

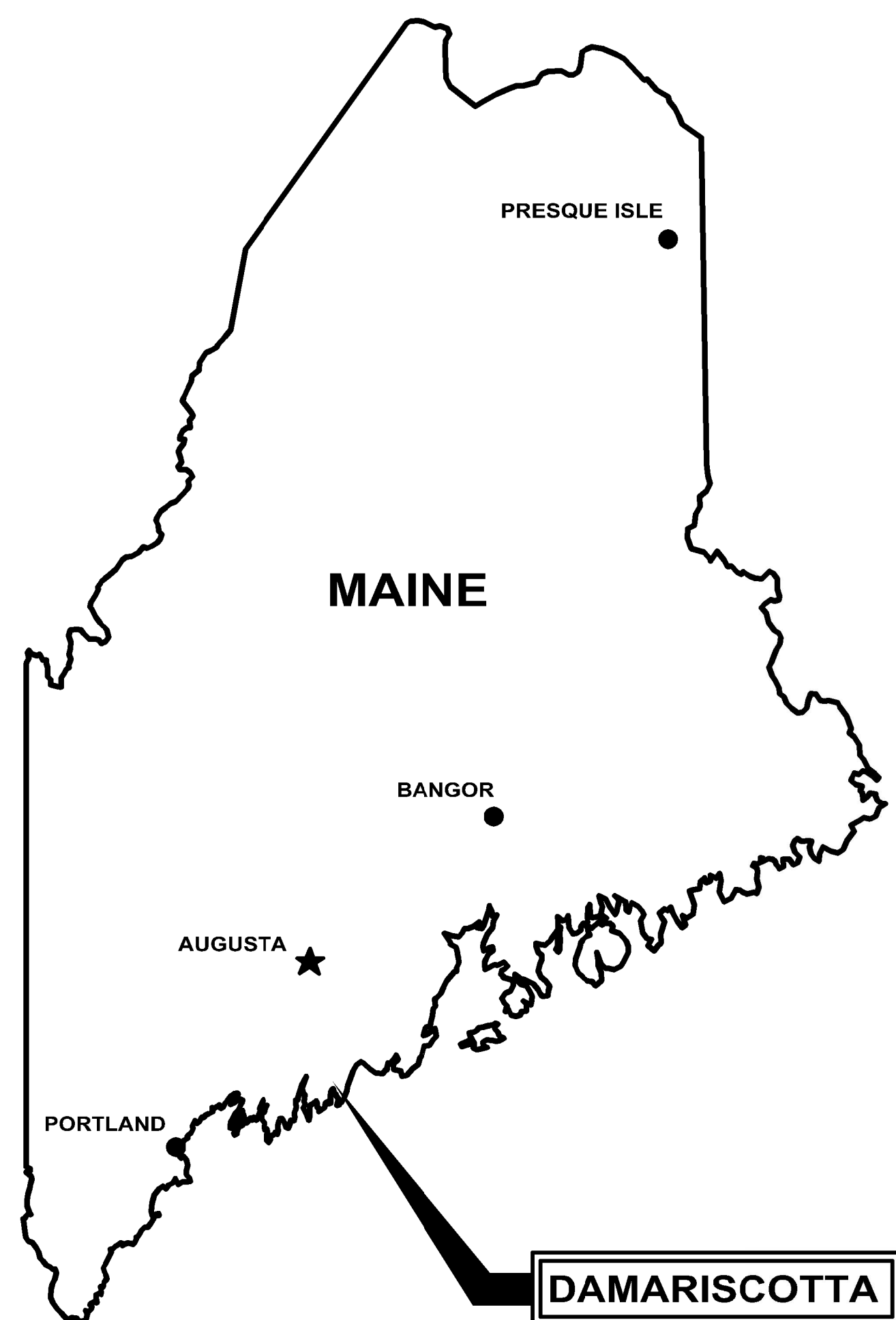
# TOWN OF DAMARISCOTTA

## CONTRACT DRAWINGS FOR

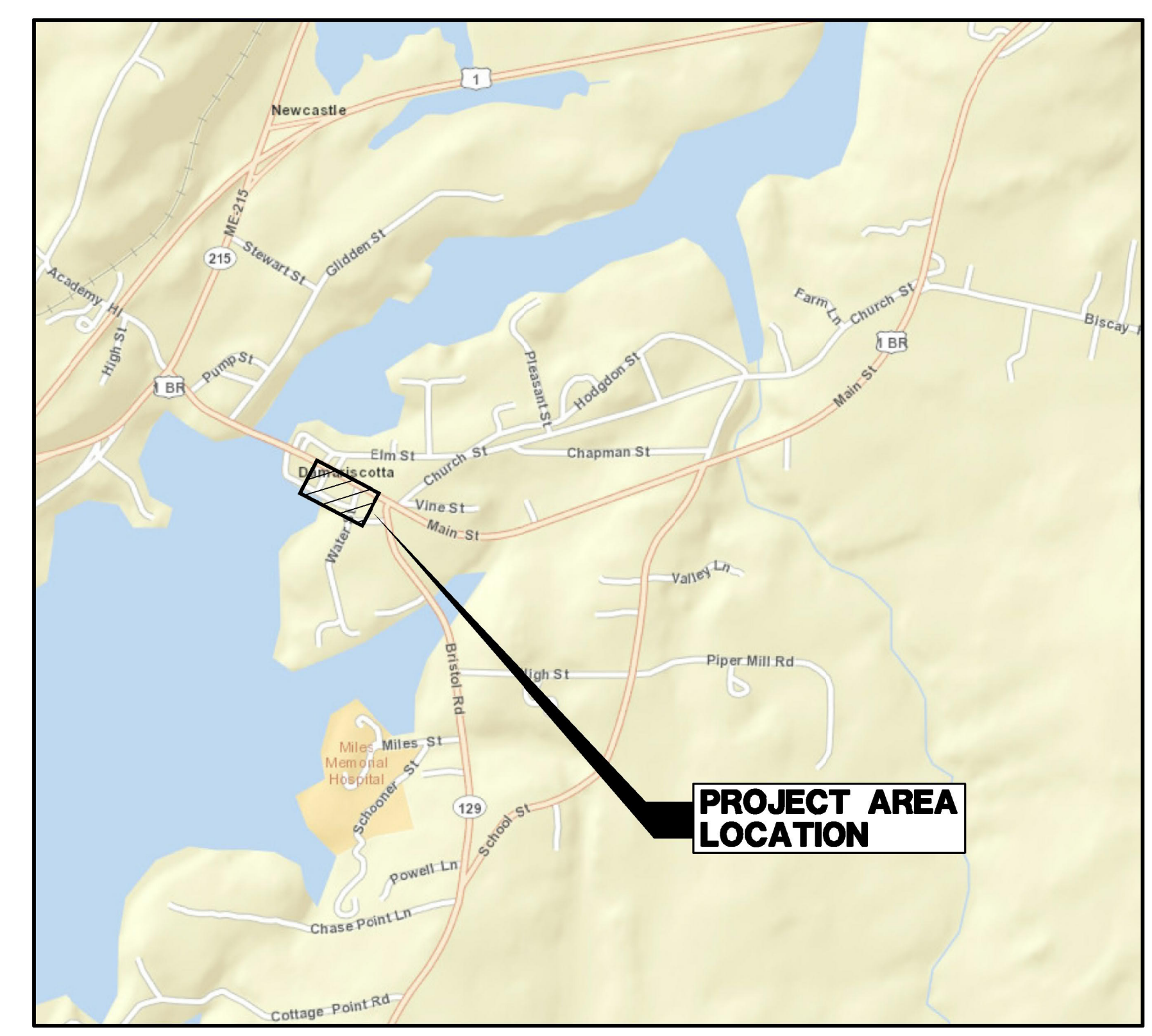
# WATERFRONT RESTROOM

## DAMARISCOTTA, MAINE

### AUGUST 2018

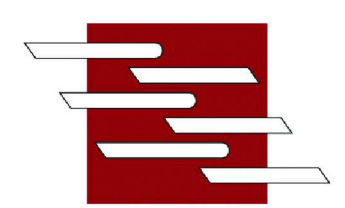


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**LOCATION PLAN**  
SCALE: 1"=500'

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FOR REVIEW 08-22-2018  
FOR BIDDING \_\_\_\_\_  
WP PROJECT No. 13116E



GENERAL NOTES

1. BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION PROVIDED BY EACH UTILITY. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD WITH THE RESPECTIVE UTILITY REPRESENTATIVE PRIOR TO COMMENCING WORK. REFER TO SPECIFICATION SECTION 01050. ADDITIONAL TEST PITS, BEYOND THOSE SHOWN, MAY BE REQUIRED. UTILITY CONTACTS ARE AS FOLLOWS:

<b>PUBLIC WORKS DEPARTMENT:</b>	<b>ELECTRIC:</b>	<b>WATER &amp; SEWER</b>
TOWN OF DAMARISCOTTA, 21 SCHOOL STREET DAMARISCOTTA, MAINE 04543 TEL (207) 563-5168	CENTRAL MAINE POWER CO. 280 BATH ROAD BRUNSWICK, MAINE 04011 TEL (207) 882-4131	GREAT SALT BAY SANITARY DISTRICT 121 PIPER MILL ROAD DAMARISCOTTA, MAINE 04543 TEL (207) 563-3010 (WATER) TEL (207) 563-5105 (WASTEWATER)
<b>TELEPHONE:</b>	<b>CABLE TELEVISION:</b>	
TIDEWATER TELECOM 133 BACK MEADOW ROAD NOBLEBORO, ME 04555 TEL. (207)-563-9911	TIME WARNER CABLE 83 ANTHONY AVENUE AUGUSTA, MAINE 04330 TEL. (207)-620-3412	

1. THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS AS NECESSARY WITH EACH RESPECTIVE UTILITY COMPANY.
2. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO TIDEWATER TELECOM, CENTRAL MAINE POWER COMPANY AND TIME WARNER CABLE. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
3. REFER TO SPECIFICATION SECTION 01010, WHICH CONTAINS INFORMATION REGARDING CONSTRUCTION SEQUENCING.
4. REFER TO SPECIFICATION SECTION 01050 FOR COORDINATION WITH OTHERS.
5. REFER TO SPECIFICATION SECTION 01150 FOR MEASUREMENT AND PAYMENT OF ALL WORK ITEMS.
6. REFER TO SPECIFICATION SECTION 01150 FOR ALL INCIDENTAL ITEMS FOR WHICH NO PAYMENT IS MADE.
7. THE CONTRACTOR SHALL FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE HE CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK, UNTIL THE PROJECT IS COMPLETE.
8. THE CONTRACTOR SHALL PRODUCE AND FURNISH PROJECT RECORDS AS REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING, BUT NOT LIMITED TO CONSTRUCTION SCHEDULES, BONDS, SHOP DRAWINGS, WARRANTIES, GUARANTEES, CERTIFICATIONS, "AS-BUILT" DRAWINGS AND OTHER SUBMITTALS.
9. THE CONTRACTOR SHALL TAKE PRE-CONSTRUCTION PHOTOGRAPHS AND PROVIDE COPIES TO THE OWNER PRIOR TO CONSTRUCTION IN ACCORDANCE WITH SPECIFICATION SECTION 01380. THIS WORK SHOULD INCLUDE ALL PRIVATE AREAS THAT MAY BE IMPACTED BY THE PROJECT.
10. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
11. THE CONTRACTOR SHALL COORDINATE STAGING OF MATERIALS WITH THE TOWN.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED EARTH SURFACES ARE TO BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL IS TO BE IN A MANNER THAT WILL MINIMIZE EROSION. MATERIALS AND METHODS USED FOR TEMPORARY EROSION CONTROL SHALL BE AS SPECIFIED BY THE "MAINE EROSION AND SEDIMENT CONTROL BMP'S". PREPARED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
13. THE CONTRACTOR SHALL STOP ALL OPERATIONS AND NOTIFY THE TOWN IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING PROSECUTION OF THE WORK. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF OSHA AND ALL OTHER FEDERAL, STATE AND LOCAL REGULATIONS WHEN HANDLING AND/OR DISPOSING OF HAZARDOUS MATERIALS.
14. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN A MANNER CONSISTENT WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
15. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES IN ACCORDANCE WITH SPECIFICATION SECTION 01570. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN TO THE TOWN PRIOR TO COMMENCING CONSTRUCTION.
16. ONE-WAY TRAFFIC IS INTENDED TO BE MAINTAINED AT ALL TIMES. THE TOWN, DAMARISCOTTA POLICE DEPARTMENT (207-563-1909) AND FIRE DEPARTMENT (207-563-8286) ARE TO BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CROSSING.
17. OPEN TRENCHES MUST BE BACKFILLED AT THE END OF THE WORKDAY.
18. THE CONTRACTOR SHALL CONTROL DUST TO A TOLERABLE LIMIT AS OUTLINED IN SPECIFICATION SECTION 01562. THE CONTRACTOR SHALL NOT TRACK OR SPILL EARTH OR DEBRIS OUTSIDE THE PROJECT AREA.
19. ALL EXISTING MANHOLES, VALVE BOXES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADE. CONTRACTOR SHALL COORDINATE WORK WITH RESPECTIVE UTILITIES. THIS COORDINATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
20. WHEN NEW PAVEMENT ABUTS EXISTING PAVEMENT, CONCRETE, AND STONE STRUCTURES, APPLY A UNIFORMLY DISTRIBUTED TACK COAT PRIOR TO NEW PAVEMENT PLACEMENT. RATE OF TACK COAT APPLICATION SHALL NOT BE LESS THAN 0.15 GAL/S.Y.
21. CONTRACTOR SHALL TAKE SPECIAL CARE TO PREVENT LOSS OF AGGREGATE BASE AND BEDDING SAND MATERIALS FOR SIDEWALK CONSTRUCTION THROUGH ADJACENT GRANITE CURBING BY INSTALLING JOINT MORTAR AND FILTER FABRIC AT ALL GRANITE CURB JOINTS AS SPECIFIED IN SECTION 02525.
22. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE PIPE TRENCH AND BUILDING EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL BACKFILLED. INJURY TO ANY SUCH STRUCTURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY.
30. COMPACTION WILL BE REQUIRED IN ACCORDANCE WITH SPECIFICATION SECTION 02200. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF SUBSTANTIAL COMPLETION OF THE PROJECT WILL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER

SURVEY & LAYOUT NOTES

1. DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS SHALL PREVAIL. ALL PLAN DIMENSIONS AND LOCATIONS ARE APPROXIMATE.
2. EXISTING TOPOGRAPHIC SURVEY AND BOUNDARY SURVEY INFORMATION IS BASED ON A PLAN ENTITLED "MUNICIPAL PARKING LOT, DAMARISCOTTA, LINCOLN COUNTY, MAINE" BY MAINE COAST SURVEY, DATED APRIL 7, 2009.
3. EXISTING SEWER INFRASTRUCTURE IS BASED ON AS-BUILT DATA PROVIDED BY WRIGHT-PIERCE AND THE GREAT SALT BAY SANITARY DISTRICT. AS-BUILT PLANS ARE INCLUDED IN APPENDIX "C" OF THE SPECIFICATIONS.
4. A GEOTECHNICAL REPORT IS INCLUDED IN APPENDIX "A" OF THE SPECIFICATIONS.
5. LIMITS OF WORK ARE APPROXIMATE AS SHOWN. CONTRACTOR SHALL REFER TO THE DETAIL DRAWINGS IN TERMS OF THE INTENT OF THE DESIGN AND FIELD VERIFY THE ACTUAL LIMITS OF WORK WITH THE TOWN PRIOR TO COMMENCING CONSTRUCTION.
6. LAYOUT OF ALL CONSTRUCTION AND MAINTENANCE OF PROJECT BENCHMARKS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND EASEMENTS. THE CONTRACTOR SHALL VERIFY THAT THE NECESSARY EASEMENTS HAVE BEEN SECURED BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL RIGHTS-OF-WAY AND EASEMENTS WILL BE AVAILABLE FOR REVIEW AT THE TOWN HALL, PRIOR TO NOTICE TO PROCEED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTling ALL EXISTING PROPERTY MONUMENTATION THAT IS DISTURBED BY HIS OPERATIONS AT NO EXPENSE TO THE OWNER. THIS WORK IS TO BE DONE BY A LAND SURVEYOR LICENSED IN THE STATE OF MAINE. PROPERTY BOUNDS FOUND ARE SHOWN ON LAYOUT PLANS, THIS MAY NOT BE INCLUSIVE OF ALL BOUNDS THAT EXIST IN THE PROJECT AREA. IF ANY ADDITIONAL BOUNDS ARE FOUND, THE CONTRACTOR SHALL DOCUMENT THE LOCATION AND NOTIFY THE OWNER.

SITE DEMOLITION NOTES

1. NO BLASTING SHALL BE ALLOWED FOR THIS PROJECT.
2. ALL AREAS THAT ARE EXCAVATED, FILLED OR OTHERWISE DISTURBED BY THE CONTRACTOR WHICH ARE NOT APPROVED BY THE OWNER PRIOR TO CONSTRUCTION, INCLUDING BUT NOT LIMITED TO BUILDINGS, RETAINING WALLS, WALKWAYS, STEPS, FENCES AND LANDSCAPE AREAS, SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION OR BETTER. THIS WORK IS CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL BE AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. SEVERING OF EXISTING UTILITIES FOR ABANDONMENT, OR REMOVAL OF A SEGMENT FROM SERVICE, SHALL BE PERFORMED IN SUCH A MANNER AS TO ALLOW THE REMAINING ACTIVE SEGMENT TO CONTINUE IN ITS INTENDED SERVICE. CAP ACTIVE SEGMENTS WITH APPROPRIATE FITTINGS, JOINT RESTRAINT, ETC. TO ENSURE THEIR INTEGRITY. PLUG ENDS OF ABANDONED PIPE SEGMENTS WITH CONCRETE UNLESS SPECIAL CIRCUMSTANCES DICTATE PLUGGING ABANDONED PIPES WITH BLIND FLANGES, RESTRAINED MECHANICAL JOINT CAPS, ETC. AS APPROPRIATE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE OWNER RESERVES THE RIGHT TO RETAIN ANY SUCH PIPING, EQUIPMENT AND MATERIALS DESIGNATED FOR DEMOLITION FOR HIS USE. COORDINATE LOCATION AND MATERIALS TO BE SALVAGED WITH THE OWNER.
5. THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AS PART OF THE PROJECT RECORD DOCUMENTS IN ACCORDANCE WITH SPECIFICATION SECTION 01720.
6. ALL PAVEMENT TO BE REMOVED SHALL BE SAW CUT WHERE ABUTTING EXISTING PAVEMENT TO REMAIN.

GRADING & DRAINAGE NOTES

1. ALL STORM DRAINAGE STRUCTURES SHALL BE PROTECTED TO PREVENT SEDIMENTATION FROM RUNOFF WATERS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL COLLECTED SEDIMENT, RESULTING FROM HIS OPERATIONS UNTIL THE PROJECT IS COMPLETE.
2. ALL NEW PAVED AREA SURFACES SHALL PITCH 1/4 INCH PER FOOT MINIMUM UNLESS OTHERWISE NOTED. ALL RECONSTRUCTED PAVED AREAS SHALL MATCH EXISTING SLOPE CONDITIONS UNLESS OTHERWISE NOTED.
3. THE INVERTS SHOWN ARE AT THE INSIDE FACE OF THE STRUCTURE. THE TOP OF THE CATCH BASIN GRATES AND FRAMES SHALL BE SET FLUSH WITH FINISH GRADE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROPRIATE DISPOSAL OF SEDIMENTARY FLOWS RESULTING FROM PRECIPITATION AND HIS CONSTRUCTION OPERATIONS UNTIL THE PROJECT IS SUBSTANTIALLY COMPLETE AND TEMPORARY EROSION CONTROL MEASURES ARE NO LONGER REQUIRED.
5. STORM DRAIN PIPE AND BASIN STRUCTURES SHALL NOT BE INSTALLED CLOSER THAN 3 FEET HORIZONTALLY (CENTER TO CENTER) TO SEWER OR WATER MAINS, REGARDLESS OF DEPTH, UNLESS APPROVED BY THE TOWN.

PIPING NOTES

1. REFER TO SPECIFICATION SECTION 02200 FOR PIPE BEDDING AND BACKFILL REQUIREMENTS.
2. ALL EXISTING SYSTEM VALVES ARE TO BE OPERATED SOLELY BY THE GBSBD. COORDINATION OF SHUTDOWNS NEED TO BE MADE 7 DAYS IN ADVANCE OF THE SHUTDOWN TO ALLOW FOR CUSTOMER NOTIFICATION.
3. NO WATER MAIN OR SERVICE CONNECTION SHALL BE CONNECTED TO THE EXISTING SYSTEM UNTIL THE MAIN HAS BEEN TESTED IN ACCORDANCE WITH SECTION 02675 AND RESULTS ACCEPTED BY THE OWNER.
4. ALL PIPE LINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS INDICATED ON THE DRAWINGS. NO CRESTS IN PIPING WILL BE PERMITTED. ALL HORIZONTAL AND VERTICAL BENDS IN PRESSURIZED LINES SHALL BE SUITABLY RESTRAINED WITH RETAINER GLANDS AND THRUST BLOCKS. INSTALL ALL BENDS (HORIZONTAL AND VERTICAL) AS REQUIRED TO MEET THE GRADES AND ALIGNMENT INDICATED ON THE DRAWINGS.
5. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED FOR PROPER ALIGNMENT AND TO COMPLETE THE CONNECTION. THE CONTRACTOR SHALL VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIALS OF CONSTRUCTION. TEST PITS SHALL BE USED AS REQUIRED.
6. TEST CORPORATIONS FOR DISINFECTION AND PRESSURE TESTING WILL BE REMOVED AND PLUGGED FOLLOWING SUCCESSFUL RESULTS.
7. THE CONTRACTOR WILL COORDINATE WITH GBSBD FOR ALL PRESSURE AND DISINFECTION TESTING.
8. ALL PIPE FITTINGS, VALVES AND ASSOCIATED APPURTENANCES IN CONTACT WITH POTABLE WATER SHALL BE ANSI/NSF 61 COMPLIANT.
9. PROVIDE RIGID FOAM INSULATION OVER ANY WATER MAINS, WATER SERVICES, SEWER MAINS OR SERVICES WHERE COVER IS LESS THAN 5 FT, OR THERE IS LESS THAN 2 FT VERTICAL/HORIZONTAL DISTANCE FROM STORMDRAIN INFRASTRUCTURE.

EROSION AND SEDIMENTATION CONTROL NOTES

1. THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS AS CONTAINED IN THE "MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES", PREPARED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES ARE SHOWN ON THE SITE PLAN.
3. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES", MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, DATED MARCH 2003.
4. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNTREATED OR UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
5. SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UPGRADIENT DRAINAGE AREAS.
6. INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
7. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSURE. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
8. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH RIPRAP OR OTHER STRUCTURAL MEANS.
9. IF FINAL SEEDING AND SODDING IS NOT EXPECTED PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY ANNUAL RYEGRASS SEEDING AND MULCHING ON ROUGH GRADED SUBSOIL TO PROTECT THE SITE AND DELAY PERMANENT LOAMING, FINE GRADING, AND SEEDING OR SODDING UNTIL SPRING.
10. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH GRADED SHALL BE COMPLETED 30 DAYS PRIOR TO THE FIRST KILLING FROST.
11. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
12. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED.
13. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
14. STABILIZATION SCHEDULE BEFORE WINTER:
- SEPTEMBER 15 ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED. ALL SLOPES MUST BE STABILIZED, SEEDED AND MULCHED. SLOPES 3:1 OR GREATER TO BE STABILIZED WITH EROSION CONTROL MATTING AND SEEDED.
- OCTOBER 1 ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED.
- NOVEMBER 15 SLOPES THAT ARE COVERED WITH RIPRAP MUST BE CONSTRUCTED BY THAT DATE.
- DECEMBER 1 ALL DISTURBED AREAS WHERE THE GROWTH OF VEGETATION FAILS TO BE AT LEAST THREE INCHES TALL OR AT LEAST 75% OF THE DISTURBED SOIL IS COVERED BY VEGETATION, MUST BE PROTECTED FOR OVER-WINTER.

CIVIL ABBREVIATIONS

&	AND
Ø, DIA	DIAMETER
#, NO	NUMBER
APP'D	APPROVED
BLOG	BUILDING
CB	CATCH BASIN
CEN	CENTER
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
COR	CORNER
CY	CUBIC YARD
DEMO	DEMOLITION
DMH	DRAIN MANHOLE
DI	DUCTILE IRON
DR	DRAIN
DWG	DRAWING
EL	ELEVATION
EMH	ELECTRIC MANHOLE
FM	FORCE MAIN
FT	FEET
G	GAS
HYD	HYDRANT
IN	INCH
INF	INFLUENT
INV	INVERT
LBS	POUNDS
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MW	MONITORING WELL
N	NORTH
NGVD	NATIONAL GEODETIC VERTICAL DATUM
N/A	NOT AVAILABLE/APPLICABLE
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PC	PERFORATED CLAY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PS	PRIMARY SLUDGE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REQ'D	REQUIRED
S	SLOPE, SEWER
SD	STORM DRAIN
SF	SQUARE FEET
SMH	SANITARY SEWER MANHOLE
SQ	SQUARE
STA	STATION
T, XFMR	TRANSFORMER
TBM	TEMPORARY BENCH MARK
THK	THICKNESS
TOS	TOP OF STRUCTURE
TYP	TYPICAL
UD	UNDERDRAIN
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
VC	VITRIFIED CLAY
W/	WITH
W	POTABLE WATER

PRELIMINARY  
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EROSION CONTROL - WINTER CONSTRUCTION

1. WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15.
2. WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
3. EXPOSED AREA SHOULD BE LIMITED SUCH THAT THE AREA CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
4. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
5. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
6. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES, THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MUST BE STABILIZED WITH MULCH. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
7. THE APPLICATION OF MULCH TO FINE GRADED AREAS WILL BE STABILIZED AS FOLLOWS:
- A) BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION, CHEMICAL TACK OR WOOD CELLULOSE FIBER.
- B) MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GRATER THAN 8%.
- C) MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
8. AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
9. DURING WINTER CONSTRUCTION PERIODS ALL SNOW SHALL BE REMOVED FROM AREAS OF MULCHING PRIOR TO PLACEMENT.

DESIGNED BY: TJP  
CADD COORD: MRL  
CHECKED BY: JCE  
DATE: TJP  
DATE: PROJECT NO: 13116E

NO

DATE

APP'D

SUBMISSIONS/REVISIONS

TOWN OF DAMARISCOTTA  
WATERFRONT RESTROOM  
DAMARISCOTTA, MAINE

CIVIL GENERAL NOTES, LEGEND & ABBREVIATIONS

DRAWING  
C-1



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MAIN ST (U.S. RTE 1B)

250' SHORELAND ZONE

N

0 10 20

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MUSCONGUS POINT, BOX 163  
ROUND POND, ME 04564

RONALD & JEAN SIMMONS  
PO BOX 41  
PORT CLYDE, ME 04855

JEAN KERRIGAN / RICHARD HIRSCH  
125 BORLAND HILL RD  
NOBLEBORO, ME 04555

ROSS FLOOD PROPERTIES, LLC #4  
22 YELLOW HEAD RD  
NEW HARBOR, ME 04554

THE PROFESSIONAL BUILDING OF DAMARISCOTTA, LLC  
C/O CHRISTIE JACOBS  
7586 CENTAUR DR  
EVERGREEN, CO 80439

MILLER HOLDINGS, LLC  
683 BISCAP RD  
BREMEN, ME 04551

MALCOM S. OLIVER  
490 SENNETT RD  
JEFFERSON, ME 04551

CLAY SEWER SERVICE  
(REPAIRED DURING 2017  
TEST PIT EXCAVATION)

SEE GEOTECHNICAL REPORT FOR  
TEST PIT & BORING INFORMATION

RELOCATION OF UTILITY POLE BY  
TIDEWATER TELECOM (TBD)

APPROXIMATE LOCATION  
OF FORMER BARBER  
SHOP BUILDING &  
FOUNDATION DEMOLISHED  
BY TOWN DURING 2018.

REMOVE / DEMOLISH BOLLARD

3" CI SEWER SERVICE  
W/ CLEAN OUT (REPORTED BY TOWN)

SEE SITE LAYOUT PLAN & OWNER  
EASEMENTS FOR APPROXIMATE LIMITS  
OF WORK & STAGING OF MATERIALS W/  
OWNER PRIOR TO CONSTRUCTION.

PAVED PARKING LOT

INSTALL SILT SACK

INSTALL SILT SACK  
CB RIM EL=6.74'  
INV IN=3.39'  
INV OUT=3.69'

INSTALL SILT SACK  
CB RIM EL=7.28'  
INV OUT=4.23'

ROOF LEADER

ROOF LEADER

ROOF LEADER

CB RIM EL=8.23'

CB RIM EL=7.31'  
INV OUT=3.11'

75' SHORELINE SETBACK

FEMA COASTAL AE FLOOD ZONE  
EL=10'

TOWN OF DAMARISCOTTA  
WATERFRONT RESTROOM  
DAMARISCOTTA, MAINE

EXISTING CONDITIONS & DEMOLITION PLAN

DRAWING

C-2

**WRIGHT-PIERCE**  
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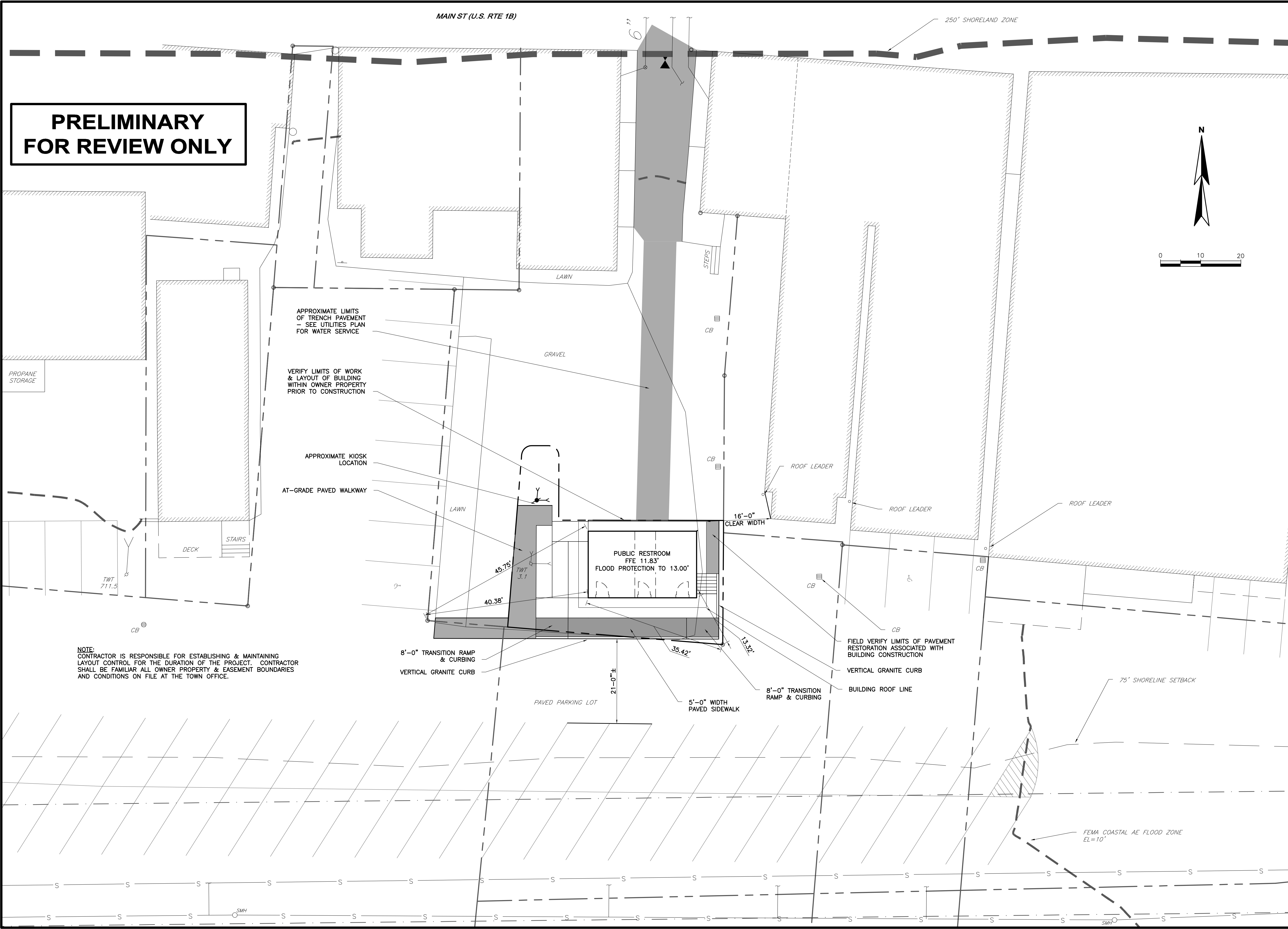
DESIGNED BY: TJP  
CAD COORD: MRL  
CHECKED BY: TJP  
DATE:   
APPROVED BY: JOE  
DATE:   
PROJECT NO: 13116E

SUBMISSIONS/REVISIONS

NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

APP'D

DATE

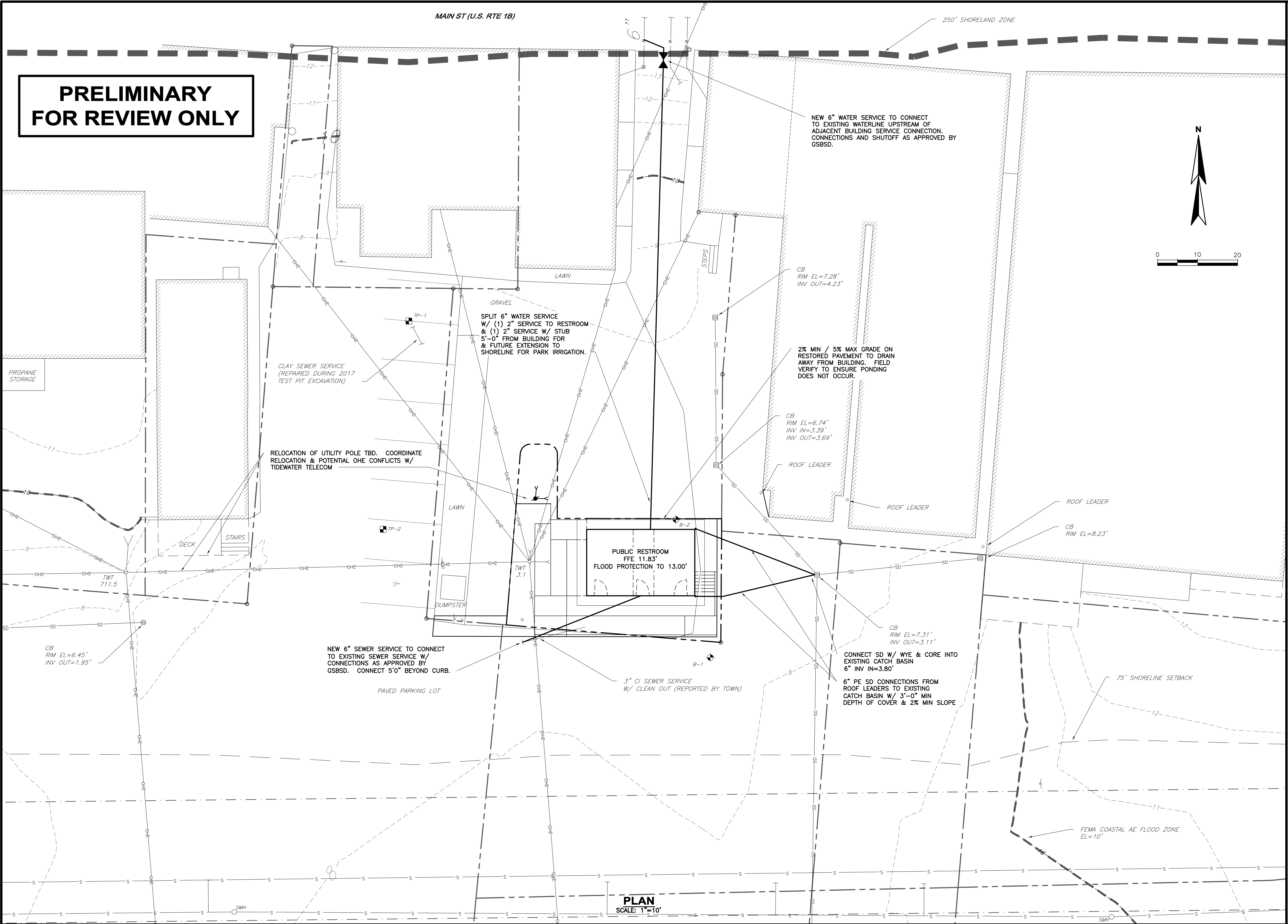


NOTE:  
CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING & MAINTAINING LAYOUT CONTROL FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL BE FAMILIAR ALL OWNER PROPERTY & EASEMENT BOUNDARIES AND CONDITIONS ON FILE AT THE TOWN OFFICE.

SUBMISSIONS/REVISIONS		APP'D	DATE
NO.			
DESIGNED BY: TJP			
CAD. COORD: MRL			
CHECKED BY: TJP			
DATE:			
APPROVED BY: JOE			
DATE:			
PROJECT NO: 13116E			
TOWN OF DAMARISCOTTA WATERFRONT RESTROOM DAMARISCOTTA, MAINE			
SITELAYOUT PLAN			
DRAWING C-3			

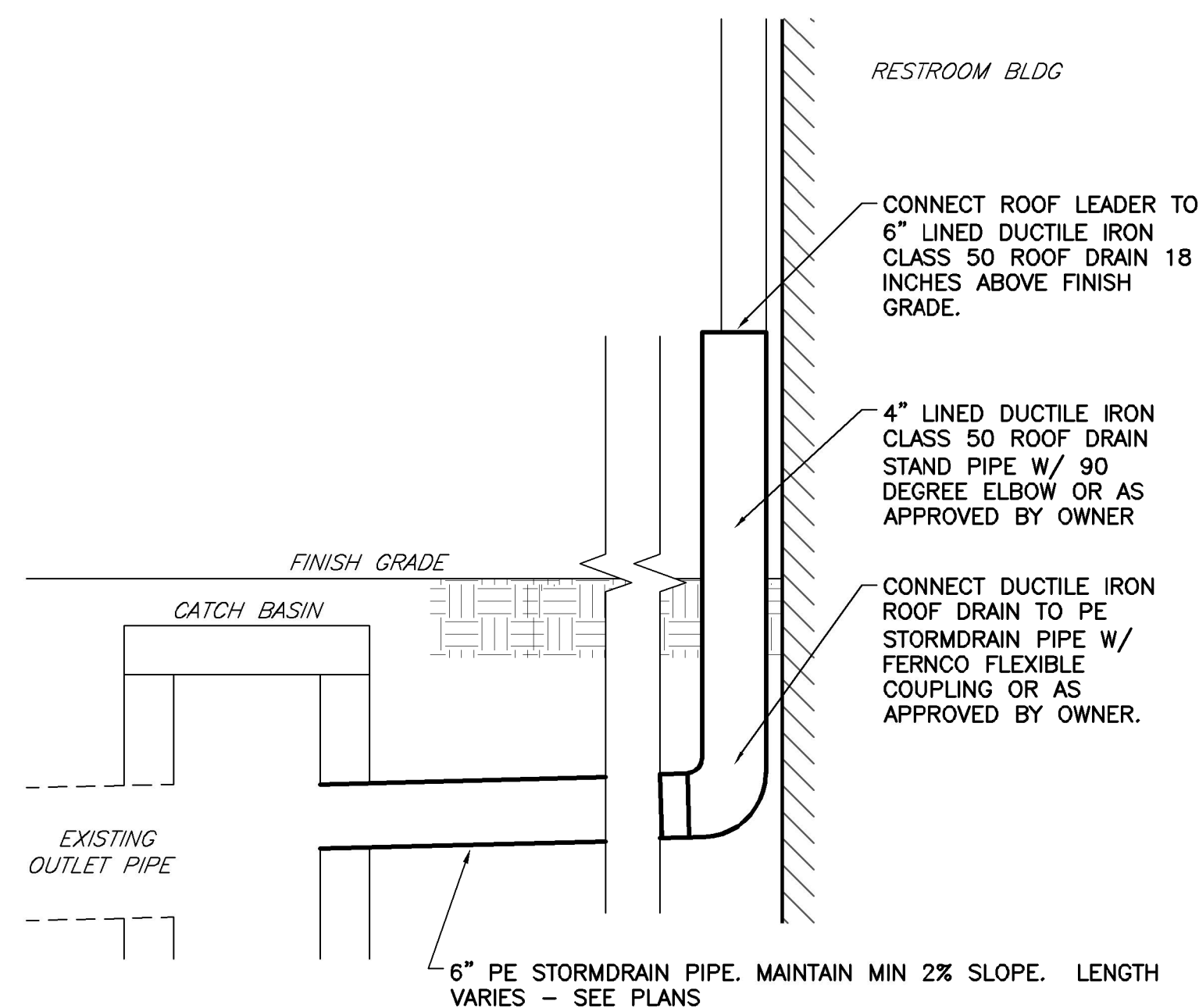
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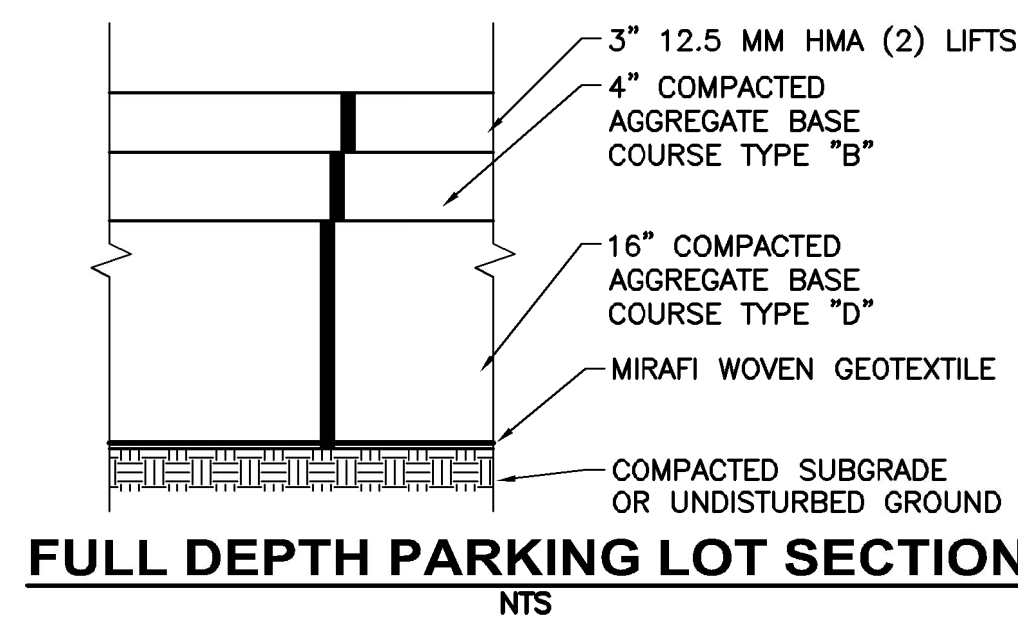


TOWN OF DAMARISCOTTA WATERFRONT RESTROOM DAMARISCOTTA, MAINE		SITING & UTILITIES PLAN	
DRAWING C-4		888.621.8156   www.wright-pierce.com	
DESIGNED BY: TJP CADD COORD: MRL CHECKED BY: JCE DATE: APPROVED BY: TJP DATE: PROJECT NO: 13116E		SUBMISSIONS/REVISIONS	
NO		APP'D	
DATE		DATE	

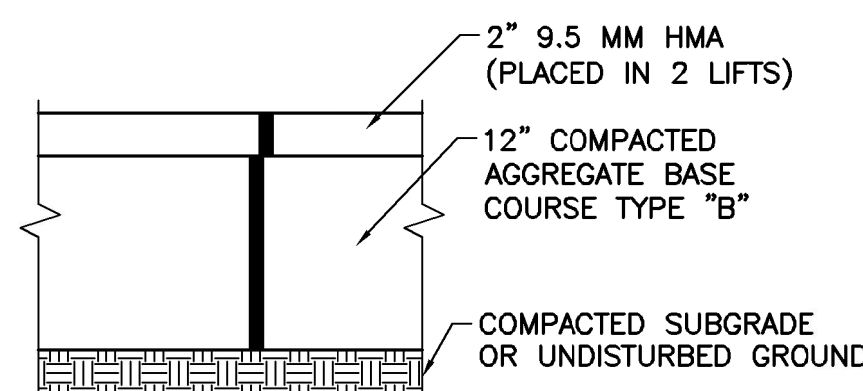




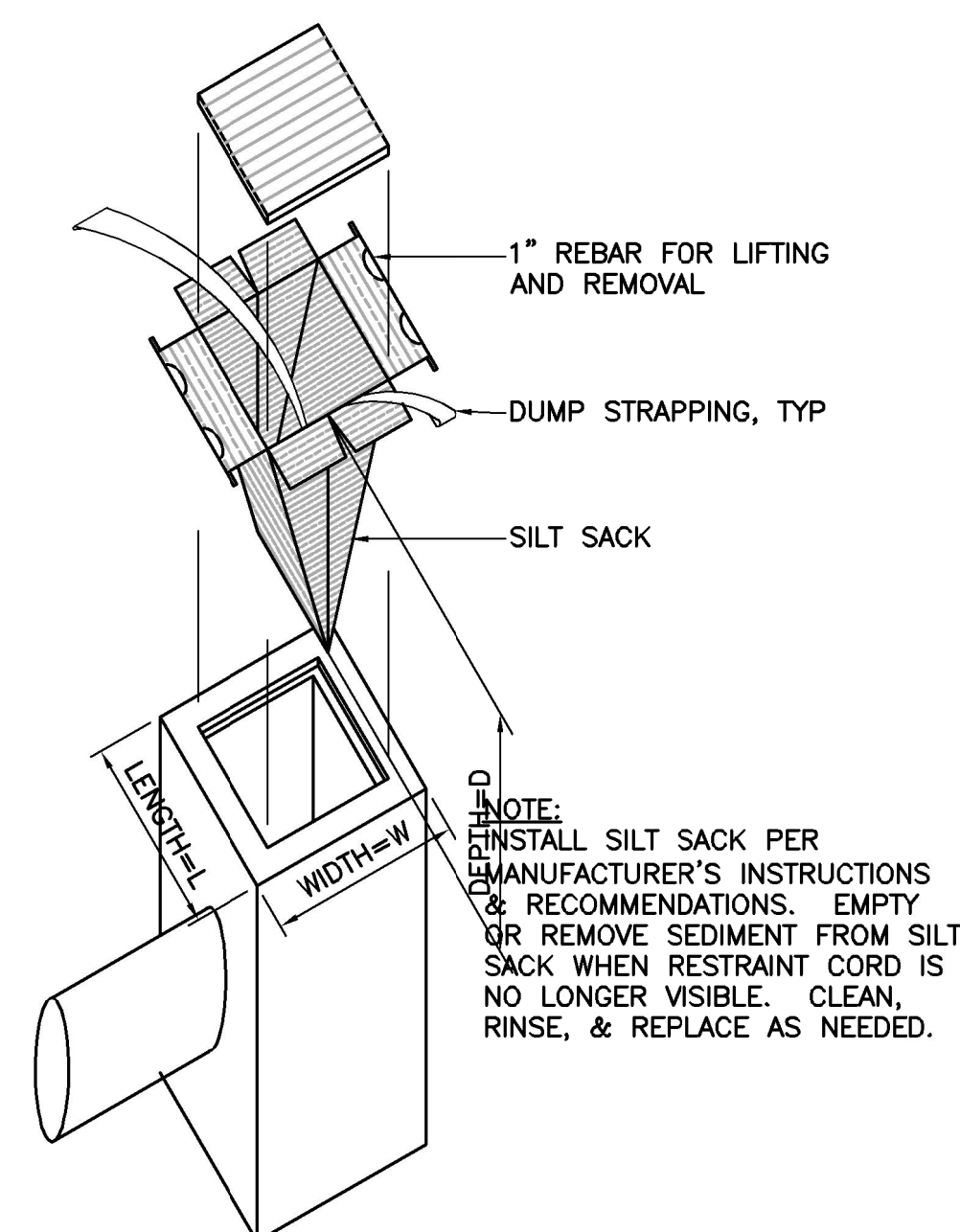
### ROOF DRAIN RECONNECTION DETAIL



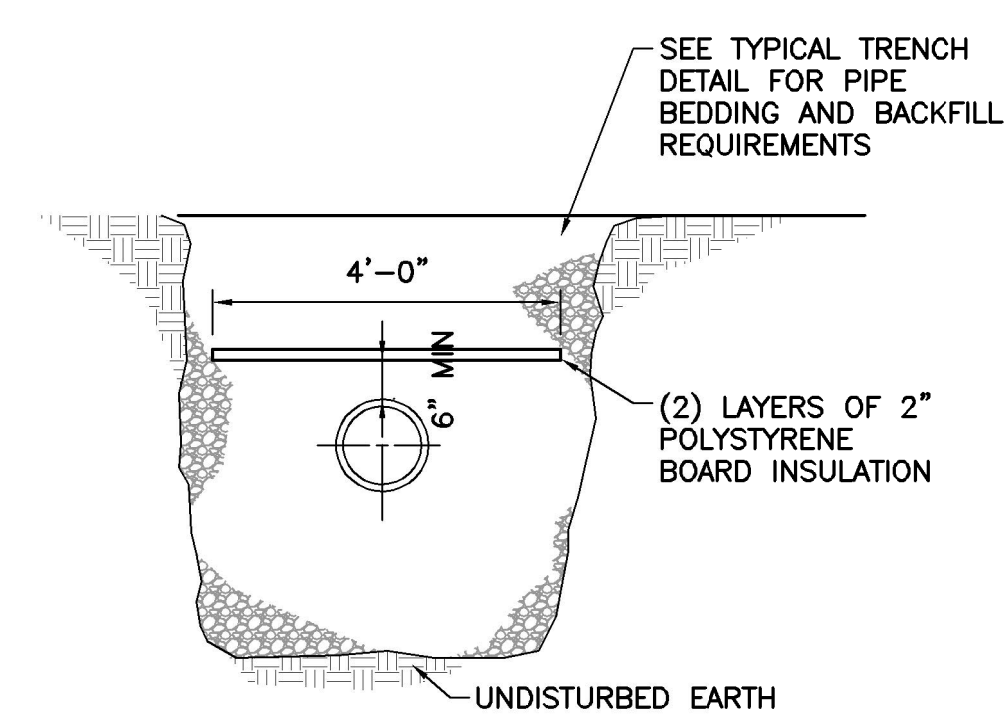
## FULL DEPTH PARKING LOT SECTION



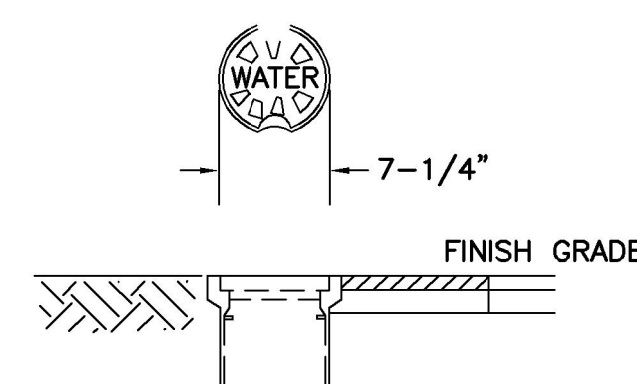
**PAVED SIDEWALK SECTION**  
NTS



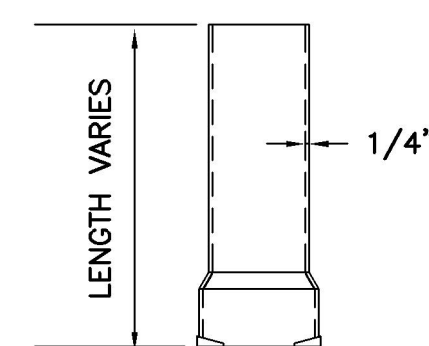
**SILT SACK CATCH BASIN INLET**  
NTS



**TRENCH PIPE INSULATION**  
NTS



## TOP SECTION

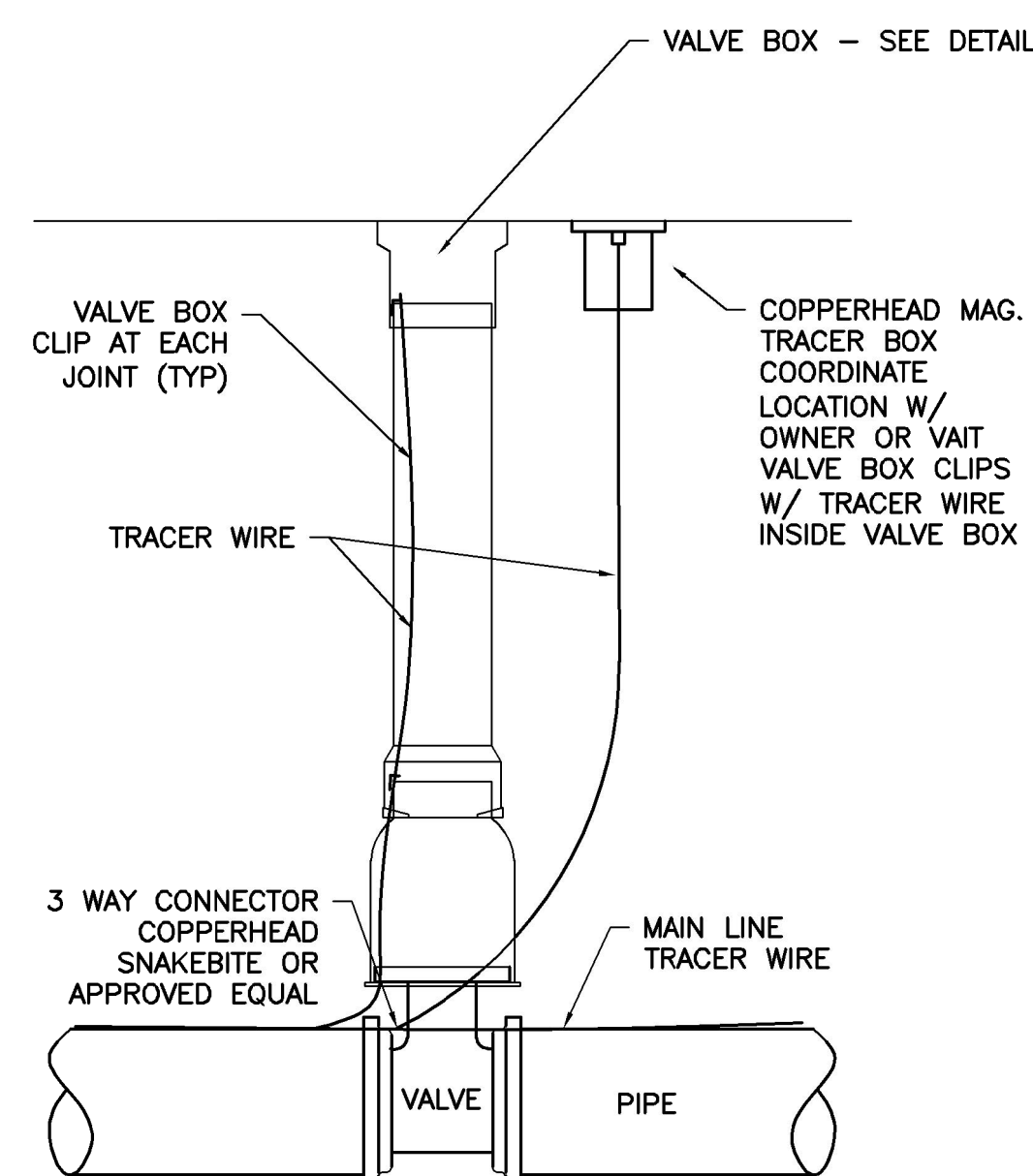


### MID-SECTION

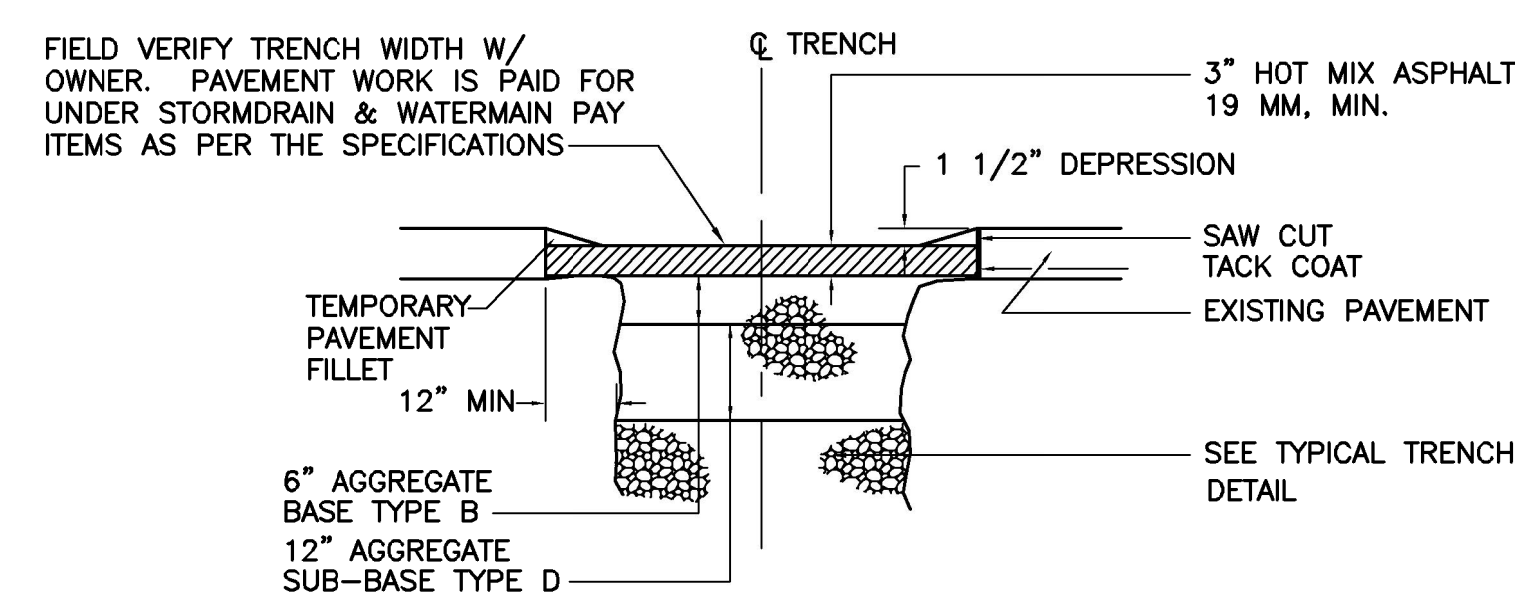


### BOTTOM SECTION

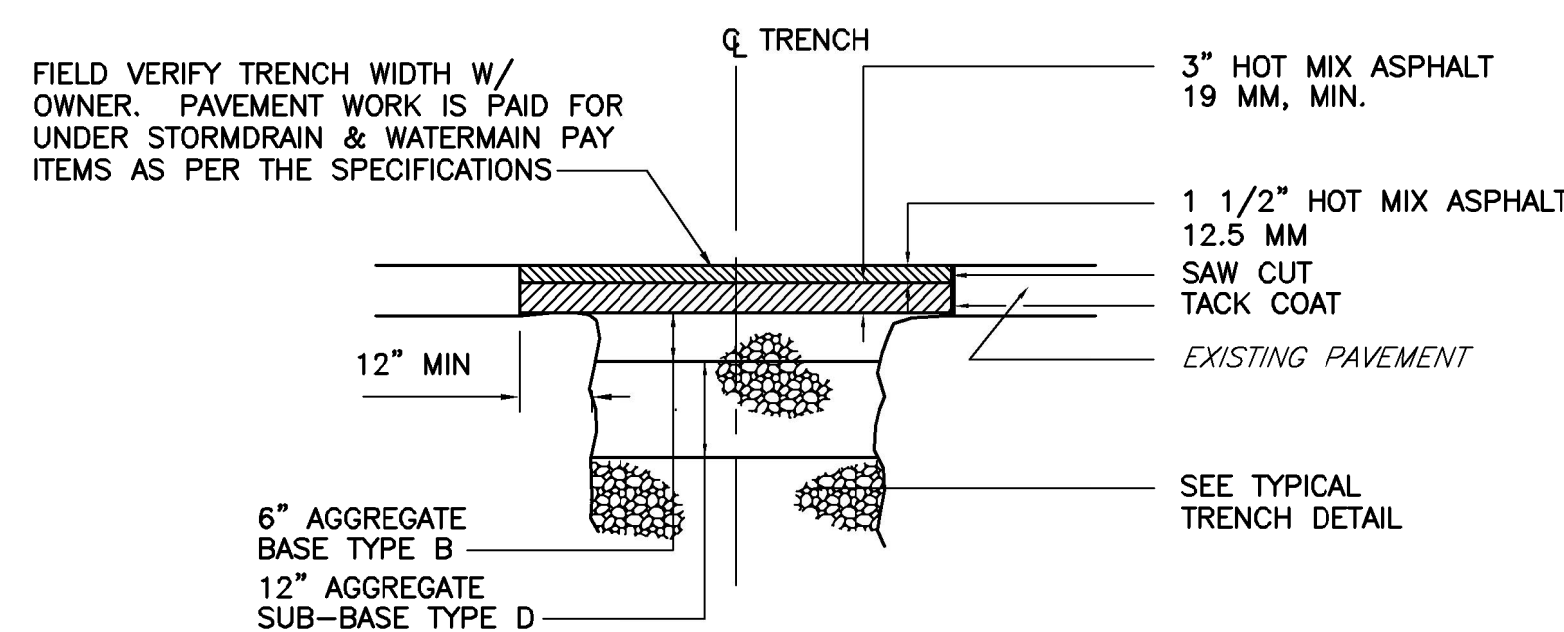
**VALVE BOX**  
NTS



**VALVE BOX**  
NTS

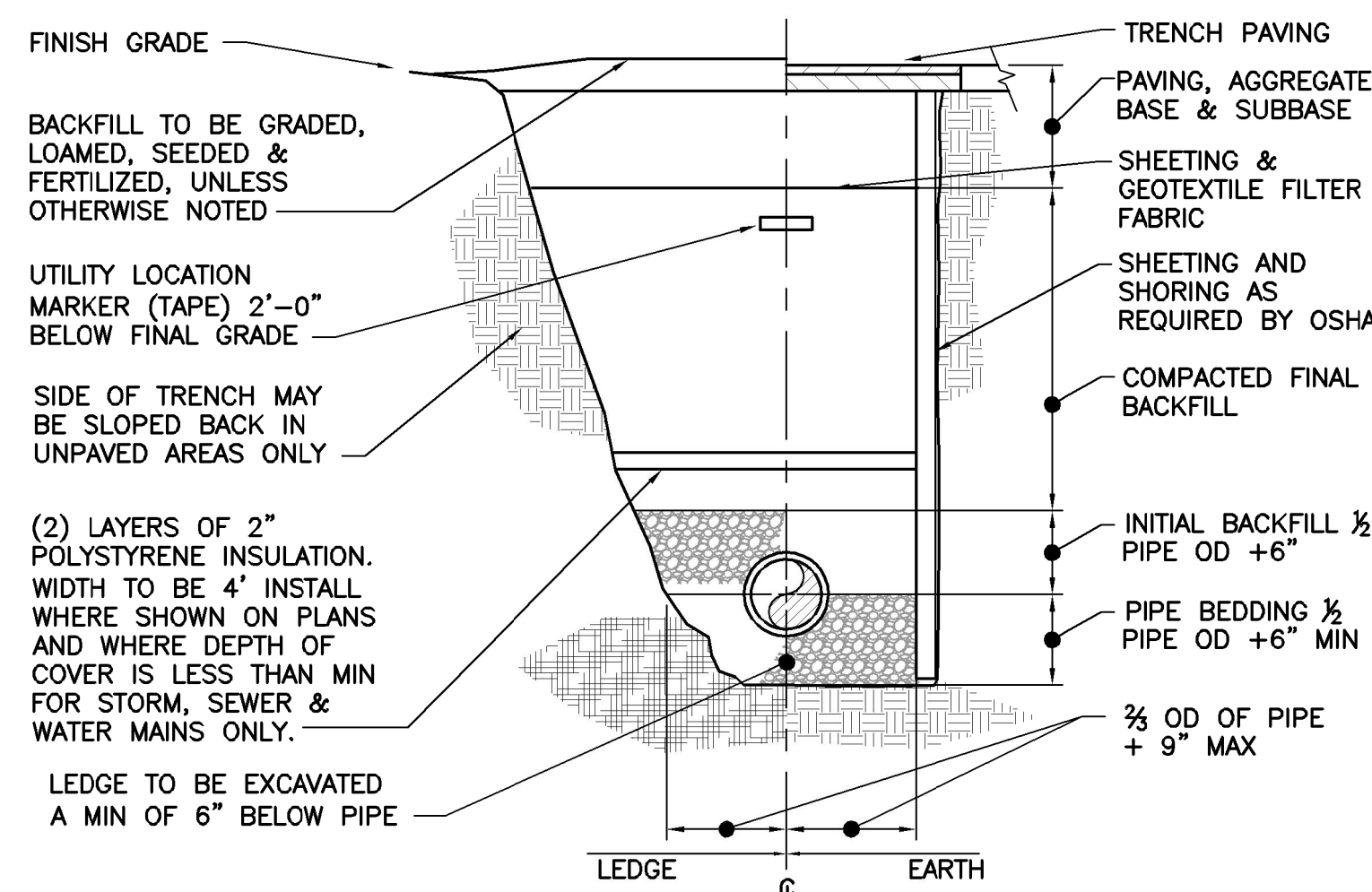


## INITIAL TRENCH PAVING



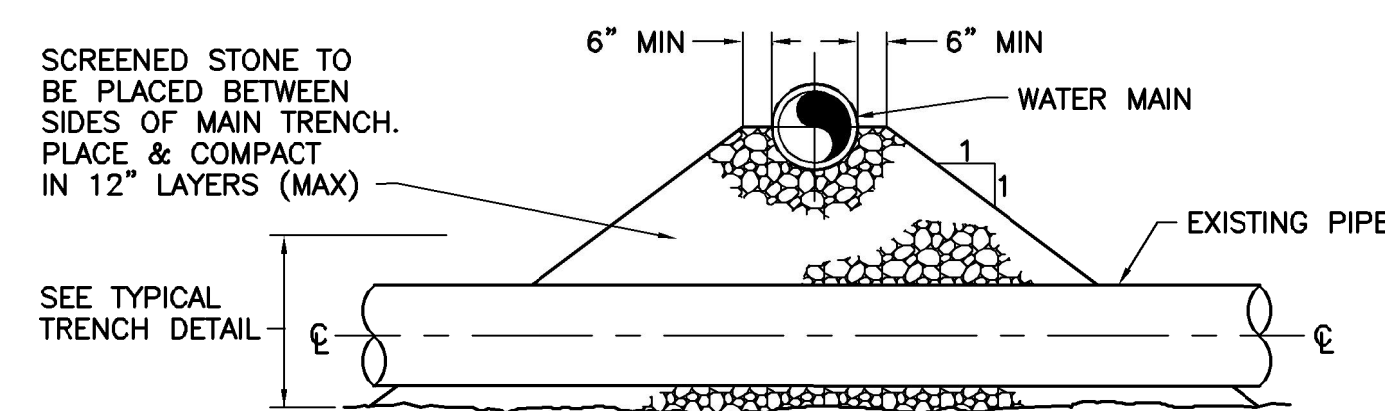
1. INITIAL TRENCH PAVING MAY BE USED AS THE BASE COURSE FOR FINAL PAVING IF IN GOOD REPAIR AND OF THE MINIMUM REQUIRED THICKNESS (3 INCHES OR TO MATCH EXISTING PAVEMENT, WHICHEVER IS GREATER).
2. 1 1/2" ROADWAY SURFACE WEARING COURSE FOR PROJECT AS PART OF BID ALTERNATE "B" SUPERCEDES 1 1/2" HMA OVERLAY THIS DETAIL,

## FINAL TRENCH PAVING



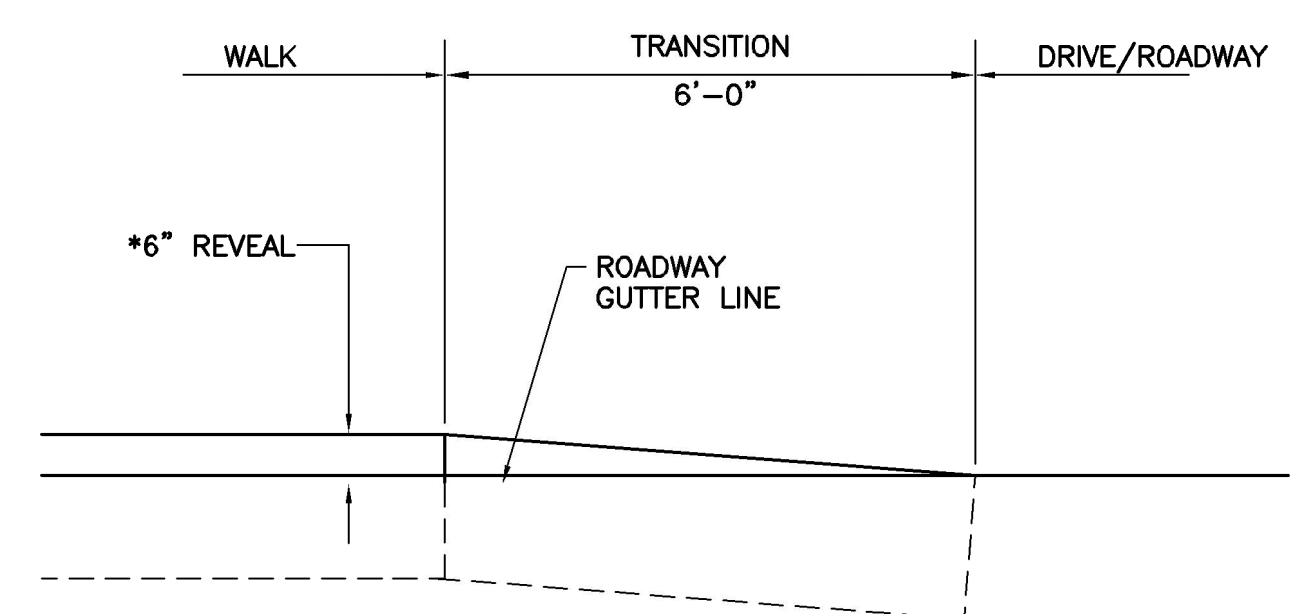
- NOTES:
1. ALL EXCAVATION MUST MEET OSHA STANDARDS.
  2. INSTALL 3 FOOT LONG IMPERVIOUS MATERIAL DAM IN BEDDING/INITIAL BACKFILL MATERIAL EVERY 100' AND WHERE SHOWN ON PLANS TO PREVENT TRENCH GROUNDWATER FROM BEING CHANNLED ALONG BEDDING/INITIAL BACKFILL.
  3. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL REQUIREMENTS.

## PIPE TRENCH



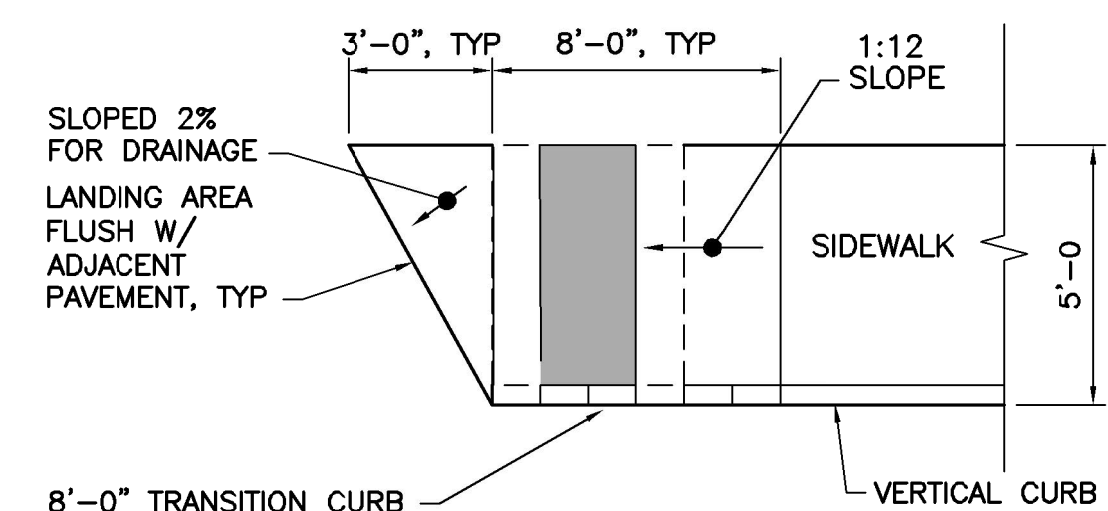
- NOTE:  
JOINTS ON EACH PIPE TO BE AS FAR FROM  
INTERSECTION AS POSSIBLE

### PIPE CROSSING DETAIL



**GRANITE TRANSITION CURB**  
NTS

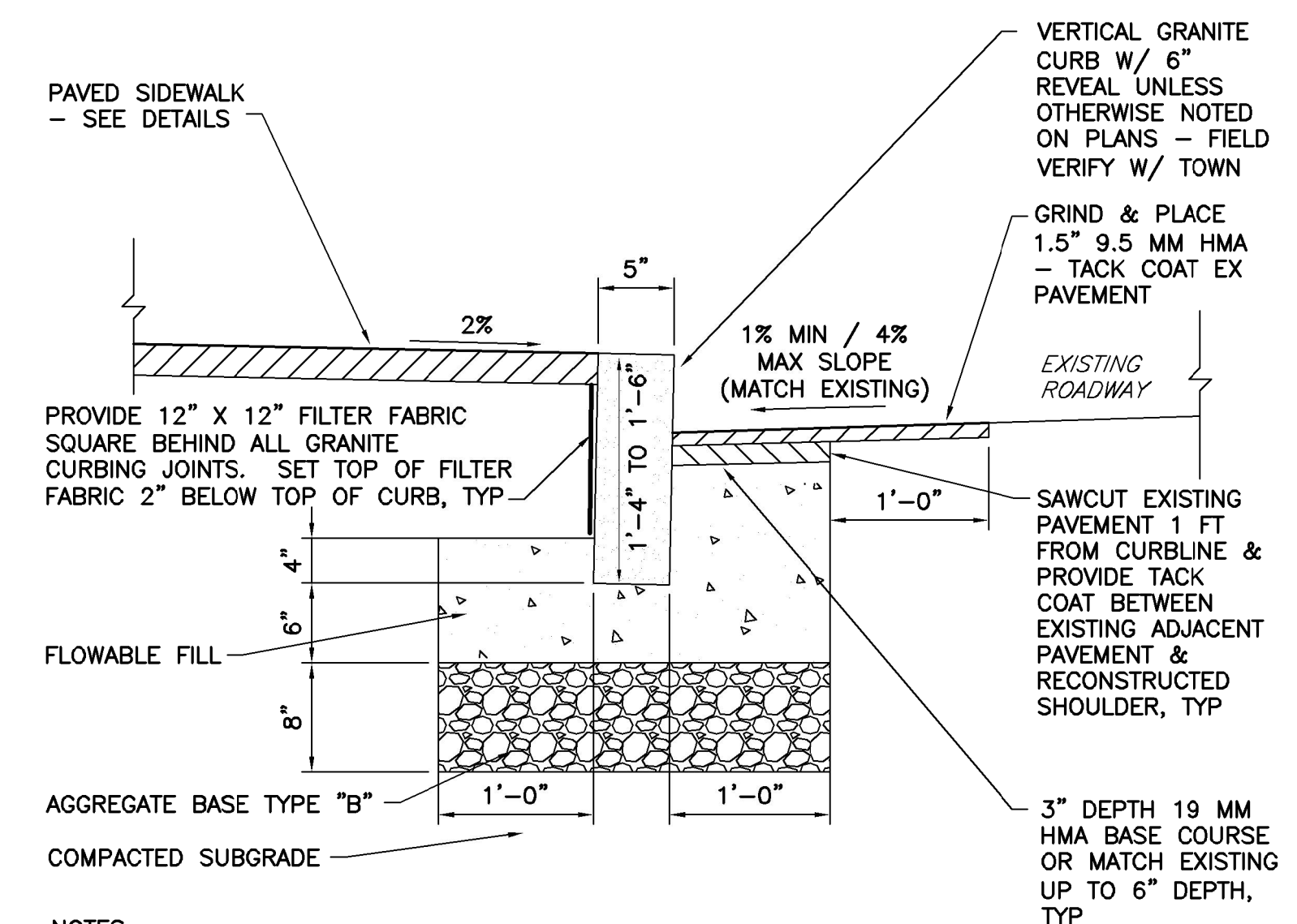
**PRELIMINARY  
FOR REVIEW ONLY**



## TYPE A

- NOTE:**
1. RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
  2. THE MAXIMUM RUNNING SLOPE OF ANY TRANSITION RAMP IS 12:1. THE MAXIMUM CROSS SLOPE IS 2%. THE SLOPE OF THE LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION.
  3. TRANSITIONS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. ROADWAY SHOULDER SLOPES ADJOINING TRANSITION RAMPS SHALL BE A MAXIMUM OF 5% (FULL WIDTH) FOR A DISTANCE OF 600 MM (2 FT) FROM THE ROADWAY CURBLINE.
  4. INTERCEPT DRAINAGE ALONG THE CURB IN ADVANCE OF TRANSITION RAMPS OF LANDINGS, MANHOLES, CATCH BASINS, ETC. SHALL NOT BE LOCATED IN, OR AT THE BASE OF, TRANSITION RAMPS OR LANDINGS.
  5. THE BOTTOM OF THE TRANSITION RAMP OR LANDING, EXCLUSIVE OF THE FLARED SIDES, SHALL BE WHOLLY CONTAINED WITHIN THE CROSSWALK MARKINGS.
  6. PROVIDE PAVED TRANSITION RAMP AT END OF ALL SIDEWALK SEGMENTS.
  7. IF CONSTRAINED ON TWO OR MORE SIDES, LEVEL TURN SPACE SHALL BE 4'-0" MIN. BY 5'-0" MIN. THE 5'-0" MIN. DIMENSION SHALL BE IN THE DIRECTION PARALLEL TO THE CURBLINE.

**TRANSITION RAMP**  
NTS



- NOTES:**  
1. CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO CREATE DEPRESSIONS IN PAVEMENT THAT RESULT IN PUDDLING ALONG CURBLINE.

**TYPICAL SECTION - SIDEWALK CURBING**



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TOWN OF DAMARISCOTTA  
WATERFRONT RESTROOMS

Damariscotta, Maine

REVISIONS:	DATE:

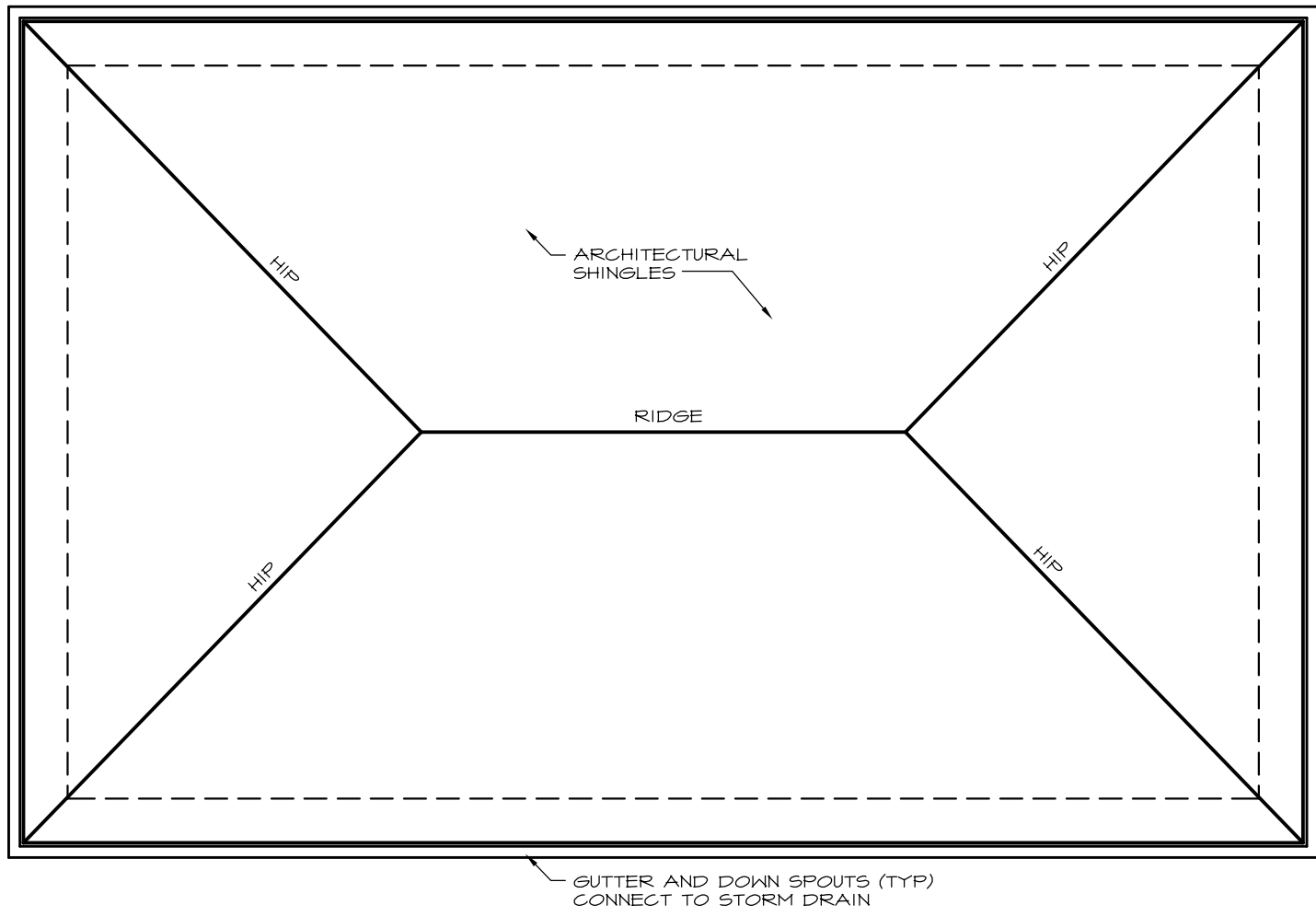
DRAWING TITLE:  
BUILDING  
PLANS

DATE:  
8/20/18 - PROGRESS

SCALE:  
AS NOTED

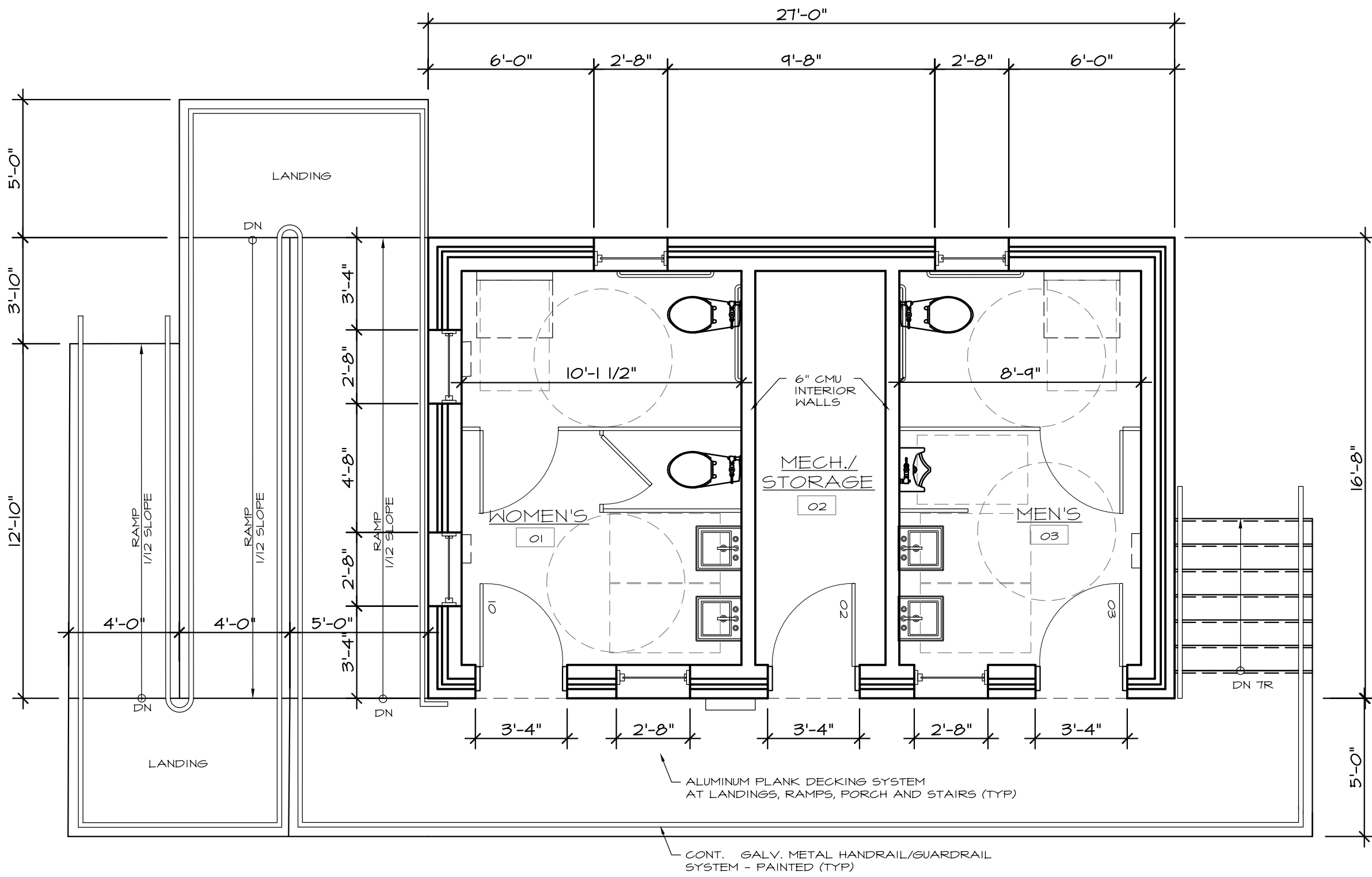
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A-100



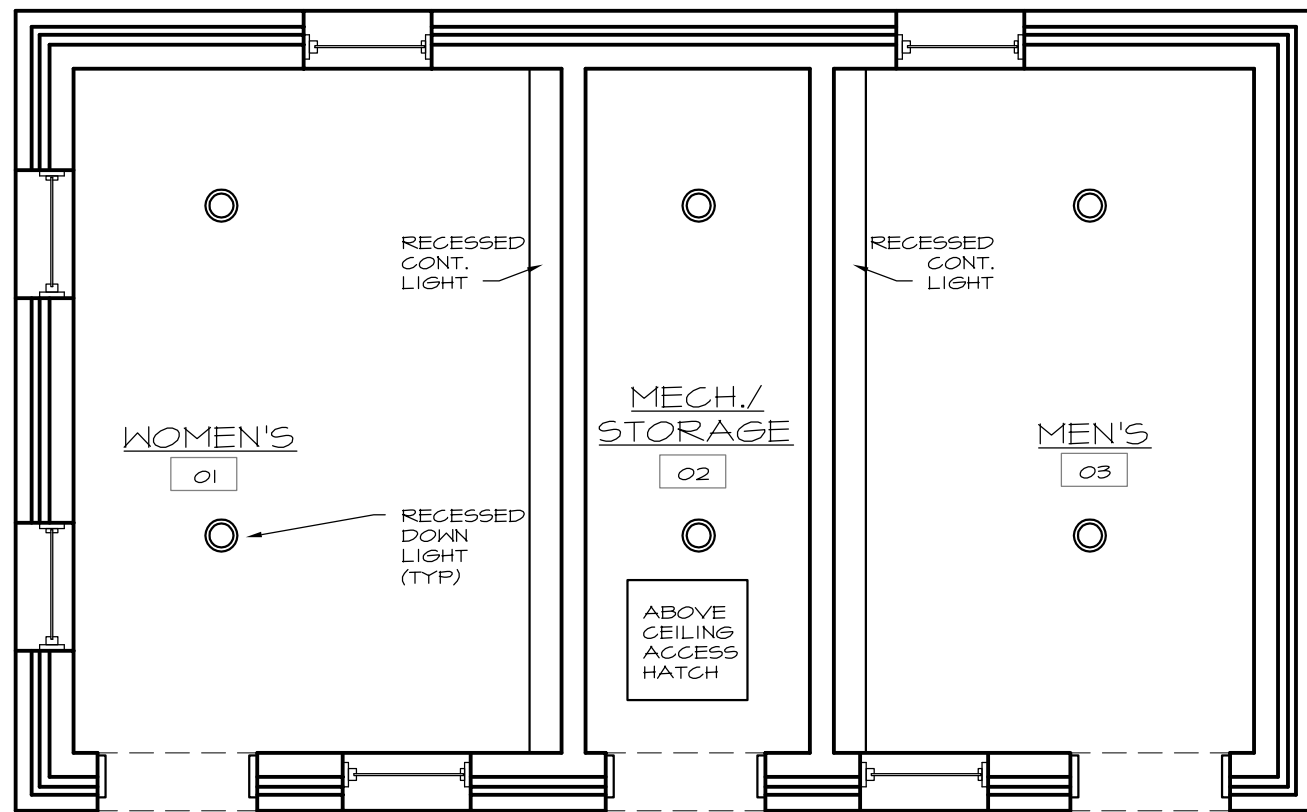
ROOF PLAN

1/4" = 1'-0"



FLOOR PLAN

1/4" = 1'-0"



REFLECTED CEILING PLAN

1/4" = 1'-0"



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TOWN OF DAMARISCOTTA  
WATERFRONT RESTROOMS

Damariscotta, Maine

REVISIONS:	DATE:

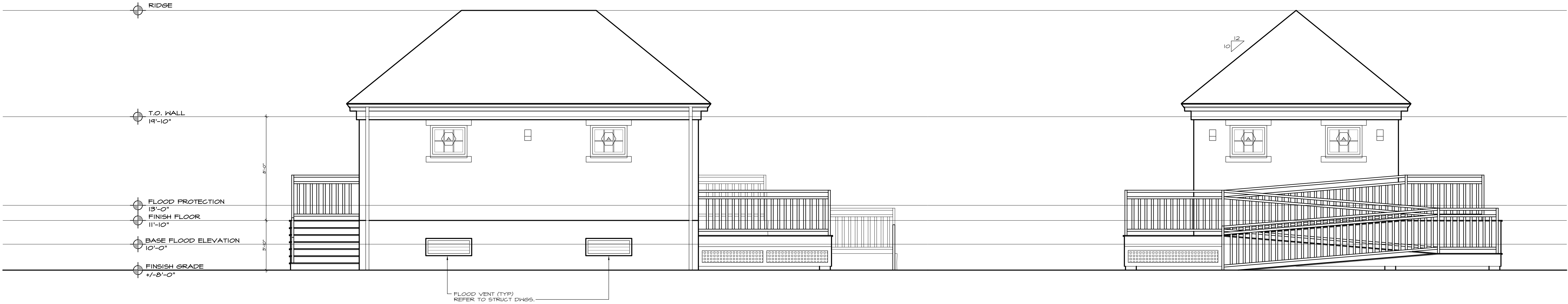
DRAWING TITLE:  
EXTERIOR  
ELEVATIONS

DATE:  
08/17/18 - PROGRESS

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

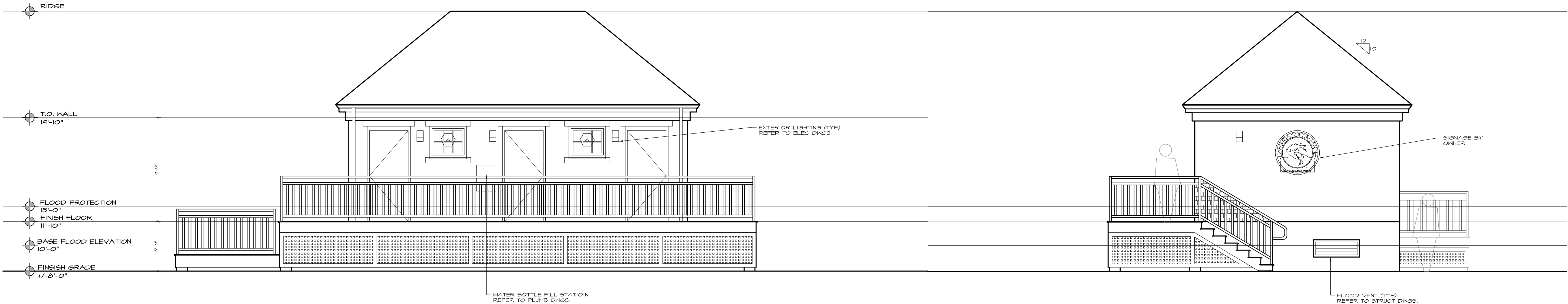
DRAWING NUMBER:

A-200



NORTH ELEVATION

1/4" = 1'-0"

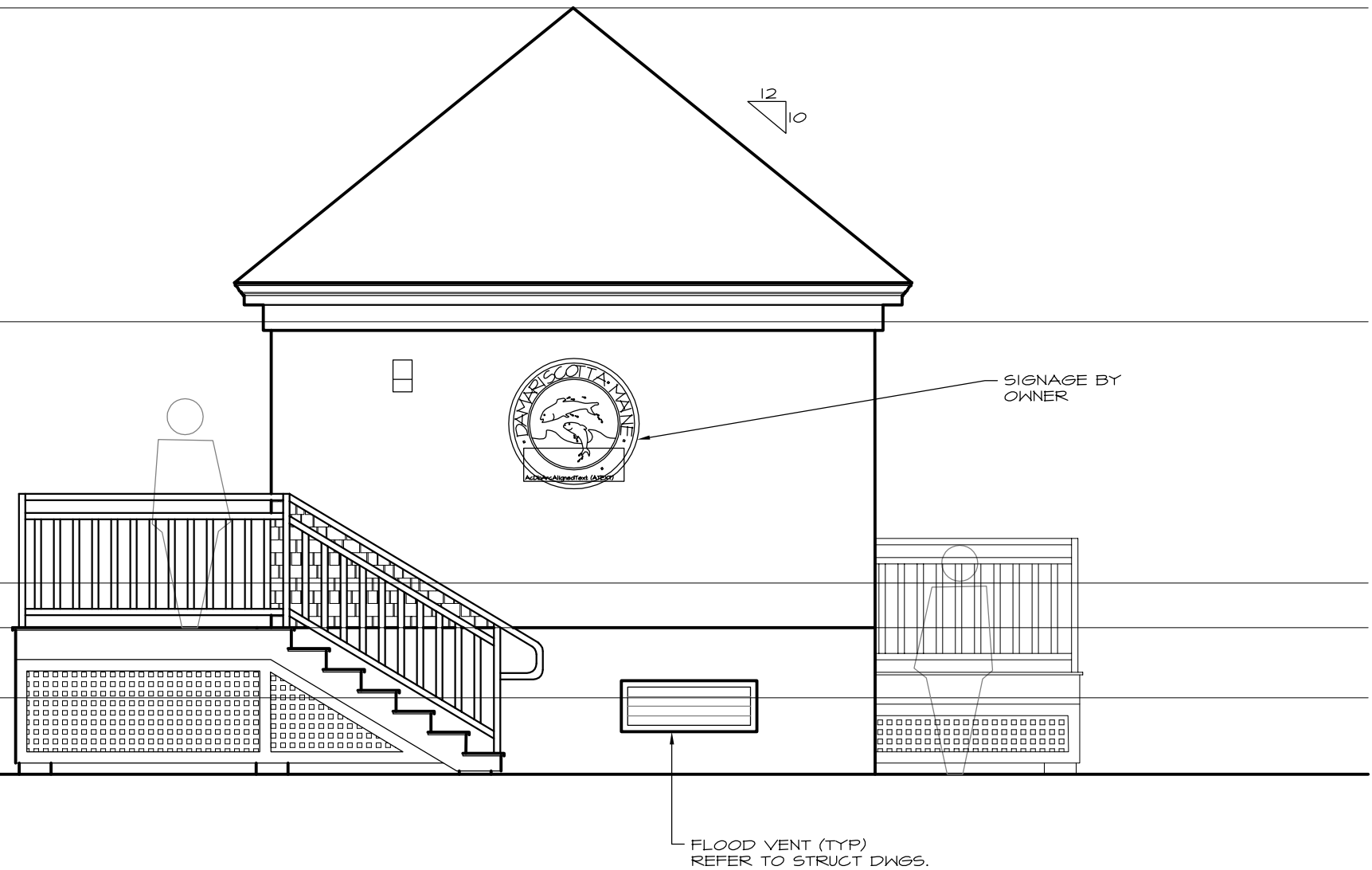


SOUTH ELEVATION

1/4" = 1'-0"

WEST ELEVATION

1/4" = 1'-0"

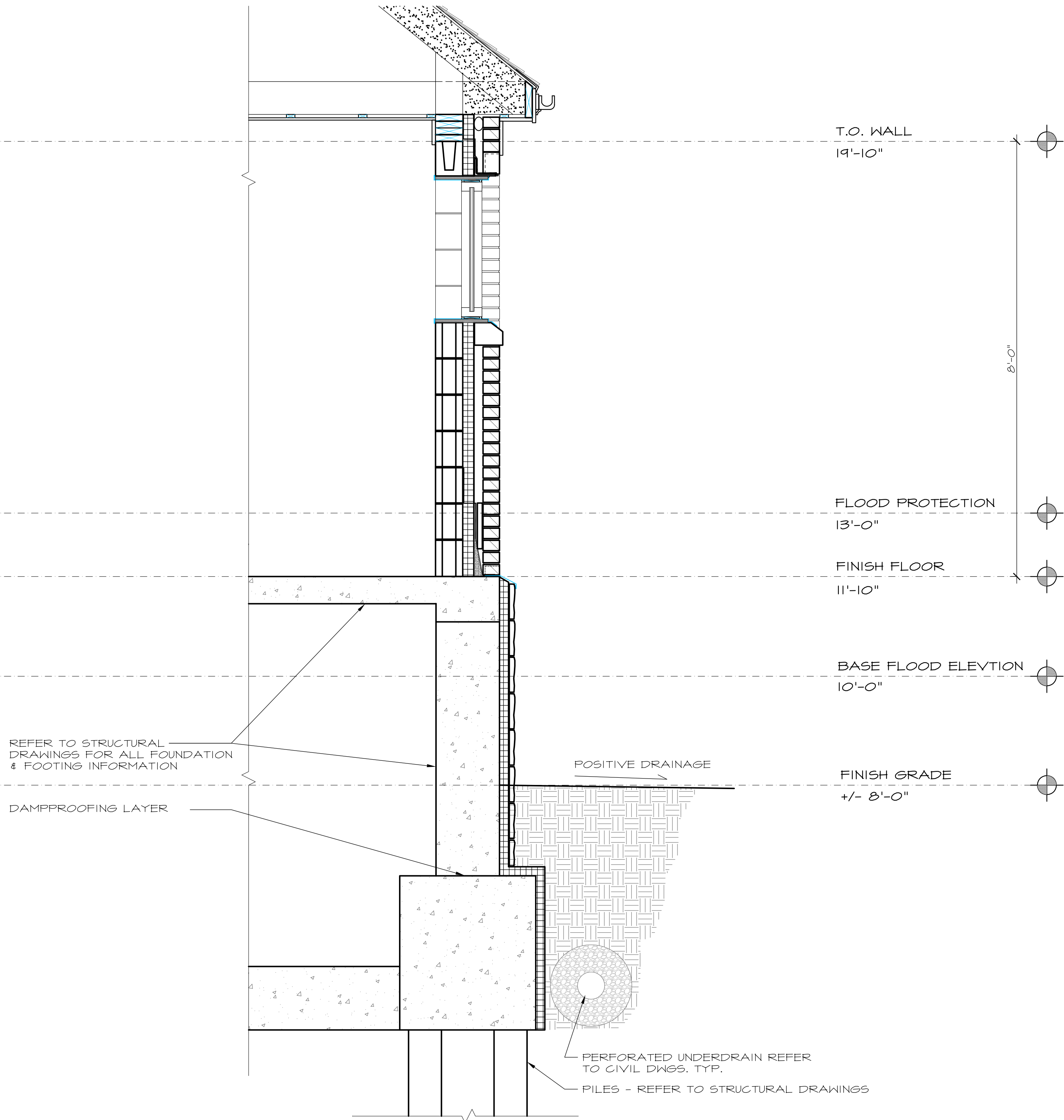


EAST ELEVATION

1/4" = 1'-0"

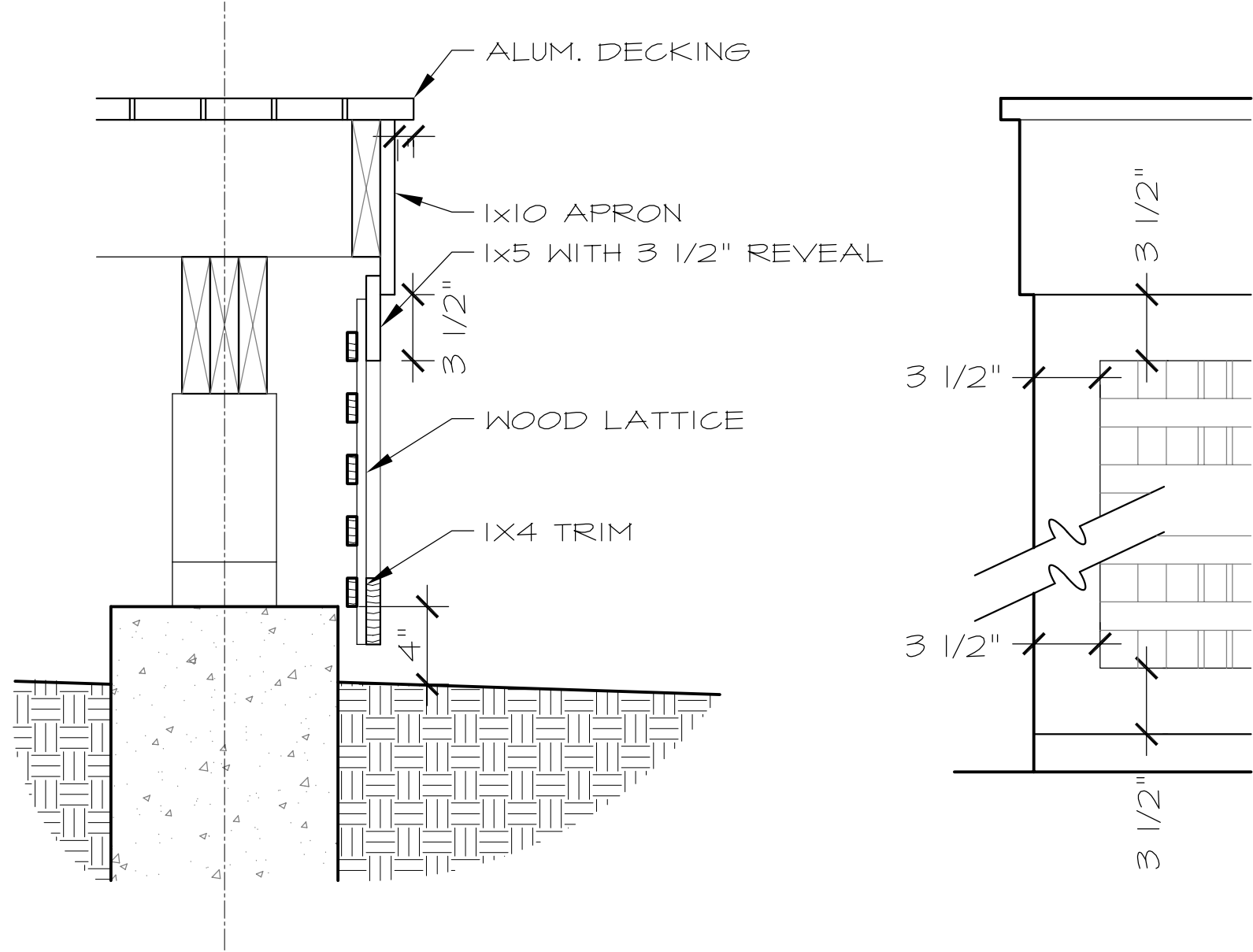


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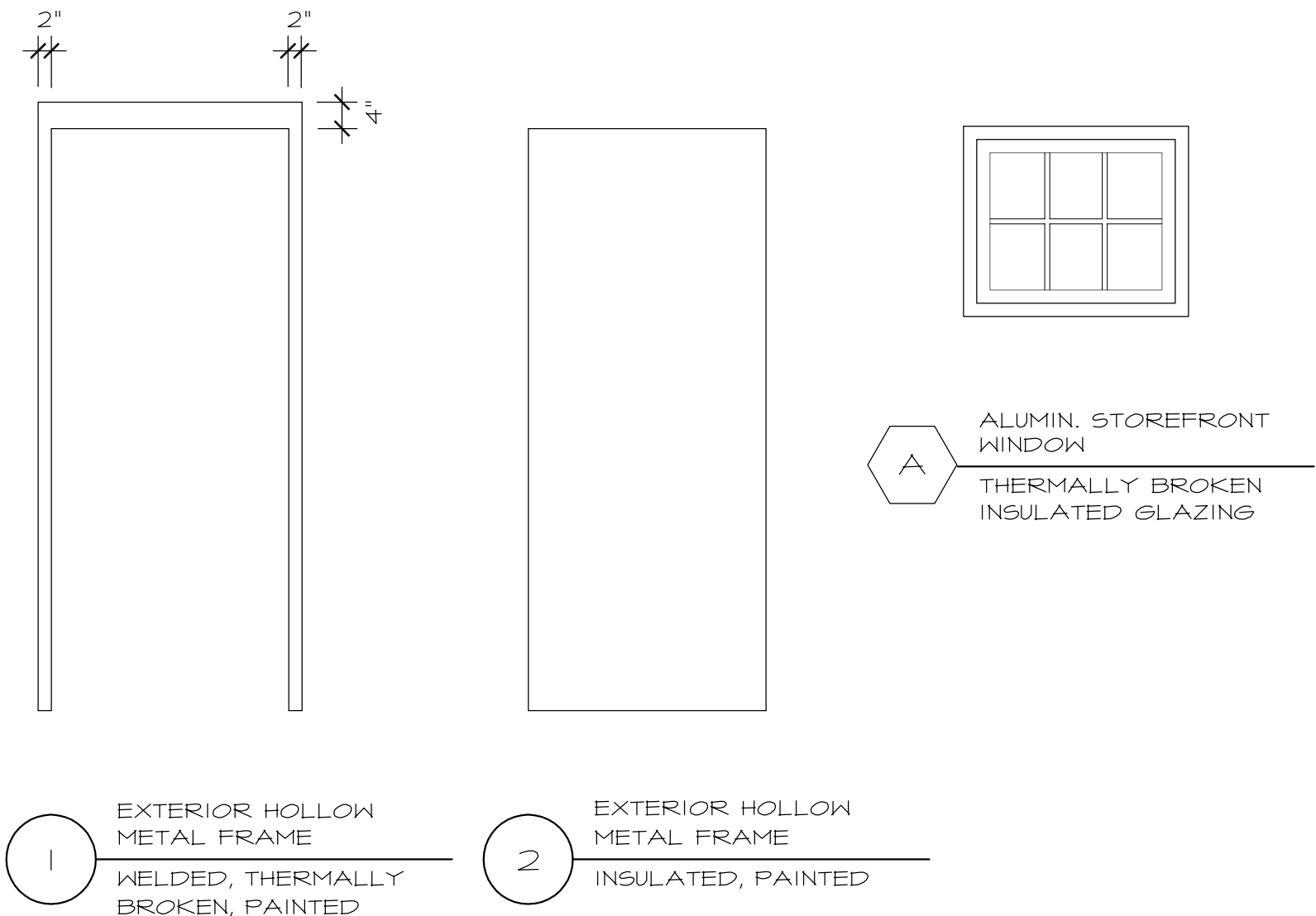


A-A TYP. WALL SECTION

3/4" = 1'-0"



1 TYP. PORCH/RAMP EDGE CONDITION 1 1/2" = 1'-0"



2 DOOR/WINDOW ELEVATIONS

1/2" = 1'-0"

GENERAL BUILDING SPECIFICATIONS	
NOTE 1	TYPICAL EXTERIOR WALL
3 3/4" BRICK VENEER WITH CAST STONE SILLS/HDRS OVER 2" AIR SPACE OVER 2 1/2" RIGID CAVITY INSULATION R-15 OVER AIR/VAPOR SELF ADHERING MEMBRANE OVER 6" CMU BLOCK FOUNDATION WALL: DIRECT APPLIED THIN SET NATURAL STONE VENEER SYSTEM OVER EXTERIOR GRADE CEMENT BOARD OVER 2" RIGID INSULATION OVER BITUMINOUS DAMPPROOFING	
NOTE 2	EXTERIOR EAVE TRIM
PVC TRIM, WHITE COLOR (UNPAINTED) CONCEAL ALL FASTENERS WITH PVC MANUF. PLUGS PROVIDE FASTENING AS REQUIRED BY MANUF. MITER ALL CORNERS, SEAL END CUTS OF ALL PVC WITH WHITE PAINT WHERE NOT ABLE TO HAVE A MITER CUT. PVC CONT. GUTTER SYSTEM AT EACH EAVE	
NOTE 3	TYPICAL ROOF
ARCHITECTURAL GRADE FIBERGLASS SHINGLES OVER ROOFING UNDERLAYMENT OVER 5/8" FULL COVERAGE BITUMINOUS SELF-ADHERING FLASHING, INSULATION BETWEEN ROOFING JOISTS AND AT EAVES TO BE CLOSED CELL SPRAY FOAM R-38	
NOTE 4	TYP. PORCH/RAMP/STAIR DECKING
ALUMINUM PLANK DECKING COMMERCIAL GRADE: VERSADECK C-60 WITH COMFORT COAT. STANDARD COLOR BY ARCHITECT.	
NOTE 5	TYP. RAILING/HANDRAILS RAILING COMPONENTS
GALVANIZED PAINTED METAL PIPE STYLE	
NOTE 6	TYP. LATTICE AND TRIM
MANUFACTURER: WOODWAY STYLE: PRIVACY SPACING PATTERN: SQUARE MATERIAL: RED CEDAR GRADE: 1/2" THICK HEAVY DUTY FINISH: CABOT MANUF.: 10241 PRODUCT #: 10241 DESCRIPTION: WATER BASED BLEACHING STAIN, SPRAY FINISH - BOTH SIDES, FIELD APPLIED	
ALL TRIM TO BE PVC	

GENERAL BUILDING SPECIFICATIONS

NO.	ROOM NUMBER/DESCRIPTION	TYPE	SIZE (W X T'-0" X I 3/4")	FRAME TYPE	HARDWARE SET	RATING	REMARKS
01	01 / WOMENS	2	3'-0"	I	SET 1		
02	02 / MECH/STORAGE	2	3'-0"	I	SET 2		
03	100 / MENS	2	3'-0"	I	SET 1		

SET 1:  
CONTINUOUS HINGE  
PUSH PULL PLATES  
DEAD BOLT LOCK WITH INTERCHANGEABLE CORE  
SILENCERS  
CLOSER  
KICK PLATES EACH SIDE  
ADA ALUMINUM SILL THRESHOLD  
WEATHER STRIPPING

SET 2:  
CONTINUOUS HINGE  
PUSH PULL PLATES  
STORE ROOM LOCKSET LEVER HANDLE WITH INTERCHANGEABLE CORE  
SILENCERS  
CLOSER  
KICK PLATE EACH SIDE  
ADA ALUMINUM SILL THRESHOLD  
WEATHER STRIPPING

3 DOOR SCHEDULE

NO.	ROOM NUMBER/DESCRIPTION	FLOOR	WALL	WALL BASE	CEILING	REMARKS
01	01 / WOMENS	EPOXY	EPOXY PAINT	INTEGRAL EPOXY	GWB- PAINT	
02	02 / MECH/STORAGE	EPOXY	EPOXY PAINT	INTEGRAL EPOXY	GWB- PAINT	
03	100 / MENS	EPOXY	EPOXY PAINT	INTEGRAL EPOXY	GWB- PAINT	

4 FINISH SCHEDULE

REVISIONS:	DATE:

DRAWING TITLE:

DETAILS AND SCHEDULES

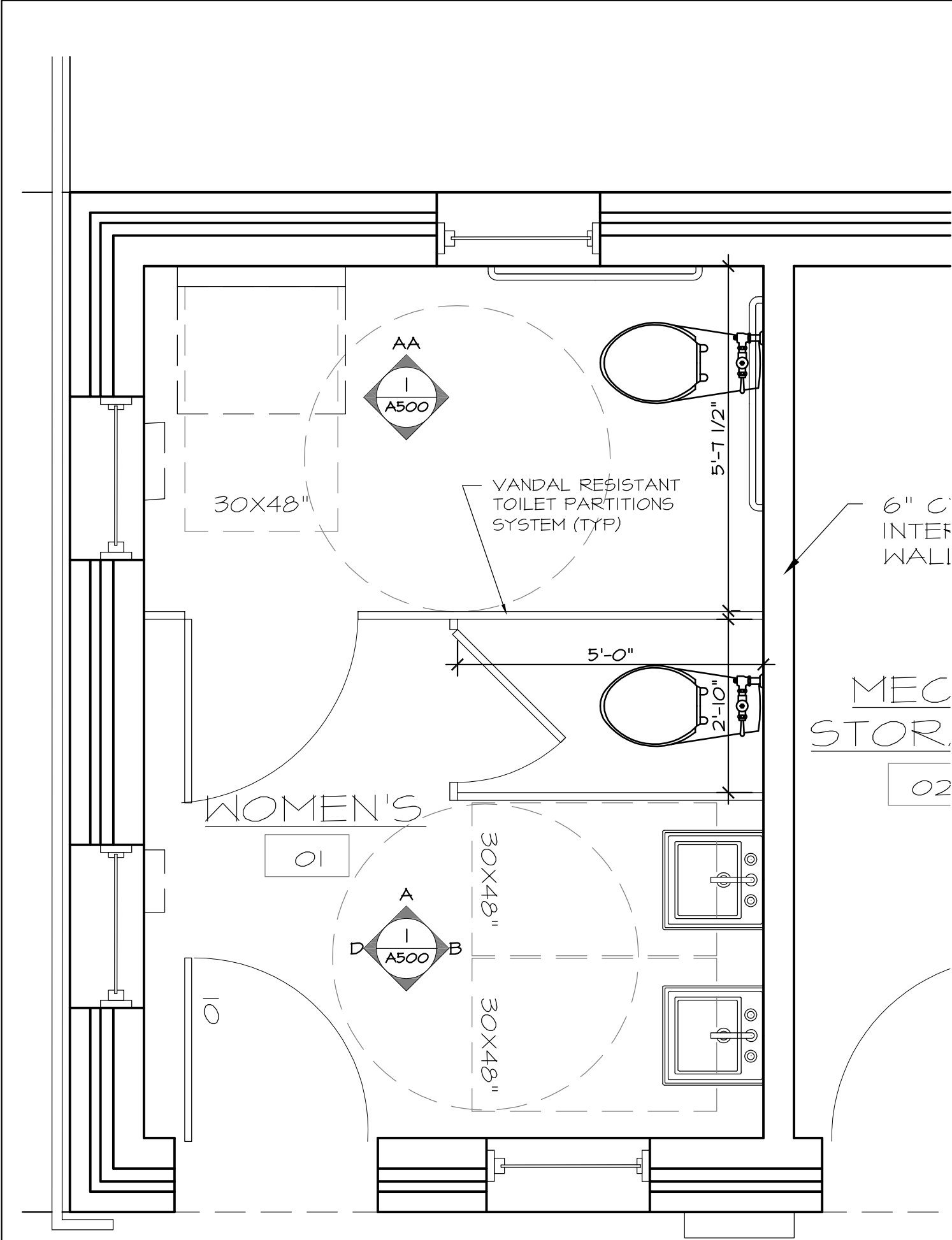
DATE:  
08/20/18 - PROGRESS

SCALE:  
AS NOTED

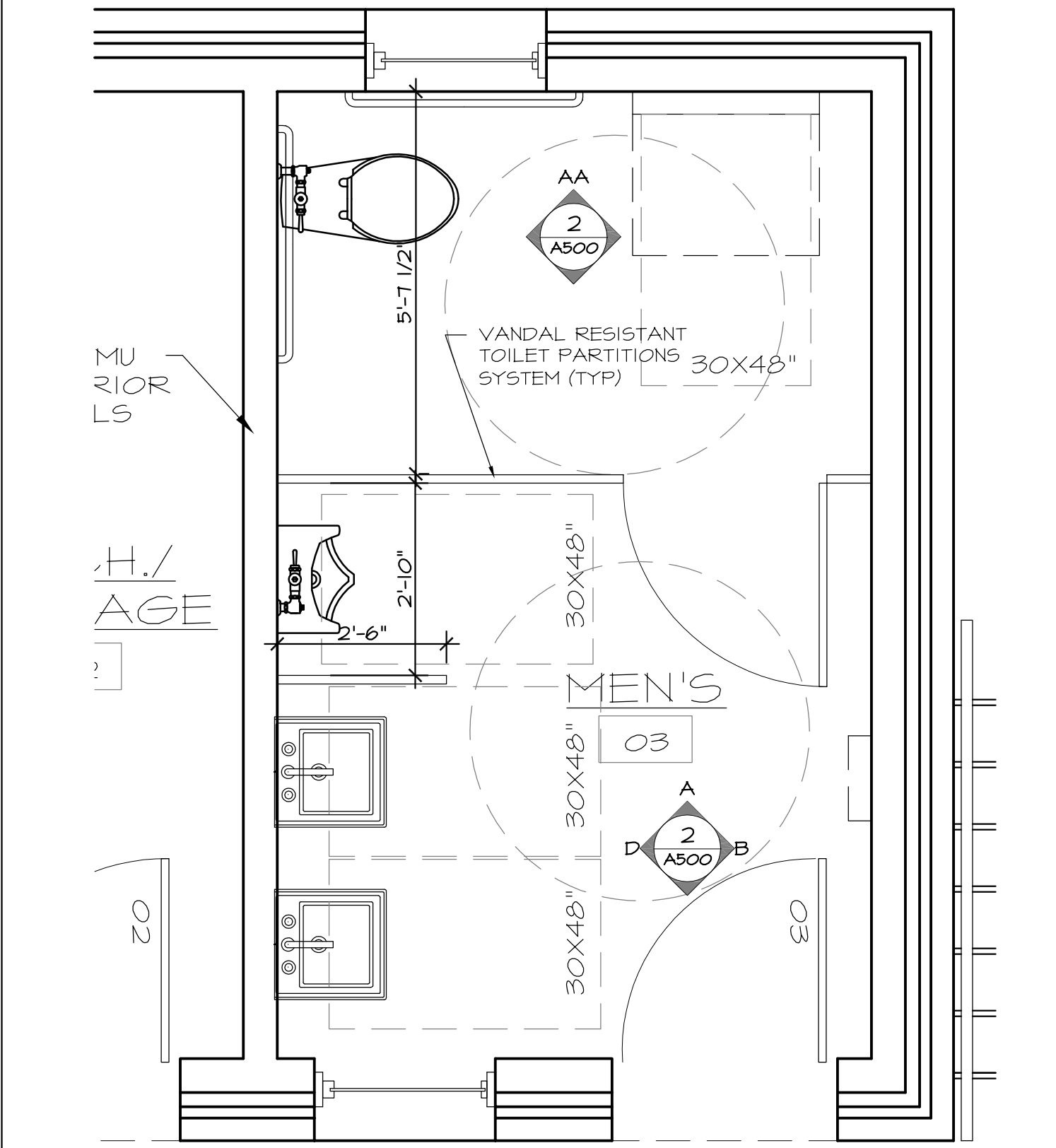
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A-300

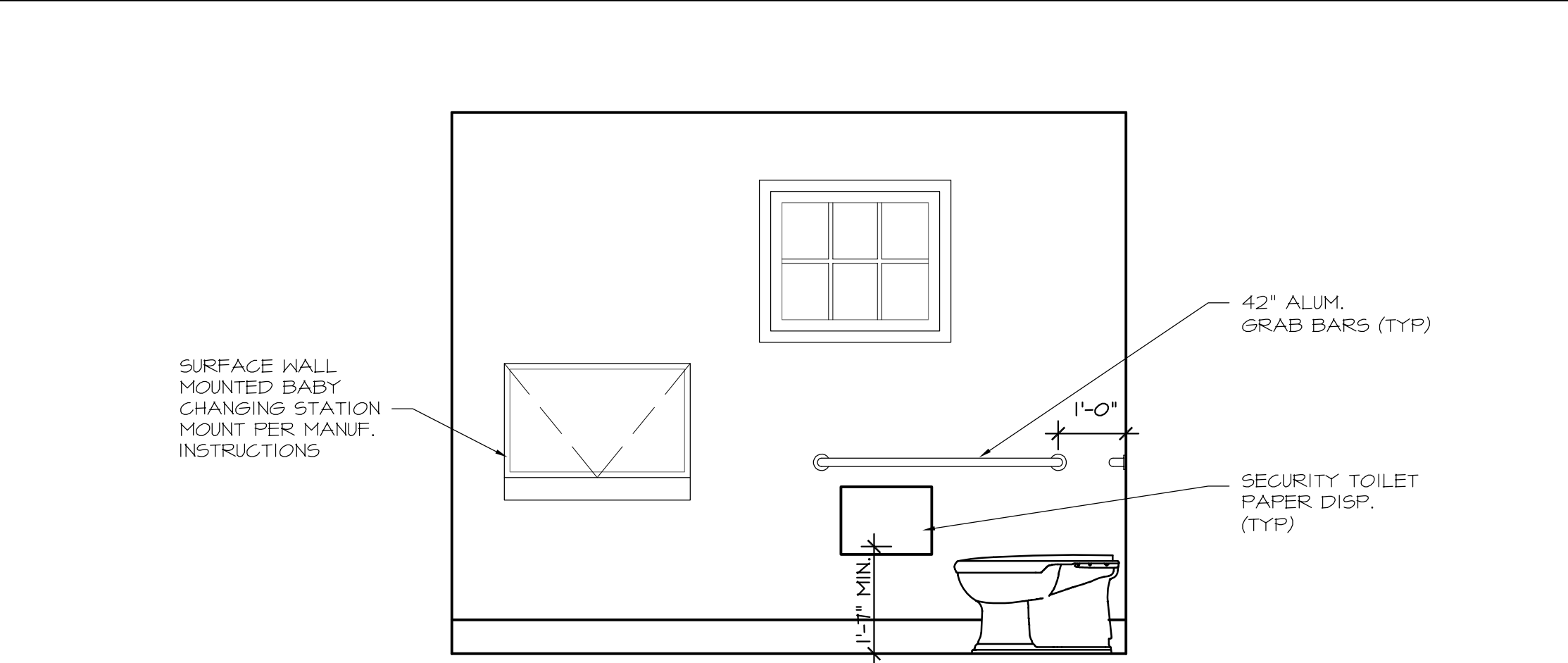
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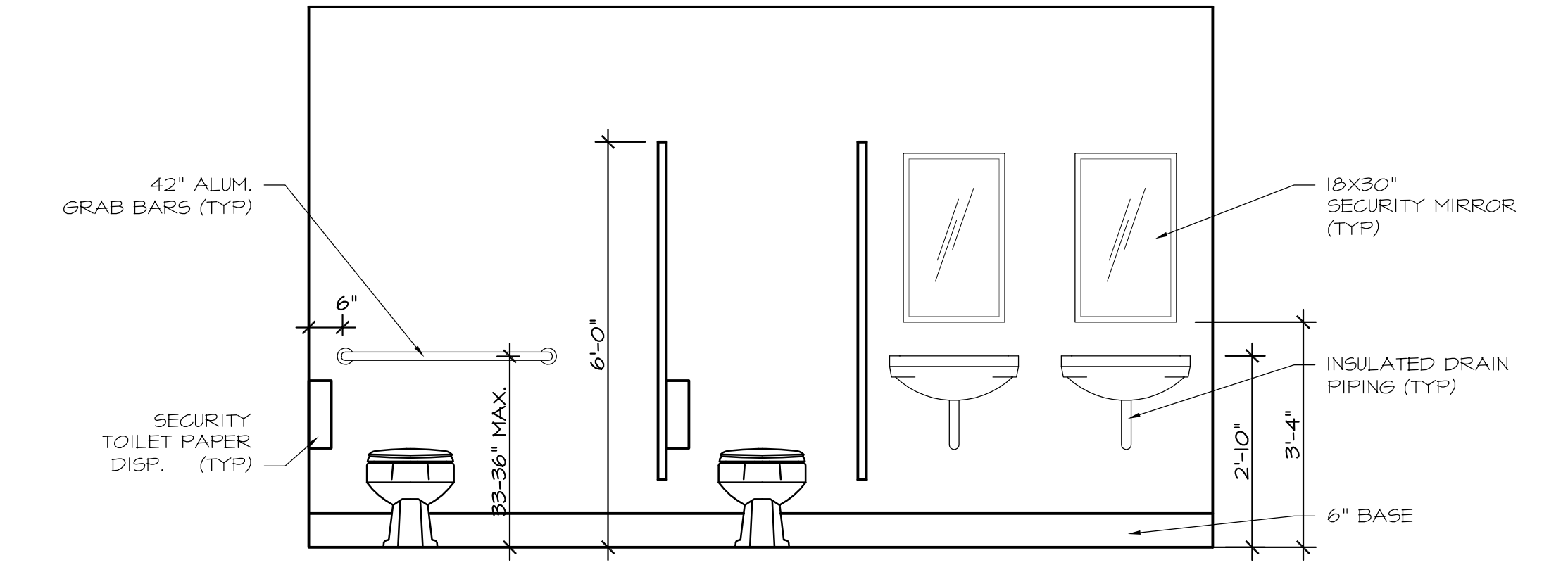
1 ENLARGED WOMEN'S PLAN 1/2" = 1'-0"



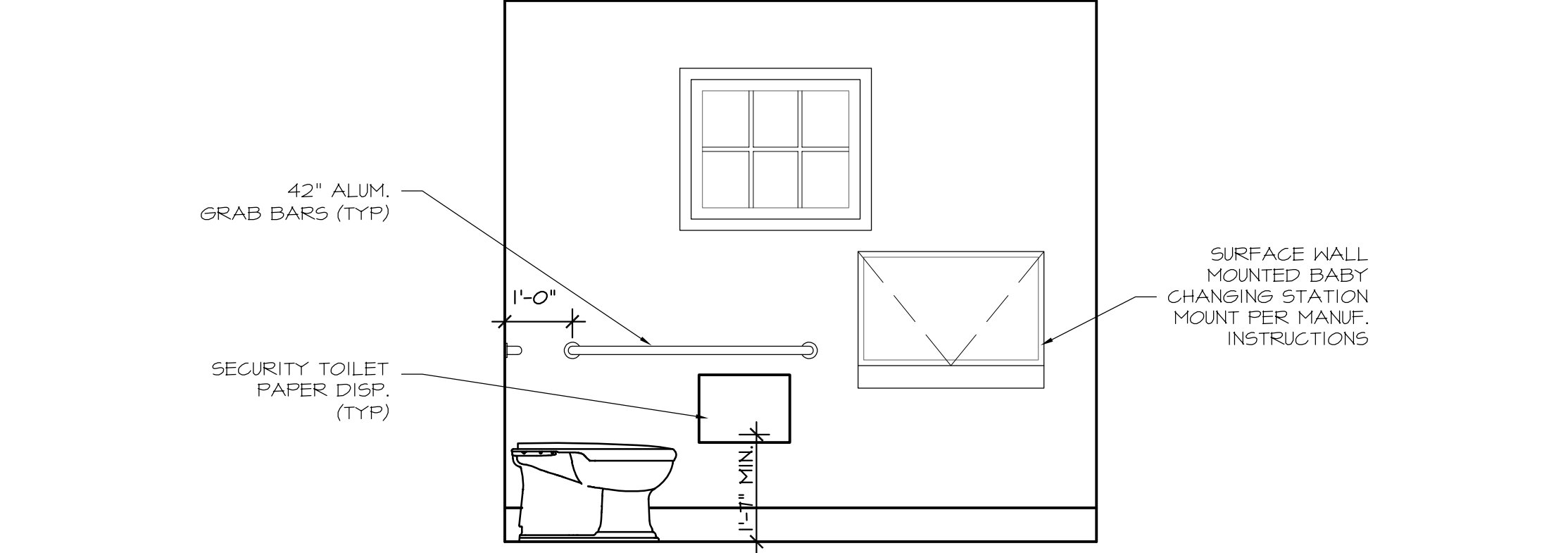
2 ENLARGED MEN'S PLAN 1/2" = 1'-0"



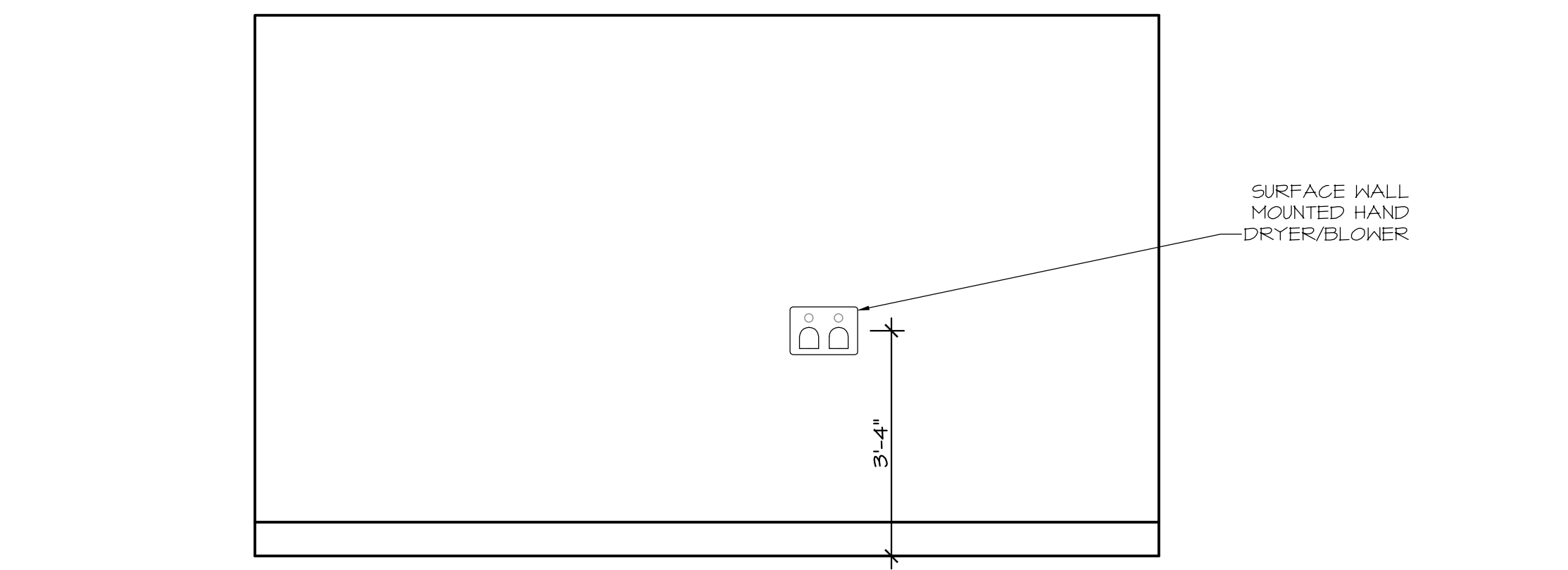
I-AA WOMEN'S



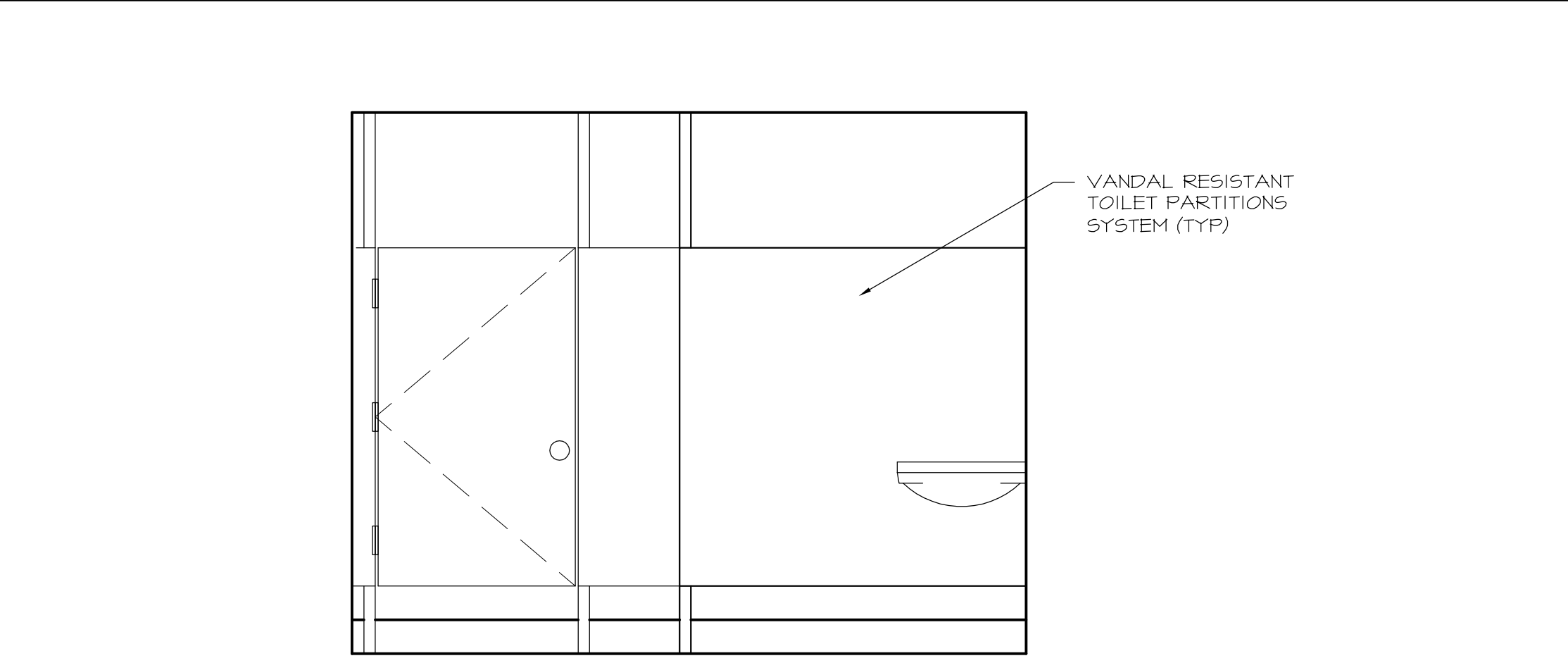
I-B WOMEN'S



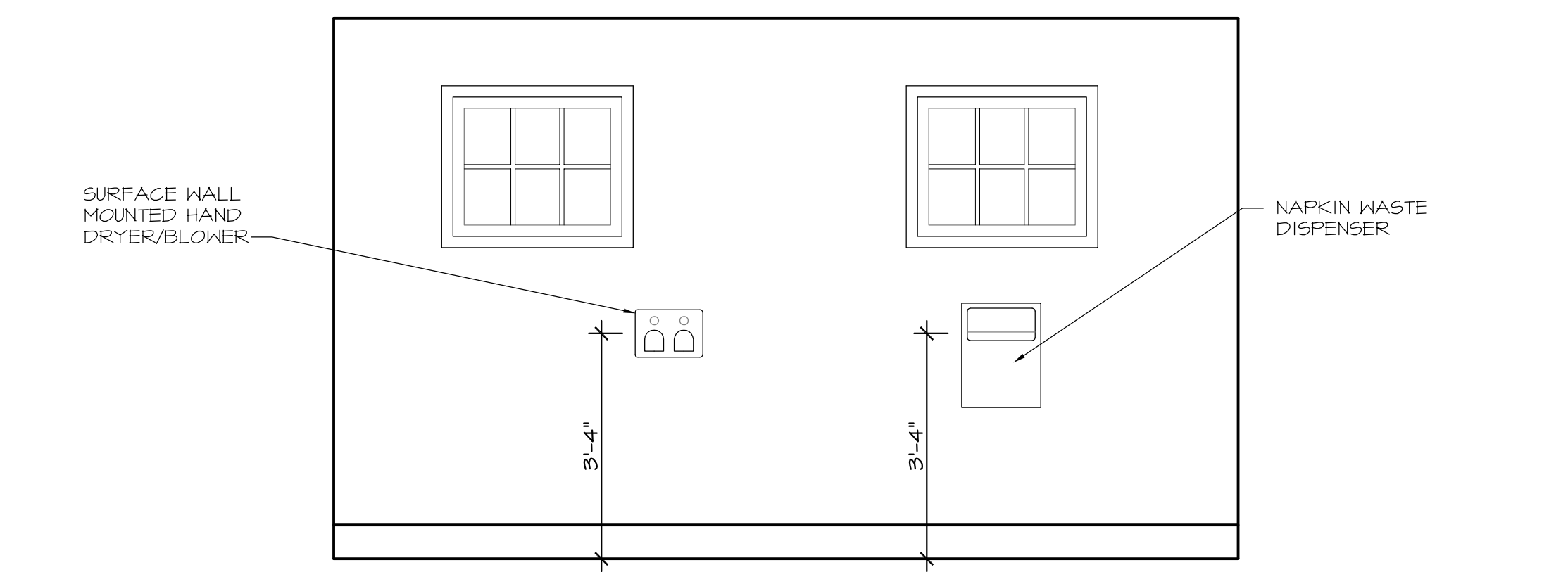
2-AA MEN'S



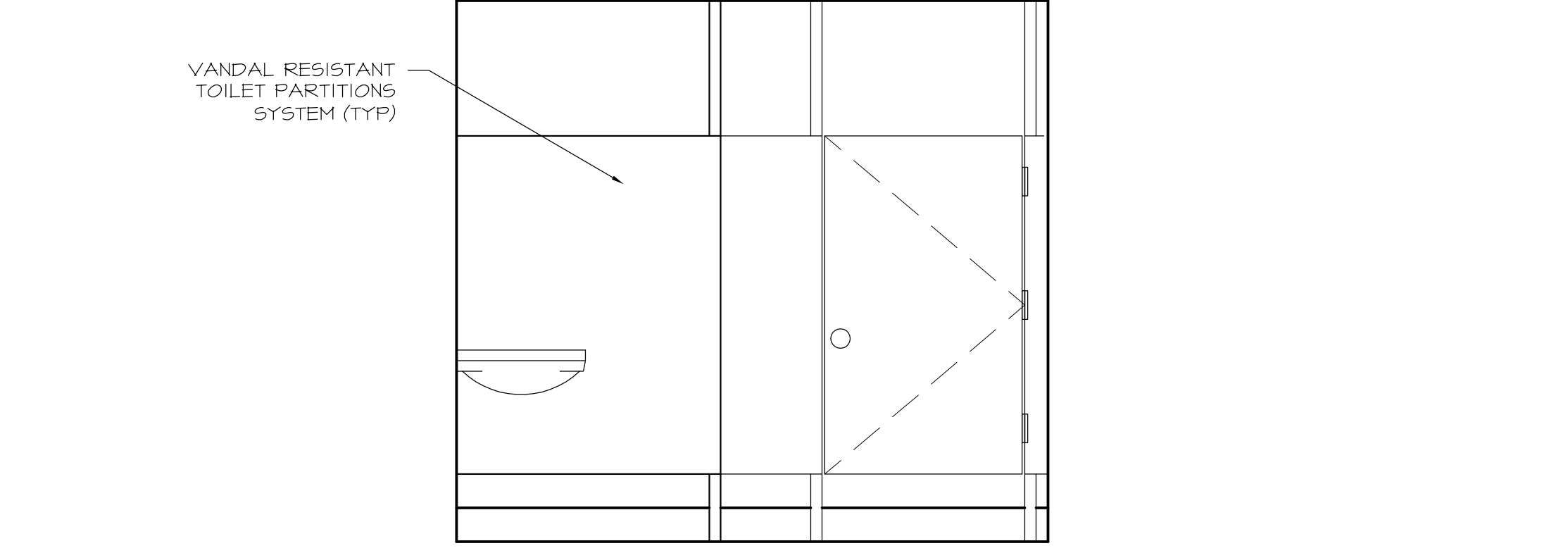
2-B MEN'S



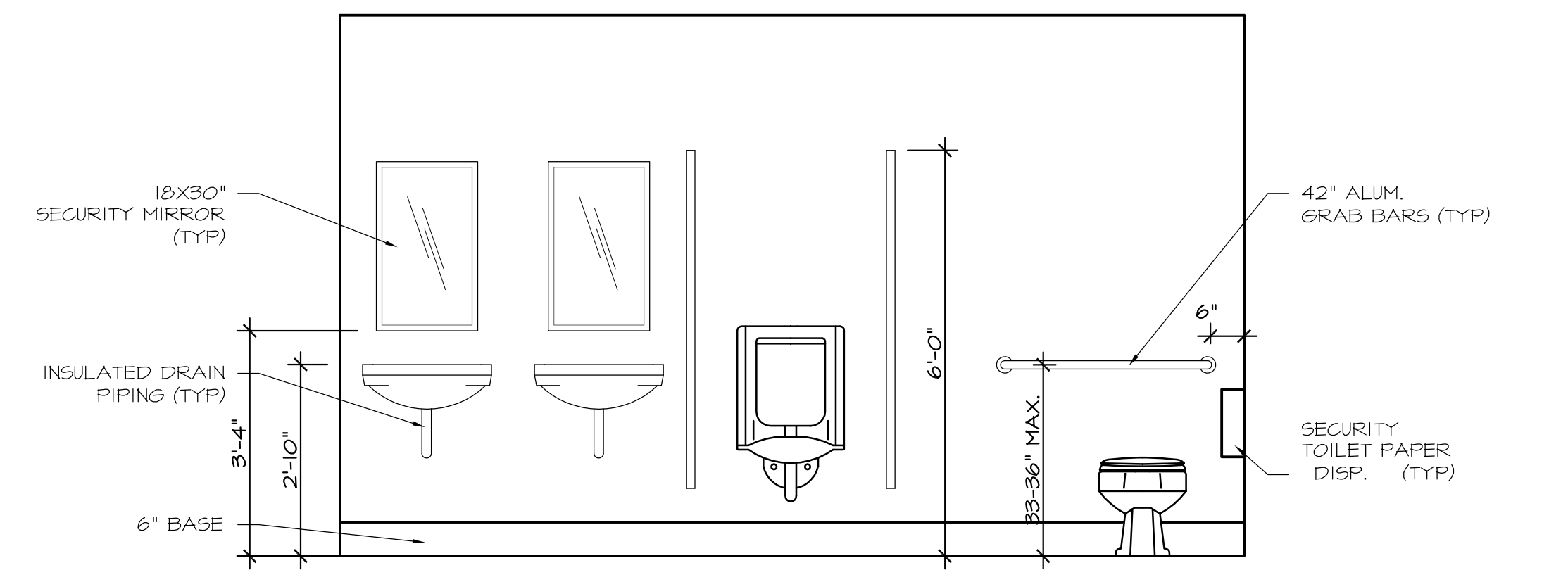
I-A WOMEN'S



I-D WOMEN'S



2-A MEN'S



2-D MEN'S

TOWN OF DAMARISCOTTA  
WATERFRONT RESTROOMS

Damariscotta, Maine

REVISIONS:	DATE:

DRAWING TITLE:  
INTERIOR  
ELEVATIONS

DATE:  
08/20/18 - PROGRESS

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

DRAWING NUMBER:

A-500



GENERAL NOTES:

1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
4. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIEDOWNS, SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS.
6. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

DESIGN NOTES

1. THE STRUCTURE IS DESIGNED TO COMPLY WITH THE 2015 EDITION OF "THE INTERNATIONAL BUILDING CODE" AND THE 2010 EDITION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", ASCE 7-10
2. FLOOR LIVE LOADS
- A. CORRIDORS, STAIRS, RAMP AND WALKWAY: 100 PSF
- B. REST ROOMS: 60 PSF
- C. MECHANICAL/STORAGE: 125 PSF
3. ROOF FRAMING IS DESIGNED FOR LOADS AS FOLLOWS:
- A. GROUND SNOW LOAD  $P_g = 50$  PSF.
- B. FLAT ROOF SNOW LOAD
- (1) BUILDING  $P_f = 38.5$  PSF.
- (2) OVERHANGS  $P_f = 42$  PSF.
- C. SNOW EXPOSURE FACTOR  $C_e = 1.0$ .
- D. SNOW IMPORTANCE FACTOR  $I = 1.0$ .
- E. THERMAL FACTOR
- (1) BUILDING  $C_t = 1.1$ .
- (2) OVERHANGS  $C_t = 1.2$ .
4. DESIGN FOR WIND IS IN ACCORDANCE WITH LOADING AS FOLLOWS:
- A. ULTIMATE DESIGN WIND SPEED  $V_{ult} = 120$  MPH.
- B. NOMINAL DESIGN WIND SPEED  $V_{nom} = 93$  MPH
- C. RISK CATEGORY II.
- D. WIND EXPOSURE - EXPOSURE C.
- E. INTERNAL PRESSURE COEFFICIENT  $C_{pi} = 0.18$ .
- F. REFER TO WIND UPLIFT LOAD DIAGRAM ON THIS SHEET FOR WIND UPLIFT LOADS ON TRUSSES.
5. SEISMIC DESIGN
- A. RISK CATEGORY = II
- B. SEISMIC IMPORTANCE FACTOR  $I = 1.00$
- C. MAPPED SPECTRAL RESPONSE ACCELERATION  $S_s = .202$
- D. MAPPED SPECTRAL RESPONSE ACCELERATION  $S_1 = .073$
- E. SITE CLASS = D
- F. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER:  $S_{ds} = 0.215$
- G. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER:  $S_{d1} = 0.116$
- H. SEISMIC DESIGN CATEGORY = B.
- I. BASIC SEISMIC FORCE RESISTING SYSTEM = INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
- J. DESIGN BASE SHEAR:  $V = 2.63$  KIPS.
- K. SEISMIC RESPONSE COEFFICIENT  $C_s = 0.0614$ .
- L. RESPONSE MODIFICATION FACTOR  $R = 3.5$ .
- M. ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE ANALYSIS.
6. FLOOD DESIGN
- A. THE BUILDING IS LOCATED IN A COASTAL A ZONE. DESIGN IS IN ACCORDANCE WITH REQUIREMENTS IN ASCE 7-10 AND ASCE 24-14. THE DESIGN FLOOD ELEVATION = 10'-0"
- B. FLOOR ELEVATION = 11'-10".
- C. VERTICAL ELEMENTS EXTENDING BELOW THE DESIGN FLOOD ELEVATION AND SUPPORTING FOUNDATIONS ARE DESIGNED TO RESIST FLOTATION, COLLAPSE, AND LATERAL MOVEMENT DUE TO THE EFFECTS OF WIND AND FLOOD LOADS ACTING SIMULTANEOUSLY.
- D. CONNECTING RAMPS AND STAIRS ARE DESIGNED AS BREAKAWAY STRUCTURES WITH CONNECTION TO THE BUILDING STRUCTURE DESIGNED FOR A LATERAL FORCE OF 20 PSF IN ACCORDANCE WITH ASCE 24-14.

FOUNDATION NOTES

1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL EVALUATION BY R. W. GILLESPIE AND ASSOCIATES DATED JULY 16, 2018. THE CONTRACTOR SHALL OBTAIN A COPY OF THAT REPORT AND COMPLY WITH ITS RECOMMENDATIONS UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS.
2. THE BUILDING IS DESIGNED TO BE SUPPORTED ON TIMBER PILES, DRIVEN TO REFUSAL. PILES SHALL CONFORM TO ASTM D25. STANDARD SPECIFICATION FOR ROUND TIMBER PILES, CLASS B, SOUTHERN YELLOW PINE. MINIMUM PILE TIP DIAMETER SHALL BE 8".
3. TIMBER PILES SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION STANDARD U-15, USE CATEGORY SYSTEM, USER SPECIFICATION FOR TREATED WOOD, USE CATEGORY UCSA MARINE USE NORTHERN WATERS.
4. PILES ARE DESIGNED FOR AN ALLOWABLE AXIAL COMPRESSIVE LOAD OF 58 KIPS.
5. PILES SHALL BE DRIVEN TO ULTIMATE CAPACITY BASED ON END-OF-DRIVING CRITERIA DETERMINED FROM A NAVE EQUATION ANALYSIS OF THE CONTRACTOR'S PILE DRIVING SYSTEM.
6. SUBMIT DOCUMENTATION DESCRIBING THE PROPOSED PILE DRIVING SYSTEM PRIOR TO EQUIPMENT MOBILIZATION. THE PROPOSED SYSTEM WILL BE EVALUATED FOR ABILITY TO DRIVE THE SPECIFIED PILES TO A REQUIRED CAPACITY OF 2.5 TIMES THE DESIGN LOAD WITHOUT DAMAGING PILES. INCLUDE A NAVE EQUATION ANALYSIS OF THE PROPOSED DRIVING SYSTEM.
7. SEQUENCE EARTHWORK ACTIVITIES AND USE MEANS AND METHODS THAT PROTECT ADJUTING PROPERTIES, NEARBY BUILDINGS, AND UTILITIES AGAINST DISTURBANCE. INSTALL TEMPORARY EXCAVATION SUPPORT SUCH AS DRIVEN SHEET PILES OR OTHER MEANS AS REQUIRED TO MAINTAIN LATERAL EXCAVATION LIMITS WITHIN THE SITE AND TO PREVENT EXCESSIVE LATERAL AND VERTICAL MOVEMENT OF ACTIVE UNDERGROUND UTILITIES.
- A. WHERE TEMPORARY EXCAVATIONS WILL NOT COMPLY WITH OSHA CRITERIA, SUBMIT A DESIGN BY A MAINE LICENSED ENGINEER.
- B. EXCAVATIONS SHALL COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS INCLUDING, BUT NOT LIMITED TO, OSHA HEALTH AND SAFETY STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, OR SUCCESSOR REGULATIONS.
8. ALL DELIVERY VEHICLES, HAUL TRUCKS, SPOIL PILES, AND OTHER STORAGE MATERIALS SHALL BE KEPT AWAY FROM EXCAVATION EMBANKMENTS BY A LATERAL DIMENSION GREATER THAN THE EXCAVATION DEPTH.

9. EXISTING SOILS ARE SENSITIVE TO DISTURBANCE WHEN WET. MAINTAIN GRADES TO DIRECT SURFACE RUNOFF AWAY FROM THE CONSTRUCTION AREA. GROUNDWATER HAS BEEN OBSERVED WITH 3 FEET OF GRADE. FLUCTUATIONS WITH TIDAL CONDITIONS ARE EXPECTED. DEWATER TO AT LEAST 1 FOOT BELOW THE BOTTOM OF PILE CAP ELEVATION SPECIFIED. MAINTAIN DEWATERING IN PLACE UNTIL THE FOUNDATION IS COMPLETE AND BACKFILLED.
10. REMOVE ALL OBSTRUCTIONS TO PILE DRIVING FROM THE BUILDING FOOTPRINT. REMOVAL MAY BE PERFORMED BY EXCAVATION OR SPUDDING. IF EXISTING PILES ARE ENCOUNTERED, DO NOT REMOVE. EXCAVATE AROUND THEM AND CUT THE TOPS OFF AT LEAST 2 FEET BELOW THE PROPOSED FINISH GRADE.
- A. WHERE EXCAVATION OF SOILS IS REQUIRED TO REMOVE OBSTRUCTIONS, AND WHERE REQUIRED FOR FOUNDATION CONSTRUCTION, BACKFILL WITH STRUCTURAL FILL TO THE SPECIFIED BOTTOM OF PILE CAP ELEVATION BEFORE DRIVING PILES.
- B. PLACE BACKFILL IN LEVEL, UNIFORM LIFTS NOT EXCEEDING 12" IN UNCOMPACTED THICKNESS. COMPACT WITH SELF-PROPELLED COMPACTION EQUIPMENT. IN CONFINED AREAS, LIMIT LIFT THICKNESS TO 6" AND LIMIT THE MAXIMUM PARTICLE SIZE TO 3". USE HAND-OPERATED COMPACTION EQUIPMENT IN CONFINED AREAS. COMPACT FILL MATERIALS TO 92% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. TEST METHOD FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING MODIFIED EFFORT (56,000 FT-LBS/FT<sup>3</sup>).
- C. ALL FILL MATERIALS SHALL BE STRUCTURE FILL CONSISTING OF A WELL-GRADED SAND AND GRAVEL MIXTURE MEETING THE FOLLOWING GRADATION REQUIREMENTS:

SCREEN OR SIEVE SIZE	PERCENT PASSING BY WEIGHT
6 INCH	100
3 INCH	75 TO 100
NO. 4	35 TO 70
NO. 40	5 TO 35
NO. 200	0 TO 5

11. EXERCISE CAUTION TO AVOID DAMAGE FROM VERTICAL OR LATERAL MOVEMENT OR VIBRATION TO EXISTING UTILITIES THAT ARE TO REMAIN IN PLACE. ABANDONED UTILITY PIPES AND CONDUIT ENCOUNTERED OUTSIDE OF THE BUILDING FOOTPRINT SHALL BE FILLED WITH CONCRETE AND CAPPED.
12. SLOPE FINISH GRADES TO DRAIN AWAY FROM THE BUILDING DURING CONSTRUCTION AND FOR THE COMPLETED PROJECT.
13. LIMIT DRIVING STRESSES SUCH THAT THE MAXIMUM COMPRESSIVE STRESS IS 3.6 KSI. (MAXIMUM DRIVING FORCE = 180 KIPS).
14. DRIVE PILES TO THE SPECIFIED CRITERIA WITH A SINGLE OR DOUBLEACTING HAMMER WITH A RATED ENERGY AT THE ANVIL OF 12,000 FT-LBS. DRIVE PILES CONTINUOUSLY USING THE SAME EQUIPMENT.
15. IN THE EVENT THAT PILE DRIVING IS CONFRONTED ABRUPTLY WITH HIGH RESISTANCE TO PENETRATION, CEASE PILE DRIVING OPERATIONS AND INVESTIGATE WITH REGARD TO POSSIBLE PILE DAMAGE. IN THE EVENT THAT THE INCREASE IN DRIVING RESISTANCE CANNOT BE CORRELATED TO LOG-BEARING DATA OR SUBSURFACE CONDITIONS, REMOVE THE PILE FOR INSPECTION.
16. PRE-EXCAVATION JETTING OR AUGURING MAY BE REQUIRED. IN THE EVENT THAT THE CONTRACTOR PROPOSES TO UTILIZE ANY OF THESE METHODS, THE CONTRACTOR SHALL SUBMIT A DESCRIPTION IDENTIFYING PROPOSED METHODS AND EQUIPMENT TO BE UTILIZED.
17. SPLICING OF TIMBER PILES IS NOT PERMITTED.
18. PILE LEADS SHALL BE FIXED AT TWO POINTS TO CONTROL VERTICAL ALIGNMENT OF PILES. DRIVE PILES TO LOCATIONS INDICATED WITH ALLOWABLE TOLERANCES AS FOLLOWS:
- A. MAXIMUM ECCENTRICITY OF A SINGLE PILE FOR A ONE PILE CAP AND FOR THE CENTROID OF A 2 PILE CAP = 1".
- B. MAXIMUM OUT-OF-PLUMBNESS = 1 INCH IN 10 FEET.
19. INSTALL PROVISIONS TO MONITOR PILE HEAVE. IF MEASUREMENTS INDICATE MORE THAN 1/2 INCH OF HEAVE TO A PILE HAS OCCURRED DURING INSTALLATION OF ADJACENT PILES, RE-DRIVE THE PILE TO THE REQUIRED PENETRATION.
20. PAYMENT FOR PILES WILL BE FOR ACTUAL LENGTHS IN PLACE, MEASURED THE BEARING TIP TO THE CUTOFF, ROUNDED TO A WHOLE NUMBER. THE CONTRACTORS BID SHALL BE BASED ON AN ESTIMATED TOTAL LENGTH OF 225 LINEAL FEET FOR THE 18 SPECIFIED PILES. PROVIDE ADJUSTMENTS FOR OVER LENGTH AND UNDER LENGTH IN THE BIDDING DOCUMENTS.
21. PILE DRIVING OPERATIONS REQUIRES CONTINUOUS INSPECTION. DO NOT PROCEED WITH PILE DRIVING WITHOUT A DESIGNATED INSPECTOR. UNINSPECTED DRIVEN PILES WILL BE REJECTED.

CONCRETE NOTES

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-14, ACI 301-05, AND ACI 117-10.
2. CONCRETE SHALL HAVE MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
- A. EXTERIOR SLABS AND FOUNDATIONS - 4500 PSI
- B. INTERIOR SLABS - 4000 PSI.
3. ALL CONCRETE EXPOSED TO FREEZE-THAW CYCLES IN SERVICE SHALL BE AIR-ENTRAINED FOR EXPOSURE CLASS F2 PER ACI 318.
4. NO CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
5. DURING COLD WEATHER, CONCRETING PROCEDURES SHALL CONFORM TO ACI 306, "COLD WEATHER CONCRETE PRACTICES". MAINTAIN CONCRETE TEMPERATURE ABOVE 50 DEGREES F FOR 7 DAYS AFTER PLACEMENT.
6. DURING HOT WEATHER, CONCRETING PROCEDURES SHALL CONFORM TO ACI 305, "HOT WEATHER CONCRETE PRACTICES".
7. ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.
8. REINFORCEMENT SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVER:
- A. CONCRETE DEPOSITED ON GROUND: 3"
- B. CONCRETE EXPOSED TO GROUND OR WEATHER: 2".
- C. CONCRETE NOT EXPOSED TO GROUND OR WEATHER: 1".
9. REINFORCEMENT SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE ACI DETAILING MANUAL, ACI SP-66 (04).
10. ALL LAP SPLICES SHALL BE CONSIDERED CLASS B SPLICES UNLESS OTHERWISE NOTED.
11. WELDED WIRE FABRIC FOR USE IN SLABS SHALL CONFORM TO ASTM A185.
12. PLACE WELDED WIRE FABRIC AT SLAB MIDDEPTH UNLESS OTHERWISE INDICATED. WELDED WIRE FABRIC SHALL BE SUPPORTED ON CHAIRS OR OTHER APPROVED MEANS. THE USE OF LIFTING HOOKS TO POSITION WWF IS PROHIBITED. SPACE SUPPORTS AT A MAXIMUM SPACING OF 3'-0"
13. SPLICE WELDED WIRE FABRIC A MINIMUM OF 6".
14. CHAMFER ALL EXPOSED EDGES 3/4".
15. MAINTAIN CONCRETE CONTINUOUSLY MOIST WITH TEMPERATURE ABOVE 50 DEGREES F FOR 7 DAYS AFTER PLACEMENT.

TRUSS NOTES

1. ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
- A. DEAD LOAD = HEIGHT OF TRUSS PLUS A UNIFORM TOP CHORD DEAD LOAD = 7 PSF AND A UNIFORM BOTTOM CHORD DEAD LOAD = 10 PSF.
- B. UNIFORM SNOW LOAD UNIFORMLY DISTRIBUTED OVER A HORIZONTAL PROJECTION ACROSS THE ROOF CROSS-SECTION.
- C. WIND LOAD AS UPLIFT APPLIED UNIFORMLY AND PERPENDICULAR TO THE ROOF SURFACE IN ACCORDANCE WITH THE NOTES ON SO.
- (1). WHEN EVALUATING WIND UPLIFT LOADS, ASSUME BOTTOM CHORD DEAD LOAD = 3 PSF, AND TOP CHORD DEAD LOAD = 5 PSF.
- D. DESIGN FOR LOAD COMBINATIONS IN ACCORDANCE WITH ASCE7-10.
- E. LIMIT SNOW LOAD DEFLECTION TO L/360

2. REQUIRED DIMENSIONAL PARAMETERS ARE SHOWN ON THE TRUSS ELEVATION. LAYOUT OF WEB MEMBERS, SIZE, GRADE, AND SPECIES OF ALL MEMBERS SHALL BE SELECTED BY THE TRUSS FABRICATOR TO COMPLY WITH THE 2005 EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND ITS SUPPLEMENT BY THE AMERICAN FOREST AND PAPER ASSOCIATION AND THE 2001 EDITION OF THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION BY THE TRUSS PLATE INSTITUTE.
3. METAL HANGERS AND TIES INDICATED IN DRAWINGS ARE STOCK NUMBERS FROM SIMPSON STRONG-TIE. PROPOSED SUBSTITUTIONS SHALL HAVE EQUAL LOAD CAPACITY FOR ALL DIRECTIONS OF LOADING.
4. THE CONTRACTOR SHALL PROVIDE PERMANENT AND TEMPORARY BRACING FOR BOTTOM CHORDS AND WEBS IN ACCORDANCE WITH BCSP 1-02, "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" BY THE WOOD TRUSS COUNCIL OF AMERICA AND THE TRUSS PLATE INSTITUTE. ALL REQUIRED TRUSS BRACING AND ITS CONNECTIONS SHALL BE CLEARLY INDICATED ON ERECTION DRAWINGS STAMPED BY AN ENGINEER LICENSED TO PRACTICE IN THE STATE OF MAINE.
5. THE TRUSS SUPPLIER SHALL DESIGN TRUSSES AT THEIR SUPPORTS FOR THE MAXIMUM ALLOWABLE BEARING STRESS OF 425 PSI AND THE PROVIDED BEARING LENGTH. DOUBLE TRUSSES OR SHOP / FIELD INSTALLED REINFORCEMENT AT TRUSS BEARINGS MAY BE REQUIRED WHERE BEARING STRESSES ARE EXCEEDED. TRUSS DESIGNER SHALL SPECIFY ON THE TRUSS ERECTION DRAWINGS ALL REQUIRED SHOP OR FIELD TRUSS BEARING REINFORCEMENT.
6. FABRICATED TRUSSES SHALL BE INSPECTED AT THE FABRICATION PLANT. APPROVED TRUSSES SHALL RECEIVE THE TPI MARK OF APPROVAL IN ACCORDANCE WITH THE TPI IN-PLANT INSPECTION LICENSE AGREEMENT.
7. CONNECTOR PLATES SHALL BE GALVANIZED.
8. FRAMING PLANS INDICATE TRUSSES TO BE SPACED AT 24" ON CENTER. THIS IS A MAXIMUM SPACING. TRUSSES MAY BE RESPACED AT LESS THAN 24" ON CENTER TO ACCOMMODATE LOADINGS AND GEOMETRIC CONSTRAINTS SPECIFIED.
9. SUBMITTALS:
- A. SHOP DRAWINGS: PREPARED BY OR UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER, SHOW FABRICATION AND INSTALLATION DETAILS FOR TRUSSES.
- (1). SHOW LOCATION, PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED.
- (2). INDICATE SIZES, STRESS GRADES, AND SPECIES OF LUMBER.
- (3). INDICATE LOCATIONS OF PERMANENT BRACING REQUIRED TO PREVENT BUCKLING OF INDIVIDUAL TRUSS MEMBERS DUE TO DESIGN LOADS.
- (4). INDICATE TYPE, SIZE, MATERIAL, FINISH, DESIGN VALUES, ORIENTATION, AND LOCATION OF METAL CONNECTOR PLATES.
- (5). SHOW SPLICE DETAILS AND BEARING DETAILS.
- (6). FOR INSTALLED PRODUCTS INDICATED TO COMPLY WITH DESIGN LOADS, INCLUDE STRUCTURAL ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
- B. ERECTION DRAWINGS: PROVIDE A TRUSS LAYOUT DRAWING WITH ALL ELEMENTS SPECIFIED FOR PROPER ERECTION OF WOOD TRUSSES.
- (1). IDENTIFY LOCATIONS OF EACH TRUSS USING IDENTIFICATION LABELS CONSISTENT WITH SHOP DRAWINGS AND ANALYSIS SHEETS.
- (2). SHOW PERMANENT BRACING REQUIRED FOR STABILITY OF WEB MEMBERS. INCLUDE CONNECTION DETAILS OR SPECIFICATION OF NAILING REQUIREMENTS. IDENTIFY TERMINATION POINTS AND CONNECTIONS TO OTHER STRUCTURAL ELEMENTS WHEN REQUIRED FOR COMPLETE ASSEMBLY.
- (3). SHOW DETAILS OR OTHERWISE IDENTIFY REQUIREMENTS FOR CONNECTING TRUSSES TO OTHER FABRICATOR-DESIGNED TRUSSES, INCLUDING OVER-BUILDING TRUSSES TO BE ATTACHED TO SUPPORTING TRUSSES.
- (4). ERECTION DRAWINGS SHALL BEAR THE SEAL OF THE QUALIFIED ENGINEER RESPONSIBLE FOR THE PREPARATION. IT IS NOT NECESSARY FOR THE ENGINEER RESPONSIBLE FOR ERECTION DRAWINGS TO BE THE SAME ENGINEER RESPONSIBLE FOR TRUSS DESIGNS.
- C. PRODUCT DATA: SUBMIT FOR ALL PROPRIETARY ITEMS UTILIZED FOR THE MANUFACTURE OR ERECTION OF WOOD TRUSSES INCLUDING, BUT NOT LIMITED TO, METAL CONNECTOR-PLATES USED TO JOIN TRUSS MEMBERS IN FABRICATION, METAL CONNECTORS USED TO JOIN TRUSSES TO SUPPORTS IN THE FIELD, ADHESIVE ANCHORS, AND OTHERS REQUIRED FOR COMPLETE ASSEMBLY.
- (1). INCLUDE TECHNICAL DATA AS REQUIRED TO VERIFY COMPLIANCE WITH LOADING REQUIREMENTS.
- (2). INCLUDE DOCUMENTATION VERIFYING CODE ACCEPTANCE.
- (3). INCLUDE IDENTIFICATION OF FASTENER REQUIREMENTS AND OTHER INSTALLATION INSTRUCTIONS NECESSARY TO ATTAIN DESIGN LOAD CAPACITY.
- (4). SUBMITTAL OF PRODUCT DATA IS REQUIRED FOR ITEMS SPECIFIED ON CONTRACT DOCUMENTS AND ITEMS SPECIFIED BY THE TRUSS FABRICATOR ON SHOP AND ERECTION DRAWINGS, WHERE ITEMS ARE SPECIFIED ON CONTRACT DOCUMENTS. SUBMIT PRODUCT DATA EVEN WHEN PROPOSING TO UTILIZE SPECIFIED PRODUCTS WITHOUT SUBSTITUTION

TIMBER FRAMING NOTES:

1. LUMBER USED FOR STRUCTURAL FRAMING SHALL BE NO. 2 GRADE OR BETTER OF ANY OF THE FOLLOWING SPECIES:
- A. SPRUCE-PINE-FIR GRADED UNDER NLGA RULES.
- B. SPRUCE-PINE-FIR (SOUTH) GRADED UNDER NELMA, NSLB, NGLB, OR NWPA RULES.
- C. SOUTHERN PINE GRADED UNDER SPIB RULES.
2. WHERE SPECIFIED ON THE DRAWINGS, PROVIDE SOUTHERN PINE LUMBER WITHOUT SUBSTITUTION.
3. WHERE FASTENERS ARE NOT SPECIFIED, PROVIDE FASTENERS IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE (IBC) TABLE 2304.4.1.
4. PROVIDE ENGINEERED LUMBER WHERE INDICATED. PRODUCTS SHALL BE THE FOLLOWING OR EQUAL:
- A. LVL = LAMINATED VENEER LUMBER = MICROLLAM I-LEVEL TRUS/JOIST FROM MEYERHAUSER.
- B. PSL = PARALLEL STRAND LUMBER = PARALLAM I-LEVEL TRUS/JOIST FROM MEYERHAUSER.
- FOR EACH PRODUCT SPECIFIED ABOVE, PROVIDE ALL MEMBERS FROM THE SAME MANUFACTURER.
5. ALL SILL PLATES SHALL BE SOUTHERN PINE, PRESSURE TREATED WITH SODIUM BORATE (SBX). PROVIDE RETENTION = 0.28 LBS / CF.
6. SECURE SILL PLATES TO FOUNDATIONS WITH ANCHOR RODS AS SPECIFIED. SPACING INDICATED IS MAXIMUM. COORDINATE LAYOUT OF ANCHOR RODS AND SILL PLATE MEMBERS WITH STUD PLACEMENT.
7. REFER TO NOTES ON THIS SHEET FOR ROOF SHEATHING NOTES.
8. WHERE TOENAILLED FASTENERS ARE SPECIFIED, INSTALL FASTENERS AT 60 DEGREES FROM THE SUPPORTING MEMBER. LOCATE THE PENETRATION INTO THE SUPPORTED MEMBER AT 1/3 THE NAIL LENGTH FROM THE MEMBER END.
9. FRAMING CONNECTORS ARE SPECIFIED AS SIMPSON STRONG-TIE. SUBSTITUTIONS SHALL BE APPROVED BEFORE INSTALLATION. SUBMIT PRODUCT DATA WITH STRUCTURAL LOAD CAPACITIES INDICATED FOR REVIEW. APPROVAL WILL BE BASED ON CAPACITIES REQUIRED FOR THE REQUIRED LOADING.

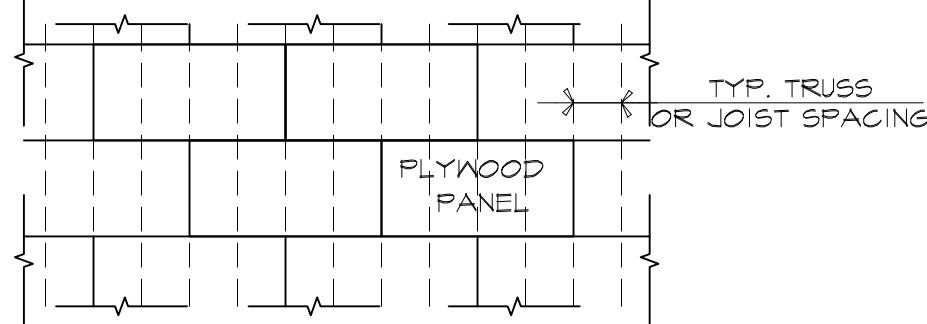
REINFORCED MASONRY NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR WALL AND WALL OPENING DIMENSIONS.
2. MASONRY SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH  $f_m' = 1500$  PSI.
3. REFER TO SPECIFICATION SECTION 042000 FOR MATERIAL SPECIFICATIONS AND OTHER REQUIREMENTS.
4. COMPLY WITH APPLICABLE PROVISIONS OF ACI 530-13 AND ACI 530.1-13 FOR MASONRY CONSTRUCTION, REINFORCING STEEL INSTALLATION, AND GROUTING.

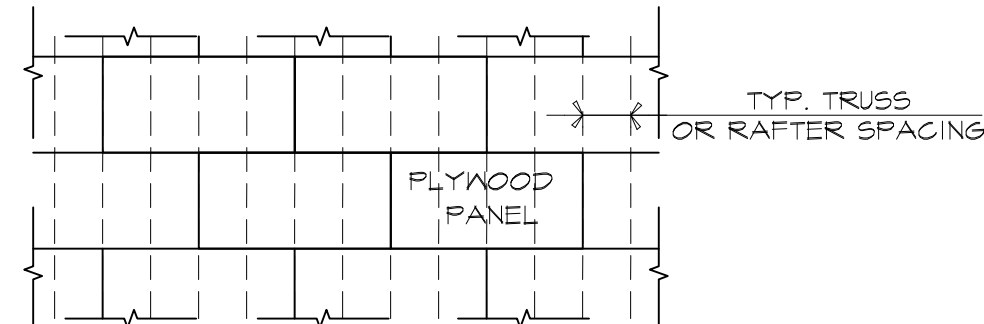
5. REINFORCEMENT INSTALLATION GENERAL:

- A. BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM MASONRY. VERTICAL BARS SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM OF THE WALL AND AT INTERMEDIATE POINTS LESS THAN 8 FEET APART. USE REBAR POSITIONERS SUCH AS HOHMANN AND BARNARD RB-8 TO SECURE BARS. FIELD BEND OVERSIZED BAR OPENINGS OR SECURE WITH WIRE FOR BARS TO BE HELD IN PLACE.
- B. THE MINIMUM SPLICE DISTANCE FOR SUCCESSIVE BARS SHALL BE 1'-8".
6. PROVIDE VERTICAL REINFORCEMENT IN MASONRY WALLS CONSISTING OF #4 BARS, CENTERED IN THE MASONRY CROSS-SECTION.
- A. PROVIDE 1 #4 BAR AT EACH CORNER.
- B. INSTALL #4 BARS AT A UNIFORM SPACING NOT EXCEEDING 48" BETWEEN CORNERS.
- C. INSTALL ADDITIONAL #4 BARS AT 4" FROM EACH SIDE OF A WALL OPENING.
- D. FOUNDATIONS SHALL BE CAST WITH DOWELS TO ALIGN WITH VERTICAL MASONRY REINFORCEMENT.
7. INSTALL 3/8" DIAMETER LADDER TYPE JOINT REINFORCEMENT AT 16" ON CENTER. PROVIDE SPECIAL CORNER CONFIGURATIONS AND LAP SPLICE SUCCESSIVE SECTIONS A MINIMUM OF 12".
8. GROUTING:
- A. GROUT LIFT HEIGHT SHALL NOT EXCEED 5 FEET. GROUT POUR HEIGHT SHALL NOT EXCEED 10 FEET. PROVIDE CLEANOUTS IN THE BOTTOM COURSE OF EACH CELL TO BE GROUTED WHERE THE GROUT FOUR EXCEEDS 5 FEET.
- B. AT VERTICAL GROUT PLACEMENTS, STOP GROUT 1-1/2" BELOW THE TOP OF A MASONRY UNIT TO FORM A KEY AT THE JOINT.
- C. GROUTING OF MASONRY BEAMS AND LINTELS SHALL BE CONTINUOUS.
- D. CONSOLIDATE GROUT WITH A MECHANICAL VIBRATOR. USE A LOW VELOCITY VIBRATOR WITH A 3/4" HEAD. VIBRATE EACH CELL TWICE. INSERT VIBRATOR TO THE BOTTOM OF LIFT AND ACTIVATE FOR 1 TO 2 SECONDS.
- (1). PERFORM INITIAL CONSOLIDATION AT EACH CELL IMMEDIATELY AFTER GROUT PLACEMENT.
- (2). PERFORM RECONSOLIDATION IN EACH CELL BY REINSERTING VIBRATOR WHILE GROUT IS STILL PLASTIC.
9. INSTALL VERTICAL CONTROL JOINTS IN MASONRY WHERE INDICATED OR IF NOT INDICATED, AT A MAXIMUM SPACING OF 30'. CUT JOINT REINFORCEMENT AT CONTROL JOINTS. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.

FLOOR SHEATHING NOTES:

1. **D-1** DENOTES FLOOR DECK. FLOOR DECK SHALL BE 3/4" T&G GLUED & NAILED PLYWOOD ADVANTECH, OR APA RATED STURD-I-FLOOR WITH SPAN RATING 24' O.C.. FASTEN W/ 6d RING OR SCREW SHANK NAILS OR 8d COMMON NAILS @ 6" O.C. AT ALL SUPPORTED EDGES & 12" O.C. IN THE FIELD.
- A. LAYOUT PANELS WITH END JOINTS STAGGERED AND LONG DIMENSION PERPENDICULAR TO SUPPORTS.
- 
- B. GLUE SHALL BE FIELD APPLIED TO TOPS OF JOISTS AND PANEL EDGES AND GROOVE JOINTS. GLUE SHALL COMPLY WITH ASTM D3498 OR APA SPECIFICATION AF&G-01.
- C. INSTALL IN ACCORDANCE WITH APA CONSTRUCTION GUIDE E30.
2. **D-4** DENOTES 2" NOMINAL THICKNESS TONGUE & GROOVE TIMBER DECK. COMPLY WITH REQUIREMENTS FOR D3 ROOF DECK BELOW.
3. **D-5** DENOTES CORRECT DECK, IN 7/8"x5/8". PROVIDE "CHANNELED DECKING" WITH FASTENATOR FOR CONCEALED CONNECTION. FASTENATOR SHALL BE PRE-LOADED WITH MANUFACTURER'S STANDARD POWDER-COATED, SQUARE-DRIVE, TRIM-HEAD SCREW. SCREW INTO EACH SUPPORT.

ROOF SHEATHING NOTES:

1. **D-2** DENOTES ROOF DECK. ROOF DECK SHALL BE 5/8" THICK APA RATED SHEATHING WITH 40/20 SPAN RATING.
- A. LAYOUT PANELS WITH END JOINTS STAGGERED AND LONG DIMENSION PERPENDICULAR TO SUPPORTS.
- 
- B. FASTEN ROOF DECK TO SUPPORTS WITH 10d NAILS. SPACE NAILS @ 6" O.C. AT SUPPORTED EDGES AND @ 12" O.C. AT INTERMEDIATE SUPPORTS.

REVISION		DATE		NO.	

TOWN OF DAMARISCOTTA  
WATERFRONT RESTROOMS

Damariscotta, Maine

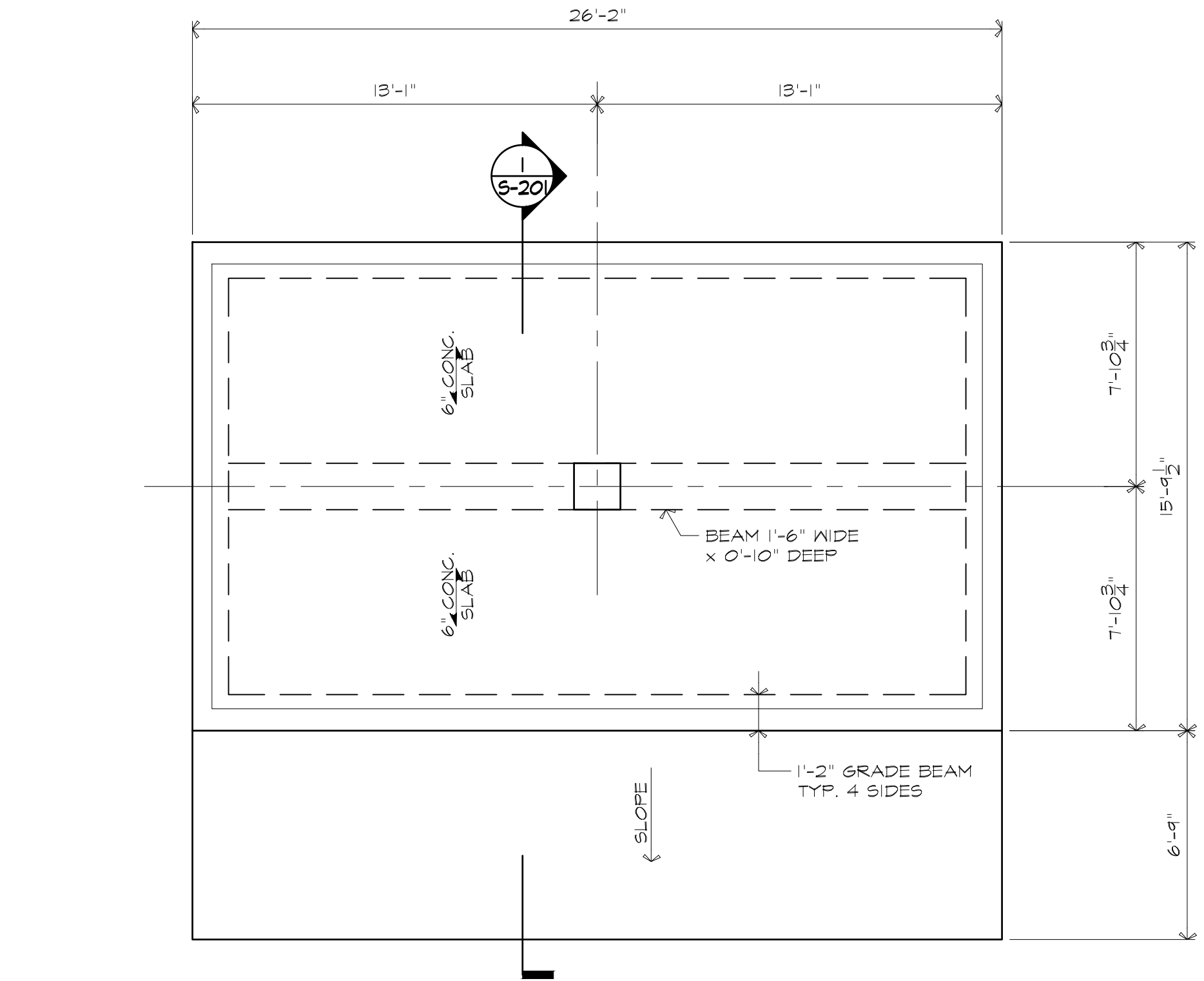
GENERAL STRUCTURAL NOTES

DESIGNED BY	SAW
CHECKED BY	MAC
ISSUE DATE	8-14-18
PROJECT NO.	2017-193

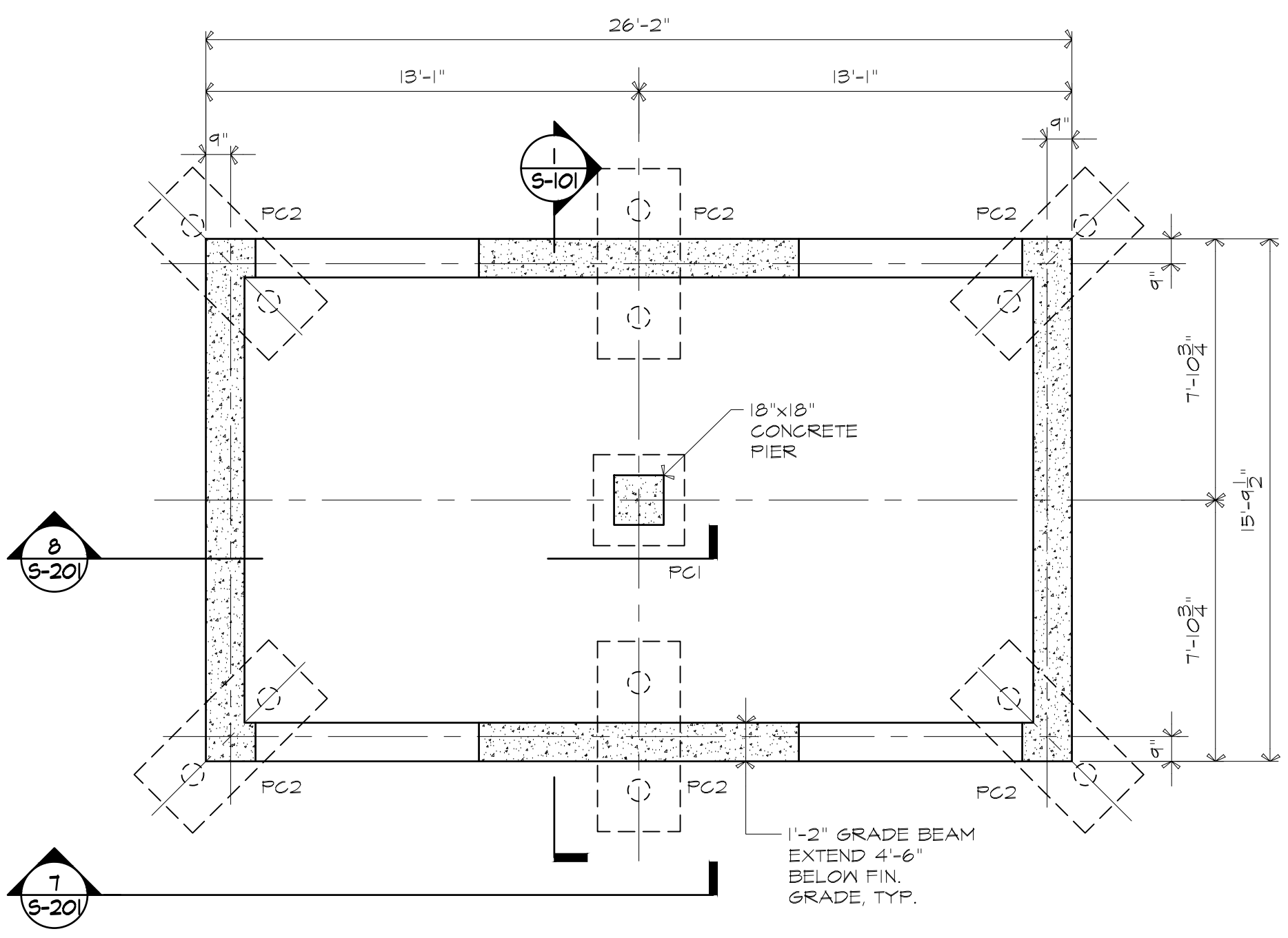
**Lincoln / Haney**  
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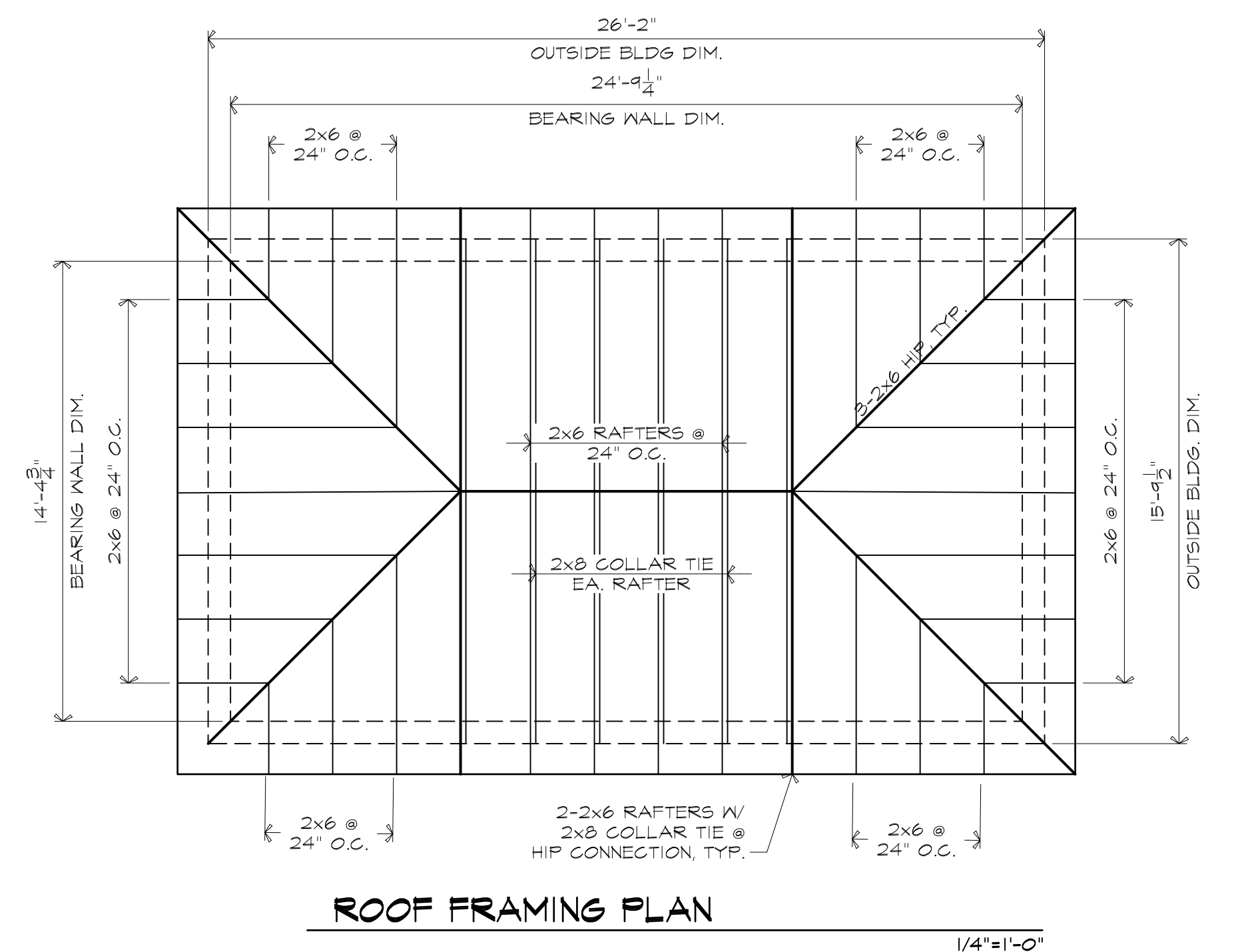
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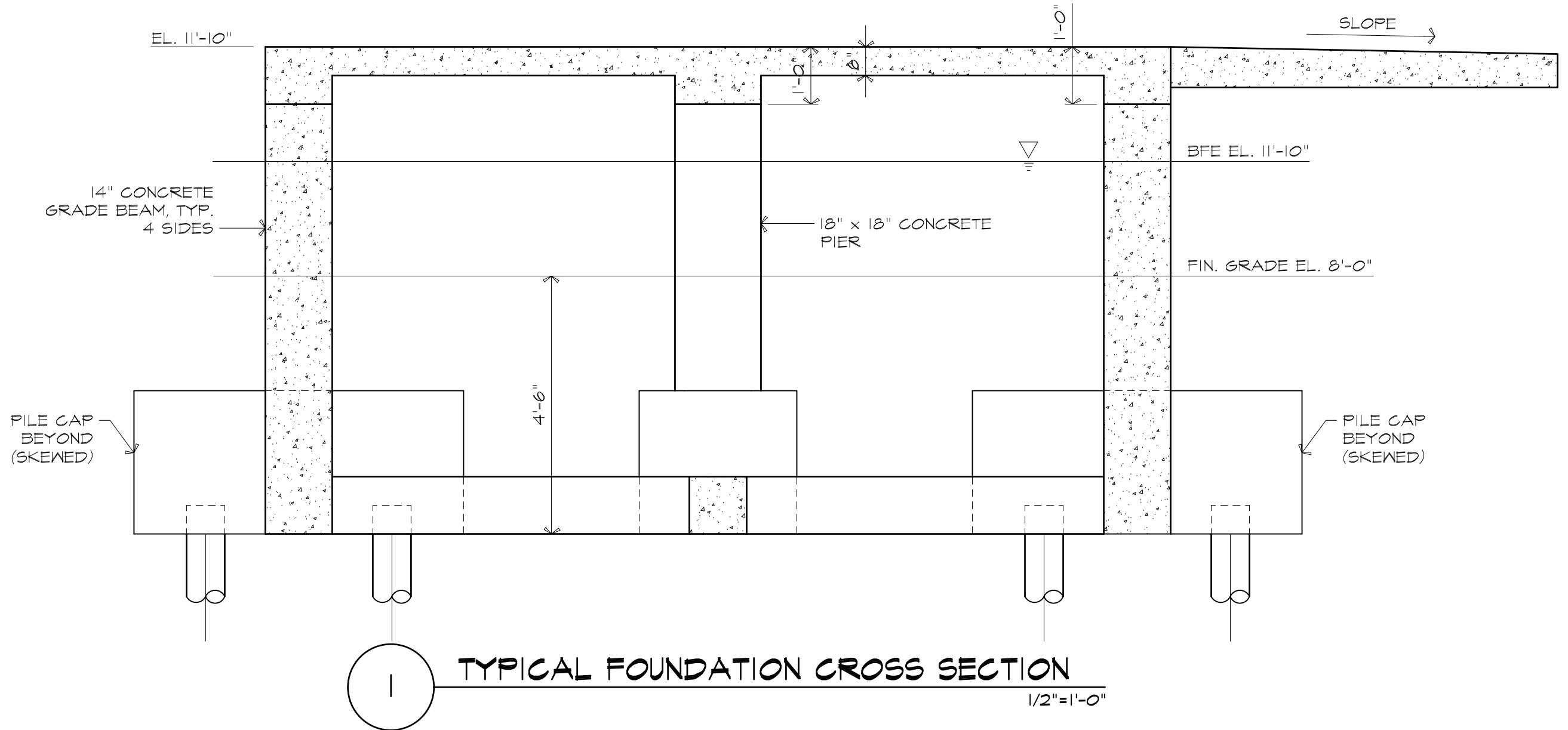
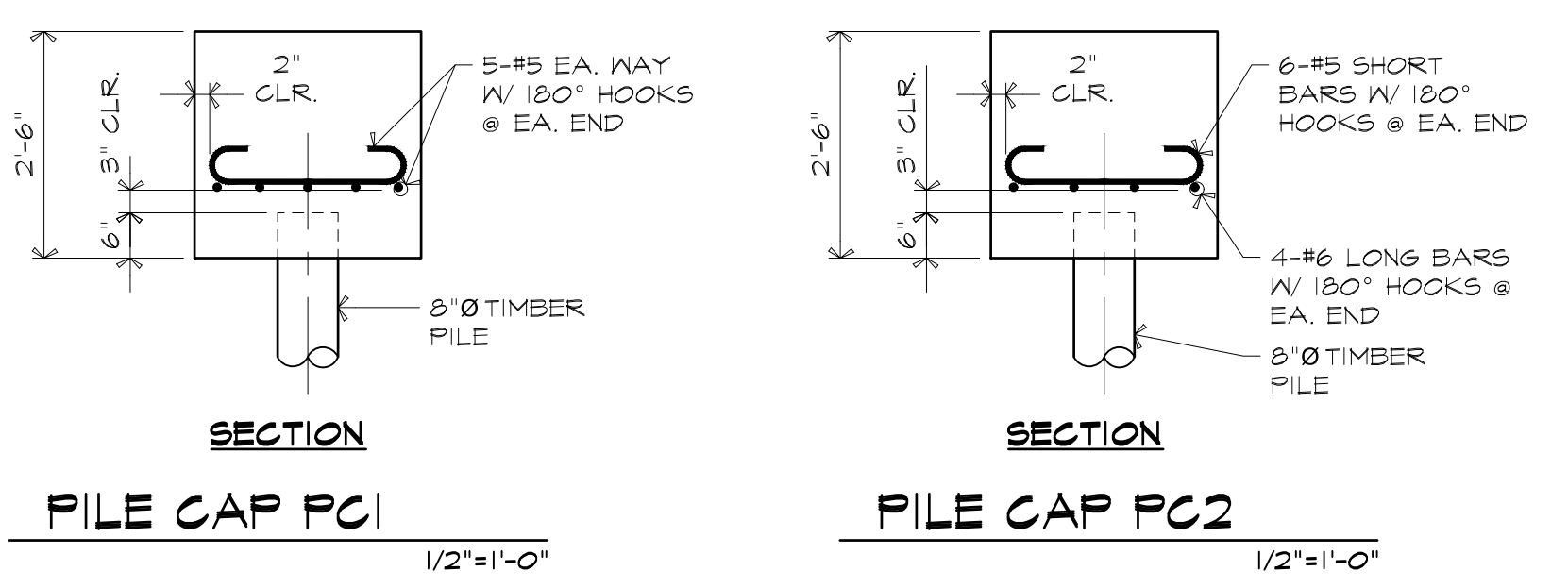
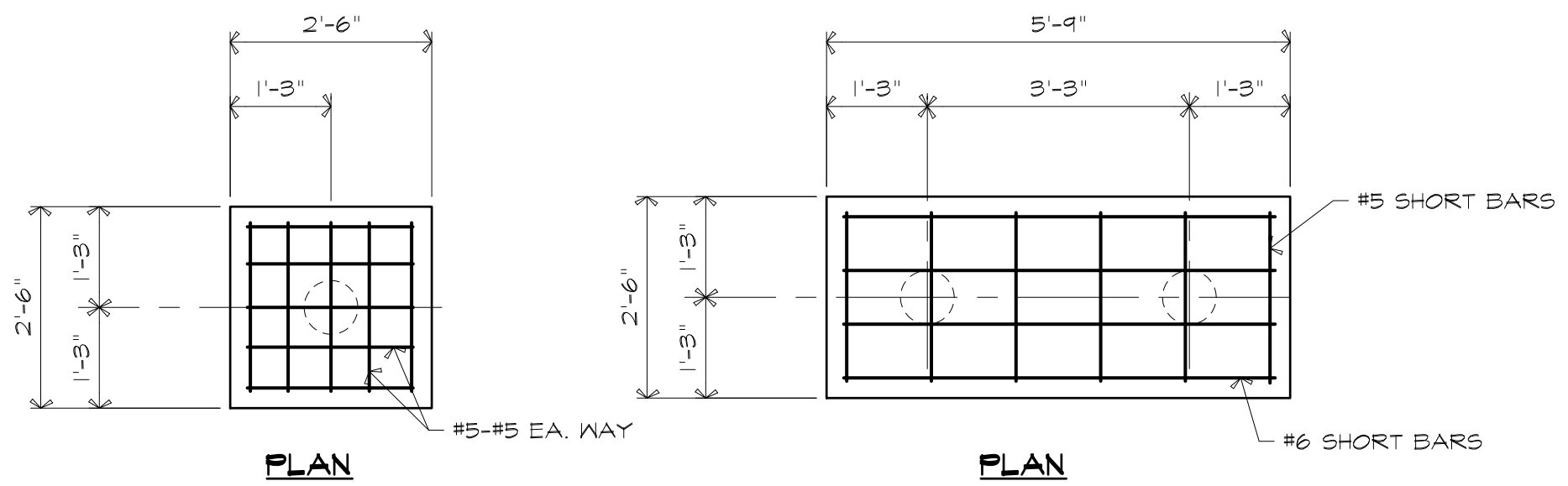
FIRST FLOOR FRAMING PLAN  
1/4"=1'-0"



FOUNDATION PLAN  
1/4"=1'-0"



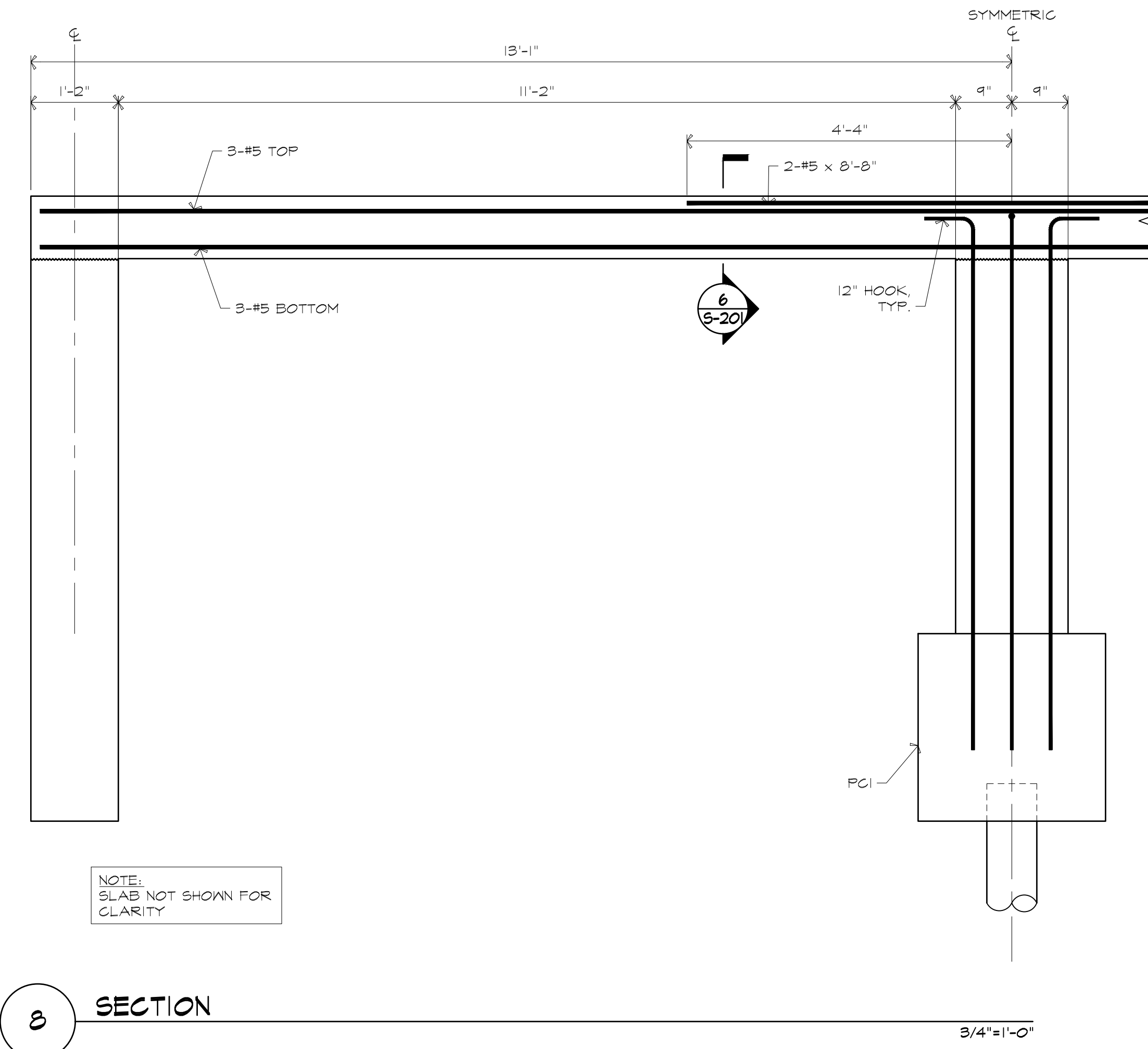
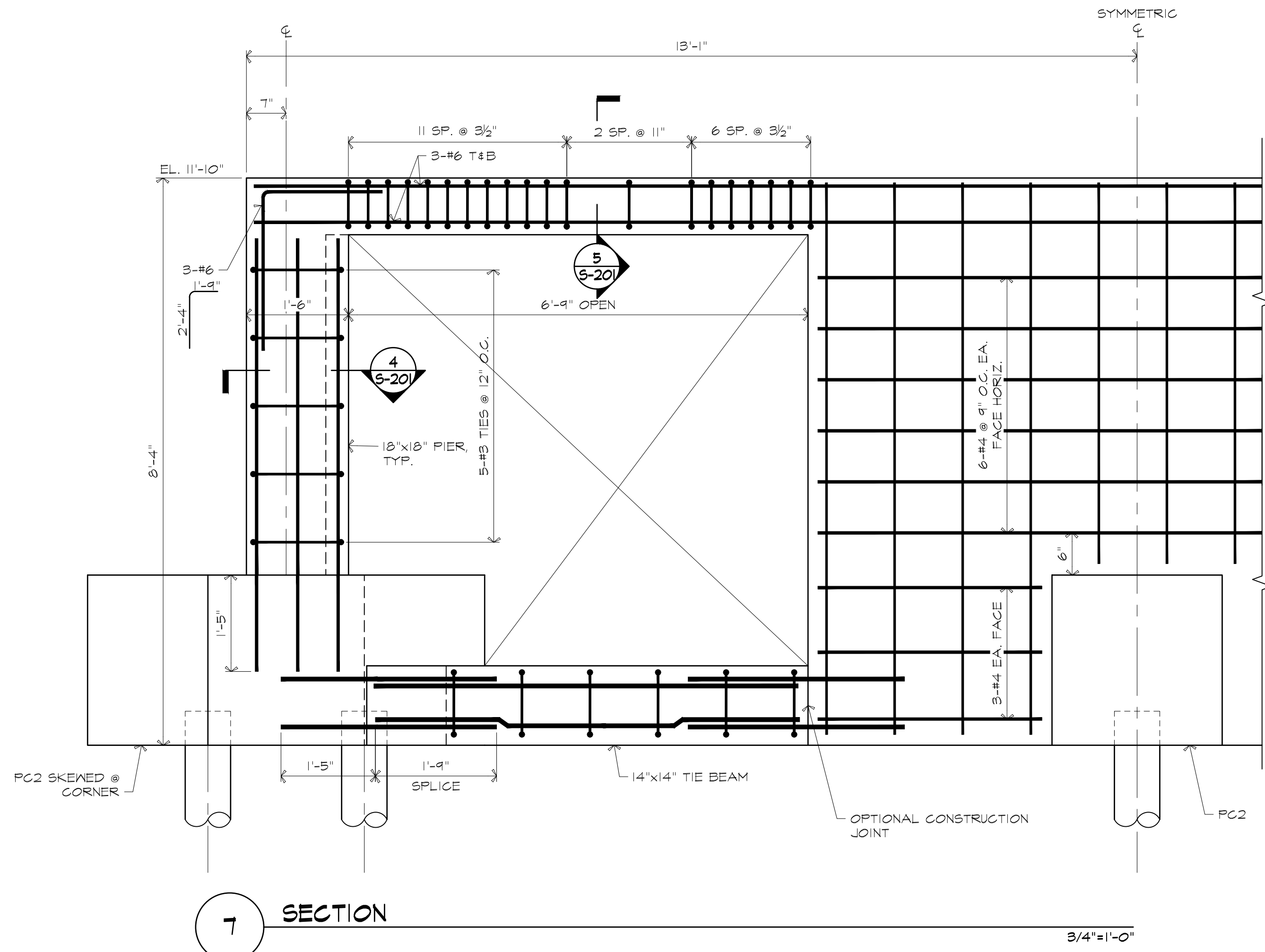
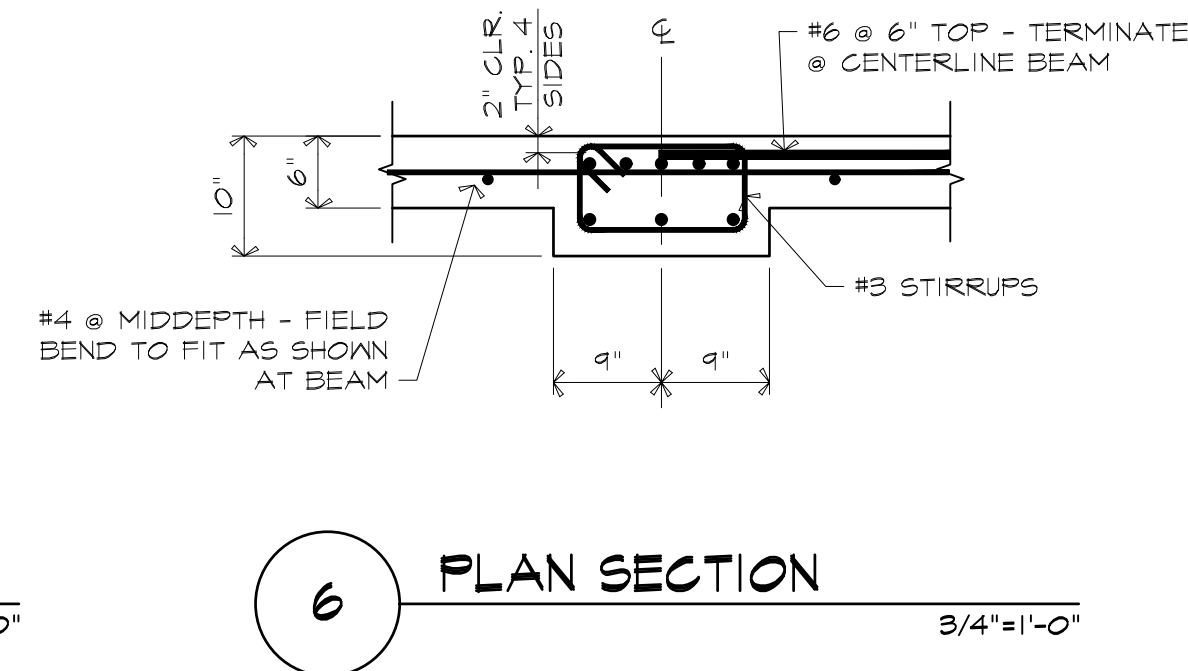
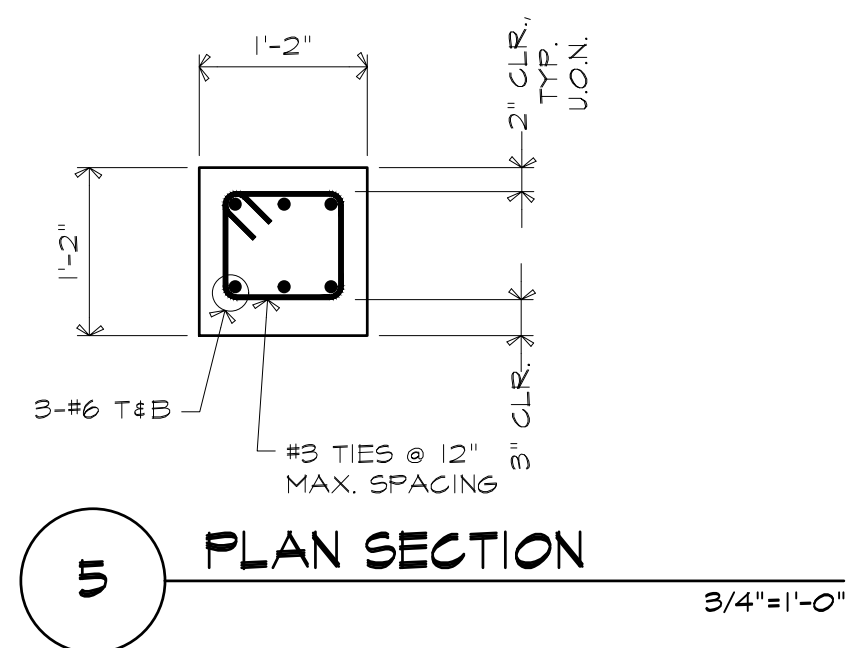
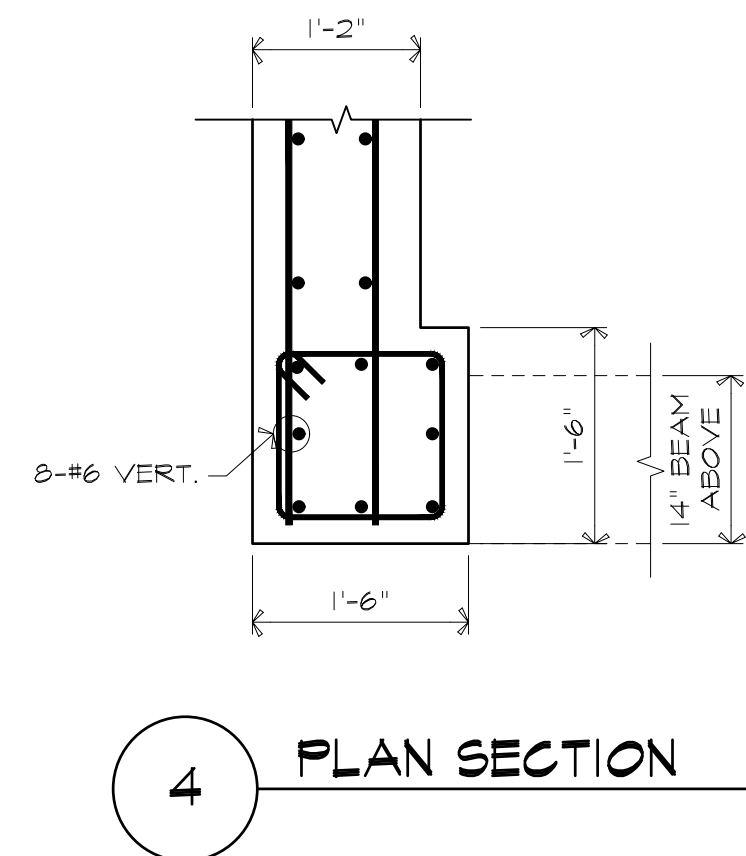
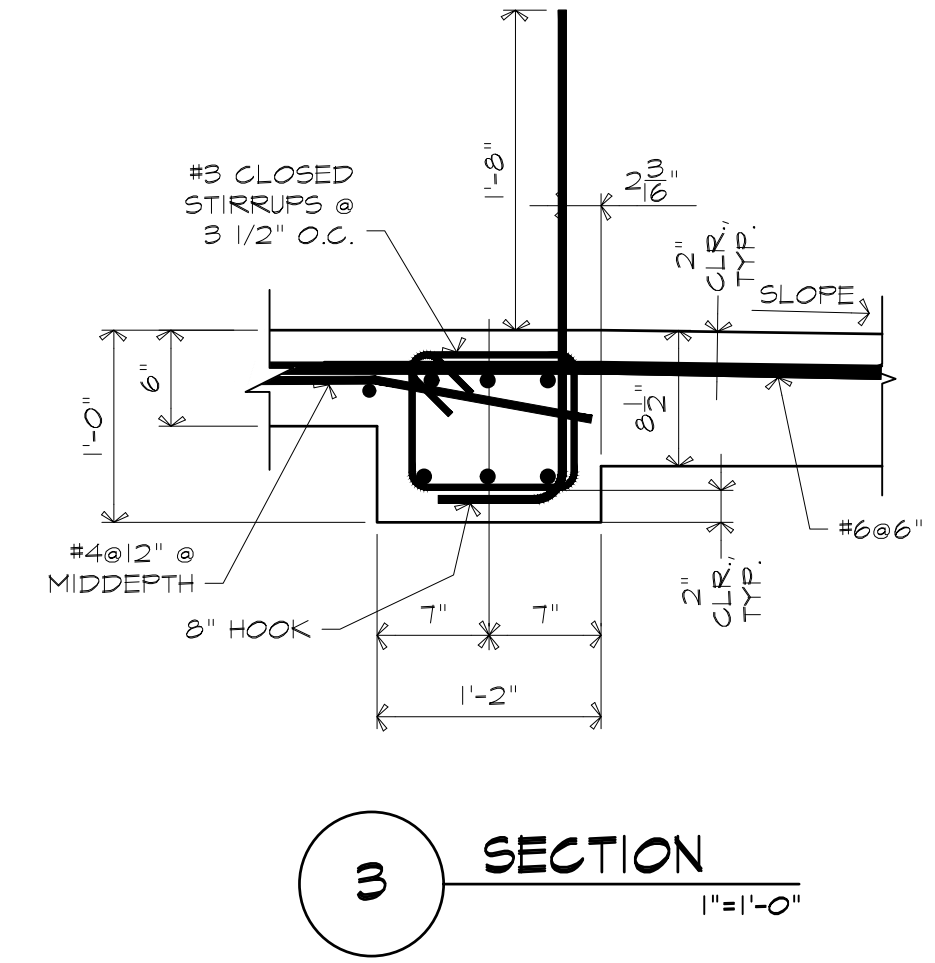
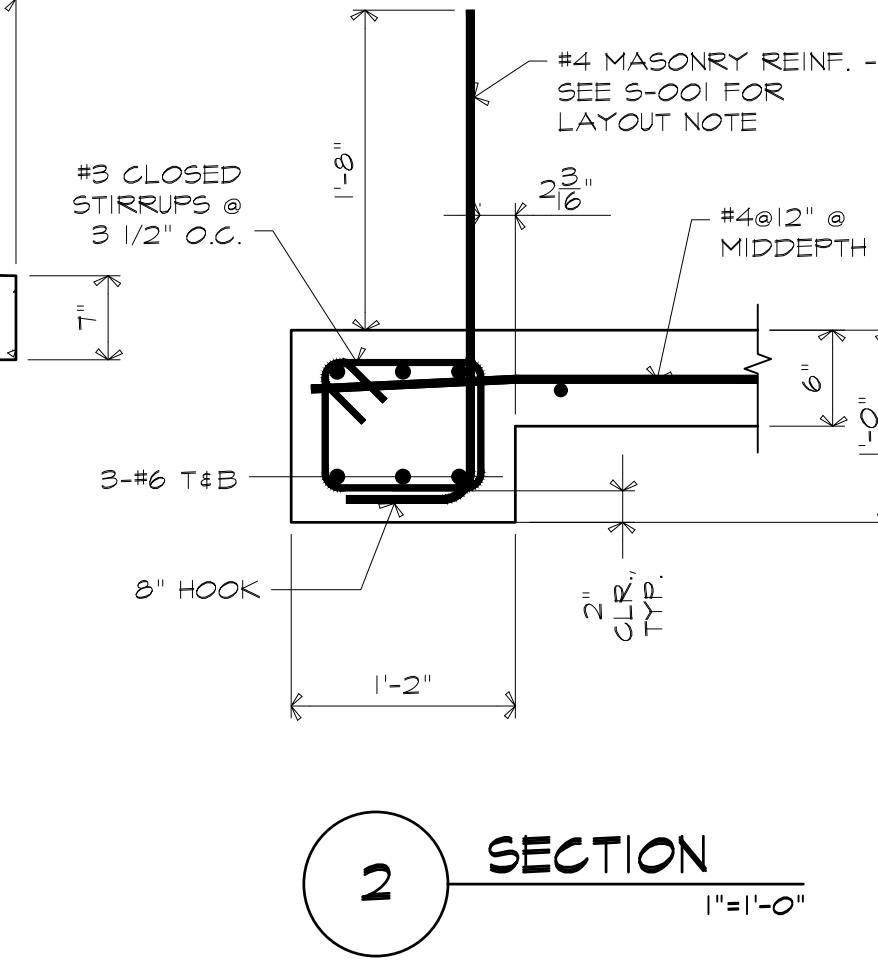
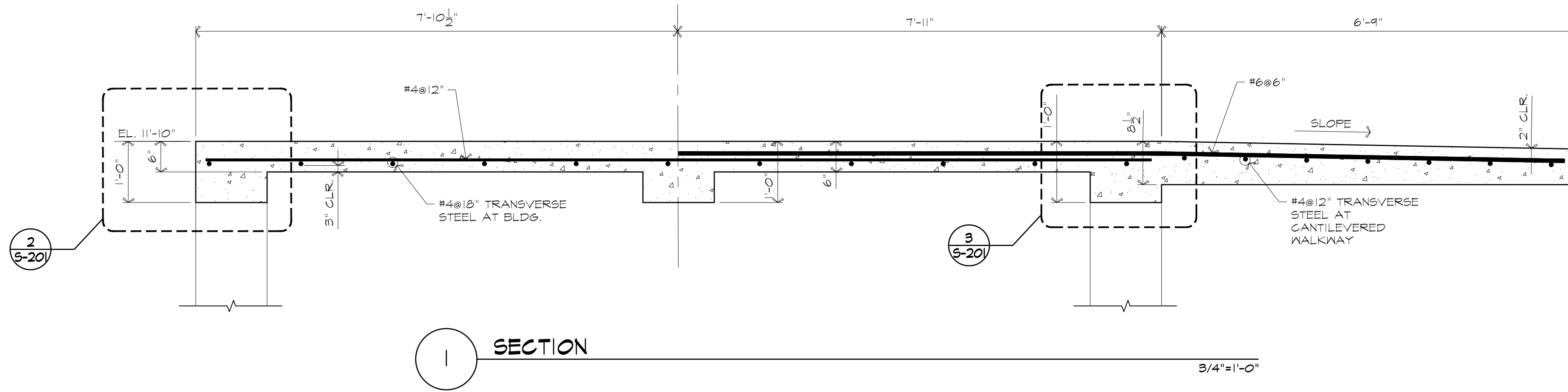
ROOF FRAMING PLAN  
1/4"=1'-0"



TYPICAL FOUNDATION CROSS SECTION  
1/2"=1'-0"

<b>Lincoln / Haney</b> Engineering Associates, Inc. 6 Federal Street Brunswick, Maine 04011 Phone: 207-729-1061 Fax: 207-729-2941	<b>S-101</b>	<b>TOWN OF DAMARISCOTTA</b> <b>WATERFRONT RESTROOMS</b> Damariscotta, Maine		STRUCTURAL PLANS, SECTIONS AND DETAILS	
		DRAWN BY: <b>SAM</b> CHECKED BY: <b>MAC</b> ISSUE DATE: <b>8-14-18</b> PROJ. NO.: <b>2017.193</b>	NO.		DATE
		REVISION			
		NO.			
		DATE			





# TOWN OF DAMARISCOTTA WATERFRONT RESTROOMS

Damariscotta, Maine

## SECTIONS AND DETAILS

DESIGNED BY	SM
CHECKED BY	MAC
ISSUE DATE	8-14-18
PROJECT	2017.193

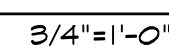
**Lincoln / Haney**  
Engineering Associates, Inc.

6 Federal Street  
Brunswick, Maine 04011  
Phone: 207-729-1061 Fax: 207-729-2941

S-201


$$1/2'' = 1' - 0'$$


SECTION


$$1/2'' = 1' - 0''$$

**Lincoln / Haney**  
Engineering Associates, Inc.  
6 Federal Street  
Brunswick, Maine 04011  
Phone: 207-729-1061 Fax: 207-729-2941

Damariscotta, Maine

## SECTIONS AND DETAILS

REVISION

DATE \_\_\_\_\_

No.

DRAWN BY  
S/W

CHK'D BY	MAC
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ISSUE DATE 8-14-88

PROJ. NO. 2017.193

S-202



PLUMBING FIXTURE CONNECTION SCHEDULE					
TAG	DESCRIPTION	SAN	VENT	CW	HW
P-1	ADA FLOOR-MOUNTED FLUSH VALVE TYPE WC	3"	2"	1"	-
P-2	ADA LAVATORY WALL MOUNTED	1-1/2"	1-1/2"	1/2"	1/2"
P-3	URINAL	3"	2"	3/4"	-
FD-1	FLOOR DRAIN	3"	2"	-	-
HB	WALL FAUCET (TAMPER RESISTANT)	-	-	3/4"	-
FFHB	WALL FAUCET (TAMPER RESISTANT)	-	-	3/4"	-
ETP	ELECTRONIC TRAP PRIMER	-	-	1/2"	-

MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2".  
PROVIDE TRAP PRIMERS ON FLOOR DRAINS, CONNECT TO NEAREST FIXTURE.  
UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS.

ELECTRIC WATER HEATER PERFORMANCE SCHEDULE									
TAG	STORAGE (GALS)	INPUT (KW)	RECOVERY @ 100°F (GPH)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN: AO Smith "Proline"			
				HP	WATTS	V/PH/Hz	SERVICE	FUEL	DIMENSIONS
EW4	10	1.65	6.8	-	1650	120/1/60	RESTROOMS	-	EJC-10 18"H x 16"W

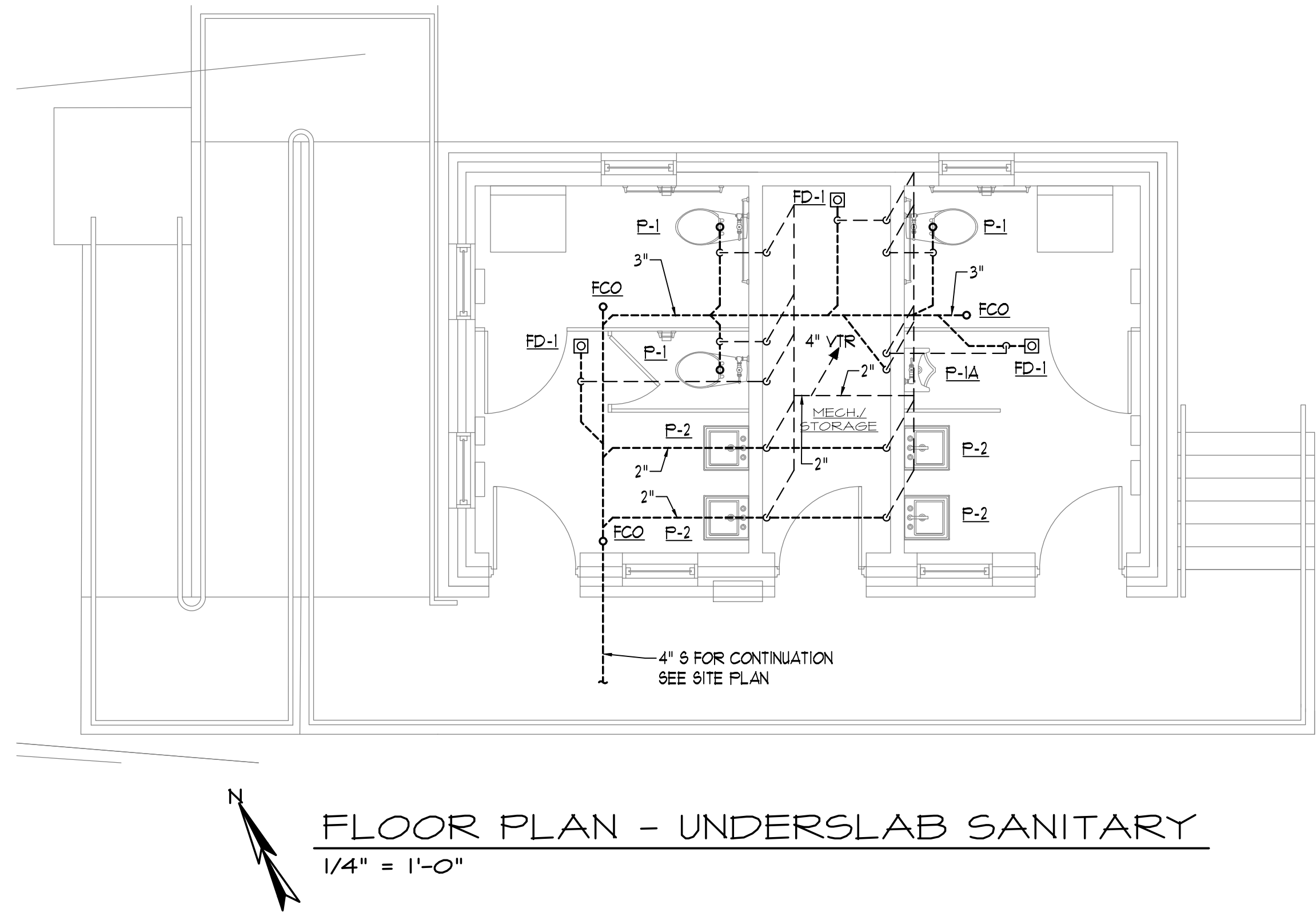
NOTE: ELECTRIC HEATING ELEMENTS SHALL BE WIRED FOR "NON-SIMULTANEOUS" OPERATION. SEE DRAWINGS FOR QUANTITIES.

TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE									
TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	WPD (PSIG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN = SYMMONS		
							SERVICE	ARRANGEMENT	MODEL
TMV	1.0	3/4"	3/4"	100	120°F	-	DOM HW	WALL	T-230

EXPANSION TANK PERFORMANCE SCHEDULE									
TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN. REQ'D. ACCEPT. VOL. (GAL)	MAX. WORK'G. TEMPERATURE (DEG F)	MAX. WORK'G. PRESSURE (PSI)	WEIGHT (LBS)	BASIS OF DESIGN = AMTROL		
							MOUNTING	SERVICE	MODEL
ET	2.0	0.9	-	200	150	15	INLINE	DOMESTIC HW	ST--5

FAN PERFORMANCE SCHEDULE												
TAG	AIRFLOW (CFM)	T.S.P (INWG)	NOISE (SONES)	RPM	DRIVE	ELECTRICAL REQUIREMENTS					BASIS OF DESIGN = FANTECH	
						HP	BHP	WATTS	AMPS	V/PH/Hz	SERVICE	MODEL
EF-1 *	220	0.3	-	2600	DIRECT	-	-	62.0	0.51	120/1/60	TOILETS/MECH	FG 6

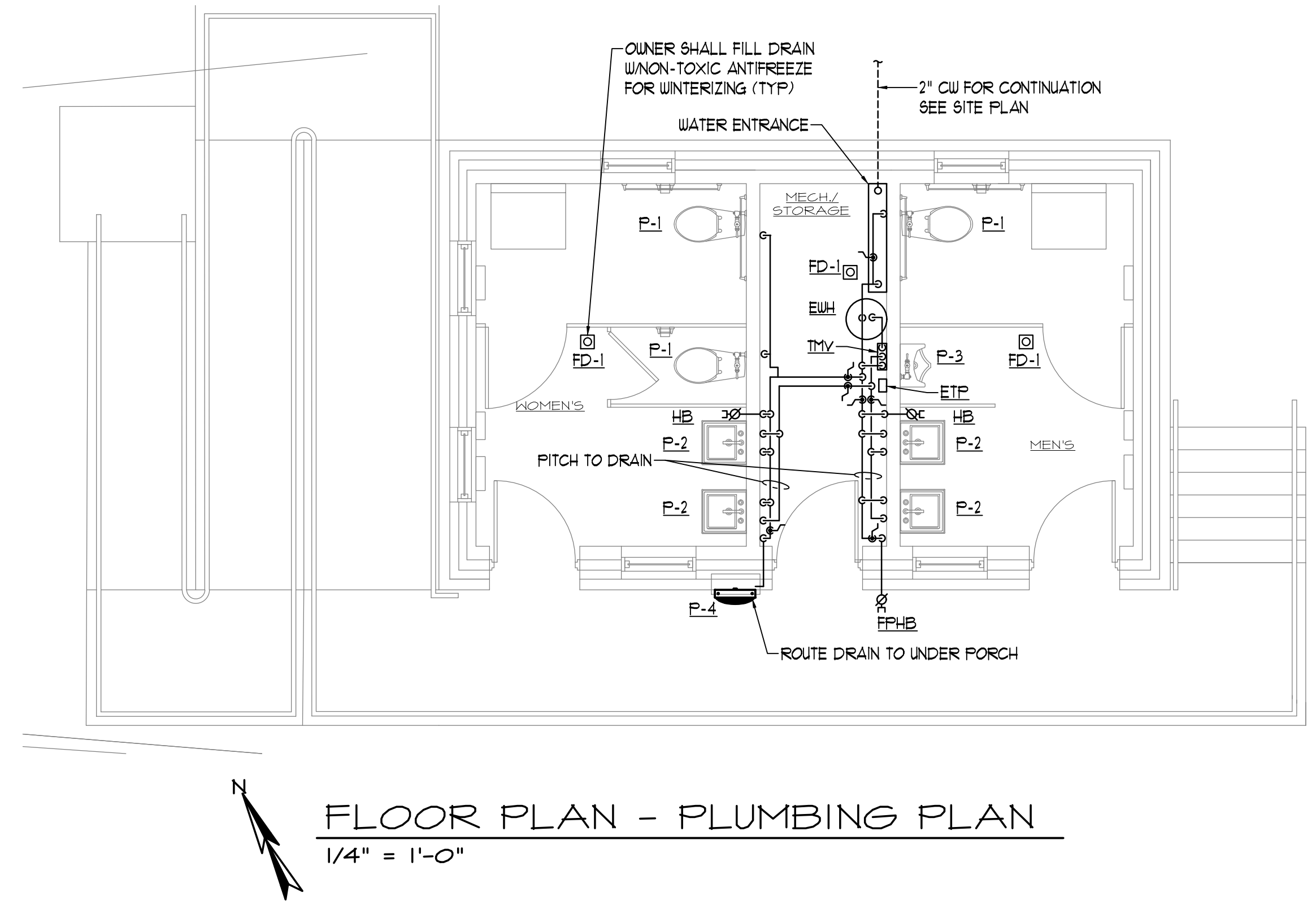
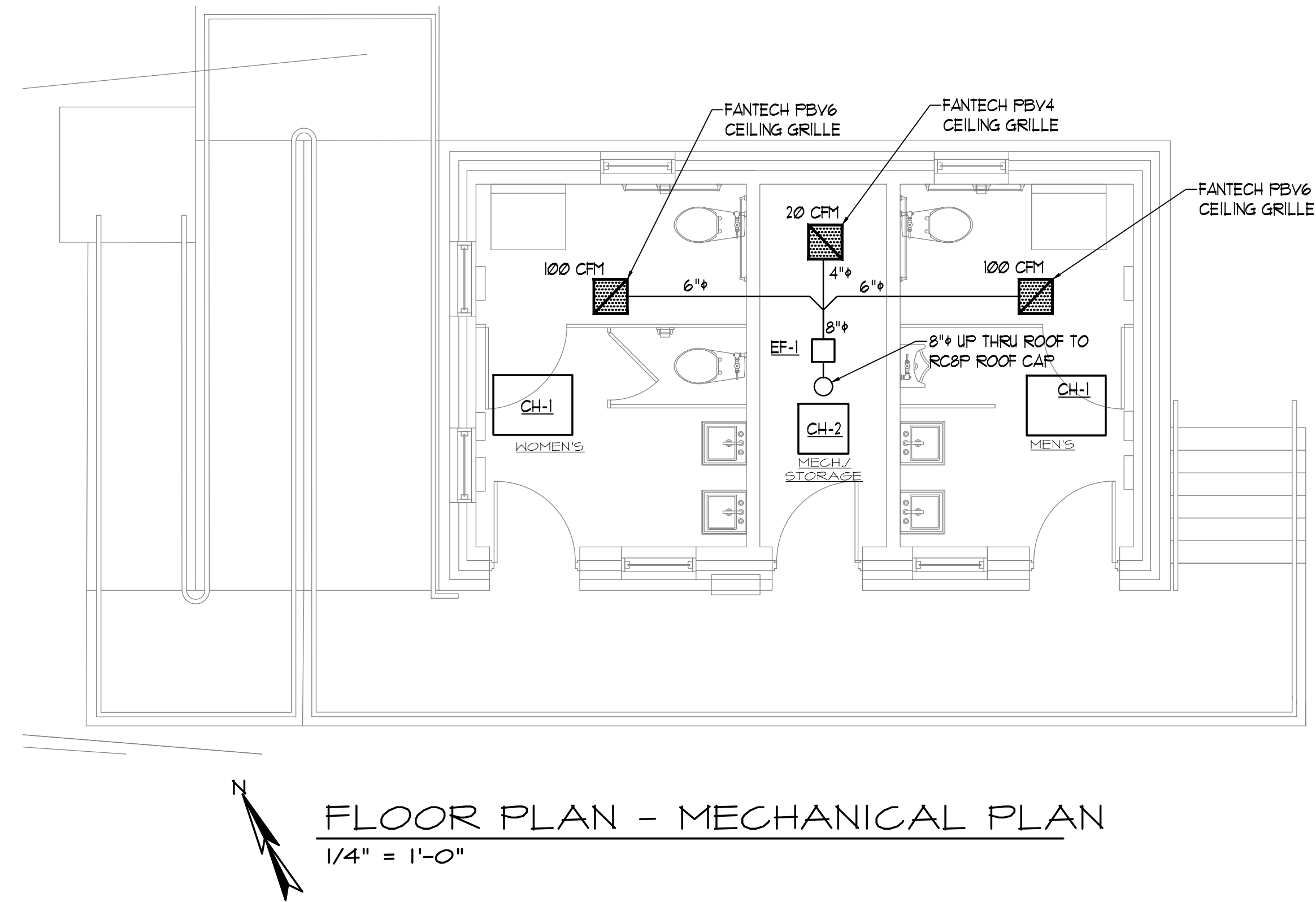
\* FAN SHALL BE CONTROLLED BY PROGRAMMABLE TIME CLOCK



BFP PERFORMANCE SCHEDULE									
TAG	SIZE	FLOW RATE (GPM)	WPD (PSI)	MAX. WORK'G. TEMPERATURE (DEGREES F)	MAX. WORK'G. PRESSURE (PSI)	TESTABLE (Y) OR (N)	BASIS OF DESIGN = ZURN-WILKINS		
							BODY STYLE	SERVICE	MODEL
BFP-1	1-1/4"	15.0	16	180	175	Y	RPZ	WATER ENTRANCE	975XL2

CABINET UNIT HEATER PERFORMANCE SCHEDULE							
TAG	CFM	VOLTS	WATTS	AMPS	SERVICE	MAKE	MODEL
CH-1	250	240 / 1	4000	16.7	MULTIPLE	BERKO	CUH-935
CH-2	300	240 / 1	2000	8.3	MECH	BERKO	FFCH-542

NOTE: CH-1 AND CH-2 SHALL BE PROVIDED WITH FUSED DISCONNECTS AND RECESS TRIM KIT.  
CH-1 SHALL BE PROVIDED WITH KEY LOCK FOR FRONT COVER  
REFER TO DRAWING PLANS FOR ALL QUANTITIES.



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Town of Damariscotta

Damariscotta, Maine

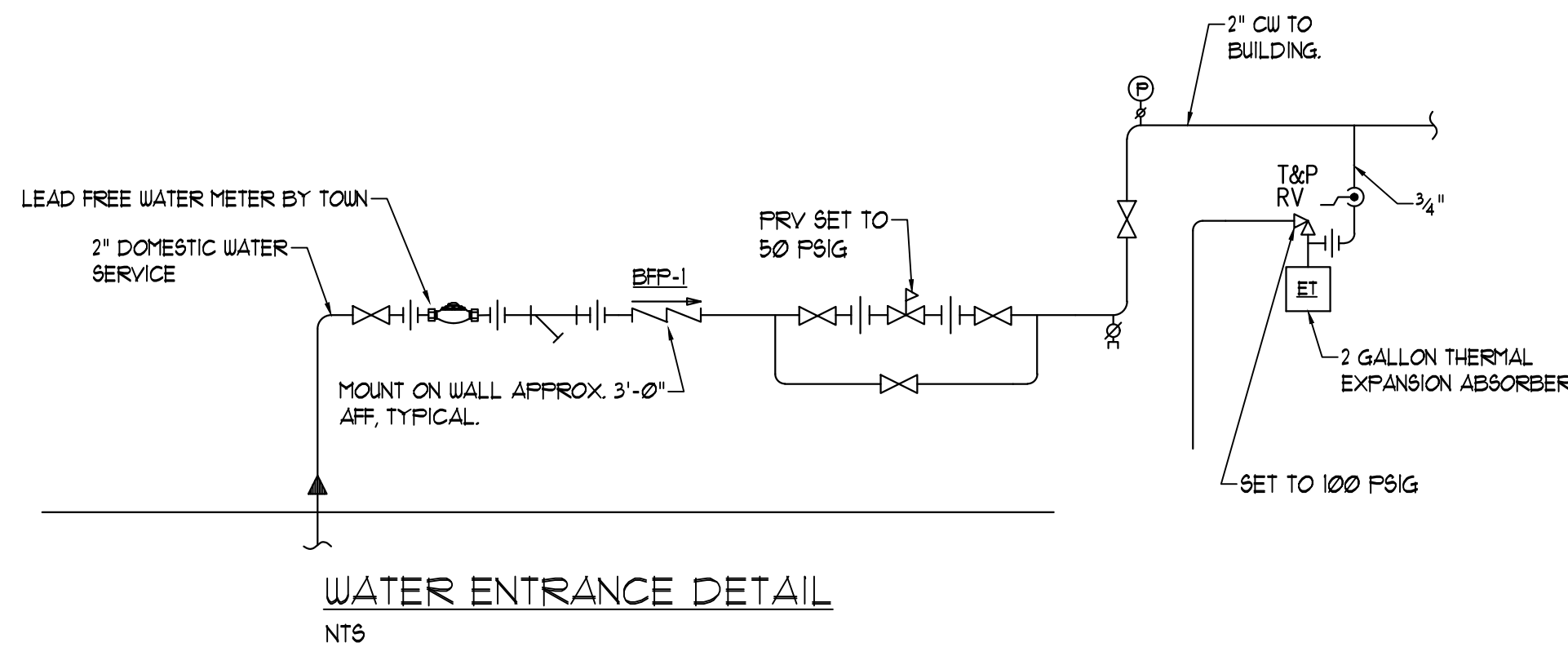
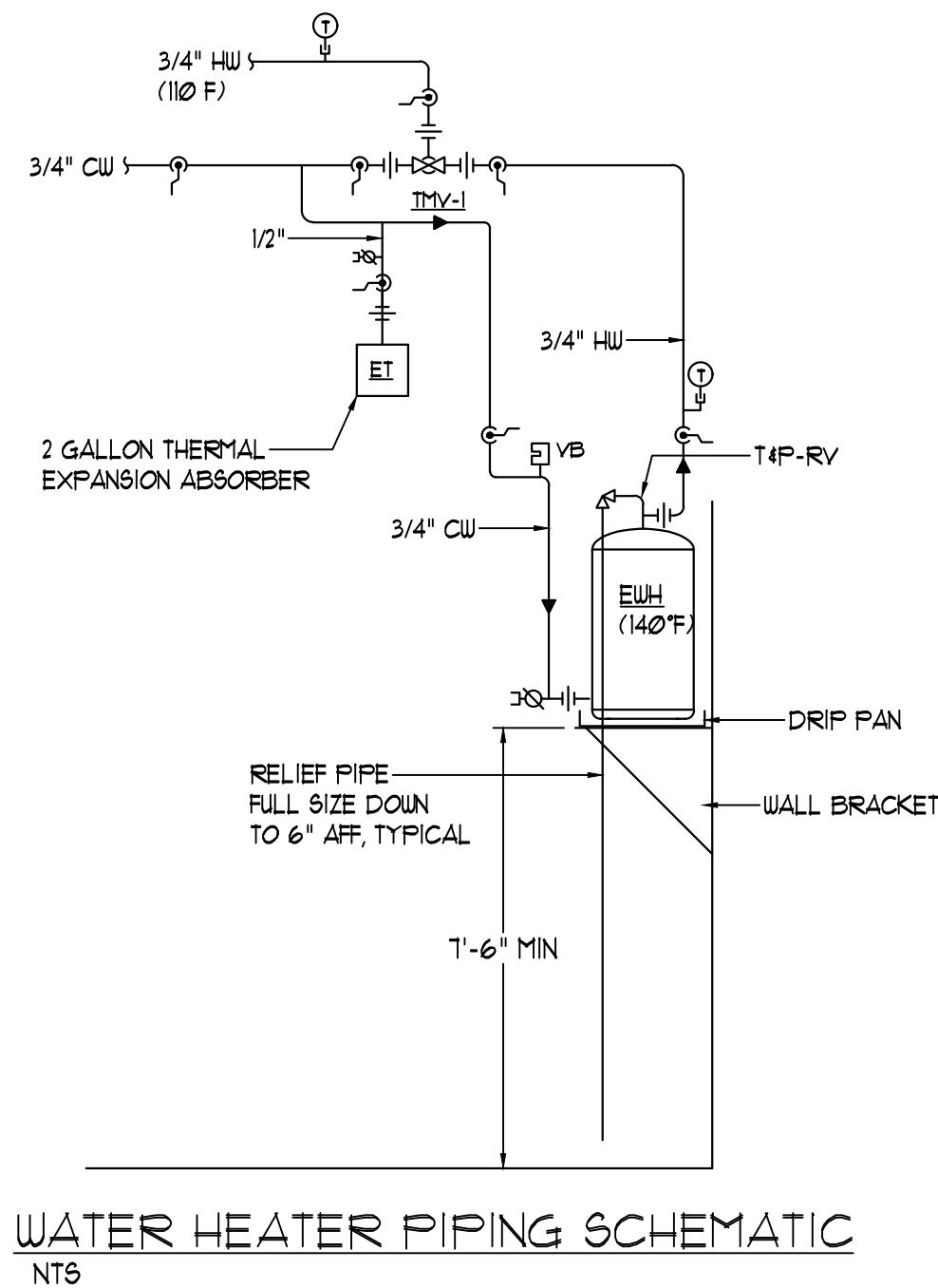
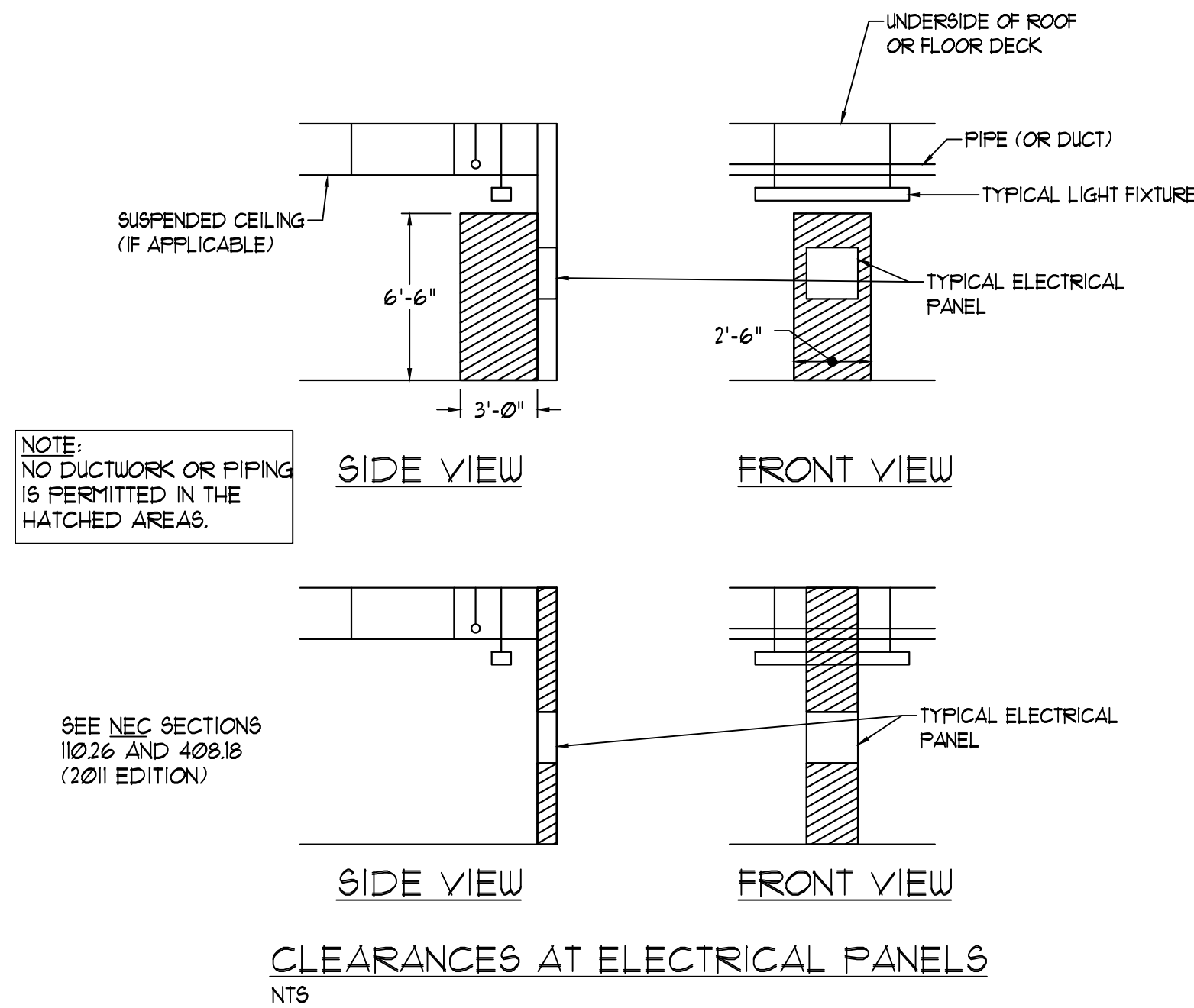
Waterfront Restroom

**BENNETT ENGINEERING**  
MECHANICAL • ELECTRICAL  
(207) 865-9475

Job No.: 13116E  
Date: 8/9/18  
Scale: 1/4" = 1'-0" or As Noted  
Drawn by: SP Doel  
Checked by: SP Doel

Drawing Title:  
**Mechanical & Plumbing Floor Plans**

**M-1**



## MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
----	SANITARY PIPING BELOW FLOOR (S)	B-*	BOILER TAG	EUB	ENTERING WET BULB	LB	POUNDS	RPZ	REDUCED PRESSURE ZONE
----	SANITARY PIPING ABOVE FLOOR (S)	BD-*	BYPASS DAMPER TAG	EWH-*	ELECTRIC WATER HEATER TAG	LD-*	LINEAR DIFFUSER TAG	RR-*	RETURN REGISTER TAG
----	SANITARY VENT PIPING (V)	BFP-*	BACKFLOW PREVENTER TAG	EUT	ENTERING WATER TEMPERATURE	LTHUS/R	LOW TEMPERATURE HOT WATER	RTU	ROOM TEMPERATURE SENSOR
----	COLD WATER PIPING (CW)	BHP	BRAKE HORSEPOWER	EXG	EXISTING	LRA	LOCKED ROTOR AMPS	RV	RELIEF VALVE
----	HOT WATER PIPING (HW)	BTUH	BRITISH THERMAL UNITS PER HOUR	EXH	EXHAUST	LWCO	LOW WATER CUTOUT	RUL	RAINWATER LEADER
----	PIPE CAP	CBD	COUNTER BALANCED DAMPER	FC	FLEXIBLE CONNECTION	LWT	LEAVING WATER TEMPERATURE	SA	SUPPLY AIR
----	DIRECTION OF FLUID FLOW	CC-*	COOLING COIL TAG	FCO	FLOOR CLEANOUT	MAX	MAXIMUM	SAN	SANITARY (DRAIN & WASTE)
----	ELBOW UP	CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER	MBH	THOUSANDS OF BTU PER HOUR	SD	SMOKE DAMPER
----	ELBOW DOWN	CHLR-*	CHILLER TAG	FD-*	FLOOR DRAIN TAG	MCA	MINIMUM CIRCUIT AMPACITY	SEER	SEASONAL ENERGY EFFICIENCY RATIO
----	PIPE TEE UP	CO	CLEANOUT	FLA	FULL LOAD AMPS	MIN	MINIMUM	SF	SUPPLY FAN
----	PIPE TEE DOWN	CUH-*	CABINET UNIT HEATER TAG	FOR	FUEL OIL RETURN	NC	NOISE CRITERION	SP	STATIC PRESSURE
----	BACKFLOW PREVENTER (BFP)	CP-*	CIRCULATING PUMP TAG	FOS	FUEL OIL SUPPLY	NIC	NOT IN CONTRACT	SP-*	SUMP PUMP TAG
----	CHECK VALVE	CT-*	COOLING TOWER TAG	FFHB	FROST PROOF HOSE BIBB	NTS	NOT TO SCALE	SR-*	SUPPLY REGISTER TAG
----	RELIEF VALVE (RV)	CV	VALVE COEFFICIENT	FFM	FEET PER MINUTE	OA	OUTSIDE AIR	SQFT	SQUARE FEET
----	GATE VALVE	CW	COLD WATER	FS-*	FLOOR SINK TAG	OBD	OPPOSED BLADE DAMPER	ΔT	TEMPERATURE DIFFERENTIAL
----	PRESSURE REDUCING VALVE	CHUS/R	CHILLED WATER SUPPLY AND RETURN	FT	FEET	OD	OUTSIDE DIAMETER	TEMP.	TEMPERATURE
----	STRAINER W/BLOWDOWN BALL VALVE	DB	DRY BULB	FTR-*	FINTUBE RADIATION TAG	OED	OPEN ENDED DUCT	TCP	TEMPERATURE CONTROL PANEL
----	BALL VALVE	dB RE	DECIBELS RELATIVE TO	GAGE	GAGE	ORUL	OVERFLOW RAINWATER LEADER	TMV-*	THERMOSTATIC MIXING VALVE TAG
----	3/4" BALL VALVE WITH 3/4" HOSE END	DC	DOUBLE CHECK	GAL	GALLONS	ORUH-*	OIL FIRED WATER HEATER TAG	TSP	TOTAL STATIC PRESSURE
----	UNION	DCA	DOUBLE CHECK ATMOSPHERIC	GFUH-*	GAS FIRED WATER HEATER TAG	ORD	OVERFLOW ROOF DRAIN	TYP	TYPICAL
----	AIRFLOW OUT	DEG F	DEGREES FAHRENHEIT	GPH	GALLONS PER HOUR	OPD	OVERCURRENT PROTECTIVE DEVICE	UH-*	UNIT HEATER TAG
----	AIRFLOW IN	DIA	DIAMETER	GPM	GALLONS PER MINUTE	P-*	PLUMBING FIXTURE TAG	UNO	UNLESS NOTED OTHERWISE
----	CONNECT NEW TO EXISTING	DIW	DOWN IN WALL	GUH-*	GAS UNIT HEATER TAG	PENETN	PENETRATION	VAV-*	VARIABLE AIR VOLUME BOX TAG
----	AUTOMATIC AIR VENT	DN	DOWN	HC-*	HEATING COIL TAG	FF-*	PADDLE FAN TAG	VB	VACUUM BREAKER
----	ACCESS DOOR	EA	EXHAUST AIR	HP	HORSEPOWER	FSIA	FOUNDS PER SQUARE INCH ABSOLUTE	VFD	VARIABLE FREQUENCY INVERTER DRIVE
----	ABOVE FINISHED FLOOR	EAT	ENTERING AIR TEMPERATURE	HRV-*	HEAT RECOVERY VENTILATOR TAG	PSIG	POUNDS PER SQUARE INCH GAGE	VTR	VENT THRU ROOF
----	AIRFLOW MONITORING STATION	EDB	ENTERING DRY BULB	HWS/R	HOT WATER SUPPLY AND RETURN	PVC	POLYVINYL CHLORIDE (PIPE)	V/PH/Hz	VOLTS/PHASES/HERTZ
----	AMPERES	EDC-*	ELECTRIC DUCT COIL TAG	I=B+R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS	RA	RETURN AIR	WB	WET BULB
----	AP	EER	ENERGY EFFICIENCY RATIO	IFUWH-*	INDIRECT FIRED WATER HEATER TAG	RD	ROOF DRAIN	WCO	WALL CLEANOUT
----	APD	EFF	EFFICIENCY	IN	INCHES	RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS	WG	WATER GAGE
----	AIR SEPARATOR TAG	EG-*	EXHAUST GRILLE TAG	IV-*	INTAKE VENT TAG	RFM-*	RADIANT FLOOR MANIFOLD TAG	WPD	WATER PRESSURE DROP
----	AUTOMATIC TEMPERATURE CONTROL	ER-*	EXHAUST REGISTER TAG	L-*	LOUVER TAG	RHW	RECIRCULATED HOT WATER	WSA	WIRE SIZING AMPS
		ESP	EXTERNAL STATIC PRESSURE	LAT	LEAVING AIR TEMPERATURE	RLA	RUNNING LOAD AMPS	WTD	WATER TEMPERATURE DROP
		ET-*	EXPANSION TANK TAG			RPM	REVOLUTIONS PER MINUTE	W/	WITH
						RPS	REVOLUTIONS PER SECOND	ZD-*	ZONE DAMPER TAG

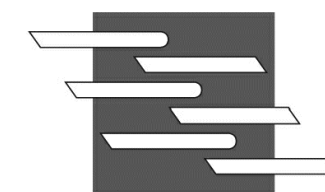
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Revisions  
08.18.18 FINAL DESIGN REVIEW

Town of Damariscotta

Damariscotta, Maine

Waterfront Restroom



**BENNETT  
ENGINEERING**  
MECHANICAL • ELECTRICAL  
(207) 865-9475

Job No.: 13116E  
Date: 8/9/18  
Scale: 1/4" = 1'-0" or As Noted  
Drawn by: SP Doel  
Checked by: SP Doel

Drawing Title:  
**Mechanical Details  
& Legend**

**M-2**



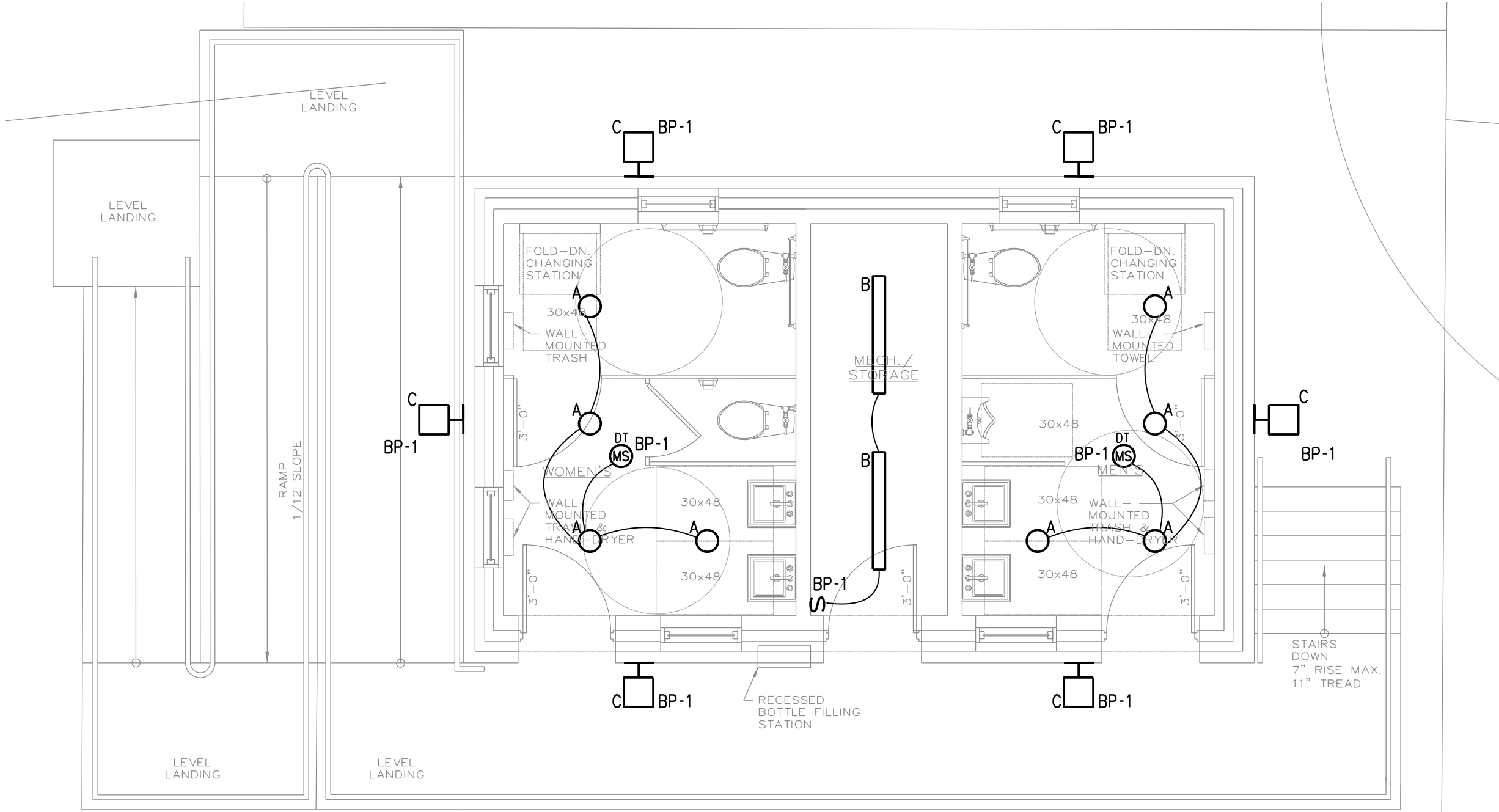
GENERAL NOTES

1. NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY, COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
2. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
3. MOUNT PANELS IN RESIDENTIAL SPACES SO NO CIRCUIT BREAKER HANDLE IS HIGHER THAN 44" AFF.
4. ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED, ALL WIRING SHALL BE 2\*12 AWG AND #12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG.
5. FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (2.5 x FLA). SIZE IN THE FIELD IN ACCORDANCE WITH MFR'S RECOMMENDATION.
6. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
7. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
8. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
9. LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
10. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.
11. THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.
12. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
13. OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 - ARTICLE 406.9.
14. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
15. PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT OBTAIN VALUES FROM ENGINEER.
16. PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24
17. OUTLETS INSTALLED IN FIRE RATED WALLS BACK TO BACK SHALL BE SEPARATED BY 24" MINIMUM OR BE PROTECTED WITH "PUTTY PADS" PER 2009 INTERNATIONAL BUILDING CODE SECTION 713.3.2
18. PROVIDE AIR VAPOR BARRIER BOXES FOR WIRING DEVICES IN EXTERIOR WALLS AND INTERIOR SOUND CONTROL WALLS BETWEEN RESIDENT ROOMS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LESSCO MODEL NUMBER: VAPORBOX
19. MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE #12.

SYMBOL LEGEND

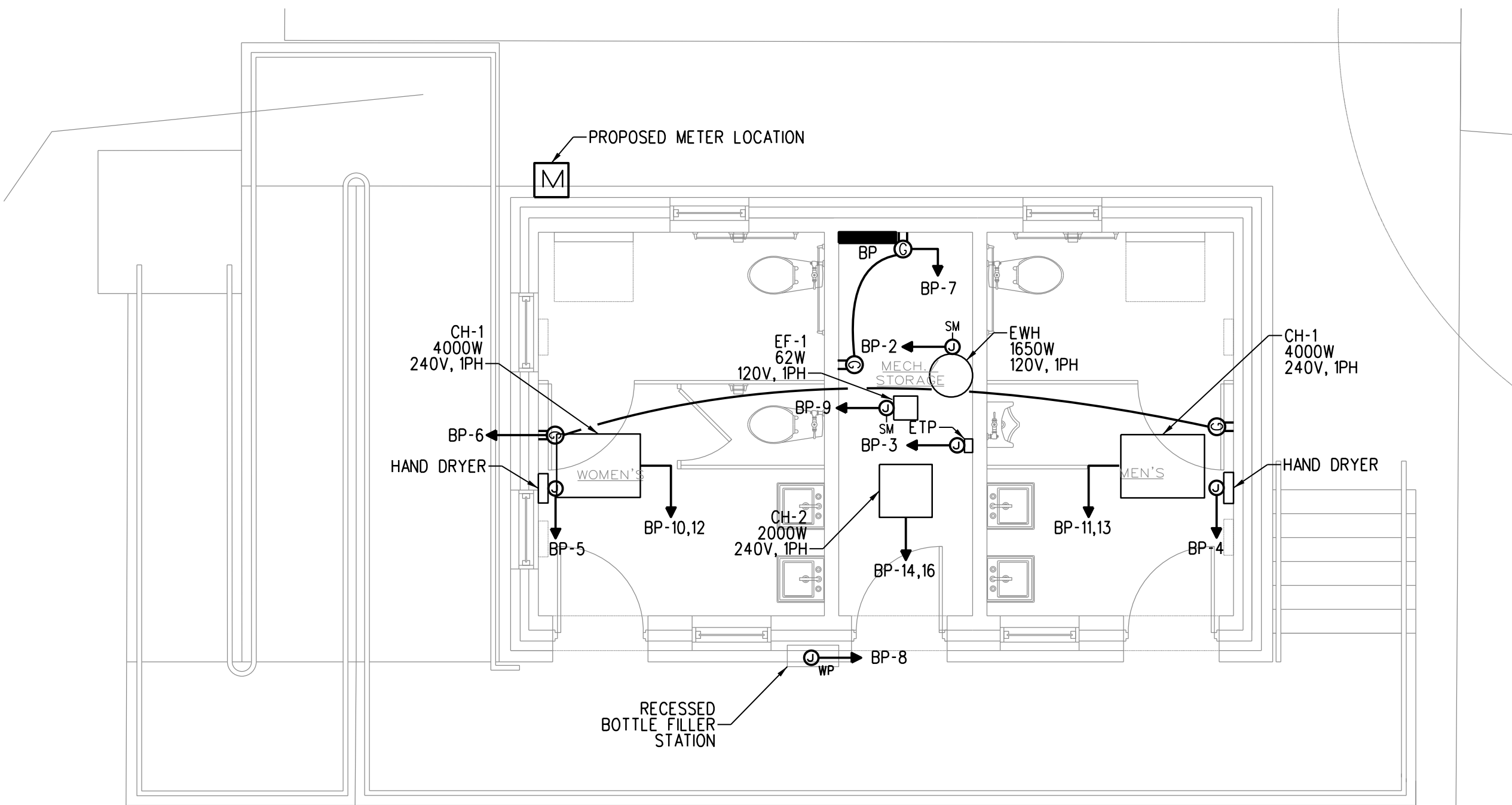
- SURFACE MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- RECESSED MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- SM MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE MOUNTED AT UNIT
- DISCONNECT SWITCH, SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING. PROVIDED BY EC UNLESS NOTED OTHERWISE. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER.
- ⊕ DUPLEX RECEPTACLE, 20A, 125V, SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- ⊕⊕ GROUND FAULT DUPLEX RECEPTACLE, 20A, 125V, TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF UNLESS OTHERWISE NOTED.
- A } LIGHTING FIXTURES, CAPITAL LETTERS DENOTE TYPE PER  
D } LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE  
O } SWITCH CONTROL. "ob" INDICATES INBOARD LAMPS CONTROLLED  
BY OUTBOARD SWITCHED "o" AND "b". DIAGONAL OR "NL"  
INDICATES NIGHT LIGHT (UNSWITCHED).
- MS OMNIFLOW VOLTAGE DUAL TECHNOLOGY ULTRASONIC AND PIR OCCUPANCY SENSOR. DEVICES SHALL PROVIDE FULL COVERAGE IN AREAS INSTALLED.
- LCP LIGHTING CONTROL PANEL-HUBBELL CX LIGHTING CONTROL PANEL 4 RELAY WITH DIMMING CARD OPTION
- SMS WALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED
- S SINGLE POLE SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- PC HUBBELL DAYLIGHTING PHOTOCELL SENSOR
- LC LIGHTING CONTACTOR
- TC TIMECLOCK
- ▼ TELEPHONE/DATA DUAL JACK, MOUNT 18" AFF, RUN TWO CABLES BACK TO TBB. SEE SPECIFICATIONS FOR FURTHER INFORMATION
- ▼ DATA JACK, RUN TWO CABLES BACK TO TBB. SEE SPECIFICATIONS FOR FURTHER INFO
- ▼ TELEPHONE JACK, MOUNT 18" AFF UNLESS NOTED OTHERWISE, RUN ONE CABLE BACK TO TBB.
- TELEPHONE BACK BOARD

LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMPS QUANTITY & TYPE	REMARKS
A	PRESCOLITE LITEBOX 7" LDSLEDA10L-27K-9-WH	16.4W LED, 1032 LUMENS	EXTERIOR SURFACE MOUNT DOWNLIGHTS
B	LUMINAIRE LED VPF44-40W-3000K-120/277-CP-BLK	40W LED, 4380 LUMENS	4FT CEILING MOUNTED FIXTURE, CONFIRM FINISH WITH ARCH/OWNER
C	HUBBELL LIGHTING LNC SERIES LNC-7LU-3K-3-finish-PCU	17W LED, 1,392 LUMENS	EXTERIOR BUILDING MOUNTED WALLPACK w/ INTEGRAL PHOTOCELL. CONFIRM FINISH & MOUNTING HEIGHT w/ ARCH



LIGHTING FLOOR PLAN

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



ELECTRICAL FLOOR PLAN

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

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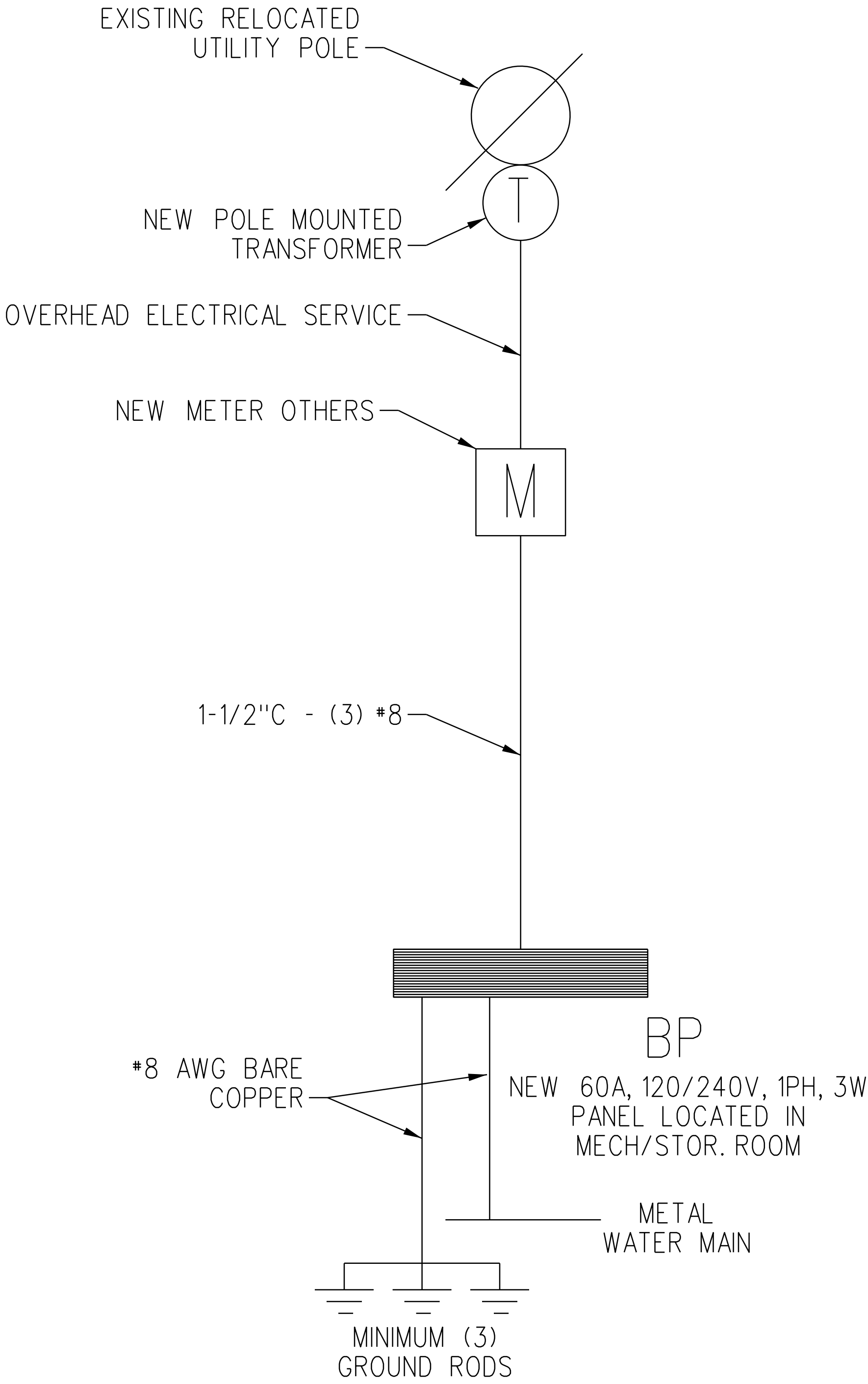
Waterfront Restroom

**BENNETT ENGINEERING**  
MECHANICAL • ELECTRICAL  
(207) 865-9475

Job No.: 13116E  
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Drawn by: CAT  
Checked by: SAJ

Drawing Title:  
**Electrical & Lighting Plans**

E-1



ONE LINE DIAGRAM  
SCALE: NONE

PANEL BP (BATHHOUSE PANEL) 120/240 1PH 3W 60AMP BUS - MCB 22K AIC NEMA TYPE 1 (SURFACE)													
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AF	P	CA	DF	DA
1	LIGHTS	20	1	3	0.80	2	2	EW-H-ELECTRIC WATER HEATER	20	1	14	0.80	11
3	ETP	20	1		1.00	0	4	MENS HAND DRYER	20	1	12	0.70	8
5	WOMENS HAND DRYER	20	1	12	0.70	8	6	GF RECEPTACLES IN BATHROOMS	20	1	5	0.50	3
7	GF RECEPTACLES IN MECH/STORAGE	20	1	5	0.50	3	8	RECESSED BOTTLE FILLING STATION (GFI BRKR)	20	1		1.00	0
9	EF-1	20	1	1	1.00	1	10	CH-1: WOMENS	25	2	17	1.00	17
11	CH-1: MENS	25	2	17	1.00	17	12					1.00	0
13						1.00	0	14				8	1.00
15						0	16	CH-2: MECH/STORAGE	20	2		1.00	0
17						0	18						0
19						0	20						0
21						0	22						0
23						0	24						0

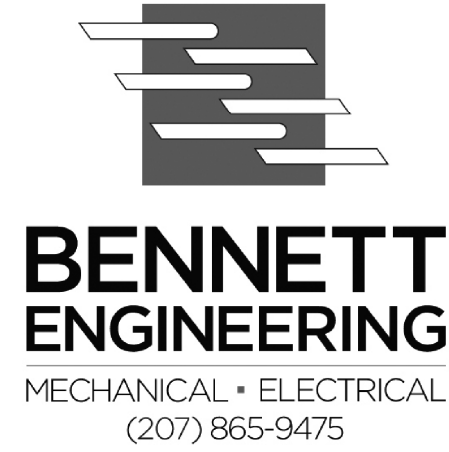
PROGRESS PRINT  
NOT FOR CONSTRUCTION

Revisions  
08.18.18 FINAL DESIGN REVIEW

Town of Damariscotta

Damariscotta, Maine

Waterfront Restroom



Job No.: 13116E  
Date: 8/9/18  
Scale: 1/4" = 1'-0" or As Noted  
Drawn by: CAT  
Checked by: SAJ

Drawing Title:  
One-Line Diagram &  
Panel Schedule