

# NEW RESTROOM BUILDING FOR FASOLA PARK

12 SYCAMORE LANE,  
DEPTFORD TOWNSHIP, NJ 08096

ABBREVIATIONS	SYMBOLS	LOCATION MAP	DRAWING INDEX- FASOLA PARK	BUILDING CHARACTERISTICS- FASOLA PARK								
<p>AL. TH. ALUMINUM THRESHOLD A.T. AIR TERMINAL B.L.P. BURNISHED LIGHT PANEL B.P. BEARING PLATE BRG. BEARING BRK. BRICK C.A.B.C. CABINET C.A.R.P. CARPET C.B. CATCH BASIN C.I. CONTROL JOINT C.L.G. CEILING C.L. CLOSET C.L.L. CONTRACT LIFT LINE C.L.R. CLEAR - CLEARANCE C.I. CAST IRON C.M.U. CONCRETE MASONRY UNIT C.O. CLEAN OUT C.O.L. CULPIN C.O.C. CONCRETE C.O.N.T. CONTINUOUS C.O.N.T.R. CONTRACTOR C.O.R.R. CORRIDOR C.O.R.R.U. CORRUGATED C.S. CONSTRUCTION SHIMMING C.S.P. CONSTRUCTION SHIMMING PAINTED C.T. CERAMIC TILE C.T.C.B. CERAMIC TILE COVE BASE C.H. COLD WATER D.E.P.O. DEPOSISH D.A. DIAMETER D.F. DRINKING FOUNTAIN D.L. DOUBLE LOAD D.R. DOOR D.W.G. DRAWING E.A. EACH E.L.E.C. ELECTRIC - ELECTRICAL E.L.E.V. ELEVATION E.P.N.L. ELECTRICAL PANEL E.Q.U.I.P. EQUIPMENT E.M.C. ELECTRIC WATER COOLER E.X.P.A.N.S.I.O.N. EXPANSION JOINT E.X.H.A.U.S.T. EXHAUST E.X.I.S.T.G. EXISTING E.T.R. EXISTING TO REPAIR F.A.B.C. FINE AGGREGATE BITUMINOUS CONCRETE F.B. FACE BRICK F.D. FLOOR DRAIN F.E. FIRE EXTINGUISHER F.N. FL. FINISH FLOOR F.N. GR. FINISH GRADE F.L. FLOOR F.D.N. FOUNDATION F.T.G. FOOTING G.Y.P. GYPSUM BOARD H.R.D. HD. HARDWOOD I.N.S.U.L. INSULATION I.N.T. INTERIOR I.N.V. INVERT J.A.N. JANITOR J.O.S.T. JOIST J.T. JOINT K.I.T. KITCHEN L.A.V. LAVATORY L.I.K.T. LIGHT HEIGHT L.F. LINEAR FEET M.A.X. MAXIMUM M.B.T.H. MARBLE THRESHOLD M.E.C.H. MECHANICAL M.F.R. MANUFACTURER M.F.N. FINISH M.F.R. FINISOR M.O. MASONRY OPENING M.T.P. METAL TOILET PARTITION M.R. MAT RECESS M.R.E.C. MOP RECEPTOR M.T. METAL THRESHOLD M.T.L. METAL N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE O.C. ON CENTER O.D. OUTSIDE DIAMETER O.F. OFFICE O.H.D. OVERHEAD DOOR O.P.N.G. OPENING O.P.N.G. OPENING P.E.R.F. PERFORATED P.L.A.S.T. PLASTIC P.L.A.T. PLATFORM P.L.Y.W.O.O.D. PLYWOOD P.S.F. POUNDS PER SQUARE FOOT P.S.I. POUNDS PER SQUARE INCH P.T. PORCELAIN TILE P.T.C.B. PORCELAIN TILE COVE BASE P.W. PAINTED P.V.C. POLYVINYL CHLORIDE Q.T. QUARRY TILE Q.T.C.B. QUARRY TILE COVE BASE R. RISER R.A.D. RADIUS R.D. ROOF DRAIN R.E.Q.D. REQUIRED R.F.G. RECESSED FLOOR SLEEVE R.F.S. RECESSED FLOOR SLEEVE R.F. ROOF R.O. ROUGH OPENING R.O.M. RIGHT OF WAY R.W.C. RAIN WATER CONDUCTOR S.A. SOUND ATTENUATION BLANKET S.A.N. SANITARY S.C.H.E.D.U.L.E. SCHEDULE S.D. SOAP DISPENSER S.E.C.T. SECTION S.E.R. SLOPE S.L. SKYLIGHT S.P.E.C. SPECIFICATIONS S.S. SERVICE SINK S.T.L. STEEL S.T.S.S. STAINLESS STEEL S.T.O.R. STORAGE S.U. SINK UNIT T. TREAD T.O.K. TOP OF CONCRETE T.O.M.E. TONGUE AND GROOVE T.I.L. THRESHOLD T.I.K. THICK - THICKNESS T.O.F. TOP OF FOOTING T.O.M. TOP OF MASONRY T.O.S. TOP OF STEEL T.P.N.L. TELEPHONE PANEL T.P. TYPICAL T.P. TOILET PARTITION U.C. UNDERCUT U.D. UNIT DIVISION U.G. UNDERGROUND U.H. UNIT HEATER U.N.D.E.R. UNLESS NOTED OTHERWISE U.S. UNDER SLAB U.V. UNIT VENTILATOR V. VENT V.C.B. VINYL COVE BASE V.C.T. VINYL COMPOSITION TILE V.S.B. VINYL STRAIGHT BASE V.E.S.T. VESTIBULE V.T.R. VENT THRU ROOF W. WITH W.A.B. WANDER INCL. CEMENTITIOUS BACKER W.C. WATER CLOSET W.D. WOOD W.I.T.H.O.U.T. WITHOUT W.H.S.C.T. WAINSCOT W.H. WIDTH W.H.E.L.D. WELD WIRE MESH</p>	<p>  EARTH   COMPACTED FILL   CONCRETE   CONCRETE BLOCK   SPLIT FACE BLOCK   BRICK   STEEL   RIGID INSULATION   BATT INSULATION   FINISH LUMBER   ROUGH LUMBER   SECTION NUMBER   SECTION INDICATOR   SHEET NUMBER   ELEVATION   DOOR NUMBERS   ROOM NUMBERS   FIRE EXTINGUISHERS   MASONRY WALL   CEILING HTD.LIGHT FIXTURES   EXHAUST FAN   FLOOR DRAIN         </p>	<p> <b>LOCATION MAP</b>  <b>SITE LOCATION</b>              12 SYCAMORE LN, DEPTFORD TOWNSHIP, NEW JERSEY 08096  </p> <p> <b>LIST OF CONSULTANTS</b>  <b>ARCHITECT</b>              MCKERNAN ARCHITECTS &amp; ASSOCIATES              100 DOBBS LANE SUITE 204              CHERRYHILL, N.J 08034              TEL: (856) 616-2960              FAX: (856) 616-2963         </p> <p> <b>M.E.P. ENGINEER</b>              HOLSTEIN WHITE INC.              210 E. STREET ROAD, SUITE 2D              FEASTERVILLE, PA 19053              TEL: (215) 322-7711              FAX: (215) 322-7709         </p> <p> <b>SITE ENGINEER</b>              BRYSON &amp; YATES CONSULTING ENGINEERS              307 GREENTREE ROAD              SEWELL, NJ 08080              TEL: (856) 589-1400              FAX: (856) 582-7476         </p>	<p> <b>DRAWING INDEX- FASOLA PARK</b>              CS-1 COVER SHEET  <b>ARCHITECTURAL DRAWINGS:</b>              A-1 PLANS, SCHEDULES &amp; DETAILS              A-2 BUILDING ELEVATIONS              A-3 BUILDING SECTIONS, WALL SECTIONS, DETAILS              A-4 ROOF PLAN &amp; ROOF FRAMING PLAN  <b>ENGINEERING DRAWINGS:</b>              M-1 FIRST FLOOR MECHANICAL PLAN &amp; MECHANICAL SCHEDULES &amp; DETAILS              E-0 SITE ELECTRICAL PLAN              E-1 FIRST FLOOR POWER AND LIGHTING PLAN              P-1 FIRST FLOOR PLUMBING PLAN              P-2 PLUMBING SCHEDULES &amp; DETAILS  <b>SITE IMPROVEMENTS &amp; UTILITIES</b>              SHEET 1 LEGEND &amp; NOTES              SHEET 2 EXISTING CONDITIONS PLAN              SHEET 3 OVERALL UTILITY PLAN              SHEET 4 SITE GRADING &amp; UTILITY PLAN              SHEET 5 CONSTRUCTION DETAILS              SHEET 6 SOIL EROSION &amp; SEDIMENT CONTROL PLAN              SHEET 7 SOIL EROSION CONTROL NOTES &amp; DETAILS              SHEET 8         </p> <p> <b>BUILDING CODES</b>              IBC- N.J.- 2018              U.C.C. V.J.A.C. 5:23-7 BARRIER FREE              ICC/ ANSI A 117.1- 2009              INTER MECH. CODE- 2018              NATIONAL ELEC. CODE- 2017              NATIONAL STD. PLB.G. CODE- 2018              INTERNATIONAL EMERGENCY CODE- 2018         </p>	<p> <b>BUILDING CHARACTERISTICS- FASOLA PARK</b>              BLOCK _____ 223              LOT _____ 64              USE GROUP _____ U              CONSTRUCTION TYPE _____ III              (1 STORY MASONRY STRUCTURE)              NUMBER OF STORIES _____ 1              HEIGHT OF STRUCTURE _____ 117'              BUILDING AREA _____ 1804 S.F.  <b>ROOF DESIGN LOADS</b>              LIVE LOAD ----- 30 P.S.F.              SHINGLE ROOF ----- 7              CEILING AND MISC. ----- 7              TOTAL ----- 44  <b>MISCELLANEOUS LOADS</b>              WIND LATERAL ----- 20 P.S.F. &amp; 1/3 FOR IMPACT              WIND UPLIFT LOAD ON CANOPIES &amp; OVERHANGS ----- 40 P.S.F.              WIND UPLIFT ON GENERAL ROOF AREA ----- 15 P.S.F.              SEISMIC LOADS ----- SAME AS WIND LATERAL LOADS              SNOW LOADS ----- 20 P.S.F.              RE-BID DATE: 12/12/22         </p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>REV'D BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p> <b>APPROVAL</b>              PROJECT: <b>NEW RESTROOM BUILDING FOR FASOLA PARK</b>              12 SYCAMORE LN, DEPTFORD TOWNSHIP, NJ 08096              TITLE: <b>COVER SHEET</b>              SCALE: AS NOTED              DRAWING NO: <b>CS-1</b>              JOSEPH F. MCKERNAN JR., R.A.              100 DOBBS LANE SUITE 204 CHERRY HILL, NEW JERSEY 08034              DATE: 9/23/22              REVISIONS: _____              DRAWN BY: TC              CHECKED BY: _____         </p>	NO.	DATE	DESCRIPTION	REV'D BY				
NO.	DATE	DESCRIPTION	REV'D BY									

DOOR SCHEDULE											
DOOR NO.	OPENING SIZE	TYPE	THICK	MAT.	FRAME					REMARKS	
					TYPE	MAT.	HEAD	JAMB	SILL		HDW. SET
1	3'-0" x 7'-0"	1	2"	FRP	A	AL.	2	2	AL.	1	KICKPLATE
2	3'-0" x 7'-0"	1	2"	FRP	A	AL.	2	2	AL.	1	KICKPLATE
3	3'-0" x 7'-0"	1	2"	HM	A	HM	1	1	-	2	

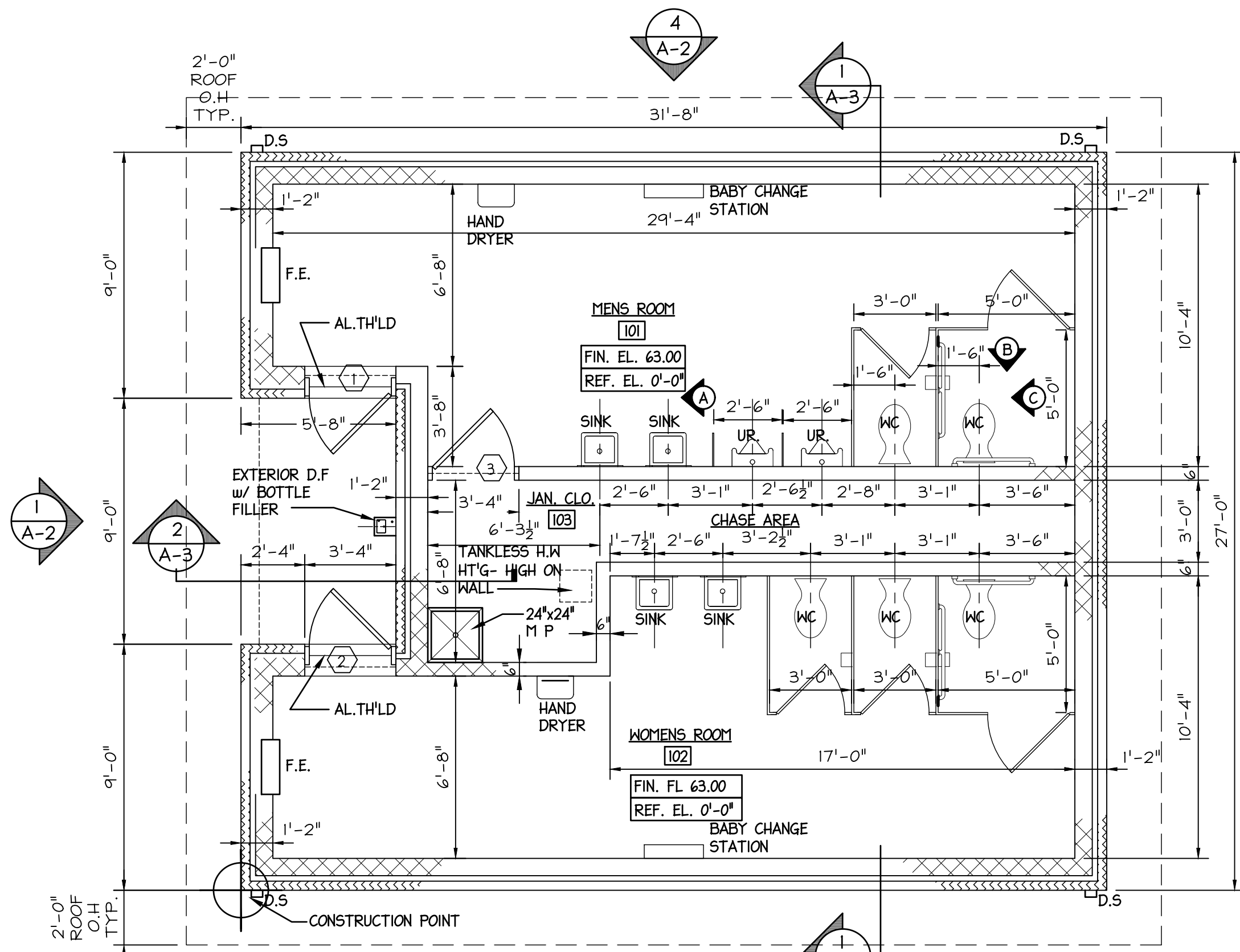
ROOM FINISH SCHEDULE: RENOVATED AREA (FIRST FLOOR)							
ROOM NO.	ROOM NAME	FLOOR	WALLS	CEILING	HEIGHT	REMARKS	
101	WOMENS ROOM	RESINOUS FLOORING	EPOXY PTD.	PTD. GYP. BD.	10'-0"	RESINOUS FLR. COATING- EXTEND 4" UP WALL	
102	MENS ROOM	RESINOUS FLOORING	EPOXY PTD.	PTD. GYP. BD.	10'-0"	RESINOUS FLR. COATING- EXTEND 4" UP WALL	
103	JANITORS CLOSET	CONCRETE	---	---	---	#SEAL CONC. FLOOR SLAB	

**GENERAL NOTES:**

- PROVIDE AND INSTALL FIRE EXTINGUISHER & SEMI-RECESSED CABINET AS FOLLOWS: MULTIPURPOSE DRY-CHEMICAL TYPE, UL-RATED 4-A-60-BC, 10 LBS. NOMINAL CAPACITY IN ENAMELED STEEL CONTAINER. MULTIPURPOSE DRY-CHEMICAL TYPE, UL-RATED 4-A-60-BC, 10 LBS. NOMINAL CAPACITY IN ENAMELED STEEL CONTAINER. J.L. SAF-T-LOK SEMI-RECESSED CABINET, MODEL: "AMBASSADOR" MODEL NO. 10710 W/ SAF-T-LOK
- CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION OF SITE AROUND PERIMETER OF BUILDING 120'-0".

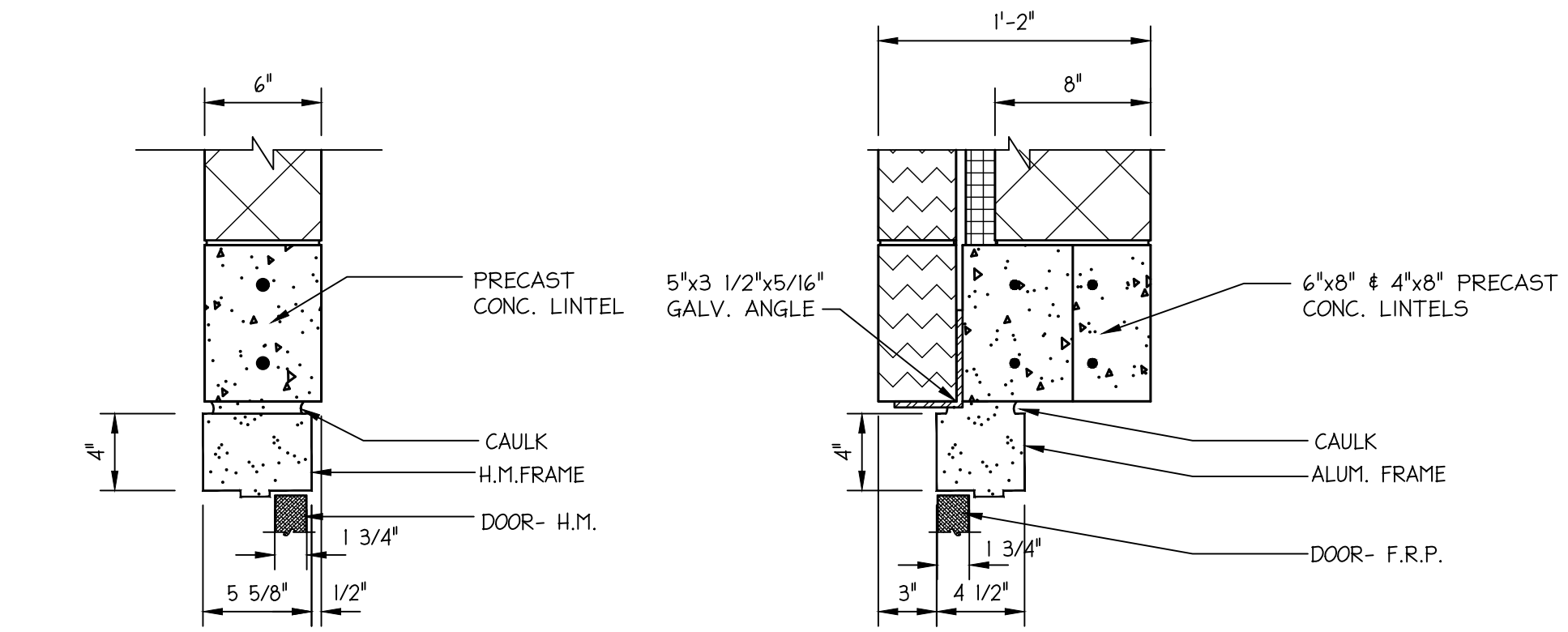
SEE BRYSON & YATES SHEET 4 OF 10 FOR FIN. FL. ELEV: 63.00 REF. EL. 0'-0"

SEE BRYSON & YATES SHEET 3 OF 10 FOR ELEVATION BENCH MARK

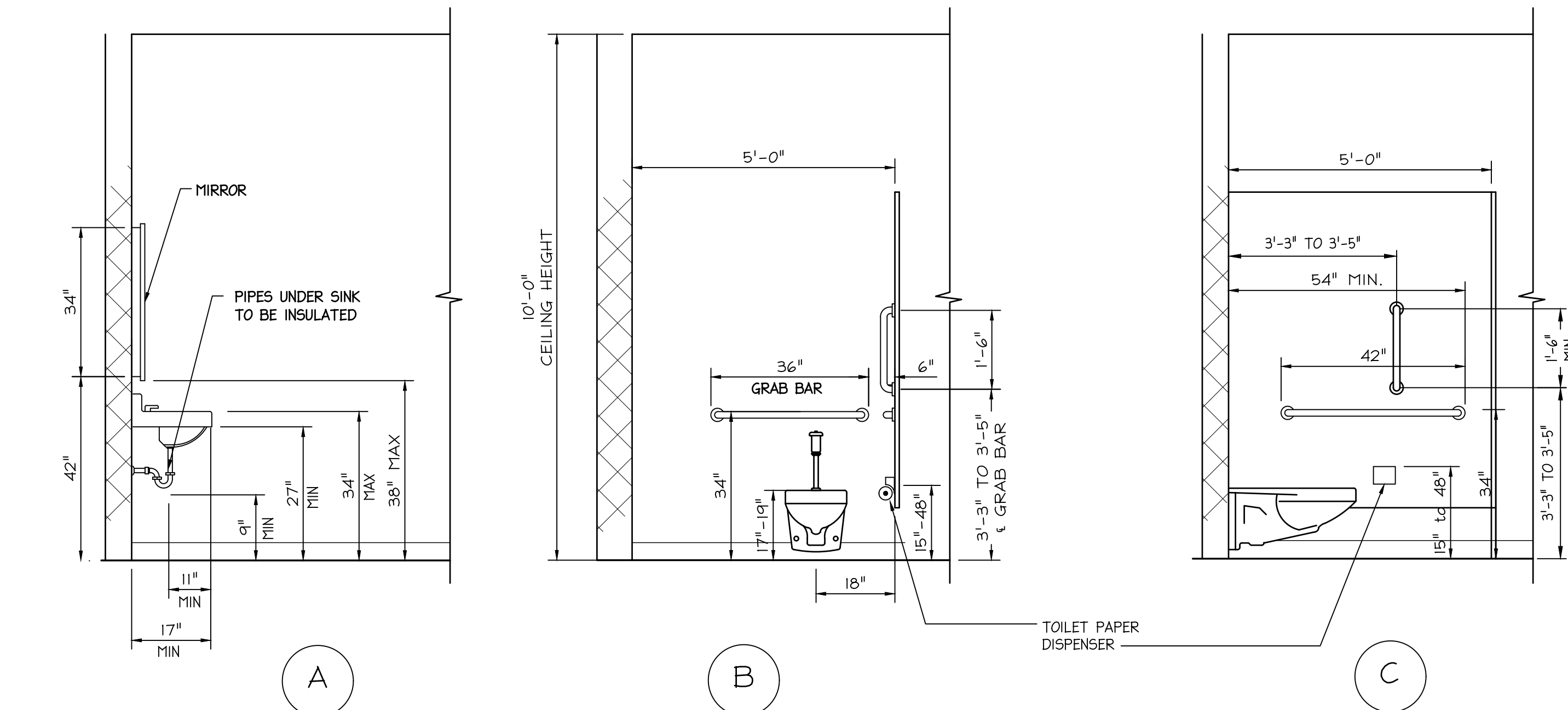


**1 FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

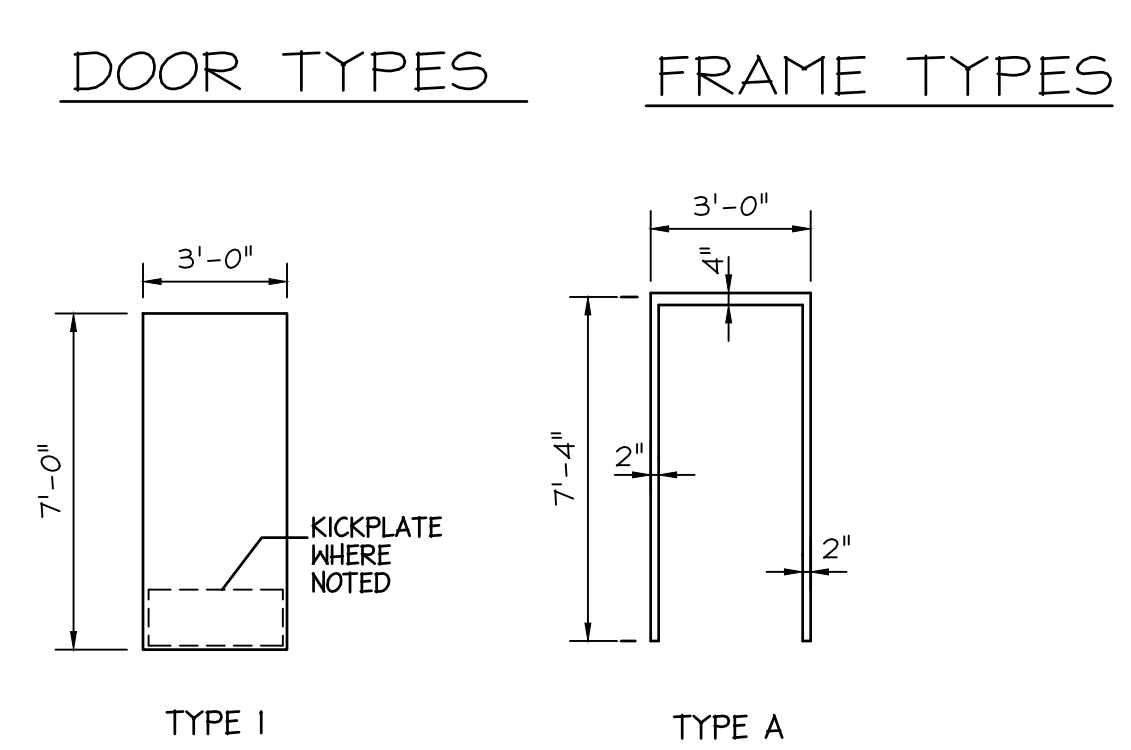
**2 FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



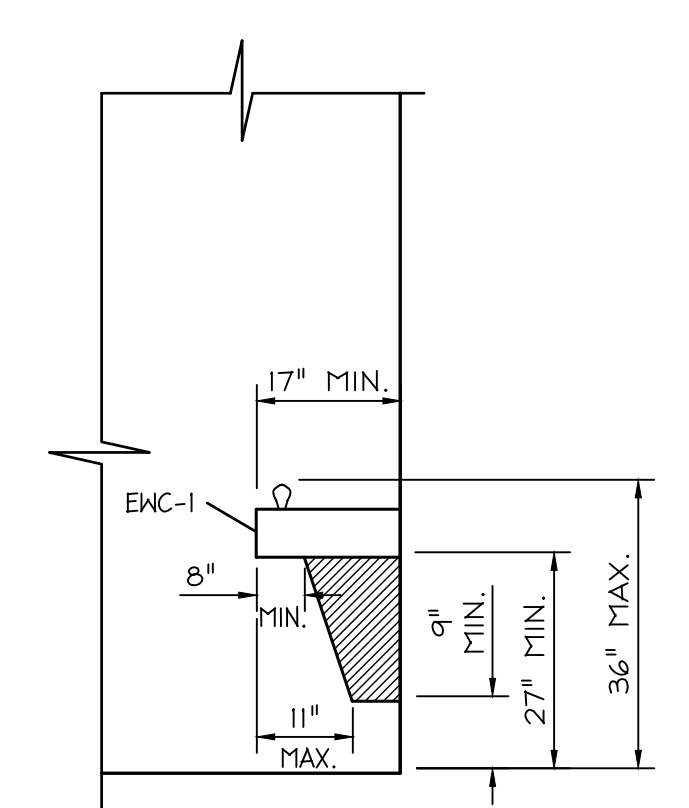
**3 HEAD & JAMB DETAIL**  
SCALE: 1/2" = 1'-0"



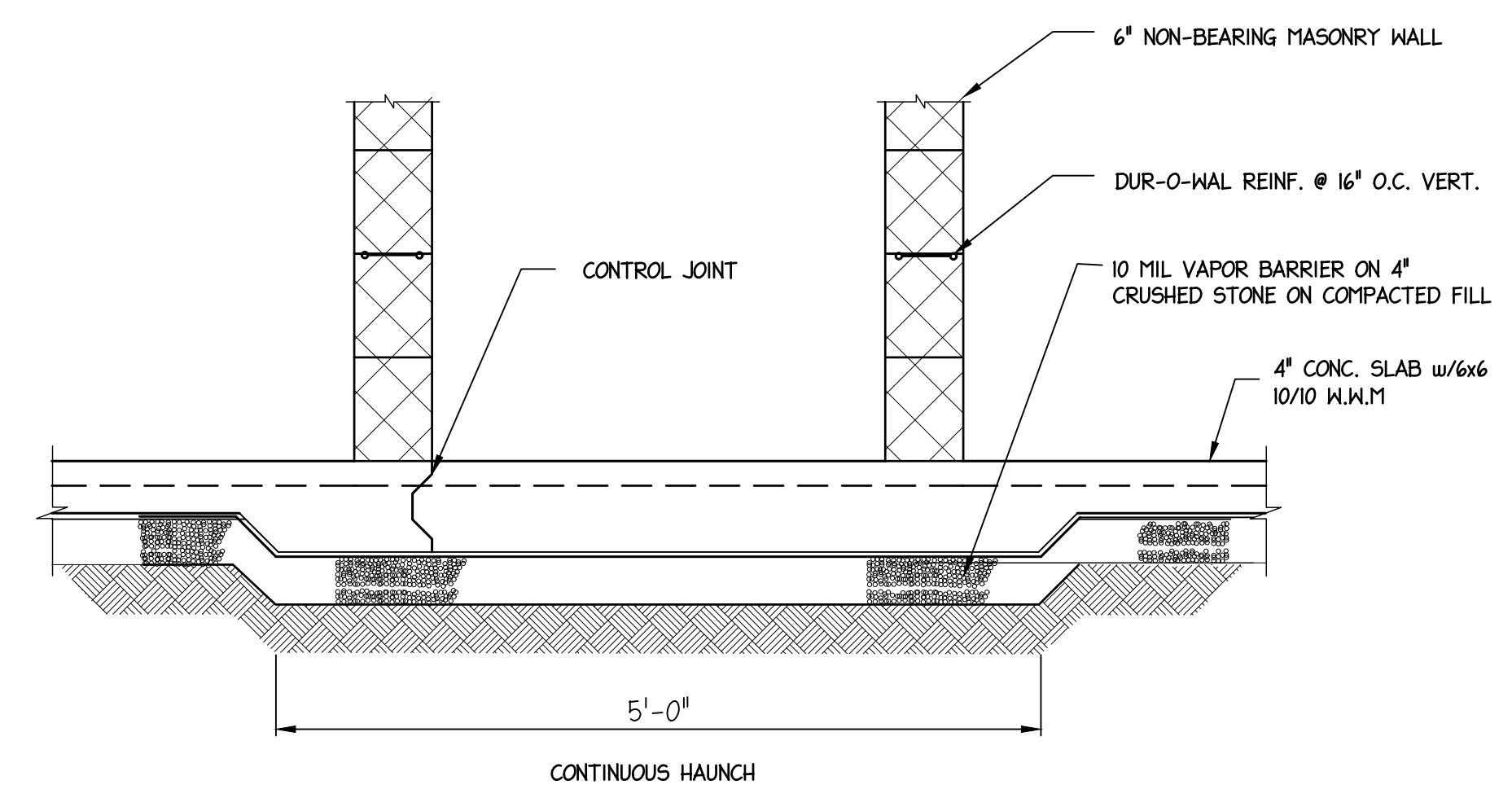
**4 HANDICAP LAV. & TOILETS**  
SCALE: 1/2" = 1'-0"



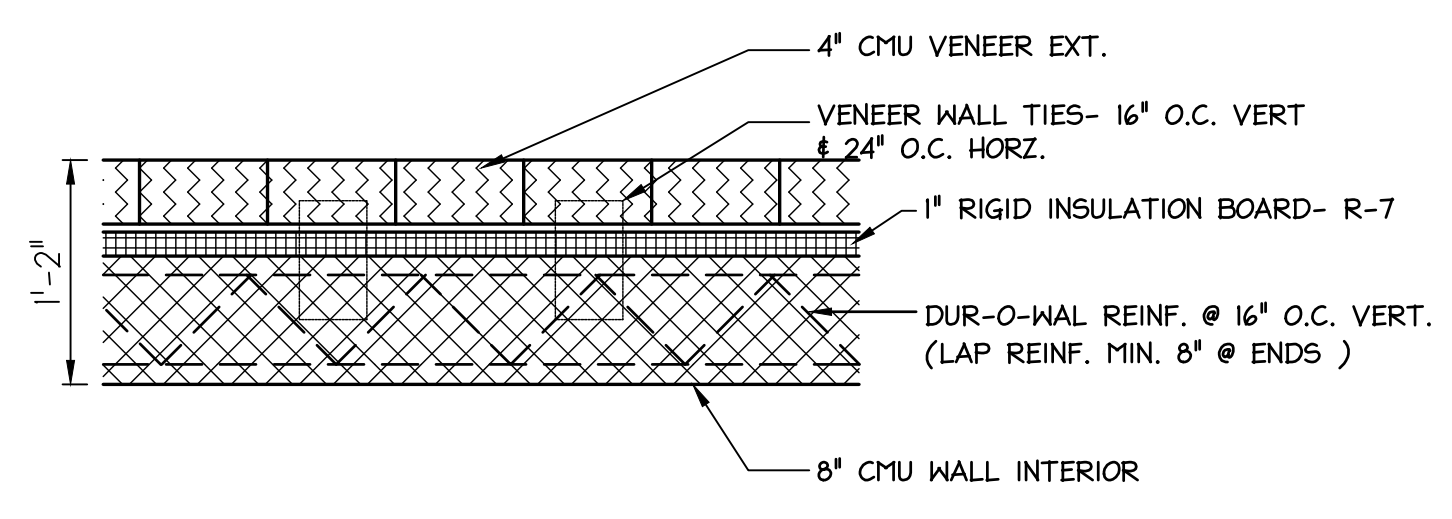
**4 DOOR & FRAME TYPES**  
SCALE: 1/4" = 1'-0"



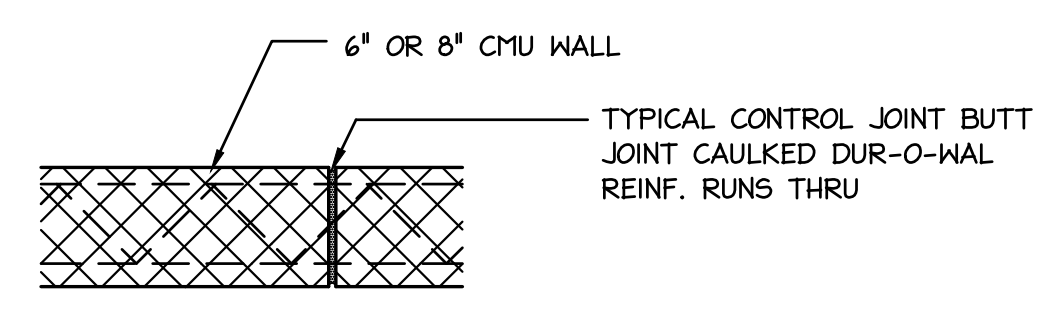
**5 EXT. WATER FOUNTAIN**  
SCALE: 1/2" = 1'-0"



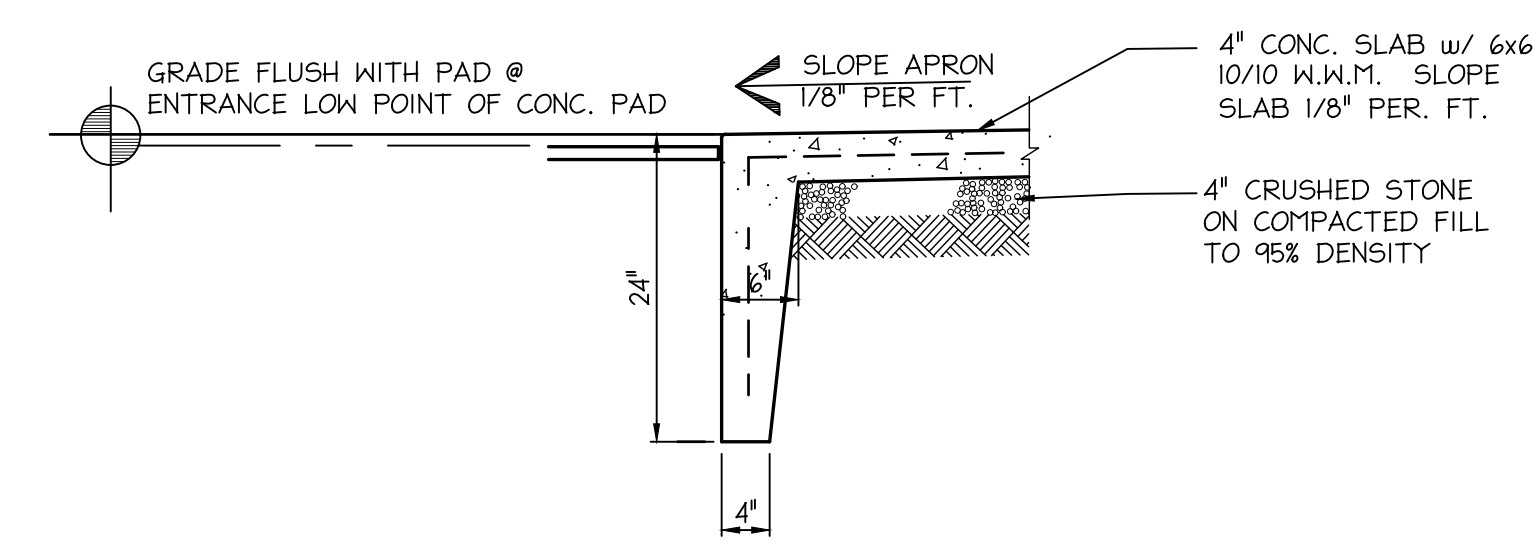
**6 NON-BEARING WALL HAUNCH**  
SCALE: 1" = 1'-0"



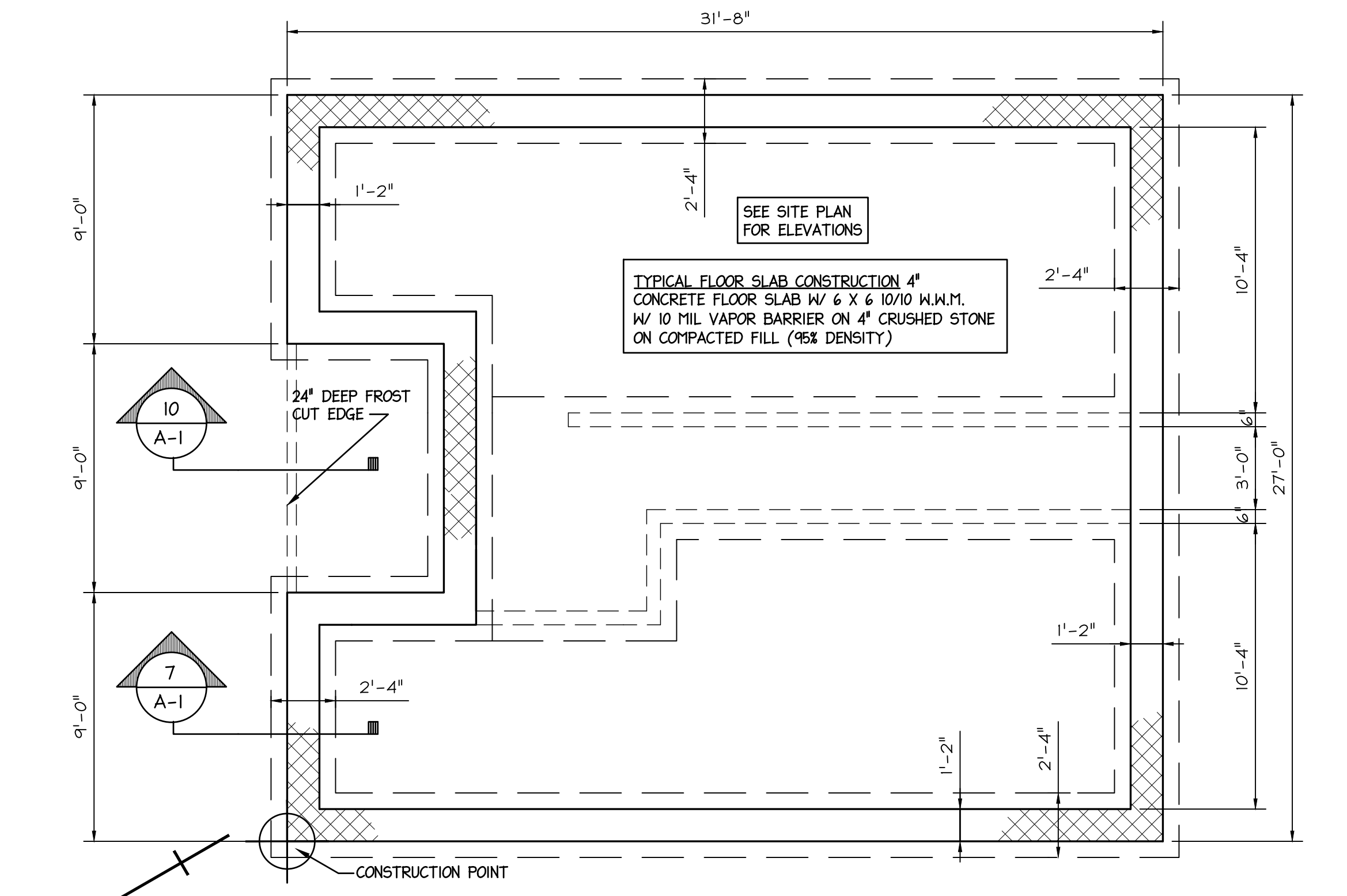
**8 WALL REINFORCING DETAIL**  
SCALE: 1" = 1'-0"



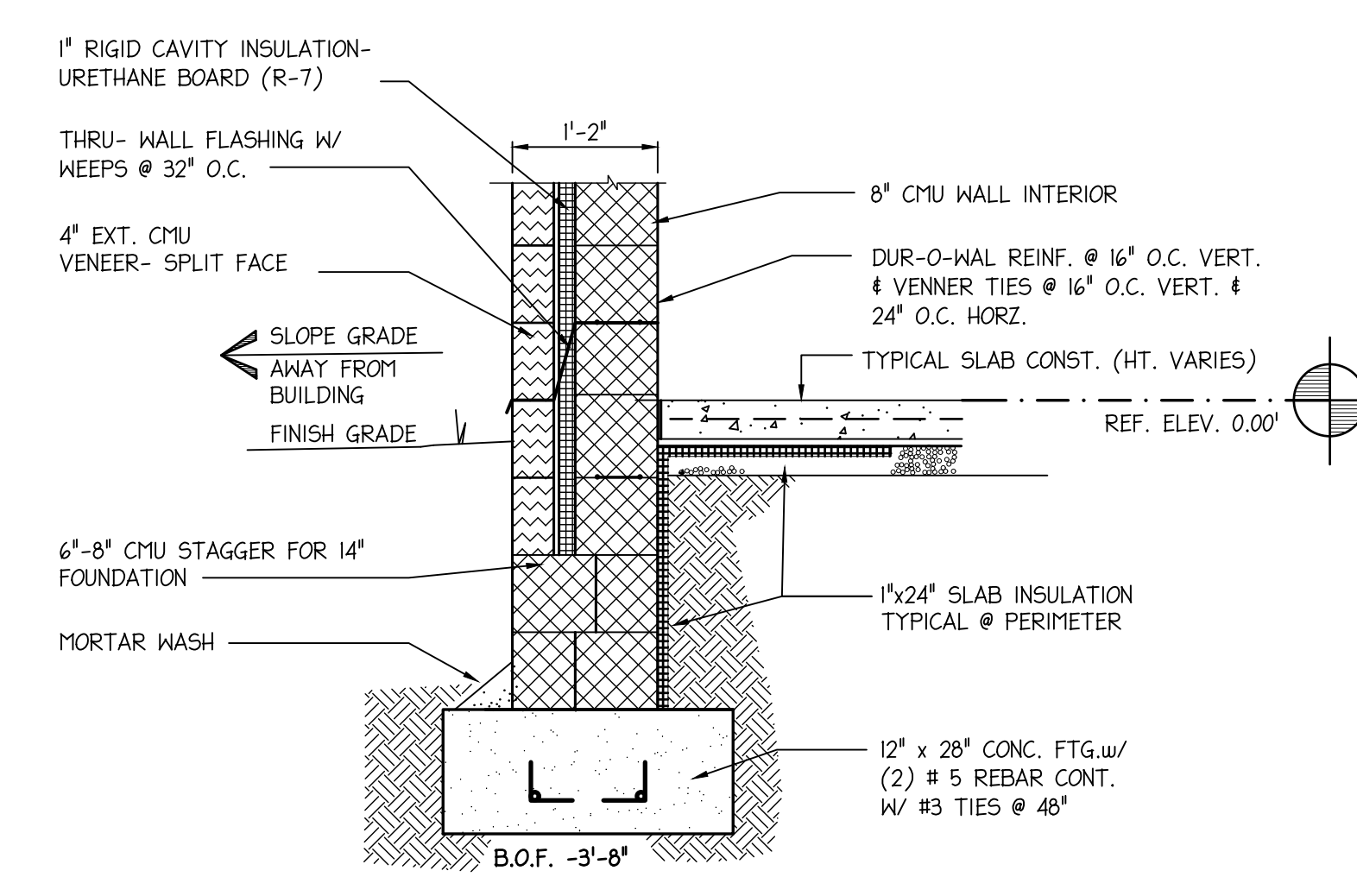
**9 CMU JOINT DETAIL**  
SCALE: 1" = 1'-0"



**10 FROST-CUT SLAB DETAIL**  
SCALE: 3/4" = 1'-0"



- FOUNDATION NOTES**
- ALL FOOTINGS TO BE FORMED AND WELL TAMPED. IF FOOTINGS ARE PERMITTED BY ARCHITECT TO BE POURED WITHOUT FORMS, TRENCHES MUST BE SHARP AND TRUE IF NOT, FORMS MUST BE USED.
  - ALL FOOTING ELEVATIONS ARE TO BOTTOM OF FOOTING (B.O.F.)
  - ALL FLOOR SLABS ARE TO BE 4" WITH 6 X 6 X 6 10/10 WELDED WIRE MESH.
  - INSTALL 10 MIL VAPOR BARRIER UNDER ENTIRE BUILDING.
  - ALL FOOTINGS SHALL BE A MINIMUM OF 12" BELOW EXISTING UNDISTURBED GRADE, AND 3'-0" BELOW FINISH GRADE. B.O.F. (BOTTOM OF FOOTING) IS GIVEN AS A GUIDE ONLY. SHOULD EXISTING GRADE BE OTHER THAN INDICATED, THE G.C. SHALL COMPENSATE FOR THE DIFFERENCE.
  - ALL REINFORCED CONCRETE SHALL BE INSTALLED ACCORDING TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AC 318-63, APPROVED AS AMERICAN STANDARD BY THE AMERICAN STANDARD ASSOCIATION.
  - ALL MASONRY WALLS ARE TO COMPLY WITH THE AMERICAN STANDARD BUILDING CODE REQUIREMENTS FOR MASONRY.
  - ALL HOLLOW BLOCK IS TO COMPLY WITH THE A.S.T.M. SPECIFICATION DESIGNATION C-90-59, GRADE "A", WITH 1-1/4" FACE SHELL THICKNESS BELOW GRADE AND ABOVE GRADE ON EXTERIOR WALLS WHERE EXPOSED.
  - MORTAR AS SPECIFIED IS A.S.T.M., TYPE N/S (1000 #/SQ. INCH). LOADS ON MASONRY ARE TO BE CALCULATED NOT TO EXCEED CODE VALUES OF: 75#/SQ. INCH ON HOLLOW BLOCK 110#/SQ. INCH ON SOLID BLOCK 250#/SQ. INCH ON CONCRETE.



**7 FOOTING DETAIL**  
SCALE: 3/4" = 1'-0"

RE-BID DATE: 12/12/22

NO.	DATE	DESCRIPTION	REVISED BY

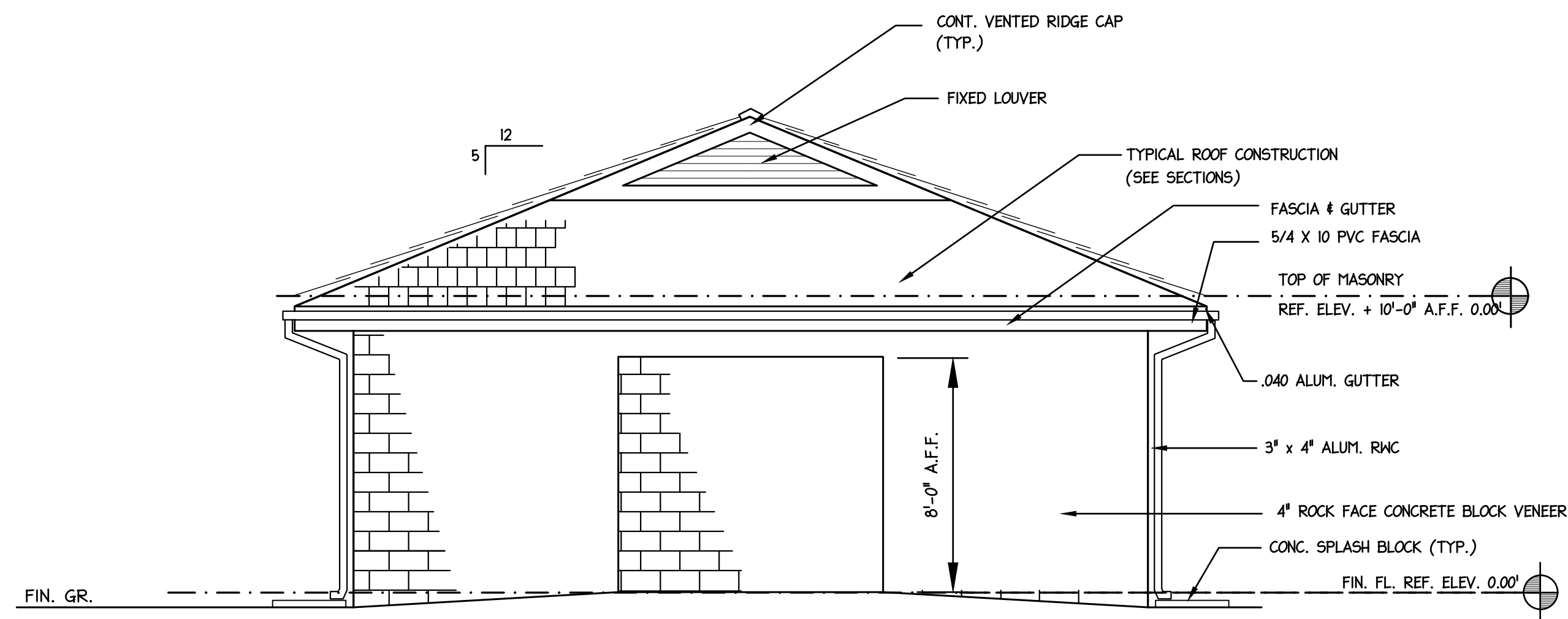
APPROVAL: PROJECT: **RESTROOM BUILDING FOR FASOLA PARK**

12 SYCAMORE LN, DERPTFORD TOWNSHIP, NJ 08046

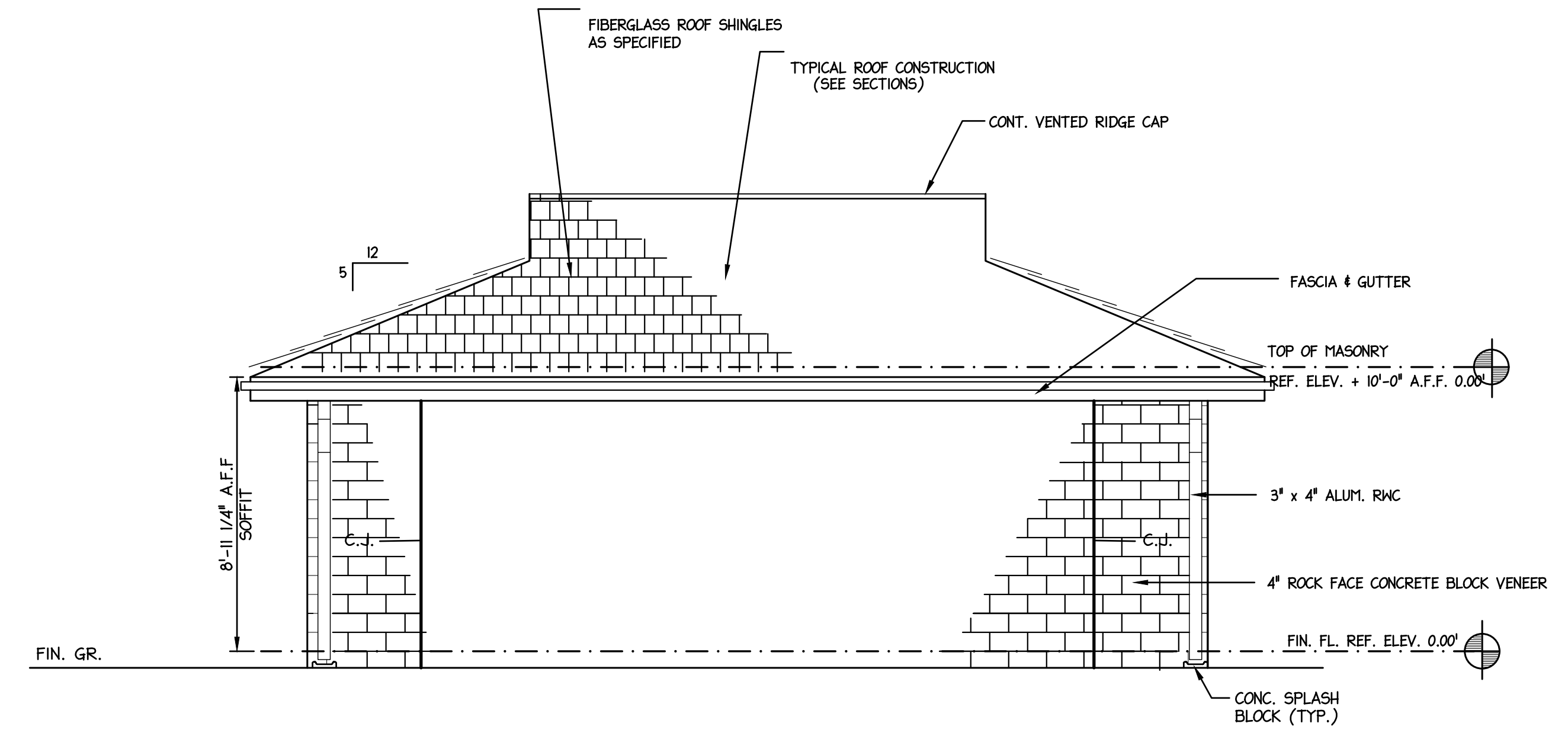
Joseph F. McKernan Jr., Architects & Associates  
100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034

PROJ. NO. 22-001  
DATE: 12/22/22  
REVD. BY: TC  
CHKD BY: DMF

SCALE: AS NOTED  
DRAWING NO. **A-1**

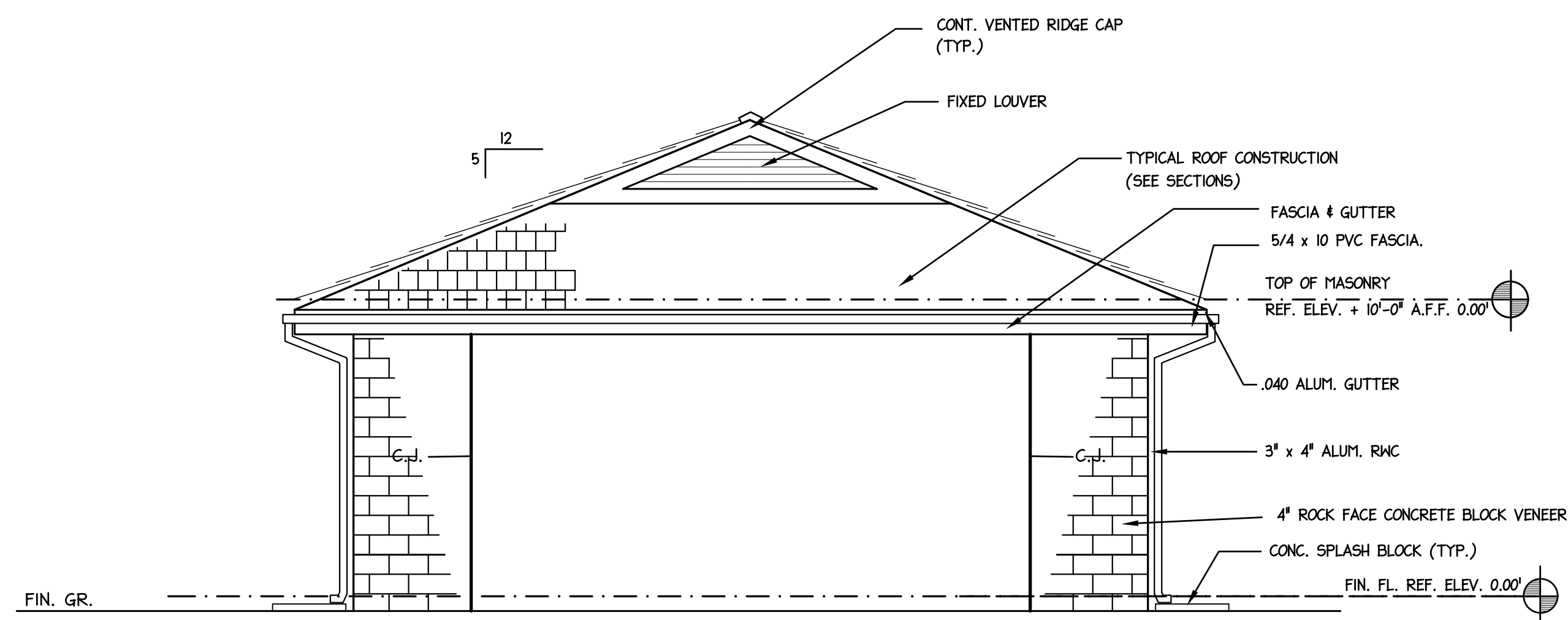


1 FRONT ELEVATION  
A-2 SCALE 1/4" = 1'-0"

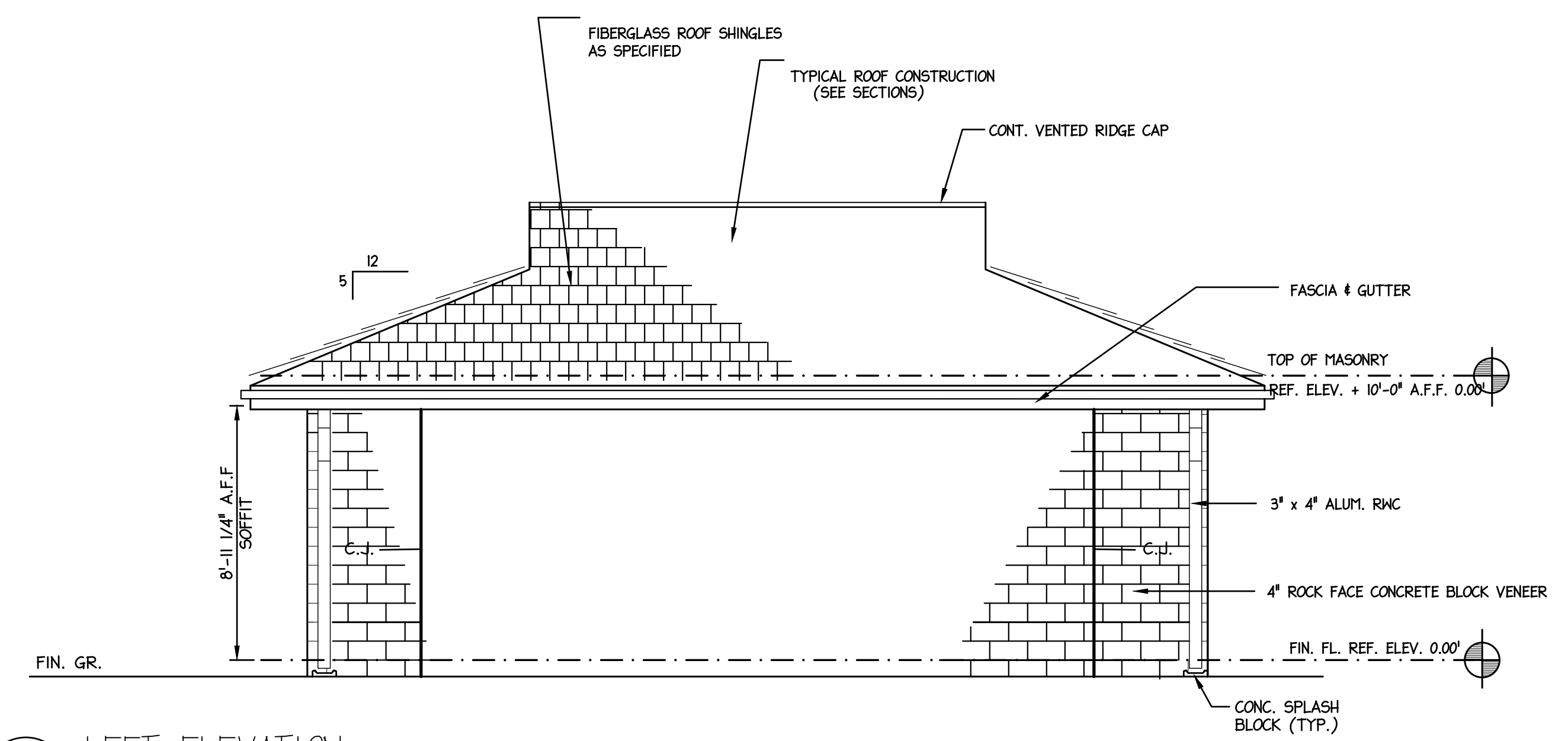


2 RIGHT ELEVATION  
A-2 SCALE 1/4" = 1'-0"

NOTE:  
FINISH GRADE VARIES AROUND THE  
BUILDING—REFER TO CIVIL ENGINEER'S  
SITE PLAN




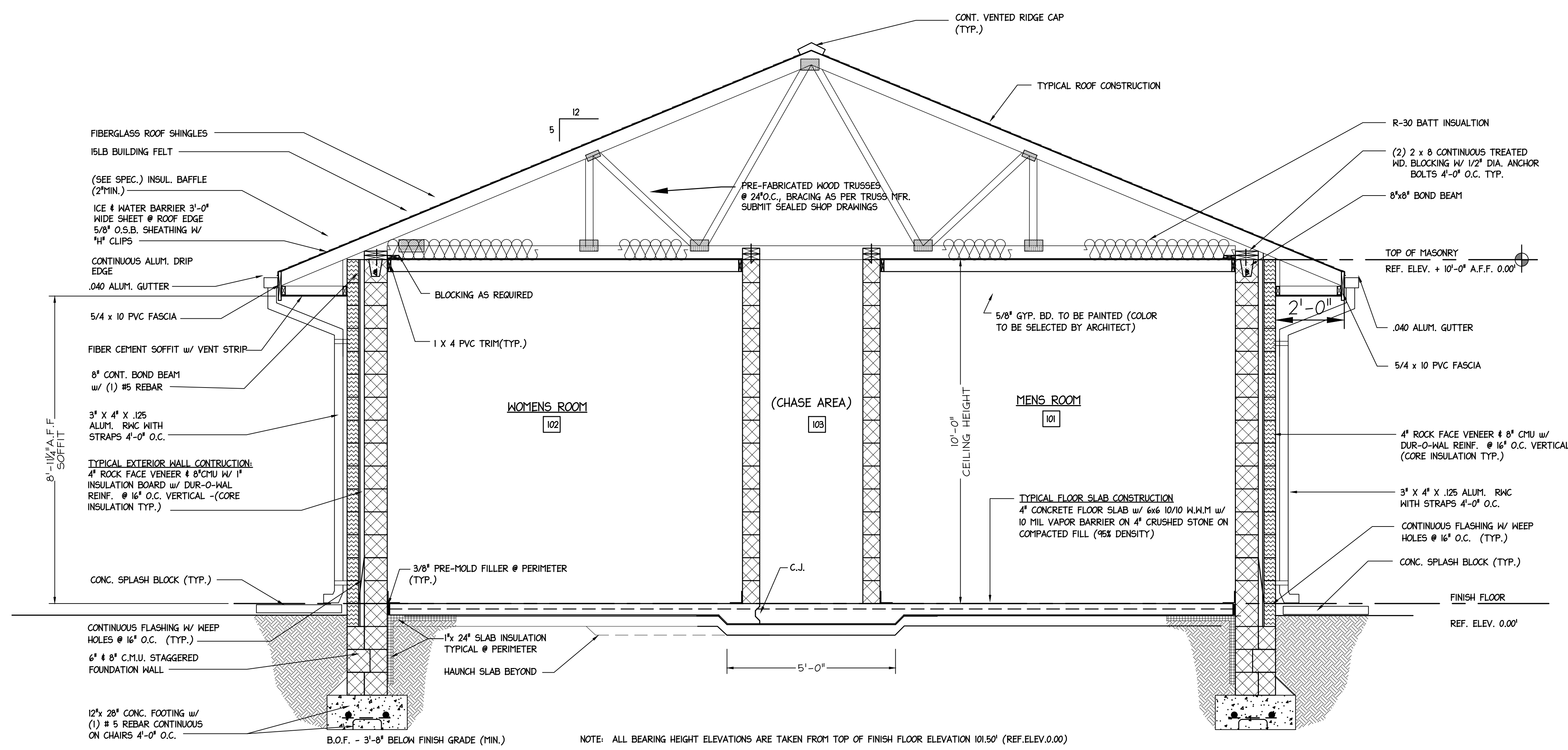
3 REAR ELEVATION  
A-2 SCALE 1/4" = 1'-0"



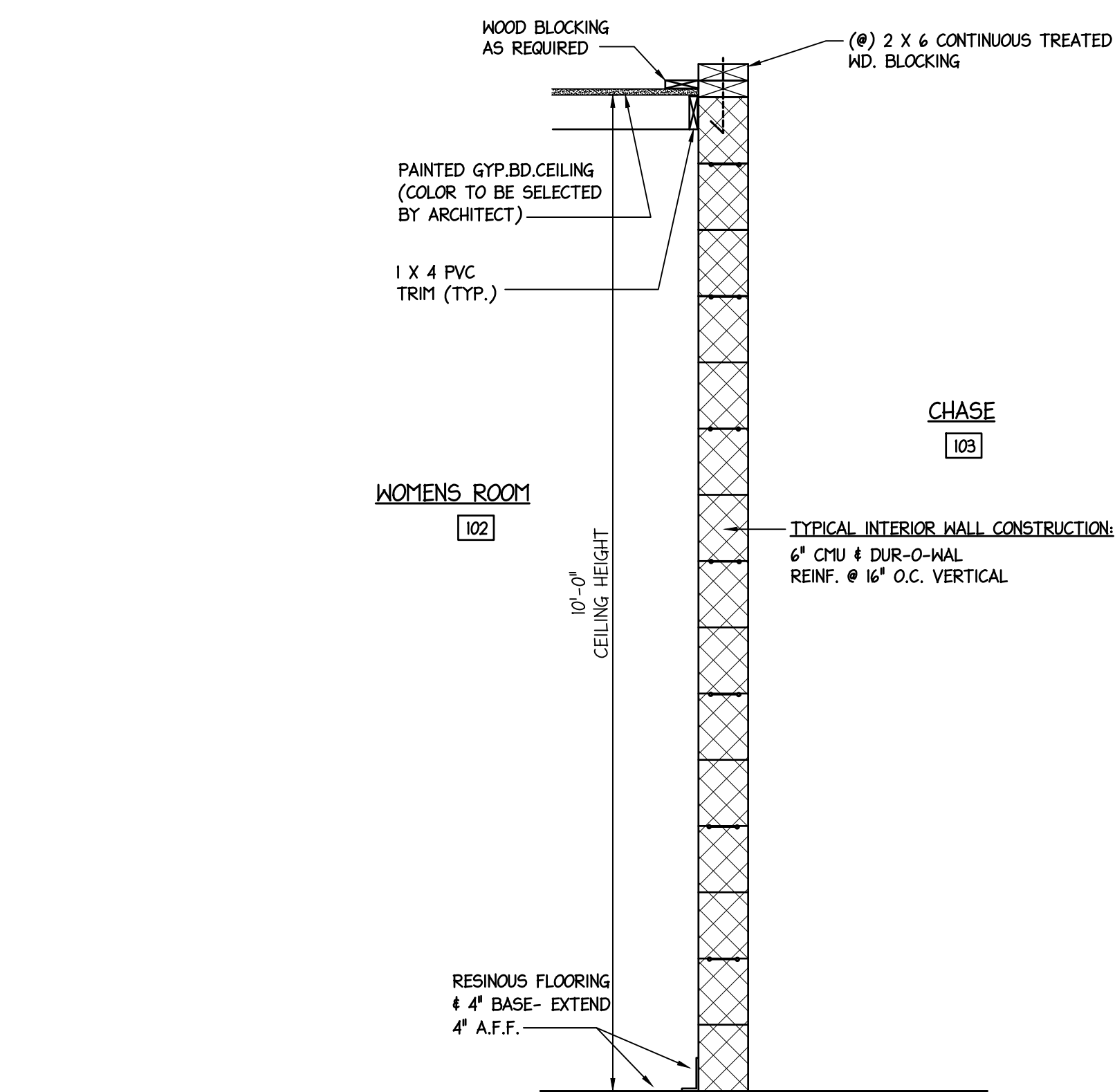
4 LEFT ELEVATION  
A-2 SCALE 1/4" = 1'-0"

RE-BID DATE: 12/12/22

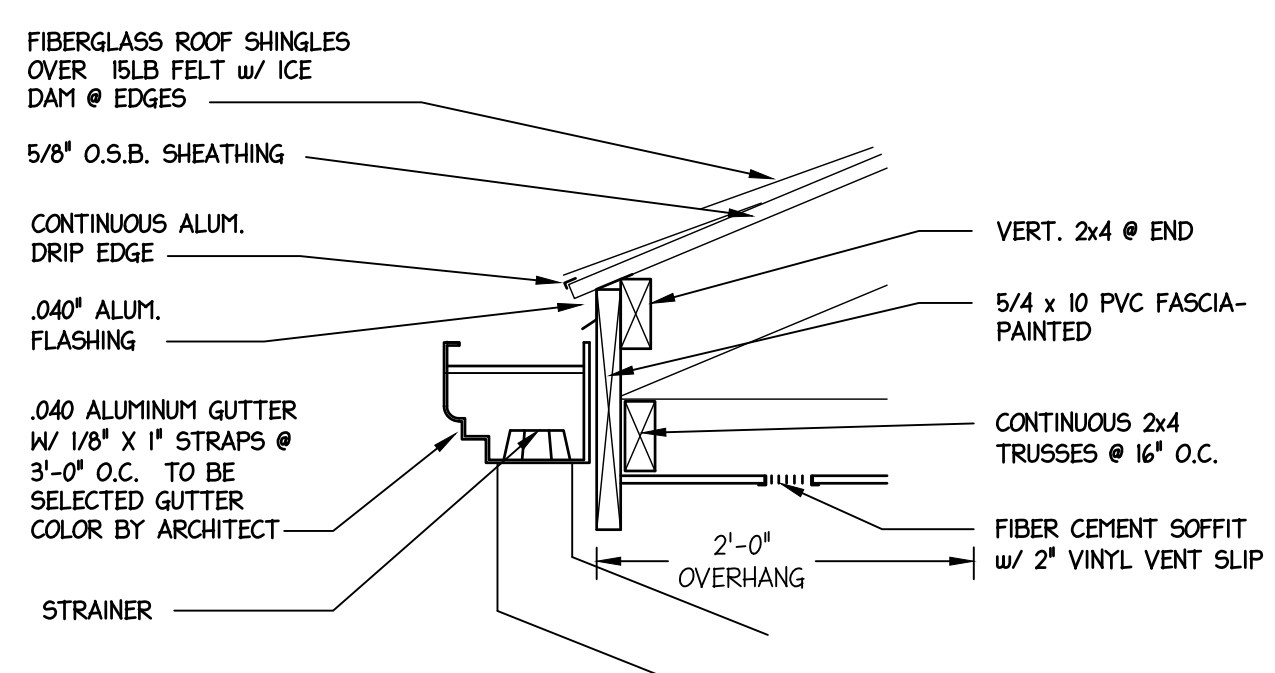
No.	DATE	DESCRIPTION	REV'D BY
APPROVAL:			
PROJECT:		<b>RESTROOM BUILDING</b> FOR <b>FASOLA PARK</b> 12 SYCAMORE LN, DERPTFORD TOWNSHIP, NJ 08036	
 Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: <b>BUILDING ELEVATIONS</b>	
JOSEPH F. MCKERNAN JR., R.A. <small>NJ ARCH. AL. 0004, PA. ARCH. EX-000001-01, CT. ARCH. 1004</small>		SCALE: AS NOTED PROJ. NO.: 188 DATE: 4/29/22 DRAWN BY: TC CHECKED BY: DDF	
<small>PROVISIONS MUST BE KEPT IN ALL PROJECTS UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS OR BY LOCAL ORDINANCE.</small>		DRAWING NO: <b>A-2</b>	



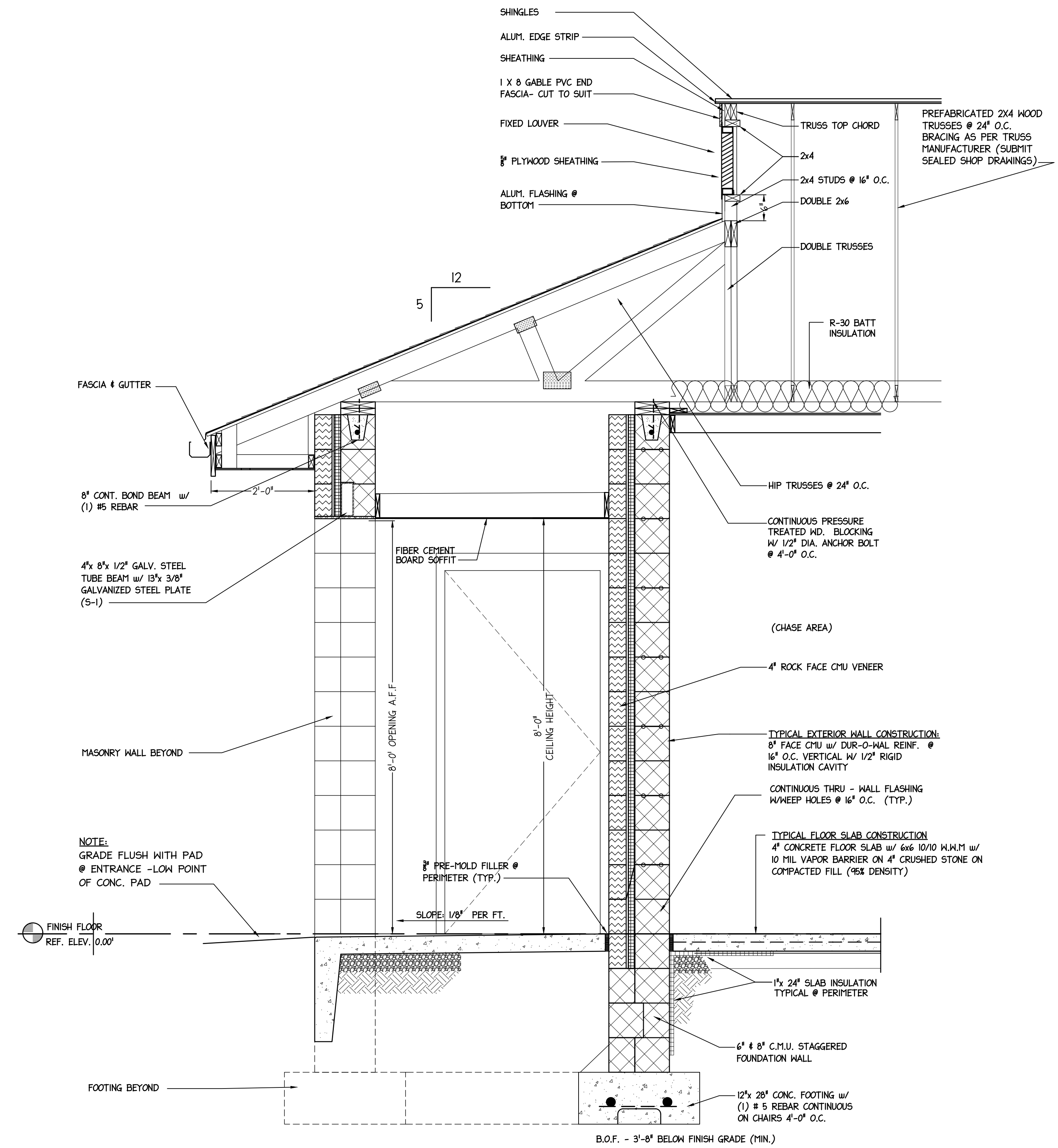
1 BUILDING SECTION  
SCALE: 1/2" = 1'-0"



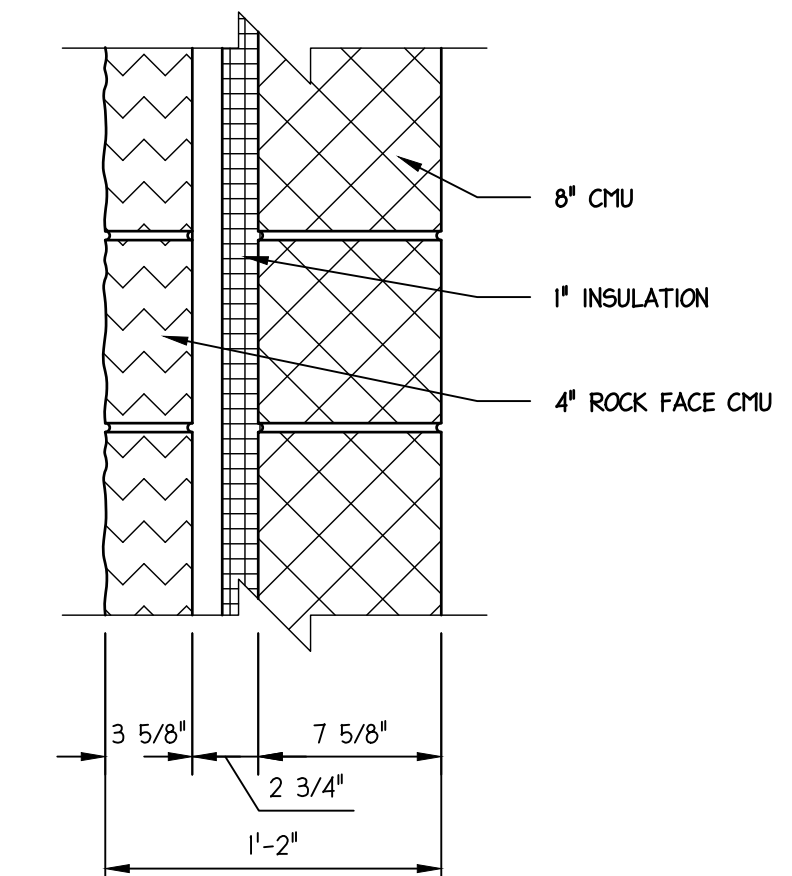
3 INTERIOR PARTITION  
SCALE: 3/4" = 1'-0"



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



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



5 TYP. WALL DETAIL  
SCALE: 1 1/2" = 1'-0"

RE-BID DATE: 12/12/22			
No.	DATE	DESCRIPTION	REV'D BY
APPROVAL:			
PROJECT:		RESTROOM BUILDING FOR FASOLA PARK	
12 SYCAMORE LN, DERPTFORD TOWNSHIP, NJ 08026		TITLE: BUILDING SECTIONS, WALL SECTIONS & DETAILS	
Joseph F. McKernan Jr., R.A. 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		DATE: 4/25/22	
DRAWN BY: TC		CHECKED BY: DDF	
SCALE: AS NOTED		DRAWING NO: A-3	





**CALL BEFORE YOU DIG !**

NEW JERSEY STATUTE 2C:17-5 OF 1979  
REQUIRES (3) WORKING DAYS NOTICE FOR  
CONSTRUCTION PHASE AND (5) WORKING  
DAYS IN DESIGN STAGE -- STOP CALL

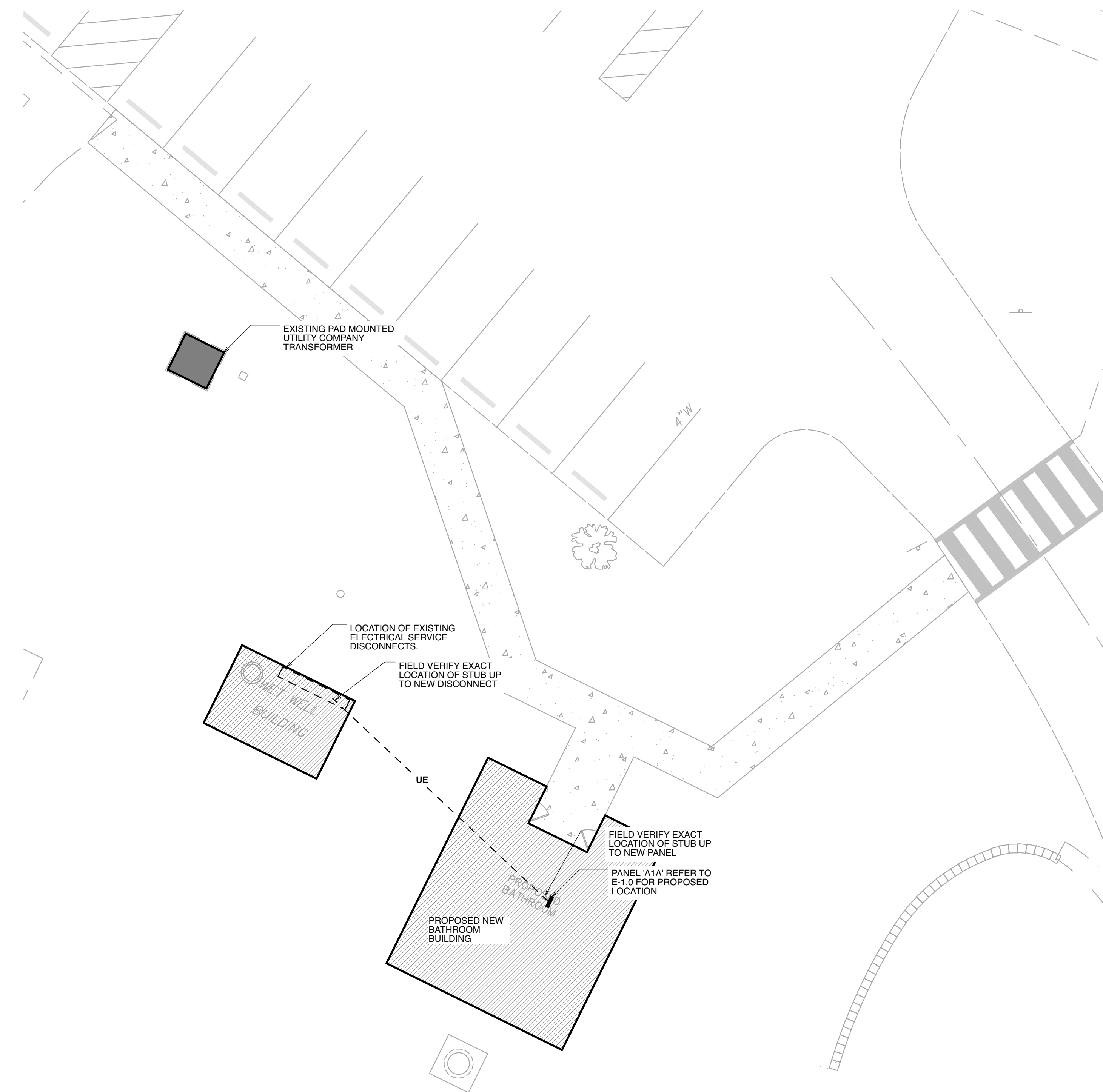
**Garden State Underground  
Utility Locator Service**



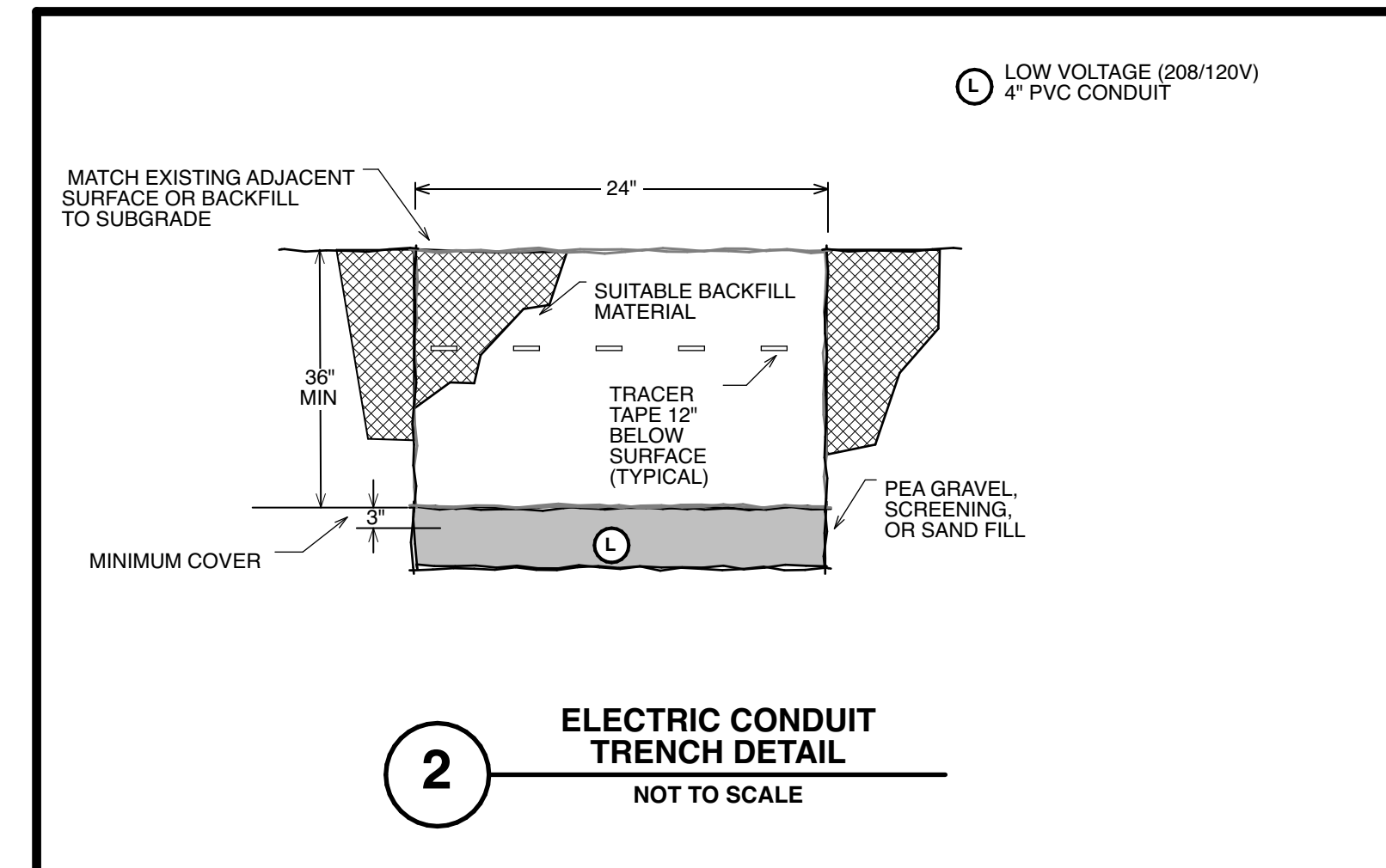
(908) 232 - 1232

**SITE ELECTRICAL NOTES**

1. PLAN IS DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND SITE WORK WITH OWNER, ARCHITECT, AND CIVIL ENGINEER PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF UNDERGROUND SERVICES WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
3. EXACT ROUTING AND TERMINATION POINTS OF UNDERGROUND SERVICES SHALL BE VERIFIED WITH THE UTILITY COMPANY AND OTHER CONTRACTORS.
4. IN ADDITION TO THE LENGTH SHOWN, THE CONTRACTOR SHALL PROVIDE A UNIT PRICE PER 25' OF RUN FOR SECONDARY ELECTRIC SERVICE CONDUITS, RELATED TRENCHING, AND BACKFILL.
5. IN ADDITION TO THE LENGTH SHOWN, THE CONTRACTOR SHALL PROVIDE A UNIT PRICE PER 25' OF RUN FOR TELEPHONE SERVICE CONDUITS, RELATED TRENCHING, AND BACKFILL.
6. COORDINATE FINAL INTERCONNECTIONS TO EACH UTILITY COMPANY. PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR SERVICE CONNECTIONS IN ACCORDANCE WITH EACH UTILITY (POWER AND COMMUNICATIONS) COMPANY SERVICE STANDARDS.
7. UNLESS OTHERWISE NOTED, UNDERGROUND ELECTRICAL AND COMMUNICATIONS CONDUITS SHALL BE 1" MINIMUM BELOW GRADE. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC.
8. PROVIDE, IN TRENCH CONTAINING ELECTRIC AND COMMUNICATION DUCT SYSTEMS, AN UNDERGROUND UTILITY MARKING TAPE. TAPE SHALL BE BURIED 1 FOOT BELOW GRADE AND RUN CONTINUOUS THE ENTIRE LENGTH OF DUCT TRENCH. TAPE SHALL BE BRIGHTLY COLORED RED POLYETHYLENE LONG LIFE TYPE WITH PRINTED WARNINGS TO READ "CAUTION, BURIED ELECTRIC LINE BELOW".
9. PROVIDE ALL REQUIRED EXCAVATION TRENCHING, BACKFILLING, COMPACTING IN ACCORD WITH THIS DIVISION.
10. PROVIDE APPROVED GROUNDING CONDUCTOR IN ALL CONDUIT.
11. PROVIDE PVC CONDUIT BURIED 30 INCHES MINIMUM BELOW FINISHED GRADE, OR AS OTHERWISE INDICATED, FOR SERVICES AND FEEDERS.
12. PROVIDE UNDERGROUND DUCTS IN A STRAIGHT LINE. POCKETS WHERE WATER CAN ACCUMULATE IN CONDUITS WILL NOT BE PERMITTED.
13. ALL UNDERGROUND CONDUITS SHALL BE WATER-TIGHT. DOPE THREADS OF STEEL CONDUIT BEFORE JOINING. PVC CONDUITS SHALL BE CHEMICALLY BONDED AROUND ENTIRE CIRCUMFERENCE OF THE CONDUIT AT EACH JOINT. PROVIDE A MINIMUM OF 6 FEET OF RIGID STEEL CONDUIT WHEN ENTERING OR RUNNING UNDER MANHOLES, TRANSFORMER PADS, AT BUILDING WALLS OR FOUNDATIONS AND ON BOTH SIDES OF ROADS. CONDUITS UNDER ROADS SHALL BE STEEL.
14. PROVIDE ALL EXCAVATION, TRENCHING AND BACKFILLING INCLUDING SHORING, SHEETING, PUMPING, GRADING, BARRICADING AND OTHER RELATED WORK NECESSARY FOR INSTALLATION OF ELECTRICAL WORK.
15. EXCAVATION SHALL BE PERFORMED ON AN UNCLASSIFIED BASIS AND SHALL INCLUDE THE REMOVAL OF MATERIALS ENCOUNTERED.
16. TRENCHES SHALL BE OF SUFFICIENT DEPTH TO ALLOW ADEQUATE COVER OVER RACEWAYS. BOTTOMS OF TRENCHES SHALL BE INSTRUMENT GRADED IN DIRECTION OF FLOW. EARTH SHALL BE SCOOPED OUT SO RACEWAYS WILL HAVE SOLID BEARINGS ON UNDISTURBED EARTH. WHERE RACEWAYS ARE INSTALLED IN FILLED GROUND CONCRETE ENVELOPE ENCASUREMENT SHALL SPAN FULL WIDTH OF TRENCH.
17. BACKFILL SHALL BE MADE WITH CLEAN EARTH FREE OF ROCKS, FROZEN EARTH, DEBRIS OR OTHER FOREIGN MATERIAL. DEPOSIT BACKFILL IN UNIFORM LAYERS NOT OVER 6" THICK. TAMP EACH LAYER BEFORE APPLYING NEXT LAYER. CINDERS IN BACKFILL ARE PROHIBITED.
18. EXCAVATED MATERIAL REMAINING AFTER THE BACKFILLING OPERATION SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
19. REPAIR STREETS, PAVEMENTS, LAWNS, CURBS AND OTHER FINISHED SURFACES DAMAGED BY EXCAVATION AND RESTORE SAME TO ORIGINAL CONDITION.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING EXISTING UNDERGROUND FACILITIES. HAND EXCAVATE AREAS OF CONFLICT WITH EXISTING UNDERGROUND PIPING AND OR CABLING. AREAS SHALL BE FIELD INSPECTED AND MARKED BY LICENSED AND INSURED LOCATING CONTRACTOR PRIOR TO COMMENCING WORK IN AREA.



**1 SITE ELECTRICAL PLAN**  
SCALE: 1" = 10' - 0"



**2 ELECTRIC CONDUIT TRENCH DETAIL**  
NOT TO SCALE

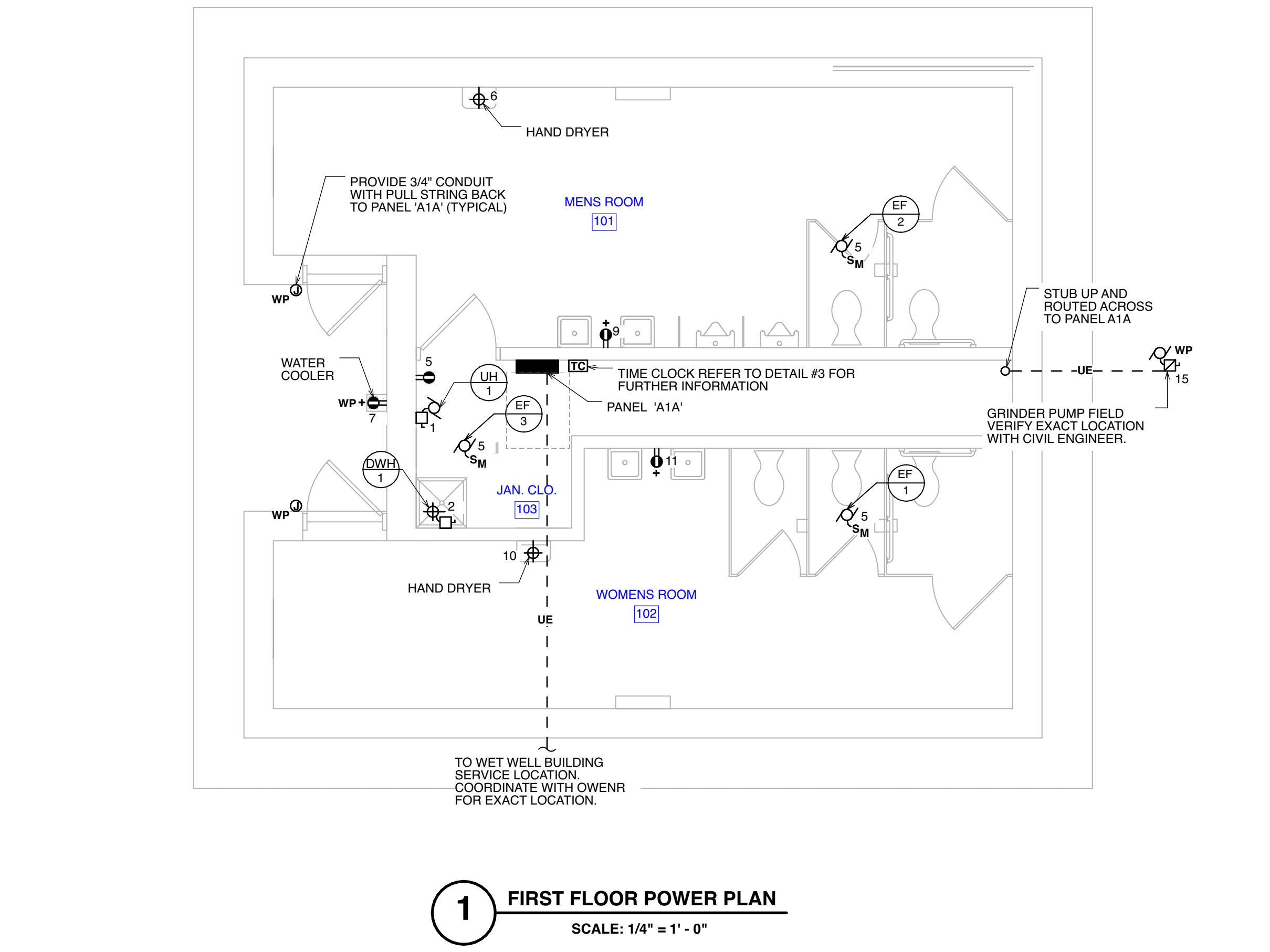
RE-BID DATE: 12/12/22

NO.	DATE	DESCRIPTION	REV'D BY
APPROVAL: PROJECT: <b>RESTROOM BUILDING FOR FASOLA PARK</b>			
12 SYCAMORE LN, DERPTFORD TOWNSHIP, NJ 08034			
Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: <b>SITE ELECTRICAL PLAN</b>	
SCALE: AS NOTED	DRAWING NO: <b>E-0.0</b>	DATE: 09/30/22	REV'D BY: JC
DATE: 09/30/22	SCALE: AS NOTED	DRAWING NO: <b>E-0.0</b>	REV'D BY: JC
DATE: 09/30/22	SCALE: AS NOTED	DRAWING NO: <b>E-0.0</b>	REV'D BY: JC
DATE: 09/30/22	SCALE: AS NOTED	DRAWING NO: <b>E-0.0</b>	REV'D BY: JC

### ELECTRICAL SPECIFICATIONS

- Contractor shall provide all labor, materials, tools, apparatus and equipment required to complete his work in accordance with the contract documents, codes, laws and ordinances, and accepted trade practices.
- The contractor by his acceptance of the contract guarantees that all work installed shall be free from all defects in workmanship and materials and that all apparatus furnished by him shall develop the capacities and characteristics specified. He further guarantees that if, during a period of one (1) year from the date of the certificate of completion and acceptance of the work, any such defects in workmanship, material or performance appear, such defects shall be remedied by him without cost to the owner. If the contractor fails to remedy the defects as outlined within a reasonable length of time, to be specified in a notice from the owner's authorized representative to the contractor, the owner will have such work done, and he will charge the cost to the contractor.
- The contractor shall visit the site before he submits his proposal. He shall examine all existing conditions which affect the work. The submission of the proposal shall be considered evidence that this requirement has been fulfilled. No extra payment will be allowed for additional work made necessary by the failure to visit the site.
- Electrical equipment shall be installed in a neat and workmanlike manner in accordance with latest and best practices of the trade. Only mechanics skilled in this type of work shall be employed and utilized by Contractor for this Division in the execution of this Work.
- The contract drawings are diagrammatic and indicate the general arrangement of all systems and work included in the contract. The contract drawings are not to be taken literally. The architectural contract drawings and details together with the other contract documents shall be examined for all dimensional information.
- The contractor shall, without additional costs to the owner, make reasonable modifications in the layout of his work in order to prevent conflicts with the work of other trades or for the proper execution of his work.
- The contractor shall provide and maintain in good order a complete set of blueprints prints of the contract drawings. As the work progresses, the actual location of all work shall be clearly recorded, including all changes to the contract and equipment size and type. These prints shall be available at the site for inspection at all times. At the conclusion of the work, the contractor shall, at his own expense, obtain a set of reproducible of the original contract drawings, and utilizing the symbols on the contract drawings, shall incorporate all "as built" data in a clearly legible and reproducible manner. All schedules shall be corrected to indicate "as built" conditions. All revisions shall be incorporated on these reproducible including all sketches and written directives. All concealed equipment, mainfeeders, pull and junction boxes, etc. shall be dimensionally located from the building structure. As a condition for acceptance of the work, the "as built" reproducible and one (1) set of prints shall be signed, dated and delivered to the engineer.
- The contractor shall supply all labor required to perform all work which may be claimed by trade organizations within his jurisdiction. All work shall be performed without any additional cost to the owner regardless of which section of the contract documents the work is described. The contractor shall be responsible to verify with all local organizations the extent of any collective bargaining agreements and/or any jurisdictional decisions rendered regarding disputes between the respective trades, and provide and install his work in accordance with the accepted trade practice in the area.
- The entire installation shall conform with all pertinent codes and regulations of the local, municipal, county, state, and federal authorities, The National Board of Fire Underwriters, the codes of the International Codes Council, the codes of the National Fire Protective Association, the New Jersey Uniform Construction Codes, and all other regulatory bodies having jurisdiction. All materials and equipment shall bear the stamps or seals of the NFPA, ASME, NEMA, IEEE, UL, and other recognized industry regulatory groups.
- The contractor shall give all necessary notices, obtain all permits, pay all governmental taxes, fees and other costs in connection with his work. He shall file all necessary plans, and prepare all other documents including additional detailed plans that are required for compliance with all applicable laws, ordinances, rules and regulations.
- Before starting any work under this Contract, file for inspection with the Middle Department Inspection Agency or other certified Agency. Upon completion of the work, furnish Electrical Certificates from said Agency for all Electrical equipment and systems installed or furnished and installed as part of the Contract.
- The contractor shall at all times keep the premises free from the accumulation of waste materials or rubbish caused by his employees or work. At the completion of the work, he shall remove all superfluous materials, equipment and debris resulting from the work.
- All feeder wiring shall be soft drawn copper of 98% conductivity, installed in protective metallic raceways or cable assemblies. All wiring shall be copper, thermoplastic covered insulated Type 75° C, THW or 90° C, Type THHN, 600-volt rating. Wire No. 8 AWG and smaller shall be solid. Wire larger than No. 8 shall be stranded.
- All wiring shall be insulated copper conductors installed in code conforming raceways or cable assemblies.
- All wiring shall be run concealed wherever possible. All exposed conduit shall be EMT or rigid steel as required. Flexible conduit shall be smooth lightweight wall chrome from above ceiling shall be structurally secured and supported. Cable assemblies shall be permitted exposed for final connections to Mechanical and Plumbing equipment and shall be limited to a feet total length, routing shall not interfere with equipment workspace.
- Where conductors connect directly to equipment, the insulation temperature rating of the conductor shall meet or exceed the equipment temperature rating.
- Color code conductors to designate neutral conductor and phases. Color coding shall conform with existing building standard.
- Exercise great care in maintaining a uniform and consistent arrangement of phase conductors on all systems. Throughout the entire wiring systems, each phase conductor must always be in the same physical position with respect to the other three wires at equipment terminals.
- Grounding shall comply with Article 250 of NEC and to approval of local Underwriters inspection authorities.
- Panelboards shall be dead front type with plated aluminum bus, bolt-on breakers, fully rated neutral bus and grounding bus block. Cabinet shall be code grade painted steel, minimum 3/16" thick. Cover shall have door and trim and adjustable clamps, gray baked finish, and tumblers type key lock. "Spaces" shall be fully bussed and drilled, ready for breaker installation.
- Contractor shall provide typical updated panel schedules at completion of project for all panels effected by scope of work.
- Circuit Breakers shall be molded case, bolted, thermal magnetic trip in each pole, enclosure-constructed to carry full rated load at 40°C, trip-free handles shall clearly indicate trip, and self condition, quick-make and quick-break action. Lugs approved for copper and aluminum conductors and compression type. Ground Fault type breakers shall be provided with thermal and magnetic protection, UL Class A, 5 ampere ground fault sensitivity, where required. Circuit breakers used as switches in 120 volt circuits leading incandescent, fluorescent, and/or HID fixtures shall be approved for such use and marked "SWD" per NEC. Circuit breakers serving Heating and Air Conditioning equipment shall be HACR rated.
- All labor, materials and equipment required to provide electric power to meet the requirements for heating, ventilating, air-conditioning and plumbing systems. Fully coordinate installation of electrical wiring and equipment with installation of electrical operated mechanical equipment provided by the Mechanical and Plumbing Contractors. Install disconnect switches, motor starters, and control transformers furnished by Mechanical and Plumbing Contractors. Provide final electrical terminations. All internal equipment wiring shall be by manufacturer.
- Test equipment, including panelboards and all other equipment and wiring for unenergized grounds, short circuits, open circuits, continuity, current leakage, and that equipment will operate as specified. Test feeders for insulation resistance, for load balance of the final installation, and for overall operation of systems. Furnish labor and material required for making such tests and make corrections necessary to balance the load and to obtain proper operation.
- Where existing facilities are being altered, disconnect and remove or relocate all existing electrical work that interferes with or is necessary because of new construction as specified, shown or required.
- Perform alterations and additions to present electrical systems with a minimum interruption in the operation of these systems. Obtain written clearance from Owner for such interruptions and schedule same at whatever time specified in writing by Owner.
- Perform alteration of utilities and services in accordance with the rules, regulations and requirements of the involved utility companies and regulatory agencies having jurisdiction.
- Arrange and pay for the relocation, disconnection or removal of existing utilities and services where shown and where such utilities or services interfere with new construction, whether shown or not. Provide all excavation, backfilling and paving, manholes, and cables required by such work.
- Coordinate with Power Company, inform them of the proposed work; obtain their approval before beginning work; comply with their requirements for details of installation and materials used.
- Verify locations of existing underground services in the area of construction. Verify existing locations of underground electrical services, natural gas piping, water services and sanitary piping, which may affect work.

- ### DRAWING NOTES
- FIELD VERIFY LOCATION OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
  - COORDINATE INSTALLATION OF HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR. INSTALL AND WIRE DISCONNECT SWITCHES FURNISHED BY MECHANICAL CONTRACTOR.
  - MOTORIZED DAMPERS REFER TO MECHANICAL PLAN FOR EXACT LOCATION. INTERCONNECT TO LOCAL AHU AS DIRECTED BY M.C.
  - FIELD VERIFY EXACT LOCATIONS OF ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
  - UNLESS OTHERWISE NOTED, ALL POWER SHALL BE CIRCUITED TO PANEL 'A1A'.
  - UNLESS OTHERWISE NOTED ALL LIGHTING SHALL BE CIRCUITED TO PANEL 'A1A'.
  - EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE OF LOCAL LIGHTING CONTROL.
  - COORDINATE ALL LOW VOLTAGE WORK WITH OWNER AND OWNERS LOW VOLTAGE VENDOR. ELECTRICAL CONTRACTORS SHALL FURNISH AND INSTALL ALL BACKBOARDS WITH CONDUIT AND PULL STRING TO ACCESSIBLE CEILING SPACE.



### LIGHTING FIXTURE SCHEDULE

Type	Manufacturer	Catalog No.	No.	Watts	Type	Volts	Mounting	Remarks
A1	CertoLux	VRSE-3556 48LED 8 35 048L UNV	53		LED	120V	Surface	Surface mounted vandal resistant fixture.
N1	Performance IN Lighting	SH113.5-X-35K-120V-NA	13.5		LED	120V	Surface	Surface mounted wall pack. Color selected by Architect.
E1	Eventite	TEBL3W	2	3	LED	120/9.6VDC	Surface	Indoor battery pack w/ dual 9.6V/3W LED lighting heads, nickel-cadmium battery, white housing.
E2	Eventite	PRWLED2-MV	2	1	LED	9.6VDC	Surface	Indoor battery pack w/ dual 9.6V/3W LED lighting heads, nickel-cadmium battery, white housing.
E3	Eventite	PRWLED2-MV	2	1	LED	9.6VDC	Surface	Outdoor dual remote heads 9.6V/2W LED lighting heads.
X1	Eventite	TLX-EM-RU-W	1	1	LED	120VAC / 3.6VDC	As Indicated	LED exit sign, red letters, number of faces and directional arrows as indicated on plan or required by installed location, integral battery to provide 90 minutes of illumination.

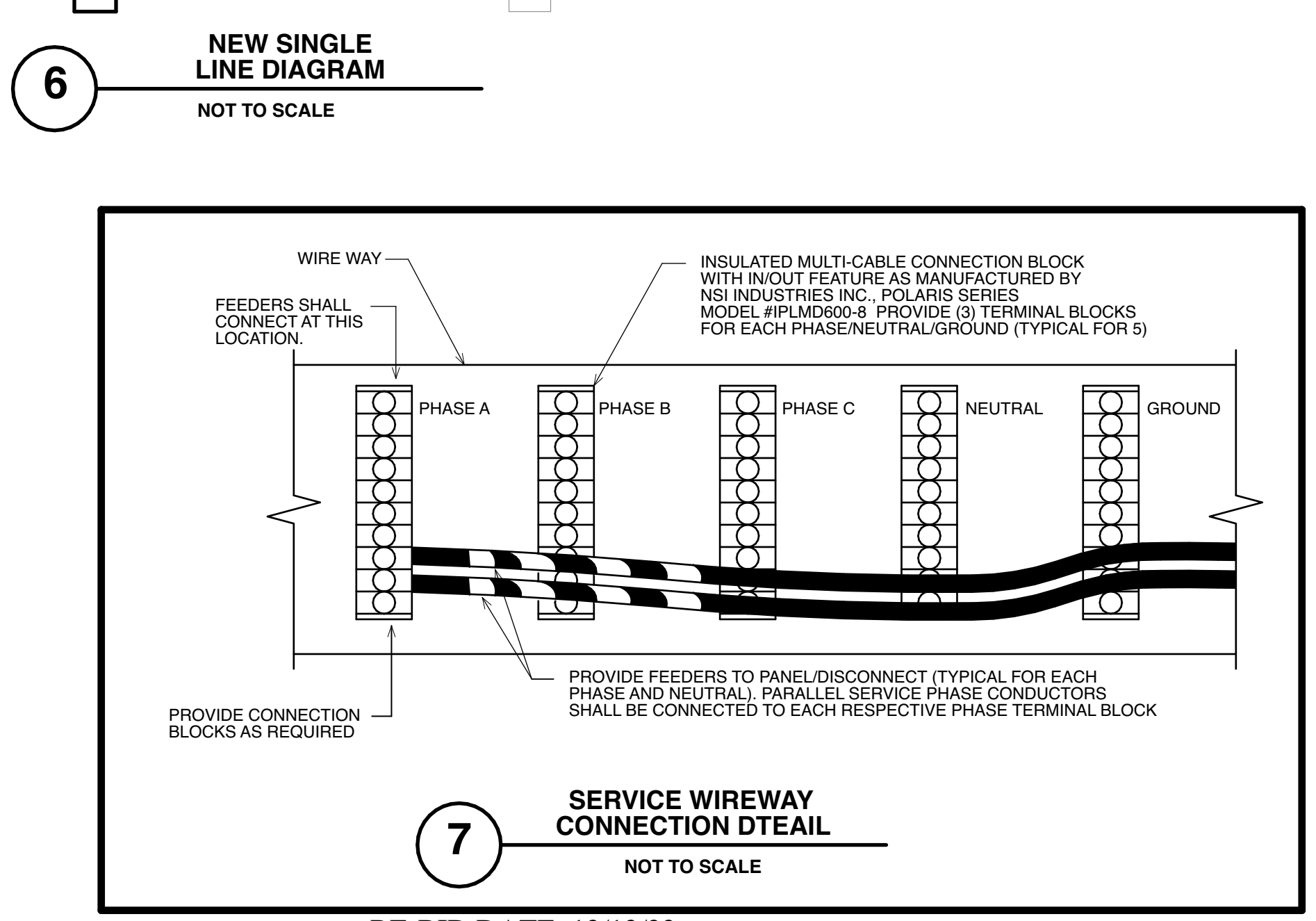
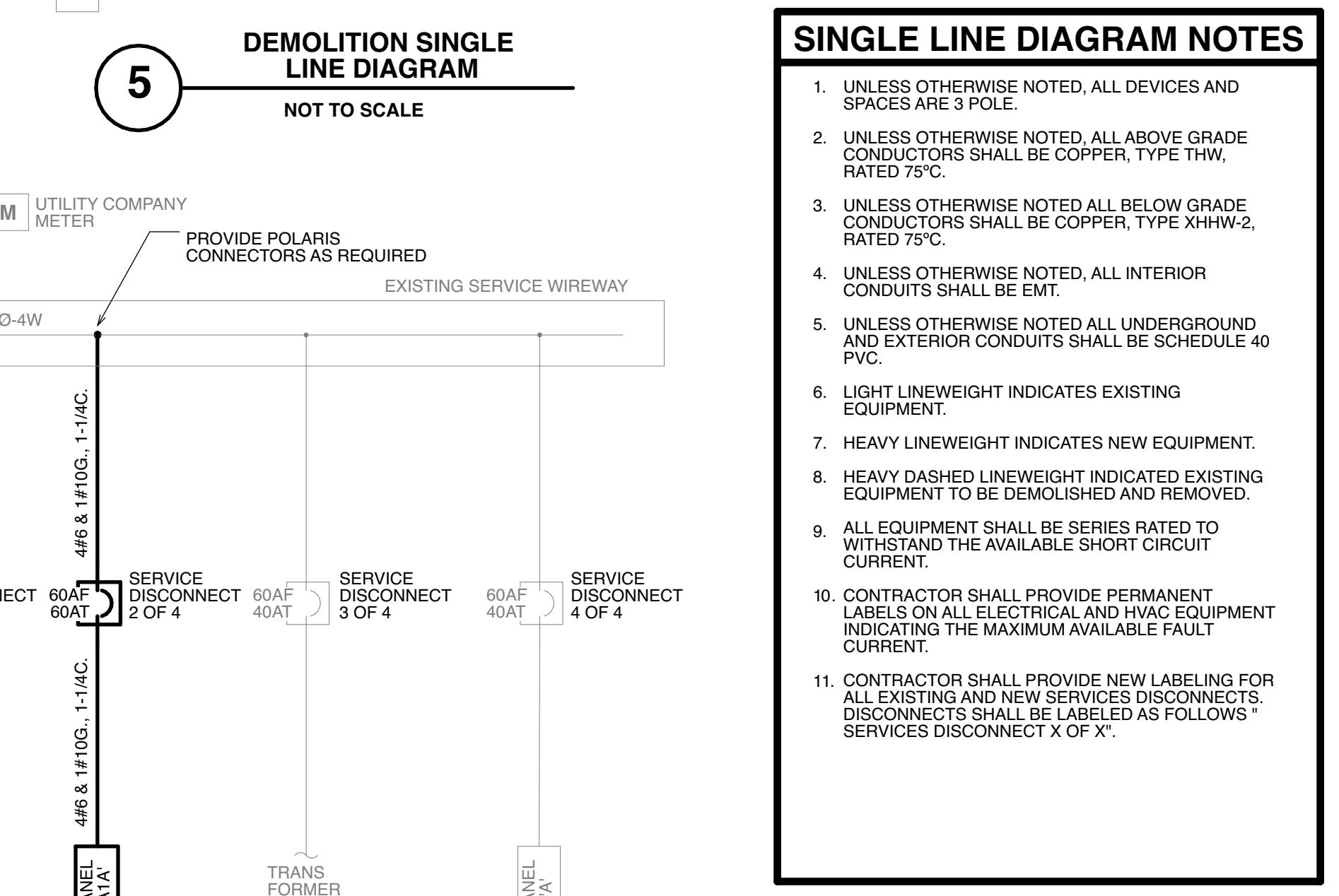
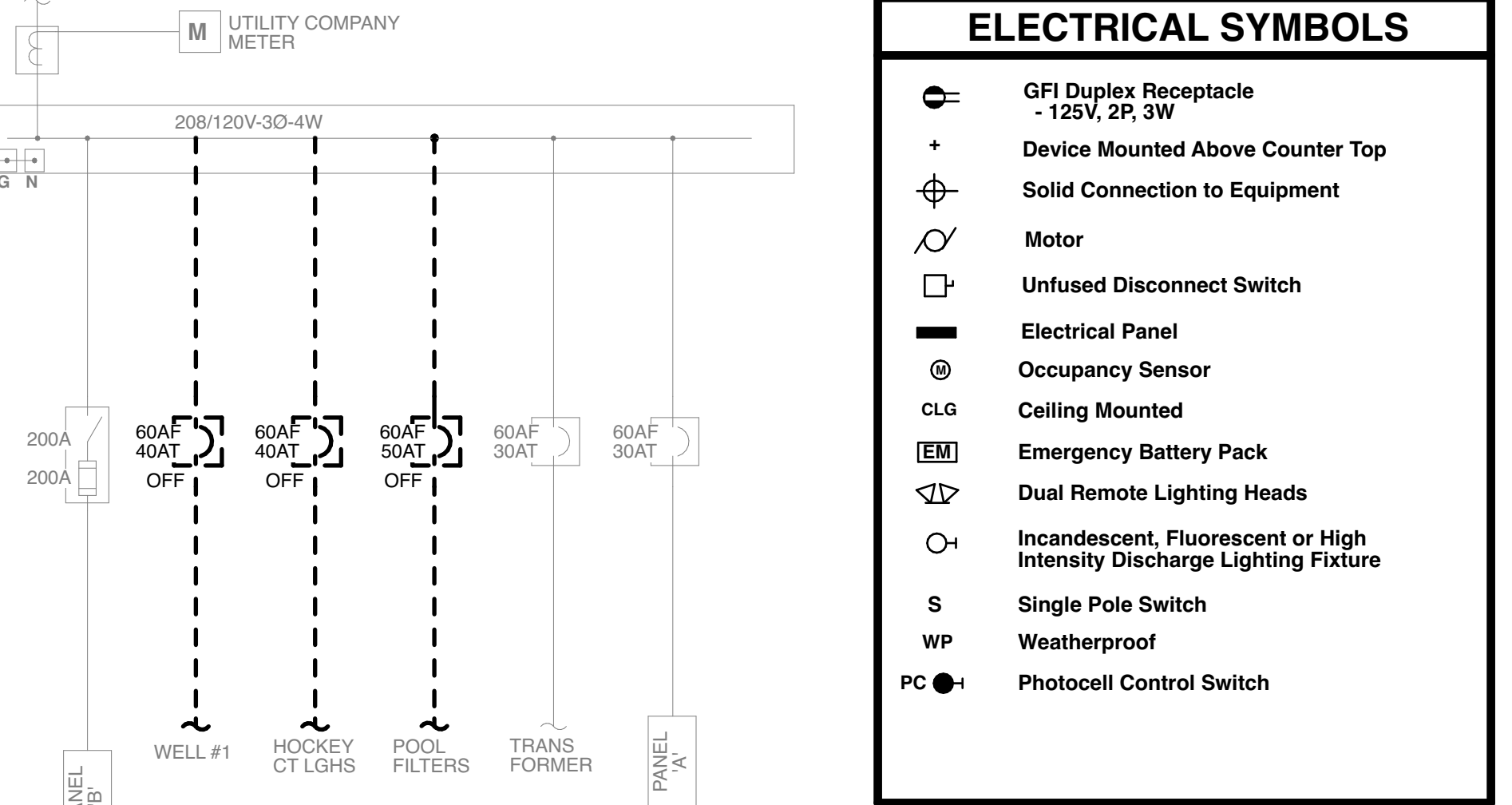
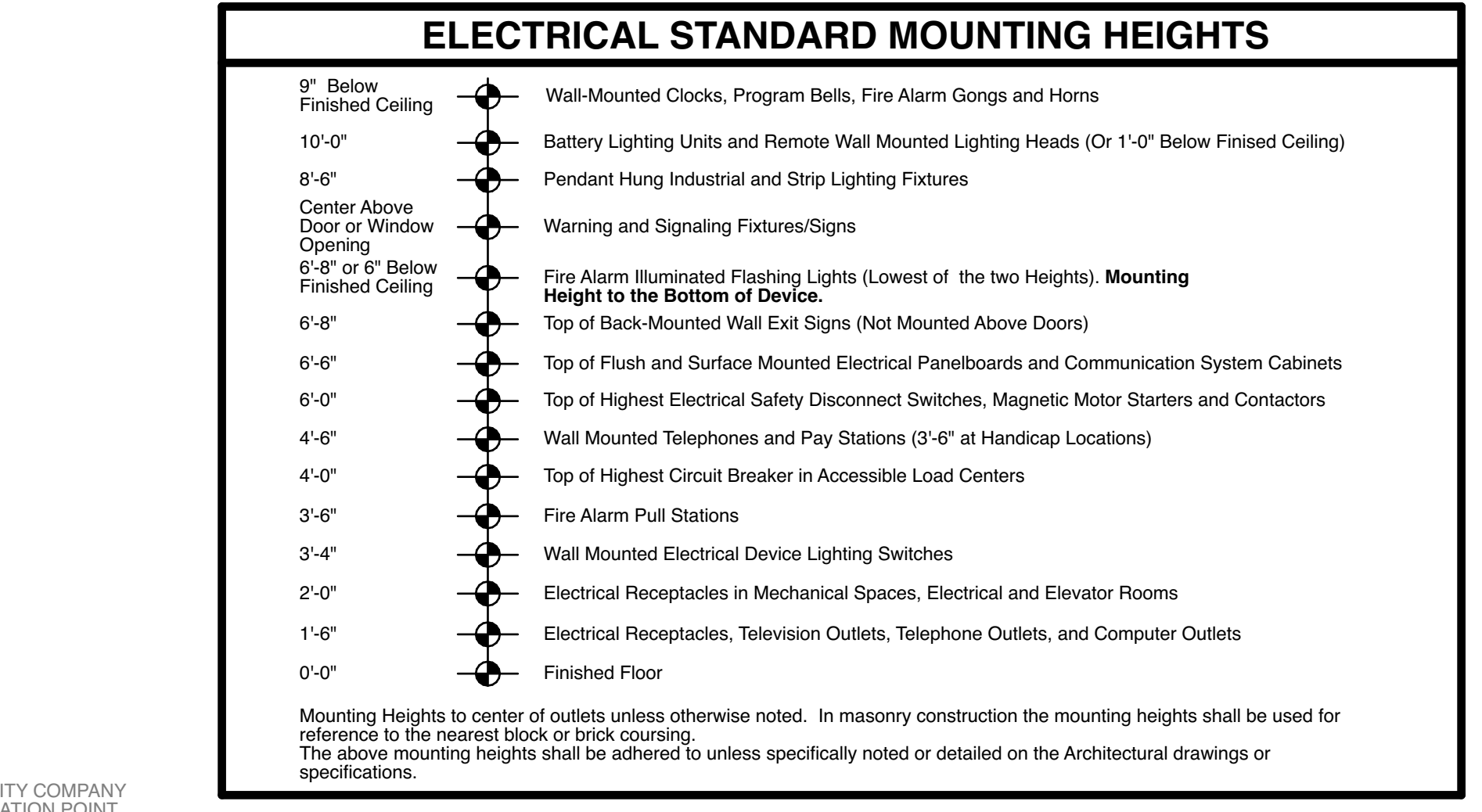
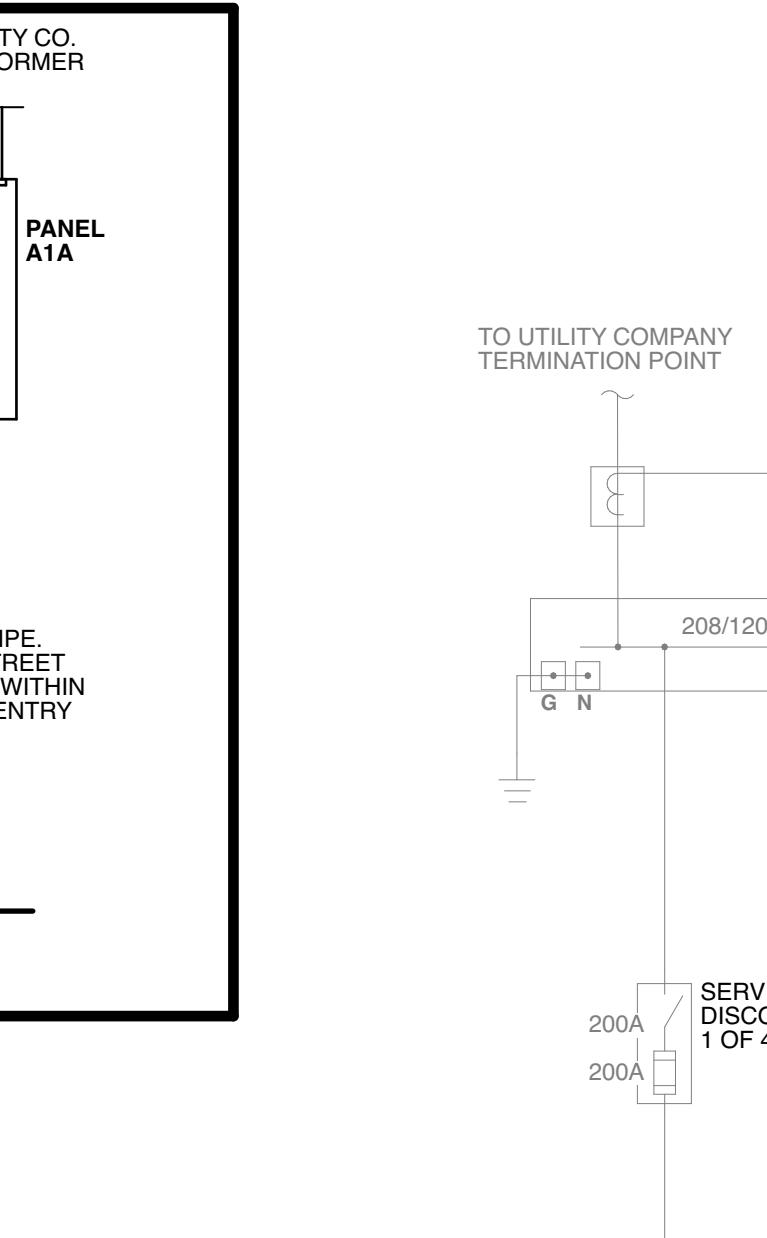
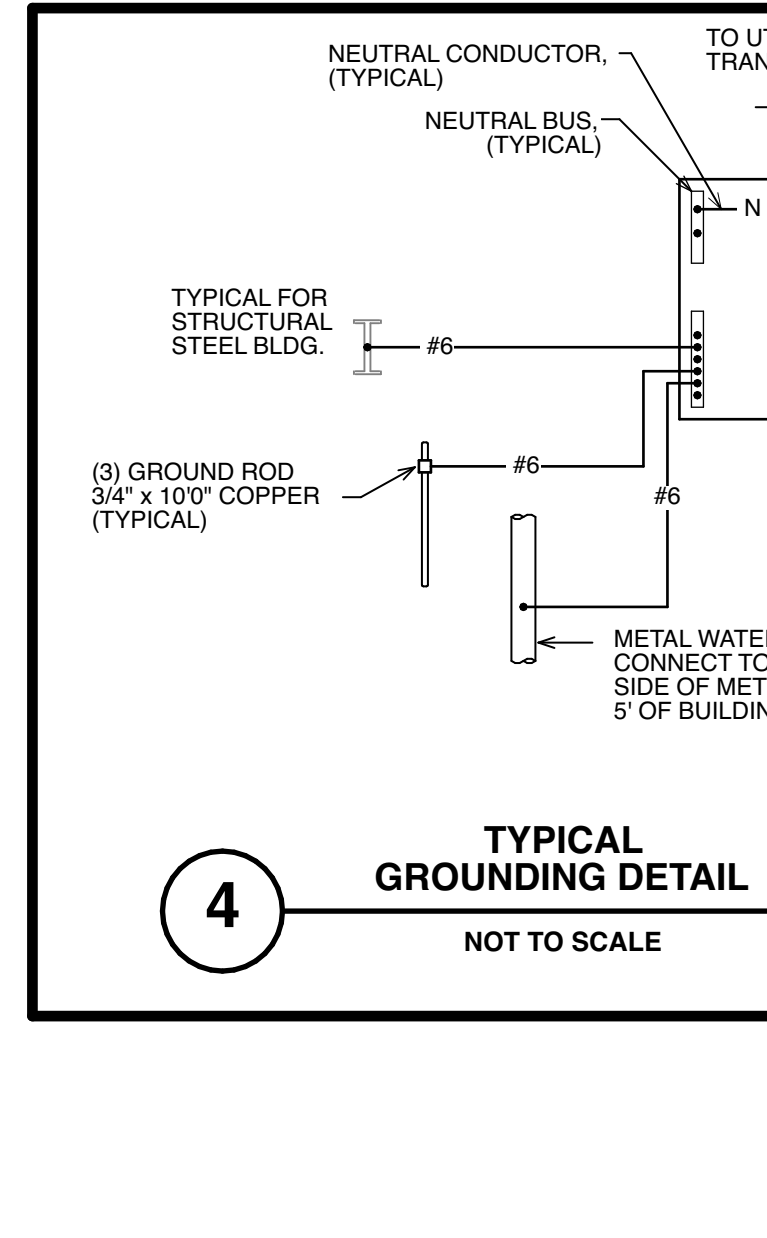
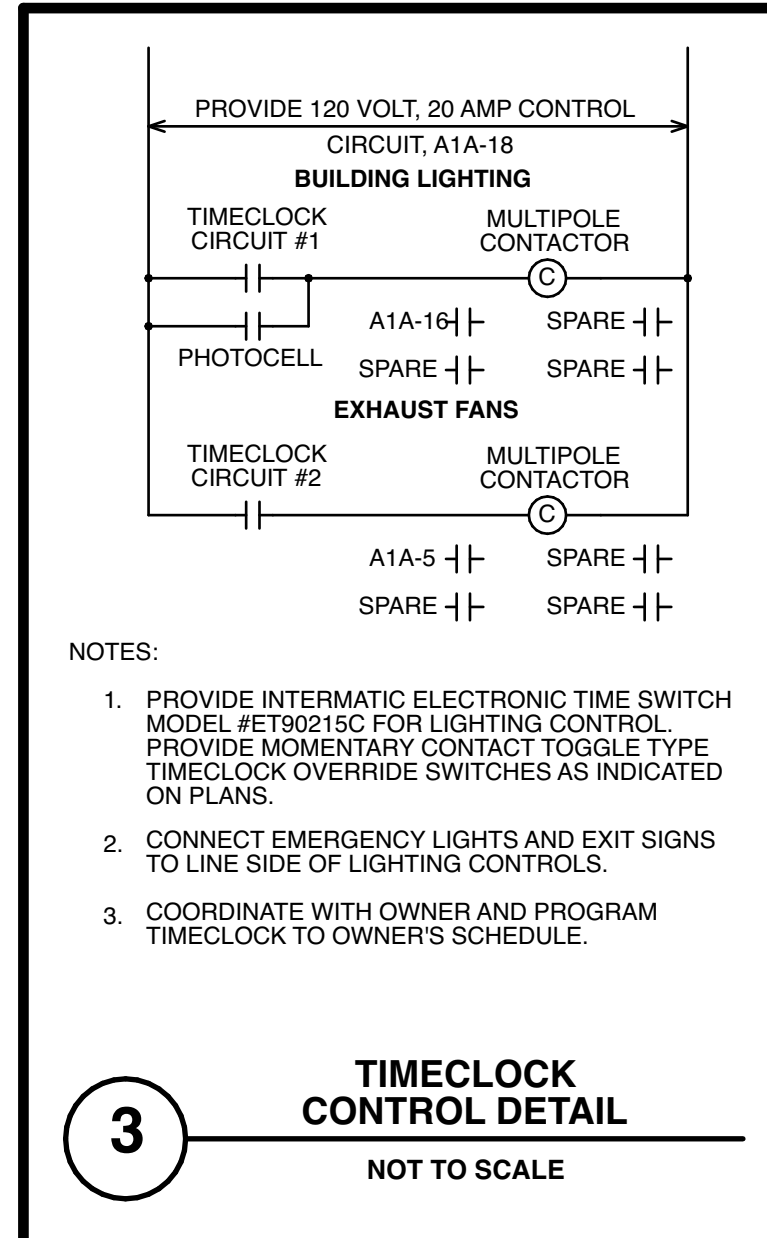
Notes:  
 1. In addition to those indicated above, refer to Architectural drawings and provide all fixtures specified.  
 2. All fixtures shall be provided with lamping.  
 3. Confirm final fixture options and color selection with Architect prior to purchase.  
 4. Refer to specifications for detailed requirements for construction, handling, ballasts, lamps, etc.  
 5. Coordinate fixture location and mounting requirements with Architectural drawings and details.  
 6. Refer to Architectural reflected ceiling plans for ceiling types and conditions affecting mounting and installation of lighting fixtures.  
 7. Coordinate exact fixture color temperature with owner and architect prior to purchase.

### PANEL A1A

Cir. No.	Cir. Bkr.	Wire Size	Description	60 A MCB 10 KAIC			24 POLE			208/120V - 3Ø - 4W		
				A	B	C	A	B	C	A	B	C
1	20/2	#12	UHF-1	1.5	1.5							
5	20/1	#12	EF-1, 2, 3	0.5	0.3		0.7	0.7				
9	20/1	#12	Waters Cooler	0.5	0.2		0.7					
9	20/1	#12	Womens Hand Dryer									
11	20/1	#12	Womens Hand Dryer		0.2							
13	20/1	#12	Space				0.4	0.1				
18	15/3	#12	Grinder Pump				0.9					
19	-	-	Space		0.9	0.9						
21	20/1	-	Space									22
23	20/1	-	Space									24
<b>Total</b>				2.9	2.6	1.4	3.9	3.6	1.8	<b>Total</b>		

Options and Accessories (X) Indicates Selection:  
 Feed Through Lugs  
 Surface Mount Lug  
 Split Bus  
 Contactor Controlled  
 Top  
 Bottom

Legend:  
 Recessed  
 Surface  
 Double Panel  
 Ground Bus



RE-BID DATE: 12/12/22

NO.	DATE	DESCRIPTION	REV'D BY

**RESTROOM BUILDING FOR FASOLA PARK**  
12 SYCAMORE LN, DERPTFORD TOWNSHIP, NJ 08096

**TITLE: FIRST FLOOR POWER AND LIGHTING PLAN**

Joseph F. McKernan Jr., Architects & Associates  
100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034

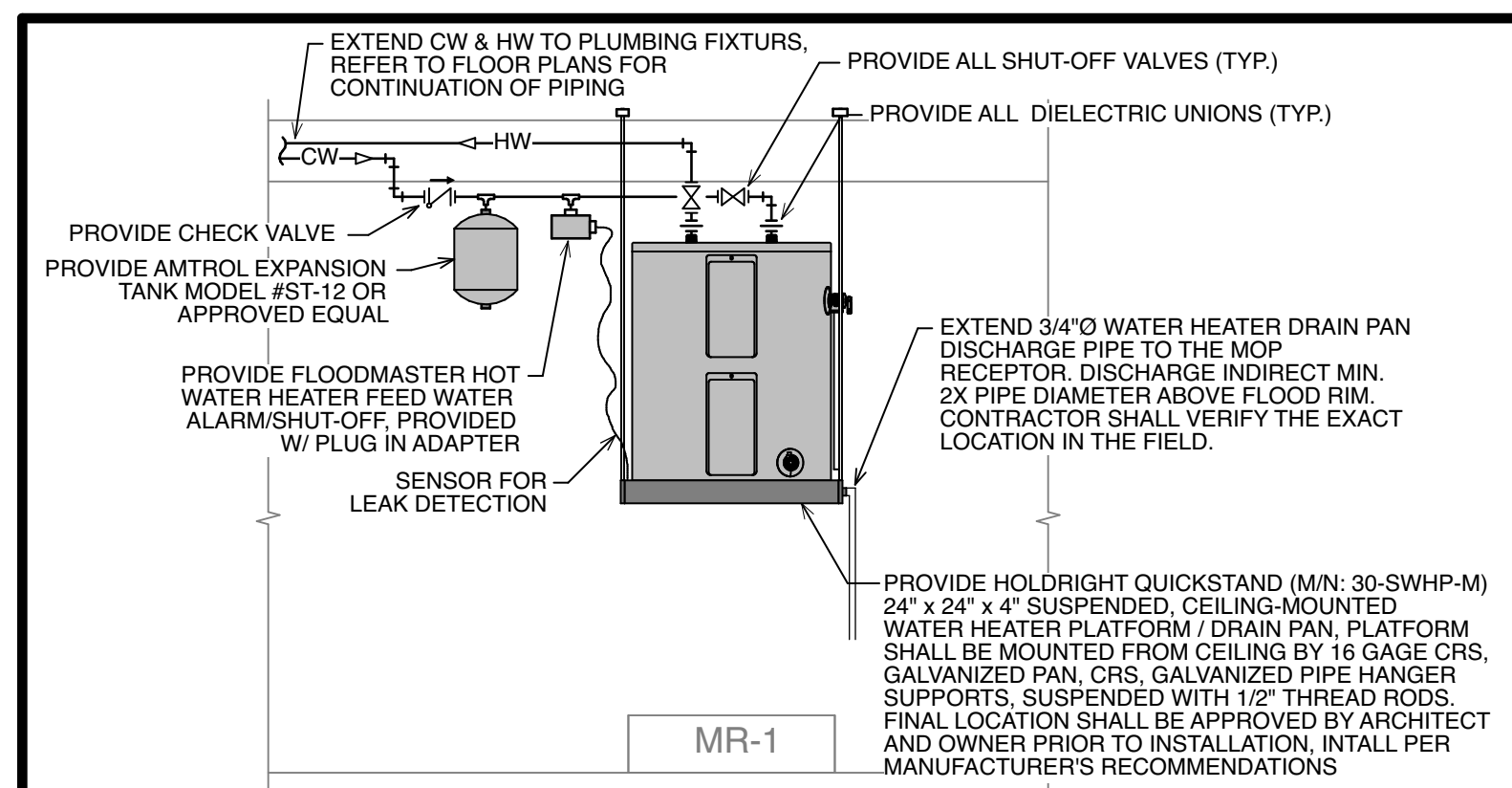
SCALE: AS NOTED DRAWING NO: E-1.0

DATE: 09/03/22  
REV'D BY: JC  
DRAWN BY: JC

JERREY E. HOLSTEIN  
16 NORTH NEW BRUNSWICK AVENUE  
SPRING HOUSE, NJ 07081



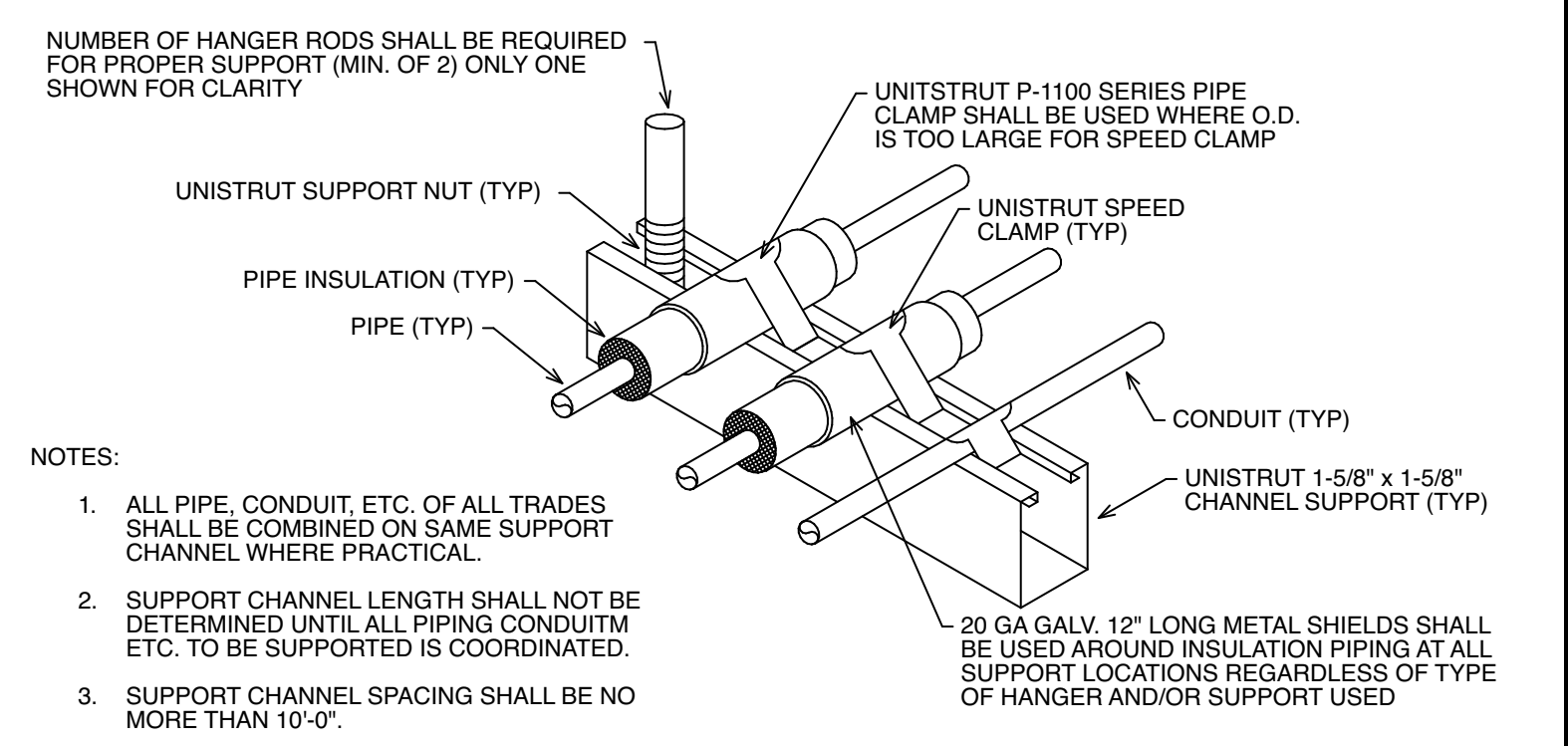




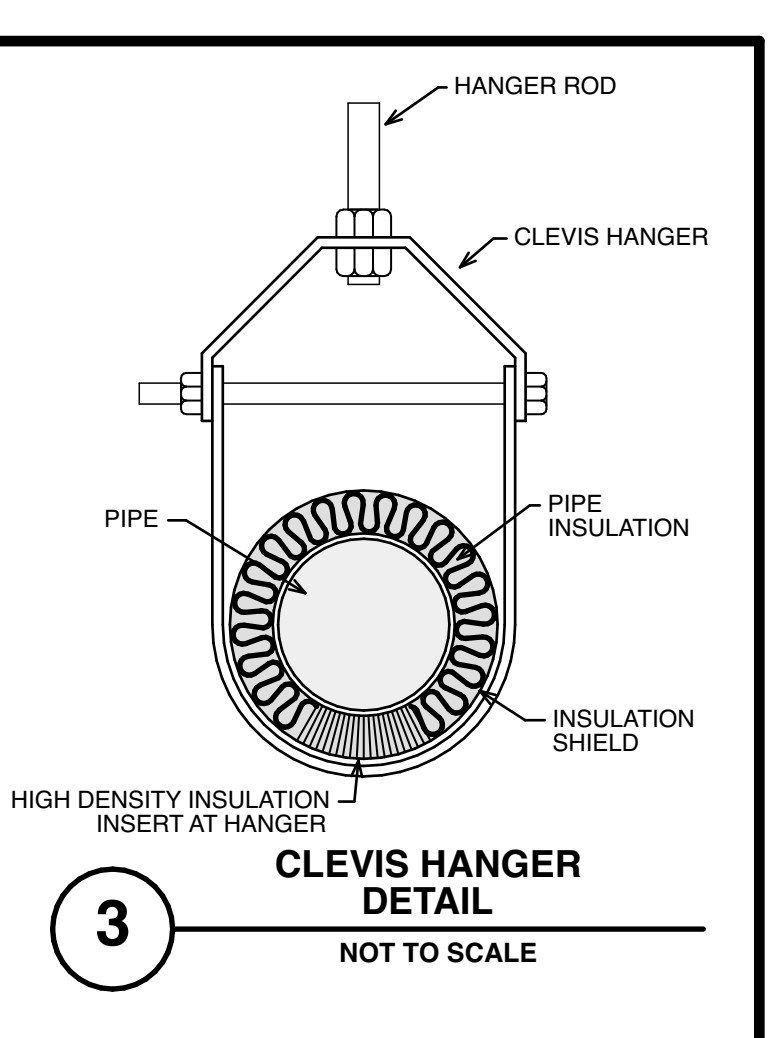
**1 WALL MOUNTED WATER HEATER (ABOVE MR-1)**  
NOT TO SCALE

**DISCLAIMER**

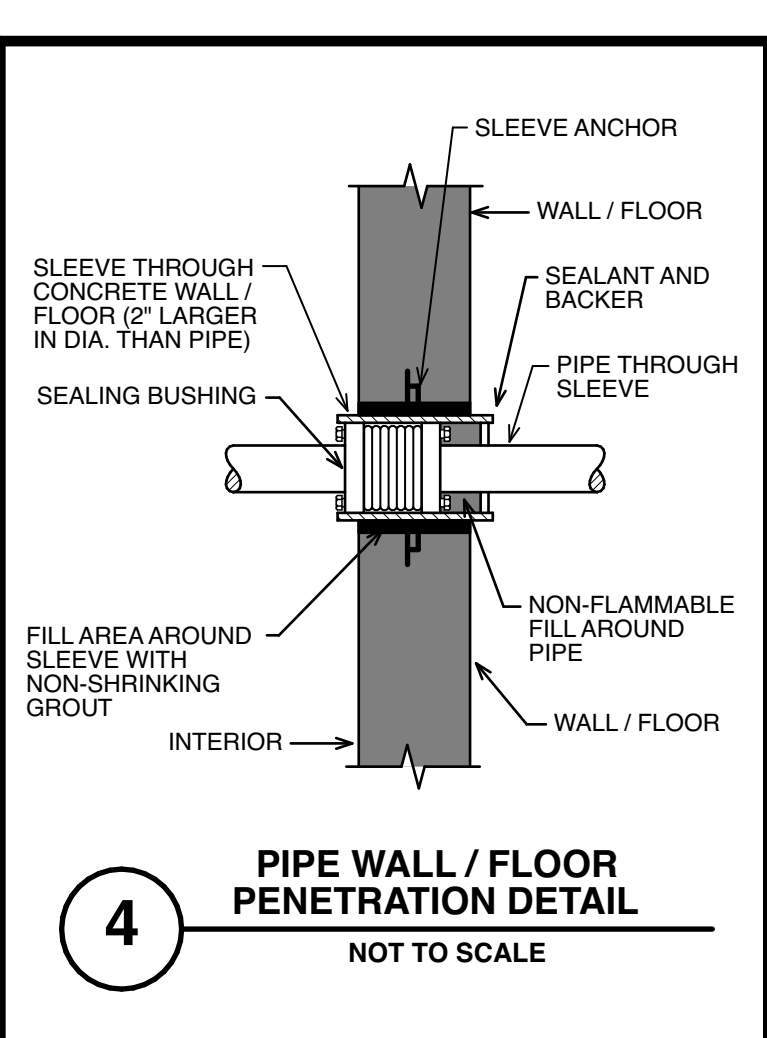
THE DESIGN INTENTION FOR THIS PROJECT IS TO WINTERIZE THE BUILDING AND ITS CONTENTS EACH SEASON. THE OWNER HAS ASSUMED RESPONSIBILITY TO DRAIN DOWN THE ENTIRE BUILDING'S PLUMBING SYSTEM AND REMOVE ANY OTHER ASSOCIATED ITEMS THAT COULD POTENTIALLY FREEZE WITHIN THE BUILDING. HWI HOLDS NO RESPONSIBILITY FOR FREEZE PROTECTION OF THIS BUILDING OR ITS CONTENT.



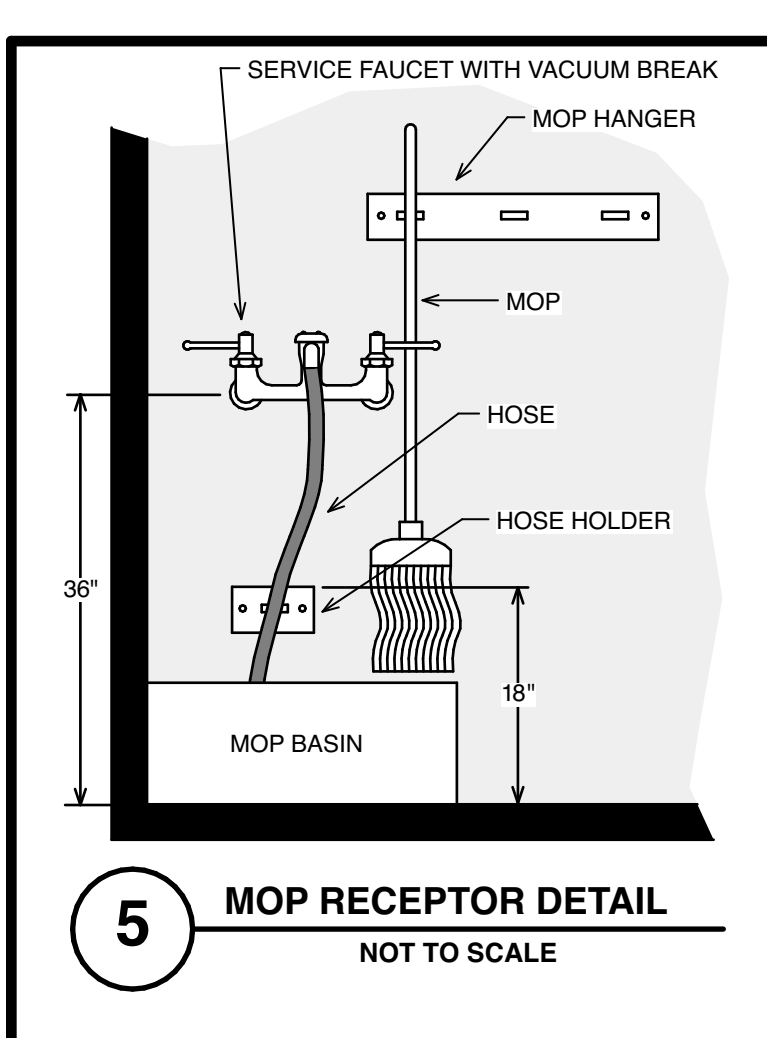
**2 PIPING SUPPORT ABOVE CEILING DETAIL**  
NOT TO SCALE



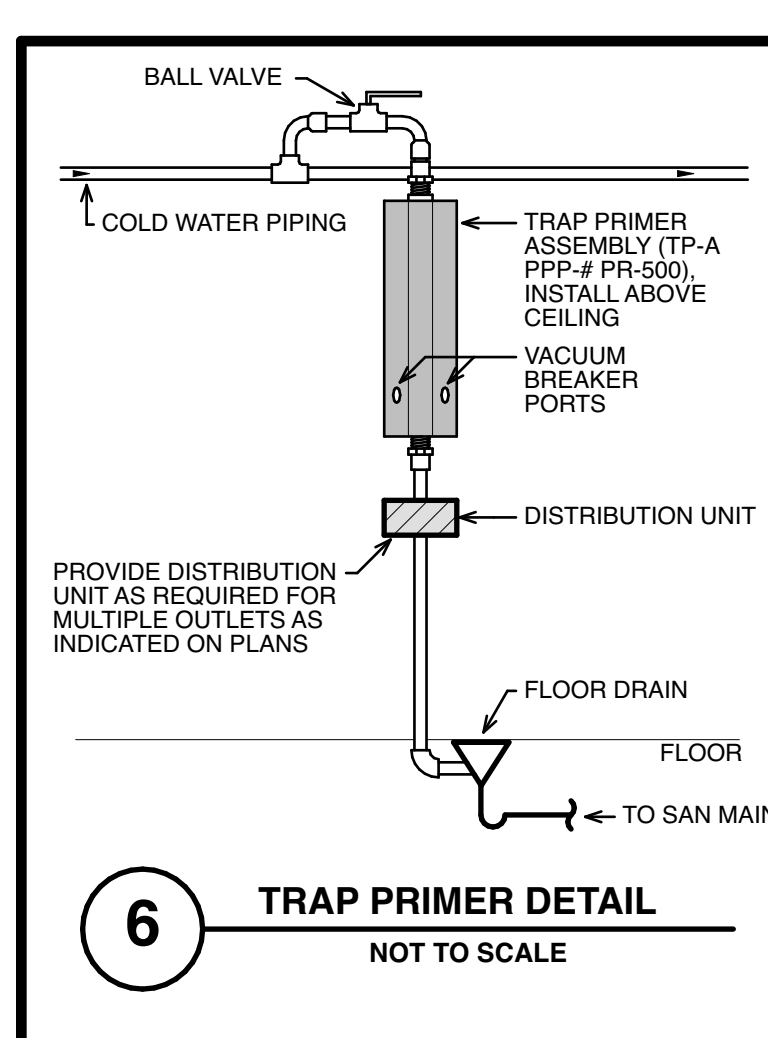
**3 CLEVIS HANGER DETAIL**  
NOT TO SCALE



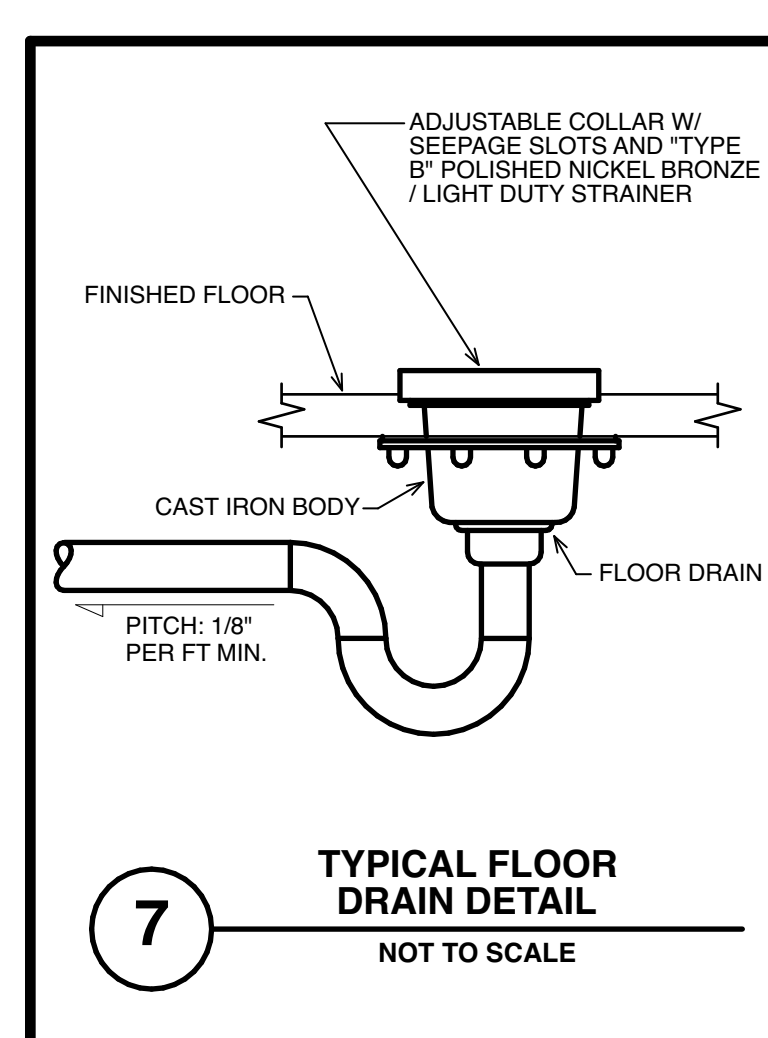
**4 PIPE WALL / FLOOR PENETRATION DETAIL**  
NOT TO SCALE



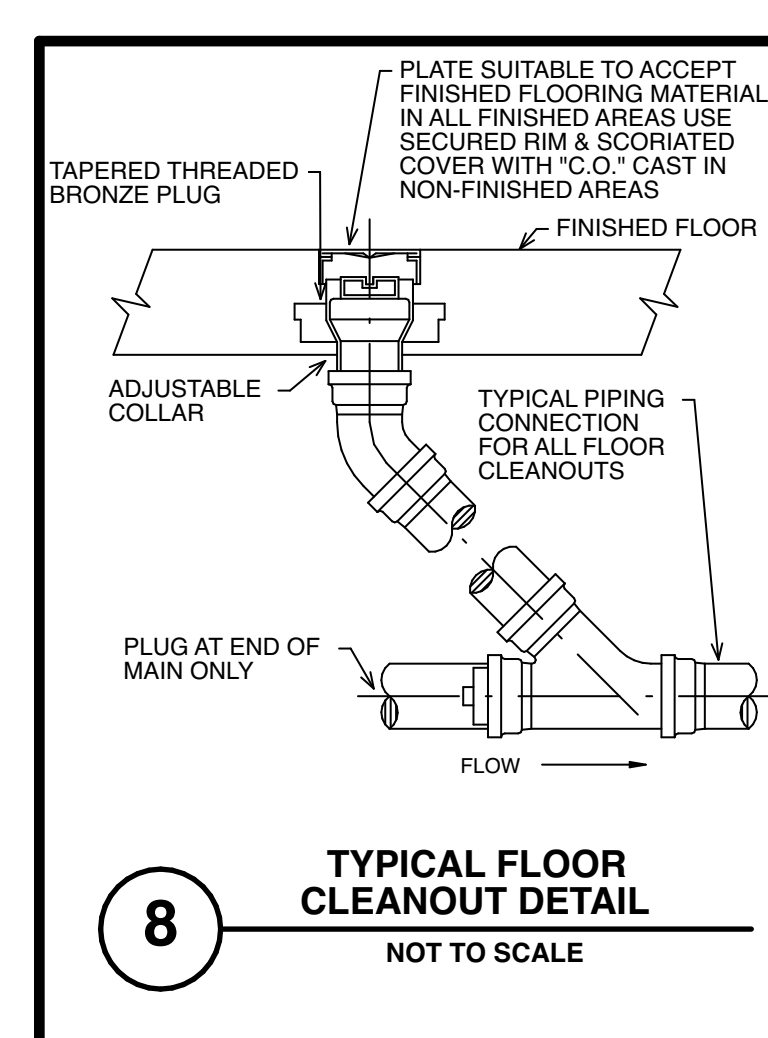
**5 MOP RECEPTOR DETAIL**  
NOT TO SCALE



**6 TRAP PRIMER DETAIL**  
NOT TO SCALE



**7 TYPICAL FLOOR DRAIN DETAIL**  
NOT TO SCALE



**8 TYPICAL FLOOR CLEANOUT DETAIL**  
NOT TO SCALE

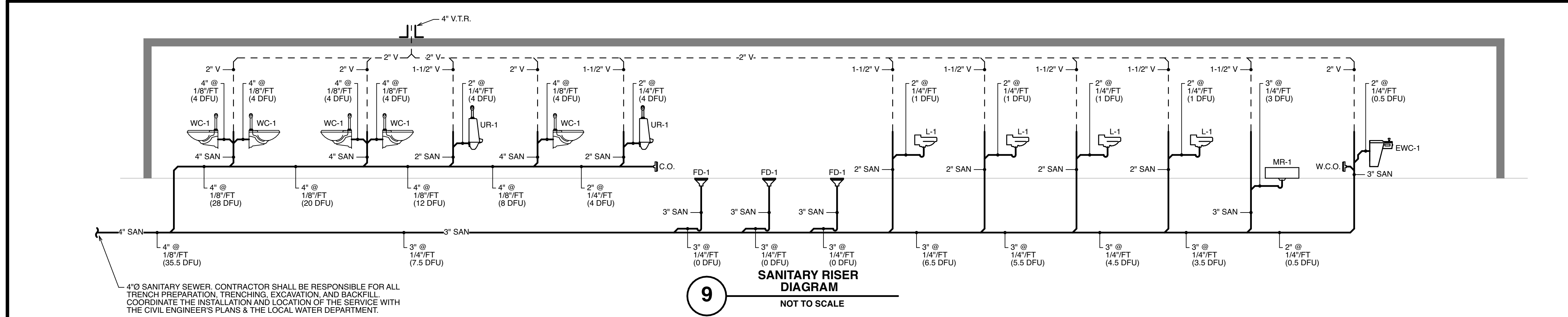
**PLUMBING DRAWING NOTES**

**GENERAL WORK:**

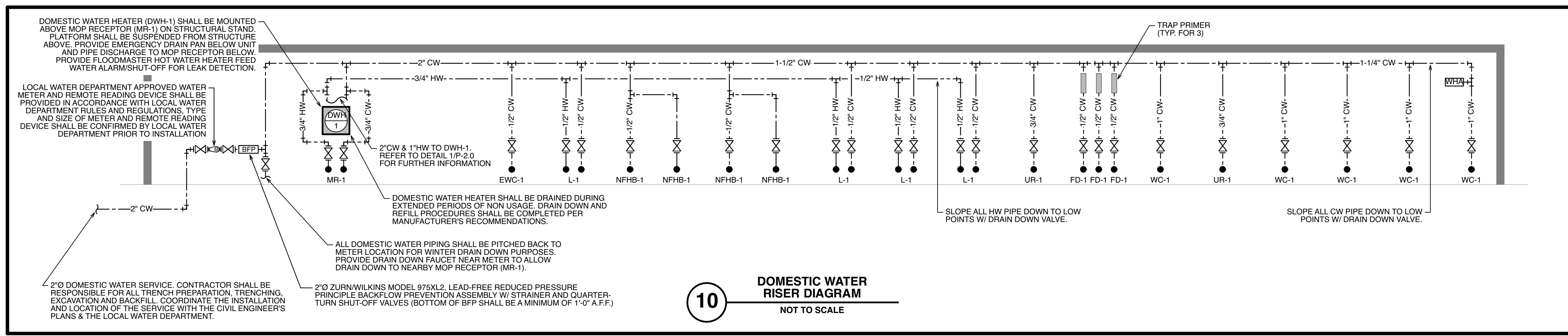
- The Contractor shall provide all labor, materials, tools, apparatus and equipment required to complete his work in accordance with the contract documents, codes, laws and ordinances and accepted trade procedures.
- In preparing his estimate, the Contractor shall review all of the contract documents including those of the other trades in order to acquaint himself with existing and related conditions that may, will, or could affect his work. He shall be experienced, skilled and knowledgeable with this type of construction and shall be expert and proficient in the preparation of estimates and the comprehension, implementation and interpretation of contract documents such as those prepared for this project.
- The Contractor by his acceptance of the contract guarantees that all work installed shall be free from all defects in workmanship and materials and that all apparatus furnished by him shall develop the capacities and characteristics specified. He further guarantees that if, during a period of one (1) year from the date of certificate of completion and acceptance of the work, any such defects in workmanship, material or performance appear, such defects shall be remedied by him without cost to the Owner. If the Contractor fails to remedy the defects as outlined within a reasonable length of time to be specified in a notice from the Owner's authorized representative to the Contractor, the Owner will have such work done and he will charge the cost to the Contractor.
- The Contractor shall visit the site before he submits his proposal. He shall examine all existing conditions which affect the work. The submission of the proposal shall be considered evidence that this requirement has been fulfilled. No extra payment will be allowed for additional work made necessary by the failure to visit the site.
- Plumbing work shall be installed in a neat and workmanlike manner in accordance with latest and best practices of the trade. Only mechanics skilled in this type of work shall be employed and utilized by Contractor for this Division in the execution of this work.
- The contract drawings are diagrammatic and indicate the general arrangement of all systems and work included in the contract. The contract drawings are not to be scaled. The architectural contract drawings and details together with the other contract documents shall be examined for all dimensional information.
- The Contractor shall follow the contract drawings in laying out his work, and he shall also check the contract drawings of the other trades to verify spaces in which his work shall be provided.
- The Contractor shall, without additional costs to the Owner, make reasonable modifications in the layout of his work in order to prevent conflicts with the work of other trades or for the proper execution of his work.
- The Contractor shall supply all labor required to perform all work which may be claimed by trade organizations within his jurisdiction. All work shall be performed without any additional cost to the Owner regardless of which section of the contract documents the work is included in. The Contractor shall be responsible to verify that all organizations the extent of any collective bargaining agreements and/or any jurisdictional decisions rendered regarding disputes between the respective trades, and provide and install his work in accordance with the accepted trade practice in the area.
- The entire installation shall conform with all pertinent codes and regulations of the local, municipal, county, state and federal authorities, The National Board of Fire Underwriters Building Code, the 2018 National Standard Plumbing Code, the National Fire Protection Association and all other regulatory bodies having jurisdiction. All materials and equipment shall be stamped or seals in a clearly legible and reproducible manner. All work shall be located to avoid conflicts with other work and provide adequate clearance for architectural design, proper operation, adjustments, component service and provide a minimum 2" clearance between all piping and other work.
- The Contractor shall give all necessary notices, obtain all permits, pay all governmental taxes, fees and other costs in connection with his work. He shall file all necessary plans, and prepare all other documents including additional detailed plans that are required for compliance with all applicable laws, ordinances, rules and regulations.
- The Contractor shall coordinate with the General Contractor and locate all required cutting and patching and the like required by the installation of the plumbing work.
- All work shall be installed in strict accordance with the equipment manufacturer's recommendations and requirements. All systems are to be tested, adjusted and balanced to provide performance as indicated on the drawings. Test and adjust all safety controls.
- Coordinate to assure that all work of all trades will be concealed within the walls and ceiling construction and without the need to reduce ceiling heights. Report exceptions to the Architect prior to construction and erection of the work. Openings around piping passing through the construction shall be sealed with fire barrier caulking. All materials located within the return air plenum shall be non-combustible with flame spread ratings of 25 or less and smoke developed ratings of 50 or less. All control wiring located within ceiling return air plenums shall be plenum rated or shall be run in conduit. All work shall be located to avoid conflicts with other work and provide adequate clearance for architectural design, proper operation, adjustments, component service and provide a minimum 2" clearance between all piping and other work.
- Provide supports, hangers, flexible pipe connections, vibration isolation, supplementary supports, controls and wiring, cleaning, painting specialties and all other labor, materials, devices and services required for a complete, first quality installation. All work shall be supported from the building structural system. Work shall not be supported from the ceiling suspension system, from electrical work, nor from other mechanical work. Unless otherwise indicated, run all piping as high as possible. Provide starters for all motor driven equipment.
- The Contractor shall provide and maintain in good order a complete set of blue-line prints of the contract drawings. As the work progresses, the actual location of all work shall be clearly recorded, including all changes to the contract and equipment size and type. These prints shall be available at the site for inspection at all times. At the conclusion of the work, the Contractor shall, at his own expense, obtain a set of reproducible of the original contract drawings, and utilizing the symbols on the contract drawings, shall incorporate all "as-built" data in a clearly legible and reproducible manner. All work shall be located to avoid conflicts with other work and provide adequate clearance for architectural design, proper operation, adjustments, component service and provide a minimum 2" clearance between all piping and other work.

**PLUMBING:**

- Gate valves shall be all red bronze, 125 psi WP, solid wedge disc, non-rising stem, soldered ends and equivalent to Stockham B-109. Provide shut-off valves for all connected equipment.
- The Contractor shall provide a sanitary drain from all fixtures. The Contractor shall provide all required vent piping for all fixtures installed. Pitch drainage piping 1/8" per foot (1%) unless otherwise noted. Snake all lines and test system just prior to turn over to owner. Provide cleanouts in new sanitary and piping 50 feet from the building structure, at direction changes of 45° or more and elsewhere required by codes. Cleanouts accessible through walls shall be provided with chrome-plated covers and frame, in floors with recessed top to receive floor finishing material.
- The Contractor shall install all new domestic water piping as required by the 2018 National Standard Plumbing Code. The Contractor shall provide water hammer arresters as required. Water hammer arresters: Smith Standard 5000 stainless steel HydroTots, P.D.I. certified and A.S.S.E. approved.
- Alternate sanitary vent piping shall be standard weight uncoated cast iron bell and spigot soil pipe and fittings conforming to ASTM A74 with caulked oakum and lead; no-hub permitted by code. DWV Copper, or standard weight galvanized steel with galvanized cast iron band and recessed screwed drainage fittings, ASTM A126. Alternate sanitary piping within the building shall be standard weight, uncoated cast iron bell and spigot soil pipe and fittings conforming to ASTM A74 with caulked oakum and lead joints or DWV copper. Codes permitting, no-hub may be used.
- Provide trap primers where required by the local Plumbing Inspector. All plumbing must be tested and approved by plumbing inspector and meet the requirements of section 2018 National Standard Plumbing Code. Floor drains shall be installed according to the 2018 National Standard Plumbing Code. All potable water outlets shall be protected from cross connection as required under the 2018 National Standard Plumbing Code.
- All plumbing must be tested and approved by plumbing inspector and meet the requirements of section 2018 National Standard Plumbing Code.
- All potable water outlets shall be protected from cross connection as required under section 2018 National Standard Plumbing Code.
- Provide an unconditional one-year written guarantee to replace or repair all defective work.
- All hole drilling for pipe hangers or floor and wall penetrations shall be by the Plumbing Contractor for plumbing work.
- All piping shall be supported by pipe hangers of similar material as piping being supported. Suspend from building structure with spacing of hangers not to exceed requirements of the latest edition of the 2018 NSPC and IRC 2018 as well as the local authority having jurisdiction. Do not use wire or perforated metal strap to support piping. Do not rest piping on any part of building structure for support.
- Seismic protection for the plumbing system shall be provided as required by the 2018 International Building Code.
- The following system components shall be provided with seismic restraints:
  - Plumbing system piping having hangers longer than 12".
  - Plumbing system piping in mechanical rooms larger than 1'-1/4" I.D.
  - Plumbing system piping outside of mechanical rooms larger than 2'-1/2" I.D.
  - Domestic water heaters.



**9 SANITARY RISER DIAGRAM**  
NOT TO SCALE



**10 DOMESTIC WATER RISER DIAGRAM**  
NOT TO SCALE

**ELECTRICAL COORDINATION**

- IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO COORDINATE THE LOCATIONS OF PIPING WITH THE ELECTRICAL CONTRACTOR. PLUMBING PIPING SHALL NOT BE INSTALLED WITHIN THE DEDICATED EQUIPMENT SPACE REQUIRED FOR EXISTING OR NEW ELECTRICAL EQUIPMENT.
- COORDINATION OF PIPING LOCATIONS SHALL BE SOLELY THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. APPROVAL OF PLUMBING SUBMITTAL DRAWINGS DOES NOT RELEASE THE CONTRACTOR FROM COORDINATION RESPONSIBILITY. FINAL COORDINATION SHALL OCCUR IN FIELD WITH ELECTRICAL CONTRACTOR. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN RELOCATION OF SUPPRESSION SYSTEM PIPING AT CONTRACTOR'S EXPENSE.
- PER NFPA 70, ARTICLE 110.28(F), DEDICATED EQUIPMENT SPACE SHALL APPLY TO SWITCHBOARDS, DISTRIBUTION PANELS, AND MOTOR CONTROL CENTERS. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 8' ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.

**PLUMBING SYMBOLS & INDICATIONS**

Condensate Piping	BFP	Backflow Preventer
Sanitary Piping	BT	Bathub
Cleanout	CO	Cleanout
Cold Water	CW	Cold Water
Drainage Fixture Unit	DFU	Drainage Fixture Unit
Down	DN	Down
Domestic Cold Water Heater	DWH	Domestic Cold Water Heater
Each	EA	Each
Floor Drain	FD	Floor Drain
Funnel Floor Drain	FDD	Funnel Floor Drain
Future Unit	FU	Future Unit
Gas	G	Gas
General Contractor	GC	General Contractor
Hot Water	HW	Hot Water
Lavatory	LAV	Lavatory
Plumbing Contractor	PC	Plumbing Contractor
Roof Drain	RD	Roof Drain
SAN	SAN	SAN
Shut-Off Valve w/ Drain	SOV	Shut-Off Valve w/ Drain
Sink	SK	Sink
Shower	SH	Shower
Square Foot	SQ FT	Square Foot
Water Closet	WC	Water Closet
Wall Hydrant	WH	Wall Hydrant
Vent Thru Roof	VTR	Vent Thru Roof
Mixing Valve	MV	Mixing Valve
Back Flow Preventer	BFP	Back Flow Preventer
Balancing Valve	BV	Balancing Valve
Existing - to - New Connection	EN	Existing - to - New Connection
Pump	P	Pump

RE-BID DATE: 12/12/22

NO.	DATE	DESCRIPTION	REV'D BY

**RESTROOM BUILDING**  
FOR  
**FASOLA PARK**  
12 STANHOPE LN,  
DEERPTOWN TOWNSHIP, NJ 08046

**PLUMBING SCHEDULES & DETAILS**

Joseph F. McKernan Jr., Architects & Associates  
100 Dobbins Lane Suite 204 Cherry Hill, New Jersey 08034

SCOTT A. WHITE  
NJ REG. ARCHITECT #10038  
NJ REG. ENGINEER #12027

SCALE: AS NOTED  
DATE: 09/03/2022  
REV'D BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]

**P-2.0**

**LEGEND**

North Point To Be Used On Standard Construction Sheets Where Bearings Refer to N.J. Plane Coordinate System

Slant Lettering = Existing Vertical Lettering = Proposed

Sanitary Sewer Main		PROPOSED MH RIM ELEV. INV. ELEV.	
Sanitary Sewer Main by DTMUA		BY DTMUA	
Water Service		BY DTMUA	
Water Service by DTMUA		BY DTMUA	
Gas Main		BY DTMUA	
Storm Sewer Main		BY DTMUA	
Roof Drain		BY DTMUA	
Cable Conduit		BY DTMUA	
Electrical Conduit		BY DTMUA	
Overhead Wire		BY DTMUA	
Fiber Optic Conduit		BY DTMUA	
Unknown Utility		BY DTMUA	
Edge Of Pavement		BY DTMUA	
Pavement Marking Stripes		BY DTMUA	
Cut and Fill Slope Lines		BY DTMUA	
Center Line Or Base Line (If Both Label As Such)		BY DTMUA	
Property Lines		BY DTMUA	
Curb		BY DTMUA	
Wooden Fence		BY DTMUA	
Steel / Chainlink Fence		BY DTMUA	
Beam Guide Rail		BY DTMUA	
Railroad Track		BY DTMUA	
Block Wall		BY DTMUA	
Treeline		BY DTMUA	
Seam		BY DTMUA	
Saw-Cut Line		BY DTMUA	
Limit of Disturbance		BY DTMUA	
Silt Fence		BY DTMUA	
Tree Protection		BY DTMUA	
Major Contour		BY DTMUA	
Minor Contour		BY DTMUA	

Signs

Iron Pins	
P.K. Nail / Drill Hole	
Raised Pavement Markers	
Mailbox	
Fire Hydrant Assembly	
Clean Out	
Curb Stop	
Tree (Size, Kind)	

Proposed Building

Proposed Concrete, 4" Thick

Proposed Utility Trench

Stabilized Construction Entrance

Proposed Elevation Pavement Ground Sidewalk Corner

**ABBREVIATIONS**

Approximate Bituminous Surface	APPROX. BIT.	High-Density Polyethylene	H.D.P.E.	Rim Elevation	RIM
Cast Iron Pipe	C.I.P.	Hot Mix Asphalt	H.M.A.	Reinforced Concrete Pipe	R.C.P.
Cement Lined Ductile Iron Pipe	C.L.D.I.P.	Invert Elevation	INV.	Right Of Way	R.O.W.
Corrugated Metal Pipe	C.M.P.	Linear Foot	L.F.	Sanitary Manhole	SAN. MH
Cleanout	CO	Limit Of Cut	LOC	Square Feet	S.F.
Concrete Surface	CONC.	Limit Of Disturbance	LOD	Station	STA
Curb Stop	CS	Limit Of Fill	LOF	Storm Manhole	ST. MH
Cubic Yard	C.Y.	Limit Of Milling	LOM	Square Yard	S.Y.
Ductile Iron Pipe	D.I.P.	Limit Of Paving	LOP	Top Of Curb Elevation	TC
Elevation	ELEV.	Lump Sum	L.S.	To Be Removed	TBR
Edge Of Pavement	E.O.P.	Manhole	MH	Utility Pole	UP
Fire Hydrant	FH	Match Existing Elevation	M.E.	Water Service	WS
Found Monument	FND. MON.	Man-Hour	M.H.	Water Valve	WV
Found Rebar	FND. RB	Not To Scale	N.T.S.	4" Solid Blue Stripe	4" B
Gas Valve	GV	On Center	O.C.	4" Solid Double Yellow Stripe	4" D Y
Inlet Grate Elevation	GR.	PK Nail	PK	4" Solid White Stripe	4" W
		Polyvinyl Chloride Pipe	P.V.C.	4" Solid Yellow Stripe	4" Y
				24" Solid White Stripe	24" W

**SURVEY NOTES**

- THE SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY EASEMENT, RESTRICTION AND/OR COVENANTS THAT A CURRENT REPORT OF TITLE, OR COMPLETE SEARCH OF THE PUBLIC RECORD, MAY DISCLOSE.
- BLOCK AND LOT NUMBER REFER TO THE OFFICIAL TAX MAPS OF THE TOWNSHIP OF DEPTFORD, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY.
- THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS ILLUSTRATED ARE BASED UPON UTILITY MARKOUT ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD. THE STATE OF NEW JERSEY REQUIRES NOTIFICATION PRIOR TO ANY EXCAVATION BY UTILIZING THE NEW JERSEY ONE-CALL SYSTEM (1-800-272-1000).
- SURVEY BASED ON N.J.S.P.C.S. (NAV '83) (2011). VERTICAL DATUM: NAVD 1988 (GEOID 12A).

**SITE NOTES**

- LOCATION OF EXISTING SURFACE SUBSURFACE UTILITIES AND FEATURES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- ANY DIFFERING SITE CONDITIONS WHICH WOULD AFFECT THE PERFORMANCE OF THE WORK MUST BE REPORTED TO THE ENGINEER.
- ALL CONSTRUCTION METHODS, MATERIALS AND DETAILS SHALL BE IN ACCORDANCE WITH DEPTFORD TOWNSHIP REQUIREMENTS.
- PLANS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS PREPARED BY OTHERS.
- REFER TO DETAILS SHEETS FOR MATERIAL SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE CONSTRUCTION OF THE APPROVED IMPROVEMENTS.
- THE OWNER OR HIS REPRESENTATIVE IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5.23-2.21 (e) OF THE N.J. UNIFORM CONSTRUCTION CODE AND CFR 1926.32(f) (OSHA COMPETENT PERSON).
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING SITE SAFETY DEVICES AND SAFETY TRAINING FOR PERSONNEL, AND SHALL MAINTAIN SAFE PRACTICES ON SITE AT ALL TIMES.
- ALL TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS MUST BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)".
- ALL PAINTED TRAFFIC, MARKINGS/STRIPING SUBJECT TO VEHICLE MOVEMENTS MUST BE HOT EXTRUDED THERMOPLASTIC PAINT WITH GLASS BEADS THAT IS IN COMPLIANCE WITH THE LATEST NJDOT SPECIFICATIONS.
- ALL TRAFFIC CONTROL SIGNS MUST BE PLACED ON BREAK AWAY POSTS THAT ARE IN COMPLIANCE WITH THE MUTCD.

**GRADING NOTES**

- MATERIAL PLACED IN FILL SHALL BE FREE OF DETRIMENTAL AMOUNTS OF SOD. ROOTS, FROZEN SOIL, STONES MORE THAN SIX (6) INCHES, AND OTHER OBJECTIONABLE MATERIAL.
- DRAIN FILL SHALL BE KEPT FROM BEING CONTAMINATED BY ADJACENT SOIL MATERIALS DURING PLACEMENT BY EITHER PLACING IT IN A CLEANLY EXCAVATED TRENCH, OR BY KEEPING THE DRAIN AT LEAST ONE FOOT ABOVE THE ADJACENT EARTH FILL.
- SELECTED DRAIN FILL AND BACKFILL MATERIAL SHALL BE PLACED AROUND STRUCTURES PIPE CONDUITS AT ABOUT THE SAME RATE ON ALL SIDES TO PREVENT DAMAGE FROM UNEQUAL LOADING. FILL MATERIAL SHALL BE PLACED AND SPREAD BEGINNING AT THE LOWEST POINT IN THE FOUNDATION, AND THEN BROUGHT UP IN CONTINUOUS HORIZONTAL LAYERS THICK ENOUGH THAT THE REQUIRED COMPACTION CAN BE OBTAINED.
- THE DISTRIBUTION GRADATION OF MATERIALS SHALL BE SUCH THAT NO LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL SHALL DIFFER SUBSTANTIALLY IN TEXTURE OR GRADATION FROM SURROUNDING MATERIAL.
- THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE ADEQUATE FOR OBTAINING THE DESIRED COMPACTION. MATERIAL THAT IS TOO WET SHALL BE DRIED TO MEET THIS REQUIREMENT, AND MATERIAL THAT IS TOO DRY SHALL BE WETTED AND MIXED UNTIL THE REQUIREMENT IS MET. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER EACH LAYER OF FILL TO ENSURE THAT THE REQUIRED LEVEL OF COMPACTION IS OBTAINED.
- FILL ADJACENT TO STRUCTURES, PIPE CONDUITS, OR DRAIN FILL SHALL BE COMPACTED TO A DENSITY EQUIVALENT TO THAT OF THE SURROUNDING FILL BY HAND TAMPING, OR BY USING MANUALLY DIRECTED POWER TAMPERS OR PLATE VIBRATORS. FILL ADJACENT TO CONCRETE STRUCTURES SHALL NOT BE COMPACTED UNTIL THE CONCRETE HAS HAD TIME TO GAIN ENOUGH STRENGTH TO SUPPORT THE LOAD.
- GRADING SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.
- PROVIDE A MINIMUM OF 1.5% SLOPE IN ALL SHEET FLOW LAWN AREAS.
- MINIMUM SLOPE OF 1.0% SHALL BE PROVIDED IN SWALES.
- THERE SHALL BE A MINIMUM OF SIX (6) INCHES OF DROP WITHIN THE FIRST TEN (10) FEET OF THE BUILDING FOUNDATIONS.
- THE PROPOSED LAWN AREAS WILL BE GRADED WITH LIGHT-WEIGHT CONSTRUCTION EQUIPMENT.
- NO TOPSOIL SHALL BE REMOVED FROM THE SITE OR USED AS SPOIL WITHOUT FIRST OBTAINING THE APPROPRIATE PERMITS AND APPROVALS FROM THE PROPERTY OWNER AND MUNICIPALITY.

**BACKFILLING NOTES**

- BACKFILL SHALL CONSIST OF SUITABLE ON-SITE MATERIAL OR IMPORTED SELECT FILL MEETING THE FOLLOWING UCS CLASSIFICATION: GW, GP, GW-GM, GP-GM, SW, SP, SW-SM, SP-SM, OR NJDT SOIL AGGREGATE CLASSIFICATION: 1-13, 1-5.
- BACKFILL SHALL BE FREE OF CLAY MATERIAL, STUMPS, TREE PARTS, TRASH, DEBRIS OR MATERIAL OVER 2" IN SIZE.
- BACKFILL SHALL BE COMPACTED IN A MAXIMUM OF EIGHT (8) INCH LIFTS TO 95% OF THE MAXIMUM IN-SITU DRY DENSITY OF THE MATERIAL BEING PLACED FOR AREAS BELOW STRUCTURES, ROADWAYS, SIDEWALKS, PIPING.
- BACKFILL SHALL BE COMPACTED IN A MAXIMUM OF ONE (1) FOOT LIFTS TO 90% OF THE MAXIMUM IN-SITU DRY DENSITY OF THE MATERIAL BEING PLACED FOR ALL OTHER AREAS.
  - CONTRACTOR SHALL CONTACT THE TOWNSHIP ENGINEER TO DISCUSS SAMPLING FREQUENCY AND ANALYTICAL PARAMETERS IF/ONCE A MATERIAL SOURCE HAS BEEN SELECTED. THE RESULTS OF THIS TESTING, IF NECESSARY, SHOULD BE PROVIDED TO THE TOWNSHIP AND TOWNSHIP ENGINEER FOR REVIEW PRIOR TO IMPORTING TO THE SITE.
  - CONTRACTOR SHALL PROVIDE ARCHITECT/ENGINEER WITH SOIL TESTING RESULTS FOR BACKFILL MATERIAL INCLUDING, BUT NOT LIMITED TO, UCS CLASSIFICATION, OPTIMUM MOISTURE CONTENT, MAXIMUM DRY DENSITY AND SCREENING FOR PESTICIDES AND CONTAMINANTS IN ACCORDANCE WITH THE NJDEP PRIORITY POLLUTANT LIST.
  - ONE SAMPLE SHALL BE TESTED FOR EACH 500 C.Y. OF BACKFILL MATERIAL TO BE UTILIZED AND THE RESULTS SUBMITTED TO THE ARCHITECT/ENGINEER PRIOR TO INITIATING BACKFILLING OPERATIONS.
- COMPACTION SHALL BE MONITORED BY CONTRACTOR'S GEOTECHNICAL ENGINEER, UTILIZING THE DENSITY CONTROL METHOD PER SECTION 203.10 OF THE NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. A MINIMUM OF TWO (2) MEASUREMENTS SHALL BE TAKEN PER LIFT FOR EACH STRUCTURE/AREA BEING BACKFILLED. COMPACTION TESTING RESULTS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PERFORMING ABOVE GRADE ACTIVITIES ON THE AREAS RECEIVING BACKFILL.

**UTILITY NOTES**

- THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AT NO COST TO THE DEPTFORD TOWNSHIP INCLUDING BUT NOT LIMITED TO ROAD OPENING PERMITS FROM THE TOWNSHIP AND COUNTY.
- THE LOCATION AND DEPTHS OF EXISTING UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES OF PROPOSED EXCAVATIONS IN THE VICINITY OF SAID UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE PROPER TRAFFIC CONTROL TO THE SATISFACTION OF LOCAL, COUNTY, AND STATE AUTHORITIES.
- NO MATERIAL SHALL BE PLACED OR DISTURBED BEYOND THE PROPERTY LINE OR RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION OF THE PROPERTY OWNER DIRECTLY INVOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING PAVING, PLANTING, ETC. IN KIND AND TOPSOILING, FERTILIZING AND SEEDING ALL AREAS DISTURBED BY HIS ACTIVITIES. ROAD PAVEMENT REPLACEMENT AND ALL RESTORATION IN DISTURBED AREAS SHALL MEET THE REQUIREMENTS OF THE TOWNSHIP OR TOWNSHIP ENGINEER.
- WHENEVER THE TRENCH BOTTOM DOES NOT AFFORD SUFFICIENT BEARING STRENGTH TO SUSTAIN THE WEIGHT OF THE PIPE AND SUPERIMPOSED LOADS, THE TRENCH BOTTOM SHALL BE OVER EXCAVATED AND STABILIZED WITH SIX (6) INCH MINIMUM THICK LAYERS OF CRUSHED STONE, AS DIRECTED BY THE TOWNSHIP ENGINEER.
- ALL TRENCHES WILL BE BACKFILLED BY COMPACTION IN SIX (6) INCH LAYERS IN STRICT ACCORDANCE WITH THE TRENCH DETAILS AND SPECIFICATIONS.
- THE CONSTRUCTION SITE MUST BE SWEEPED AND CLEANED DAILY WITH NO TRENCHES OPEN OVERNIGHT.
- INSPECTION OF, OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP BY THE ENGINEER, OR THE ENGINEER'S REPRESENTATIVE, OR THE TOWNSHIP SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND APPLICABLE LAWS.
- THE CONTRACTOR SHALL SUPPLY THE AUTHORITY ENGINEER WITH COMPLETE AS-BUILTS OF ALL UTILITY INSTALLATIONS AND APPURTENANCES PRIOR TO THE AUTHORITY ENGINEER WITNESSING TESTING OF THE SYSTEMS.
- COVER OVER ALL WATER SERVICES SHALL BE FOUR (4) FOOT MINIMUM.
- ALL PROPOSED WATER MAINS SHALL HAVE THRUST BLOCKS AT ALL BENDS AND TEES.
- WATER MAINS AND SANITARY SEWER MAINS SHALL BE SEPARATED BY TEN (10) FEET HORIZONTALLY WHEREVER POSSIBLE; OTHERWISE, THE SANITARY SEWER AND WATER PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SANITARY SEWER EIGHTEEN (18) INCHES MINIMUM BELOW THE BOTTOM OF THE WATER MAIN. THE SEWER SHALL BE EIGHTEEN (18) INCHES BELOW THE WATER MAIN AND/OR STORM PIPE AT ALL CROSSINGS. WHERE THE SANITARY SEWER CROSSES OVER OR WITHIN EIGHTEEN (18) INCHES UNDER A WATER MAIN AND/OR STORM PIPE, THE SANITARY SEWER SHALL BE DUCTILE IRON PIPE WITH SLIP-ON JOINTS FOR TEN (10) FEET ON EACH SIDE OF THE CROSSING.
- LOCATIONS AND SLOPES OF THE MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS.
- LOCATIONS AND SLOPES OF THE LATERALS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
- SANITARY SEWER LATERALS SHALL CONFORM TO STANDARD INSTALLATION REQUIREMENTS AND MAY NOT BE CONNECTED DIRECTLY INTO MANHOLES.
- WATER AND SEWER SERVICES AND PLUMBING SHALL CONFORM TO THE REQUIREMENTS OF THE PLUMBING SUBCODE OF THE NEW JERSEY STATE UNIFORM CONSTRUCTION CODE.
- PIPE DIMENSIONS ARE ROUNDED TO THE NEAREST FOOT BETWEEN THE OUTER EDGES OF STRUCTURES. MINOR FIELD ADJUSTMENT MAY BE NECESSARY.
- ALL CONSTRUCTION, MATERIALS, TESTING, INSPECTION AND ACCEPTANCE OF WATER AND SEWER FACILITIES MUST BE COMPLETED IN ACCORDANCE WITH UTILITY PROVIDER STANDARDS, INVERT ELEVATIONS OF THE COMPLETED SANITARY SEWER SYSTEM SHALL BE SUBMITTED TO THE D.T.M.U.A. AND INVERT ELEVATIONS OF THE COMPLETED WATER MAIN SHALL BE SUBMITTED TO THE D.T.M.U.A. PRIOR TO ANY LATERAL CONNECTIONS BEING MADE TO ENSURE THAT THE SYSTEMS WERE CONSTRUCTED ACCORDING TO THE APPROVED PLANS.

EDWARD F. FARRELL III  
PROFESSIONAL ENGINEER  
N.J. LICENSE NO. 6846154

NO.	DATE	REV. FOR	REVISIONS	BY	CHECKED BY
1	12/17/22				

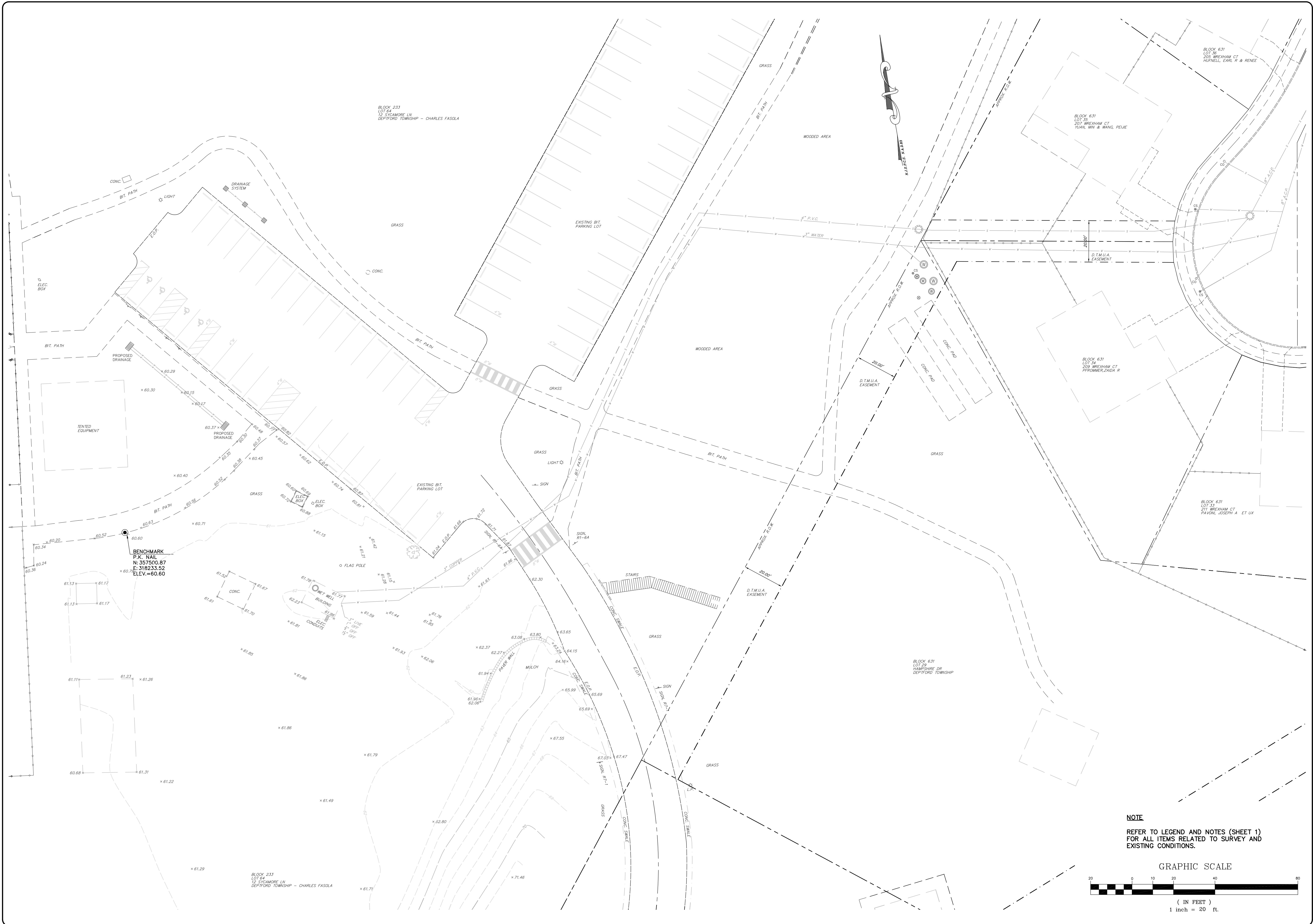
**LEGEND & NOTES**  
FASOLA PARK  
BATHROOM IMPROVEMENTS

TOWNSHIP OF DEPTFORD, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY

**BRYSON & YATES**  
CONSULTING ENGINEERS, LLC

307 Greentree Road, Sewell, New Jersey 08080  
Phone: (856) 589-1400 Fax: (856) 582-7976

JOB NO.:	22323
DATE:	9/19/2022
SCALE:	AS SHOWN
DRAWN BY:	K.D.A.
CHECKED BY:	E.F.F.3



BLOCK 233  
LOT 64  
12 SISCAMORE LN  
DEPTFORD TOWNSHIP - CHARLES FASOLA

BLOCK 631  
LOT 36  
205 WREXHAM CT  
MURNELL, EARL R & RENEE

BLOCK 631  
LOT 35  
207 WREXHAM CT  
YUAN, MIN & BRANG, PEISE

BLOCK 631  
LOT 34  
209 WREXHAM CT  
PYROMERLADA R

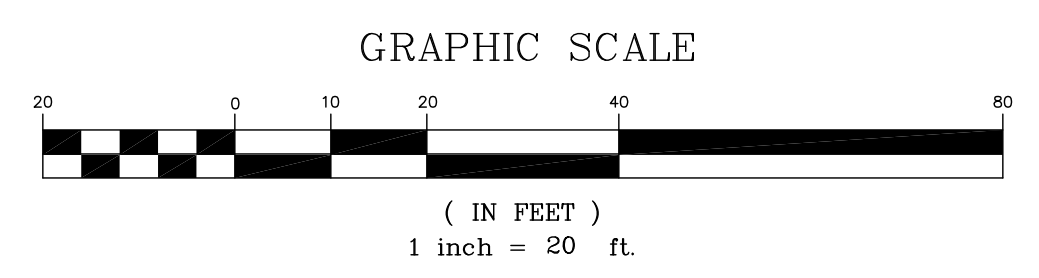
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271 WREXHAM CT  
PAVONI, JOSEPH A ET UX

BLOCK 631  
LOT 29  
HAMPSHIRE DR  
DEPTFORD TOWNSHIP

BENCHMARK  
P.K. NAIL  
N: 357500.87  
E: 318233.52  
ELEV.=60.60

BLOCK 233  
LOT 64  
12 SISCAMORE LN  
DEPTFORD TOWNSHIP - CHARLES FASOLA

**NOTE**  
REFER TO LEGEND AND NOTES (SHEET 1)  
FOR ALL ITEMS RELATED TO SURVEY AND  
EXISTING CONDITIONS.

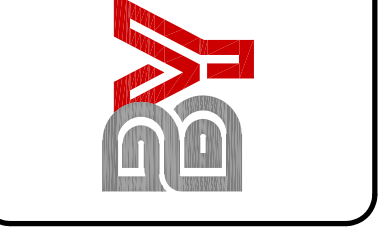


**EDWARD F. FARRELL III**  
PROFESSIONAL ENGINEER  
N.J. LICENSE NO. CE46154

NO.	DATE	REVISIONS	CHECKED BY	
			BY	DATE
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**EXISTING CONDITIONS PLAN**  
**FASOLA PARK**  
**BATHROOM IMPROVEMENTS**  
TOWNSHIP OF DEPTFORD, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY

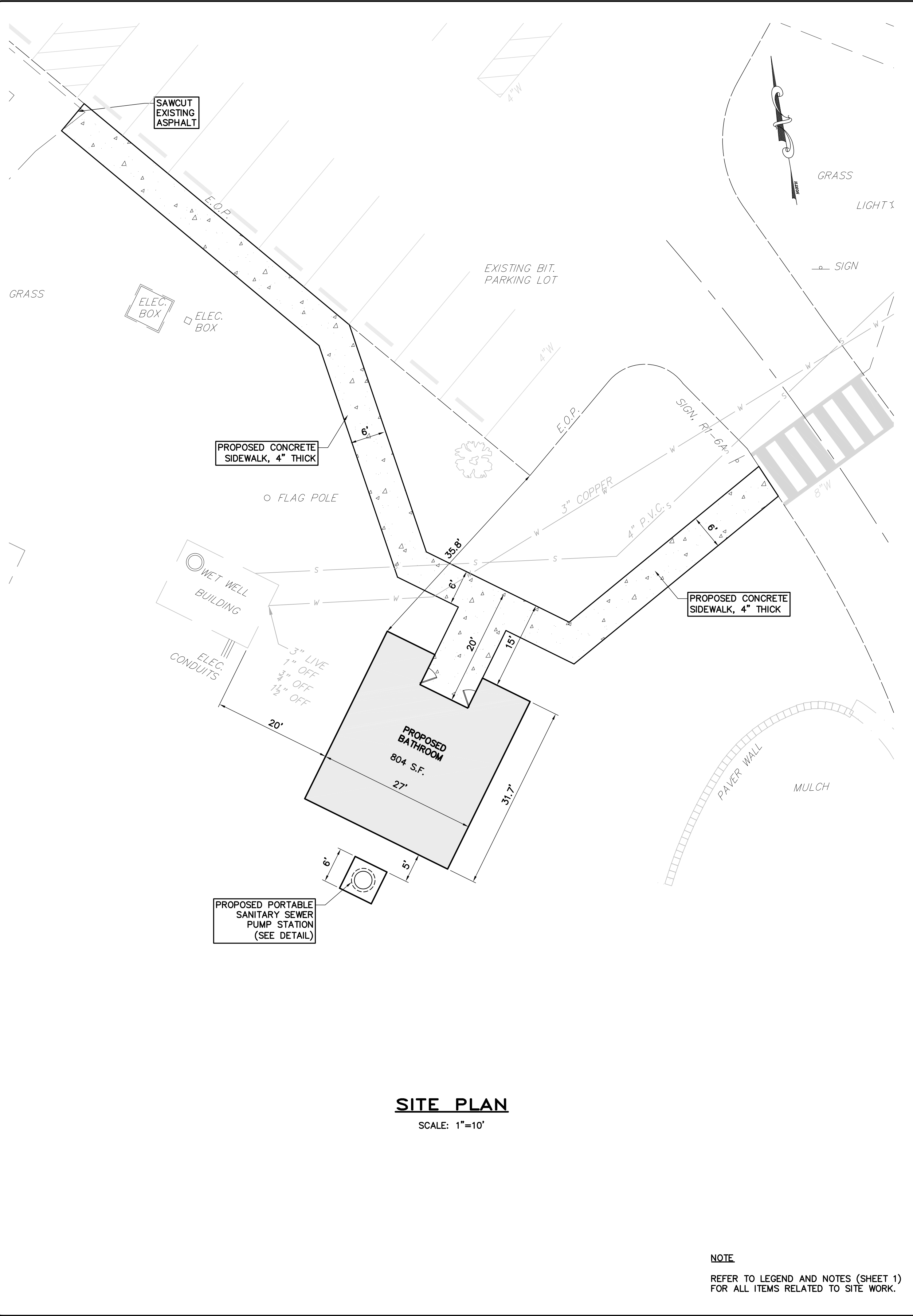
**BRYSON & YATES**  
CONSULTING ENGINEERS, LLC  
307 Greentree Road Sewell, New Jersey 08080  
Phone: (856) 587-1400 Fax: (856) 582-7776



JOB NO.: 22323  
DATE: 9/19/2022  
SCALE: AS SHOWN  
DRAWN BY: K.D.A.  
CHECKED BY: E.F.F.3

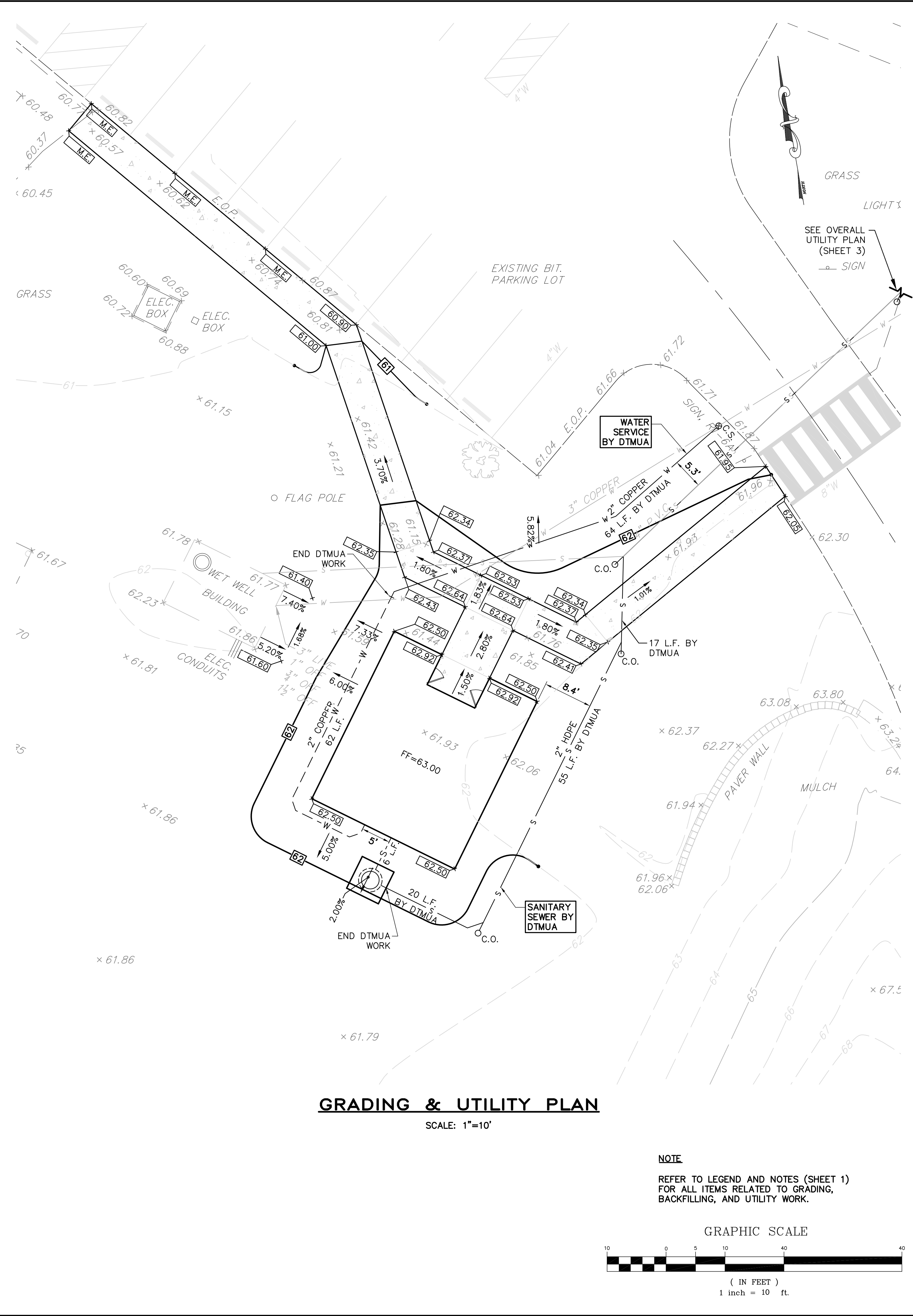
SHEET: **2 OF 8**





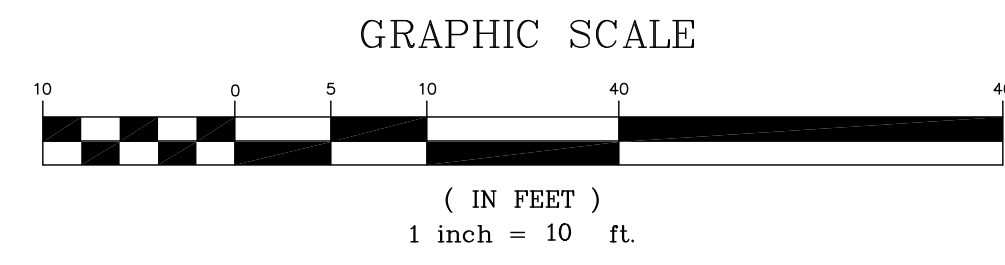
**SITE PLAN**  
SCALE: 1"=10'

**NOTE**  
REFER TO LEGEND AND NOTES (SHEET 1)  
FOR ALL ITEMS RELATED TO SITE WORK.



**GRADING & UTILITY PLAN**  
SCALE: 1"=10'

**NOTE**  
REFER TO LEGEND AND NOTES (SHEET 1)  
FOR ALL ITEMS RELATED TO GRADING,  
BACKFILLING, AND UTILITY WORK.



**EDWARD F. FARRELL III**  
PROFESSIONAL ENGINEER  
N.J. LICENSE NO. GE46154

NO.	DATE	REVISIONS	CHECKED BY	BY
1	12/17/22	REV. FOR REBID	K.D.A.	E.F.F.3

**SITE, GRADING & UTILITY PLAN**  
**FASOLA PARK**  
**BATHROOM IMPROVEMENTS**  
TOWNSHIP OF DEPTFORD, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY

**BRYSON & YATES**  
CONSULTING ENGINEERS, LLC  
307 Greentree Road Sewell, New Jersey 08080  
Phone: (856) 587-1400 Fax: (856) 582-7776



JOB NO.:	22323
DATE:	9/19/2022
SCALE:	AS SHOWN
DRAWN BY:	K.D.A.
CHECKED BY:	E.F.F.3





### TECHNICAL INFORMATION

#### DESIGNED FOR RESIDENTIAL, LIGHT COMMERCIAL & INDUSTRIAL APPLICATIONS

The Myers WG/WGX20 Series are rugged 2 horsepower submersible centrifugal grinder pumps designed for residential, light commercial or industrial applications. It is especially suited for use in pressure sewer applications or in systems with long discharge runs or high static heads. The WG/WGX20 Series features a patented cutter mechanism and recessed impeller design to efficiently grind typical domestic sewage solids into a fine slurry. These pumps are available in standard construction and construction for use in Class 1, Group D hazardous locations.

The WG/WGX20 Series can be installed in a variety of packaged systems. Factory-assembled simplex or duplex packages with guide rail systems or suspended systems are available. Individual rail components are also available for installation in on-site concrete systems. Myers offers a complete line of submersible sump, sewage, effluent, grinder, solids handling wastewater pumps, controls, basins, and accessories. For additional information, please contact your local Myers representative or the Myers Ashland, Ohio sales office at 419-289-1144.

#### Ideal for use in pressure sewer systems.

- Choice of standard or high flow designs.
- Recessed impeller provides steep non-overloading operating curve.

#### Durable motor will deliver many years of reliable service.

- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Recessed impeller reduces radial bearing loads, increases bearing life.
- High torque capacitor start/run single phase or three phase motors for assured starting under heavy load.
- Seal leak probes and on-winding heat sensors warn of seal leak condition and stop motor if motor overheats. Helps prevent costly motor damage.

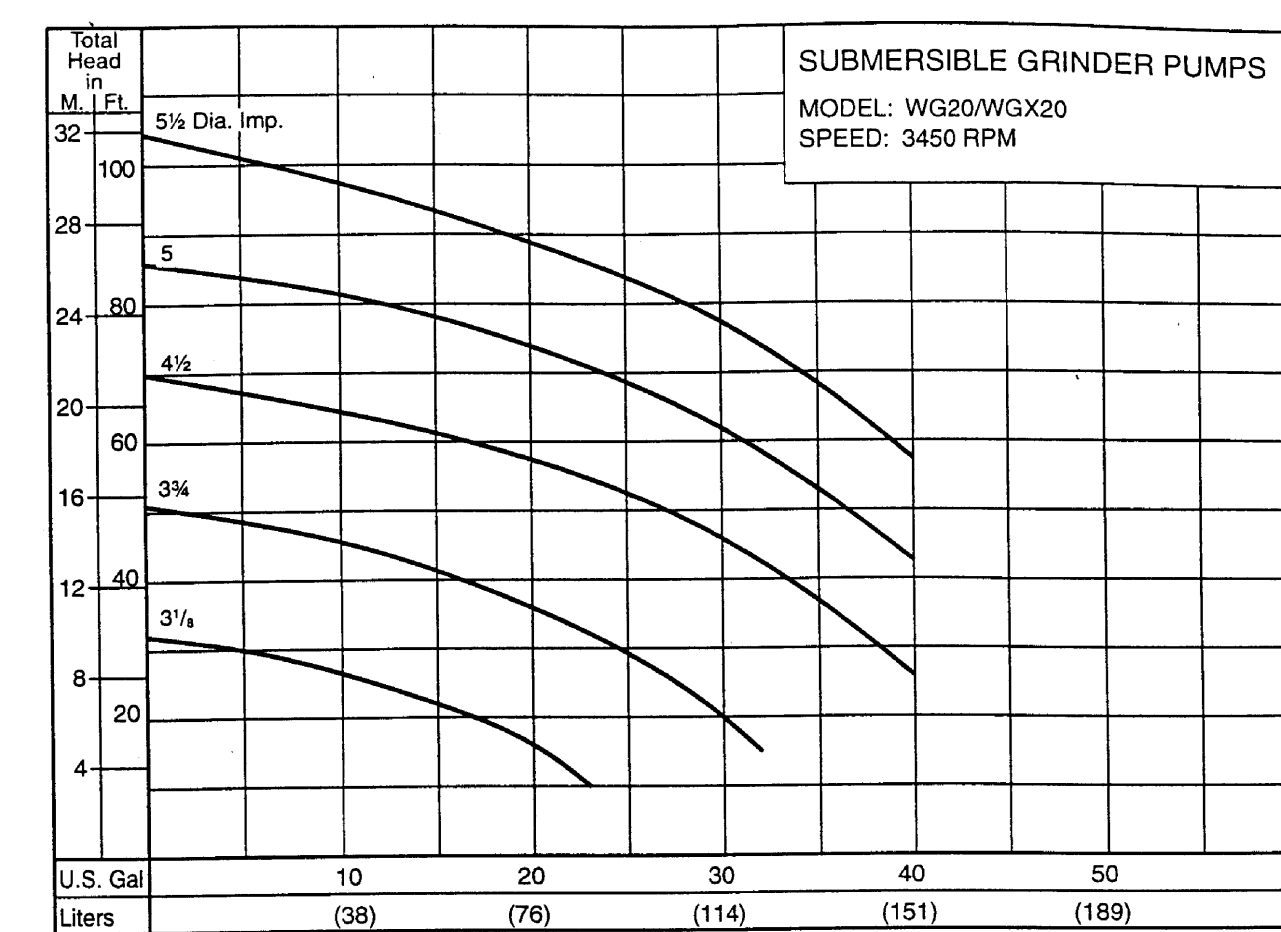
#### The WG/WGX20 Series is designed for easy maintenance.

- Shredding ring and grinder impeller are replaceable without dismantling pump or motor.



Product Capabilities		
Capacities To	70 gpm	250 lpm
Heads To	105 ft.	32.1 m
Liquids Handling	domestic raw sewage	
Maximum Liquid Temp.	up to 140°F	up to 60°C
Winding Insulation Temp. (Class F)	311°F	155°C
Motor Electrical Data	2 HP, 3450 RPM	
Single phase motor uses capacitor start and capacitor run type. Motor control panel or capacitor into line required for proper operation and warranty.	1 ph - capacitor start/run, 200 or 230 volts, 60 Hz	
	3 ph - induction run, 200, 230, 440, 375 volts, 60 Hz	
Third Party Approvals	NSF-16, CSA, WGX - CSA, FM	
Acceptable pH Range	6 - 9	
Specific Gravity	9 - 1.1	
Viscosity	28 - 95 SSU	
Discharge, NPT	1 1/2 in.	31.75 mm
Min. Sump Dia. (5 Simplex)	24 in.	61.0 cm
(Standard)	26 in.	66.0 cm
NOTE: Contact factory for applications outside of these recommendations.		
Construction Materials		
Motor Housing, Seal Housing, Cord Cap. and Volute Case	cast iron, Class 30, A518M A&B	
Impeller	recessed, bronze	
Power Cord	14/4, 500W	
Control Cord	18/5, 500W	
Mechanical Seals	dbl. tandem carbon & ceramic	
Standard Options	level transmitter cable	
Pump, Motor Shaft	416 S316	
Fasteners	300 series S316	
Shredding Ring	440 S316	
Grinder Impeller	S5-60 Rockwell	

### Pump Performance

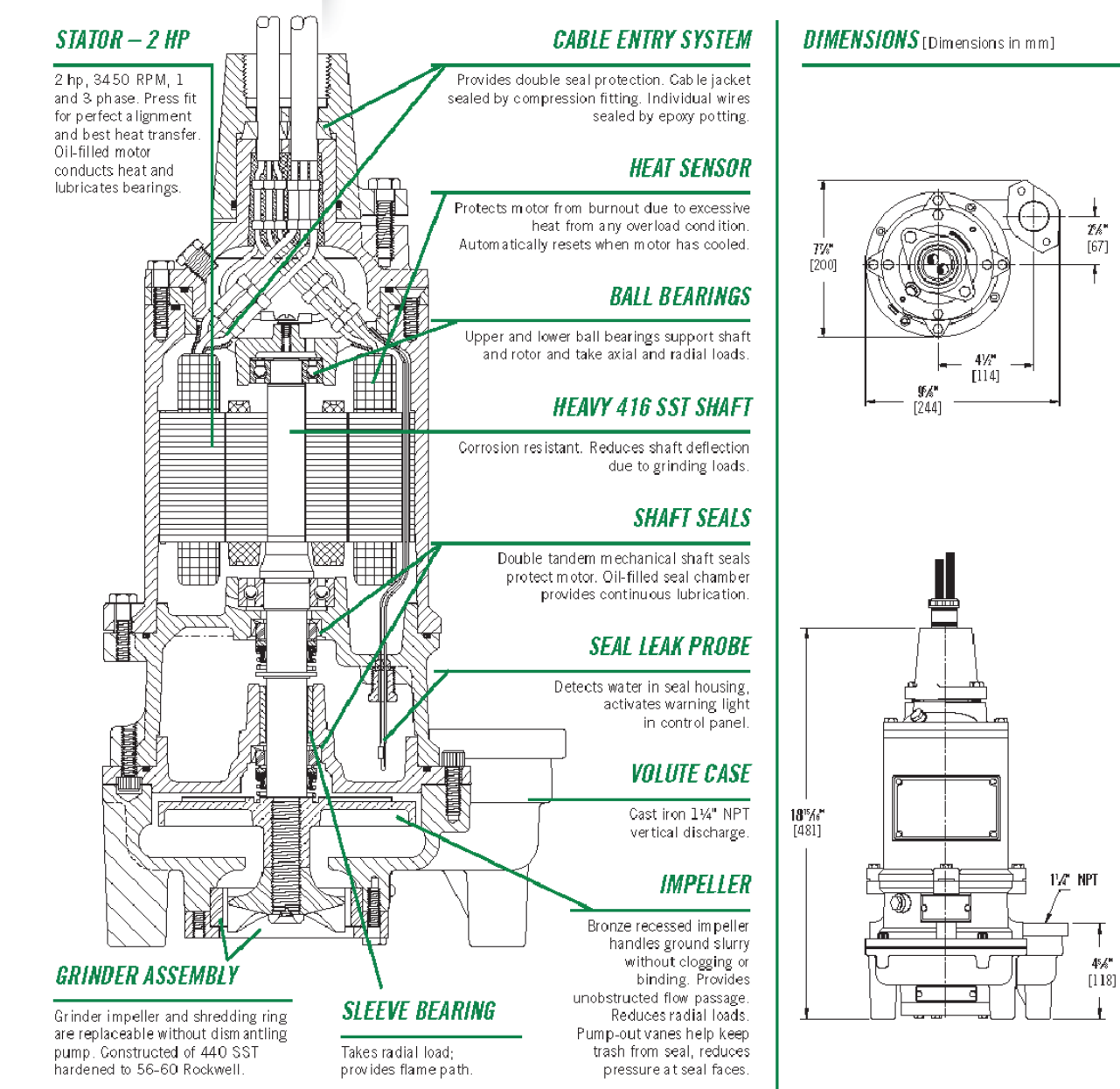


Available Models		Motor Electrical Data										
Standard	Explosion Proof	HP	Volts	Phase	Hertz	Start Amps	Run Amps	Run KW	Start KVA	Run KVA	NEC Code Letter	Service Factor
WG20-01-15	WG20-01-15	2	230	1	60	50.0	15.0	2.8	10.0	3.0	F	1.25
WG20-01-15	WG20-01-15	2	230	1	60	44.0	12.0	2.8	10.1	2.8	F	1.25
WG20-03-15	WG20-03-15	2	200	3	60	30.0	9.5	2.9	10.4	3.3	F	1.25
WG20-23-15	WG20-23-15	2	230	3	60	27.5	8.4	2.9	11.0	3.3	F	1.25
WG20-43-15	WG20-43-15	2	460	3	60	13.8	4.2	2.9	11.0	3.3	F	1.25

MID ATLANTIC PUMP & EQUIPMENT CO.  
228 N RTE 73/ BERLIN, NJ 08009  
PH-856-768-3880 FAX-856-768-0925  
EMAIL-SALES@MAPECO.COM

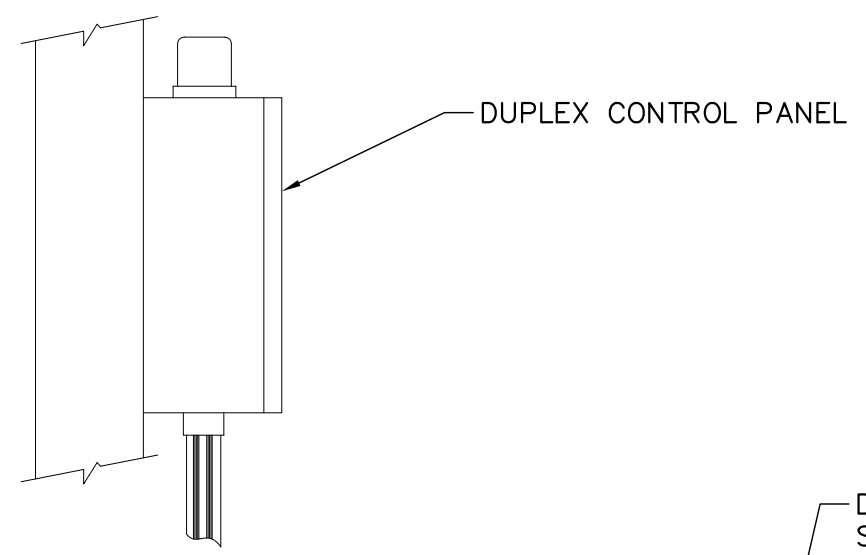


### ADVANTAGES BY DESIGN



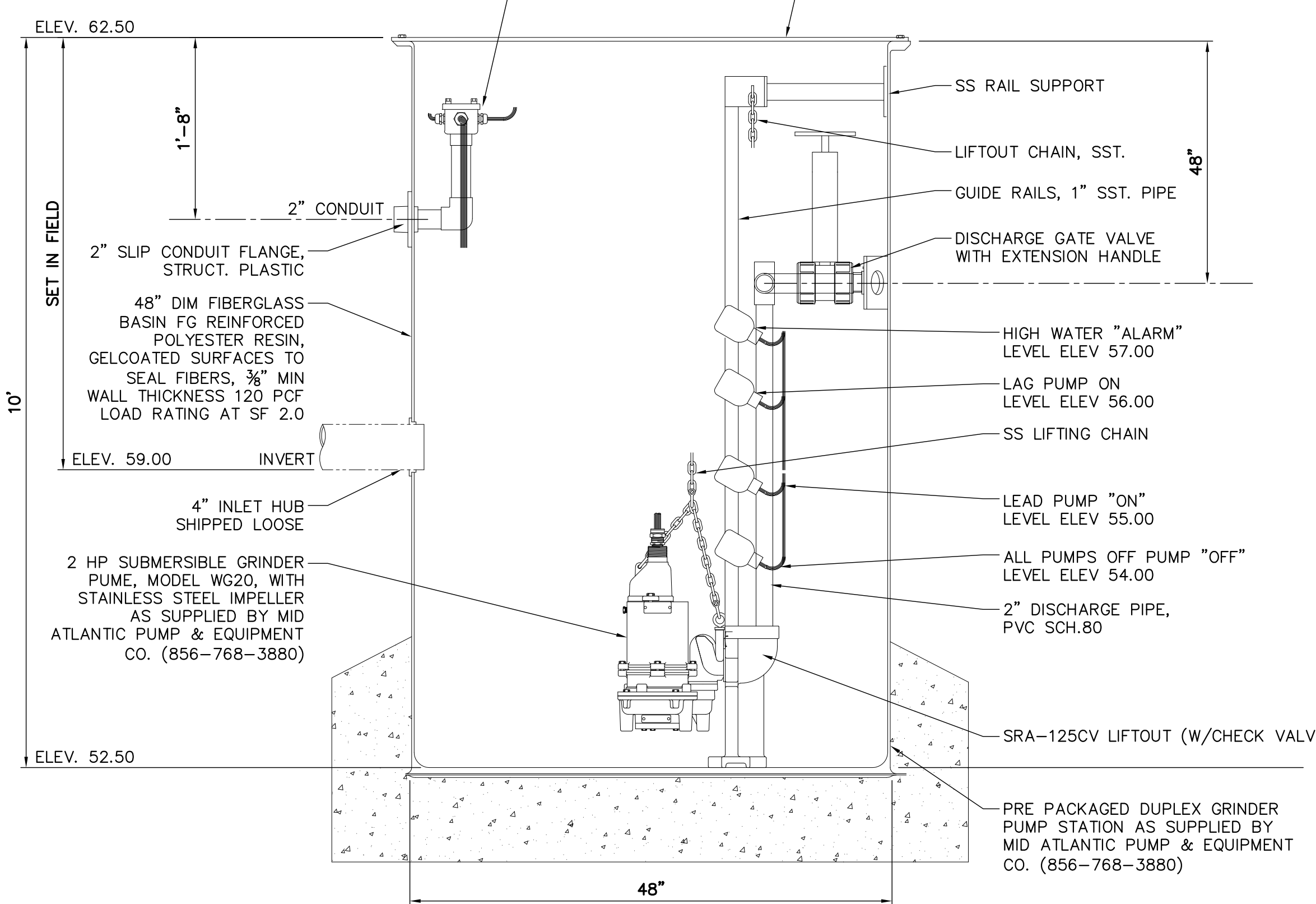
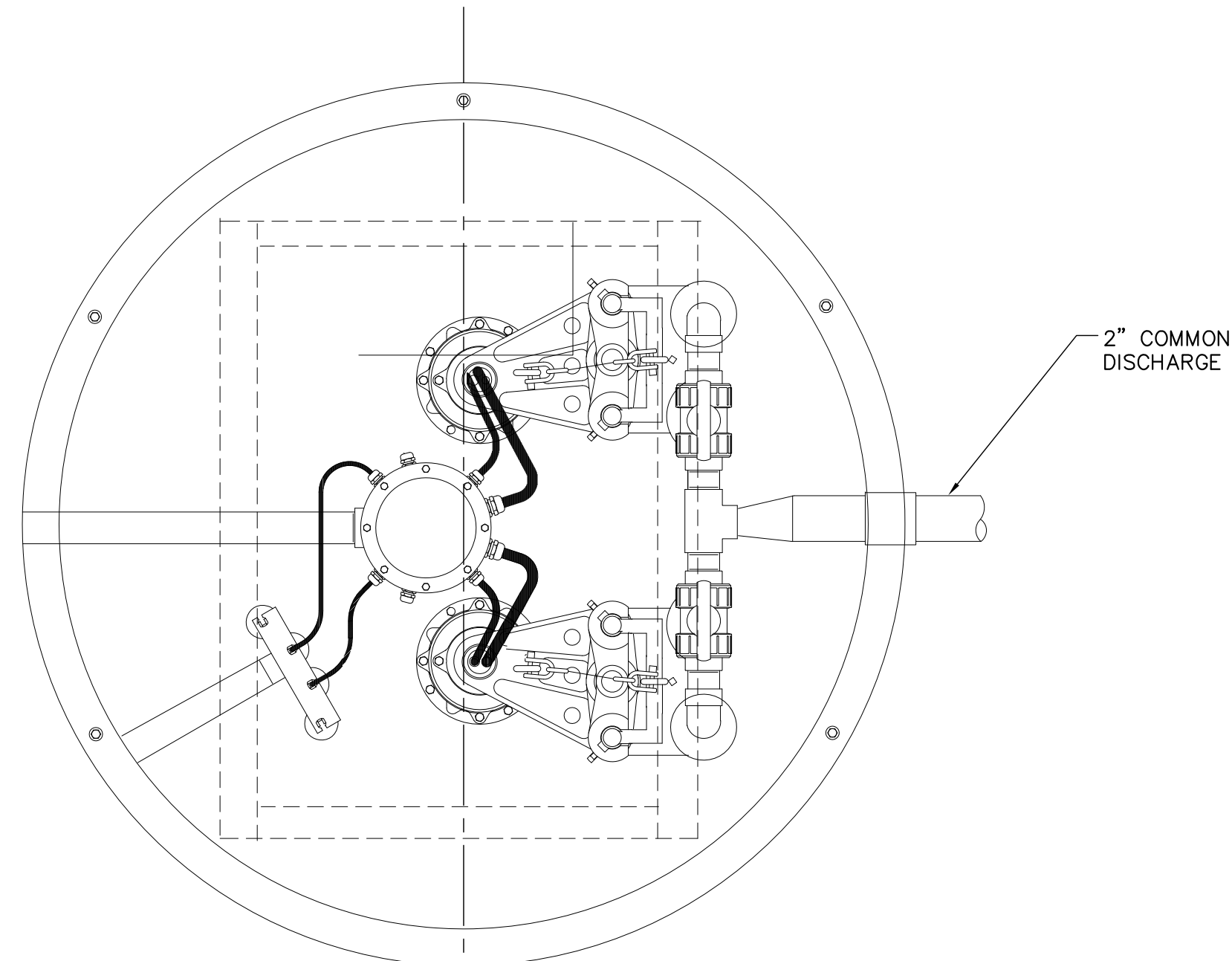
1101 Myers Parkway  
Ashland, Ohio 44805  
Tel: (419) 289-1144  
Fax: (419) 281-9980  
269 Trillium Drive  
Kitchener, Ontario  
Canada N2G 4W5  
Tel: (519) 748-5470  
Fax: (519) 748-2553  
www.femysers.com

K3368 01/10



### SANITARY SEWER PUMP DETAIL (FASOLA PARK)

N.T.S.



### PORTABLE SANITARY SEWER PUMP STATION DETAIL (FASOLA PARK)

N.T.S.

EDWARD F. FARRELL III  
PROFESSIONAL ENGINEER  
N.J. LICENSE NO. CE46154

NO.	DATE	BY	REVISIONS
1	12/17/22	K.D.A.	REV. FOR REBID
		E.F.F.3	

CONSTRUCTION DETAILS  
FASOLA PARK  
BATHROOM IMPROVEMENTS  
TOWNSHIP OF DEPTFORD, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY

BRYSON & YATES  
CONSULTING ENGINEERS, LLC  
307 Greentree Road, Sewell, New Jersey 08080  
Phone: (856) 587-1400 Fax: (856) 582-7776



JOB NO.:	22323
DATE:	9/19/2022
SCALE:	AS SHOWN
DRAWN BY:	K.D.A.
CHECKED BY:	E.F.F.3





