

# ARCOLA CREEK PARK PARKING AND SITE IMPROVEMENTS **PROJECT**

# MADISON TOWNSHIP, LAKE COUNTY, OHIO **MARCH 2025**

# **OWNER/TEAM INFORMATION**

CIVIL & ENVIRONMENTAL CONSULTANTS, INC. LAKE METROPARKS 6150 PARKLAND BOULEVARD, SUITE 115, MAYFIELD HEIGHTS, OH 43124 PH: (440) 544-1513 CONTACT: ROBERT B. PARKER, P.E. RPARKER@CECINC.COM CONTACT: BLEDAR LALA, E.I.T

CONCORD TOWNSHIP, OHIO 44077 PH: (440) 639-7275 CONTACT: TIM LANE TLANE@LAKEMETROPARKS.COM

# **UTILITY COMPANIES**

2102 METCALF DRIVE, EAST ASTABULA, OHIO 44004

LAKE COUNTY UTILITIES ADMINISTRATIVE DIVISION 4TH - A405 FLOOR PAINESVILLE, OHIO 44077 PH: (440) 350-2645

BRECKSVILLE, OH 44141

CLEVELAND, OHIO 44103 PH: (800) 362-7557

# LAKE ERIE ARCOLA CREEK

# STANDARD CONSTRUCTION DRAWINGS

THE STANDARD DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF:

- LCDU RULES AND REGULATIONS, FIGURE 3.14.2-10/9/2023
- LCDU RULES AND REGULATIONS, FIGURE 3.17.2-10/9/2023



SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING SITE CONDITIONS & DEMO PLAN
4	PROPOSED SITE PLAN
5	PAVILLION SITE PLAN
6	PARKING LOT SITE PLAN
7	PAVILLION FOUNDATION PLAN
8	RESTROOMS FOUNDATION PLAN
9	SWINGS FOUNDATION PLAN
10-11	GENERAL DETAILS
12	WATERLINE AND SANITARY SEWER PLAN & PROFILE
13	ELECTRICAL SITE PLAN AND DETAILS
14	ELEC. SPECIFICATION SYMBOL LEGEND, NOTES, ONE LINE AND SCHEDULES
15	EROSION & SEDIMENT CONTROL PLAN
16-17	EROSION & SEDIMENT CONTROL DETAILS
G0-G2	RESTROOMS TITLE PAGE, GENERAL NOTES, DESIGN CRITERIA
A1.1-A5.3	RESTROOMS ARCHITECTURAL DRAWINGS
S7.1-S10.3	RESTROOMS STRUCTURAL DRAWINGS
R1-R3	RESTROOMS ROOF DRAWINGS
P1-P2	RESTROOMS PLUMBING DRAWINGS
M1	RESTROOMS MECHANICAL PLAN
E1-E3	RESTROOMS MECHANICAL PLAN
	PAVILLION DRAWINGS

# **PROJECT DESCRIPTION:**

THIS PROJECT INCLUDES THE DESIGN PLANS FOR THE IMPROVEMENT OF ARCOLA CREEK PARK. SPECIFIC IMPROVEMENTS INCLUDE A PARKING LOT EXPANSION UP TO 54 PARKING

# **SPECIFICATIONS**

THE LAKE COUNTY ULTILITIES DEPARTMENT'S RULES AND REGULATIONS, ALONG WITH OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (2023)

LAKE METROPARKS (LMP) 11211 SPEAR ROAD, CONCORD TOWNSHIP, OHIO 44077 PH: 440.639.7275 FAX: 440.639.9126 LAKE COUNTY PROBATE JUDGE: MARK J. BARTOLOTTA LAKE METROPARKS BOARD OF PARK COMMISSIONERS: GRETCHEN SKOK DISANTO JOHN C. REDMOND FRANK J. POLIVKA EXECUTIVE DIRECTOR: PAUL PALAGYI OWNER REPRESENTATIVE SETH OLDHAM PARK PLANNER

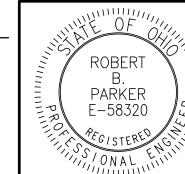
PH: 440.639.7275 FAX: 440.639.9126 SOLDHAM@LAKEMETROPARKS.COM

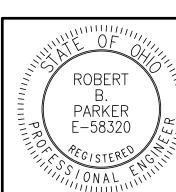
WWW.LAKEMETROPARKS.COM

ROBERT B. PARKER, P.E.

OWNER

3-28-2025 DATE





DRAWING NO.:

OF **17** 

# **GENERAL NOTES**

- . THE CONTRACTOR SHALL BE LICENSED WITH THE LAKE COUNTY DEPARTMENT OF UTILITIES PERTAINING THE WATER AND SANITARY DEVISION.
- 2. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 3. EXISTING SITE INFORMATION / TOPOGRAPHIC SURVEY WAS PREPARED BY LAKE COUNTY GIS MAP. CEC IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
- 4. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES (INCLUDING THOSE LABELED PER RECORD DATA) PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
- . 48 HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE OHIO UTILITY PROTECTION SERVICES, AND ALL OTHER AGENCIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON—MEMBERS OF OHIO UNDERGROUND PROTECTION. INC.
- 6. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. ALL APPLICABLE OSHA STANDARDS SHALL BE FOLLOWED CONCERNING WORKER SAFETY. FOR MORE INFORMATION ON MOT PLEASE REFER TO RIGHT OF WAY NOTE 2.
- 7. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- 8. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
- 9. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
- 10. ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
- 11. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS. LAKE METROPARKS SHALL OBTAIN AN NPDES PERMIT.
- 12. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL, PRACTICES REQUIRED BY LAKE METROPARKS AND THE OHIO EPA.
- 13. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE STATE OF ODOT SPECIFICATIONS ITEM NO. 659.
- 14. ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF LAKE COUNTY/LAKE METROPARKS. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL.
- 15. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
- 16. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
- 17. BEFORE INSTALLATION OF WATER SERVICE LINE OR SANITARY SEWER, OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.
- 18. CONTRACTOR TO REMOVE & REPLACE PAVEMENT AS SPECIFIED.
- 19. PARKING LOT STALL MARKINGS SHALL BE MADE IN ACCORDANCE WITH THE ODOT ITEM 640 PAVEMENT MARKING SPECIFICATIONS.
- 20. ALL MATERIALS ABOVE GROUND, INCLUDING PAVILION, SWINGS AND BATHROOM, WILL BE PROVIDED BY LAKE METRO PARK. CUT SHEETS WILL BE PROVIDED TO CONTRACTOR.

# **DEMOLITION NOTES**

- . ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET AND/OR PROJECT SPECIFICATIONS. THIS INCLUDES FOUNDATION SLABS, WALLS AND FOOTINGS. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE BACKFILLED WITH SATISFACTORY MATERIALS AND COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATION.
- 2. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD BY THE CONTRACTOR.
- NO TREES SHALL BE REMOVED, NOR VEGETATION DISTURBED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
- 4. TREE PROTECTION FENCING SHALL BE IN ACCORDANCE WITH THE LOCAL STANDARDS OR IN ACCORDANCE WITH THE DETAILED DRAWINGS. DO NOT OPERATE OR STORE EQUIPMENT, NOR HANDLE OR STORE MATERIALS WITHIN THE DRIP LINES OF THE TREES SHOWN TO REMAIN.
- 5. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
- 6. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR DAMAGE ACCORDING TO THE APPROPRIATE UTILITY COMPANY STANDARDS AND AT THE CONTRACTOR'S EXPENSE.
- 7. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR OBTAINS PRIOR WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- 3. EROSION & SEDIMENT CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE PROPERLY INSTALLED AND FUNCTION PROPERLY PRIOR TO INITIALIZATION OF DEMOLITION ACTIVITIES.
- 9. ASBESTOS OR HAZARDOUS MATERIALS ARE NOT EXPECTED/ANTICIPATED. IF FOUND ON SITE, SUCH MATERIALS SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL AND OSHA REGULATIONS DURING ALL DEMOLITION ACTIVITIES.
- 11. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- 12. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND FEATURES TO REMAIN. ANY ITEMS TO REMAIN THAT HAVE BEEN DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- 13. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC.. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES

- REGARDING THE NEED, EXTENT AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
- PAVEMENT DEMOLITION.

  15. ALL PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC., WITHIN THE AREA TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH. EXISTING BASE COURSE MATERIALS MAY BE WORKED INTO THE NEW PAVEMENT OR BUILDING SUBGRADE IF THE GRADATION, CONSISTENCY, COMPACTION, SUBGRADE CONDITION, ETC., ARE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF THE REPORT OF GEOTECHNICAL INVESTIGATION. BASE

14. PROVIDE NEAT, STRAIGHT, FULL DEPTH, SAW CUTS OF EXISTING PAVEMENT ALONG LIMITS OF

16. THE CONTRACTOR SHALL USE SUITABLE METHODS TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION ACTIVITIES.

COURSE MATERIALS SHALL NOT BE WORKED INTO THE SUBGRADE AREAS TO RECEIVE LANDSCAPING.

# LAYOUT NOTES

- 1. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
- 2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
- 3. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES PRIOR TO INSTALLATION OF PAVED SURFACES.
- 4. THE CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN IN ACCORDANCE WITH THE SPECIFICATIONS.
- 5. SITE WORK CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH TO ALL SURFACES. SITE WORK CONCRETE SHALL BE CLASS "QC1" (4,000 PSI @ 28 DAYS) UNLESS OTHERWISE NOTED.
- 6. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN, WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
- 7. SITE DIMENSIONS SHOWN ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 8. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT / RECORD DRAWINGS ON-SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION
- 9. REFER TO THE ELECTRICAL DRAWINGS ON SHEET E-13 AND E-14 FOR EXACT DIMENSIONS AND LOCATIONS OF UTILITY SERVICE ENTRY LOCATIONS.
- 10. THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH LAKE METROPARKS / LAKE COUNTY. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES MADE TO THE SITE LAYOUT WITHOUT APPROVAL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CHANGES INCLUDE BUT ARE NOT LIMITED TO, INCREASED IMPERVIOUS PAVEMENT, ADDITION / DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, LANDSCAPING, ETC.

# **GRADING NOTES**

- 1. ALL PROPOSED GRADES SHOWN ARE FINAL GRADES, TOP OF GROUND LEVEL, OR TOP OF PAVEMENT, OR GRATE ELEVATION AT THE DRAWDOWN POINT, UNLESS INDICATED OTHERWISE.
- 2. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO PROJECT SPECIFICATIONS.
- 3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
- 4. CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION & SEDIMENT CONTROL PLAN PREPARED FOR THIS PROJECT.
- 5. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
- 6. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE ENGINEER.
- 7. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TO A DEPTH INDICATED ON THE LANDSCAPE PLANS (4" MINIMUM).
- 8. PAVEMENT SLOPES ACROSS ACCESSIBLE PARKING STALLS AND ADJOINING ACCESS AISLES SHALL BE MAXIMUM 2% AND SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
- 9. ALL SLOPES IN NON-PAVED AREAS SHALL BE 2:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED
- 10. ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN, UNLESS NOTED OTHERWISE.
- 11. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
- 12. SANITARY SEWER RIM ELEVATION SHALL BE A MINIMUM OF 12" ABOVE OF THE INVERT OF ADJACENT DITCH.
- 13. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK BY IMPORTING OR EXPORTING AS NECESSARY TO ACHIEVE DESIGN GRADES AND SPECIFICATIONS.

# **UTILITY NOTES**

- 1. ALL PROPOSED UTILITY LINES AND EXTENSIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE LAKE COUNTY DEPARTMENT OF UTILITIES (LCDU) SPECIFICATIONS. CONTRACTOR SHALL COORDINATE UTILITY DISCONNECTIONS WITH THE APPROPRIATE AGENCY.
- 2. THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EXISTING UTILITIES CONFLICTING WITH IMPROVEMENTS SHOWN HEREON IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- 3. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 4. MAINTAIN MINIMUM 10-FOOT HORIZONTAL AND 18-INCH MINIMUM VERTICAL SEPARATION BETWEEN SANITARY SEWER, STORM SEWER AND WATER SUPPLY LINE, UNLESS OTHERWISE INDICATED. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERMAIN PIPE. ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES, GAS LINES, AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS. INSTALL UTILITIES PRIOR TO PAVEMENT CONSTRUCTION.
- 6. ALL TRENCH SPOILS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.

- 7. 6" SANITARY GRAVITY SEWER SHALL BE PVC—SDR 26 PER ASTM D3034 OR APPROVED EQUAL (CONFORMING TO LAKE COUNTY DEPARTMENT OF UTILITIES RULES AND REGULATIONS). 6" SANITARY GRAVITY SEWER, WITH BETWEEN 5 FEET AND 16 FEET OF COVER. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE & STORM SEWER CROSSINGS, UNLESS OTHERWISE NOTED. SANITARY GRAVITY SEWER JOINTS SHALL CONFORM TO ASTM D3212 FOR PVC. INSTALLATION OF THE SANITARY SEWER PIPES AND FITTINGS SHALL CONFORM TO ASTM D2321, WHILE INSTALLATION OF THE DIRECTIONALLY DRILLED PIPES SHALL CONFORM TO ASTM F1962. ALL PIPE SPECIFICATIONS SHALL MEET THE LAKE COUNTY DEPARTMENT OF UTILITIES RULES AND REGULATIONS, SECTION 3.1.
- 8. SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL—AGGREGATES PER LCDU REQUIREMENTS BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
- 9. DISTANCES SHOWN FOR BOTH SANITARY AND WATER LINE ARE MEASURED FROM CENTER OF STRUCTURE, CONTRACTOR RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR SANITARY STRUCTURES ARE SHOWN TO THE CENTER STRUCTURE. UNLESS OTHERWISE NOTED.
- 10. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
- 11. ADJUST ALL EXISTING UTILITY SURFACE FEATURES INCLUDING BUT NOT LIMITED TO CASTINGS, VALVE BOXES, PEDESTALS, CLEANOUTS, ETC. TO MATCH PROPOSED FINISHED GRADES, UNLESS OTHERWISE
- 12. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ALL IMPROVEMENTS. INCLUDE AT LEAST TWO DIMENSIONS TO EACH VALVE AND MANHOLE FROM KNOWN SITE FEATURES. DRAWINGS SHALL INCLUDE HORIZONTAL AND VERTICAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES ENCOUNTERED.
- 13. CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR THE RESTROOM, PAVILION, AND SWINGS MATERIALS.
- 14. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED 18" BELOW WATERMAIN AT ALL CROSSINGS. WATERMAIN SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER OR STORM SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERMAIN PIPE. ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE.
- 15. SHOP DRAWINGS ON ALL MATERIALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE TO BRACE ANY AND ALL UTILITIES THAT ARE NEAR THE PROPOSED WORK LIMITS. THIS INCLUDES PIPE CROSSINGS AND WHEN DIGGING ADJACENT TO UTILITY POLES, LINES, OR SUPPORTS.
- 17. DEFLECTION TESTING AND LEAKAGE/PRESSURE TESTING OF THE INSTALLED SANITARY SEWERS SHALL BE PERFORMED IN ACCORDANCE WITH THE LCDU RULES AND REGULATIONS, SECTIONS 3.23, AND 3.24. DEFLECTION TESTING WITH A 5% ALLOWABLE DEFLECTION.

# **LCDU GENERAL SEWER NOTES**

- 1. ALL SANITARY SEWER WORK COMPLETED MUST BE IN ACCORDANCE WITH THE CURRENT REGULATIONS AND RULES OF THE LAKE COUNTY DEPARTMENT OF UTILITIES (LCDU).
- 2. ONLY WATER/SEWER CONTRACTORS LICENSED BY THE LAKE COUNTY BOARD OF COMMISSIONERS MAY INSTALL SANITARY SEWERS.
- 3. CONSTRUCTION PLAN APPROVAL BY THE LCDU SHALL EXPIRE IF SANITARY SEWER CONSTRUCTION HAS NOT BEEN INITIATED BY A DEVELOPER WITHIN (12) MONTHS OF THE EFFECTIVE APPROVAL DATE AS SHOWN ON THE BLUEPRINT COPY ORIGINALLY SUBMITTED FOR APPROVAL (THIS IS NOT TO BE CONSTRUED AS THE DATE SHOWN ON THE ORIGINAL MYLAR TITLE SHEET).
- 4. ALL SANITARY SEWER CONNECTIONS SHALL BE A MINIMUM OF 6" DIAMETER AND SHALL HAVE PREMIUM JOINTS.

5. ALL SANITARY SEWERS MUST HAVE PREMIUM JOINTS, AND THE ENTIRE SYSTEM MUST PASS AN

- INFILTRATION TEST AND EXFILTRATION TEST AFTER CONSTRUCTION HAS BEEN COMPLETED. THE MAXIMUM ALLOWABLE RATE OF INFILTRATION AND EXFILTRATION SHALL BE 100 GALLONS PER INCH DIAMETER OF THE SEWER PER MILE PER DAY.
- 6. THE CONTRACTOR SHALL SCHEDULE INSPECTION AT LEAST 48 HOURS IN ADVANCE WITH THE LCDU.
- 7. NO SANITARY SEWER SERVICE CONNECTIONS TO ANY BUILDING SHALL BE PERMITTED PRIOR TO FINAL ACCEPTANCE BY THE LCDU WHICH SHALL INCLUDE APPROVED RECTIFICATION OF ALL PUNCH LIST ITEMS AND THE SUBMITTAL OF MYLAR AS-BUILT DRAWINGS.
- 8. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.
- 9. ALL SANITARY SEWER CONSTRUCTION AREAS MUST BE TO SUBGRADE PRIOR TO CONSTRUCTION AND CERTIFIED IN WRITING BY AN OHIO PROFESSIONAL SURVEYOR.
- 10. SHOP DRAWINGS ON ALL MATERIALS SHALL BE SUBMITTED TO THE LCDU FOR APPROVAL PRIOR TO INSTALLATION.
- 11. INSPECTION SERVICES SHALL BE PERFORMED BY THE LCDU. THE COST OF INSPECTION SHALL BE INCLUDED AS A PART OF THIS CONSTRUCTION PROJECT AT THE CURRENT BASE RATE AS ESTABLISHED BY THE LAKE COUNTY BOARD OF COMMISSIONERS. (SEE SECTION 7 FEE SCHEDULE OF L.C.D.U. RULES AND REGULATIONS) COST FOR INSPECTION SHALL BE THE SOLE RESPONSIBILITY OF THE LAKE COUNTY LICENSED WATER/SEWER CONTRACTOR.
- 12. FINAL TELEVISING OF A SANITARY SEWER SHALL BE PERFORMED BY A PACP CERTIFIED CREW IN ACCORDANCE WITH ALL APPLICABLE PROTOCOL OF THE NATIONAL ASSOCIATION OF SEWER SERVICE COMPANIES AND AS APPROVED BY THE LCDU. THE CCTV INSPECTION SHALL BE RECORDED TO DVD OR FLASH DRIVE AS DIRECTED BY THE LCDU. THE LCDU SHALL RECEIVE THE TELEVISING DATABASE EXPORTED IN PACP VERSION 7.0 FORMAT FOR ALL TELEVISED INSPECTIONS. THE CONTRACTOR SHALL PAY ALL COSTS FOR INSPECTION.
- 13. ALL PROPOSED SANITARY SEWERS SHALL BE LAID OUT BY A REGISTERED SURVEYOR WITH GRADE STAKES AT A MINIMUM OF EVERY 50' AND AT ALL FITTINGS AND A CUT SHEET PROVIDED PRIOR TO CONSTRUCTION

# **ENBRIDGE GAS OHIO (EGO) NOTE:**

- 1. OHIO LAW REQUIRES ALL PARTIES TO CONTACT THE OHIO UTILITIES PROTECTION (OUPS) SERVICES PRIOR TO ANY EXCAVATIONS. CALL 811 (OR 1-800-362-2764) ATLEAST 48 HOURS BEFORE DIGGING OR EXVAVATING. WHEN EXCAVATING, BORING OR WORKING WITHIN 10-FEET OF EITHER SIDE OF A TRANSMISSION PIPELINE, AN ENBRIDGE TFIR MUST BE PRESENT FOR THE ENTIRETY OF THE WORK. ENBRIDGE TRANSMISSION PIPELINE(S) SHALL BE POTHOLED FOR THE TRIR TO HAVE A COMPLETE VISUAL VIEW OF THE PIPELINE DURING THE BORE CROSSINGS.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF DOMINION ENERGY'S PIPELINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING).
- 3. ONE-FOOT MINIMUM VERTICAL AND HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN DOMINION ENERGY OHIO'S (DEO) EXISTING PIPELINE(S) AND ALL OTHER IMPROVEMENTS. EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY DEO FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES & DEVICES, VALVE BOXES, ETC.).
- 4. DEO FACILITIES MUST BE PROTECTED WITH A TARP DURING SANITARY LINE CONSTRUCTION.
- 5. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL DEO EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND IN WORKING ORDER.
- 6. THE CROSSING OF DEO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND THE EXISTING DEO FACILITY. PLEASE CONTACT DOMINION ENERGY OHIO'S CORROSION DEPARTMENT: DAVE CUTLIP (330–266–2121), OR CORTEZ SANDERS (216–312–2225).
- 7. AS REQUIRED BY STATUTE, DEO ACKNOWLEDGES ITS PIPELINES, AS A RULE, WERE INSTALLED AT APPROXIMATELY 36" DEEP.

- 8. TO AVOID PERSONAL INJURIES, PROPERTY DAMAGES, LEGAL ACTIONS, ETC., NO CONSTRUCTION, GRADING OR EXCAVATING SHOULD BEGIN WITHIN 30 FEET OF ANY DEO HIGH PRESSURE NATURAL GAS PIPELINE WITHOUT WRITTEN APPROVAL FROM THIS OFFICE. NO IMPROVEMENTS OF ANY KIND SHOULD BE MADE BY ANY PARTY OTHER THAN DEO WITHIN 100 FEET RADIUS OF A DEO GAS WELL OR DEO BRINE/OIL TANK.
- 9. CONTRACTOR SHALL NOTIFY DOMINION ENERGY OHIO TRANSMISSION AT LEAST ONE FULL WORKING DAY PRIOR TO COMMENCING EXCAVATION NEAR GAS TRANSMISSION LINES. DOMINION REQUESTS TO BE PRESENT FOR THE EXCAVATION IN ACCORDANCE WITH ORC 3781.31 (A).
- 10. GAS SERVICE LINES TO PROPERTIES ARE SHOWN ON THESE PLANS BASED ON GEO—REFERENCED INFORMATION, CONTRACTOR SHALL FIELD VERIFY THE SERVICE LINE LOCATIONS PRIOR TO CONSTRUCTION AND CONTACT THE ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS.

# GEOTECHNICAL

GEOTECHNICAL SOIL BORINGS HAVE BEEN PERFORMED FOR THIS DESIGN. GEOTECHNICAL REPORT WILL BE PROVIDED UPON REQUEST.

# RIGHT OF WAY NOTES

- 1. CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE LAKE COUNTY ENGINEER'S OFFICE PRIOR TO CONSTRUCTION, WHICH INCLUDES PROVIDING A \$20,000 SURETY BOND. COSTS TO OBTAIN THIS PERMIT SHALL BE INCLUDED UNDER ITEM 624 MOBILIZATION.
- 2. TRAFFIC MUST BE MAINTAINED ON DOCK ROAD IN BOTH DIRECTIONS AT ALL TIMES. TEMPORARY ONE LANE OR FULL CLOSURES, IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MOST CURRENT EDITION AND ODOT SCD MT-97.10, MAY BE ALLOWED BUT SHALL BE COORDINATED WITH AND APPROVED BY THE LAKE COUNTY ENGINEER'S OFFICE AND/OR THE TOWNSHIP. LANE CLOSURES MAY BE DENIED IF THEY NEGATIVELY IMPACT THE COUNTY'S OR THE TOWNSHIP'S SNOW REMOVAL OPERATIONS.
- 3. DOCK ROAD IS MAINTAINED BY LAKE COUNTY.
- 4. CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO ALL DRIVEWAYS.
- 5. SHOULD ANY EXISTING TRAFFIC SIGNS BE DISTURBED OR REMOVED, THE CONTRACTOR SHALL REPLACE/REINSTALL THE SIGN ON A NEW 3 LB/FT SIGN POST IN ACCORDANCE WITH THE OMUTCD (MOST RECENT EDITION) AT THE CONTRACTOR'S EXPENSE.
- 6. ALL MAILBOXES WITHIN THE WORK LIMITS SHALL BE REMOVED AS NECESSARY TO FACILITATE WORK, PLACED ON TEMPORARY SUPPORTS DURING THE COURSE OF WORK, AND RE-INSTALLED ON EXISTING POSTS BY THE END OF THE PROJECT.
- 7. THE CONTRACTOR IS TO BE RESPONSIBLE FOR NOTIFYING, BY LETTER WITH HIS COMPANY LETTERHEAD, RESIDENTS, AND BUSINESSES ON DOCK ROAD WHERE DRIVEWAYS WILL BE IMPACTED DURING THIS PROJECT. ADVANCED NOTICE SHALL BE TWO WEEKS PRIOR TO THE FIRST DAY OF WORK AT THAT LOCATION. A COPY OF THE LETTER TO BE CIRCULATED SHALL BE PRESENTED AT THE PRE—CONSTRUCTION MEETING. THE CONTRACTOR IS TO NOTIFY THE PROJECT ENGINEER OF THE DATES WHEN THIS NOTIFICATION IS DISTRIBUTED.
- 8. MAINTAIN ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES.
- 9. IN THE EVENT THAT A DRIVE CANNOT BE MAINTAINED AND A CLOSURE IS NEEDED THE CONTRACTOR

WILL COORDINATE WITH THE PROPERTY OWNER TO MINIMIZE THE IMPACT TO THE OWNER.

10. STREET SWEEPING IS REQUIRED DAILY, OR AS NEEDED.

# **ABBREVIATIONS**

BOT = BOTTOM ELEVATION OF THE INSIDE OF A MANHOLE/STRUCTURE

CMP = CORRUGATED METAL STORM PIPE CPP = CORRUGATED PLASTIC STORM PIPE

CP = CONTROL POINT
D = DEPTH OF MANHOLE, FROM RIM TO BOT

DEO = DOMINION ENERGY OHIO, 1-800-362-7557

DIA = DIAMETER
DND = DO NOT DISTURB

EX = EXISTING HOR = HORIZONTAL

INV = INVERT LCDU = LAKE COUNTY DEPARTMENT OF UTILITIES

ODOT = OHIO DEPARTMENT OF TRANSPORTATION

LF = LINEAL FEET LMP = LAKE METROPARKS

PL = PLASTIC PR = PROPOSED

RCP = REINFORCED CONCRETE STORM PIPE RIM = RIM ELEVATION OF A STRUCTURE

TBA = TO BE ABANDONED

TBRR = TO BE REMOVED AND REPLACED (I.E., NEW SAME DIAMETER PIPE, RE-USE EX. SIGNAGE)

TBR = TO BE REMOVED

TBR = TO BE REMOVED
TYP = TYPICAL

WL = WATERLINE

Suite 115
Mayfield Heights, OH
Tal Ph: 440.544.1555

Civil & Environmenta

ROVMENTS TROPARKS UNTY, OHIO

AL NOTES

25 DRAWN BY: C

ED CHECKED BY:

NRC SITI

GENE

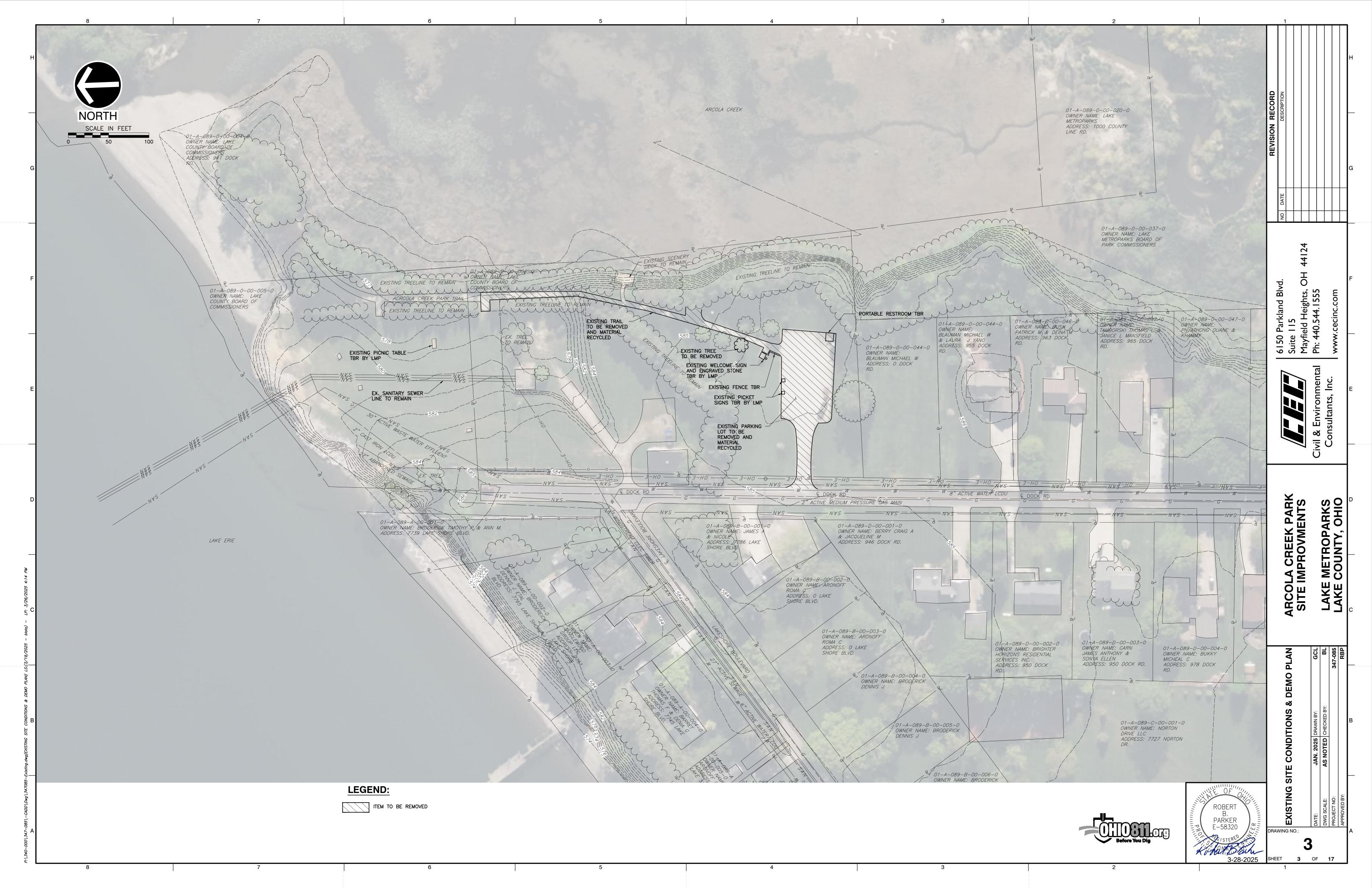
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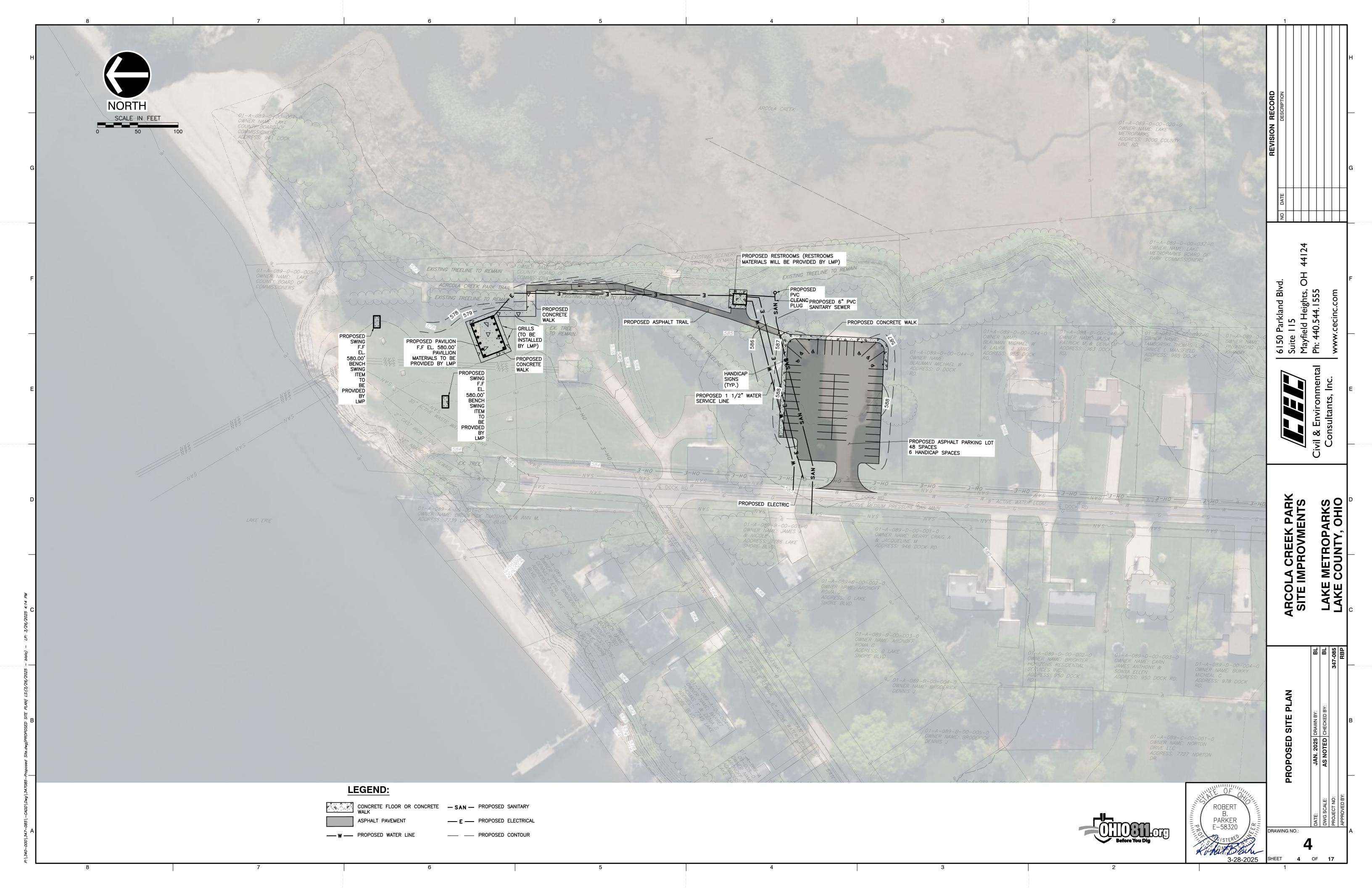
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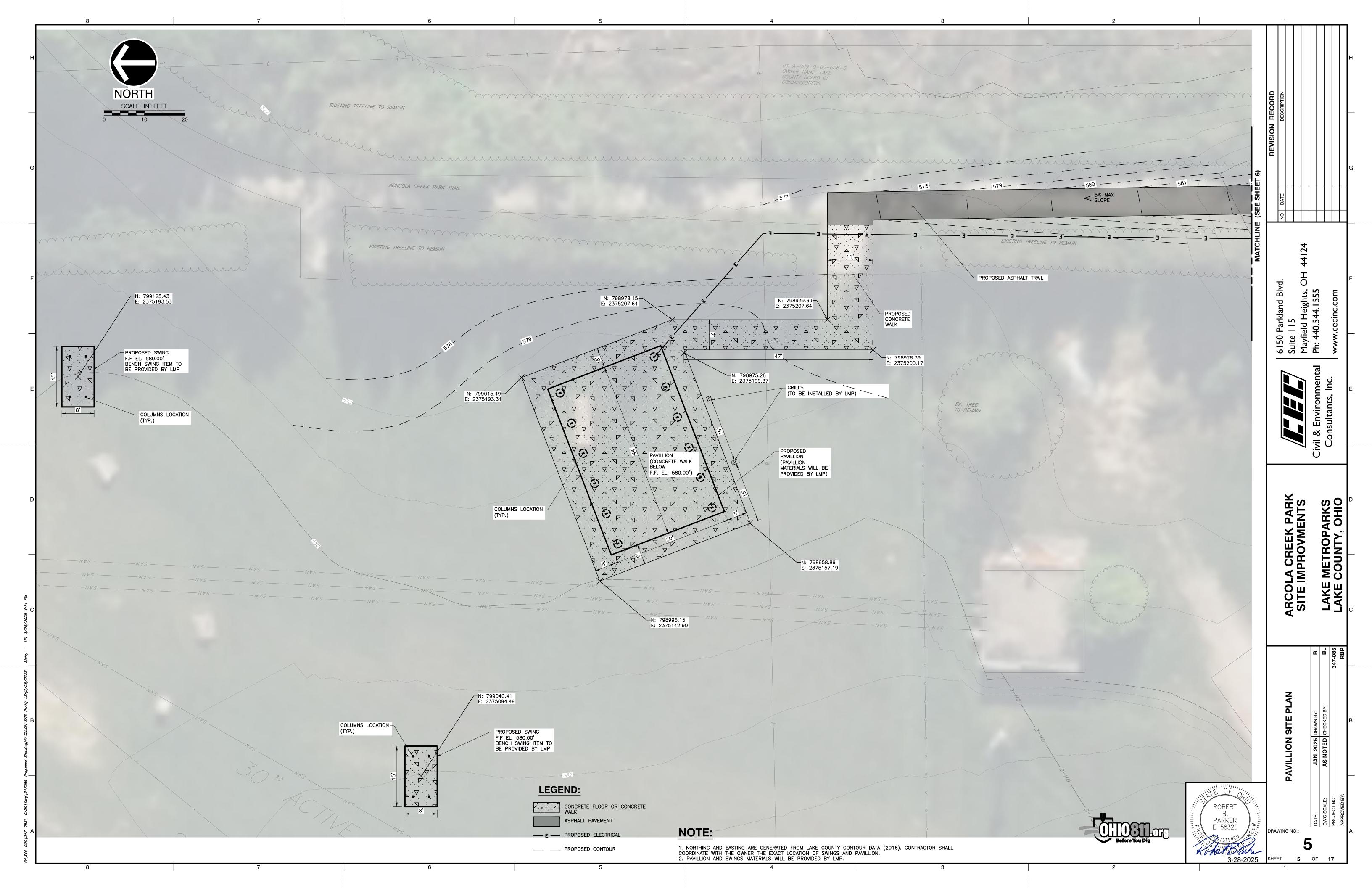
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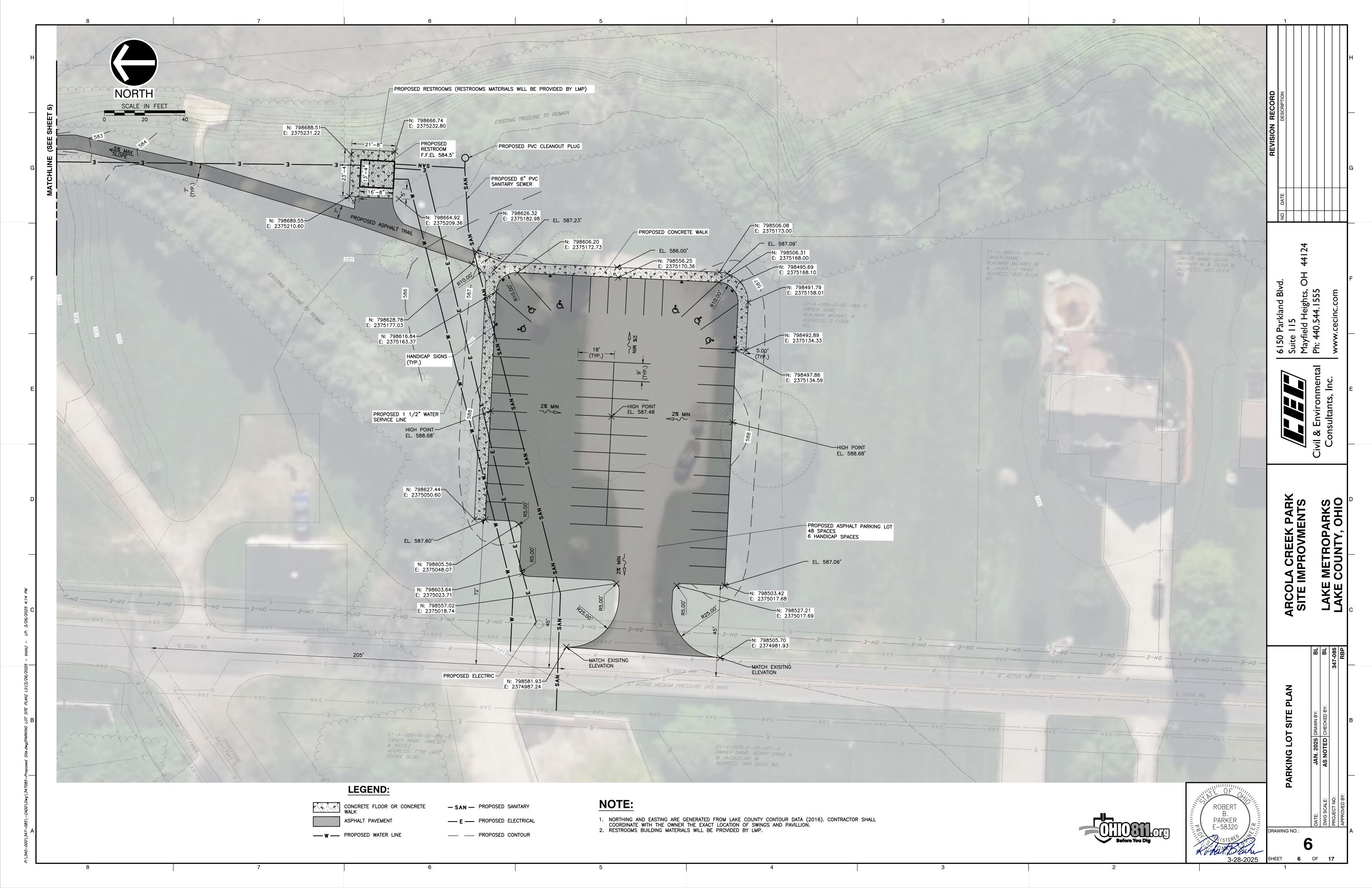
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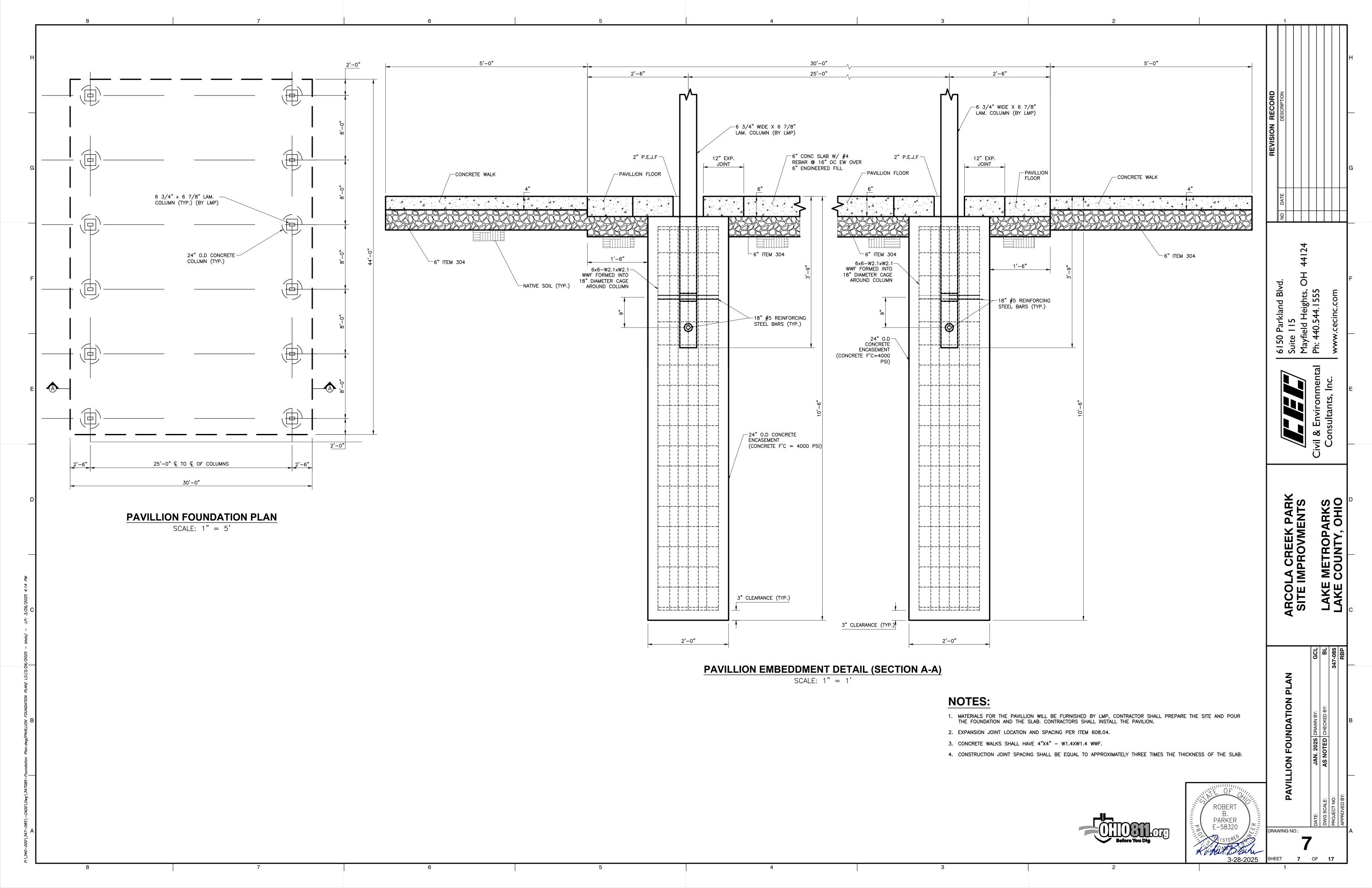
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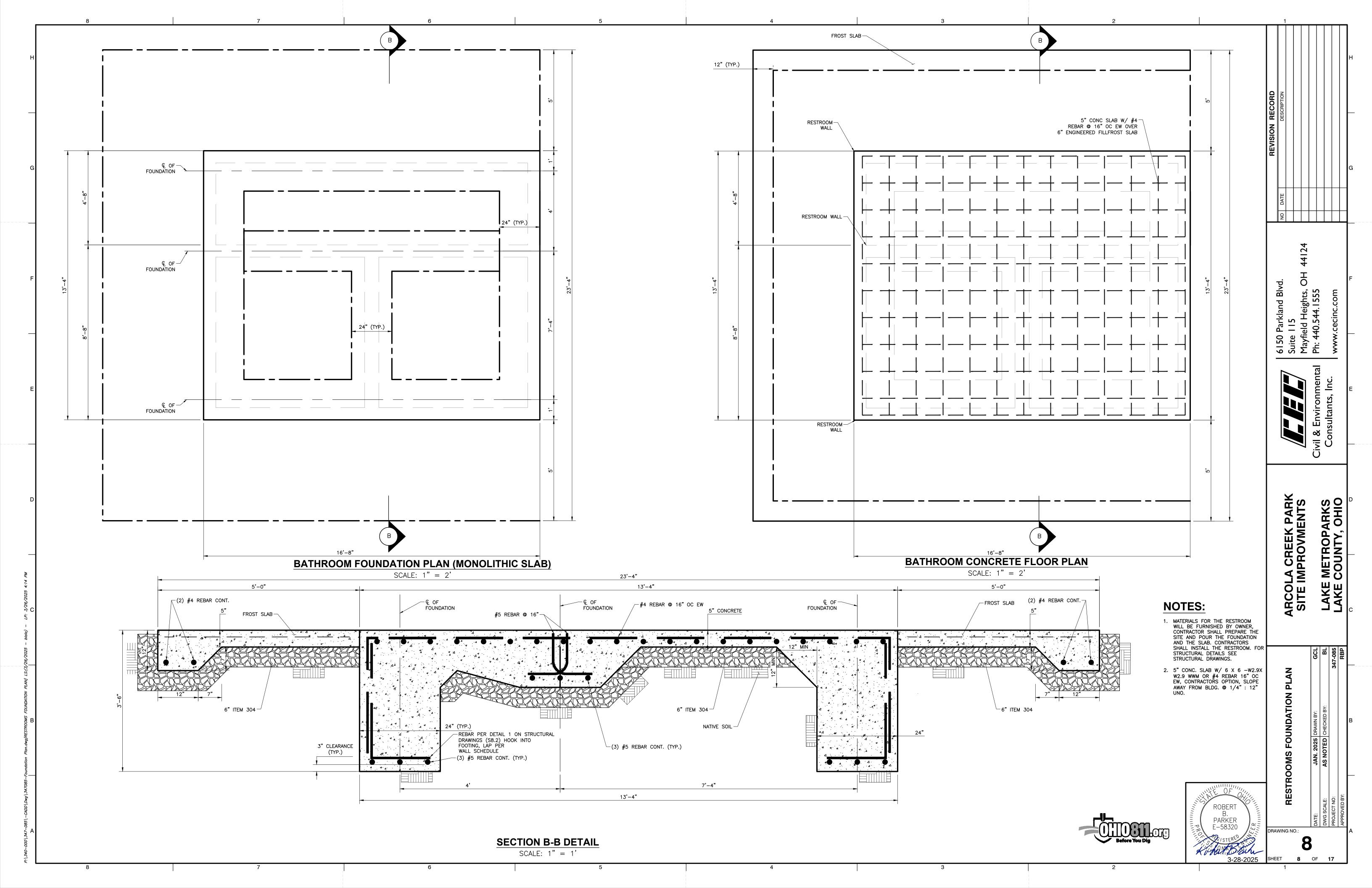


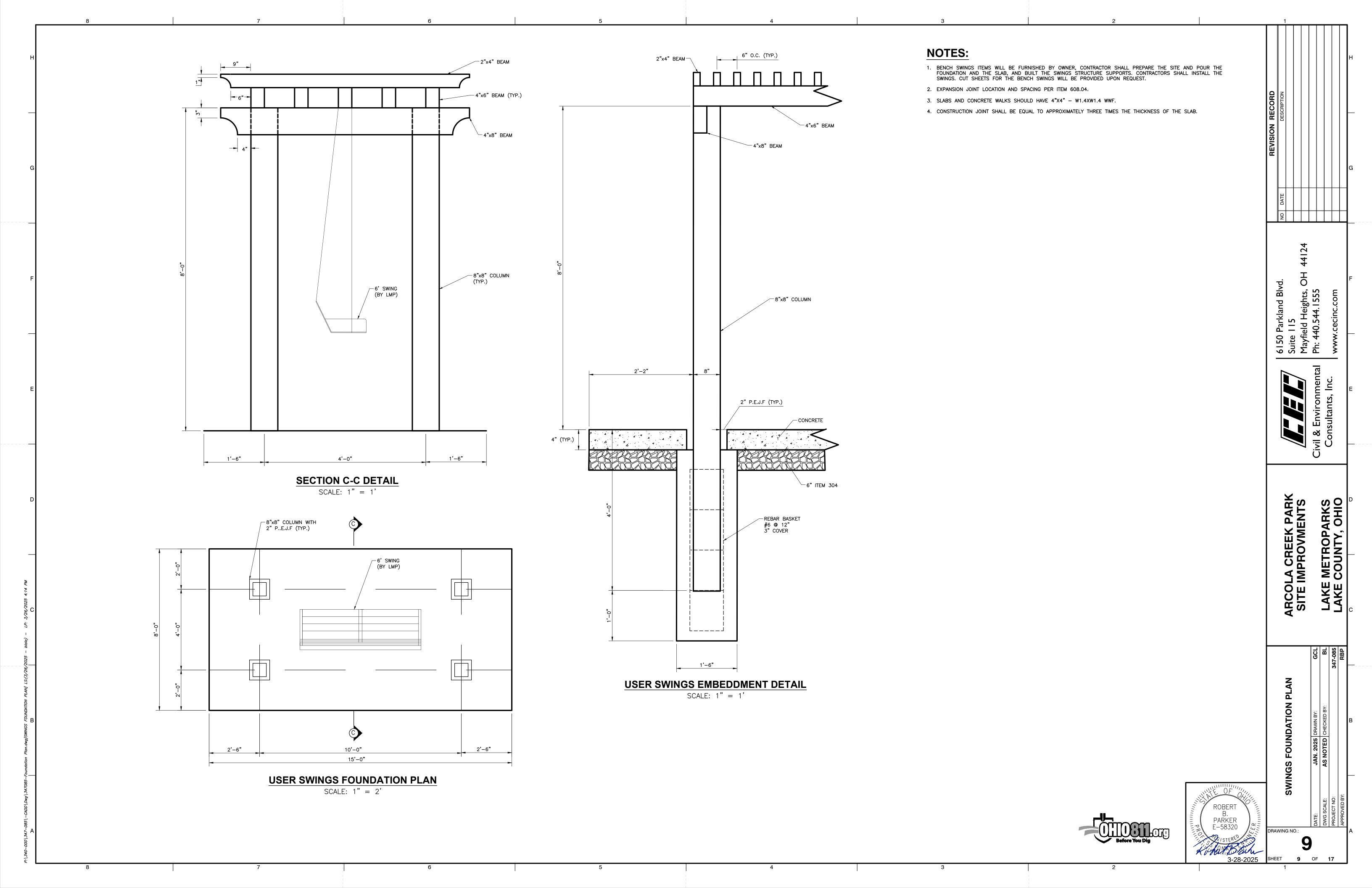




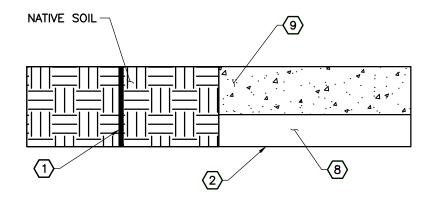




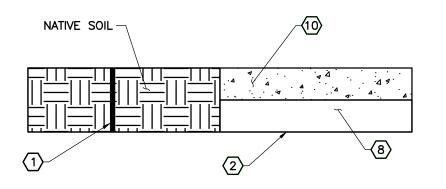




# **ASPHALT PARKING PAVEMENT DETAIL** N.T.S.



**CONCRETE FLOOR DETAIL** N.T.S.



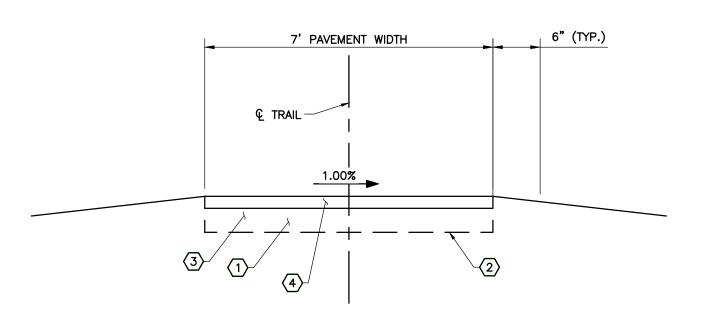
# **CONCRETE WALK DETAIL** N.T.S.

# LEGEND:

- (1) ITEM 203 EXCAVATION
- (2) ITEM 204 ODOT SUBGRADE COMPACTION
- (3) ITEM 304 4" ODOT AGGREGATE BASE
- (4) ITEM 441 3" ASPHALT CONCRETE SURFACE COURSE, TYPE 1. (448), PG64-22, AS PER PLAN
- (5) ITEM 304 6" ODOT AGGREGATE BASE
- (6) ITEM 441 2 ½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448)
- (7) ITEM 441 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- (8) ITEM 304 6" ODOT LIMESTONE AGGREGATE BASE COARSE
- 9 6" REINFORCED CONCRETE WITH 4"X4" W1.4 X W1.4 WWF.
- (10) 4" REINFORCED CONCRETE WITH 4"X4" W1.4 X W1.4 WWF.

# - ASPHALT PARKING CONCRETE WALK-

# **ASPHALT PARKING AND PAVEMENT WALK DETAIL**



# **ASPHALT TRAIL PAVEMENT DETAIL**

- CONTRACTOR SHALL PROVIDE MINIMAL GRADING AND CLEARING AS NEEDED TO PREPARE THE PROPOSED ADA-COMPLIANT TRAILS. PROPOSED TRAIL SURFACE SHALL GENERAL FOLLOW EXISTING GRADES
- ADA STANDARDS FOR ACCESSIBLE DESIGN (SEE KEY REQUIREMENT TABLE BELOW). TRAIL CROSS-SECTION DOES NOT NEED TO BE CROWNED

# **ADA-COMPLIANT FACILITIES - KEY REQUIREMENT TABLES**

# TABLE 1: RUNNING SLOPE REQUIREMENTS (TRAIL GRADE UP OF DOWN)

MAX RUN OF TRAIL SLOPE	MAX DISTANCE BETWEEN LEVEL LANDINGS
0-5%	ANY DISTANCE (SEE NOTE 1)
6-8%	50 FEET OF RUN (SEE NOTE 2)
9-10%	30 FEET OF RUN (SEE NOTE 2)
11-14%	5 FEET OF RUN (SEE NOTE 2)

NOTE 1: RUNNING SLOPE GREATER THAN 5% NOT PERMITTED WHERE CROSS SLOPE

NOTE 2: LEVEL LANDINGS 5 FEET LONG ARE REQUIRED AT THE END OF EACH RUN

# TABLE 2: CROSS SLOPE REQUIREMENTS

MAX CROSS SLOPE	MAX DISTANCE
0-2% RECOMMENDED	ANY DISTANCE
3-5%	ANY DISTANCE (SEE NOTE 3)
6-8%	10 FEET (SEE NOTE 4)
10-12%	5 FEET (SEE NOTE 4)

NOTE 3: CROSS SLOPE GREATER THAN 5% NOT PERMITTED WHERE RUNNING SLOPE

NOTE 4: LEVEL AREA 5 FEET LONG IS REQUIRED AT THE END OF EACH RUN SECTION.

I. CONTRACTOR SHALL ENSURE ALL PARKING LOTS, DRIVES, ADA—COMPLIANT TRAILS, AND ALL STRUCTURES & AMENITIES ALONG THE ADA-COMPLIANT TRAILS MEET THE REQUIREMENTS IN THESE TABLES UPON COMPLETION OF PROJECT

# LOGO SHALL HAVE BLUE-BACKGROUND WITH WHITE SYMBOL 36-IN. (MAX.) 48-IN.

- 1. CONTRACTOR SHALL FURNISH AND INSTALL PAVEMENT MARKINGS AS SHOWN USING A TEMPLATE OR STRIPING MACHINE IN ACCORDANCE WITH ODOT SPECIFICATIONS.
- 2. PAINT MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH ODOT SPECIFICATIONS.

# **ACCESSIBLE PARKING SPACE MARKING**

# **ESTIMATED QUANTITIES**

ODOT ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
	TRAIL AND PARKING LOT		
201	CLEARING AND GRUBBING, AS PER PLAN	1	LUMP
202	REMOVAL OF PORTABLE RESTROOMS, AS PER PLAN	1	LUMP
203	EXCAVATION	649	CY
204	SUBGRADE COMPACTION.	2,447	SY
304	4" AGGREGATE BASE	41	CY
304	6" AGGREGATE BASE	346	CY
304	4" ODOT AGGREGATE BASE COARSE	19	CY
441	3" ASPHALT CONCRETE SURFACE COURSE, TYPE 1	31	CY
441	2.5" ASPHALT CONCRETE INTERMEDIATE COURSE	144	CY
441	1.5" ASPHALT CONCRETE INTERMEDIATE COORSE  1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1	87	CY
451	4" REINFORCED CONCRETE PAVEMENT	171	SY
630	HANDICAP SIGN	6	EACH
640	PARKING LOT STALL MARKING	1,089	FT
040	RESTROOMS	1,009	ГІ
304	6" ODOT LIMESTONE AGGREGATE BASE COARSE	7	CY
451	5" REINFORCED CONCRETE PAVEMENT	25	SY
451	5" REINFORCED CONCRETE PAVEMENT FROST SLABS, AS PER PLAN	31	SY
611	6" SANITARY LINE	350	FT
748	1-1/2" WATER LINE	300	FT
	ELECTRICAL CONNECTION	1	LUMP
	FOUNDATION, AS PER PLAN	24	CY
PECIAL	RESTROOMS BUILDING INSTALLATION	1	LUMP
FLUIAL	PAVILION	ı ı	LUIVIE
304	6" ODOT LIMESTONE AGGREGATE BASE COARSE	52	CY
451	6" REINFORCED CONCRETE PAVEMENT, AS PER PLAN	147	SY
451	4" REINFORCED CONCRETE PAVEMENT, AS PER PLAN	163	SY
651	TOPSOIL STOCKPILED	52	CY
652	PLACING STOCKPILED TOPSOIL	26	CY
PECIAL	FOUNDATION, AS PER PLAN	12	EACH
PECIAL	PAVILLION INSTALLATION	1	LUMP
LOIAL	BENCH SWING	ı	LOWII
304	6" ODOT LIMESTONE AGGREGATE BASE COARSE	4	CY
451	4" REINFORCED CONCRETE PAVEMENT, AS PER PLAN.	27	SY
651	TOPSOIL STOCKPILED	4	CY
652	PLACING STOCKPILED TOPSOIL	2	CY
	FOUNDATION, AS PER PLAN	8	EACH
	BENCH SWING MATERIALS	1	LUMP
PECIAL	BENCH SWING INSTALLATION	1	LUMP
LCIAL	EROSION CONTROL	ı	LUIVIE
PECIAL	SEEDING AND MULCHING, CLASS 1	1 1	LUMP
832	EROSION CONTROL	1	LUMP
032	JEROSION CONTROL	ı	LUIVIF
	INCIDENTALS		
	PREMIUM FOR CONTRACT PERFORMANCE BOND, FOR PAYMENT BOND, AND		
103	FOR MAINTENANCE BOND	1	LUMP
623	CONSTRUCTION LAYOUT STAKES AND SURVEYING	1	LUMP
624	MOBILIZATION	1	EACH
PECIAL	PRE-CONSTRUCTION VIDEO	1	LUMP
PECIAL	PRIVATE UTILITY LOCATE	1	LUMP
	LCDU INSPECTOR ALLOWANCE	1	EACH

# **RESERVED PARKING SIGN (R7-8)** VAN ACCESSIBLE SIGN (R7-8P) N.T.S.

1'-6"

RESERVED

**PARKING** 

VAN

THIS SIGN TYPICAL AT

THIS SIGN TYPICAL AT-

ALL VAN ACCESSIBLE PARKING SPACES

PENALTY SIGN WITH -WORDING AS REQUIRED BY STATE OR LOCAL

> 4-FOOT HIGH STEEL-BOLLARD FILLED WITH

CONCRETE - BOLLARD

TO BE COVERED WITH BLUE REFLECTIVE **BOLLARD SLEEVE** 

OF CONCRETE

GROUND/PAVING

**SURFACE** 

P.C. CONCRETE

ALL ACCESSIBLE

LAW

PARKING SPACES

# **PAY ITEM NOTES**

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN THIS ITEM INCLUDES THE EQUIPMENT, LABOR, AND MATERIALS THAT IS DESCRIBED IN THE ODOT CMS FOR ITEM 201 CLEARING AND GRUBBING, AS WELL AS INCLUDES THE DETAILS AS SHOWN ON THESE PLANS, OR AS NEEDED DURING THE COURSE OF REMOVAL, DISPOSAL, AND STUMP GRINDING OF ANY AND ALL MATURE TREES REQUIRED CONSTRUCTION, SHALL BE PAID FOR AS A LUMP SUM ITEM. THIS ITEM SHALL TO BE REMOVED TO FACILITATE CONSTRUCTION. THIS INCLUDES TREES WITHIN THE LIMITS OF CONSTRUCTION (UNLESS MARKED TO REMAIN). ANY TREE CLEARING REQUIRED FOR THE PROJECT SHALL BE PERFORMED BY THE CONTRACTOR WITHIN THE TREE CLEARING SEASON FROM OCTOBER 1 TO MARCH 31. THIS ITEM SHALL BE PAID

ITEM 202 - REMOVAL OF PORTABLE RESTROOMS, AS PER PLAN THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS TO REMOVE THE EXISTING PORTABLE RESTROOMS IN THE AREA WITHIN THE CONSTRUCTION LIMITS. THIS ITEM INCLUDES A VIDEO RECORDING BY THE CONTRACTOR OF ALL AREAS OF INCLUDE TRANSPORTATION OF THE PORTABLE RESTROOMS TO PREFERRED OWNERS THE PROJECT PRIOR TO CONSTRUCTION, TO ENSURE FINAL SITE CONDITIONS ARE LOCATION NO FURTHER THAN 50 MILES. THIS ITEM SHALL BE PAID AS A LUMP SUM.

ITEM 451 - 4" REINFORCED CONCRETE PAVEMENT FROST SLABS, AS PER PLAN THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS TO PREPARE, PLACE AND FINISH THE FROST SLAB AS PER DETAIL ON FOUNDATION PLANS.

CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR TO ANY DAMAGES CAUSED BY THE CONTRACTOR DURING COURSE OF THE WORK.

# ITEM SPECIAL - FOUNDATION, AS PER PLAN

PER DETAILS ON FOUNDATION PLANS. THE PAVILLION AND SWINGS FOUNDATION WILL UNDERGROUND ON DOCK ROAD AND WITHIN THE PROJECT AREAS (I.E., ALONG THE PAID PER EACH AND THE RESTROOM FOUNDATION WILL BE PAID BY CUBIC YARD.

# ITEM SPECIAL - PAVILLION INSTALLATION

PAID LUMP SUM. ITEM SPECIAL - RESTROOM INSTALLATION

CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING MATERIALS. THIS ITEM IS INCLUDED AS A PART OF THIS CONSTRUCTION PROJECT AT THE CURRENT BASE PAID LUMP SUM.

# ITEM SPECIAL - BENCH SWING MATERIALS

THIS ITEM INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING: 8"X8", 4"X6" AND 2"X4" TREATED SOUTHERN PINE GRADE OR BETTER, AND GALVANIZED NAIL, ANTI CORROSION SCREWS, AND GALVANIZED BOLTS REQUIRED TO BUILD THE SWINGS STRUCTURE. THIS ITEM IS PAID LUMP SUM.

# <u>ITEM SPECIAL — BENCH SWING INSTALLATION</u>

THIS ITEM INCLUDES ALL LABOR, EQUIPMENT TO BUILD THE SWINGS. BENCH SWINGS ITEMS WILL BE PROVIDED AND DELIVERED ON SITE BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING THE INSTALLATION OF THE BENCH SWINGS. THIS ITEM IS PAID LUMP SUM.

# ITEM SPECIAL - ELECTRIC CONNECTION

THIS ITEM INCLUDES ALL LABOR, EQUIPMENT MATERIALS AND COORDINATION TO INSTALL AND CONNECT THE ELECTRIC LINE FROM THE POLE TO THE RESTROOMS AND INSTALL THE ELECTRIC LINE FROM THE RESTROOMS TO PAVILLION. CONTRACTOR SHALL COORDINATE WITH ELECTRIC COMPANY FOR CONNECTION TO THE MAIN POWER LINES. THIS ITEM IS PAID LUMP SUM.

# ITEM 832 - EROSION CONTROL

INCLUDE, BUT IS NOT LIMITED TO, PROCUREMENT OF A CONSTRUCTION STORMWATER PERMIT/NOTICE OF INTENT (IF NEEDED), INSTALLATION OF ALL BMPS, CONCRETE WASHOUT AREA, SILT FENCE, PERIMETER CONTROLS, EROSION & SEDIMENT CONTROLS, MAINTENANCE/INSPECTION OF THOSE BMPS/CONTROLS, DUST CONTROL, AND ANY OTHER TASK/ITEM TO COMPLY WITH THE OHIO EPA GENERAL PERMIT AND/OR LOCAL REGULATIONS, THROUGHOUT THE LENGTH OF THE CONSTRUCTION.

BACK TO ORIGINAL CONDITIONS OR BETTER. VIDEO RECORDING SHALL SHOW ALL PORTIONS OF THE PROJECT, IN BOTH DIRECTIONS OF THE ALIGNMENT STATIONING. VIDEO SHALL ALSO CAPTURE ANY CONTRACTOR STAGING AND HAULING AREAS.

# ITEM SPECIAL - PRIVATE UTILITY LOCATE

THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS TO PREPARE, AND PLACE PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE A THIRD PARTY REINFORCED CONCRETE FOUNDATIONS FOR PAVILLION, SWINGS AND RESTOROOMS AS PRIVATE UTILITY LOCATING SERVICE (I.E., IN ADDITION TO OUPS) TO INVESTIGATE SAME SIDE OF THE ROAD AS THE PROPOSED WORK). GAS, WATER, SANITARY, ELECTRIC, AND COMMUNICATIONS LINES MAY BE EXPECTED. SPECIFIC ATTENTION SHOULD BE PLACED ON LOCATING THE EXISTING GAS LINES WITHIN THE PROJECT THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, TO INSTALL THE PAVILLION. PAVILLION AREA. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF THE PRIVATE LOCATE TO MATERIALS WILL BE PROVIDED AND DELIVERED ON SITE BY THE OWNER. THE THE ENGINEER/OWNER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING MATERIALS. THIS ITEM IS ANY UTILITY CONTRACTOR WITH THE ENGINEER/OWNER PRIOR TO CONSTRUCTION. THIS ITEM SHALL BE PAID LUMP SUM.

# ITEM SPECIAL - LCDU INSPECTOR ALLOWANCE

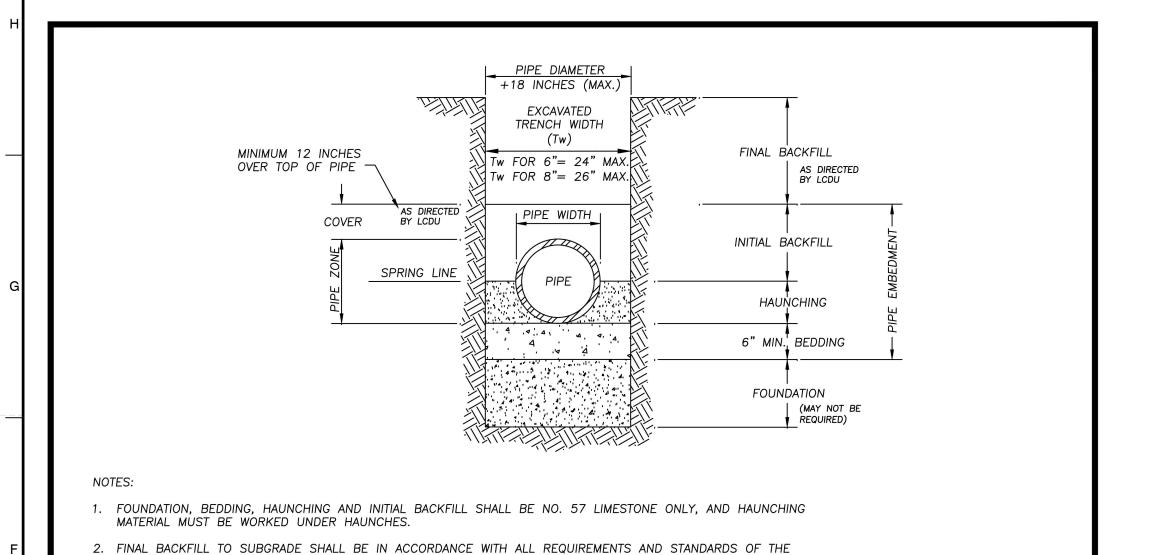
THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, TO BUILD THE RESTROOMS. RESTROOMS SEWER AND WATER INSPECTION SERVICES SHALL BE PERFORMED BY THE LAKE MATERIALS WILL BE PROVIDED AND DELIVERED ON SITE BY THE OWNER. THE COUNTY DEPARTMENT OF UTILITIES (LCDU). THE COST OF INSPECTION SHALL BE RATE AS ESTABLISHED BY THE LAKE COUNTY BOARD OF COMMISSIONERS. (SEE SECTION 7 FEE SCHEDULE OF L.C.D.U. RULES AND REGULATIONS). COORDINATION OF AND COST FOR INSPECTION SHALL BE THE SOLE RESPONSIBILITY OF THE LICENSED WATER/SEWER CONTRACTOR. THE CONTRACTOR SHALL SEND A COPY OF THE INSPECTION INVOICE FROM LCDU TO THE ENGINEER. ALL BIDDERS SHALL UTILIZE THE SAME ESTIMATED COST FOR THEIR BIDS. CONTRACTOR WILL BE REIMBURSED AT COST (I.E., NO MARKUP) FOR ACTUAL INSPECTION FEES REQUIRED FOR COMPLETION



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SHEET **10** OF **17** 



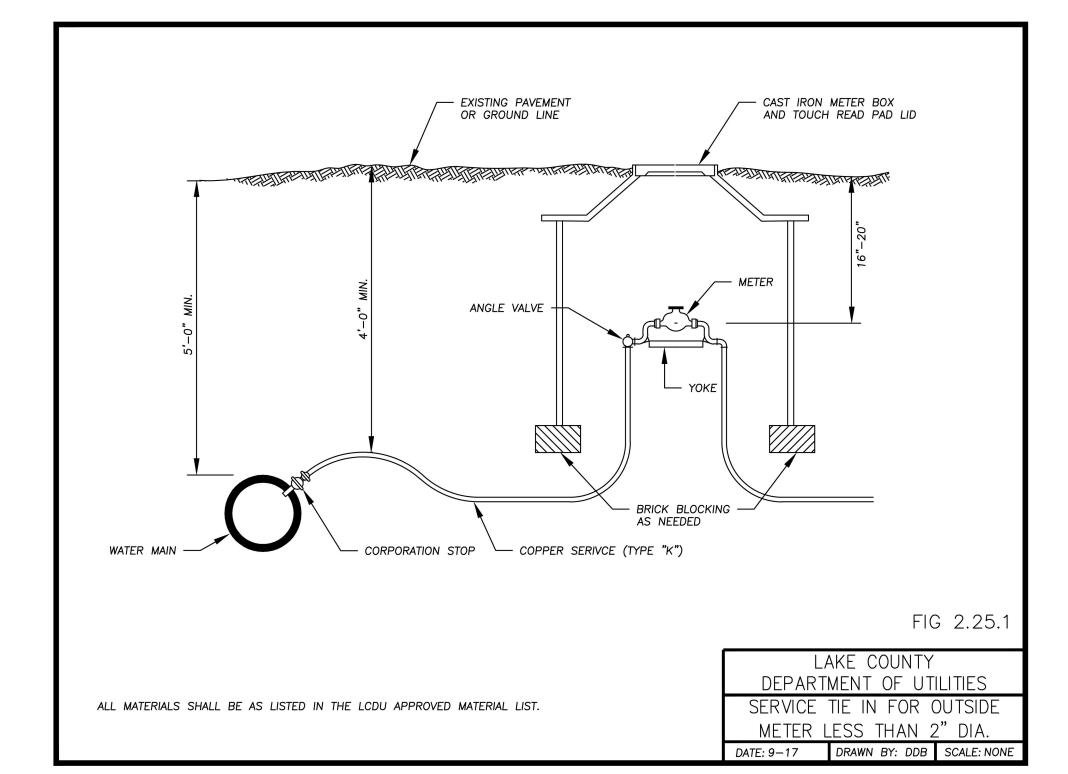
PUBLIC AGENCY HAVING PRIMARY JURISDICTION. UNLESS OTHERWISE SO STIPULATED THE FINAL BACKFILL

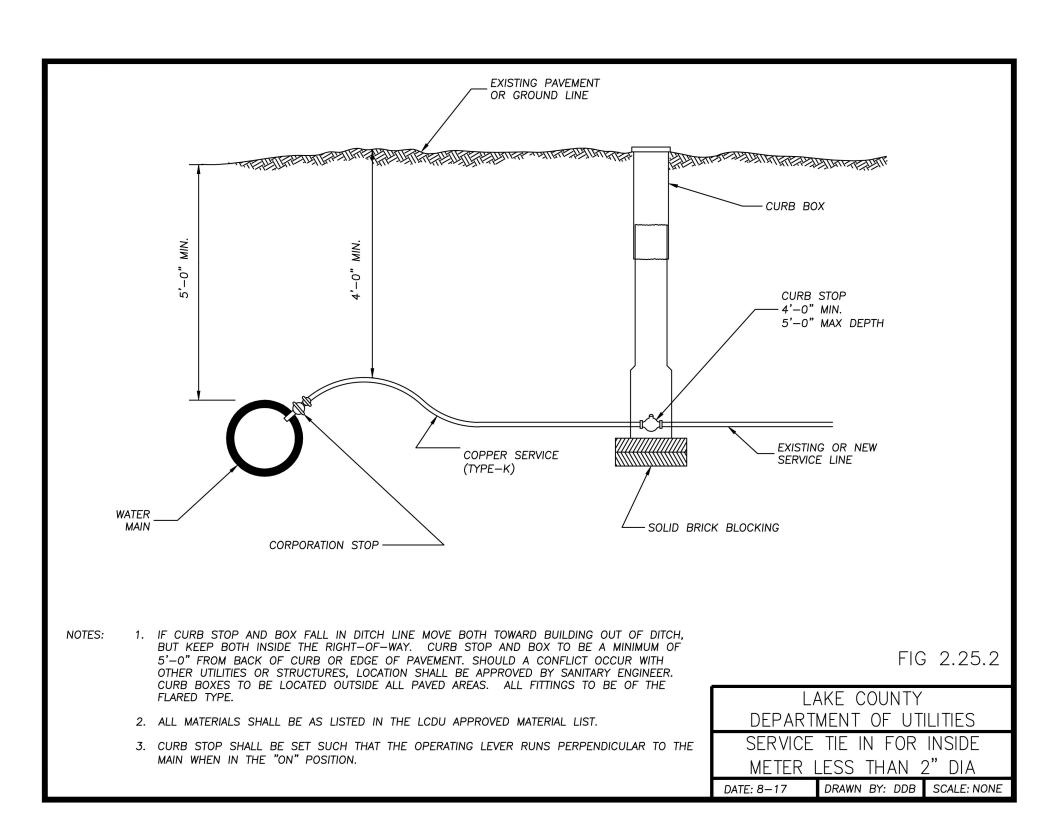
SHALL BE ODOT 304 LIMESTONE TO SUBBASE LIMITS UNDER ALL PAVEMENT, WALKS, STRUCTURES, ETC.

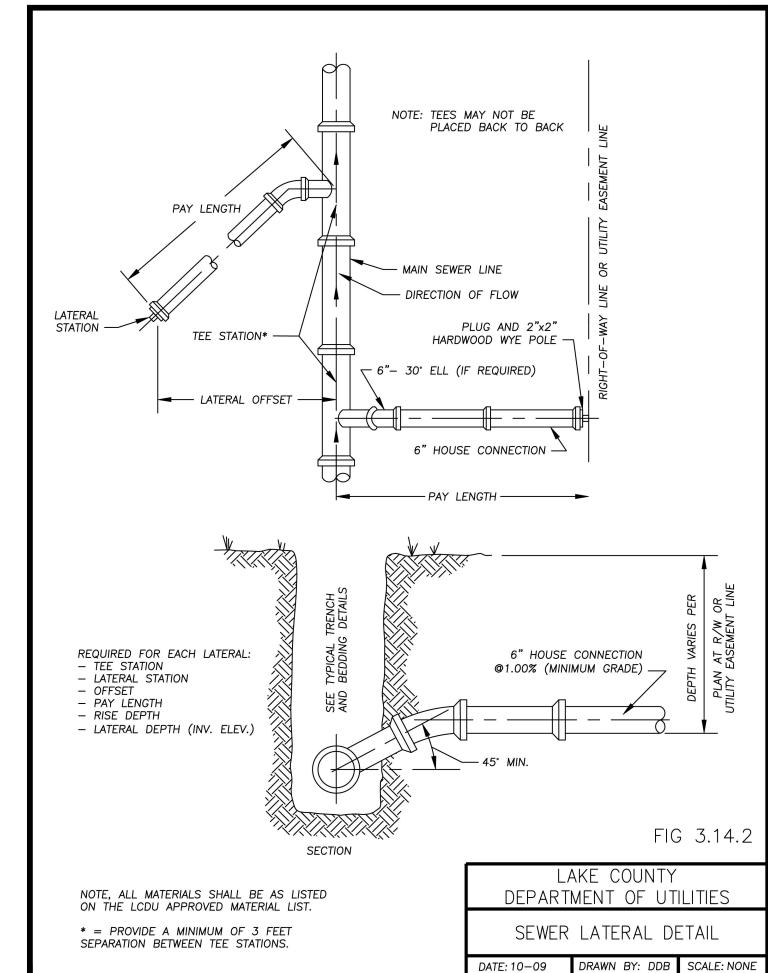
3. WHEN SHEETING, STAY BRACING OR A TRENCH BOX IS USED OR UNSTABLE TRENCH WALLS ARE

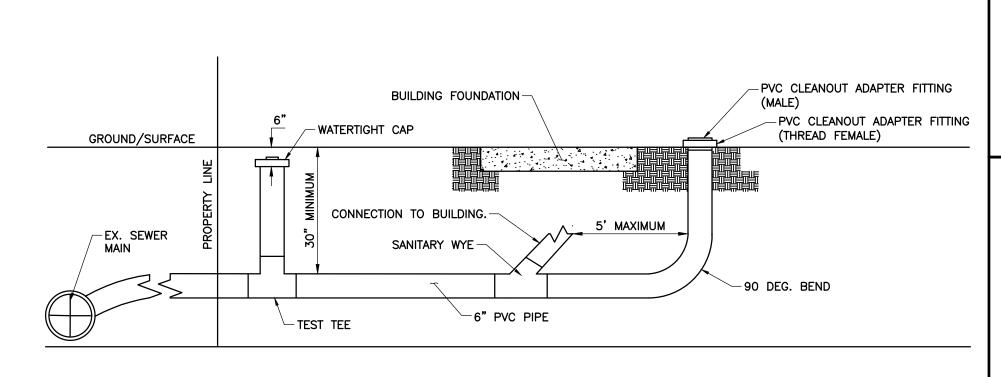
ENCOUNTERED, THE BEDDING WIDTH SHALL BE FIVE (5) PIPE DIAMETERS. SLAG BEDDING SHALL NOT BE USED. 5. CLAY DAMS SHALL BE REQUIRED WHEN AND WHERE NECESSARY PER THE SOLE DISCRETION OF THE LCDU. 6. THESE SPECIFICATIONS ARE TO BE CONSIDERED MINIMUM REQUIREMENTS AND ARE SUPERSEDED BY THE REQUIREMENTS OF THE LOCAL AUTHORITY WITH JURISDICTION OVER THE ROADWAY, WHEN APPLICABLE. FIG 3.17.2 7. ALL BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1.24. LAKE COUNTY DEPARTMENT OF UTILITIES STANDARD FLEXIBLE PIPE TRENCH AND BEDDING DETAILS

DATE: 10-09 DRAWN BY: DDB SCALE: NONE



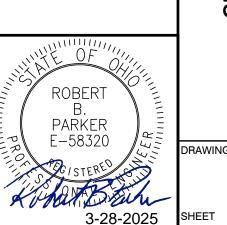






# TYPICAL GRAVITY BUILDING SEWER/SERVICE CONNECTION N.T.S.



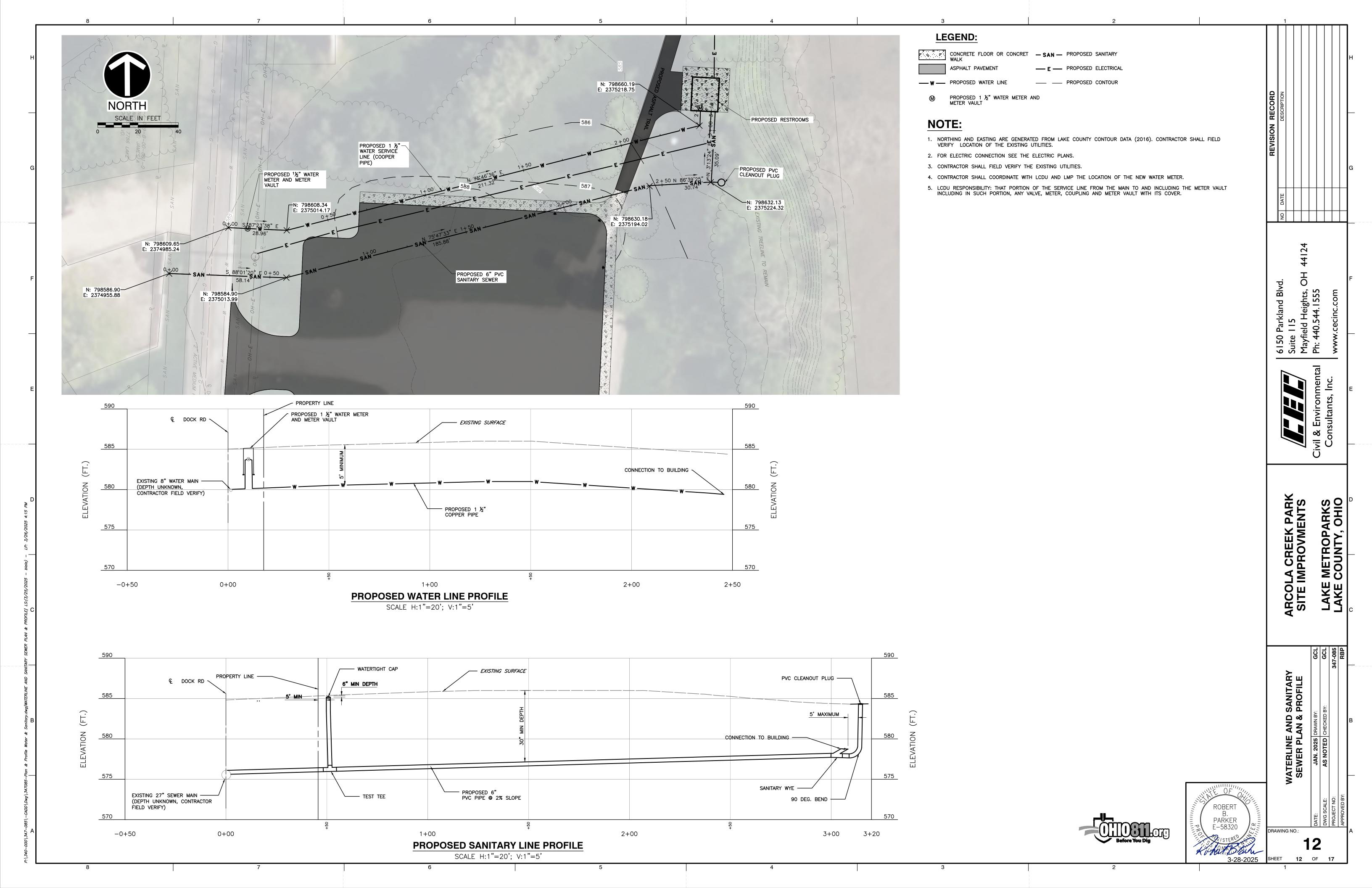


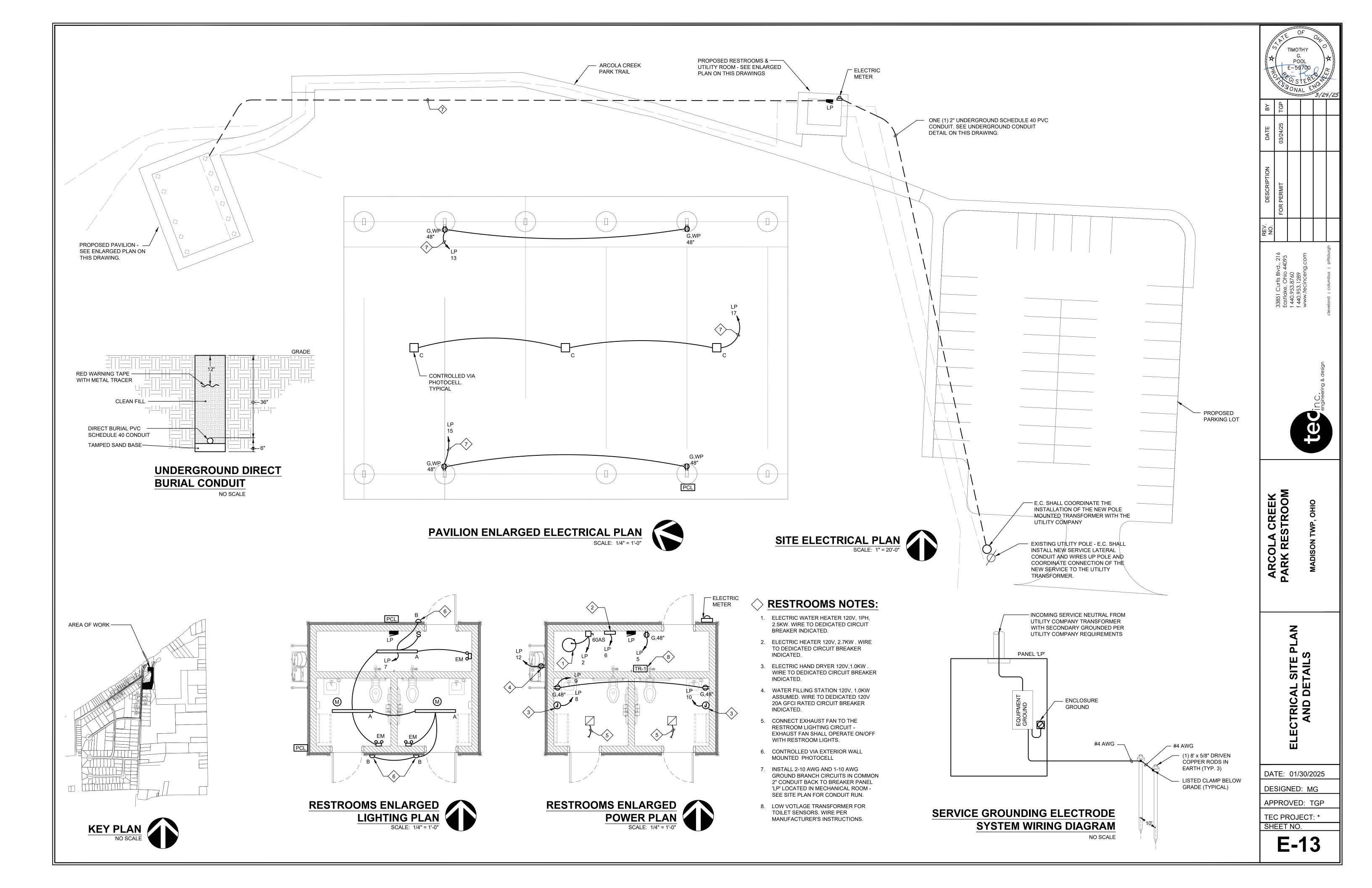
AWING NO.:

**11** OF **17** 

6150 Par Suite 115 Mayfield Ph: 440.5

ARCOLA CREEK PARK SITE IMPROVMENTS LAKE METROPARKS LAKE COUNTY, OHIO





#### SECTION 260000 - ELECTRICAL SPECIFICATIONS

#### PART 1 GENERAL

- 1.1 PROVIDE ALL LABOR AND MATERIAL FOR ALL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, OR REASONABLY IMPLIED, TESTED AND READY FOR USE BY THE OWNER.
- 1.2 REFER TO THE ARCHITECTURAL AND OTHER CONTRACT DOCUMENTS FOR THE PROJECT. ELECTRICAL WORK AND/OR COORDINATION ITEMS INDICATED ON THESE DOCUMENTS ARE A PART OF THE ELECTRICAL SCOPE OF WORK.
- DISCREPANCIES BETWEEN EACH DIVISION'S DOCUMENTS OR BETWEEN THE DOCUMENTS AND THE EXISTING SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE SUBMITTING A BID.
- 1.4 THE ELECTRICAL SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EQUIPMENT OR SYSTEMS:
  - LIGHTING AND LIGHTING CONTROLS
  - WIRING DEVICES
  - BRANCH CIRCUIT PANELBOARDS
  - UTILITY SERVICE INSTALLATION DRAWINGS
  - GROUNDING AND GROUNDING SYSTEMS
  - NEW POWER UTILITY SERVICES
  - CONNECTIONS AND POWER CIRCUITS FOR EQUIPMENT PROVIDED UNDER ANOTHER DIVISION, OR BY THE OWNER.
- 1.5 SUBMITTALS, OR SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING EQUIPMENT OR SYSTEMS:
  - LIGHTING AND LIGHTING CONTROLS
  - WIRING DEVICES
  - BRANCH CIRCUIT PANELBOARDS
  - UTILITY SERVICE INSTALLATION DRAWINGS
  - PROVIDE SUBMITTALS ONLY FOR EQUIPMENT LISTED ABOVE. ALL SUBMITTALS MUST BE REVIEWED FOR PROPER CONTENT AND ACCURACY BY THE CONTRACTOR BEFORE SUBMISSION TO THE ENGINEER.
  - SUBMITTALS SHALL BE REVIEWED ONLY FOR GENERAL COMPLIANCE AND NOT FOR DIMENSIONS, QUANTITIES, ETC. THE SUBMITTALS THAT ARE RETURNED SHALL BE USED FOR PROCUREMENT. THE RESPONSIBILITY OF CORRECT PROCUREMENT REMAINS SOLELY WITH THE CONTRACTOR. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS AND DEVIATIONS FROM THE CONTRACT REQUIREMENTS. ELECTRONIC COPIES ARE REQUIRED. REFER TO DIVISION 1 FOR EXACT QUANTITIES AND OTHER SUBMITTAL REQUIREMENTS.
- OBTAIN AND PAY FOR LOCAL PERMITS, LICENSES, AND INSPECTION FEES NECESSARY FOR THE WORK. PERMANENT AND TEMPORARY UTILITY SERVICE INSTALLATION CHARGES ARE NOT INCLUDED IN THE BASE-BID WORK; SUCH CHARGES ARE INCLUDED AS AN ALLOWANCE OF 15000 IN THE CONTRACT. THE UN-USED PORTION OF THIS ALLOWANCE SHALL BE RETURNED TO THE OWNER AT THE COMPLETION OF THE PROJECT. THIS CONTRACTOR IS RESPONSIBLE FOR CONTACTS WITH UTILITY COMPANIES, AND FOR ARRANGEMENT OF WORK ORDERS.
- TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED TO OSHA REQUIREMENTS FOR THE CONSTRUCTION PERIOD. TEMPORARY UTILITY POWER WILL BE BROUGHT TO THE SITE UNDER THIS CONTRACT, BUT THE OWNER WILL PAY FOR RELATED MONTHLY CHARGES.
- SUBMISSION OF A BID ASSUMES KNOWLEDGE OF ALL DOCUMENTS AVAILABLE RELATED TO THE WORK, AS WELL AS EXISTING CONDITIONS MADE AVAILABLE FOR REVIEW AND INSPECTION DURING THE BIDDING PERIOD. THIS CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE OF ANY UNKNOWN AND/OR CONCEALED CONDITIONS AFFECTING THE NEW WORK, AS THEY ARE DISCOVERED.
- 1.9 WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN: FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- THE ELECTRIC SERVICE, THE ELECTRICAL DISTRIBUTION SYSTEM AND ALL NON-CURREN CARRYING METAL PARTS OF THE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE CODES AND STANDARDS. ALL BRANCH CIRCUITS AND FEEDERS SHALL BE GROUNDED BY MEANS OF AN INSULATED GROUNDING CONDUCTOR INSTALLED WITHIN EACH RACEWAY. THE ENTIRE GROUNDING SYSTEM SHALL BE TESTED FOR CONTINUITY AT THE COMPLETION OF THE WORK.
- 1.11 THE NEW MATERIAL AND LABOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE BY THE OWNERS' REPRESENTATIVE. NOTE THAT CERTAIN SPECIFIED ITEMS OF EQUIPMENT MAY CARRY A LONGER PERIOD OF WARRANTEE.

# PART 2 PRODUCTS

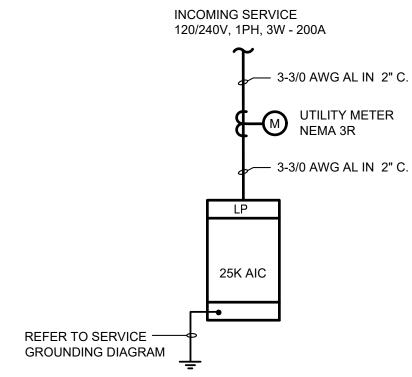
- 2.1 ALL MATERIAL, EQUIPMENT INSTALLATION AND LABOR SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE NATIONAL. STATE AND LOCAL CODES AND NFPA PUBLICATIONS. AS INTERPRETED BY THE AUTHORITY HAVING JURISDICTION. THIS CONTRACTOR MUST ADHERE TO PROPER INSTALLATION TECHNIQUES IN ACCORDANCE WITH INDUSTRY STANDARDS AS DEFINED BY ANSI AND NECA. IN ADDITION, OSHA REQUIREMENTS AND ANY SITE-SPECIFIC SAFETY STANDARDS SHALL BE FOLLOWED FOR SAFETY OF PERSONNEL ON SITE. NEW EQUIPMENT SHALL BE UL AND/OR CSA LISTED.
- WIRING DEVICES SHALL BE "SPECIFICATION GRADE", AND SHALL BE OF ONE MANUFACTURER, WITH MATCHING PLASTIC PLATES. HUBBELL DEVICES ARE LISTED; LEVITON AND PASS & SEYMOUR DEVICES WITH EQUAL SPECIFICATIONS MAY BE SUPPLIED. IVORY DEVICES AND PLATES SHALL BE PROVIDED, UNLESS OTHERWISE REQUESTED. THE OWNERS' REPRESENTATIVE WILL CONFIRM COLORS OF DEVICES AND PLATES DURING THESUBMITTAL APPROVAL PROCESS. UNLESS NOTED OTHERWISE, STANDARD DEVICES SHALL BE:
  - LIGHT SWITCHES: 120/277 VOLT, QUIET TYPE, HUBBELL #1221 (SINGLE POLE), #1223 (THREE-WAY) AND #1224 (FOUR-WAY).
  - GENERAL PURPOSE RECEPTACLES: 125 VOLT, 20 AMPERE, 2-POLE, 3-WIRE, DUPLEX TYPE, NEMA 5-20R, HUBBELL #5362.
  - GFCI RECEPTACLES: 125 VOLT, 20 AMPERE, 2-POLE, 3-WIRE DUPLEX TYPE, NEMA 5-20R, HUBBELL #GFR-5362 SELF-TESTING AND FEED-THRU TYPE CAPABLE OF PROTECTING DOWNSTREAM CIRCUIT DEVICES.
  - EXTERIOR RECEPTACLES: PROVIDE A GFCI RECEPTACLE WITH A TAYMAC #MX4380S, METAL EXTRA DUTY "IN-USE" COVER AND HORIZONTAL MOUNTED BOX.
  - LINE-VOLTAGE CEILING OCCUPANCY SENSORS: WATTSTOPPER #DT-355 SERIES, DUAL TECHNOLOGY, 120/277 VOLT, 800W/1200W RATED, WITH 360° COVERAGE. SENSOR SWITCH TYPE CMR-PDT-9 IS CONSIDERED AN EQUIVALENT.
  - WIRING DEVICES SHALL BE PROVIDED WITH A GROUNDED WIRE CONNECTED TO THE DEVICE AND/OR THE OUTLET BOX.
- ALL WRING SHALL BE COPPER, 90 DEGREE C. RATED, TYPE THHN, THWN OR XHHW, WITH 600-VOLT INSULATION UNLESS INDICATED OTHERWISE ON THE DRAWINGS. THE MINIMUM WIRE SIZE IS #12 FOR 120-VOLT BRANCH CIRCUIT; #10 SHALL BE USED FOR CIRCUIT LENGTHS GREATER THAN 150 FEET.

- FOR NEW DISTRIBUTION SYSTEMS COLOR CODE BRANCH CIRCUIT AND FEEDER CONDUCTORS AS FOLLOWS:
  - 120/240 VOLT, 1 PHASE, 3 WIRE SYSTEM
  - PHASE A-BLACK PHASE B-RED
  - **NEUTRAL-WHITE**
  - **GROUND-GREEN**
- 2.4 ALL WIRING SHALL BE INSTALLED IN CONDUIT, AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. AT THE CONTRACTOR'S OPTION, AND AS PERMITTED BY THE NATIONAL ELECTRICAL CODE, TYPE MC CABLE, OR A MANUFACTURED WIRING SYSTEM MAY BE USED FOR 20 AMPERE AND 30 AMPERE BRANCH CIRCUITS IN STUD WALLS AND ABOVE ACCESSIBLE LAY-IN CEILINGS IN LIEU OF CONDUIT AND WIRE. HOMERUNS TO PANELS SHALL BE IN CONDUIT. PVC CONDUIT MAY BE USED FOR EXTERIOR UNDERGROUND CIRCUITS AND FOR INTERIOR CIRCUITS AND FEEDERS LOCATED UNDER THE GROUND FLOOR SLAB
- LIGHTING FIXTURES AND ASSOCIATED DRIVERS, AND LIGHTING CONTROLS SHALL BE AS INDICATED ON THE DRAWINGS, COMPLETE WITH PROPER LEDS, ACCESSORIES AND SUPPORTS AS RECOMMENDED BY THE MANUFACTURER AND IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, ARTICLES 410 AND 411, OR ANY LOCAL CODES THAT MAY APPLY.
  - IMMEDIATELY PRECEDING THE FINAL INSPECTION, THIS CONTRACTOR SHALL THOROUGHLY CLEAN ALL FIXTURES OF DUST, DIRT, GREASE, FINGERMARKS, ETC. ALL FIXTURES SHALL BE OPERATING AT THE TIME OF OWNER'S ACCEPTANCE.
- PANELBOARDS, DISCONNECTS, AND OTHER POWER DISTRIBUTION EQUIPMENT SHALL BE PROVIDED FROM ONE MANUFACTURER WHEREVER POSSIBLE. APPROVED MANUFACTURERS ARE SQUARE D, GENERAL ELECTRIC, SIEMENS/ITE OR CUTLER HAMMER. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE, UNLESS INDICATED OTHERWISE ON THE DRAWINGS, WITH INTERRUPTING RATINGS EQUAL TO OR GREATER THAN FAULT CURRENTS AVAILABLE AT THE POINT OF SERVICE, 10 KAIC MINIMUM FOR 240Y/120 VOLT SYSTEM.
  - BRANCH CIRCUIT PANELS SHALL BE SURFACE MOUNTED AS INDICATED, LOCKABLE AND KEYED ALIKE, AND SHALL HAVE A DOOR-IN-DOOR COVER.
  - BUSSING FOR PANELBOARDS OR SWITCHBOARDS SHALL BE COPPER.
- NON-FUSED DISCONNECT SWITCHES SHALL BE HEAVY DUTY WITH QUICK MAKE/ QUICK BREAK OPERATION, WITH A NEMA 1 RATING (INTERIOR) OR NEMA 3R RATING (EXTERIOR) UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
- 2.8 NAMEPLATES SHALL BE PROVIDED FOR IDENTIFICATION OF ALL POWER DISTRIBUTION EQUIPMENT AND SHALL BE ENGRAVED PHENOLIC WITH WHITE LETTERING AND BLACK BACKGROUND, UNLESS DIRECTED OTHERWISE BY THE OWNER'S REPRESENTATIVE.
  - SPARE CIRCUIT BREAKERS SHALL BE IDENTIFIED AS SUCH AND SHALL BE LEFT IN THE "OFF" POSITION AT THE CONCLUSION OF THE WORK.

#### PART 3 EXECUTION

- COORDINATE THE ELECTRICAL WORK WITH ALL OTHER TRADES ON SITE, INCLUDING CORE DRILL LOCATIONS AND FEEDER ROUTINGS. PROVIDE LAYOUT DRAWINGS FOR ELECTRICAL ROOM AND SUBMIT COPIES TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL BEFORE ROUGHING-IN CONDUITS AND EQUIPMENT
- SERVE AND CONNECT ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHER DIVISIONS OR OWNER. COORDINATE ALL OUTLET LOCATIONS AND CONNECTION REQUIREMENTS WITH THE CONTRACTOR FURNISHING THE EQUIPMENT. BEFORE CONNECTING ANY PIECE OF EQUIPMENT, CHECK THE NAMEPLATE RATING AGAINST THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS AND CALL ANY DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE...
- 3.3 LOCATE AND PROVIDE ALL OPENINGS IN FLOORS, CEILINGS, AND WALLS TO ALLOW FOR CONDUIT PENETRATIONS.
  - SUBMIT TO THE OWNER'S REPRESENTATIVE ALL LOCATIONS AND SIZES OF OPENINGS WHICH MUST BE PROVIDED FOR THE WORK BEFORE DRILLING OR SETTING ANY SLEEVES.
  - SEAL EXTERNAL WALL PENETRATIONS WHERE CONDUIT PASSES FROM A COLDER AREA TO A WARMER AREA.
- PROVIDE THE PROPER CONNECTION AND/OR DISCONNECT AND OVER-CURRENT PROTECTION FOR OWNER AND DIVISION 15 EQUIPMENT, BASED UPON THE CONTRACT SCHEMATIC BEFORE ROUGH IN.
- 3.5 ELECTRICAL EQUIPMENT SHALL BE STORED IN A HEATED AND VENTILATED SPACE UNTIL READY FOR DELIVERY TO THE FINISHED EQUIPMENT SPACE ON THE SITE.
- 3.6 FOR FEEDERS AND EQUIPMENT CIRCUITS 40 AMPERE RATED AND ABOVE, THE INTENT OF THE DESIGN IS TO INSTALL A MAXIMUM OF THREE (3) CURRENT-CARRYING CONDUCTORS IN A SINGLE CONDUIT (RACEWAY), UTILIZING THE FULL CONDUCTOR AMPACITIES ALLOWED AND DEFINED IN THE NATIONAL ELECTRICAL CODE ARTICLE 310. COMBINING OF FOUR (4) OR MORE CURRENT-CARRYING CONDUCTORS IN A SINGLE RACEWAY MUST BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- 3.7 UNLESS SPECIFICALLY REQUESTED BY THE OWNER'S REPRESENTATIVE, CEILING AND WALL MOUNTED OCCUPANCY SENSORS SHALL BE SET WITH DEFAULT TIMES, AS
  - STORAGE AREAS 5 MINUTES PUBLIC RESTROOMS - 30 MINUTES
- CEILING MOUNTED OCCUPANCY SENSORS SHALL BE POSITIONED AND ADJUSTED BY THE CONTRACTOR TO ELIMINATE NUISANCE OPERATION OF THE CIRCUIT FROM HVAC DIFFUSERS OR MOVEMENT OUTSIDE THE CONTROLLED AREA OR ROOM

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SFARE							1	3	В	4	20/1							SPARE
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SPARE							20/1	11	В	12	20/1				1.0			WATER FILLING ST
PAVILION POWER							20/1	13	Α	14	20/1							SPARE
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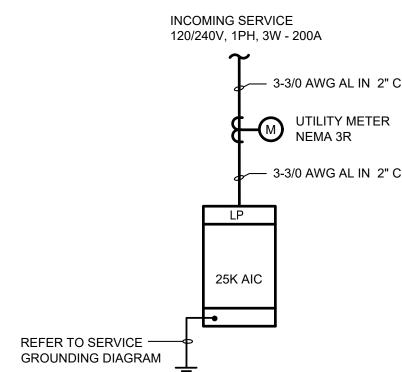


ONE LINE DIAGRAM

	LUMINAIRE SCHEDULE							
TYPE	LUMIN		LAMP	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG	REMARKS
	WAIIS	VOLIS	TYPE				NUMBER	
А	35	120	LED 4000K 4300 LUMENS	4' SURFACE MOUNTED LINEAR STRIP	SURFACE	LITHONIA LIGHTING	CSVT-L48-5000LM- MVOLT-40K-80CRI	
В	14	120	LED 4000K 950 LUMENS	OUTDOOR WALL SCONCE WITH DARK BRONZE FINISH	WALL / SURFACE	LITHONIA LIGHTING	OLLWD-LED-P1- 40K-120-DDB	
С	40	120	LED 4000K 5500 LUMENS	LED SQUARE CANOPY LUMINAIRE	SURFACE	PORTOR LIGHTING	PT-CAT-2-LW-3CP-	
⊟M	2.5	120	I ED	WHITE THERMOPLASTIC DUAL SQUARE HEAD EMERGENCY LIGHT	SURFACE/ WALL	COMPASS LIGHTING	CU2SQ	1

# SCHEDULE NOTES:

1. WIRE EMERGENCY LIGHTS AHEAD OF ALL CONTROLS.



# **ELECTRICAL GENERAL NOTES**

- A. THE ELECTRICAL INSTALLATION MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND ANY APPLICABLE STATE OR LOCAL CODES, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- B. BRANCH CIRCUIT WIRING FOR EMERGENCY LIGHTING BATTERY PACKS AND EXIT LIGHTS SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH ARTICLE 700 OF THE NATIONAL ELECTRICAL CODE.
- C. ALL WIRE FOR POWER, LIGHTING, AND CONTROL SYSTEMS SHALL BE 600 VOLT THHN-THWN, 90 DEGREE INSULATED AND SHALL BE COPPER. ALL WIRE FOR COMMUNICATIONS SYSTEMS SHALL BE COPPER.
- D. ALL INTERIOR WIRING SHALL BE RUN IN EMT THIN-WALL THREADLESS CONDUIT OR PVC WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
- E. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED OR LABELED.
- F. COORDINATE THE ELECTRICAL WORK WITH ALL TRADES ON SITE AND WITH THE OWNER'S REPRESENTATIVE. REFER TO THE PLANS AND DETAILS SHOWING THE ARCHITECTURAL, MECHANICAL AND PLUMBING WORK TO PROPERLY PLAN AND INSTALL THE ELECTRICAL SYSTEMS.
- G. ALL UNDERGROUND PVC CONDUITS SHALL TRANSITION TO RIGID STEEL CONDUIT ABOVE GRADE TO A HEIGHT OF 8'-0" FOR PROTECTION FROM PHYSICAL DAMAGE PER N.E.C. ARTICLE 352. PROVIDE EXPANSION FITTINGS.
- H. ALL UNDERGROUND CONDUCTORS SHALL BE IN COMPLIANCE WITH N.E.C. ARTICLE 310.10(C), SUITABLE FOR USE IN WET LOCATIONS.
- UNDERGROUND PVC CONDUIT SHALL BE ROUTED AT MINIMUM DEPTH OF 36" BELOW GRADE, NO SPACING SUPPORTS OR WIRING RIBBON REQUIRED FOR DIRECT BORING TYPE INSTALLATION. ALL WORK SHALL COMPLY WITH N.E.C. ARTICLE 300.5 AND 352

# **ELECTRICAL SYMBOLS**

BRANCH CIRCUIT HOMERUN TO PANEL "A", CIRCUIT #3 AND #5. PROVIDE THE PROPER QUANTITY OF MIN SIZE 12 AWG CONDUCTORS FOR THE CIRCUIT(S) INDICATED. A SEPARATE GROUNDING CONDUCTOR IS REQUIRED FOR ALL BRANCH CIRCUITS.

SINGLE POLE SWITCH - MOUNTING AT 48" A.F.F.

OCCUPANCY SENSOR SWITCH - CEILING MOUNTED. PROVIDE ONE POWER PACK PER ZONE TO BE CONTROLLED. POWER PACKS ARE NOT SHOWN ON PLANS

EXTERIOR WALL MOUNTED PHOTOCELL W/ WEATHERPROOF COVER

LIGHT FIXTURE TYPE 'A' - SEE LIGHTING SCHEDULE.

TRANSFORMER - SLOAN, EL-154; (50 VA (WATTS)) (0.42A)

EMERGENCY BATTERY PACK, WALL MOUNTED

DUPLEX RECEPTACLE - MOUNTING AT 18" A.F.F.

10 48" DUPLEX RECEPTACLE - INDICATES MOUNTING AT 48" A.F.F.

DUPLEX RECEPTACLE - GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE

WP GFCI TYPE DUPLEX RECEPTACLE IN WEATHERPROOF ENGLOSURE WEATHERPROOF ENCLOSURE

JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED

PANELBOARD - 0 TO 150 VOLTS TO GROUND 60AS UNFUSED DISCONNECT SWITCH - "60/2" INDICATES 60

AMPERE SWITCH RATING AND POLES

(M) ONE-LINE DIAGRAM REPRESENTATION OF A METER PLAN NOTE TAG, REFER TO PLANS FOR DESCRIPTION

ABOVE FINISHED FLOOR

MCB MAIN CIRCUIT BREAKER

E-59700



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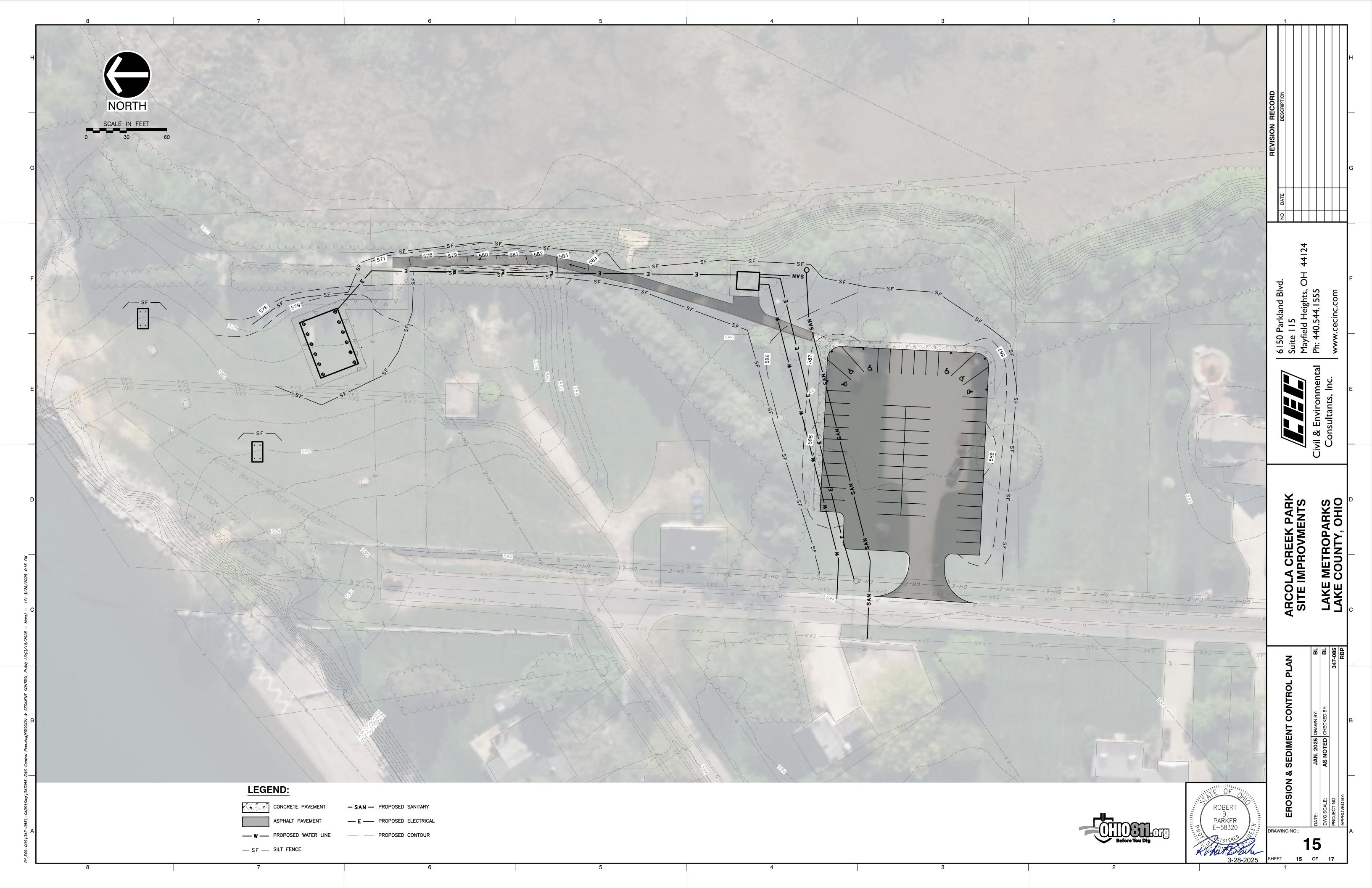
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DATE: 01/30/2025 DESIGNED: MG

APPROVED: TGP

TEC PROJECT: \*

SHEET NO.



PHONF.

CONTACT:

6150 PARKLAND BOULEVARD MAYFIELD HEIGHTS, OHIO 44124 (440) 544-1555 CONTACT: ROBERT B. PARKER, P.E.

EMAIL: RPARKER@CECINC.COM OWNER/DEVELOPER: LAKE METROPARKS 11211 SPEAR ROAD CONCORD TOWNSHIP, OHIO 44077

TIM LANE (440) 639-7275 TLANE@LAKEMETROPARKS.COM

PROJECT DESCRIPTION: ARCOLA CREEK PARK PARKING AND SIGHT IMPROVEMENTS

RECEIVING BODY OF WATER: ARCOLA CREEK

**EROSION AND SEDIMENT** MEASURES:

MEASURES WILL INCLUDE COMPOST FILTER SOCK

PERMANENT STABILIZATION: THE SITE WILL BE STABILIZED BY THE USE OF TEMPORARY AND PERMANENT SEEDING APPLICATIONS.

**MAINTENANCE:** 

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT DAILY AND AFTER SIGNIFICANT RAINFALLS. ANY DAMAGED FACILITIES ARE TO BE REPLACED/REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

CONSTRUCTION SEQUENCE:

1. CLEAR AND GRUB AS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES.

2. INSTALL SILT FENCE / COMPOST FILTER SOCK. 3. CONSTRUCT SANITARY IMPROVEMENTS.

4. PERMANENTLY STABILIZE/SEED DISTURBED AREAS PER SPECIFICATIONS.

5. REMOVE REMAINING EROSION AND SEDIMENT CONTROL DEVICES.

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.

TOTAL ACREAGE WITHIN PROJECT AREA: 1.76 AC TOTAL DISTURBED ACREAGE: 0.84 AC PRE PROJECT IMPERVIOUS SITE AREA: 0.30 AC PRE PROJECT % IMPERVIOUS SITE AREA: 0.17 % 0.59 AC POST PROJECT IMPERVIOUS SITE AREA: POST PROJECT % IMPERVIOUS SITE AREA: 0.34 %

RUNOFF COEFFICIENT: THE RUNOFF CURVE NUMBER WILL NOT INCREASE AS NO NEW IMPERVIOUS AREAS WILL BE ADDED OR REMOVED.

CONNEAUT SILT LOAM, SHALE SUBSTRATUM, 0 TO 2 PERCENT SLOPES CwA

FACILITY PERMIT NUMBER: NOT APPLICABLE

OHIO EPA **GENERAL PERMIT:** 

A COPY OF THE SWPPP PLAN AND THE APPROVED OHIO EPA STORMWATER PERMIT (WITH THE SITE SPECIFIC NOI NUMBER) SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE ENGINEER, THE COUNTY INSPECTORS, AND THE OEPA AT ALL TIMES.

# SITE DESCRIPTION

- 1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER IMPROVEMENTS COMPLETED.
- 2. SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE FILTERED.
- 3. SEDIMENT BARRIERS SUCH AS SEDIMENT FENCE SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.
- PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER.
- THE LIMITS OF SEEDING AND MULCHING WILL EXTEND OVER THE PROJECT AREA IN ACCORDANCE WITH THE LEVEL OF DISTURBANCE ASSOCIATED WITH THE ACTUAL CONSTRUCTION SEQUENCE. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

# **MAINTENANCE & INSPECTIONS**

- ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED.
- 2. AT A MINIMUM, CONTROLS ONSITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 1/2 INCH OF RAIN PER 24-HOUR PERIOD. THE PERMITTEE SHALL ASSIGN QUALIFIED INSPECTION PERSONNEL TO CONDUCT THESE INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONAL AND TO EVALUATE WHETHER THE SWP3 IS ADEQUATE AND PROPERLY IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE PROPOSED. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING.
- THE PERMITTEE SHALL MAINTAIN FOR THREE YEARS FOLLOWING THE SUBMITTAL OF A NOTICE OF TERMINATION FORM, A RECORD SUMMARIZING THE RESULTS OF THE INSPECTIONS, NAMES OF QUALIFIED PERSONNEL MAKING THE INSPECTIONS, THE DATES OF INSPECTIONS, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP3 AND A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SWP3 AND THE PERMIT AND IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. THE RECORD AND CERTIFICATION SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THE GENERAL PERMIT.

### **CONTRACTOR RESPONSIBILITIES**

- DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE AND INSPECTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.
- 2. THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. THE SCHEDULE SHOULD INCLUDE A SEQUENCE OF THE PLACEMENT OF THE SEDIMENTATION AND EROSION CONTROL MEASURES THAT PROVIDES FOR CONTINUAL PROTECTION OF THE SITE THROUGHOUT THE EARTH MOVING ACTIVITIES.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFF-SITE SEDIMENT SHALL BE

## **SILT FENCE**

#### DESCRIPTION:

A SILT FENCE IS A SEDIMENT-TRAPPING PRACTICE UTILIZING A GEOTEXTILE FENCE, TOPOGRAPHY AND SOMETIMES VEGETATION TO CAUSE SEDIMENT DEPOSITION. SILT FENCE REDUCES RUNOFF'S ABILITY TO TRANSPORT SEDIMENT BY PONDING RUNOFF AND DISSIPATING SMALL RILLS OF CONCENTRATED FLOW INTO UNIFORM SHEET FLOW. SILT FENCE IS USED TO PREVENT SEDIMENT-LADEN SHEET RUNOFF FROM ENTERING INTO DOWNSTREAM CREEKS AND SEWER SYSTEMS.

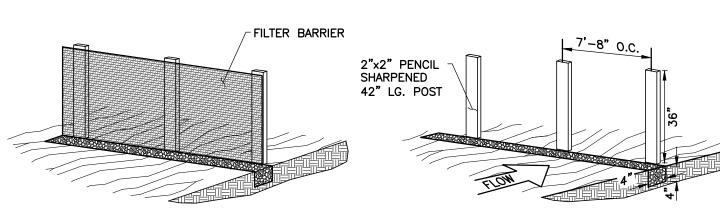
#### SPECIFICATIONS FOR SILT FENCE

- 1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- 2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WIL BE PREVENTED FROM FLOWING AROUND THE ENDS. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH
- 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6 INCHES OVERLAP PRIOR TO DRIVING INTO THE GROUND. (SEE DETAILS)
- MAINTENANCE SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW DISCHARGE. ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.
- SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

# CRITERIA FOR SILT FENCE MATERIALS:

- FENCE POSTS THE LENGTH SHALL BE A MINIMUM OF 42 INCHES LONG. WOOD POSTS WILL BE 2-BY-2 INCH NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER
- 2. SILT FENCE FABRIC (SEE CHART BELOW):

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	< OR = 0.84 MM	ASTM D4751
MINIMUM PERMITTIVITY	1X10-2 SEC1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355



THE USE OF STRAW WATTLES HAS BEEN PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.

STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER PER THE OEPA.

THE USE OF COMPOST FILTER SOCKS AND COMPOSITE BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES

# SILT FENCE DETAIL

NOT TO SCALE

COMPOST FILTER SOCK-

BLOWN/PLACED -

DISTURBED AREA

DISTURBED AREA

UNDISTURBED AREA

<u>PLAN VIEW</u>

MAXIMUM SLOPE LENGTHS AND

RECOMMENDED FILTER SOCK DIAMETER

125' | 250' | 300' |

10% - 20% | 75' | 100' | 150' | 200' | 250'

20% - 50% | --- | 50' | 75' | 100' | 125'

8" | 12" | 18" | 24" |

| 100' | 125' | 200' | 250' | 300'

--- | 25' | 50' | 75' | 100'

350' | 400'

FILTER MEDIA

COMPOST

0% - 2%

>50%

2% - 10%

FILTER

SOCK

−2 IN. x 2 IN.

UNDISTURBED AREA

CENTER

WOODEN STAKES

PLACED 10 FT ON

- EXISTING

2 IN. x 2 IN.

ON CENTER

WOODEN STAKES

PLACED 10 FT

CONTOURS

- 1. INSTALL AND SIZE FILTER SOCKS IN ACCORDANCE WITH THE RECOMMENDATIONS OF CHAPTER 6.6 OF THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL
- 2. MATERIALS COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN, AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS, OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".
- 3. FILTER SOCKS SHALL BE 3 TO 5 MIL CONTINUOUS, TUBULAR, HDPE 3 KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPST MATERIAL.

## 4. INSTALLATION:

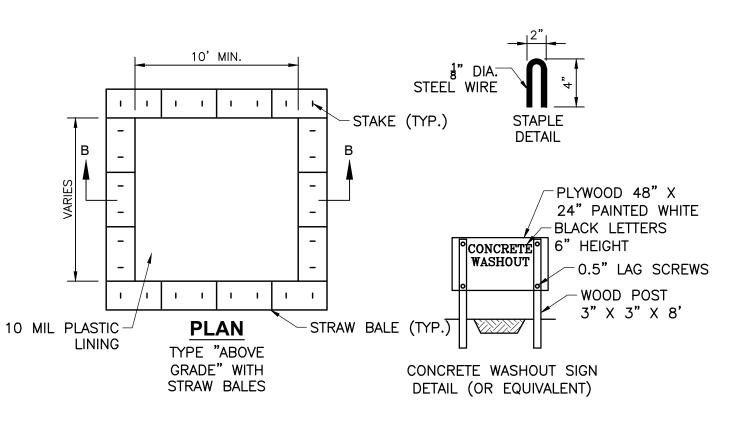
- 4.1. FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS-NEEDED MID-SLOPE, END SHALL BE WINGED UPSLOPE FOR A MINIMUM OF 4 FEET TO PREVENT CIRCUMVENTION.
- 4.2. FILTER SOCKS INTENDED TO BE LEFT AS PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
- 4.3. WOODEN STAKES MAY BE PLACED EITHER THRU FILTER SOCKS OR ON THE DOWNHILL SIDE OF THE SOCKS- CONTRACTOR SHALL ENSURE STABILITY WITH PLACEMENT.

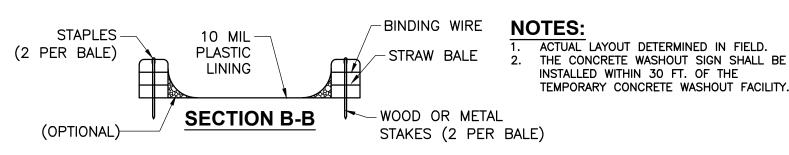
# 5. <u>MAINTENANCE</u>

- 5.1. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- 5.2. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCK WHEN THEY REACH HALF OF THE EXPOSED HEIGHT OF THE CONTROL.
- 5.3. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT SHALL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
- 5.4. FILTER SOCKS SHALL BE DISPERSED ONSITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDLINGS. THE MESH SHALL BE CUT OPEN AND REMOVED/DISPOSED, AND THE COMPOST SPREAD AS A SOIL SUPPLEMENT.

# COMPOST FILTER SOCK

N.T.S.

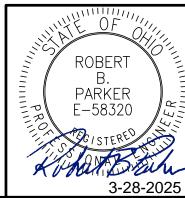




# **CONCRETE WASHOUT FACILITY**

N.T.S.





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ARCO| SITE

**16** OF **17** SHEET

PERMANENT SEEDING			
OFFD MIX	SEEL	NOTEC	
SEED MIX	LBS./ACRE	LBS./1,000 SQ. FEET	NOTES
•	GEN	ERAL USE	•
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20-40 10-20 20-40	1/2-1 1/4-1/2 1/2-1	FOR CLOSE MOWING & FOR WATERWAYS WITH < 2.0 FT/SEC VELOCITY
TALL FESCUE	40-50	1-1 1/4	
TURF-TYPE (DWARF) FESCUE	90	2 1/4	
	STEEP BANKS	OR CUT SLOPES	
TALL FESCUE	40-50	1-1 1/4	
CROWN VETCH TALL FESCUE	10-20 20-30	1/4-1/2 1/2-3/4	DO NOT SEED LATER THAN AUGUST
FLAT PEA TALL FESCUE	20-25 20-30	1/2-3/4 1/2-3/4	DO NOT SEED LATER THAN AUGUST
•	ROAD DITCH	HES AND SWALES	
TALL FESCUE	40-50	1-1 1/4	
TURF-TYPE (DWARF) FESCUE KENTUCKY BLUEGRASS	90 5	2 1/4 0.1	
•	l	AWNS	
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100-120	2 2	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	100-120	2 1-1/2	FOR SHADED AREAS

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED.

#### SITE PREPARATION

- 1. SUBSOILER, PLOW, OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
- 2. THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
- 3. TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

- 1. LIME AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER 1,000 SQ. FT. OR 2 TONS PER ACRE.
- 2. FERTILIZER FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN PLACE OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT
- A RATE OF 25 POUNDS PER 1,000 SQ. FT. OR 1000 POUNDS PER ACRE OF A 10-10-10 OR 12-12-12 ANALYSES. 3. THE LIME AND FERTILIZER SHALL BE WORKING INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD

## IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.

#### SEEDING DATES AND SOIL CONDITIONS

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE-SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT SEEDING.

#### DORMANT SEEDING

- 1. SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.
- 2. THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDING":
- FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY
- FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZER, APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
- APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED.
- WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

#### MULCHING

- 1. MULCH MATERIALS SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED. 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIAL.
- MATERIALS
- STRAW IF STRAW IS USED IT SHALL BE UNROTTEN SMALL—GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 POUNDS. (TWO TO THREE BALES) PER 1,000 SQ. FT. THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY APPLIED SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45-LB. BALES OF STRAW IN EACH SECTION.
- HYDROSEEDERS IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE APPLIED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.
- OTHER OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL MATTINGS OR BLANKETS APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.
- 3. STRAW AND MULCH ANCHORING METHODS

## STRAW AND MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.

- MECHANICAL A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY, BE LEFT LONGER THAN 6 INCHES.
- MULCH NETTING NETTING SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
- ASPHALT EMULSION ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT THE RATE OF 160 GALLONS PER ACRE.
- SYNTHETIC BINDERS SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUIVALENT MAY BE USED AT RATES SPECIFIED BY THE MANUFACTURER.
- WOOD CELLULOSE FIBER WOOD CELLULOSE FIBER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE CONTAINING A MAXIMUM OF 50 POUNDS CELLULOSE PER 100 GALLONS

PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY WEATHER OR ON ADVERSE SITE CONDITIONS, WHICH REQUIRE ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH. IRRIGATION RATES SHALL BE MONITORED TO PREVENT EROSION AND DAMAGE TO SEEDED AREAS FROM EXCESSIVE RUNOFF.

# PERMANENT SEEDING

DIVERSION RIDGE REQUIRED WHERE GRADE EXCEEDS 2% 2 % OR GREATER EXISTING PAVED ROADWAY - FILTER FABRIC SECTION A - A SEDIMENT BARRIER (STRAW SPILLWAY NOTE: USE SANDBAGS, STRAW BALE TYPE SHOWN) BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED. !"−3" COURSEå AGGREGATE MIN. 6" THICK - DIVERSION RIDGE 100' MIN. (TYP.)

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS- OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

<u>PLAN</u>

- 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC
- 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

# TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

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ARCOLA CREEK PARK SITE IMPROVMENTS LAKE METROPARKS LAKE COUNTY, OHIO

EROSION

**17** OF **17** 



# PROJECT INFORMATION

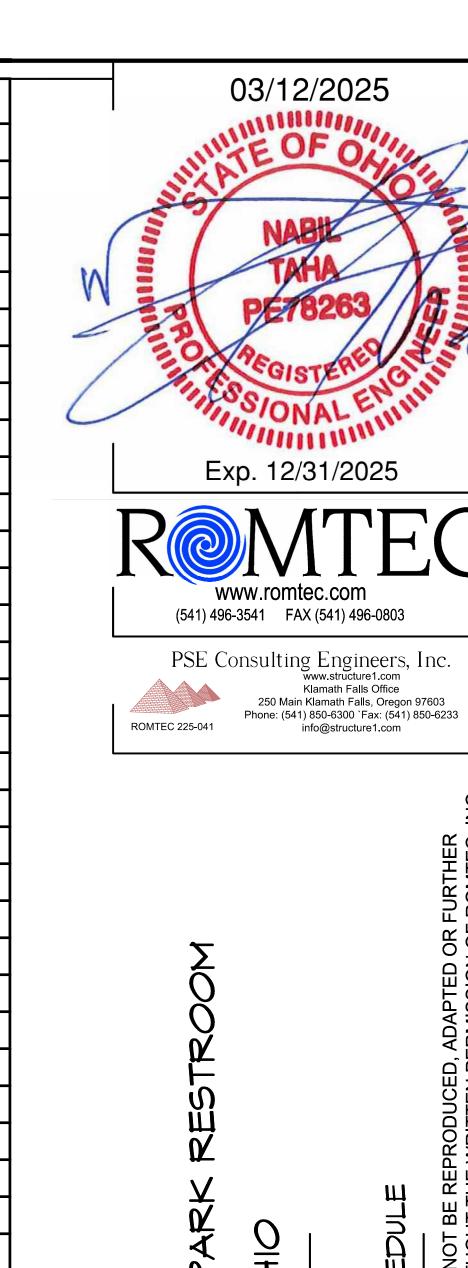
PROJECT NAME: ARCOLA CREEK PARK

PROJECT I.D.: ACPO1

SITE ADDRESS: 941 DOCK RD

CITY / STATE: MADISON TWP, OH 44057

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	REVISION SCHEDULE
REV. DATE	BY DESCRIPTION



ACP01

3/4/2025

**REVISIONS:** 

DRAWN BY:

# SYMBOL LEGEND MOOD FILLER WALL - SEE APPLICABLE SCHEDULE MINDOW NUMBER - SEE APPLICABLE SCHEDULE DOOR NUMBER - SEE APPLICABLE SCHEDULE DETAIL CALLOUT REFERENCE A3.1 ELEVATION VIEW BUILDING SECTION ABBREVIATIONS MASONRY OPENING ANCHOR BOLT ADULT CHANGING TABLE METAL ROOFING MS MILD STEEL ABOVE FINISHED FLOOR NAPKIN DISPOSAL AUTOMATIC TRANSFER SMITCH NTS NOT TO SCALE BOUNDARY NAIL ON CENTER BOTTOM OCEW ON CENTER EACH MAY BREAKER PANEL ORIENTED STRAND BOARD CONTROL JOINT PHOTO EYE CENTER LINE PCC PORTLAND CEMENT COMPANY CO CLEAN OUT PEN PANEL EDGE NAILING CONCRETE MASONRY UNIT PLATE NOMINAL BAR DIAMETER PSF POUNDS PER SQUARE FOOT DD DIAPER DECK PSI POUNDS PER SQUARE INCH DIAMETER PRESSURE TREATED DISC DISCONNECT PTD PAPER TOWEL DISPENSER ELECTRIC METER PV PHOTO VOLTAIC END NAIL R4S ROUGH FOUR SIDES EACH MAY REQD REQUIRED FREE AIR ROUGH OPENING FLOOR DRAIN SURFACED FOUR SIDES FINISHED FLOOR SCH SCHEDULE FINISHED GRADE SOAP DISPENSER FIELD NAIL STRUCTURAL INSULATED PANEL FIBERGLASS REINFORCED PANEL

GRAB BAR

HOSE BIBB

HEATER

HAND DRYER

HYPOTENUSE

LAVATORY

MINIMUM

MIRROR

LIGHT FIXTURE

GLUE LAMINATED BEAM

HOLLOW METAL (DOOR)

INSTALLER SUPPLIED

KIPS PER SQUARE INCH

MAIN BREAKER PANEL

MAIN DISCONNECT

STRUCTURAL STEEL ANGLE

HOLLOW STRUCTURAL SECTIONS

# GENERAL NOTES

- 1. THIS PROJECT SHALL COMPLY WITH ALL CODES AND STANDARDS IDENTIFIED ON SHEET G2. ALL WORK SHALL MEET OR EXCEED INDUSTRY STANDARDS FOR MATERIALS, WORKMANSHIP, ETC.
- 2. CONTRACTOR SHALL REVIEW THE DRAWINGS THOROUGHLY BEFORE PROCEEDING WITH ANY WORK. ANY DISCREPANCIES FOUND WITHIN THESE DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF ROMTEC. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK HE KNOWS TO BE IN CONFLICT WITH OTHER WORK, OR IS NOT APPROVED BY CODE, UNTIL RESOLVED BY ROMTEC OR THE ENGINEER/ARCHITECT.
- 3. CONTRACTOR SHALL MAINTAIN GENERAL LIABILITY INSURANCE AND WORKER'S COMP. INSURANCE AS PER SPECIFIC ( STATE MINIMUM REQUIREMENTS.
- 4. FOOTINGS SHALL BE CONSTRUCTED ON UNDISTURBED NATIVE SOIL OR ENGINEER APPROVED FILL. CONTRACTOR TO VERIFY ASSUMED SOIL BEARING CAPACITY NOTED ON SHEET G2. SHOULD SOIL NOT MEET OR EXCEED THE ASSUMED SOIL BEARING CAPACITY, CONTRACTOR TO MODIFY SOIL CONDITIONS TO SATISFY CRITERIA OR NOTIFY THE STRUCTURAL ENGINEER TO REVISE DESIGN PER CONDITIONS ENCOUNTERED. BACKFILL AROUND BUILDING TO PROVIDE SLOPE AWAY FROM BUILDING NOT LESS THAN A 2% SLOPE FOR A MINIMUM DISTANCE OF 10' FROM THE BUILDING, PER 2021 IBC 1804.3.
- 5. A. CAST-IN-PLACE CONCRETE: 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 4" +/- 1" SLUMP, WITH MAX 1" AGGREGATE, AND ALL MATERIALS IN ACCORDANCE WITH ACI 318 STANDARDS. FINE BROOM FINISH INTERIOR SURFACES AND EXTERIOR SLABS. JOINTS REQUIRED IN FLAT WORK, SEE FOUNDATION DETAILS FOR REQUIREMENTS.
- B. CMU BLOCKS "MEDIUM WEIGHT DENSITY" ARE MANUFACTURED TO ASTMC90-02 STANDARDS WITH A MIN COMPRESSIVE STRENGTH FM = 1500 PSI. ALL CMU BLOCKS MUST BE FULLY GROUTED IN 5 FT MAXIMUM LIFTS (EXCEPTION HIGH LIFT GROUTING FOR 8'-8" WALLS MAYBE USED AS LONG AS CLEANOUT OPENINGS ARE PROVIDED AT THE BOTTOM OF EVERY CELL FOR EACH POUR ABOVE 5 FT). THE MORTAR TO BE USED SHALL BE TYPE S 1800 PSI MORTAR CONFORMING TO ASTM C270. MASONRY (CONCRETE) GROUT: 2500 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 9" +/- 1" SLUMP, WITH MAX 1/2" AGGREGATE, AND TESTED IN ACCORDANCE TO MEET ACI 318. FINE OR COURSE GROUT MAY BE USED IN ACCORDANCE WITH 2021 IBC. CONSOLIDATE GROUT AT THE TIME OF PLACEMENT. CONSOLIDATE POURS EXCEEDING 12 IN. IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. CONSOLIDATION AND RECONSOLIDATION ARE NORMALLY ACHIEVED WITH A MECHANICAL VIBRATOR. A LOW VELOCITY VIBRATOR WITH A 3/4 IN. HEAD IS USED.
- 6. ANCHOR AND MACHINE BOLTS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE BOLTS SHALL BE INSTALLED PER TURN-OF-NUT INSTALLATION METHOD, REQUIRED TURNS FOR PRE-TENSIONING FROM SNUG-TIGHT, U.N.O. IN THIS PLAN SET OR BY ANCHOR BOLT OR FASTENER MANUFACTURER. SCREMS AND MACHINE BOLT CALLOUTS ARE MINIMUM SIZE ALLOMED, ACTUAL SIZE MAY VARY. HOLLOM STRUCTURAL SECTION (HSS) SHALL BE ASTM A500 GRADE B, Fy = 46 ksi. WIDE FLANGE BEAMS SHALL BE ASTM A992, Fy = 50 ksi. STEEL PLATES & SHAPES SHALL BE ASTM A36, Fy = 36 ksi. CONCRETE REINFORCING STEEL (REBAR): 60 ksi. (GRADE 60). WOOD FRAMING SHALL BE #2 & BETTER DOUGLAS FIR, UNO.
- GLU-LAM BEAMS SHALL BE GRADE 24F-V4.
- 7. QUESTIONS CONCERNING MATERIALS OR CONSTRUCTION CONTACT ROMTEC TECHNICAL ASSISTANCE AT: 541-496-3541
- 8. ROMTEC SCOPE SUPPLY AND DESIGN SUBMITTAL (SSDS) IDENTIFY SPECIFIC MODEL, MANUFACTURER & BRAND OF ALL PLUMBING AND ELECTRICAL FIXTURES AND ACCESSORIES. REFER TO THE SSDS FOR SPECIFIC LIST OF ITEMS SUPPLIED BY ROMTEC, ANY ITEMS NOT LISTED IN THE SSDS IS ASSUMED SUPPLIED BY THE INSTALLER.
- 9. THE OWNER / CONTRACTOR MAY EXERCISE DISCRETION IN SELECTING THE FINAL LOCATION FOR NON-DIMENSIONED ACCESSORIES AND FIXTURES (E.G., LIGHTS, COMFORT HEATERS, ETC.)

NOTE: ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR ANY SITE DESIGN OR ENGINEERING AND WILL NOT BE HELD ACCOUNTABLE OR LIABLE FOR ANY ISSUES RELATED TO THIS SITE. IT IS THE OWNER'S RESPONSIBILITY TO ACCURATELY LOCATE THIS BUILDING, SET FLOOR AND ADJACENT ELEVATIONS, DETERMINE SITE IS SUITABLE FOR CONSTRUCTION, VERIFY ALL UTILITIES, ETC.

RECYCLE

RECYCLE ALL USED SHIPPING MATERIALS AND LEFT OVER BUILDING MATERIALS NABILATE OF ON TAHA

PE78263

PE78263

PE78263

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Resulting National Results 

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IADISON TMP, OHIO

TITLE

ENERAL NOTES

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**REVISIONS:** 

SHEET NO.

SAM JOINT

T&B TOP & BOTTOM

TLT TOILET

SHEET METAL

SHEAR NAILING

STAINLESS STEEL

T&G TONGUE & GROOVE

TIMER SMITCH

TYPICAL

WH | MATER HEATER

WWM MOVEN MIRE MESH

TO BE DETERMINED

TOILET PAPER DISPENSER

UNO UNLESS NOTED OTHERWISE

VAPOR BARRIER

VTR VENT THROUGH ROOF

TOILET SEAT COVER DISPENSER

CODES AND STANDARDS

2024 OHIO BUILDING CODE (IBC 2021)

2014 OHIO PLUMBING CODE (IPC 2021)

2014 OHIO MECHANICAL CODE (IMC 2021)

2023 NATIONAL ELECTRICAL CODE - (NFPA 70, 2023)

2017 OHIO FIRE CODE (IFC 2015)

2017 OHIO BUILDING CODE (ICC/ANSI A117.1 AND ADAAG)

2021 INTERNATIONAL ENERGY CONSERVATION CODE AND ASHRAE 90.1-07-2009

ACI AMERICAN CONCRETE INSTITUTE, ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"

TMS THE MASONRY SOCIETY, TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"

CODE SUMMARY:

OCCUPANCY CLASS .: U CONSTRUCTION: YB AREA: <u>222</u> FT<sup>2</sup> AREA ALLOWABLE: <u>5500</u>FT<sup>2</sup> HEIGHT: 1 STORY HEIGHT ALLOWABLE: 1 STORY OCCUPANT LOAD: 4

ALLOWABLE SOIL BEARING

**DESIGN LOADS** 

30 PSF ROOF: SNOW LOAD ROOF: DEAD LOAD 15 PSF MALL DEAD LOAD 81 PSF IBC SEISMIC DESIGN CATEGORY 115 MPH DESIGN WIND SPEED (ULTIMATE) EXPOSURE D

**WIND DESIGN: SEISMIC DESIGN DATA:** 

RISK CATEGORY: II RISK CATEGORY:

1500 PSF

IMPORTANCE FACTOR: 1.0 WIND SPEED = 115 MPH

> SS: 0.152 **EXPOSURE**:

S1: 0.048 INTERNAL PRESSURE COEFE = ± 0.18

SMS: 0.243

SM1: 0.114

SDS: 0.162

SD1: 0.076

R = 5

SEISMIC DESIGN CATEGORY: B

SITE CLASS: D

BASE SHEAR: V = 0.032 W

BEARING WALL SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALL

ANALYSIS METHOD: EQUIVALENT STATIC FORCE METHOD

**SPECIAL INSPECTIONS** 

CONCRETE SPECIAL INSPECTION NOT REQUIRED PER IBC 1705.3

**EXCEPTION 2.3 [FOOTINGS]** EXCEPTION 3 [SLAB]

SPECIAL INSPECTIONS (TMS 402-16)

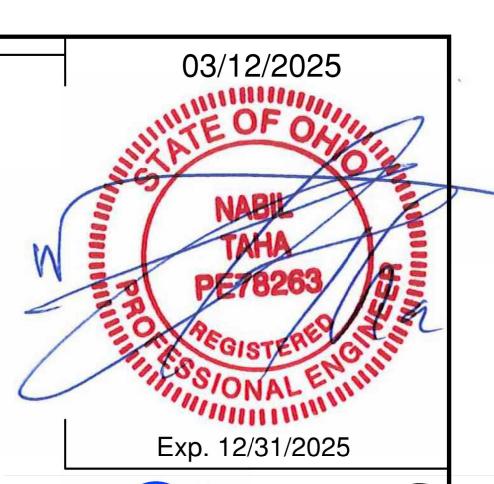
MINIMUM VERIFICATION	REQUIRED FO	REQUIRED FOR QUALITY ASSURANCE (a)		REFERENCE FOR CRITERIA
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 602
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS		R		ART. 1.5
PRIOR TO CONSTRUCTION, VERIFICATION OF f'm AND f'AAC, EXCEPT WHERE SPECIFICALLY EXEMPT BY THE CODE.		R		ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.	7	R		ART. 1.5 & 1.6.3
DURING CONSTRUCTION, VERIFICATION OF f'm AND f'AAC FOR EVERY 5,000 sq. ft. (465 sq.m).		NR		ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF PORPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.		NR		ART. 1.4 B

MINIMUM SPECIAL INSPECTION					
INSPECTION TASK	REQUIRED F	OR QUALITY AS	SURANCE (a)	REFERENCE	FOR CRITERIA
					1
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
FOLLOWING ARE IN COMPLIANCE:		1		1	<u> </u>
A. PROPORTION OF SITE-PREPARED MORTAR		Р			ART. 2.1 , 2.6 A, & 2.6
B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		Р			ART. 2.4 B & 2.4 H
C. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		Р			ART. 3.4 & 3.6 A
D. PRESTRESSING TECHNIQUE		Р			ART. 3.6 B
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY		C(b)/P(c)			ART. 2.1 C.1
F. SAMPLE PANEL CONSTRUCTION		Р			ART. 2.1 C.1
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. GROUT SPACE		Р			ART. 3.2 D & 3.2 F
B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES		Р		SEC. 10.8 & 10.9	ART. 2.4 & 3.6
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		Р		SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 2.4 & 3.6
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		Р			ART. 2.6 B & 2.4 G.1.
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		Р			ART. 1.5
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		Р			ART. 3.3 B
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS		Р			ART. 3.3 F
D. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.		Р		SEC. 1.2.1(e), 6.2.1 & 6.3.1	
E. WELDING OF REINFORCEMENT		С		SEC. 6.1.6.1.2	
F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F(4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F(32.2°C))		Р			ART. 1.8 C & 1.8 D
G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE		С			ART. 3.6 B
H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE		С			ART. 3.5 & 3.6 C
I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS		C(b)/P(c)			ART. 3.3 B.9 & 3.3 F.1
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		P			ART. 1.4 B.2.a.3 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3,

(a) FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.

(b) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

(c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.





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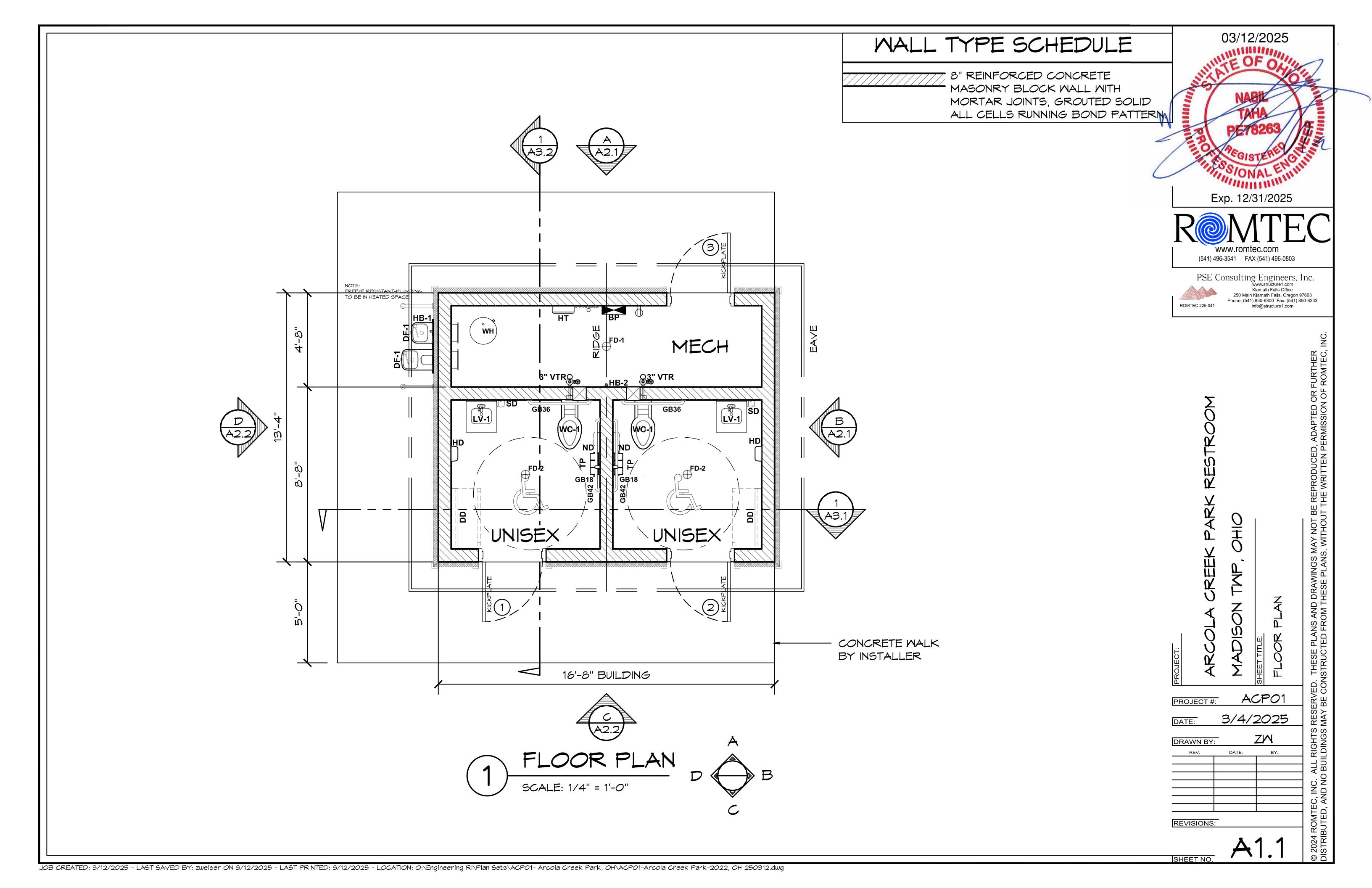
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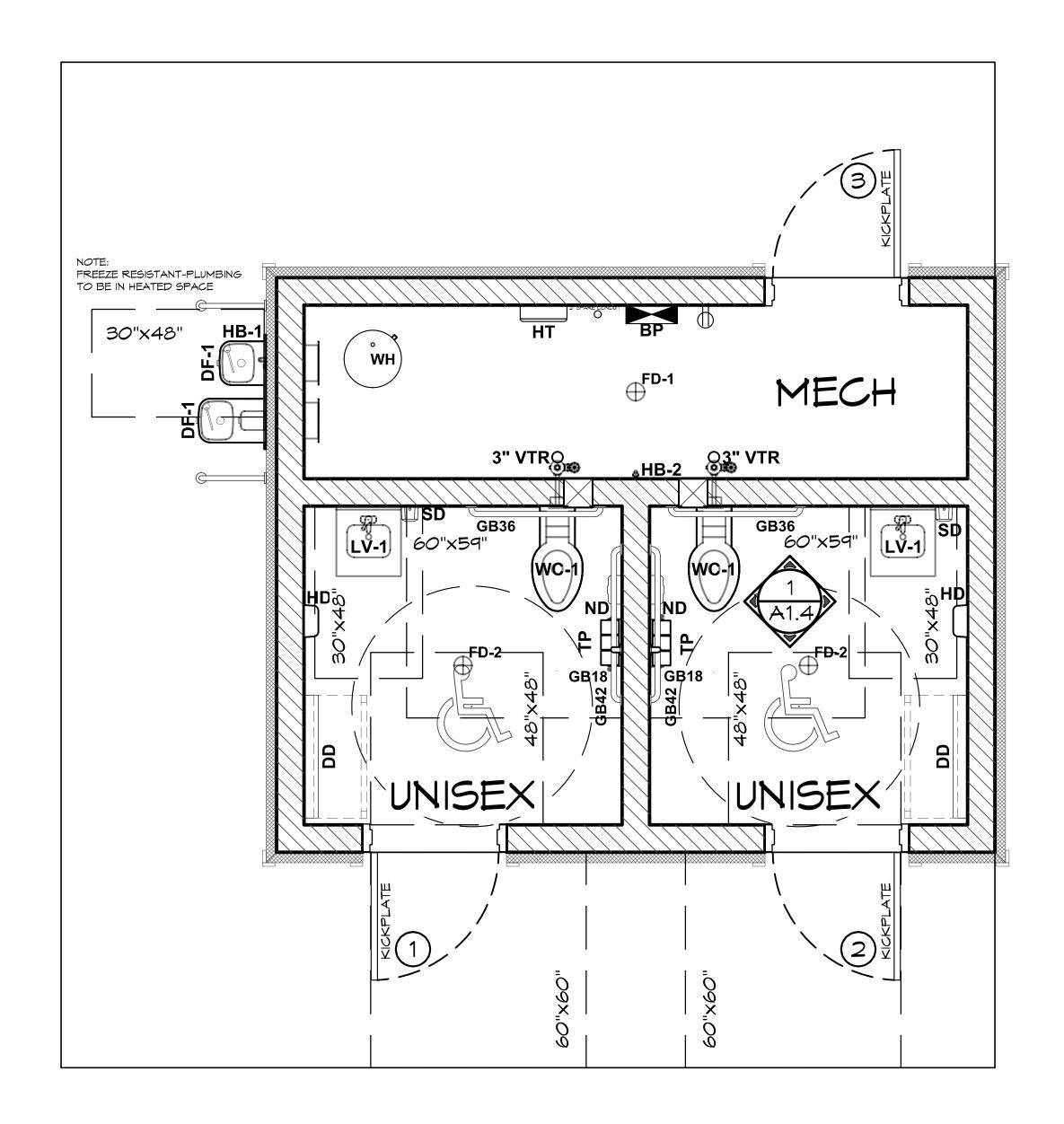
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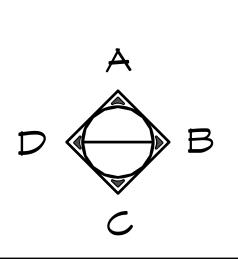
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ADA RESTROOM FIXTURE CLEAR FLOOR AREA SCALE: 1/4" = 1'-0"



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# DRINKING FOUNTAIN NOTES:

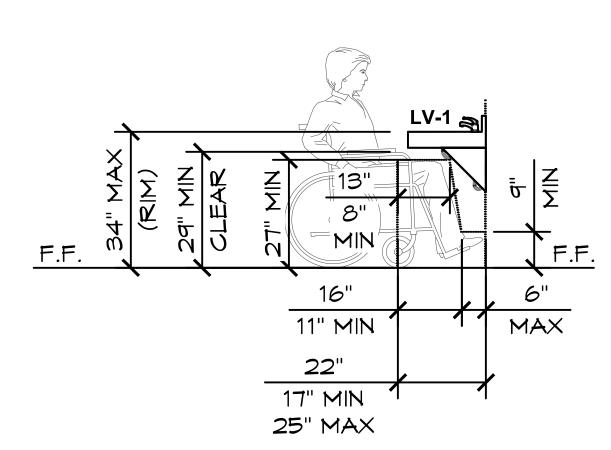
-THE ACCESSIBLE DRINKING FOUNTAIN SHALL BE A MINIMUM 18 INCHES (AND MAXIMUM 19 INCHES FOR MALL AND POST-MOUNTED CANTILEVERED DRINKING FOUNTAINS) IN DEPTH.

-THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS. -THE SPOUT SHALL PROVIDE A I FLOM OF MATER 4 INCHES HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE MATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE

HAMS MATER FOUNTAIN M/ BOTTLE FILLER BF-1 DF-1 **DF-1** F.F.

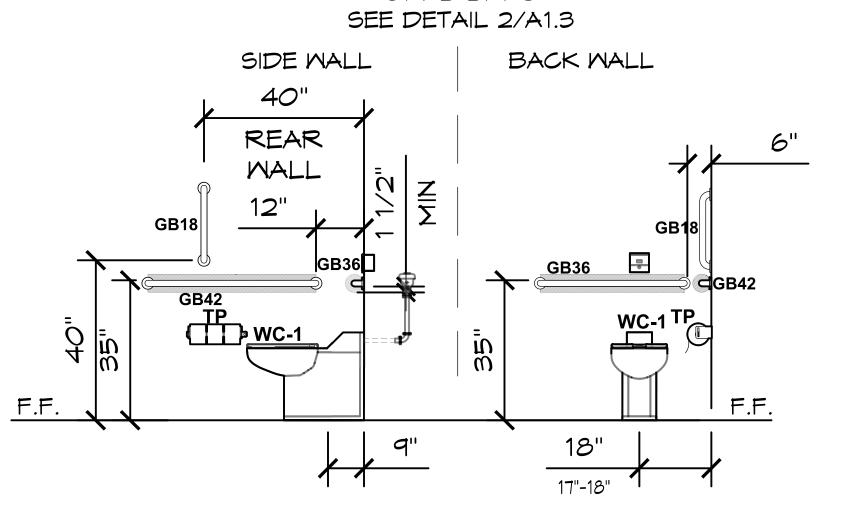
LOCATED LESS THAN 3 INCHES OF THE FRONT FACE OF THE UNIT. THE ANGLE OF THE MATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE MATER STREAM SHALL BE 15 DEGREES MAXIMUM.

A. THE ACCESSIBLE SINK SHALL BE MOUNTED | WITH THE COUNTER OR RIM NO HIGHER THAN 34" ABOVE FINISH FLOOR, KNEE CLEARANCE THAT IS AT LEAST 27" HIGH, 30" SIDE AND 19" UNDERNEATH THE SINK SHALL BE PROVIDED. HOT MATER AND DRAIN SHALL BE INSULATED OR OTHERWISE CONFIGURED SO AS TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE SINK. SECTION 11B- 606. B. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING. PINCHING OR TWISTING OF THE MRIST. LEVER OPERATED, PUSH-TYPE AND

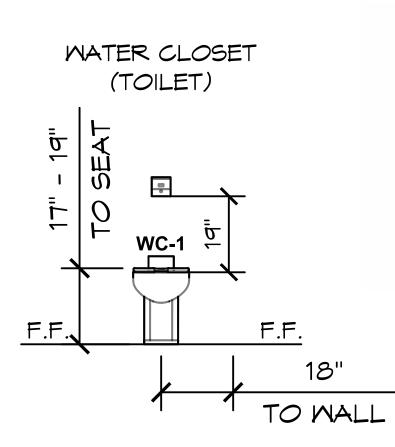


LAVATORY

ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS. SECTION 11B-606.4.



GRAB BARS



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INSTALLED GRAB BARS MUST MEET 250# MINIMUM LOAD & GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS PER CODE.

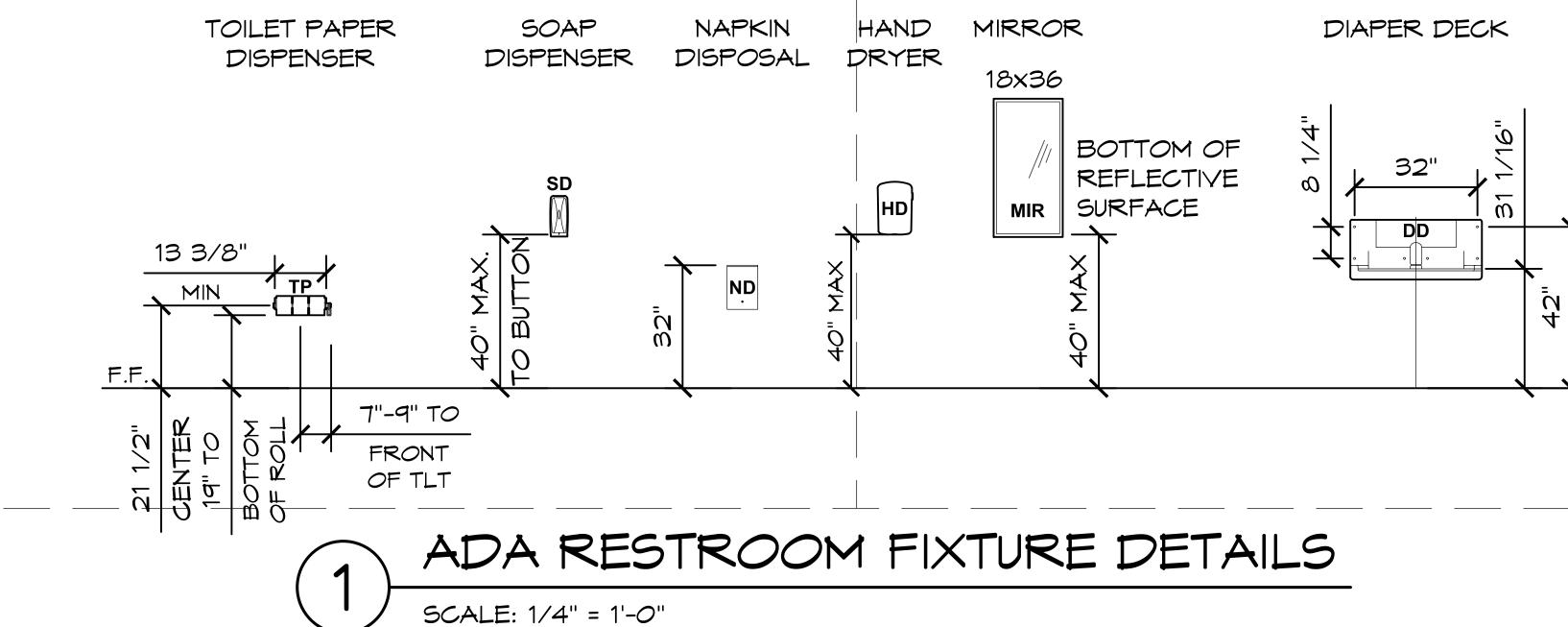
1 1/4" TO 1 1/2" NOMINAL -DIAMETER MALL FASTEN TO -CMU MALL M/ (2) 5/16"Φ X 1 3/4" CONCRETE ANCHORS

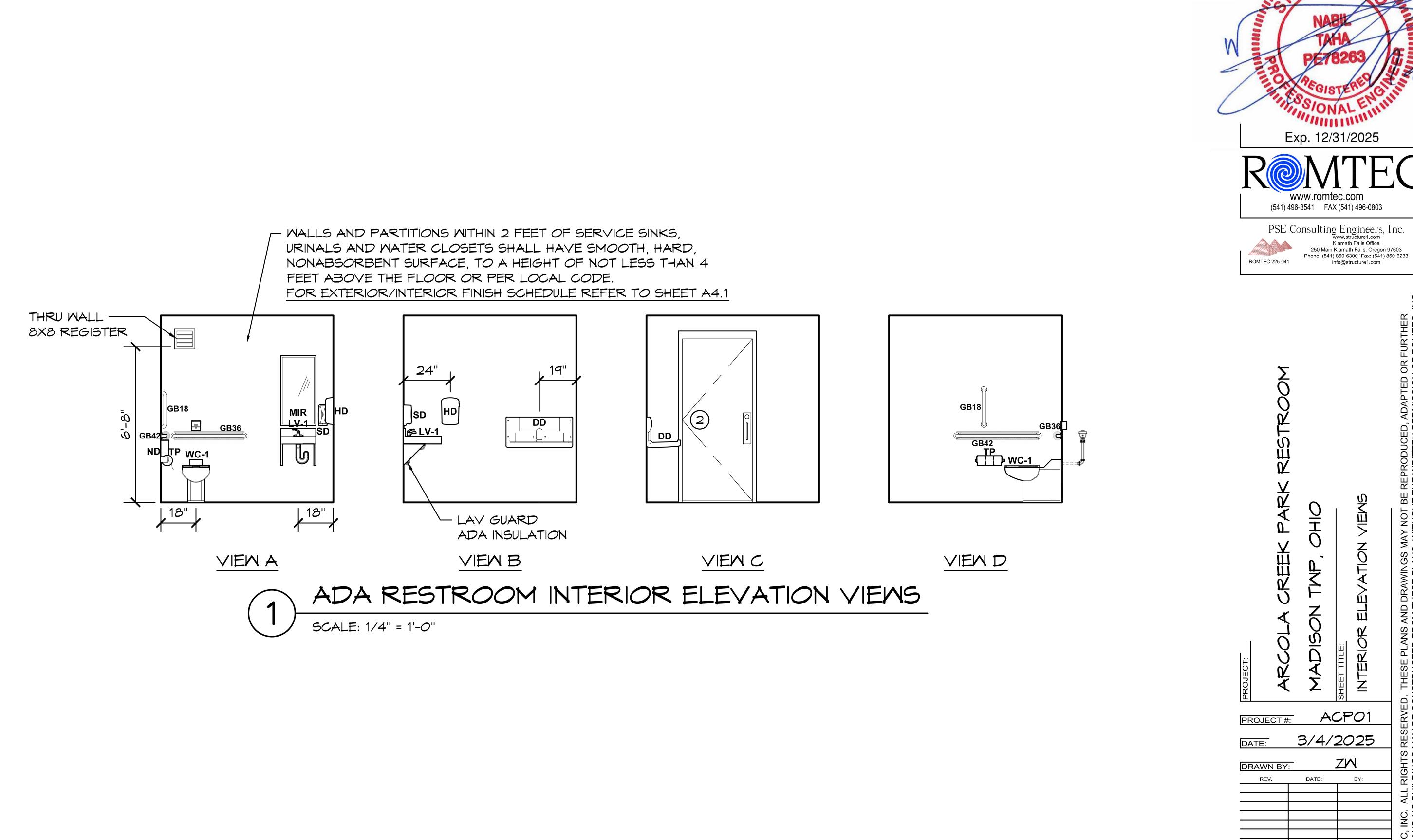


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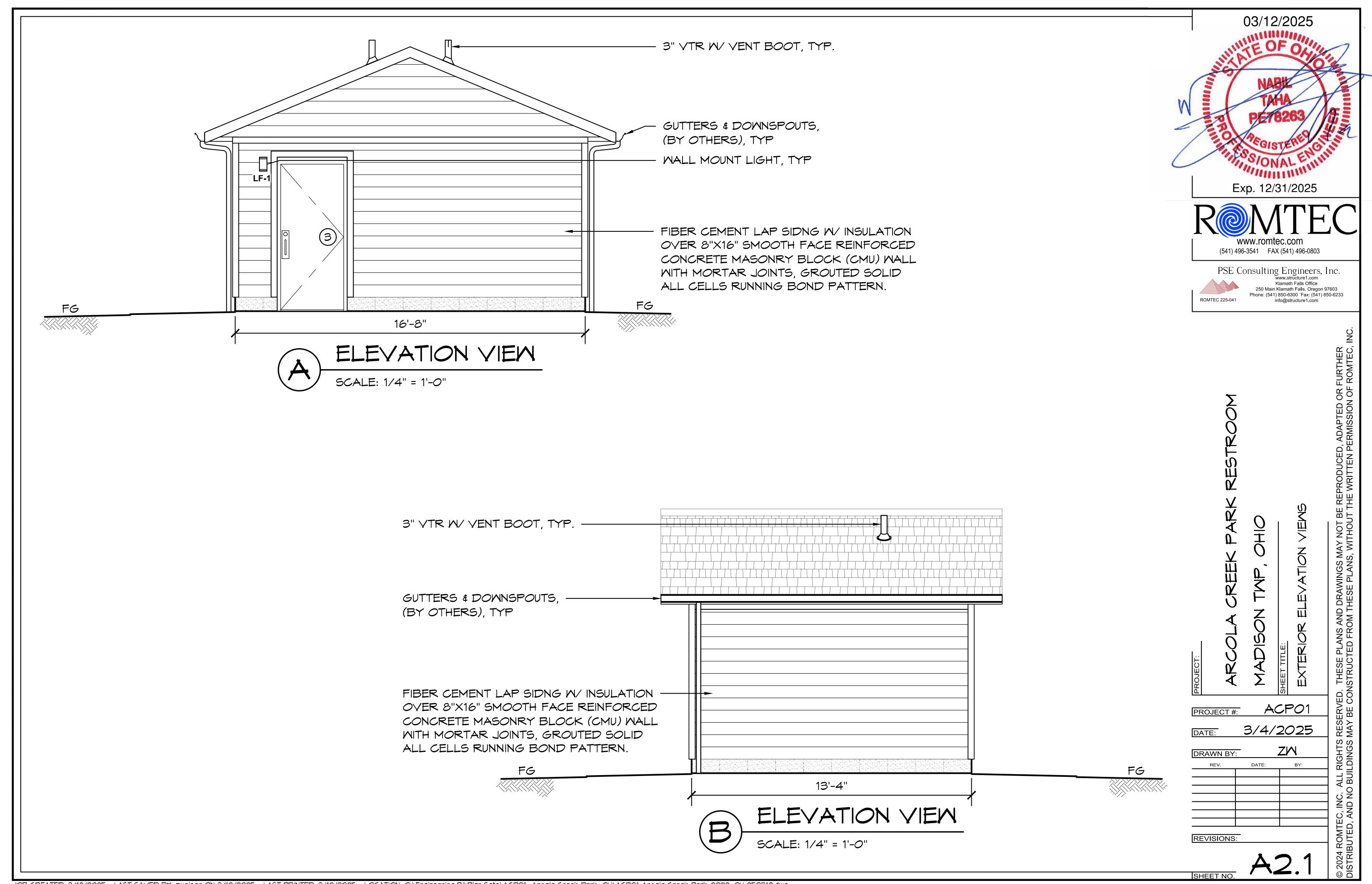
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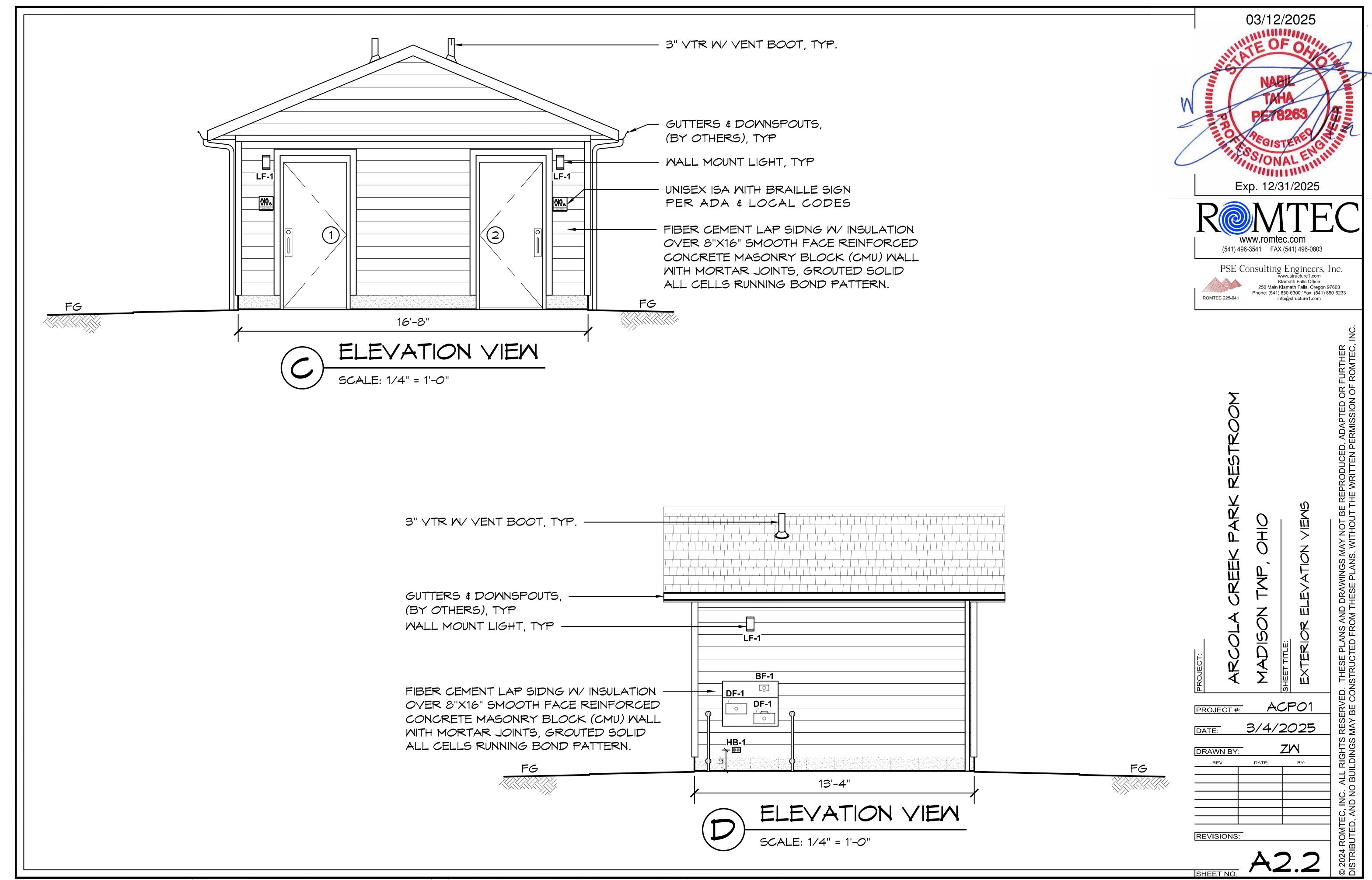
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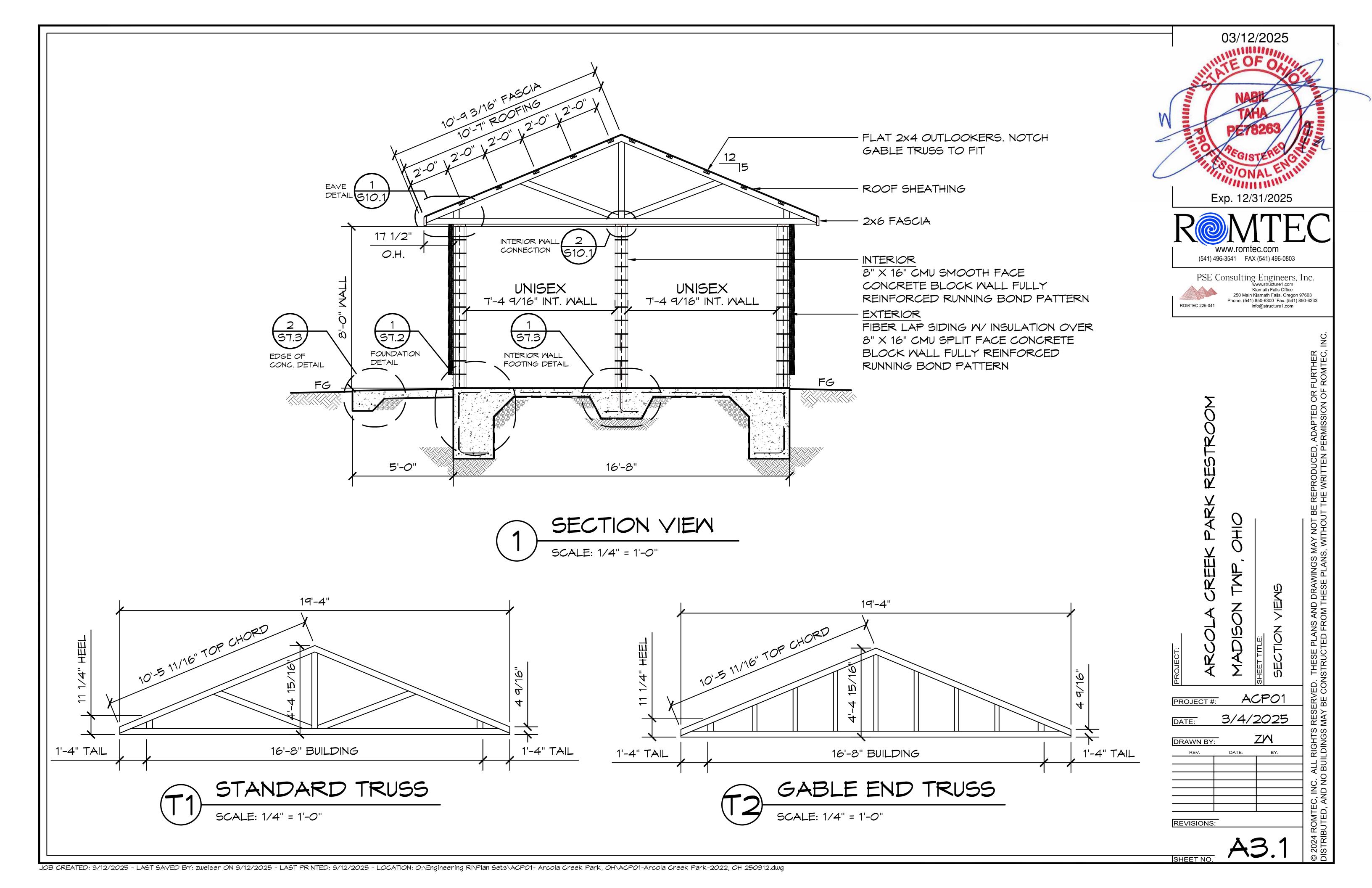


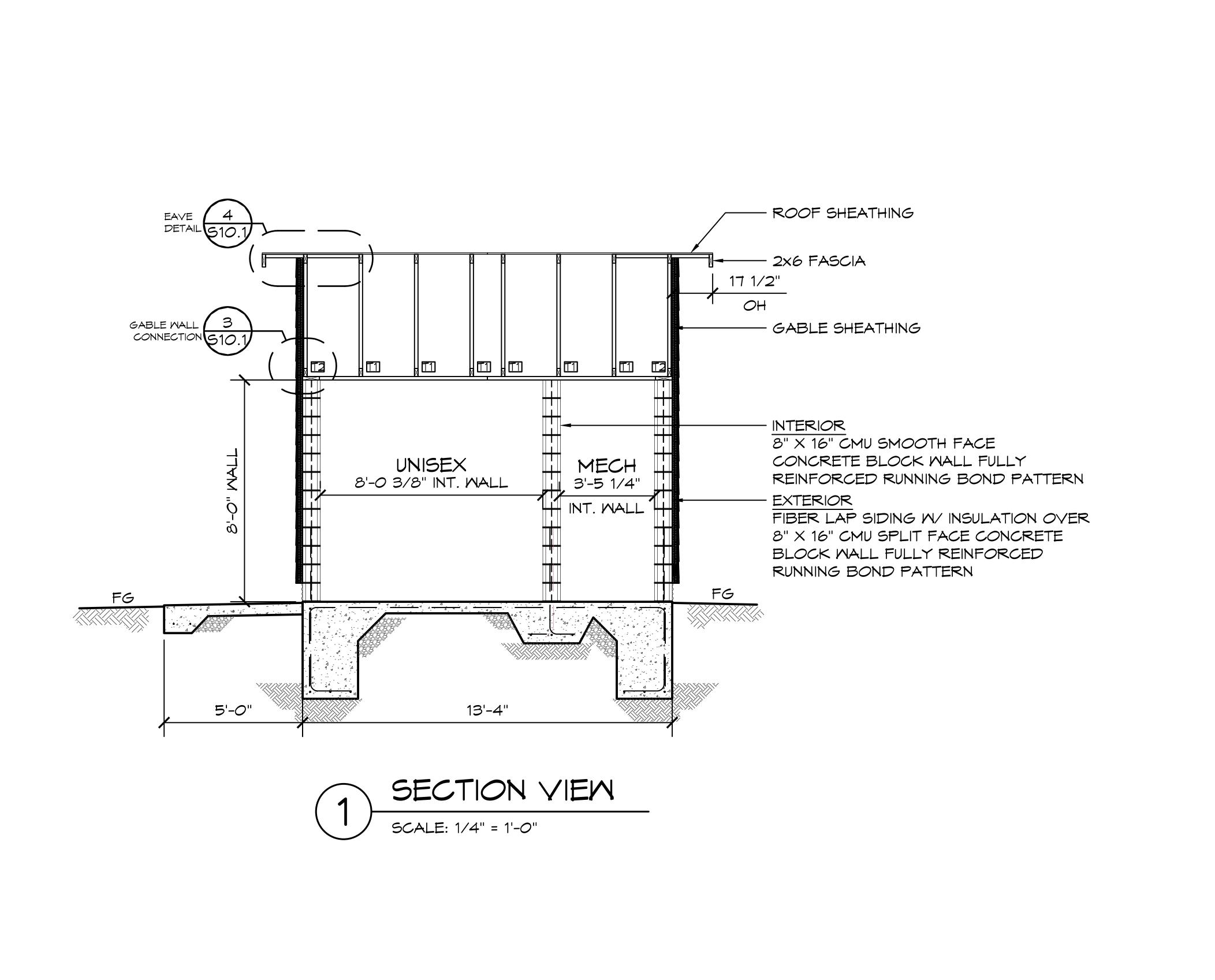


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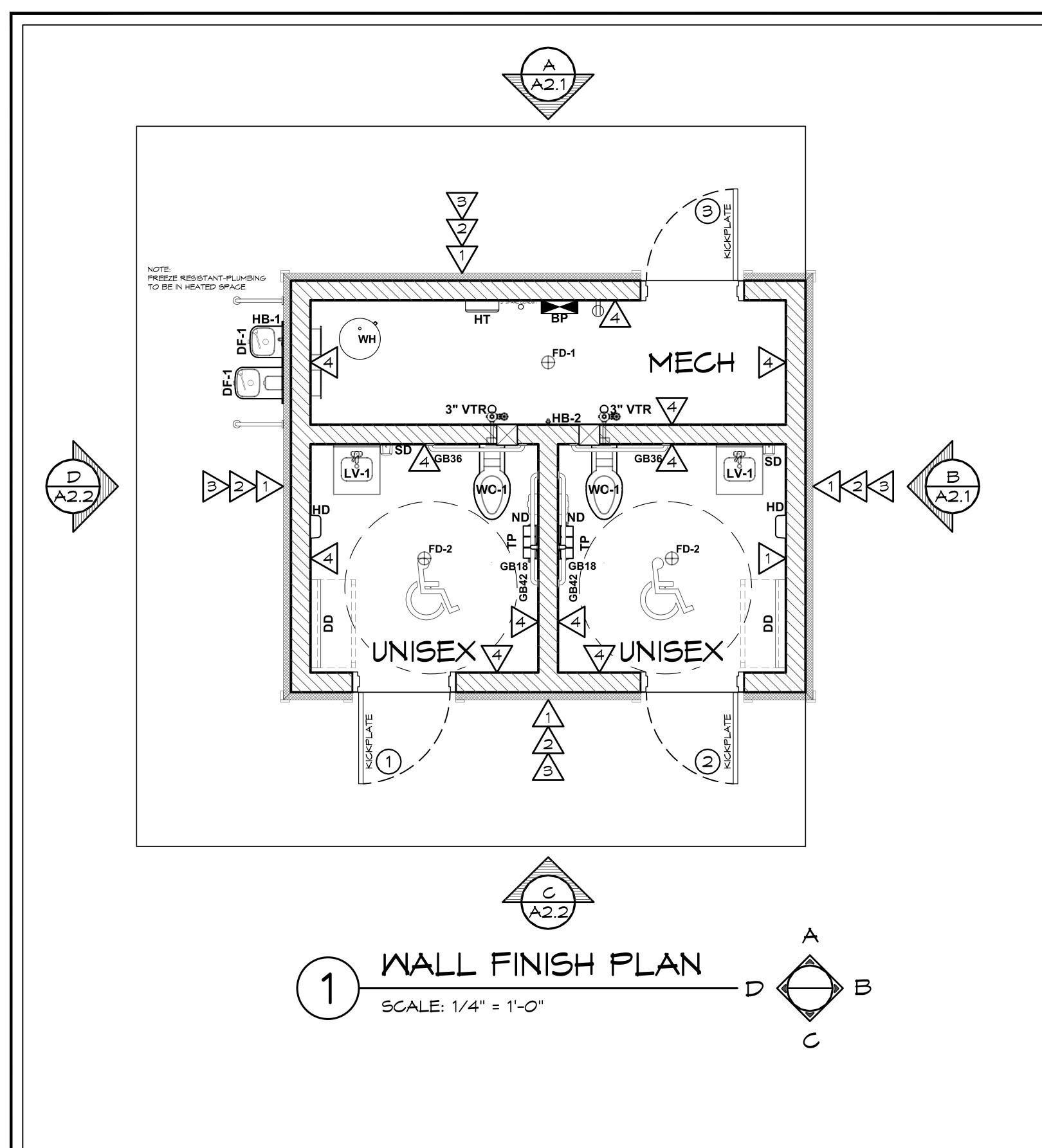
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NO.	LOCATION	FINISH	DETAIL
1	EXTERIOR WALL	8" SPLIT FACE FIRST COURSE, ALL OTHER COURSES SMOOTH FACE REINFORCED CONCRETE MASONRY BLOCK WALL W/ MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.	<b>N</b>
2	EXTERIOR SIDE OF CMU	APPLY BLOCK SEALER TO CMU SURFACES. INSTALLER TO APPLY 2 COATS OF RAIN GUARD BLOK LOK OR EQUAL PER MANUFACTURE'S INSTALL INSTRUCTIONS (INSTALLER SUPPLIED)	
3	EXTERIOR SIDING	FIBER CEMENT LAP SIDING OVER 2" RIGID INSULATION	SEE PAGE A4.2
4	INTERIOR MALL	PRIMED & (2) COATS OF EPOXY PAINT CMU WALLS FLOOR TO CEILING (INSTALLER SUPPLIED)	
	CEILING	5/8" MOISTURE RESISTANT DRYWALL TO BE TEXTURED, PRIMED & PAINTED (INSTALLER SUPPLIED)	
	EXPOSED MOOD	ALL T&G, FASCIA, SUB FASCIA, AND GLULAM BEAMS AND COLUMNS TO BE SEALED WITH INSTALLER SUPPLIED CLEAR COAT FINISH APPLIED ONSITE BY INSTALLER	
	FLOOR	APPLY VAPOR CONTROL 1P PRIMER THEN EPOXY FLOOR WITH COROTECH SOLID V440, COROTECH V155 AND AGGREGATE V630 OR EQUAL.	
	COVE BASE IN RESTROOMS ONLY	COVE BASE INTEGRAL WITH FLOORING	

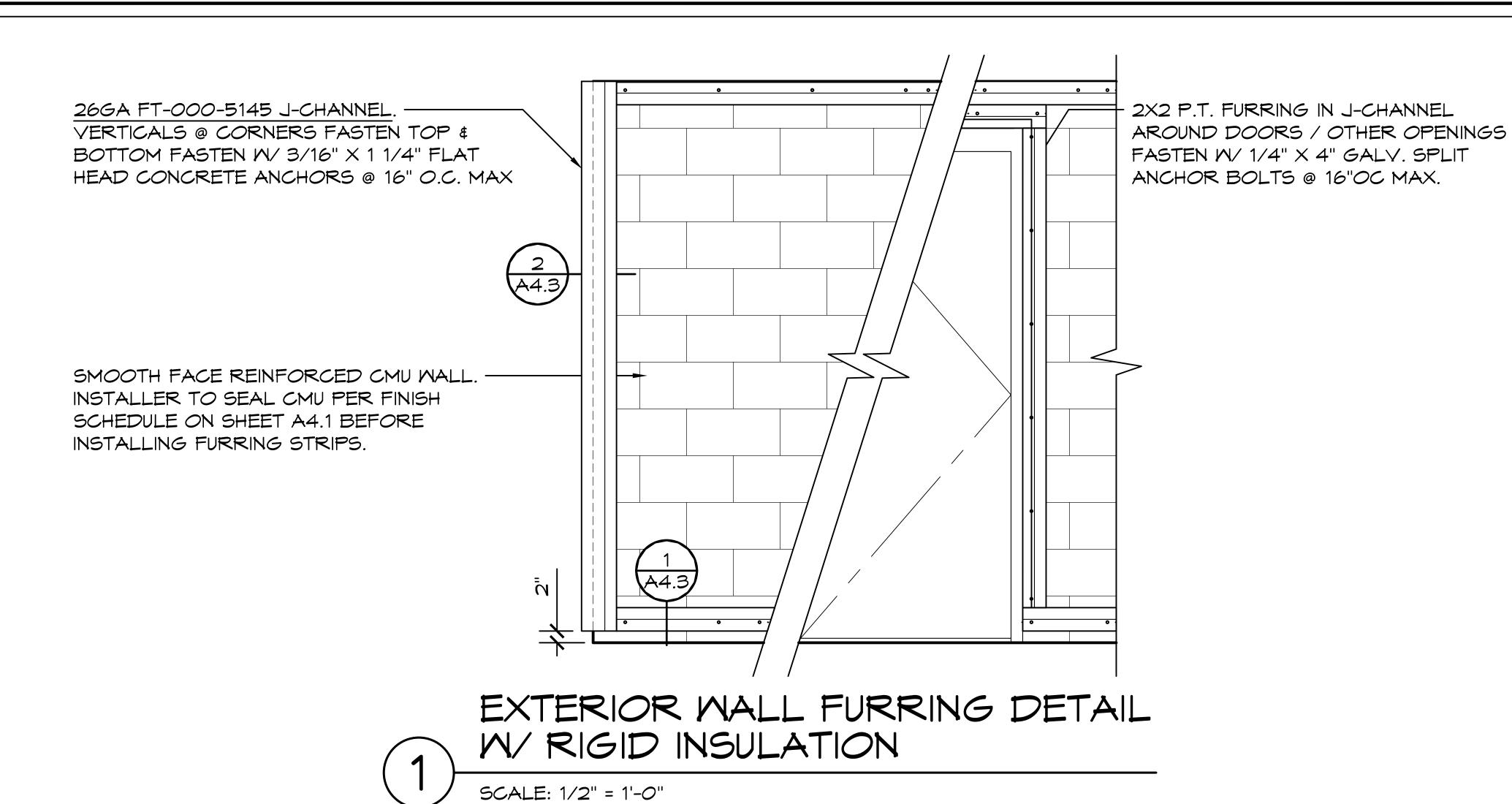
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EXTERIOR FINISH FIBER CEMENT LAP SIDING

SIDING NOTES (SEE A4.3)

M/2" INSULATION

J-CHANNEL-26GA ROMTEC FT-000-5145 - AT CORNERS, J-CHANNEL-26GA ROMTEC FT-000-5145 - TOP & BOTTOM OF SMOOTH FACE CMU WALL AND AROUND OPENINGS. FASTEN | M/ 3/16" X 1 1/4" FLAT HEAD CONCRETE ANCHORS @ 16" O.C. MAX.

2" RIGID INSULATION (R-13.1), SHALL BE FASTENED TO CMU M/3/16" X 4" FLAT HEAD CONCRETE ANCHORS & 2 PLASTI-GRIP WASHERS IN THE PATTERN OF TWO ROWS OF FOUR EVENLY SPACED, USE VENTURE TAPE & SCREWS W/ MASHERS TO FASTEN (2 SHEETS TOGETHER @ SEAMS).

- 1/2" P.T. PLYWOOD 1'-0" FROM F.F -1/2" PLYWOOD ABOVE - SHALL BE FASTENED THRU INSULATION TO CMU M/ 3/16" X 4" FLAT HEAD CONCRETE ANCHORS, 12" O.C. PERIMETER & 16" O.C. IN FIELD
- #15 BUILDING PAPER SECURED TO 7/16" OSB SHEATHING PER MANUFACTURE'S INSTALL INSTRUCTIONS.
- 8 1/4" FIBER CEMENT LAP PLANKS (7" REVEAL) ATTACH WITH 13/4" ROOFING NAILS @ 16" O.C. INTO FURRING
- 5/4×4 FIBER CEMENT TRIM ATTACH WITH 2" GALV. FINISH NAILS @ 12" O.C., COUNTERSINK & FINISH

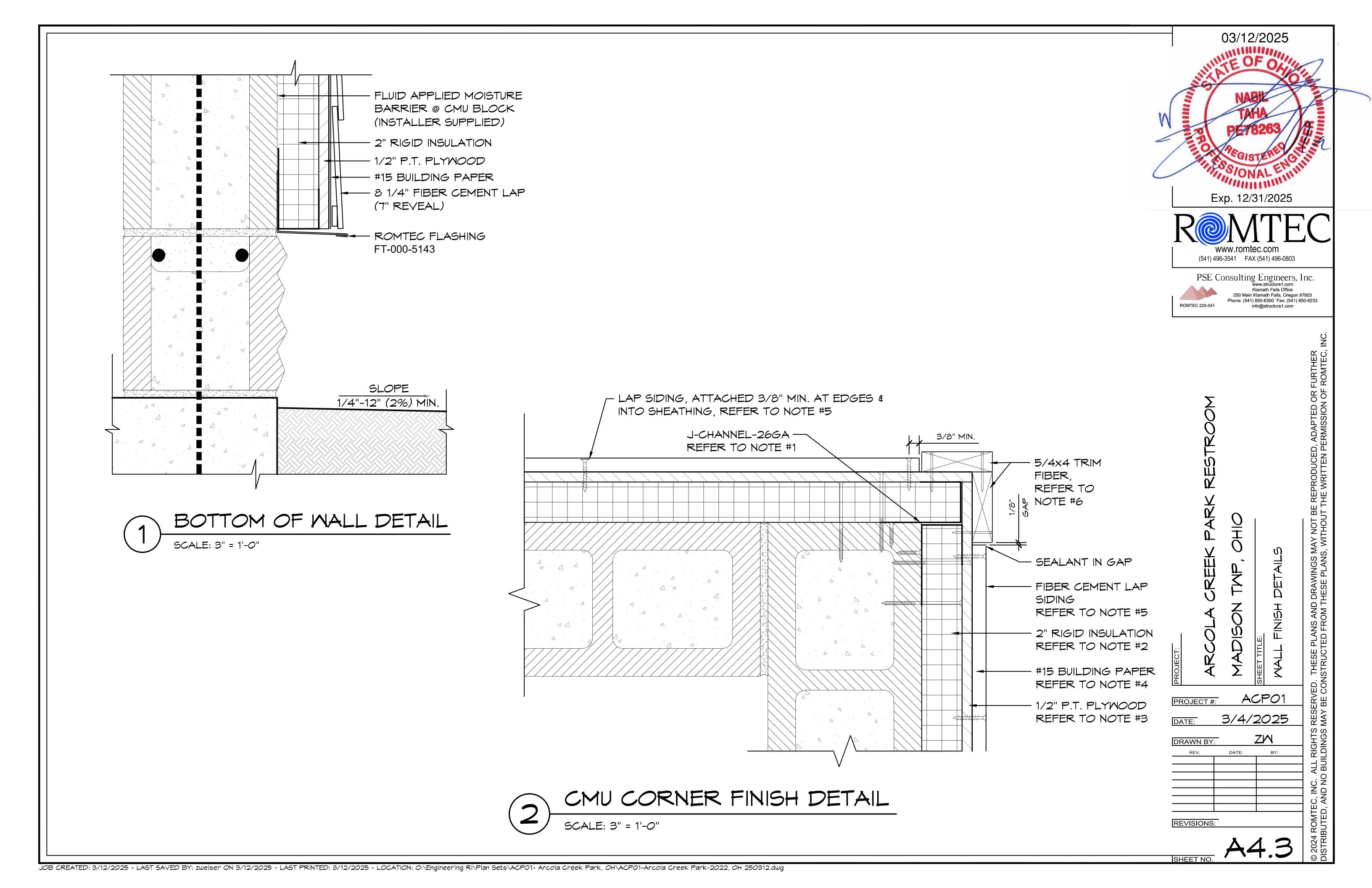
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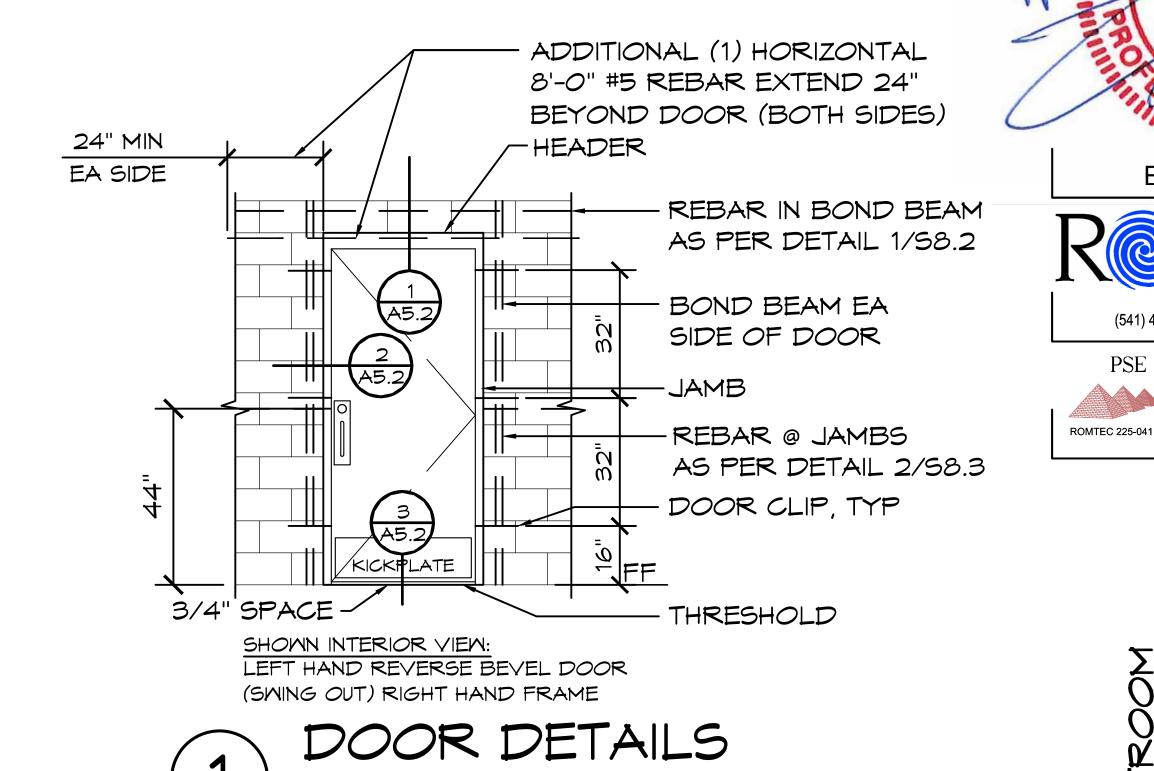


#### DOOR SCHEDULE HARD-MARE GROUP NO SIZE (MXHXT) DOOR FRAME SMING - DOOR / FRAME REMARKS LEFT HAND INTERIOR RIGHT HAND 36"x84"x1 3/4" SL14 F14 (REVERSE) DO~ 1 SEE THRESHOLD DETAIL 3/A5.2 SMING OUT RIGHT HAND 36"x84"x1 3/4" (REVERSE) SWING OUT LEFT HAND SL14 F14 DO~ 1 SEE THRESHOLD DETAIL 3/A5.2 LEFT HAND RIGHT HAND | DO~ 2 (REVERSE) SWING OUT 36"x84"x1 3/4" SL14 F14 SEE THRESHOLD DETAIL 3/A5.2

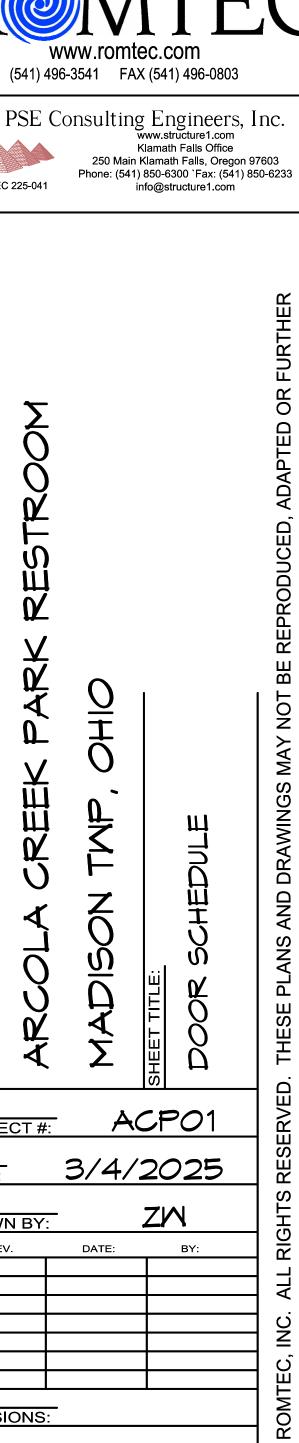
# DOOR HARDMARE SCHEDULE (QTYS PER DOOR)

GROUP DO-1	GROUP DO-2	
3	3	EACH HINGE 4.5" × 4.5" S.S. (NRP)
1	1	DOOR CLOSER, (USE THRU BOLT ANCHORING OPTION)
1	_	DEADBOLT LOCKSET, SCHLAGE C KEYWAY - SINGLE CYLINDER DEADBOLT LOCK, SATIN FINISH - (KEY - OUTSIDE / THUMB-TURN - INSIDE)
-	1	DEADBOLT LOCKSET, SCHLAGE C KEYWAY - <u>CLASSROOM LOCK</u> , SATIN FINISH - (KEY - OUTSIDE / THUMB-TURN - INSIDE RETRACTS ONLY)
2	2	PULL PLATE, 4" X 16"
2	2	PULL HANDLE, 8" CENTER
1	1	KICK PLATE, 10" X 34"
1	1	SMEEP
6	6	WIRE DOOR CLIPS

NOTE: ALL DOORS MAY BE OPENED FROM THE INSIDE W/O KEY, SPECIAL KNOWLEDGE, OR EFFORT. 5# MAX OPENING EFFORT DOOR IS EQUIPPED W/ SINGLE-EFFORT, NON-GRASP HARDWARE. DOOR COMPLIES WITH ADA REQUIREMENT FOR AN INSIDE LOCK.



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



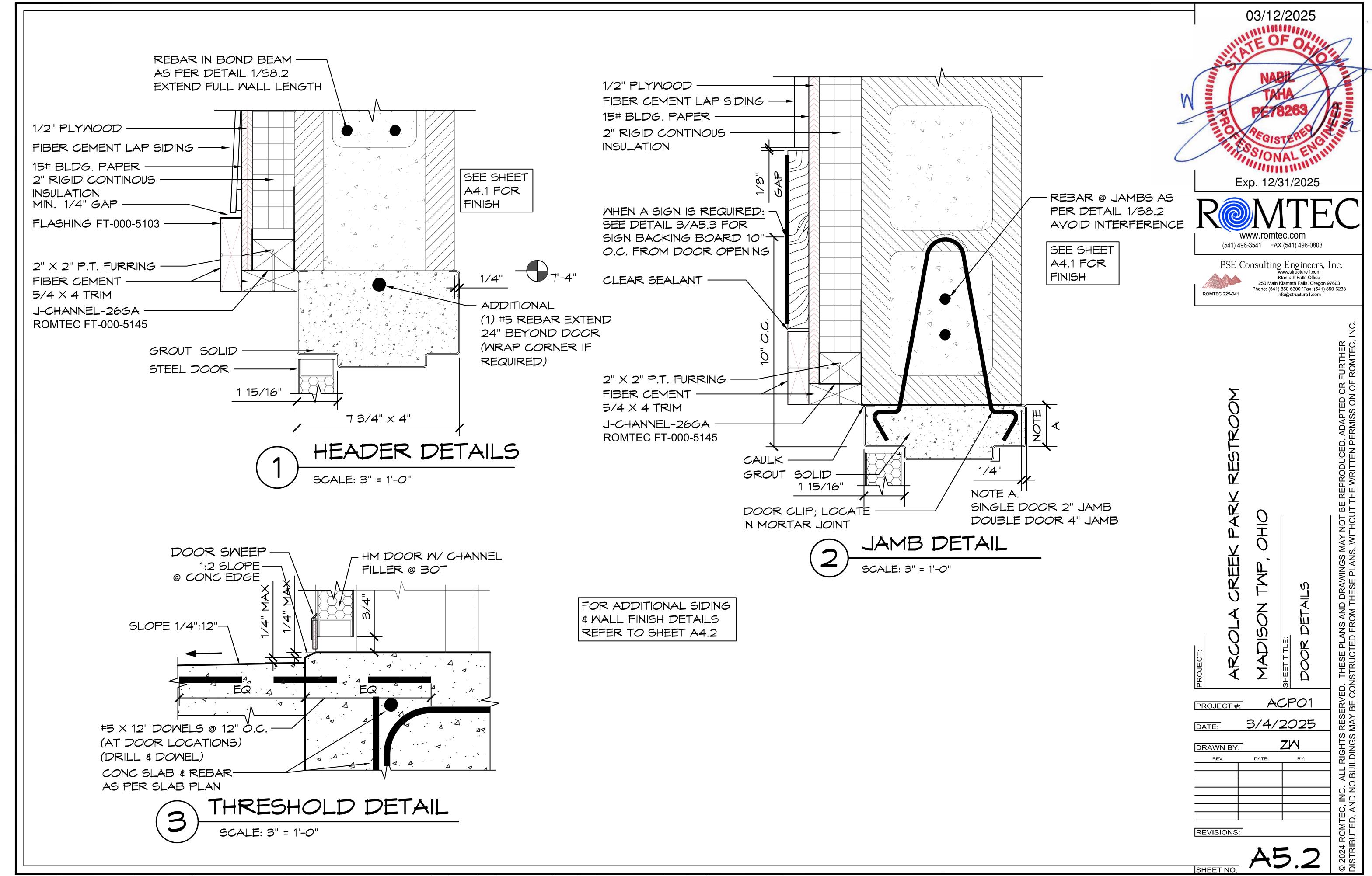
03/12/2025

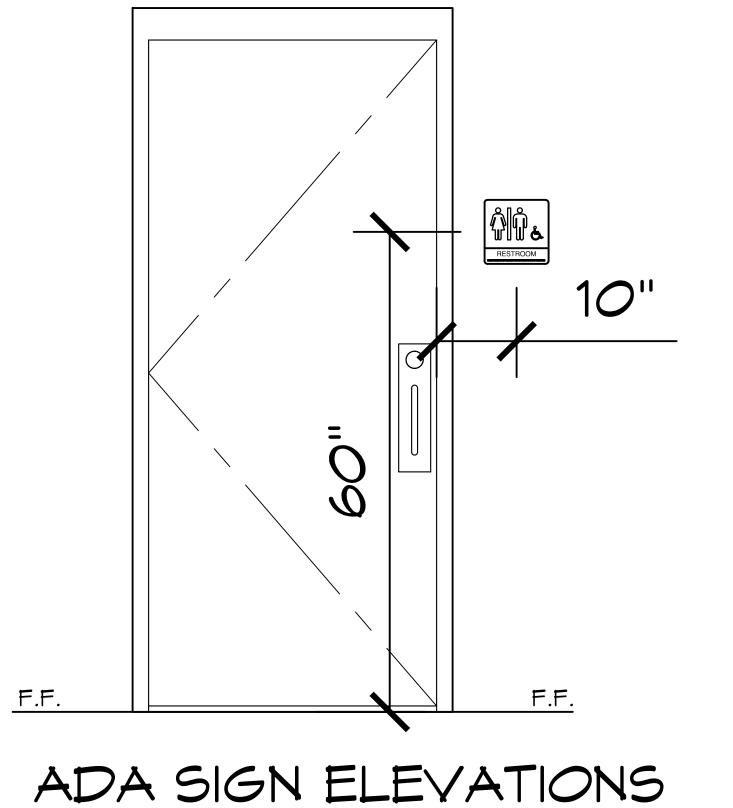
Exp. 12/31/2025

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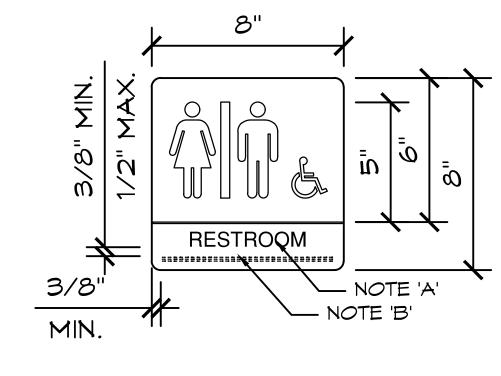
DRAWN BY:

**REVISIONS:** 





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



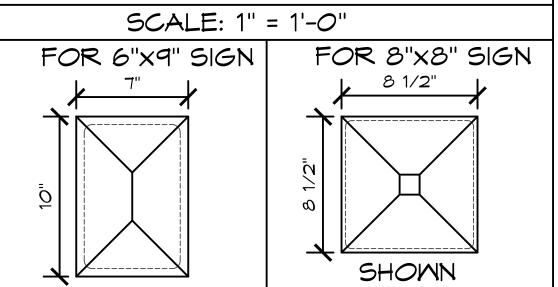
CHARACTERS ON SIGNS SHALL BE RAISED 1/32" INCH MINIMUM AND SHALL BE 'SANS SERIF' UPPERCASE CHARACTERS ACCOMPANIED BY GRADE II BRAILLE (WHERE REQUIRED). RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" INCH AND A MAXIMUM OF 2" INCHES HEIGHT.

B) CONTRACTED GRADE II BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED. DOTS SHALL BE 1/10"TH INCH ON CENTERS IN EACH CELL WITH A 2/10TH INCH SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE A RAISED A MINIMUM OF 1/40TH (0.025) INCH ABOVE THE BACKGROUND.

ADA SIGNS DETAIL SCALE: 1 1/2" = 1'-0"

MHEN A SIGN IS REQUIRED BACKING BOARD - FIELD CUT (5/4" × 4" FIBER CEMENT)

- FOR LAP OR SHAKE SIDING ONLY! FOR OTHER FINISHES SEE 2/A5.2
- ATTACH BACKING BOARD 10" O.C., FROM DOOR OPENING (LATCH SIDE)
- LOCATIONS & HEIGHT OF SIGN REQUIREMENTS PER PLANS



SIGN FASTENERS: WOOD/FIBER CEMENT/STEEL (4) #10 3/4" PHILLIPS ROUND HEAD SCREM.

03/12/2025

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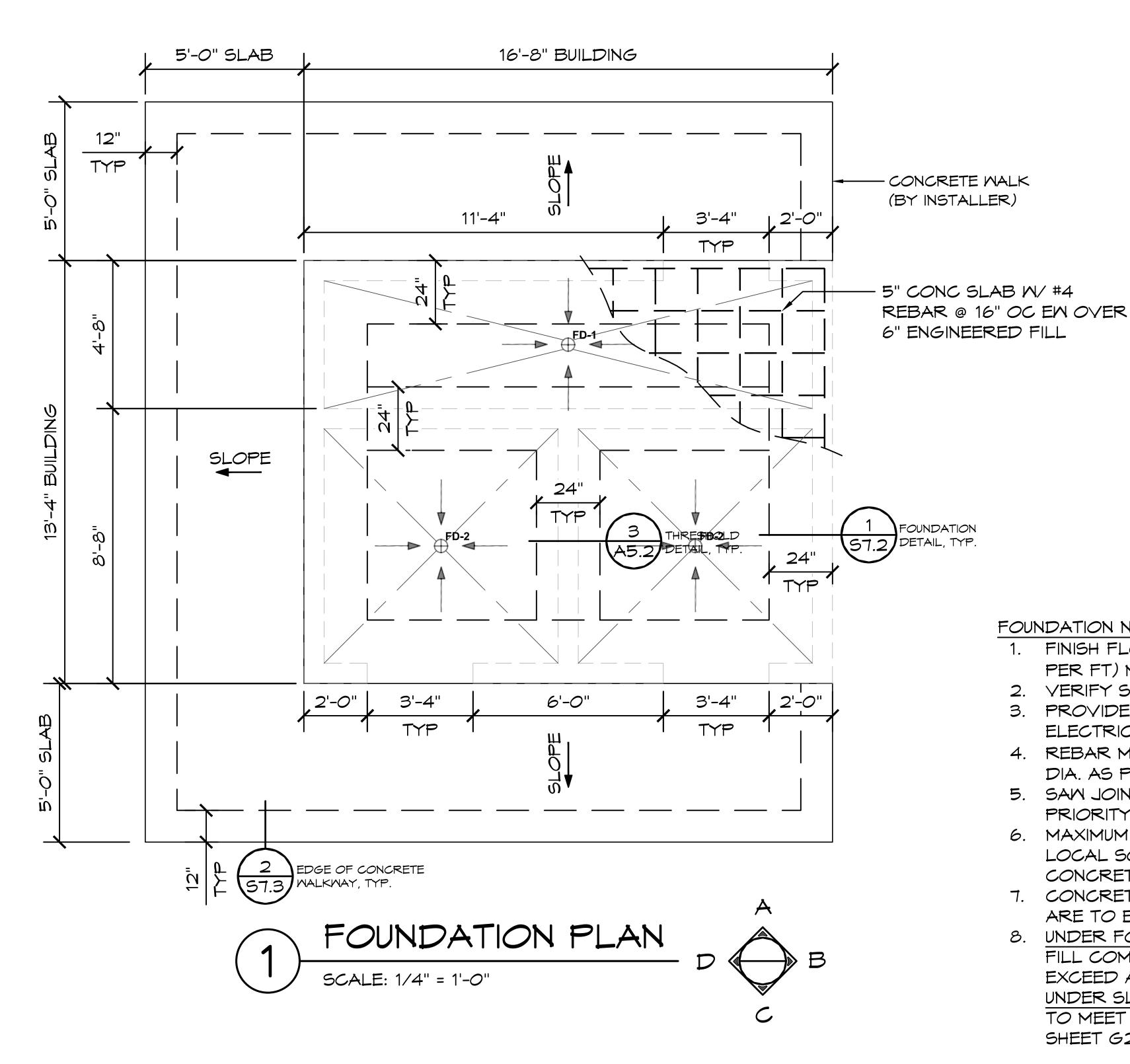
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PROJECT #:

3/4/2025

DRAWN BY: **REVISIONS:** 

ACPO1 ZM



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03/12/2025

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# RECYCLE

RECYCLE ALL USED SHIPPING MATERIALS AND LEFT OVER BUILDING MATERIALS

# FOUNDATION NOTES:

- 1. FINISH FLOOR SLOPE IS 2% (1/4" PER FT) MAX \$ 1% (1/8" PER FT) MIN
- 2. VERIFY SIDEMALKS M/ OWNER
- 3. PROVIDE BLOCK-OUTS FOR PLUMBING, MECHANICAL, \$ ELECTRICAL AS REQD. CO-ORDINATE M/ SUBS.
- 4. REBAR MIN. BEND SHALL BE NOT LESS THAN 6db INSIDE DIA. AS PER TMS TMS 402-16 SECTION 6.1.8.2.
- 5. SAW JOINTS BY CONTRACTOR. SLAB APPEARANCE IS A PRIORITY. LOCATE JOINTS AT 10' O.C. MAX. SEE 3/ST.3.
- 6. MAXIMUM SLOPE OF EXCAVATION MAY BE LIMITED BY LOCAL SOIL CONDITIONS. INCREASE DEPTH OF FORMED CONCRETE AS REQD.
- 7. CONCRETE SLAB BENEATH FLOOR MOUNTED FIXTURES ARE TO BE GROUTED LEVEL AND SMOOTH.
- 8. UNDER FOOTINGS: UNDISTURBED NATIVE SOIL OR 12" FILL COMPACTED TO 90% ASTM D 1557 TO MEET OR EXCEED ALLOWABLE BEAR PRESSURE ON SHEET G2. UNDER SLAB: 6" FILL COMPACTED TO 90% ASTM D 1557 TO MEET OR EXCEED ALLOWABLE BEAR PRESSURE ON SHEET G2.

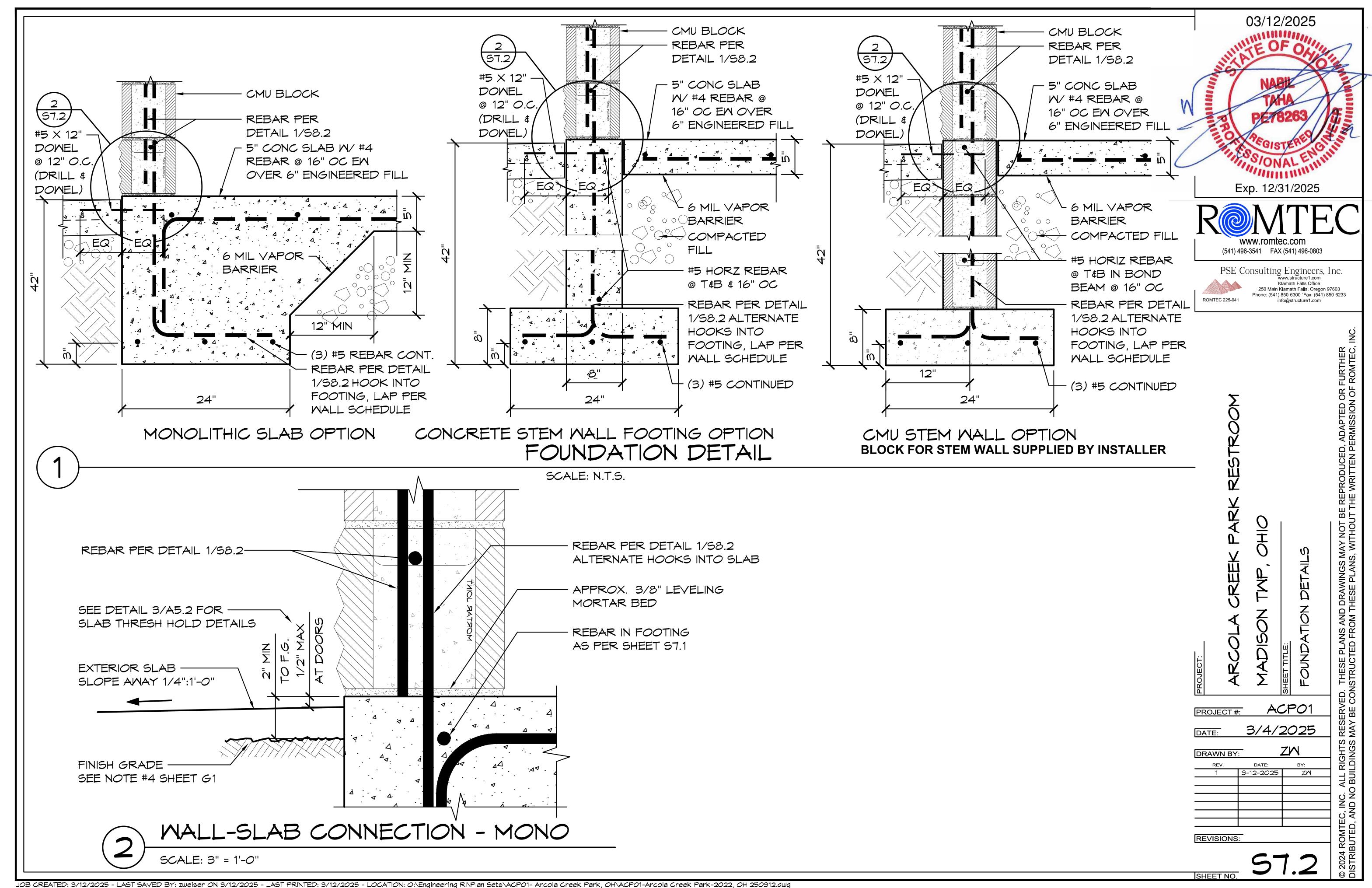
THE CONTRACTOR SHALL READ AND FOLLOW ALL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY PROFESSIONAL SERVICES INDUSTRIES, INC., REPORT # 0142-2901, DATED JANUARY 29, 2025

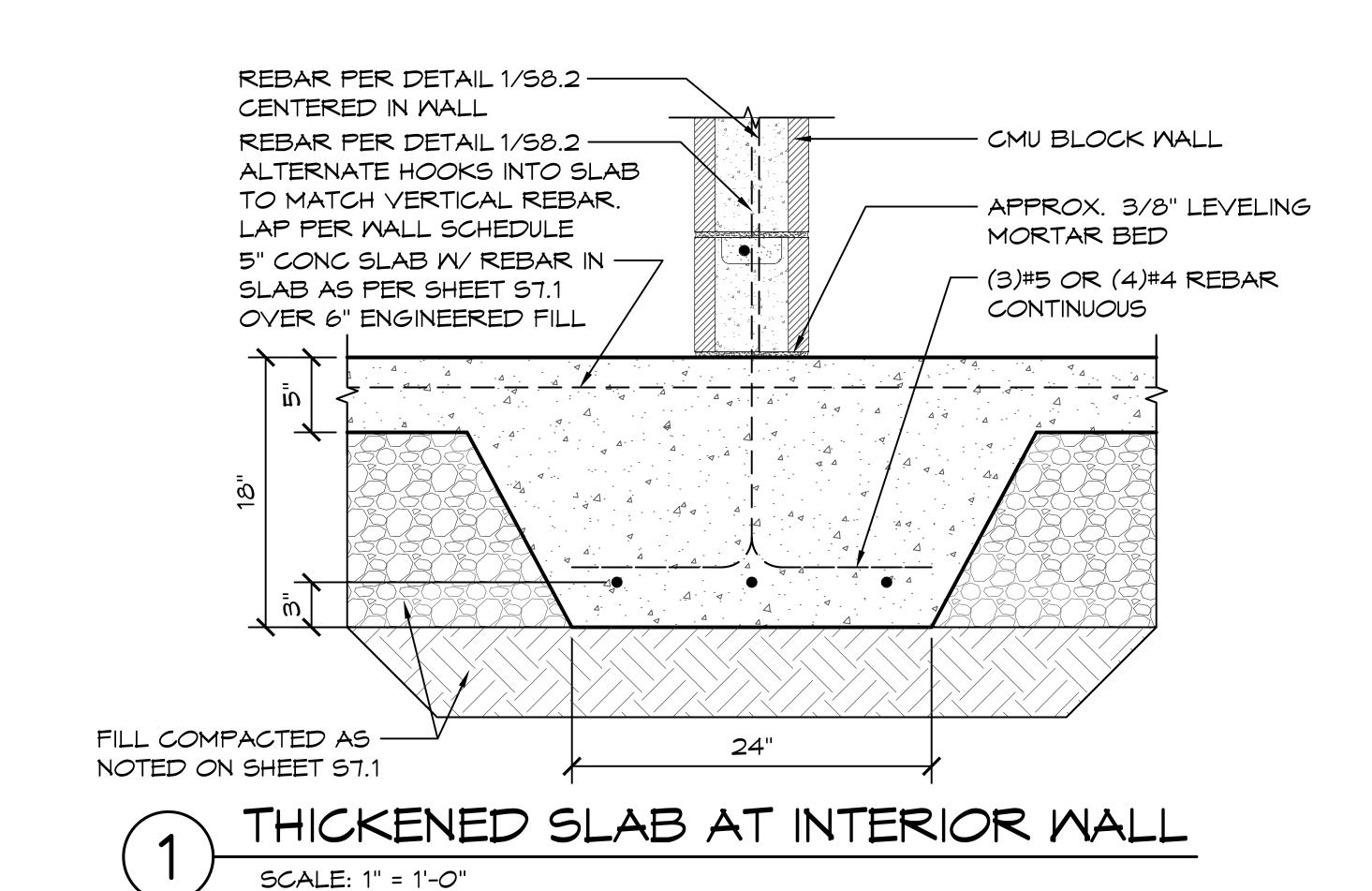
ACPO1 PROJECT #: 3/4/2025 DATE: ZM DRAWN BY:

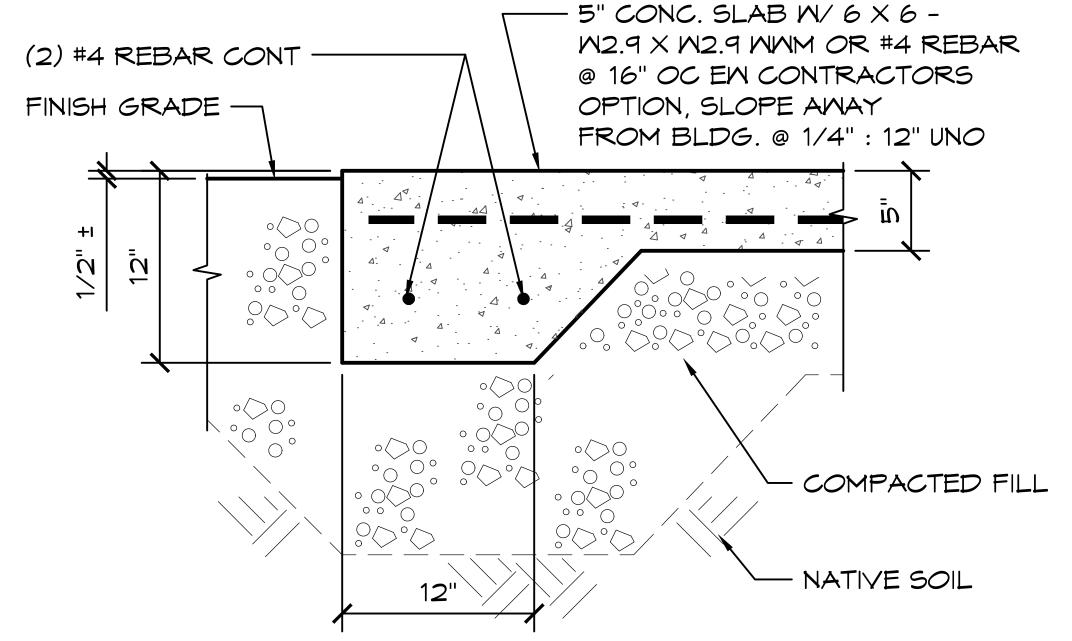
DRAWINGS MAY NOT HESE PLANS, WITHOL

1 3-12-2025 ZM **REVISIONS:** 

SHEET NO.







MAKE SAWCUT 1 1/2" DEEP WITHIN 24
HRS OF POUR "DO NOT CUT BARS".
FILL W/ EXPANDING JOINT COMPOUND.
MAXIMUM JOINT SPACING = 10'-0". AT
INSTALLER'S OPTION, CONTROL JOINT
MAY BE TOOLED DURING CONCRETE
FINISHING.

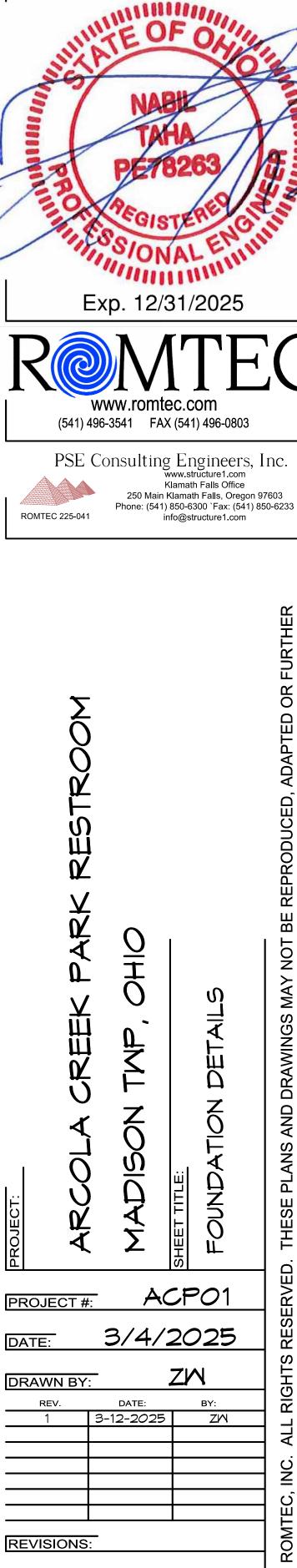
COMPACTED FILL

SANCUT JOINT

SCALE: 1" = 1'-0"

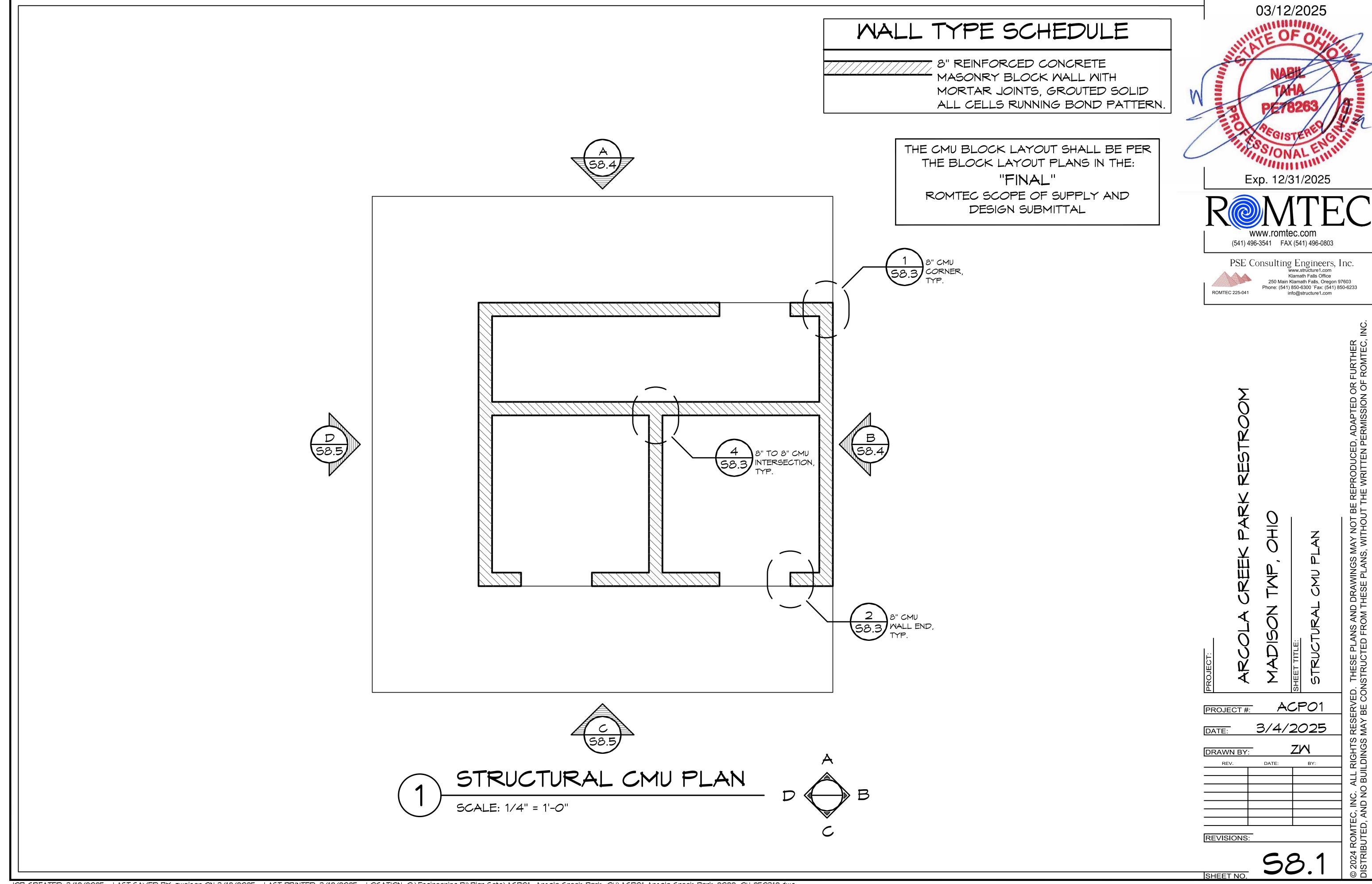
EDGE OF CONC. WALKWAY

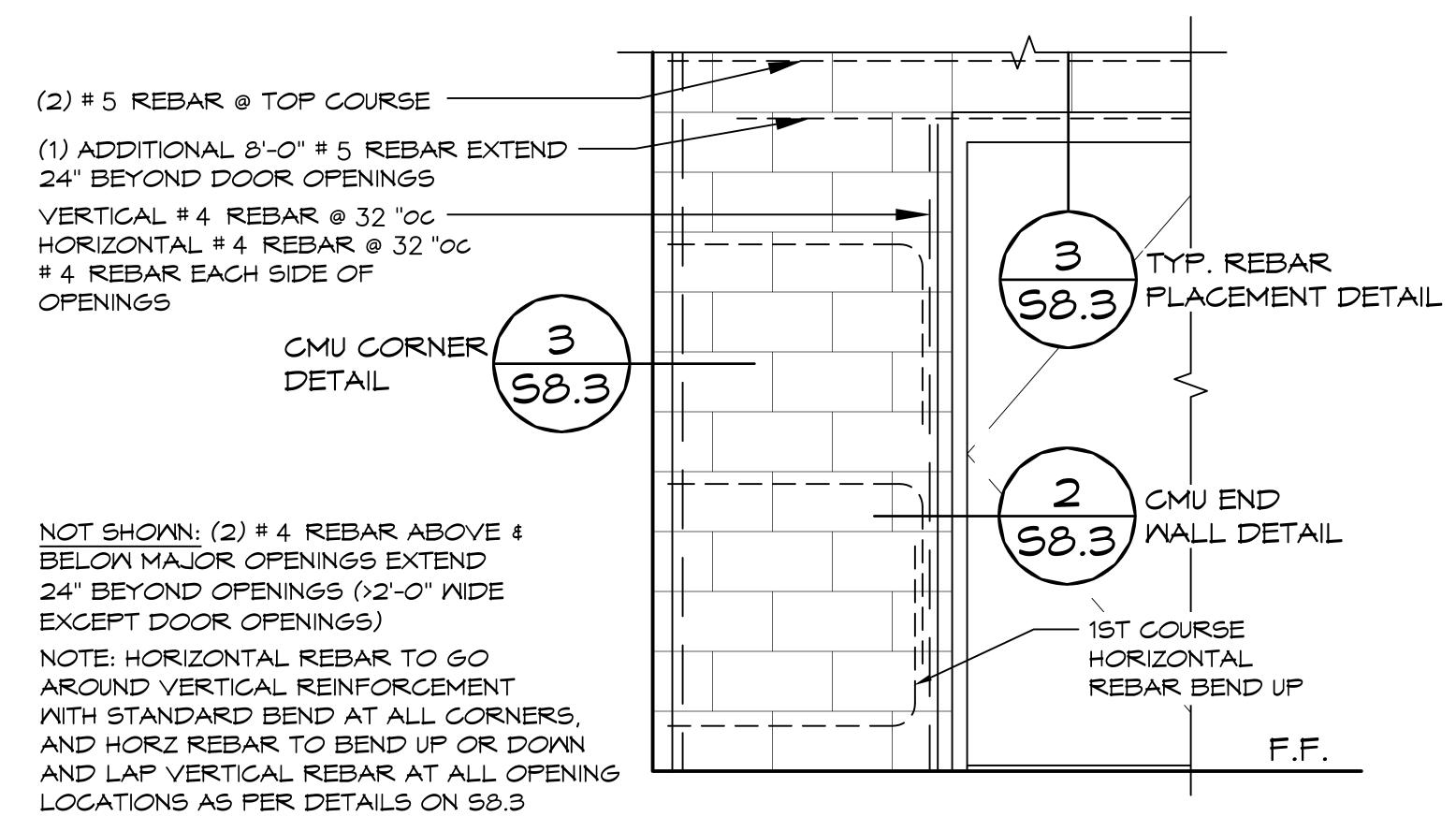
SCALE: 1" = 1'-0"



03/12/2025

ISHEET NO.





<i>C</i>	CMU REBAR SCHEDULE						
REBAR	MIN. LAP	BEND DIAMETER					
#4	24"	3" MIN.					
#5	30"	3-3/4" MIN.					

#### CMU REBAR NOTES:

- BENDS: MIN. INSIDE BEND DIAMETER
SHALL BE NOT LESS THAN 6d AS PER
TMS 402-16 SECTION 6.1.8.2
- SPLICES: LAP SPLICES ARE PERMITTE

- SPLICES: LAP SPLICES ARE PERMITTED AS PER TMS 402-16 SECTION 6.1.6.1.1

PIPES INSTALLED THROUGH CMU WALL NOTES:

- SUPPLY: THE FIXTURE SUPPLY LINE SHOULD

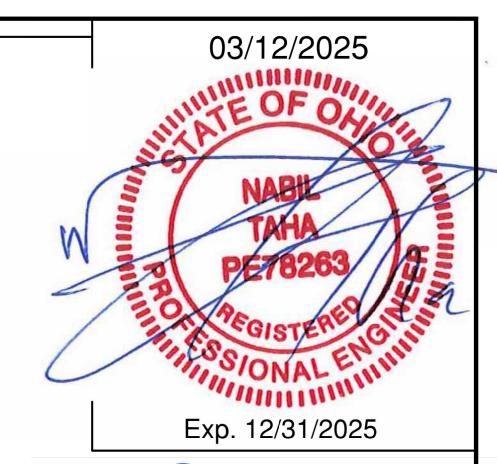
BE BORED A 1/2" LARGER THAN REQUIRED

LINE SIZE AND THE PORTION OF PIPE LOCATED

IN CMU WALL SHALL BE WRAPPED WITH 10MIL

BLACK TAPE

- WASTE PIPE: THE FIXTURE WASTE LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE.





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MU REBAR LAYOUT

1ADISON TW

SHEET STA

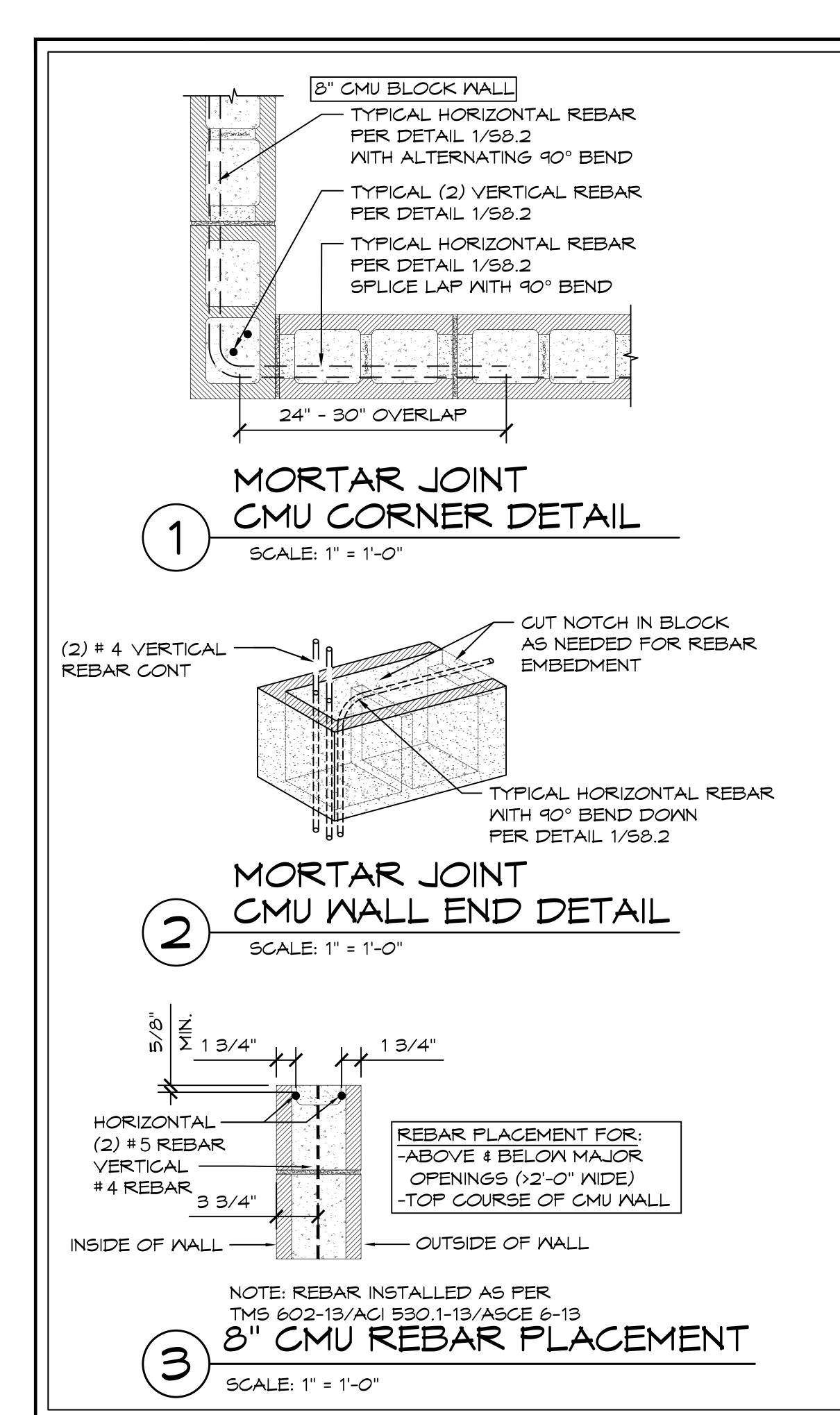
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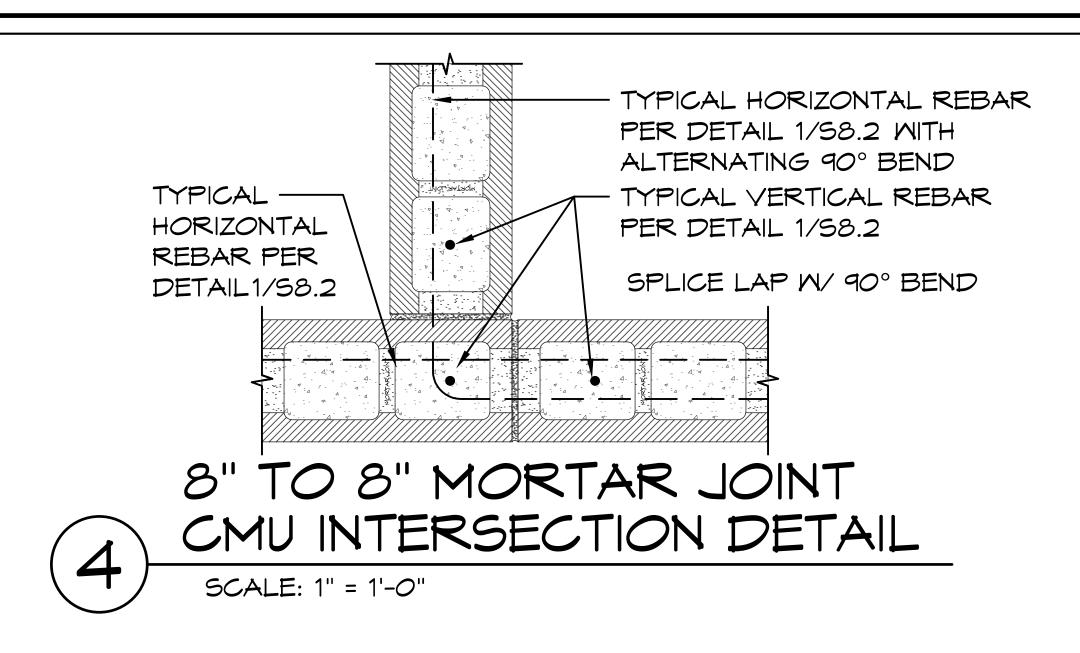
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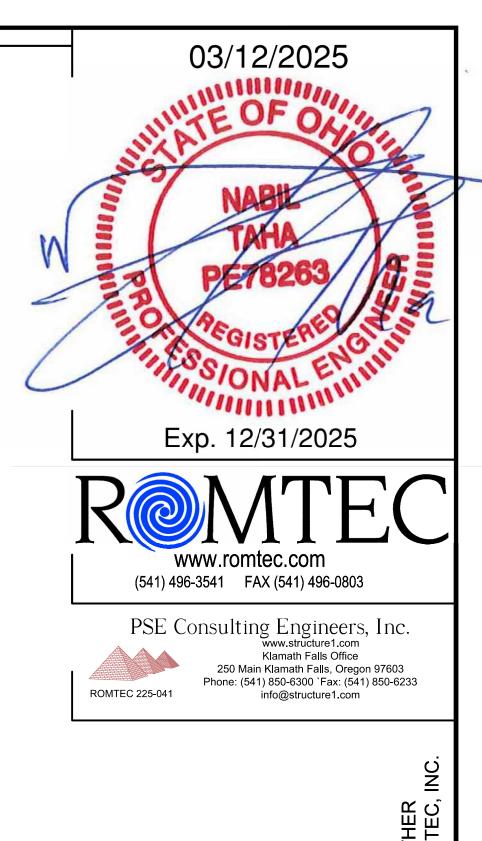
REVISIONS:

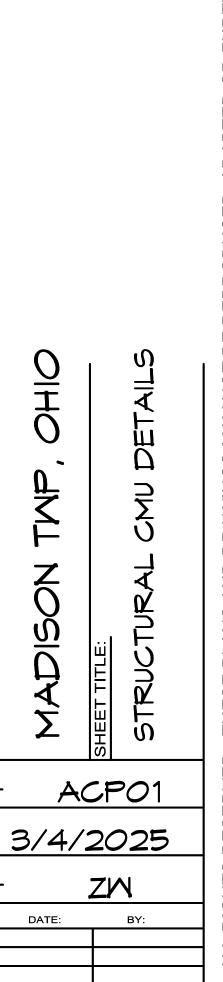
58.2

CMU REBAR LAYOUT DETAIL	
SCALE: 1/2" = 1'-0"	







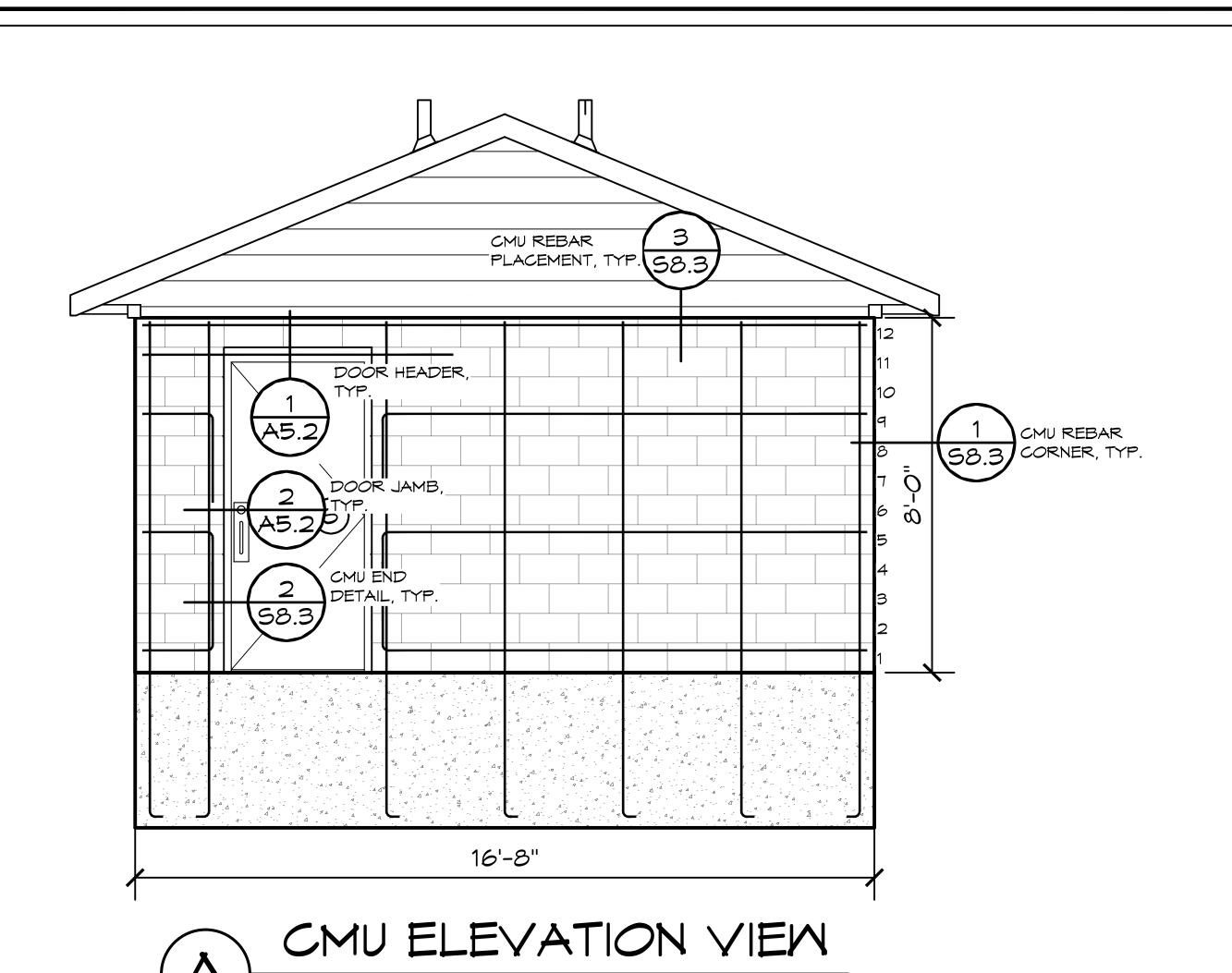


58.3

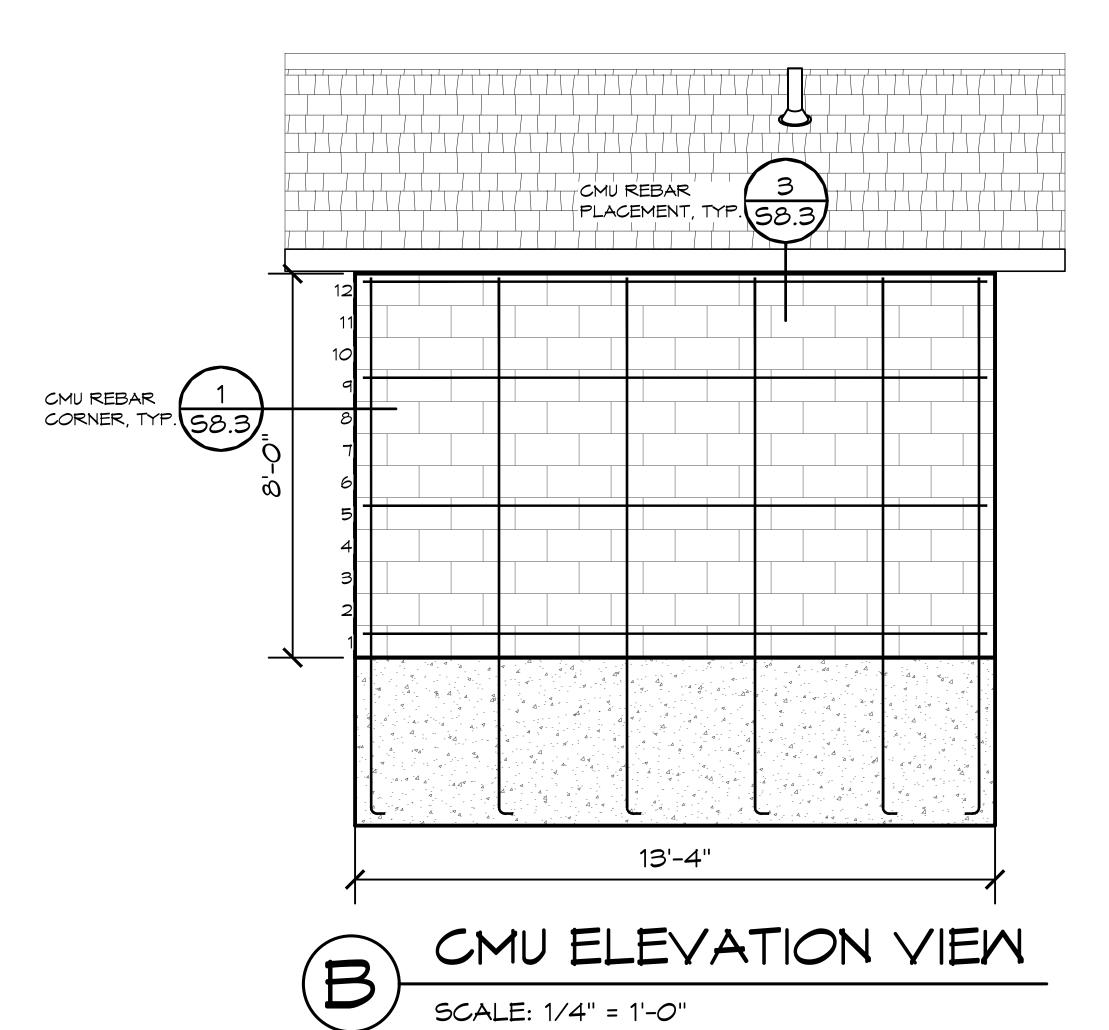
PROJECT #:

DRAWN BY:

**REVISIONS:** 



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



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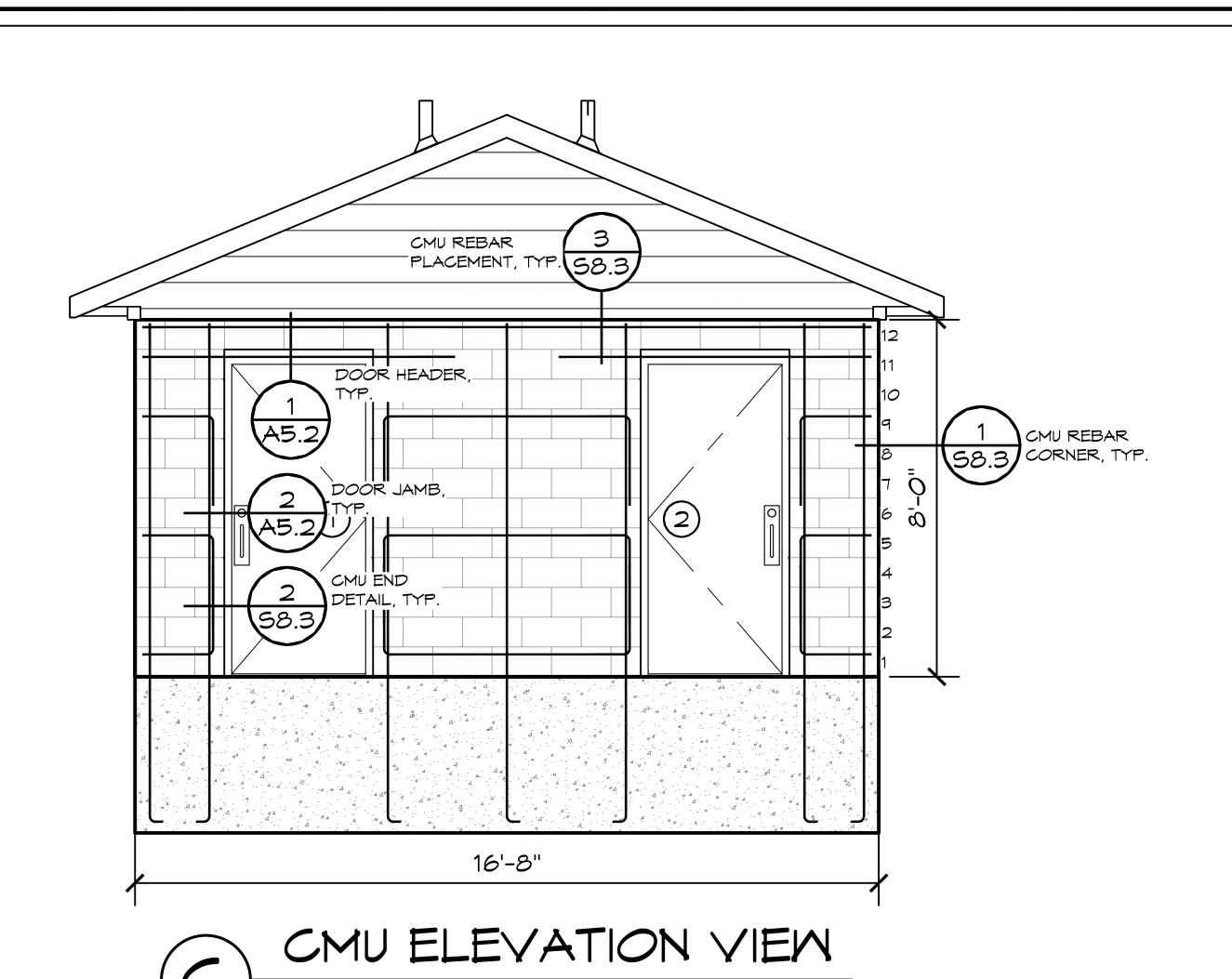
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ACPO1

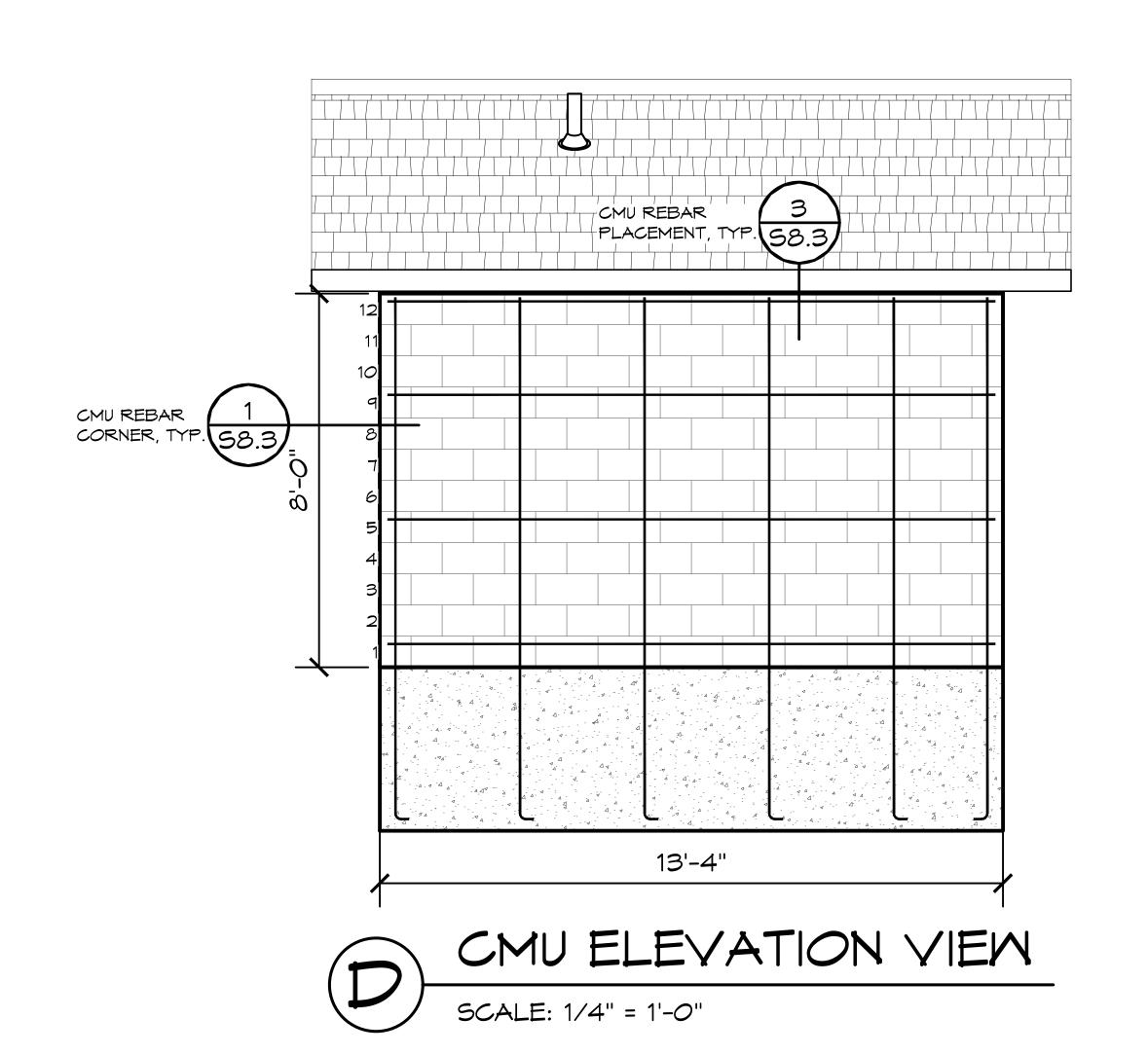
ZM

3/4/2025

**REVISIONS**:



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





ACPO1

ZM

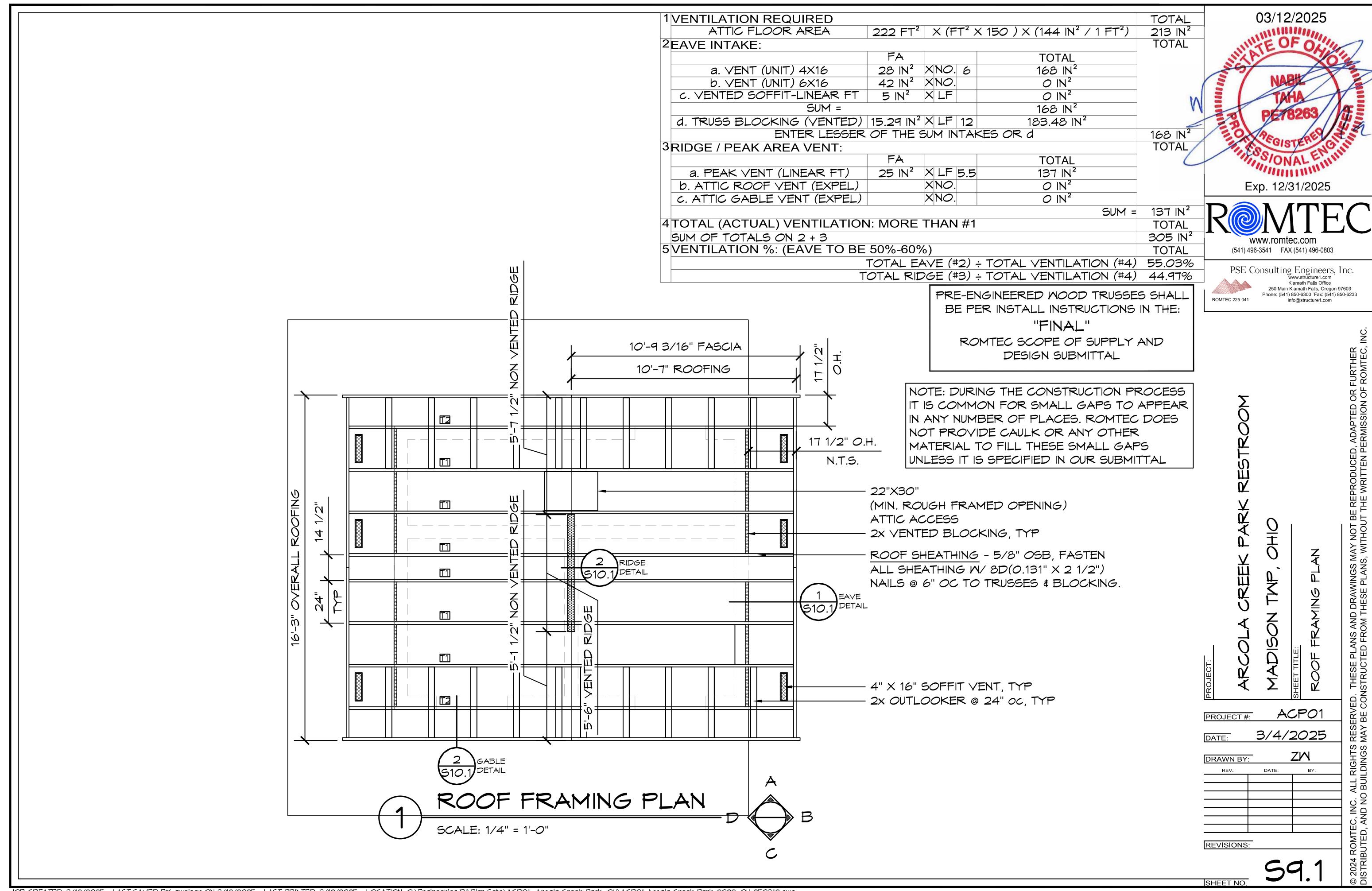
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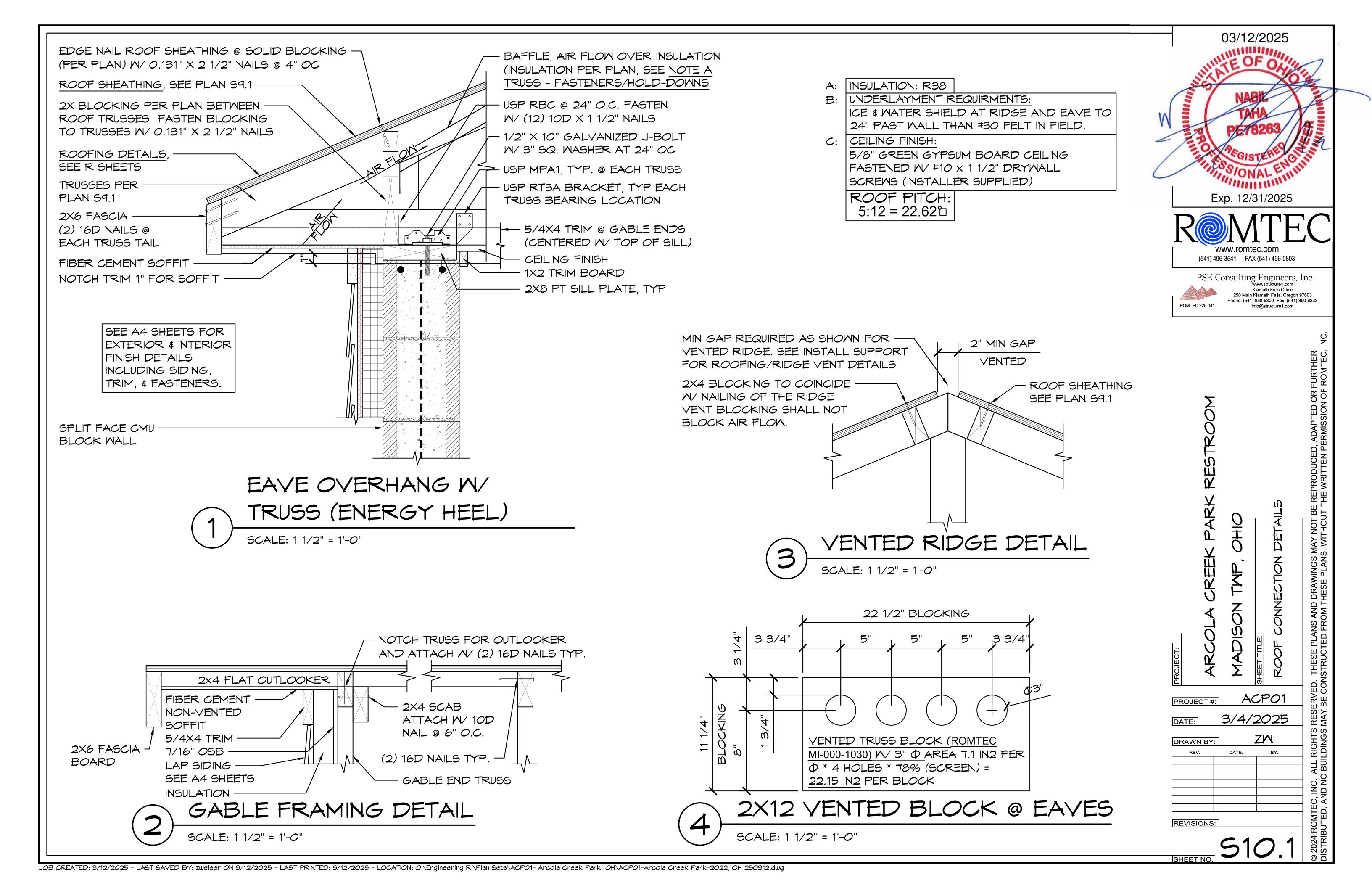
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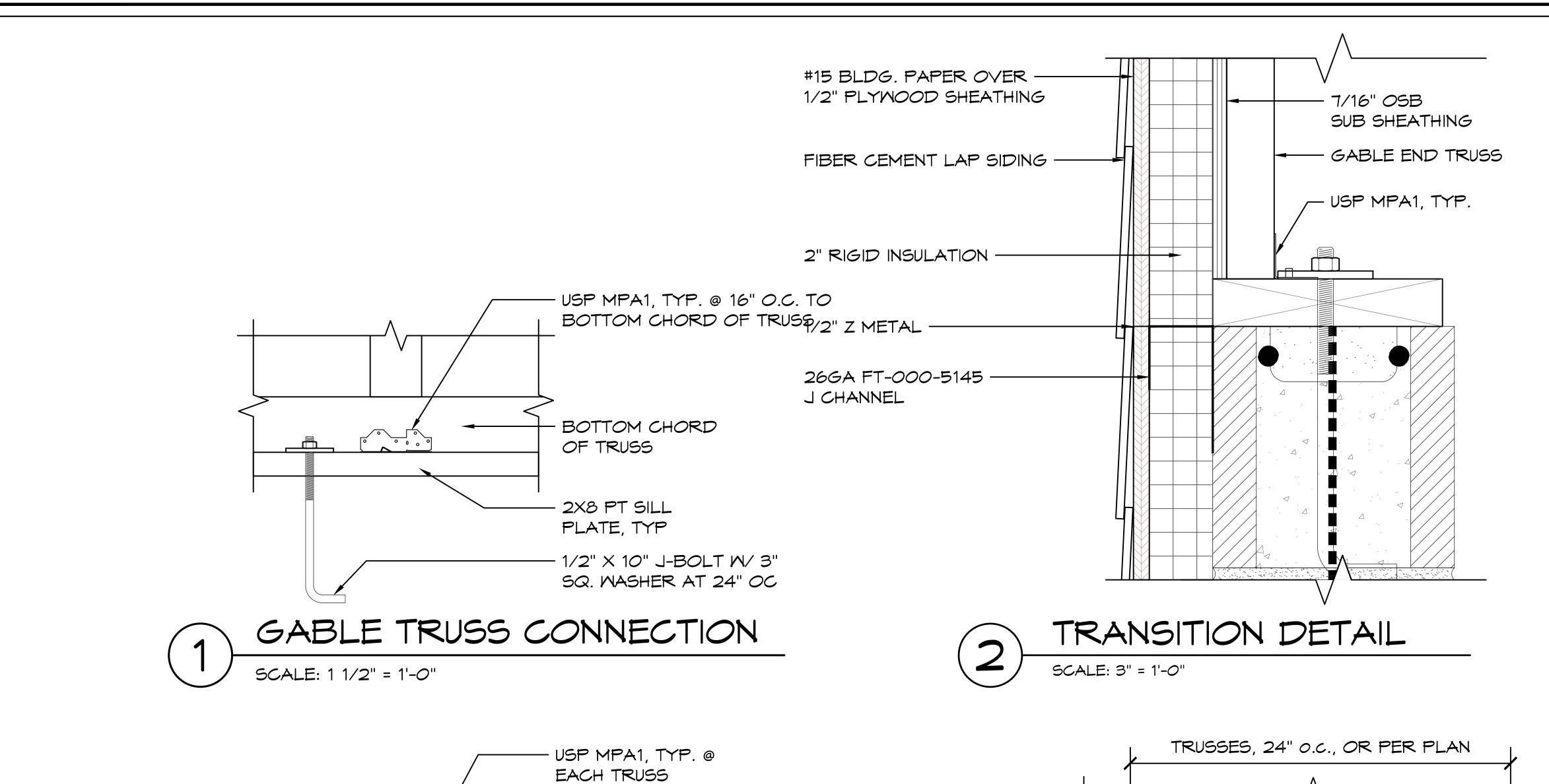
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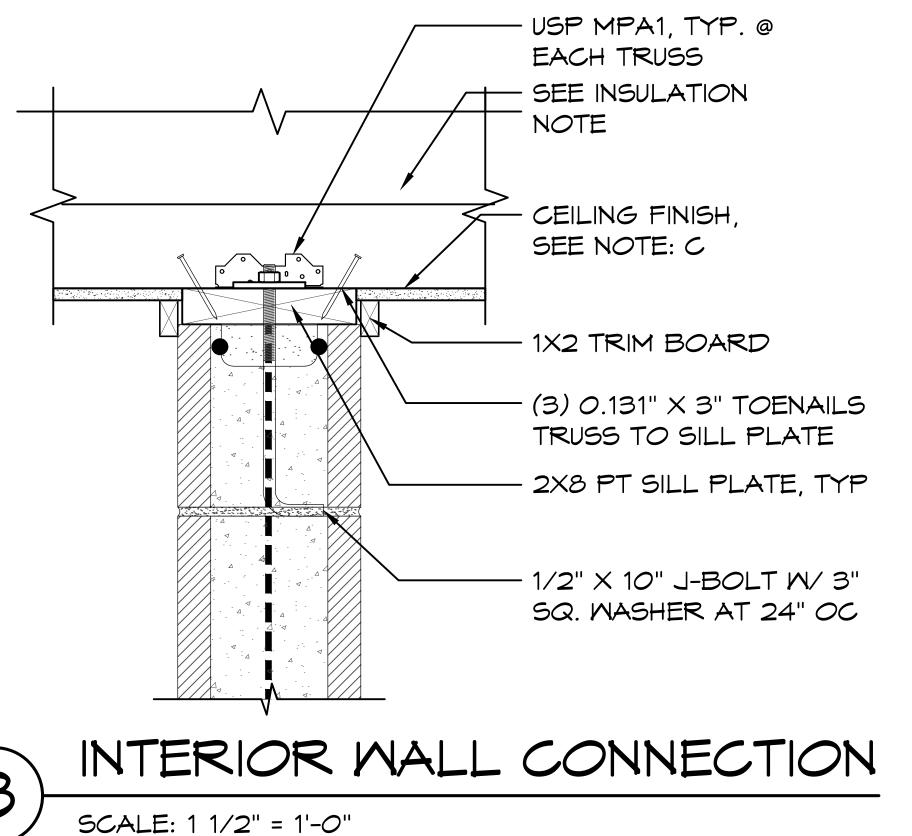
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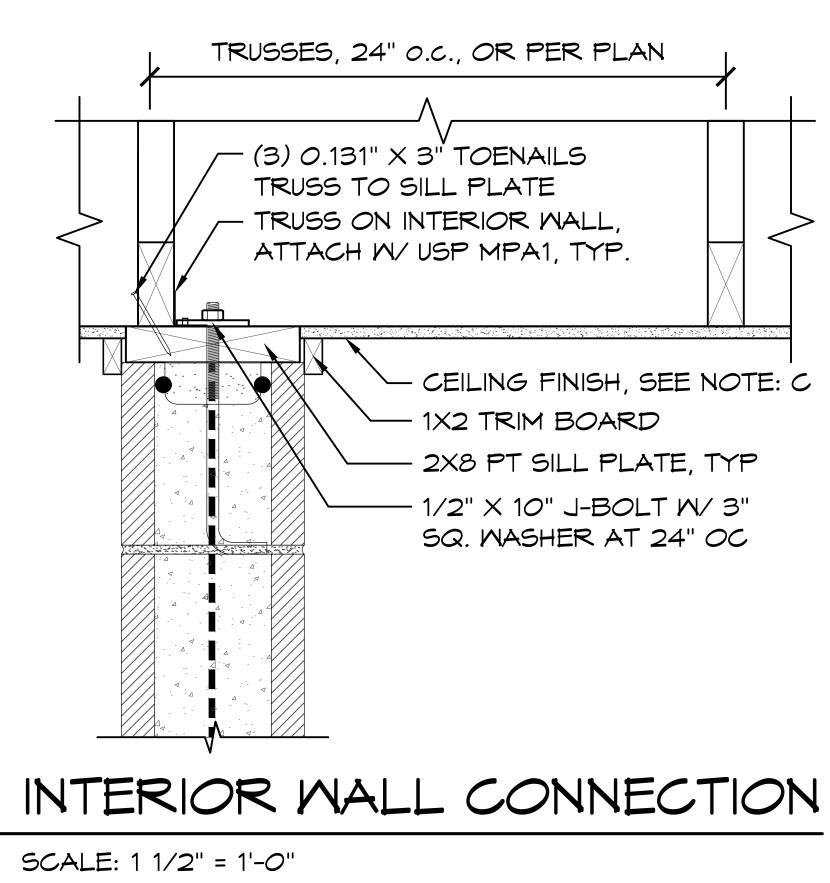


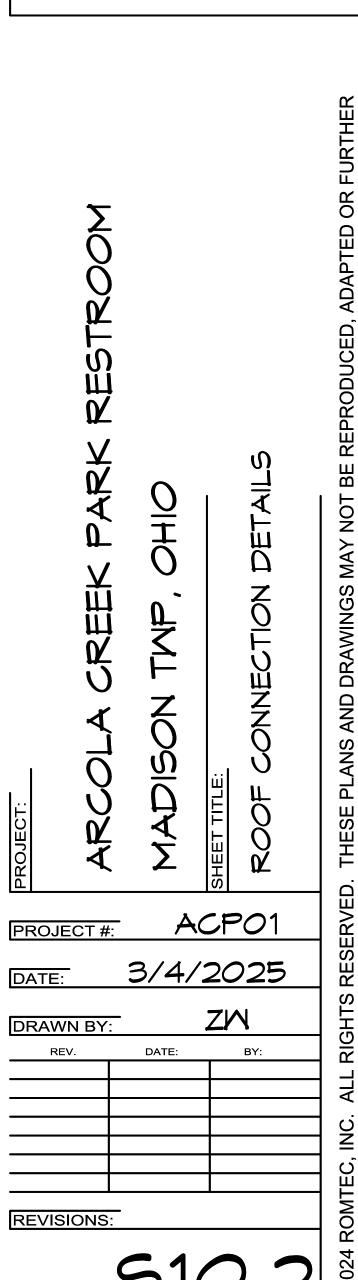
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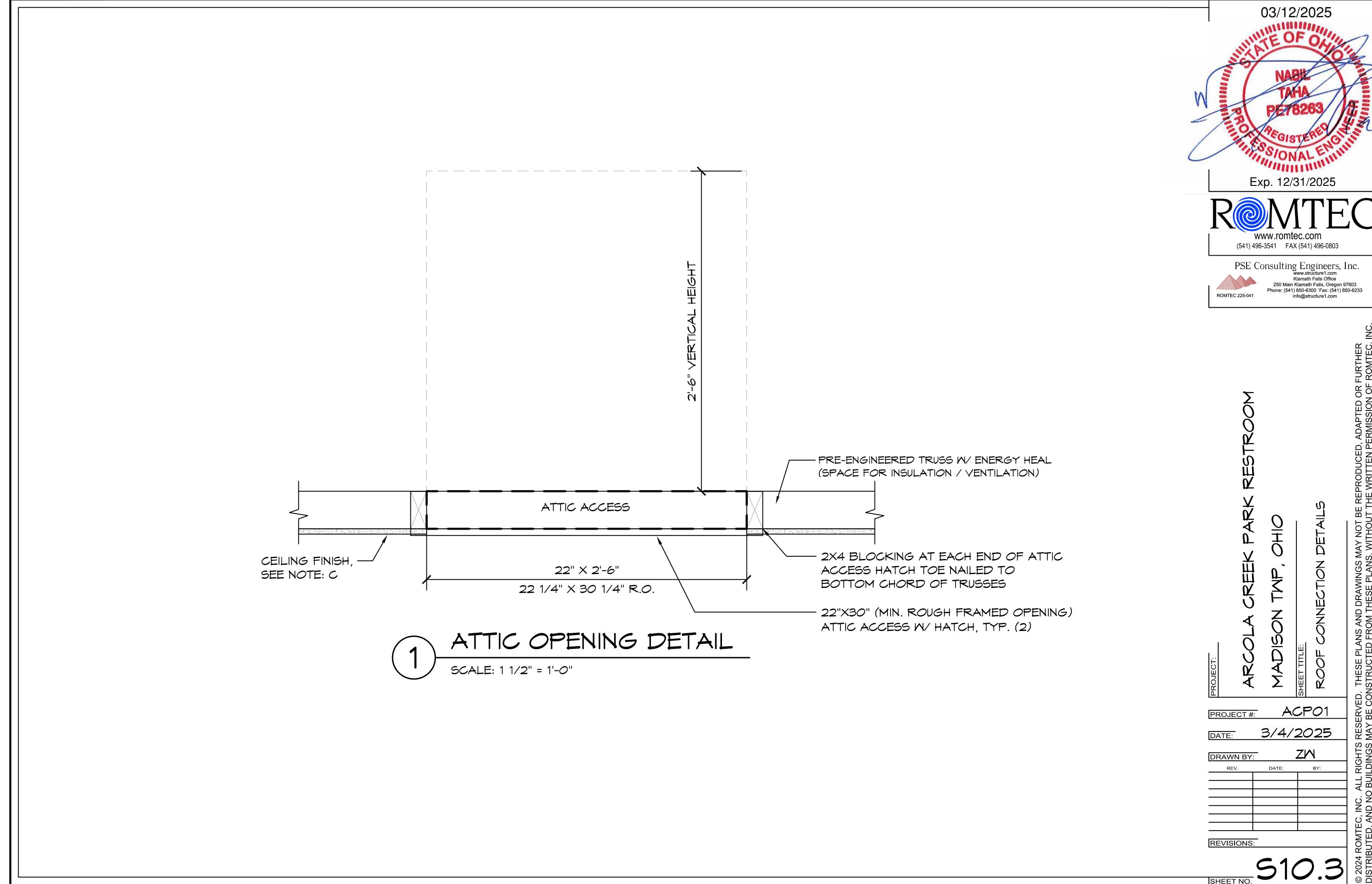
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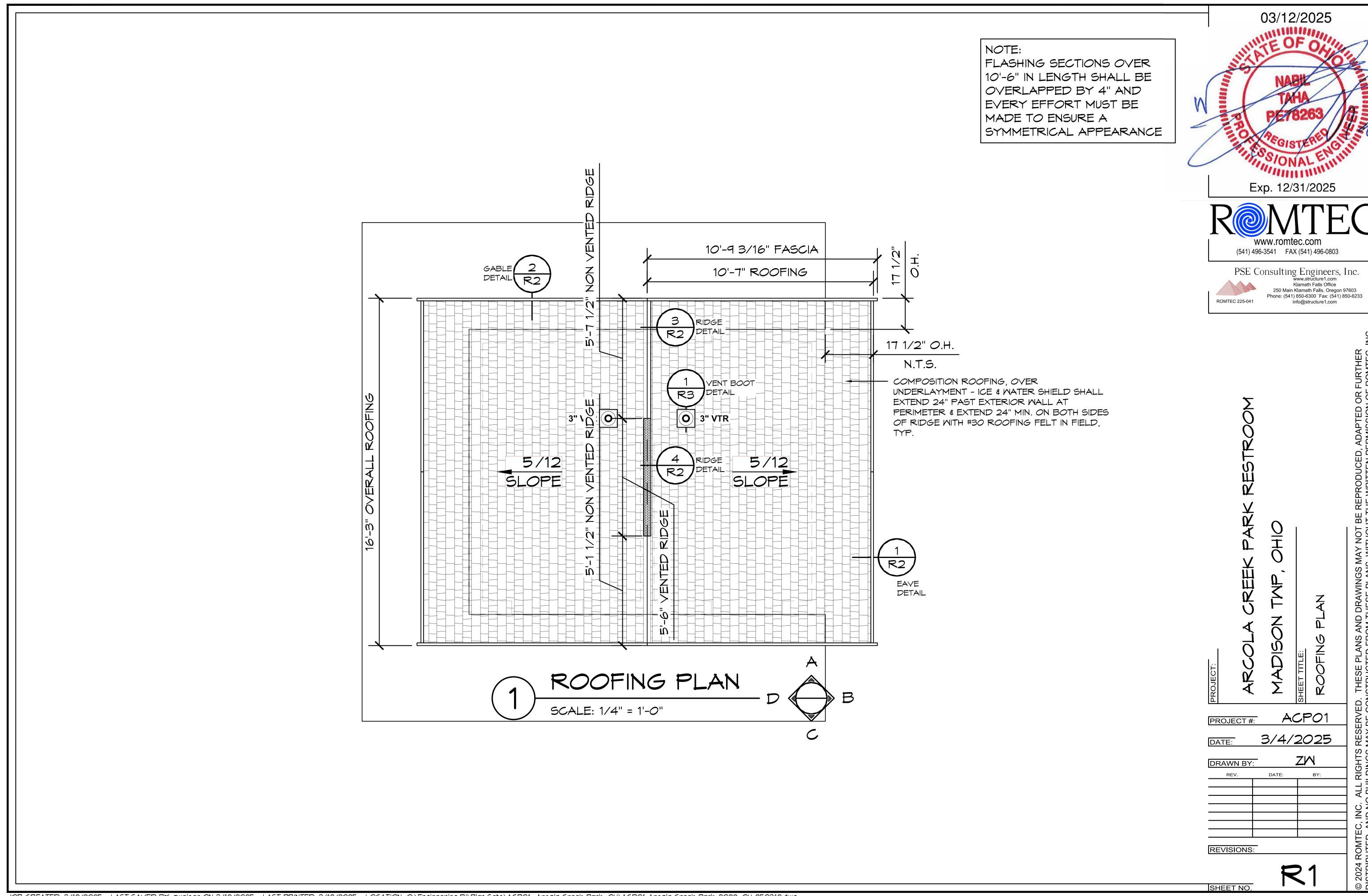
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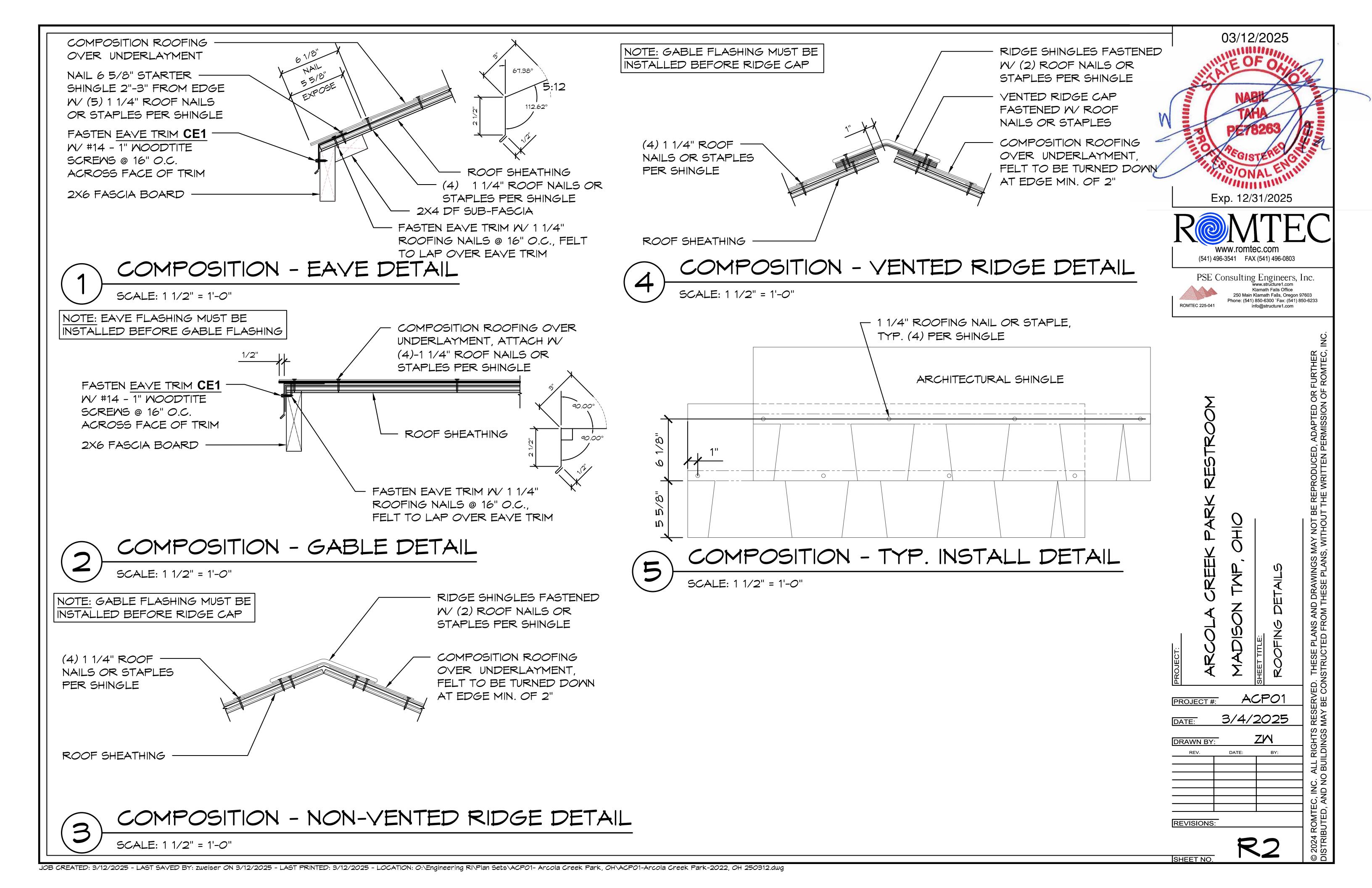
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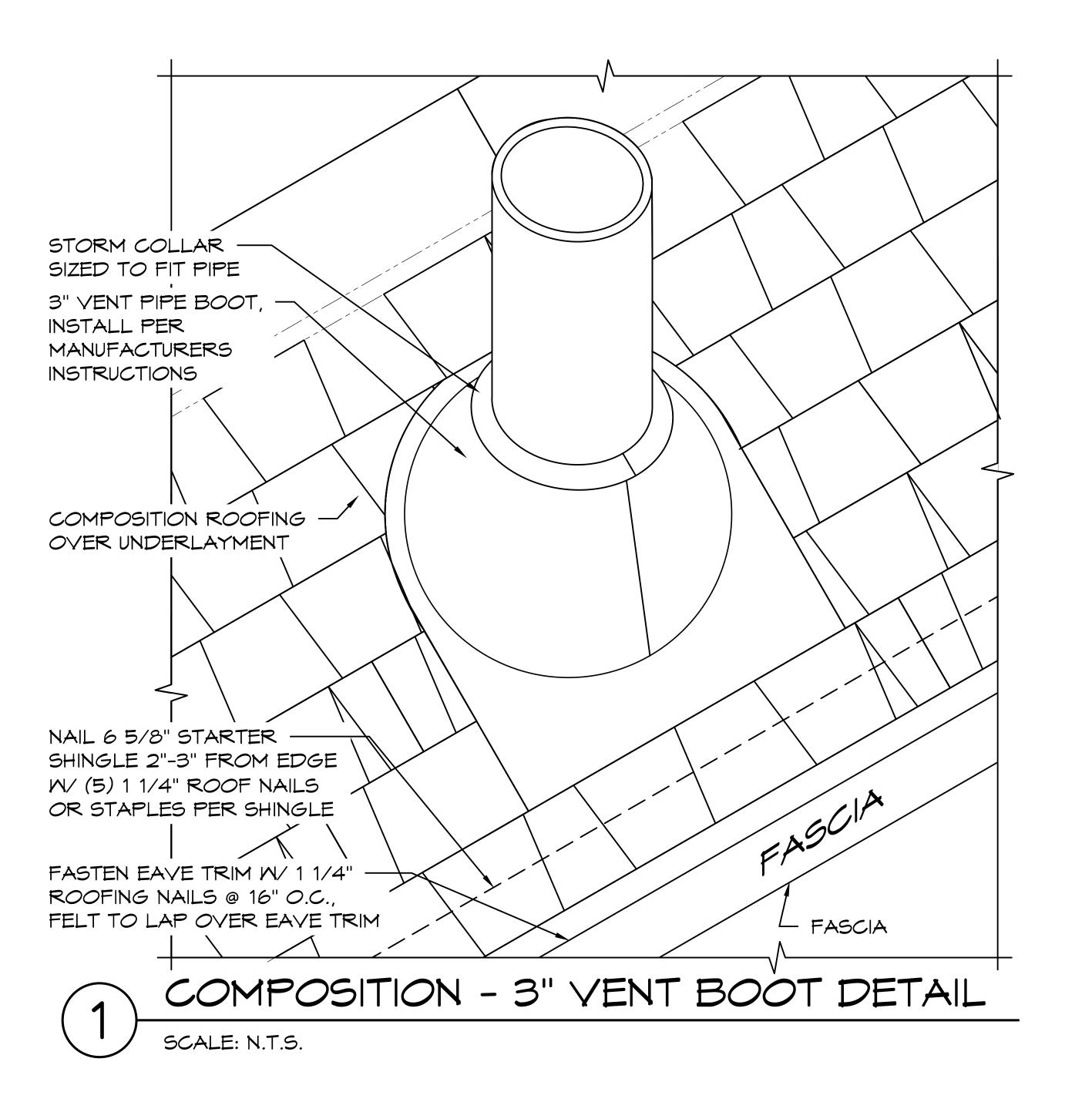
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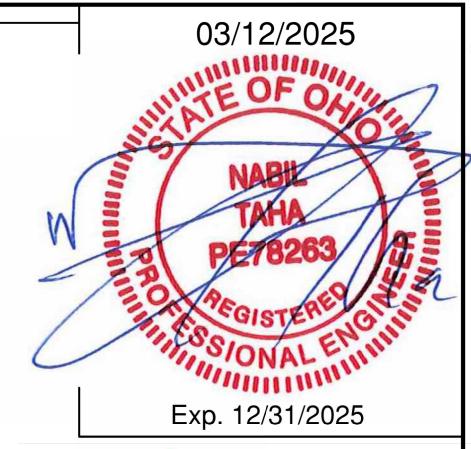




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ROMTEC 225-041

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Klamath Falls Office
250 Main Klamath Falls, Oregon 97603
Phone: (541) 850-6300 `Fax: (541) 850-6233
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ACP01

PROJECT #:

3/4/2025

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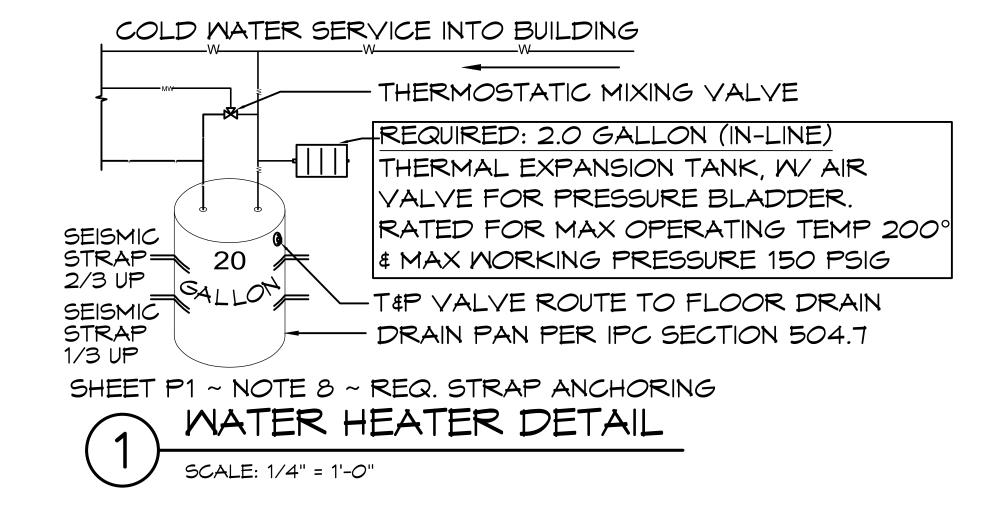
SHEET NO.

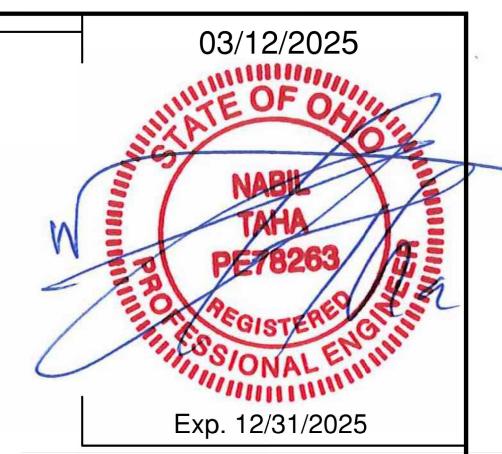
INTERNATIONAL PLUMBING CODE													
SYM	FIXTURE TYPE	SEMER	VENT	COLD	HOT MATER	MIXED MATER		M. FIXT. UNITS/EA	TOTAL M. FIXT UNITS	DR. FIXT UNITS	TOTAL DR. FIXT. UNITS		
WC-1	ADA TOILET	3"	2"	1"	X	X	2	10	10	4	8		
LV-1	HAND SINK	1 1/4"	1 1/2"	1/2"	X	X	2	2	4	1	2		
DF-1	DRINKING FOUNTAIN	1 1/2"	1 1/2"	1/2"	X	X	3	.25	.75	.5	1.5		
HB-1	WALL HYDRANT ANTI-FREEZE	X	X	3/4"	X	X	1	2	2	NA	NA		
HB-2	WALL FAUCET	X	X	1/2"	X	X	1	2	2	NA	NA		
WH-1	WATER HEATER (TANK)	X	X	3/4"	3/4"	1/2"	1	NA	NA	NA	NA		
FD-1	FLOOR DRAIN	3"	1 1/2"	X	X	X	1	NA	NA	2	2		
FD-2	FLOOR DRAIN (EMERGENCY)	3"	1 1/2"	X	X	X	2	NA	NA	NA	NA		
								TOTAL	18.75	TOTAL	13.5		

SIOUX CHIEF (3" W/6" STRAINER)

## GENERAL PLUMBING NOTES:

- 1. ALL PIPE (MATER, SEMER, VENT), JOINTS, AND MORK SHALL CONFORM TO INTERNATIONAL PLUMBING CODE, STATE CODES, COUNTY AND LOCAL CODES AND ORDINANCES.
- 2. CONTRACTOR TO CONFIRM LOCATIONS OF SEMER AND WATER TIE-INS
- 3. CONTRACTOR TO SOLIDLY BRACE ALL PIPING TIGHT AGAINST WALLS. FOR LONG OR COMPLICATED RUNS, SECURELY MOUNT USING UNISTRUT, IN STRAIGHT AND UNIFORM MANNER FOR FINISHED APPEARANCE. PIPING SHOWN IS DIAGRAMMATIC ONLY AND ACTUAL DESIGN BY CONTRACTOR.
- 4. CONTRACTOR MAY CHANGE PIPE SIZING IN FIELD TO PROVIDE ADEQUATE WATER PRESSURE TO ALL PLUMBING FIXTURES AS APPROVED BY INSPECTOR. ROMTEC BUILDINGS ARE DESIGNED TO HAVE 40-60 PSI WATER PRESSURE FOR THE PLUMBING FIXTURES. IF THE SITE HAS A PRESSURE OTHER THAN THIS, IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE THE PRESSURE REDUCER OR BOOSTER PUMP NECESSARY.
- 5. CONTRACTOR TO DETERMINE AND PROVIDE MEANS FOR GRAVITY DRAINING ALL PLUMBING FIXTURES TO SEPTIC OR SANITARY SEWER SYSTEM. INSTALLER TO PROVIDE A CLEAN-OUT BENEATH ALL SINKS AND LAVATORY AS REQUIRED BY CODE.
- 6. CONTRACTOR TO DETERMINE AND PROVIDE MEANS FOR SUPPLYING WATER TO ALL PLUMBING FIXTURES AND INSTALL WATER SERVICE SHUTOFF VALVE; TYPICALLY LOCATED WITHIN THE MECHANICAL ROOM.
- 7. IF THE SITE REQUIRES AN ACCESSIBLE BACK FLOW PREVENTER AND/OR PRESSURE REDUCER OR BOOSTER PUMP IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE.
- 8. WHEN INCLUDED WATER HEATERS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ALL STATE, COUNTY, AND LOCAL CODES AND ORDINANCES.
- 9. FLUSHOMETERS ASSOCIATED WITH TOILETS USE NO MORE THAN 1.6 GALLONS PER FLUSH.
  FLUSHOMETERS ASSOCIATED WITH URINALS USE NO MORE THAN 1.0 GALLON PER FLUSH. BOTH OF
  THE ABOVE SHALL MEET PERFORMANCE STANDARDS BY ANSI A112.19.2 H&S CODE, SECTION 17921.3(B)
- 10. WHEN FIXTURES REQUIRE WALL CARRIERS THE WALL CARRIER SHALL BE SUPPLIED BY CONTRACTOR.
- 11. UNLESS SPECIFIED IN THE ROMTEC SUBMITTAL, ROMTEC DOES NOT SUPPLY INSULATION OR "FREEZE PROTECTION" FOR PLUMBING. "THE OWNER MAY NEED TO WINTERIZE THEIR BUILDING."







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OLA CREEK PARK RESTROOM SISON TWP, OHIO

MAD SHEET TITLE

PROJECT #: ACPO1

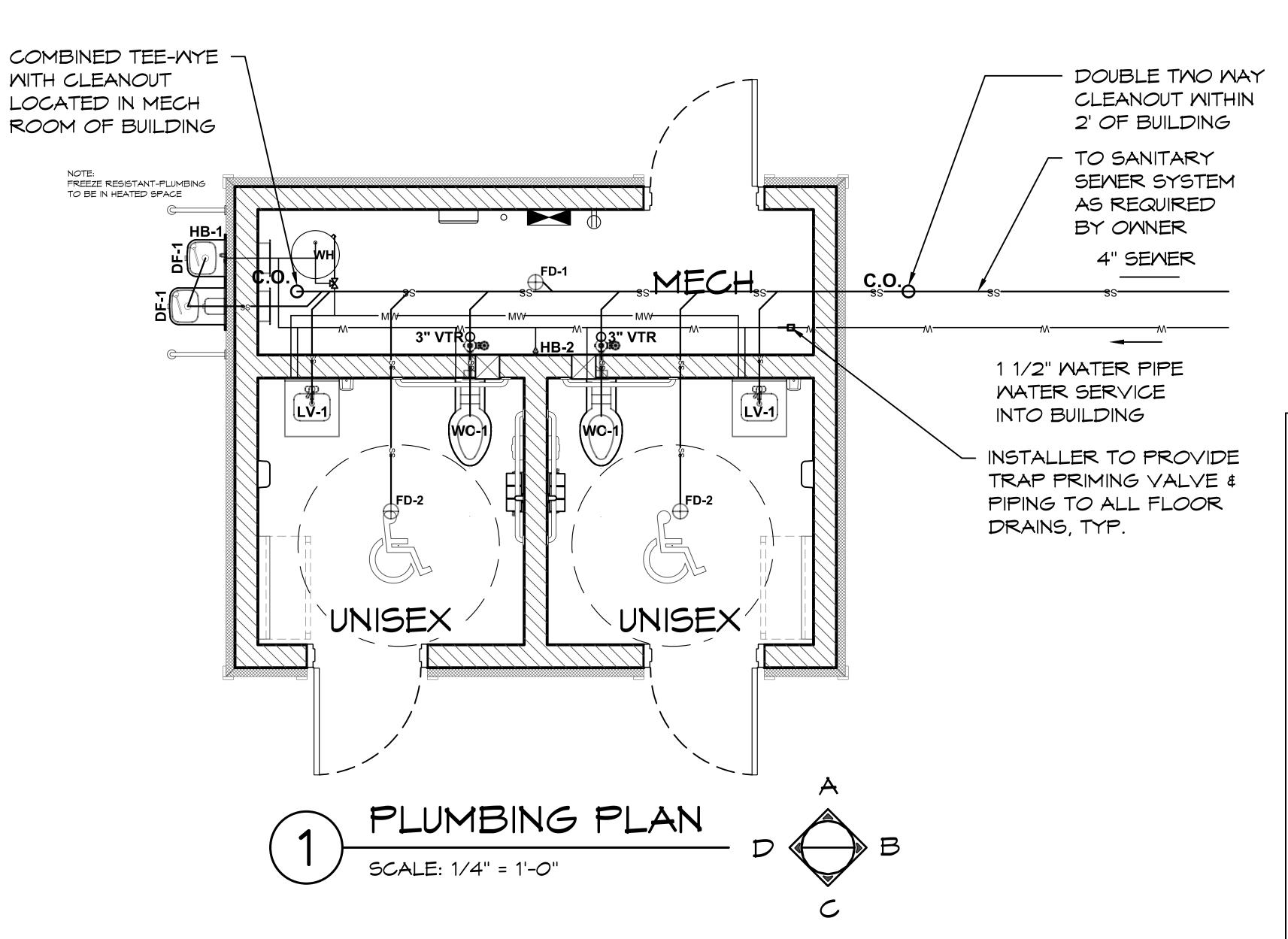
DATE: 3/4/2025

DRAWN BY: ZM

REVISIONS:

P1

SHEET NO.



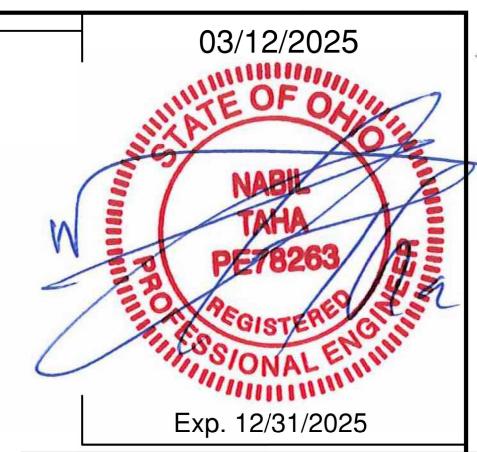
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MATER-PLUMBING LEGEND COLD WATER MIXED WATER HOT MATER SEMER-PLUMBING LEGEND SANITARY SEMER

\*FIXTURES ARE SYMBOLIC ONLY, REFER TO SPECIFICATIONS & PRODUCT LITERATURE FOR THE FIXTURE ROUGH-IN MEASUREMENTS \$ INSTALLATION DETAILS.

# IPC NOTES

- 1. WATER PIPE SIZE AND PRESSURE REQUIREMENTS MUST BE CONFIRMED BY PLUMBING CONTRACTOR BASED ON LOCAL SUPPLY.
- 2. FIXTURE & FIXTURE CONNECTIONS ARE SYMBOLIC IN NATURE ONLY. REFER TO MANUFACTURER LITERATURE FOR EXACT FIXTURE SPECIFICATIONS.
- 3. ALL SANITARY AND DRAIN LINES SHALL BE SCHEDULE 40 PVC OR ABS.
- 4. ALL WATER LINES SHALL BE COPPER OR PER LOCAL CODE. NO JOINTS BENEATH THE SLAB.
- 5. MATER PIPE SIZING IS A MINIMUM SUGGESTION. PLUMBING CONTRACTOR WILL MAKE THE FINAL DETERMINATION.





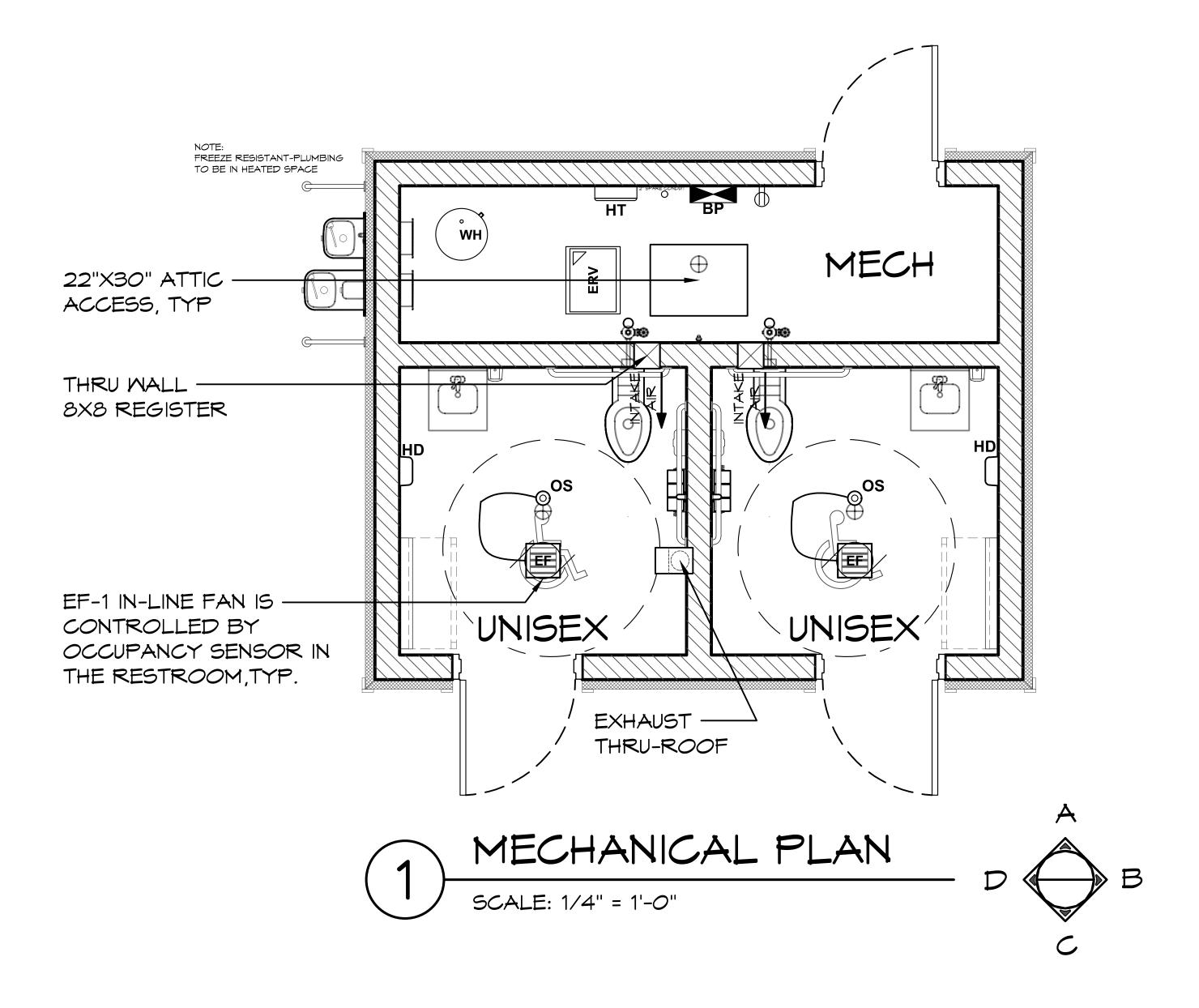
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ACPO1 PROJECT #:

3/4/2025 ZM DRAWN BY:

**REVISIONS:** 

SHEET NO.



### MINIMUM VENTILATION RATES:

#### PUBLIC SPACES

TOILET ROOMS (PER MC OR UR)
EXHAUST AIRFLOW RATE
50 CFM - OPERATES CONTINUOUSLY WHILE OCCUPIED
70 CFM - OPERATES INTERMITTENTLY

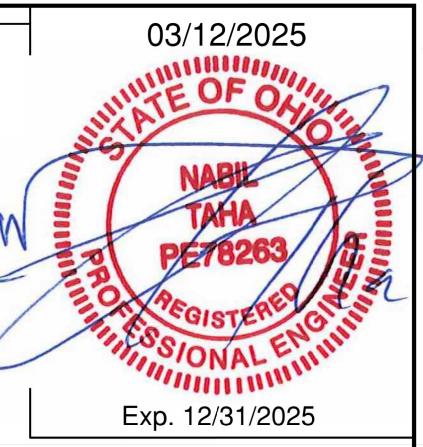
MECHANICAL EXHAUST SYSTEM SHALL BE INSTALLED PER INSTALL INSTRUCTIONS & DETAILS IN THE:

#### "FINAL"

ROMTEC SCOPE OF SUPPLY AND DESIGN SUBMITTAL

#### NOTES:

- 1. EXHAUST FANS AND ALL DUCTING TO BE MOUNTED USING DUCT HANGERS OR EQUIVALENT PER DIRECTIONS FURNISHED BY MANUFACTURE, IN ACCORDANCE WITH THE MECHANICAL CODE AND SMACNA STANDARDS.
- 2. ALL DUCTMORK: RIGID DUCT W/ R8.3 INSULATED WRAP (UL LISTED CLASS 1 AIR DUCT). PROVIDE SHEETMETAL FITTINGS AT MAIN DUCT RUNOUTS AND CONNECTIONS WITH A MINIMUM OF THREE SHEETMETAL SCREWS AND TAPED TO PROVIDE AN AIRTIGHT SEAL. SUPPORT FLEX AS DIRECTED BY MANUFACTURER, NOT TO EXCEED 4'-0".
- 3. THE DUCT DISCHARGES THRU A ROOF CAP W/DAMPER, SCREEN AND COLLAR.
- 4. BUTTERFLY DAMPER PROVIDED IN THE DUCT LINE TO EACH REGISTER
- 5. FANS ARE CONTROLLED BY OCCUPANCY SENSORS LOCATED IN EACH ROOM.



Resulting National Na

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250 Main Klamath Falls, Oregon 97603
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RCOLA CREEK PARK RESTROOM

MADISON TMP SHEETTILE:

PROJECT #: ACPO1

DATE: 3/4/2025

DRAWN BY: ZM

REVISIONS:

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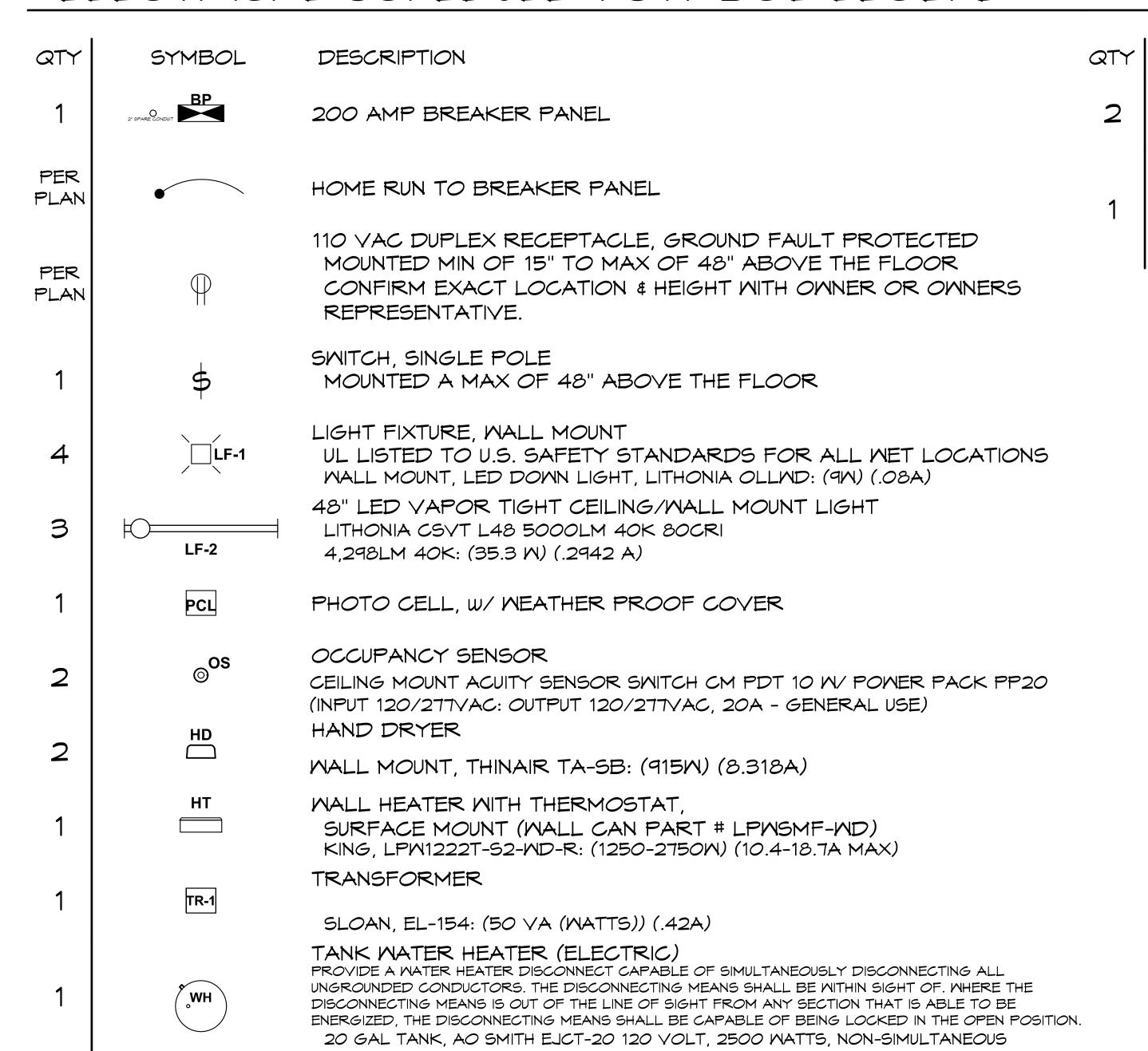
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## GENERAL ELECTRICAL NOTES:

- 1. ALL WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.
- 2. OWNER TO PROVIDE TEMPORARY POWER AS REQUIRED DURING COURSE OF CONSTRUCTION.
- 3. ELECTRICAL SERVICE EQUIPMENT SUPPLIED BY OTHERS UNDER SEPARATE SUBMITTAL.
- 4. THE AIC VALUES SHOWN ON THESE ROMTEC PLANS ARE TO BE MADE CLEARLY AVAILABLE TO THE ELECTRICAL ENGINEER OF RECORD THAT WILL DESIGN THE MAIN SERVICE.
- 5. THE INSTALLER SHALL FURNISH & INSTALL SPECIFICATION GRADE CIRCUIT BREAKERS, WIRING, CONDUIT, SWITCHES AND GFI RECEPTACLES THROUGHOUT. INTERIOR RECEPTACLES & SWITCHES SHALL HAVE STAINLESS STEEL COVERPLATES AND EXTERIOR RECEPTACLES SHALL BE INSTALLED WITH A WEATHERPROOF IN USE COVER.
- 6. ELECTRICAL CONDUIT IS TO BE RUN MITHIN THE WALL WHEN POSSIBLE, EXCEPT IN THE MECHANICAL ROOM.
- 7. FOR MECHANICAL ROOM ALL EXPOSED CONDUIT IS TO BE SURFACE MOUNTED AND RUN TIGHT TO CEILING AS REQUIRED.
- 8. COORDINATE AC OUTLET HEIGHTS WITH OWNER PRIOR TO ROUGH-IN.

# ELECTRICAL SCHEDULE & SYMBOL LEGEND:



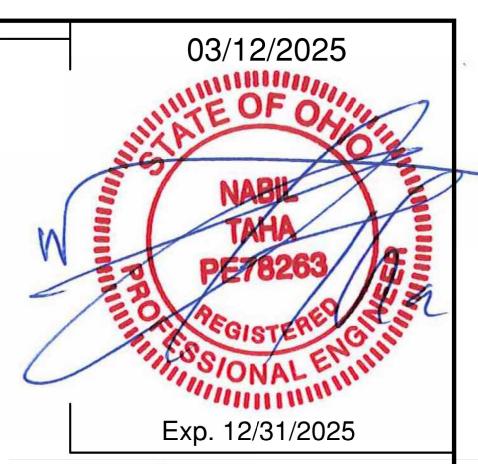
SYMBOL DESCRIPTION

(EF)

INLINE DUCT EXHAUST FAN SYSTEM

S&P, TD-100 - 4": (26W) (0.22A)
VENTILATOR CEILING MOUNT

PANASONIC FY-06YE1 10-20-40 CFM / 10-20-30 CFM SUPPLY





PSE Consulting Engineers, Inc.

www.structure1.com

Klamath Falls Office

250 Main Klamath Falls, Oregon 97603

Phone: (541) 850-6300 `Fax: (541) 850-6233

MADISON TMP, OHIO

SHEET TITLE:

SHEET TITLE

PROJECT #:

DRAWN BY:

**REVISIONS:** 

SHEET NO.

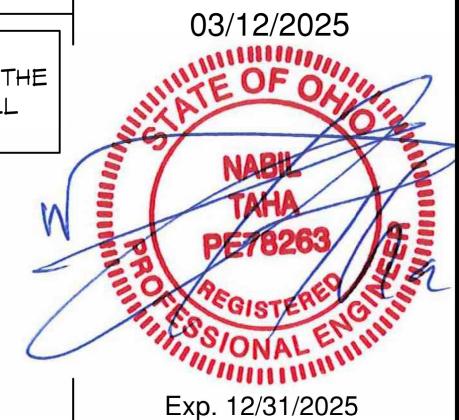
DATE:

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ROMTEC HAS DESIGNED THIS ELECTRICAL SYSTEM TO MEET THE NEEDS OF THIS SPECIFIC FACILITY. SITE DESIGN AND ENGINEERING BY OTHERS. OWNER IS RESPONSIBLE TO PROVIDE ALL SERVICE AND/OR UTILITY ENTRANCE DESIGN. FIELD VERIFY THAT SERVICE CONDUCTOR SIZE IS ADEQUATE FOR VOLTAGE DROP. ANY ADDITIONAL POWER OR LIGHTING LOADS NOT SHOWN ON THESE PLANS SHALL BE ENGINEERED BY OTHERS.

NOTE: SEE SHEETS A1.4, A2.1, & A2.2 FOR LOCATIONS - HEIGHTS OF ELECTRICAL FIXTURES. NOTE: BREAKER PANEL MAY BE
RELOCATED AT THE DISCRETION OF THE
INSTALLER, PANEL MUST MAINTAIN ALL
APPLICABLE CODE CLEARANCES.

- UNDERGROUND ELECTRICAL
SERVICE VERIFY REQUIREMENTS
FOR TYING INTO SERVICE UTILITY
EQUIPMENT BY OTHERS.



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Phone: (541) 850-6300 `Fax: (541) 850-623
ROMTEC 225-041 info@structure1.com

COLA CREEK PARK RESTROOM

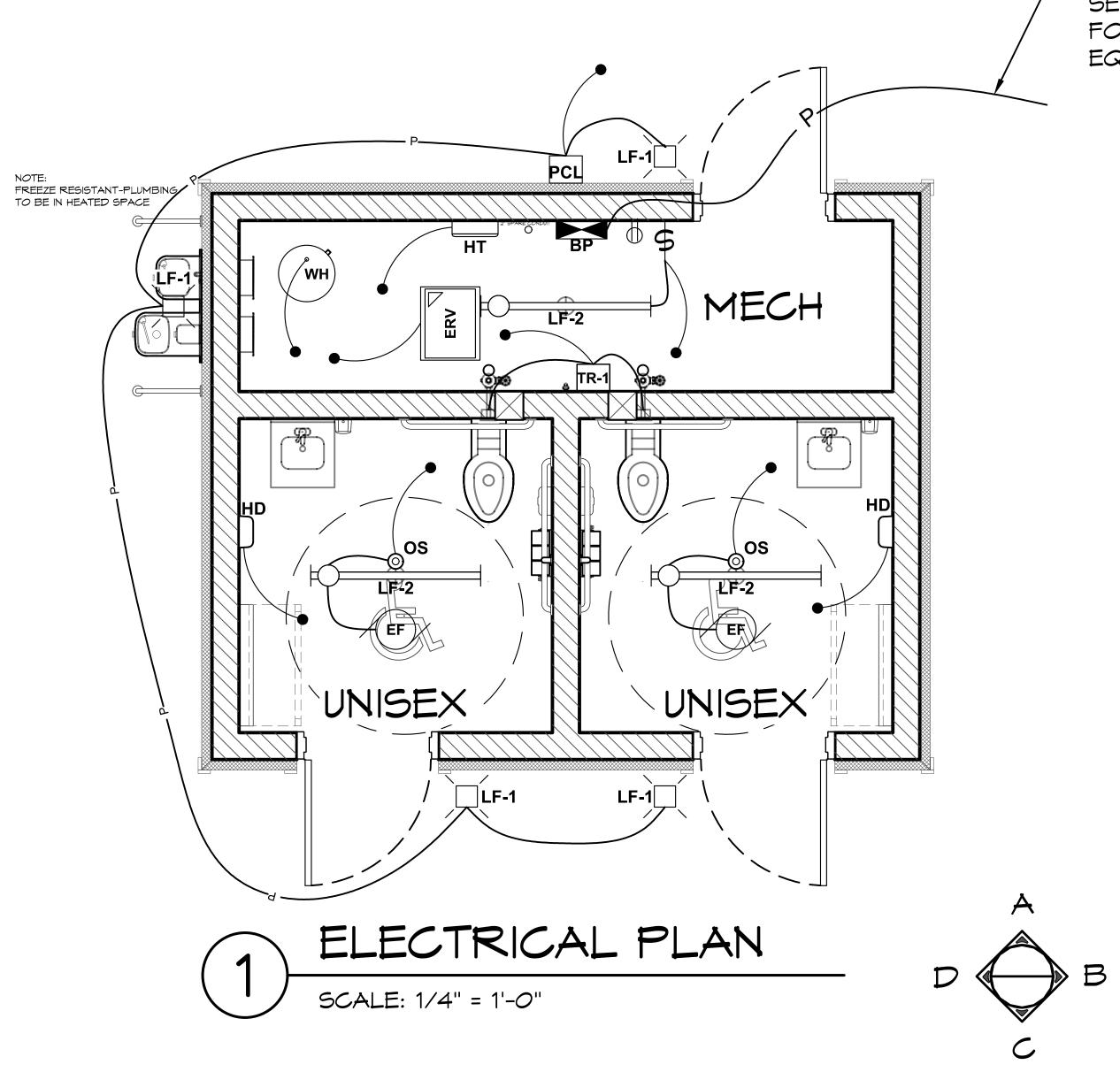
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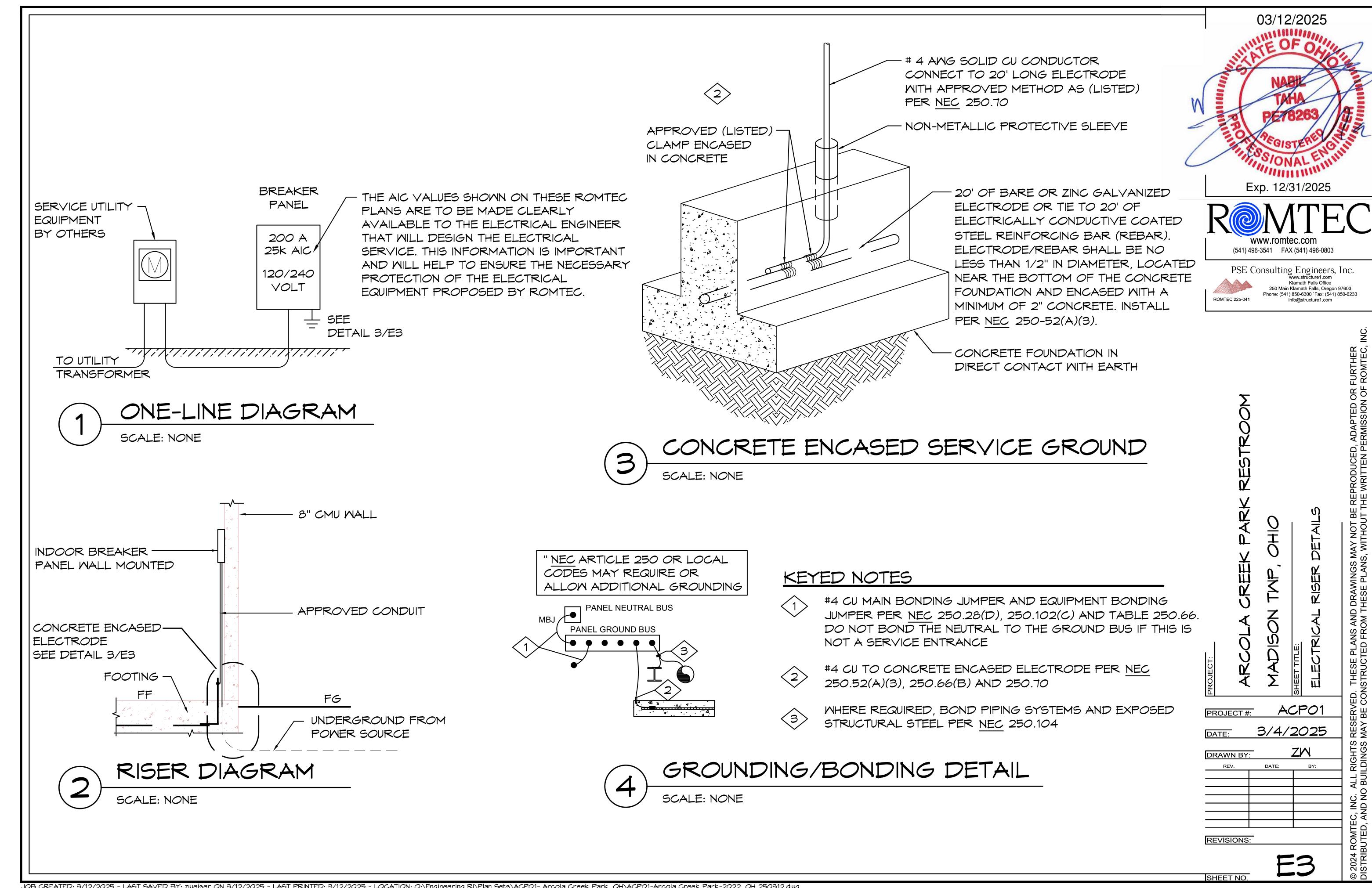
PROJECT #: ACPO1

DATE: 3/4/2025

REVISIONS:

ISHEET NO.





#### MISCELLANEOUS MATERIALS PART & MATERIAL LIST LOAD WOOD MATERIAL LIST HARDWARE SCHEDULE DECKING NOTES LOAD DETAIL ON SHEET LOAD NOM. LAMS LUMBER NOTES NO. REQ'D DESCRIPTION MARK SIZE CAMBER MARK CONN. NO. DESCRIPTION LENGTH 3,872 FBM OF 2x6 S.Y.P., #I GRADE, T & G, V-JOINT FACE SIDE (7.5% WASTE) BEAM B-305P 5" WIDE SEE DETAIL 2" | 24F-V3 24 | PL 3/8" x 5" x 1'-4" NONE MK-I S-I Α LENGTHS: (88) - 10', (88) - 16', (88) - 18' 6 3/4" x 6 7/8" 13'-0" 2" 24F-V5 12 COLUMN NONE 1, 2 96 3/4" Φ x 6 1/2" BOLT W/ NUT В C-1 34 LBS. OF 16d GALV. COMMON NAILS **FASCIA** 2 x 6 NOM. │ 10'−0" UNT'D. ---- | #I S.Y.P. NONE \_\_\_\_ 3 FASCIA 2 x 6 NOM. 8'-0" UNT'D. #I 5.Y.P 72 4" A.R. NAILS 10 F-2 NONE \_\_\_\_ $\boldsymbol{C}$ ROOFING |1 1/2" x 3 1/2" | 8'-0" UNT'D. ---- | #I S.Y.P. 3, 4 12 NAILER NONE ----10 ROLLS OF 30# FELT #I S.Y.P. NAILER N-2 |1 1/2" x 3 1/2" | 10'-0" UNT'D. NONE 8 17 SQ'S OF CLASS A FIRE-RATED 3-TAB FIBERGLASS SHINGLES (AUTUMN BROWN) STEEL NOTES SHOP NOTES: 22 LBS. OF I" GALV. ROOFING NAILS A) TO HAVE SHOP COAT PRIMER. B) TO BE ELECTROSTATIC ZINC PLATED #I - FABRICATE WITH 0.6 PCF CCA PRESSURE TREATED LUMBER PER AITC 109, GROUND CONTACT. FASCIA C) TO BE HOT-DIP GALVANIZED. #2 - FINISH FOUR SIDES. #I 2x6, 2x4 S.Y.P. PRESSURE TREATED (SEE WOOD MAT'L. LIST) 6 3/4" 6 7/8" 5 LBS. OF 16d GALV. COMMON NAILS 7/8" 5" 7/8" #3 - PRESSURE TREATED PER AITC 109, ABOYE GROUND USE. (UNT'D DENOTES UNTRIMMED. FIELD CUT TO FIT.) 2 LBS. OF 8d GALV. COMMON NAILS #4 - FAB. WITH 3/4" EAVE CUT (SEE FASCIA DETAIL, THIS SHEET.) Ø 1 ATTACH EACH DECK BOARD TO DRILL IN EACH SUPPORT WITH (I) 16d TOE-FIELD END VIEW 2" DECK NAIL THRU THE TONGUE AND (I) 16d FACE NAIL ATTACH N-2 2x4 NAILER W 8d 6 NAILS INTO DECK AT 12" O.C. FOR LENGTH OF BUILDING ATTACH N-I 2x4 NAILER W 8d FINISH NAILS INTO DECK AT 12" O.C. 2" DECK FOUR SIDES FOR LENGTH OF BUILDING. ATTACH 2x6 FASCIA W (1) 16d FACE NAIL TO DECK AND (1) 16d 2x6 FASCIA - (2) 16d FACE FACE NAIL TO NAILER NAILS PER FASCIA AT EACH STAGGERED AT 12" BEAM; 16d FACE NAILS TO SYM. ABT. O.C. FOR LENGTH OF 3/41/ NAILER AT 12" O.C. BUILDING FASCIA DETAIL @ RAKES METAL DRIP EDGE BY G.C. FASCIA DETAIL ( SCALE: 3/4" = 1'-0" ) (NOT BY ENWOOD) SCALE: 3/4" = 1'-0" 2'-2 9/16" 6 7/8" DRILL FOR FINISH-BEAM B-30SP FLAT 3/4" \$\phi BOLTS 5" WIDE F-I F-2 F-2 15'-0" SCALE: 1/4" = 1'-0" - N-2 N-2 N-2 N-2--ERECTION NOTES: B-305P 30'-0" I. ALL MEMBERS MUST BE PROPERLY BRACED UNTIL THE TYP. ALTERNATING STRUCTURAL ROOF SYSTEM HAS 25'-0" C / C COL'S. DECK LAYOUT BEEN COMPLETED. B-305P 2. NAIL (6) 4" A.R. NAILS 2" 3 7/16" 3 7/16" BEAM DRILLNG MINIMUM INTO EMBEDDED ENDS 6 3/4" WIDE x 6 7/8" LAM. DIMENSIONS COLUMN OF COLUMNS, TYPICAL. COLUMN C-I B-305P **NOT APPLICABLE** B-305P ALLOWABLE VERTICAL SOIL (SEE DRAWING 7-BEARING PRESSURE IS ASSUMED 13/16"Φ HOLES-PAVILLION TO BE 1500 PSF, WITH AN SLAB (NOT BY ENWOOD)\_ 77 ALLOWABLE LATERAL BEARING FANDATION PLAN) C-1 $\oplus$ PRESSURE OF 125 PSF/FT. TYP. B-305P S-I BEAM TO COLUMN $\Theta + \Theta$ NOTCH TOP OF TYP. COLUMN TO 5" SPLICE WIDTH TO MATCH 9 $\oplus$ TYP. B-305P BEAM WIDTH 6x6-W2.9xW2.9 WWF ABOVE. FORMED INTO 24" SEE COL. DETAIL. 4" A.R. NAILS . DIAMETER CAGE 1 1/4" | 2 1/2" | 1 1/4" AROUND COLUMN. (NOT BY ENWOOD) ERECTOR NOTE: B-305P FIELD DRILL COLUMN 30" O.D. CONCRETE . **KYZER** ENCASEMENT FOR ACCURACY. 6 7/8" N-2 N-2 / 21 (MOT BY ENWOOD) SONCRETE F'C=3,000 PSI F-2 F-2 *25'-0"* √ 3" CLR CONN S-I (11/2" SCALE) CENTER TO CENTER OF COLUMNS Engineered and drawn by: MK-1 (PL 3/8" x 5" x 1'-4") *30'-0"* COLUMN 3/4" $\phi \times 6$ 1/2" M. BOLT W/ NUT FRAMING PLAN EMBEDMENT DETAIL SCALE: 1/8" = 1'-0" APPROVAL DRAWING (NOT BY ENWOOD) SCALE: 1/2" = 1'-0" structural engineers "IN THE EVENT OF ERROR, DEFECTIVE MATERIAL, AND/OR NOT FOR CONSTRUCTION 120 SAINT MARY'S ST. RALEIGH, NC 27605 WORKMANSHIP, PLEASE NOTIFY THE NEAREST ENWOOD SALES 919.833.0495 LYSAGHTASSOCIATES.COM OFFICE IMMEDIATELY. ENWOOD RESERVES THE RIGHT TO WEIGHT OF HEAVIEST MEMBER IS 700 LBS. (B-30SP) INVESTIGATE AND CORRECT ALL ALLEGED ERRORS AND DEFECTS" SEE ATTACHED BUILDING CODE STRUCTURAL SHEET FOR ADDITIONAL INFO COPYRIGHT (C) ENWOOD STRUCTURES - RALEIGH, NC -- ALL RIGHTS RESERVED AND ENFORCED. A.I.T.C. CERTIFICATE & STAMPS CUSTOM 30' x 44' RALEIGH MODEL (6/12 ROOF SLOPE) LA-14988A Our Job No. Clearance Data - Material Sheet Design Data ARCOLA CREEK PARK Material: Stress Graded, Kiln Dried **ENW**00D 25-PS-5113-A Southern Yellow Pine Lumber RDL = 12 PSF 941 DOCK RD, MADISON OH 44057 (OBC 2024, Height Length Width 2-15-25 Comb. & Stress Grades Approved for RLL = 30 PSF STRUCTURES Per A.I.T.C. A190.1 Fabrication Checked Architect 65L = 30 PSF PMK Adhesive: Waterproof WL: V = 110 MPH / ASCE 7-16 (EXP. D, OPEN BLDG., RISK CATEGORY = 11 ONE per AITC A190.1 Revisions 2-21-25 Contractor

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