



To: All Plan Holders of Record

From: CT Consultants, Inc.
For the Owner

Re: *Addendum No. 1*
South Interceptor Equalization Improvements
City of North Olmsted, Ohio

Date: October 11, 2024

This Addendum forms a part of the contract documents and modifies the original bidding documents dated October 2024 and all previous addenda, if any. Acknowledge receipt of this addendum in the space provided in the bid forms. Failure to do so may subject the bidder to disqualification.

ADVERTISEMENT FOR BIDS

The title in the Advertisement for Bids as published in the Plain Dealer shall be changed to SOUTH INTERCEPTOR EQUALIZATION FACILITY IMPROVEMENTS to match that of the Bid Book and Plans.

PLANS

Sheet 28 of 53 – **REMOVE** this Sheet from the Drawing Set and **REPLACE** it with Sheet 28 of 53 included with this Addendum, which shall be considered part of this Drawing Set.

Sheet 29 of 53 – **DELETE** this Sheet from the Drawing Set. This sheet will not be considered part of this Drawing Set.

Sheet 30 of 53 – **REMOVE** this Sheet from the Drawing Set and **REPLACE** it with Sheet 30 of 53 included with this Addendum, which shall be considered part of this Drawing Set.

Sheet 31 of 53 – **REMOVE** this Sheet from the Drawing Set and **REPLACE** it with Sheet 31 of 53 included with this Addendum, which shall be considered part of this Drawing Set.

EF:mep

Enclosures

H:\2021\210888\SPEC - NEW BID - Oct '24\Addenda\Addendum 01\Addendum 01.Doc

ADVERTISEMENT FOR BIDS/PUBLIC NOTICE TO BIDDERS

Sealed bids will be received at City Hall, City of North Olmsted, 5200 Dover Center Road, North Olmsted, Ohio 44070 until 2:00 p.m. on October 31, 2024 and will be opened and read immediately thereafter for the

SOUTH INTERCEPTOR EQUALIZATION FACILITY IMPROVEMENTS

WPCLF FUNDED PROJECT

OPINION OF PROBABLE CONSTRUCTION COST: \$8,000,000.00

COMPLETION DATE: 24 MONTHS FROM NOTICE TO PROCEED

The bid specifications, drawings, plan holders list, addenda, and other bid information (**but not the bid forms**) may be viewed and/or downloaded for free via the internet at <https://bids.ctconsultants.com> . The bidder shall be responsible to check for Addenda and obtain same from the web site.

Bids must be in accordance with drawings and specifications and on forms available from CT Consultants, Inc. at a non-refundable cost of Two Hundred Dollars (\$200.00) for hard copies and \$45.00 for electronic files. Documents may be ordered by registering and paying online at <https://bids.ctconsultants.com> . Please contact planroom@ctconsultants.com or call (440) 530-2351 if you encounter any problems viewing, registering or paying for the documents.

There will be a Pre-bid Conference on October 17, 2024 at 10:00 a.m. at City Hall, City of North Olmsted, 5200 Dover Center Road, North Olmsted, Ohio 44070.

This project will be funded by the Water Pollution Control Loan Fund Program as administered by the Ohio Environmental Protection Agency and the Ohio Water Development Authority. The Contractor shall note that there are Disadvantaged Business Enterprise participation goals for this project.

This procurement is subject to the EPA policy on encouraging the participation of small business in rural areas (SBRAs).

Publish: *The Plain Dealer*
October 9, 2024
October 16, 2024

GENERAL NOTES

1. CONCRETE: 5000 PSI @ 28 DAYS
2. AIR: 6% +/- 2%
3. REINFORCING: ASTM A615 GRADE 60
4. WALLS PRECAST CONCRETE
5. ROOF PRECAST CONCRETE
6. FLOOR PRECAST CONCRETE
7. CONCRETE MIX DESIGN AND PLACEMENT PER ACI-318-14
8. MINIMUM REQUIRED FIRE SEPARATION IS 10'-0"
9. BUILDING SHALL NOT BE PLACED WITHIN 60'-0" OF AN UNLIMITED AREA STRUCTURE
10. BUILDING IS A STAND ALONE STRUCTURE
11. EXTERIOR EGRESS COMPONENTS ARE TO BE SITE INSTALLED.
12. COMCHECK FORM OR EQUIVALENT TO BE PROVIDED AS PART OF THE IU DRAWINGS.
13. PROJECT INVOLVE A DEFERRED IU SUBMITTAL.
14. SUBMIT IU DRAWINGS AFTER APPROVAL OF OHIO BOARD OF BUILDING STANDARDS.

OBC SECTION 108.2.13 INDUSTRIALIZED UNIT (I.U.) INSPECTIONS AT THE OHIO SITE OF INSTALLATION

APPROVED I.U.'S & THE ON-SITE CONSTRUCTION TO COMPLETE THE INSTALLATION OF THE I.U.'S & ARE TO BE INSPECTED. THEIR INSPECTIONS OF FACTORY COMPLETED WORK ARE LIMITED TO:

1. CONNECTION TO ONSITE CONSTRUCTION, INTERCONNECTION OF MODULES, CONNECTION TO UTILITIES. THE INSPECTIONS AND CONDUCTING OF REQUIRED TESTS MUST NOT REQUIRE THE DESTRUCTION OR DISASSEMBLY OF ANY FACTORY CONSTRUCTED COMPONENT APPROVED BY THE OHIO BBS
2. INSPECTION OF THE UNITS FOR DAMAGE RESULTING FROM TRANSPORTATION, IMPROPER PROTECTION OF EXPOSED PARTS FROM INCLEMENT WEATHER OR OTHER CAUSES. DAMAGE MUST BE REPAIRED TO COMPLY WITH THE OHIO BBS APPROVED CONSTRUCTION DOCUMENTS.
3. INSPECTION OF EACH UNIT TO DETERMINE IF EACH IS MARKED BY AN ISIGNIA FURNISHED BY THE OHIO BBS.
4. INSPECT EACH UNIT TO DETERMINE IF THE FLOOR PLAN, EXTERIOR ELEVATIONS, & EXPOSED DETAILS IN GENERAL LOOK LIKE THE OHIO BBS APPROVED DOCUMENTS.

OBC SECTION 108.2

SITE INSTALLED WORK FOR U.I.'S IS WITHIN SCOPE OF AUTHORITY OF THE LOCAL A.H.J.

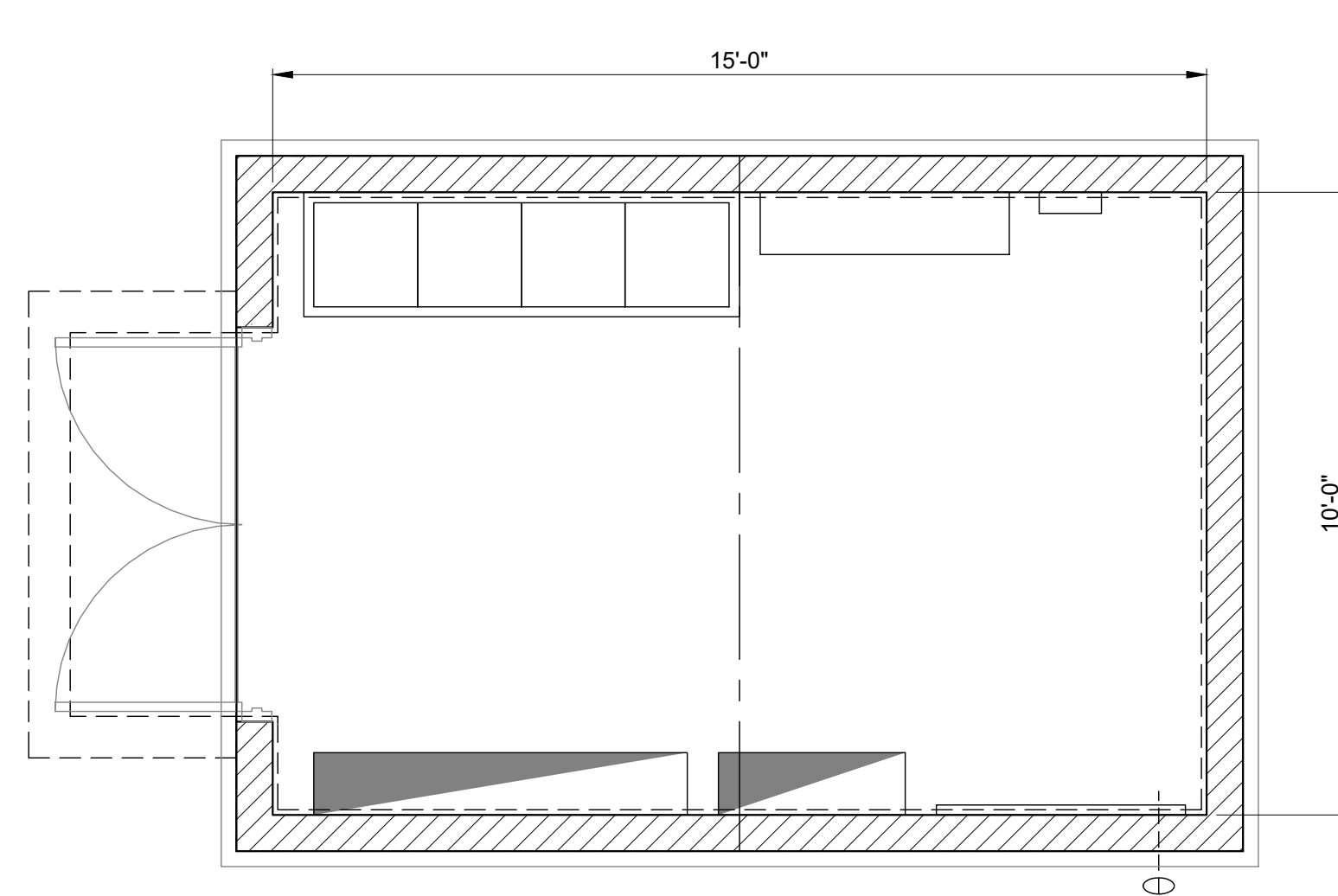
108.6.4 I.U.'S OBSERVATIONS OF NONCOMPLIANCE AT THE OHIO SITE OF INSTALLATION

WHEN AN INSPECTOR FROM THE LOCAL A.H.J. FINDS THAT AN I.U. HAS BEEN CONSTRUCTED CONTRARY TO THE PLANS APPROVED BY THE OHIO BBS THE INSPECTOR SHALL REPORT THE NONCONFORMANCE TO THE LOCAL BUILDING OFFICIAL. THE LOCAL BUILDING OFFICIAL MUST NOTIFY THE OHIO BBS OF ALL VIOLATIONS. THE OHIO BBS OR ITS DESIGNEE & THE LOCAL BUILDING OFFICIAL MUST DETERMINE THE CORRECTIVE ACTION TO BE TAKEN BEFORE THE BUILDING IS APPROVED TO BE OCCUPIED.

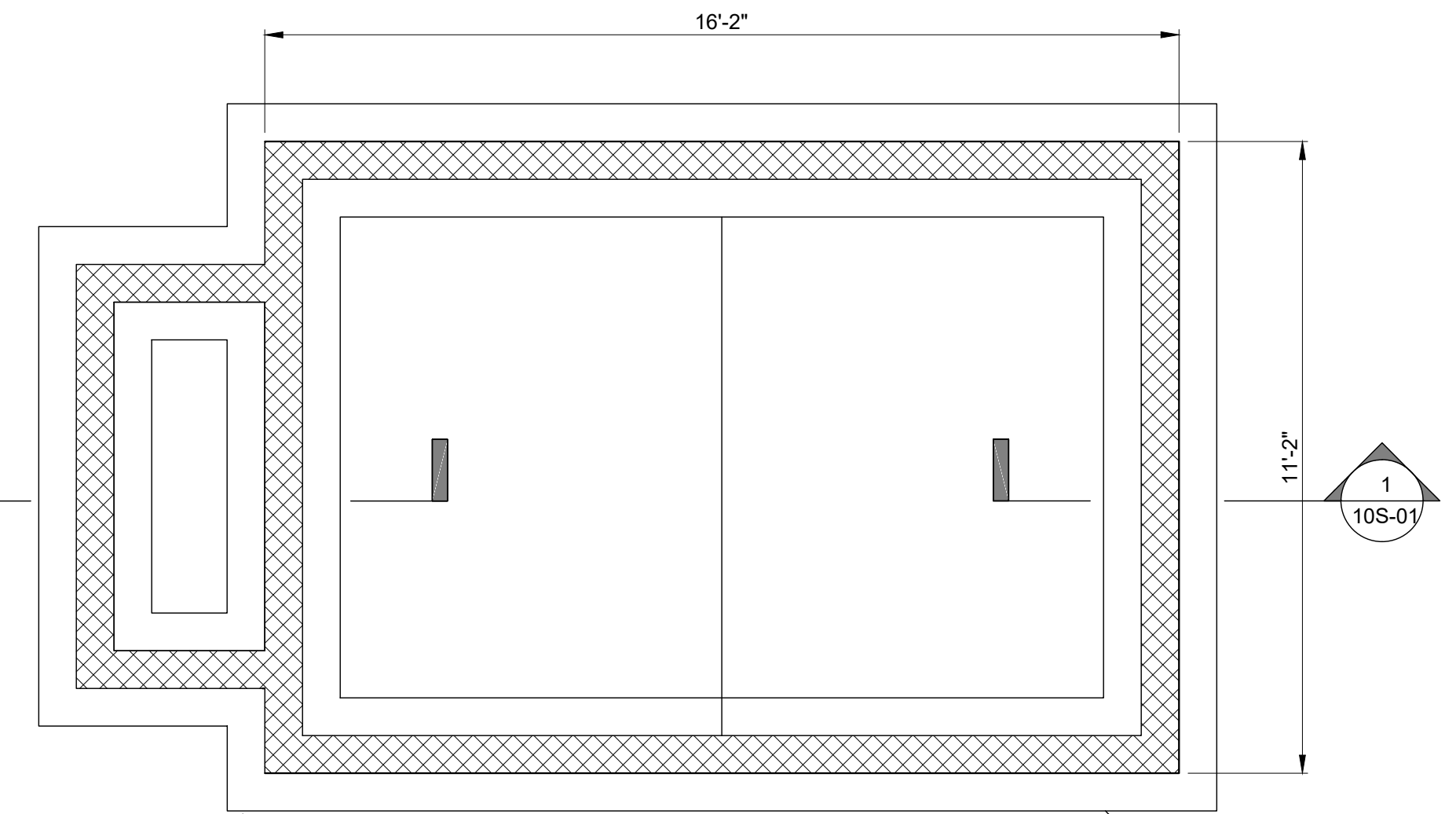
OBC SECTION 113.5

I.U.'S APPROVED BY THE OHIO BBS MAY BE USED ANYWHERE IN OHIO SUBJECT TO THE CONDITIONS OF THEIR APPROVAL. THEY ARE NOT TO BE SUBJECTED TO REVIEW AND FURTHER INSPECTIONS. PERSONNEL WITH THE LOCAL A.H.J. ARE NOT TO REPORT NON-COMPLIANCE TO THE OWNERS AGENTS UNTIL INSTRUCTED TO DO SO BY THE OHIO BBS.

2024 OHIO BUILDING CODE			
CODE COMPLIANCE			
X	NEW CONSTRUCTION	--	ADDITION
CONSTRUCTION TYPE	1B	RISK CATEGORY	II
OCCUPANT LOAD	2	--	--
USE GROUP	U	DESCRIPTION	UTILITY BUILDING
--	MECHANICAL: 2024 OMC	ELECTRIC: NEC 2023	ENERGY: IEC 2021
BUILDING HEIGHT	10'-4"	BUILDING AREA	192 SQ. FT.
REMARKS	OCCUPANT LOAD: 1/150 SF/PERSON = 2 OCCUPANTS		
ACCESSIBILITY COMPLIANCE	ICC / ANS1 A117.1-2017		

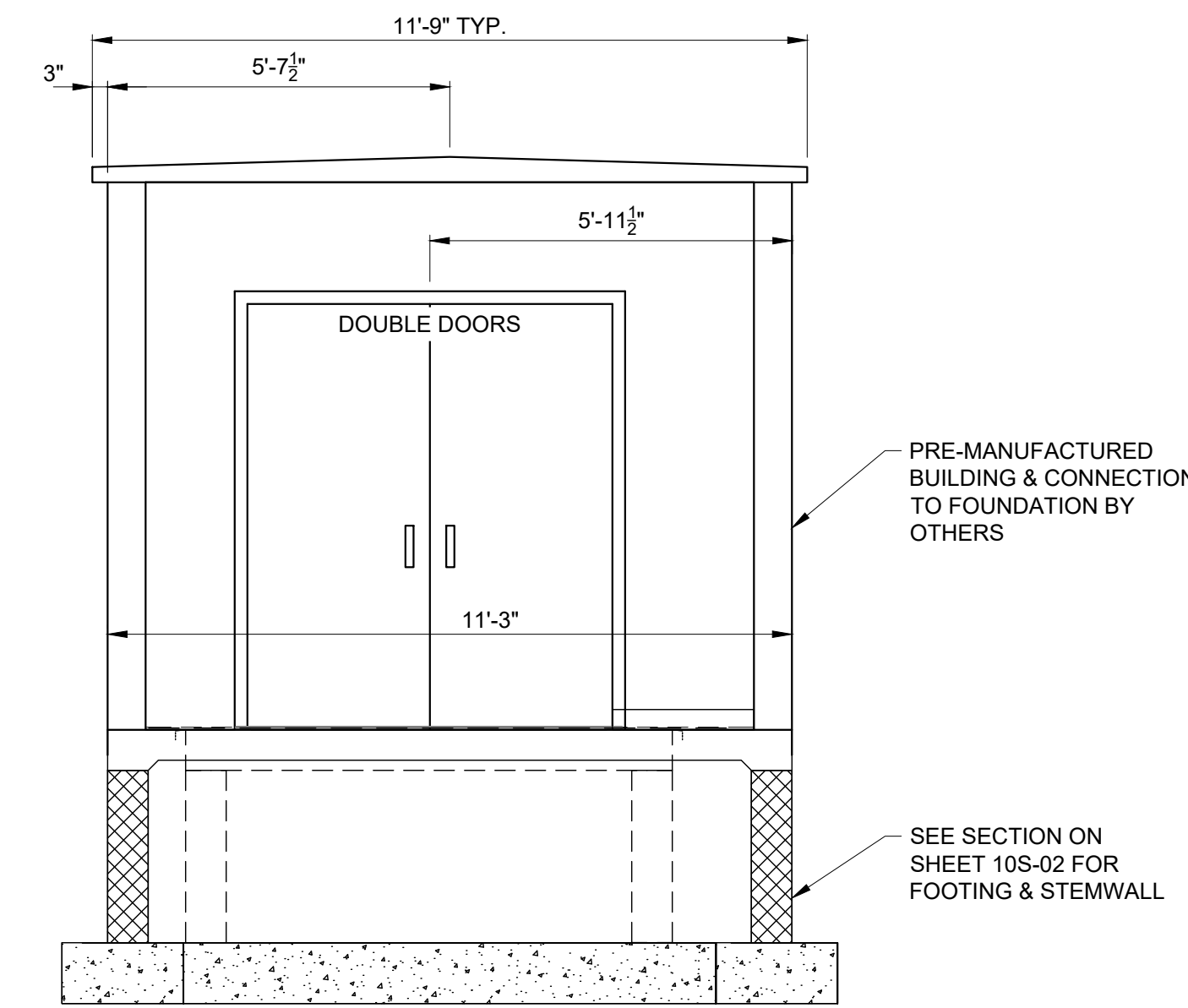


PLAN
F.F. EL. 777.32 SCALE: 3/8" = 1'-0"

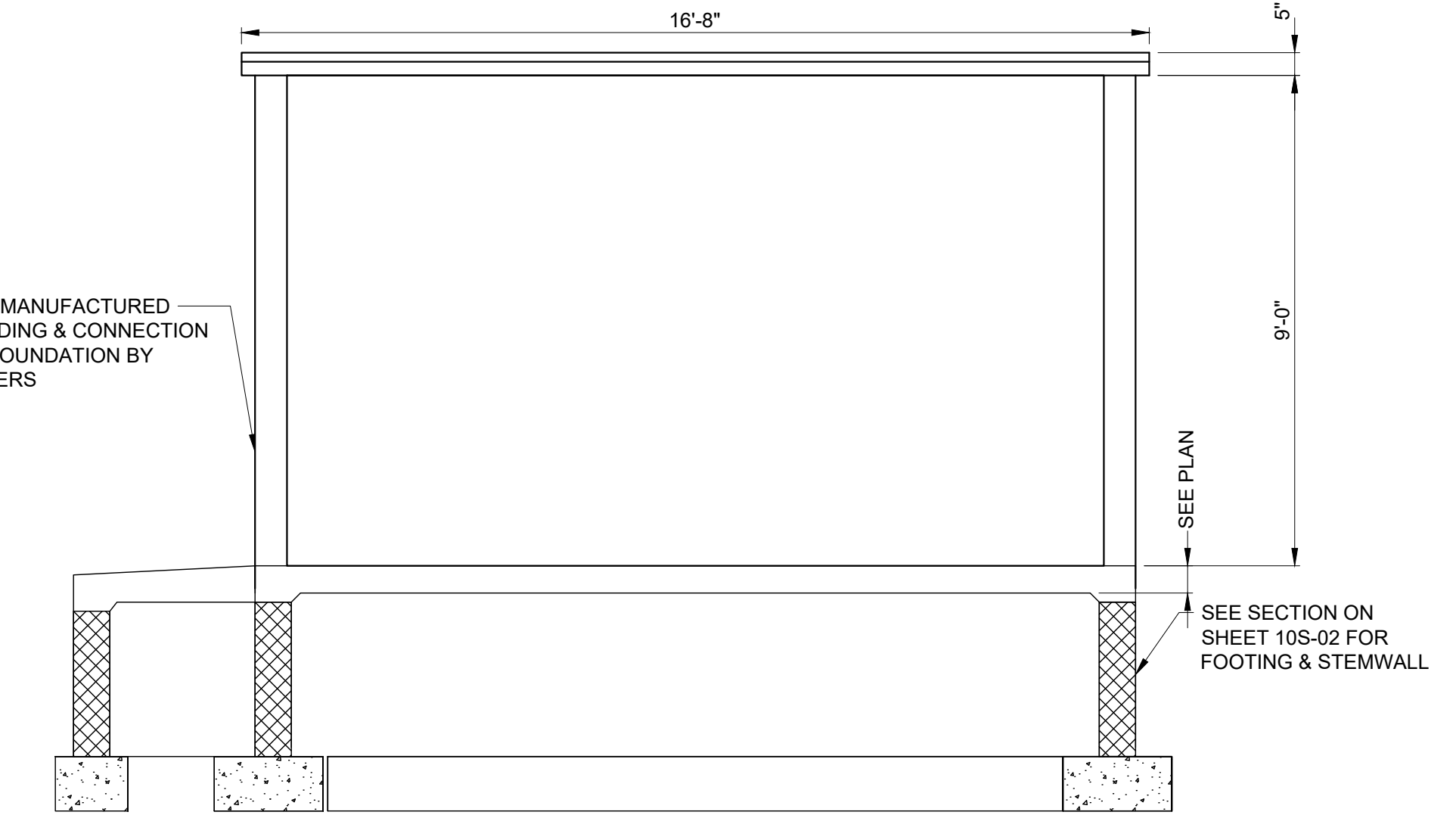


FOUNDATION PLAN
SCALE: 3/8" = 1'-0"

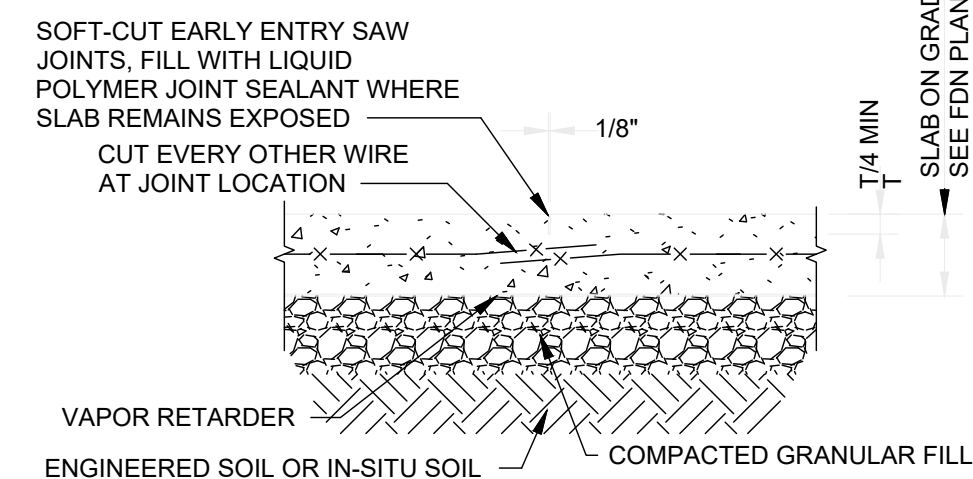
- NOTES:**
1. FOOTINGS DENOTED X'-X" x X'-X" @ (-X'-X") DENOTES WALL FOOTING SIZE AND DEPTH. DEPTH OF FOOTING IS TO THE TOP OF THE FOOTING REFERENCE FROM THE TOP OF THE SLAB ELEVATION 0'-0".
 2. FLOOR CONSTRUCTION: 6" CONCRETE SLAB ON GRADE WITH #4 BARS @ 12" O.C. E.W. WITH 6" GRANULAR BASE WITH 15 MIL VAPOR RETARDER BELOW SLAB.



FRONT ELEVATION
SCALE: 3/8" = 1'-0"

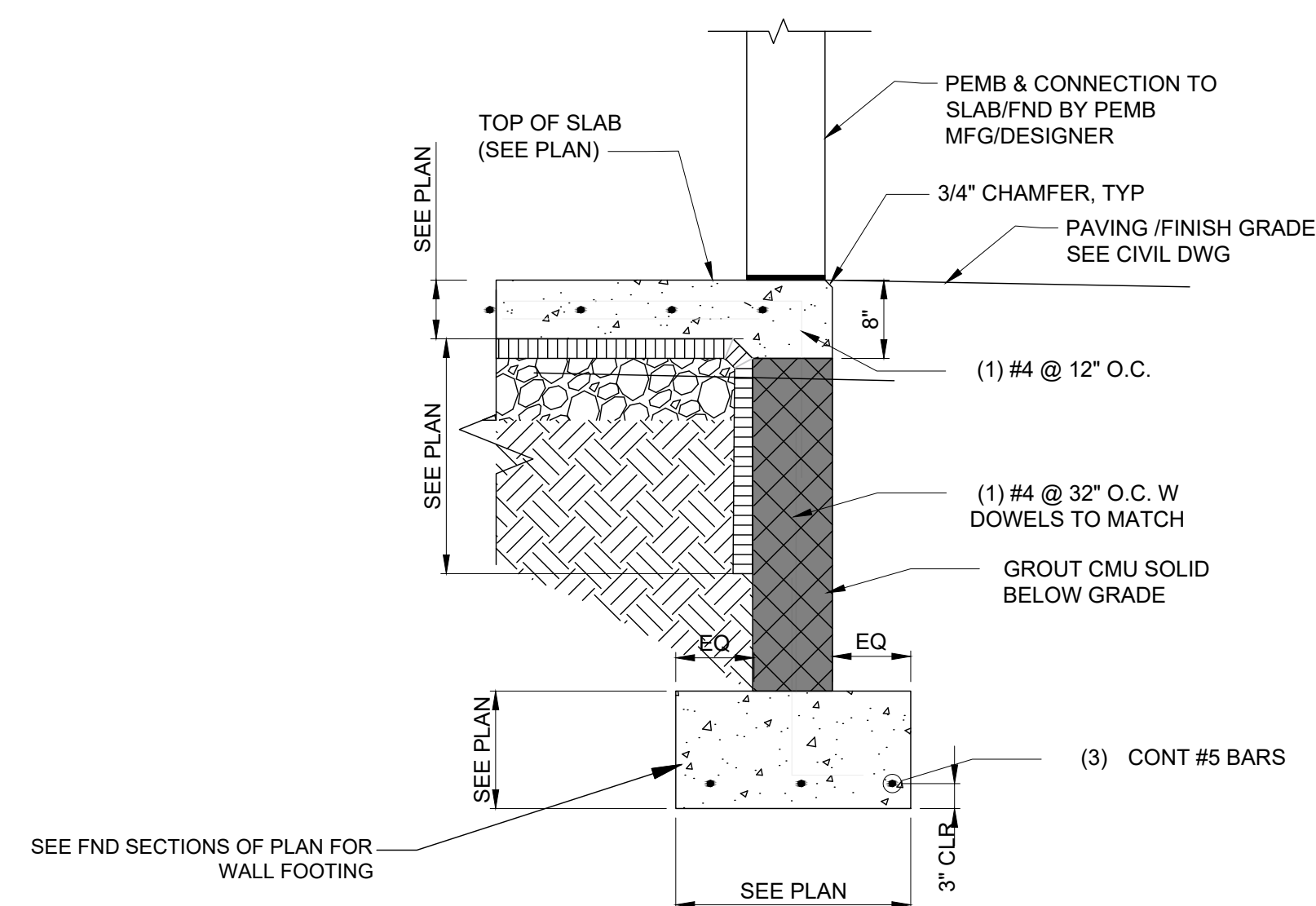


SIDE ELEVATION
SCALE: 3/8" = 1'-0"

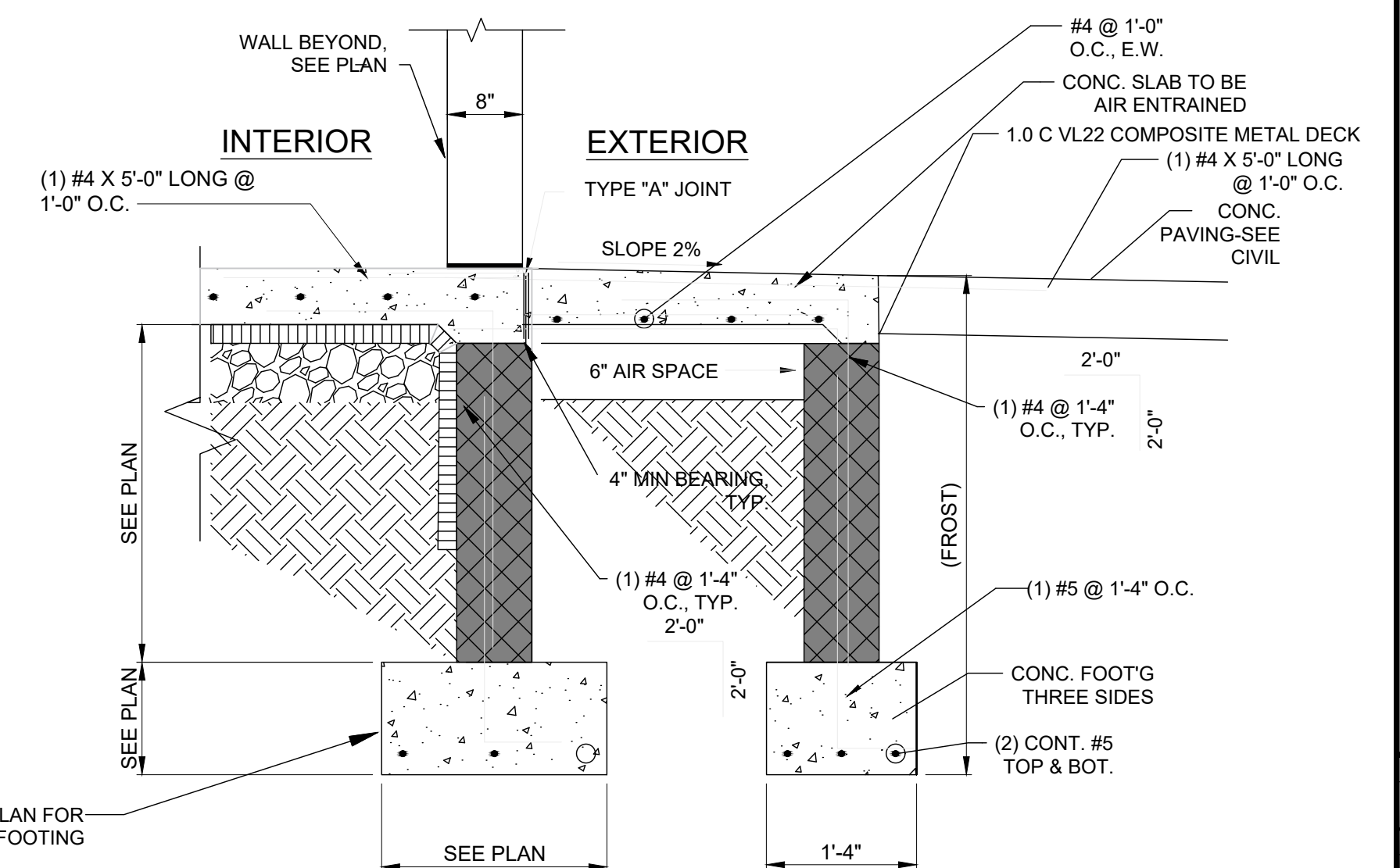


- NOTES:**
1. JOINTS TO BE LOCATED ON COLUMN CENTER LINES AND AT INTERMEDIATE LOCATIONS AS REQUIRED TO MAINTAIN A MAXIMUM SPACING OF (30 x SLAB THICKNESS) L/12 IN EACH DIRECTION, UNO.
 2. PROVIDE TOOLED JOINTS IN FRESH CONCRETE EACH SIDE OF WALLS WHERE SLAB POURS THRU DOORWAYS.

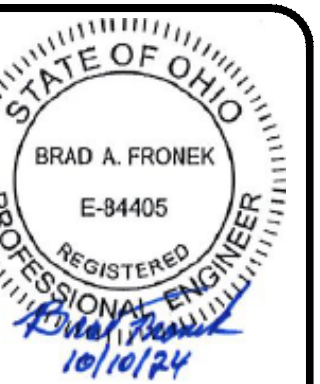
CONTROL JOINT DETAIL
N.T.S.



SECTION 1
N.T.S.



SECTION 2
N.T.S.



DATE	REVISION	NO	BID	ISSUED FOR
10/11/24		1	AS NO	
			DESIGNED BY:	
			DRAWN BY:	
			CHECKED BY:	

CITY OF NORTH OLDMSTED
SOUTH INTERCEPTOR
EQUALIZATION FACILITY
CUYAHOGA COUNTY
NORTH OLDMSTED, OHIO
PUMP STATION - 10 SERIES
ELECTRICAL BLDG PLAN & SECTIONS

PROJECT NO.	210888
DISCIPLINE	STRUCTURAL
SHEET NAME	10S-01
SHEET	28
OF	53

GENERAL

- 1. THESE NOTES ARE GENERAL REQUIREMENTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREINAFTER FOR USE ON THIS PROJECT.
3. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER FOR CLARIFICATION.
4. TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON THE PLANS, BUT APPLY UNLESS NOTED OTHERWISE.
5. SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER/ARCHITECT.
6. SHOP DRAWINGS PREPARED BY THE CONTRACTORS, SUPPLIERS, ETC., WILL BE REVIEWED BY THE ENGINEER/ARCHITECT ONLY FOR CONFORMANCE WITH DESIGN CONCEPT. NO WORK AFFECTED BY THE SHOP DRAWINGS SHALL BE STARTED WITHOUT SUCH REVIEW.
7. THE GENERAL CONTRACTOR SHALL COORDINATE ALL REVISIONS, CORRECTIONS, AND COMMENTS INDICATED ON THE SHOP DRAWINGS BY THE ARCHITECT/ENGINEER.
8. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL CONFORM TO THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.
9. THE STRUCTURAL CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
10. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER ARE SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
11. ALL STRUCTURES ARE DESIGNED TO BE STABLE AND SELF-SUPPORTING AT THE COMPLETION OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE STABILITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL IS NOT INDICATED ON THE DRAWINGS AND, IF PROVIDED, SHALL BE REMOVED, AS CONDITIONS PERMIT AND REMAIN THE PROPERTY OF THE CONTRACTOR.
12. ALL MATERIALS AND EQUIPMENT FURNISHED WILL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
14. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR MISCELLANEOUS STEEL ITEMS, LINTELS, METAL PAN STAIRS, SIZE AND LOCATION OF FLOOR SLOPES, DEPRESSED AREAS, FINISH FILLS, CHAMFERS, GROOVES, RAILING SLEEVES, ROOF EDGES, INSERTS, ETC.
15. COORDINATE WITH CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR PIPE SLEEVES, FLOOR DRAINS, ROOF DRAINS, INSERTS, HANGERS, TRENCHES, PITS, WALL AND SLAB OPENINGS, CONDUIT RUNS IN WALLS AND SLABS, SIZE AND LOCATION OF MACHINE OR EQUIPMENT SUPPORTS, BASE AND ANCHOR BOLTS, RAILING, ETC.
16. COORDINATE WITH SITE, ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND CIVIL DRAWINGS FOR RETAINING WALLS, PADS, PAVEMENT AND OTHER SITE STRUCTURES.
17. EARTHWORK, FOUNDATION DRAINS, WATERPROOFING, PERIMETER INSULATION, MASONRY AND OTHER REQUIRED NON-STRUCTURAL ITEMS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE WITH CIVIL/SITE AND ARCHITECTURAL DRAWINGS.

GOVERNING CODES AND STANDARDS:

Table with 2 columns: Code and Description. Includes OBC, ASCE 7, ACI 318, ACI 301, ACI 305R, ACI 306R, ACI SP-66, ACI 530, ACI 530.1, ADM1.

DESIGN LOADS:

Table with 3 columns: Description, Uniform (PSF), Concentrated (LBS). Includes live loads, snow loads, wind loads, and earthquake design data.

FOUNDATIONS:

- 1. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT NO. 0142-2390, PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC., DATED OCTOBER 14, 2021. CONTRACTOR SHALL REVIEW GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION.
2. FOUNDATIONS ARE DESIGNED TO BEAR ON UNDISTURBED NATURAL SOILS OR PROPERLY COMPACTED ENGINEERED FILL WITH A ALLOWABLE BEARING CAPACITY OF 2000 PSF. (SEE GEOTECHNICAL REPORT)

- 3. TOPSOIL, FILL, AND/OR OTHER DELETERIOUS MATERIALS ENCOUNTERED DURING THE SITE PREPARATION MUST BE REMOVED AND REPLACED WITH SELECT ENGINEERED FILL COMPACTED TO 98% PER D-698 AND MEETING THE SPECIFIED DESIGN BEARING CAPACITY. (SEE GEOTECH REPORT FOR MORE INFORMATION).
4. OWNER SHALL EMPLOY A SOILS TESTING LABORATORY APPROVED BY THE ENGINEER TO PERFORM TESTING SERVICES AS REQUIRED BY THE SPECIFICATIONS AND TO INSPECT ALL BEARING SURFACES OF SLABS AND FOUNDATIONS.
5. NOTIFY ENGINEER IF FOUNDATION CONDITIONS ENCOUNTERED DIFFER FROM SOILS EXPLORATION INFORMATION MADE AVAILABLE TO THE CONTRACTOR.
6. REMOVE ALL EXISTING PAVEMENT, STRUCTURES AND FOUNDATIONS, AND TOPSOIL, UNSUITABLE FILLS AND ORGANIC SOILS ENCOUNTERED WITHIN AND BELOW THE AREA TO BE OCCUPIED BY SLABS ON GRADE AND FOUNDATIONS. THESE MATERIALS SHALL NOT BE USED FOR FILL WITHIN OR ADJACENT TO THE BUILDING.
7. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE TEMPORARY SHORING, BRACING, UNDERPINNING, AND OTHER MEASURES NECESSARY TO INSURE STABILITY AND SAFETY DURING ERECTION AND CONSTRUCTION AND TO PREVENT MOVEMENT OF SOIL THAT COULD DAMAGE EXISTING STRUCTURES, PAVEMENT, UTILITIES, ETC.
8. AFTER EXCAVATING FOR SLABS ON GRADE, THE EXPOSED NATURAL SOIL SHALL BE THOROUGHLY COMPACTED PRIOR TO PLACING THE GRANULAR MATERIAL.
9. CENTER FOOTINGS UNDER COLUMNS AND WALLS UNLESS NOTED.
10. THE DIFFERENCE IN ELEVATION OF THE BACKFILL ON THE INSIDE AND OUTSIDE OF WALLS SHALL NOT EXCEED TWO FEET UNTIL THE FIRST FLOOR STRUCTURE SUPPORTING THE WALLS IS IN PLACE, UNLESS THE WALL IS BRACED TO PREVENT MOVEMENT.
11. UNLESS NOTED OTHERWISE ON THE CIVIL/SITE DRAWINGS, PROVIDE A MINIMUM 2% GRADE WITHIN 10-FEET OF THE PERIMETER OF THE FOUNDATION SYSTEM TO ALLOW SURFACE WATER TO DRAIN AWAY.
12. DO NOT PLACE FILL OR CONCRETE ON FROZEN GROUND.

CAST-IN-PLACE CONCRETE AND REINFORCEMENT:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318.
2. CONCRETE SHALL HAVE THE FOLLOWING 28-DAY COMPRESSIVE STRENGTHS: CAST-IN-PLACE CONCRETE: 4,500 PSI; FILL CONCRETE: 1,500 PSI
3. USE 6% ±1.5%, ENTRAINED AIR PER ASTM C260 FOR ALL CONCRETE EXPOSED TO WEATHER.
4. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60. ALL REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A706.
5. ADMIXTURES SHALL CONTAIN NO MORE THAN 0.05% CHLORIDE IONS BY WEIGHT OF CEMENT WHEN TESTED IN ACCORDANCE WITH AASHTO T260.
6. CONTRACTOR SHALL KEEP A COPY OF "FIELD REFERENCE MANUAL: STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE ACI 301 WITH SELECTED ACI REFERENCES", (ACI PUBLICATION SP-15) AT THE PROJECT FIELD OFFICE.
7. ALL REINFORCING DETAILS SHALL CONFORM TO "ACI DETAILING MANUAL, SP-86, 2004, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
8. SUBMIT FOR APPROVAL CONCRETE MIX DESIGN AND CERTIFICATION OF CONCRETE MATERIALS CONFORMING TO THE FOLLOWING EXPOSURE CATEGORIES:
SLAB-ON-GRADE, FOOTINGS, TOPPING SLAB
CATEGORY CLASS
FREEZE AND THAWING F0
SULFATE S1
IN CONTACT WITH WATER W0
CORROSION PROTECTION C1
9. THE CONTRACTOR SHALL EMPLOY A TESTING LABORATORY APPROVED BY THE ENGINEER/ARCHITECT TO PERFORM THE TESTING SPECIFIED PER PARAGRAPH 1.6.4 OF ACI 301. THE TESTING LABORATORY SHALL MEET THE REQUIREMENTS OF ASTM E529. TESTING SHALL BE MADE BY AN ACI CONCRETE FIELD TESTING TECHNICIAN GRADE 1 OR APPROVED EQUIVALENT. A TECHNICIAN GRADE 1 SHALL BE PRESENT DURING ALL CONCRETE PLACEMENT.
10. SUBMIT SHOP DRAWINGS FOR REVIEW. THESE DRAWINGS SHALL SHOW ALL CONCRETE MEMBER DIMENSIONS AND DOWELS FOR MASONRY WALLS.
11. PROVIDE DOWELS FROM FOUNDATIONS TO MATCH COLUMN, PIER AND WALL VERTICAL REINFORCING. WHERE SHOWN, PROVIDE DOWELS OUT OF WALLS TO MATCH SLAB REINFORCING.
12. PROVIDE CLASS "B" TENSION LAP SPLICE OR FULL MECHANICAL SPLICE (ACI 318, SECT. 12.14.3) FOR ALL VERTICAL STEEL IN WALLS, COLUMNS, AND SLABS. SEE LAP SCHEDULE ON SHEET SD-S-03 FOR LAP LENGTHS, U.N.O.
13. PROVIDE ADEQUATE BOLSTERS, H-CHAIRS, SUPPORT BARS, ETC., TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS. SUPPORTS THAT BEAR DIRECTLY ON EXPOSED SURFACES SHALL BE STAINLESS STEEL.
14. ALL SLABS, SHALL BE POURED MONOLITHICALLY, EXCEPT FOR THE REQUIRED CONSTRUCTION JOINTS.
15. PROVIDE PERIMETER INSULATION AGAINST EXTERIOR FOUNDATION WALLS AND UNDER THE SLAB ADJACENT TO THE EXTERIOR OF THE BUILDING AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
16. PROVIDE 3/4 INCH CHAMFER ON ALL EXPOSED CORNERS OF SLABS, AND WALLS UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWINGS. MINIMUM CLEARANCES FOR REINFORCING STEEL SHALL BE MAINTAINED.
17. CURE ALL CONCRETE FOR A MINIMUM 7-DAYS, APPLY CURING COMPOUND AT THE MAXIMUM COVERAGE RATE OF 300 SQUARE FEET PER GALLON. USE PRODUCT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SEE SPECIFICATIONS.
18. ALL CONSTRUCTION JOINTS SHALL BE KEVED, PROVIDE KEYWAYS AT MEMBER CENTERLINE WITH A DEPTH OF 1-1/2 INCH AND HEIGHT EQUAL TO ONE-THIRD OF THE MEMBER'S DEPTH/THICKNESS.
19. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS FOR REVIEW BY THE ENGINEER/ARCHITECT.
20. ALL ALUMINUM IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL BE COATED WITH GRAY EPOXY PRIMER, APPROVED BY THE ENGINEER.
21. FORMWORK, FOR ALL CONCRETE THAT WILL BE EXPOSED IN THE COMPLETED STRUCTURE, SHALL BE CONSTRUCTED FROM A METAL OR SUITABLE SURFACE PLYWOOD THAT WILL PRODUCE AN ACCEPTABLY SMOOTH SURFACE. SEE SPECIFICATIONS.
22. PITCH CONCRETE SLABS TO FLOOR DRAINS SHOWN ON MECHANICAL, PROCESS, OR ARCHITECTURAL DRAWINGS.
23. ALL HORIZONTAL AND VERTICAL PIPE SLEEVE OPENINGS THROUGH BEAMS SHALL BE FORMED WITH STANDARD STEEL PIPE.
24. CONCRETE PROTECTION (CLEAR COVER) FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
a. FOOTINGS:
• 3 INCHES, BOTTOM AND UNFORMED EDGES
• 2 INCHES, FORMED EDGES
• 2 INCHES, EXPOSED TO EARTH, WATER OR WEATHER
• 2 INCHES, BOTTOM, ON CONCRETE MUDMAT
b. SLABS:
• 3/4 INCHES TO REINFORCEMENT
25. ALL HOOKS SHALL BE ACI STANDARD HOOKS UNLESS DIMENSIONED OTHERWISE.

CONCRETE MASONRY:

- 1. MASONRY IS SUPPORTED IN THE COMPLETED CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORTING THE MASONRY DURING CONSTRUCTION IN CONFORMANCE WITH LOCAL, STATE AND NATIONAL LAWS AND AS REQUIRED.
2. MASONRY CONSTRUCTION AND MATERIAL SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6) EXCEPT AS MODIFIED IN THE SPECIFICATIONS AND BELOW. A COPY OF ACI 530.1/ASCE 6 SHALL BE ON THE JOB SITE AT ALL TIMES THAT MASONRY WORK IS BEING PERFORMED.
3. SUBMIT FOR REVIEW, PRIOR TO CONSTRUCTION, SHOP DRAWINGS SHOWING A PLAN AND ELEVATION VIEW OF ALL CMU WALL, AND A PLAN THAT SHOWS ALL DOWELS REQUIRED FOR VERTICAL CMU REINFORCING THAT EXTEND OUT OF CONCRETE, SHOW WALL THICKNESS, AND DIMENSION WALL LENGTH AND LOCATION, SHOWING TOP ELEVATIONS OF WALLS, BOND BEAMS AND GROUT POURS, SHOW LOCATION OF CONTROL JOINT LOCATIONS, SOLID UNITS, CELLS TO BE GROUT FILLED, OPENING, LINTEL, JOINT REINFORCEMENT, REINFORCING BAR AND EMBEDMENT.
4. SUBMIT FOR REVIEW, PRIOR TO CONSTRUCTION, DOCUMENTATION FOR THE BLOCK, MORTAR, GROUT, ADMIXTURES, REINFORCING, BAR POSITIONER AND OTHER ACCESSORIES PROPOSED FOR USE. SUBMIT A WRITTEN DESCRIPTION OF THE METHOD OF REINFORCEMENT AND GROUT, AND OF GROUT CONSOLIDATION.
5. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, NORMAL WEIGHT.
6. CONCRETE MASONRY UNITS WHICH CONTAIN VERTICAL REINFORCEMENT SHALL BE TWO CORE UNITS AND WITH CORES AND WEBS VERTICALLY ALIGNED.
7. MORTAR FOR CONCRETE MASONRY UNITS SHALL BE NON-AIR ENTRAINED PORTLAND CEMENT-LIME CONFORMING TO ASTM C270, TYPE S. CEMENT IN MORTAR SHALL BE LOW-ALKALI AND NON-STAINING. TYPE N MORTAR AND MASONRY CEMENT SHALL NOT BE USED FOR CMU CONSTRUCTION.
8. ADMIXTURES SHALL NOT BE USED IN THE MORTAR OR GROUT. ANTIFREEZE AND CALCIUM CHLORIDE SHALL NOT BE USED.
9. MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE: NET AREA COMPRESSIVE STRENGTH OF ASTM C90 CMU, f_{cmu} = 2,000 PSI; NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY, f_m = 2,000 PSI
10. COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
11. ALL LOAD BEARING CONCRETE BLOCK WALLS SHALL BE REINFORCED VERTICALLY AS INDICATED ON PLAN, UNLESS NOTED OTHERWISE.
12. PROVIDE (1) VERTICAL BAR IN FIRST CORE AT EACH CORNER, END OF WALL, AND ADJACENT TO OPENINGS AND CONTROL JOINTS.
13. VERTICAL REINFORCEMENT SHALL EXTEND THROUGH BOND BEAMS AND TO WITHIN 2 INCHES OF THE TOP OF WALLS.
14. REINFORCING STEEL SPLICES SHALL BE LAPPED AS INDICATED IN MASONRY LAP SCHEDULE ON SHEET SD-S-03 BUT NO LESS THAN 12 INCHES, UNLESS NOTED OTHERWISE.
15. ANCHORAGE OF REINFORCING STEEL INTO CONCRETE SHALL BE AS INDICATED IN CONCRETE LAP SCHEDULE ON SHEET SD-S-03 BUT NO LESS THAN 12 INCHES, UNLESS NOTED OTHERWISE.
16. HORIZONTAL JOINT REINFORCING SHALL BE, UNLESS SHOWN OTHERWISE, STANDARD 9 GAGE, LADDER TYPE CONFORMING TO ASTM A951, SPACED VERTICALLY AT 8 INCH ON CENTERS ABOVE AND BELOW OPENINGS FOR THREE CONSECUTIVE COURSES AND AT 16 INCHES ON CENTERS ELSEWHERE. EXTEND REINFORCEMENT 2 FEET BEYOND EACH SIDE OF OPENINGS BUT DO NOT EXTEND THROUGH CONTROL JOINTS. PROVIDE FACTORY FABRICATED "T" AND "L" SHAPED PIECES AT INTERSECTIONS AND CORNERS.
17. JOINT REINFORCEMENT SHALL BE SPLICED BY LAPPING THE LONGITUDINAL WIRES AT LEAST 12 INCHES; THE CROSS-WIRES WITHIN THE LAP SHALL BE REMOVED SO THAT THE LONGITUDINAL WIRES ARE SIDE BY SIDE. ALTERNATELY WHERE JOINT REINFORCING IS NOT REQUIRED IN BETWEEN EACH COURSE, SPLICES MAY BE MADE BY BUTTING THE ADJACENT SECTIONS OF JOINT REINFORCING AND CENTERING A 48 INCH LENGTH OF JOINT REINFORCING IN THE BED JOINT IMMEDIATELY ABOVE OR BELOW THE BUTT JOINT. SPLICE WITH "T" AND "L" SHAPED PIECES AT INTERSECTIONS AND CORNERS.
18. MECHANICALLY VIBRATE GROUT IN VERTICAL SPACES IMMEDIATELY AFTER POURING AND AGAIN MINUTES LATER.
19. PROVIDE CLEANOUTS IF GROUT LIFT EXCEEDS 4'-0" IN BLOCK WALLS. MAXIMUM GROUT LIFT SHALL BE 8'-0".
20. SEE VENEER ANCHORAGE NOTES FOR ATTACHMENT OF VENEER TO BLOCK WALLS. WELD SHALL BE SUFFICIENT TO DEVELOP THE STRENGTH OF THE BAR.

POST-INSTALLED FASTENERS:

- 1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.
2. INSTALL BOLTS AND FASTENERS TO MISS REINFORCING.
3. PRIOR TO DRILLING FOR THE ANCHOR CONCRETE REINFORCING STEEL SHALL BE LOCATED WITH A MAGNETIC BAR LOCATOR.
4. FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND AS GIVEN BELOW. NOTIFY THE ENGINEER IF CONFLICTS EXIST BETWEEN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND THE BELOW REQUIREMENTS.
5. FASTENERS SHALL BE INSTALLED AT NOT LESS THAN THE MANUFACTURER'S MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE, UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER OF RECORD.
6. DRILL HOLES USING ROTARY PERCUSSION DRILL WITH A DEPTH GAGE. DO NOT DRILL THROUGH FULL THICKNESS OF CONCRETE. CLEAN HOLES BY VIGOROUSLY BRUSHING AND THEN BLOW OUT LOOSE MATERIAL USING OIL-FREE COMPRESSED AIR. THE BRUSH SHALL HAVE THE STIFF NON-METALLIC BRISTLES OF TYPE AND DIAMETER RECOMMENDED BY THE ADHESIVE MANUFACTURER. IF CONCRETE IS DAMP BLOW DRY HOLE WITH OIL-FREE COMPRESSED AIR. CLEAN WITH WATER ONLY IF RECOMMENDED BY MANUFACTURER. ADHESIVE ANCHORS MAY NOT BE SET IF WATER IS SEEPING INTO HOLE; NOTIFY THE ENGINEER.
7. FOR EXPANSION ANCHORS: DRILL HOLE TO NOMINAL DIAMETER OF ANCHOR. IF METRIC ANCHORS ARE USED, METRIC BITS MUST BE USED. INSTALL ANCHOR AND TIGHTEN TO RECOMMENDED TORQUE.
8. EXPANSION BOLTS IN CONCRETE SHALL BE "KWIK BOLT 3" BY HILTI, "WEDGE-ALL" BY SIMPSON STRONG TIE OR APPROVED EQUAL.
9. ADHESIVE DOWELS AND ANCHORS IN CONCRETE SHALL BE OF THE TYPE SHOWN AND INSTALLED USING "HIT-HY 200" BY HILTI, "SET" BY SIMPSON STRONG TIE OR APPROVED EQUAL.
10. CONTRACTOR SHALL SUBMIT MANUFACTURER'S LITERATURE FOR THE ANCHOR SYSTEM TO BE USED. THIS LITERATURE SHALL INCLUDE ANCHOR MATERIAL, STRENGTH DATA, EMBEDMENT LENGTH, DRILL BIT SIZE AND THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. FOR ADHESIVE ANCHORS INCLUDE ADHESIVE CHEMISTRY.

SPECIAL INSPECTIONS:

PER THE IBC SECTION 1704, SPECIAL INSPECTIONS ARE REQUIRED FOR THE FOLLOWING ITEMS:

- 1. CONCRETE:
a. INSPECTION OF REINFORCING STEEL AND PLACEMENT, (PERIODIC)
b. INSPECTION DURING WELDING OF REINFORCING STEEL:
• VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706, (PERIODIC)
• SHEAR REINFORCEMENT, (CONTINUOUS)
• OTHER REINFORCING STEEL, (PERIODIC)
c. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE, (CONTINUOUS)
d. VERIFYING USE OF REQUIRED MIX DESIGN, (PERIODIC)
e. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE, (CONTINUOUS)
f. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES, (CONTINUOUS)
g. INSPECTION OF SPECIFIED CURING AND TEMPERATURE AND TECHNIQUES, (PERIODIC)
h. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED, (PERIODIC)
i. NO INSPECTION IS REQUIRED FOR SLABS ON GRADE.
2. MASONRY:
a. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:
• PROPORTIONS OF SITE-PREPARED MORTAR, (PERIODIC)
• CONSTRUCTION OF MORTAR JOINTS, (PERIODIC)
• LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES, (PERIODIC)
b. THE INSPECTION PROGRAM SHALL VERIFY:
• SIZE AND LOCATION OF STRUCTURAL ELEMENTS, (PERIODIC)
• TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION, (PERIODIC)
• SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, (PERIODIC)
• WELDING OF REINFORCING BARS, (CONTINUOUS)
• PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F), (PERIODIC)
c. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:
• GROUT SPACE IS CLEAN, (PERIODIC)
• PLACEMENT OF REINFORCEMENT AND CONNECTORS AND ANCHORAGES, (PERIODIC)
• PROPORTION OF SITE-PREPARED MORTAR, (PERIODIC)
• CONSTRUCTION OF MORTAR JOINTS, (PERIODIC)
d. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS, (CONTINUOUS)
e. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED, (CONTINUOUS)
f. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED, (PERIODIC)
3. GEOTECHNICAL:
a. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY, (PERIODIC)
b. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL, (PERIODIC)
c. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS, (PERIODIC)
d. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL, (CONTINUOUS)
e. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PROPERLY PREPARED, (PERIODIC)
4. EXPANSION AND EPOXY ADHESIVE ANCHORS:
a. RECORD PRODUCT DESCRIPTION INCLUDING THE ADHESIVE PRODUCT NAME AND EXPIRATION DATE, ADHESIVE MIXING PROCEDURE AND USE OF PROPER NOZZLES FOR ALL CARTRIDGES, (PERIODIC)
b. VERIFY ANCHOR OR REINFORCEMENT BAR MATERIAL, GRADE, DIAMETER, LENGTH, AND CLEANLINESS, (PERIODIC)
c. VERIFY DRILL BIT DIAMETER, INCLUDING VERIFICATION OF DIAMOND-CORE AND CARBIDE-TIPPED DRILL BIT COMPLIANCE WITH ANSI B212.15, (PERIODIC)
d. VERIFY DEPTH AND CLEANLINESS OF HOLES, (PERIODIC)
e. VERIFY CONCRETE COMPRESSIVE STRENGTH BY ASTM C42 METHODS, (PERIODIC)
f. VERIFY PHYSICAL PROPERTIES OF THE CONCRETE MASONRY WALL CONSTRUCTION COMPONENTS, (PERIODIC)
g. VERIFY SUBSTRATE TEMPERATURE AT TIME OF ANCHOR INSTALLATION, (PERIODIC)
h. VERIFY ACTUAL GEL TIME WHEN INSTALLED ANCHORS ARE NOT DISTURBED, (PERIODIC)
i. VERIFY THAT THE ANCHOR INSTALLATION AND LOCATION, INCLUDING SPACING AND EDGE DISTANCE, ARE IN COMPLIANCE WITH THE MANUFACTURER'S SPECIFICATIONS, (PERIODIC)
5. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
a. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED CONSTRUCTION DOCUMENTS.
b. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN CHARGE.
c. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
d. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
e. PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL PROVIDE STATEMENT OF SPECIAL INSPECTIONS ACKNOWLEDGING THE REQUIREMENTS OF IBC SECTION 1710.



Table with 5 columns: DATE, REVISION, ADDENDUM #1, NO, BID. Includes issue date 10/11/24 and bid number 1010024.

CITY OF NORTH OLMSTED
SOUTH INTERCEPTOR
EQUALIZATION FACILITY
CUYAHOGA COUNTY
NORTH OLMSTED, OHIO
PUMP STATION - 10 SERIES
STRUCTURAL GENERAL NOTES

Table with 2 columns: PROJECT NO., DISCIPLINE, SHEET NAME, SHEET, OF. Includes project number 210888 and sheet number 10S-03.

