18" A.F.F. TO TOP
	DUPLEX RECEPTACLE GFI, 18" A.F.F. TO TOP
	DUPLEX RECEPTACLE, CEILING MOUNTED
	DUPLEX RECEPTACLE GFI, CEILING MOUNTED
	DUPLEX RECEPTACLE USB, 18" A.F.F. TO TOP
	DUPLEX RECEPTACLE, 6" ABOVE COUNTER
	DUPLEX RECEPTACLE, GFI, 6" ABOVE COUNTER
	DUPLEX RECEPTACLE, FLOOR MOUNTED
	DUPLEX RECEPTACLE GFI, FLOOR MOUNTED
	SPECIALTY OUTLET, SEE DRAWINGS W/ MFG HT
	QUAD RECEPTACLE, 18" A.F.F. TO TOP
	QUAD RECEPTACLE GFI, 18" A.F.F. TO TOP
	QUAD RECEPTACLE, CEILING MOUNTED
	QUAD RECEPTACLE GFI, CEILING MOUNTED
	MOTOR SWITCH
	OVERHEAD DOOR 3-BUTTON SWITCH, OPEN-CLOSE-STOP
	POWER POLE
	JUNCTION BOX
	FURNITURE FEED
	MOTOR
	NON-FUSED DISCONNECT
	COMBINATION MOTOR STARTER/ DISCONNECT
	FUSED DISCONNECT
	MANUAL MOTOR STARTER
	MOTOR STARTER
	SURFACE MOUNTED PANEL BOARD
	RECESSED PANEL BOARD
	SWITCH, SINGLE POLE, 48" A.F.F. TO TOP UNO
	SWITCH, 3-POLE, 48" A.F.F. TO TOP UNO
	SWITCH, 4-POLE, 48" A.F.F. TO TOP UNO
	SWITCH, WALL BOX DIMMER, 48" A.F.F. TO TOP UNO
	SWITCH, LOW VOLTAGE, 48" A.F.F. TO TOP UNO (VERIFY W/ FIXTURE)
	SWITCH, LOW VOLTAGE DIMMER, 48" A.F.F. TO TOP UNO (VERIFY W/ FIXTURE)
	SWITCH, FUSED; 125V, SINGLE POLE, DUAL ELEMENT PLUG FUSE
	SWITCH, KEYED, 48" A.F.F. TO TOP UNO
	SWITCH, PILOT LIGHT, 48" A.F.F. TO TOP UNO
	SWITCH, TIMER, 48" A.F.F. TO TOP UNO
	SWITCH, MULTI-TECH OCCUPANCY SENSOR, WALL
	SWITCH, MULTI-TECH OCCUPANCY SENSOR, CEILING
	SWITCH, EXTERIOR PHOTOCELL
	POWER PACK FOR OCCUPANCY SENSORS
	CONTROLS: SPEAKER (SEE SCHEDULE)
	CONTROLS: ADA DOOR CONTROL OPENER, COORDINATE WITH DOOR REQUIREMENTS
	CONTROLS: ADA DOOR CONTROL OPENER, COORDINATE WITH SECURITY, AUTO AND MANUAL CONTROL
	SECURITY: PAN - TILT - ZOOM CAMERA
	SECURITY: PUSH BUTTON
	SECURITY: CARD READER
	SECURITY: DOOR CONTACT
	LUMINAIRE: TRACK LIGHT W/ TYPE, REFER TO SCHEDULE
	LUMINAIRE: RECESSED DOWNLIGHT OR PENDANT W/ TYPE, REFER TO SCHEDULE
	LUMINAIRE: SURFACE OR RECESSED W/ TYPE, REFER TO SCHEDULE
	LUMINAIRE: ON EMERGENCY, LIFE SAFETY, OR LOCAL LIGHTING CIRCUIT W/ TYPE, REFER TO SCHEDULE
	EXIT SIGN: CEILING MOUNTED W/ TYPE, SEE SCHEDULE
	EXIT SIGN: WALL MOUNTED W/ TYPE, SEE SCHEDULE
	EM LIGHTS: WALL MOUNTED UNO, REFER TO SCHEDULE
	REMOTE HEADS: WALL MOUNTED, REFER TO SCHEDULE
	TV CONNECTION: 96" TO TOP, COAX CONNECTION, UNO
	VOICE/ DATA OUTLET: 18" TO TOP, UNO
	VOICE/ DATA OUTLET: CEILING MOUNTED, UNO
	VOICE/ DATA TV OUTLET: FLOOR MOUNTED, UNO
	TELEPHONE: 18" TO TOP, UNO
	DATA/ TELEPHONE: 18" TO TOP, UNO
	FIRE: MANUAL PULL STATION, WALL MOUNTED, 48" AFF TO TOP UNO
	FIRE: AUDIBLE AND VISUAL ANNUNCIATION, WALL MOUNTED, 8'-0" AFF TO TOP UNO
	FIRE: VISUAL ANNUNCIATION, WALL MOUNTED, 8'-0" AFF TO TOP UNO
	FIRE: AUDIBLE ANNUNCIATION, WALL MOUNTED, 8'-0" AFF TO TOP UNO
	FIRE: AUDIBLE AND VISUAL ANNUNCIATION, CEILING MOUNTED
	FIRE: VISUAL ANNUNCIATION, CEILING MOUNTED
	FIRE: AUDIBLE ANNUNCIATION, CEILING MOUNTED
	FIRE: SMOKE DETECTOR, CEILING
	FIRE: HEAT DETECTOR, CEILING
	FIRE: SMOKE AND HEAT DETECTOR
	FIRE: DUCT SMOKE DETECTOR, CEILING, PROVIDED / INSTALLED BY EC, MOUNTED BY MC, UNO
	FIRE ALARM: REMOTE TEST STATION
	FIRE: TAMPER SWITCH
	FIRE: FLOW SWITCH
	FIRE: MAGNETIC DOOR HOLD
	FIRE: DOOR LOCK RELEASE
	FIRE: PRESSURE SWITCH
	HOME RUN W/ DIRECTION
	ELECTRICAL CIRCUIT
	UNDERGROUND ELECTRICAL W/ INDICATOR
	SITE: LIGHT, POLE, AND BASE
	TRANSFORMER W/ LABEL
	DEVICE OR EQUIPMENT CONNECTION

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	GFI	GROUND FAULT PROTECTION	PH	PHASE
ALT	ALTERNATE	HH	HAND HOLE	PC	PHOTO-SWITCH
AL	ALUMINUM	HOA	HAND-OFF-AUTO SELECTOR SWITCH	P	POLE
AWG	AMERICAN WIRE GAUGE	IU	INDOOR UNIT	PLC	PROGRAMMABLE LOGIC CONTROLLER
AMP OR A	AMPERES	IMC	INTERMEDIATE METAL CONDUIT	PB	PULL BOX
ATS	AUTOMATIC TRANSFER	JB	JUNCTION BOX	PTT	PUSH-TO-TEST
BLDG	BUILDING	KVA	KILO VOLT-AMPERES	RMC	RIGID METAL COUNT
BMS	BUILDING MANAGEMENT SYSTEM	KVAR	KILO VOLT-AMPERES REACTIVE	SPEC	SPECIFICATION
CKT	CIRCUIT	LC	LIGHTING CONTRACTOR	SW	SWITCH
CB	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER	SWD	SWITCHING DUTY
C	CONDUIT	MDP	MAIN DISTRIBUTOR PANEL	TEL	TELEPHONE
CLG	CEILING	MLO	MAIN LUGS ONLY	TYP	TYPICAL
CP	CONTROL PANEL	MSB	MAIN SWITCH BOARD	UL	UNDERWRITERS LABORATORY
CU	COPPER	MH	MAN HOLE	U.N.O.	UNLESS NOTED OTHERWISE
D	DATA	MFR	MANUFACTURER'S	VFC	VARIABLE FREQUENCY CONTROLLER
DS	DISCONNECT SWITCH	MCC	MOTOR CONTROL CENTER	VFD	VARIABLE FREQUENCY DRIVE
DWG	DRAWING(S)	MTD	MOUNTED	V	VOLT
EA	EACH	NEC	NATIONAL ELECTRIC CODE	W	WATT
EMT	ELECTRICAL METALLIC TUBING	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	WP	WEATHER PROOF
EX	EXISTING	N.L.	NIGHT LIGHT	W	WIRE
EXT	EXTERNAL	NC	NORMALLY CLOSED CONTACT	W/	WITH
FIN. FLR.	FINISH FLOOR	NO	NORMALLY OPEN CONTACT	XF/ XFMR	TRANSFORMER
FACP	FIRE ALARM CONTROL PANEL	NOT TO SCALE	NOT TO SCALE	XXAF	XX AMPERE FUSE
FF	FURNITURE FEED	OU	OUTDOOR UNIT	XXAS	XX AMPERE SWITCH
FT	FOOT, FEET	O.D.	OUTSIDE DIAMETER	XP	X POLES
GRC	GALVANIZED RIGID CONDUIT	OL	OVERLOADS-THERMAL		
GND	GROUND	PNL	PANEL W/ INDICATION		
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	Ø	PHASE		

GENERAL NOTES

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST ACCEPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL STATE AND LOCAL CODES.
- COORDINATE THE INSTALLATION OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS WITH ARCHITECTURAL AND MECHANICAL PLANS, SPECIFICATIONS AND EQUIPMENT DRAWINGS. PROVIDE ALL NECESSARY EQUIPMENT POWER AND CONTROL CONNECTIONS NOT PROVIDED BY OTHERS WHETHER INDICATED ON THE DRAWINGS OR NOT.
- UNLESS OTHERWISE NOTED, WHERE ELECTRICAL DEMOLITION WORK IS SHOWN, REMOVE ALL CONDUCTOR AND EXPOSED CONDUITS FROM EQUIPMENT OR OUTLET LOCATION BACK TO THE POWER SOURCE(S) FOR THE CIRCUIT.
- SEAL ALL WALL AND FLOOR PENETRATIONS TO MAINTAIN RATING.
- BACK-TO-BACK OR THROUGH THE WALL BOXES SHALL NOT BE USED.
- ALL LOW VOLTAGE CONDUCTORS SHALL BE STRANDED COPPER.
- SPLICE CABLES OR CONDUCTORS IN OUTLET BOXES, DEVICE BOXES, PULL BOXES, JUNCTION BOXES. DO NOT SPLICE CABLES OR CONDUCTORS IN CONDUIT BODIES.
- RECEPTACLES INDICATED AS GROUND FAULT CIRCUIT INTERRUPTER (GFI) TYPE MUST BE GFI RECEPTACLE, NO FEED THROUGH.
- BRANCH CIRCUITS FROM CIRCUIT BREAKER TYPE DISTRIBUTION EQUIPMENT WHICH SUPPLY MOTOR LOADS THAT ARE LESS THAN 6.0 AMP SHALL BE PROTECTED BY A 15 AMP CIRCUIT BREAKER.
- FINAL CONNECTIONS TO ITEMS SUBJECT TO VIBRATION SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL NOT BE USED AS A GROUNDING CONDUCTOR. PROVIDE A SEPARATE GREEN GROUNDING CONDUCTOR.
- IN THE EVENT OF CONFLICTS BETWEEN THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS OR WITHIN THE DRAWINGS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL BE ASSUMED TO BE CORRECT. REFER UNCERTAINTIES IN REQUIREMENTS TO THE ENGINEER FOR CLARIFICATION.
- ALL BELOW GRADE LOCATIONS WITHIN BUILDINGS ARE DAMP LOCATIONS UNLESS OTHERWISE NOTED.
- 120V AC CONTROL WIRING ASSOCIATED WITH MOTOR CONTROL CIRCUITS MAY BE RUN IN THE SAME RACEWAY WITH MOTOR POWER WIRING FOR CONSTANT SPEED MOTORS LESS THAN 30HP. FOR MOTORS 30HP AND GREATER OR FOR MOTORS POWERED FROM VARIABLE FREQUENCY CONTROLLERS, SEPARATE RACEWAYS SHALL BE USED FOR POWER AND CONTROL CONDUCTORS.
- 120/240V CIRCUIT WIRING FOR ANY ROOM OR AREA MAY BE GROUPED INTO RACEWAYS AS REQUIRED UNLESS SEPARATE RACEWAYS ARE REQUIRED BY THE NEC. COMPLY WITH NEC REQUIREMENTS FOR CONDUCTOR DERATING.
- CONDUIT PENETRATIONS OF FLOORS, LOWER LEVEL EXTERIOR WALLS OR WETWELL WALLS SHALL BE SLEEVED AND SEALED WITH LINKSEAL. SEE DETAILS ON MECHANICAL DRAWINGS.
- IF COMPLIANCE WITH TWO OR MORE DIFFERING STANDARDS, REQUIREMENTS, DRAWINGS OR SPECIFICATIONS, OR ANY COMBINATION THEREOF, IS SPECIFIED AND THESE ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. THE MOST STRINGENT REQUIREMENT WILL BE THE BETTER QUALITY OR GREATER QUANTITY OF WORK, AND WILL TYPICALLY BE THE MORE EXPENSIVE OPTION. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
- THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
- DESIGN DOCUMENTS MUST BE REPRODUCED IN THEIR ENTIRETY, INCLUDING ALL PLANS, SPECIFICATIONS, AND FRONT END DOCUMENTS.
- ONLY COMPLETE DOCUMENT SETS ARE TO BE DISTRIBUTED TO SUBCONTRACTORS AND SUPPLIERS OF THE CONTRACTOR DURING BIDDING OR CONSTRUCTION.
- FAILURE TO REVIEW AND COMPLY WITH A FULL SET OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS A VALID REASON FOR FAILURE TO MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
- ALL ABOVE CEILING SYSTEMS AND COMPONENTS (INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC.) SHALL BE COORDINATED SUCH THAT THE SYSTEMS ARE PROPERLY INTEGRATED IN THE SPACE PROVIDED ABOVE CEILING AT THE CEILING HEIGHTS NOTED. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO COORDINATE PATHWAYS WITHIN THE SPACE PROVIDED. CEILING HEIGHTS WILL NOT BE MODIFIED.
- EQUIPMENT SHALL BE MOUNTED 6'-0" AWAY FROM HEAT PRODUCING EQUIPMENT. U.N.O.

	ISSUED FOR BID	05/12/26
	FINAL OWNER REVIEW	04/30/26
NO.	REVISION	DATE

WAK
 WILLIAM A. KIBBE & ASSOCIATES, INC.
 ENGINEERS | ARCHITECTS | SURVEYORS

WTAARCH.COM

WTA ARCHITECTS

100 S. Jefferson Ave., Suite 601
 Saginaw, Michigan 48607
 989 752 8107 COPYRIGHT ©

PROJECT TITLE
 ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

MIDLAND, MICHIGAN

SHEET TITLE
GENERAL NOTES

PROJECT NUMBER 25-0546-0295	SHEET NUMBER
PROJECT DATE 05/12/26	E0.0
CHECKED BY R. KAIN	

DIVISION 26000 - ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 SUBMITTALS

- A. PRODUCT DATA FOR:
 - 1. WIRING DEVICES
 - 2. LIGHTING FIXTURES
 - 3. POWER DISTRIBUTION EQUIPMENT
 - 4. LIGHTING CONTROLS

1.3 QUALITY ASSURANCE

- A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- B. COMPLY WITH UL 487 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT.
- C. COMPLY WITH NFPA 70
- D. COMPLY WITH NECA 1, INCLUDING THE MOUNTING HEIGHTS LISTED IN THAT STANDARD, UNLESS OTHERWISE NOTED.
- E. COMPLY WITH APPLICABLE PORTIONS OF NECA1, NEMA PB 1.1, AND NEMA PB 2.1 FOR INSTALLATION OF ENCLOSED SWITCHES AND CIRCUIT BREAKERS.
- F. SOURCE LIMITATIONS: OBTAIN EACH TYPE OF PRODUCT, EQUIPMENT, AND WIRING DEVICES AND ASSOCIATED WALL PLATE THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER, SO FAR AS THEY ARE AVAILABLE. OBTAIN ALL PRODUCTS, EQUIPMENT, AND WIRING DEVICES AND ASSOCIATED WALL PLATES FROM A SINGLE MANUFACTURER AND ONE SOURCE.

1.4 COORDINATION

- A. COORDINATE ARRANGEMENT, MOUNTING, AND SUPPORT OF ELECTRICAL EQUIPMENT:
 - 1. TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS THAT REDUCE HEADROOM ARE INDICATED.
 - 2. TO PROVIDE FOR EASE OF DISCONNECTING THE EQUIPMENT WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS.
 - 3. TO ALLOW RIGHT OF WAY FOR PIPING AND CONDUIT INSTALLED AT REQUIRED SLOPE.
 - 4. SO CONNECTING RACEWAYS, CABLES, WIREWAYS, CABLE TRAYS, AND BUSWAYS WILL BE CLEAR OF OBSTRUCTIONS AND OF THE WORKING AND ACCESS SPACE OF OTHER EQUIPMENT.
- B. COORDINATE IDENTIFICATION NAMES, ABBREVIATIONS, COLORS, AND OTHER FEATURES WITH REQUIREMENTS IN THE CONTRACT DOCUMENTS, SHOP DRAWINGS, MANUFACTURER'S WIRING DIAGRAMS, AND THE OPERATION AND MAINTENANCE MANUAL, AND WITH THOSE REQUIRED BY CODES, STANDARDS, AND 29 CFR 1910.145. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
- C. RECEPTACLES FOR OWNER-FURNISHED EQUIPMENT: MATCH PLUG CONFIGURATIONS.

PART 2 - PRODUCTS

2.1 GROUNDING PRODUCTS

- A. BONDING CONDUCTOR: NO. 6 AWG INSULATED COPPER, STRANDED CONDUCTOR.
- B. WELDED CONNECTORS: EXOTHERMIC-WELDING KITS OF TYPES RECOMMENDED BY KIT MANUFACTURER FOR MATERIALS BEING JOINED AND INSTALLATION CONDITIONS.
- C. GROUND RODS: COPPER-CLAD STEEL 3/4 INCH BY 10 FEET.

2.2 RACEWAYS AND WIREWAYS

- A. RACEWAY MATERIALS:
 - 1. RIGID STEEL CONDUIT (RMC): ANSI C80.1.
 - 2. EMT: ANSI C80.3.
 - 3. LFMC: FLEXIBLE STEEL CONDUIT WITH PVC JACKET.
 - 4. FITTINGS FOR CONDUIT (INCLUDING ALL TYPES AND FLEXIBLE AND LIQUIDTIGHT), EMT, AND CABLE, NEMA FB 1: LISTED FOR TYPE AND SIZE RACEWAY WITH WHICH USED, AND FOR APPLICATION AND ENVIRONMENT IN WHICH INSTALLED.
 - 5. SURFACE RACEWAY: WIREMOLD SERIES 500/700 ONE PIECE RACEWAY
 - 6. METAL WIREWAYS DESCRIPTION: SHEET METAL, SIZED AND SHAPED AS INDICATED, NEMA 250, TYPE 1 OR 3R, UNLESS OTHERWISE INDICATED. WIREWAY COVERS: SCREW-COVER TYPE OR AS INDICATED.
 - 7. SHEET METAL OUTLET AND DEVICE BOXES: NEMA OS 1.
 - 8. SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA OS 1.
 - 9. CABINETS:
 - A. NEMA 250, TYPE 1, GALVANIZED-STEEL BOX WITH REMOVABLE INTERIOR PANEL AND REMOVABLE.
 - B. HINGED DOOR IN FRONT COVER WITH FLUSH LATCH AND CONCEALED HINGE.
 - C. KEY LATCH TO MATCH PANELBOARDS.

2.3 CABLES AND WIRING MATERIALS

- A. CONDUCTOR INSULATION: COMPLY WITH NEMA WC 70 FOR TYPES THW AND THHN-THWN.
- B. MULTICONDUCTOR CABLE: COMPLY WITH NEMA WC 70 FOR METAL-CLAD CABLE, TYPE MC WITH GROUND WIRE.
- C. FEEDERS: COPPER, STRANDED
- D. BRANCH CIRCUITS, COPPER, STRANDED, MINIMUM 12 AWG.
- E. EXPOSED OR CONCEALED FEEDERS AND BRANCH CIRCUITS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
- F. CLASS 1 CONTROL CIRCUITS: TYPE THHN-THWN, IN RACEWAY.
- G. CLASS 2 CONTROL CIRCUITS: TYPE THHN-THWN, IN RACEWAY, OR POWER-LIMITED CABLE, CONCEALED IN BUILDING FINISHES.

2.4 IDENTIFICATION MATERIALS

- A. COLOR-CODING CONDUCTOR TAPE: COLORED, SELF-ADHESIVE VINYL-TAPE NOT LESS THAN 3 MILS THICK BY 1 TO 2 INCHES WIDE
- B. MARKER TAPES: VINYL OR VINYL-CLOTH, SELF-ADHESIVE WRAPAROUND TYPE, WITH CIRCUIT IDENTIFICATION LEGEND MACHINE PRINTED BY THERMAL TRANSFER OR EQUIVALENT PROCESS.
- C. SELF-ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL, ADHESIVE BACKED, WITH WHITE LETTERS ON A DARK-GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8 INCH.

2.5 WIRING DEVICES

- A. PROVIDE PRODUCTS BY ONE OF THE FOLLOWING MANUFACTURERS:
 - 1. COOPER WIRING DEVICES: A DIVISION OF COOPER INDUSTRIES, INC.
 - 2. HUBBELL INCORPORATED: WIRING DEVICE-KELLEMS.
 - 3. LEVITON MFG. COMPANY, INC.
 - 4. PASS & SEYMOUR/LEGRAND: WIRING DEVICES & ACCESSORIES.
- B. GFCI DUPLEX RECEPTACLES: STRAIGHT BLADE, FEED-THROUGH TYPE, COMPLY WITH NEMA WD 1, NEMA WD 6, UL 498, AND UL 943, CLASS A, AND INCLUDE INDICATOR LIGHT THAT IS LIGHTED WHEN DEVICE IS TRIPPED.
- C. SNAP SWITCHES: COMPLY WITH NEMA WD 1 AND UL 20, 120/277V, 20A.
- D. WALL PLATES: SINGLE AND COMBINATION TYPES TO MATCH CORRESPONDING WIRING DEVICES.
 - 1. PLATE-SECURING SCREWS: METAL WITH HEAD COLOR TO MATCH PLATE FINISH.
 - 2. MATERIAL: SMOOTH, HIGH-IMPACT THERMOPLASTIC.
 - 3. WET OR DAMP-LOCATION, WEATHERPROOF COVER PLATES: NEMA 250, COMPLYING WITH TYPE 3R WEATHER-RESISTANT, DIE-CAST ALUMINUM WITH LOCKABLE COVER.

2.6 POWER DISTRIBUTION EQUIPMENT

- A. PROVIDE PRODUCTS BY ONE OF THE FOLLOWING MANUFACTURERS:
 - 1. SQUARE-D/GROUP SCHNEIDER COMPANY
 - 2. EATON CORPORATION - CUTLER HAMMER.
- B. FUSIBLE SWITCH, 600A AND SMALLER: NEMA KS 1, TYPE HD, WITH CLIPS OR BOLT PADS TO ACCOMMODATE SPECIFIED FUSES, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.
- C. MANUAL MOTOR CONTROLLER: NEMA ICS 2, GENERAL PURPOSE, CLASS A WITH "QUICK-MAKE, QUICK-BREAK" TOGGLE OR PUSHBUTTON ACTION, AND MARKED TO SHOW WHETHER LIMIT IS "OFF," "ON," OR "TRIPPED."
 - 1. OVERLOAD RELAY: AMBIENT-COMPENSATED TYPE WITH INVERSE-TIME CURRENT CHARACTERISTICS AND NEMA ICS 2, CLASS 10 TRIPPING CHARACTERISTICS. RELAYS SHALL HAVE HEATERS AND SENSORS IN EACH PHASE, MATCHED TO NAMEPLATE, FULL-LOAD CURRENT OF SPECIFIC MOTOR TO WHICH THEY CONNECT AND SHALL HAVE APPROPRIATE ADJUSTMENT FOR DUTY CYCLE.
- D. PANELBOARDS:
 - 1. COMPLY WITH NEMA PB 1 AND NFPA 70
 - 2. RATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION:
 - A. INDOOR DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1
 - B. OUTDOOR LOCATIONS: NEMA 250, TYPE 3R
 - C. WET OR DAMP INDOOR LOCATIONS: NEMA 250, TYPE 4
 - D. INDOOR LOCATIONS SUBJECT TO DUST, FALLING DIRT, AND DRIPPING NONCORROSIVE LIQUIDS: NEMA 250, TYPE 12
 - 3. INCOMING MAIN LOCATIONS: CONVERTIBLE BETWEEN TOP AND BOTTOM.
 - 4. PHASE, NEUTRAL, AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
 - 5. CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES.
 - A. MATERIAL: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
 - B. MAIN AND NEUTRAL LUGS: MECHANICAL TYPE, WITH A LUG ON THE NEUTRAL BAR FOR EACH POLE IN THE PANELBOARD.
 - C. GROUND LUGS AND BUS-CONFIGURED TERMINATORS: MECHANICAL TYPE, WITH A LUG ON THE BAR FOR EACH POLE IN THE PANELBOARD.
 - D. FEED-THROUGH LUGS: MECHANICAL TYPE, SUITABLE FOR USE WITH CONDUCTOR MATERIAL. LOCATE AT OPPOSITE END OF BUS FROM INCOMING LUGS OR MAIN DEVICE.
 - E. SUBFEED (DOUBLE) LUGS: MECHANICAL TYPE SUITABLE FOR USE WITH CONDUCTOR MATERIAL. LOCATE AT SAME END OF BUS AS INCOMING LUGS OR MAIN DEVICE.
 - 6. TRANSFORMERS:
 - 1. COMPLY WITH 10 CFR 431 (DOE 2016) EFFICIENCY LEVELS.
 - 2. MARKED AS COMPLIANT WITH DOE 2016 EFFICIENCY LEVELS BY AN NRTL.
 - 3. COIL MATERIAL: COPPER.
 - 4. ENCLOSURE: VENTILATED, NEMA 250, TYPE 2, CORE AND COIL SHALL BE ENCAPSULATED WITHIN RESIN COMPOUND.
 - 5. TAPS FOR TRANSFORMERS: TWO 2.5 PERCENT TAPS ABOVE AND TWO 2.5 PERCENT TAPS BELOW NORMAL FULL CAPACITY.
 - 6. INSULATION CLASS: 220 DEG C. UL-COMPONENT-RECOGNIZED INSULATION SYSTEM WITH A MAXIMUM OF 115 DEG C RISE ABOVE 40 DEG C AMBIENT TEMPERATURE.
 - 7. GROUNDING: PROVIDE GROUND-BAR KIT OR A GROUND BAR INSTALLED ON THE INSIDE OF THE TRANSFORMER ENCLOSURE.

2.7 LIGHTING FIXTURES

- A. SEE LIGHTING FIXTURE SCHEDULE ON THE DRAWINGS FOR PRODUCT SPECIFICATIONS.

2.8 LIGHTING CONTROLS

- A. BASIS OF DESIGN IS WAVELINX PRO BY COOPER LIGHTING SOLUTIONS. ALTERNATES MUST BE REVIEWED FOR APPROVAL DURING BIDDING. SEE REQUIREMENTS OF THE DRAWINGS.

PART 3 - EXECUTION

3.1 COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION

- A. EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS OF BOTH ELECTRICAL EQUIPMENT AND OTHER NEARBY INSTALLATIONS. CONNECT IN SUCH A WAY AS TO FACILITATE FUTURE DISCONNECTING WITH MINIMUM INTERFERENCE WITH OTHER ITEMS IN THE VICINITY.
- B. RIGHT OF WAY: GIVE TO PIPING SYSTEMS INSTALLED AT A REQUIRED SLOPE.

3.2 GROUNDING APPLICATIONS

- A. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS. INSULATION SHALL BE RATED AT 800V OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
- B. CONDUCTORS: INSTALL SOLID CONDUCTOR FOR NO. 10 AWG AND SMALLER, AND STRANDED CONDUCTORS FOR NO. 8 AWG AND LARGER, UNLESS OTHERWISE INDICATED.
- C. METAL POLES FOR SIGNS SUPPORTING OUTDOOR LIGHTING FIXTURES: INSTALL GROUNDING ELECTRODE AND A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO GROUNDING CONDUCTOR INSTALLED WITH BRANCH-CIRCUIT CONDUCTORS.

3.3 APPLICATION OF IDENTIFICATION SYSTEMS

- A. BRANCH-CIRCUIT CONDUCTOR IDENTIFICATION: WHERE THERE ARE CONDUCTORS FOR MORE THAN THREE BRANCH CIRCUITS IN SAME JUNCTION OR PULL BOX, USE COLOR-CODING CONDUCTOR TAPE. IDENTIFY EACH UNDERGROUND CONDUCTOR ACCORDING TO SOURCE AND CIRCUIT NUMBER.
- B. EQUIPMENT IDENTIFICATION LABELS: ON EACH UNIT OF EQUIPMENT, INSTALL UNIQUE DESIGNATION LABEL THAT IS CONSISTENT WITH WIRING DIAGRAMS, SCHEDULES, AND OPERATION AND MAINTENANCE MANUAL. APPLY LABELS TO DISCONNECT SWITCHES AND PROTECTION EQUIPMENT, CENTRAL OR SYSTEM. SYSTEMS INCLUDE POWER, LIGHTING, CONTROL, COMMUNICATION, SIGNAL, MONITORING, AND ALARM SYSTEMS UNLESS EQUIPMENT IS PROVIDED WITH ITS OWN IDENTIFICATION.
 - 1. LABELING INSTRUCTIONS:
 - A. INDOOR EQUIPMENT: ADHESIVE FIELD LABEL, UNLESS OTHERWISE INDICATED, PROVIDE A SINGLE LINE OF TEXT WITH 1/2-INCH-HIGH LETTERS ON 1-1/2-INCH-HIGH LABEL WHERE 2 LINES OF TEXT ARE REQUIRED, USE LABELS 2 INCHES HIGH.
 - 2. EQUIPMENT TO BE LABELED:
 - A. PANELBOARDS, ELECTRICAL CABINETS, AND ENCLOSURES.
 - B. ACCESS DOORS AND PANELS FOR CONCEALED ELECTRICAL ITEMS.
 - C. TRANSFORMERS
 - D. DISCONNECT SWITCHES.
 - E. ENCLOSED CIRCUIT BREAKERS.
 - F. MOTOR STARTERS.
 - G. PUSH-BUTTON STATIONS.
 - H. CONTACTORS.
 - I. REMOTE-CONTROLLED SWITCHES, DIMMER MODULES, AND CONTROL DEVICES.
 - J. LIGHTING CONTROL EQUIPMENT.
- C. VERIFY IDENTITY OF EACH ITEM BEFORE INSTALLING IDENTIFICATION PRODUCTS.
- D. LOCATION: INSTALL IDENTIFICATION MATERIALS AND DEVICES AT LOCATIONS FOR MOST CONVENIENT VIEWING WITHOUT INTERFERENCE WITH OPERATION AND MAINTENANCE OF EQUIPMENT.
- E. APPLY IDENTIFICATION DEVICES TO SURFACES THAT REQUIRE FINISH AFTER COMPLETING FINISH WORK.
- F. SELF-ADHESIVE IDENTIFICATION PRODUCTS: CLEAN SURFACES BEFORE APPLICATION, USING MATERIALS AND METHODS RECOMMENDED BY MANUFACTURER OF IDENTIFICATION DEVICE.
- G. SYSTEM IDENTIFICATION COLOR BANDING FOR RACEWAYS AND CABLES: EACH COLOR BAND SHALL COMPLETELY ENIRCLE CABLE OR CONDUIT. PLACE ADJACENT BANDS OF TWO-COLOR MARKINGS IN CONTACT, SIDE BY SIDE. LOCATE BANDS AT CHANGES IN DIRECTION, AT PENETRATIONS OF WALLS AND FLOORS, AT 25-FOOT MAXIMUM INTERVALS IN STRAIGHT RUNS, AND AT 25-FOOT MAXIMUM INTERVALS IN CONGESTED AREAS.
- H. COLOR-CODING FOR PHASE AND VOLTAGE LEVEL IDENTIFICATION, 600V AND LESS: USE THE COLORS LISTED BELOW FOR UNGROUNDED SERVICE, FEEDER, AND BRANCH-CIRCUIT CONDUCTORS.
 - 1. COLOR SHALL BE FIELD APPLIED FOR CONDUCTORS OVER NO. 10 AWG.
 - 2. COLORS FOR 480/277V CIRCUITS:
 - A. PHASE A: BROWN
 - B. PHASE B: ORANGE
 - C. PHASE C: YELLOW
 - 3. COLORS FOR 120/208V CIRCUITS:
 - A. PHASE A: BLACK
 - B. PHASE B: RED
 - C. PHASE C: BLUE
 - 4. COLORS FOR 120/240V CIRCUITS:
 - A. PHASE A: BLACK
 - B. PHASE B: RED
 - 5. FIELD-APPLIED, COLOR-CODING CONDUCTOR TAPE: APPLY IN HALF-LAPPED TURNS FOR A MINIMUM DISTANCE OF 6 INCHES FROM TERMINAL POINTS AND IN BOXES WHERE SPLICES OR TAPS ARE MADE. APPLY LAST TWO TURNS OF TAPE WITH NO TENSION TO PREVENT POSSIBLE UNWINDING. LOCATE BANDS TO AVOID OBSCURING FACTORY CABLE MARKINGS.

3.4 INSTALLATION OF POWER CONDUCTORS AND CABLES

- A. CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
- B. USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY. COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.
- C. USING PULLING MEANS, INCLUDING FISH TABLE, CABLE, ROPE, AND BASKET-WEAVE WIRE/CABLE GRIPS, THAT WILL NOT DAMAGE CABLES OR RACEWAY.
- D. WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 12 INCHES OF SLACK.

3.5 RACEWAY INSTALLATION AND APPLICATION

- A. COMPLY WITH NECA 1 FOR INSTALLATION REQUIREMENTS APPLICABLE TO PRODUCTS SPECIFIED IN PART 2 EXCEPT WHERE REQUIREMENTS ON DRAWINGS OR IN THIS ARTICLE ARE STRICTER.
- B. SUPPORT RACEWAYS PER NEC - NFPA-70.
- C. COMPLY WITH THE FOLLOWING INDOOR APPLICATIONS, UNLESS OTHERWISE INDICATED:
 - 1. EXPOSED ON ACOUSTICAL BLOCK: METAL WIREMOLD.
 - 2. EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT ABOVE 48"
 - 3. CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.
 - 4. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC.
 - 5. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
- D. MINIMUM RACEWAY SIZE: 3/4-INCH TRADE SIZE.
- E. RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.
- F. RIGID AND INTERMEDIATE STEEL CONDUIT: USE THREADED RIGID STEEL CONDUIT FITTINGS, UNLESS OTHERWISE INDICATED.
- G. COMPLETE RACEWAY INSTALLATION BEFORE STARTING CONDUCTOR INSTALLATION.
- H. ARRANGE STUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE THE FINISHED SLAB.
- I. INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT RUN EXCEPT FOR COMMUNICATIONS CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED.
- J. CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
- K. RACEWAYS EMBEDDED IN SLABS: NOT ALLOWED.
- L. THREADED CONDUIT JOINTS, EXPOSED TO WET, DAMP, CORROSIVE, OR OUTDOOR CONDITIONS: APPLY LISTED COMPOUND TO THREADS OF RACEWAY AND FITTINGS BEFORE MAKING UP JOINTS. FOLLOW COMPOUND MANUFACTURER'S WRITTEN INSTRUCTIONS.
- M. RACEWAY TERMINATIONS AT LOCATIONS SUBJECT TO MOISTURE OR VIBRATION: USE INSULATING BUSHINGS TO PROTECT CONDUCTORS, INCLUDING CONDUCTORS SMALLER THAN NO. 4 AWG.
- N. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
- O. FLEXIBLE CONDUIT CONNECTIONS: USE MAXIMUM OF 72 INCHES OF FLEXIBLE CONDUIT FOR RECESSED AND SEMI-RECESSED LIGHTING FIXTURES, EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR TRANSFORMERS AND MOTORS.
 - 1. USE LFMC IN DAMP OR WET LOCATIONS SUBJECT TO SEVERE PHYSICAL DAMAGE.

3.6 WIRING DEVICE INSTALLATION

- A. REPLACE ALL DEVICES THAT HAVE BEEN IN TEMPORARY USE DURING CONSTRUCTION OR THAT SHOW SIGNS THAT THEY WERE INSTALLED BEFORE BUILDING FINISHING OPERATIONS WERE COMPLETE.
- B. KEEP EACH WIRING DEVICE IN ITS PACKAGE OR OTHERWISE PROTECTED UNTIL IT IS TIME TO CONNECT CONDUCTORS.
- C. DO NOT REMOVE SURFACE PROTECTION, SUCH AS PLASTIC FILM AND SLUDGE COVERS, UNTIL THE LAST POSSIBLE MOMENT.
- D. CONNECT DEVICES TO BRANCH CIRCUITS USING PIGTAILS THAT ARE NOT LESS THAN 6 INCHES IN LENGTH.
- E. WHEN THERE IS A CHOICE, USE SIDE WIRING WITH BINDING-HEAD SCREW TERMINALS. WRAP SOLID CONDUCTOR TIGHTLY CLOCKWISE, 2/3 TO 3/4 OF THE WAY AROUND TERMINAL SCREW.
- F. USE A TORQUE SCREWDRIVER WHEN A TORQUE IS RECOMMENDED OR REQUIRED BY THE MANUFACTURER.
- G. WHEN CONDUCTORS LARGER THAN NO. 12 AWG ARE INSTALLED ON 15-A OR 20-A CIRCUITS, SPLICE NO. 12 PIGTAILS FOR DEVICE CONNECTIONS.
- H. TIGHTEN UNUSED TERMINAL SCREWS ON THE DEVICE.
- I. WHEN MOUNTING INTO METAL BOXES, REMOVE THE FIBER OR PLASTIC WASHERS USED TO HOLD DEVICE MOUNTING SCREWS IN YOKES, ALLOWING METAL-TO-METAL CONTACT.
- J. RECEPTACLE ORIENTATION:
 - 1. INSTALL GROUND PIN OF VERTICALLY MOUNTED RECEPTACLES UP, AND ON HORIZONTALLY MOUNTED RECEPTACLES TO THE RIGHT.
- K. DEVICE PLATES: DO NOT USE OVERSIZED OR EXTRA-DEEP PLATES. REPAIR WALL FINISHES AND REMOUNT OUTLET BOXES WHEN STANDARD DEVICE PLATES DO NOT FIT FLUSH OR DO NOT COVER ROUGH WALL OPENING.
- L. ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL AND WITH GROUNDING TERMINAL OF RECEPTACLES ON TOP. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.

3.7 PANELBOARD INSTALLATION

- A. INSTALL PANELBOARDS AND ACCESSORIES ACCORDING TO NEMA PB 1.1.
- B. MOUNT TOP OF TRIM 74 INCHES ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED.
- C. MOUNT PLUMB AND RIGID WITHOUT DISTORTION OF BOX. MOUNT RECESSED PANELBOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL FINISH.
- D. INSTALL FILLER PLATES IN UNUSED SPACES.
- E. ARRANGE CONDUCTORS IN GUTTERS INTO GROUPS AND BUNDLE AND WRAP WITH WIRE TIES AFTER COMPLETING LOAD BALANCING.

3.8 LIGHTING CONTROLS

- A. CONDUCT PRE-INSTALLATION MEETING WITH THE SUPPLIER, PROGRAMMER, INSTALLER, AND OWNER TO REVIEW THE SYSTEM.
- B. PERFORM POST VISIT FOR PROGRAMMING

3.9 FIELD QUALITY CONTROL

- A. PREPARE FOR ACCEPTANCE TESTS AS FOLLOWS:
 - 1. TEST INSULATION RESISTANCE FOR EACH PANELBOARD BUS, COMPONENT, CONNECTING SUPPLY, FEEDER, AND CONTROL CIRCUIT.
 - 2. TEST CONTINUITY OF EACH CIRCUIT.
- B. PERFORM THE FOLLOWING FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS:
 - 1. CORRECT MALFUNCTIONING UNITS ON-SITE, WHERE POSSIBLE, AND RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REPLACE WITH NEW UNITS AND RETEST.
- C. PROVIDE OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT. INCLUDE WARRANTY AND REPLACEMENT PART LIST.

	ISSUED FOR BID	05/12/26
	FINAL OWNER REVIEW	04/30/26
NO.	REVISION	DATE



WTA ARCHITECTS
100 S. Jefferson Ave., Suite 601
Saginaw, Michigan 48607
989 752 8107
COPYRIGHT ©

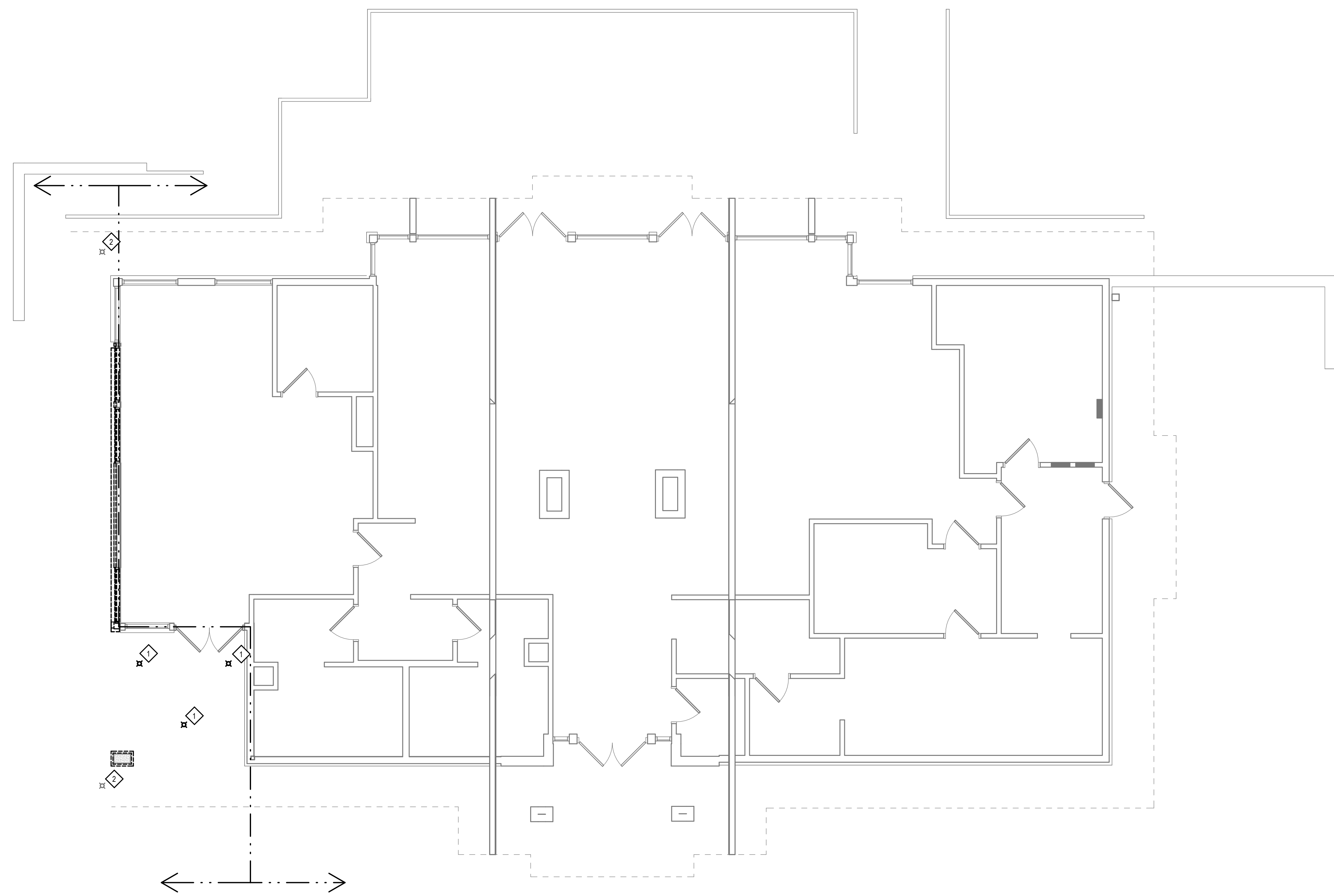
PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

MIDLAND, MICHIGAN

SHEET TITLE
ELECTRICAL SPECIFICATIONS


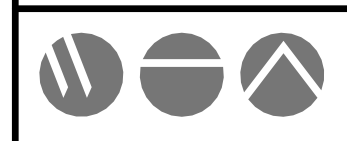
PROJECT NUMBER 25-0546-0295	SHEET NUMBER E0.1
PROJECT DATE 05/12/26	
CHECKED BY R. KAIN	

KEYED DEMOLITION NOTES	
SYMBOL	DESCRIPTION
◇	
1	DISCONNECT AND REMOVE EXISTING LIGHTS. REMOVE CIRCUITS BACK TO NEAREST JUNCTION BOX CAP AND LABEL WIRES.
2	EXISTING SOFFIT LIGHT TO REMAIN.




ELECTRICAL DEMOLITION PLAN
 SCALE: 3/16" = 1'-0"

ISSUED FOR BID	05/12/26
FINAL OWNER REVIEW	04/30/26
NO.	REVISION DATE

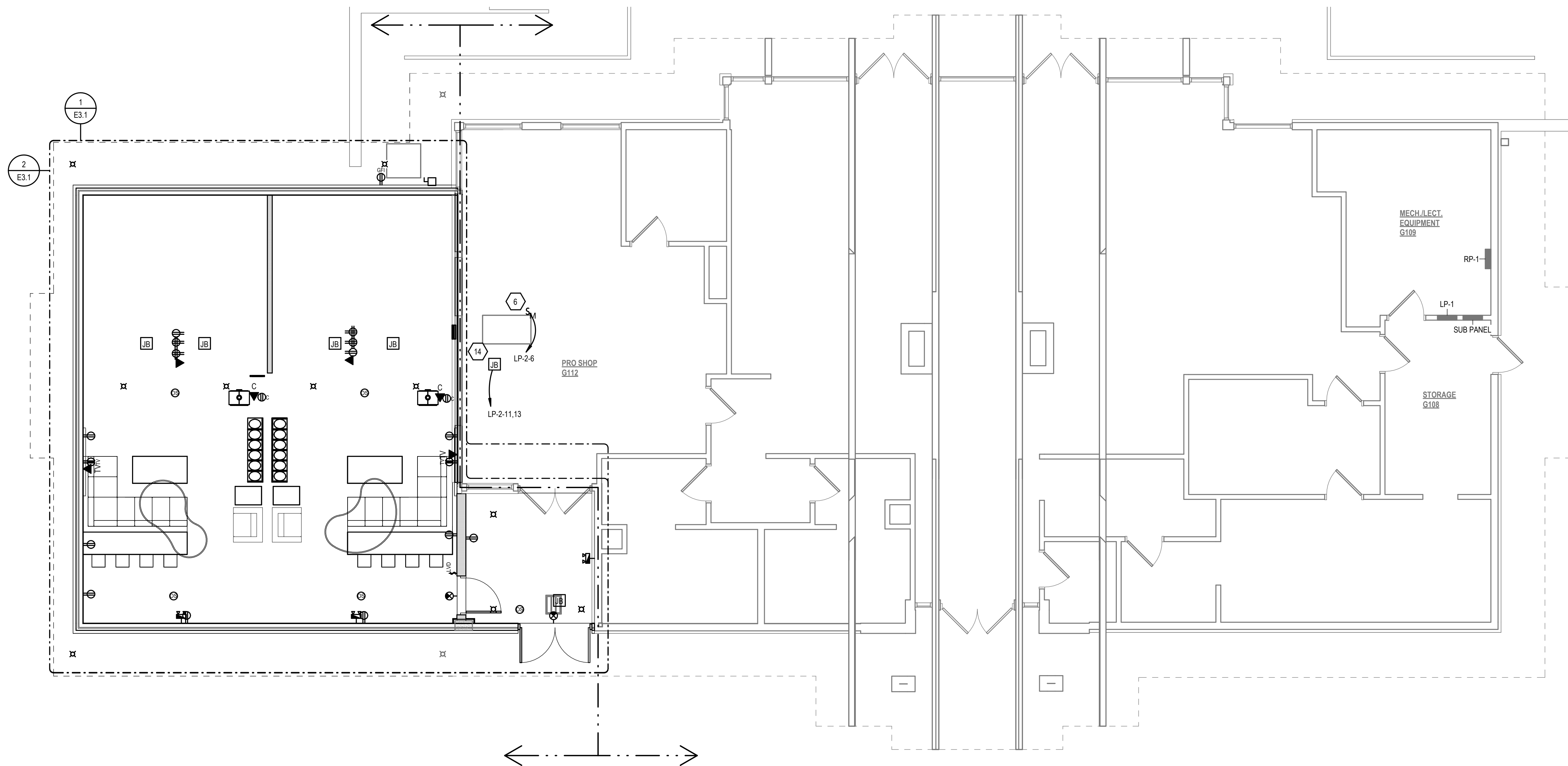

WAK
 WILLIAM A. KIBBE & ASSOCIATES, INC.
 ENGINEERS | ARCHITECTS | SURVEYORS
 WTAARCH.COM

WTA ARCHITECTS
 100 S. Jefferson Ave., Suite 601
 Saginaw, Michigan 48607
 989 752 8107 COPYRIGHT ©

PROJECT TITLE
 ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE
 MIDLAND, MICHIGAN

SHEET TITLE
ELECTRICAL DEMOLITION PLAN

PROJECT NUMBER	25-0546-0295	SHEET NUMBER	E1.0
PROJECT DATE	05/12/26		
CHECKED BY	R. KAIN		

B: 5/11/2026 1:20:21 PM C:\Users\kain\OneDrive\Documents\2505460295_Currie West Clubhouse Expansion_SHEP_V08_Architect.rvt
 RUSHION



KEYED CONSTRUCTION NOTES	
SYMBOL	DESCRIPTION
1	PROVIDE (1) 2" CONDUIT TO EACH CEILING SENSOR FROM UNDER PLATFORM TO ABOVE CEILING WITH A PULL STRING. CONDUITS TO BE RUN IN CENTER WALL BETWEEN SIMULATORS. COORDINATE INSTALLATION WITH SIMULATOR PM.
2	PROVIDE (1) 2" CONDUIT TO THE PROJECTOR FROM UNDER PLATFORM TO ABOVE CEILING WITH A PULL STRING. CONDUITS TO BE RUN IN CENTER WALL BETWEEN SIMULATORS. COORDINATE INSTALLATION WITH SIMULATOR PM.
3	CONNECT NEW SOFFIT LIGHTS TO SOFFIT LIGHTS CIRCUIT IN EXISTING BUILDING.
4	EXISTING BUILDING SOFFIT LIGHT TO REMAIN. UTILIZE CIRCUIT FOR NEW SOFFIT LIGHTS.
5	PROVIDE RECEPTACLE AND LOW VOLTAGE CONNECTION FOR WALL MOUNTED TV. COORDINATE INSTALLATION WITH OTHERS. CONFIRM MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
6	PROVIDE LOCAL DISCONNECT SWITCH FOR FURNACE LOCATED IN CEILING ABOVE PRO SHOP. COORDINATE INSTALL AND LOCATION WITH OTHER TRADES.
7	PROVIDE 60A LOCAL DISCONNECT SWITCH FOR OUTDOOR CONDENSING UNIT. COORDINATE LOCATION AND INSTALL WITH OTHER TRADES.
8	PROVIDE MAINTENANCE RECEPTACLE WITH WEATHER PROOF WHILE IN USE COVER.
9	PROVIDE POWER CONNECTION TO UNIT HEATER IN CEILING. LOCAL DISCONNECT PROVIDED WITH UNIT. COORDINATE INSTALLATION WITH OTHER TRADES.
10	RECEPTACLES TO BE LOCATED UNDERNEATH SIMULATOR ACCESS COVER PANEL FOR SIMULATOR POWER. COORDINATE LOCATION WITH SIMULATOR SUPPLIER.
11	CONNECT ALL EXIT AND EMERGENCY LIGHTING TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING.
12	CONTRACTOR TO RECESS NEW LP-2 IN SIMULATOR BAY WALL. COORDINATE INSTALLATION WITH OTHER TRADES. GENERAL CONTRACTOR TO PROVIDE A HINGED DOOR COVER MATCHING THE ACOUSTICAL PANEL TO CONCEAL PANELBOARD COVER.
13	WORK WITH OWNER IT TO RUN ETHERNET CABLE FROM IT ROOM TO SIMULATOR PLATFORM. COORDINATE INSTALLATION WITH SIMULATOR PM.
14	PROVIDE POWER CONNECTION TO DUCT HEATER. LOCAL DISCONNECT PROVIDED WITH UNIT. COORDINATE WITH OTHER TRADES.

ISSUED FOR BID	05/12/26	
FINAL OWNER REVIEW	04/30/26	
NO.	REVISION	DATE

WAK
WILLIAM A. KIBBE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS | SURVEYORS

WTAARCH.COM

WTA ARCHITECTS

100 S. Jefferson Ave., Suite 601
Saginaw, Michigan 48607
989 752 8107

COPYRIGHT ©

PROJECT TITLE
ADDITION TO:
**CURRIE GOLF COURSE -
WEST CLUBHOUSE**

MIDLAND, MICHIGAN

SHEET TITLE
OVERALL FLOOR PLAN

PROJECT NUMBER 25-0546-0295	SHEET NUMBER E3.0
PROJECT DATE 05/12/26	
CHECKED BY R. KAIN	

OVERALL FLOOR PLAN
SCALE: 3/16" = 1'-0"

B. 5/11/2026 1:20:21 PM C:\Users\kibbe\OneDrive\Documents\2505460295_Currie West Clubhouse Expansion_SHEP_V08_04/30/26.rvt RUSHION

LIGHTING FIXTURE SCHEDULE

TYPE	LAMP			DESCRIPTION	BASIS OF DESIGN		COMMENTS
	NAME	TYPE	VA		MANUFACTURER	CAT. NO.	
A	LED	98.4 VA	120 V	LED CURVILINEAR PENDANT, SHAPE B, 350 LUMENS PER FOOT, 3500K, 0-10V DIMMING	BETA-CALCO	PULP1P06-LPF035-CR80-CT A35-V1-DA01-FA02-CF01-C51	HANG 9'-6" A.F.F.
B	LED	103.3 VA	120 V	LED CURVILINEAR PENDANT, SHAPE D, 350 LUMENS PER FOOT, 3500K, 0-10V DIMMING	BETA-CALCO	PULP1P12-LPF035-CR80-CT A35-V1-DA01-FA02-CF01-C51	HANG 9'-6" A.F.F.
C	LED	15.8 VA	120 V	LED 4" RECESSED DOWNLIGHT, 1,500 LUMENS, 3500K, 0-10V DIMMING	PORTFOLIO	LDS4C15903SD010-4LBSLI	
C1	LED	9.8 VA	120 V	LED 4" RECESSED DOWNLIGHT, 1,000 LUMENS, 3500K, 0-10V DIMMING	PORTFOLIO	LDS4C15903SD010-4LBSLI	
EM	LED	5.0 VA	120 V	LED EMERGENCY LIGHT, LITHIUM-ION BATTERY, 90-MINUTE RUN-TIME, BLACK HOUSING	SURE-LITES	SEL30BKSD	MOUNT 7'-6" A.F.F.
X	LED	1.5 VA	120 V	LED EXIT SIGN, NICKEL CADMIUM BATTERY, BLACK HOUSING, 90-MINUTE RUN-TIME	SURE-LITES	APX7 RG BK	MOUNT ABOVE DOOR

LIGHTING NOTES AND CONTROL SEQUENCE

- A. LIGHTING CONTROLS SHALL MEET THE 2021 MICHIGAN ENERGY CODE. FUNCTIONAL TESTING SHOULD BE COMPLETED PER C408.3 & A TESTING REPORT GENERATED PER C408.3.2.3. LIGHTING CONTROL PERFORMANCE CRITERIA TO BE VERIFIED BY A THIRD PARTY FOR PROPER OPERATION, CALIBRATION, ADJUSTMENT, PROGRAMMING, AND APPROVAL.
- B. CONDUCT PRE-INSTALLATION MEETING WITH THE SUPPLIER, PROGRAMMER, INSTALLER, AND OWNER TO REVIEW THE SYSTEM.
- C. PERFORM POST VISIT FOR PROGRAMMING.
- D. PROVIDE 4 HOUR TRAINING SESSION FOR THE LIGHTING CONTROLS BY A MANUFACTURER AUTHORIZED PERSON. TRAINING AGENDA SHOULD BE PROVIDED BEFORE THE CLASS. TRAINING SHOULD INCLUDE:
 - 1. HOW TO OPERATE AND ADJUST THE SYSTEM.
 - 2. HOW TO MAINTAIN THE SYSTEM.
- E. PROVIDE TWO FOLLOW UP VISITS TO REVIEW OPERATION OF THE SYSTEM AND MAKE ADJUSTMENTS FOR THE OWNER. SCHEDULE FOR 30 DAYS AND 6 MONTHS AFTER OCCUPANCY. SCHEDULE DATES WITH OWNER AT PROJECT CLOSEOUT.

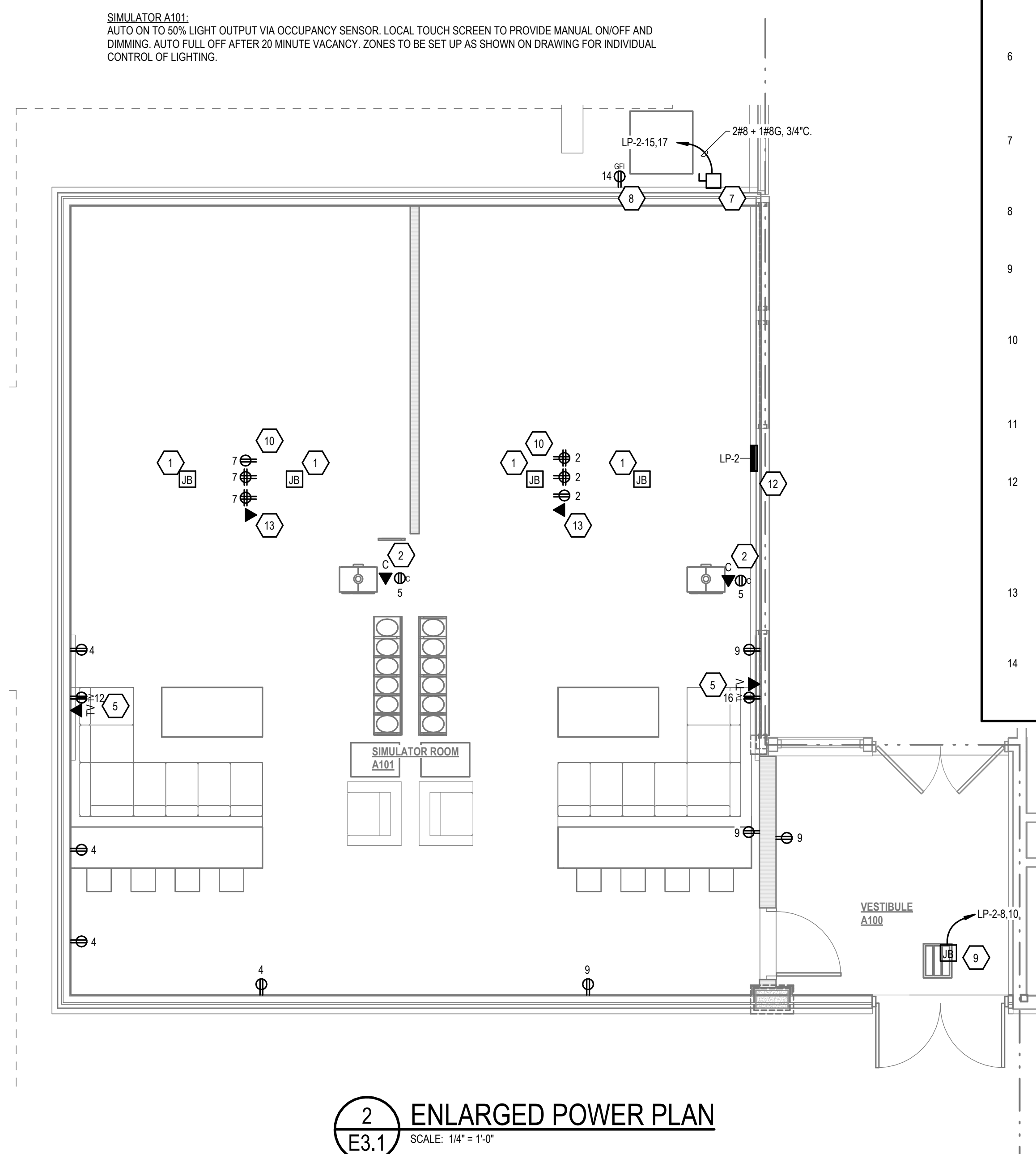
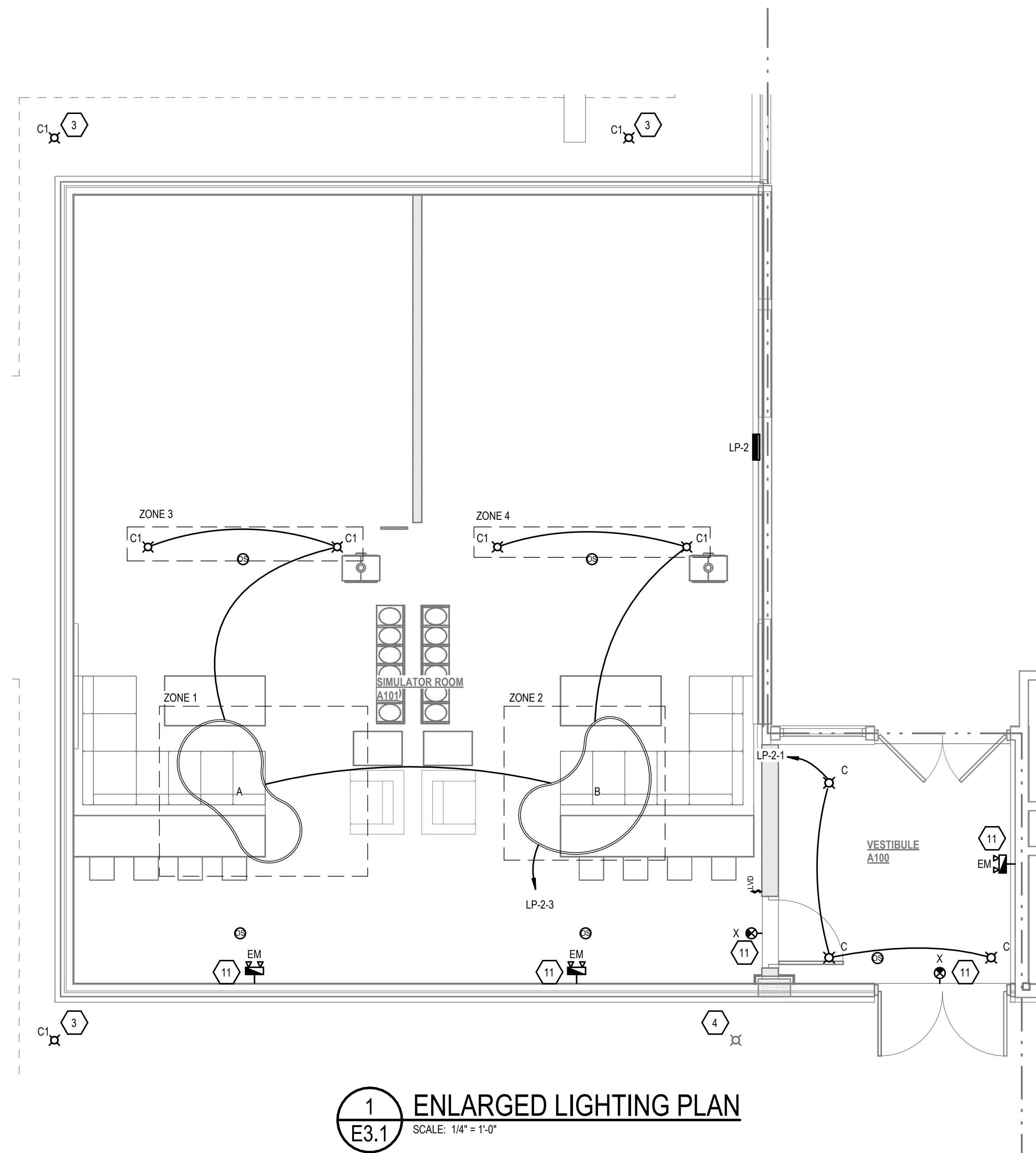
SEE THE FOLLOWING LIGHTING CONTROL SEQUENCE FOR PROPOSED SPACES:

VESTIBULE A100:
AUTO ON TO 100% LIGHT OUTPUT VIA OCCUPANCY SENSOR. AUTO OFF AFTER 20 MINUTE VACANCY.

SIMULATOR A101:
AUTO ON TO 50% LIGHT OUTPUT VIA OCCUPANCY SENSOR. LOCAL TOUCH SCREEN TO PROVIDE MANUAL ON/OFF AND DIMMING. AUTO FULL OFF AFTER 20 MINUTE VACANCY. ZONES TO BE SET UP AS SHOWN ON DRAWING FOR INDIVIDUAL CONTROL OF LIGHTING.

KEYED CONSTRUCTION NOTES

SYMBOL	DESCRIPTION
1	PROVIDE (1) 2" CONDUIT TO EACH CEILING SENSOR FROM UNDER PLATFORM TO ABOVE CEILING WITH A PULL STRING. CONDUITS TO BE RUN IN CENTER WALL BETWEEN SIMULATORS. COORDINATE INSTALLATION WITH SIMULATOR PM.
2	PROVIDE (1) 2" CONDUIT TO THE PROJECTOR FROM UNDER PLATFORM TO ABOVE CEILING WITH A PULL STRING. CONDUITS TO BE RUN IN CENTER WALL BETWEEN SIMULATORS. COORDINATE INSTALLATION WITH SIMULATOR PM.
3	CONNECT NEW SOFFIT LIGHTS TO SOFFIT LIGHTS CIRCUIT IN EXISTING BUILDING.
4	EXISTING BUILDING SOFFIT LIGHT TO REMAIN. UTILIZE CIRCUIT FOR NEW SOFFIT LIGHTS.
5	PROVIDE RECEPTACLE AND LOW VOLTAGE CONNECTION FOR WALL MOUNTED TV. COORDINATE INSTALLATION WITH OTHERS. CONFIRM MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
6	PROVIDE LOCAL DISCONNECT SWITCH FOR FURNACE LOCATED IN CEILING ABOVE PRO SHOP. COORDINATE INSTALL AND LOCATION WITH OTHER TRADES.
7	PROVIDE 60A LOCAL DISCONNECT SWITCH FOR OUTDOOR CONDENSING UNIT. COORDINATE LOCATION AND INSTALL WITH OTHER TRADES.
8	PROVIDE MAINTENANCE RECEPTACLE WITH WEATHER PROOF WHILE IN USE COVER.
9	PROVIDE POWER CONNECTION TO UNIT HEATER IN CEILING. LOCAL DISCONNECT PROVIDED WITH UNIT. COORDINATE INSTALLATION WITH OTHER TRADES.
10	RECEPTACLES TO BE LOCATED UNDERNEATH SIMULATOR ACCESS COVER PANEL FOR SIMULATOR POWER. COORDINATE LOCATION WITH SIMULATOR SUPPLIER.
11	CONNECT ALL EXIT AND EMERGENCY LIGHTING TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING.
12	CONTRACTOR TO RECESS NEW LP-2 IN SIMULATOR BAY WALL. COORDINATE INSTALLATION WITH OTHER TRADES. GENERAL CONTRACTOR TO PROVIDE A HINGED DOOR COVER MATCHING THE ACCOUSTICAL PANEL TO CONCEAL PANELBOARD COVER.
13	WORK WITH OWNER IT TO RUN ETHERNET CABLE FROM IT ROOM TO SIMULATOR PLATFORM. COORDINATE INSTALLATION WITH SIMULATOR PM.
14	PROVIDE POWER CONNECTION TO DUCT HEATER. LOCAL DISCONNECT PROVIDED WITH UNIT. COORDINATE WITH OTHER TRADES.



ISSUED FOR BID	05/12/26
FINAL OWNER REVIEW	04/30/26
NO.	REVISION
	DATE

WAK
WILLIAM A. KIBBE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS | SURVEYORS

WTAARCH.COM

WTA ARCHITECTS
100 S. Jefferson Ave., Suite 601
Saginaw, Michigan 48607
989 752 8107

COPYRIGHT ©

PROJECT TITLE
ADDITION TO:
CURRIE GOLF COURSE - WEST CLUBHOUSE

MIDLAND, MICHIGAN

SHEET TITLE
ENLARGED FLOOR PLANS

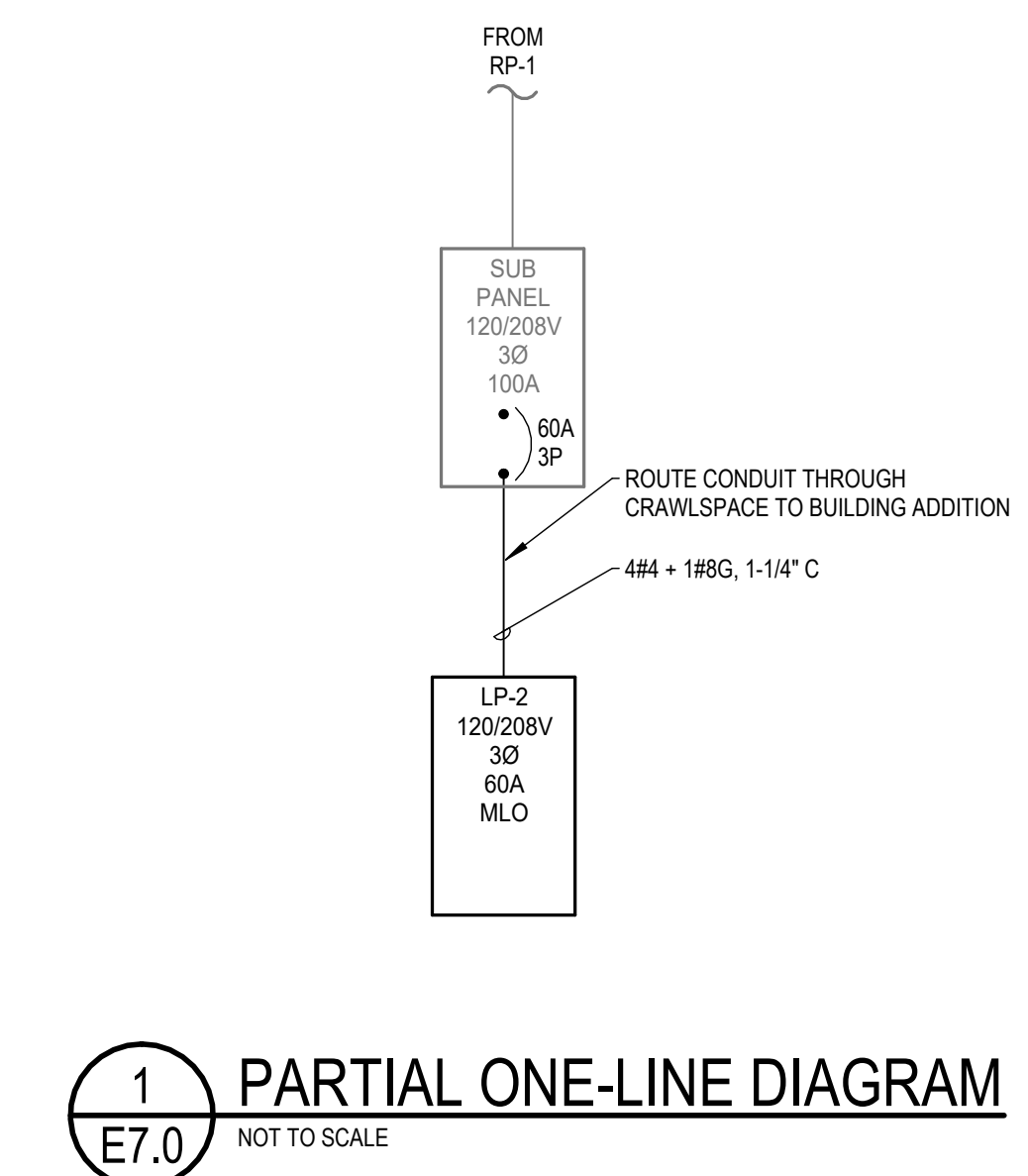
PROJECT NUMBER 25-0546-0295	SHEET NUMBER E3.1
PROJECT DATE 05/12/26	
CHECKED BY R. KAIN	

B:\11\2026\112022 PM - C:\Users\kibbe\Documents\2505460295_Currie West Clubhouse Expansion_SHEP_V08_Architect.rvt
RUSHION

BRANCH PANEL: SUB PANEL													
LOCATION: STORAGE G108				VOLTS: 120/208 Wye				A.I.C. RATING:					
SUPPLY FROM: RP-1				PHASES: 3				MAINS TYPE: MLO					
MOUNTING: Surface				WIRES: 4				MAINS RATING: 100 A					
ENCLOSURE: Type 1													
NOTES: EXISTING PANEL, CIRCUITS IN BOLD ARE NEW													
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXHAUST FAN	20 A	3	1200	1300					3	20 A	COOLER	2
3						1200	1300						4
5								1200	1300				6
7	LP-2 (SIMULATOR ADDITION)	60 A	3	5284	1400					3	20 A	FREEZER	8
9						5530	1400						10
11								5352	1400				12
13	SPACE		1	500						1	20 A	COOLER LIGHTS & PLUG	14
15	SPACE		1							1		SPACE	16
17	SPACE		1							1		SPACE	18
19	SPACE		1							1		SPACE	20
21	SPACE		1							1		SPACE	22
23	SPACE		1							1		SPACE	24
Total Load:				9684.2 VA		9430.2 VA							
Total Amps:				81 A		79 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
HVAC	8236.0 VA	100.00%	8236.0 VA	
Lighting	293.3 VA	125.00%	366.6 VA	TOTAL CONN LOAD: 28366.4 VA
Receptacle	4140.0 VA	100.00%	4140.0 VA	TOTAL EST DEMAND: 28439.0 VA
Heating	3500.0 VA	100.00%	3500.0 VA	TOTAL CONN CURRENT: 79 A
				TOTAL EST DEMAND CURRENT: 79 A

NOTES:
PROVIDE AN UPDATED & TYPED DIRECTORY AT PROJECT CLOSEOUT



1 PARTIAL ONE-LINE DIAGRAM
E7.0 NOT TO SCALE

BRANCH PANEL: LP-2													
LOCATION: SIMULATOR ROOM A101				VOLTS: 120/208 Wye				A.I.C. RATING: 22,000					
SUPPLY FROM: SUB PANEL				PHASES: 3				MAINS TYPE: MLO					
MOUNTING: Recessed				WIRES: 4				MAINS RATING: 100 A					
ENCLOSURE: Type 1													
NOTES: NEW 100A QO LOAD CENTER													
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	VESTIBULE LTS	20 A	1	57	900					1	20 A	BOOTH #1 POWER	2
3	SIMULATOR ROOM LTS	20 A	1			237	720			1	20 A	GENERAL USE RECEP	4
5	PROJECTOR RECEPTACLES	20 A	1					360	888	1	15 A	FURNACE	6
7	BOOTH #2 POWER	20 A	1	900	1500					2	20 A	UH-1 VESTIBULE	8
9	GENERAL USE RECEP	20 A	1			720	1500						10
11	DUCT HEATER	25 A	2					1750	180	1	20 A	RECEP - WEST WALL TV	12
13				1750	180					1	20 A	OUTDOOR MAINTENANCE RECEP	14
15	OUTDOOR AC UNIT	35 A	2			2174	180			1	20 A	RECEP - EAST WALL TV	16
17								2174	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
Total Load:				5284.2 VA		5530.3 VA							
Total Amps:				44 A		46 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
HVAC	8236.0 VA	100.00%	8236.0 VA	
Lighting	293.3 VA	125.00%	366.6 VA	TOTAL CONN LOAD: 16166.4 VA
Receptacle	4140.0 VA	100.00%	4140.0 VA	TOTAL EST DEMAND: 16239.0 VA
Heating	3500.0 VA	100.00%	3500.0 VA	TOTAL CONN CURRENT: 45 A
				TOTAL EST DEMAND CURRENT: 45 A

NOTES:
PROVIDE AN UPDATED & TYPED DIRECTORY AT PROJECT CLOSEOUT

ISSUED FOR BID	05/12/26	
FINAL OWNER REVIEW	04/30/26	
NO.	REVISION	DATE

WTA ARCHITECTS
WILLIAM A. KIBBE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS | SURVEYORS

WTAARCH.COM

100 S. Jefferson Ave., Suite 601
Saginaw, Michigan 48607
989 752 8107

COPYRIGHT ©

PROJECT TITLE	
ADDITION TO: CURRIE GOLF COURSE - WEST CLUBHOUSE	
MIDLAND, MICHIGAN	
SHEET TITLE	
PANEL SCHEDULES & ONE-LINE DIAGRAM	
PROJECT NUMBER	SHEET NUMBER
25-0546-0295	E7.0
PROJECT DATE	
05/12/26	
CHECKED BY	
R. KAIN	