

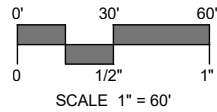
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 Created by: ESN008 On this date: Wed, 2022 December 7 - 11:56am

BID DOCUMENTS
OCTOBER 14, 2022

3. SEE SHEET C2.0 FOR MAPPING AND DATUM REFERENCE POINTS.
2. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", DIAL 811 OR GO TO [WWW.CBVDO.COM](http://www.cbvdo.com). ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. SLR INTERNATIONAL CONSULTING INC. ("SLR") ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
4. ALL UTILITY SERVICES ARE TO BE UNDERGROUND. THE EXACT LOCATION, MEANS OF CONSTRUCTION, AND SIZE OF SERVICE LINES ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
6. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
7. ALL DISTURBED AREAS OUTSIDE OF THE CONSTRUCTION AREA SHALL BE REPAIRED IN ACCORDANCE WITH CITY OF MERIDEN REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818 AND ALL ADDENDA AND IN ACCORDANCE WITH SPECIAL PROVISIONS.
8. ALL STORM DRAIN PIPE SHALL BE SMOOTH LINED HDPE UNLESS OTHERWISE INDICATED.
9. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
10. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE CITY OF MERIDEN REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818 AND ALL SUBSEQUENT ADDENDA AND IN ACCORDANCE WITH SPECIAL PROVISIONS.
11. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH UTILITIES IMPACTED BY THIS PROJECT INCLUDING DEMOLITION AND NEW WORK. ALL UTILITY WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE CITY OF MERIDEN CODES OF EACH UTILITY COMPANY. THE CONTRACTOR'S PROTECTION OF THE PROJECT AREA. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
12. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
13. THE CONTRACTOR MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROLS UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
14. THE CONTRACTOR IS RESPONSIBLE FOR SECURING WORK AREA.
15. COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE.

1. ALL SITE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF MERIDEN STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR MUST CONTACT "CALL-BEFORE YOU DIG" AT 1-800-922-4455 FOR THE LOCATION AND MARKING OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. EROSION AND SEDIMENT CONTROLS MUST COMPLY WITH THE LATEST SEDIMENT AND EROSION CONTROL MANUAL PUBLISHED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.
4. STREET CURBING, SIDEWALKS, AND PAVEMENT SHALL BE REPAIRED BY THE GENERAL CONTRACTOR AT NO COST TO THE CITY SHOULD THE CONTRACTOR OR SUB-CONTRACTORS DAMAGE THESE DURING SITE CONSTRUCTION.
5. THE CITY PUBLIC WORKS FACILITIES INSPECTOR MUST BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
6. A PRE-CONSTRUCTION MEETING MUST BE HELD PRIOR TO BEGINNING CONSTRUCTION TO INCLUDE THE GENERAL CONTRACTOR, UTILITY COMPANIES, SITE DESIGN ENGINEER, AND CITY STAFF. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THIS MEETING.
7. UPON COMPLETION OF THE UNDERGROUND UTILITIES, AS-BUILT/RECORD MAPS SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR TO THE CITY ENGINEERING DEPARTMENT IN ACCORDANCE WITH CITY STANDARDS. AFTER REVIEW AND FINAL APPROVAL, THE MAPS SHALL BE SIGNED AND SEALED BY A CONNECTICUT LICENSED SURVEYOR AND SUBMITTED BY PAPER/MYLAR COPIES AND ELECTRONICALLY.
8. THE IRRIGATION WATER SERVICE LINE AND IRRIGATION SYSTEM MUST BE PRESSURE TESTED AND DISINFECTED PER AWWA AND THE CITY OF MERIDEN STANDARDS AND SPECIFICATIONS.

1. PRIOR TO COMMENCEMENT OF WORK A PRECONSTRUCTION MEETING SHALL BE HELD WITH CITY STAFF, ENGINEER, AND THE CONTRACTOR. AT THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
2. CONTRACTOR SHALL STAKE OUT LIMIT OF DISTURBANCE. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
3. INSTALL SILT FENCE AND RELATED SEDIMENT AND EROSION CONTROLS. IDENTIFY AREAS FOR TEMPORARY STOCKPILES FOR FILL (BOTH CONTAMINATED AND NON-CONTAMINATED) AND BORROW FOR APPROVAL BY THE CITY. SECURE SITE WITH FENCE AS SHOWN ON THE PLANS.
4. CLEAR AND GRUB SITE, STOCKPILE SOILS SEGREGATED IN LOCATIONS AS APPROVED BY THE CITY. THIS INCLUDES THE REMOVAL OF ALL PAVEMENT, UTILITIES, EXISTING FOUNDATIONS, AND ANY OTHER NON-REUSABLE MATERIAL.
5. ESTABLISH NEW ELECTRICAL SERVICE TO SITE AS APPROVED BY EVERSOURCE.
6. EXCAVATE TO SUBGRADE FOR PROPOSED BUILDING. COMMENCE BUILDING FOUNDATION WORK.
7. FULLY INSTALL AND CONNECT ALL PROPOSED UTILITIES TO BUILDING ACCORDING TO PLANS. COMPLETE ROAD REPAIR AT TRENCHING.
8. EXCAVATE TO SUBGRADE FOR REMAINDER OF THE SITE IMPROVEMENTS. INSTALL AND CONNECT ALL STORM DRAINAGE IN ACCORDANCE WITH THE UTILITY PLAN. INSTALL DEMARCATION LAYER AS INDICATED ON THE SITE DETAILS.
9. ESTABLISH FINISHED GRADE IN ACCORDANCE WITH THE PLANS.
10. INSTALL FINAL SITE DETAILS, INCLUDING BUT NOT LIMITED TO, SIDEWALKS, PATIO, LANDSCAPING AND LAWN



CITY OF MERIDEN
142 EAST MAIN STREET
MERIDEN, CONNECTICUT 06450

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM



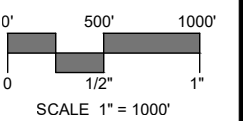
SLR CONSULTING
99 REALTY DRIVE
CHESHIRE, CT

STEIN TROOST LLC
1 MORGAN AVE.
NORWALK, CT

PROGRESSIVE ENGINEERING, INC.
28 MAIN ST.
EAST HARTFORD, CT

SZEWCZAK ASSOCIATES
200 FISHER RD.
AVON, CT

SG ENGINEERING
56 FOXCROFT COURT
SOUTHINGTON, CT



NAME	TITLE
CIVIL DRAWINGS	
C1.0	TITLE SHEET
C2.0	SITE PLAN - EXISTING CONDITIONS AND REMOVALS
C3.0	SITE PLAN - LAYOUT AND MATERIALS
C4.0	SITE PLAN - GRADING AND UTILITIES
C5.0	SITE PLAN - SEDIMENT & EROSION CONTROL
C5.1	SEDIMENT & EROSION CONTROL NOTES & DETAILS
C6.0	SITE DETAILS
C6.1	SITE DETAILS

A1.0	PLAN
A1.1	ROOF PLAN
A2.0	ELEVATIONS
A3.0	BUILDING SECTIONS
A3.1	BUILDING SECTIONS
A4.0	WALL SECTIONS
A5.0	DETAILS
A5.1	DETAILS
A5.2	DETAILS
A6.0	INTERIOR ELEVATIONS
A7.0	SCHEDULES

S0.0	STRUCTURAL GENERAL NOTES & DETAILS
S1.0	FOUNDATION PLAN
S2.0	ROOF FRAMING PLAN
S3.0	FOUNDATION SECTIONS
S4.0	STRUCTURAL SECTIONS

P1.0	FIRST FLOOR PLUMBING PLAN
P2.0	PLUMBING DETAILS
P3.0	PLUMBING SCHEDULES
P4.0	PLUMBING SCHEDULES & SPECIFICATIONS
M1.0	HVAC PLAN
E1.0	ELECTRICAL PLANS
E2.0	ELECTRICAL SYMBOLS
E3.0	ELECTRICAL SPECIFICATIONS

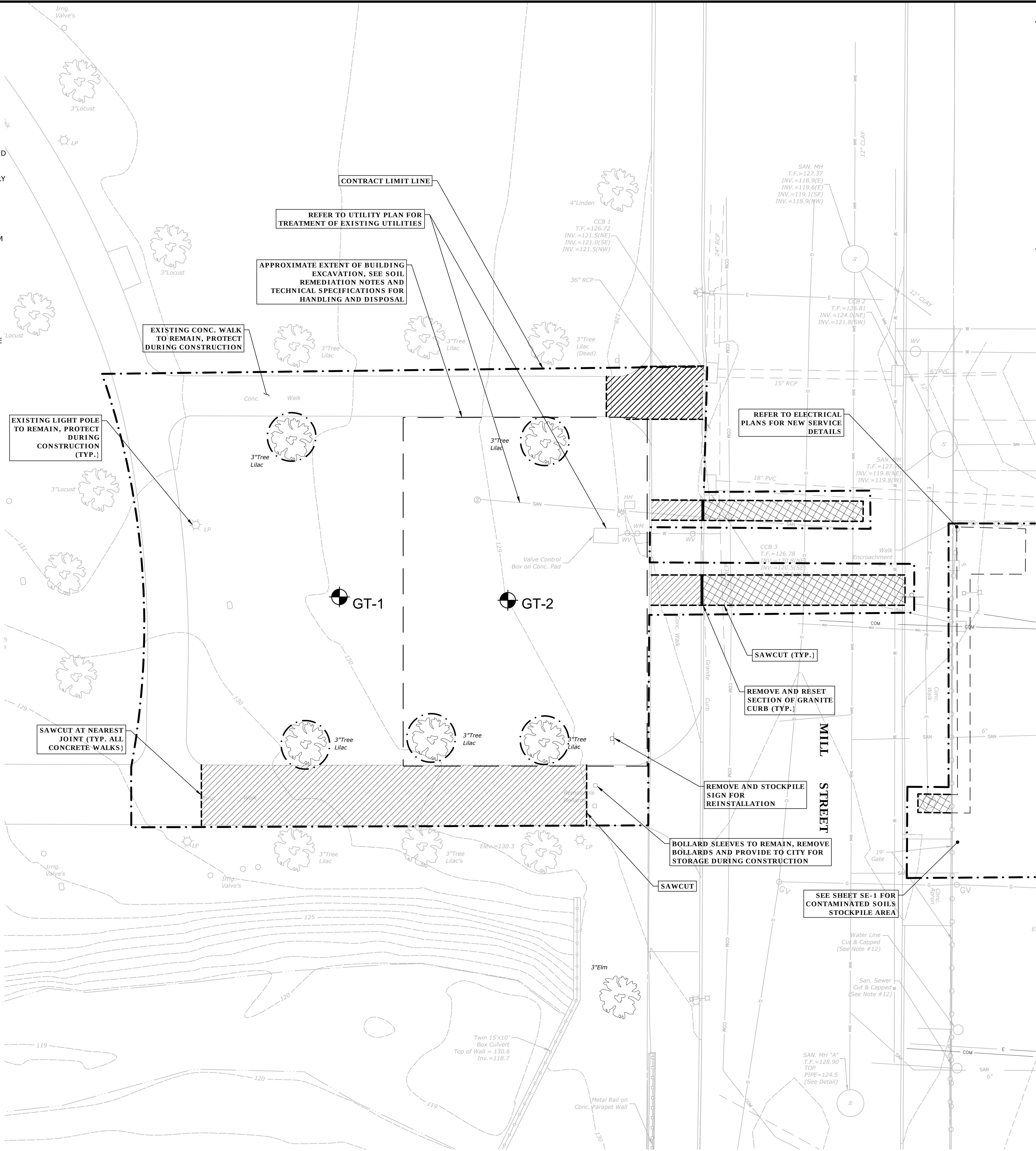
ES-0	ELECTRICAL SPECIFICATIONS & GENERAL INFORMATION
ES-1	ELECTRICAL DETAILS
ES-2	ELECTRICAL SERVICE DETAILS
ES-3	ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES
ES-4	ELECTRICAL SITE PLAN - CURRENT CONDITIONS
ES-5	ELECTRICAL SITE PLAN - FUTURE CONDITIONS

SOIL REMEDIATION NOTES:

1. THE MERIDEN GREEN WAS CONSTRUCTED WITH AN INTEGRAL CAP TO PREVENT ACCESS AND/OR EXPOSURE TO CONTAMINATED SOILS. THE CAP GENERALLY CONSISTS OF A DEMARCATION LAYER AND A 12" THICK CLEAN SOIL CAP.
2. SOIL CONTAMINATION IS DOCUMENTED IN REPORTS LISTED IN THE SPECIAL PROVISION "NOTICE TO CONTRACTOR - ENVIRONMENTAL INVESTIGATIONS".
3. CONTRACTOR SHALL REMOVE ALL SOIL FROM GROUND SURFACE TO THE DEMARCATION LAYER WITHOUT CAUSING DAMAGE TO THE DEMARCATION LAYER. HAND EXCAVATION WILL BE NECESSARY TO ACHIEVE THIS REQUIREMENT.
4. THE CLEAN SOIL REMOVED IN AS NOTED ABOVE SHALL BE STOCKPILED AND SECURED IN ACCORDANCE WITH PROJECT PLANS.
5. CONTRACTOR SHALL CAREFULLY REMOVE THE DEMARCATION BARRIER AS NECESSARY TO INSTALL UTILITIES AND/OR BUILDING FOUNDATIONS.
6. CONTRACTOR SHALL EXCAVATE CONTAMINATED SOIL (DEFINED AS THOSE SOILS THAT ARE BELOW THE DEMARCATION BARRIER) ONLY IN THOSE AREAS AS NECESSARY TO INSTALL UTILITIES AND/OR BUILDING FOUNDATIONS.
7. CONTRACTOR SHALL STOCKPILE ANY SOIL EXCAVATED IN #6 ABOVE SEPARATE FROM ANY MATERIAL EXCAVATED IN #3 ABOVE. THE CONTRACTOR SHALL TAKE ANY MEASURES NECESSARY TO ENSURE THAT CONTAMINATED SOIL IS NOT MIXED OR OTHERWISE COMES INTO CONTACT WITH CLEAN SOIL.
8. CONTRACTOR SHALL REUSE SOIL EXCAVATED IN #6 ABOVE TO THE EXTENT NECESSARY TO BACKFILL FOUNDATIONS BUT IN NO CASE SHALL REUSE BE PERMITTED CLOSER THAN 12" FROM PROPOSED FINAL GRADE.
9. CONTRACTOR SHALL INSTALL NEW DEMARCATION LAYER MATERIAL AS SHOWN IN THE PROJECT PLANS.
10. CONTRACTOR SHALL DISPOSE OF ALL EXCESS CONTAMINATED SOIL IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
11. CONTRACTOR SHALL REMOVE EXCESS CLEAN SOIL/TOPSOIL FROM SITE.

REMOVALS NOTES:

1. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER FOR DETERMINATION. THE CONTRACTOR IS EXPECTED TO PROVIDE FIELD ENGINEERING SERVICES DURING CONSTRUCTION TO ESTABLISH AND RECORD GRADES, LINES, AND ELEVATIONS. EXACT ELEVATIONS, SLOPES, AND CHANNEL SHAPES WILL BE APPROVED IN FIELD BY PROJECT ENGINEER.
3. INFORMATION SHOWN ON THIS DRAWING IS TO BE USED FOR REFERENCE ONLY. THE LOCATION, SIZE AND ELEVATIONS OF UTILITIES AND STRUCTURES AND THE NATURE OF THEIR CONTENTS SHALL BE CONFIRMED IN THE FIELD PRIOR TO DEMOLITION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DEMOLITION.
4. THE INTENT OF THIS DRAWING IS TO IDENTIFY SPECIFIC DEMOLITIONS. HOWEVER, IT MAY NOT BE A COMPREHENSIVE LIST OF ALL SITE REMOVALS.
5. ABANDONED UTILITIES ARE TO BE REMOVED UNLESS OTHERWISE NOTED.
6. CONTRACTOR TO COORDINATE ALL PROPOSED UTILITY WORK WITH APPROPRIATE UTILITY COMPANIES. THIS WORK SHALL BE DONE AT THE CONTRACTORS EXPENSE UNLESS OTHERWISE PROVIDED FOR IN THE SPECIFICATIONS. THE CONTRACTOR SHALL REMOVE OR ABANDON THE EXISTING UTILITY SERVICES AS DIRECTED AND TO THE SATISFACTION OF EACH INDIVIDUAL UTILITY COMPANY.
7. EXISTING PIPES SHALL BE COMPLETELY REMOVED OR PLUGGED AND ABANDONED IN PLACE AS NOTED ON THE PLANS OR AS NECESSARY TO COMPLETE THE PROPOSED WORK. EXISTING PIPES TO BE ABANDONED THAT ARE FOUND TO BE IN CONFLICT WITH PROPOSED SITE IMPROVEMENTS SHALL BE COMPLETELY REMOVED.
8. ALL UNDERGROUND UTILITIES NOT SHOWN TO BE REMOVED SHALL HAVE SERVICE MAINTAINED AND SHALL BE PROTECTED DURING CONSTRUCTION.
9. WORK SHALL NOT COMMENCE UNTIL APPROVED IN WRITING BY THE OWNER.
10. CONTRACTOR IS RESPONSIBLE TO OBTAIN PERMITS REQUIRED AND COMPLY WITH ALL REGULATIONS IN THE DEMOLITION AND REMOVAL OF THE DESIGNATED STRUCTURES.
11. INSTALL ALL SEDIMENT AND EROSION CONTROLS PRIOR TO BEGINNING DEMOLITION WORK.
12. ANY MATERIALS DEEMED UNSUITABLE BY THE ENGINEER SHALL BE DISPOSED OF OFF-SITE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
13. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH THE HANDLING AND DISPOSAL OF ALL MATERIALS, IF NECESSARY.
14. REFER TO SPECIFICATIONS FOR METHODS FOR STORAGE AND HANDLING OF TREES TO BE TRANSPLANTED



MAPPING REFERENCES:

1. "TOPOGRAPHIC SURVEY - WORKSHEET", SHEET 1 OF 1, CEDAR STREET, MILL STREET & PRATT STREET. PREPARED FOR THE CITY OF MERIDEN BY MILONE AND MACBROOM, INC. ON 5/7/2018, REVISED 5/14/2020. HORIZONTAL DATUM BASED ON NAD83, VERTICAL DATUM BASED ON NGVD 1929.
 2. "AS-BUILT SURVEY", DRAWING NO. AB-2, PREPARED BY LUCHS CONSULTING ENGINEERS. HORIZONTAL DATUM BASED ON NAD27, ELEVATIONS ARE BASED ON NVGD 1929.
 3. "PROPERTY & TOPOGRAPHIC SURVEY", SHEET V-1, LAND OF THE CITY OF MERIDEN, 144 PRATT STREET. PREPARED FOR BESTECH INC. OF CONN. BY DESIGN PROFESSIONALS INC ON 1/29/2019.
- NOTE 11: LOCATION OF PILES DEPICTED HEREON ARE AS SUPPLIED BY THE CONTRACTOR. PILES ARE CUT OFF APPROXIMATELY 6' BELOW EXISTING GRADE PER CONTRACTOR.
 - NOTE 12: LOCATION OF CUT AND CAPPED SANITARY SEWER AND WATER LINES DEPICTED HEREON ARE APPROXIMATE, AND WERE SUPPLIED BY THE CONTRACTOR.

REFERENCES:

SEE PROJECT MANUAL FOR GEOTECHNICAL REPORT DATED FEBRUARY 25, 2022 FOR BORING LOGS.

LEGEND

	WATERCOURSE
	CHAIN LINK FENCE
	WATER LINE
	ELECTRIC LINE
	SANITARY LINE
	STORM SEWER PIPE
	GAS LINE
	COMMUNICATION LINE
	SANITARY MANHOLE
	TELEPHONE MANHOLE
	ELECTRIC MANHOLE
	MANHOLE
	CATCH BASIN
	WATER VALVE
	GAS VALVE
	HAND HOLE
	HYDRANT
	LIGHT POST
	SIGN
	IRRIGATION VALVE
	CONTOUR (1' INTERVAL)
	CONTOUR (5' INTERVAL)
	METAL FENCE/RAILING
	DECIDUOUS TREE

REMOVALS LEGEND

	REMOVE CONCRETE PAVEMENT
	REMOVE BITUMINOUS CONCRETE
	REMOVE GRANITE CURB, STOCKPILE FOR REINSTALLATION
	SAWCUT PAVEMENT
	TREE TO BE TRANSPLANTED WHERE DIRECTED BY THE CITY
	BORING LOCATION
	APPROXIMATE AREAS OF EXCAVATION

99 REALTY DRIVE
SUITE 200
203211771
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE PLAN - EXISTING CONDITIONS AND REMOVALS

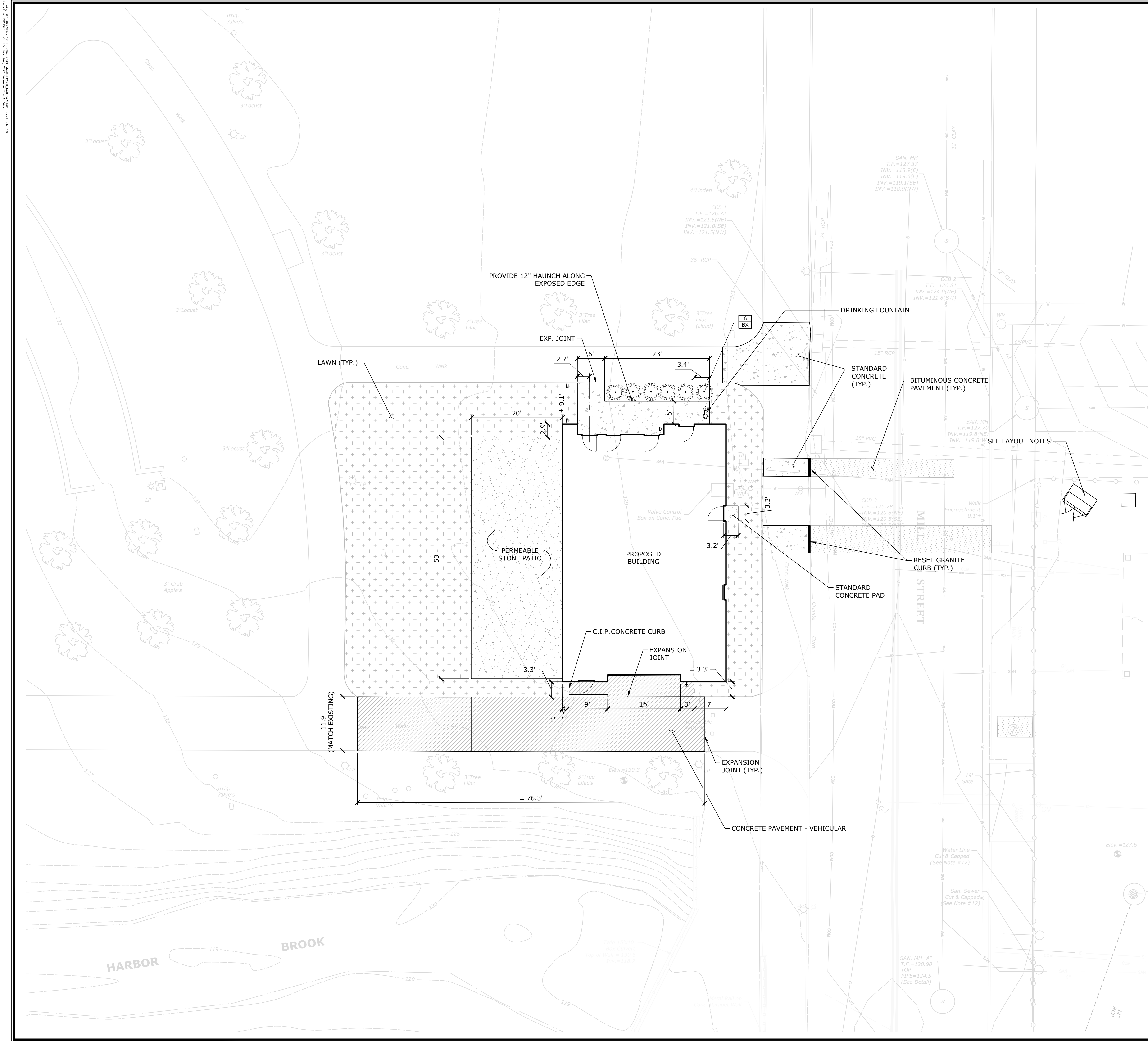
CONSTRUCTION OF NEW RESTROOM AND FACILITIES STORAGE BUILDING AT THE MERIDEN GREEN

MILL STREET
MERIDEN, CONNECTICUT

SRS DESIGNED	NK DRAWN	SRS CHECKED
SCALE 1"=10'		
DATE OCTOBER 14, 2022		
PROJECT NO. 11261.00094		
SHEET NO. C2.0		

SHEET NAME

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PLANT SCHEDULE				
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE
BX	6	Buxus sempervirens	Winter Green	18"-24" HT.

- LAYOUT NOTES**
- SLR INTERNATIONAL CORPORATION, INC. (SLR) ACCEPTS NO RESPONSIBILITY FOR MAPS AND DATA THAT HAVE BEEN PREPARED AND SUPPLIED BY OTHERS.
 - LAYOUT CRITERIA AND DIMENSIONS FOR BUILDINGS ARE NOT SHOWN ON THIS PLAN. ALL BUILDINGS SHALL BE LOCATED BY A CONNECTICUT LICENSED SURVEYOR AND COORDINATED WITH THE FOUNDATION PLANS SUPPLIED BY THE ARCHITECT OR THEIR CONSULTANT. ALL FOUNDATION PLANS SHALL BE PROVIDED TO THE SURVEYOR AND THE ENGINEER AT THE TIME OF STAKE-OUT REQUEST.
 - CONCRETE SIDEWALKS, ENTRY AREAS, AND TERRACES SHALL INCORPORATE EXPANSION JOINTS, SCORE JOINTS, AND CONSTRUCTION JOINTS PER THE SPECIFICATIONS AND DETAILS, TYPICALLY NO MORE THAN 144 SQUARE FEET SHALL CONSTITUTE A CONTIGUOUS SLAB. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR JOINTING PERTAINING TO THESE DISCIPLINES.
 - ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - FOR DETAILED INFORMATION PERTAINING TO PROPOSED BUILDING, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
 - IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROAD/SIDEWALK AND/OR CURBS THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING SITE AMENITY.
 - THE LOCATION OF THE NEW ELECTRICAL SERVICE CABINET MUST BE COORDINATED IN THE FIELD WITH THE LANDSCAPE ARCHITECT AND CITY ENGINEER. REFER TO ELECTRICAL PLANS FOR MORE DETAILS.

- PLANTING NOTES**
- ALL PLANTING BEDS SHALL HAVE 12" MINIMUM DEPTH OF TOPSOIL.
 - THE LANDSCAPE CONTRACTOR SHALL PROVIDE A 4" MIN. DEPTH OF SHREDDED MULCH OVER ALL PLANTING BEDS AND TREE PLANTINGS. NO DYED MULCH SHALL BE ACCEPTED.
 - GRADE OF PLANTING BED SOILS SHALL BE SET SO THAT MULCH IS AT OR BELOW ELEVATION OF ADJACENT PAVEMENT
 - ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO AND AFTER PLANTING.
 - PLANT SPECIES MAY BE ADJUSTED BASED ON AVAILABILITY AT TIME OF PLANTING. ALL PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.
 - ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
 - MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
 - THE CONTRACTOR SHALL REMOVE TREE STAKES AFTER ONE GROWING SEASON.
 - LAWN BLEND SHALL BE AS FOLLOWS:
25% AMERICA KENTUCKY BLUEGRASS
15% LANGARA KENTUCKY BLUEGRASS
15% ARMADA KENTUCKY BLUEGRASS
15% WINDWARD CHEWINGS FESCUE
15% GARNET CREEPING FESCUE
15% FIESTA 4 PERENNIAL RYEGRASS
- AS PROVIDED BY THE CHAS. C. HART SEED CO., WETHERSFIELD, CT, 860-529-2537, OR APPROVED EQUIVALENT

DESCRIPTION	DATE	BY

SITE PLAN - LAYOUT AND MATERIALS

CONSTRUCTION OF NEW RESTROOM AND FACILITIES STORAGE BUILDING AT THE MERIDEN GREEN

MILL STREET
MERIDEN, CONNECTICUT

SRS
DESIGNED

NK
DRAWN

SRS
CHECKED

1"=10'

OCTOBER 14, 2022

DATE

11261.00094

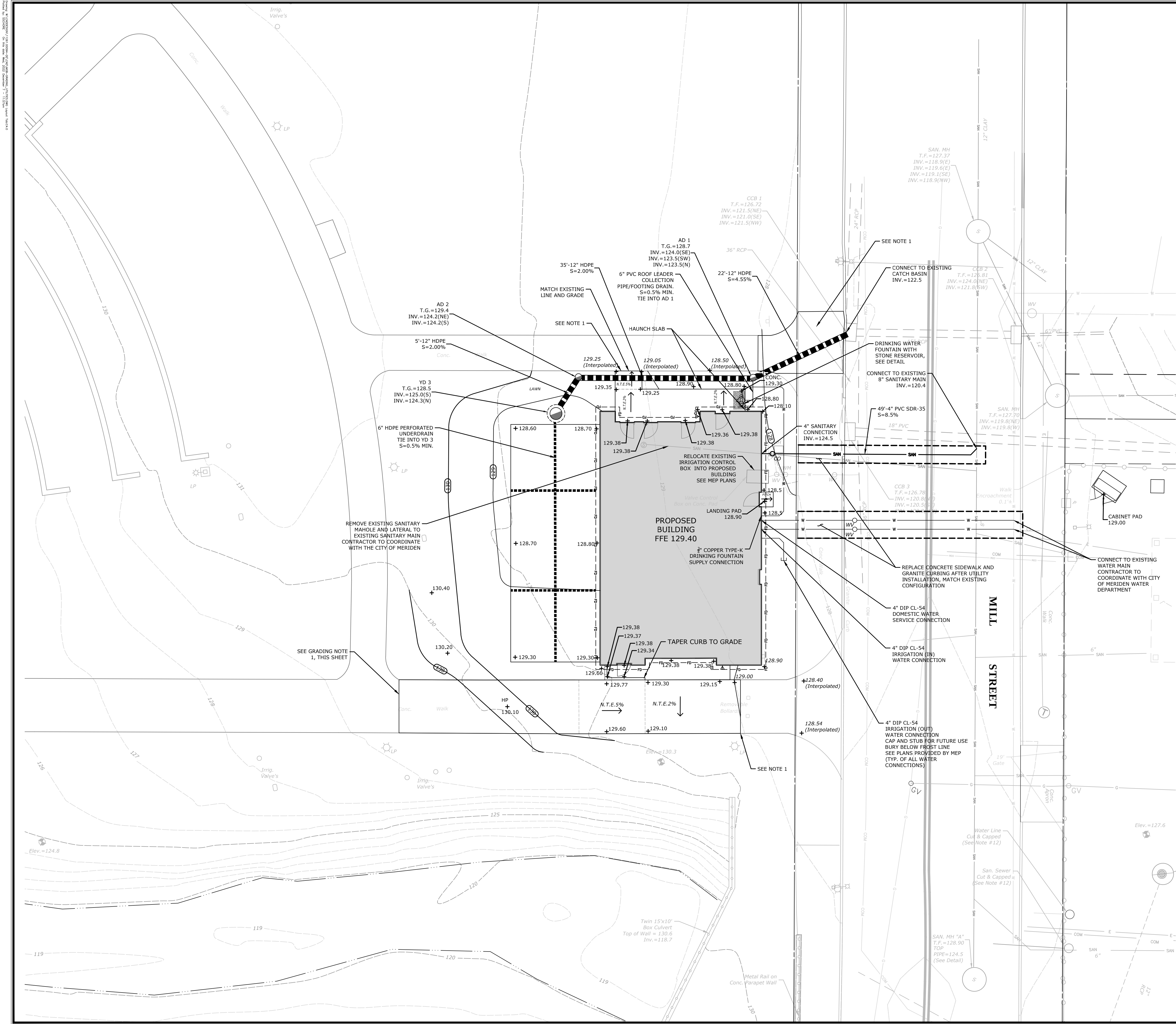
PROJECT NO.

SHEET NO.

C3.0

SHEET NAME

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GRADING NOTES:

1. CONTRACTOR SHALL VERIFY ALL SPOT ELEVATIONS AT PROPOSED SAW CUT LOCATIONS PRIOR TO REMOVALS TO VERIFY THAT SLOPES SHALL MEET THE REQUIREMENTS OF NOTE 2, THIS SHEET. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. ACCESSIBLE ROUTE SLOPES SHALL BE 1:20 (5%) OR LESS AND THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/4 INCH, AND SLOPES SHALL NOT BE GREATER THAN 1:20 UNLESS RAMPS OR LIFTS ARE PROVIDED.
3. ALL ACCESSIBLE DOORS SHOWN ARE .02" DIFFERENCE IN ELEVATION FROM EXTERIOR TO INTERIOR FINISHED FLOOR ELEVATIONS. LINES AT ACCESSIBLE DOORS DO NOT INDICATE A CHANGE IN ELEVATION GREATER THAN .02".
4. IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROAD/SIDEWALK AND/OR CURBS THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING SITE.

LEGEND

- | | |
|----------------------|-------------------------------|
| + 70.5 | PROPOSED SPOT ELEVATION |
| ---70--- | EXISTING CONTOUR |
| ---124--- | PROPOSED CONTOUR |
| TC 120.0
BC 119.5 | TOP OF CURB
BOTTOM OF CURB |
| N.T.E. | NOT TO EXCEED |

UTILITY NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING IRRIGATION SPRAY HEADS, LATERAL IRRIGATION LINES AND CONTROL VALVE. CONTRACTOR SHALL CUT AND CAP THE EXISTING LATERALS AT A POINT THAT IS OUTSIDE THE SCOPE OF WORK AND MARK THE LOCATION. PRIOR TO PROJECT COMPLETION THE CONTRACTOR SHALL REINSTALL THE LATERALS AND SPRAY HEADS TO PROVIDE 100 PERCENT COVERAGE TO ALL REMAINING GRASS AREAS.
2. REFER TO PROJECT MANUAL FOR SHEET IR-2 "IRRIGATION PLAN" DATED NOVEMBER 2012 FOR INSTALLED EQUIPMENT THAT MAY BE IMPACTED
3. COORDINATION SHALL BE MADE WITH MEP PLANS FOR ALL UTILITY SERVICE LOCATIONS.
4. REFER TO MEP PLANS FOR ALL SERVICE CONNECTION LOCATIONS AND ELEVATIONS AT THE PROPOSED BUILDING, INCLUDING BUT NOT LIMITED TO ROOF LEADER CONNECTIONS, WATER, GAS, SANITARY, AND ELECTRICAL SERVICES.
5. ALL PROPOSED PIPE LENGTHS HAVE BEEN MEASURED FROM OUTER WALL-TO-OUTER WALL OF STRUCTURE.
6. LOCATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE.
7. TV INSPECT ALL EXISTING SANITARY & STORM PIPING TO REMAIN.
8. SEE ELECTRICAL PLANS FOR LOCATION OF CONDUIT RUNS AND PROPOSED SERVICE LOCATION

99 REALTY DRIVE
SUITE 100
20121171
SILICONCONSULTING.COM

DESCRIPTION	DATE	BY
UTILITY REMOVAL / REPLACEMENT	11/11/2022	RH

SITE PLAN - GRADING AND UTILITIES

CONSTRUCTION OF NEW RESTROOM AND FACILITIES STORAGE BUILDING
AT THE MERIDEN GREEN

MILL STREET
MERIDEN, CONNECTICUT

SK	SK	RYE
DESIGNED	DRAWN	CHECKED

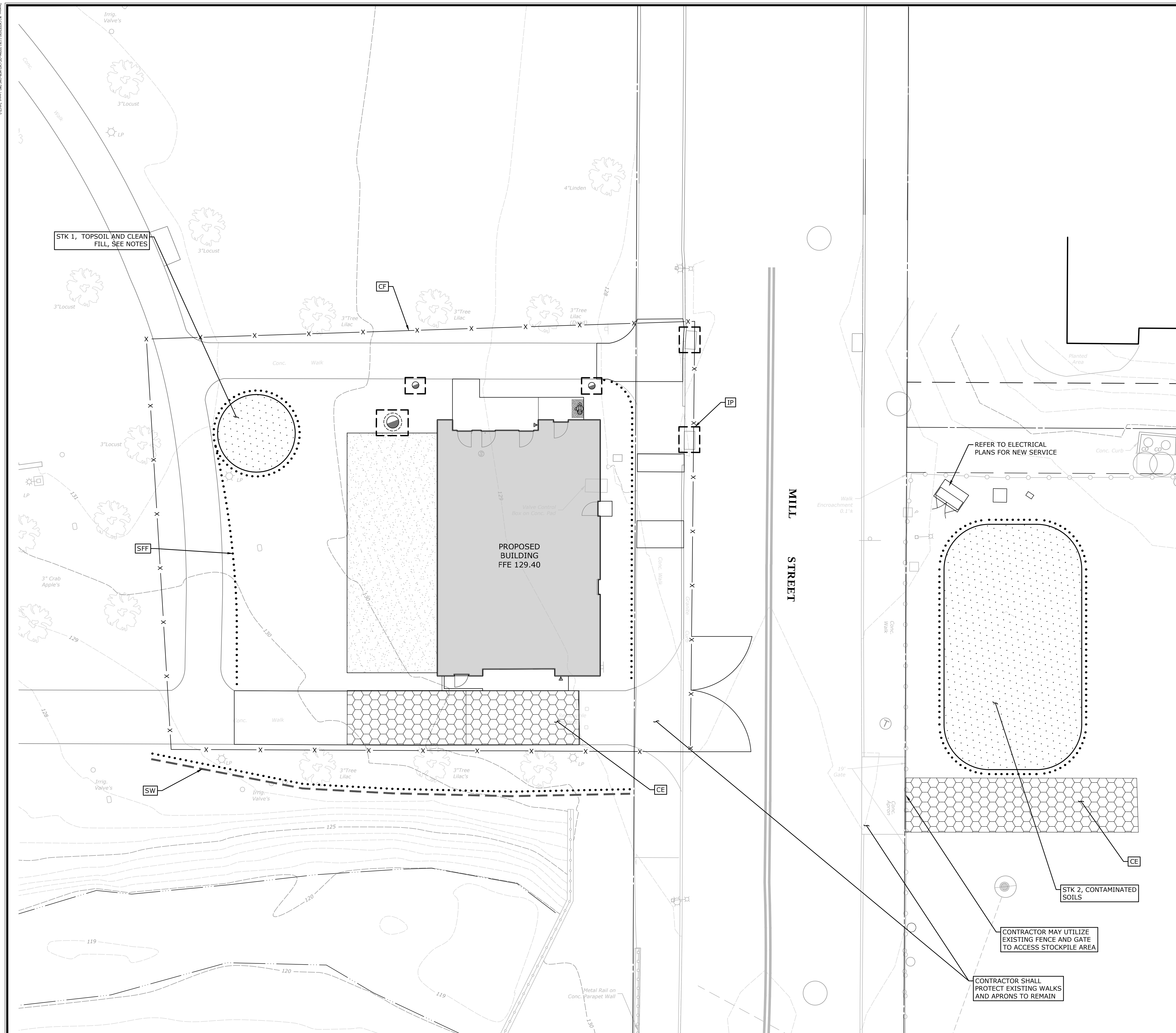
SCALE
1"=10'

DATE
OCTOBER 14, 2022

PROJECT NO.
11261.00094

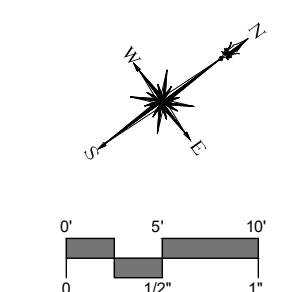
SHEET NO.
C4.0

SHEET NAME



SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

EROSION CONTROL LEGEND

[illegible]

SITE PLAN - SEDIMENT & EROSION CONTROL

BID DOCUMENTS

SK (SIGNED)	SK (DRAWN)	RYE (CHECKED)
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1"=10'

SCALE

OCTOBER 14, 2022

DATE

11261.00094

PROJECT NO.

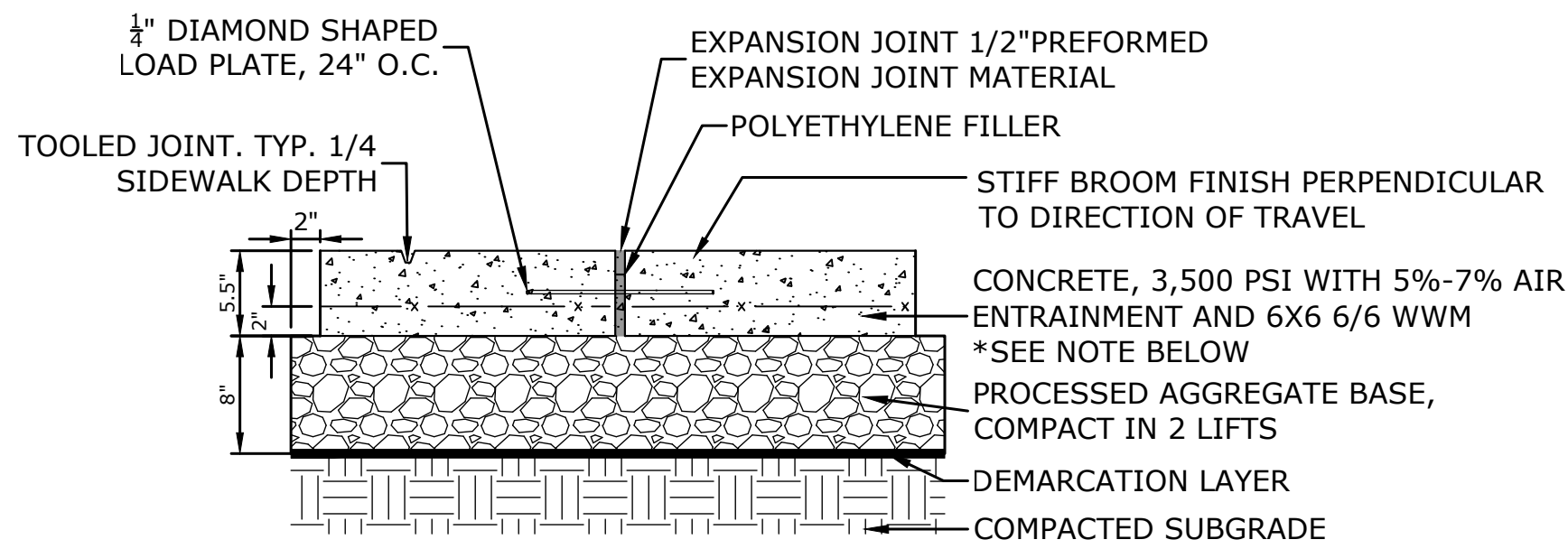
SHEET NO.

C5.0

SHEET NAME

Downloaded by: W:\CAG05\SMN\11261.00394-02\CAG05\MSB-DETAILS.DWG (Logon: T0005.1)
 Plotted by: SSC003E On this date: Wed, 2022 December 7 - 11:57am

10/21/11 - 2. Revised 2022, New York City
10/21/11 - 2. Revised 2022, New York City
10/21/11 - 2. Revised 2022, New York City

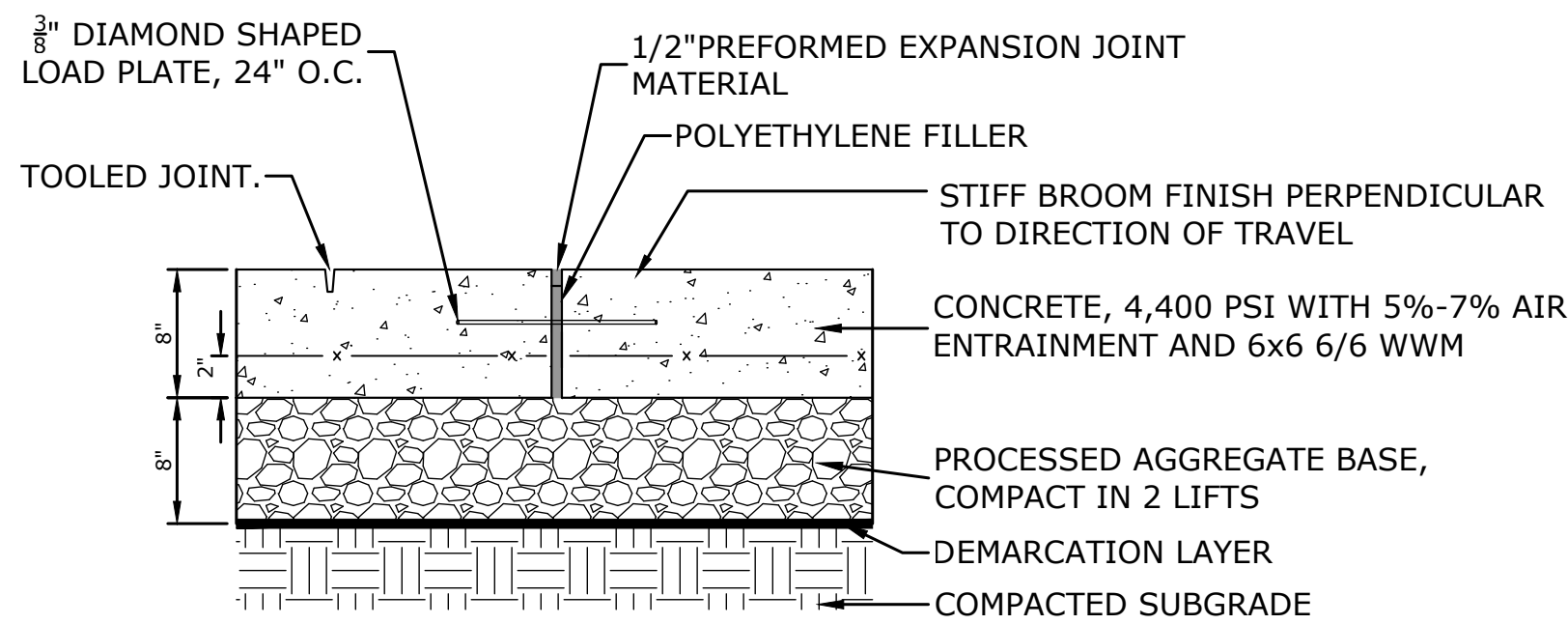


NOTES:

1. CROSS-PITCH OF WALK SHALL NOT EXCEED 1/4" PER 12"
2. WALKS SHALL BE FORMED WITH 2 x 6" LUMBER OR 5 1/2" TALL METAL OR WOOD FORMS
3. EXP. JOINTS 20' O.C. MAX. CONTROL JOINTS 5' O.C. TYP. (OR AS SHOWN ON PLANS)
4. PROVIDE EXPANSION JOINT AT ALL CONSTRUCTION JOINT, SAWCUT, AND OTHER LOCATIONS WHERE CONCRETE ABUTS EXISTING CONCRETE.
5. CONTRACTOR SHALL UTILIZE SUPPORT CHAIRS WHEN PLACING AND INSTALLING W.W.F. (TYP. ALL CONCRETE)

STANDARD CONCRETE PAVEMENT

NOT TO SCALE

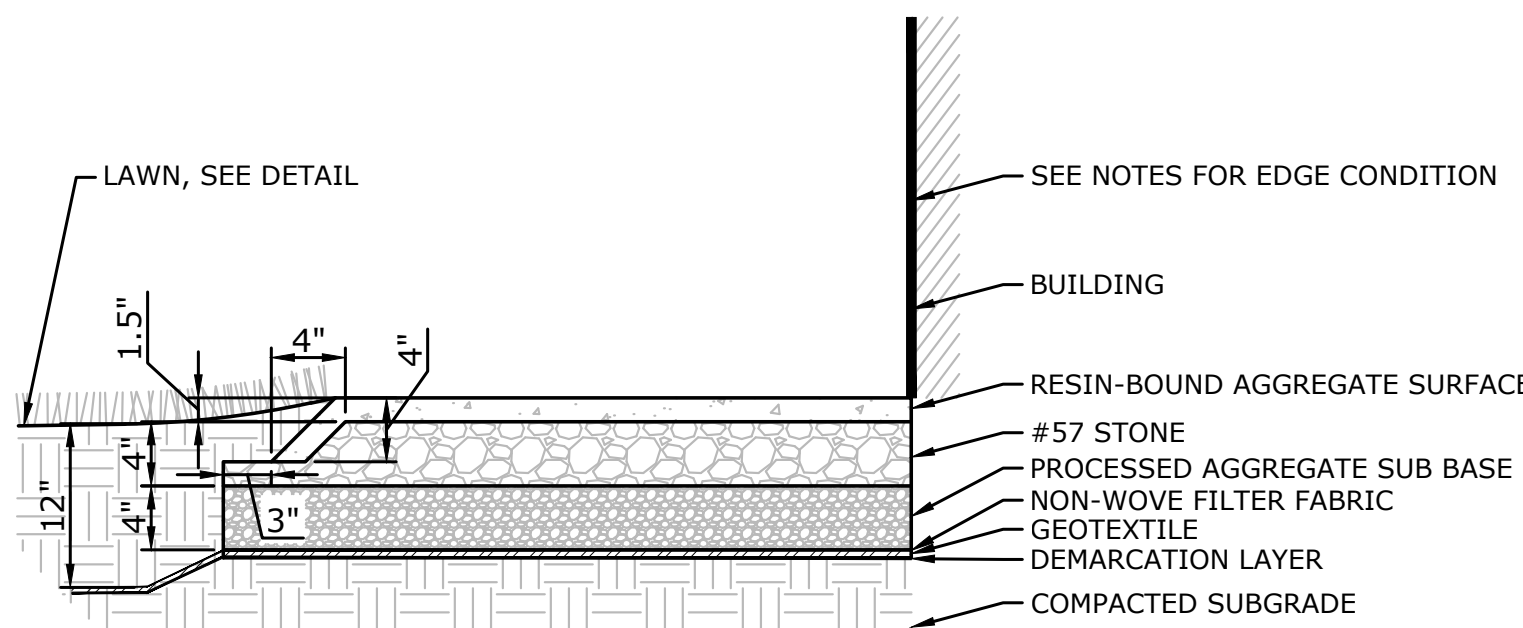


NOTES:

1. SEE STANDARD CONCRETE PAVEMENT DETAIL FOR TYPICAL NOTES

VEHICULAR CONCRETE PAVEMENT

NOT TO SCALE

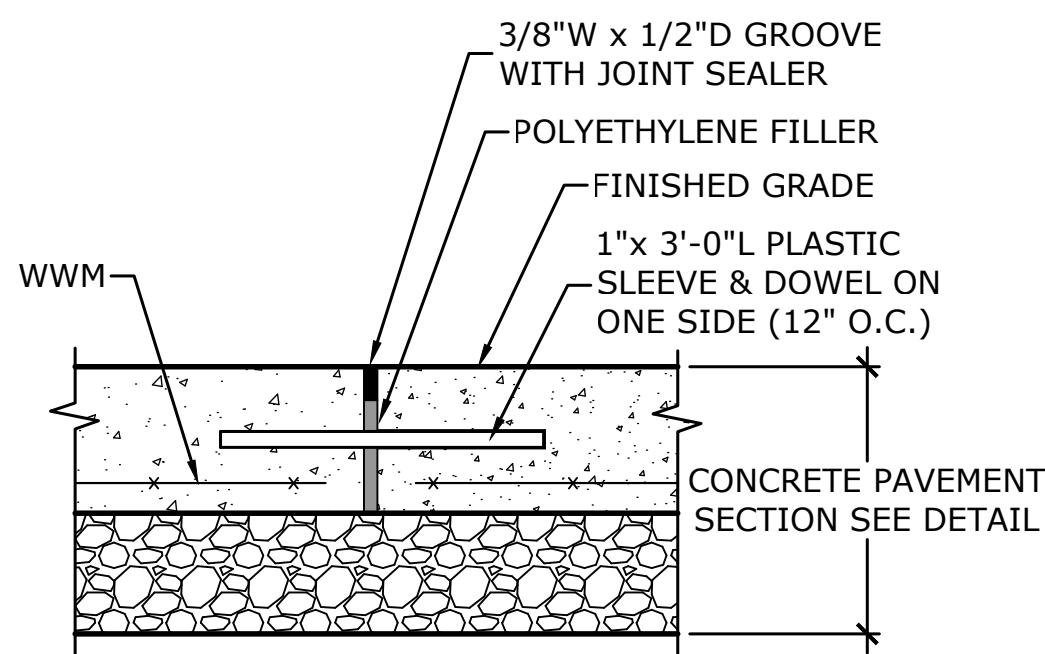


NOTES:

1. INSTALL RIGID FOAM CONTROL JOINT MATERIAL AT FACE OF BUILDING, REMOVE AFTER A FULL CURE AND FILL VOID WITH ELASTIC CONSTRUCTION ADHESIVE, TOP WITH AGGREGATE TO MATCH ADJACENT SURFACE FINISH BY SWEEPING TO REMOVE EXCESS.
2. REFER TO SPECIFICATIONS FOR PRODUCT DETAILS.
3. SEE DETAIL SHEET C6.1 FOR PROPOSED UNDERDRAIN.

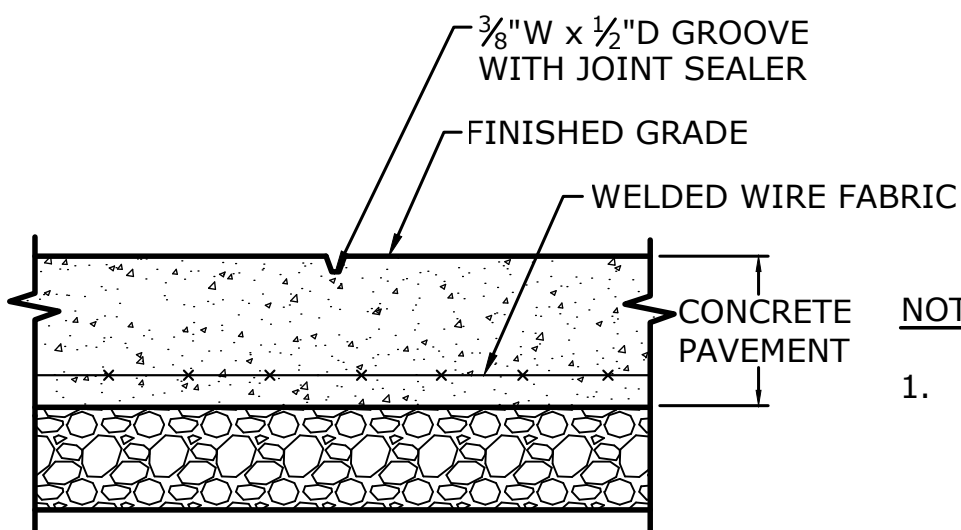
PERMEABLE STONE PATIO

NOT TO SCALE



EXPANSION JOINT

N.T.S.

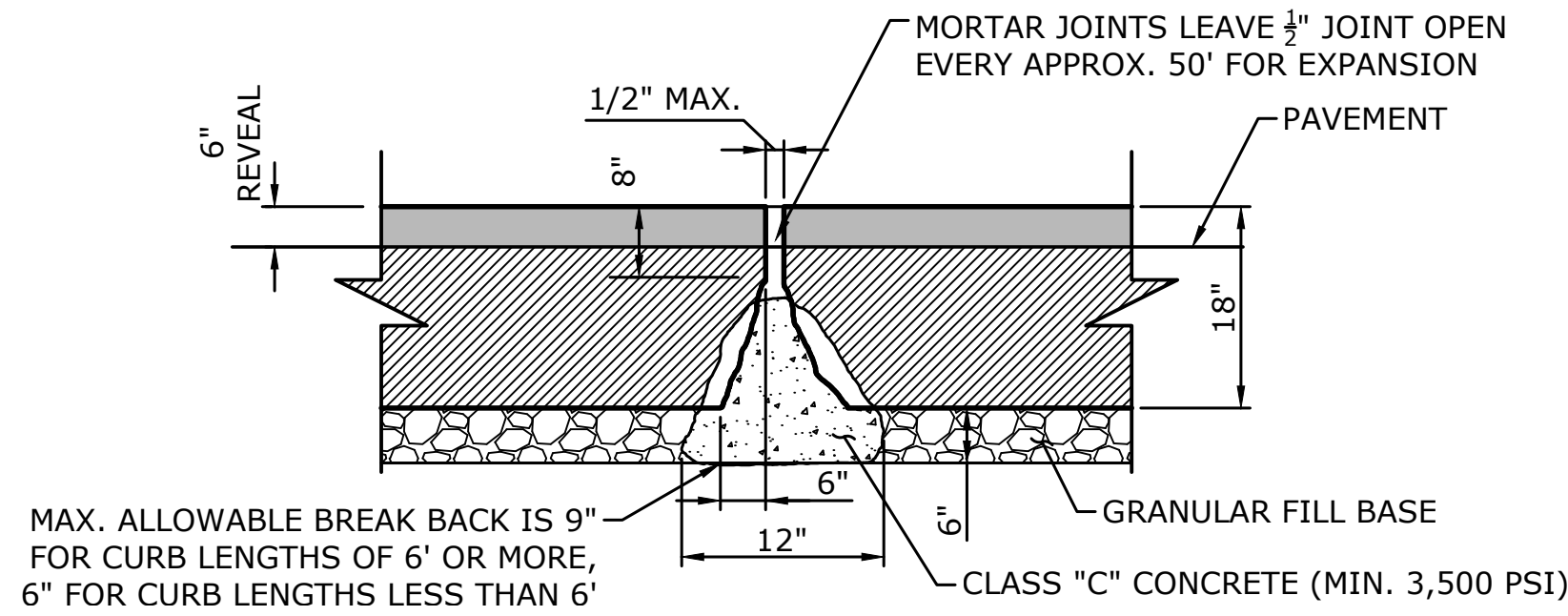


SCORE JOINT

N.T.S.

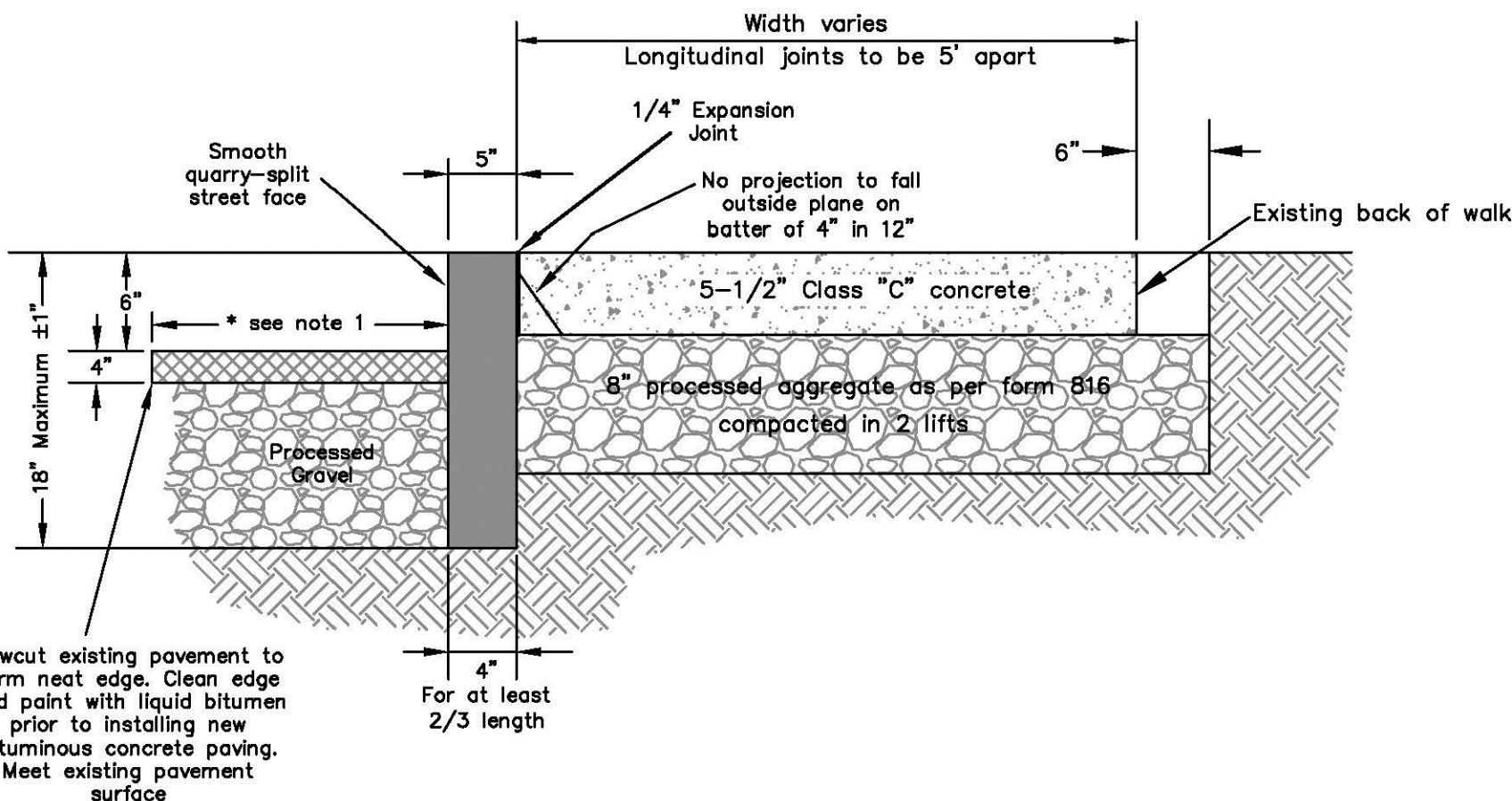
NOTES:

1. PROVIDE EXPANSION JOINT AT ALL CONSTRUCTION JOINT, SAWCUT, AND OTHER LOCATIONS WHERE CONCRETE ABUTTS EXISTING CONCRETE.



TYPICAL JOINT DETAIL FOR GRANITE CURBING

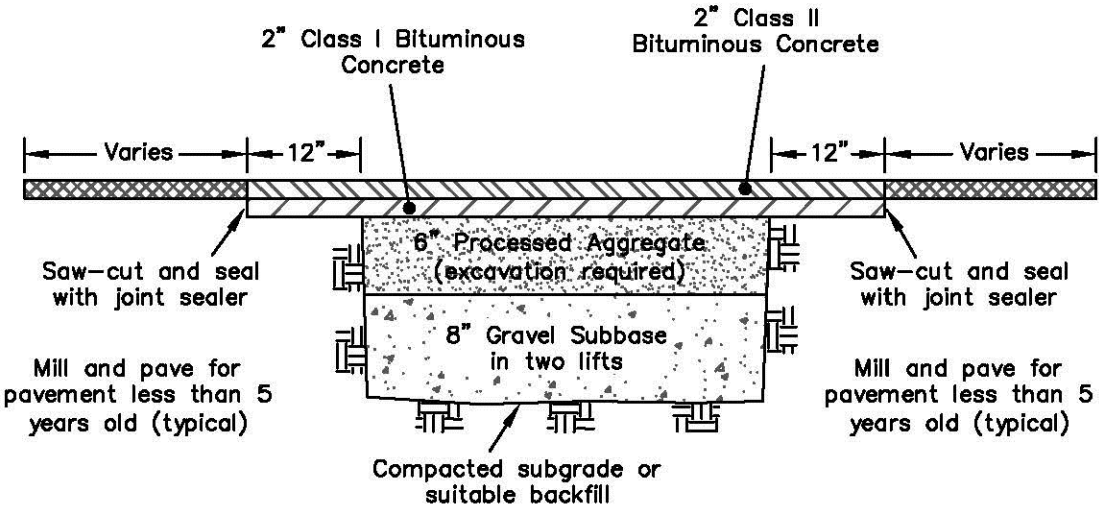
NOT TO SCALE



Granite Curbing

(N.T.S.)

PER CITY OF MERIDEN ENGINEERING DEPARTMENT

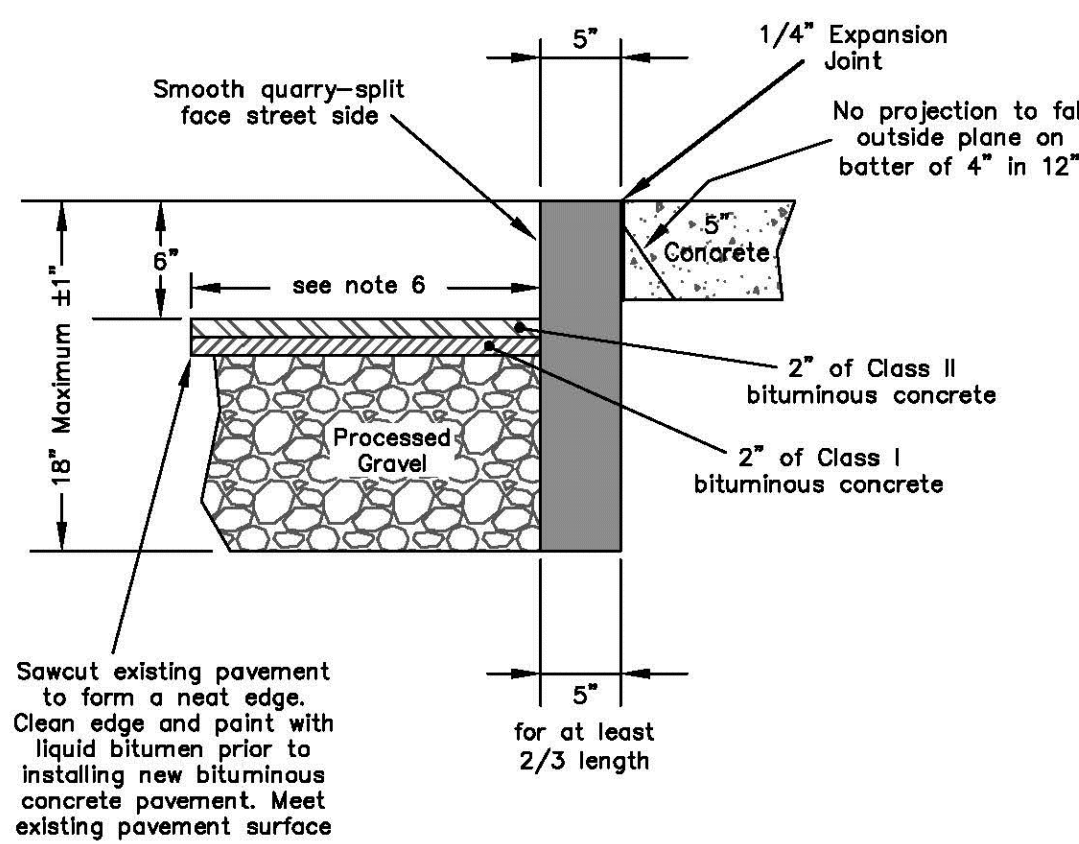


NOTE: Match existing pavement thickness up to 9" with Class I bituminous concrete in 3" maximum lifts.

Permanent Pavement Repair Detail

Not To Scale

PER CITY OF MERIDEN ENGINEERING DEPARTMENT



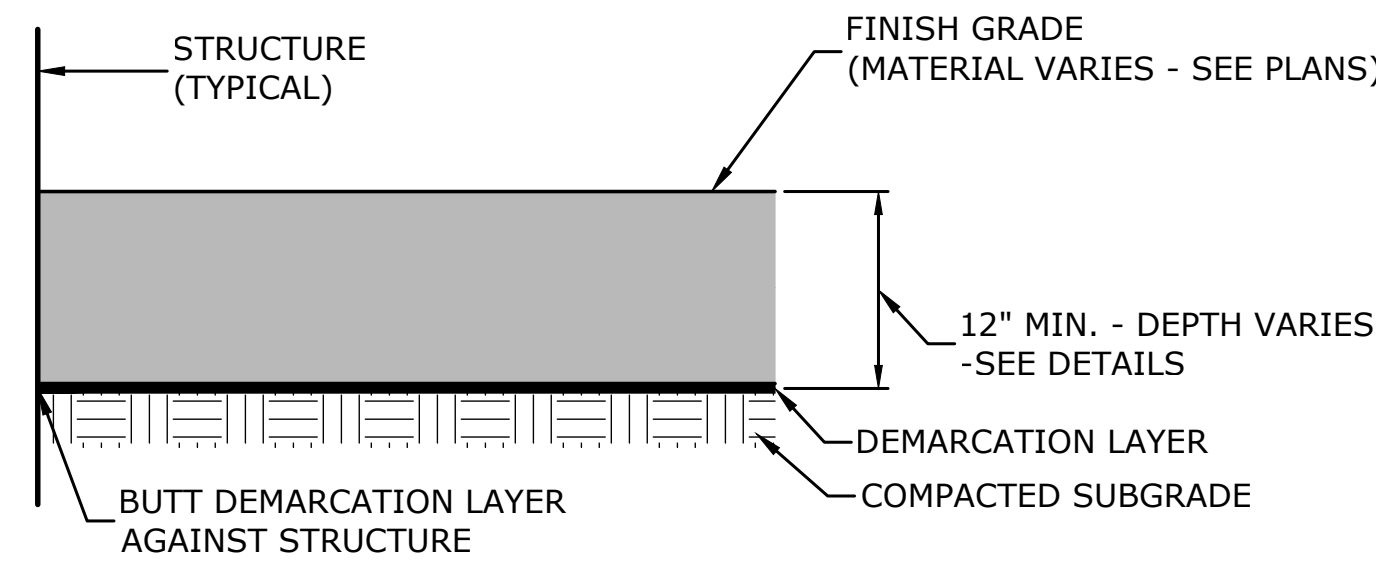
Reset Granite Curbing Detail

Not To Scale

PER CITY OF MERIDEN ENGINEERING DEPARTMENT

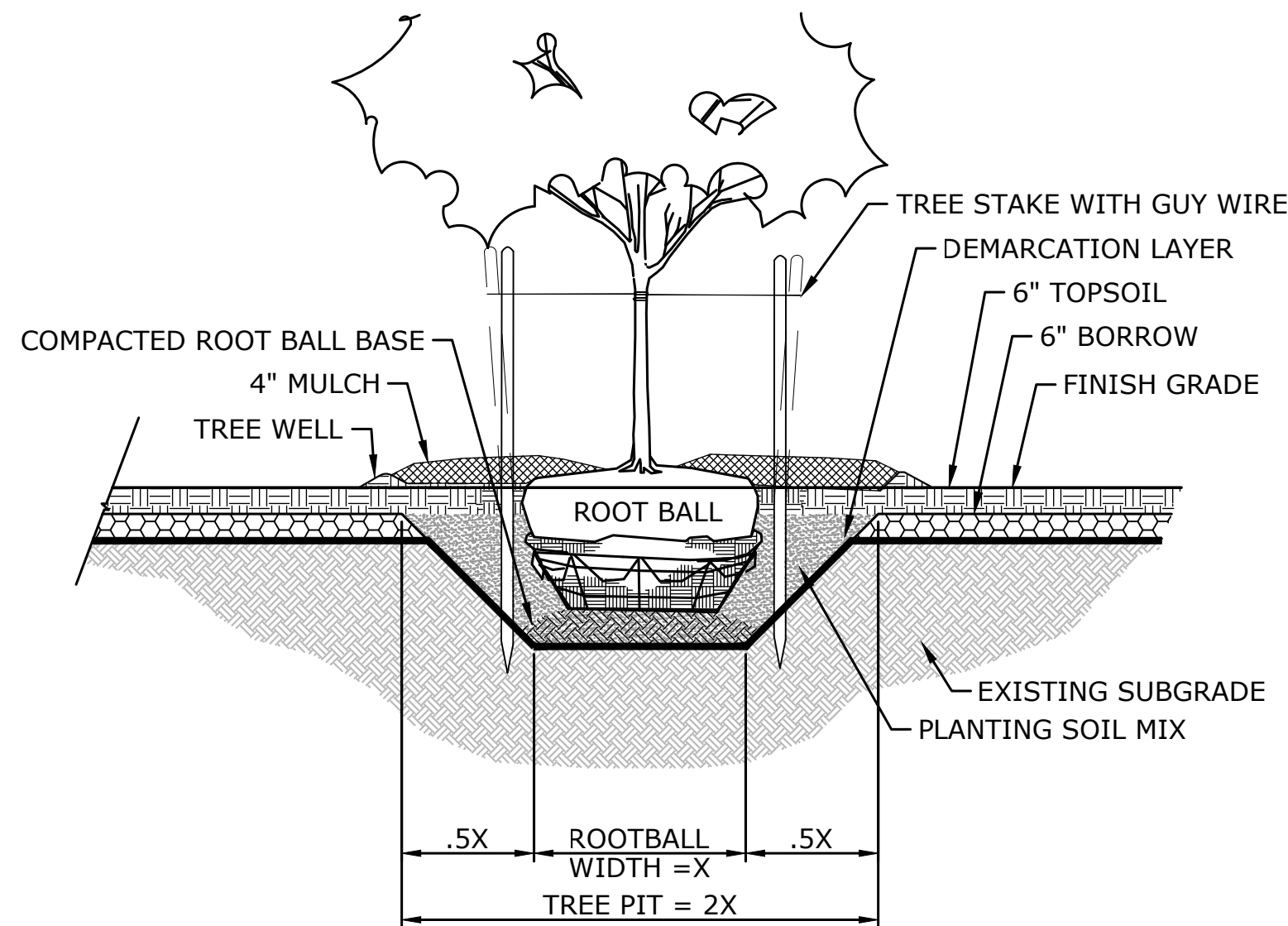
ROADWAY STANDARD NOTES: PER CITY OF MERIDEN ENGINEERING DEPARTMENT

1. The Contractor shall contact "Call Before You Dig" at 1-800-922-4455 for location and marking of all existing utilities prior to any excavation.
2. The City Public Works Facility Inspector must be notified by the Contractor a minimum of 48 hours prior to beginning construction.
3. Multiple pavement repair locations are to be a minimum of 10 feet apart from any adjacent repair. If less than 10 feet apart, a continuous section must be replaced. Milling is acceptable outside the patch repair limits.
4. All repairs to streets with a pavement surface less than 5 years old are to extend to the full width of the travel lane or to the edge of the roadway.
5. Temporary patches shall be in place a minimum of 6 months, including one winter / spring season.
6. Patch area must be wide enough to accommodate mechanical compaction equipment.



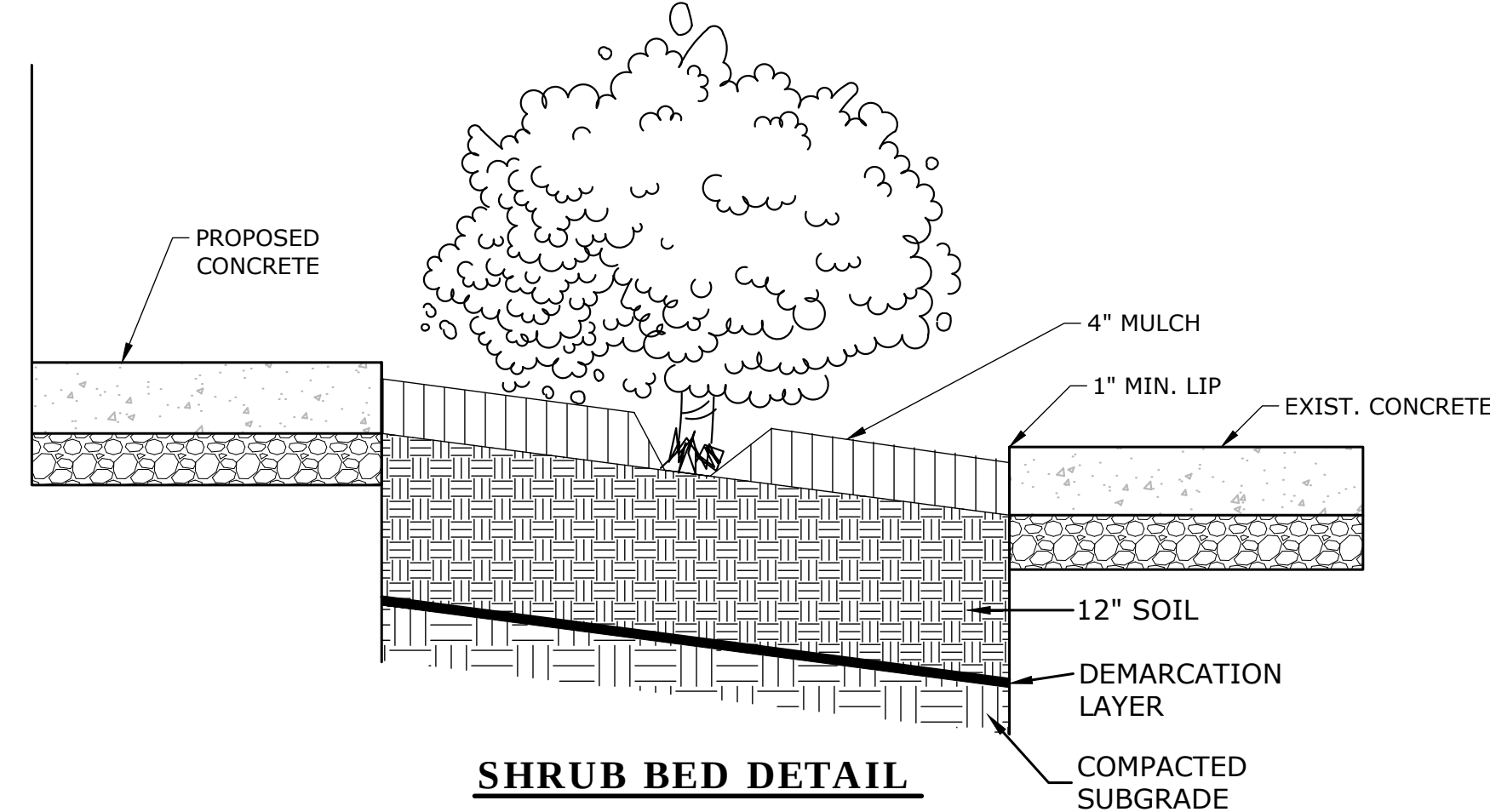
DEMARCATION LAYER AT STRUCTURE - TYPICAL

NOT TO SCALE



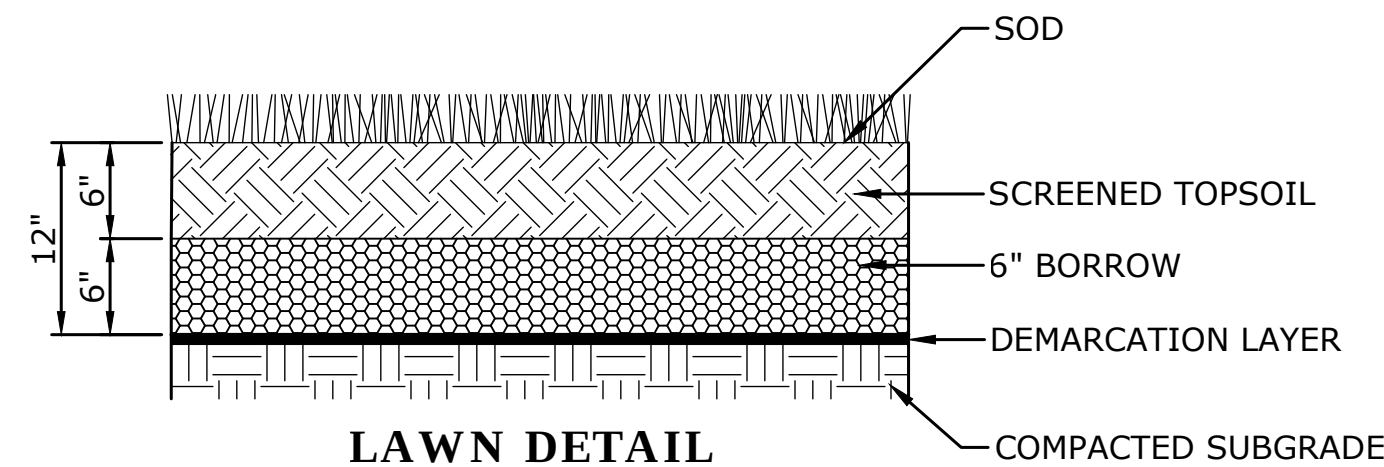
TYPICAL TREE PLANTING DETAIL

NOT TO SCALE



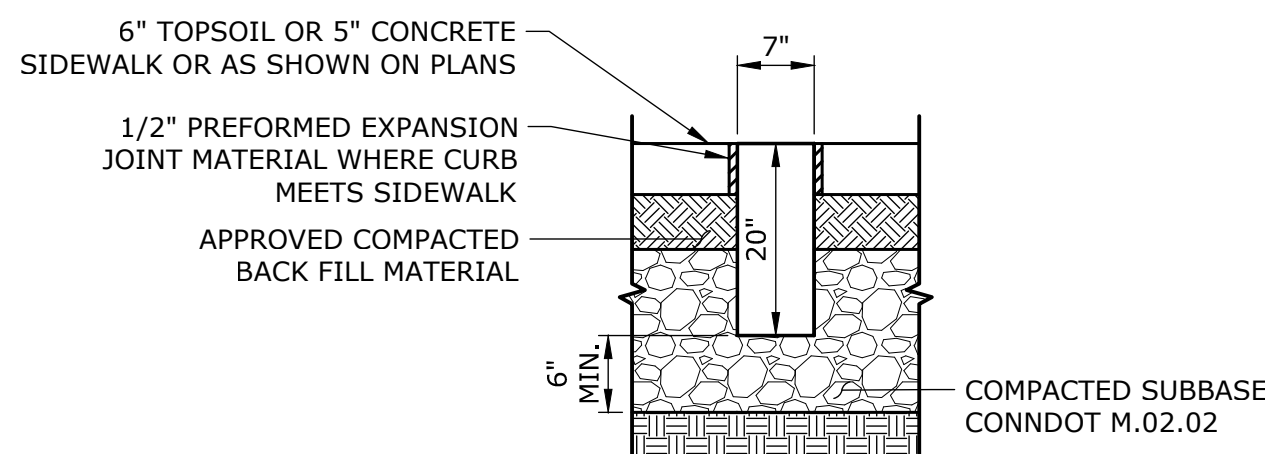
SHRUB BED DETAIL

NOT TO SCALE



LAWN DETAIL

NOT TO SCALE



CAST-IN-PLACE CONCRETE CURB

NOT TO SCALE



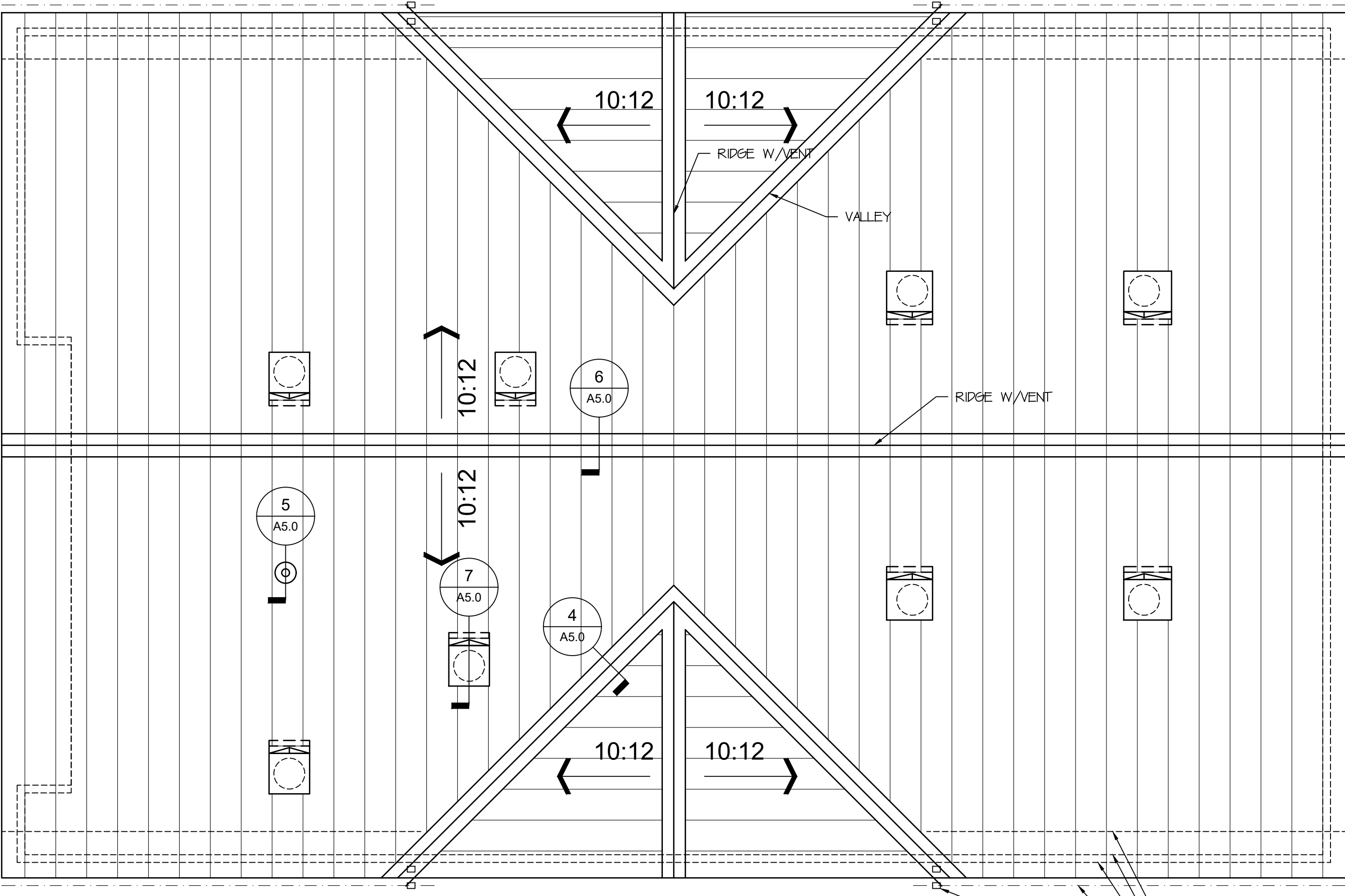
DESCRIPTION	DATE	BY

SITE DETAILS	BID DOCUMENTS
CONSTRUCTION OF NEW RESTROOM AND FACILITIES STORAGE BUILDING AT THE MERIDEN GREEN	
MILL STREET	
MERIDEN, CONNECTICUT	

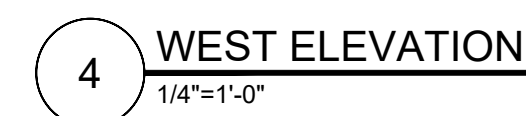
SRS	NK	SRS
DESIGNED	DRAWN	CHECKED
SCALE	N.T.S.	
DATE	OCTOBER 14, 2022	
PROJECT NO.	11261.00094	
SHEET NO.		
	C6.0	
SHEET NAME		

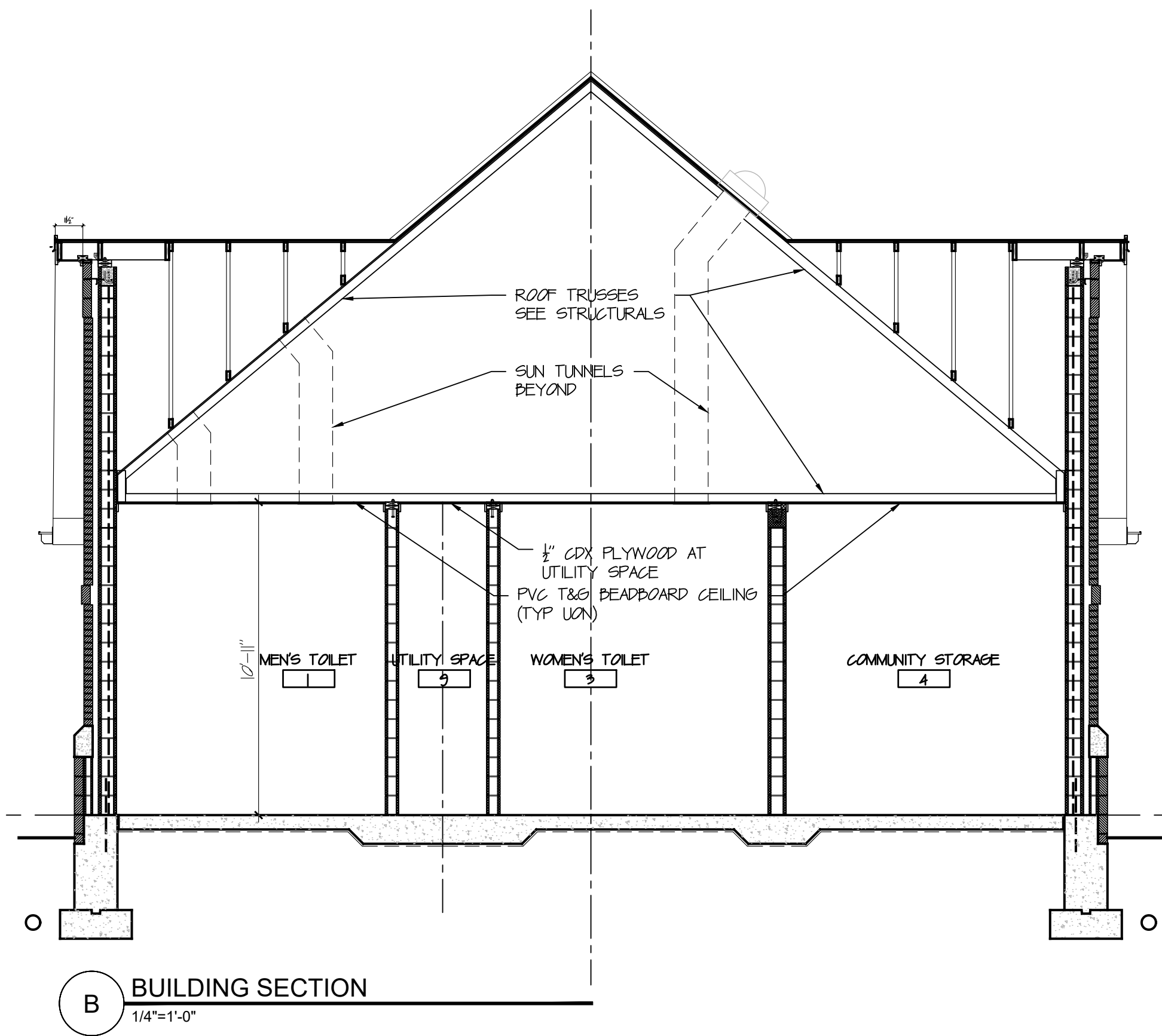
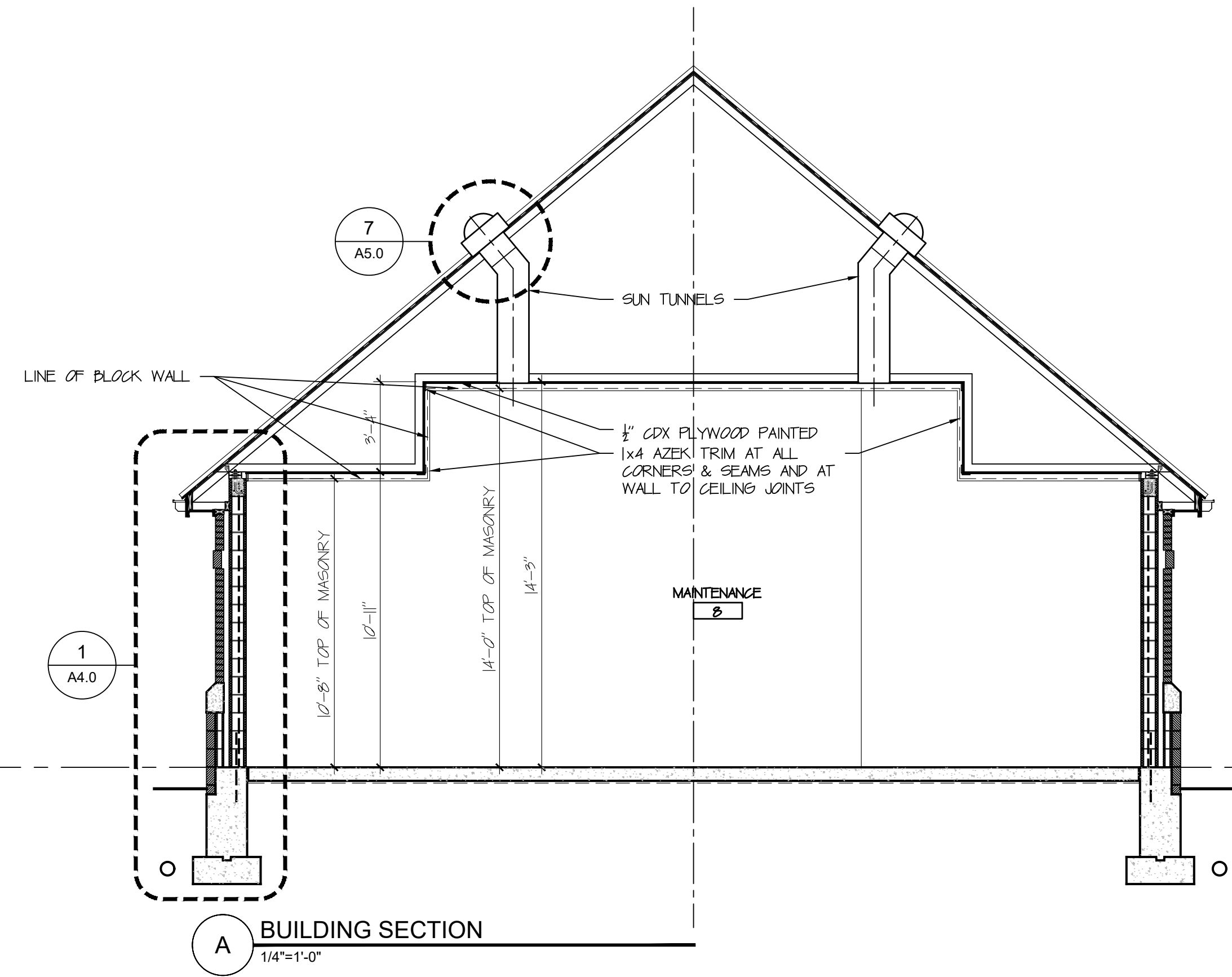
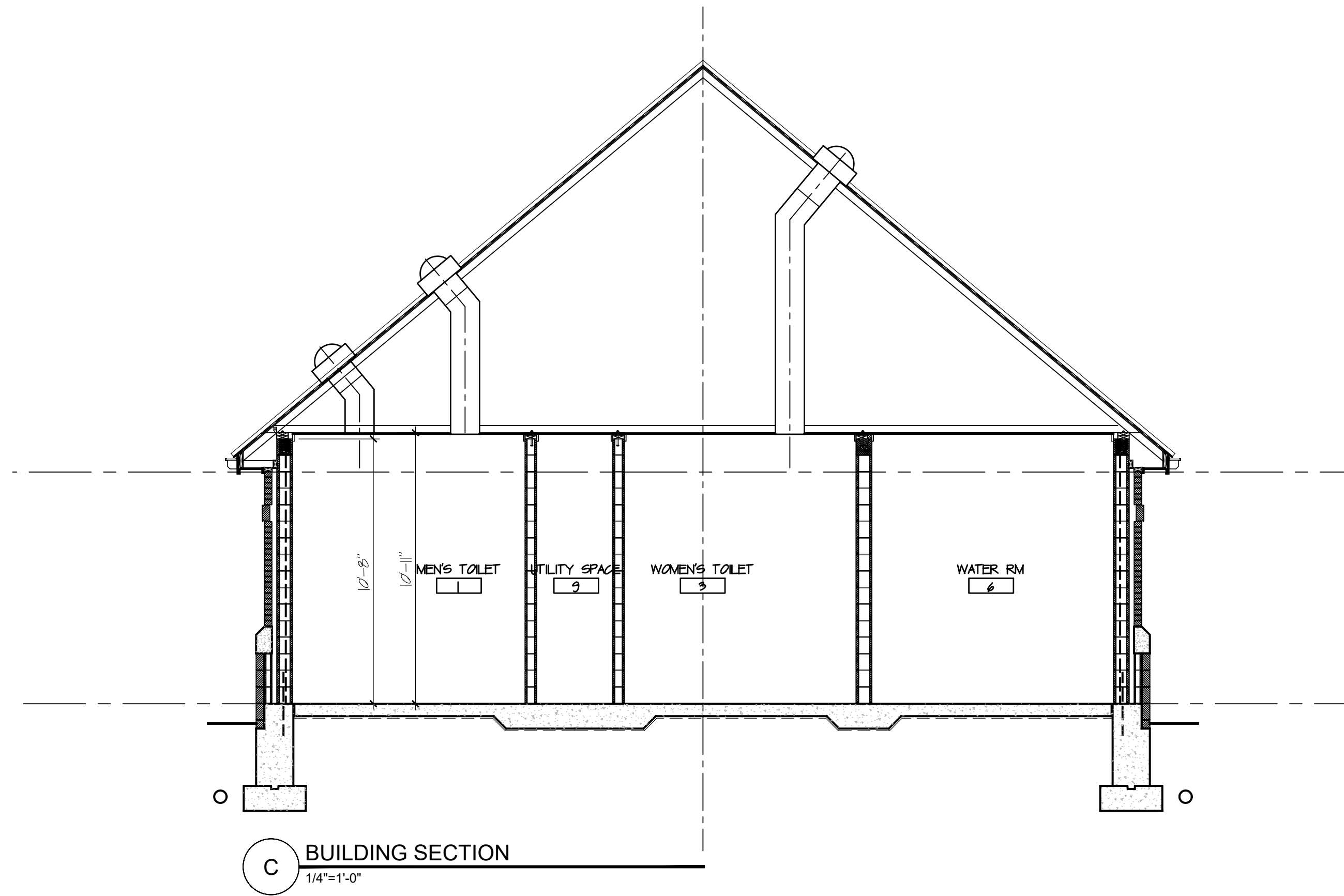


SK DESIGNED	SK DRAWN	RY CHECKED
SCALE		
AS NOTED		
DATE OCTOBER 14, 2022		
PROJECT NO. 11261.00094		
SHEET NO.		
C6.1		
SHEET NAME		



MERIDEN GREEN EXTENSION - ROOF PLAN RESTROOM AND FACILITIES STORAGE BUILDING MILL STREET MERIDEN, CONNECTICUT		
MS	MT	MS/MT
DESIGNED	DRAWN	CHECKED
1/4"=1'-0"		
SCALE		
OCTOBER 14, 2022		
DATE		
2021-17		
PROJECT NO.		
2 OF 11		
SHEET NO.		
A1.1		
SHEET NAME		





MERIDEN GREEN EXTENSION - BUILDING SECTIONS

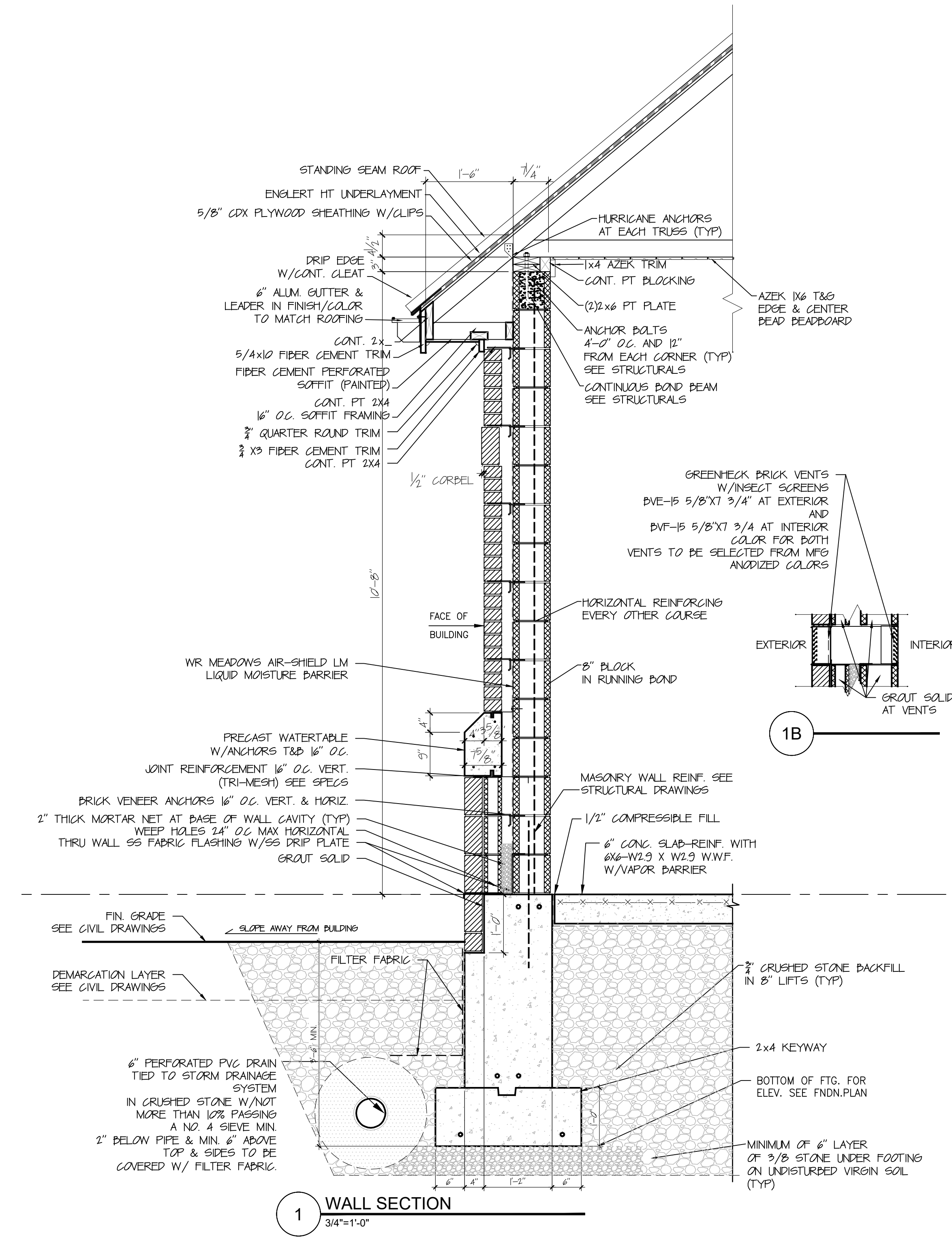
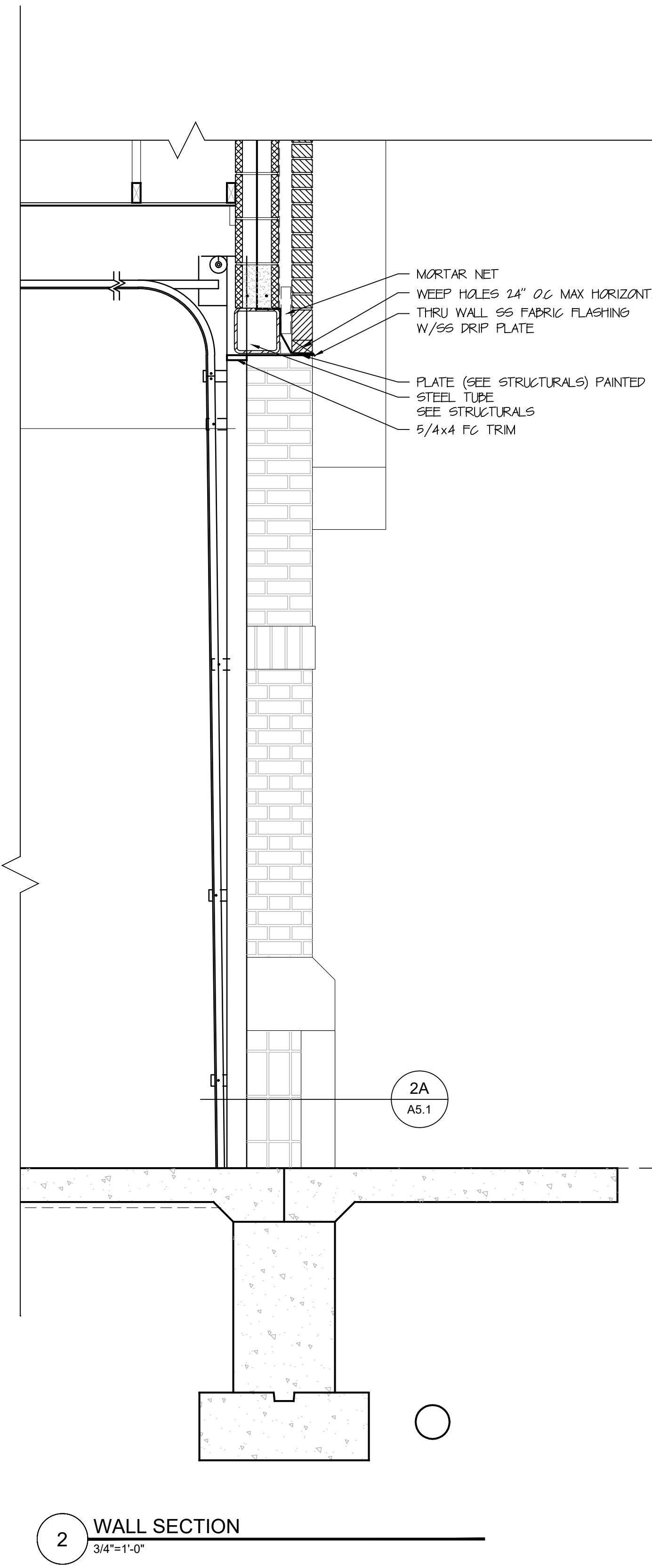
RESTROOM AND FACILITIES STORAGE BUILDING

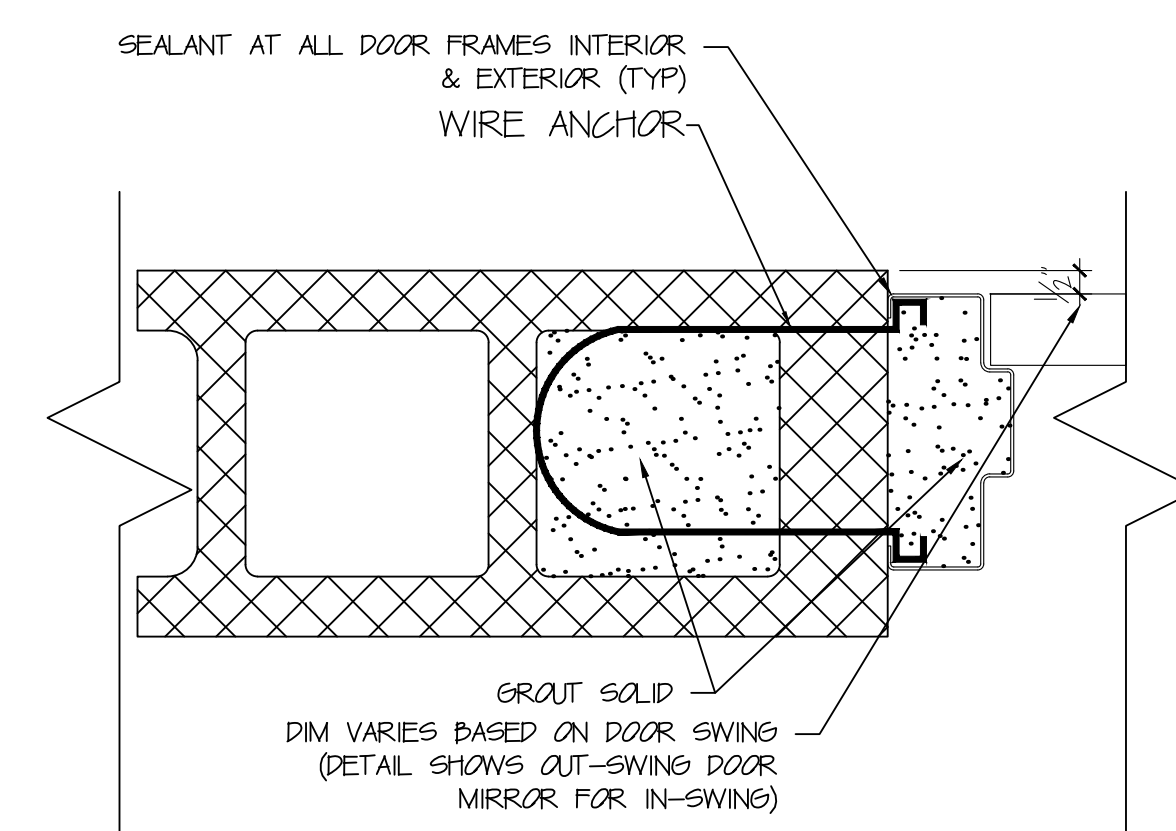
MILL STREET
MERIDEN, CONNECTICUT

MS DESIGNED	MT DRAWN	MS/MT CHECKED
1/4"=1'-0"		
OCTOBER 14, 2022		
2021-17		
4 OF 11		

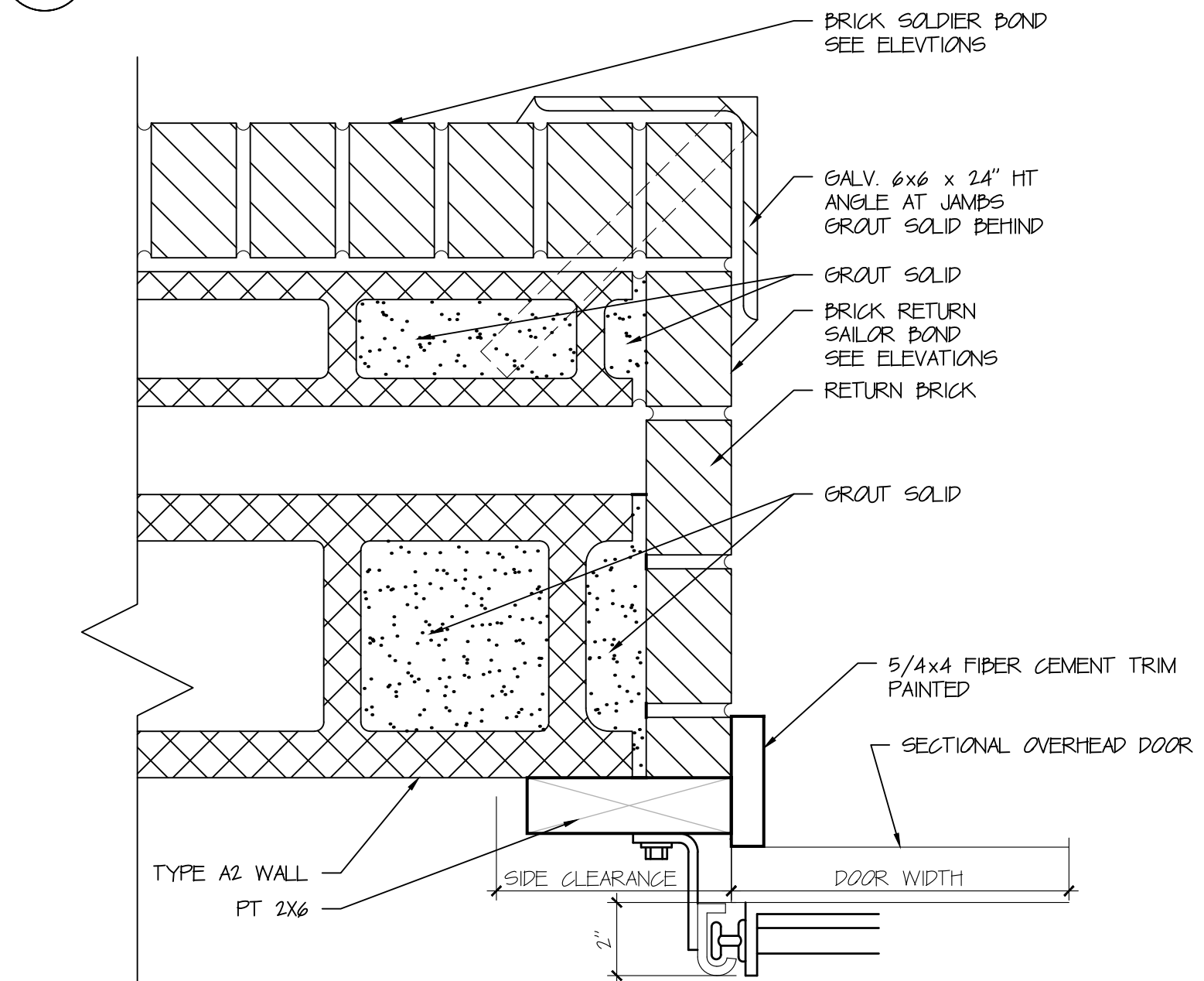
A3.0

STRUCTURAL: STEIN TROOST ARCHITECTS
ARCHITECT: STEIN TROOST ARCHITECTS
99 REALTY DRIVE
CHESHIRE CT 06410
SLRCONSULTING.COM



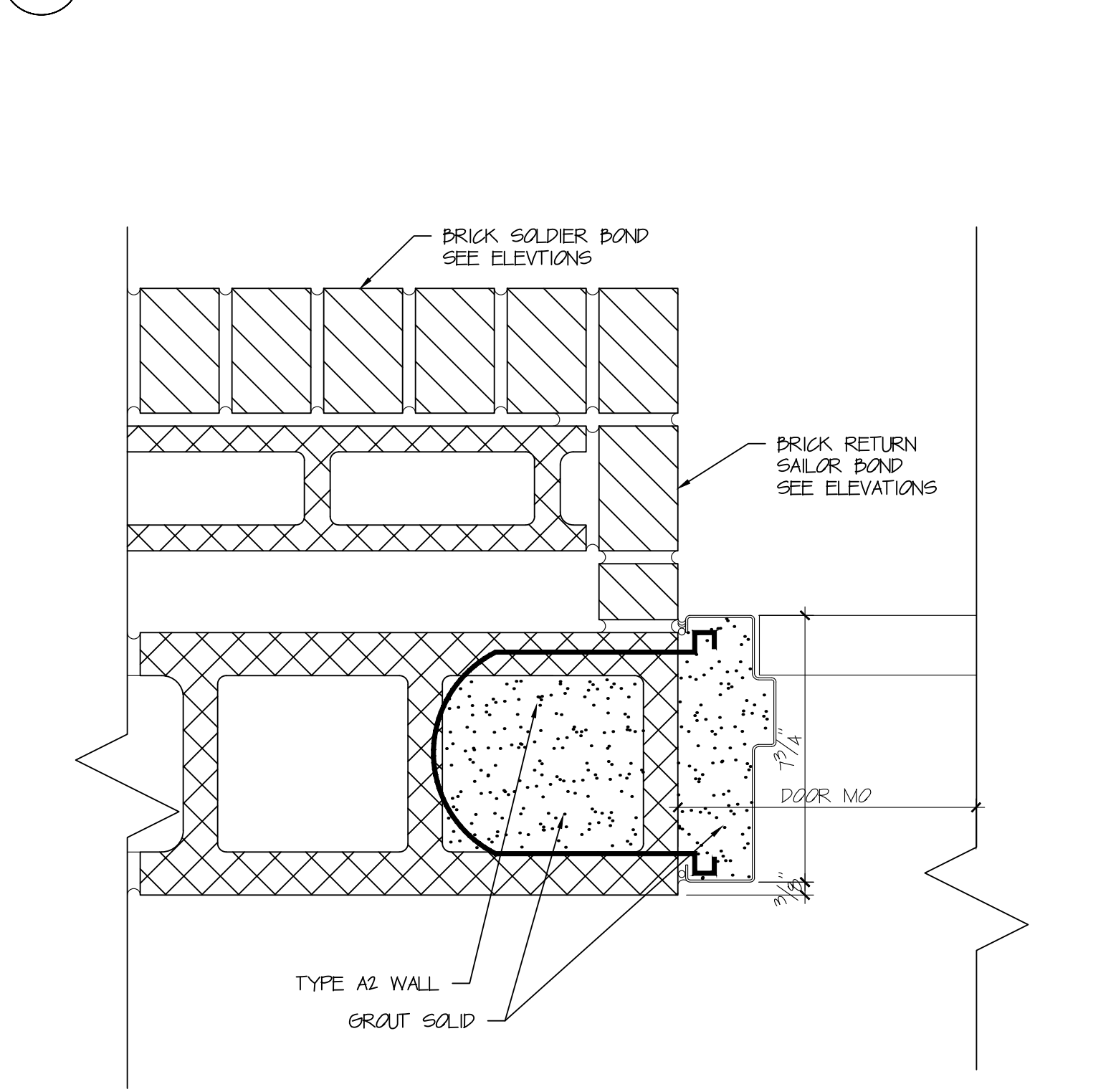


3 JAMB AT INTERIOR HM DOORS
3'-1'-0"



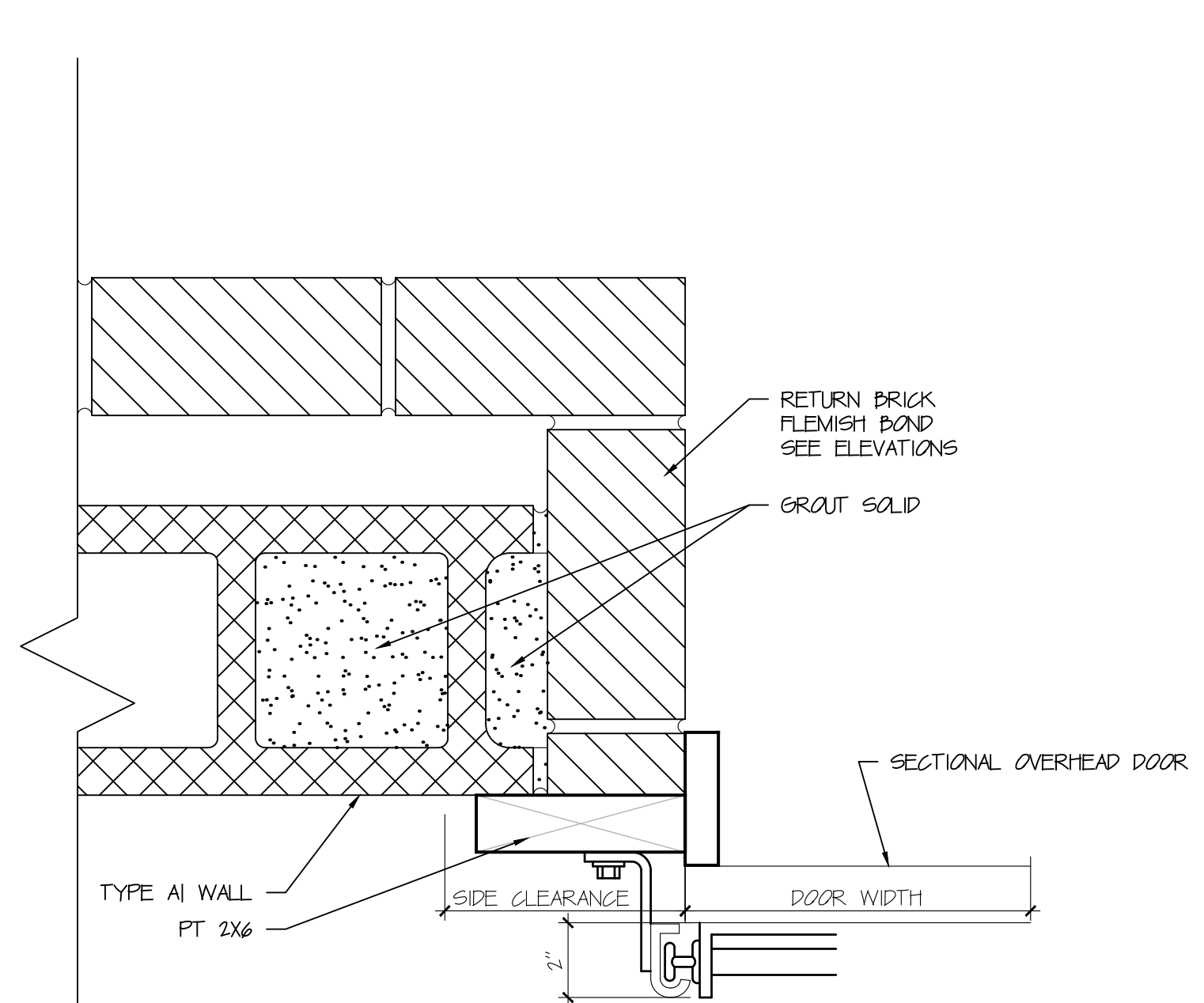
A AT LOW WALL

2 OVERHEAD DOOR JAMBS
3'-1'-0"



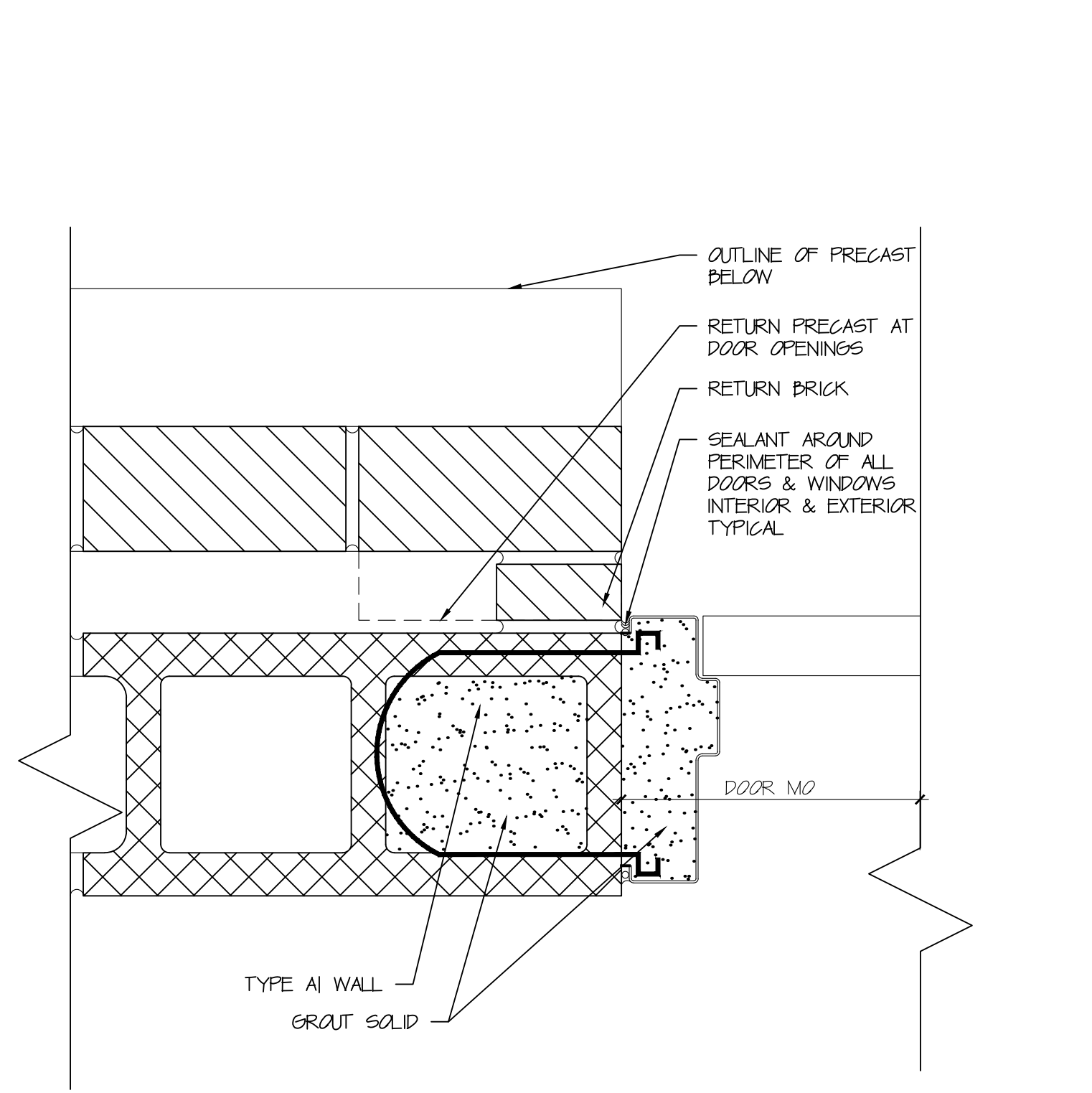
A AT LOW WALL

1 DOOR JAMBS
3'-1'-0"



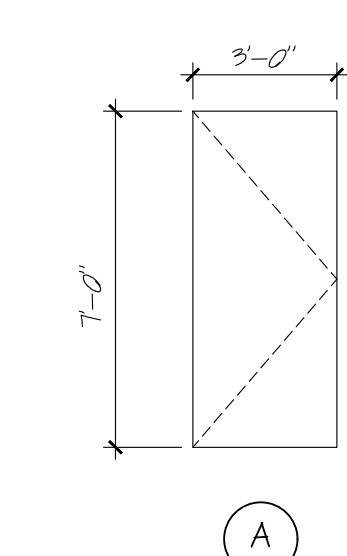
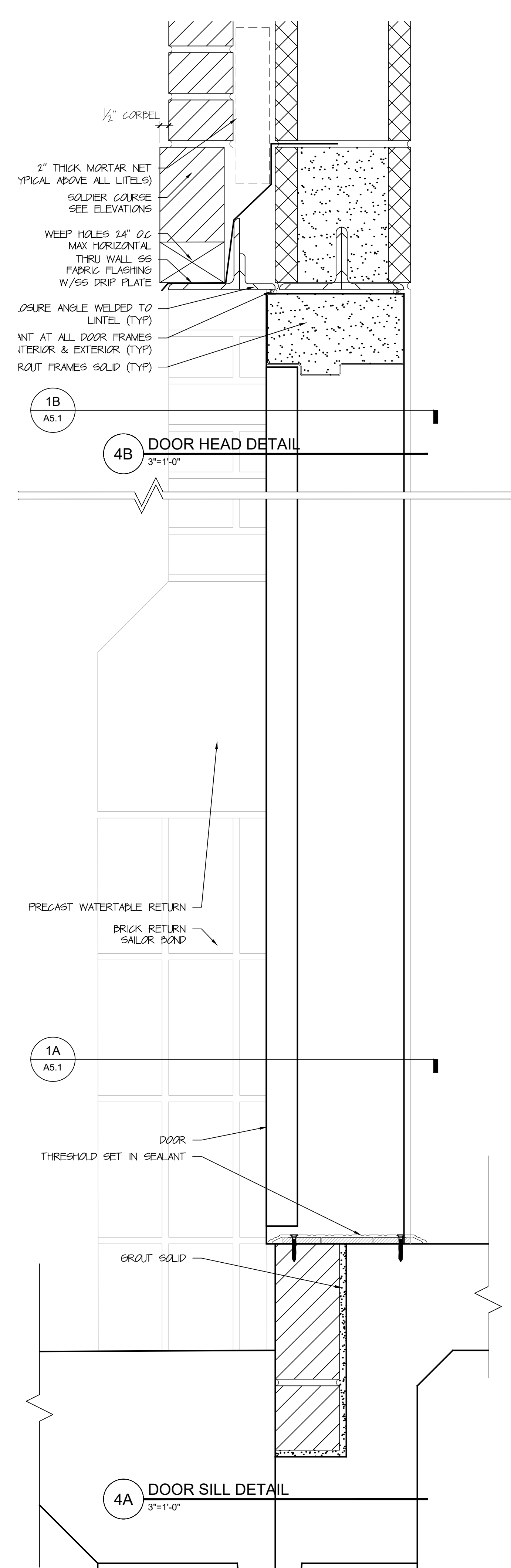
B AT HIGH WALL

2 OVERHEAD DOOR JAMBS
3'-1'-0"



B AT HIGH WALL

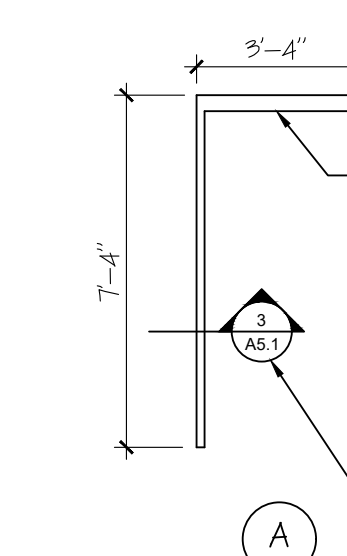
1 DOOR JAMBS
3'-1'-0"



A

DOOR TYPES

SCALE 1/4" = 1'-0"



A

FRAME TYPES

SCALE 1/4" = 1'-0"

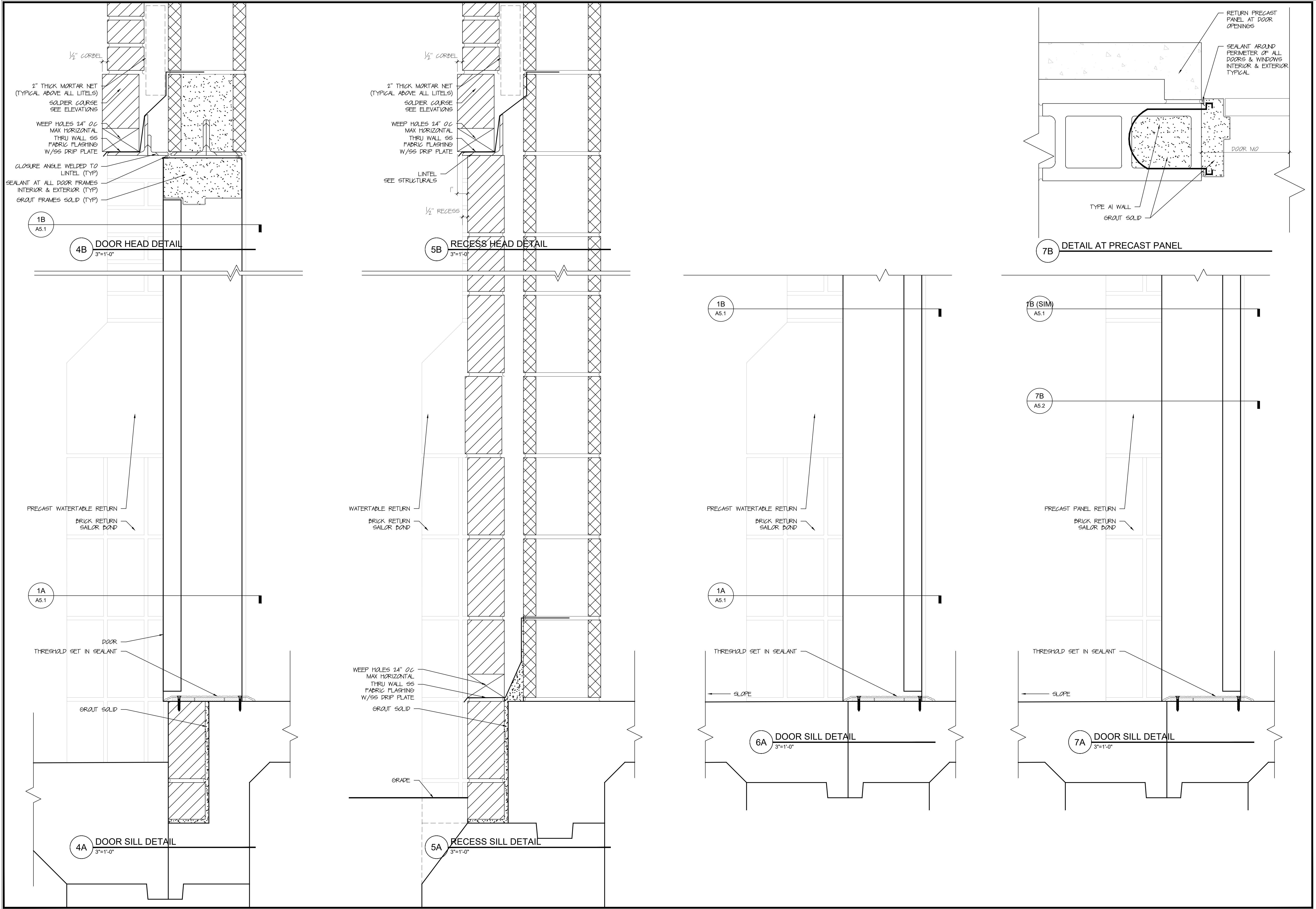
STRUCTURAL: STEIN TROOST ARCHITECTS
ARCHITECT: STEIN TROOST ARCHITECTS
99 REALTY DRIVE
CHESHIRE CT 06410
SLR CONSULTING.COM

SLR
99 REALTY DRIVE
CHESHIRE CT 06410
SLR CONSULTING.COM

DESCRIPTION
DATE
BY

MERIDEN GREEN EXTENSION - DETAILS
RESTROOM AND FACILITIES STORAGE BUILDING
MILL STREET
MERIDEN, CONNECTICUT

MS DESIGNED
MT DRAWN
MS/MT CHECKED
AS NOTED
SCALE
OCTOBER 14, 2022
DATE
2021-17
PROJECT NO.
8 OF 11
SHEET NO.
A5.1
SHEET NAME



STRUCTURAL
STEIN TROOST ASSOCIATES
99 REALTY DRIVE
CHESHIRE CT 06410
TEL: 203.338.0663
F: 203.338.0663
WWW.STEINTROOST.COM

ARCHITECT
STEIN TROOST ASSOCIATES
99 REALTY DRIVE
CHESHIRE CT 06410
TEL: 203.338.0663
F: 203.338.0663
WWW.STEINTROOST.COM

PROJECT NO.
2021-17

SHEET NO.
9 OF 11

DATE
OCTOBER 14, 2022

SCALE
AS NOTED

DESIGNED
MS

DRAWN
MT

CHECKED
MS/MT

PROJECT NAME
MERIDEN GREEN EXTENSION - DETAILS
RESTROOM AND FACILITIES STORAGE BUILDING
MILL STREET
MERIDEN, CONNECTICUT

PROJECT NO.
2021-17

SHEET NO.
9 OF 11

DATE
OCTOBER 14, 2022

SCALE
AS NOTED

DESIGNED
MS

DRAWN
MT

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MS/MT

PROJECT NAME
MERIDEN GREEN EXTENSION - DETAILS
RESTROOM AND FACILITIES STORAGE BUILDING
MILL STREET
MERIDEN, CONNECTICUT

FINISH KEY SCHEDLUE					
Flooring					
Flooring #	Type	Manufacturer	Style & Color #	Description	Comment
EPF-1	EPOXY FLOORING	Dur-A-Flex, Inc,	DUR-A-QUARTZ Q28-21	self leveling broadcast colored quartz	
SC-1	SEALED CONCRETE				
Toilet Partition					
SS #	Type	Manufacturer	Color	Description	
TP-1	HDPE	SCRANTON	BLACK - EX (TEXTURE)		
Solid surface					
SS #	Type	Manufacturer	Color	Description	
SS-1		CORIAN	DESIGNER WHITE		Counterttop & intragral bowl
Paint					
Paint #	Type	Manufacturer	Color	Description	Comment
EP-1	EPOXY WALL PAINT	Sherwin-Williams	SW7071(GREY SCREEN)		CMU INTERIOR WALLS
P-1	SEMI-GLOSS	Sherwin-Williams	TBS		DOORS, FRAMES, LINTELS & EXPOSED METAL
P-2	LOW LUSTRE	Sherwin-Williams	w hite		INTERIOR CELINGS & TRIM
P-3	SATIN	Sherwin-Williams	w hite		Exterior trim
P-4	SATIN	Sherwin-Williams	w hite		Exterior soffit
EXTERIOR COLORS					
	Manufacturer	Color			
EXTERIOR BRICK #1	Glen Gery	Ravenna			
EXTERIOR BRICK #2	Glen Gery	Sycamore			
MORTAR	Specmix	Suede			
METAL ROOF	Englert	Everglade moss			
GUTTERS & LEADERS	Englert	Everglade moss			
DOWNSPOUT BOOTS		Painted to match leaders/roof			
EXTERIOR TRIM	Fiber cement	w hite			
SOFFIT	Fiber cement	w hite			
OVERHEAD DOOR		w hite			
ALUMINUM LOUVER	Greenheck	TBS custom (AAMA 2605)			
EXTERIOR DOORS & FRAMES		TBS			

DOOR/LOUVER SCHEDULE											
DOOR NUMBER	LOCATION	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MAT/TYPE	DOOR FINISH	FRAME MAT/TYP	FRAME FINISH	CLOSER	HARDWARE SET	COMMENTS
1	MENS TIOLET	3'-0"	7'-0"	1-3/4	HM-A	PAINT	HM-A	PAINT	YES	001	
2	TIOLET	3'-0"	7'-0"	1-3/4	HM-A	PAINT	HM-A	PAINT	YES	002	
3	WOMENS TIOLET	3'-0"	7'-0"	1-3/4	HM-A	PAINT	HM-A	PAINT	YES	001	
4	COMMUNITY STORAGE	3'-0"	7'-0"	1-3/4	HM-A	PAINT	HM-A	PAINT	YES	003	
5	ELECTRIC	3'-0"	7'-0"	1-3/4	HM-A	PAINT	HM-A	PAINT	YES	003	
6	WATER	3'-0"	7'-0"	1-3/4	HM-A	PAINT	HM-A	PAINT	YES	004	
7	TOILET	3'-0"	7'-0"	1-3/4	HM-A	PAINT	HM-B	PAINT		006	
8A	MAINTENANCE	16'-0"	12'-0"			MFG				005	INSULATED SECTIONAL OVERHEAD DOOR
8B	MAINTENANCE	3'-0"	7'-0"	1-3/4	HM-A	PAINT	HM-A	PAINT	YES	007	
9	UTILITY SPACE	3'-0"	7'-0"	1-3/4	HM-A	PAINT	HM-A	PAINT		008	
NUMBER	LOCATION	WIDTH	HEIGHT	THICKNESS							COMMENTS
LOUVERS (L1)	GABLE ENDS SEE ELEVATIONS	2'-0"	6'-7"	6"							GREENHECK EHH-601 WITH INSECT SCREEN, CLIP ANGLES, SILL PAN, CUSTOM COLOR W/AAMA 2605 FINISH

FINISH SCHEDULE

MERIDEN GREEN

ROOM NO.	ROOM NAME	FLR FIELD	FLR BASE	WALLS	DOOR	DOOR FRAME	CEILIN G	TRIM	COUNTERTOP S & CABINETS	COMMENTS	ROOM SIGNAGE	
1	MENS TOILET	EPF-1	EPF-1	EP-1	P-1	P-1	P-2	P-2	SS-1	SEE INTERIOR ELEVATIONS & PLANS	A	MENS TOILET W/ BABY CHANGING STATION w/Braille
2	TOILET	EPF-1	EPF-1	EP-1	P-1	P-1	P-2	P-2		SEE INTERIOR ELEVATIONS & PLANS	B	FAMILY TOILET W/ BABY CHANGING STATION w/Braille
3	WOMENS TOILET	EPF-1	EPF-1	EP-1	P-1	P-1	P-2	P-2	SS-1	SEE INTERIOR ELEVATIONS & PLANS	C	WOMENS TOILET W/ BABY CHANGING STATION w/Braille
4	COMMUNITY STORAGE	EPF-1	EPF-1	EP-1	P-1	P-1	P-2	P-2			D	COMMUNITY STORAGE w/Braille
5	ELECTRIC ROOM	SC-1	NONE	NONE	P-1	P-1	P-2	P-2			E	ELECTRIC ROOM w/Braille
6	WATER ROOM	SC-1	NONE	NONE	P-1	P-1	P-2	P-2			F	WATER ROOM w/Braille
7	STAFF TOILET	EPF-1	EPF-1	EP-1	P-1	P-1	P-2	P-2		SEE INTERIOR ELEVATIONS & PLANS	G	STAFF TOILET w/Braille
8	MAINTENANCE	SC-1	NONE	NONE	P-1	P-1	P-2	P-2		SEE INTERIOR ELEVATIONS & PLANS	H	MAINTENANCE w/Braille
9	UTILITY SPACE	SC-1	NONE	NONE	P-1	P-1	P-2	P-2			I	UTILITY w/Braille

ANY CONCRETE CURING COMPOUNDS OR HARDENERS TO BE USED MUST BE APPROVED BY EPOXY FLOORING MANUFACTURER

STRUCTURAL
STEIN TROOST & ASSOCIATES
ARCHITECT
STEIN TROOST & ASSOCIATES
99 REALTY DRIVE
CHESHIRE CT 06410
SICCONSULTING.COM

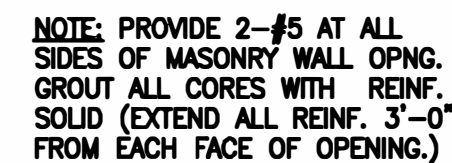
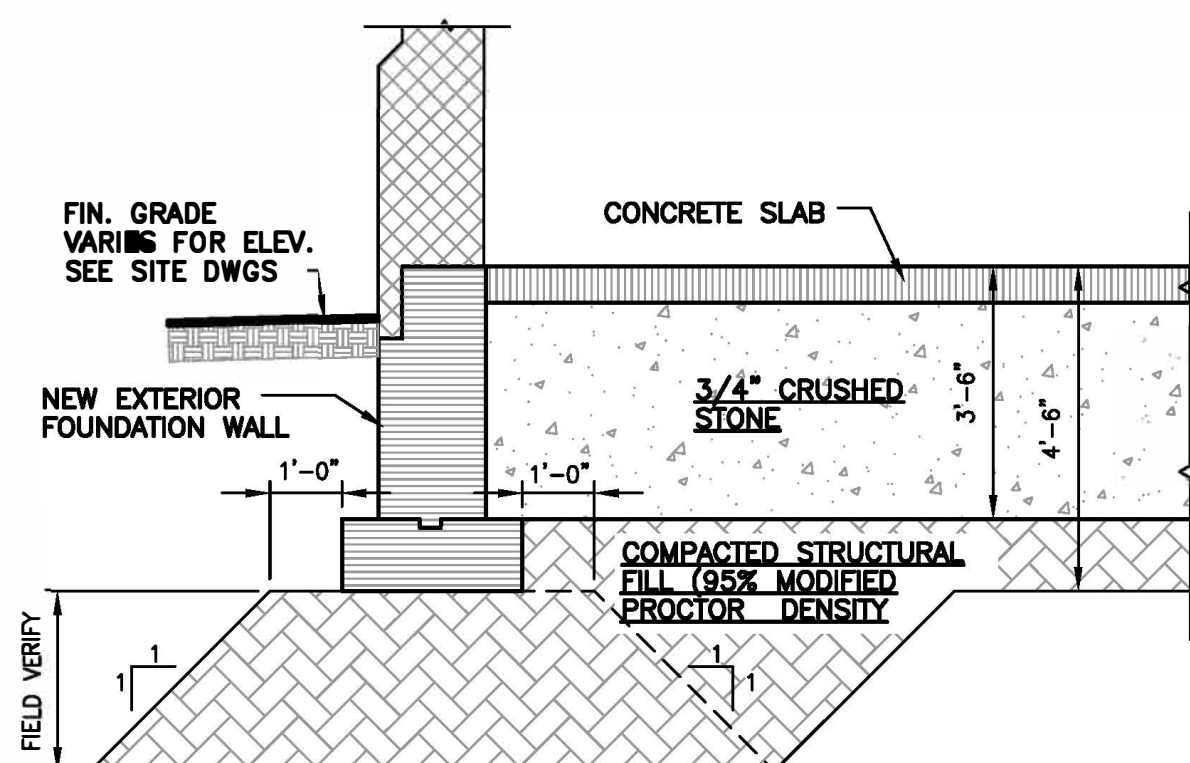


99 REALTY DRIVE
CHESHIRE CT 06410
SICCONSULTING.COM

DESCRIPTION
DATE
BY

MERIDEN GREEN EXTENSION - SCHEDULES
RESTROOM AND FACILITIES STORAGE BUILDING
MILL STREET
MERIDEN, CONNECTICUT

MS
DESIGNED
MT
DRAWN
MS/MT
CHECKED
NTS
SCALE
OCTOBER 14, 2022
DATE
2021-17
PROJECT NO.
11 OF 11
SHEET NO.
A7.0
SHEET NAME



TYPICAL SECTION



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

1. (F1) INDICATES 6" CONCRETE SLAB REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. ON MINIMUM 3'-0" LAYER OF 3/4" CRUSHED STONE.
2. (F2) INDICATES 6" CONCRETE SLAB (5,000 PSI) REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. ON MINIMUM 3'-0" LAYER OF 3/4" CRUSHED STONE.
3. B.F.E. INDICATES BOTTOM OF FOOTING ELEVATION.
4. T.W.E. INDICATES TOP OF WALL ELEVATION. DROP TOP OF WALL ELEVATION TO 8" BELOW FIN. FLOOR ELEVATION AT ALL DOOR OPENINGS - U.O.N.
5. C.J. INDICATES CONTROL JOINT IN CONCRETE SLAB
6. WHERE UTILITY LINES (I.E. SANITARY, WATER, ETC.) PENETRATE FOUNDATION WALL DROP BOTTOM OF FOOTING ELEVATION AS REQUIRED TO ALLOW UTILITY LINE TO PASS THRU THE FOUNDATION WALL. COORDINATE LOCATIONS AND ELEVATIONS WITH MECHANICAL AND SITE REQUIREMENTS. COORDINATE AT ALL INTERIOR WALL FOOTINGS.
7. DO NOT AIR-ENTRAIN INTERIOR SLABS ON GRADE.
8. EXCAVATE AND REMOVE ALL EXISTING SOILS TO ELEVATION 129.40' (4'-6" BELOW TOP OF SLAB) UNDER BUILDING FOOTPRINT. IN ADDITION ALL EXISTING FILLS BENEATH NEW BUILDING FOOTINGS SHALL BE REMOVED DOWN TO UNDISTURBED NATURAL MATERIAL AND BACKFILLED WITH COMPACTED STRUCTURAL FILL. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
9. F.D. INDICATES FLOOR DRAIN. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, ADDITIONAL INFORMATION AND REQUIREMENTS.
10. INDICATES 6" PERFORATED PVC FOUNDATION DRAIN ENCAPSULATED IN 12" LAYER OF FILTER MEDIA AND FILTER FABRIC SLOPE ALL DRAINS AT MINIMUM 0.5%. SEE SITE DRAWINGS FOR CONTINUATION.

[illegible]

TYPICAL WOOD ROOF TRUSS NOTES:

- LOADS SHALL DETERMINED USING THE "CONNECTICUT STATE BUILDING CODE" 2018 (CSBC).
- BASIC SNOW LOAD = 30 PSF. SNOW LOAD DISTRIBUTION AND COEFFICIENTS TO BE DETERMINED USING THE "CONNECTICUT STATE BUILDING CODE" 2018 (CSBC), CONSIDERING SHEDDING, STACKING AND SLIDING SNOW AS REQUIRED BY CSBC.
- THE ALLOWABLE WOOD STRESSES MAY BE INCREASED 15% WHEN USED UNDER SNOW LOADINGS.
- FOR TRUSS BRACING REQUIREMENTS SEE STRUCTURAL GENERAL NOTES AND WOOD TRUSS COUNCIL OF AMERICA & TRUSS PLATE INSTITUTE BUILDING DOCUMENT "BCSI 1-03".
- ALL TRUSSES SHALL BE DESIGNED TO INCLUDE MINIMUM SC88C WIND LOADS OF 100 MPH. SHOW ALL WIND LOAD REACTIONS (UPLIFT, SHEARS, ETC.) ON DETAILED TRUSS SHOP DRAWINGS.
- WOOD TRUSSES ARE TO BE DESIGNED FOR ANY REACTIONS RESULTING FROM ADDITIONAL MEMBERS SUPPORTED BY WOOD TRUSSES.
- BOTTOM CHORD TO BE DESIGNED FOR A MINIMUM LOADING OF 10 PSF.
- ALL TRUSS DESIGNS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF CONNECTICUT. ALL SUBMISSIONS SHALL BEAR REGISTRATION SEAL OF DESIGN ENGINEER.
- ALL TRUSS SUBMITTALS SHALL INCLUDE THE FOLLOWING:
 - ALL TRUSS LOCATIONS, SPACING, BEARING DETAILS, MEMBER SIZES, PITCH, SPANS AND DIMENSIONS.
 - SIZE, SPECIES AND STRESS OF GRADE LUMBER.
 - LOADING CONDITIONS AND STRESS INCREASES.
 - NOMINAL SIZES AND LOCATIONS OF CONNECTOR PLATES AT ALL JOINTS.
 - ACTUAL AXIAL LOADS IN EACH MEMBER.
 - CAMBER REQUIREMENTS.
 - LOCATION OF PERMANENT LATERAL BRACING AS REQUIRED BY THE DRAWINGS.
 - LOCATION OF TEMPORARY LATERAL BRACING AS REQUIRED FOR ERECTION.
 - MANUFACTURER'S DATA OR FABRICATOR'S SHOP DRAWING FOR METAL TRUSS HANGERS AND THEIR LOCATIONS.
 - MANUFACTURER'S DATA FOR HURRICANE ANCHORS WITH ALL ANCHOR LOCATIONS SHOWN IN PLAN.
- PROVIDE TRUSS TOP CHORD EXTENSIONS AS REQUIRED FOR ROOF OVERHANG. SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- PROVIDE "PIGGY BACK" TRUSS CONFIGURATION AS REQUIRED FOR TRUSS HANDLING AND SHIPPING REQUIREMENTS.
- PROVIDE MULTIPLE TRUSSES AS REQUIRED FOR LOADING AND BEARING.
- PROVIDE GABLE END TRUSSES AT ALL EXTERIOR WALL GABLE ENDS. MULTIPLE (STRUCTURAL AND GABLE) END TRUSSES SHALL BE SUPPLIED AS REQUIRED FOR SPAN AND LOADING.
- PROVIDE VERTICAL WEB MEMBERS @ 16" O.C. (WITHIN STRUCTURAL GABLE AND TRUSS GIRDER) DIAGONAL WEBS FOR THE ATTACHMENT OF SHEATHING - SEE ARCHITECTURAL DRAWING FOR ADDITIONAL REQUIREMENTS.
- PROVIDE MULTIPLE SUPPORT STUDS (3 MIN.) AT ALL TRUSS GIRDER AND BEAM ENDS AS REQUIRED FOR TRUSS/BEAM END REACTIONS. CONTINUE ALL MULTIPLE STUDS TO FOUNDATION WALL OR FOOTING.
- "VT-..." INDICATES TRUSSES TO BE TRUSS SUPPLIER'S TYPICAL INFILL VALLEY TRUSS CONFIGURATION WITH CONTINUOUS TOP AND BOTTOM TRUSS CHORDS. MATCH ADJACENT ROOF SLOPES. PRECUT JACK RAFTERS SHALL NOT BE USED.
- "EJ-...", "HJ-..." AND "HG-..." INDICATE TYPICAL END JACKS, HIP JACKS AND HIP GIRDER TRUSS CONFIGURATIONS REQUIRED AT CORNER HIP ROOF PROFILES. MATCH ADJACENT ROOF SLOPE AND END REQUIREMENTS.
- "RTG-..." INDICATES TYPICAL WOOD ROOF TRUSS GIRDER FRAMING MEMBER MATCH ADJACENT ROOF SLOPE AND END CONFIGURATION - TYPICAL.
- TRUSS SUPPLIER SHALL PROVIDE ALL REQUIRED HANGERS, ANCHORS, AND CLIPS RATED FOR ALL ANTICIPATED TRUSSES OR BEAM END REACTIONS, FRAMING INTO AND/OR SUPPORTED BY ALL TRUSSES AND/OR BEAMS. HURRICANE RESTRAINT ANCHORS SHALL BE SUPPLIED AT ALL SUPPORT AND BEARING LOCATIONS OF ALL ROOF TRUSSES.
- TRUSS SUPPLIER SHALL VERIFY AND COORDINATE ALL TRUSS SPACING AND DIMENSIONS WITH ALL SUPPORT MEMBER (WALL/BEAM/TRUSS GIRDER, ETC.) WIDTHS, PLIES AND ACTUAL LOCATIONS IN FIELD TO MAINTAIN PROPER AND ACCEPTED BEARING OF ALL ROOF TRUSS FRAMING MEMBERS. SEE ARCH'L DRAWINGS FOR ALL WALL LOCATIONS - VERIFY ALL DIMENSIONS IN FIELD.
- ALL TRUSS CHORD AND WEB MEMBERS SHALL BE AT LEAST A NOMINAL 2X4.
- SEE TRUSS GENERAL NOTES ON THIS DRAWING.

BEARING PLATE SCHEDULE

BEARING PLATE MARK	SIZE	REMARKS
BP-1	6"x3/4"x14"	OFFSET PL 3" TO INSIDE
BP-2	8"x3/4"x10"	SEE NOTES #5

NOTES:

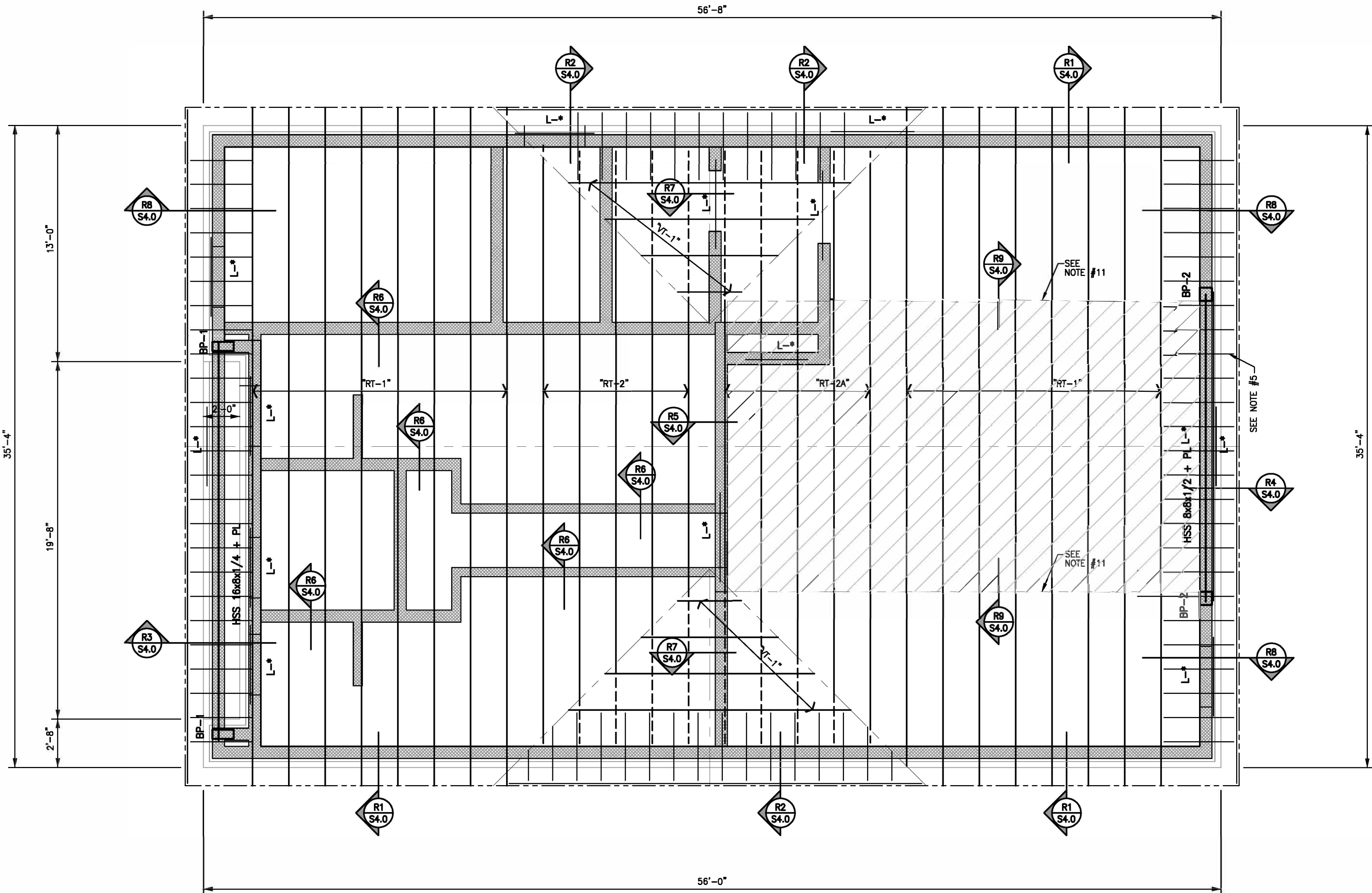
- PROVIDE POCKETS AS REQUIRED FOR ALL BEAMS BEARING ON WALLS. FILL ALL BEAM POCKETS SOLID TO MATCH ADJACENT CONSTRUCTION AFTER BEAM IS IN PLACE.
- PROVIDE (2) - 1/2" DIAMETER ANCHOR BOLTS AT EACH BEARING PLATE BEARING ON MASONRY.
- PROVIDE MINIMUM OF 1" NON-SHRINK GROUT UNDER ALL BEARING PLATES.
- GROUT SOLID MASONRY SOLID FOR 16" WIDTH WITH (2) - #5 GROUTED SOLID BENEATH ALL PLATES TYPICAL.
- PROVIDE (2) - 1/2"x 12" LONG HEADED BOLTS WELDED TO BOTTOM OF PLATE TO BE GROUTED SOLID IN MASONRY.

LINTEL SCHEDULE

SPAN	LINTEL SIZE
UP TO 4'-6"	L3 1/2"x3 1/2"x5/16"
4'-6" TO 5'-6"	L4"x3 1/2"x5/16"
5'-6" TO 6'-6"	L5"x3 1/2"x5/16"
6'-6" TO 7'-6"	L6"x3 1/2"x3/8"

NOTES:

- PROVIDE MINIMUM OF EIGHT (8") INCH LONG BEARING TYPICAL FOR SPANS OF 10'-6" OR LESS.
- FOR EIGHT (8") CMU BEARING WALLS WITH OPENINGS 7'-6" TO 10'-0" WIDE, USE TWO (2) L6 X 3-1/2 X 1/2 ANGLES, BACK-TO-BACK, WITH A 3/8" X 7-5/8" WIDE PLATE WELDED TO THE BOTTOM OF THE ANGLES.
- ALL LINTELS AT EXTERIOR WALLS SHALL BE SAND BLASTED AND RECEIVE A HIGH PERFORMANCE ZINC PRIMER. SEE ARCHITECTURAL DRAWINGS FOR TOP COAT REQUIREMENTS AND SPECIFICATIONS.
- PROVIDE L2x2x1/4 CLOSURE ANGLE WELDED TO BACK OF LINTELS WHICH SUPPORT BRICK VENEER - SEE ARCHITECTURAL DRAWINGS FOR EXACT REQUIREMENTS.



ROOF FRAMING PLAN

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

NOTES:

- TOP OF PLATE SHALL BE AT ELEVATION 140'-3 3/4" (+10'-11" A.F.F.) UNLESS OTHERWISE NOTED "T.P.E. +.....".
- ROOF SHEATHING SHALL BE EXTERIOR GRADE PLYWOOD WITH INTERMEDIATE CLIPS AND THICKNESS AS FOLLOWS:
 - SLOPES GREATER THAN 3 ON 12 - 5/8" PLYWOOD
 - SLOPES LESS THAN 3 ON 12 - 3/4" PLYWOOD
- PROVIDE HURRICANE ANCHORS AT ALL TRUSS AND RAFTER SUPPORTS OF RATED CAPACITY AS REQUIRED BY TRUSS DETAIL DESIGN.
- "VT- ..." INDICATES VALLEY TRUSS SET TO BE TRUSS MANUFACTURERS STANDARD VALLEY TRUSS WITH CONTINUOUS TOP AND BOTTOM CHORDS. COORDINATE CONFIGURATION WITH ARCHITECTURAL AND MECHANICAL REQUIREMENTS - TYPICAL.
- PROVIDE 2x8 @ 24" O.C. OUTLOOKERS WITH CONTINUOUS 2x8 FASCIA PLATE AT ALL RAKE ENDS WITH SIMPSON STRONG-TIE "U-SERIES" JOIST HANGERS UNLESS OTHERWISE NOTED. DROP TOP CHORD OF EXTERIOR/GABLE TRUSS AS REQUIRED.
- PROVIDE MULTIPLE ROOF TRUSSES AT ALL MECHANICAL UNIT LOCATIONS AS REQUIRED FOR UNIT LOADS. PROVIDE SOLID BRIDGING AND BLOCKING ON ALL SIDES OF ALL UNITS AND EQUIPMENT SUPPORTED ON ROOF TRUSSES - COORDINATE WITH MECHANICAL SUPPLIER.
- COORDINATE ROOF TRUSS WEB CONFIGURATIONS WITH MECHANICAL UNIT CLEARANCE REQUIREMENTS - SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- COORDINATE ALL MECHANICAL EQUIPMENT (DUCTS, CHIMNEY, LOUVERS, HATCH OPENINGS, ETC.) PENETRATIONS WITH ROOF FRAMING. PROVIDE MULTIPLE MEMBER FRAMING AT ALL FRAMING SPACING REQUIREMENTS GREATER THAN 24" O.C. ON ALL SIDES OF OPENINGS. ALSO SEE NOTE #11.
- PROVIDE LADDER FRAMING AT 24" O.C. AT TOP AND BOTTOM CHORDS OF ALL TRUSSES WHERE SPACING EXCEEDS 24" O.C. AS INDICATED:
2'-0" TO 4'-0" 2 X 4 @ 24" O.C.
4'-0" TO 8'-0" 2 X 6 @ 24" O.C.
ALL FRAMING SHALL HAVE JOIST HANGERS EACH END.
- "L-..." INDICATES STEEL LINTEL AS INDICATED IN LINTEL SCHEDULE ON THIS DRAWING.
- PROVIDE RAISED CEILING IN CENTER PORTION OF THE MAINTENANCE AREA SUCH THAT BOTTOM OF TRUSS SHALL BE AT ELEVATION 143'-7 3/4" (+14'-3" A.F.F.).
- PROVIDE 3/8" END PLATE WELDED TO ENDS OF TUBE BEAM.



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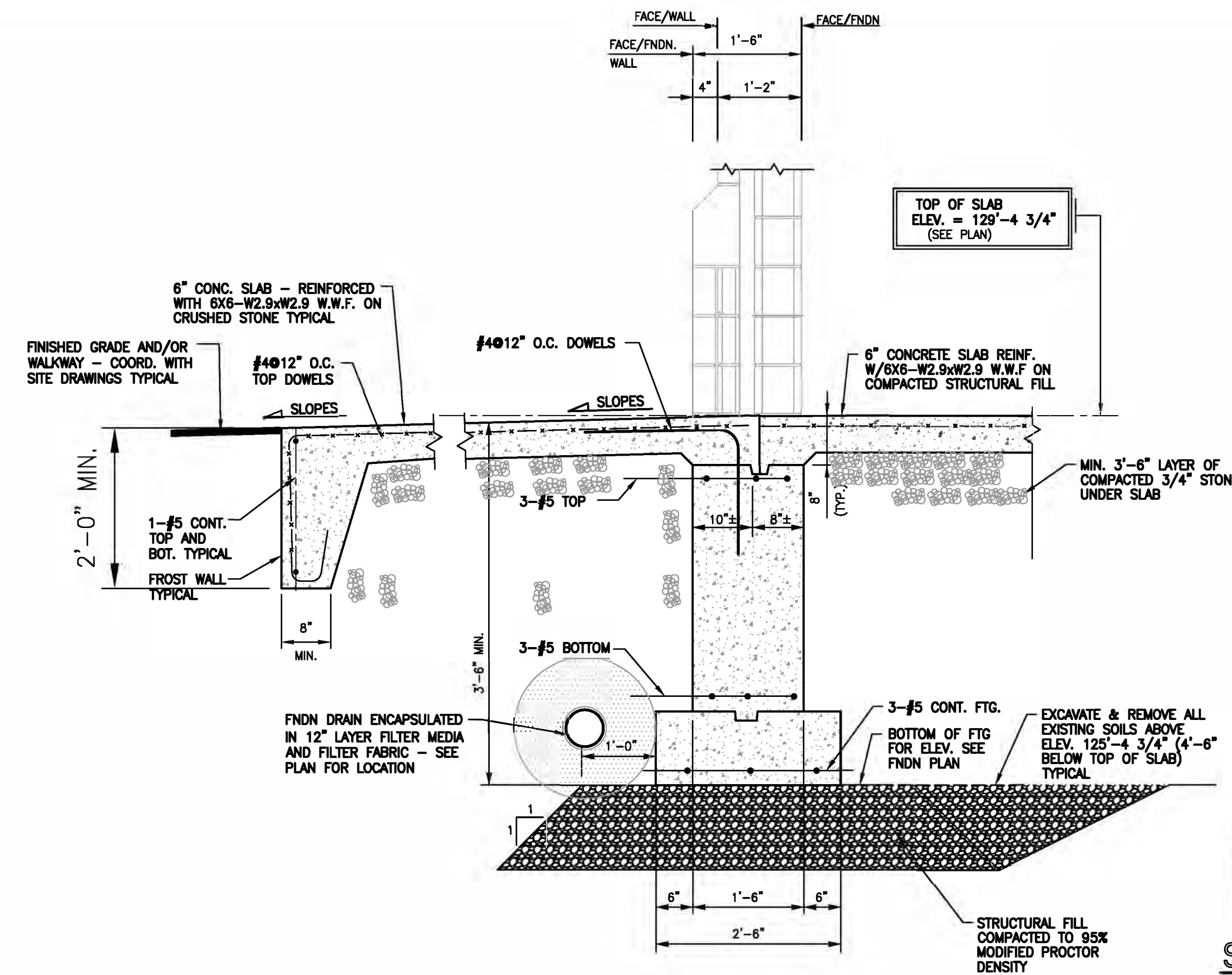
DESCRIPTION	DATE	BY

MERIDEN GREEN EXTENSION - ROOF FRAMING PLAN
RESTROOM AND FACILITIES STORAGE BUILDING
MILL STREET
MERIDEN, CONNECTICUT

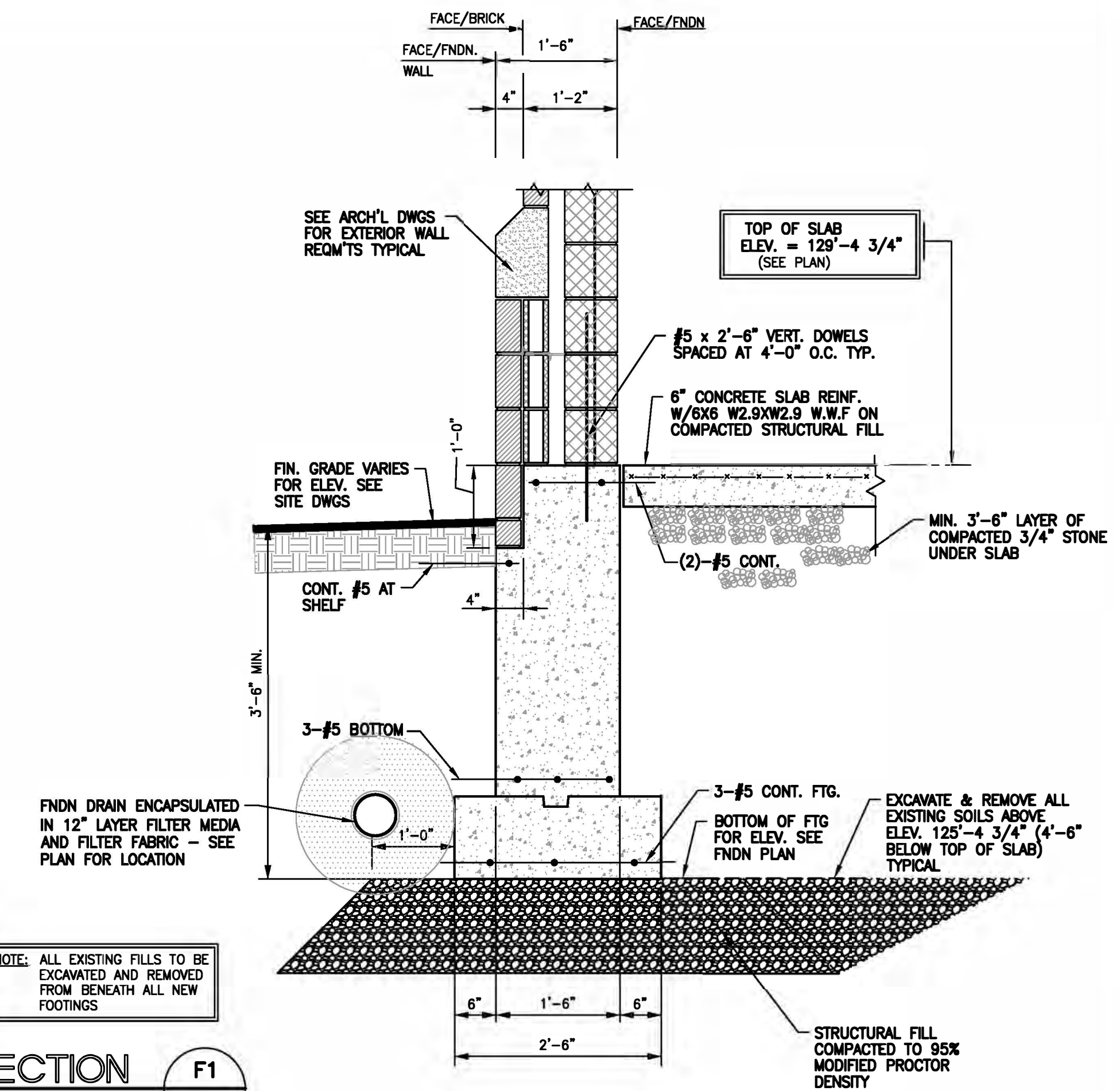
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AS NOTED		
SCALE: OCTOBER 14, 2022		
DATE: 2021-17		
PROJECT NO: 3 OF 5		
SHEET NO:		

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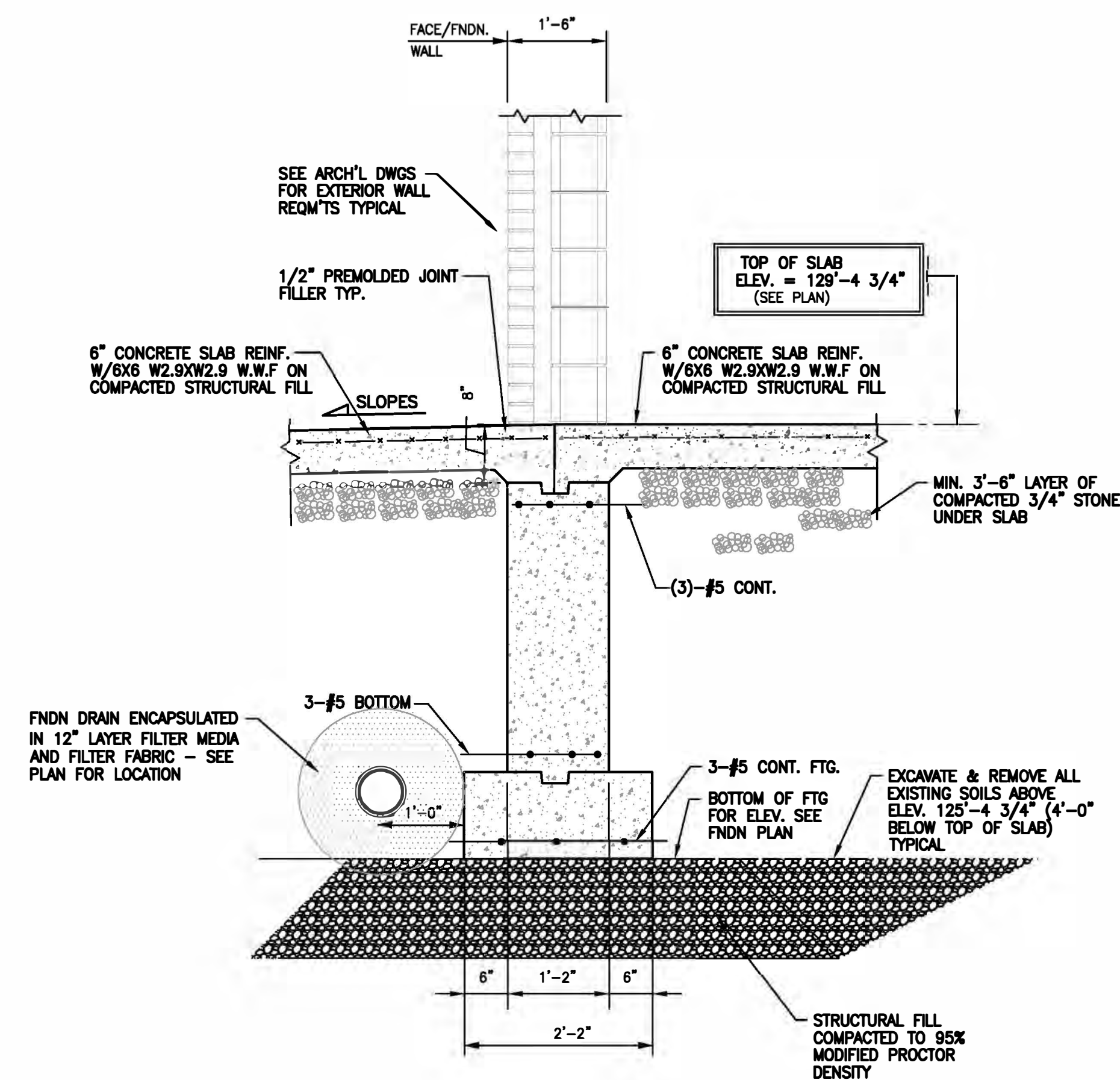
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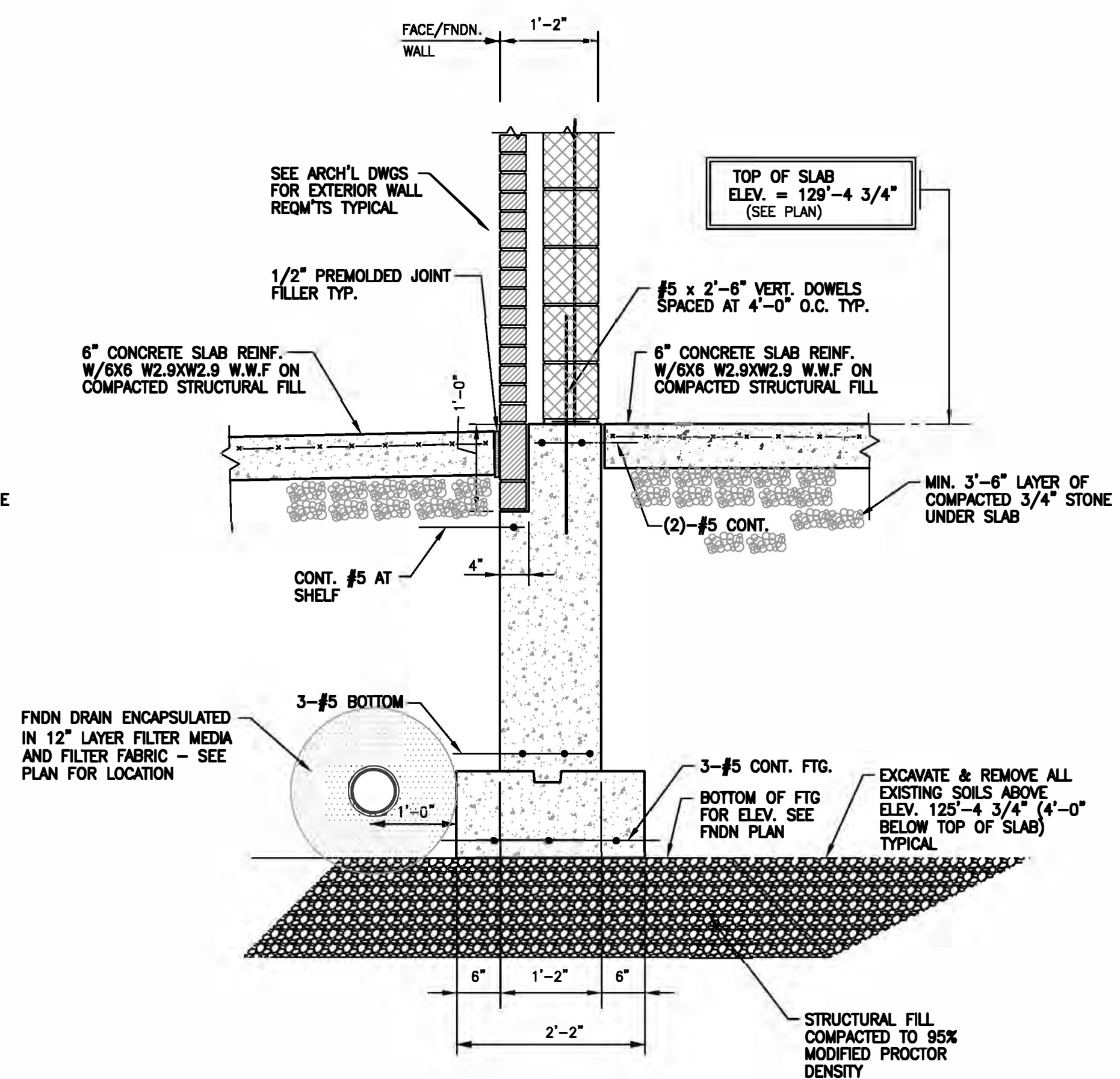
SECTION AT DOORS



TYPICAL SECTION



SECTION AT DOORS



TYPICAL SECTION

SECTION F2
SCALE: 3/4" = 1'-0"
S3.0

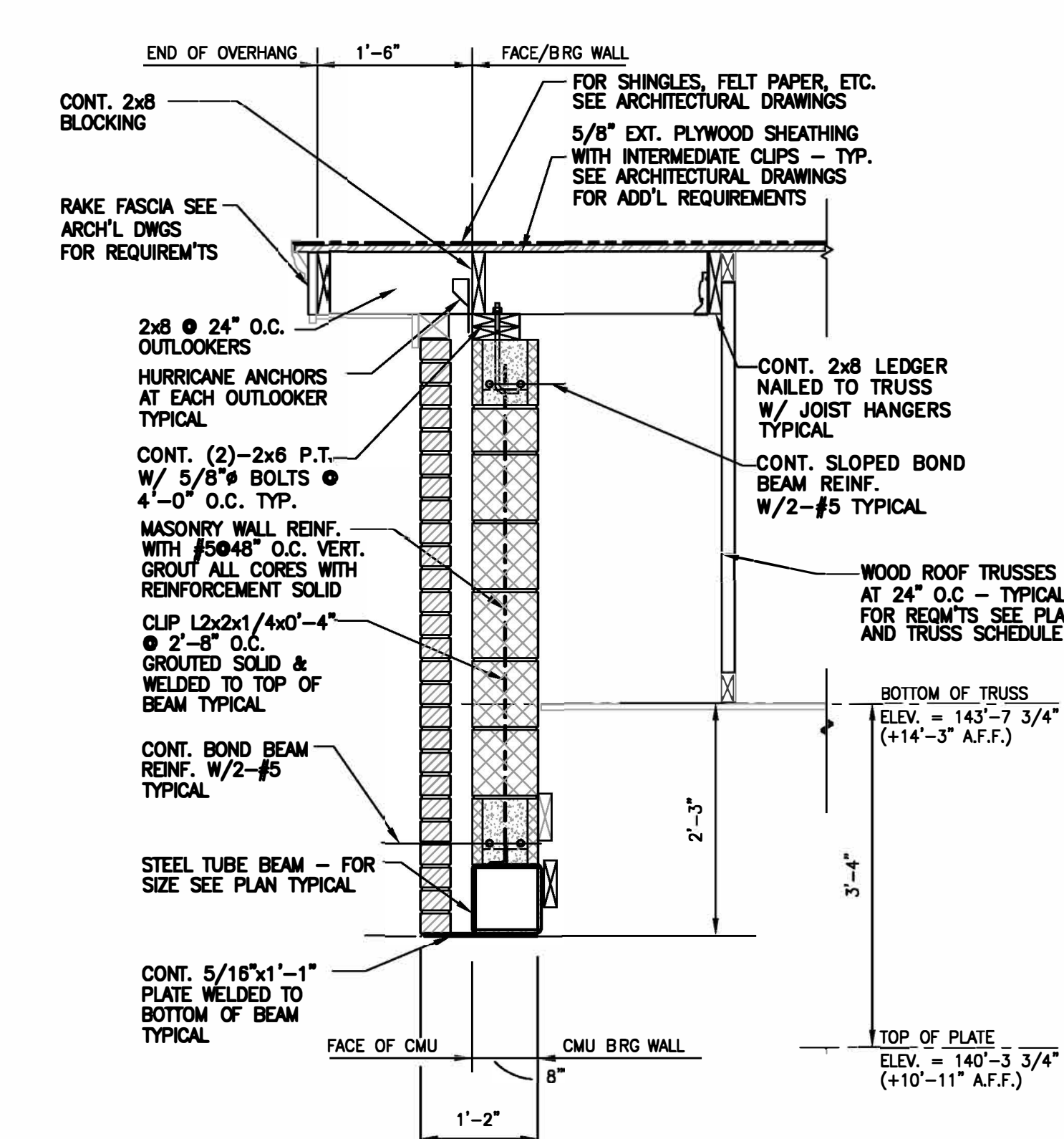
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RESTROOM AND FACILITIES STORAGE BUILDING

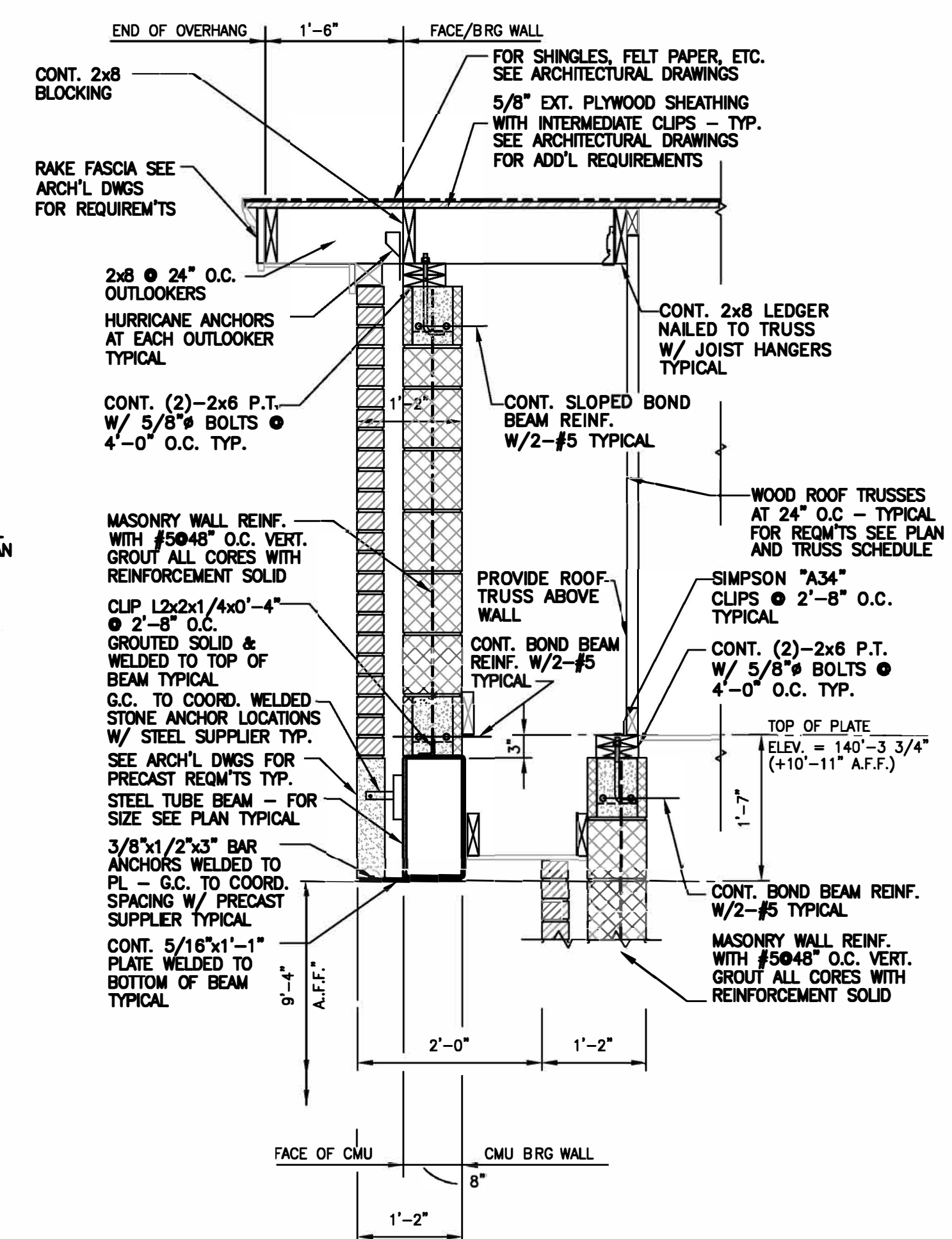
MILL STREET
MERIDEN, CONNECTICUT

ARC DESIGNED	ROT DRAWN	ARC CHECKED
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SCALE		
OCTOBER 14, 2022		
DATE		
2021-17		
PROJECT NO.		
4 OF 5		
SHEET NO.		

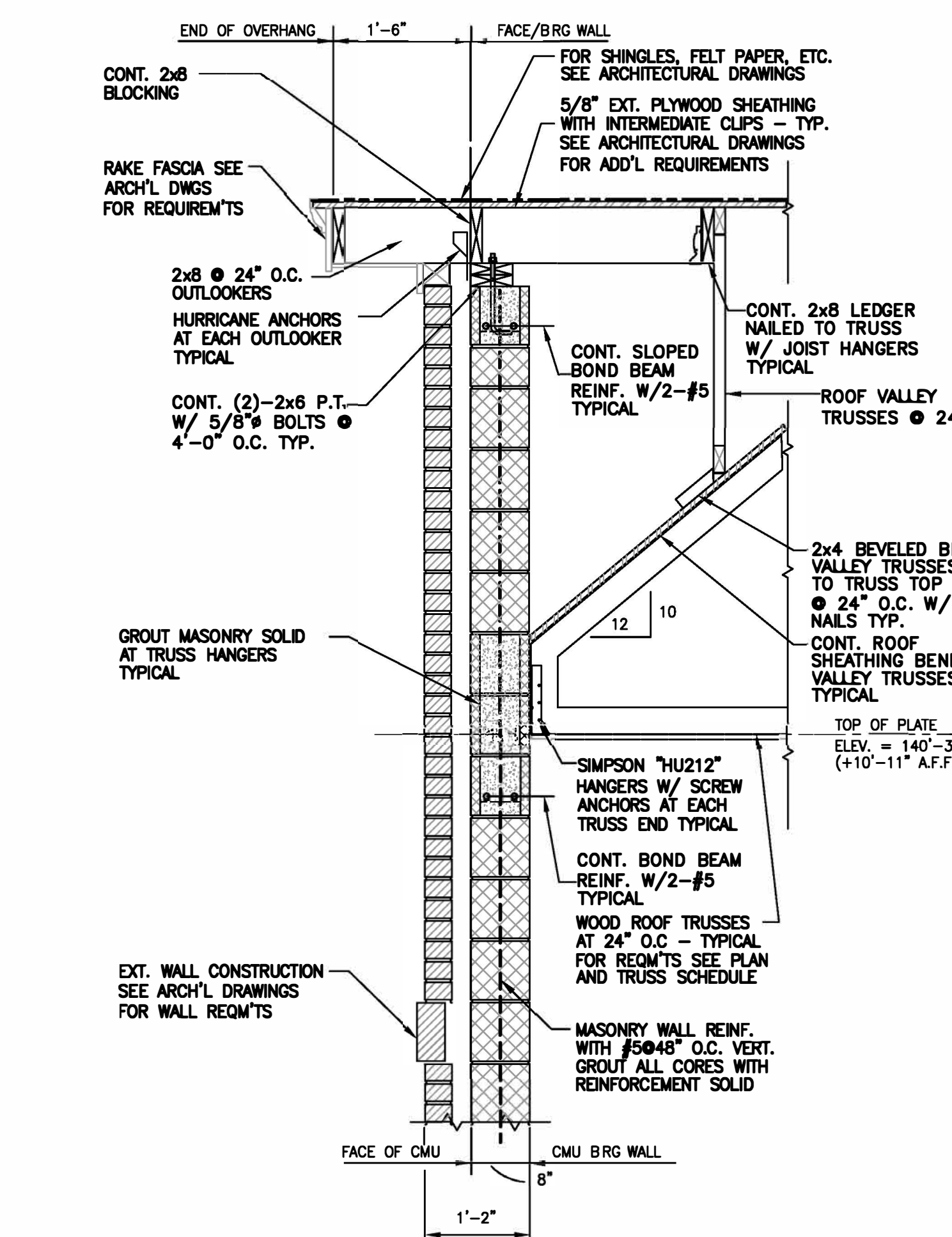
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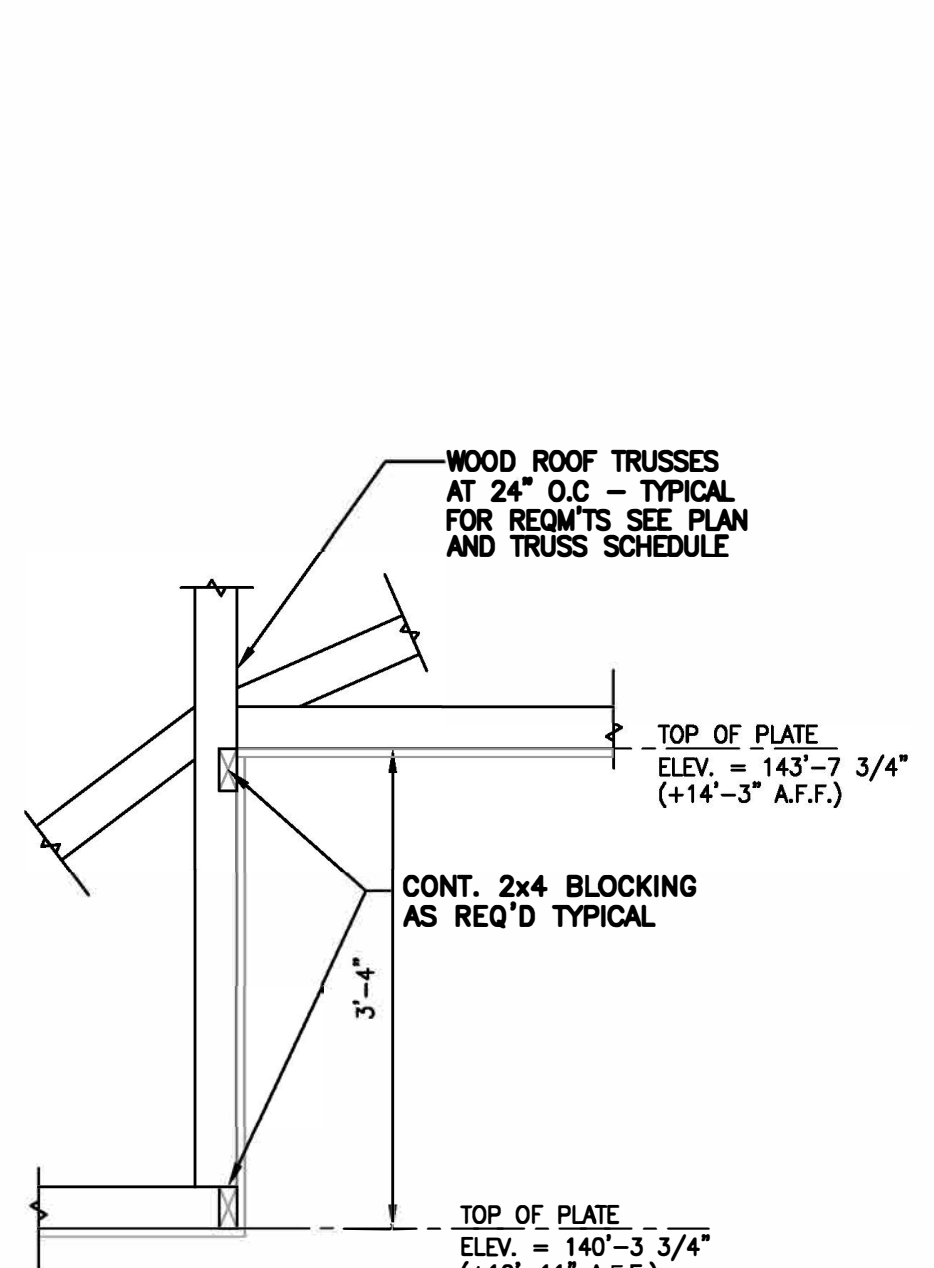
SECTION AT O.H. DOOR
SECTION R4
 SCALE: 3/4" = 1'-0"
S4.0



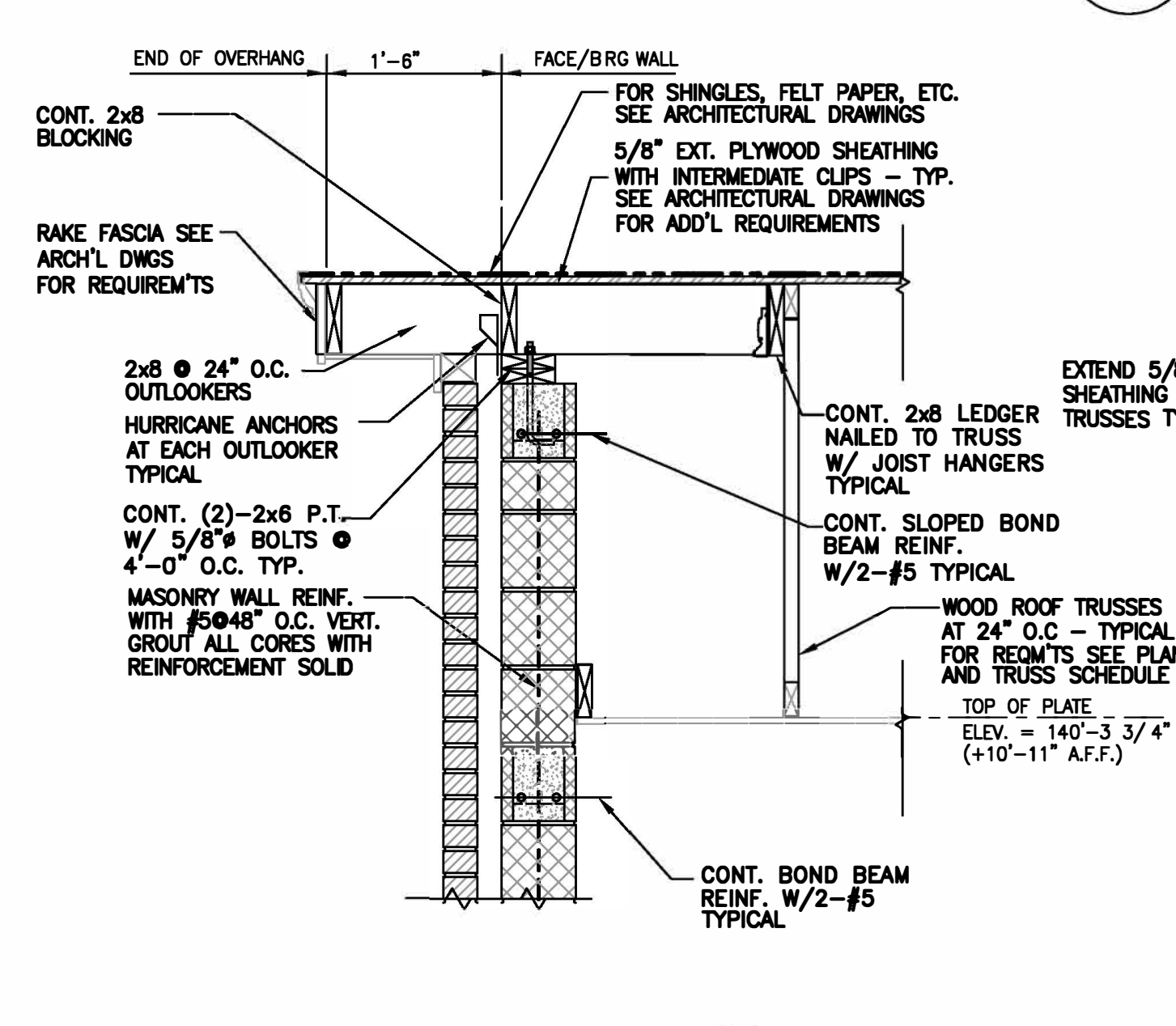
SECTION AT WALL RECESS
SECTION R3
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S4.0



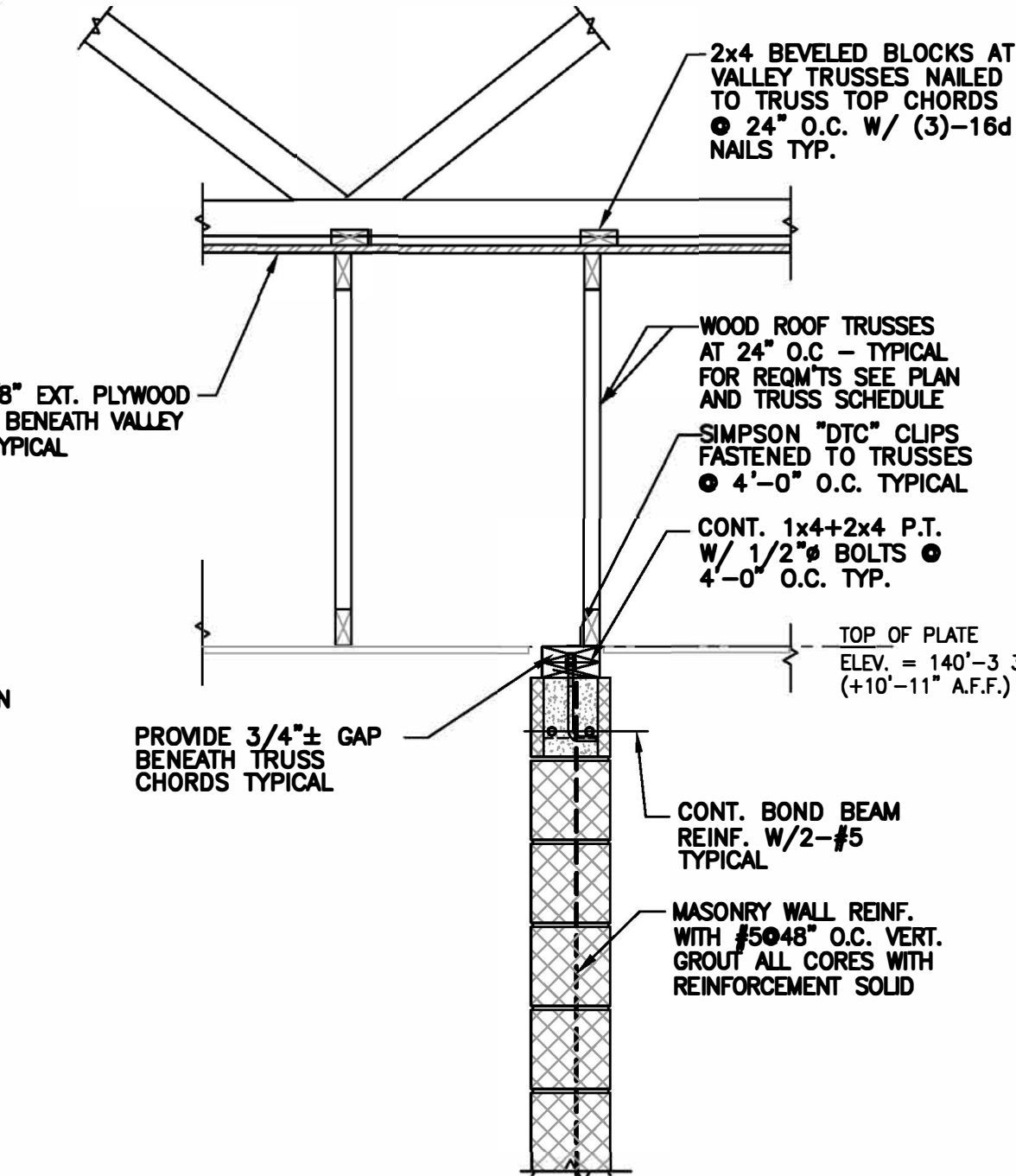
SECTION AT VALLEY TRUSSES
SECTION R2
 SCALE: 3/4" = 1'-0"
S4.0



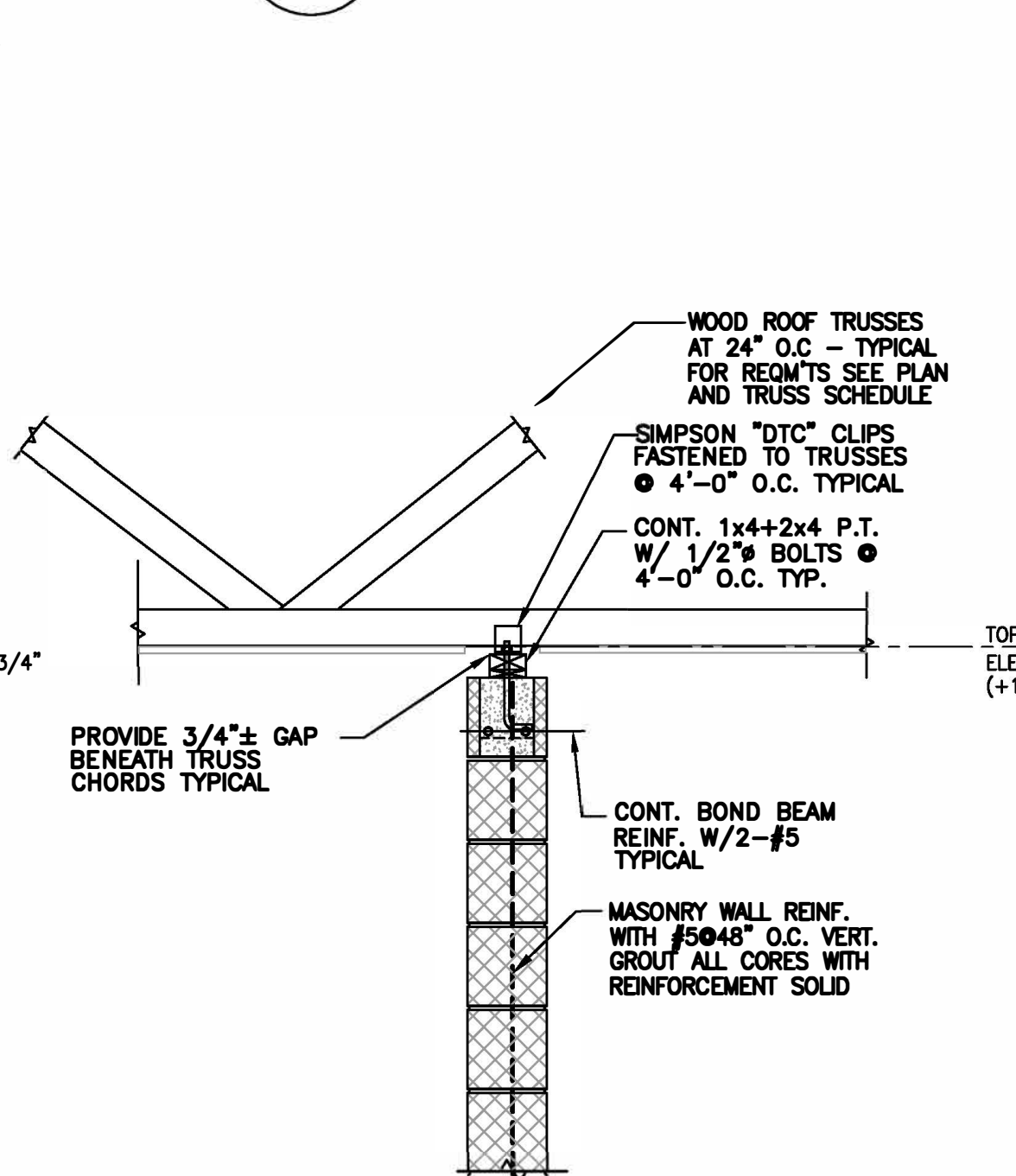
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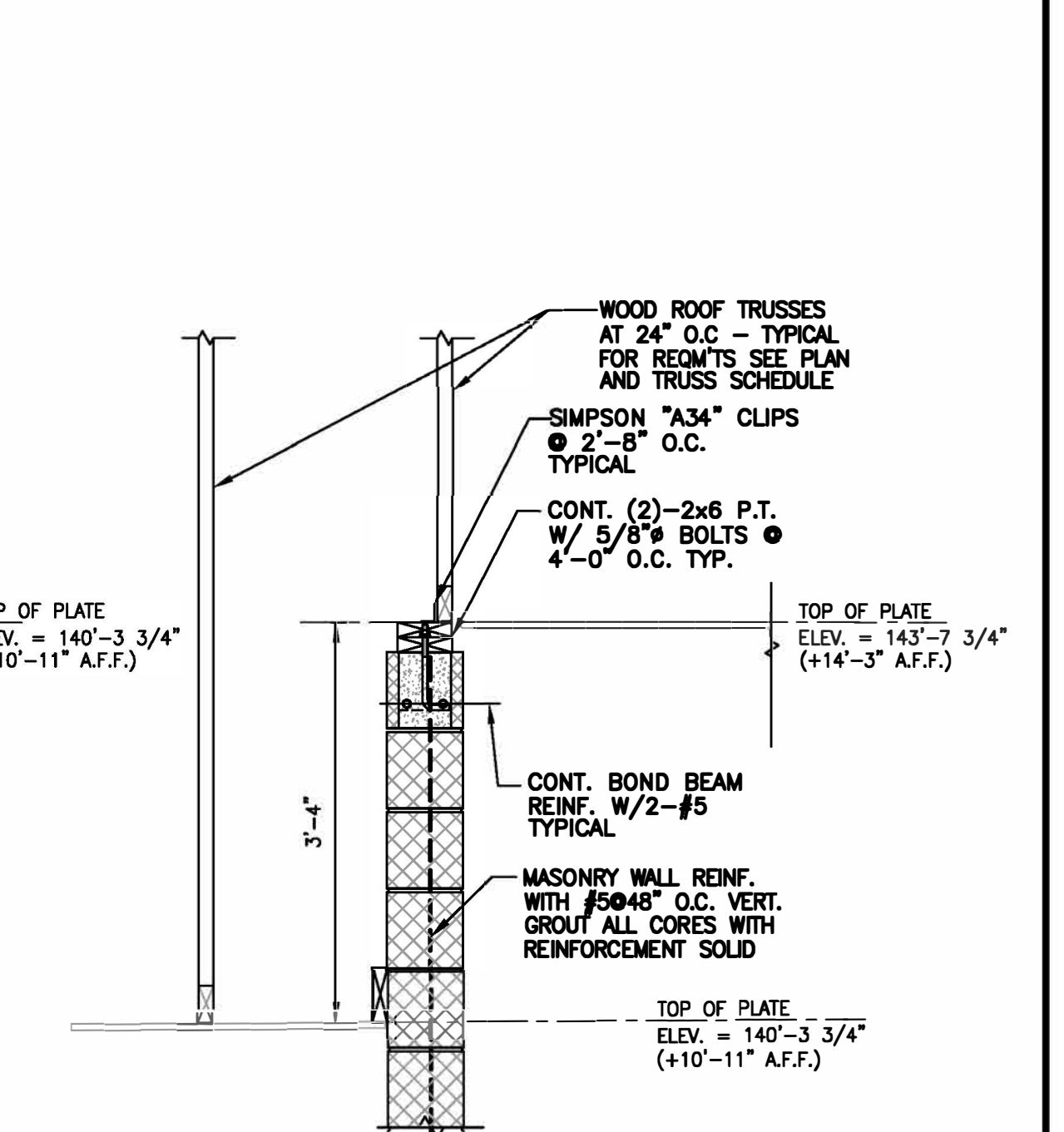
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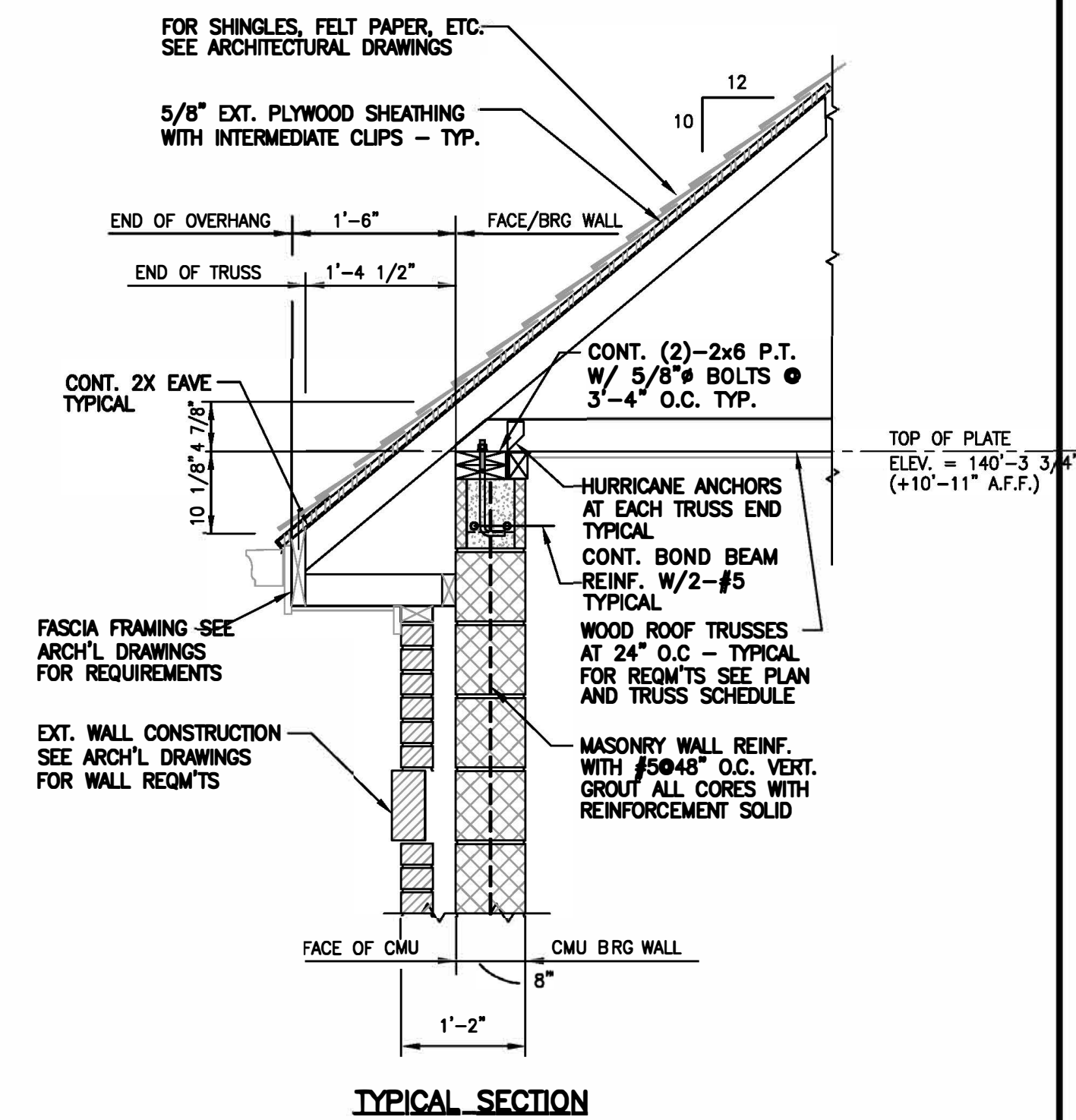
SECTION R7
 SCALE: 3/4" = 1'-0"
S4.0



SECTION AT TYPICAL WALL SUPPORT
SECTION R6
 SCALE: 3/4" = 1'-0"
S4.0



SECTION R5
 SCALE: 3/4" = 1'-0"
S4.0



SECTION R1
 SCALE: 3/4" = 1'-0"
S4.0

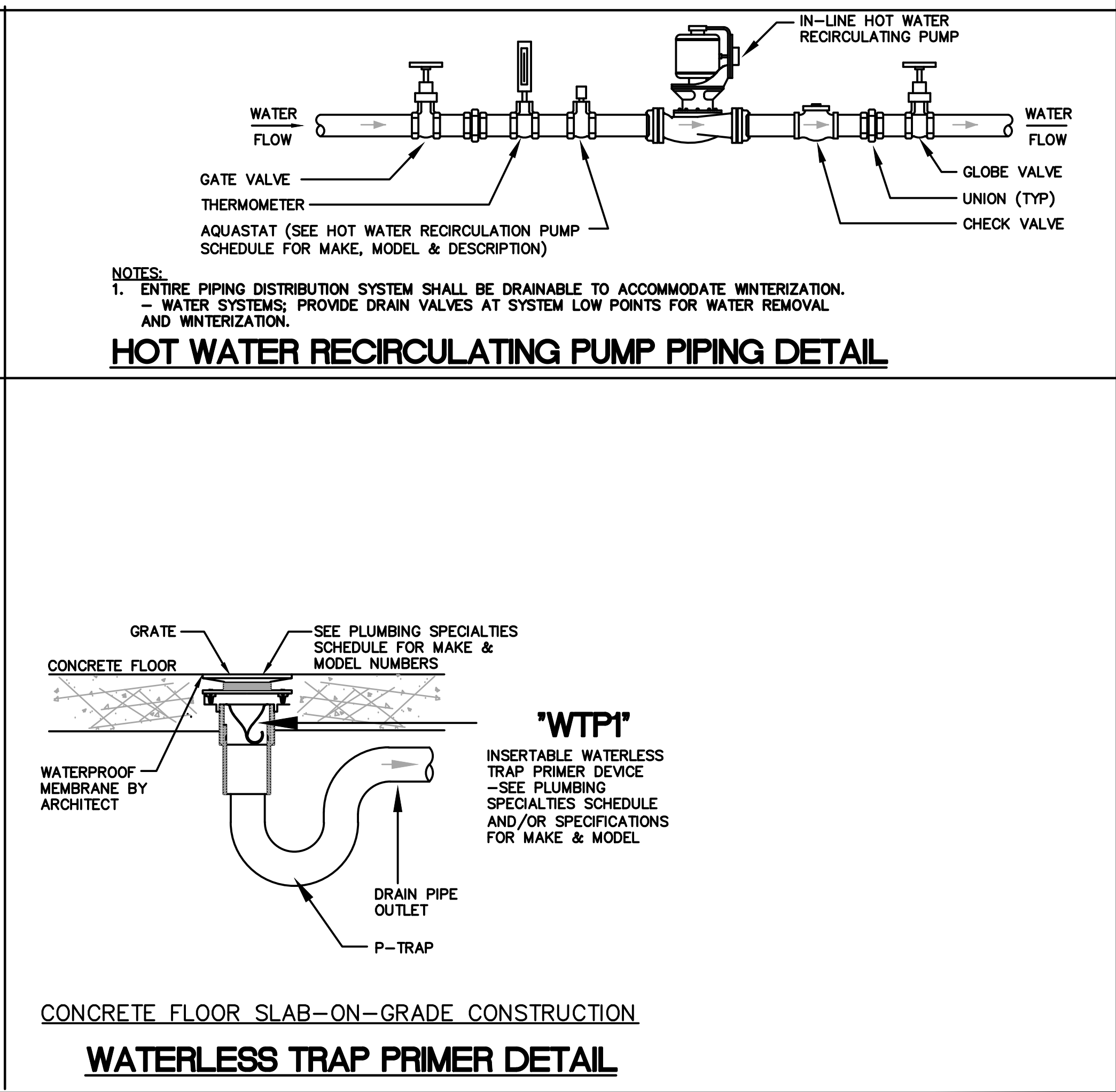
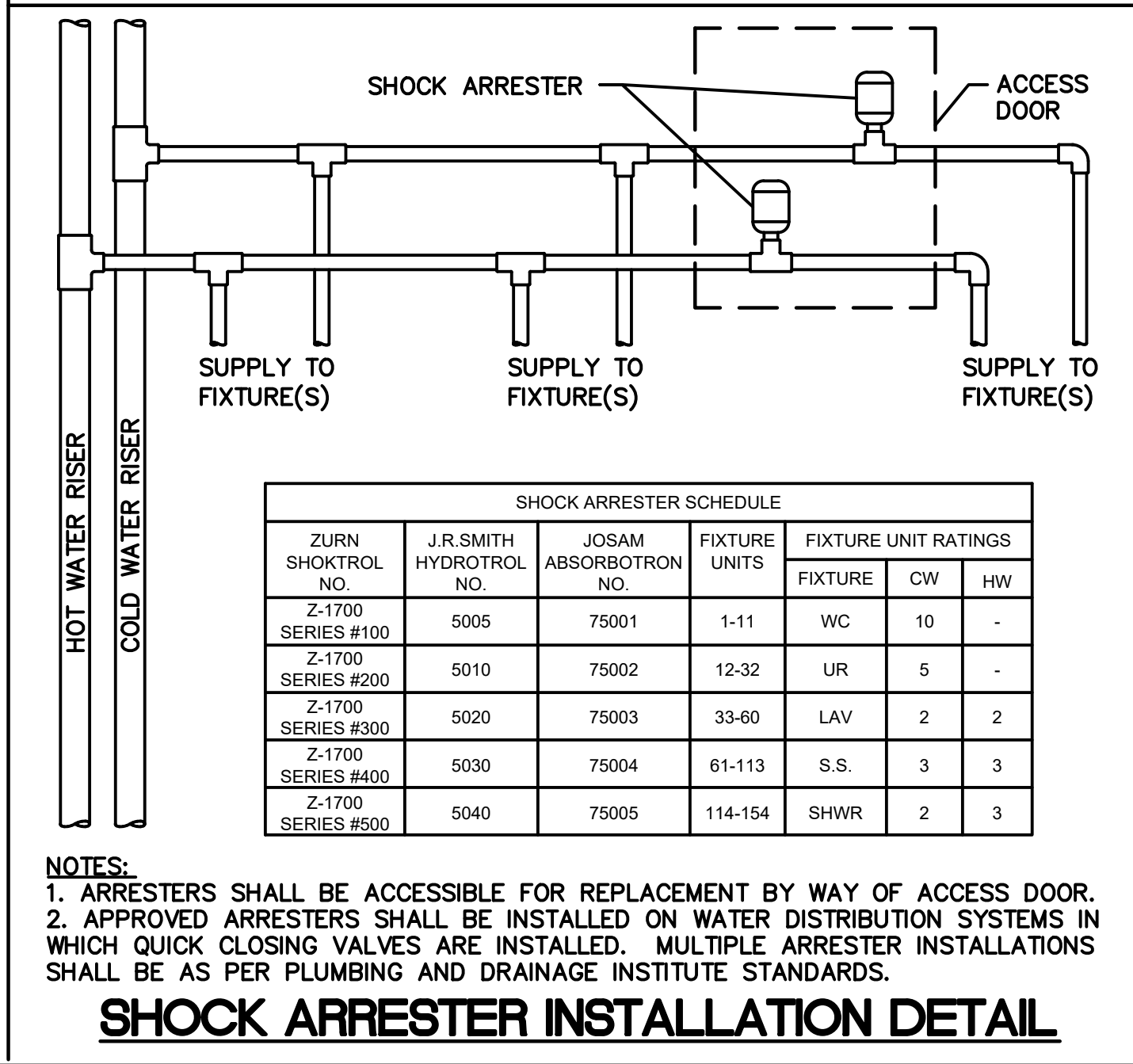
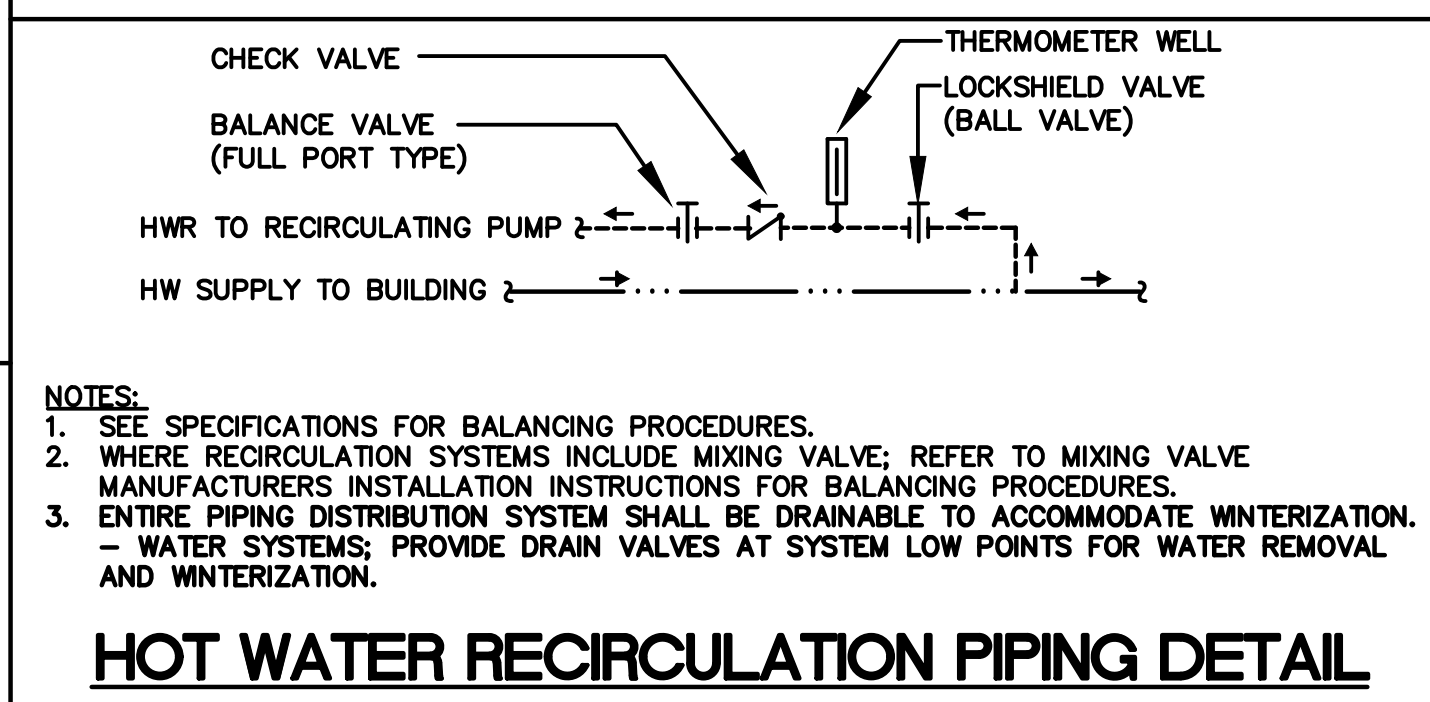
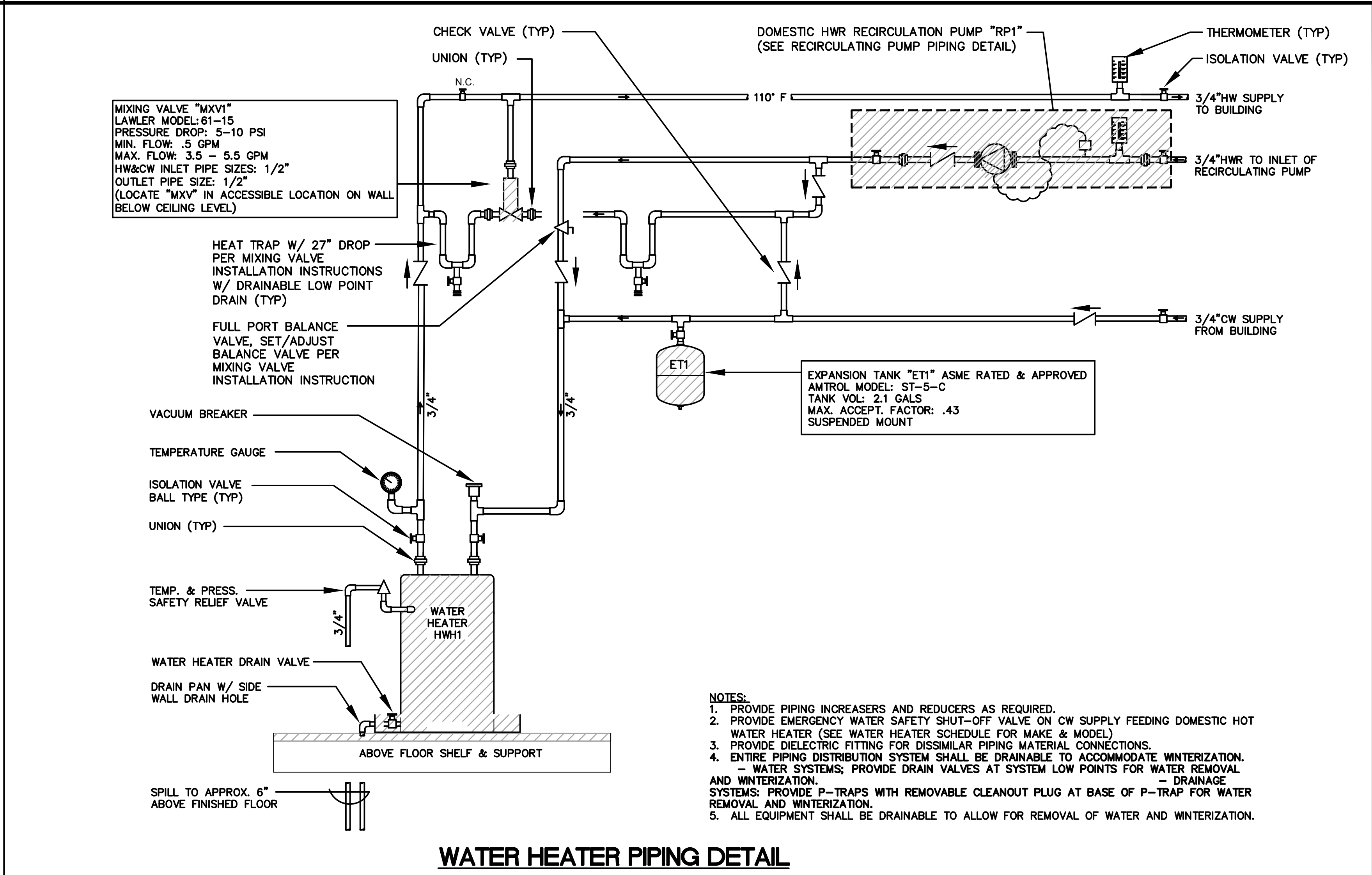
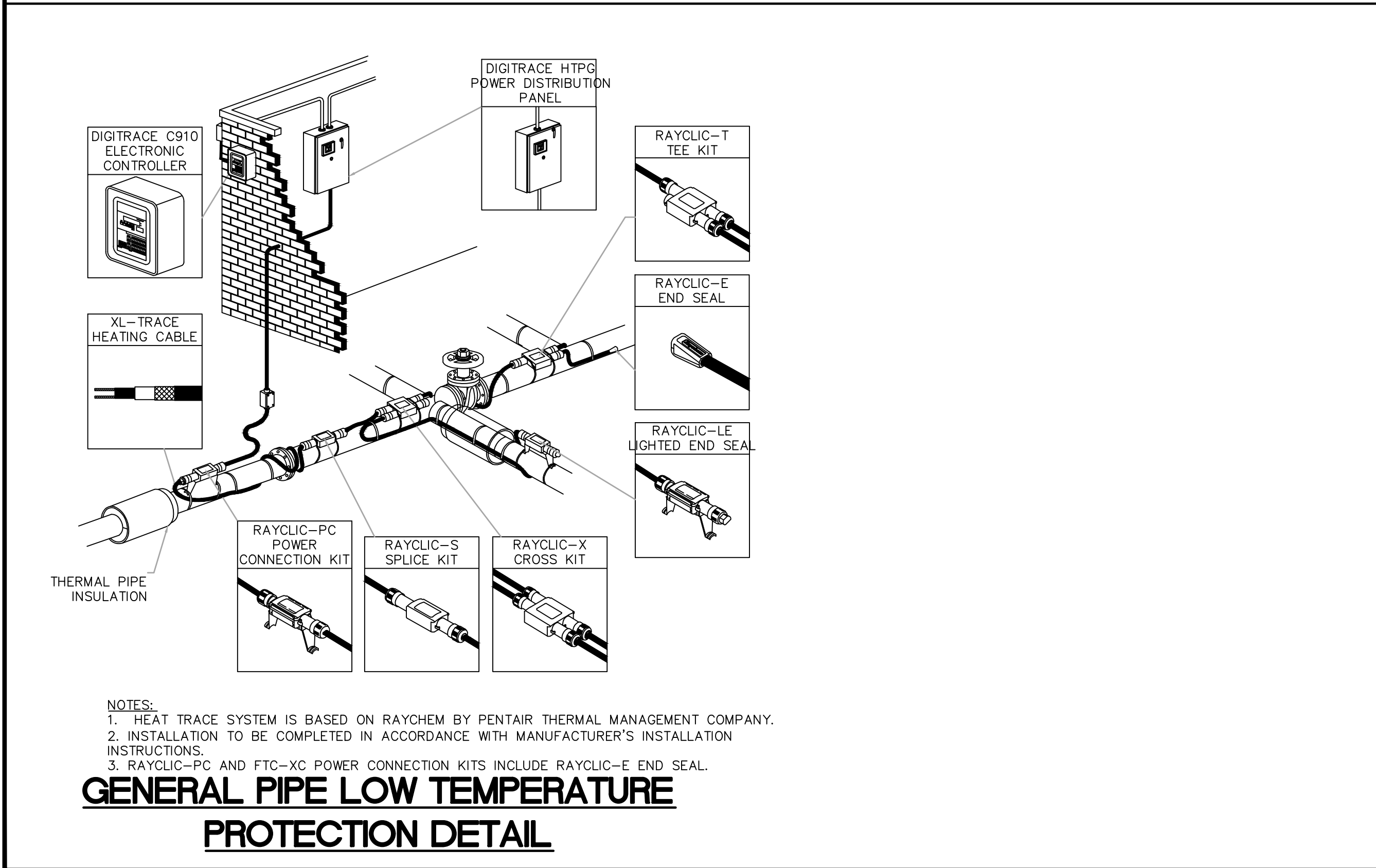
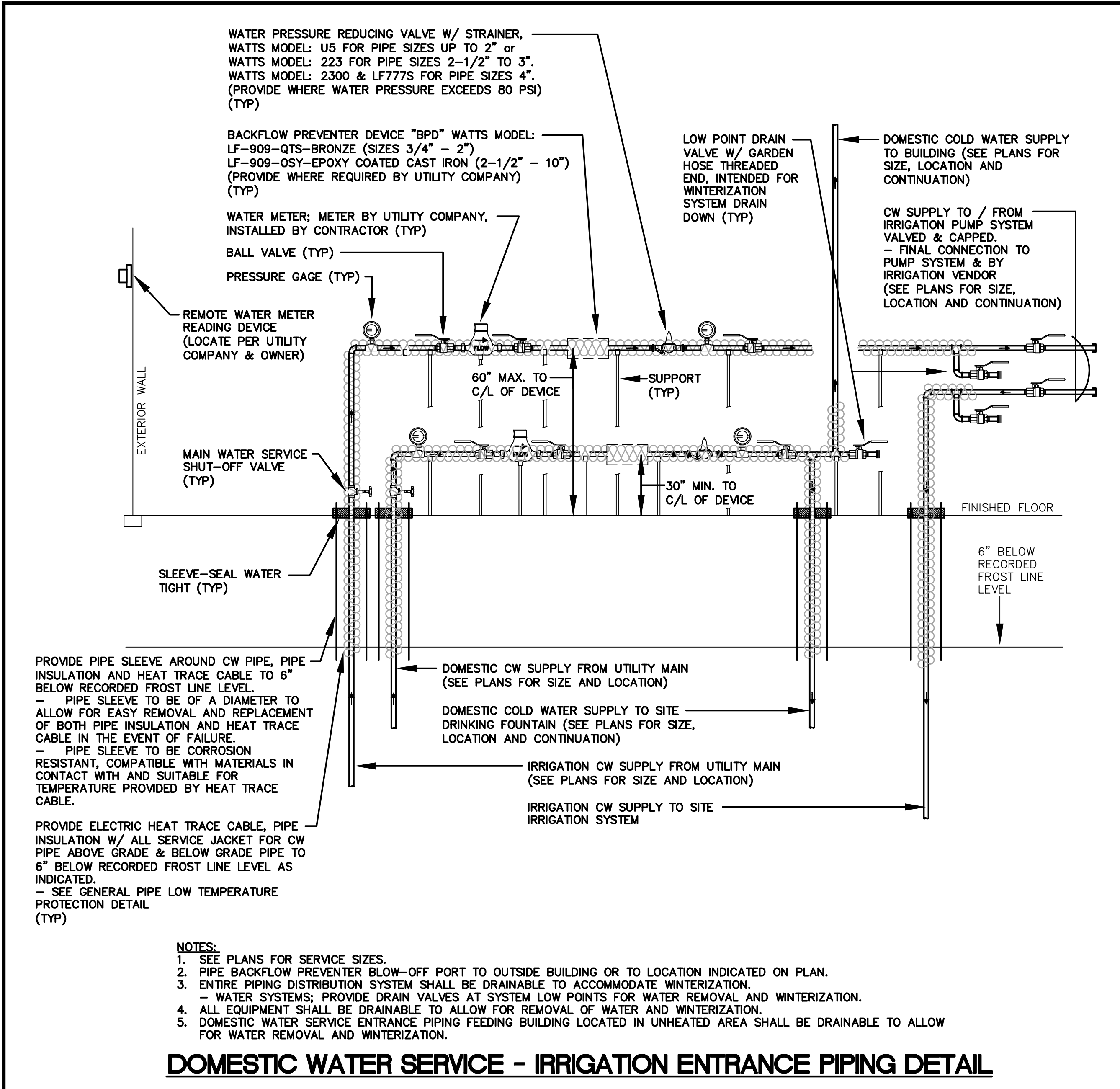
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STRUCTURAL
 ARCHITECT
 STEIN
 PROJECT NO.
 DATE
 DESCRIPTION
 BY
 DATE

MERIDEN GREEN EXTENSION - STRUCTURAL SECTIONS
RESTROOM AND FACILITIES STORAGE BUILDING
MILL STREET
MERIDEN, CONNECTICUT

ARC DESIGNED	ROT DRAWN	ARC CHECKED
AS NOTED		
OCTOBER 14, 2022		
2021-17		
5 OF 5		

S4.0



STRUCTURAL
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DATE
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DESCRIPTION

PLUMBING DETAILS
RESTROOM AND FACILITIES STORAGE BUILDING
MILL STREET
MERIDEN, CONNECTICUT

DESIGNED
DRAWN
CHECKED

N.T.S.

SCALE
OCTOBER 14, 2022

PROJECT NO.
22019

SHEET NO.
2 OF 4

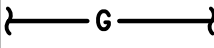
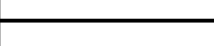
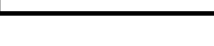
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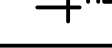
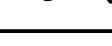
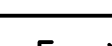
SHEET NAME

PLUMBING FIXTURE SCHEDULE													
NO.	FIXTURE	MFG.	FIXTURE TYPE & MODEL NO.	TRIM TYPE & MODEL NO.	SUPPLY PIPE MODEL NO.	P-TRAP MODEL NO.	FIXTURE CARRIER & SUPPORT NO.	PIPE SIZES					FIXTURE/TRIM DESCRIPTION & REMARKS
								TRAP	WASTE	VENT	CW	HW	
WC1 	WATER CLOSET	KOHLER	KINGSTON K-4323 (Wall Mounted Water Closet w/ Back Spud for Concealed Flush Valve Installations (1.28-1.60 GPF)	SLOAN CROWN OPTIMA 152-1.28 ES-S, EL-154(120VAC) TRANSFORMER SENSOR OPERATED, ELECTRIC POWERED CONCEALED WATER CLOSET FLUSH VALVE 1.28 GPF (Piston Type)	-	-	WALL MOUNTED W/ FIXTURE CARRIER J.R.SMITH 0211DY DOUBLE BACK TO BACK MIN. FIN. TO FIN. WALL ● 22" or J.R.SMITH 0211Y SINGLE MIN. FIN. TO FIN. WALL ● 14-1/2"	-	4"	2"	1-1/2"	-	ADA COMPLIANT, WALL MOUNTED, HIGH EFFICIENCY TOILET, ANTI-MICROBIAL SURFACE, FULLY GLAZED 2-1/8" TRAPWAY, ELONGATED BOWL, VITREOUS CHINA, 1.28 - 1.60 GPF. -PROVIDE OPEN FRONT, SOFT CLOSE SEAT LESS COVER, KOHLER STRONGHOLD ELONGATED COMM TOILET SEAL MODEL: k-4731-SC. - PROVIDE BUMPER ON ANGLE STOP TO PREVENT SEAT FROM DAMAGE WHEN IN OPEN POSITION.
UR1 	URINAL	KOHLER	BARDON K-4991-ER-0 (Wall Mounted Urinal w/ Back Spud for Concealed Flush Valve Installations (.125 - 1.0 GPF)	SLOAN CROWN OPTIMA 195-0.50 ES-S, EL-154(120VAC) TRANSFORMER SENSOR OPERATED, ELECTRIC POWERED CONCEALED URINAL FLUSH VALVE .50 GPF (Piston Type)	-	-	WALL MOUNTED W/ FIXTURE CARRIER J.R.SMITH 0600 SERIES SINGLE MIN. FIN. TO FIN. WALL ● 5"	-	2"	1-1/2"	3/4"	-	ADA COMPLIANT, WALL MOUNTED, ELONGATED BOWL, VITREOUS CHINA, .125 TO 1.0 GPF.
L1 	LAVATORY (Solid Surface Countertop with Integral Bowl)	(SEE ARCHITECTURAL PLANS, DETAILS & SPECIFICATIONS FOR MAKE, MODEL AND SIZE)		ZURN AQUASENSE Z6913-CWB-F-CP4 - TMV1, P6000-HW6 (powers up to 8 faucets) SENSOR OPERATED, ELECTRIC POWERED FAUCET (PROJECTION ●6-7/16", SPOUT HEIGHT ●3-3/4")	McGUIRE H170-LK	McGUIRE 8902 1-1/4"INLET, 1-1/2"OUTLET P-TRAP W/ CO & McGUIRE 155A GRID DRAIN W/ TAILPIECE	COUNTERTOP MOUNTED	1-1/4" x 1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	- PROVIDE STOPS, SUPPLIES, ESCUTCHEON COVER PLATES AT WALL & PREFORMED PIPE INSULATION COVERS. - PROVIDE P-TRAP, TAILPIECE, DRAIN ASSEMBLY, ESCUTCHEON COVERS AT WALL & PREFORMED PIPE INSULATION COVERS. - PROVIDE THERMOSTATIC MIXING VALVE ACORN MODEL: ST70-MB & BACK CHECK ASSEMBLIES, SET OUTLET HW ● 105°F.
TS1	LAUNDRY TUB TYPE SERVICE SINK	FIAT	SERV-A-SINK FL-1 (FLR MTD W/ LEGS)	A1	McGUIRE LF-H170	McGUIRE 8904 2"INLET, 2"OUTLET P-TRAP W/ CO	FLOOR MOUNTED W/ LEGS & WALL HANGER	2"	2"	1-1/2"	1/2"	1/2"	22"W x 24"L x 13-7/16" MOLDED STONE SINGLE TUB SERVICE TYPE SINK, INTEGRAL STRAINER, PLUG, DECK MOUNTED FAUCET & MOLDED-IN DRAIN. - PROVIDE END OF FAUCET VACUUM BREAKER WOODFORD MODEL 34H. - PROVIDE THERMOSTATIC MIXING VALVE ACORN MODEL: ST70-MB & BACK CHECK ASSEMBLIES, SET OUTLET HW ● 110°F.
L2 	LAVATORY (WALL MOUNTED)	KOHLER	PINOIR K-2035-4	SAME AS "L1"	McGUIRE H170	McGUIRE 8902 1-1/4"INLET, 1-1/2"OUTLET P-TRAP W/ CO & McGUIRE 155A GRID DRAIN W/ TAILPIECE	WALL MOUNTED W/ FIXTURE CARRIER J.R.SMITH 0700 SERIES SINGLE MIN. FIN. TO FIN. WALL ● 5"	1-1/4" x 1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	ADA COMPLIANT 22" x 18" WALL HUNG LAVATORY WITH SHROUD, VITREOUS CHINA FIXTURE. - PROVIDE STOPS, SUPPLIES, ESCUTCHEON COVER PLATES AT WALL & PREFORMED PIPE INSULATION COVERS. - PROVIDE P-TRAP, TAILPIECE, DRAIN ASSEMBLY, ESCUTCHEON COVERS AT WALL & PREFORMED PIPE INSULATION COVERS. - PROVIDE THERMOSTATIC MIXING VALVE ACORN MODEL: ST70-MB & BACK CHECK ASSEMBLIES, SET OUTLET HW ● 105°F.

NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD AND ADA FIXTURE LOCATIONS, MOUNTING HEIGHTS, ELEVATIONS AND DETAILS.
- INSTALL PRE-FORMED INSULATION COVERS FOR ALL EXPOSED SUPPLY AND DRAINAGE PIPING SERVING ADA COMPLIANT LAVATORIES AND SINKS MANUFACTURED BY TRUEBRO, PLUMBEREX, HANDYSHIELD.
- PLUMBING FIXTURE SHALL HAVE CHROME PLATED BRASS SUPPLIES, STOPS, ESCUTCHEONS COVERS, P-TRAP, GRID DRAIN, POP-UP DRAINS W/ PUSH ROD, OFFSET DRAIN, CONTINUOUS DRAIN CONNECTION (FOR DOUBLE or TRIPLE BOWL FIXTURES), SHOWER/TUB DRAIN & TAILPIECE ASSEMBLIES SHALL BE CHROME PLATED BRASS. (IN LOCATIONS WHERE PIPING IS TO BE COVERED W/ INSULATION BRASS FINISH ONLY MAY BE SUBSTITUTED).
- GRID STRAINER / BASKET STRAINER & TAILPIECE SHALL BE STAINLESS STEEL WHERE SERVING STAINLESS STEEL FIXTURES.
- TOILET ROOM LAVATORY FAUCETS SHALL HAVE 0.5 GPM AERATORS.
- SERVICE SINK FAUCETS SHALL HAVE VACUUM BREAKERS & CHECK VALVES ON HW&CW SUPPLIES EITHER INTEGRAL TO FAUCET OR PROVIDED ON HW&CW PIPES FEEDING THE FAUCET.
- WATER CLOSET/TOILET SEATS SHALL BE OF SMOOTH NON-ABSORBENT MATERIAL; ALL SEATS TO BE OF THE HINGED OPEN FRONT TYPE W/ STAINLESS STEEL HINGE & HARDWARE. (COORDINATE SEAT COLOR W/ ARCHITECT & OWNER).
- WATER CLOSET FLUSH VALVE ASSEMBLIES SHALL HAVE FACTORY FURNISHED BUMPER STOP ON ANGLE STOP OR WALL TO PREVENT SEAT FROM DAMAGE WHEN IN UP/OPEN POSITION.
- PROVIDE FIXTURES WITH COMPATIBLE CARRIER AND/OR FACTORY FURNISHED WALL HANGER/SUPPORT BRACKET ASSEMBLY UNLESS OTHERWISE INDICATED.
- PLUMBING FIXTURE - VITREOUS CHINA MATERIAL EQUIVALENT MANUFACTURER'S: KOHLER, SLOAN, TOTO.
- PLUMBING FIXTURE - TERRAZZO SOLID SURFACE/MOLDED STONE MATERIAL EQUIVALENT MANUFACTURER'S: TERRAZZO, FIAT, FLORESTONE, SWANCORP.
- WATER CLOSET/TOILET SEAT EQUIVALENT MANUFACTURER'S: CHURCH, OLSONITE, BEMIS.
- FAUCET EQUIVALENT MANUFACTURER'S: (SENSOR OPERATED FAUCETS: T&S BRASS, HYDROTEK, TOTO, SLOAN, DELTA).
- FLUSH VALVE EQUIVALENT MANUFACTURER'S: SLOAN, DELANY, TOTO, HYDROTEK.
- PLUMBING FIXTURE CARRIER EQUIVALENT MANUFACTURER'S: J.R. SMITH, JOSAM, WADE, WATTS.
- SUPPLIES, STOPS, ESCUTCHEONS COVERS, P-TRAP, GRID DRAIN, POP-UP DRAINS W/ PUSH ROD, OFFSET DRAIN, CONTINUOUS DRAIN CONNECTION (FOR DOUBLE or TRIPLE BOWL FIXTURES), SHOWER/TUB DRAIN & TAILPIECE ASSEMBLIES EQUIVALENT MANUFACTURER'S: McGUIRE, T&S BRASS, BRASS CRAFT. WATTS.
- GRID STRAINER / BASKET STRAINER & TAILPIECE (STAINLESS STEEL) EQUIVALENT MANUFACTURER'S: McGUIRE, T&S BRASS, WATTS, BRASS CRAFT.
- PLUMBING FIXTURES (VITREOUS CHINA & SOLID SURFACE) SHALL BE WHITE IN COLOR UNLESS OTHERWISE INDICATED.

PLUMBING LEGEND	
	NATURAL GAS
	UNDERGROUND SANITARY or WASTE
	ABOVE GROUND SANITARY or WASTE
	VENT
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER -110 DEG
	DOMESTIC HOT WATER 110°F RECIRCULATION

PLUMBING SYMBOL TABLE	
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
BPD	BACKFLOW PREVENTER DEVICE
CW	DOMESTIC COLD WATER
ET	EXPANSION TANK
F.F.	FINISHED FLOOR
G	GAS
HWH	DOMESTIC HOT WATER HEATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
IE	INVERT ELEVATION
S	SANITARY
ST	STORM
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
	UTILITY METER (GAS or WATER)
	BALL VALVE
	HOSE BIB
	WALL HYDRANT
	TEE DOWN
	PIPE UP
	PIPE DN
	CAPPED PIPE
	DIRECTION OF FLOW
	CLEAN OUT
	WALL CLEAN OUT
	FLOOR CLEAN OUT
	P-TRAP
	GAS VALVE
	TEMPERATURE MIXING VALVE

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DATE
OCTOBER 14, 2022

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SHEET NO.
3 OF 4

P3.0
SHEET NAME

PLUMBING SCHEDULES
RESTROOM AND FACILITIES STORAGE BUILDING
MILL STREET
MERIDEN, CONNECTICUT

PROGRESSIVE
ENGINEERING
1200 WEST 10TH AVENUE
DENVER, CO 80202
303-733-8800
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PLUMBING SPECIALTIES SCHEDULE				
UNIT ID	MFG.	MODEL NO.	DESCRIPTION	DESCRIPTION
FD1	JR SMITH	2005Y-A06NB -UP050	FLOOR DRAIN (FINISHED AREA LIGHT DUTY TOP)	CAST IRON FLOOR DRAIN WITH INTEGRAL CLAMPING COLLAR, SEEPAGE OPENINGS, 1/2" TRAP PRIMER TAPPING, 6" DIA. ROUND "LIGHT DUTY" NICKEL BRONZE TOP WITH VANDAL RESISTANT SCREWS.
FC01	JR SMITH	4023S-NB-FC-U	FLOOR CLEANOUT (FINISHED AREA LIGHT DUTY)	CAST IRON FLOOR CLEANOUT WITH THREADED ADJUSTABLE HOUSING, FLANGED FERRULE W/ COUNTERSUNK TAPERED BRASS PLUG, 6" ROUND "LIGHT DUTY" NICKEL BRONZE SCORIATED TOP. (LIGHT DUTY TOP, UNDER 2000 LBS)
WH1	WOODFORD (FREEZELESS)	B65	WALL HYDRANT (LOCKABLE BOX TYPE)	AUTOMATIC DRAINING W/ANTI-SIPHON VACUUM BREAKER W/ 3/4" GARDEN HOSE THREADED OUTLET, FREEZELESS WALL HYDRANT & LOOSE TEE KEY OPERATED, CAST BRONZE BOX WITH SCORIATED HINGED LATCHING COVER, PROVIDE CHROME PLATED FINISH WHERE DIRECTED BY ARCHITECT. (PROVIDE INLET OPTION TO SUIT PROJECT & APPLICATION).
HB1	WOODFORD (INTERIOR USE)	26	WALL FAUCET (EXPOSED)	BACKFLOW PROTECTED EXPOSED WALL FAUCET, 3/4" GARDEN HOSE THREADED OUTLET, INTEGRAL BACKFLOW PREVENTER-VACUUM BREAKER, KEY TEE OPERATING HANDLE. -PROVIDE ROUGH BRASS (MACHANICAL AREA) / POLISHED CHROME (FINISHED AREA). -PROVIDE INLET OPTION TO SUIT PROJECT & APPLICATION.
WTP1	J.R. SMITH	2692	QUAD CLOSE WATERLESS INSERTABLE TRAP SEAL DEVICE	INSERTABLE, WATERLESS TYPE TRAP SEAL DEVICE.
NOTES: 1. ABOVE SPECIALTIES ARE BASED ON LISTED MANUFACTURER(S), EQUIVALENT MANUFACTURERS LISTED BELOW MAY BE SUBMITTED FOR CONSIDERATION, ALL SUBSTITUTIONS MUST BE APPROVED BY ENGINEER. 2. COORDINATE INSTALLATION HEIGHTS OF DEVICES AND OR EQUIPMENT SPECIFIED IN THIS SCHEDULE WITH ARCHITECT UNLESS OTHERWISE INDICATED. 3. FLOOR DRAIN EQUIVALENT MANUFACTURERS: WADE, JOSAM, WATTS, FROET. 4. FLOOR, WALL, GRADE CLEANOUT EQUIVALENT MANUFACTURERS: WADE, JOSAM, WATTS. 5. TRAP PRIMER EQUIVALENT MANUFACTURERS: (WATERLESS TYPE: WADE, PPP, J.R. SMITH, JOSAM, WATTS). 6. WALL HYDRANT & HOSE BIB EQUIVALENT MANUFACTURERS: J.R. SMITH, WADE JOSAM, WATTS.				

WATER HEATER SCHEDULE										
ITEM	MANUFACTURER	MODEL	TYPE	GALLONS	# OF HEATING ELEMENTS	KW	FLA	VOLTAGE	PHASE	REMARKS
HWH1	A.O. SMITH	DURA POWER DEN-30	ELECTRIC	30	2	9KW (2 @ 4.5KW EACH) *	19.2	208	1	45 GPH RECOVERY AT 80°F RISE
NOTES: *SIMULTANEOUS DUAL ELEMENT OPERATION 1. UNIT SELECTION BASED ON A.O. SMITH: EQUIVALENT MANUFACTURES BY BRADFORD WHITE, LOCHINVAR, STATE. 2. PROVIDE ALUMINUM DRAIN PAN AS MANUFACTURED BY OATEY. 3. PROVIDE AUTOMATIC WATER DETECTOR/SAFETY SHUT-OFF SYSTEM WATTS: FLOODSAFE WDS-E220; EQUIVALENT MANUFACTURERS BY FIRSTSMART SENSOR (FLOODSTOPPER SYSTEM) OR TACO (WAGS). COORDINATE ELECTRICAL POWER REQUIREMENTS WITH ELECTRICIAN. 4. SEE WATER HEATER DETAIL FOR HW OUTLET TEMPERATURES, PIPING ARRANGEMENT & SPECIALTIES. ACCESSORIES: 1. COMBINATION TEMPERATURE/PRESSURE GAUGE. 2. LOW WATER CUTOFF. 3. PROVIDE ELECTRICAL POWER DISCONNECT. STANDARD FEATURES: -MEET ASHRAE ENERGY EFFICIENCY STANDARDS -300 PSI TEST PRESSURE, 150 PSI WORKING PRESSURE -GLASS LINED STEEL TANK -NON-OFC FOAM INSULATION W/ STEEL BAKED ON ENAMELED OUTER JACKET -ADJUSTABLE THERMOSTAT -AUTOMATIC HIGH TEMP CUTOFF SWITCH OVERHEAT PROTECTION -EXTRUDED HIGH DENSITY ANODE ROD -DIP TUBE WITHSTANDS TEMPERATURES OF 400 DEGREES -ASME TEMPERATURE AND PRESSURE RELIEF VALVE -FACTORY INSTALLED HEAT TRAPS (FOR NON-RECIRCULATED HW SYSTEMS) -U.L. LISTED -JUNCTION BOX (MANUFACTURER PROVIDED ON MODELS ABOVE 20 GAL CAPACITY), (ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX FOR MODELS 20 GAL CAPACITY AND BELOW) -3 YEAR LIMITED TANK WARRANTEE										

HOT WATER RECIRCULATION PUMP SCHEDULE											
UNIT ID	MODEL NO.	TYPE	FLANGE DIAMETER	GPM	HEAD (FT)	PUMP		MOTOR			ACCESSORIES
						EFF.	RPM	HP	VOLTS	PHASE	
RP1	PL-30B/1BL013LF (LEAD FREE BRONZE)	INLINE	3/4"	3	20	50%	2650	1/12	115	1	1,2
NOTES: 1. PUMP SELECTION BASED ON BELL & GOSSETT EQUIVLENT MANUFACTURES BY ARMSTRONG AND TACO. 2. PUMP SHALL BE OF ALL BRONZE CONSTRUCTION (LEAD FREE) & APPROVED FOR POTABLE DOMESTIC WATER USE.											
ACCESSORIES: 1. COMBINATION AUTOMATIC TIMER & AQUASTAT KIT; BELL & GOSSET MODELS: TC-1 & AQ-3/4 (FOR PIPE SIZES 1/2" or 3/4"). ELECTRICAL POWER REQUIREMENT FOR AUTOMATIC TIME KIT: 115/120VAC, 60HZ, 1PH. 2. MOUNT AQUASTAT ON SUCTION SIDE OF HOT WATER RECIRCUALTION PUMP. 3. PROVIDE ELECTRICAL POWER DISCONNECT											

PLUMBING SPECIFICATION / MATERIAL NOTES:

1. ARCHITECT'S GENERAL CONDITIONS ARE A PART OF THIS DIVISION.
2. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS OF LOCAL AND STATE AGENCIES AND UTILITY COMPANIES REQUIREMENTS.
3. ALL EQUIPMENT SHALL BE UL LISTED. THE CONTRACTOR SHALL BEAR THE COST OF ALL FEES, PERMITS, LICENSES AND TAXES, AND ANY UTILITY COMPANY CHARGES IN CONNECTION WITH HIS WORK.
4. THE CONTRACTOR SHALL PROVIDE A GUARANTEE COVERING ALL MATERIAL AND WORKMANSHIP FOR ONE (1) YEAR FOLLOWING THE DATE OF ACCEPTANCE.
5. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL PLANS AND THE PLANS AND SPECIFICATIONS OF OTHER TRADES TO DETERMINE WORK EXTENT. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IF SO DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT TO PREVENT CONFLICT WITH THOSE OF OTHER TRADES AND FOR PROPER INSTALLATION OF WORK. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
6. SUBMIT AS-BUILT DRAWINGS AND OPERATION AND MAINTENANCE MANUALS AT THE COMPLETION OF THE PROJECT.
7. WASTE, SANITARY AND VENT PIPING BELOW GRADE ASTM D 2665 SOLID WALL SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS MAY BE SUBSTITUTED FOR ALL SIZES OF SANITARY, WASTE AND VENT PIPING.
8. WASTE, SANITARY AND VENT PIPING MAINS, ABOVE GRADE ASTM D 2665 SOLID WALL SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS FOR ALL SIZES OF SANITARY, WASTE AND VENT PIPING. -P-TRAPS LOCATED ABOVE GRADE SHALL HAVE CLEANOUT A BASE OF TRAP TO ALLOW FOR DRAINING OF WATER FROM TRAP AND WINTERIZATION.
9. WATER SERVICE ENTRANCE MAINS BELOW GRADE SHALL BE TYPE "L" COPPER TUBE ASTM B 88 WITH WROUGHT COPPER SWEAT FITTINGS ASTM B 16.18 OR ASTM B 16.22 USING LEAD-FREE SOLDER. 2-1/2" AND LARGER SHALL BE CEMENT-LINED DUCTILE IRON, CLASS 54, WITH PUSH-ON OR MECHANICAL JOINTS RATED FOR 350 PSI. -IRRIGATION PIPING/MATERIALS, PIPE ROUTING AND POINT OF CONNECTION SHALL BE COORDINATED WITH IRRIGATION VENDOR PRIOR TO INSTALLATION.
10. WATER PIPE BELOW GRADE SHALL BE TYPE "K" SOFT COPPER TUBE WITH WROUGHT COPPER SWEAT FITTINGS USING LEAD-FREE SOLDER. - IRRIGATION PIPING/MATERIALS, PIPE ROUTING AND POINT OF CONNECTION SHALL BE COORDINATED WITH IRRIGATION VENDOR PRIOR TO INSTALLATION. - ENTIRE PIPING DISTRIBUTION SYSTEM SHALL BE INSTALLED WITHOUT SAGS AND DRAINABLE TO ALLOW FOR WINTERIZATION.
11. WATER PIPE ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SWEAT FITTINGS USING LEAD-FREE SOLDER. VALVES SHALL BE BALL TYPE WITH SCREWED ENDS BY APOLLO #70-100, OR WATTS #B-6000 OR EQUIVALENT. - IRRIGATION PIPING/MATERIALS, PIPE ROUTING AND POINT OF CONNECTION SHALL BE COORDINATED WITH IRRIGATION VENDOR PRIOR TO INSTALLATION. - ENTIRE PIPING DISTRIBUTION SYSTEM SHALL BE INSTALLED WITHOUT SAGS AND DRAINABLE TO ALLOW FOR WINTERIZATION.
12. PROVIDE HANGERS AND SUPPORTS FOR ALL PIPING SYSTEMS INCLUDING SUPPORT DEVICES PER NFPA 54 & MSS-SP-68. PROVIDE HANGERS AND SUPPORTS SUITABLE FOR SERVICE AND SELECTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED MAXIMUM LOADING. SUPPORT FROM BUILDING STRUCTURE. HANGER AND SUPPORT SPACING SHALL BE IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS.
13. PROVIDE PRE-FORMED INSULATION COVERS FOR EXPOSED SUPPLY AND DRAINAGE PIPING LOCATED BELOW ADA COMPLIANT FIXTURE(S). EQUIVALENT MANUFACTURER'S: TRUEBRO, PLUMBEREX.
14. PROVIDE FIBERGLASS INSULATION W/ ALL SERVICE CLEANABLE OUTER SURFACE & LABELING-INCLUDE FLOW ARROWS ON ALL CW & HW PIPES WITHIN PROJECT AREA, INSULATION THICKNESS PER MOST CURRENT ENERGY CODE, IDENTIFY PIPING IN COMPLIANCE WITH ASME A13.
15. PROVIDE VALVES TAGS FOR ISOLATION VALVES & NAME PLATES FOR EQUIPMENT, ETC. WITHIN PROJECT AREA, IDENTIFY VALVES & EQUIPMENT IN COMPLIANCE WITH ASME A13.
16. PIPING SHALL BE IDENTIFIED AT LEAST EVERY 20 FT. WITH NAME AND FLOW DIRECTION WITH SNAP-ON PLASTIC PIPE MARKERS. ALL EQUIPMENT SHALL BE IDENTIFIED WITH ENGRAVED PLASTIC MARKERS, CHAIN TO VALVE AND PROVIDE IDENTIFICATION WALL CHART.
17. PROVIDE WATER HAMMER ARRESTING AIR CHAMBERS EQUAL TO "PPP", INC. OR ACCEPTABLE EQUIVALENT ON HOT AND COLD WATER PIPING PER PDI-WH 201, AT FIXTURES WHERE QUICK-CLOSING VALVES ARE USED OR AS INDICATED ON PLANS.
18. PROVIDE SHUT OFF VALVES AT ALL PLUMBING FIXTURE AND EQUIPMENT LOCATIONS.
19. PROVIDE DIELECTRIC COUPLING BETWEEN PIPING OF DIS-SIMILAR METERIALS.
20. PROVIDE AIR VENTS AT HIGH POINTS OF WATER PIPING.
21. INSTALL & LOCATE BELOW GRADE DOMESTIC WATER PIPING TO PREVENT FREEZING PER CODE AND PER UTILITY COMPANY REQUIREMENTS.
22. PROVIDE CW PIPING TO ALL TRAP PRIMERS: ALL FLOOR DRAINS SHALL BE PROVIDED WITH P-TRAPS AND TRAP PRIMING TAPPING UNLESS OTHERWISE INDICATED. - PIPING DISTRIBUTION SYSTEM SHALL BE INSTALLED WITHOUT SAGS AND BE ABLE TO REMOVE WATER TO ALLOW FOR WINTERIZATION.
23. SEAL PIPE PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS OR FLOORS WITH A UL APPROVED FIRE-STOP FITTING CLASSIFIED FOR AN HOURLY RATE EQUAL TO THE RATING CONSTRUCTION. INSULATING MATERIALS SHALL BE COMPATIBLE WITH PIPING SYSTEM BEING INSTALLED. FIRE CAULK TO HAVE FIRE RATING EQUIVALENT OR BETTER THAN WALL FIRE RATING.
24. HYDROSTATICALLY TEST DOMESTIC WATER PIPING AT 150 PSI FOR THREE (3) HOURS WITHOUT LEAKS.
25. TEST WASTE, SANITARY AND VENT PIPING WITH A 10-FOOT HEAD OF WATER FOR A MINIMUM OF 15 MINUTES WITHOUT LEAKS.
26. TEST BURIED OR CONCEALED PIPING BEFORE CLOSING IN OR BACKFILLING.
27. DISINFECT POTABLE WATER SYSTEMS (NEW AND EXISTING) PRIOR TO BUILDING OCCUPANCY PER CODES AND LOCAL OFFICIALS REQUIREMENTS AND/OR AWWA C651 OR AWWA C652. FLUSH SYSTEMS THOROUGHLY WITH POTABLE WATER AFTER DISINFECTION. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION, REPEAT SAMPLE PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.
28. CLEAN INTERIOR OF PIPING; REMOVE DIRT OR DEBRIS AS WORK PROGRESSES.
29. PROTECT DRAINS DURING REMAINDER OF CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT AND DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC AND CONSTRUCTION WORK.
30. PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF DAY AND WHEN WORK STOPS.
31. FURNISH ALL EQUIPMENT MANUALS AND WARRANTIES TO TENANT/BUILDING OWNER AT THE COMPLETION OF THE PROJECT.

STRUCTURAL
STEIN TROOST
ARCHITECT

SLR
99 REALTY DRIVE
SHELTON, CT 06410
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SCALE
N.T.S.

DATE
OCTOBER 14, 2022

PROJECT NO.
22019

SHEET NO.
4 OF 4

P4.0
SHEET NAME

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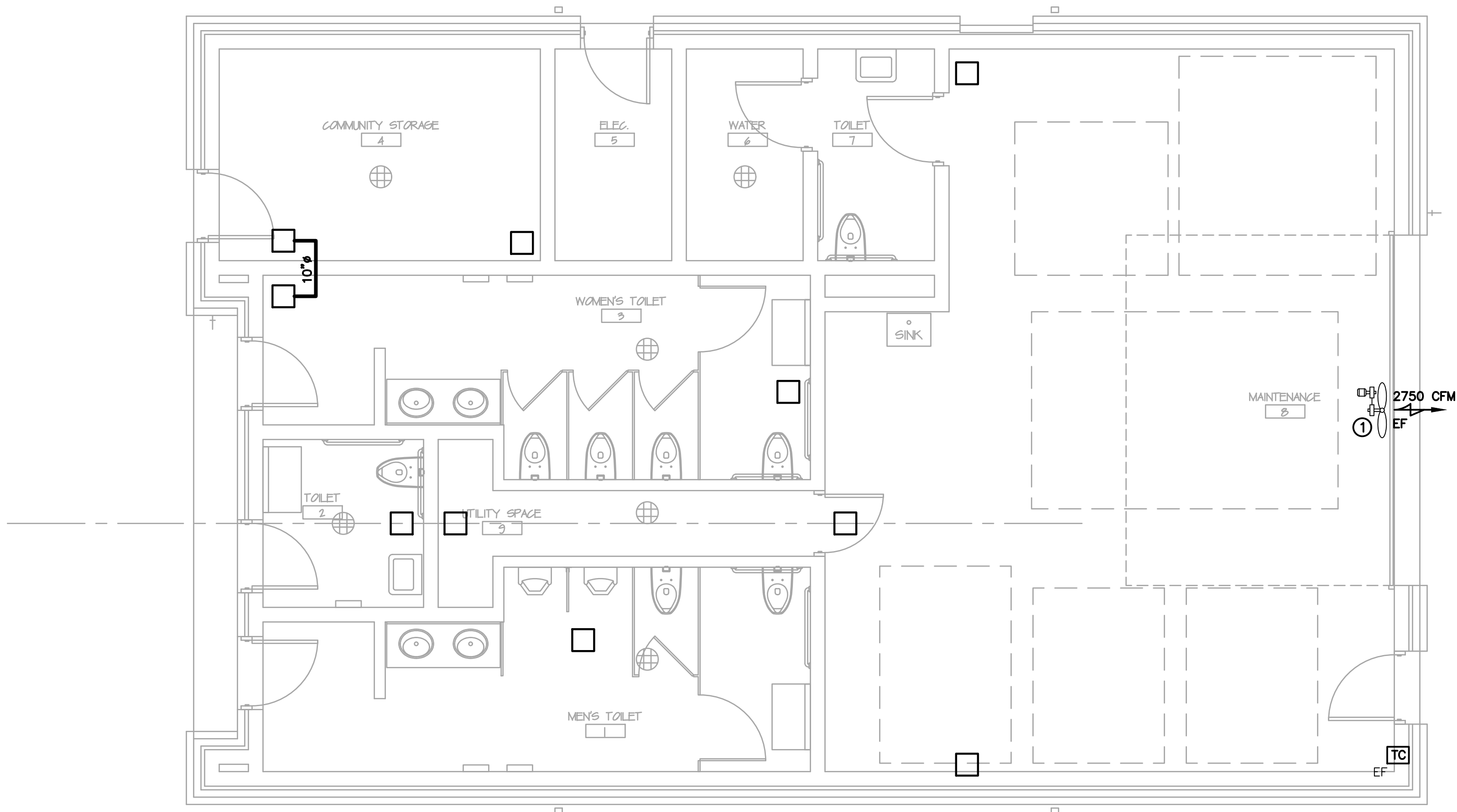
DATE
OCTOBER 14, 2022

PROJECT NO.
22019

SHEET NO.
4 OF 4

P4.0
SHEET NAME

PLUMBING SCHEDULES & SPECIFICATIONS
RESTROOM AND FACILITIES STORAGE BUILDING
MILL STREET
MERIDEN, CONNECTICUT



GENERAL HVAC NOTES:

1. SEISMICALLY SUPPORT EQUIPMENT AND DUCTWORK FROM BUILDING STRUCTURE. MAINTAIN VIBRATION FREE INSTALLATION.
2. PROVIDE ALL SERVICE/ACCESS CLEARANCES FOR MECHANICAL EQUIPMENT PER MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS. COORDINATE PRIOR TO INSTALLATION OF EQUIPMENT.
3. FLEXIBLE DUCT TO AIR OUTLETS SHALL BE UL CLASS 1 CONNECTORS WITH AIRTIGHT CORE, GALVANIZED WIRE HELIX AND PRE-INSULATED WITH ONE (1") INCH, 3/4 PCF FIBERGLASS WITH A FLAME RETARDANT VAPOR BARRIER, FLEXMASTER TYPE IX.
4. LOUVER PLENUM SHALL BE GALVANIZED STEEL WITH FLANGED JOINTS. PITCH BASE OF PLENUM TOWARD LOUVER FOR MOISTURE DRAINAGE. PLENUMS SHALL BE FIRMLY ATTACHED TO LOUVER AND CAULKED WEATHER TIGHT AT JOINTS.
5. PLENUM CEILING BOX SHALL BE GALVANIZED STEEL WITH FLANGED JOINTS.

DRAWING KEY NOTES:

- ① PROVIDE SIDEWALL EXHAUST FAN AS MANUFACTURED BY GREENHECK MODEL SE1-16-428-A5, 2750 CFM @ 0.375" ESP, 1/2 HP, 208V, 3PH. PROVIDE PLENUM ON LOUVER FOR FAN INSTALLATION. PROVIDE PROGRAMMABLE TIME CLOCK FOR FAN CONTROL.

HVAC TAGS	
EF	EXHAUST FAN
CFM	CUBIC FEET PER MINUTE
HVAC LEGEND	
	DUCT OR PIPING SINGLE LINE
HVAC SYMBOL TABLE	
	12X12 STEEL CEILING LOUVER
	TIME CLOCK

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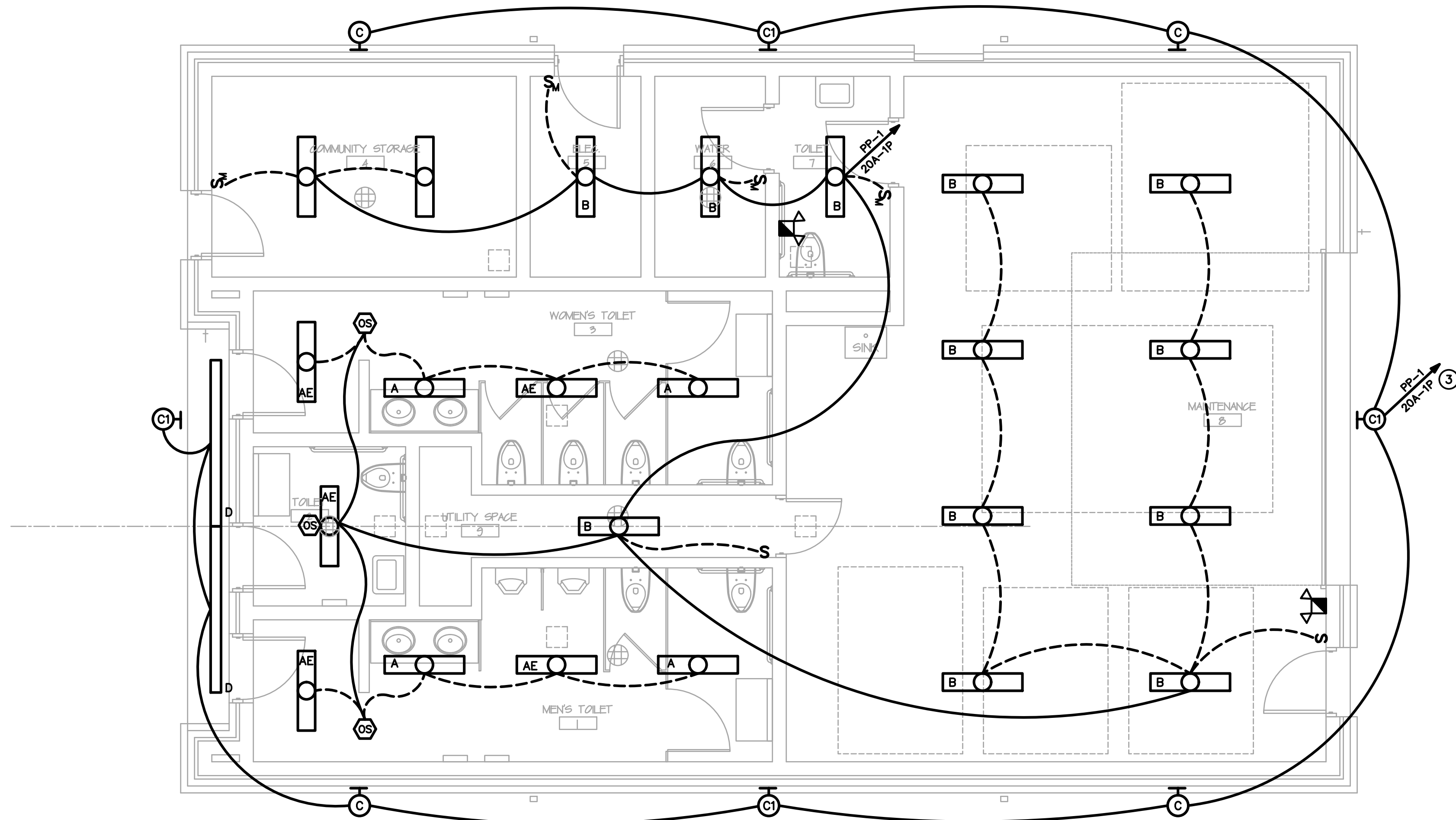
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HVAC PLAN

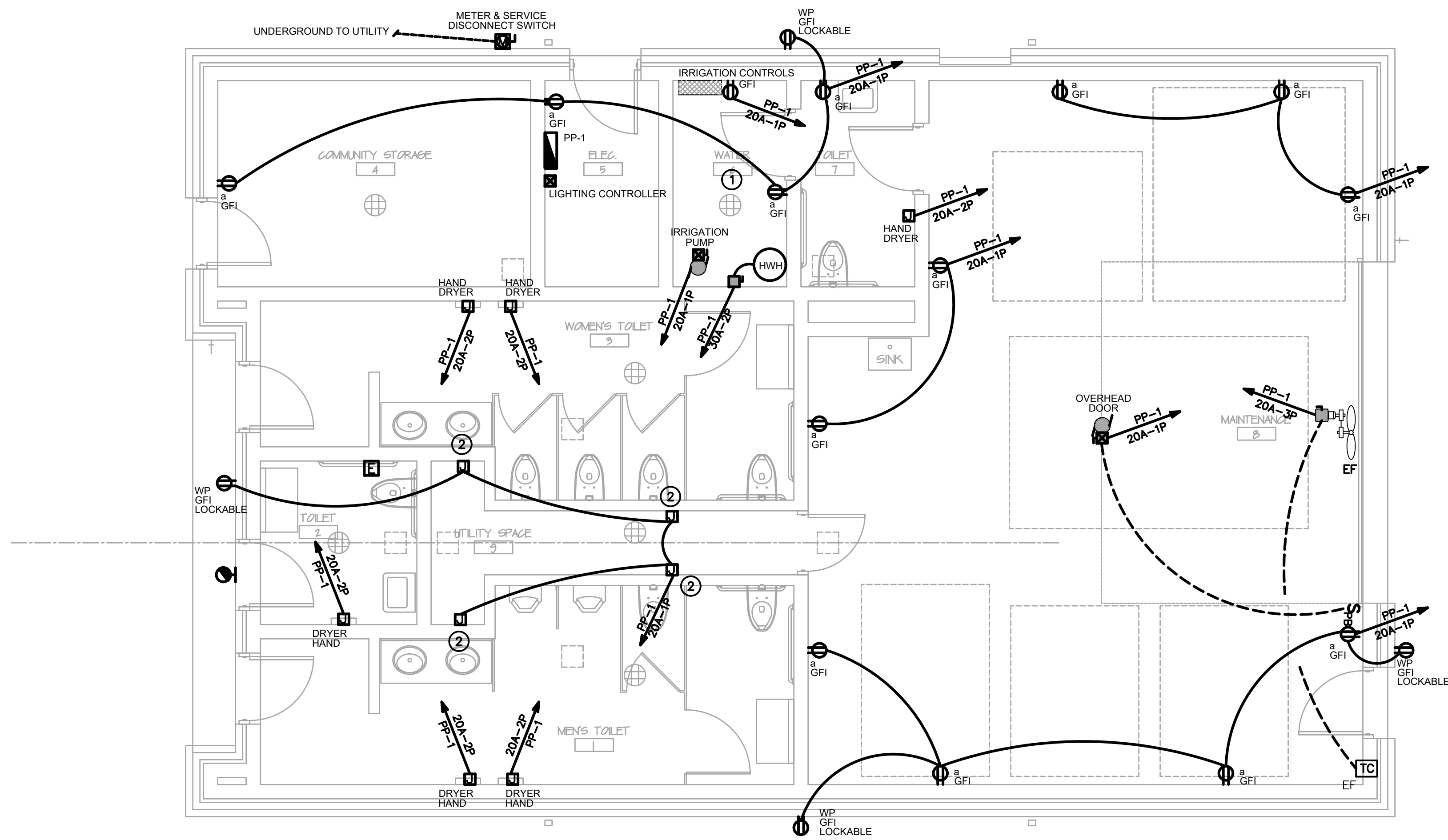
RESTROOM AND FACILITIES STORAGE BUILDING

MILL STREET
MERIDEN, CONNECTICUT

CFM DESIGNED	CFM DRAWN	KAS CHECKED
1/4"= 1' - 0"		
OCTOBER 14, 2022		
22019		
1 OF 1		
M1.0		



LIGHTING FLOOR PLAN
1/4"=1'-0"



POWER FLOOR PLAN
1/4"=1'-0"

GENERAL DRAWING NOTES:

- A. JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
- B. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.
- C. LIGHTING FIXTURES UTILIZING ELECTRONIC BALLASTS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL.
- D. CONNECT EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHES. UNITS SHALL MONITOR LOCAL LIGHTING CIRCUIT AND OPERATE UPON LOSS OF NORMAL POWER.
- E. ALL EXPOSED EXTERIOR WIRING IS WET LOCATION RATED 2#12 & 1#12 GND IN 3/4" RIGID METALLIC CONDUIT, UNLESS NOTED OTHERWISE. ALL BOXES ARE NEMA-3R METAL.
- F. EXPOSED WIRING IN DRY LOCATIONS WALL OR CEILING IS 2#12 & 1#12 GND IN 3/4"EMT. WIRING CONCEALED IN WALLS OR CEILING MAY BE TYPE MC CABLE.
- G. ALL WIRING SHALL BE RUN CONCEALED WHERE PHYSICALLY POSSIBLE. IN AREAS WITHOUT CEILINGS, EXPOSED CONDUITS SHALL BE INSTALLED NEATLY AND ROUTED PARALLEL TO OR AT RIGHT ANGLES TO BUILDING STRUCTURE/LINES.

DRAWING KEY NOTES:

- ① PROVIDE POWER CONNECTIONS FOR DOMESTIC WATER AND IRRIGATION WATER SERVICES HEAT TRACE SYSTEMS FROM 20A-1P GFI CIRCUIT BREAKERS.
- ② JUNCTION BOXES FOR POWER CONNECTIONS TO ELECTRONIC FAUCETS, FLUSH VALVES AND TRAP PRIMERS. PROVIDE ALL FINAL LINE AND LOW VOLTAGE WIRING TO DEVICES.
- ③ CIRCUIT THROUGH SITE LIGHTING CONTROLLER

ELECTRICAL PLANS

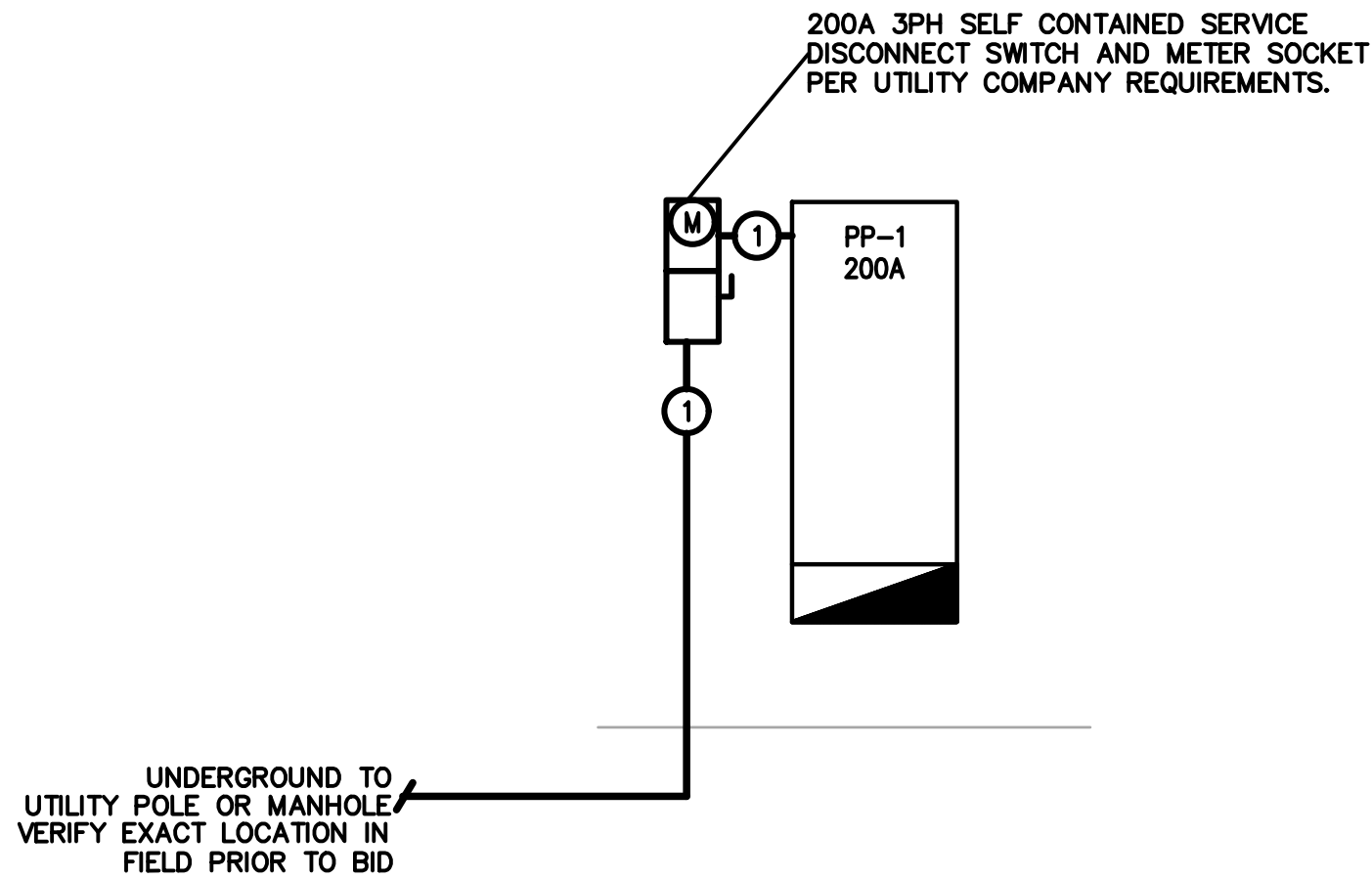
RESTROOM AND FACILITIES STORAGE BUILDING

MILL STREET
MERIDEN, CONNECTICUT

BBO	BBO	BBO
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1/4"= 1" - 0"		
SCALE		
OCTOBER 14, 2022		
DATE		
22019		
PROJECT NO.		
1 OF 2		
SHEET NO.		

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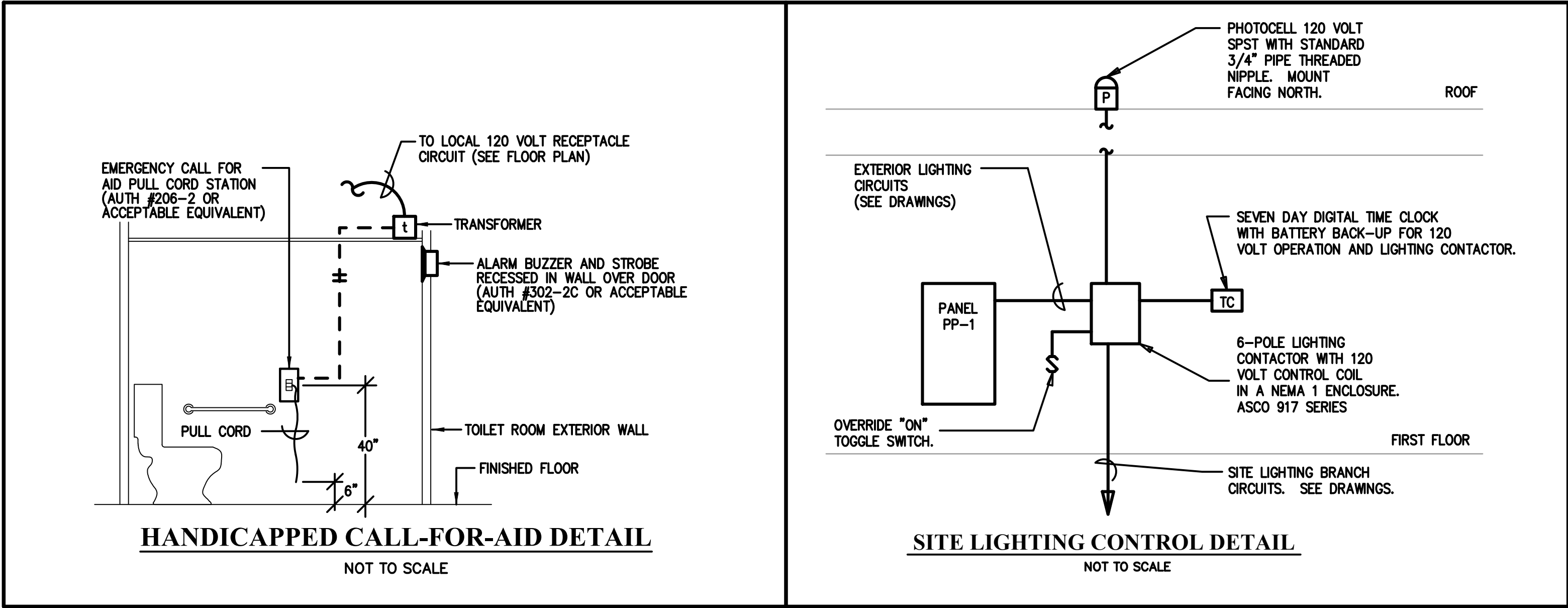
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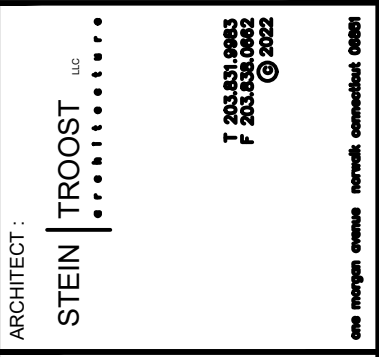
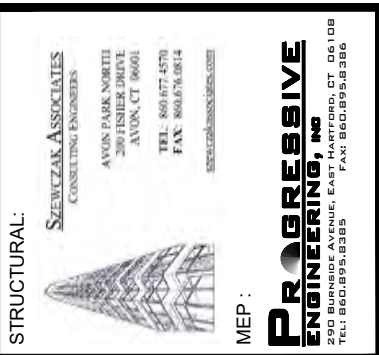
POWER RISER DIAGRAM

FEEDER SCHEDULE		
FEEDER DESIGNATION	AMPACITY	FEEDER SPECIFICATION
①	200	4#4/0 IN 4"C PLUS (1) EMPTY SPARE 4" CONDUIT
②	200	4#3/0 & 1#6 GND IN 4"C

PANEL SCHEDULE									
PANEL DESIGNATION	PANEL CONFIGURATION	MAIN DEVICE	BRANCH DEVICES			BRANCH CAPACITY	AIC	MOUNTING	COMMENTS
			AMP	POLE	QUANTITY				
PP-1	120/208V, 3ø, 4W	200A MCB	30A	2	1	42 POLES	45K	SURFACE	
			20A	3	1				
			20A	2	7				
			20A	1	23				



ELECTRICAL SYMBOL LIST	
	MOTOR OR MOTORIZED EQUIPMENT.
	HEAVY DUTY FUSED DISCONNECT SWITCH, NEMA TYPE 3R FOR WET LOCATION. PROVIDE FUSES AS REQUIRED.
	COMBINATION FUSED DISCONNECT SWITCH/MAGNETIC MOTOR STARTER.
	20A-120V DUPLEX RECEPTACLE MOUNT @ 18" AFF UNLESS NOTED OTHERWISE. SUBLETTER "d" INDICATES MOUNTING HEIGHT OF 44" AFF OR 6" ABOVE COUNTER HEIGHT SUBLETTER "GFI" INDICATES TAMPER PROOF GROUND FAULT INTERRUPTER SUBLETTER "WP" INDICATES WEATHER PROOF
	TEL, DATA AND TEL/DATA OUTLET LOCATIONS PROVIDE 4", DEEP BACKBOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING LOCATION MOUNT @ 18" AFF UNLESS NOTED OTHERWISE. SUBLETTER "w" INDICATES MOUNTING HEIGHT OF 54" AFF SUBLETTER "d" INDICATES MOUNTING HEIGHT OF 44" AFF OR 6" ABOVE COUNTER HEIGHT
	LIGHT SWITCH, MOUNT AT 42" AFF SUBLETTER "3" INDICATES 3-WAY SUBLETTER "M" INDICATES DUAL TECHNOLOGY OCCUPANCY SENSOR
	CEILING MOUNTED VANDAL RESISTANT DUAL TECHNOLOGY OCCUPANCY SENSOR HUBBELL WITH RHINO-TOUGH LENS
	120/208V PANELBOARD.
	HOMERUN, TOP NUMBER INDICATES PANEL, BOTTOM NUMBER INDICATES BREAKER SIZE. WIRE IS 2#12 & 1#12 GND IN 3/4"C UNLESS NOTED OTHERWISE.
	1X4 LED VANDAL RESISTANT SURFACE MOUNTED STRIP FIXTURE FAIL-SAFE: FUSL X 12 4 LD4 2 STD 35 UNV 93/86 EDC1 MW (AE WITH EL14W)
	1X4 LED ROUGH LOCATION SURFACE MOUNTED STRIP FIXTURE FAIL-SAFE: HVSL8 4 LD4 2 STD 35 UNV 0 EDC 1 MW
	WALL MOUNTED FULL CUTOFF IP65 AREA LIGHT FAIL-SAFE: ISC E02 LED E1 BL2 WH 8030
	WALL MOUNTED FULL CUTOFF IP65 AREA LIGHT FAIL-SAFE: ISS E02 LED E1 BL2 WH 8030
	8' LONG LED IP65 RATED SURFACE MOUNTED CANOPY FIXTURE FAIL-SAFE: FVS4 P 8 LD4 2 STD 35 UNV P187 EDC1
	LED ROUGH LOCATION EMERGENCY LIGHTING UNIT WITH REMOTE HEADS WHERE INDICATED BEGHELLI BRV-HZ-12-42-LED-MR16-7W-AT-NC
	CALL FOR AID PULL STATION AND BUZZER/STROBE



DESCRIPTION	DATE	BY

ELECTRICAL SYMBOLS		
RESTROOM AND FACILITIES STORAGE BUILDING		
MILL STREET MERIDEN, CONNECTICUT		

BBO	BBO	BBO
DESIGNED	DRAWN	CHECKED
NOT TO SCALE		
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2 OF 3		
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ELECTRICAL SPECIFICATIONS

1.1 GENERAL:

Architect's General Conditions are a part of this Division. All work shall be done in strict accordance with the latest applicable issue of the National Electrical Code, local Codes and utility company requirements. All equipment is to be UL approved. The Contractor shall bear the cost of all fees, permits, licenses and taxes. Utility company charges for the permanent electric service shall be included in the Contractor's Bid.

Submit six (6) copies of manufacturer's drawings of electrical devices to the Owner for approval. Submit information on any other equipment to be used when requested by the Owner or Engineer.

The Contractor shall provide a guarantee covering all material and workmanship for one (1) year following the date of acceptance.

The Contractor shall examine Architectural Drawings and the Drawings and Specifications of other trades to determine the extent of his work. He shall visit the site and familiarize himself with the project and local conditions before submitting his Bid as he shall be held responsible for any assumptions made thereof. The Drawings are diagrammatic and indicate the general arrangement of systems and work included in the Contract. If so directed by the Engineer, the Contractor shall, without extra charge, make reasonable modifications in the layout to prevent conflict with those of other trades and for proper installation of work. The Contractor shall coordinate locations of equipment with trades before starting construction. Any modifications to the equipment layout required for installation are to be performed at no additional cost to the Owner.

The Contractor shall arrange his work so that any power outage does not interfere with the Owner's operation.

1.2 SCOPE OF WORK:

The Contractor shall furnish and install a complete electrical system for the new facility which includes, but is not limited to: secondary service conductors from pole mount transformer to the service entrance switch; service entrance switch; all branch panelboards including circuit breakers and feeders; all light fixtures as shown on the Drawings; lighting control contactors, switches, receptacles, motor starters, disconnect switches, conduit and branch wiring; wiring of wall heaters, exhaust fans, water heaters and other heating and plumbing related equipment; emergency lighting units; fire alarm system; conduits for telephone cabling; and all other items and equipment as shown on the Drawings or herein specified.

The electrical system shall be complete in all respects, tested, approved and ready for the beneficial use of the Owner.

1.3 WORK BY OTHERS:

Cutting and patching is specified under Division 1.

Excavation and backfill is specified under Division 2.

Access doors shall be provided where required, and are specified under Division 8.

Chases, openings and finish work is specified under the pertinent Divisions 3 through 14 sections.

Delivery of wiring diagrams for Division 15 equipment is specified under Division 15. Electrical wall heaters, ceiling exhaust fan, and water heaters shall be furnished and installed under Division 15, and wired under Division 16.

All automatic temperature control panels, thermostats, aquastats zone valves, etc., for the mechanical systems are work of Division 15. All control and power wiring and required final connections to control devices is also work of Division 15, unless otherwise noted on the Drawings.

1.4 FIELD MEASUREMENTS:

The Contractor shall verify in the field all measurements necessary for his work. Conduits, switches, receptacles, panels and light fixtures which have not already been installed may be relocated up to ten (10') feet from locations shown on the Drawing when so directed by the Engineer, at no cost to the Owner. Verify all interior lighting fixture locations and mounting heights with the Architect before installation.

1.5 WIRING METHODS:

Metallic Tubing (EMT) shall be used for feeders run above ground, all exposed branch circuit wiring, telephone wiring and security or fire alarm system wiring. EMT shall be used for all circuit homeruns.

Rigid galvanized steel conduit shall be used for all buried wiring and wiring in hazardous locations.

Polyvinyl chloride (PVC) conduit may be used for underground power and telephone utility service wiring except as specifically otherwise noted on the Drawings. All elbows shall be rigid galvanized steel conduit.

Type MC Metal-Clad cable may be used for concealed branch wiring only to light fixtures, receptacles and switches. The MC cable shall be constructed of galvanized steel armor outer covering with a supplemental cable tape, integral marker tape, Type THHN/THWN insulated conductors and internal copper equipment ground conductor. All cables shall be rigidly supported from the building structure at least four (4') foot on center and run in lines parallel or perpendicular to building structural members. No cable shall rest on the ceiling structure. Type MC cable shall be as manufactured by AIC or acceptable equivalent. Type AC armored cable shall not be permitted on the job.

Flexible Metallic Conduit (FMC) or liquidtight flexible metallic conduit (LFMC) shall be used for connections to vibrating equipment.

All wiring shall be run concealed where possible.

Wire #10 and smaller shall be solid conductor with THW, THWN or THHN insulation as required. Size #8 and larger shall be stranded conductor with Type THW insulation, unless otherwise indicated. Minimum size wire for light and power circuits shall be #12. All conductors shall be soft-annealed copper. The Contractor shall include a green ground conductor for all circuits; the use of the conduit system or cable covering as the sole means of grounding will not be permitted.

All conduits and wiring shall be run inside walls where possible. All exposed conduits shall be run neatly in lines parallel or perpendicular to building walls. All splices shall be made with Scotchlok spring connectors or acceptable equivalent. Entire wiring system shall be grounded as mentioned above. Connections to lighting fixtures and mechanical equipment shall be in flexible metallic tubing.

1.6 PANELBOARDS:

All panelboards shall be 208/120 Volt, 3-Phase, 4-Wire Square D Type "NQ0B" or I-Line series panelboards or acceptable equivalent by General Electric or Westinghouse. Panelboards shall be furnished with main lugs or main circuit breaker, and bolt-on type branch breakers as noted on the panelboard schedule, catch locks, ground bus, circuit index card holder and hinged door-in-door cover. Panelboard short circuit rating shall be noted on the Drawings.

1.7 DISCONNECT SWITCHES:

An unfused disconnect switch shall be furnished and installed for all equipment. A fused disconnect switch shall be furnished and installed for equipment located ahead of all magnetic motor starters.

Safety switches shall be heavy-duty Type in NEMA enclosures suitable for the environment in which they shall be installed. Switches shall be rated for 600 VAC as manufactured by General Electric, Square D or Westinghouse and equivalent to the following General Electric types:

Fused disconnect 2- and 3-pole - Type TH
Non-fused disconnect switches - Type THN
Fused or non-fused, rain-tight (WP) disconnect switches in NEMA 3R enclosures - Type TH and/or Type THN

Motors requiring disconnecting means remote from the Controller shall have a unfused mounted switch as close as possible to the motor.

1.8 FUSES:

All fuses shall be UL listed, non-renewable type as manufactured by Bussman or acceptable equivalent. Fuses rated at 1/10 Ampere and up to 600 Amperes shall be equivalent to Bussman Type LPN-RK (250 Volt) UL Class RK1, low peak, dual-element, time delay fuses. Fuses shall have separate short circuit and overload elements and have an interrupting rating of 200,000 Amperes.

All fuses shall be installed so that the size is readily visible.

The Contractor shall furnish to the Owner six (6) spare fuses for each size of fuse.

1.9 POWER, MOTOR AND EQUIPMENT WRING:

The Contractor shall furnish and install all wiring for all motors and equipment which will be furnished and set in place by work of other sections on this project.

Conduit connections to motor frames shall have minimum of 18 inches of flexible steel sealrite conduit to reduce vibrations and noise being transferred to other parts of the buildings.

1.10 SWITCHES, RECEPTACLES AND ACCESSORIES:

Wall switches shall be mounted 48 inches to the top above finished floor, opposite hinged side of door, unless otherwise indicated. Where there is more than one (1) switch in one (1) location, switches shall be ganged under one (1) cover. Duplex receptacles shall be mounted 18" AFF unless otherwise indicated. All wall switches and receptacles shall be flush-mounted, where applicable, and furnished with stainless steel cover plates or other type plate as requested by Owner.

Outlet and switch boxes shall be zinc-coated steel. Use plaster covers for boxes installed in sheet rock walls. Use box extensions as necessary.

Switches and receptacles shall be as manufactured by Arrow Hart, Leviton, Pass and Seymour or Hubbell and equivalent to the following Specification grades:
Single-pole switches shall be Hubbell #1221
2-pole switches shall be Hubbell #1222
3-way switches shall be Hubbell #1223
Duplex grounding type receptacles shall be 20 Ampere Hubbell #5362
Isolated ground type receptacles shall be 20 Ampere Hubbell #G5362.
Weatherproof outlet shall be Hubbell #GF-5362, mounted in a Crouse-Hinds "FS" backbox complete with "WLRD" coverplate or acceptable equivalent.
Ground fault type receptacles shall be Hubbell #GF-5362 feed-through receptacles.

1.11 WALL PLATES:

All wall plates for switches and receptacles located where wiring is concealed shall have a stainless steel finish and be equivalent to Mulberry Metal #97000 Series. Plates installed on exposed conduit boxes shall be galvanized and have rounded edges. Ganged switches shall be provided with one-piece gang plates.

1.12 OUTLET AND JUNCTION BOXES:

Outlet boxes for light fixtures in concrete walls or slabs shall be 4-inch octagonal mud boxes not less than 2-1/2-inches deep. Include fixture studs where required.

Switch and receptacle outlet boxes in masonry walls and partitions where wiring is concealed shall be standard 4-inches square, 1-1/2 inches-deep, galvanized, with extension cover for the particular device they will receive. Use plaster extensions not less than 1/2-inch deep for boxes installed in plastered walls or cast in concrete. Use 1-1/2-inch deep square corner tile wall extension for boxes installed in tile, exposed brick or exposed block masonry walls.

All boxes shall be securely fastened to the building structure. Suitable means shall be provided to support the outlet box to take the weight of the fixture. Recessed outlet boxes or their extension covers shall be set flush with face of finished wall, but in no case set greater than 1/4 inch behind finished face of wall. Receptacle boxes shall be approximately 18 inches on center above the finished floor, unless otherwise noted. Switch outlets shall be located 48 inches above finished floor, unless otherwise noted. The Contractor shall check with the Architectural Drawings for possible interference.

Junction and outlet boxes where exposed to the weather and wet locations shall be threaded hub type and provided with watertight screw-on covers and gaskets. Floor outlets shall be adjustable type and waterproof where required.

1.13 LIGHTING FIXTURES:

The Contractor shall furnish and install all lighting equipment as shown and specified complete with lamps ready for operation.

Provide all required supports, hangers and seismic bracing for fixtures, including recessed troffers.

All lamps shall be as manufactured by General Electric or Sylvania. All lamps for new and existing relocated fixtures shall be new and be furnished and installed by the Contractor.

All ballasts for fluorescent fixtures shall be high power factor, CBM/ETL certified with an "A" sound rating, where possible. All ballasts shall be electronic Advance Mark V energy saving type or acceptable equivalent by General Electric or Universal, unless otherwise specified in the Lighting Fixture Schedule.

Existing fixtures in the space shall be reused as noted on the Drawings. The fixtures shall be disconnected, removed and stored by the Contractor and then be cleaned prior to reinstalling the fixtures. The Contractor shall document, in writing, any damage noted on the fixtures prior to removing them and submit a copy to the General Contractor and Engineer. The Contractor shall be held responsible for any subsequent damage.

1.14 FIRE-STOPS AND SEALS:

All penetrations through fire rated walls, ceilings or floors in which cables or conduits pass shall be sealed with a UL approved fire-stop fitting classified for an hourly rating equivalent to the rating of the wall, ceiling or floor.

Through wall and floor seals shall be used to provide a positive means of sealing pipes or conduits which pass through concrete foundation of a structure below grade or below ground water level.

All openings shall be sealed as required by the NEC.

1.15 TELEPHONE/DATA SYSTEM:

The Contractor shall furnish and install all preparation work for the telephone system, including service entrance conduit with pull wire, I-boxes, plaster rings and 1" conduits stubbed up to above finished hung ceiling with pull wires and modular wall jacks. The installation of telephone cables and equipment shall be by the Owner and/or the telephone vendor.

1.16 WARNING TAPE:

Color-coded warning ribbon composed of a solid, aluminum foil core encased in a protective plastic jacket shall be placed above all buried electrical and communication lines. All tapes shall be highly visible, color-coded and imprinted with the appropriate warning legend. The tape width shall vary from a two (2") inch wide tape buried ten (10") inches below the surface to an 18-inch wide tape buried 50 inches below the surface.

Standard legends shall be marked continuously along the entire length of the tape. A red safety tape imprinted with "CAUTION - ELECTRIC LINE BURIED BELOW" shall be used for all buried primary and secondary electric services. Orange safety tapes shall be imprinted with "CAUTION - TELEPHONE LINE BURIED BELOW" or "CAUTION - TELEVISION CABLE BURIED BELOW".

Warning tapes shall be as manufactured by Allen Systems, Houston, Texas or acceptable equivalent.

1.17 SECONDARY SERVICE:

The secondary service conductors shall be run underground from the pole to the main panelboard in either RGS/PVC conduits. All conduits shall be buried to a minimum depth of three (3') feet or as required by the Utility Company.

1.18 SYSTEMS OPERATIONAL MANUALS:

Upon completion of the work and at a time designated by the Engineer, the Contractor shall furnish instruction manuals, data, warranties, etc., and instruct the Owner or his representative as to the arrangement, location and operation of all equipment and systems furnished and installed under the Contract.

Contractor shall provide as-built documents to the Owner at the completion of the project.

1.19 LOAD BALANCE:

The Contractor shall balance the loads on the three phases in the electrical panelboards insofar as physically possible, and report each panel loading to the Engineer.

1.20 SHOP DRAWINGS:

The following list of electrical items must be submitted by this Contractor for approval:
Service entrance equipment
Electrical distribution panelboards and circuit breakers
Conduit and wire with fittings and connectors
Safety switches
Light switches, receptacles and plates (submit samples as requested)
Contactors and relays
All lighting fixtures (submit samples as requested)
Exit signs (submit samples as requested)
Emergency lighting fixtures
Fuses
Motor starters and disconnects
All ballasts
Fire alarm systems

1.25 GENERAL WIRING TESTS:

At the time of final inspection and test, all wiring and connections throughout the expansion areas must be completed, devices and equipment properly operating, all lighting fixtures installed, and power and lighting circuit and control wiring clearly identified with approved tags ready for acceptance. Each system shall test free from short circuits and from grounds.

Insulation resistance for low voltage cables and wiring shall be performed at 1000 Volt D.C. for one-half (1/2) minute. When insulation resistance must be determined, all switchboards, panelboards, fuse holders, switches, and overcurrent devices shall be in place, and the insulation resistance when tested at 500 Volts D.C. shall be no less than 100,000 ohms for #14 and #12 wire and 250,000 ohms for #10 wire and larger.

ELECTRICAL SPECIFICATIONS

RESTROOM AND FACILITIES STORAGE BUILDING

MILL STREET
MERIDEN, CONNECTICUT

BBO	BBO	BBO
DESIGNED	DRAWN	CHECKED

NOT TO SCALE

OCTOBER 14, 2022

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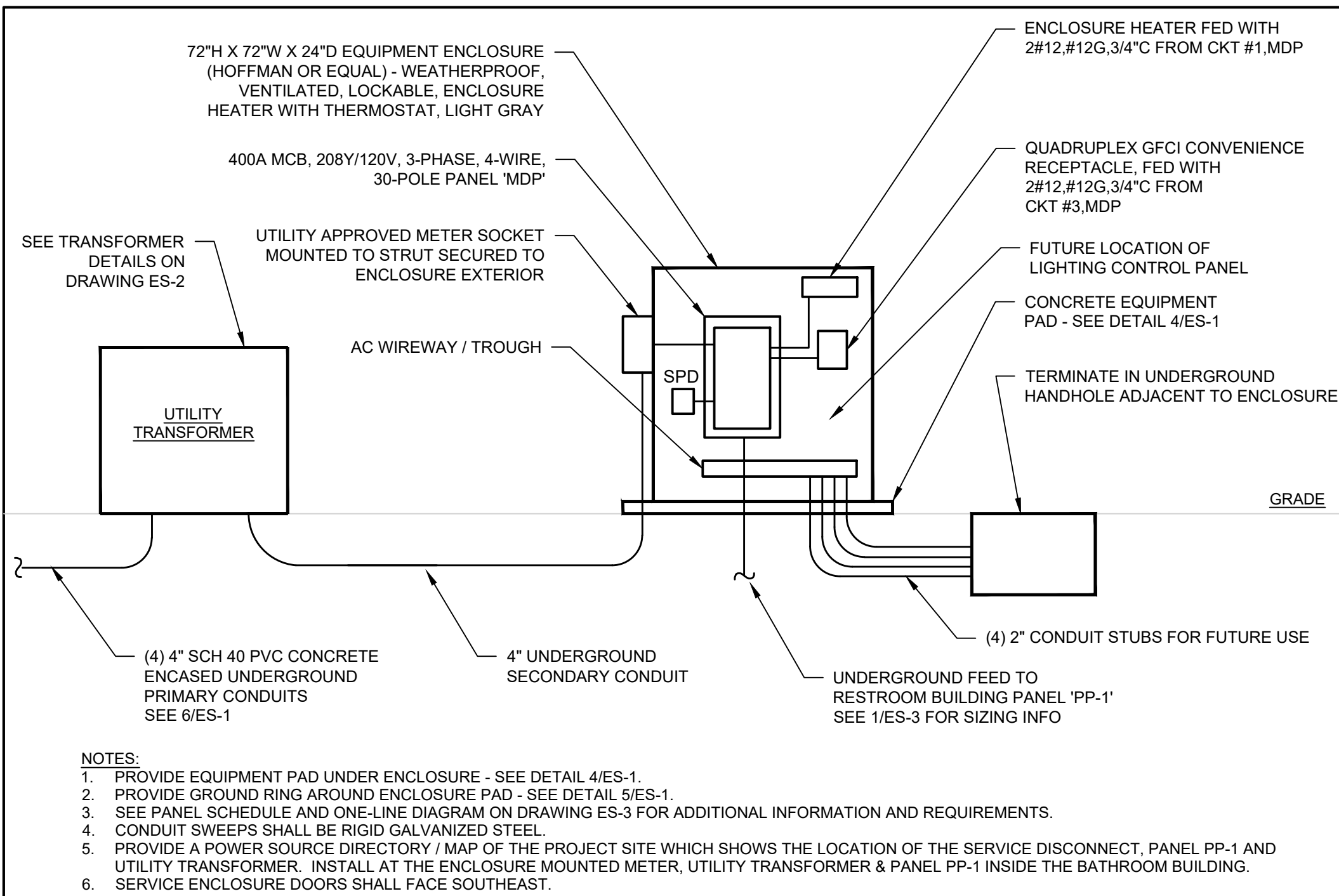
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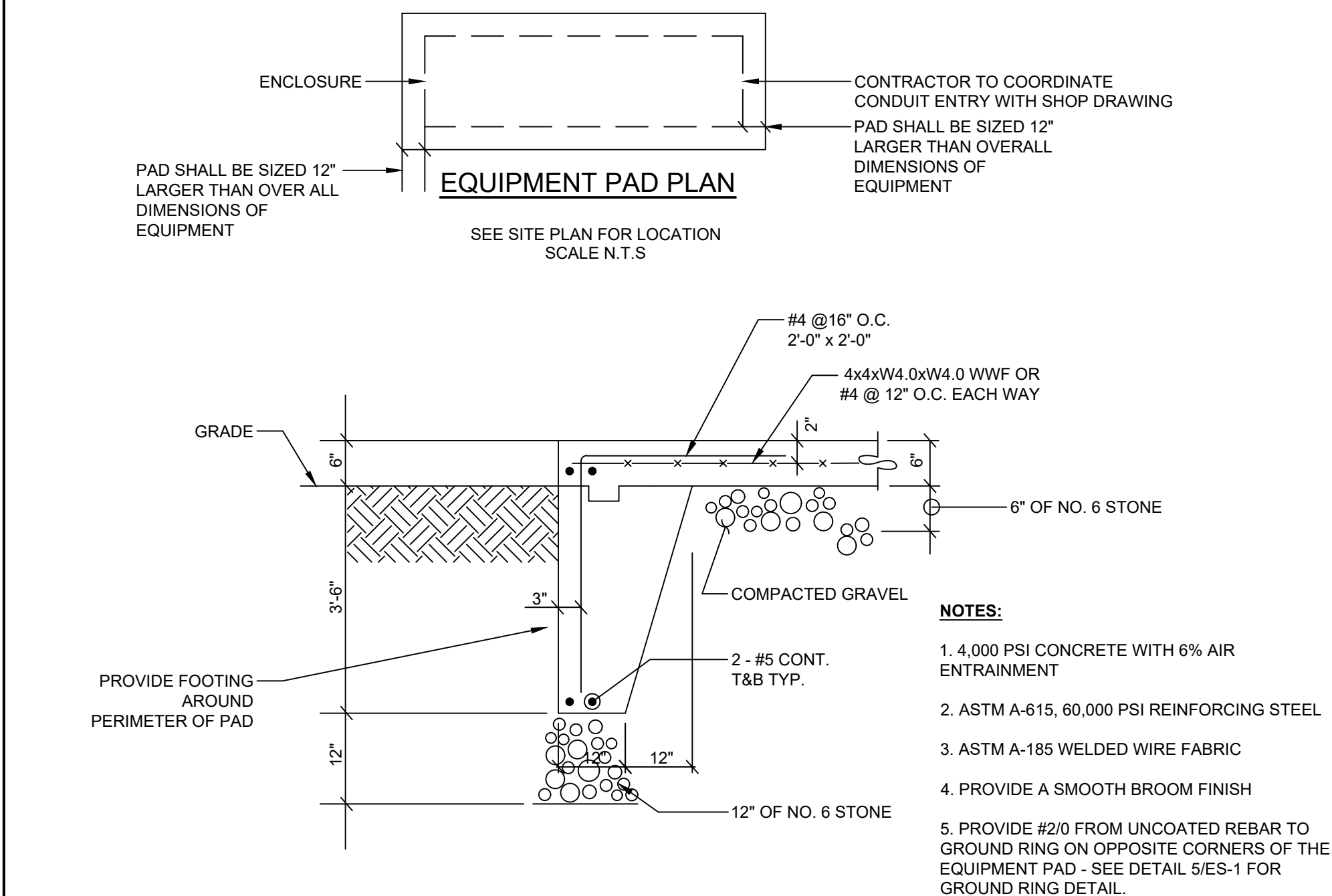
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DESCRIPTION	DATE	BY							

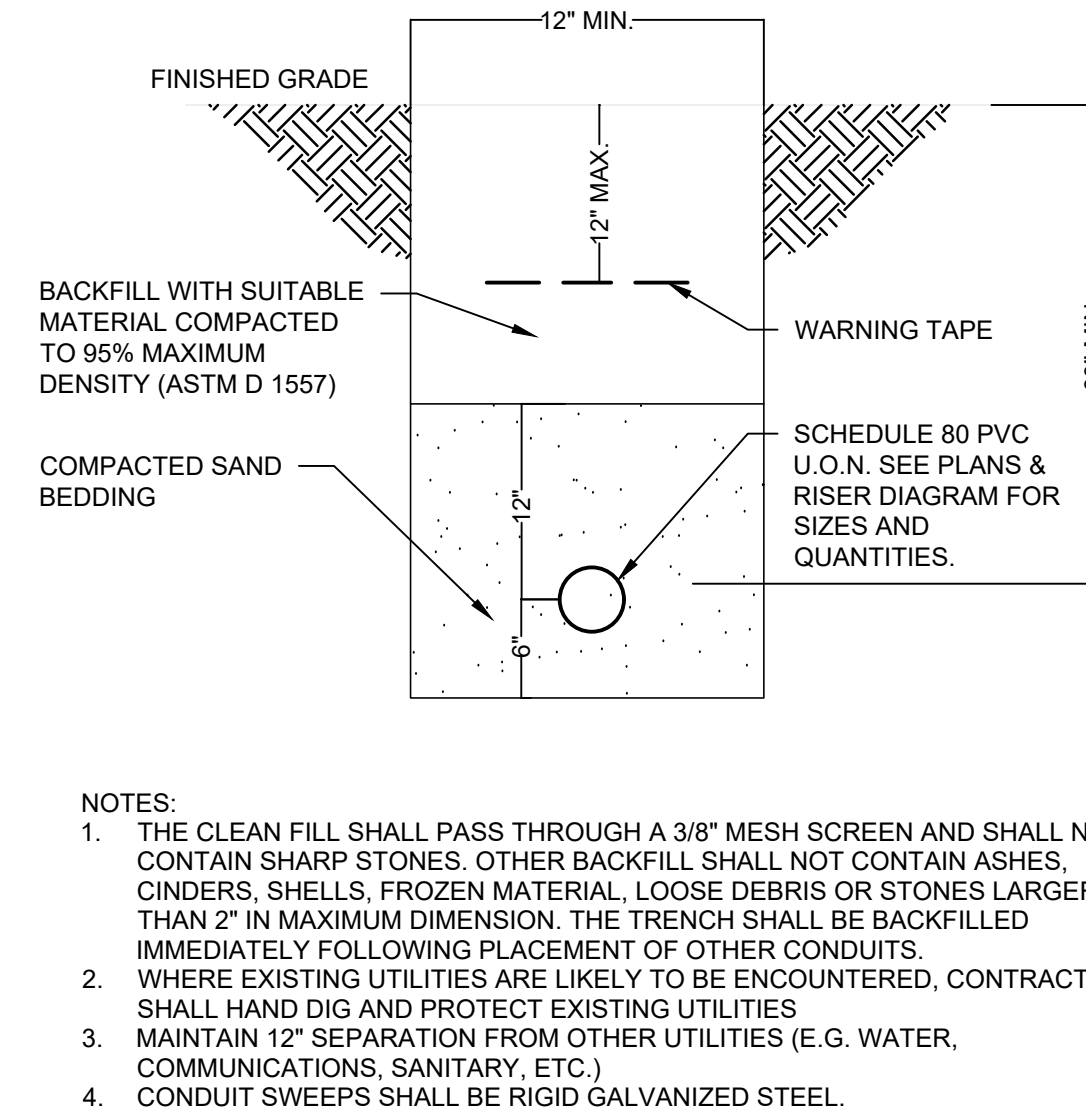




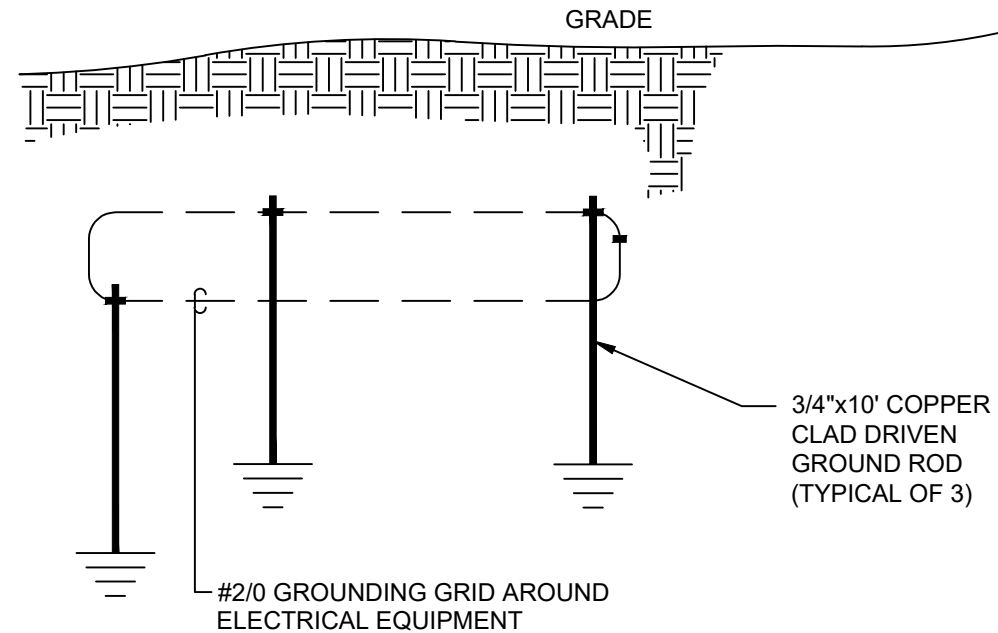
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ES-1 EQUIPMENT ENCLOSURE DETAIL
NTS



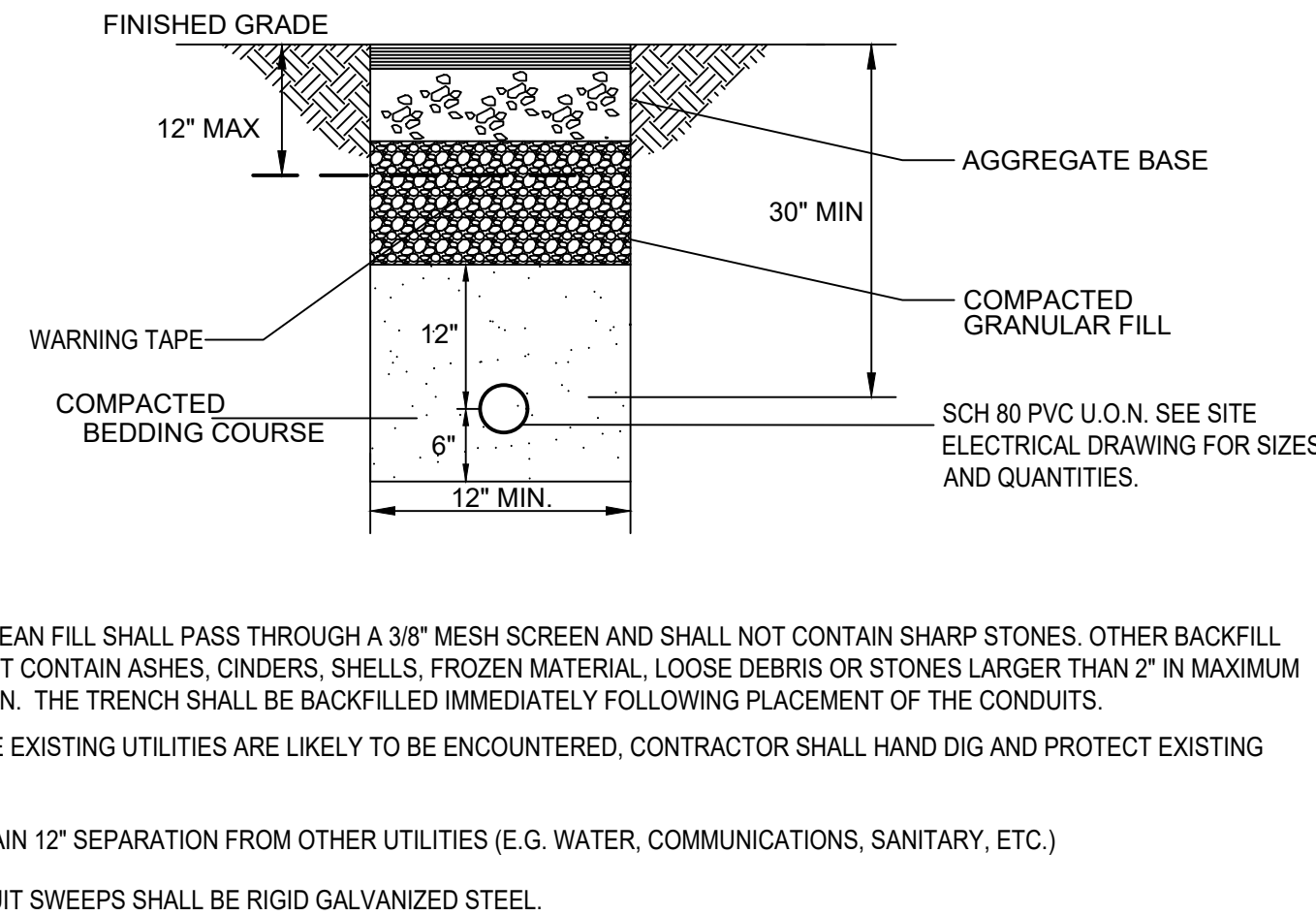
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ES-1 EQUIPMENT PAD DETAIL
NTS



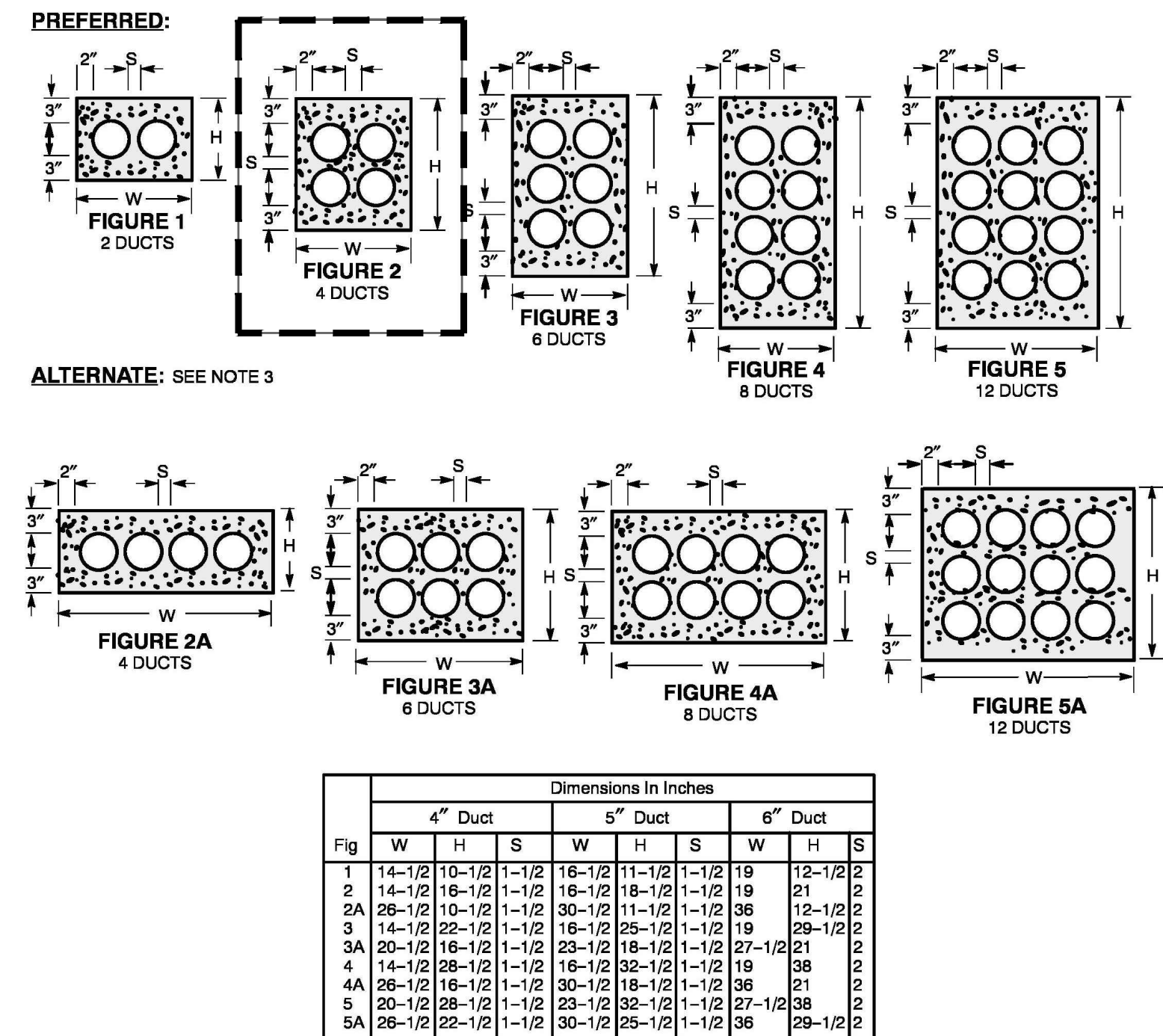
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ES-1 CONDUIT INSTALLATION IN GRASS
(NOT APPLICABLE TO U.I. CONDUIT)
NTS



5
ES-1 SERVICE GROUND RING DETAIL
NTS



3
ES-1 CONDUIT INSTALLATION IN BITUMINOUS
(NOT APPLICABLE TO U.I. CONDUIT)
NTS



Notes
1. At manholes conduit banks shall be per Figures 1, 2, 3, 4, or 5.
2. Minimum cover from top of a conduit bank to the pavement or earth surface shall be:
a. State highways - 36 inches
b. Railroad tracks - 60 inches
c. All other areas - 24 inches
3. In the conduit run between manholes if obstructions are encountered or to reduce trench depth, Figures 2A, 3A, 4A, or 5A are permissible.
4. Concrete shall be 2500 psi, 1/2 inch maximum stone, 6-9 inches slump of such consistency that spading will ensure the flow of concrete between and under the individual ducts, but not so wet as to float the ducts. For tier buildup construction a stiffer consistency should be used.

CONDUIT BANK CONSTRUCTION				
ORIGINAL 5/29/75				
APPROVED 11/2/99				
EVERSOURCE ENERGY	DESIGN & APPLICATION STANDARD	DTR 73.209	5	

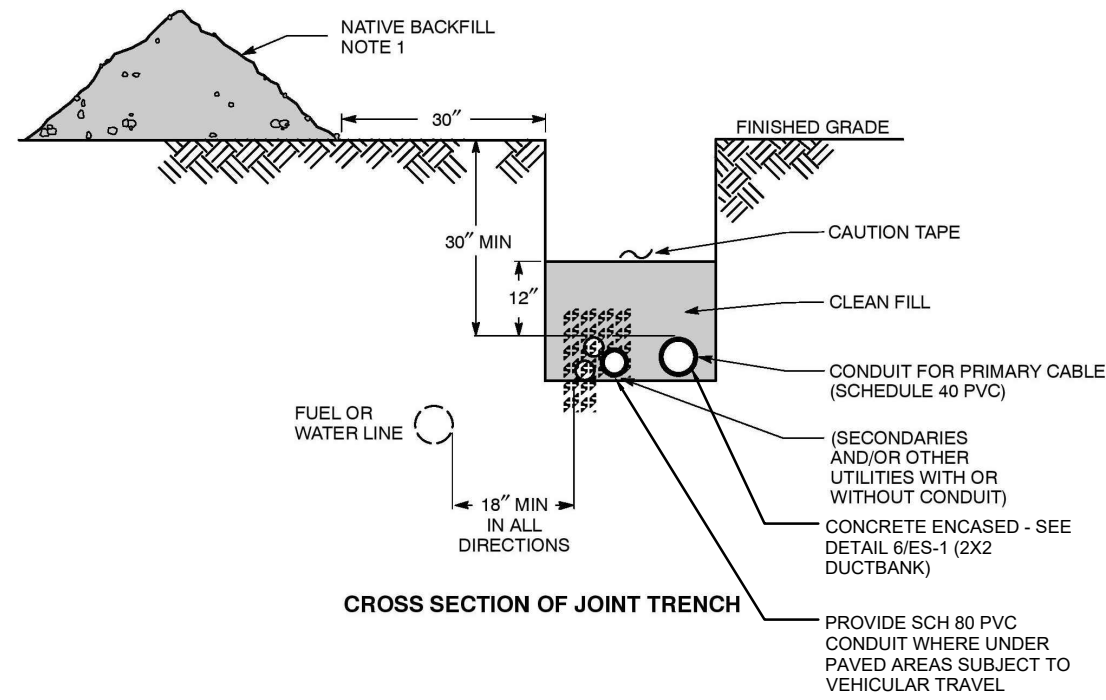
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ES-1 TRANSFORMER PRIMARY CONDUIT DUCTBANK DETAIL
NTS

DESCRIPTION	DATE	BY
BID DOCUMENTS	10/14/22	SGG

SCOPE – All direct-buried primary cables shall be of the jacketed type. The cables may be random-laid with the secondaries and other utilities under certain conditions, detailed in **DTR 44.101**.

INSTALLATION IN TRENCH – All direct-buried cables shall be installed at a depth of at least 30 inches in the following order:

1. Ensure that the bottom of the trench is well-tamped and free of rocks.
2. Install the conduit, gluing all couplings.
3. Install secondaries and other utility cables or conduits in the trench.
4. Backfill with twelve inches clean fill not to contain stones larger than two inches in maximum diameter.
5. Install cable warning tape twelve inches over the conduit.
6. Fill in the remainder of the trench with native backfill.
7. Install pull line, including ten feet of slack, and secure to conduit plug at each end of conduit run.

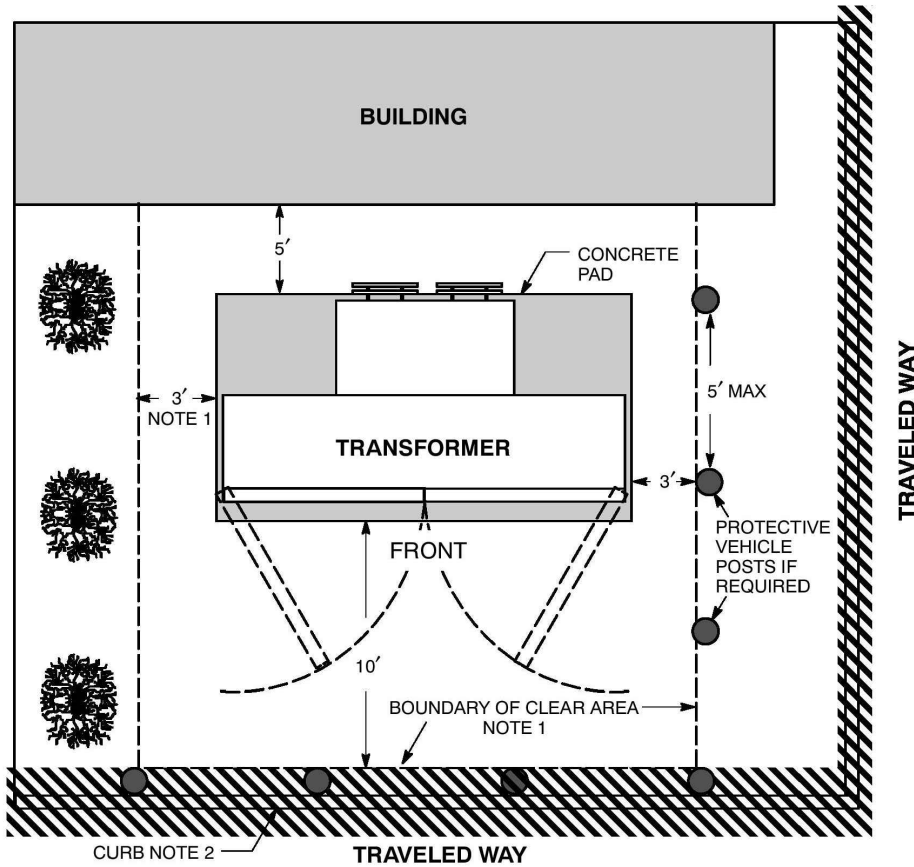


- Notes**
1. The trench shall be backfilled immediately following placement of the conduit.
 2. One quarter inch diameter nylon pull line and plastic conduit plugs to be supplied and installed by contractor.
 3. The internal surface of the conduit shall be free of sharp edges or burrs, which could damage the cable.

ORIGINAL DESIGN APPROVED DATE 10/14/22	SINGLE-PHASE PRIMARY CABLE INSTALLATION DIRECT-BURIED – IN CONDUIT		CT/MA
NORTHEAST UTILITIES	CONSTRUCTION STANDARD	DTR 50.103	6

1 EVERSOURCE CONDUIT REQUIREMENTS

ES-2 NOT TO SCALE



Notes

1. To inspect, provide access, operate elbow connectors and ventilate the transformer, the above specified clear area distances to buildings or shrubs shall be maintained. The distance from the building to the concrete transformer pad. Property line shall be considered an obstruction, since fences, shrubs, etc. may be installed at a future date by adjacent property owners. Because of the possibility of cooling fins overhanging the pad, side clearances to be increased to 5 feet for transformers 1000 kVA and larger.
2. If no curb exists, or transformer is located closer than 10 feet to the traveled way, protective vehicle posts (●) shall be installed as specified in **DTR 42.061**.
3. Top of transformer pad shall be installed 3 inches above final grade.
4. Transformer shall not be located on steep grades where access to or elbow operation is made difficult.
5. Transformer shall meet the minimum distances to doors, windows, fire escapes, air intakes and walls as specified in **DTR 42.061**.
6. Transformer is not to be located with its doors facing the building.
7. Refer to **DTR 58.301** for specific instructions on the installation of the transformer pad.
8. Refer to **DSEI Section 06.32** and **DTR 58.311** (NH) for information on environmental considerations.

ORIGINAL DESIGN APPROVED DATE 10/14/22	PAD-MOUNTED TRANSFORMERS LOCATION TO BUILDINGS AND ROADWAYS		
NORTHEAST UTILITIES	CONSTRUCTION STANDARD	DTR 42.047	7

2 EVERSOURCE TRANSFORMER REQUIREMENTS

ES-2 NOT TO SCALE

GENERAL – Pad-mounted oil insulated equipment (such as transformers, transclosures, switches, etc) should be installed so as to be accessible, not constitute an environmental hazard or a fire hazard, and be protected from damage. In URF areas transformers installed at residential front lot lines are not subject to the requirements of this Standard, refer to **DTR 42.031**.

LOCATION – The pad-mounted equipment should be installed at a location where permanent access will be assured for future operation and maintenance as well as to permit installation, replacement and removal of the equipment by means of a winch truck with the boom up. Where noise may be a problem, careful consideration should be given when selecting a location. Areas subject to flooding should be avoided, as should other environmentally sensitive areas noted in **DSEI Section 06.32**. The building owner's and/or tenant's fire insurance carrier may restrict the proximity of the equipment to doors, windows or combustible materials and such requirements are the responsibility of the customer subject to the requirements of Northeast Utilities. In the absence of other requirements, the equipment shall be located with the following minimum clearances from various building facilities. The distances mentioned in this section shall not supersede any local ordinance or code which requires greater clearances.

Item	Minimum Distance		
	In Front of In Feet	To Side of In Feet	Below In Feet
Door	20	10	
Air Intake	10	10	25
Window	10	3	5
Fire escape	20	20	
Combustible wall	6	6	
Noncombustible wall	5	3	
Fuel tanks (above and below grade)	10	10	
Natural gas or propane connections			
CT/MA	3	3	
NH	15	15	
Gasoline dispensing unit	20	20	

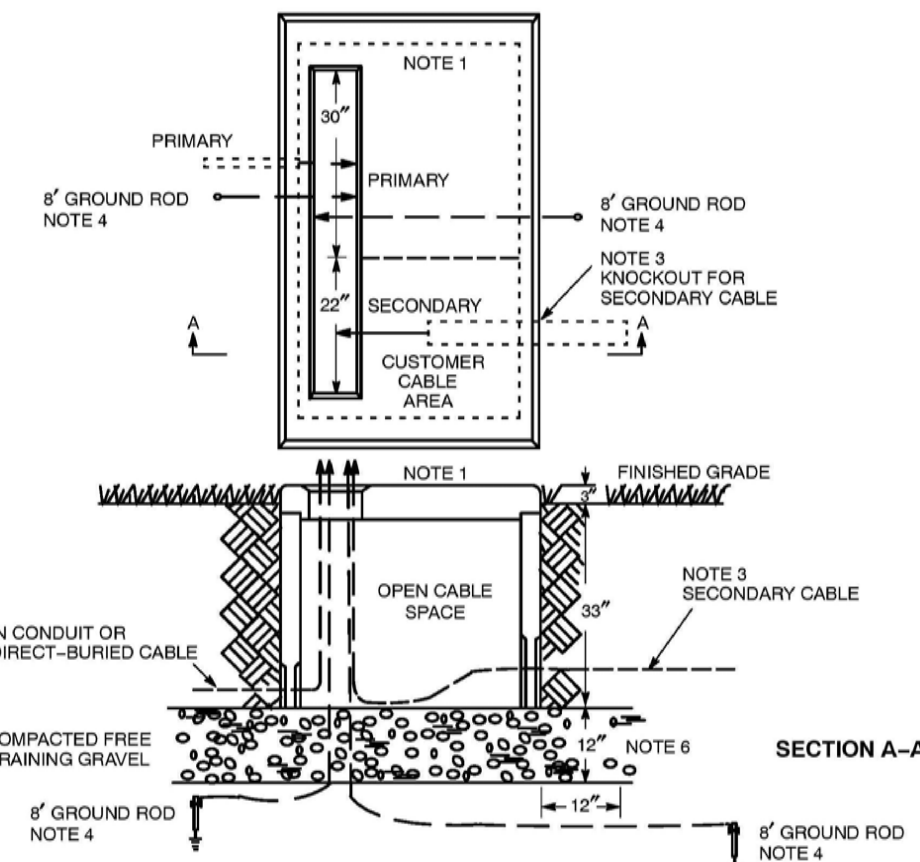
OIL SUMP – If the surrounding grade pitches toward critical areas, it is recommended that an oil sump be provided. This should consist of 3/4-inch trap rock fill under and around the equipment pad adequate to contain the quantity of oil in the equipment to be installed at the given location.

ADDITIONAL FIRE PROTECTION – If the building owner's and/or tenant's combustible facilities adjacent to the equipment require fire protection beyond that provided by oil sump, it shall be their responsibility to provide such protection in the form of space separation, fire resistant barriers, automatic spray systems, other oil containment facilities, or other means approved by their fire insurance company.

EQUIPMENT PROTECTION – Where pad-mounted equipment would be exposed to possible damage by vehicular traffic, protective bumpers are to be installed on exposed sides. Galvanized steel pipes 4-inch minimum diameter filled with concrete, 1-beams 5-inch minimum, or other suitable means of protection may be used as bumpers. Such pipes or l-beams shall extend 42-inch minimum both above and below grade. Heavier bumpers set deeper should be considered where exposed to heavy trucks. Bumpers should be 10-foot minimum from the operating side of concrete pad and on the other sides 36-inch minimum from equipment or pad, whichever projects farther. The maximum spacing between bumpers on exposed sides should be 60 inches.

EQUIPMENT LOCKS – Any equipment, with provisions for locking, that is left on site and is accessible to the general public, shall be padlocked. This includes installations that are not complete and not energized. Completed pad-mount transformer installations shall meet "TAMPERPROOF EQUIPMENT LOCK" requirements, **DTR 03.401**.

ORIGINAL DESIGN APPROVED DATE 10/14/22	PAD-MOUNTED OIL INSULATED EQUIPMENT LOCATION AND MECHANICAL PROTECTION		
NORTHEAST UTILITIES	DESIGN & APPLICATION STANDARD	DTR 42.061	9



- Notes**
1. 75 – 300 kVA – Install 75" x 54" x 36" pad as per **SPC P-013** and **P-014**.
 2. 500 – 5500 kVA – Install 75" x 70" x 36" pad as per **SPC P-013** and **P-016**.

3. **Primary Cable**
 - a. Install direct-buried cables a minimum of 30 inches below grade.
 - b. Install cables in conduit a minimum of 24 inches below grade.
 - c. Loop cables in cable pit before making connections.
4. **Secondary Cable** – Leave enough cable to extend 6 feet above pad for future reconnecting to transformers with higher secondary terminals. Customer cable(s) shall enter through the rear knockout and shall be confined to the area defined as the "customer cable area".
5. **Galvanized Steel Ground Rods** – Install in trench and connect #2 copper conductors from rods through pad opening and extending 5 feet above pad. Minimum separation of ground rods is 8 feet.
6. The following DTR/DESI's should also be used:
 - a. **DTR 17.083** – **THREE-PHASE TRANSFORMER CONNECTIONS**
 - b. **DTR 33.217** – **600-VOLT CONNECTOR GUIDE - FOR NEMA PADS - THREE-PHASE PAD-MOUNT TRANSFORMERS**
 - c. **DTR 42.061** – **LOCATION AND MECHANICAL PROTECTION REQUIREMENTS**
 - d. **DTR 44.221** – **FAULT INDICATOR GUIDE – SOLID DIELECTRIC CABLES**
 - e. **DTR 56.505** – **PRIMARY - SECONDARY AND TRANSFORMER GROUNDING**
 - f. **DSEI Section 14.21** – **LOADING LIMITS - THREE-PHASE TRANSFORMERS**
 - g. **DSEI Section 07.30** – **CONVENTIONAL UG LOOPS**
 - h. **DTR 56.221** – **JACKETED PRIMARY CABLE - GROUNDING**
7. The excavation for the pad shall be carried to a depth of 12 inches below the bottom of the pad. The bottom layer of backfill shall be compacted, clean gravel, free of foreign matter and construction debris, extending 12 inches beyond the circumference of the structure, and in accordance with Connecticut DOT Spec M.02.06 Grading "A"; or Massachusetts DPW Spec M1.03.0 Type B. The remaining backfill shall not contain ashes, cinders, shells, frozen material, loose debris, or stones larger than 2 inches in maximum dimension. It shall be placed in 6-inch layers and compacted with mechanical tampers to not less than 95 percent of the maximum dry density as determined by the standard compaction tests, AASHTO T180 or ASTM D698.

ORIGINAL DESIGN APPROVED DATE 10/14/22	INSTALLATION OF CONCRETE PAD FOR THREE-PHASE PAD-MOUNTED TRANSFORMERS 75-2500 KVA – DIRECT-BURIED		
EVERSOURCE ENERGY	CONSTRUCTION STANDARD	DTR 58.301	8

SERVICE TRENCH – By Customer

The trench shall be in as direct a line as possible without reverse bends from the distribution facility to the customer service entrance. In order to minimize cable pulling forces, no more than two bends (not including riser at house or pole) exceeding a total combined change of 45 degrees shall be permitted.

1. Trench shall be of such depth to accommodate 24 inches minimum cover for service cables in conduit.
2. In order to prevent the conduit from being pulled out of the meter box, conduit shall be installed on virgin or well tamped soil. Trench bottom shall be undisturbed or relatively smooth earth, well tamped, and free of any debris that may be detrimental to the conduit.
3. Conduit in the trench should have a 4-inch-per-100 feet downward pitch toward the distribution facility, if physically possible. (This provides drainage away from the service entrance, and prevents stagnant water in the duct.)
4. Backfill shall not contain frozen material or stones larger than 2 inches in maximum dimension. Care shall be exercised to avoid damage to conduit during backfilling. Backfill shall be compacted, and shall be completed before the Company schedules cable installation.
5. When required, coordination with telephone, cable TV, or other utilities is the Customer's responsibility.

CONDUIT – By Customer

Standard conduit shall be minimum 3-inch diameter, rigid PVC, heavy wall, sunlight resistant (6 percent – 7 percent titanium dioxide by weight), Schedule 40 as per ANSI/NEMA TC 2-2003.

1. A 90 degree Schedule 40 PVC bend, 24-inch minimum radius, shall join the meter socket conduit to the conduit in the trench. See **DTR 54.114**.
2. Bends in the conduit run shall have a minimum radius of 48 inches. This requirement does not include bends used at house or pole risers where the bend radius shall be a minimum of 24 inches, with 36 inches preferred.
3. A 1/4-inch-diameter nylon pull rope, including 10 feet of slack, shall be installed in the conduit. Secure the pull line to a plastic conduit plug (e.g., **SC 526328** for 3-inch diameter), at each end of the conduit run.

SERVICE FROM POLE – If service is from an overhead system, a grounded 90 degree galvanized steel bend shall be installed at the pole. See **DTR 12.057**.

SERVICE FROM HANDHOLE/TRANSFORMER – Extend conduit to distribution facility and mate to previously installed 10-foot conduit stub. Tie pull lines, slide conduit sleeve over both ends and secure with conduit cement. See **DTR 54.203**.

CAUTION – Customer shall not enter any Company structure because it could be energized.

LIMITATIONS – If the route chosen for the conduit requires more than two bends (not including the bend at the riser or the house) exceeding a total of a 45 degree change in direction, the Company may refuse to permit the conduit service and a direct-buried service would be installed.

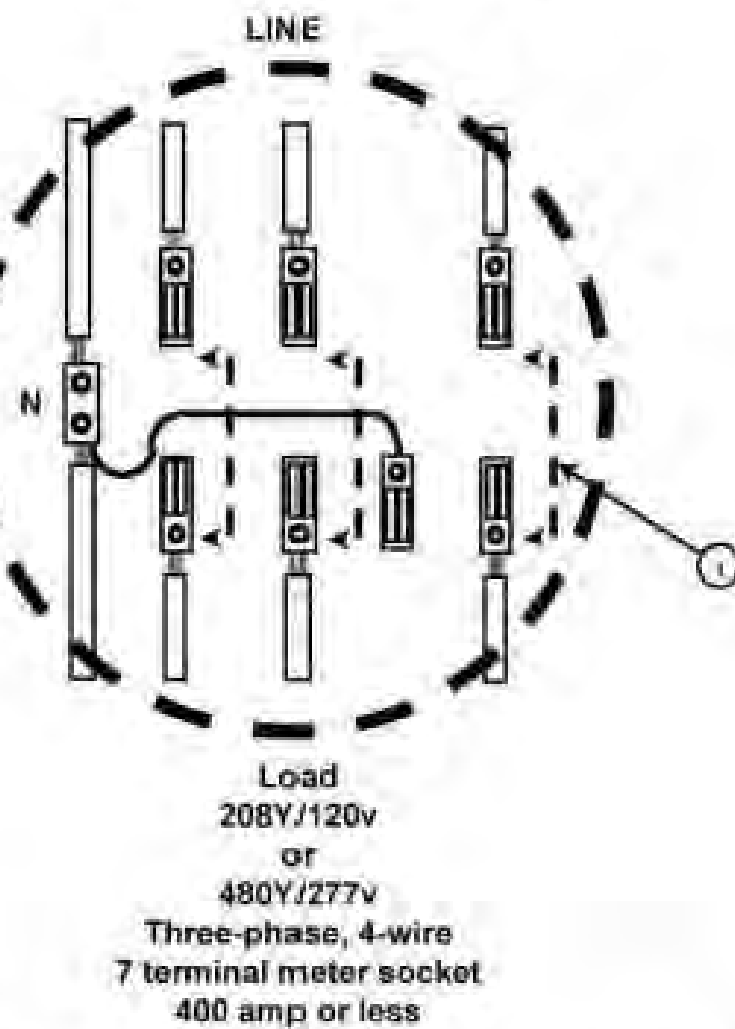
COMPANY CONSIDERATIONS – Services in conduit shall be identified at the transformer or handhole with a brass "SVC IN CNDT" tag. To aid troubleshooting, conduit service shall be clearly designated on mapping records.

ORIGINAL DESIGN APPROVED DATE 10/14/22	DIRECT-BURIED SERVICES IN CONDUIT 600 VOLT AND BELOW		CT/WMA
EVERSOURCE ENERGY	DESIGN & APPLICATION STANDARD	DTR 54.113	6

3 EVERSOURCE PRIMARY & SECONDARY CONDUIT REQUIREMENTS

ES-2 NOT TO SCALE

FIGURE 21
Three -Phase Self-Contained Metering Connections



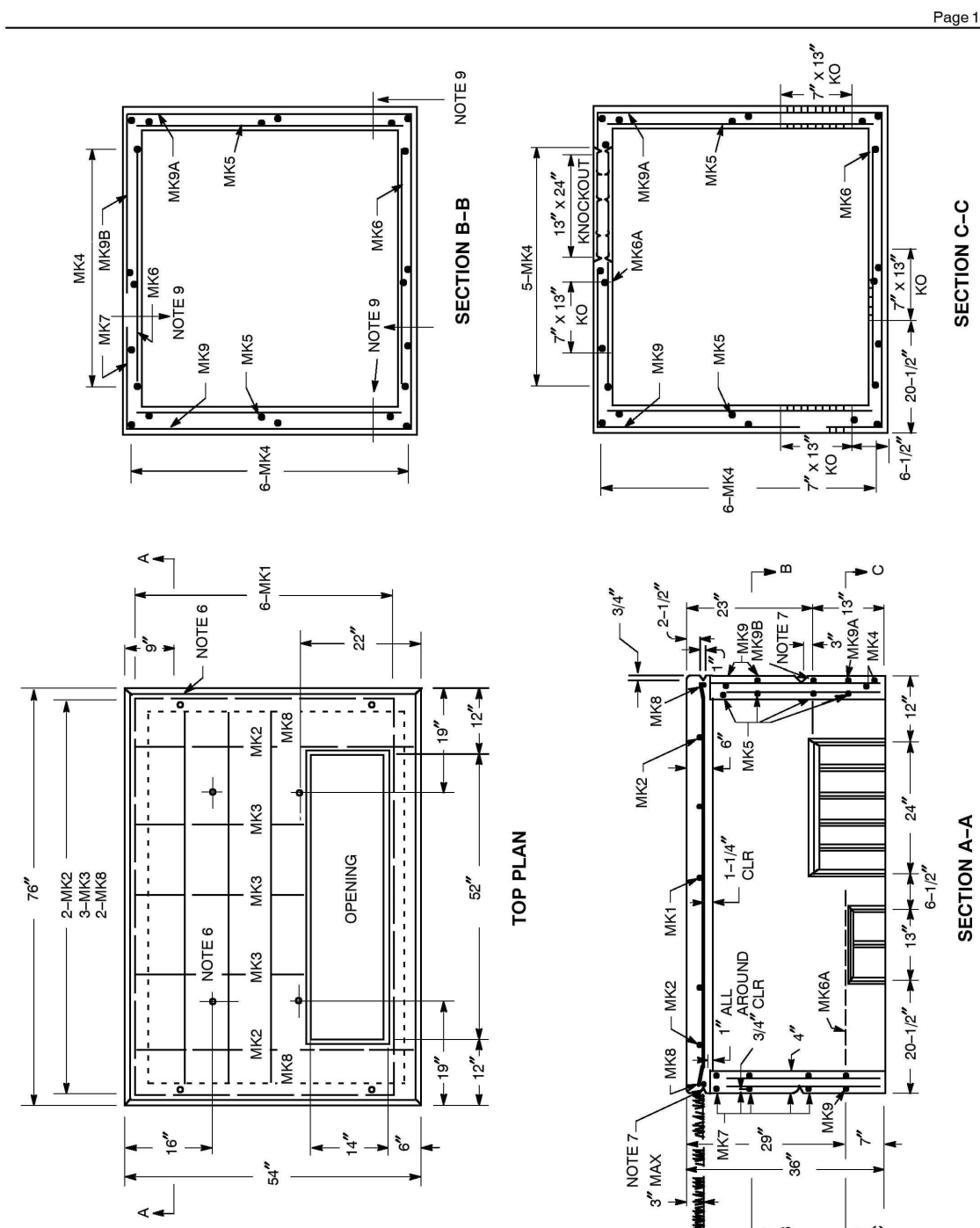
1. An approved lever operated manual bypass with jaw release and flash shield.

Notes

- A. Bond at service equipment in accordance with NEC Article 250. The grounding electrode conductor connection shall be made at an accessible location in the service equipment and not in the meter socket. The grounding electrode conductor shall not be run through the meter socket.
- B. All three-phase network and 480Y/277 volt services will require a main disconnect with over current protection ahead of the meter (Cold Sequence).

4 EVERSOURCE METER DETAIL

ES-2 NOT TO SCALE



ORIGINAL DESIGN APPROVED DATE 10/14/22	PAD – PRECAST CONCRETE – THREE-PHASE TRANSFORMER 75-300 KVA – 76\" x 54\" x 36\"		
EVERSOURCE ENERGY	MATERIAL SPECIFICATION	SPC P-013	7

5 EVERSOURCE TRANSFORMER PAD DETAIL

ES-2 NOT TO SCALE

BAR SCHEDULE			
MARK NO	SIZE	NO OF BARS	DIMENSIONS
MK1	#4	6	62\" x 18\"
MK2	#4	2	40\" x 18\"
MK3	#4	3	20\" x 18\"
MK4	#3	22	20\" x 18\"
MK5	#4	8	51\" x 18\"
MK6	#4	7	50\" x 18\"
MK6A	#4	1	20\" x 18\"
MK7	#4	3	52\" x 27\"
MK8	#4	2	52\" x 38\"
MK9	#4	3	52\" x 38\"
MK9A	#4	1	10\" x 52\"
MK9B	#4	1	44\" x 52\"

Notes

1. **Roof Design Load**: 1300 lbs spread over 1-foot-square area anywhere on roof.
2. **Walls**: Soil pressure of equivalent fluid pressure of 33 pcf. Surcharge of 2.5 feet of soil weighing 120 pcf.
3. **Concrete**: 4000 psi at 28 days. Entrained air 5-8 percent.
4. **Steel**: ASTM A615-1992, Grade 40.
5. All concrete and reinforcement in accordance with ACI 318-1999.
6. For lifting top or bottom sections, cast in four 3/4-inch-diameter Dayton Suregrip (or approved equal) coil loop inserts, galvanized, with T21 plastic setting plugs. Inserts are to be secured in place with rebar.
7. **Top**: Catalog Type B16, 3/4\" diameter x 4\" long.
8. **Bottom**: Catalog Type B16, 3/4\" diameter x 6\" long.
9. Provide 3-inch-long groove (3/4\" x 1\") for lifting sling at each corner, each side.
10. Manufacturer's identification and month/year when manufactured shall be legibly marked in/on concrete in the side.
11. Zinc alloy inserts 3/4\" inch – 10\" x 3\" for cable pulling. To be located 4 inches above (7\" x 13\") knockouts (four).

ORIGINAL DESIGN APPROVED DATE 10/14/22	PAD – PRECAST CONCRETE – THREE-PHASE TRANSFORMER 75-300 KVA – 76\" x 54\" x 36\"		
EVERSOURCE ENERGY	MATERIAL SPECIFICATION	SPC P-014	7

ELECTRICAL SERVICE DETAILS

CONSTRUCTION OF NEW RESTROOM AND FACILITIES STORAGE BUILDING AT THE MERIDEN GREEN

FOR CONSTRUCTION

SGG DESIGNED	SGG DRAWN	SGG CHECKED
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AS NOTED

OCTOBER 14, 2022

DATE

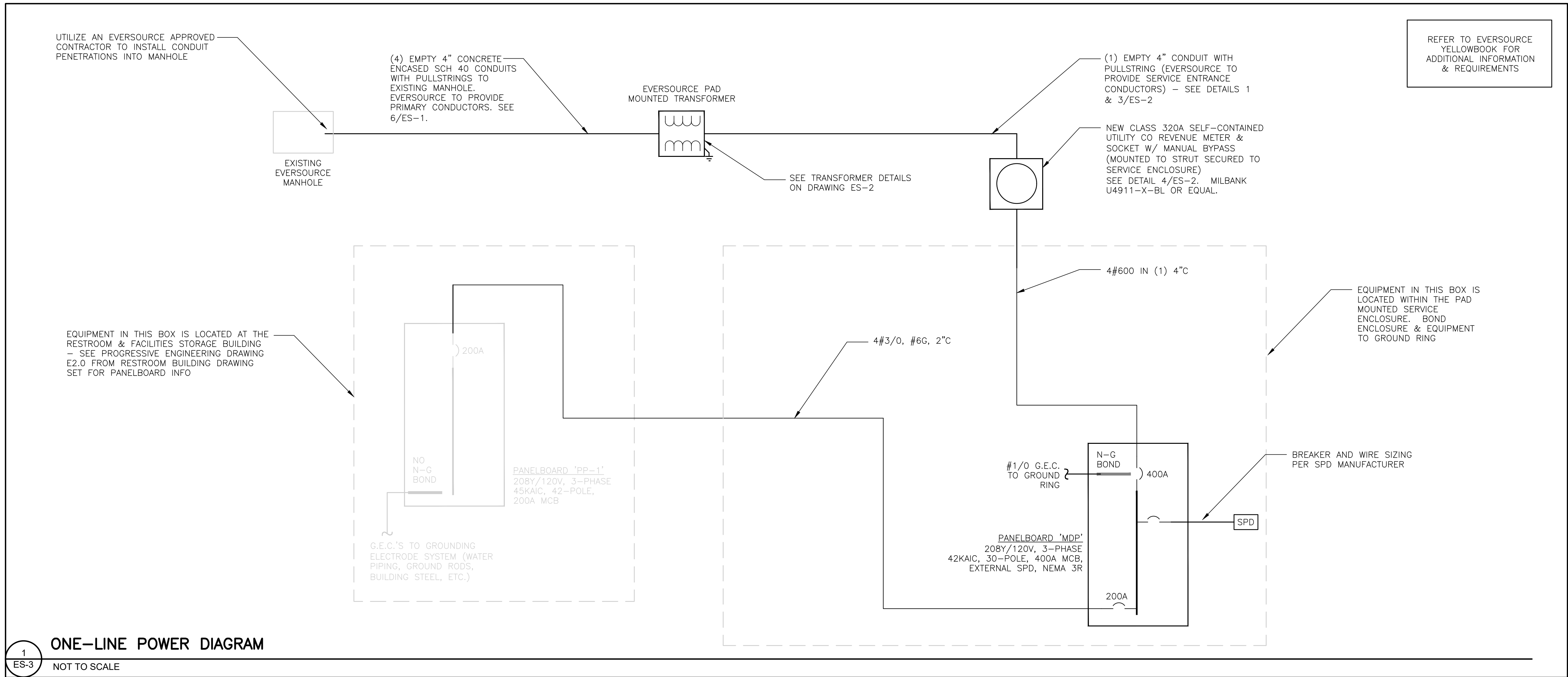
PROJECT NO.

11261.00094

SHEET NO.

ES-2

SHEET NAME



MANUFACTURER: T.B.D. (NEW)		MLO OR MCB: MCB		PANEL: PANEL MDP			
TYPE: PANEL		FEED: SEE RISER		VOLTAGE: 208Y/120V, 3-PHASE			
MOUNTING: SURFACE		CU OR AL WIRE: CU		MAIN AMPS: 400A MCB			
LOCATION: ENCLOSURE		AIC RATING: 42 KAIC		FEEDER: SEE RISER			
BREAKER OPTIONS:							
CKT NO.	LOAD	KVA	BRKR	BRKR	KVA	LOAD	CKT NO.
1	ENCLOSURE HEATER		20	20		SPARE	2
3	CONVENIENCE RECEPTACLE		20	20		SPARE	4
5	SPARE		20	20		SPARE	6
7	SPARE		20	20		SPARE	8
9	SPARE		20	20		SPARE	10
11	SPARE		20	20		SPARE	12
13	SPARE		20	20		SPARE	14
15	SPARE		20	20		SPARE	16
17	SPARE		20	20		SPARE	18
19	SPARE		20	20		SPARE	20
21	SPARE		20	20		SPARE	22
23	SPARE		20	20		SPARE	24
25	SPD		TBD	200		OUTBUILDING	26
27	"		-	-		"	28
29	"		-	-		"	30

2

ES-3

ELECTRICAL PANEL SCHEDULE

NTS

- GENERAL NOTES
1.

ALL CONDUITS SHALL BE CONCEALED UNDERGROUND WHEREVER POSSIBLE.
2.

WHERE CONDUIT MUST BE EXPOSED, PAINT TO MATCH MOUNTING SURFACE.
3.

UTILIZE RIGID GALVANIZED STEEL CONDUIT FOR SWEEPS.
4.

INSTALL A POWER SOURCE DIRECTORY / MAP AT THE NEW PAD MOUNTED SERVICE ENCLOSURE. UTILITY TRANSFORMER AND RESTROOM BUILDING PANEL 'PP-1'. MAP SHALL SHOW DIAGRAMMATIC LOCATIONS OF THE BUILDING, SERVICE DISCONNECT AND UTILITY TRANSFORMER.

UTILITY CONTACT INFO

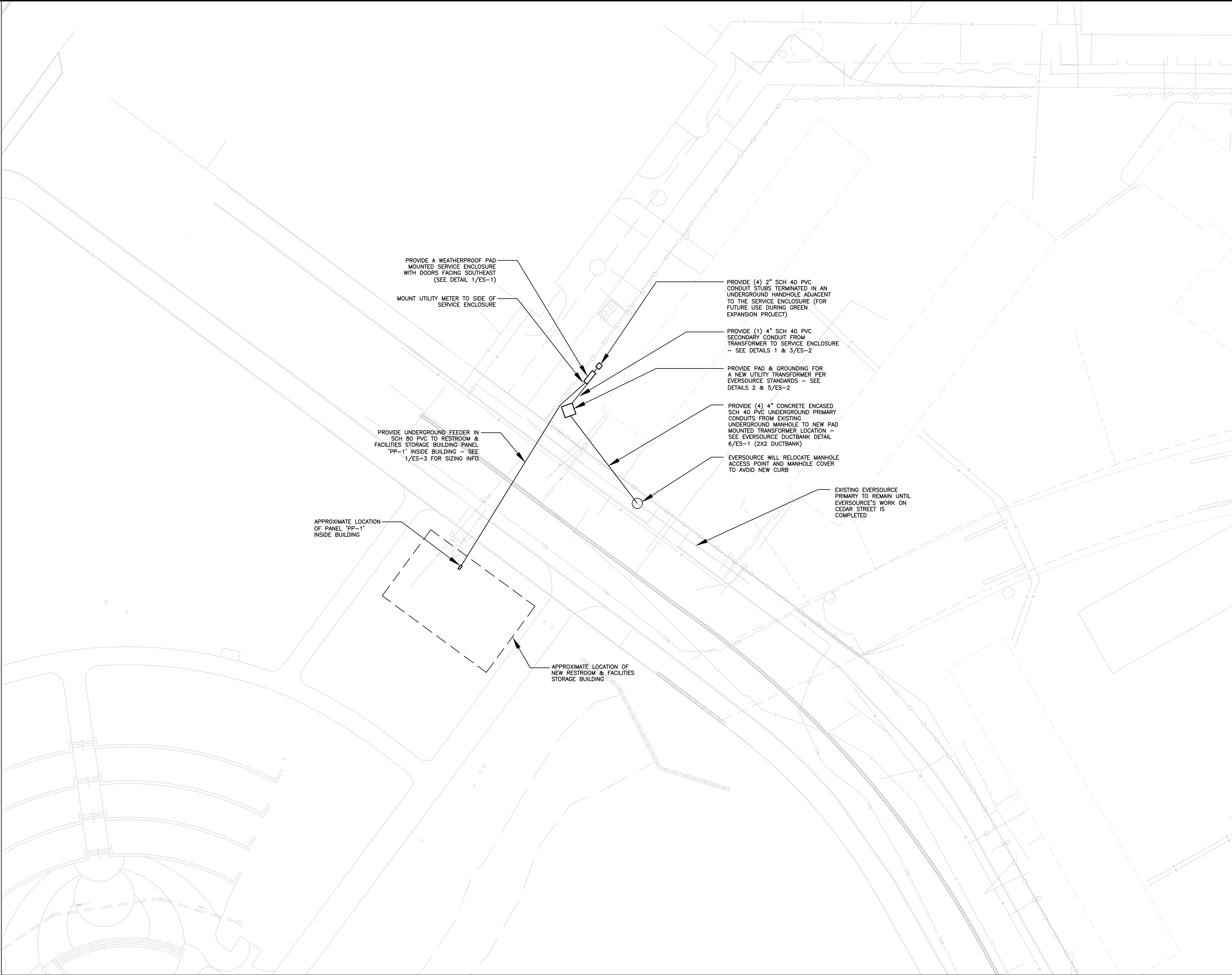
JONATHAN MAKOWSKI

EVERSOURCE

jonathan.makowski@eversource.com

203-271-4856 (c) / 860-965-7346 (c)

WORK REQUEST #8963008



SOUTHINGTON, CT

SGSENGINEERING.COM

203.271.1773

203.271.5446

99 REALTY DRIVE

SOUTHINGTON, CT 06489

203.271.1773

SLRCONSULTING.COM

DESCRIPTION	DATE	BY
BID DOCUMENTS	10/14/22	SGG

ELECTRICAL SITE PLAN - CURRENT CONDITIONS

CONSTRUCTION OF NEW RESTROOM AND FACILITIES STORAGE BUILDING
AT THE MERIDEN GREEN

MILL STREET
MERIDEN, CONNECTICUT

FOR CONSTRUCTION

SGG	SGG	SGG
DESIGNED	DRAWN	CHECKED

AS NOTED

OCTOBER 14, 2022

DATE

11261.00094

PROJECT NO.

SHEET NO.

ES-4

SHEET NAME

- GENERAL NOTES
1.

ALL CONDUITS SHALL BE CONCEALED UNDERGROUND WHEREVER POSSIBLE.
2.

WHERE CONDUIT MUST BE EXPOSED, PAINT TO MATCH MOUNTING SURFACE.
3.

UTILIZE RIGID GALVANIZED STEEL CONDUIT FOR SWEEPS.
4.

INSTALL A POWER SOURCE DIRECTORY / MAP AT THE NEW PAD MOUNTED SERVICE ENCLOSURE. UTILITY TRANSFORMER AND RESTROOM BUILDING PANEL 'PP-1'. MAP SHALL SHOW DIAGRAMMATIC LOCATIONS OF THE BUILDING, SERVICE DISCONNECT AND UTILITY TRANSFORMER.

UTILITY CONTACT INFO

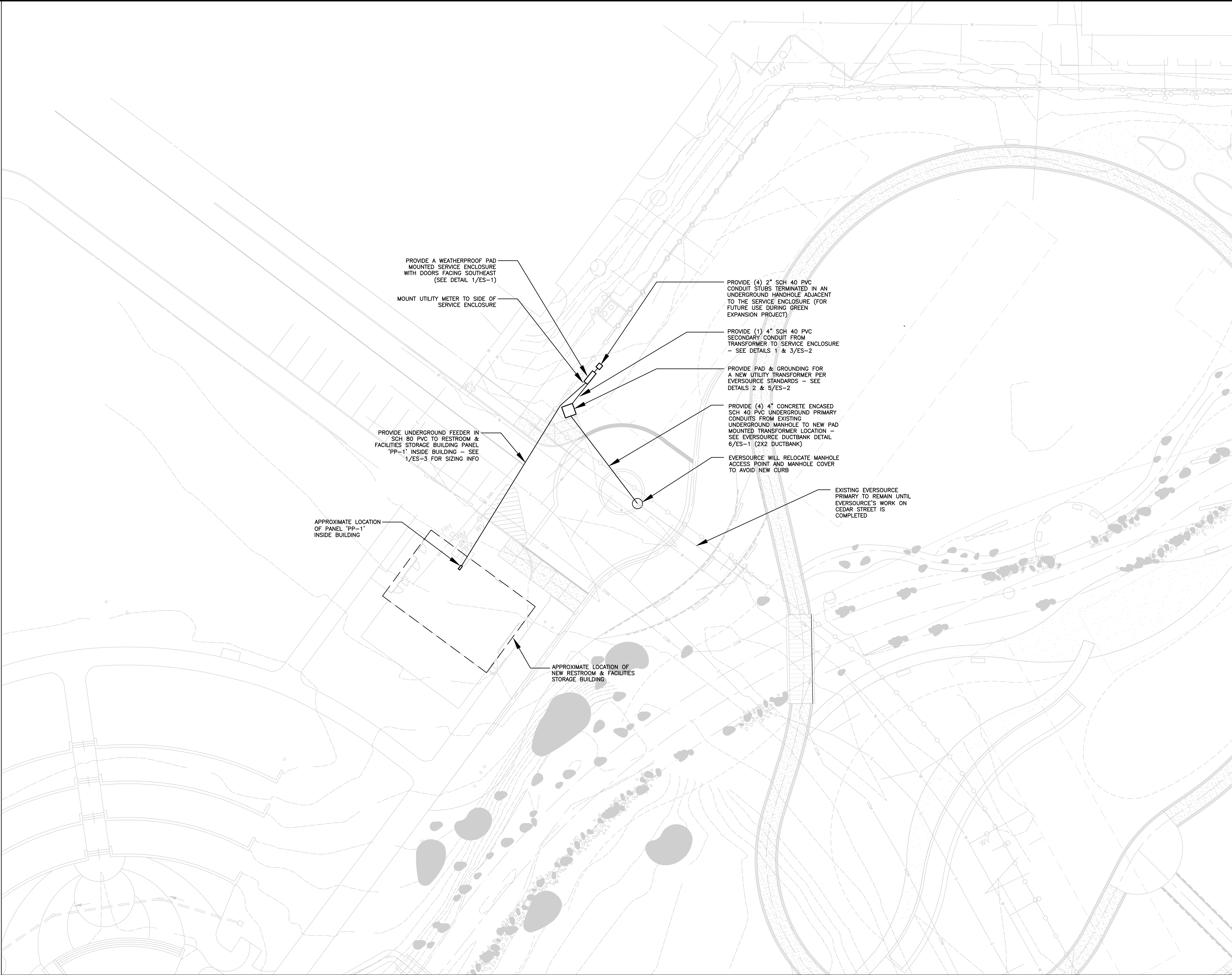
JONATHAN MAKOWSKI

EVERSOURCE

jonathan.makowski@eversource.com

203-271-4856 (c) / 860-965-7346 (c)

WORK REQUEST #8963008



1

ES-5

ELECTRICAL SITE PLAN – FUTURE CONDITIONS

SCALE: 1"= 20'-0"

0'

10'

20'

1"

12"

1'

SG ENGINEERING LLC

SOUTHINGTON, CT

508.258.5810

203.271.1773

203.215.9448

SLR

99 REALTY DRIVE

SOUTHINGTON, CT 06488

203.271.1773

SLRCONSULTING.COM

DESCRIPTION

DATE

BY

BID DOCUMENTS

10/14/22

SGG

ELECTRICAL SITE PLAN - FUTURE CONDITIONS

CONSTRUCTION OF NEW RESTROOM AND FACILITIES STORAGE BUILDING AT THE MERIDEN GREEN

MILL STREET
MERIDEN, CONNECTICUT

FOR CONSTRUCTION

SGG

SGG

SGG

DESIGNED

DRAWN

CHECKED

AS NOTED

OCTOBER 14, 2022

DATE

11261.00094

PROJECT NO.

SHEET NO.

ES-5

SHEET NAME