

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## CREW QUARTERS WALDOBORO LINCOLN COUNTY

WIN # 028559.00

### SPECIFICATIONS

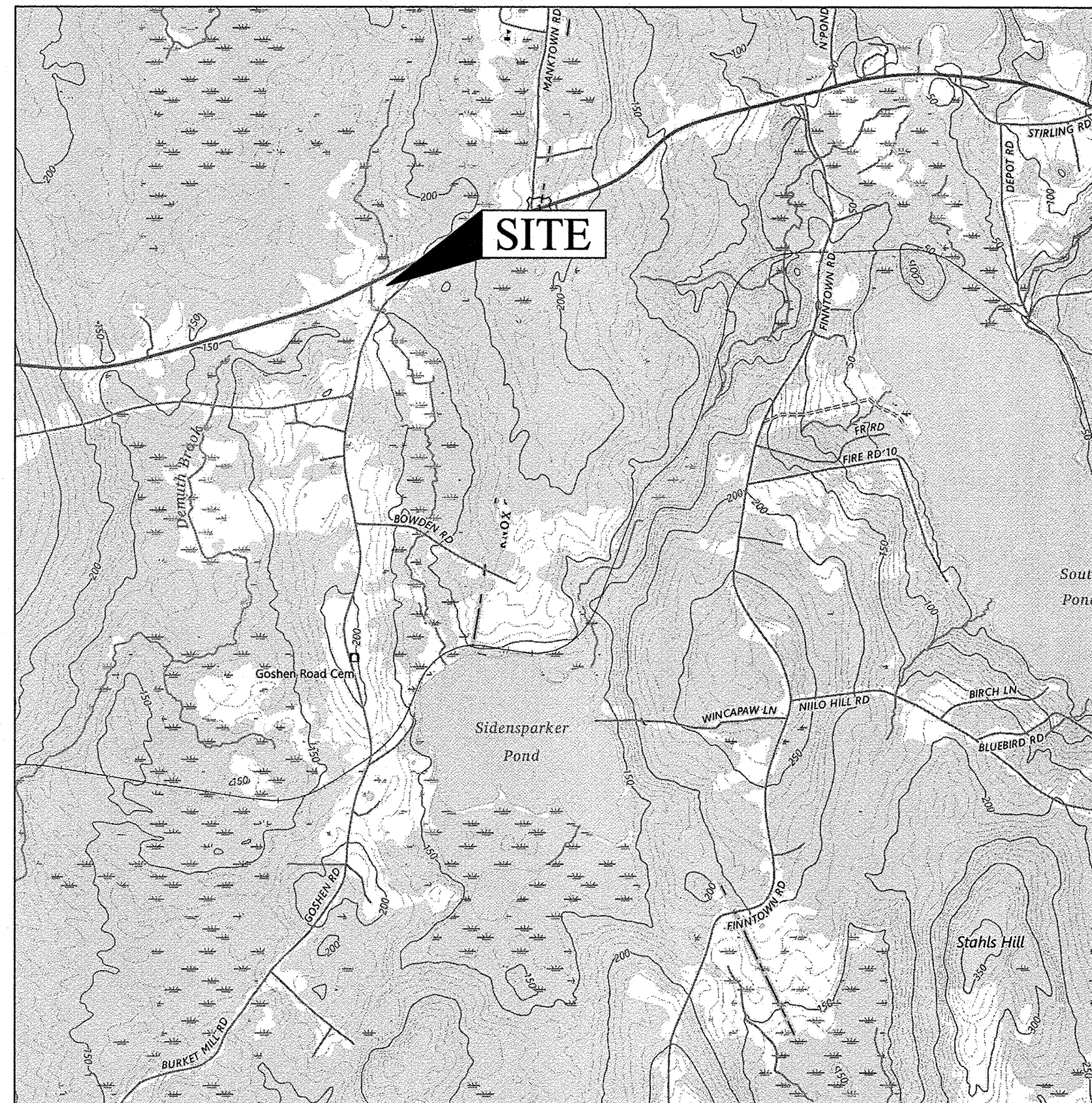
DESIGN: INTERNATIONAL BUILDING CODE 2021  
ACI 318-08

### DESIGN LOADING

LIVE LOAD SLAB-ON-GRADE 100 PSF  
UNIFORM LOAD  
GROUND SNOW LOAD 50 PSF  
WIND SPEED 115 MPH

### MATERIALS

REINFORCING STEEL ASTM A615, GRADE 60



LOCUS MAP NOT  
TO SCALE

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PROJECT LOCATION	WALDOBORO
PROGRAM AREA	MAINTENANCE & OPERATIONS
SCOPE OF WORK	CREW QUARTERS DESIGN

### CONSULTANTS:

TRILLIUM ENGINEERING GROUP  
189 MAIN STREET SUITE 200  
YARMOUTH, ME 04096

DAVID MATERO ARCHITECTURE  
49 CENTRE STREET  
BATH, ME 04530

BENNETT ENGINEERING  
7 BENNETT ROAD,  
FREEPORT, ME 04032

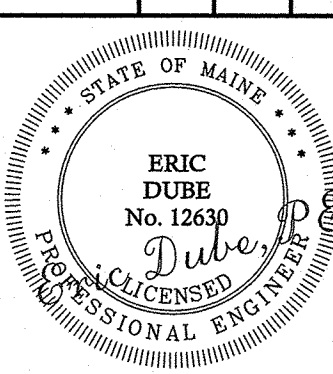
STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE

ACTING COMMISSIONER: *[Signature]*  
12-31-25

CHIEF ENGINEER: *[Signature]*  
12-31-2025



ME-12630  
PE NUMBER  
OCT. 2025  
DATE

DATE  
OCT. 2025

BY  
ED

FOR BID

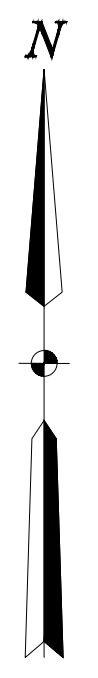
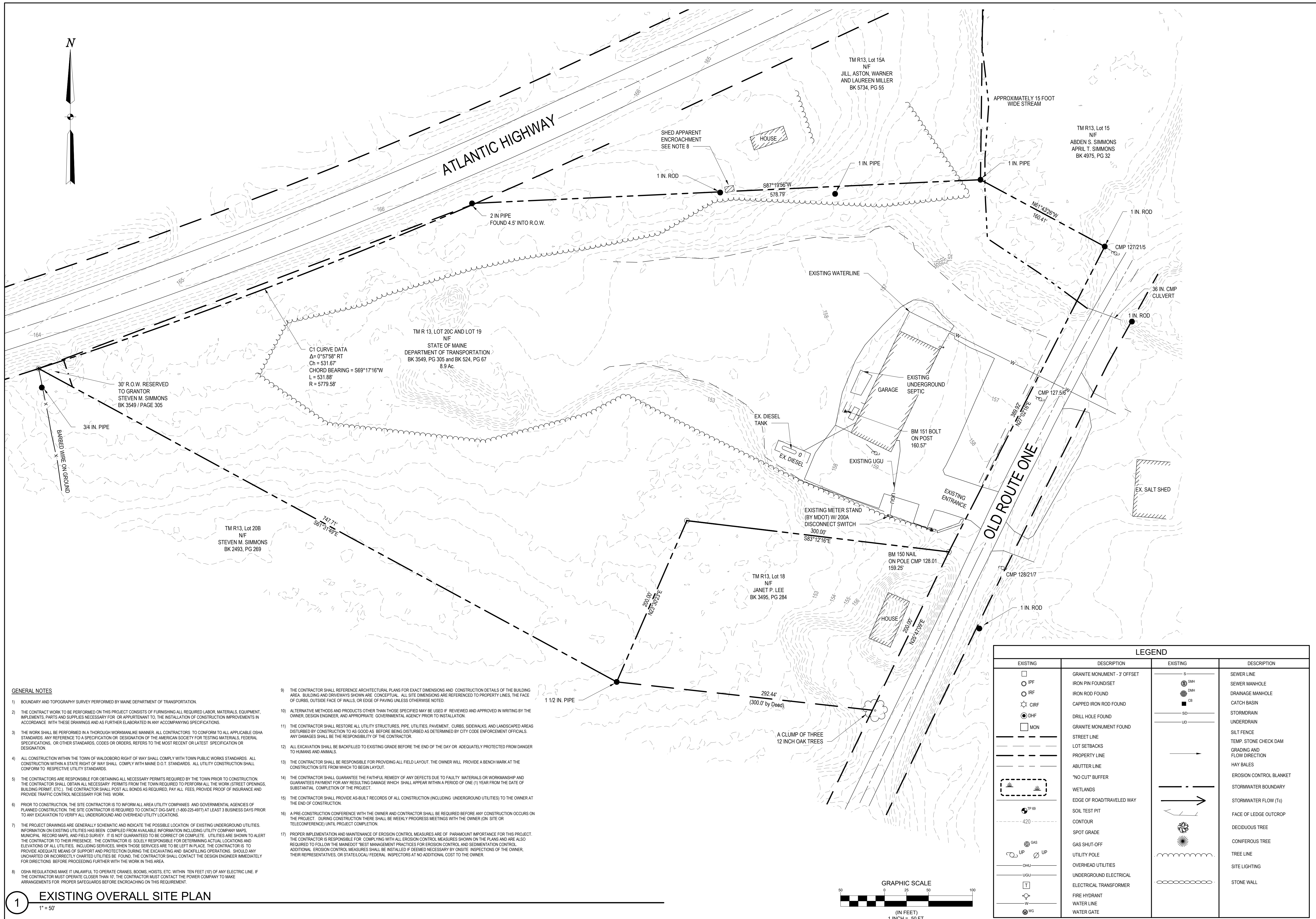
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OCT. 2025

MDOT CREW QUARTERS  
WALDOBORO, MAINE

COVER SHEET

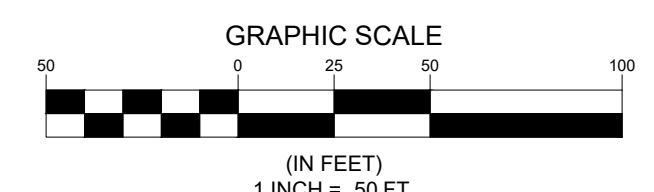
SHEET NUMBER

1



- GENERAL NOTES**
- BOUNDARY AND TOPOGRAPHY SURVEY PERFORMED BY MAINE DEPARTMENT OF TRANSPORTATION.
  - THE CONTRACT WORK TO BE PERFORMED ON THIS PROJECT CONSISTS OF FURNISHING ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, IMPLEMENTS, PARTS AND SUPPLIES NECESSARY FOR OR APPURTENANT TO, THE INSTALLATION OF CONSTRUCTION IMPROVEMENTS IN ACCORDANCE WITH THESE DRAWINGS AND AS FURTHER ELABORATED IN ANY ACCOMPANYING SPECIFICATIONS.
  - THE WORK SHALL BE PERFORMED IN A THOROUGH WORKMANLIKE MANNER. ALL CONTRACTORS TO CONFORM TO ALL APPLICABLE OSHA STANDARDS. ANY REFERENCE TO A SPECIFICATION OR DESCRIPTION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, FEDERAL SPECIFICATIONS, OR OTHER STANDARDS, CODES OR ORDERS, REFERS TO THE MOST RECENT OR LATEST SPECIFICATION OR DESIGNATION.
  - ALL CONSTRUCTION WITHIN THE TOWN OF WALDOBORO RIGHT OF WAY SHALL COMPLY WITH TOWN PUBLIC WORKS STANDARDS. ALL CONSTRUCTION WITHIN A STATE RIGHT OF WAY SHALL COMPLY WITH MAINE D.O.T. STANDARDS. ALL UTILITY CONSTRUCTION SHALL CONFORM TO RESPECTIVE UTILITY STANDARDS.
  - THE CONTRACTORS ARE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY THE TOWN PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE TOWN REQUIRED TO PERFORM ALL THE WORK (STREET OPENINGS, BUILDING PERMIT, ETC.). THE CONTRACTOR SHALL POST ALL BONDS AS REQUIRED, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
  - PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR IS TO INFORM ALL AREA UTILITY COMPANIES AND GOVERNMENTAL AGENCIES OF PLANNED CONSTRUCTION. THE SITE CONTRACTOR IS REQUIRED TO CONTACT DIG-SAFE (1-800-225-4977) AT LEAST 3 BUSINESS DAYS PRIOR TO ANY EXCAVATION TO VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY LOCATIONS.
  - THE PROJECT DRAWINGS ARE GENERALLY SCHEMATIC AND INDICATE THE POSSIBLE LOCATION OF EXISTING UNDERGROUND UTILITIES. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY MAPS, MUNICIPAL RECORD MAPS, AND FIELD SURVEY. IT IS NOT GUARANTEED TO BE CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES, WHEN THOSE SERVICES ARE TO BE LEFT IN PLACE. THE CONTRACTOR IS TO PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING THE EXCAVATING AND BACKFILLING OPERATIONS. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE FOUND, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
  - OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOISTS, ETC. WITHIN TEN FEET (10') OF ANY ELECTRIC LINE. IF THE CONTRACTOR MUST OPERATE CLOSER THAN 10', THE CONTRACTOR MUST CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS BEFORE ENDOUCHING ON THIS EQUIPMENT.
  - THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF THE BUILDING AREA. BUILDING AND DRIVEWAYS SHOWN ARE CONCEPTUAL. ALL SITE DIMENSIONS ARE REFERENCED TO PROPERTY LINES, THE FACE OF CURBS, OUTSIDE FACE OF WALLS, OR EDGE OF PAVING UNLESS OTHERWISE NOTED.
  - ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED IN WRITING BY THE OWNER, DESIGN ENGINEER, AND APPROPRIATE GOVERNMENTAL AGENCY PRIOR TO INSTALLATION.
  - THE CONTRACTOR SHALL RESTORE ALL UTILITY STRUCTURES, PIPE, UTILITIES, PAVEMENT, CURBS, SIDEWALKS, AND LANDSCAPED AREAS DISTURBED BY CONSTRUCTION TO AS GOOD AS BEFORE BEING DISTURBED AS DETERMINED BY CITY CODE ENFORCEMENT OFFICIALS. ANY DAMAGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - ALL EXCAVATION SHALL BE BACKFILLED TO EXISTING GRADE BEFORE THE END OF THE DAY OR ADEQUATELY PROTECTED FROM DANGER TO HUMANS AND ANIMALS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE OWNER WILL PROVIDE A BENCH MARK AT THE CONSTRUCTION SITE FROM WHICH TO BEGIN LAYOUT.
  - THE CONTRACTOR SHALL GUARANTEE THE FAITHFUL REMEDY OF ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND GUARANTEES PAYMENT FOR ANY RESULTING DAMAGE WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT.
  - THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
  - A PRE-CONSTRUCTION CONFERENCE WITH THE OWNER AND CONTRACTOR SHALL BE REQUIRED BEFORE ANY CONSTRUCTION OCCURS ON THE PROJECT. DURING CONSTRUCTION THERE SHALL BE WEEKLY PROGRESS MEETINGS WITH THE OWNER (ON SITE OR TELECONFERENCE) UNTIL PROJECT COMPLETION.
  - PROPER IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE OF PARAMOUNT IMPORTANCE FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS AND ARE ALSO REQUIRED TO FOLLOW THE MAINE DOT BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SEDIMENTATION CONTROL. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTIONS OF THE OWNER, THEIR REPRESENTATIVES, OR STATE/LOCAL/FEDERAL INSPECTORS AT NO ADDITIONAL COST TO THE OWNER.

**1 EXISTING OVERALL SITE PLAN**  
1" = 50'



LEGEND			
EXISTING	DESCRIPTION	EXISTING	DESCRIPTION
□	GRANITE MONUMENT - 3' OFFSET	S	SEWER LINE
○ IPF	IRON PIN FOUND/SET	⊙ DMH	SEWER MANHOLE
○ IRF	IRON ROD FOUND	⊙ DMH	DRAINAGE MANHOLE
⊙ CIRF	CAPPED IRON ROD FOUND	⊙ CB	CATCH BASIN
⊙ DHF	DRILL HOLE FOUND	SD	STORMDRAIN
□ MON	GRANITE MONUMENT FOUND	LD	UNDERDRAIN
---	STREET LINE	---	SILT FENCE
---	LOT SETBACKS	---	TEMP. STONE CHECK DAM
---	PROPERTY LINE	---	GRADING AND FLOW DIRECTION
---	ABUTTER LINE	---	HAY BALES
---	"NO CUT" BUFFER	---	EROSION CONTROL BLANKET
---	WETLANDS	---	STORMWATER BOUNDARY
---	EDGE OF ROAD/TRAVELED WAY	---	STORMWATER FLOW (T <sub>0</sub> )
⊙ TP 69	SOIL TEST PIT	---	FACE OF LEUGE OUTCROP
---	CONTOUR	---	DECIDUOUS TREE
⊙ GAS	SPOT GRADE	---	CONIFEROUS TREE
⊙ UP	GAS SHUT-OFF	---	TREE LINE
OHU	UTILITY POLE	---	SITE LIGHTING
UQU	OVERHEAD UTILITIES	---	STONE WALL
T	UNDERGROUND ELECTRICAL	---	
⊙	ELECTRICAL TRANSFORMER	---	
⊙ W	FIRE HYDRANT	---	
⊙ WG	WATER LINE	---	
⊙	WATER GATE	---	

STATE OF MAINE DOT  
CREW QUARTERS  
WALDOBORO, MAINE  
WIN 028559.00

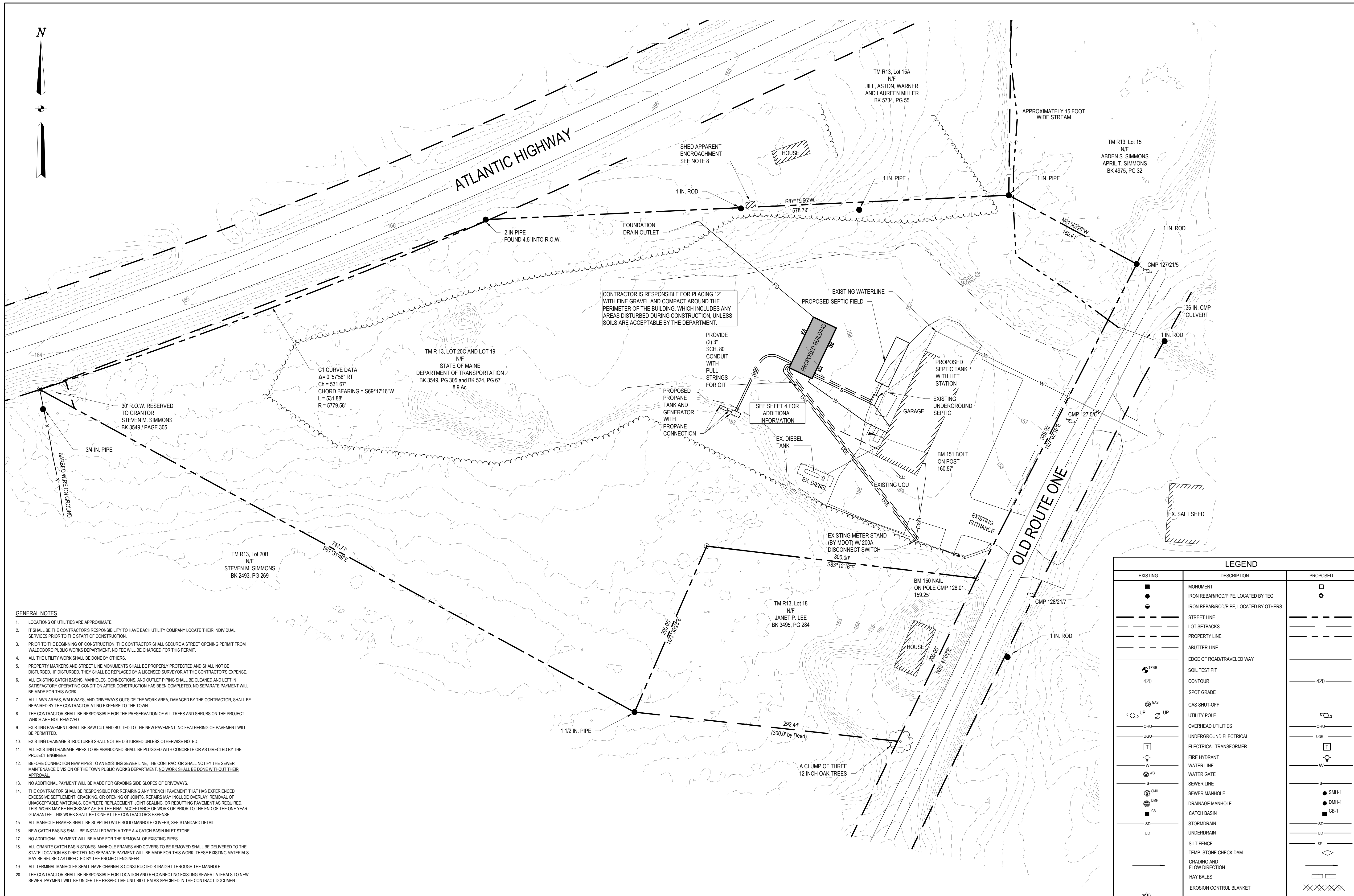
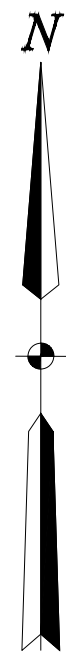
TRILLIUM ENGINEERING GROUP  
189 MAIN STREET SUITE 200  
YARMOUTH, ME 04096

ERIC DUBE  
No. 12630  
LICENSED PROFESSIONAL ENGINEER

DATE	ME-12630	PE NUMBER	OCT. 2025	DATE
BY				
ED				
FOR BID				

**MDOT CREW QUARTERS  
WALDOBORO, MAINE  
EXISTING OVERALL  
SITE PLAN**

SHEET NUMBER  
**2**



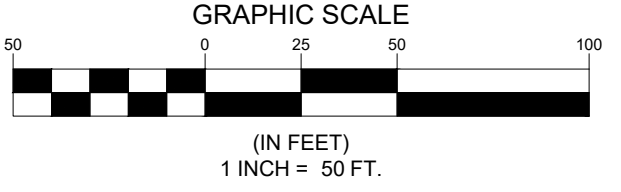
CONTRACTOR IS RESPONSIBLE FOR PLACING 12" WITH FINE GRAVEL AND COMPACT AROUND THE PERIMETER OF THE BUILDING, WHICH INCLUDES ANY AREAS DISTURBED DURING CONSTRUCTION, UNLESS SOILS ARE ACCEPTABLE BY THE DEPARTMENT.

C1 CURVE DATA  
Δ = 0°57'58" RT  
Ch = 531.67'  
CHORD BEARING = S69°17'16"W  
L = 531.88'  
R = 5779.58'

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
BK 3549, PG 305 and BK 524, PG 67  
8.9 AC.

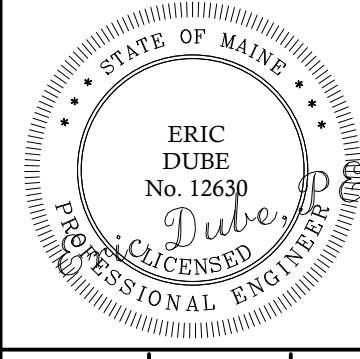
- GENERAL NOTES**
- LOCATIONS OF UTILITIES ARE APPROXIMATE
  - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE THEIR INDIVIDUAL SERVICES PRIOR TO THE START OF CONSTRUCTION.
  - PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SECURE A STREET OPENING PERMIT FROM WALDOBORO PUBLIC WORKS DEPARTMENT. NO FEE WILL BE CHARGED FOR THIS PERMIT.
  - ALL THE UTILITY WORK SHALL BE DONE BY OTHERS.
  - PROPERTY MARKERS AND STREET LINE MONUMENTS SHALL BE PROPERLY PROTECTED AND SHALL NOT BE DISTURBED. IF DISTURBED, THEY SHALL BE REPLACED BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
  - ALL EXISTING CATCH BASINS, MANHOLES, CONNECTIONS, AND OUTLET PIPING SHALL BE CLEANED AND LEFT IN SATISFACTORY OPERATING CONDITION AFTER CONSTRUCTION HAS BEEN COMPLETED. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
  - ALL LAWN AREAS, WALKWAYS, AND DRIVEWAYS OUTSIDE THE WORK AREA, DAMAGED BY THE CONTRACTOR, SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE TOWN.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL TREES AND SHRUBS ON THE PROJECT WHICH ARE NOT REMOVED.
  - EXISTING PAVEMENT SHALL BE SAW CUT AND BUTTED TO THE NEW PAVEMENT. NO FEATHERING OF PAVEMENT WILL BE PERMITTED.
  - EXISTING DRAINAGE STRUCTURES SHALL NOT BE DISTURBED UNLESS OTHERWISE NOTED.
  - ALL EXISTING DRAINAGE PIPES TO BE ABANDONED SHALL BE PLUGGED WITH CONCRETE OR AS DIRECTED BY THE PROJECT ENGINEER.
  - BEFORE CONNECTION NEW PIPES TO AN EXISTING SEWER LINE, THE CONTRACTOR SHALL NOTIFY THE SEWER MAINTENANCE DIVISION OF THE TOWN PUBLIC WORKS DEPARTMENT. NO WORK SHALL BE DONE WITHOUT THEIR APPROVAL.
  - NO ADDITIONAL PAYMENT WILL BE MADE FOR GRADING SIDE SLOPES OF DRIVEWAYS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY TRENCH PAVEMENT THAT HAS EXPERIENCED EXCESSIVE SETTLEMENT, CRACKING, OR OPENING OF JOINTS. REPAIRS MAY INCLUDE OVERLAY, REMOVAL OF UNACCEPTABLE MATERIALS, COMPLETE REPLACEMENT, JOINT SEALING, OR REBUTTING PAVEMENT AS REQUIRED. THIS WORK MAY BE NECESSARY AFTER THE FINAL ACCEPTANCE OF WORK OR PRIOR TO THE END OF THE ONE YEAR GUARANTEE. THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
  - ALL MANHOLE FRAMES SHALL BE SUPPLIED WITH SOLID MANHOLE COVERS. SEE STANDARD DETAIL.
  - NEW CATCH BASINS SHALL BE INSTALLED WITH A TYPE 4-CATCH BASIN INLET STONE.
  - NO ADDITIONAL PAYMENT WILL BE MADE FOR THE REMOVAL OF EXISTING PIPES.
  - ALL GRANITE CATCH BASIN STONES, MANHOLE FRAMES AND COVERS TO BE REMOVED SHALL BE DELIVERED TO THE STATE LOCATION AS DIRECTED. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. THESE EXISTING MATERIALS MAY BE REUSED AS DIRECTED BY THE PROJECT ENGINEER.
  - ALL TERMINAL MANHOLES SHALL HAVE CHANNELS CONSTRUCTED STRAIGHT THROUGH THE MANHOLE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND RECONNECTING EXISTING SEWER LATERALS TO NEW SEWER. PAYMENT WILL BE UNDER THE RESPECTIVE UNIT BID ITEM AS SPECIFIED IN THE CONTRACT DOCUMENT.

LEGEND		
EXISTING	DESCRIPTION	PROPOSED
■	MONUMENT	□
●	IRON REBAR/ROD/PIPE, LOCATED BY TEG	○
●	IRON REBAR/ROD/PIPE, LOCATED BY OTHERS	○
---	STREET LINE	---
---	LOT SETBACKS	---
---	PROPERTY LINE	---
---	ABUTTER LINE	---
---	EDGE OF ROAD/TRAVELED WAY	---
●	SOIL TEST PIT	---
---	CONTOUR	---
---	SPOT GRADE	---
⊗	GAS SHUT-OFF	---
⊕	UTILITY POLE	---
OHU	OVERHEAD UTILITIES	---
UGU	UNDERGROUND ELECTRICAL	---
⊞	ELECTRICAL TRANSFORMER	---
⊕	FIRE HYDRANT	---
W	WATER LINE	---
WG	WATER GATE	---
S	SEWER LINE	---
SMH	SEWER MANHOLE	SMH-1
DMH	DRAINAGE MANHOLE	DMH-1
CB	CATCH BASIN	CB-1
SD	STORMDRAIN	---
UD	UNDERDRAIN	---
SF	SILT FENCE	---
→	TEMP. STONE CHECK DAM	---
→	GRADING AND FLOW DIRECTION	---
⊞	HAY BALES	---
⊞	EROSION CONTROL BLANKET	---
⊞	DECIDUOUS TREE	---
⊞	CONIFEROUS TREE	---
---	TREE LINE	---
---	SITE LIGHTING	---



# 1 PROPOSED OVERALL SITE PLAN

STATE OF MAINE DOT  
CREW QUARTERS  
WALDOBORO, MAINE  
WIN 028559.00



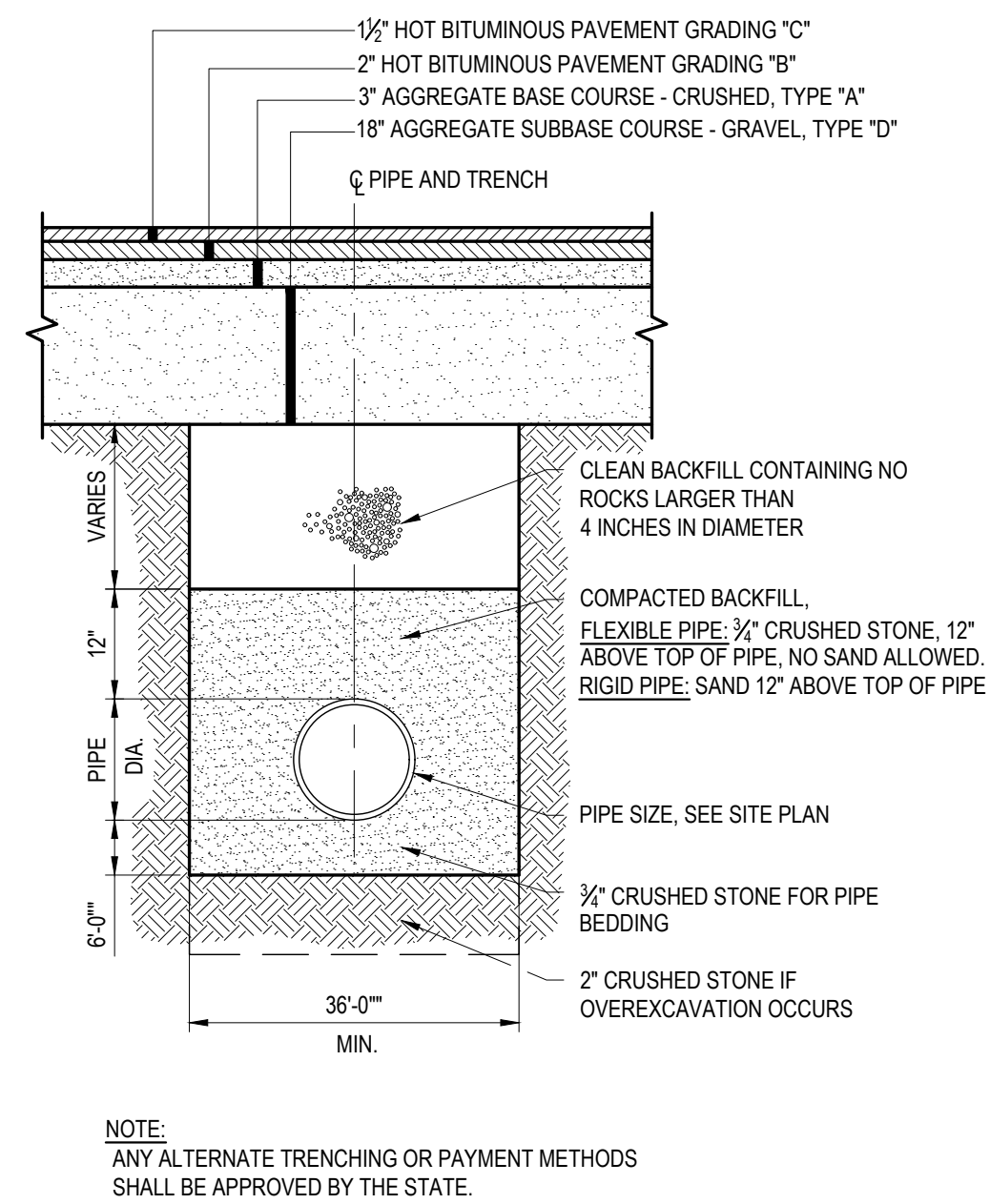
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BY	ED
FOR BID	
ME-12630	PE NUMBER
	OCT. 2025
	DATE

## MDOT CREW QUARTERS WALDOBORO, MAINE PROPOSED OVERALL SITE PLAN

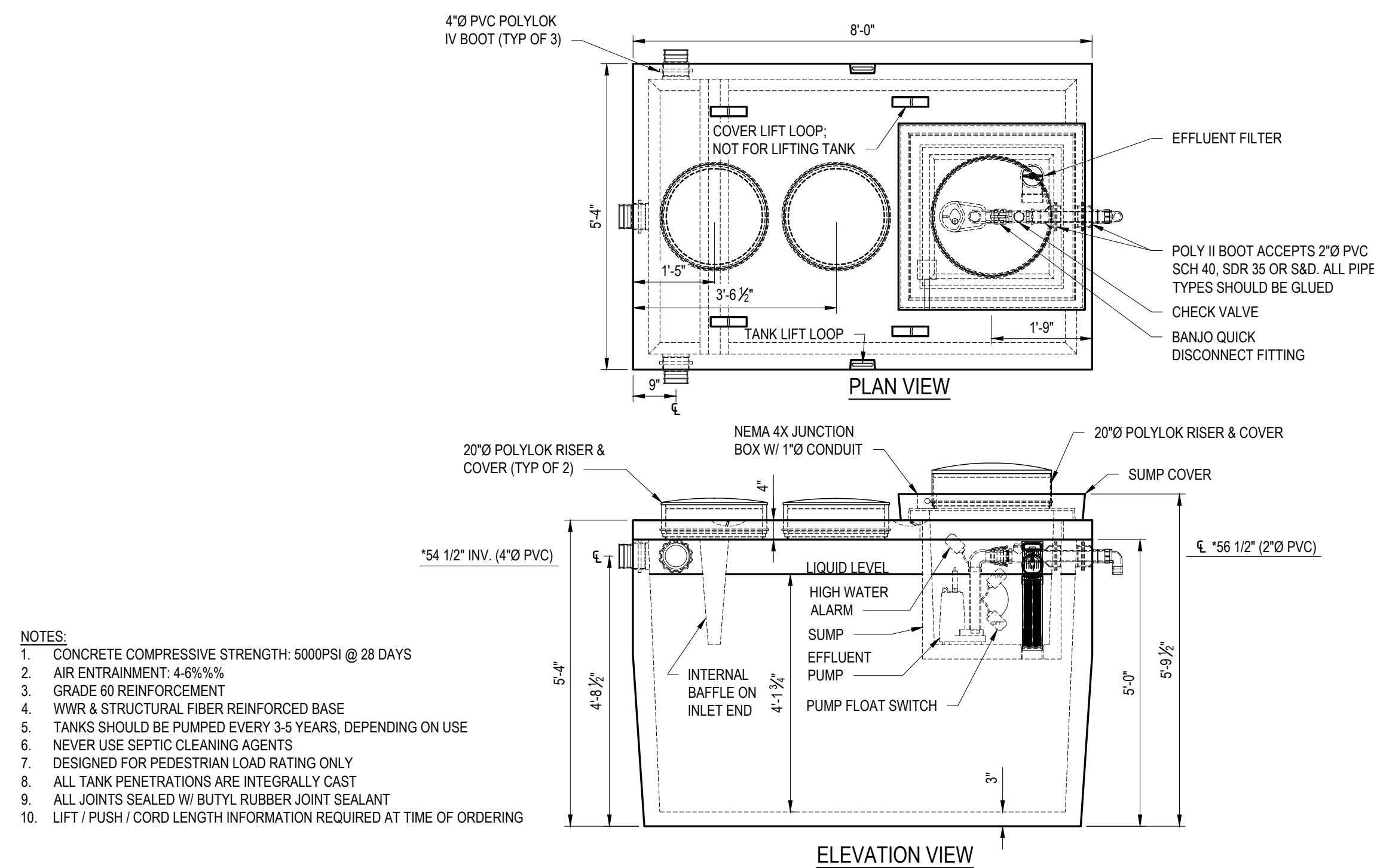
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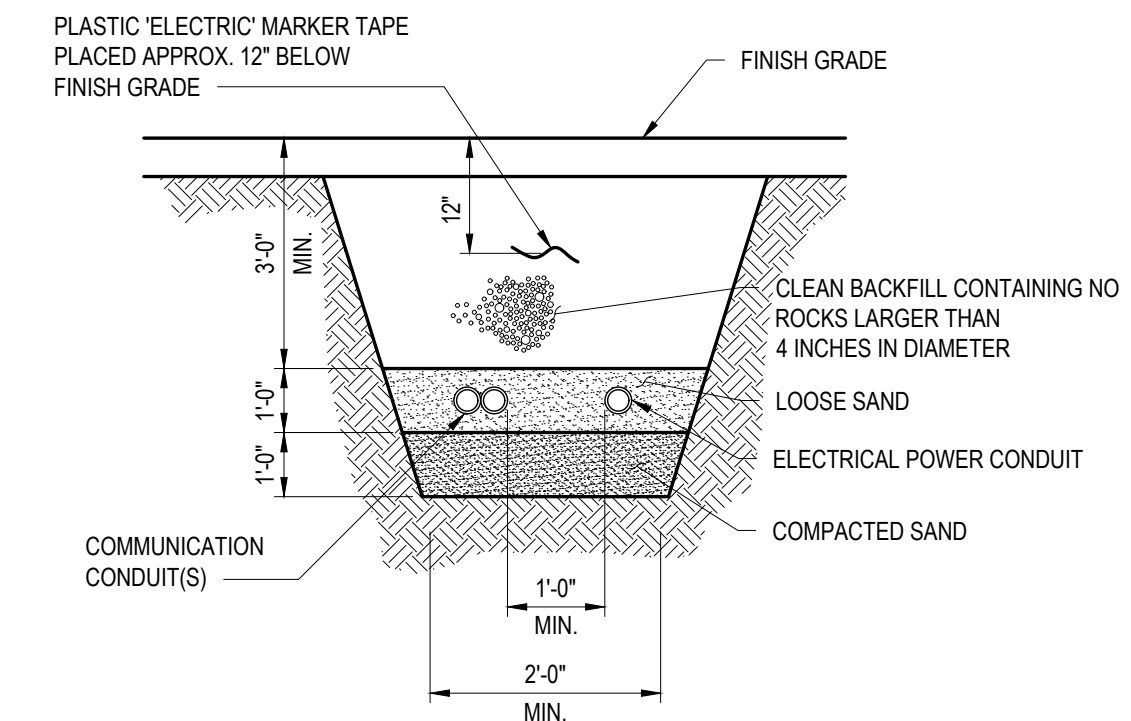




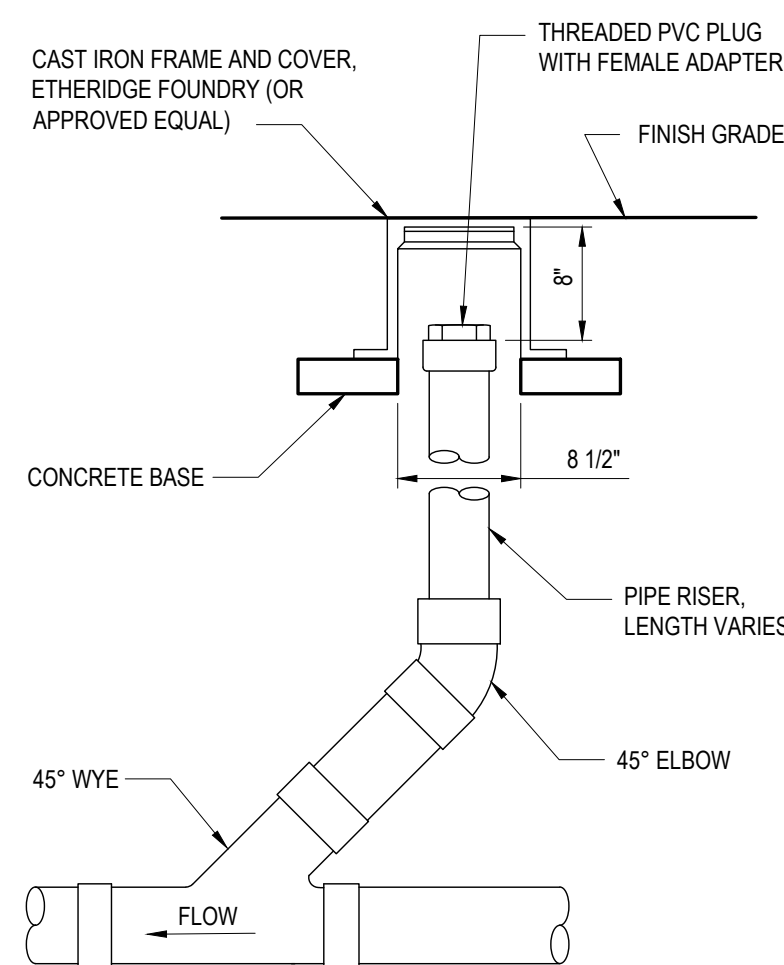
1 TYPICAL UNDERGROUND PIPE TRENCH SECTION  
NTS



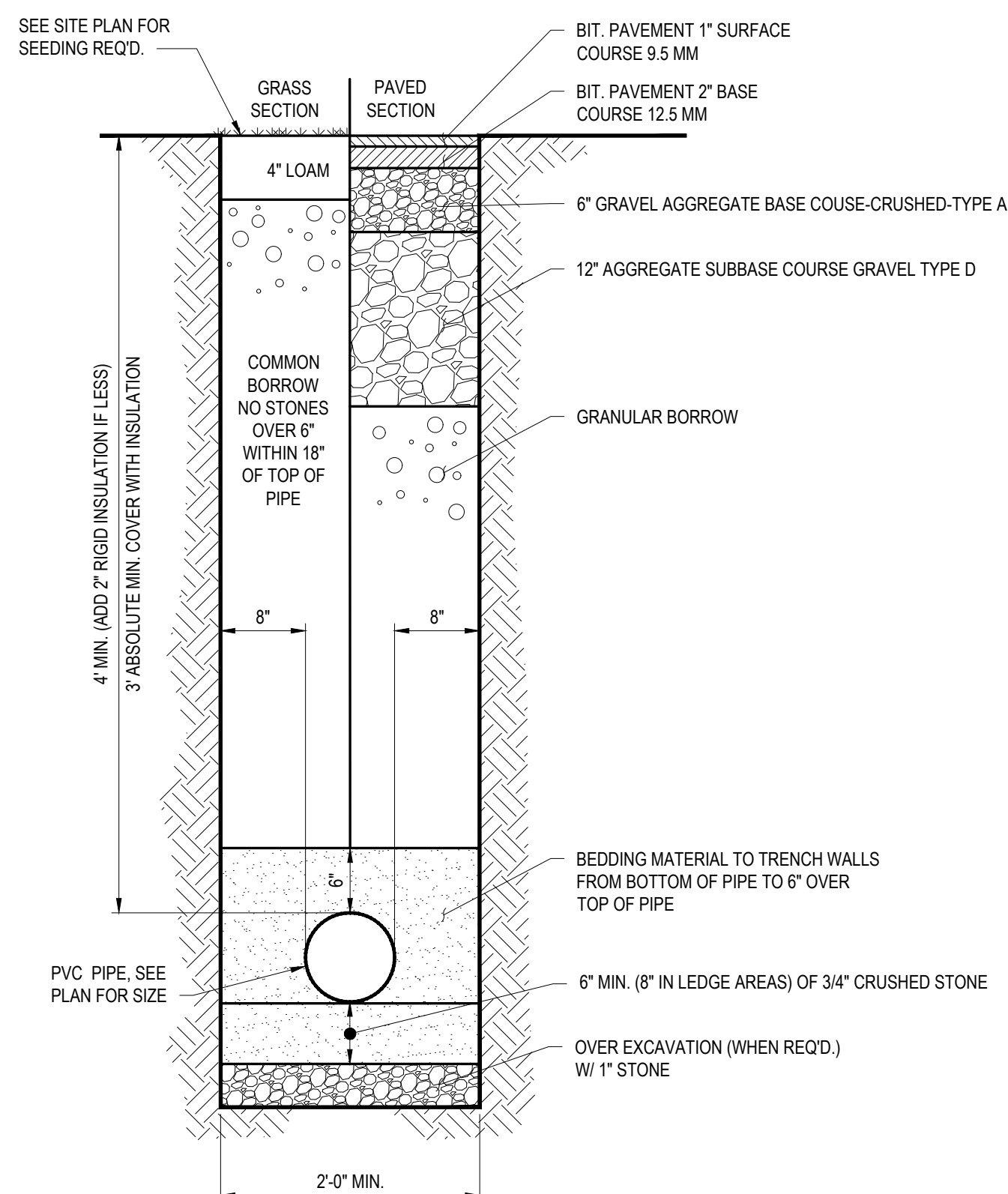
2 TYPICAL SEPTIC TANK WITH LIFT STATION DETAIL  
NTS



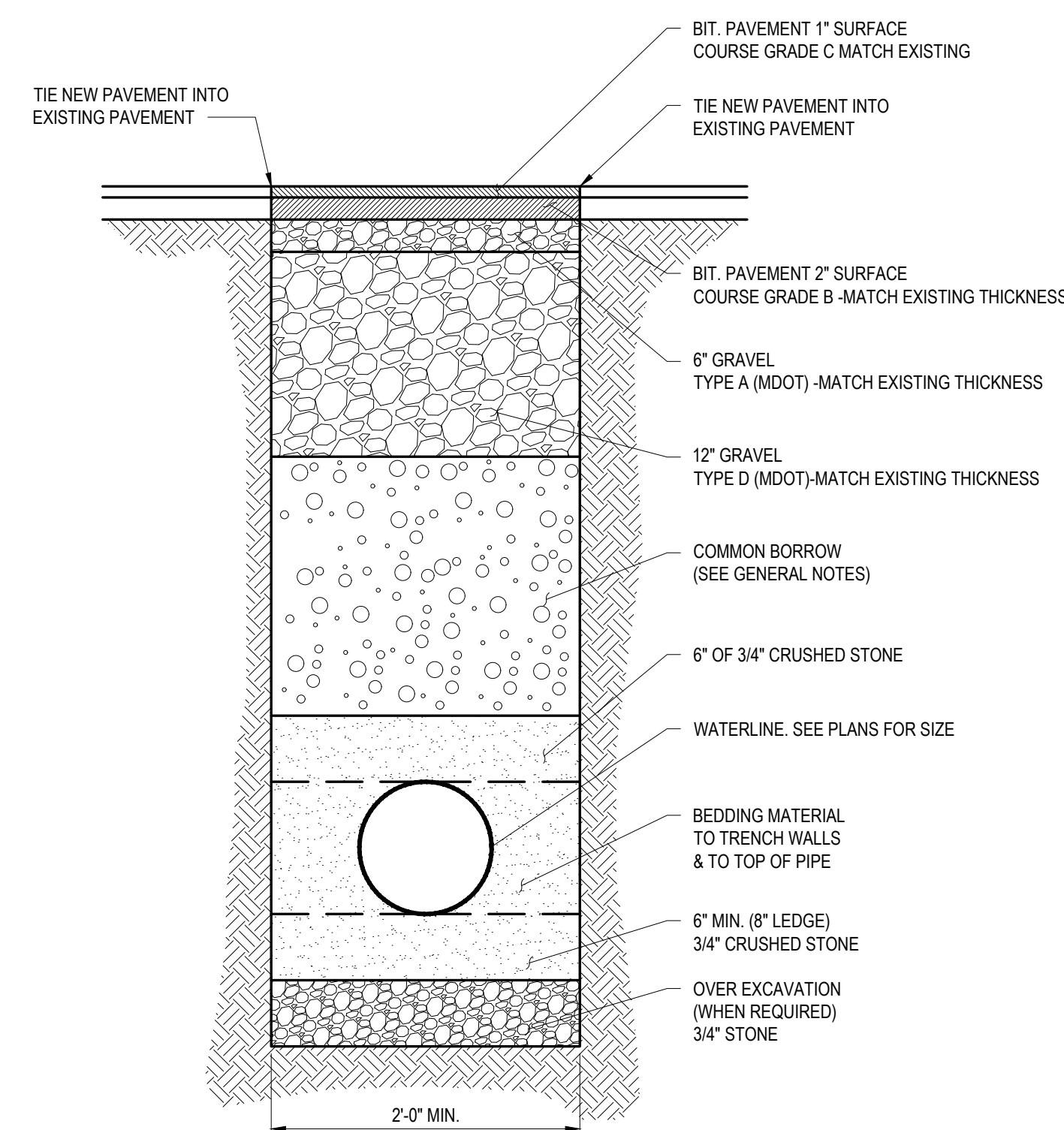
3 TYPICAL UNDERGROUND WIRE TRENCH SECTION  
NTS



4 CLEANOUT DETAIL  
NTS

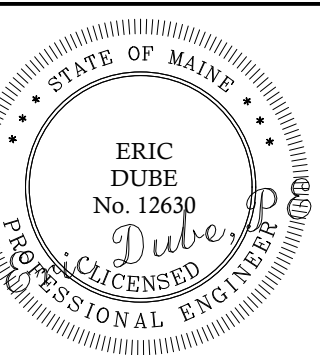


5 TYPICAL GRAVITY SANITARY TRENCH SECTION  
NTS



6 WATER MAIN TRENCH SECTION  
NTS

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WALDOBORO, MAINE  
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MDOT CREW QUARTERS  
WALDOBORO, MAINE  
SITE DETAILS

SHEET NUMBER  
5

# EROSION AND SEDIMENTATION NOTES

1. THIS PLAN HAS BEEN DEVELOPED TO PROVIDE A STRATEGY FOR DEALING WITH SOIL EROSION AND SEDIMENTATION DURING AND AFTER PROJECT CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARD AND SPECIFICATIONS FOR EROSION PREVENTION AS CONTAINED IN THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: "MAINE EROSION AND SEDIMENT CONTROL BMPs" PUBLISHED BY THE MAINE DEP, LATEST EDITION.

## GENERAL EROSION AND SEDIMENTATION CONTROL PRACTICES

- EROSION/SEDIMENT CONTROL DEVICES
    - THE FOLLOWING EROSION SEDIMENTATION CONTROL DEVICES ARE PROPOSED FOR CONSTRUCTION ON THIS PROJECT. INSTALL THESE DEVICES AS INDICATED ON THE PLANS.
  - SILT FENCE: SILT FENCE WILL BE INSTALLED ALONG THE DOWN GRADING EDGES OF DISTURBED AREAS TO TRAP RUNOFF BORNE SEDIMENTS UNTIL THE SITE IS STABILIZED. IN AREAS WHERE STORMWATER DISCHARGES THE SILT FENCE WILL BE REINFORCED WITH HAY BALES TO HELP MAINTAIN THE INTEGRITY OF THE SILT FENCE AND TO PROVIDE ADDITIONAL TREATMENT.
  - HAY BALES TO BE PLACED IN LOW FLOW DRAINAGE SWALES AND PATHS TO TRAP SEDIMENTS AND REDUCE RUNOFF VELOCITIES. DO NOT PLACE HAY BALES IN FLOWING WATER OR STREAMS.
  - RIPRAP: PROVIDE RIPRAP IN AREAS WHERE CULVERTS DISCHARGE OR AS SHOWN ON THE PLANS.
  - LOAM, SEED, & MULCH: ALL DISTURBED AREAS, WHICH ARE NOT OTHERWISE TREATED, SHALL RECEIVE PERMANENT SEEDING AND MULCH TO STABILIZE THE DISTURBED AREAS. THE DISTURBED AREAS WILL BE REVEGETATED WITHIN 5 DAYS OF FINAL GRADING. SEEDING REQUIREMENTS ARE PROVIDED AT THE END OF THIS SPECIFICATION.
  - STRAW AND HAY MULCH: USED TO COVER DENUDED AREAS UNTIL PERMANENT SEED OR EROSION CONTROL MEASURES ARE IN PLACE. MULCH BY ITSELF CAN BE USED ON SLOPES LESS THAN 15% IN SUMMER AND 8% IN WINTER. ALL OTHER SLOPES MUST BE COVERED WITH JUTE MESH OVER MULCH, OR CURLEX II OR EXCELSIOR MAY BE USED IN PLACE OF JUTE MESH AND MULCH OVER LOAM AND SEED.
  - 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 GREATER THAN 8%. VEGETATED DRAINAGE SWALES SHALL BE LINED WITH EXCELSIOR OR CURLEX.
- TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES
    - PROVIDE THE FOLLOWING TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION OF THE DEVELOPMENT:
  - SILTATION FENCE ALONG THE DOWNGRADIENT SIDE OF THE PARKING AREAS AND OF ALL FILL SECTIONS. THE SILTATION FENCE WILL REMAIN IN PLACE UNTIL THE SITE IS 85% REVEGETATED.
  - HAY BALES PLACED AT KEY LOCATIONS TO SUPPLEMENT THE SILT FENCE.
  - PROTECT TEMPORARY STOCKPILES OF STUMPS, GRUBBINGS, OR COMMON EXCAVATION AS FOLLOWS:
    - SOIL STOCKPILE SIDE SLOPES SHALL NOT EXCEED 2:1.
    - AVOID PLACING TEMPORARY STOCKPILES IN AREAS WITH SLOPES OVER 10 PERCENT, OR NEAR DRAINAGE SWALES. SEE ITEM 3 IN CONSTRUCTION PHASE NOTES BELOW.
    - STABILIZE STOCKPILES WITHIN 15 DAYS BY TEMPORARILY SEEDING WITH A HYDROSEED METHOD CONTAINING AN EMULSIFIED MULCH TACKIFIER OR BY COVERING THE STOCKPILE WITH MULCH.
    - SURROUND STOCKPILE SOIL WITH SILTATION FENCE AT BASE OF PILE.
  - ALL DENUDED AREAS WHICH HAVE BEEN ROUGH GRADED AND ARE NOT LOCATED WITHIN THE BUILDING PAD, OR PARKING AND DRIVEWAY SUBBASE AREA SHALL RECEIVE MULCH WITHIN 30 DAYS OF INITIAL DISTURBANCE OF SOIL OR WITHIN 15 DAYS AFTER COMPLETING THE ROUGH GRADING OPERATIONS. IN THE EVENT THE CONTRACTOR COMPLETES FINAL GRADING AND INSTALLATION OF LOAM AND SOD WITHIN THE TIME PERIODS PRESENTED ABOVE, INSTALLATION OF MULCH AND NETTING, WHERE APPLICABLE, IS NOT REQUIRED.
  - IF WORK IS CONDUCTED BETWEEN OCTOBER 15 AND APRIL 15, ALL DENUDED AREAS ARE TO BE COVERED WITH HAY MULCH, APPLIED AT TWICE THE NORMAL APPLICATION RATE, AND ANCHORED WITH FABRIC NETTING. THE PERIOD BETWEEN FINAL GRADING AND MULCHING SHALL BE REDUCED TO A 15 DAY MAXIMUM.
  - TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE HAS BEEN STABILIZED OR IN AREAS WHERE PERMANENT EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- PERMANENT EROSION CONTROL MEASURES
    - THE FOLLOWING PERMANENT CONTROL MEASURES ARE REQUIRED BY THIS EROSION/SEDIMENTATION CONTROL PLAN:
  - ALL AREAS DISTURBED DURING CONSTRUCTION, BUT NOT SUBJECT TO OTHER RESTORATION (PAVING, RIPRAP, ETC.), WILL BE LOAMED, LIMED, FERTILIZED AND SEED. NATIVE TOPSOIL SHALL BE STOCKPILED AND REUSED FOR FINAL RESTORATION WHEN IT IS OF SUFFICIENT QUALITY.
  - SLOPES GREATER THAN 2:1 WILL RECEIVE RIPRAP.

**CONSTRUCTION PHASE**  
THE FOLLOWING GENERAL PRACTICES WILL BE USED TO PREVENT EROSION DURING CONSTRUCTION OF THIS PROJECT.

- ONLY THOSE AREAS UNDER ACTIVE CONSTRUCTION WILL BE CLEARED AND LEFT IN AN UNTREATED OR UNVEGETATED CONDITION. IF FINAL GRADING, LOAMING AND SEEDING WILL NOT OCCUR WITHIN 15 DAYS, SEE ITEM NO. 4.
- PRIOR TO THE START OF CONSTRUCTION IN A SPECIFIC AREA, SILT FENCING AND/OR HAY BALES WILL BE INSTALLED AT THE TOE OF SLOPE AND IN AREAS AS LOCATED ON THE PLANS TO PROTECT AGAINST ANY CONSTRUCTION RELATED EROSION. IMMEDIATELY FOLLOWING CONSTRUCTION OF CULVERTS AND SWALES, RIP RAP APRONS SHALL BE INSTALLED, AS SHOWN ON THE PLANS.
- TOPSOIL WILL BE STOCKPILED WHEN NECESSARY IN AREAS WHICH HAVE MINIMUM POTENTIAL FOR EROSION AND WILL BE KEPT AS FAR AS POSSIBLE FROM THE EXISTING DRAINAGE COURSE. NO STOCKPILE SHALL BE CLOSER THAN 100' OF A RESOURCE INCLUDING, BUT NOT LIMITED TO, WETLANDS, STREAMS, AND OPEN WATER BODIES. ALL STOCKPILES SHALL HAVE A SILTATION FENCE BELOW THEM REGARDLESS OF TIME OF PRESENCE. ALL STOCKPILES EXPECTED TO REMAIN LONGER THAN 15 DAYS SHALL BE:
  - TREATED WITH ANCHORED MULCH (WITHIN 5 DAYS OF THE LAST DEPOSIT OF STOCKPILED SOIL).
  - SEEDING WITH CONSERVATION MIX AND MULCHED IMMEDIATELY.
  - INSTALL SILT FENCE AROUND STOCKPILE AT BASE OF PILE.
 STOCKPILES TO HAVE SILT FENCE INSTALLED AT TIME OF ESTABLISHMENT AT BASE OF PILE.
- ALL DISTURBED AREAS EXPECTED TO REMAIN LONGER THAN 30 DAYS SHALL BE EITHER:
  - TREATED WITH ANCHORED MULCH IMMEDIATELY, OR
  - SEEDING WITH CONSERVATION MIX OF ANNUAL RYE GRASS (0.9 LBS/1000 SQ. FT) AND MULCHED IMMEDIATELY.
- ALL GRADING WILL BE HELD TO A MAXIMUM 2:1 SLOPE WHERE PRACTICAL. ALL SLOPES WILL BE STABILIZED WITH PERMANENT SEEDING, OR WITH STONE, WITHIN 5 DAYS AFTER FINAL GRADING IS COMPLETE. (SEE POST-CONSTRUCTION REVEGETATION FOR SEEDING SPECIFICATION.)
- ALL CULVERTS WILL BE PROTECTED WITH STONE RIPRAP (D50 = 6" UNLESS OTHERWISE SPECIFIED) AT INLETS AND OUTLETS.

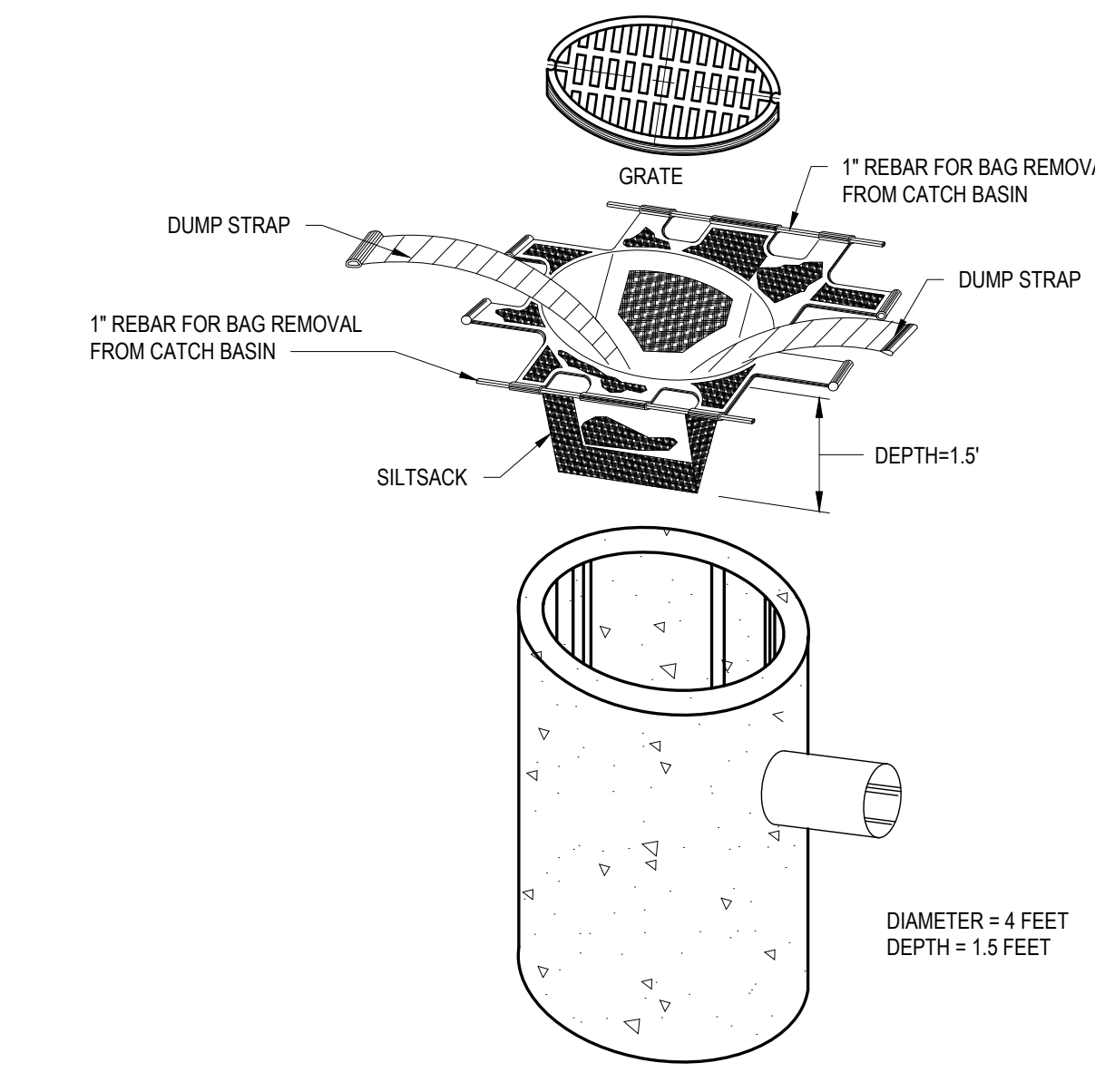
**POST-CONSTRUCTION REVEGETATION**  
THE FOLLOWING GENERAL PRACTICES WILL BE USED TO PREVENT EROSION AS SOON AS AN AREA IS READY TO UNDERGO FINAL GRADING.

- A MINIMUM OF 4" OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND GRADED TO A UNIFORM DEPTH AND NATURAL APPEARANCE. OR STONE WILL BE PLACED ON SLOPES TO STABILIZE SURFACES.
- IF FINAL GRADING IS REACHED DURING THE NORMAL GROWING SEASON (4/15 TO 9/15), PERMANENT SEEDING WILL BE DONE AS SPECIFIED BELOW. PRIOR TO SEEDING, LIMESTONE SHALL BE APPLIED AT A RATE OF 138 LBS/1000 SQ. FT. AND 10:20:20 FERTILIZER AT A RATE OF 18.4 LBS/1000 SQ.FT WILL BE APPLIED. BROADCAST SEEDING AT THE FOLLOWING RATES:
 

<b>LAWNS</b>	<b>SWALES</b>
KENTUCKY BLUEGRASS 0.46 LBS/1000 SF.	RED TOP 0.05 LBS/1000 SF.
CREeping RED FESCUE 0.46 LBS/1000 SF.	TALL FESCUE 0.46 LBS/1000 SF.
PERENNIAL RYE GRASS 0.11 LB/1000 SF.	
- AN AREA SHALL BE MULCHED IMMEDIATELY AFTER IS HAS BEEN SEEDED. MULCHING SHALL CONSIST OF HAY MULCH, HYDRO-MULCH, JUTE NET OVER MULCH, PRE-MANUFACTURED EROSION MATS OR ANY SUITABLE SUBSTITUTE DEEMED ACCEPTABLE BY THE DESIGNER.
  - HAY MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. HAY MULCH SHALL BE SECURED BY EITHER: (NOTE: SOIL SHALL NOT BE VISIBLE)
    - BEING DRIVEN OVER BY TRACKED CONSTRUCTION EQUIPMENT ON GRADES OF 5% AND LESS.
    - BLANKETED BY TACKED PHOTODEGRADABLE/BIODEGRADABLE NETTING, OR WITH SPRAY, ON GRADES GREATER THAN 5%.
    - SEE NOTE 6, GENERAL NOTES, AND NOTE 8, WINTER CONSTRUCTION.
  - HYDRO-MULCH SHALL CONSIST OF A MIXTURE OF EITHER ASPHALT, WOOD FIBER OR PAPER FIBER AND WATER SPRAYED OVER A SEEDED AREA. HYDRO-MULCH SHALL NOT BE USED BETWEEN 9/15 AND 4/15.
- CONSTRUCTION SHALL BE PLANNED TO ELIMINATE THE NEED FOR SEEDING BETWEEN SEPTEMBER 15 AND APRIL 15. SHOULD SEEDING BE NECESSARY BETWEEN SEPTEMBER 15 AND APRIL 15 THE FOLLOWING PROCEDURE SHALL BE FOLLOWED. ALSO REFER TO NOTE 9 OF WINTER CONSTRUCTION.
  - ONLY UNFROZEN LOAM SHALL BE USED.
  - LOAMING, SEEDING AND MULCHING WILL NOT BE DONE OVER SNOW OR ICE COVER. IF SNOW EXISTS, IT MUST BE REMOVED PRIOR TO PLACEMENT OF SEED.
  - WHERE PERMANENT SEEDING IS NECESSARY, ANNUAL WINTER RYE (1.2 LBS/1000 SQ.FT) SHALL BE ADDED TO THE PREVIOUSLY NOTED AREAS.
  - WHERE TEMPORARY SEEDING IS REQUIRED, ANNUAL WINTER RYE (2.6 LBS/1000 SQ. FT.) SHALL BE SOWN INSTEAD OF THE PREVIOUSLY NOTED SEEDING RATE.
  - FERTILIZING, SEEDING AND MULCHING SHALL BE APPLIED TO LOAM THE DAY THE LOAM IS SPREAD BY MACHINERY.
  - ALTERNATIVE HAY MULCH SHALL BE SECURED WITH PHOTODEGRADABLE/BIODEGRADABLE NETTING. TRACKING BY MACHINERY ALONE WILL NOT SUFFICE.
- FOLLOWING FINAL SEEDING, THE SITE WILL BE INSPECTED EVERY 30 DAYS UNTIL 85% COVER HAS BEEN ESTABLISHED. RESEEDING WILL BE CARRIED OUT BY THE CONTRACTOR WITHIN 10 DAYS OF NOTIFICATION BY THE ENGINEER THAT THE EXISTING CATCH IS INADEQUATE.

**MONITORING SCHEDULE**  
THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MONITORING, MAINTAINING, REPAIRING, REPLACING AND REMOVING ALL OF THE EROSION AND SEDIMENTATION CONTROLS OR APPOINTING A QUALIFIED SUBCONTRACTOR TO DO SO. MAINTENANCE MEASURES WILL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, A VISUAL INSPECTION WILL BE MADE OF ALL EROSION AND SEDIMENTATION CONTROLS AS FOLLOWS:

- HAY BALE BARRIERS, SILT FENCE, AND STONE CHECK DAMS SHALL BE INSPECTED AND REPAIRED ONCE A WEEK OR IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL. SEDIMENT TRAPPED BEHIND THESE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REDISTRIBUTED TO AREAS UNDERGOING FINAL GRADING. SHOULD THE HAY BALE BARRIERS PROVE TO BE INEFFECTIVE, THE CONTRACTOR SHALL INSTALL SILT FENCE BEHIND THE HAY BALES.
- VISUALLY INSPECT RIPRAP ONCE A WEEK OR AFTER EACH SIGNIFICANT RAINFALL AND REPAIR AS NEEDED. REMOVE SEDIMENT TRAPPED BEHIND THESE DEVICES ONCE IT ATTAINS A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE DAM OR RISER. DISTRIBUTE REMOVED SEDIMENT OFF-SITE OR TO AN AREA UNDERGOING FINAL GRADING.
- REVEGETATION OF DISTURBED AREAS WITHIN 25' OF DRAINAGE COURSE/STREAM WILL BE SEEDING WITH THE "MEADOW AREA MIX" AND INSPECTED ON A WEEKLY BASIS OR AFTER EACH SIGNIFICANT RAINFALL AND RESEEDING AS NEEDED. EXPOSED AREAS WILL BE RESEEDING AS NEEDED UNTIL THE AREA HAS OBTAINED 100% GROWTH RATE. PROVIDE PERMANENT RIPRAP FOR SLOPES IN EXCESS OF 3:1 AND WITHIN 25' OF DRAINAGE COURSE.



- 'SILTSACK' INSTALLATION INSTRUCTION**
- REMOVE THE CATCH BASIN GRATE AND PLACE THE SACK INTO THE OPENING. HOLD OUT APPROXIMATELY SIX (6) INCHES OF THE SACK BEYOND THE BASIN FRAME TO ALLOW ACCESS TO THE 'SILTSACK' LIFTING STRAPS. REPLACING THE GRATE BACK INSIDE OF ITS FRAME WILL HOLD THE SACK IN PLACE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING THIS SEDIMENT CONTROL DEVICE. THE SACK IS CONSIDERED FULL AND READY TO EMPTY WHEN THE 'RESTRAINT CORD' IS NO LONGER VISIBLE.
  - THE 'SILTSACK' IS REMOVED BY PLACING TWO (2) PIECES IF 1 INCH DIAMETER REBAR THROUGH THE LIFTING LOOPS LOCATED ON EACH SIDE OF THE SACK AND LIFTING WITH AN APPROPRIATE PIECE OF CONSTRUCTION EQUIPMENT. THE LIFTING STRAPS ARE CONNECTED TO THE BOTTOM OF THE SACK AND THE LIFTING ACTION WILL CAUSE THE SACK TO TURN INSIDE OUT, AND EMPTYING THE CONTENTS. THE SACK SHOULD THEN BE CLEANED, RINSED AND RETURNED TO ITS ORIGINAL SHAPE AND PLACED BACK IN THE BASIN.
  - THE 'SILTSACK' IS REUSABLE, THEREFORE, ONCE THE CONSTRUCTION CYCLE IS COMPLETE, REMOVE THE SACK FROM THE BASIN, CLEAN AND STORE OUT OF DIRECT SUNLIGHT UNTIL ITS NEXT USE.
  - THE 'SILTSACK' SEDIMENT CONTROL DEVICE IS MANUFACTURED BY: ACF ENVIRONMENTAL

# EROSION CONTROL DURING WINTER CONSTRUCTION

- WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
- WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHALL BE LIMITED TO THOSE AREAS TO BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. AT THE END OF EACH WORK WEEK NO AREAS MAY BE LEFT UNSTABILIZED OVER THE WEEKEND.
- 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.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 150 LB. PER 1000 S.F. (WITH OR WITHOUT SEEDING) OR DORMANT SEED, MULCHED AND ANCHORED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH. NOTE: AN AREA IS ALSO CONSIDERED STABLE IF SODDED, COVERED WITH GRAVEL (PARKING LOTS) OR STRUCTURAL SAND.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, 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 1 AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNEXPOSED 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, SILT FENCE OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS SHOWN ON THE DESIGN DRAWINGS. NOTE: DORMANT SEEDING SHOULD NOT BE ATTEMPTED UNLESS SOIL TEMPERATURE REMAINS BELOW 50 DEGREES AND DAY TIME TEMPERATURES REMAIN IN THE 30'S.
- 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 GREATER THAN 8%. VEGETATED DRAINAGE SWALES SHALL BE LINED WITH EXCELSIOR OR CURLEX.
- MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1 THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- BETWEEN THE DATES OF OCTOBER 15 TO NOVEMBER 1, WINTER RYE IS RECOMMENDED FOR STABILIZATION. AFTER NOVEMBER 1, WINTER RYE IS NOT EFFECTIVE. AROUND NOVEMBER 15 OR LATER, ONCE TEMPERATURES OF THE AIR AND SOIL PERMIT, DORMANT SEEDING IS EFFECTIVE.
- IN THE EVENT OF SNOWFALL (FRESH OR CUMULATIVE) GREATER THAN 1 INCH DURING WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM THE AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

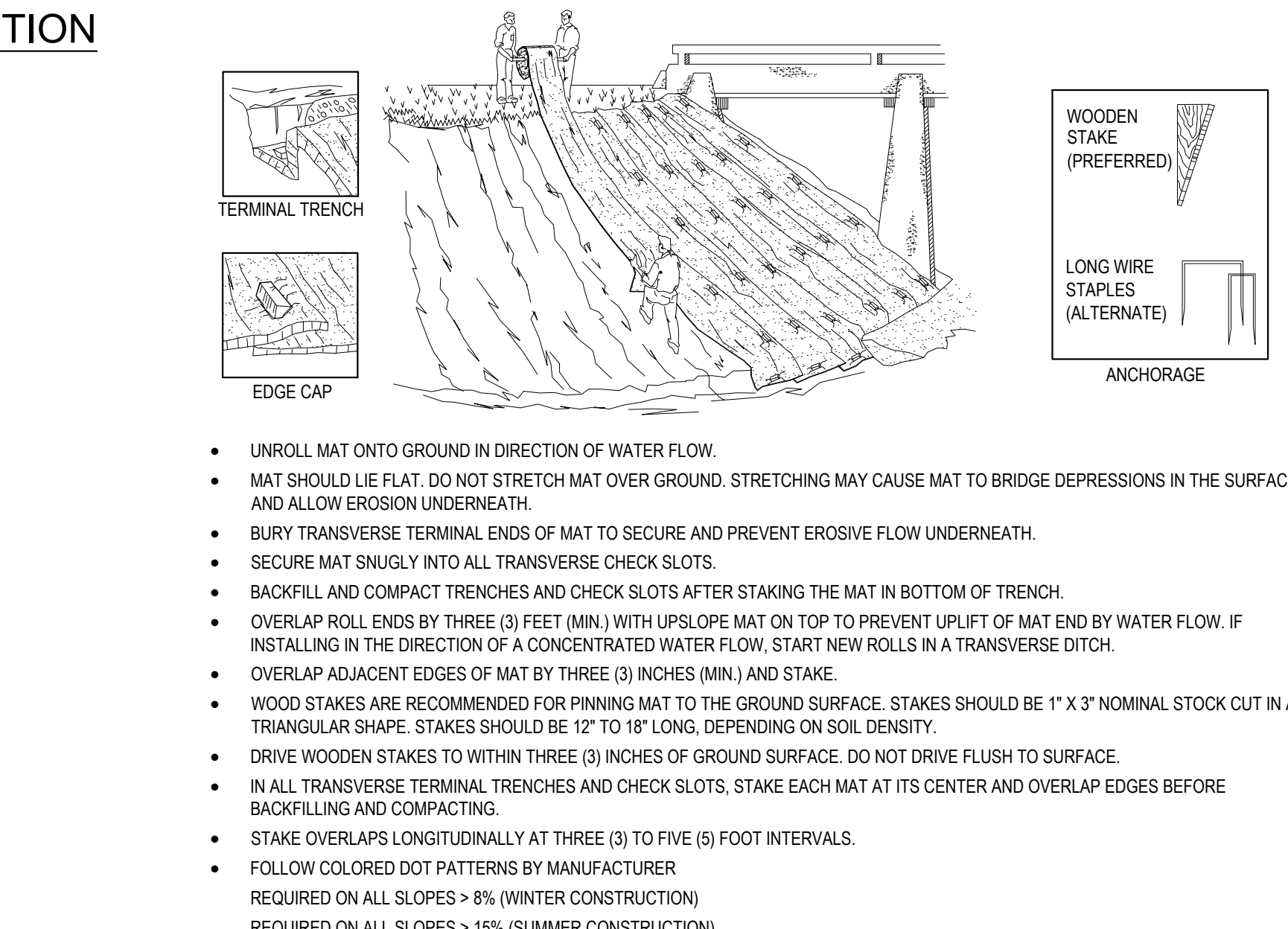
**SITE INSPECTION AND MAINTENANCE**  
1. WEEKLY INSPECTIONS, AS WELL AS ROUTINE INSPECTIONS FOLLOWING RAIN FALLS, SHALL BE CONDUCTED BY THE GENERAL CONTRACTOR OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES UNTIL FINAL ACCEPTANCE OF THE PROJECT (85% GRASS CATCH). NECESSARY REPAIRS SHALL BE MADE TO CORRECT UNDERMINING OR DETERIORATION. FINAL ACCEPTANCE SHALL INCLUDE A SITE INSPECTION TO VERIFY THE STABILITY OF ALL DISTURBED AREAS AND SLOPES. UNTIL FINAL INSPECTION, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL IMMEDIATELY BE CLEANED, AND REPAIRED BY THE GENERAL CONTRACTOR AS REQUIRED. DISPOSAL OF ALL TEMPORARY EROSION AND CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

IT IS RECOMMENDED THAT THE OWNER HIRE THE SERVICES OF THE DESIGN ENGINEER TO PROVIDE COMPLIANCE INSPECTIONS (DURING ACTIVE CONSTRUCTION) RELATIVE TO IMPLEMENTATION OF THE STORMWATER AND EROSION CONTROL PLANS. SUCH INSPECTIONS SHOULD BE LIMITED TO ONCE A WEEK OR AS NECESSARY AND BE REPORTABLE TO THE OWNER, TOWN AND DEP.

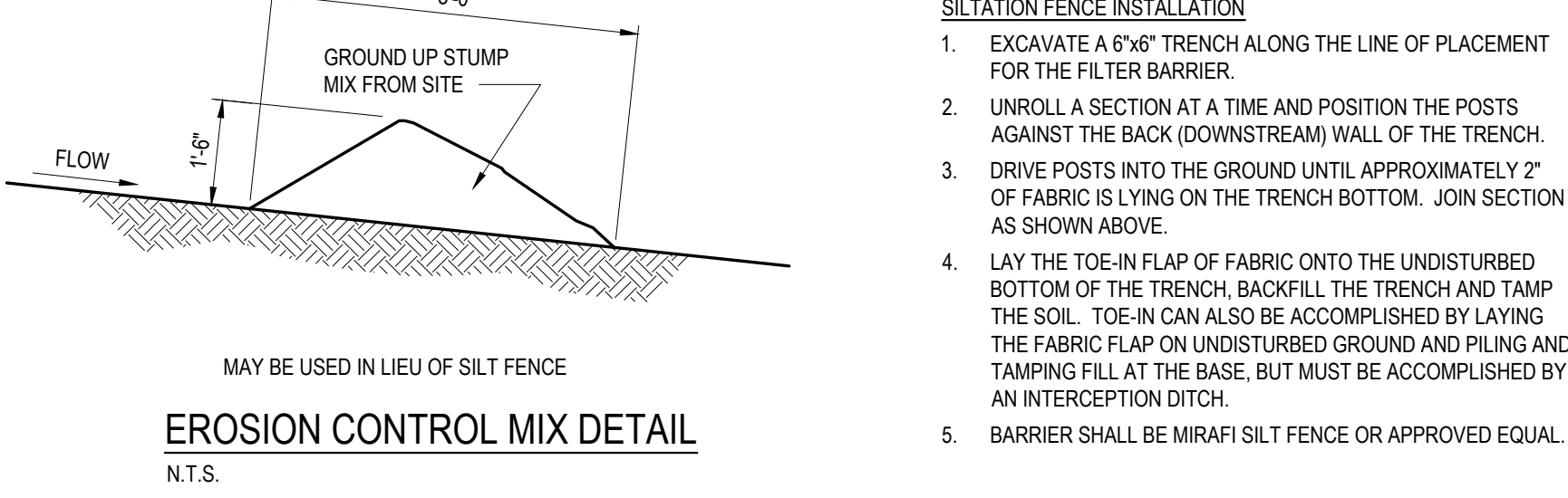
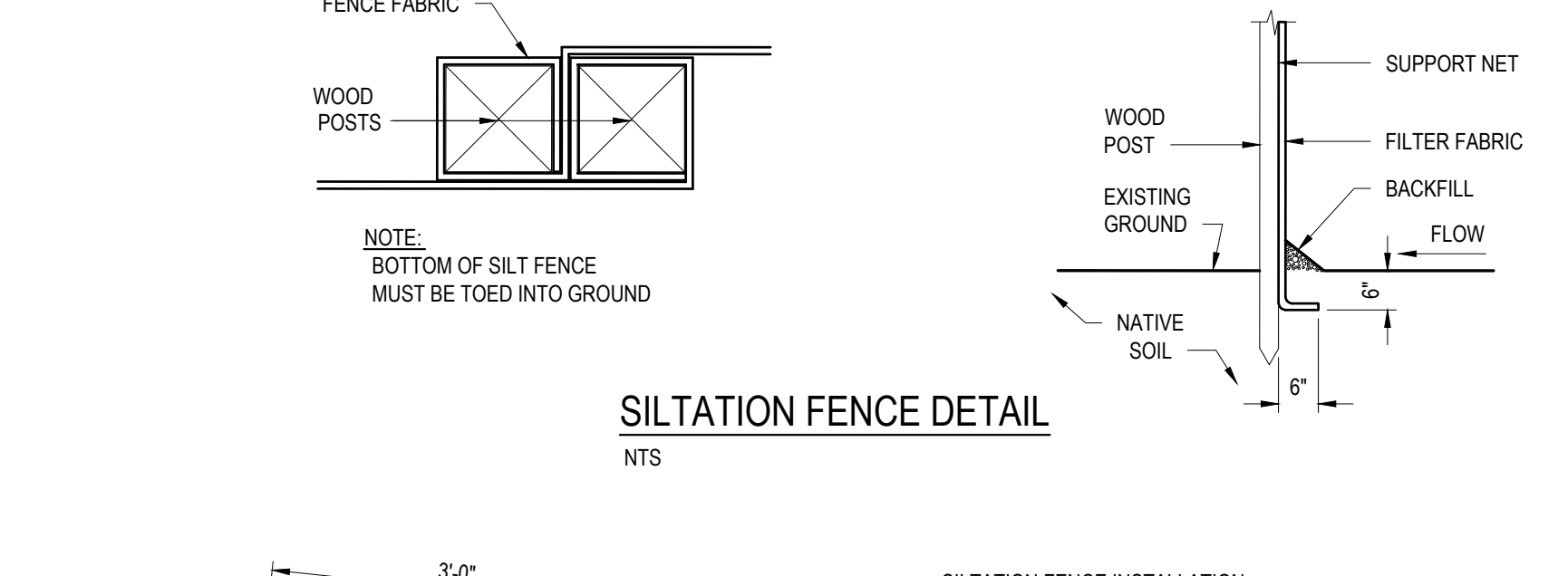
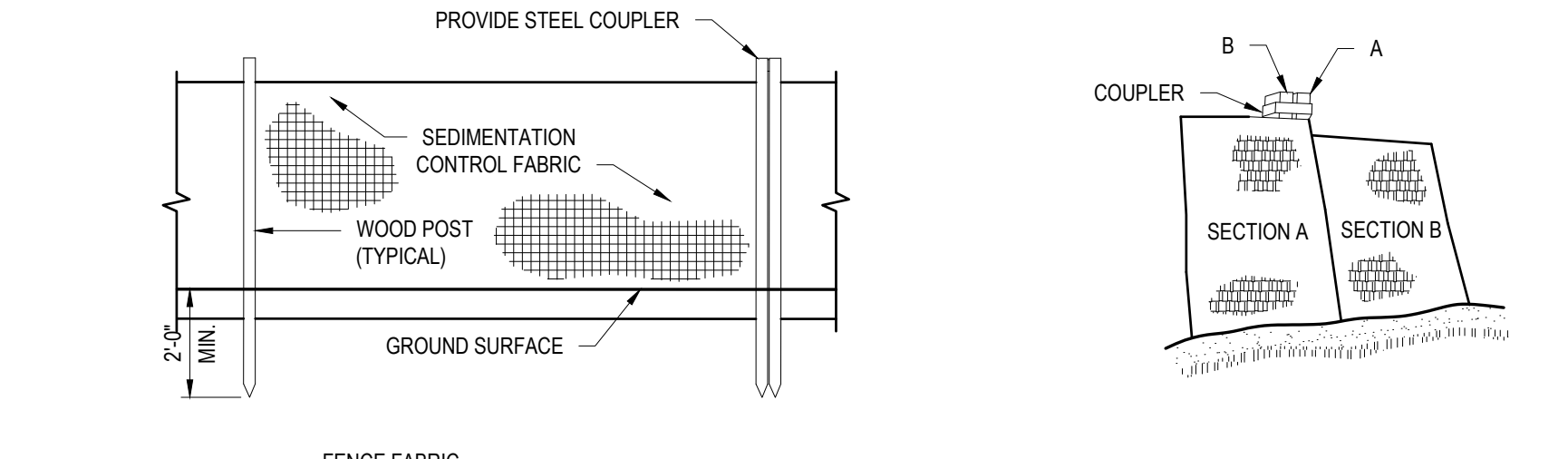
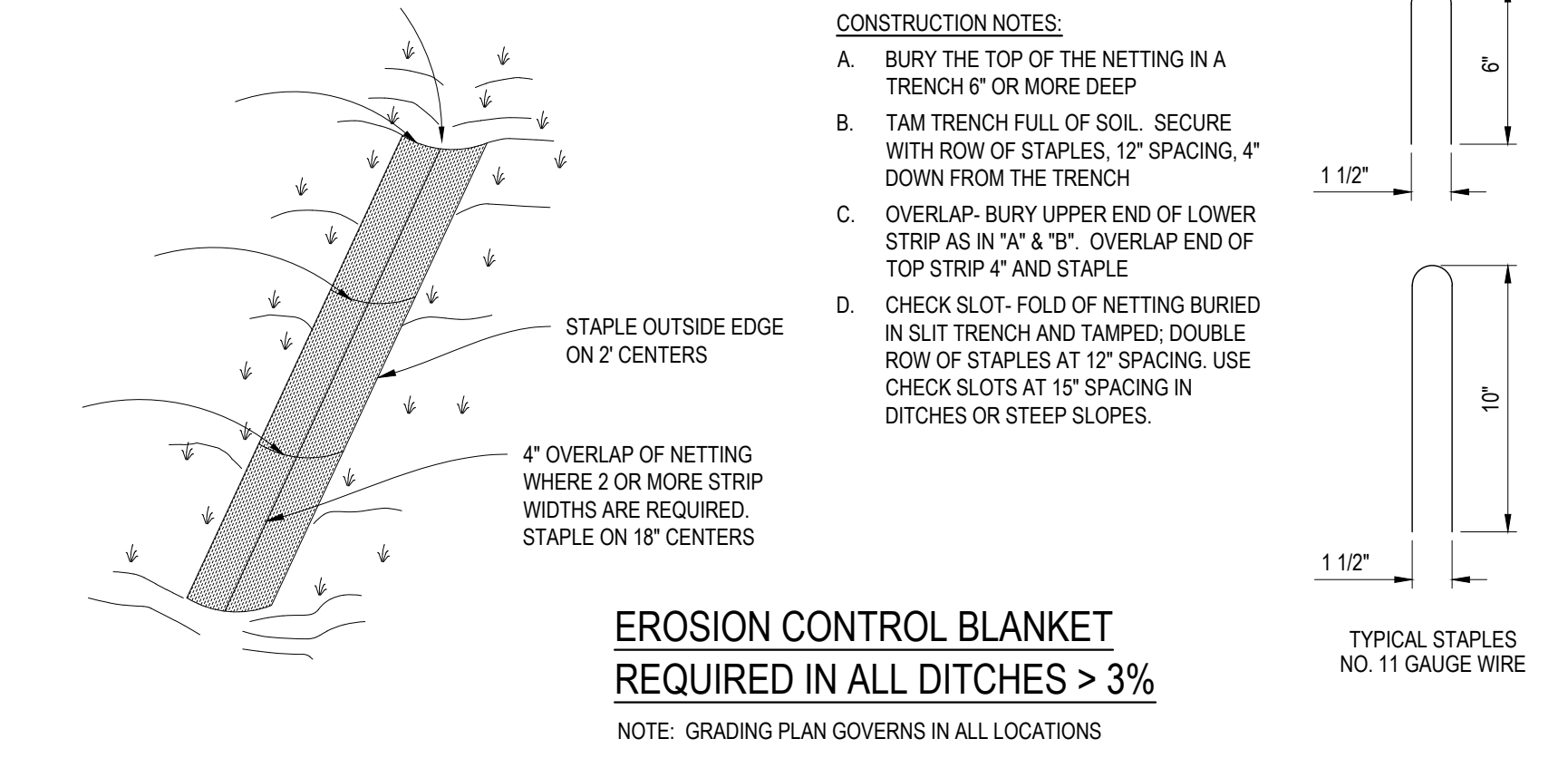
2. SHORT-TERM SEDIMENTATION MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN OUT ALL SWALES AND STRUCTURES PRIOR TO TURNING PROJECT OVER TO THE CITY.

**MAINTENANCE AFTER CONSTRUCTION**

- LONG-TERM PROVISIONS FOR PERMANENT MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES AFTER ACCEPTANCE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE OWNER OR THEIR DESIGNEE. SUCH RESPONSIBILITIES INCLUDE BUT ARE NOT LIMITED TO THOSE DETAILED AS FOLLOWS:
  - PARKING LOT SHALL BE MECHANICALLY SWEEPED TWICE PER YEAR. THE FIRST SHALL TAKE PLACE IN THE MID WINTER (JANUARY THAW) TO REMOVE ACCUMULATED SANDS FROM WINTER SANDING TO THIS POINT. THE SECOND SWEEPING SHALL TAKE PLACE AFTER WINTER SANDING OPERATIONS TERMINATE BUT PRIOR TO MAY 1.
  - INSPECTION OF STORMWATER OUTLET STRUCTURE SHOULD BE CONDUCTED TWICE PER YEAR. ACCESS TO THE STRUCTURE IS THROUGH THE TOP. THE OIL/WATER SEPARATOR UNIT SHALL BE PUMPED DOWN AND THE SEDIMENT AND TRASH SHALL BE REMOVED AT THE TIME OF THE INSPECTION. THE REMOVAL OF ALL SEDIMENT AND TRASH WILL HELP MINIMIZE VOLUME LOSS.
- THE OWNER SHALL FILE A YEARLY MAINTENANCE REPORT TO THE CITY DOCUMENTING THE REQUIRED MAINTENANCE FOR THE STORMWATER SYSTEM.



## EROSION CONTROL BLANKET GENERAL INSTALLATION GUIDELINES ON SLOPES



STATE OF MAINE DOT  
CREW QUARTERS  
WALDOBORO, MAINE  
WIN 028559.00

PREPARED FOR:

TRILLIUM ENGINEERING GROUP  
189 MAIN STREET SUITE 200  
YARMOUTH, ME 04096

ERIC DUBE  
No. 12630  
LICENSED PROFESSIONAL ENGINEER

DATE	OCT. 2025	ME-12630	PE NUMBER	OCT. 2025	DATE
BY					
ED					
FOR BID					

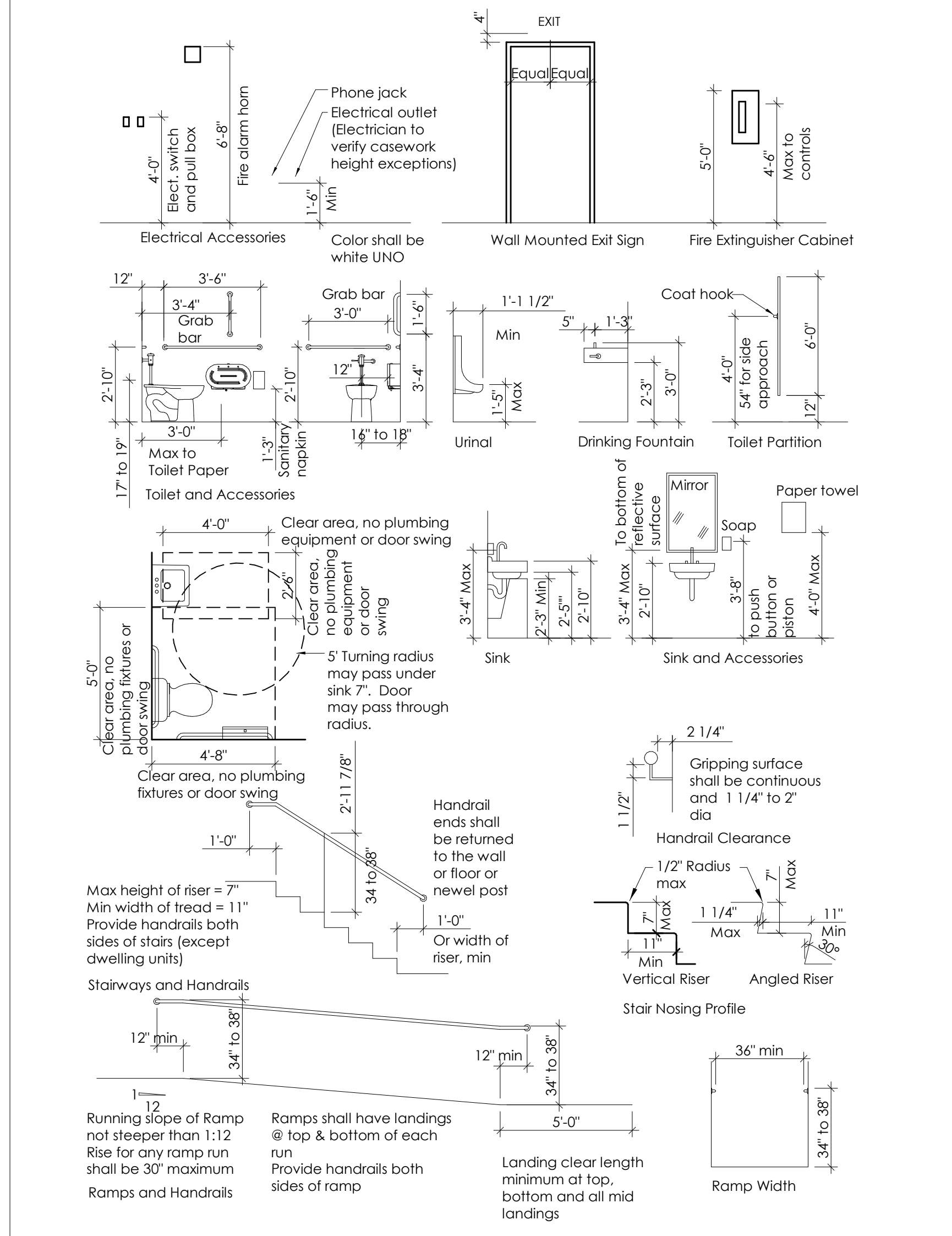
MDOT CREW QUARTERS  
WALDOBORO, MAINE  
EXISTING OVERALL  
SITE PLAN

SHEET NUMBER  
**6**

### General Notes

- All work included in these drawings and specifications shall conform to all state, national, and other codes and ordinances.
- The General Contractor shall be responsible for obtaining building permits and for payment of all fees and hook-ups. MDTOT will obtain State Fire Marshal approval.
- The General Contractor shall obtain approval from the MDTOT for staging areas and hours of allowable work times.
- Provide appropriate reinforcing within partitions for support of all grab bars, shelving, brackets, cabinets, door frames, water coolers, cubbies, fire extinguishers, lighting and other wall mounted equipment or appliances indicated in documents.
- General Contractor shall maintain a safe egress way throughout construction that is clearly identified.
- All doors shall be located a minimum of 4" (wall to frame) off adjoining stud walls, UNO.
- All handicapped toilet rooms, grab bars, and door openings shall meet the requirements of ANSI 117.1 latest edition, and the American Disability Act (ADA) for handicapped accessibility.
- All gypsum wall board within 3'-0" of plumbing fixtures shall be moisture resistant.
- Walls and partitions within 2'-0" of service sinks, urinals, and water closets shall have a smooth, hard, non-adsorbent surface, to a height of not less than 4'-0" above the finish floor (MR gypsum board is not acceptable as a finished product)
- Before penetrating or otherwise modifying joists, beams, or other structural members, consult with the Architect on maximum size and locations of penetrations.
- Provide double studs at all door frames over 3'-0" wide.
- All materials provided in this building shall be new and not previously used, UNO.
- All exits shall be kept readily accessible and unobstructed at all times.
- Location of every exit shall be clearly indicated by exit signs placed, if required, at an angle with the exit opening. Install directional signs to serve as guides from all portions of the corridor or floor.
- Dimensions are to face of framing, studs, structural grid lines and/or foundations UNO.
- Install Rockwool sound attenuation batt insulation in all bathroom partitions and above gypsum board ceilings.
- General Contractor shall properly dispose of all demolished and construction debris off-site, and shall make every effort to conserve and recycle materials.
- General Contractor shall install backing in walls for cabinetry, shelving, handrails, mirrors, and accessories.
- Provide a continuous bead sealant in all joints in the building envelope and penetrations that may allow for passage of moisture or vapor gas through structure.
- All signage to conform with ADA, including raised braille characters in public areas.
- Do not scale drawings, work from dimensions only
- General Contractor shall verify all dimensions and report any discrepancies to the Architect before proceeding with any work
- Guarantee: All materials and work shall be guaranteed for a minimum of one year from the date of final payment.

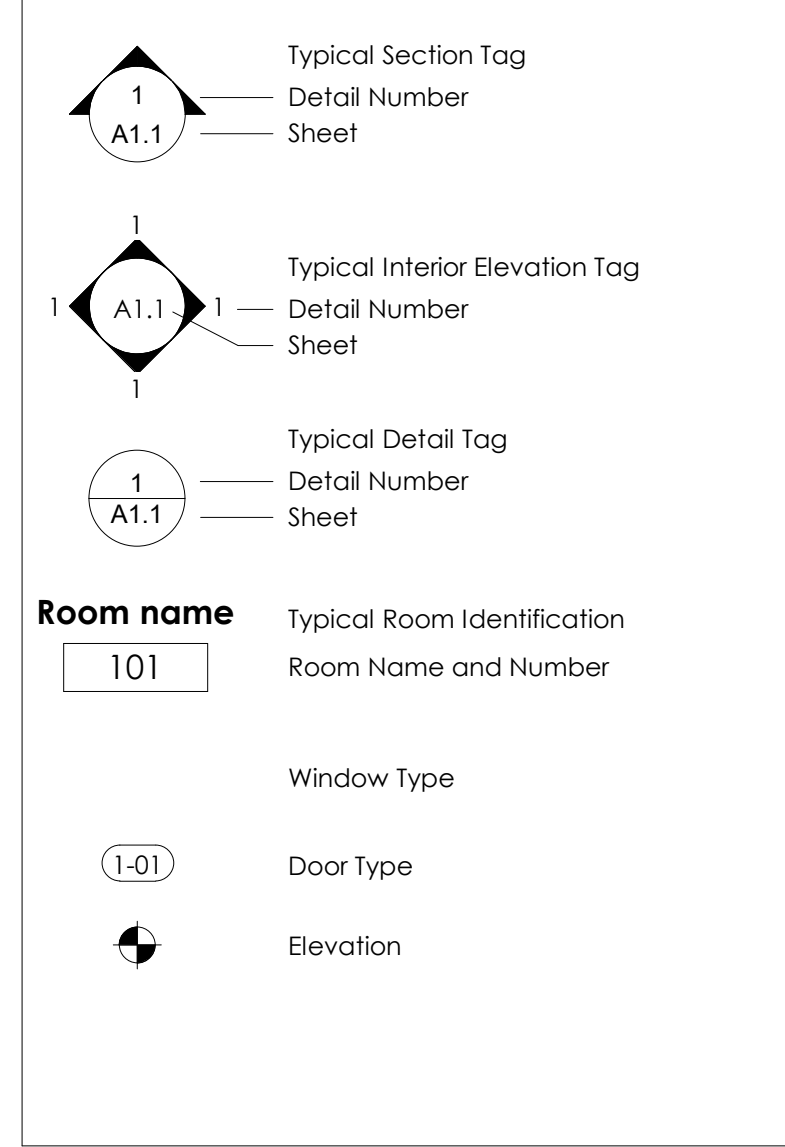
### Standard Heights and Clearances / Typical Barrier Free Requirements



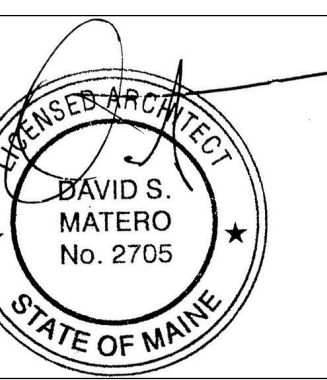
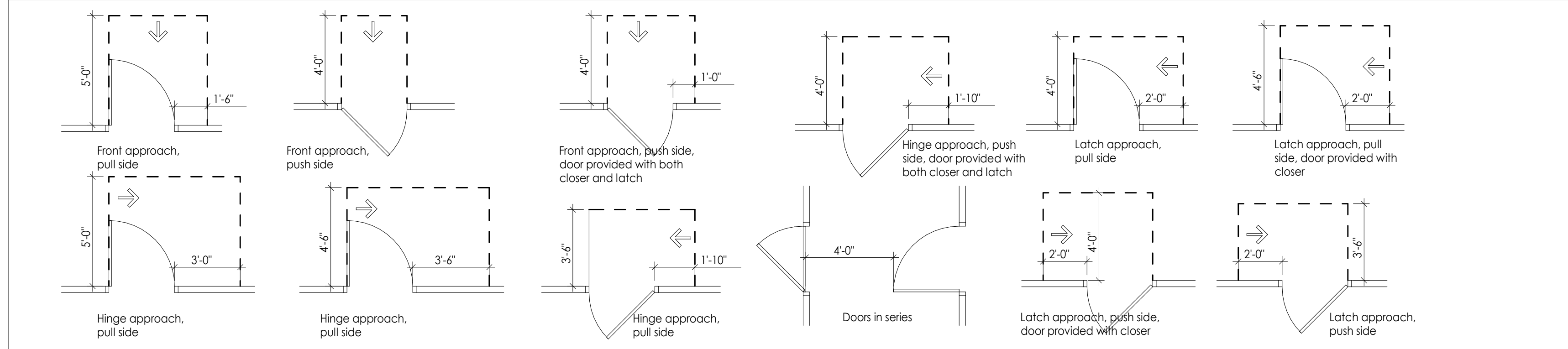
### Abbreviations

Act	Acoustical Tile	Ga	Gauge	Prep	Preparation
AFF	Above Finished Floor	GC	General Contractor	PSF	Pounds per Square Foot
Alt	Alternate	GI	Glass	PSI	Pounds per Square Inch
Alum	Aluminum	GWB	Gypsum Wallboard	PT	Pressure Treated
AP	Access Panel	Gyp	Gypsum	QT	Quarry Tile
Arch	Architect				
BD	Board	HD	High Density	R	Radius, Riser
Bit	Bituminous	HR	Hour	RD	Roof Drain
Bldg	Building	HC	Hollow Core	Rec	Recreation
Blkg	Blocking	H. Hgt	Height	Rect	Rectangular
BO	Bottom Of	HM	Hollow Metal	Ref	Reference
Btw	Between	Hor	Horizontal	Req	Required
		Htg	Heating	Reinf	Reinforcing
		HVAC	Heating/Ventilation/Air Conditioning	Rev	Revised, Revision
Cab	Cabinet	HW	Hot Water	Rm	Room
CB	Catch Basin	Hyd	Hydrant	RO	Rough Opening
CF	Cubic feet			RWB	Rubber Wall Base
CJ	Control Joint				
Clc	Closet	Incl	Include, Including	S	South
Clg	Ceiling	ID	Inside Diameter	San	Sanitary
CMU	Concrete Masonry Unit	In (")	Inch	SC	Solid Core
Co	Cleanout	Insul	Insulate, Insulating	SD	Storm Drain
Col	Column	Int	Interior	SF	Square Foot
Conc	Concrete	Inv	Invert	Sht	Sheet
Const	Construction	JC	Janitor's Closet	Sim	Similar
Cont	Continue, Continuous	Jt	Joint	Spec	Specification
Coord	Coordinate			STC	Sound Transmission Coefficient
CT	Ceramic Tile	Lam	Laminated		
CUH	Cabinet Unit Heater	Lav	Lavatory	Std	Standard
CW	Cold Water	LCC	Lead Coated Copper	Stl	Steel
CY	Cubic Yard	LF	Linear Foot	Sto	Storage
		Lin	Linear	Susp	Suspended
DAP	Dens Armor Plus				
Dbl	Double	Max	Maximum	Tr	Tread
DF	Drinking Fountain	Mech	Mechanical	Tel	Telephone
Dia	Diameter	Mfr	Manufacturer	Temp	Temperature, Tempered
Diag	Diagonal	Misc	Miscellaneous	T&G	Tongue and Groove
Dim	Dimension	MO	Masonry Opening	Th	Thickness
Dn	Down	MR	Moisture Resistant	TO	Top of
Dwg	Drawing	Mtd	Mounted	TV	Television
		Mtg	Mounting	Typ	Typical
E	East	Mtl	Metal		
Ea	Each			UL	Underwriters Laboratories
EF	Exhaust Fan	N	North	UNO	Unless Noted Otherwise
EJ	Expansion Joint	Nat	Natural	Util	Utility
Elev	Elevation	NIC	Not in Contract		
Elec	Electrical	No	Number	VCT	Vinyl Composition Tile
Eq	Equal	NTS	Not to Scale	Vent	Ventilation
ETR	Existing to Remain			Vert	Vertical
Exam	Examination	OC	On Center	Vest	Vestibule
Ex, Exist	Existing	OD	Outside Diameter	VWB	Vinyl Wall Base
Exp	Expansion	OH	Opposite Hand		
Ext	Exterior			W	West, Width
FAP	Fire Alarm Pull	PI	Plate	W/	With
FBO	Furnished by Owner	Plam	Plastic Laminate	W/D	Washer / Dryer
FCO	Floor Clean Out	Plywd	Plywood	WC	Water Closet
FD	Floor drain	Pnt	Paint	Wd	Wood
Fdn	Foundation	Poly	Polyethylene	W/O	Without
FEC	Fire Extinguisher Cabinet	Pre	Pre-finished	WWM	Welded Wire Mesh
Fg	Fiberglass				
Fin	Finish			XPS	Extruded Polystyrene
Flr	Floor				
FO	Face Of				
FRP	Fiberglass Reinforced Panel				
Fl (")	Foot				
Flg	Footling				

### Legend Symbol



### Maneuvering Clearances at Manual Swinging Doors and Gates



DATE	OCT. 2025	2705	PE NUMBER	OCT. 2025	DATE
BY	DM				
FOR BID					

**CODE ANALYSIS**

<b>MDOT Crew Quarters</b>
Waldoboro, ME

<b>APPLICABLE CODES</b>
The building shall comply and / or conform with the following construction codes, standards and guidelines which includes the Maine Uniform Building and Energy Code
International Building Code (IBC) - 2021 Edition International Existing Building Code (IEBC) - 2021 Edition International Energy Conservation Code (IECC) - 2021 Edition ASHRAE 62.1 Ventilation for Acceptable Indoor Air Quality - 2016 Edition ASHRAE 90.1 Energy Standards for Buildings except Low-Rise Residential - 2016 Edition NFPA 101 Life Safety Code - 2018 Edition Uniform Plumbing Code (UPC) - 2015 Edition ADA Standards for Accessible Design, Dept of Justice - 2010 Edition

<b>USE AND OCCUPANCY CLASSIFICATION</b>	<b>PROJECT REQUIREMENTS</b>	<b>CODE REFERENCE</b>
USE CLASSIFICATION:	B: Business [Assembly space with less than 50 Occupants]	IBC Sect 304, LSC Chpt 3 IBC Sect 303.1.2

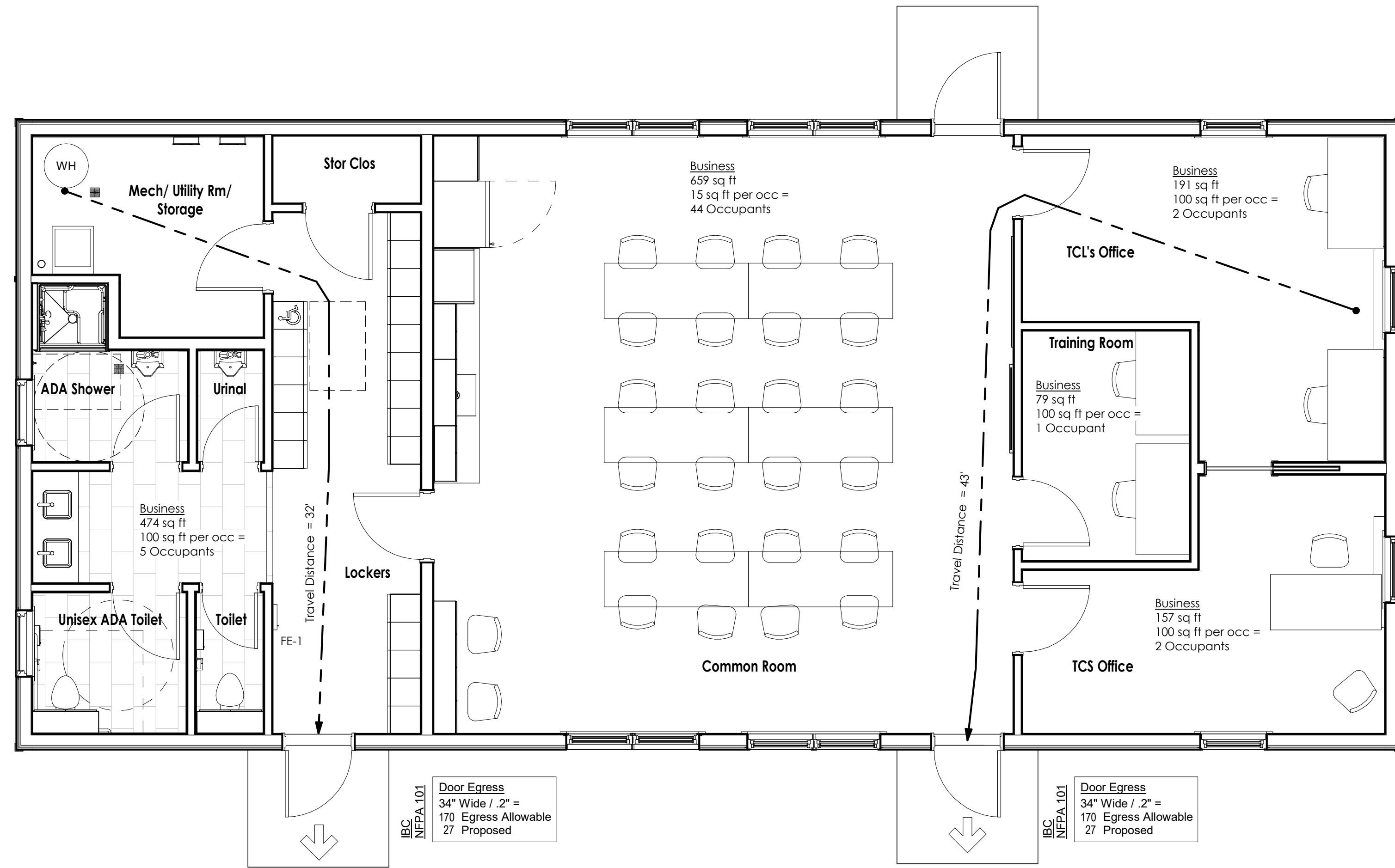
<b>CONSTRUCTION TYPE / FIRE BARRIER RATINGS</b>	<b>PROJECT REQUIREMENTS</b>	<b>CODE REFERENCE</b>
CONSTRUCTION CLASSIFICATION:	Type VB	IBC Table 504.4
Required Separation - Most restrictive, NFPA 101, requirements used	N/A	IBC Table 508.4, LSC Chpt 6
Fire Resistance Rating Requirements		IBC Table 601 Reference IBC Section 202
Primary Structural Frame	0 Hour	
Exterior Bearing Walls	0 Hour	
Interior Bearing Walls	0 Hour	
Exterior Non-Bearing Walls	0 Hour	
Interior Non-Bearing Walls	0 Hour	
Floor Construction - including supporting beams and joists	0 Hour	
Roof Construction - including supporting beams and joists	0 Hour	
Fire Barriers: Corridors	0 Hour	Reference Table 1020.1
Fire Barriers: Exit Enclosures	0 Hour	Reference Table 707.3
Fire Barriers: Shafts	0 Hour	IBC Section 713
Elements requiring supporting construction to be rated, shall have supporting construction rated equal to element being supported		

<b>BUILDING HEIGHT AND AREA</b>	<b>PROJECT REQUIREMENTS</b>	<b>CODE REFERENCE</b>
Allowable Building Height Above Grade:	40 Feet	IBC Table 504.3
Allowable No. of Stories Above Grade:	2 Stories	IBC Table 504.4
Actual Height / Stories:	16'-11" +/- / 1 Stories	
Allowable Building Area: Construction Type(s) = square feet	Type VB (NS) = 9,000 sf	
Actual Building Square Feet (sf)	1,646 +/- sf	

<b>INTERIOR FINISHES</b>	<b>PROJECT REQUIREMENTS</b>	<b>CODE REFERENCE</b>
Minimum Finish Class	B	IBC Table 803.11
Exits:	Class A	LCS Chpt 10
Corridors:	Class B	
Rooms:	Class C	

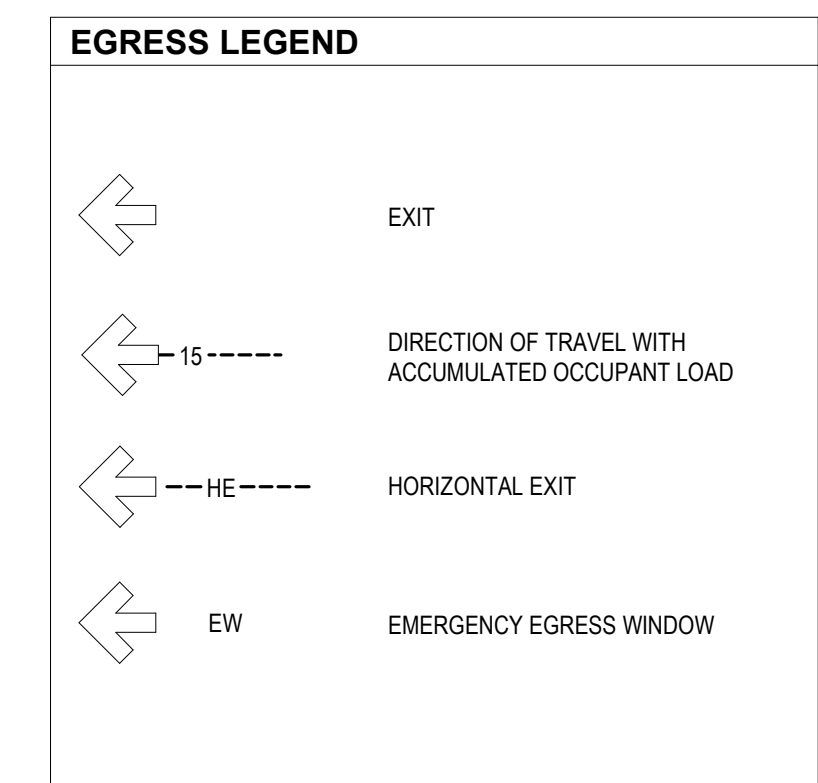
<b>MEANS OF EGRESS</b>	<b>PROJECT REQUIREMENTS</b>
Refer to Life Safety Plans; Number, Location and Capacity of Exits and Travel Distances	
Common Path of Travel Distance: Business, (B)	Reference Life Safety Plans 100 Feet - [Without Sprinkler] LCS Table A.7.6
Maximum Exit Access Travel Distance: Business (B)	Reference Life Safety Plans 200 Feet - [Without Sprinkler]
Stories with One Exit - B Occupancies	IBC Table 1006.3.2
Egress width - Inches per occupant	NFPA 101, CH. 7, TABLE 7.3.3.1 & IBC Section 1005
Doors:	0.2 [S]
Stairs:	0.3 [S]
Corridors:	0.2 [S]
Other Egress Components:	0.2 [S]

<b>IECC Commercial Energy Efficiency</b>	
<b>Required</b>	<b>Provided</b>
Climate Zone	6
Attic & Other R value - R-49	R-50
Wood Framed Exterior Wall - R20+R3.8ci	R-21+R6ci
Mass Wall Above Grade - R13.3ci	R-20
Below Grade Wall (non-heated slab) - R-10ci	R-20
Unheated slabs - R-20 for 24" below	R-20
Fixed Fenestration - U 0.34	N/A
Operable Fenestration - U 0.42	U 0.20 (Double Hung) U.18 (Awning)
Entrance Door - U.63	U 0.34



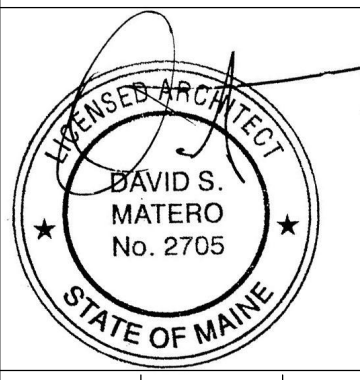
1 First Floor Egress Plan  
1/4" = 1'-0"

Note: See electrical drawings for Life Safety electrical devices



STATE OF MAINE DOT  
CREW QUARTERS WALDOBORO, MAINE  
WALDOBORO, MAINE  
WIN 028559.00

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CREW QUARTERS  
WALDOBORO, MAINE  
CODE ANALYSIS

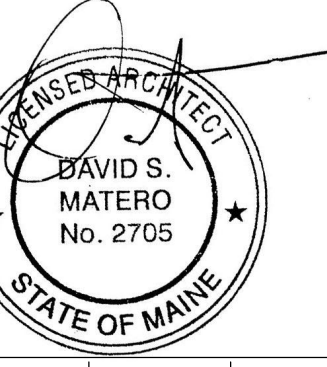
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STATE OF MAINE DOT  
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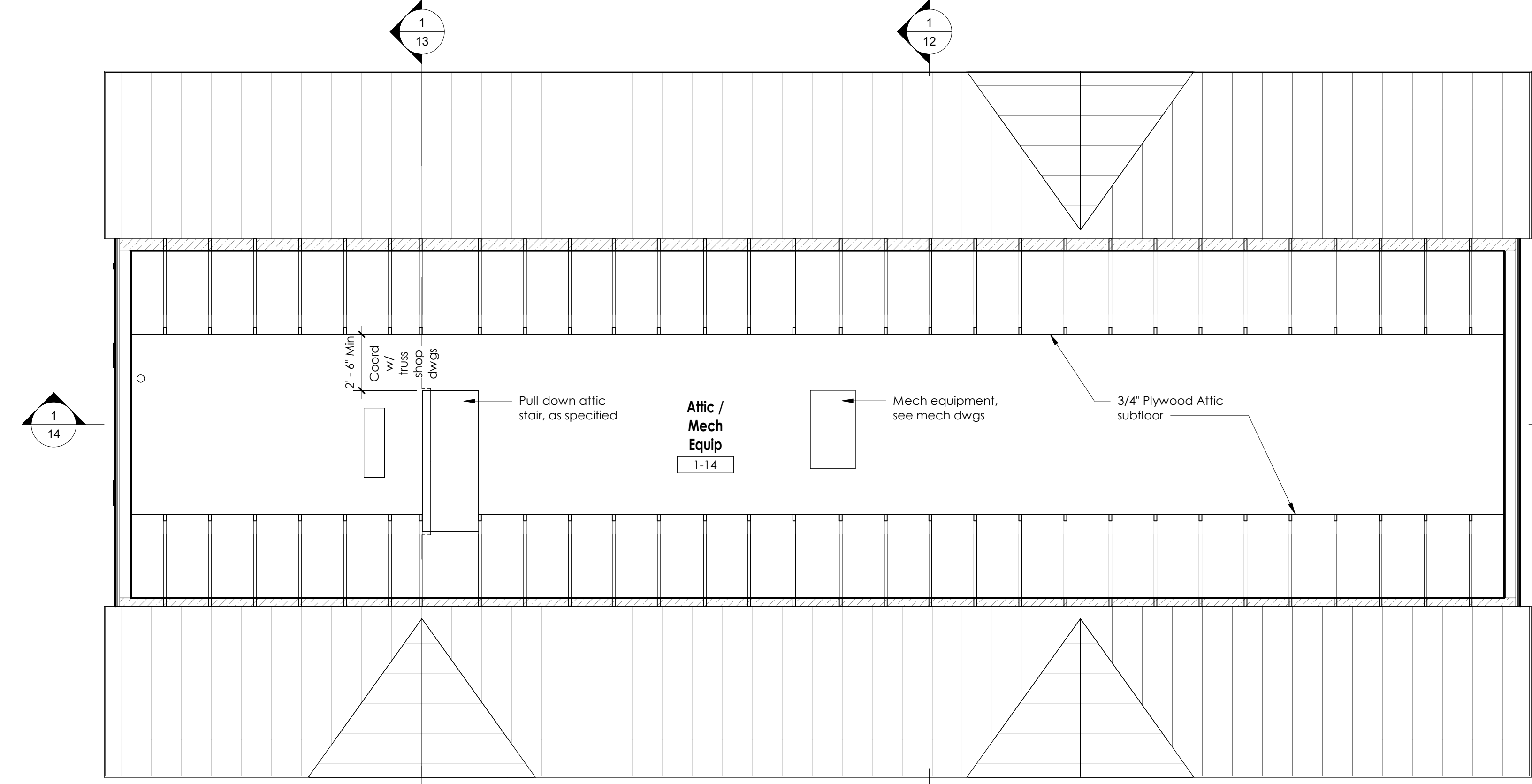


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	DM	OCT. 2025

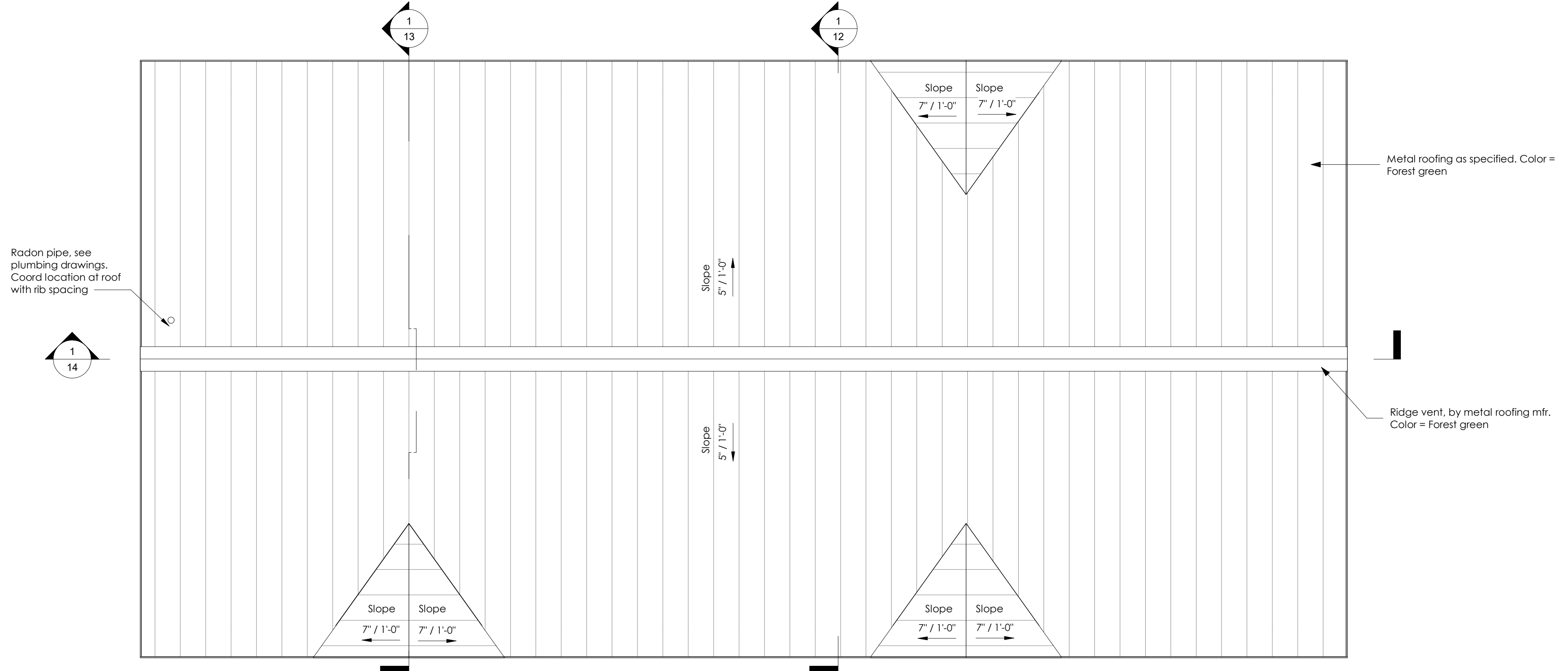
CREW QUARTERS  
 WALDOBORO, MAINE  
 ATTIC & ROOF PLAN

SHEET NUMBER

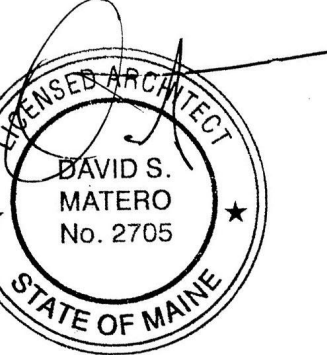
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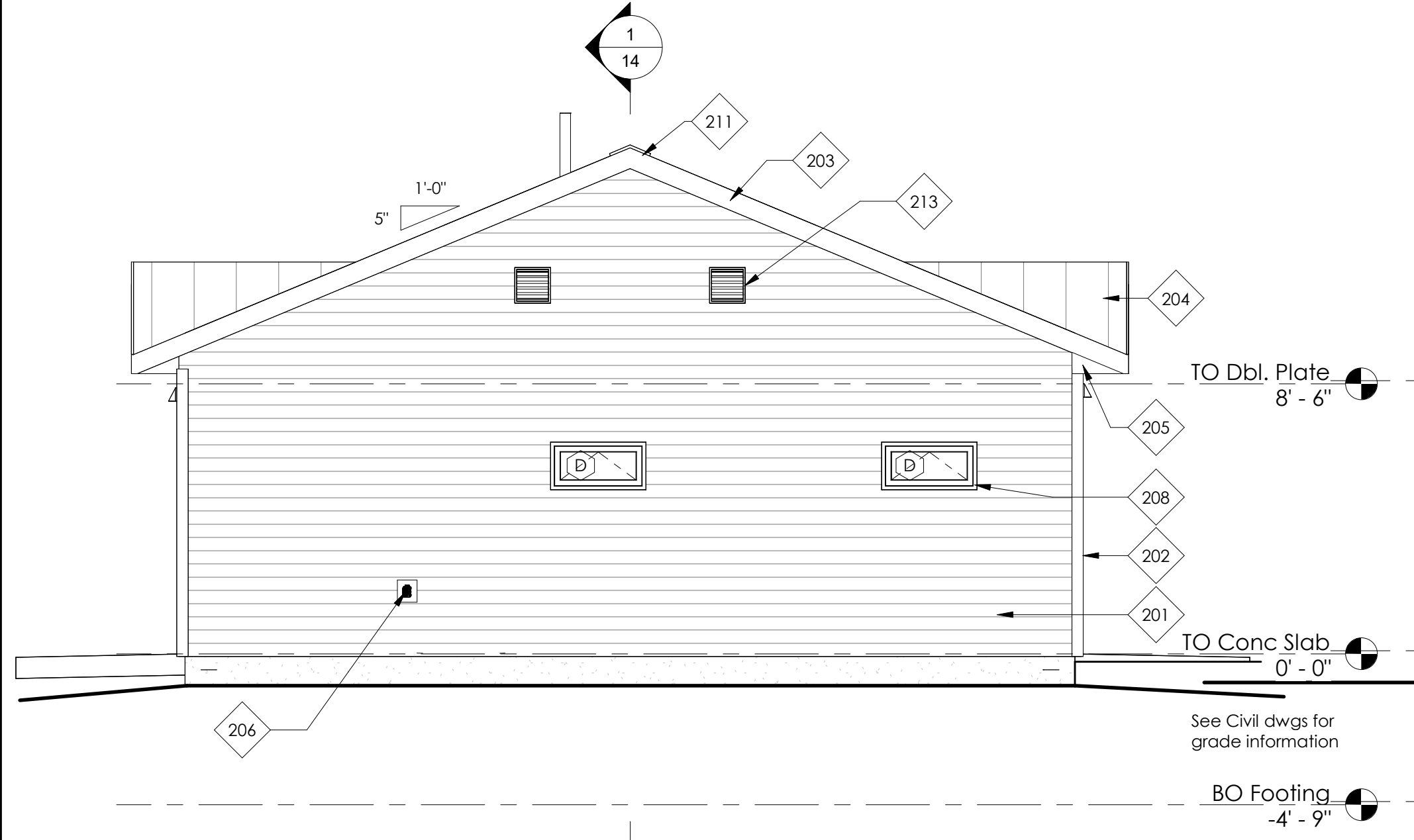
② Attic  
 1/4" = 1'-0"



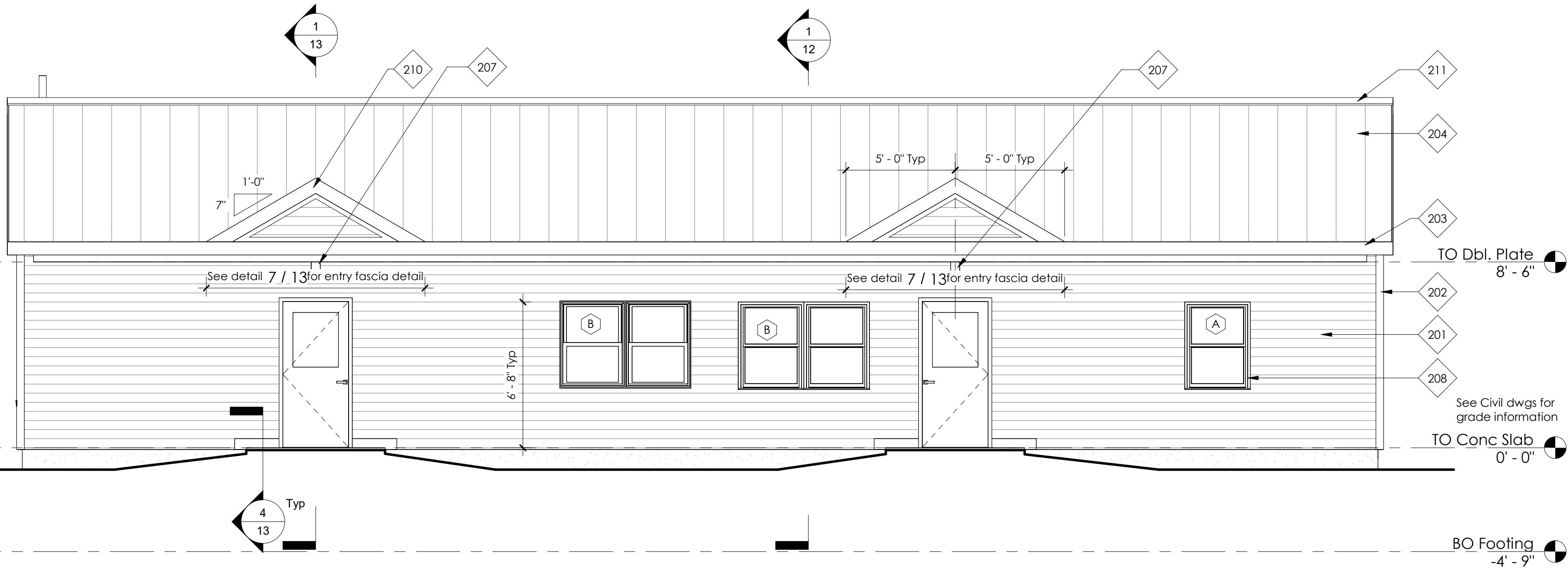
① Roof Plan  
 1/4" = 1'-0"



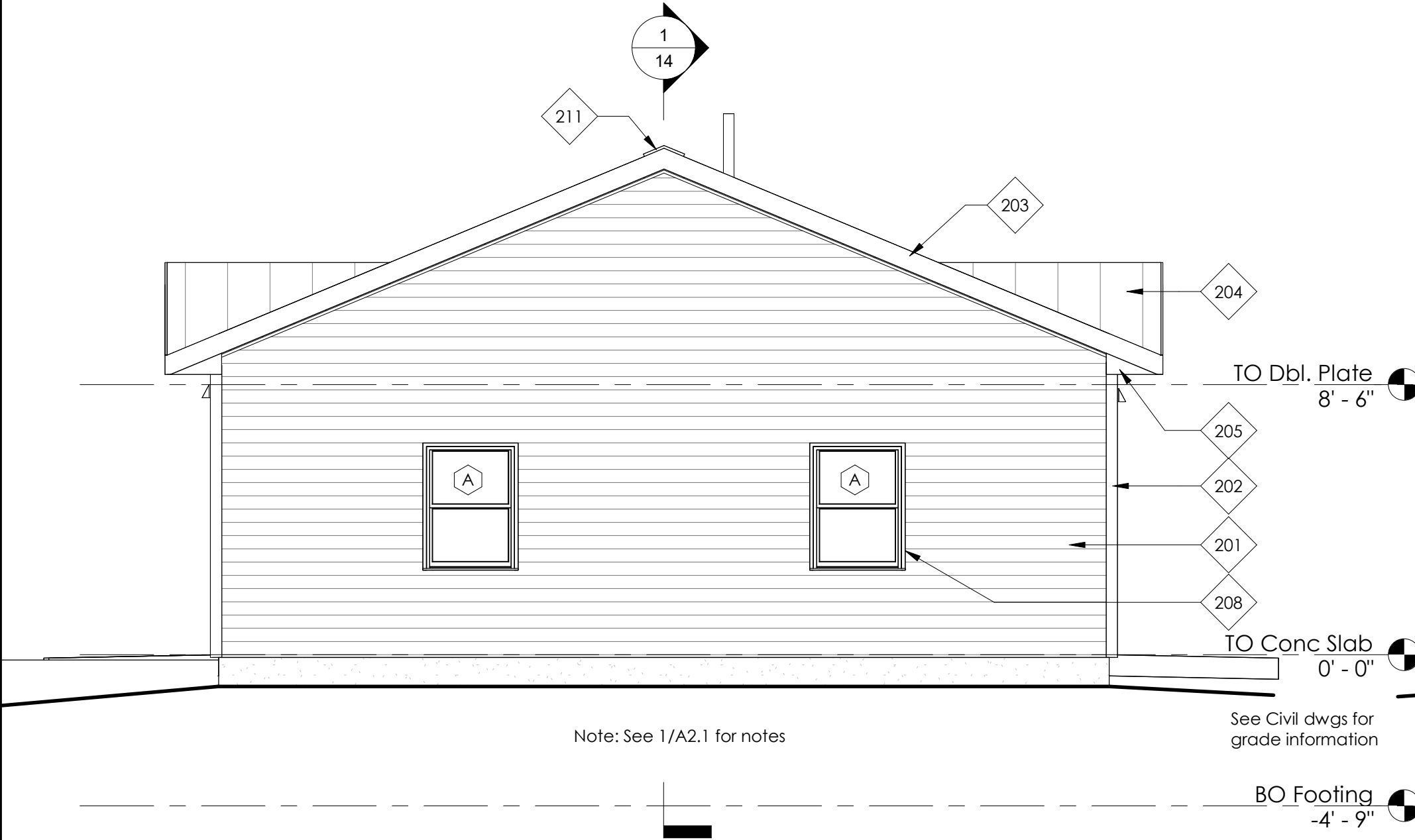
CREW QUARTERS  
 WALDOBORO, MAINE  
 BUILDING ELEVATIONS



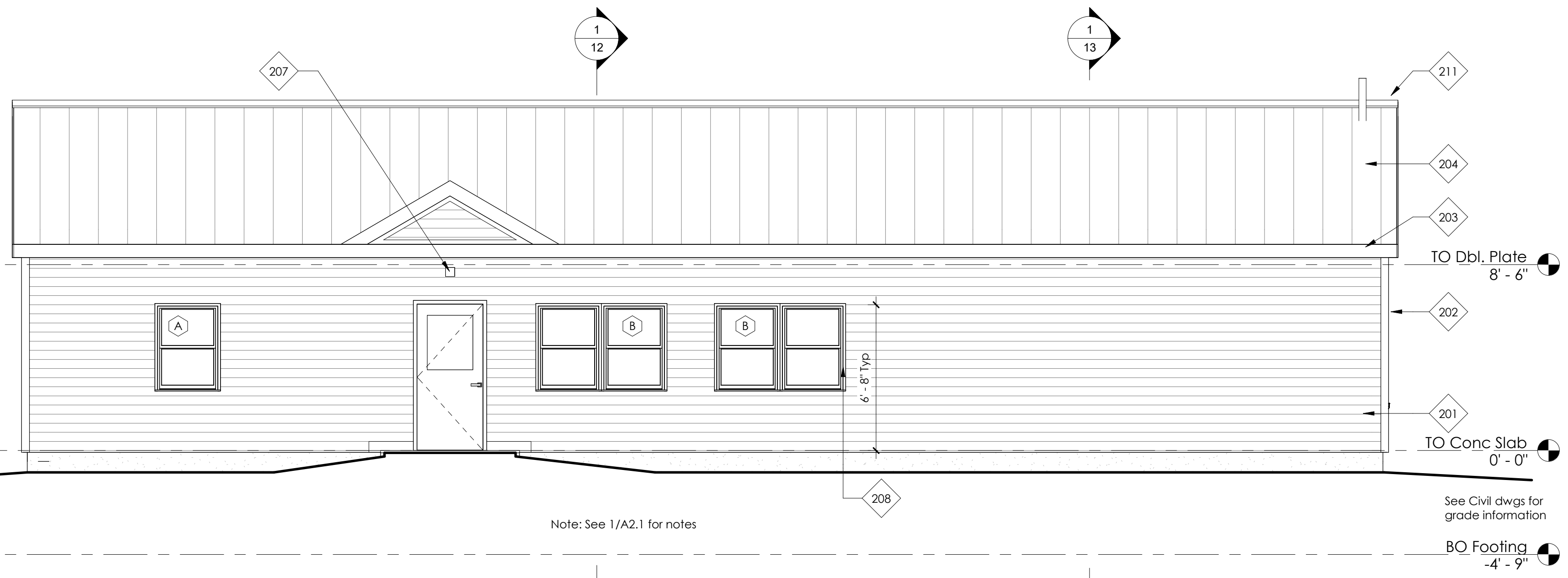
3 South Elevation  
 1/4" = 1'-0"



1 East Elevation  
 1/4" = 1'-0"



4 North Elevation  
 1/4" = 1'-0"



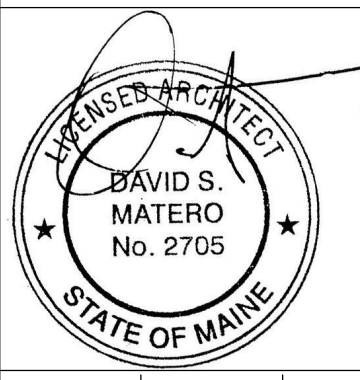
2 West Elevation  
 1/4" = 1'-0"

Exterior Elevation Key Notes	
201	Exterior horizontal vinyl siding
202	Vinyl siding corner trim
203	Metal wrapped exterior fascia board, see details. Color = Forest green
204	Metal roofing as specified. Color = Forest green

Exterior Elevation Key Notes	
205	Metal wrapped wd closure panel @ soffit, typ. Color = Forest green
206	Frost protected hose bib
207	Light fixture, see electrical drawings
208	Vinyl window, as specified

Exterior Elevation Key Notes	
210	Metal wrapped exterior trim, see details. Color = Forest green
211	Ridge vent, by metal roofing mfr. Color = Forest green
212	Venting vinyl soffit
213	Louver, see mechanical dwgs. Coord location with mechanical requirements.





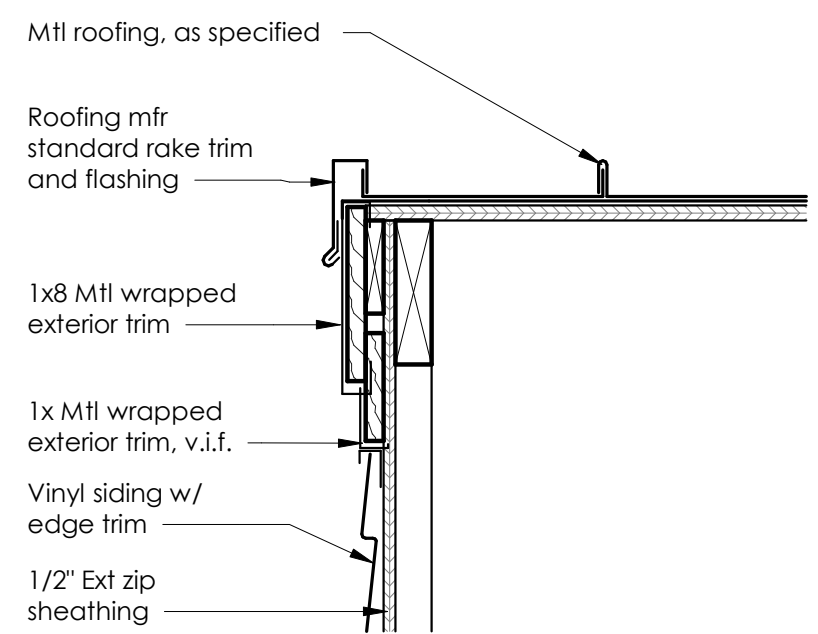
FOR BID	BY	DATE
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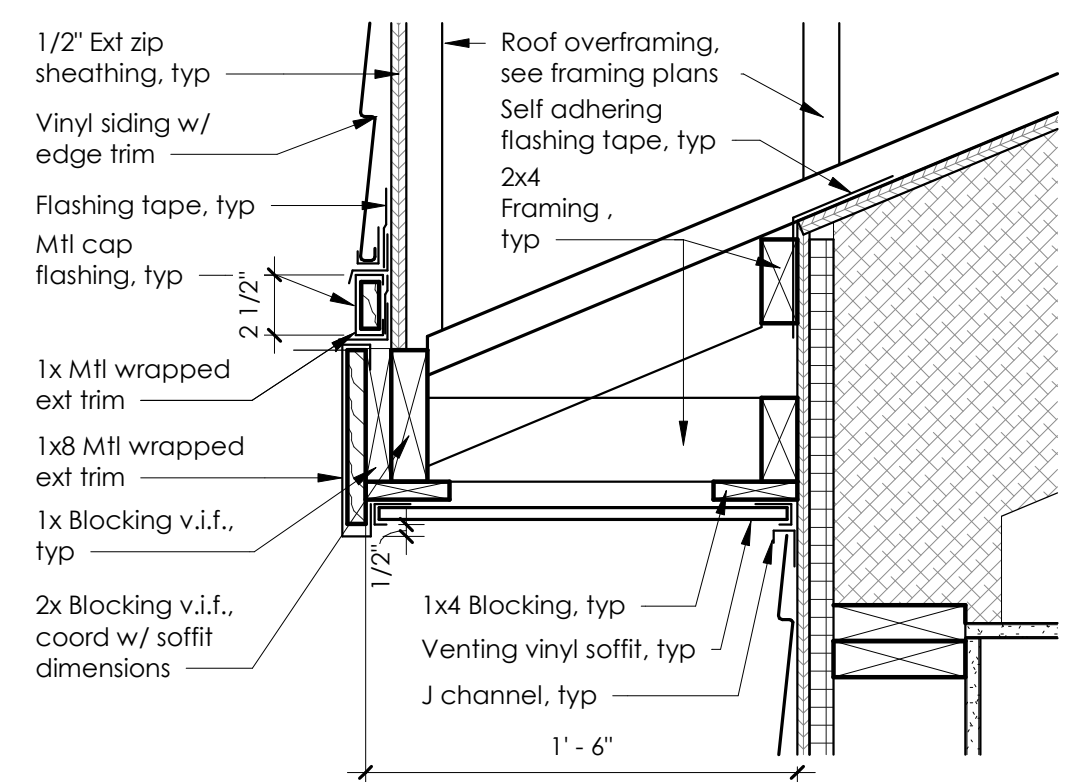
PE NUMBER	DATE
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**CREW QUARTERS  
 WALDOBORO, MAINE  
 BUILDING SECTION 2 &  
 DETAILS**

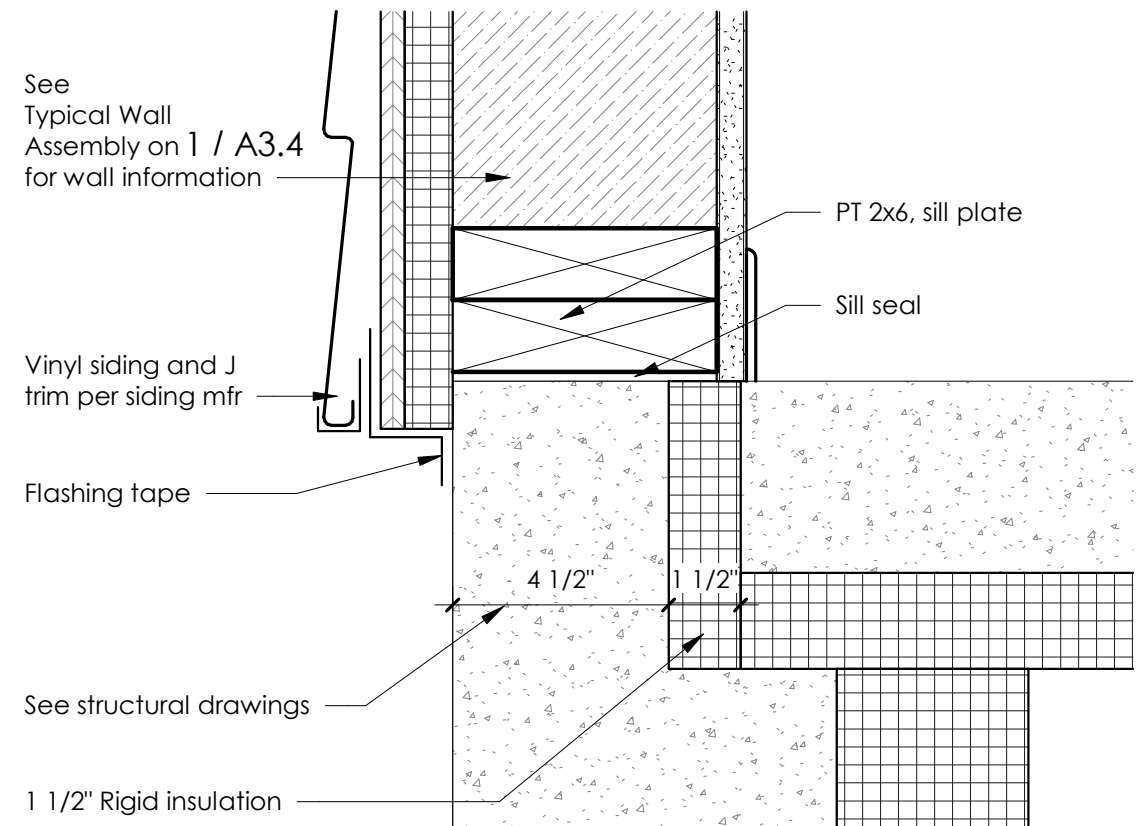
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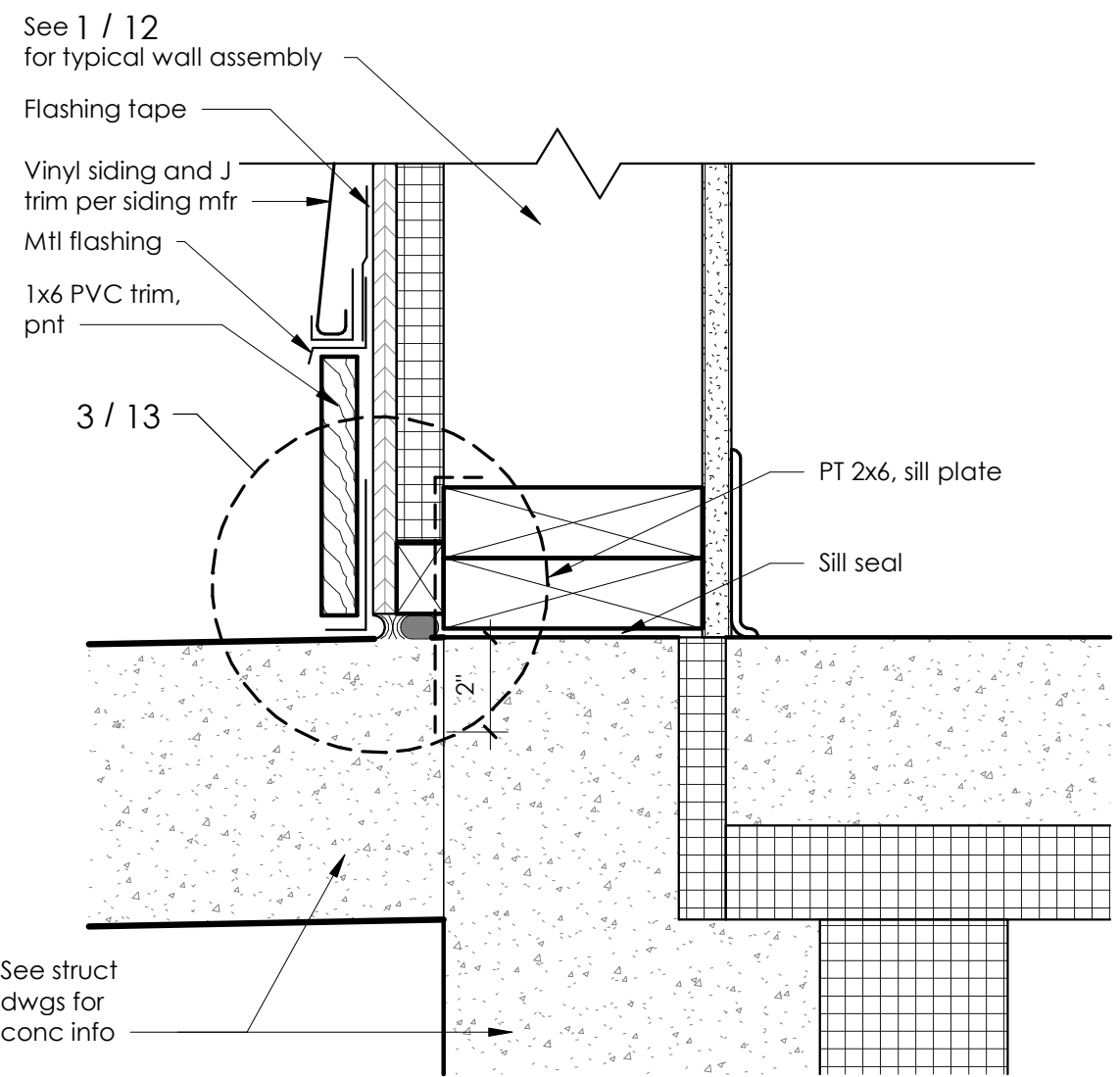
7 Typ Det @ Entry Roof Edge  
 1 1/2" = 1'-0"



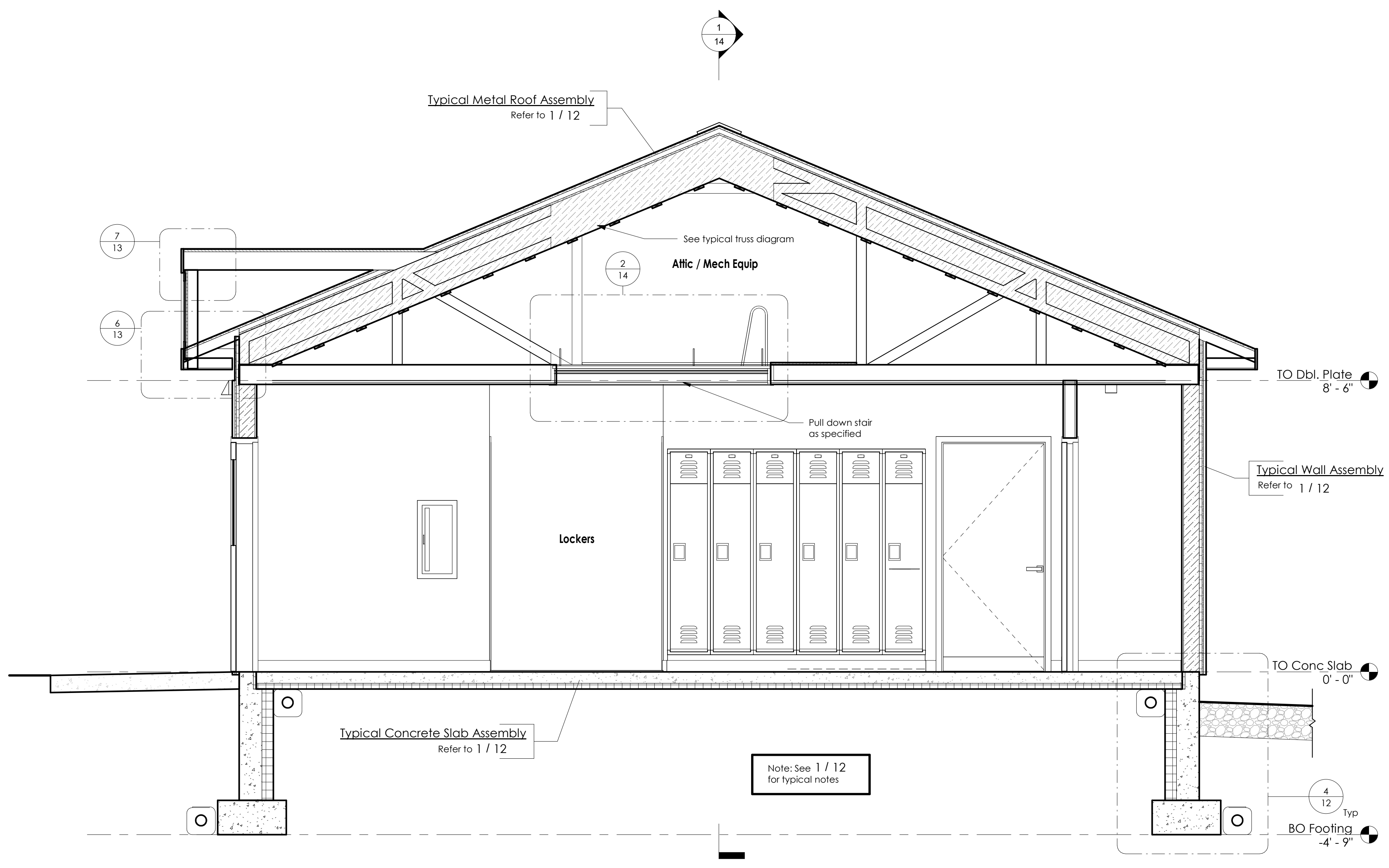
6 Typ Det @ Entrance soffit  
 1 1/2" = 1'-0"



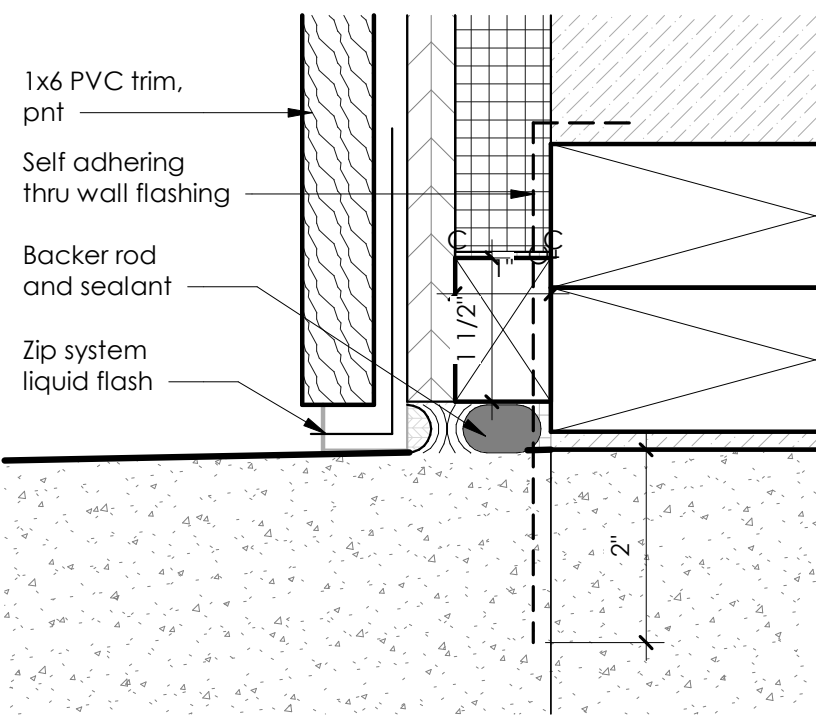
5 Typical Sill Plate Det  
 3" = 1'-0"



4 Wall to Slab Flashing Det  
 3" = 1'-0"



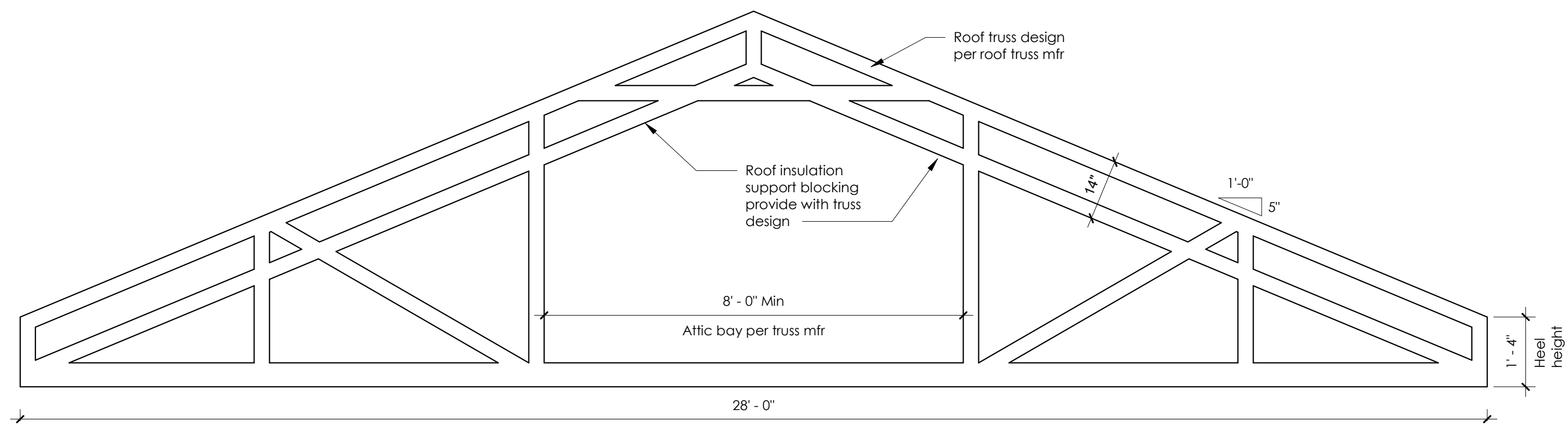
1 Section @ Entry Door  
 1/2" = 1'-0"



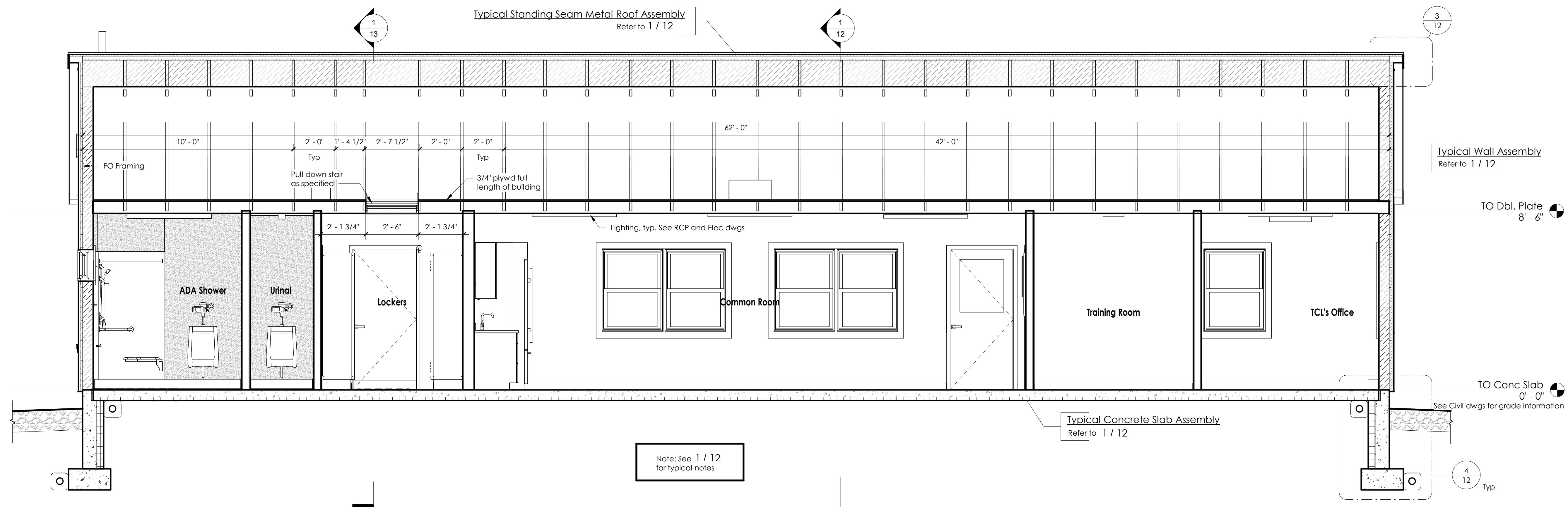
3 Wall to Slab Flashing Det Enlarged  
 6" = 1'-0"

Typical Concrete Slab Assembly  
 Refer to 1 / 12

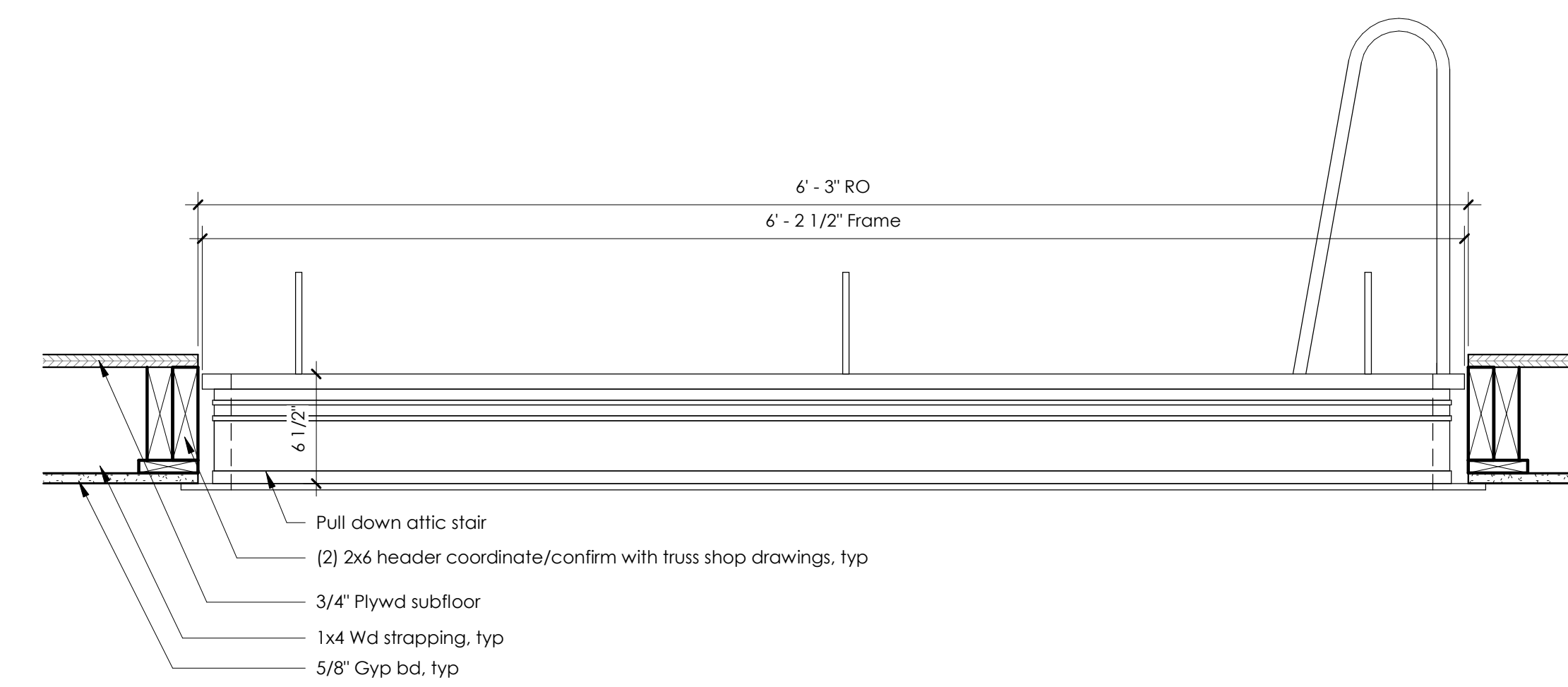
Note: See 1 / 12 for typical notes



2 Typical Truss Diagram  
 1/2" = 1'-0"



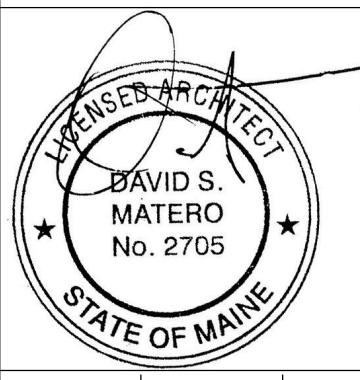
① Longitudinal Section  
3/8" = 1'-0"



② Attic Stair Section  
1 1/2" = 1'-0"

PREPARED FOR:  
STATE OF MAINE DOT  
CREW QUARTERS WALDOBORO, MAINE  
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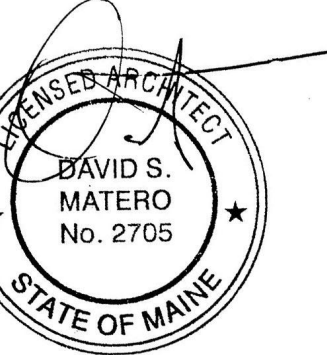


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OCT. 2025	DM			2705	OCT. 2025

**CREW QUARTERS  
WALDOBORO, MAINE  
BUILDING SECTION 3 &  
DETAILS**

SHEET NUMBER

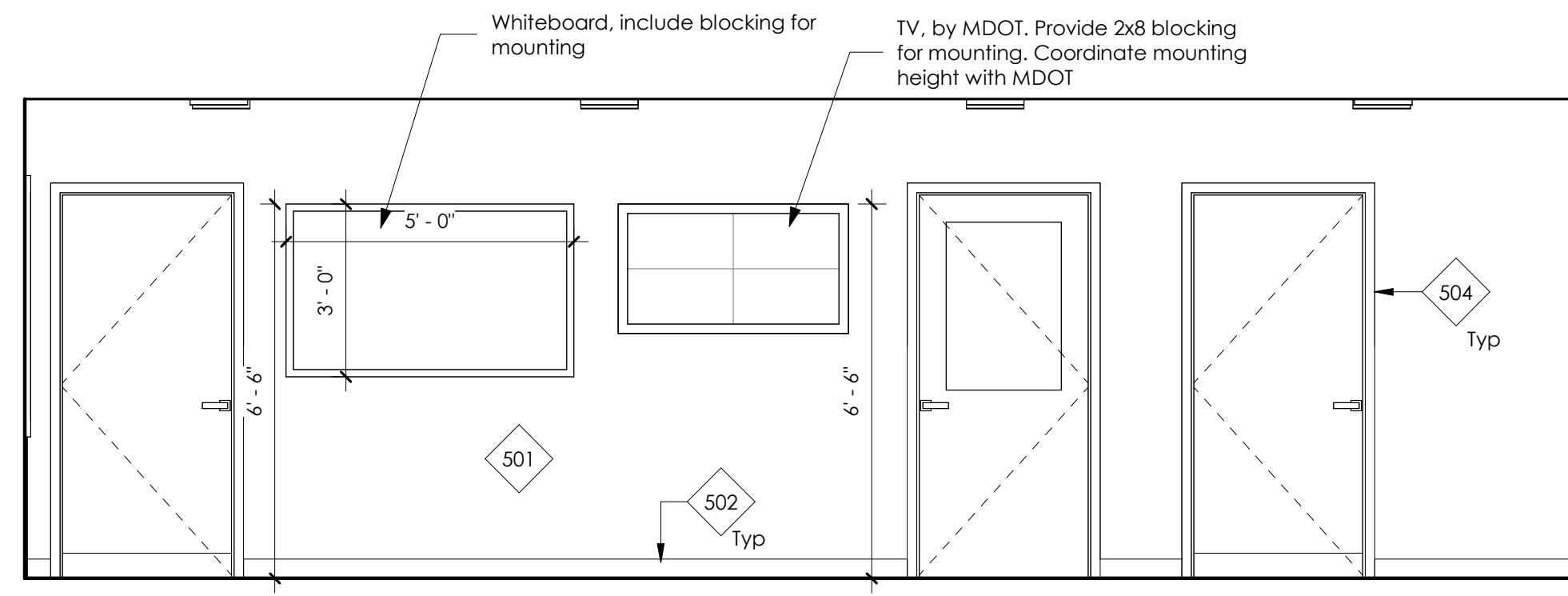
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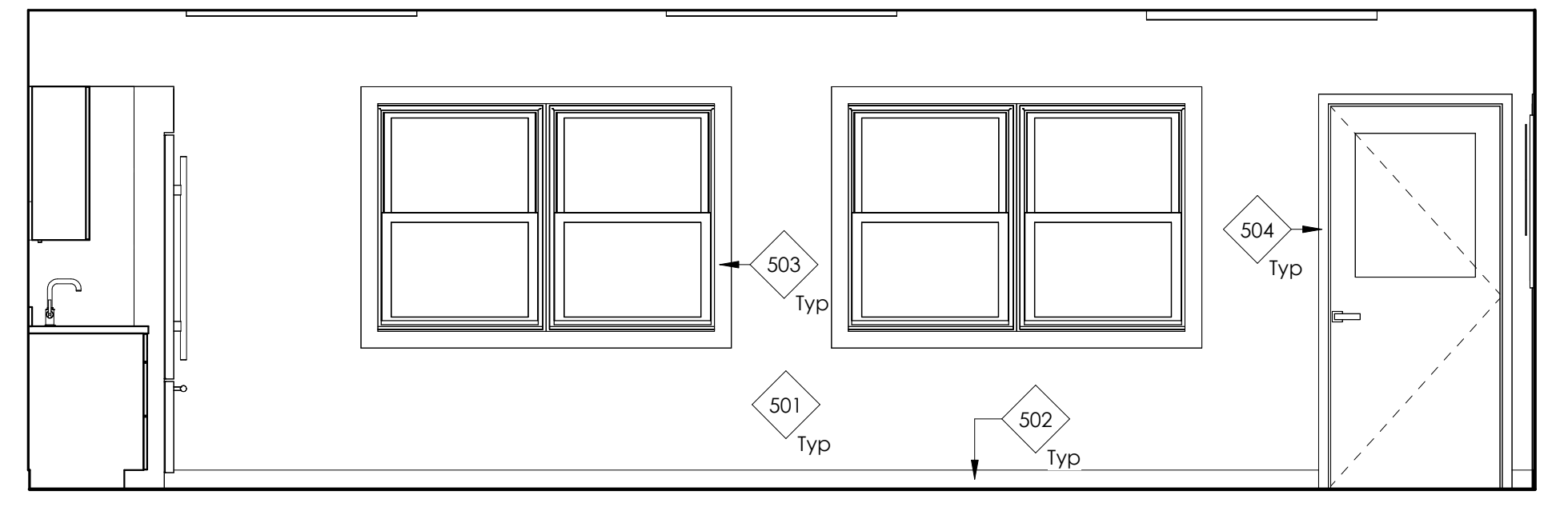
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	DM	OCT. 2025	2705	OCT. 2025

CREW QUARTERS  
 WALDOBORO, MAINE  
 INTERIOR ELEVATIONS 1

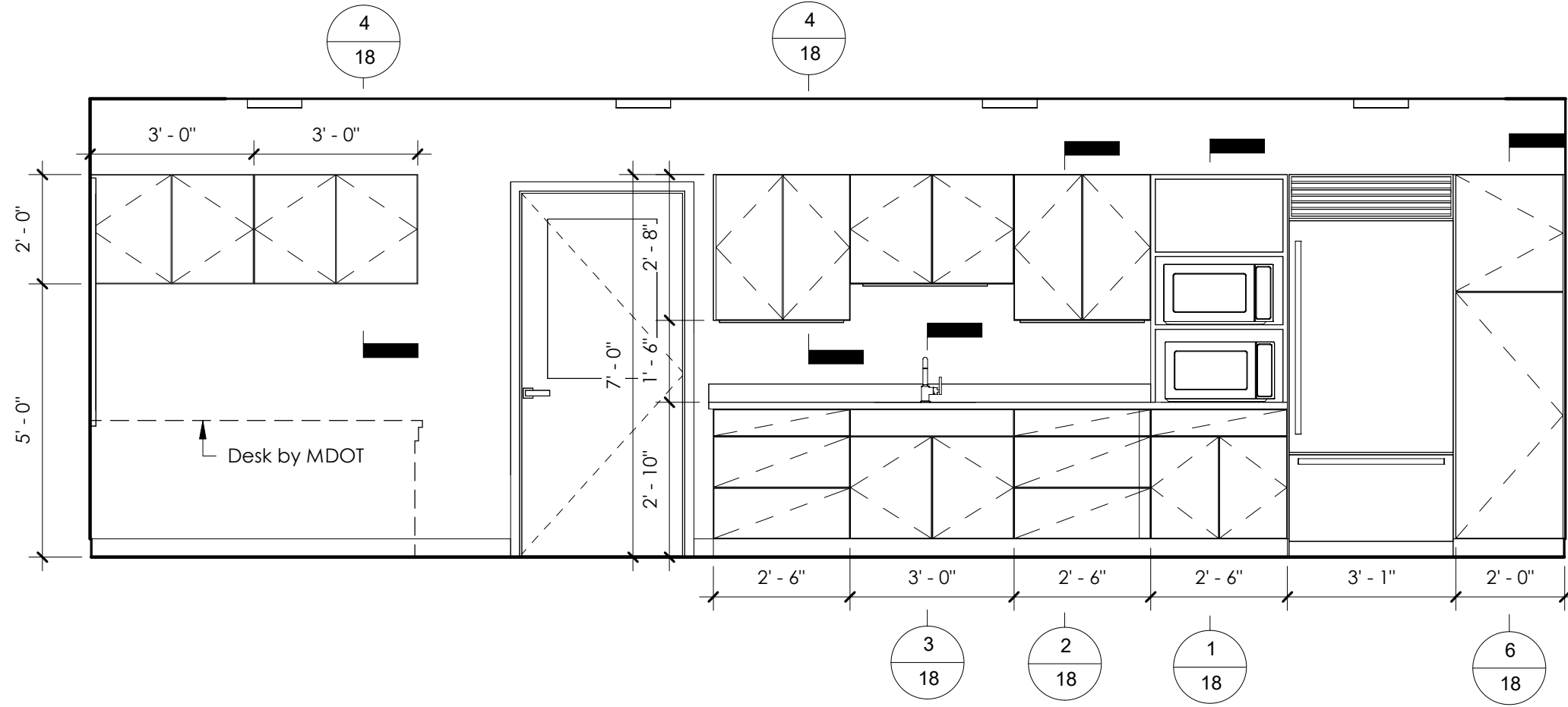
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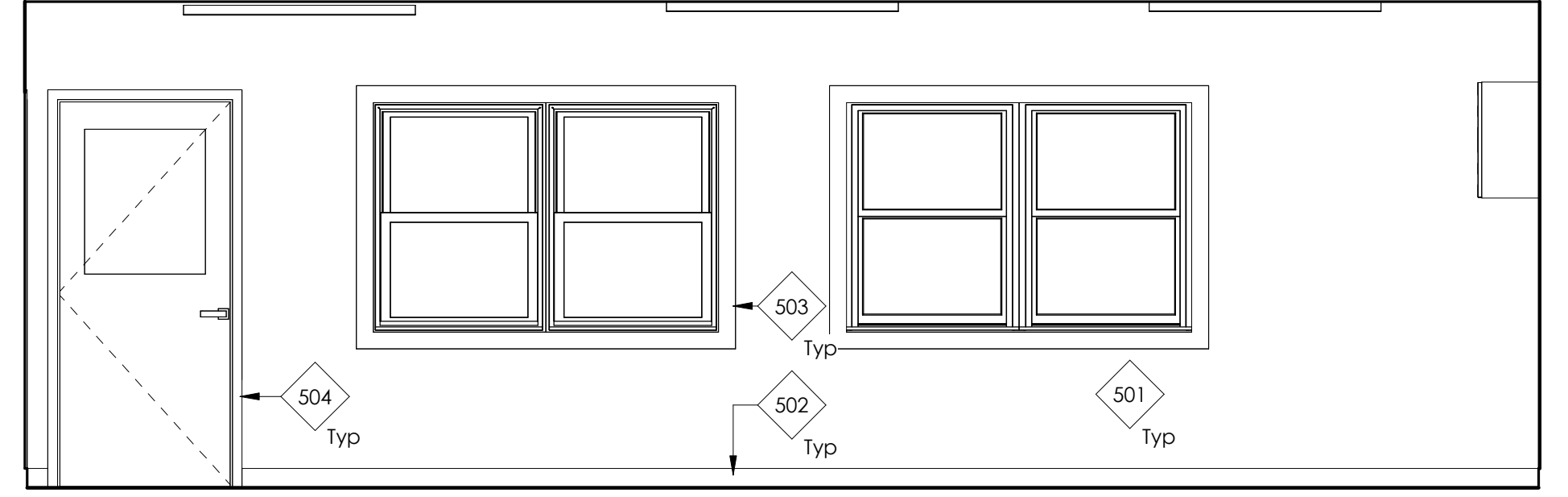
② Common Room  
 3/8" = 1'-0"



① Common Room  
 3/8" = 1'-0"

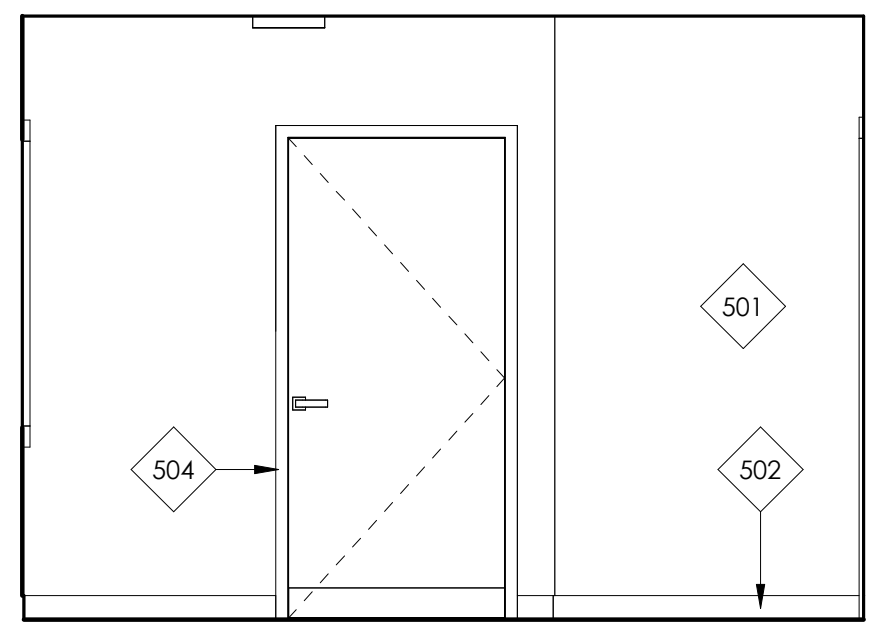


④ Common Room  
 3/8" = 1'-0"

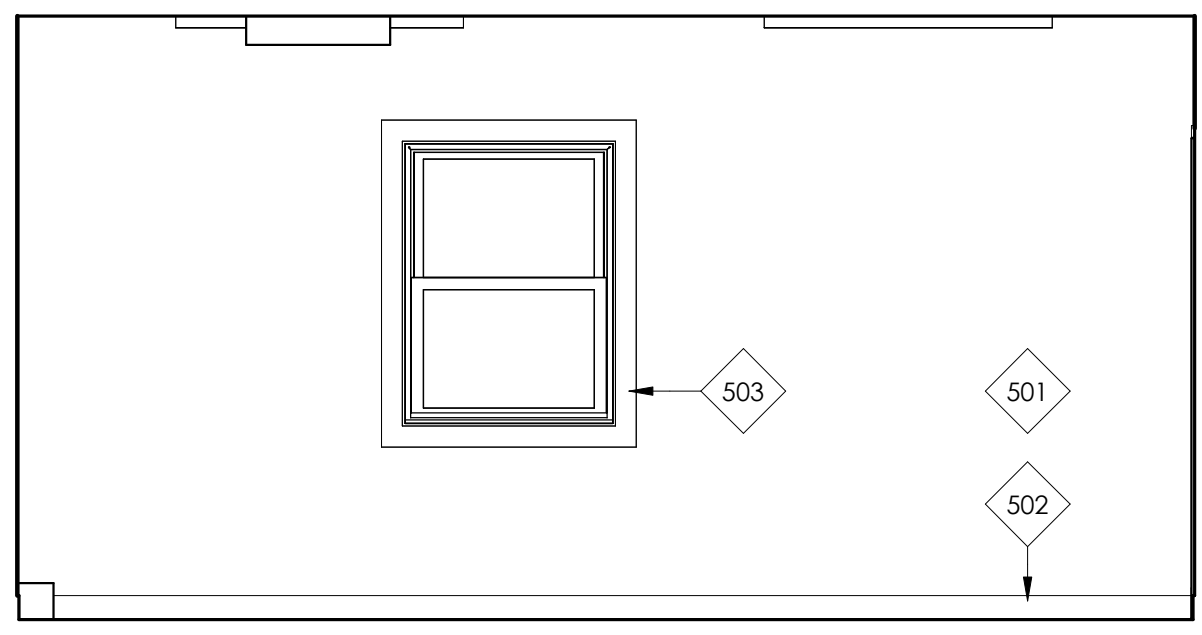


③ Common Room  
 3/8" = 1'-0"

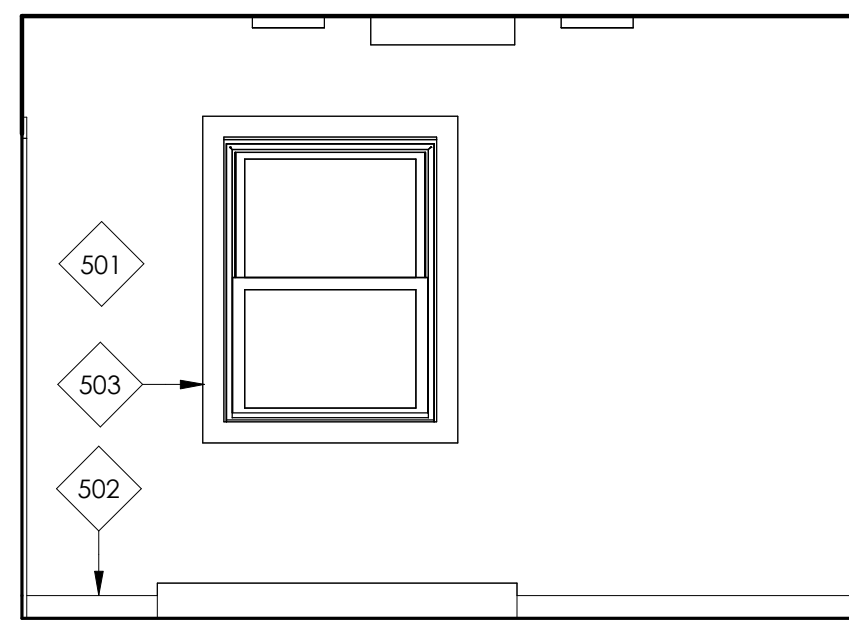
Interior Elevation Key Notes	
501	5/8" Gyp bd, ptd
502	Vinyl base, typ
503	1x4 Maple wood trim, clr finish
504	Hollow metal jamb, pnt
505	FRP Panel see interior elevations for height, see specifications
506	Whiteboard, include blocking for mounting
507	TV, by MDOT. Provide 2x8 blocking for mounting. Coordinate mounting height with MDOT
508	1x4 Wd trim, pnt
509	Mirror, as specified. Provide 2x8 blocking at top and bottom of mirror. Coordinate height w/ approved submittal.
510	Light fixture, see electrical dwgs
512	Tile Base, see finish schedule
513	See typical truss diagram
514	CMU locker base, pnt. Color to match locker color
515	2x8 Blocking, typ
516	3/4"Th x 8'H plywd mounting panel, installed over gyp bd finish, along the length of wall, pnt black
517	15"W x 18"D x 72" (6'-0")H Metal locker, typ
518	Fire extinguisher cabinet, as specified. Fire extinguisher by MDOT



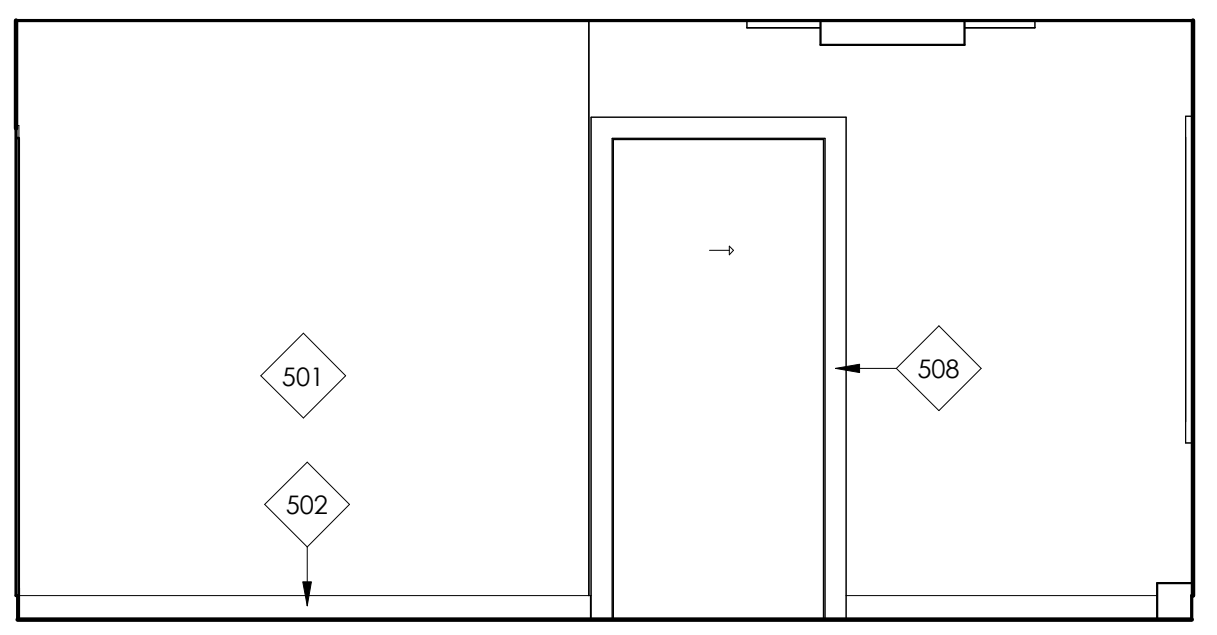
⑧ TCL 04  
 3/8" = 1'-0"



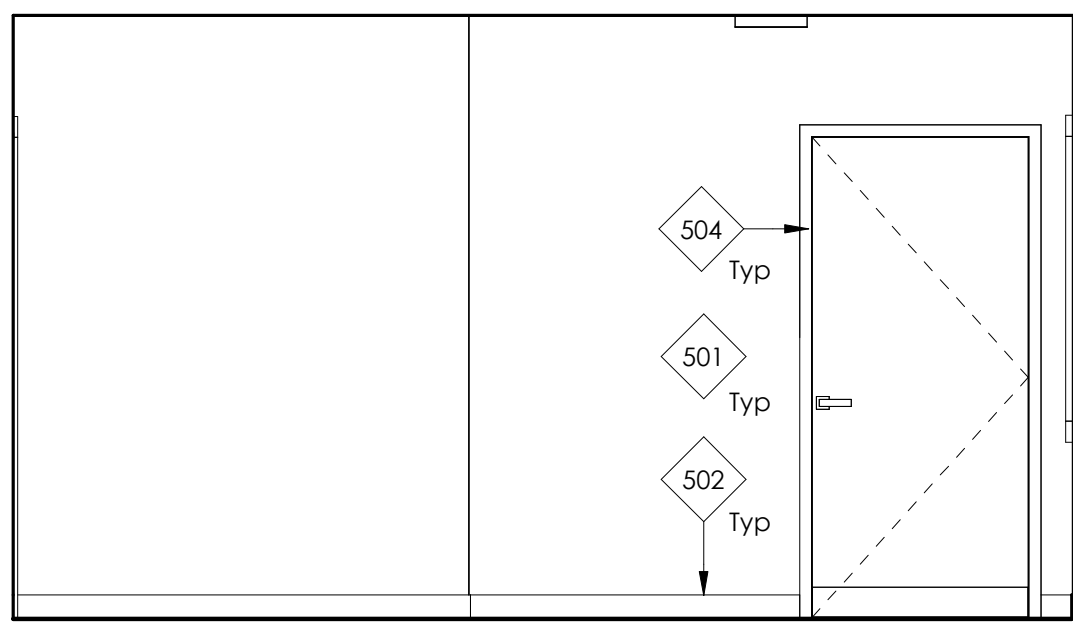
⑦ TCL 03  
 3/8" = 1'-0"



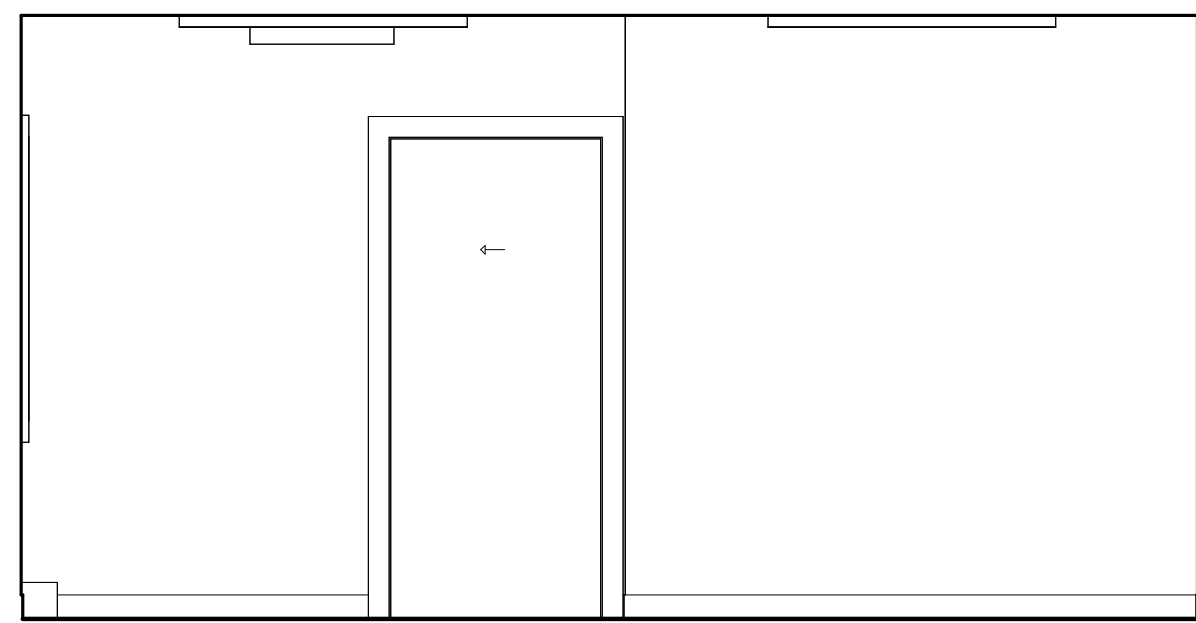
⑥ TCL 02  
 3/8" = 1'-0"



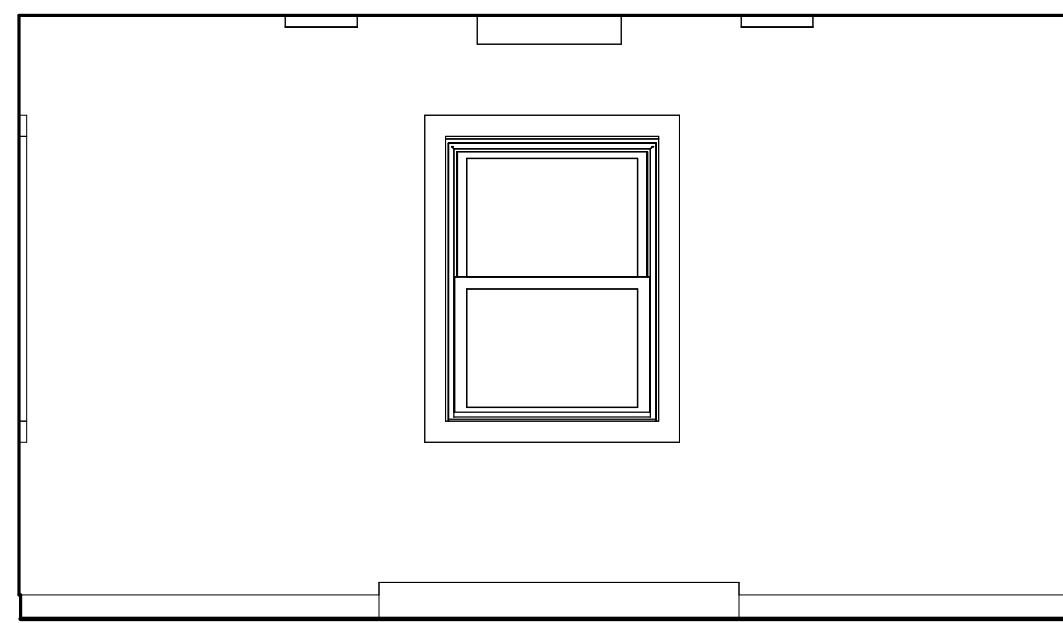
⑤ TCL 01  
 3/8" = 1'-0"



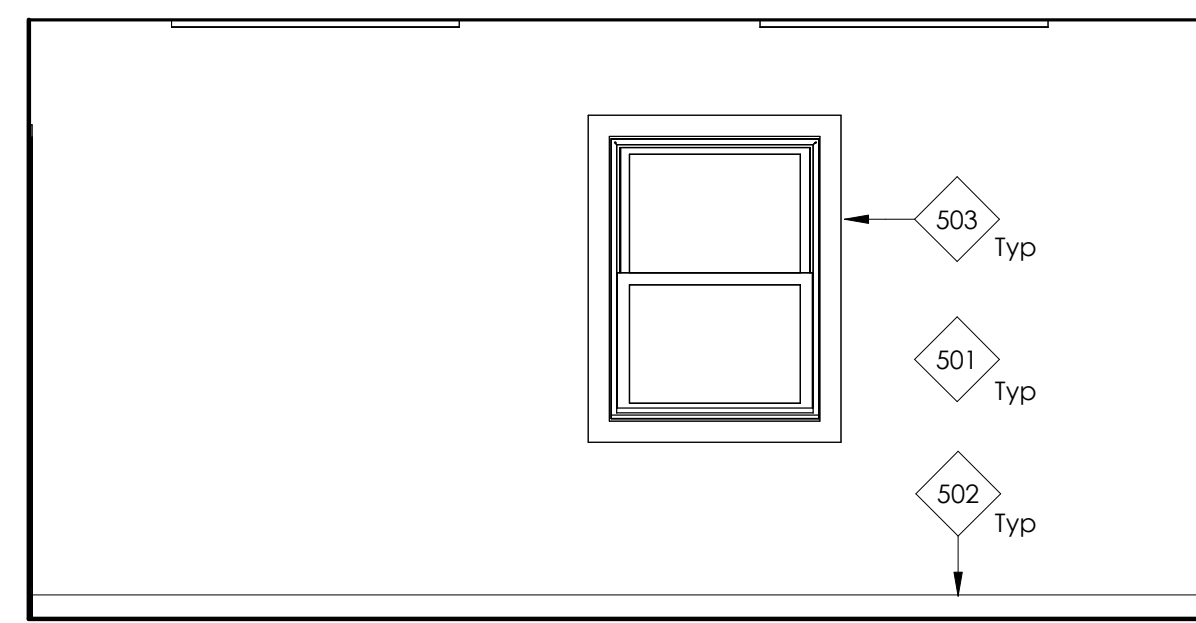
8 TCS 04  
3/8" = 1'-0"



7 TCS 03  
3/8" = 1'-0"

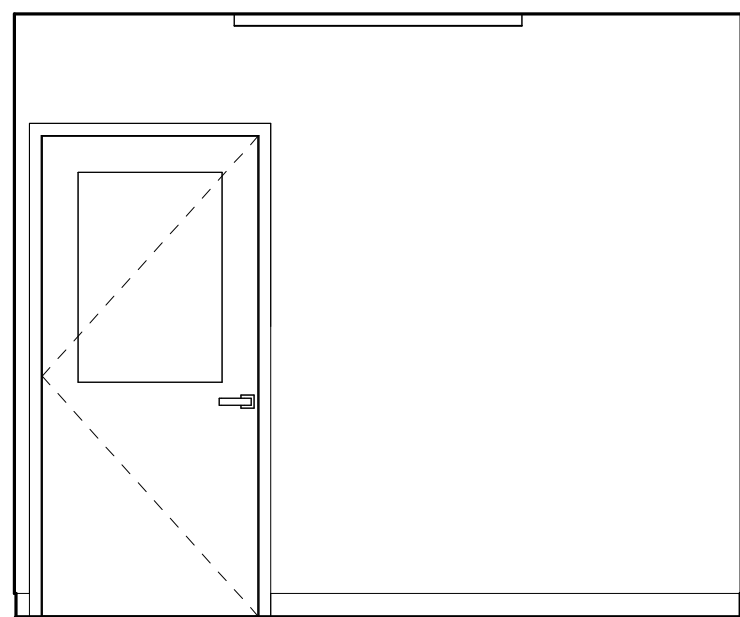


6 TCS 02  
3/8" = 1'-0"

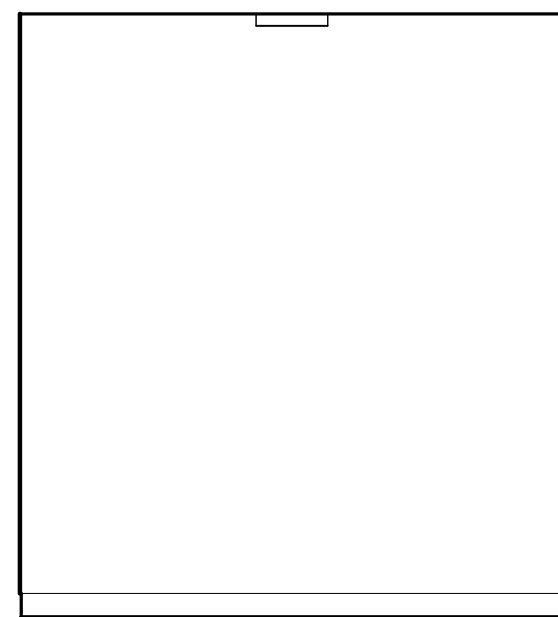


5 TCS 01  
3/8" = 1'-0"

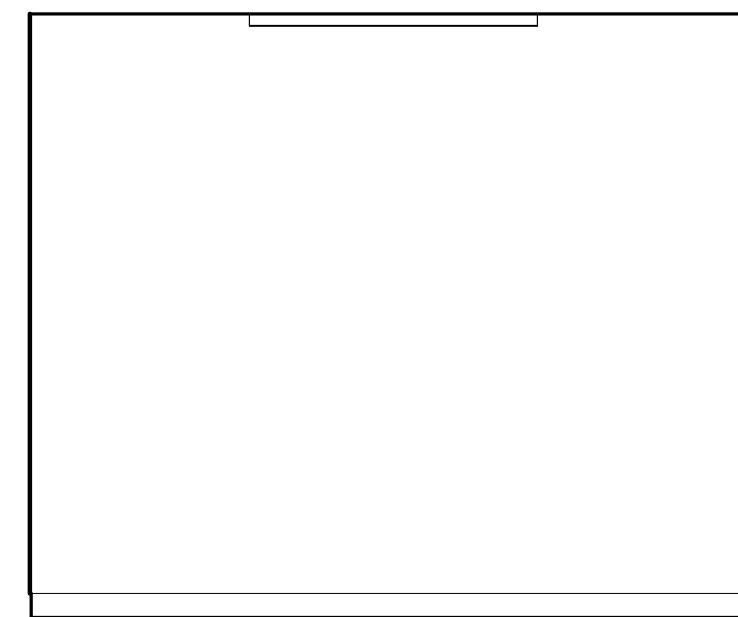
Interior Elevation Key Notes	
501	5/8" Gyp bd, ptd
502	Vinyl base, typ
503	1x4 Maple wood trim, clr finish
504	Hollow metal jamb, pnt
505	FRP Panel see interior elevations for height, see specifications
506	Whiteboard, include blocking for mounting
507	TV, by MDOT. Provide 2x8 blocking for mounting. Coordinate mounting height with MDOT
508	1x4 Wd trim, pnt
509	Mirror, as specified. Provide 2x8 blocking at top and bottom of mirror. Coordinate height w/ approved submittal.
510	Light fixture, see electrical dwgs
512	Tile Base, see finish schedule
513	See typical truss diagram
514	CMU locker base, pnt. Color to match locker color
515	2x8 Blocking, typ
516	3/4"Th x 8'H plywd mounting panel, installed over gyp bd finish, along the length of wall, pnt black
517	15"W x 18"D x 72" (6'-0")H Metal locker, typ
518	Fire extinguisher cabinet, as specified. Fire extinguisher by MDOT



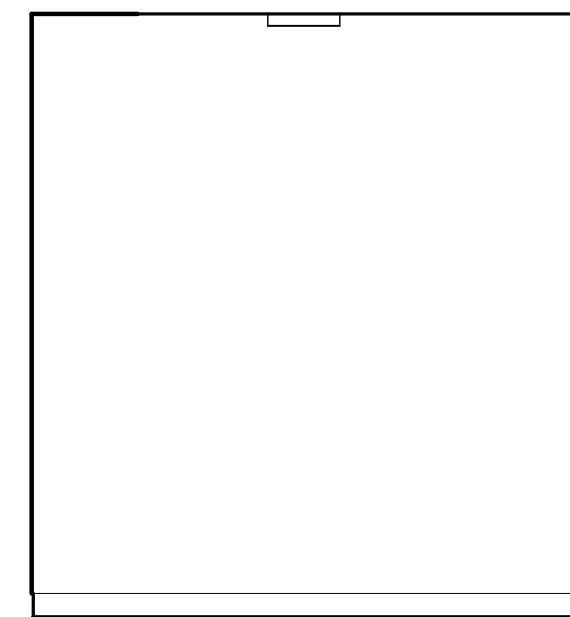
12 Training Room  
3/8" = 1'-0"



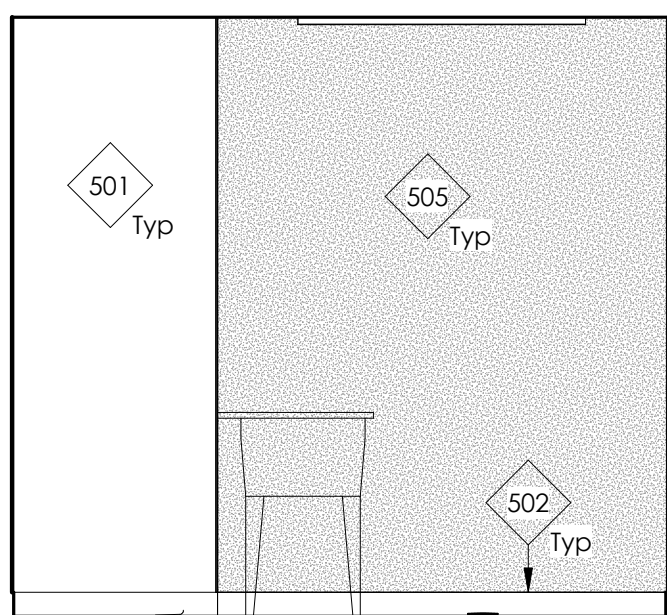
11 Training Room  
3/8" = 1'-0"



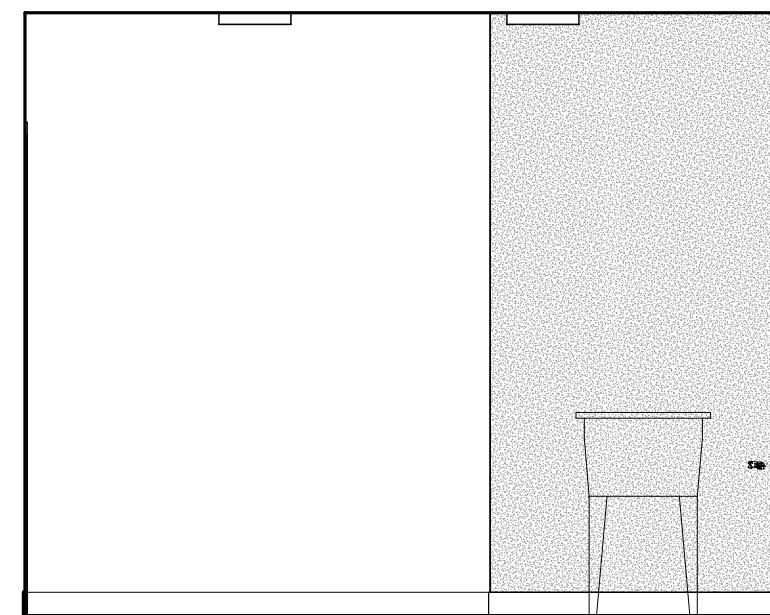
10 Training Room  
3/8" = 1'-0"



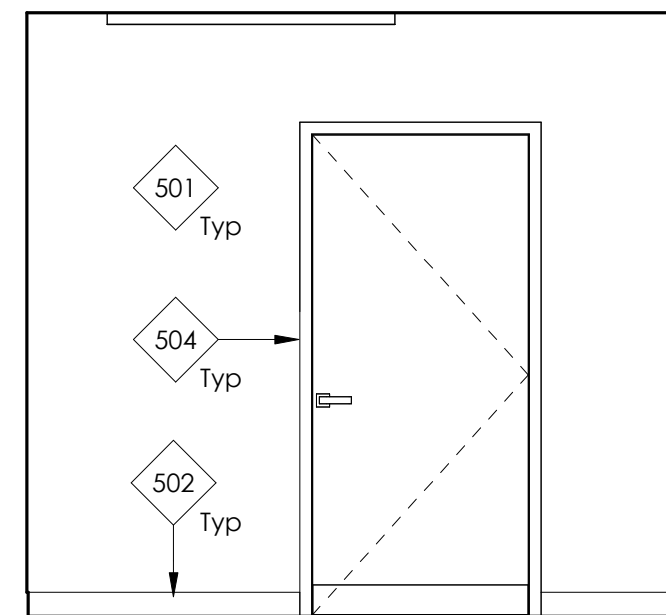
9 Training Room  
3/8" = 1'-0"



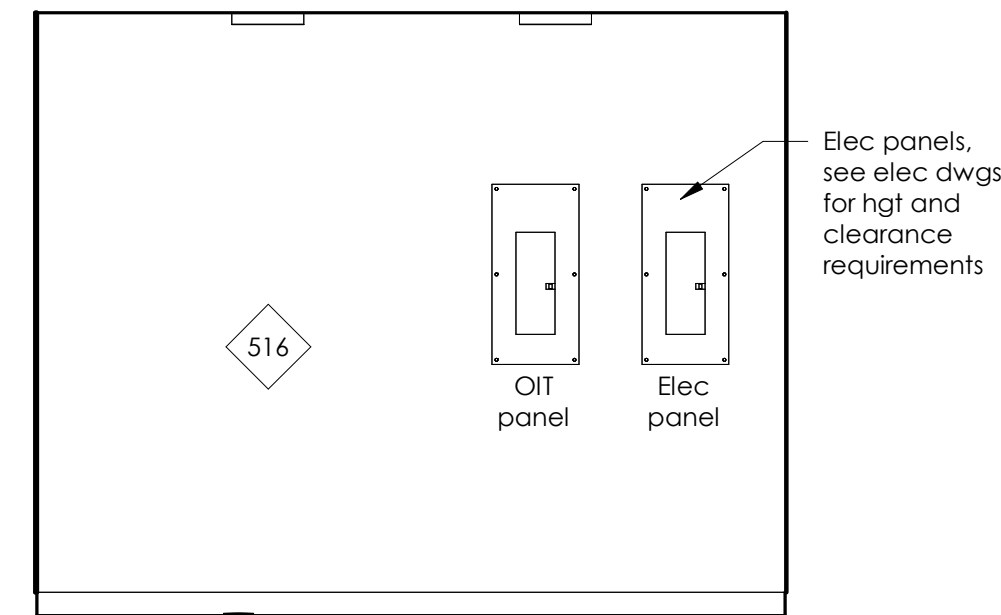
16 Mech/Utility  
3/8" = 1'-0"



15 Mech/Utility  
3/8" = 1'-0"



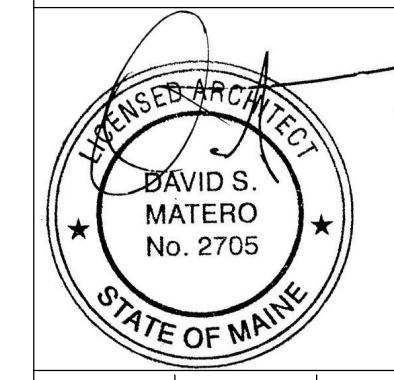
14 Mech/Utility  
3/8" = 1'-0"



13 Mech/Utility  
3/8" = 1'-0"

STATE OF MAINE DOT  
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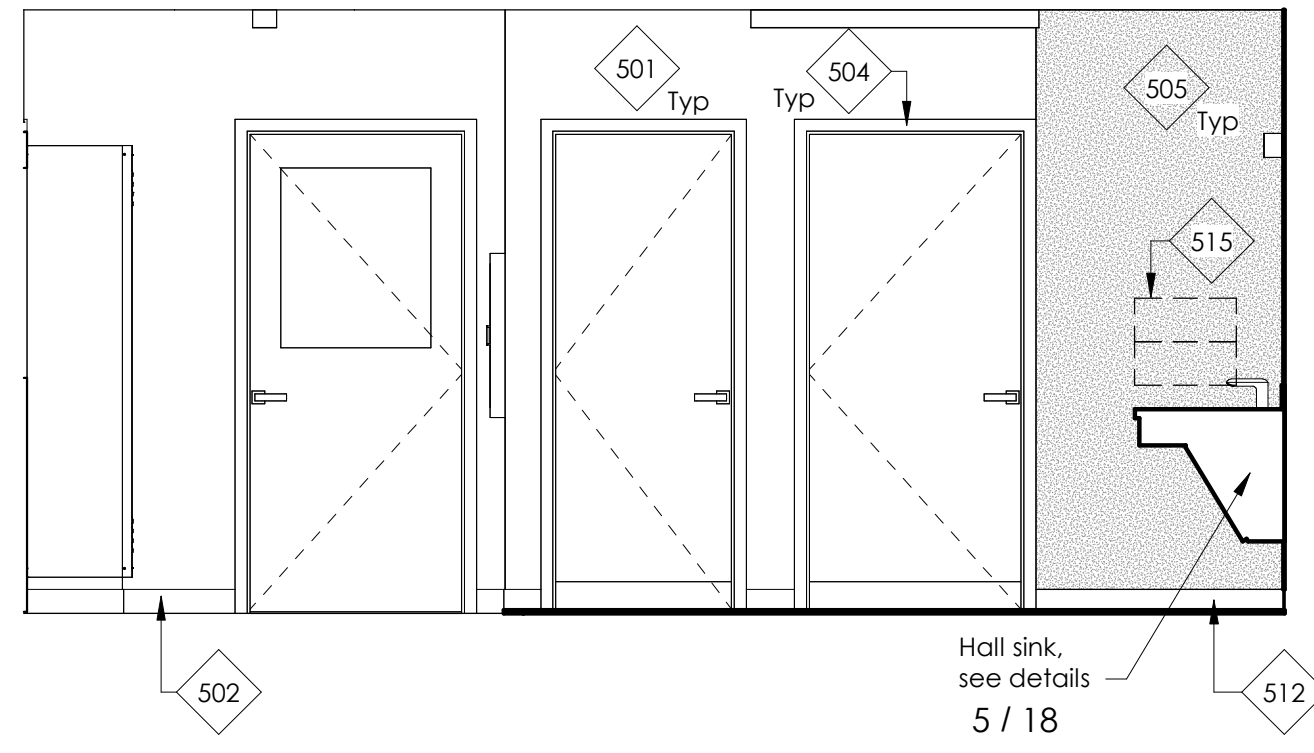
FOR BID	BY	DATE
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CREW QUARTERS  
WALDOBORO, MAINE  
INTERIOR ELEVATIONS 2

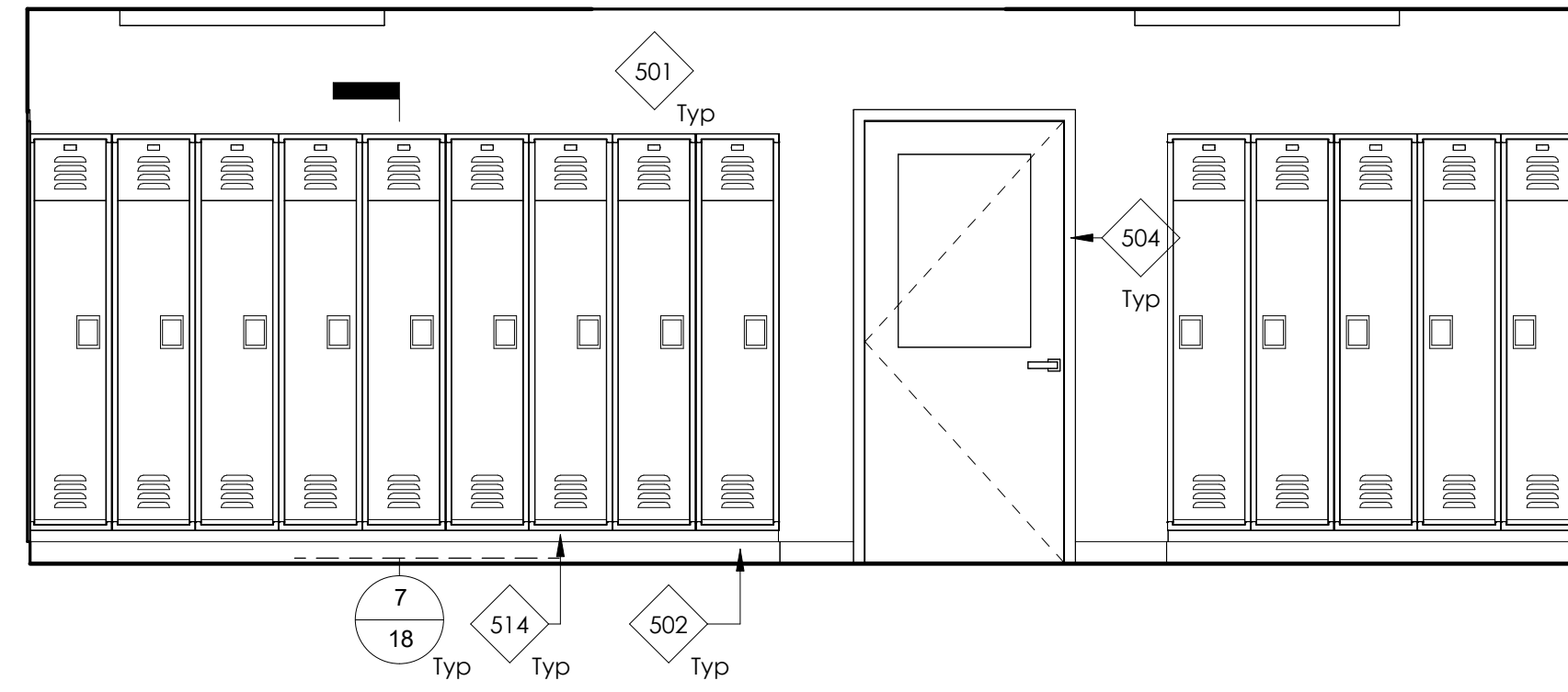
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Interior Elevation Key Notes

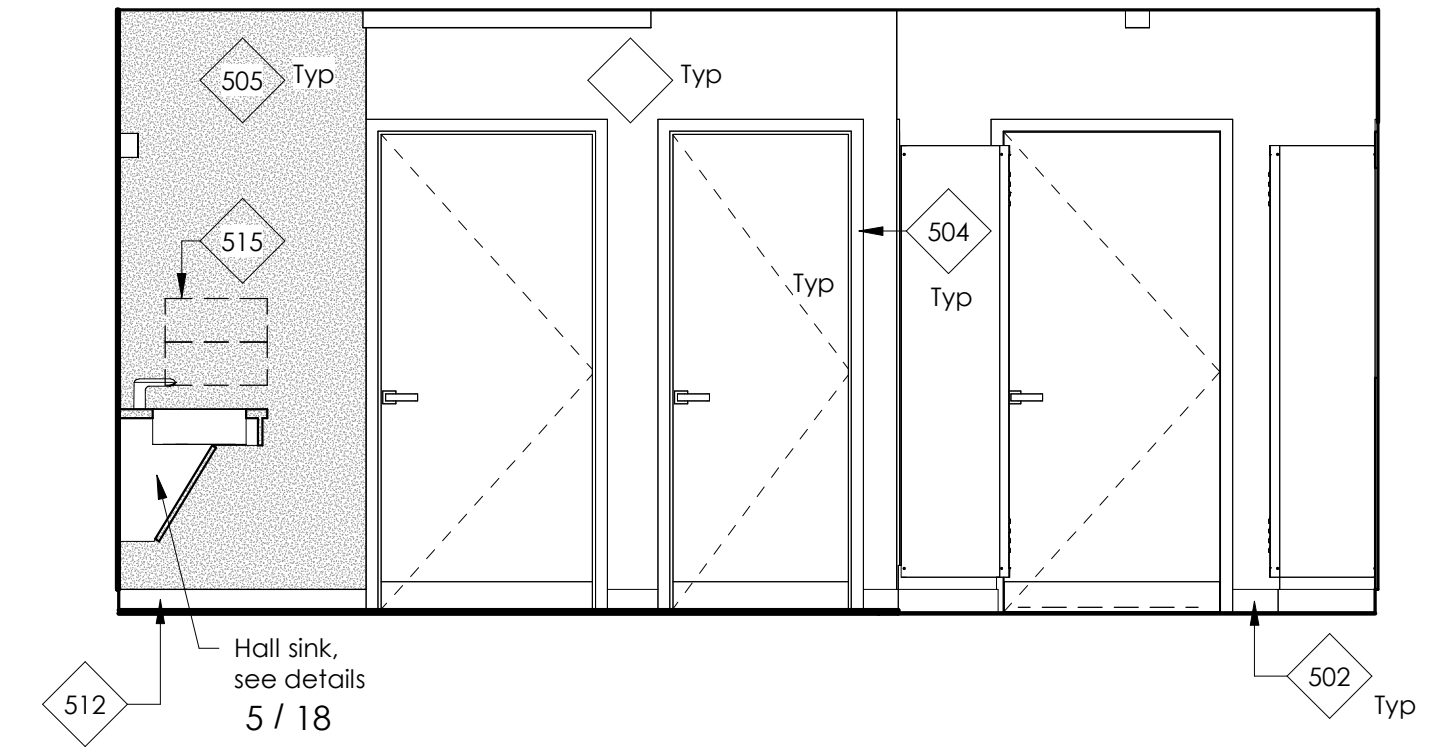
501	5/8" Gyp bd, ptd
502	Vinyl base, typ
503	1x4 Maple wood trim, clr finish
504	Hollow metal jamb, pnt
505	FRP Panel see interior elevations for height, see specifications
506	Whiteboard, include blocking for mounting
507	TV, by MDOT. Provide 2x8 blocking for mounting. Coordinate mounting height with MDOT
508	1x4 Wd trim, pnt
509	Mirror, as specified. Provide 2x8 blocking at top and bottom of mirror. Coordinate height w/ approved submittal.
510	Light fixture, see electrical dwgs
512	Tile Base, see finish schedule
513	See typical truss diagram
514	CMU locker base, pnt. Color to match locker color
515	2x8 Blocking, typ
516	3/4"Th x 8'H plywd mounting panel, installed over gyp bd finish, along the length of wall, pnt black
517	15'W x 18'D x 72" (6'-0")H Metal locker, typ
518	Fire extinguisher cabinet, as specified. Fire extinguisher by MDOT



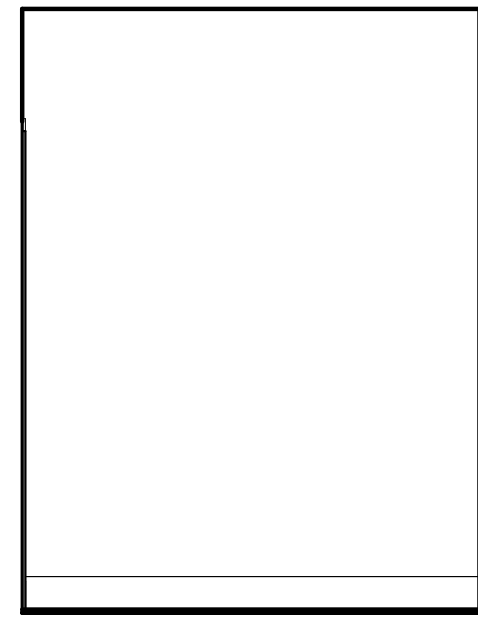
③ Lockers  
3/8" = 1'-0"



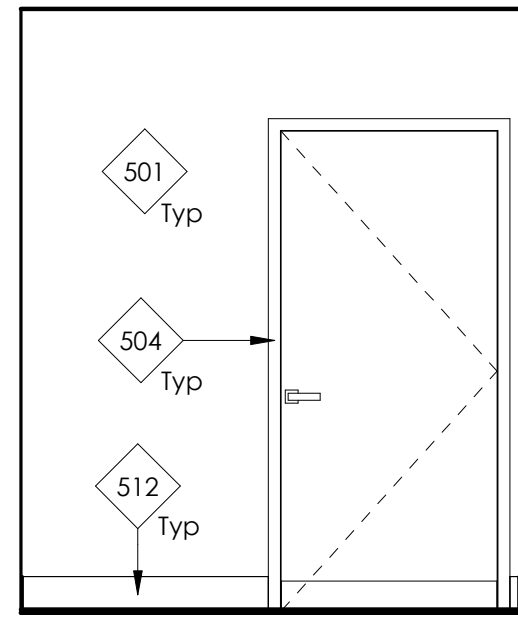
② Lockers  
3/8" = 1'-0"



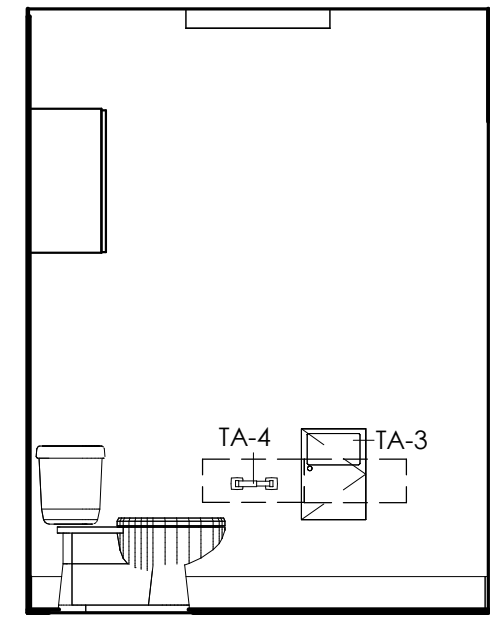
① Lockers  
3/8" = 1'-0"



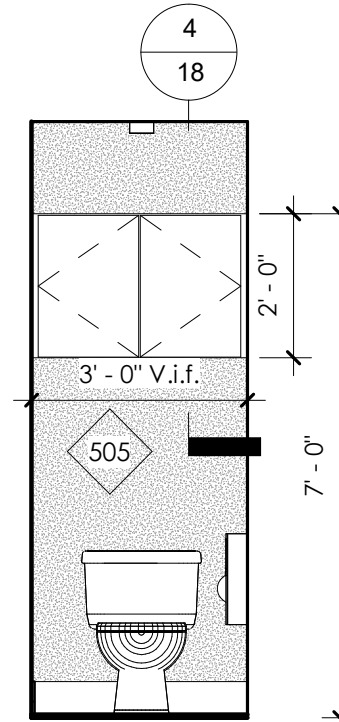
⑩ ADA Toilet  
3/8" = 1'-0"



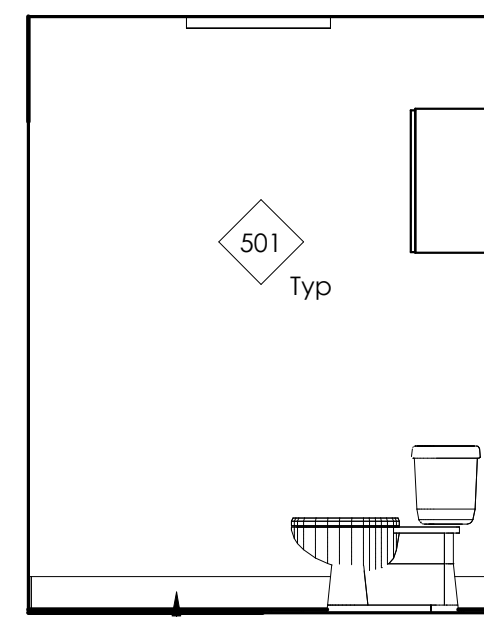
⑨ ADA Toilet  
3/8" = 1'-0"



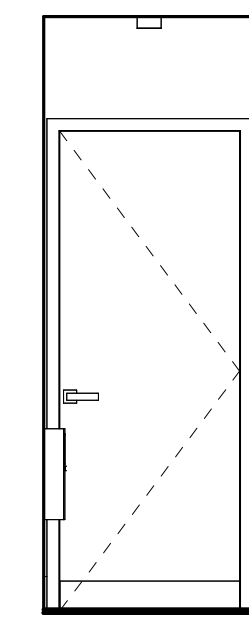
⑧ Toilet  
3/8" = 1'-0"



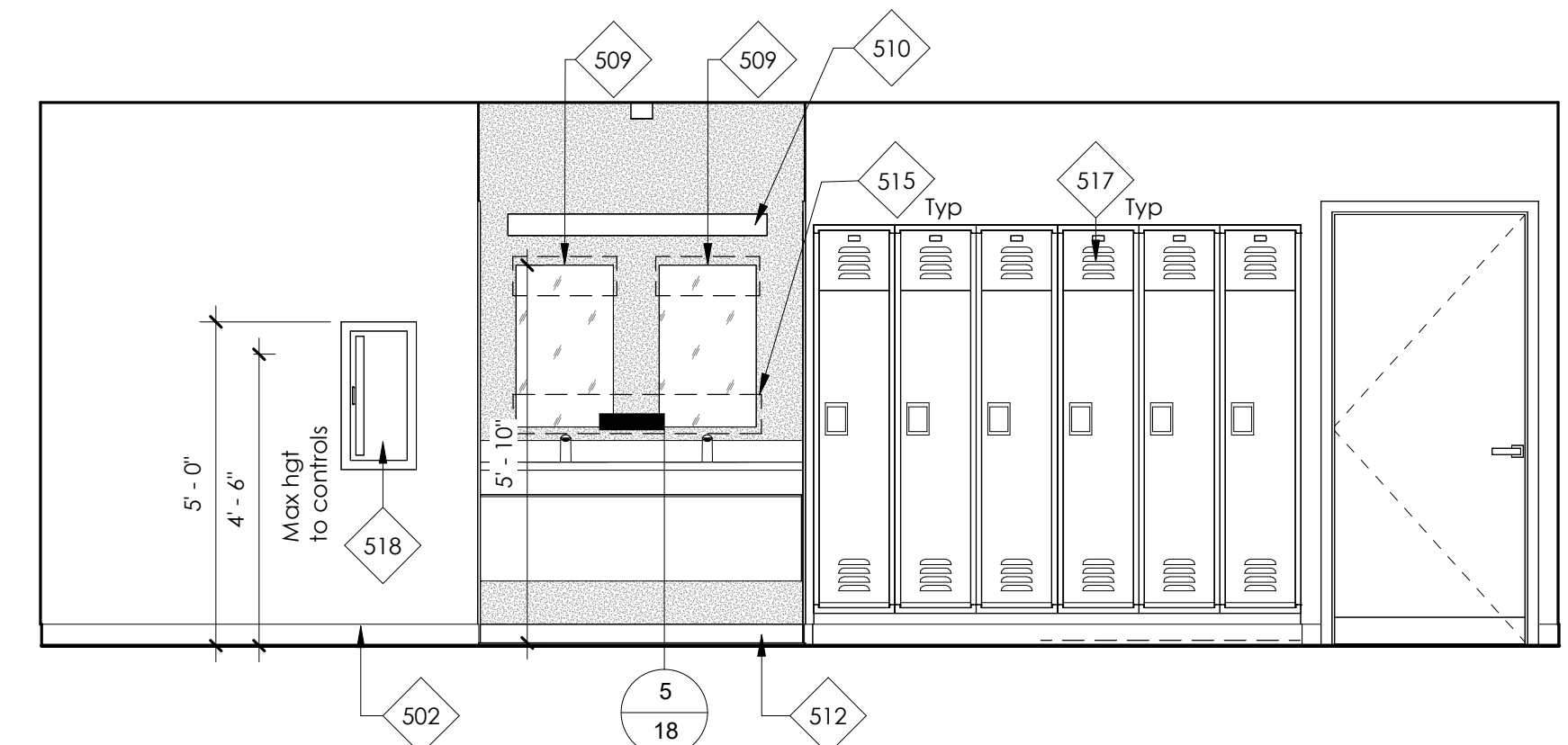
⑦ Toilet  
3/8" = 1'-0"



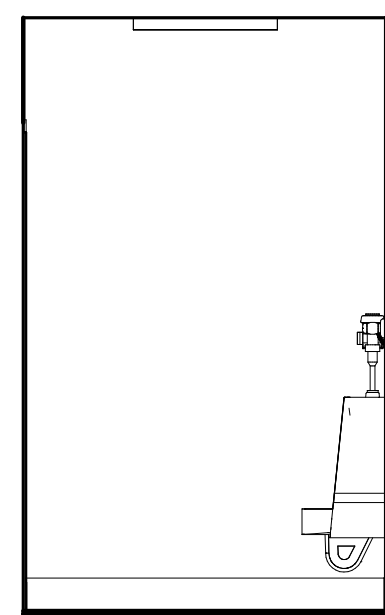
⑥ Toilet  
3/8" = 1'-0"



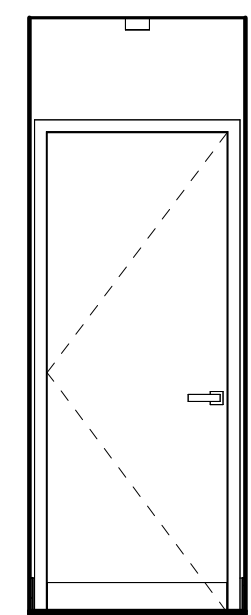
⑤ Toilet  
3/8" = 1'-0"



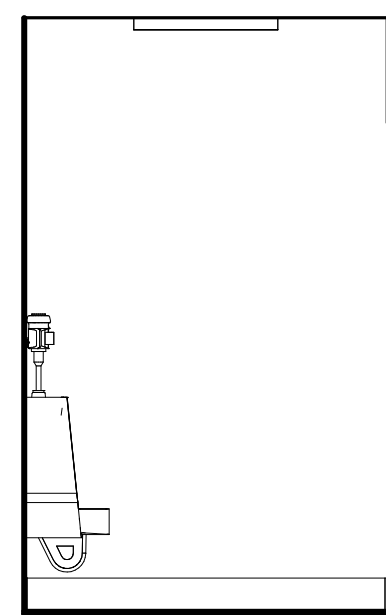
④ Lockers  
3/8" = 1'-0"



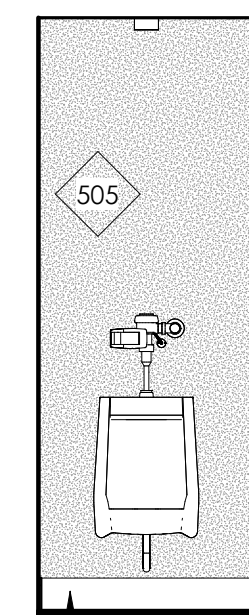
⑳ Urinal  
3/8" = 1'-0"



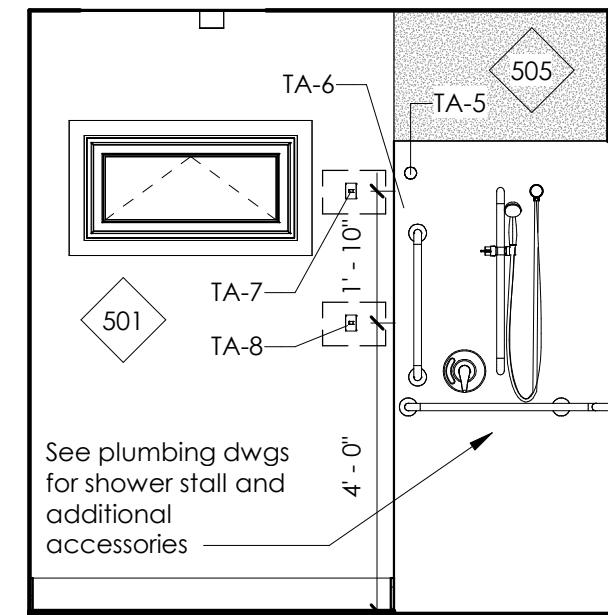
⑲ Urinal  
3/8" = 1'-0"



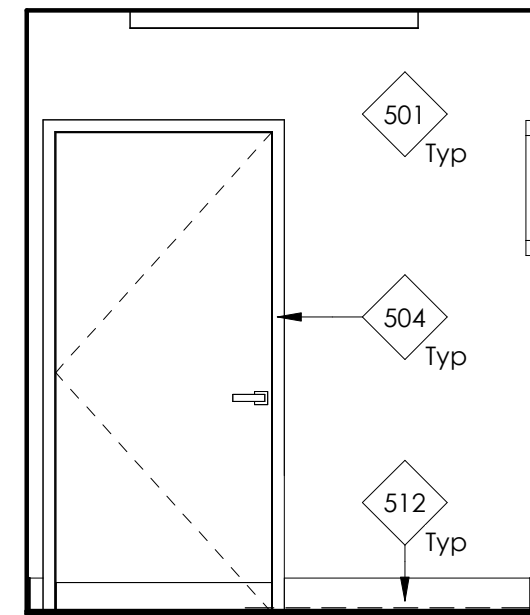
⑱ Urinal  
3/8" = 1'-0"



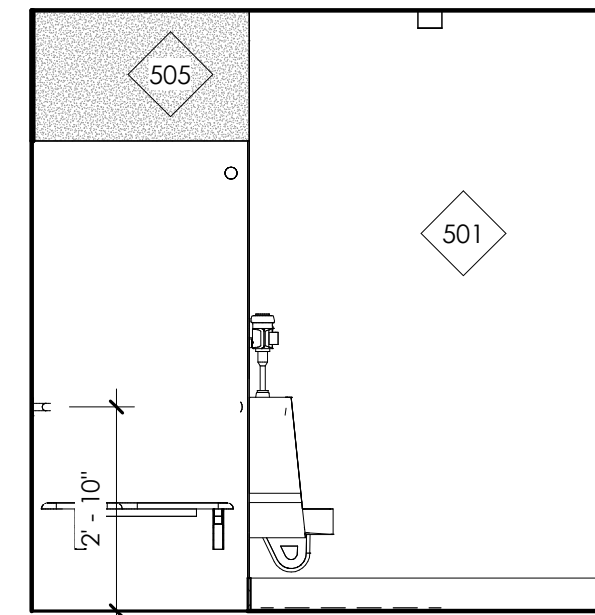
⑰ Urinal  
3/8" = 1'-0"



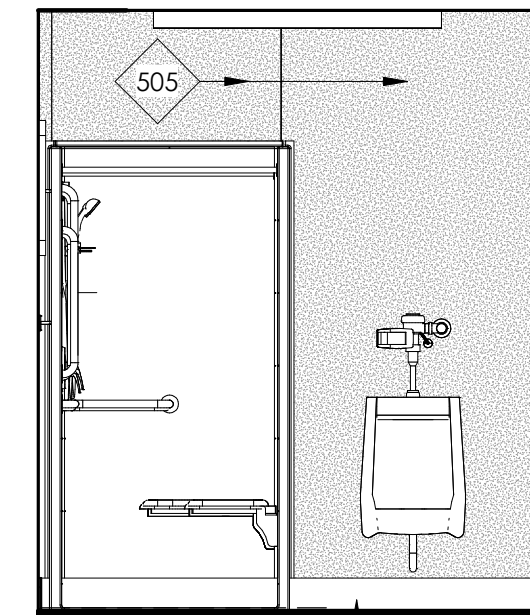
⑮ ADA Shower  
3/8" = 1'-0"



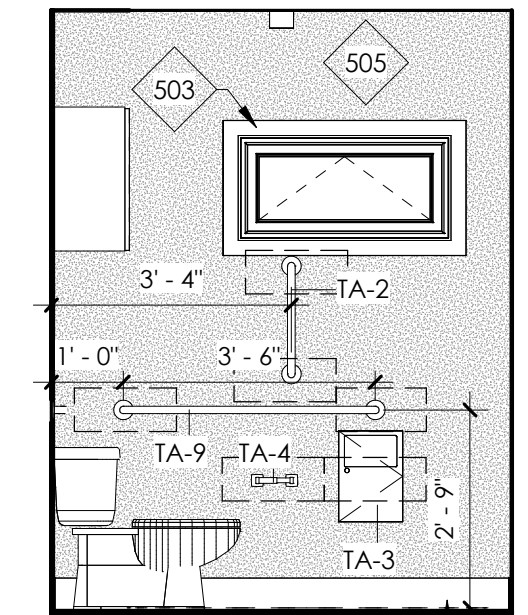
⑮ ADA Shower  
3/8" = 1'-0"



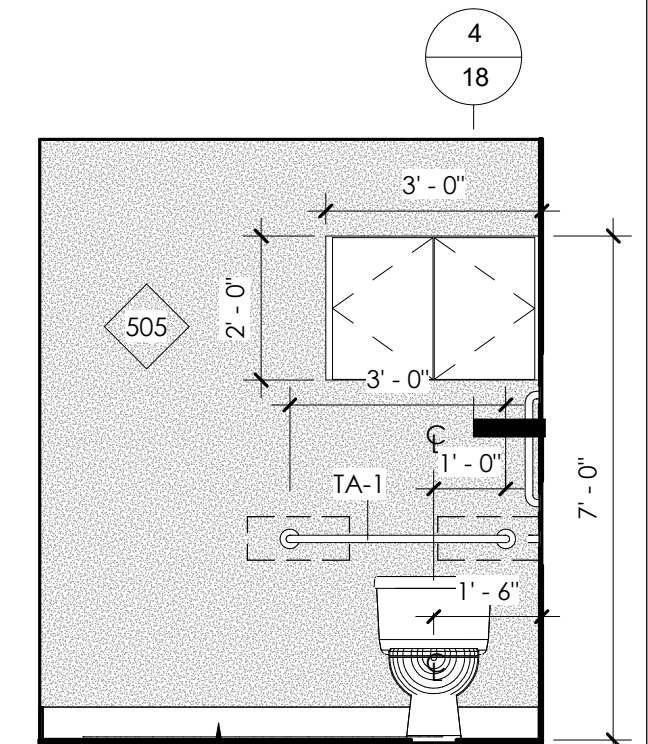
⑮ ADA Shower  
3/8" = 1'-0"



⑬ ADA Shower  
3/8" = 1'-0"



⑫ ADA Toilet  
3/8" = 1'-0"



⑪ ADA Toilet  
3/8" = 1'-0"

CREW QUARTERS  
WALDOBORO, MAINE  
INTERIOR ELEVATIONS 3

SHEET NUMBER

17

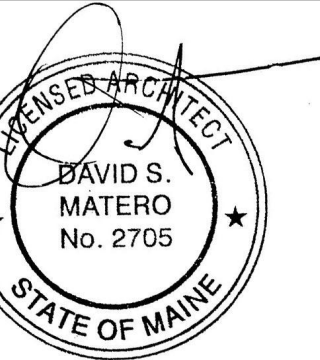
PREPARED FOR:

STATE OF MAINE DOT

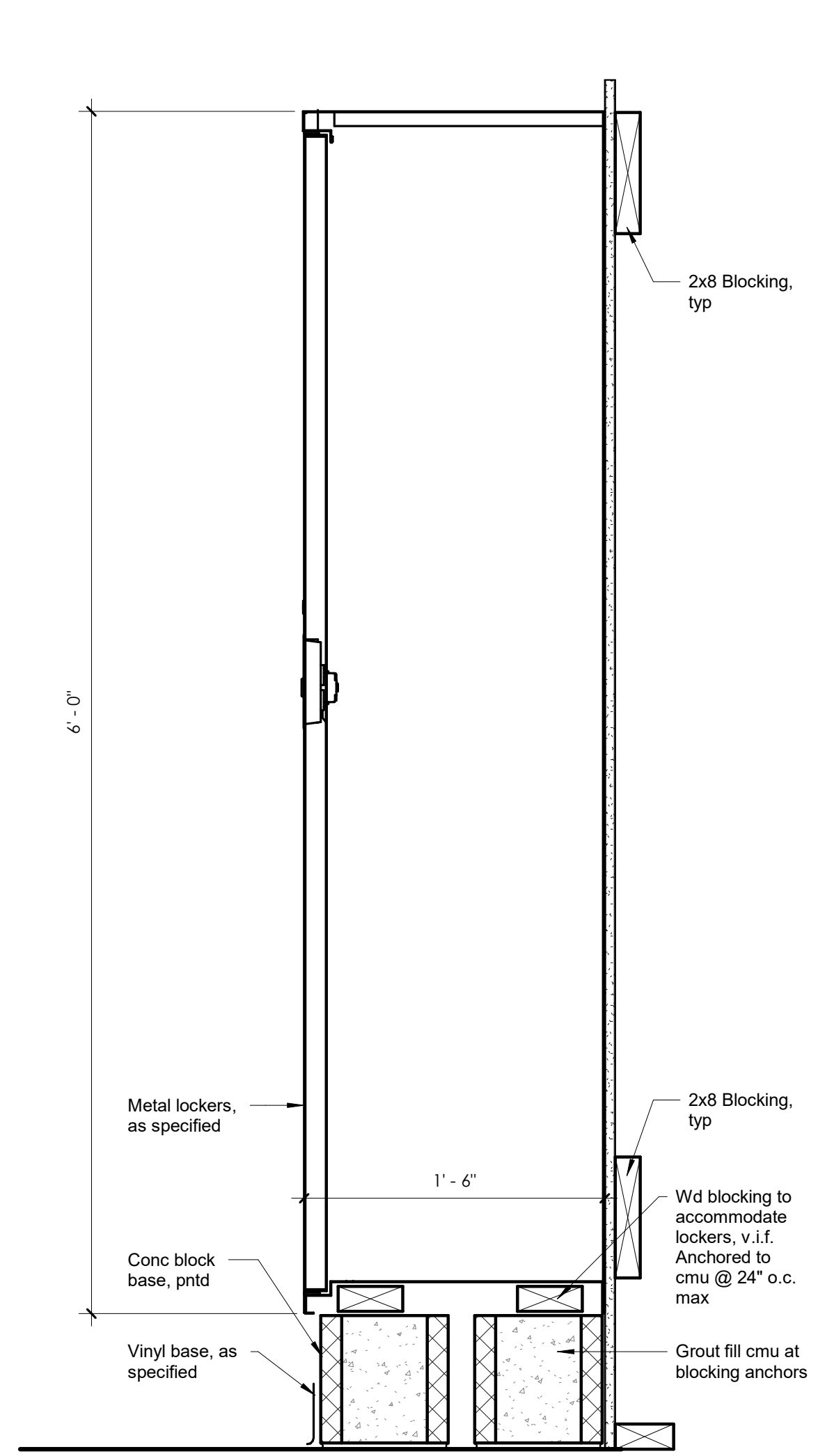
CREW QUARTERS WALDOBORO, MAINE  
WALDOBORO, MAINE  
WIN 028559.00

David Matero  
Architecture

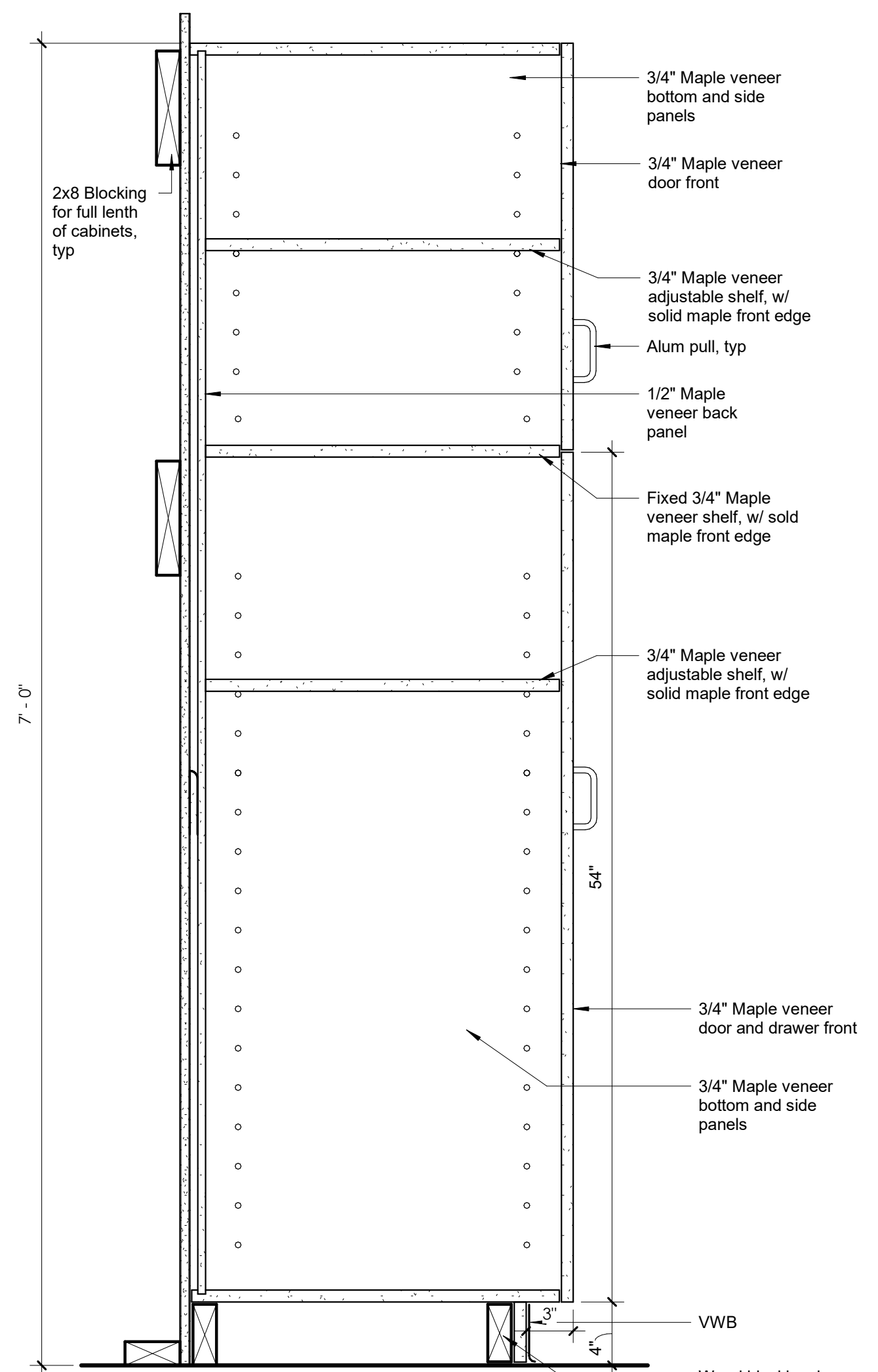
49 Centre Street  
Bath, ME 04530  
207.389.4278  
info@davidmatero.com



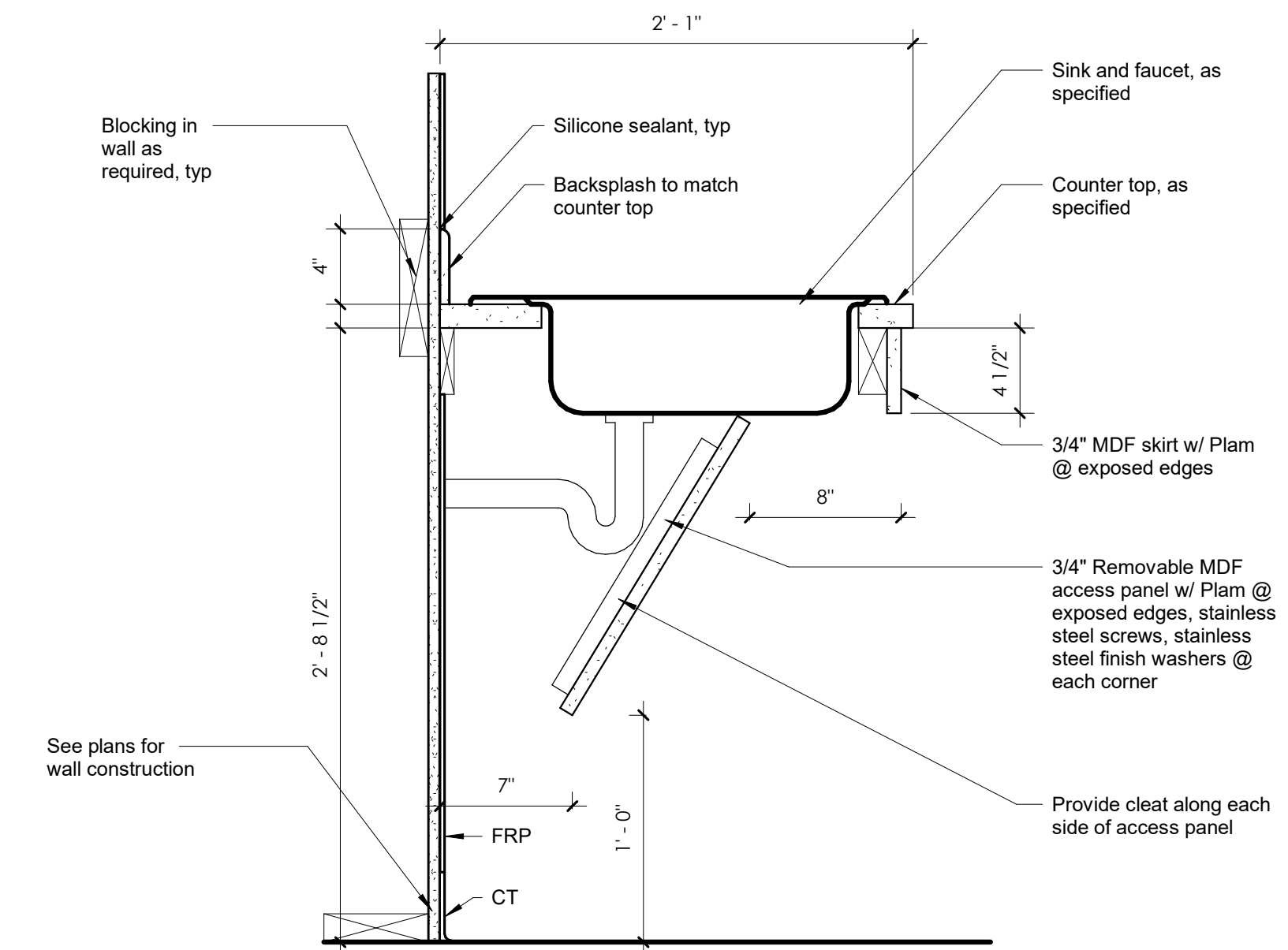
FOR BID	BY	DATE	PE NUMBER	DATE
	DM	OCT. 2025	2705	OCT. 2025



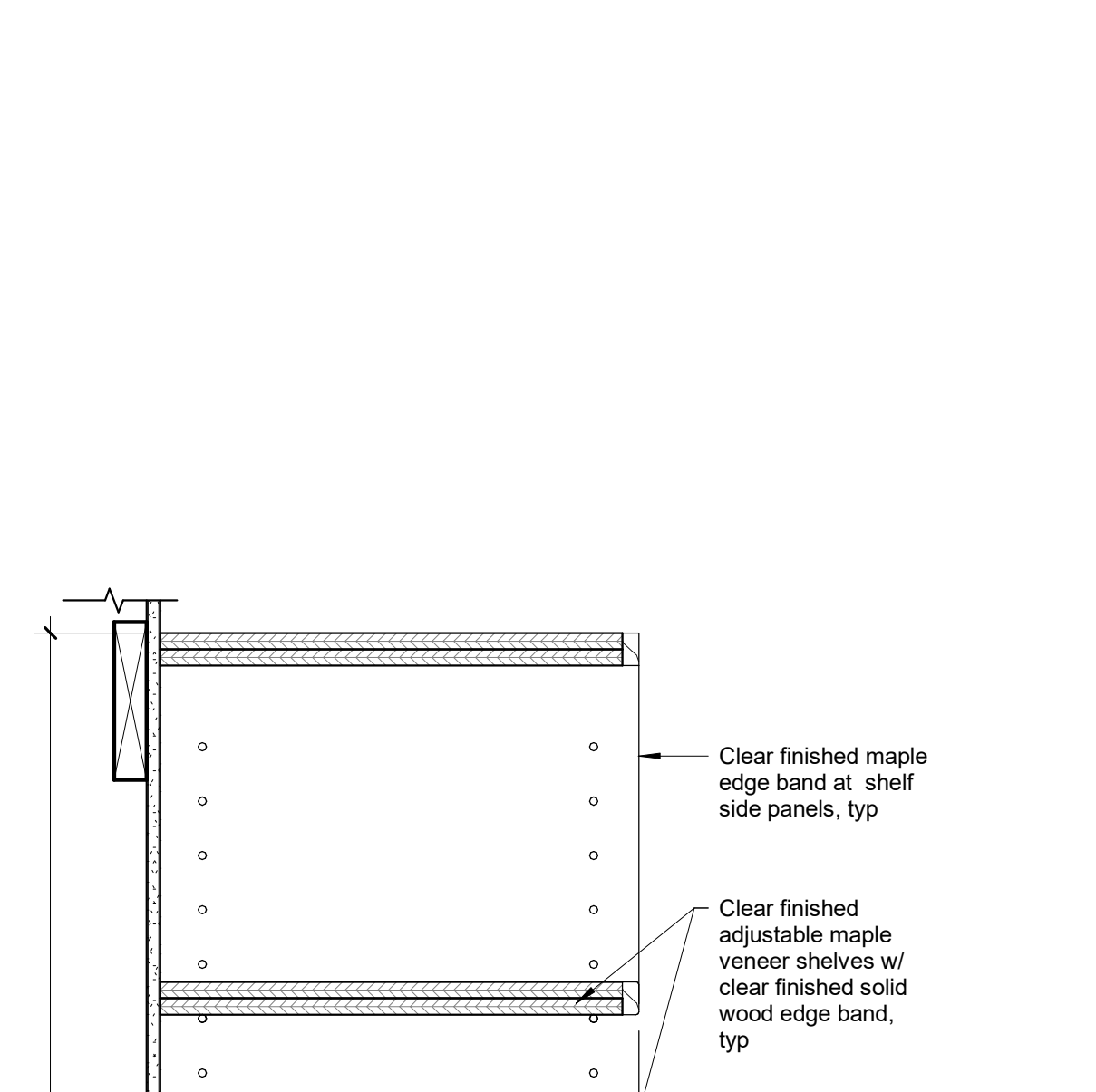
7 Typ Locker Detail  
1 1/2" = 1'-0"



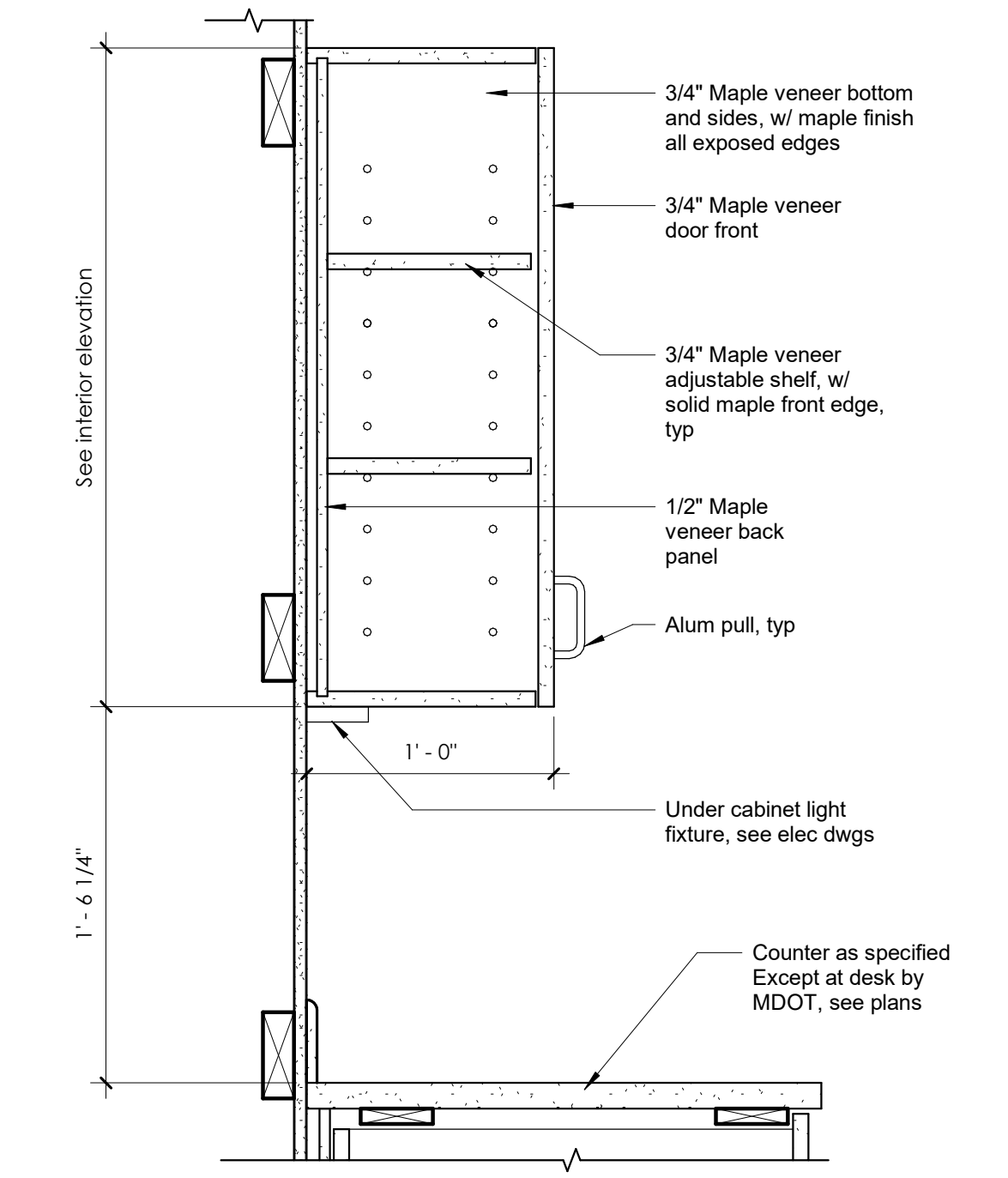
6 Tall Cabinet  
1 1/2" = 1'-0"



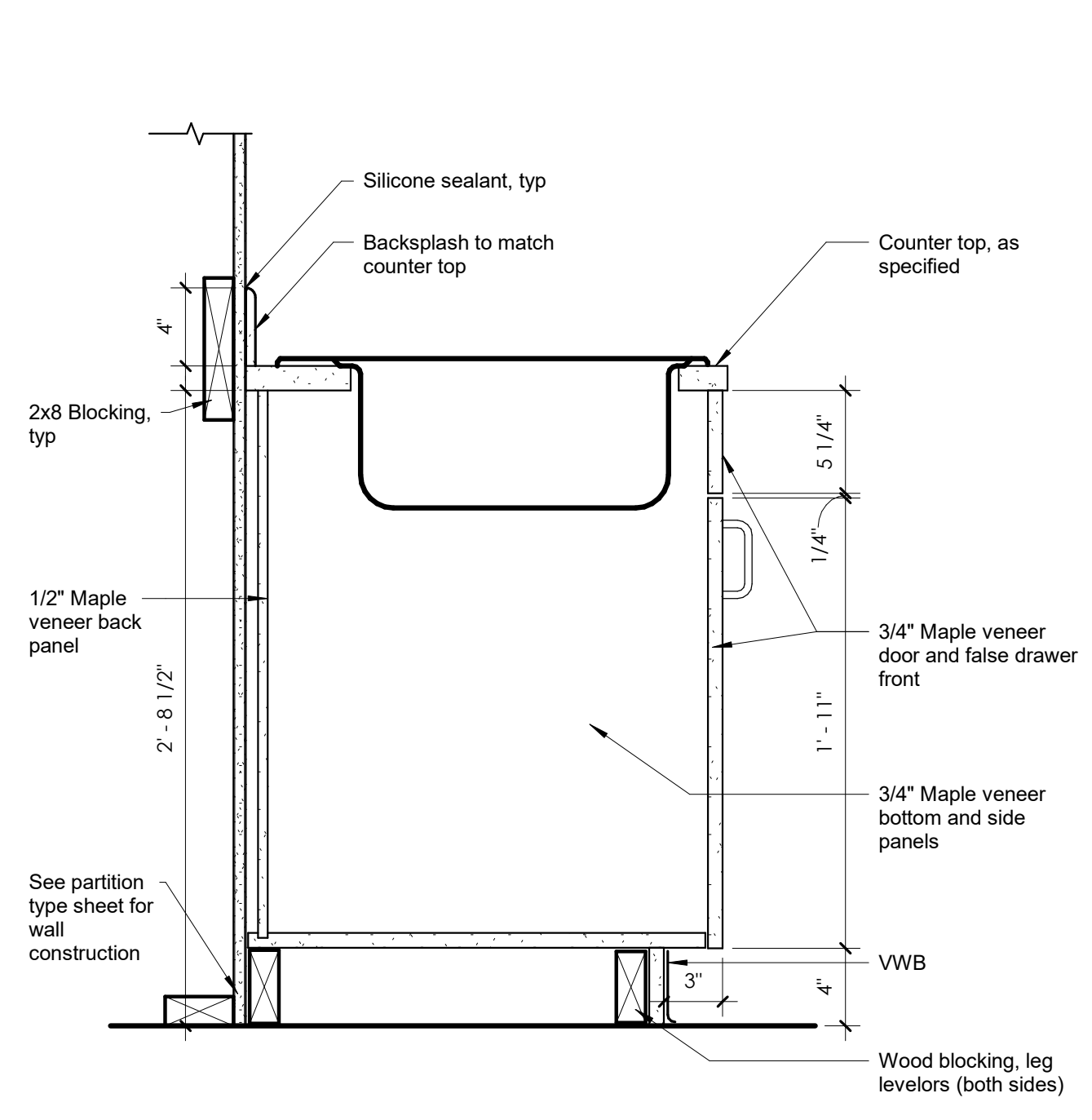
5 Cabinet Detail Hall Sink  
1 1/2" = 1'-0"



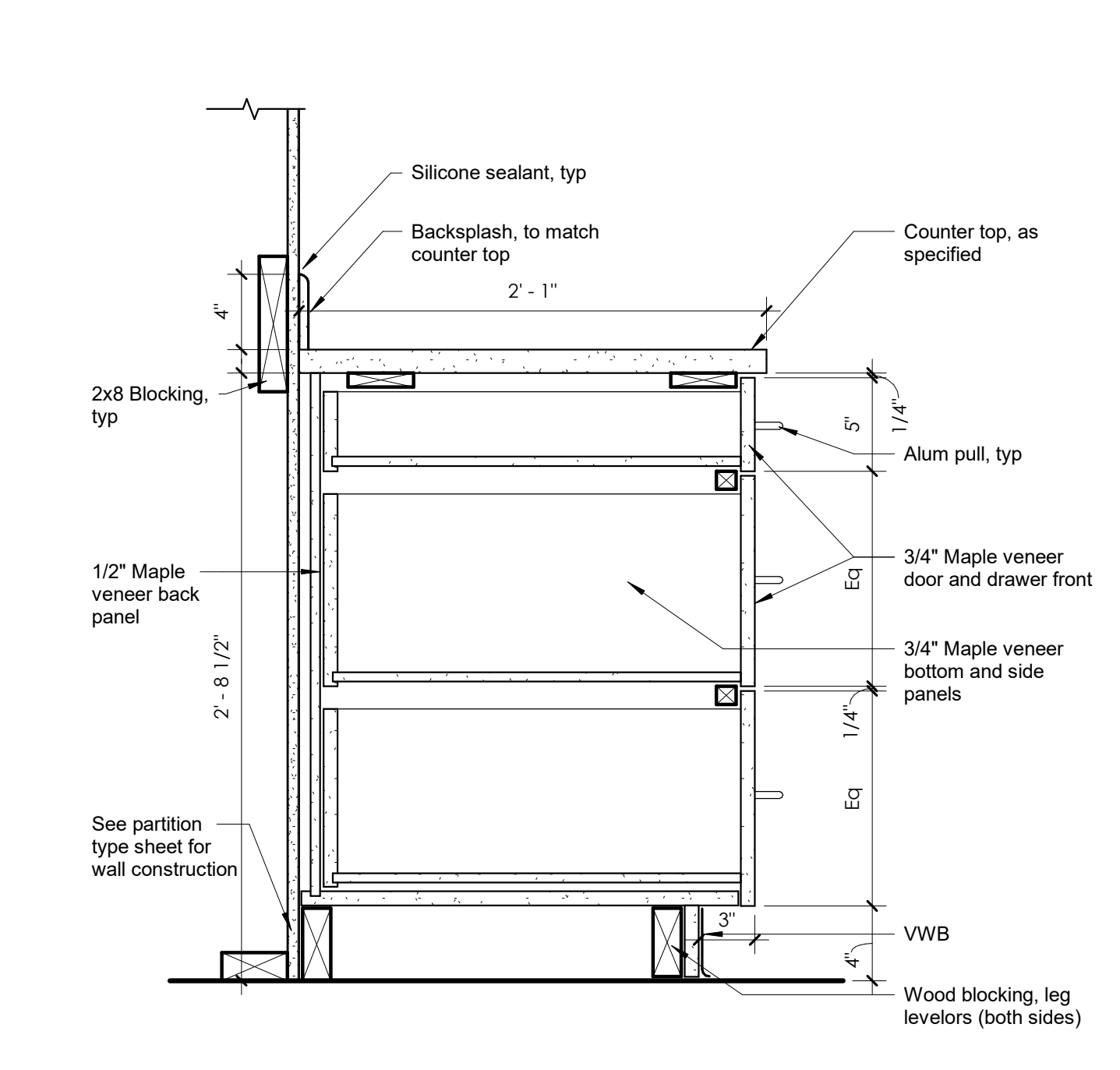
1 Cabinet Details Microwave  
1 1/2" = 1'-0"



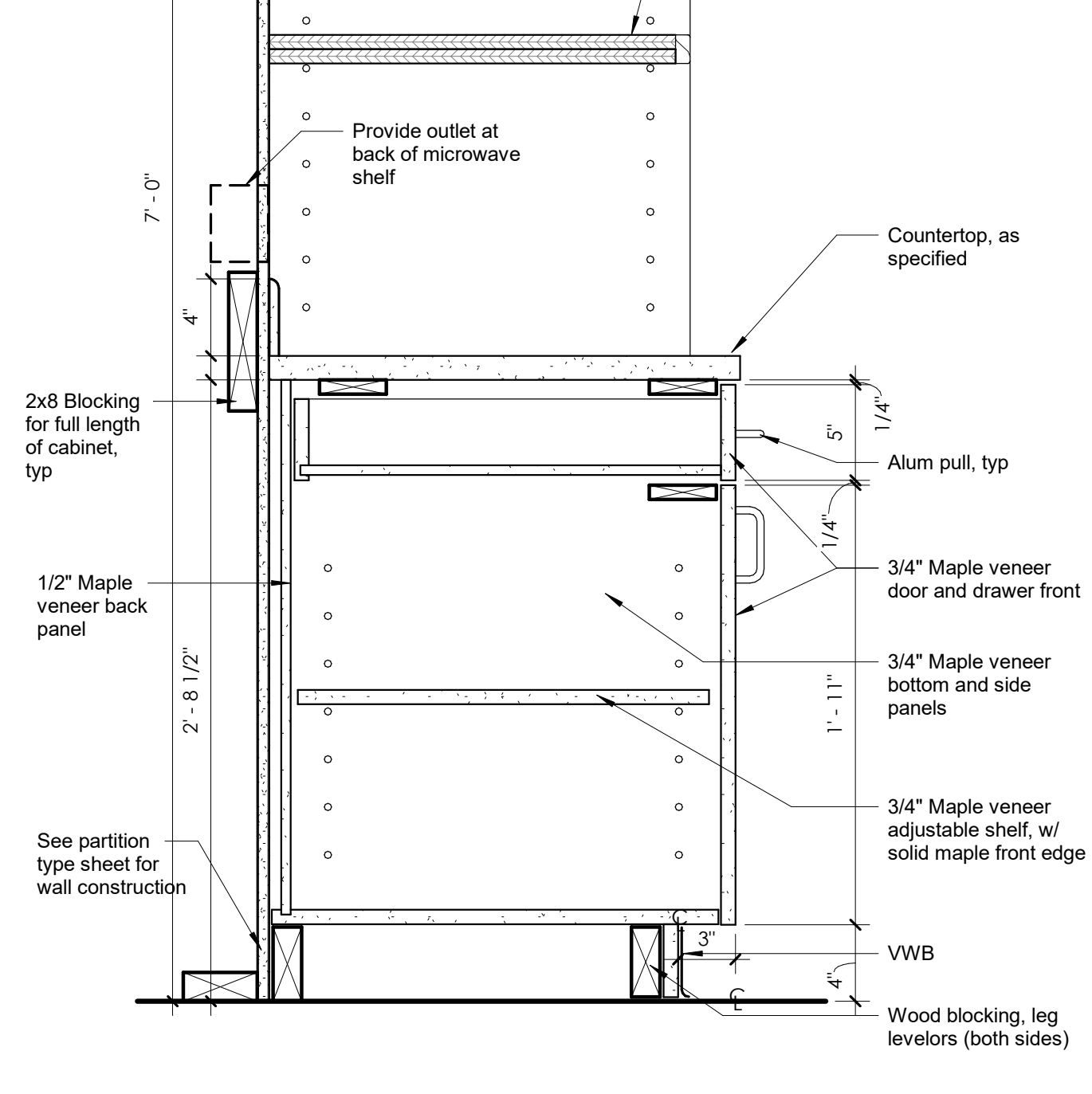
4 Cabinet Details Upper Cabinet w/ Doors  
1 1/2" = 1'-0"



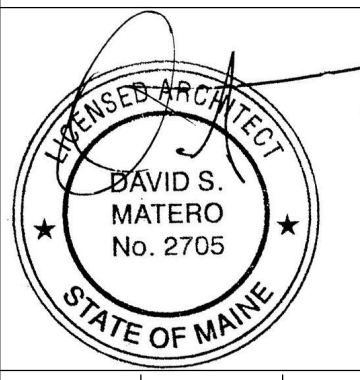
3 Cabinet Details Base @ Sink  
1 1/2" = 1'-0"



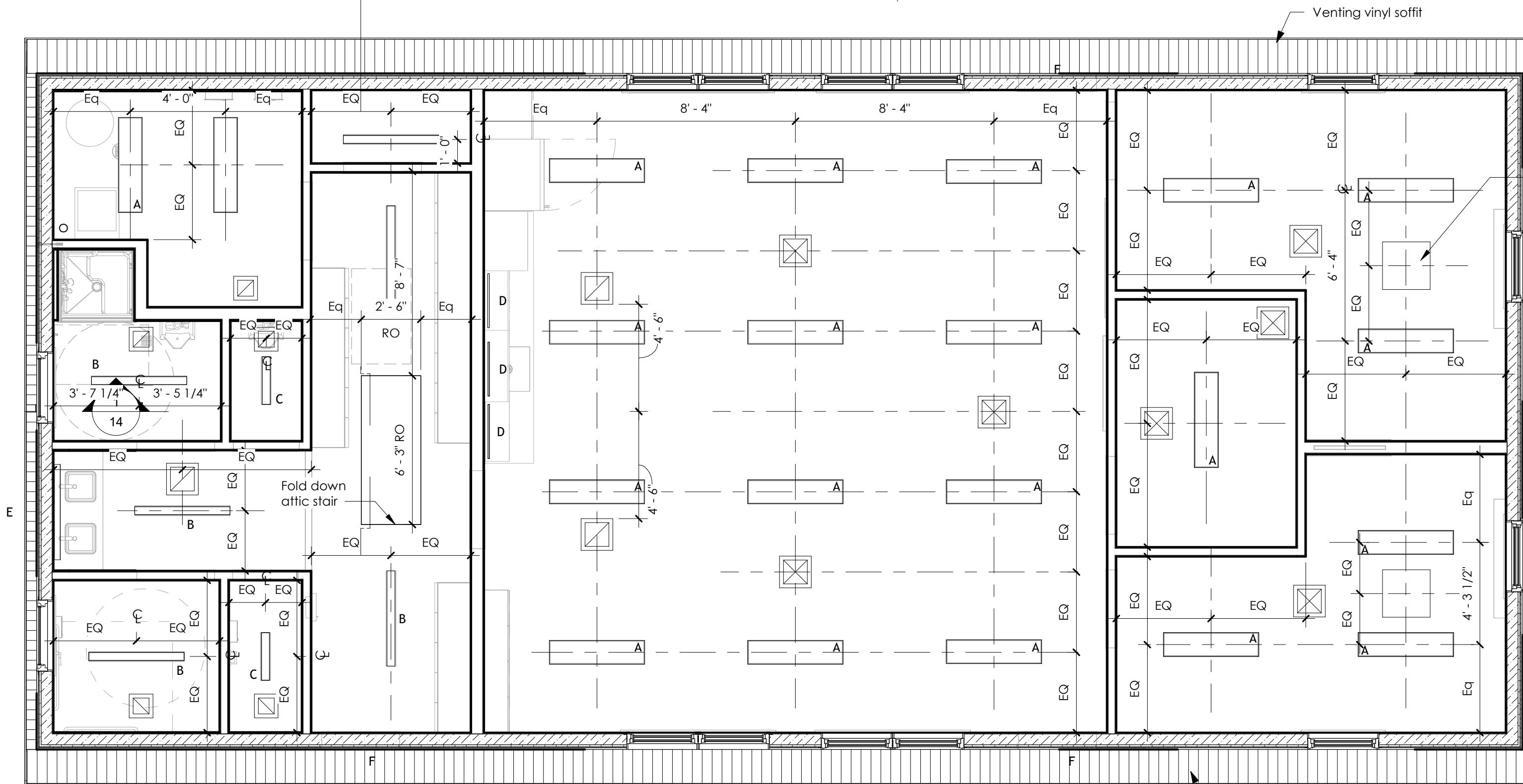
2 Cabinet Details Base @ Drawers  
1 1/2" = 1'-0"



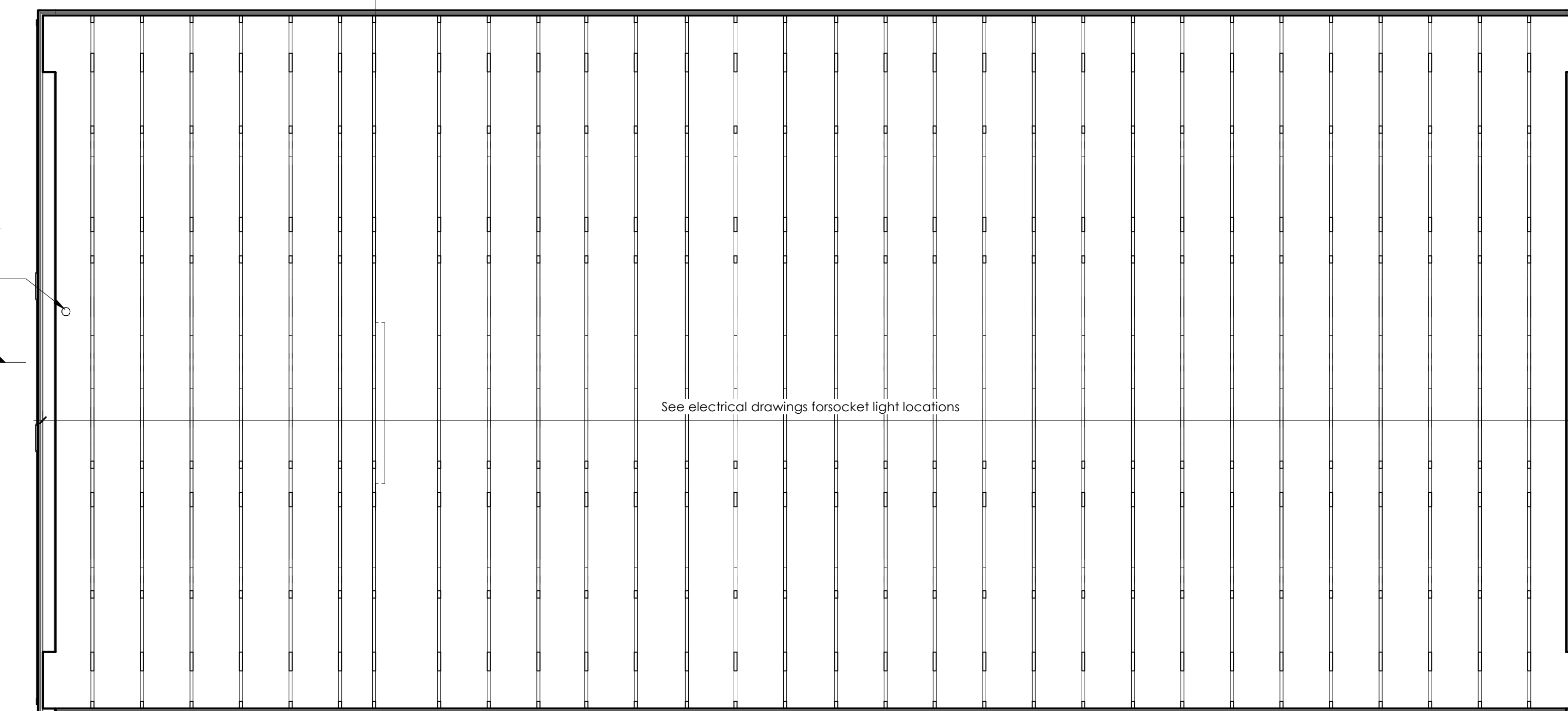
1 Cabinet Details Microwave  
1 1/2" = 1'-0"



FOR BID	DATE	BY	DATE	PE NUMBER	DATE
	OCT. 2025	DM	OCT. 2025	2705	OCT. 2025



1 First Floor Reflected Ceiling Plan  
1/4" = 1'-0"





2 Attic Reflected Ceiling Plan  
1/4" = 1'-0"

Lighting Fixture Schedule

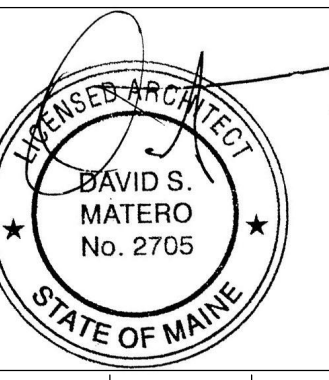
A	12" x 48" Surface mounted LED fixture
B	4" x 48" Surface mounted LED fixture
C	4" x 12" Surface mounted LED fixture
D	Undercabinet LED fixture
E	4" x 48" Wall mounted LED mirror fixture
F	Exterior Wall mounted full-cutoff LED fixture

Note: See electrical drawings for fixture specifications

Reflected Ceiling Legend

-  Supply Register
-  Return Register

Note: See Mechanical plans for register specifications

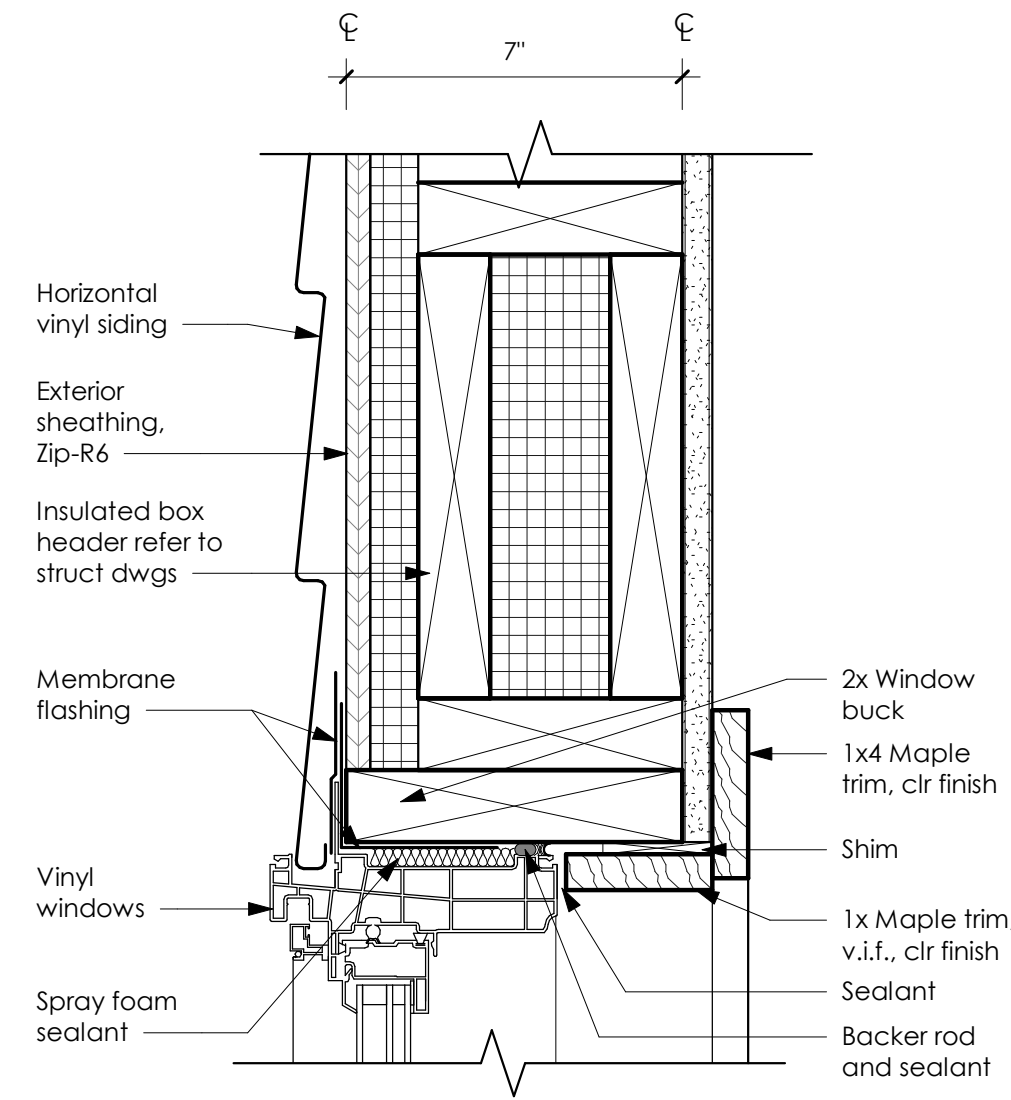


FOR BID	BY	DATE
	DM	OCT. 2025

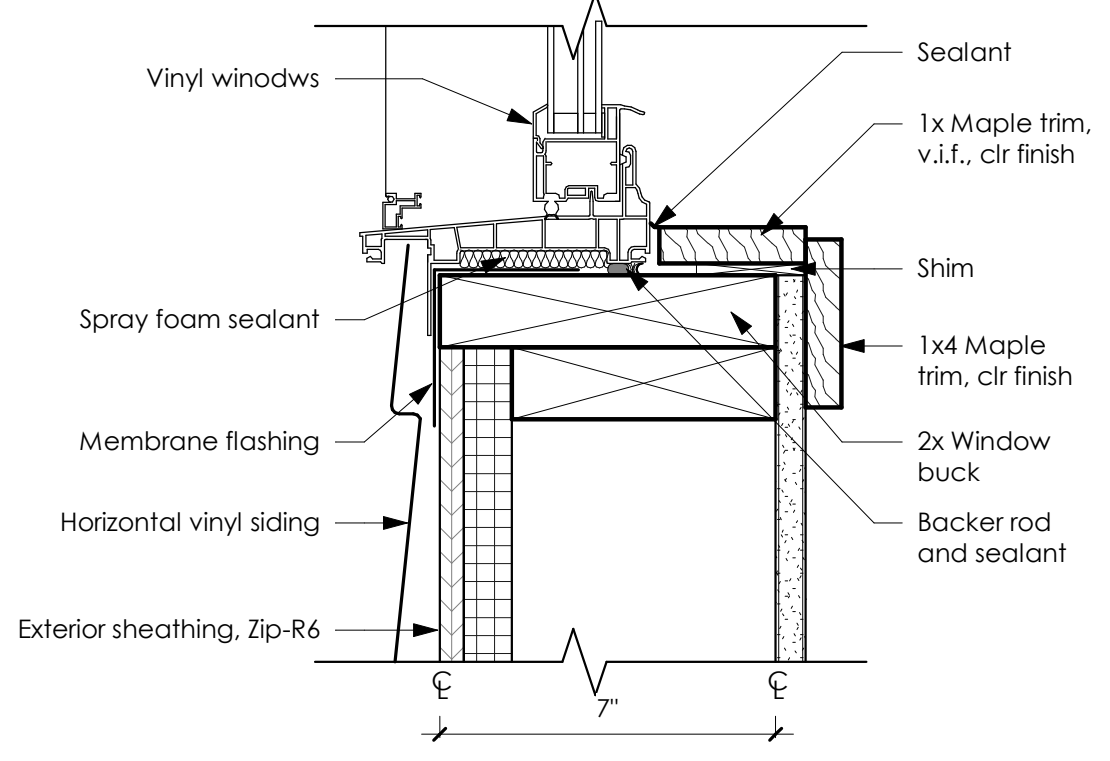
CREW QUARTERS  
WALDOBORO, MAINE  
PROPOSED REFLECTED  
CEILING PLAN

SHEET NUMBER

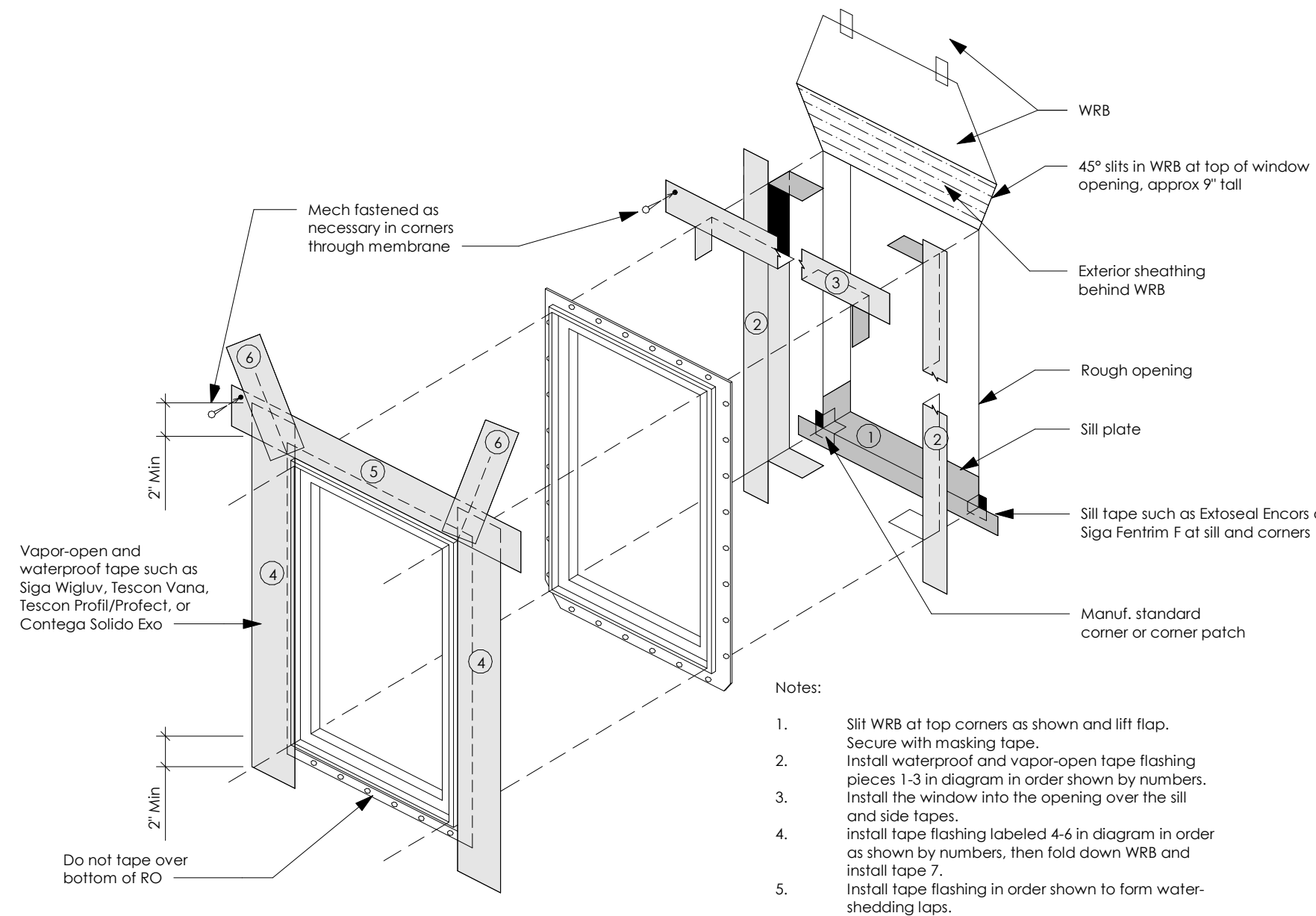
Mathews Brothers - Sanford Hills Window Schedule													
Tag	Manufacturer	Width	Height	# of Units Wide	Rough Opening		Materials		Egress	Tempered	U Value	SHGC	Remarks
					Width	Height	Exterior Finish	Interior Finish					
A	Mathews Brothers	3' - 0"	4' - 0"	1	3' - 0 1/2"	4' - 0 1/2"	Vinyl - White	Vinyl - White			0.2	0.23	
B	Mathews Brothers	3' - 0"	4' - 0"	2	6' - 0 5/8"	4' - 0 1/2"					0.2	0.23	
D	Mathews Brothers	3' - 0"	1' - 6"	1	3' - 0 1/2"	1' - 6 1/2"					0.2	0.23	



7 Typ Det @ Window Head / Jamb Sim  
3" = 1'-0"



6 Typ Det @ Window Sill  
3" = 1'-0"

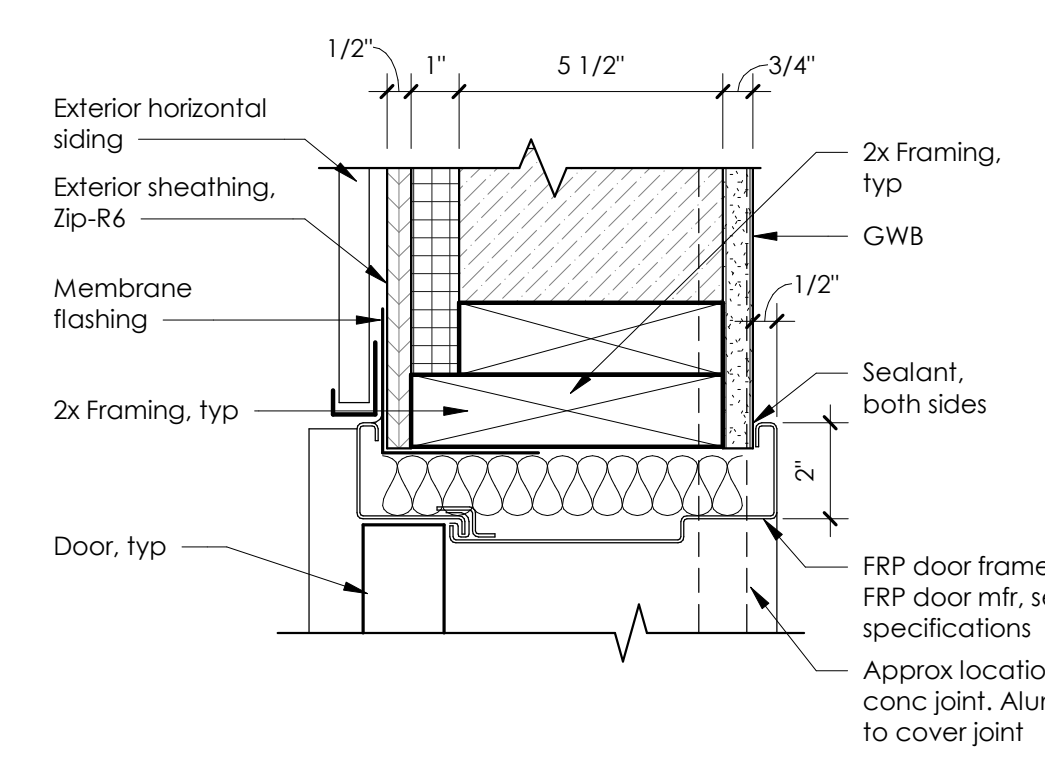


5 Window Flashing Detail - WRB Over Sheathing  
NTS

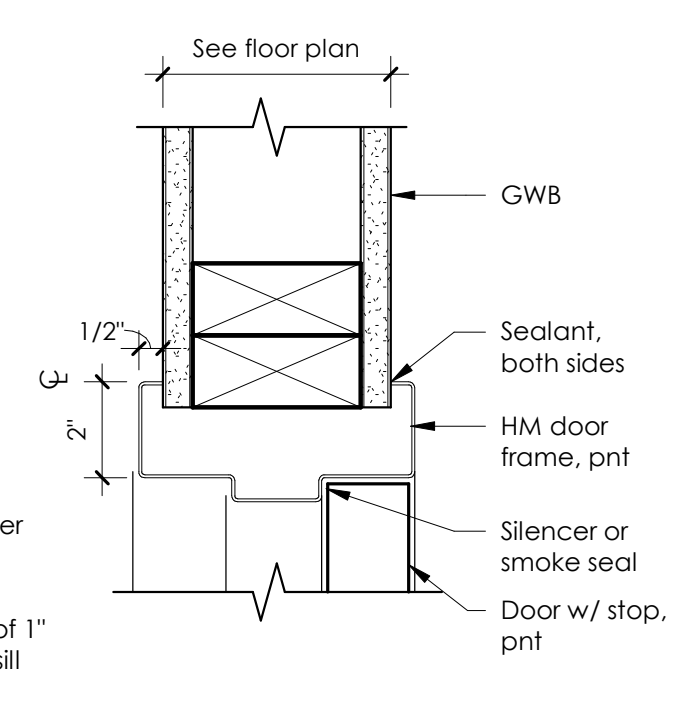
- Door Notes**
- All doors shall be located 4" off adjacent wall except where noted or dimensioned.
  - All door thicknesses to be 1 3/4" unless noted otherwise.
  - Provide minimum of 20 ga double studs (or double wood stud) at all door jambs.
  - All floor material transitions shall occur under door in closed position.
  - All door hardware shall meet ADA. Handles, pulls and latches shall be lever style. When sliding doors are fully opened (if specified), operating hardware shall be exposed and usable from both sides.
  - Provide wall-mounted door stops at all door openings opening against adjacent wall or door. Provide solid blocking at all locations of wall mounted door stops.
  - Provide floor mounted door stops at all doors where wall stops are not appropriate.

- Abbreviations**
- AL Aluminum
  - Clsr Closer
  - Ex Existing
  - HM Hollow Metal
  - Hrdwr Hardware
  - Insul Insulated
  - Obs Obscured Glass, Tempered
  - Pnt Paint
  - Pre Prefinish
  - Smoke Smoke Seal Frame
  - Thick Thickness
  - Wstrp Weatherstripping
  - Wd Wood
  - GL Glazing
  - SC Solid Core
  - FG Fiberglass
- Hardware Abbreviations**
- DB Dead Bolt
  - EL Entry Lock
  - FP Flush Pull
  - MC Magnet Ball Catch
  - MP Multi-Point French Door Lock
  - PD Pocket Door HW
  - PL Privacy Lock
  - PS Passage Set
  - RC Remote Control Opener
  - SC Screen Porch HW
  - IN Dr Hwrdr included w/ door
  - BF Bifold Door HW

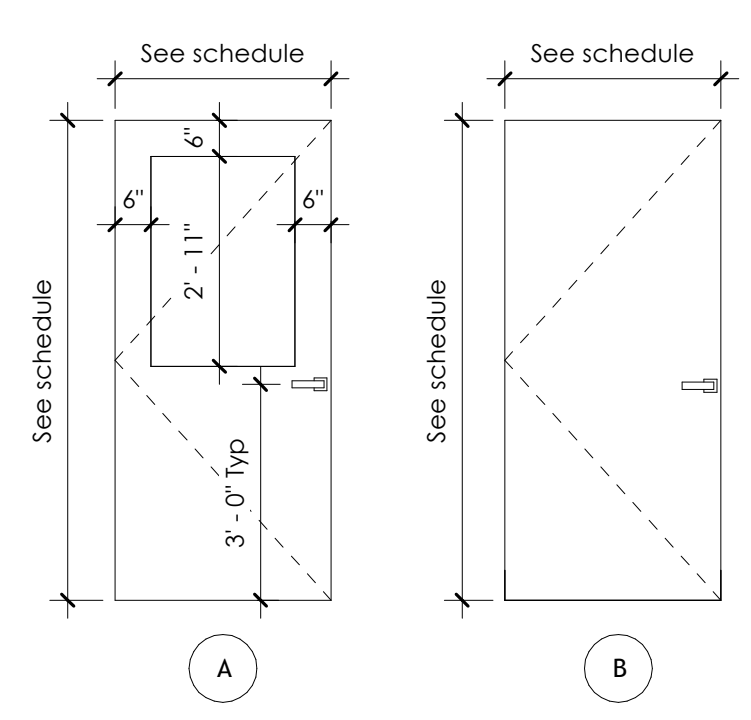
DOOR SCHEDULE																		
No.	Door								Frame				Hardware	Rating	Glazing	Closer	Panic	Comments
	Width	Height	Thick.	Material	Type	Finish	Insulated	Material	Type	Head	Jamb	Threshold						
1-01	3' - 0"	6' - 8"	1 3/4"	FRP	A	Pnt	Yes	FRP	1	4/19	4/19	Alum - ADA	ED		Insul/Temp	Yes	Yes	
1-02	3' - 0"	6' - 8"	1 3/4"	FRP	A	Pnt	Yes	FRP	1	4/19	4/19	Alum - ADA	ED		Insul/Temp	Yes	Yes	
1-03	2' - 6"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PL					
1-04	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PL					
1-05	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PL					
1-06	2' - 6"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PL					
1-07	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PS					
1-08	3' - 0"	6' - 8"	1 3/4"	HM	A	Pnt		HM	2	3/19	3/19		PS	Temp	Yes			
1-09	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		OF					
1-10	3' - 0"	6' - 8"	1 3/4"	HM	A	Pnt		HM	2	3/19	3/19		PS	Temp				
1-11	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		OF					
1-12	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		WD	2				PDL					
1-13	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		WD	2	3/19	3/19		PS					
1-14	3' - 0"	6' - 8"	1 3/4"	FRP	A	Pnt	Yes	FRP	1	4/19	4/19	Alum - ADA	ED			Yes	Yes	



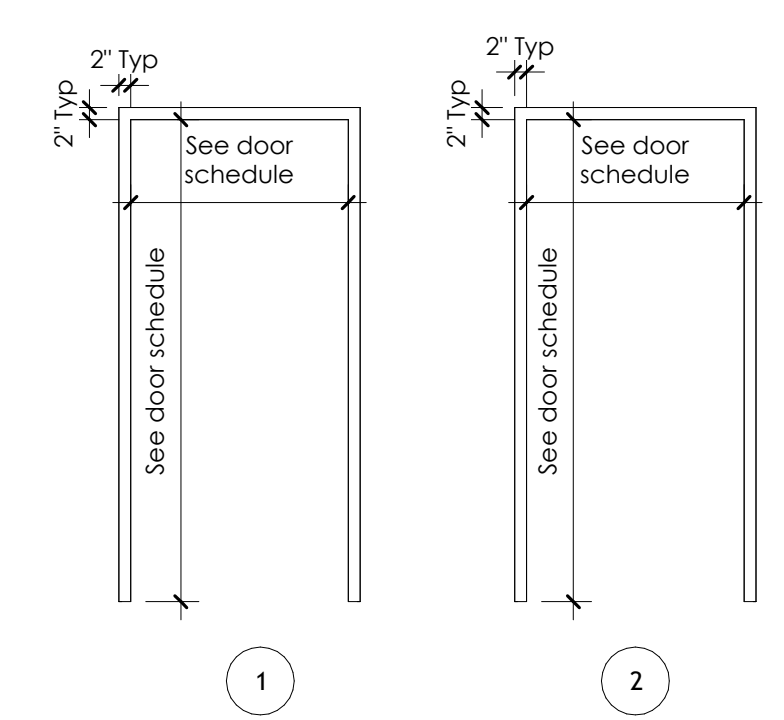
4 Typ Exterior Door Jamb Det (Head Sim)  
3" = 1'-0"



3 Door Jamb Det (Head Sim)  
3" = 1'-0"



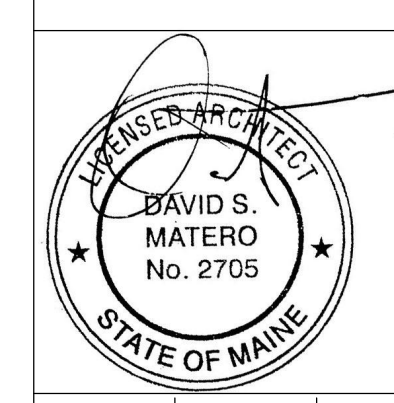
2 Door Types  
3/8" = 1'-0"



1 Frame Types  
3/8" = 1'-0"

STATE OF MAINE DOT  
CREW QUARTERS WALDOBORO, MAINE  
WALDOBORO, MAINE  
WIN 028559.00

DAVID MATERO  
Architecture  
49 Centre Street  
Bath, ME 04530  
207.389.4278  
info@davidmatero.com



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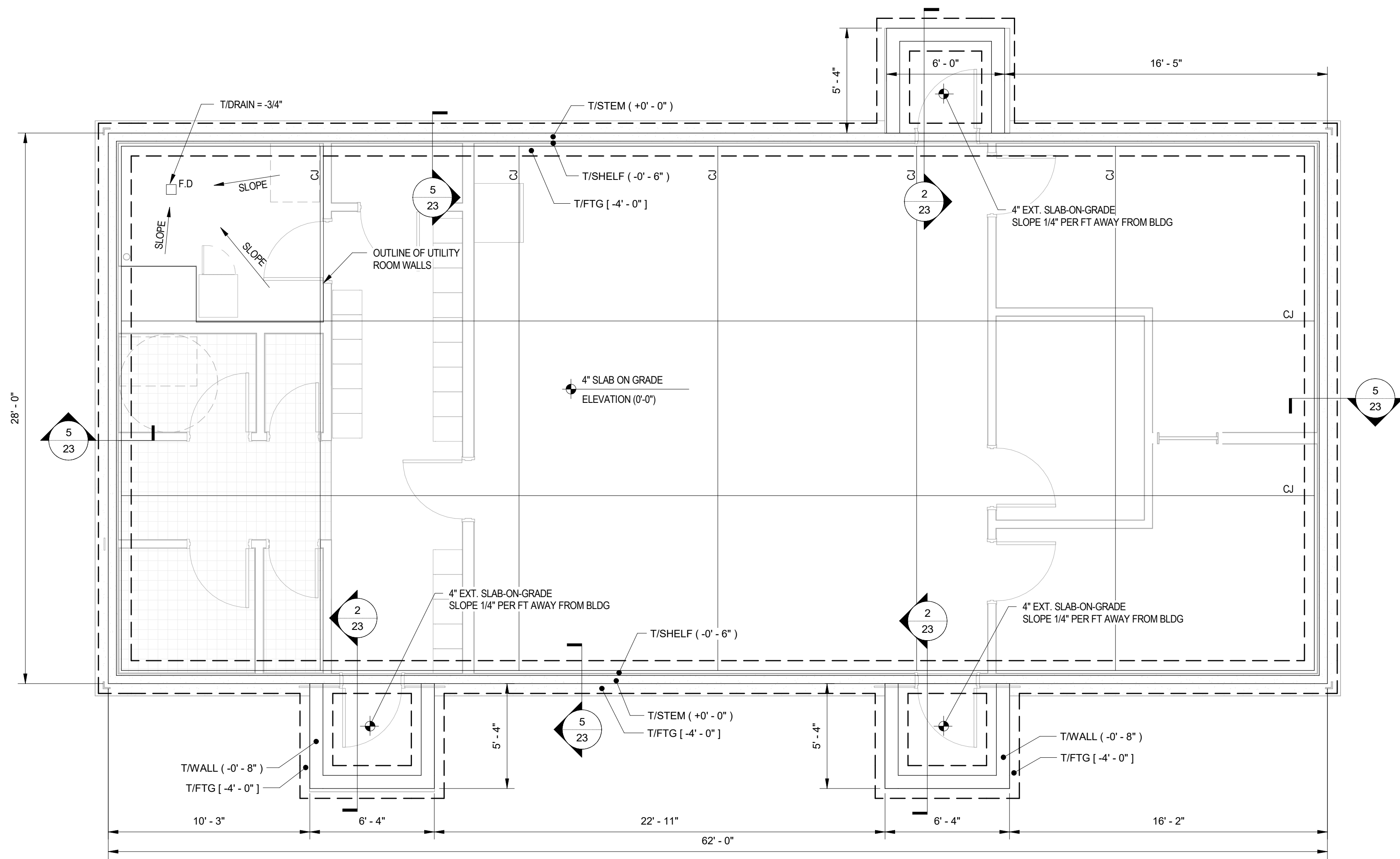
CREW QUARTERS  
WALDOBORO, MAINE  
WINDOW & DOOR  
SCHEDULES, DETAILS

SHEET NUMBER

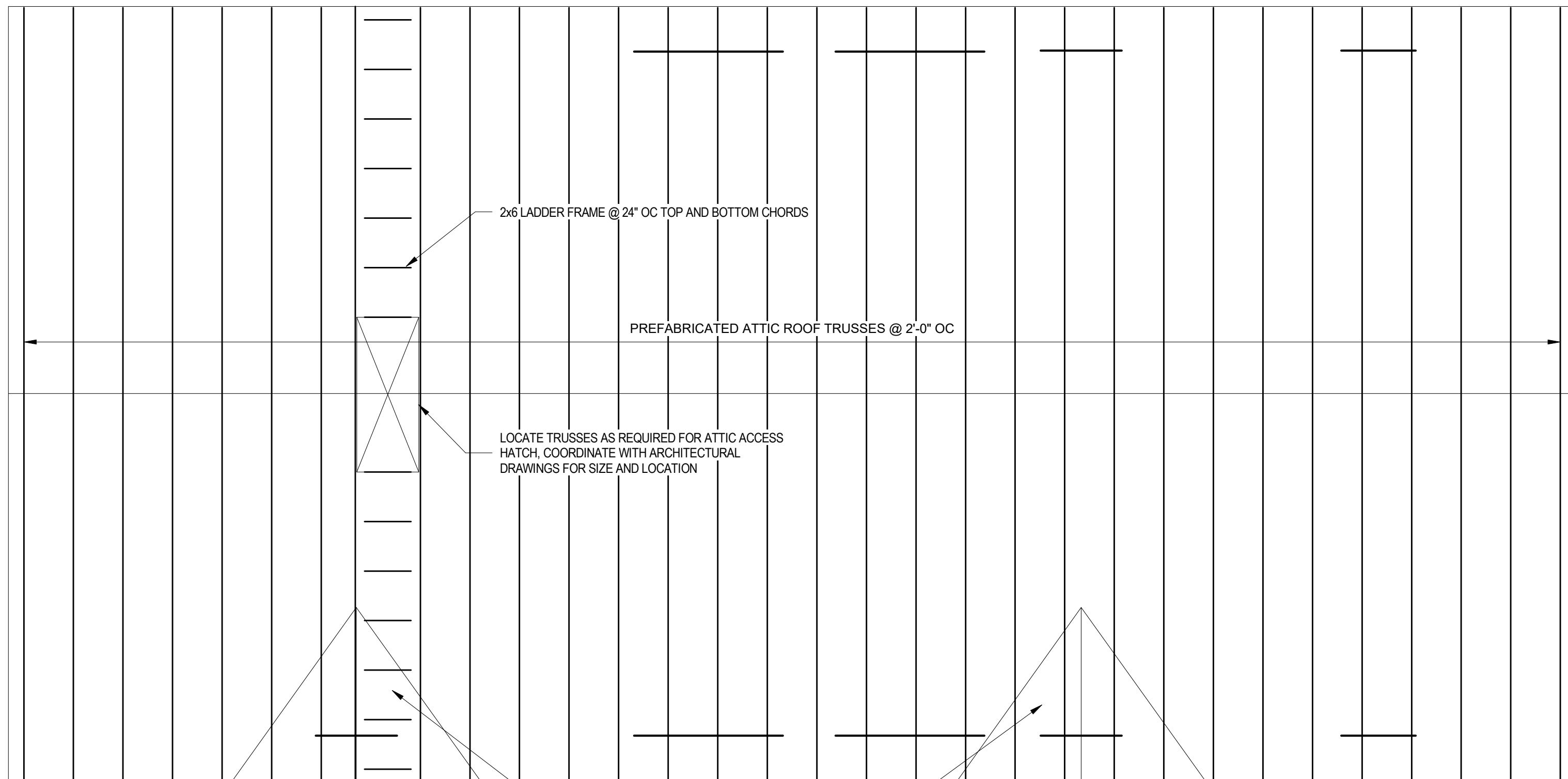


**FOUNDATION PLAN NOTES**

1. REFERENCE TOP OF SLAB-ON-GRADE ELEVATION = 0'-0", COORDINATE WITH CIVIL FOR ACTUAL ELEVATION
2. TOP OF CONCRETE ELEVATIONS ARE NOTED (+/- 'X'-X") FROM REFERENCE ELEVATION.
3. "CJ" DENOTES CONTROL JOINT LOCATION



① FOUNDATION PLAN  
1/4" = 1'-0"



② ROOF FRAMING PLAN  
1/4" = 1'-0"

**FRAMING NOTES:**

1. WALL FRAMING SHALL BE 2x6 @ 24" ON CENTER, ALIGNED WITH ROOF TRUSSES.
2. SEE TYPICAL HEADER DETAIL AND SCHEDULE 6 / 23
3. ALL EXTERIOR WALLS SHALL BE SHEATHED ON ONE SIDE WITH ZIP R6 SHEATHING, NAIL EXTERIOR SHEATHING PANEL EDGES @ 3" O.C. BLOCK AND STAGGER ALL PANEL EDGES. SPACE NAILS AT 12" O.C. AT INTERMEDIATE PANEL SUPPORTS, TYP U.N.O.
4. SEE PREFABRICATED TRUSS NOTES ON STRUCTURAL NOTES SHEET FOR LOADING INFORMATION

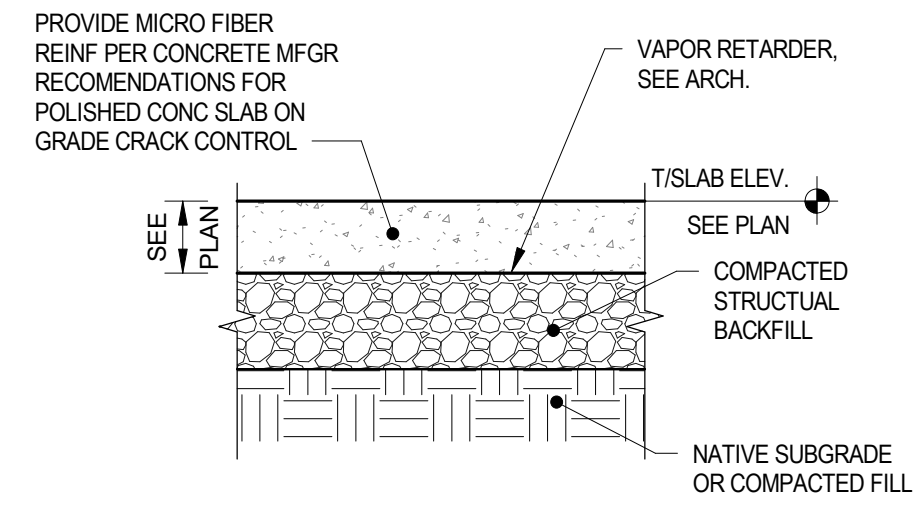
STATE OF MAINE DOT  
CREW QUARTERS  
WALDOBORO, MAINE  
WIN 028559.00



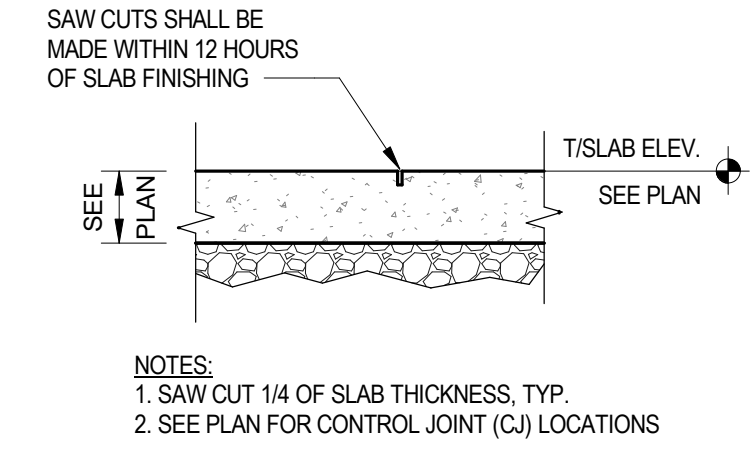
DATE	BY	REV	FOR	APPROVER	PE NUMBER	DATE
OCT. 2025	TD					

CREW QUARTERS  
FOUNDATION & ROOF  
FRAMING PLANS

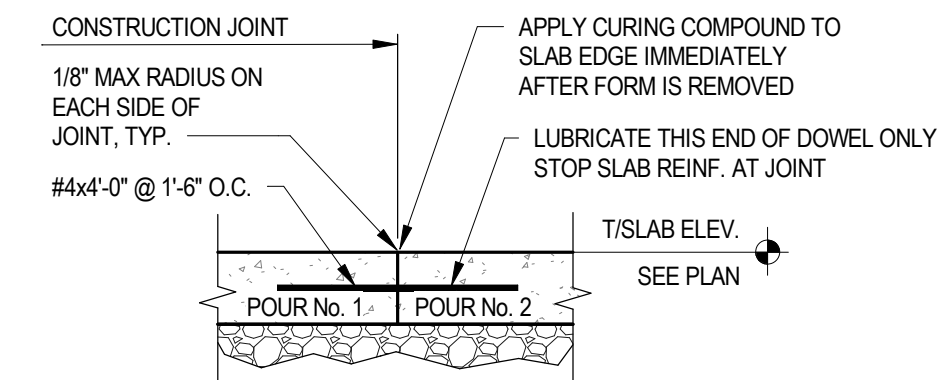
SHEET NUMBER  
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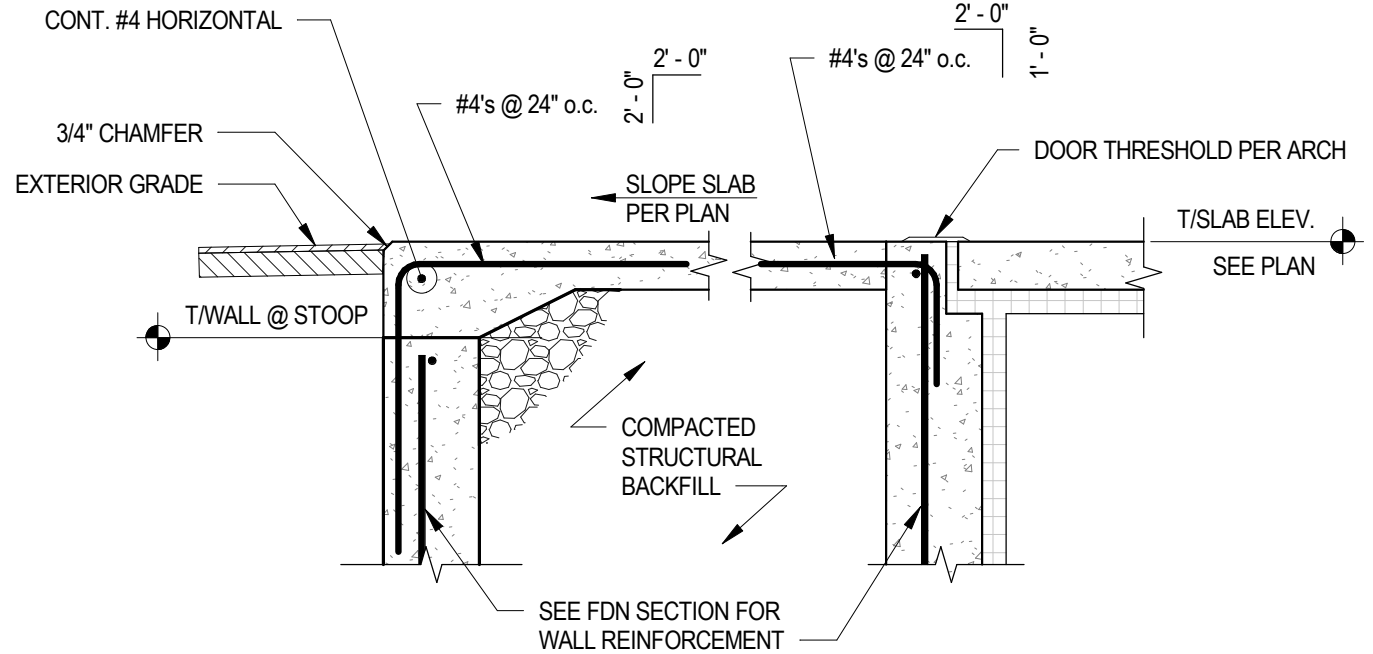
1 TYPICAL SLAB-ON-GRADE DETAILS  
NTS



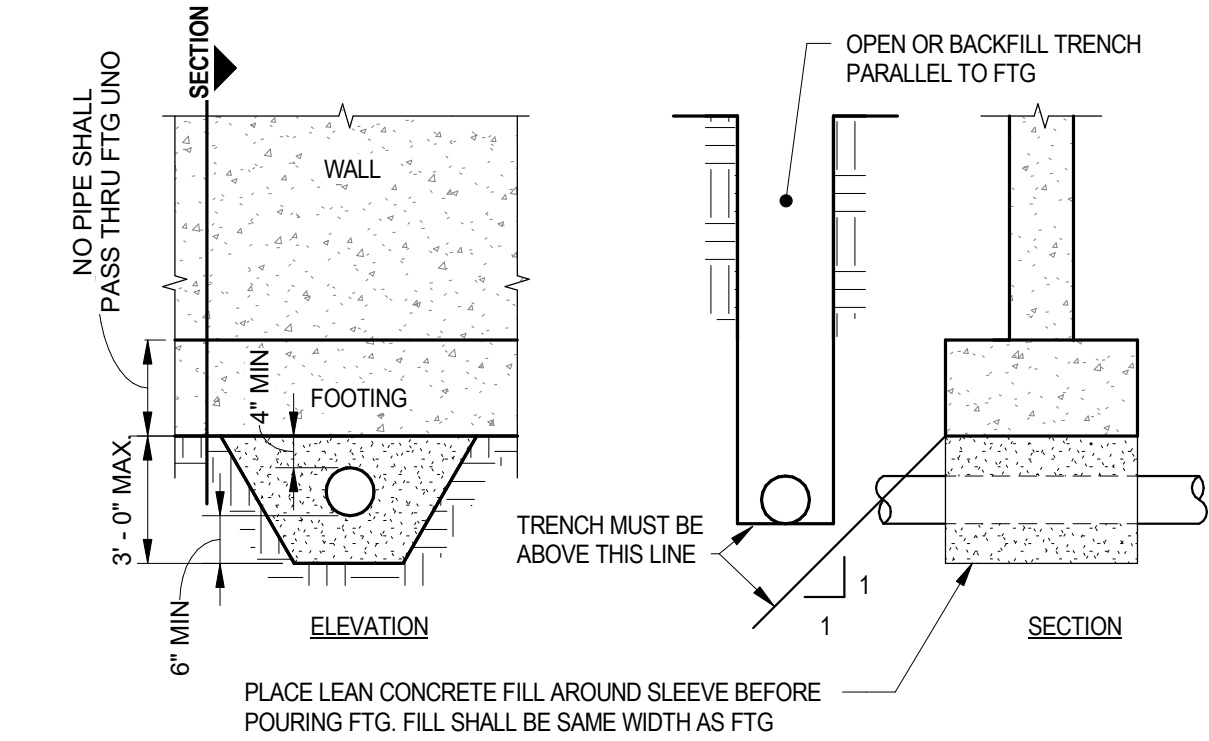
CONTROL JOINT



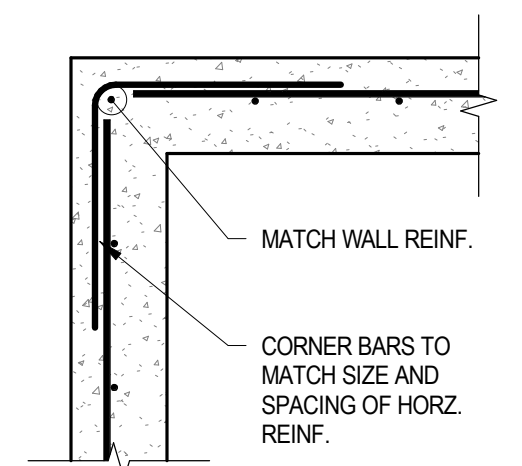
CONSTRUCTION JOINT



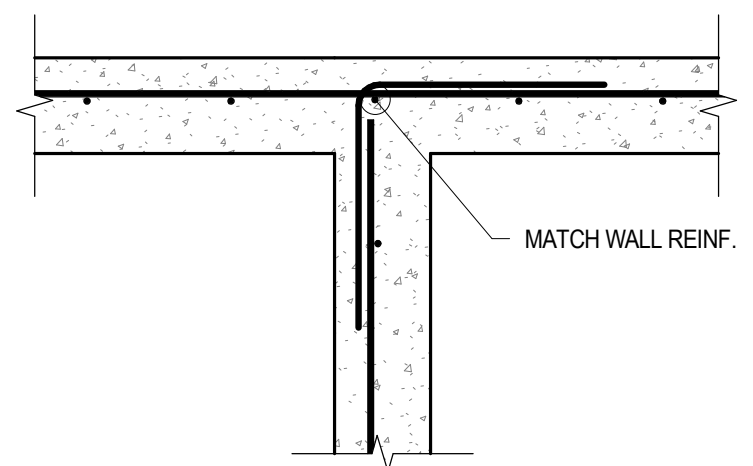
2 TYPICAL SECTION AT STOOP  
NTS



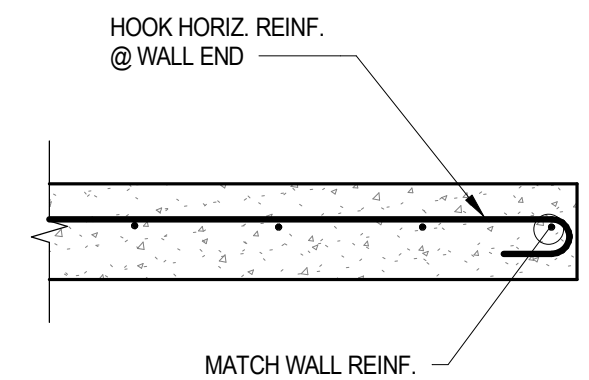
3 TYPICAL UTILITY UNDER FOOTING  
NTS



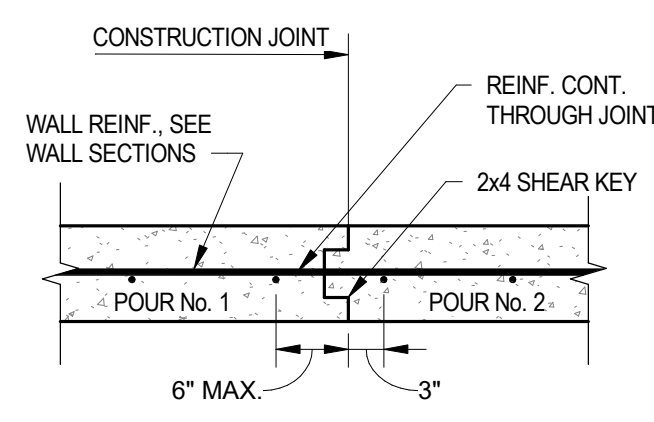
DETAIL @ WALL CORNER  
W/ SINGLE ROW OF WALL REINFORCING



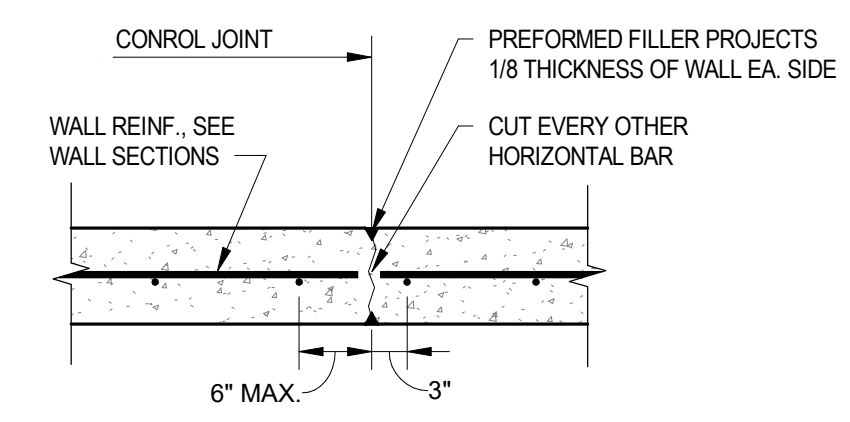
DETAIL @ WALL INTERSECTION  
W/ SINGLE ROW OF WALL REINFORCING



DETAIL @ WALL END  
W/ SINGLE ROW OF WALL REINFORCING

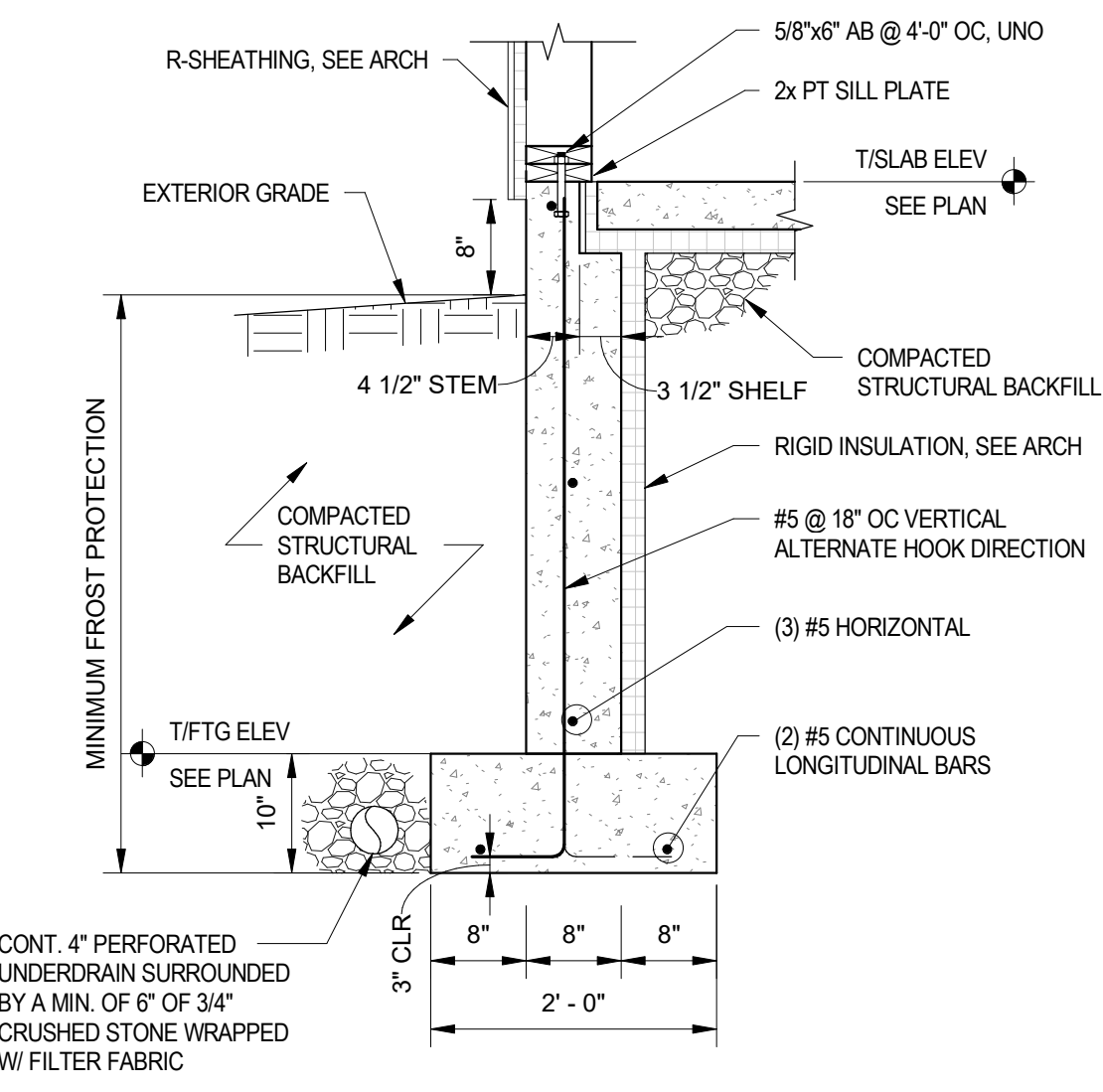


CONSTRUCTION JOINT DETAIL  
W/ SINGLE ROW OF WALL REINFORCING

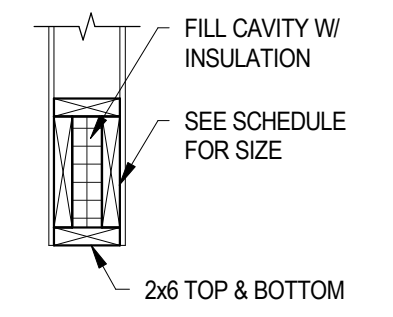


CONTROL JOINT DETAIL  
W/ SINGLE ROW OF WALL REINFORCING

4 TYPICAL FOUNDATION WALL DETAILS - SINGLE LAYER OF REINF  
NTS



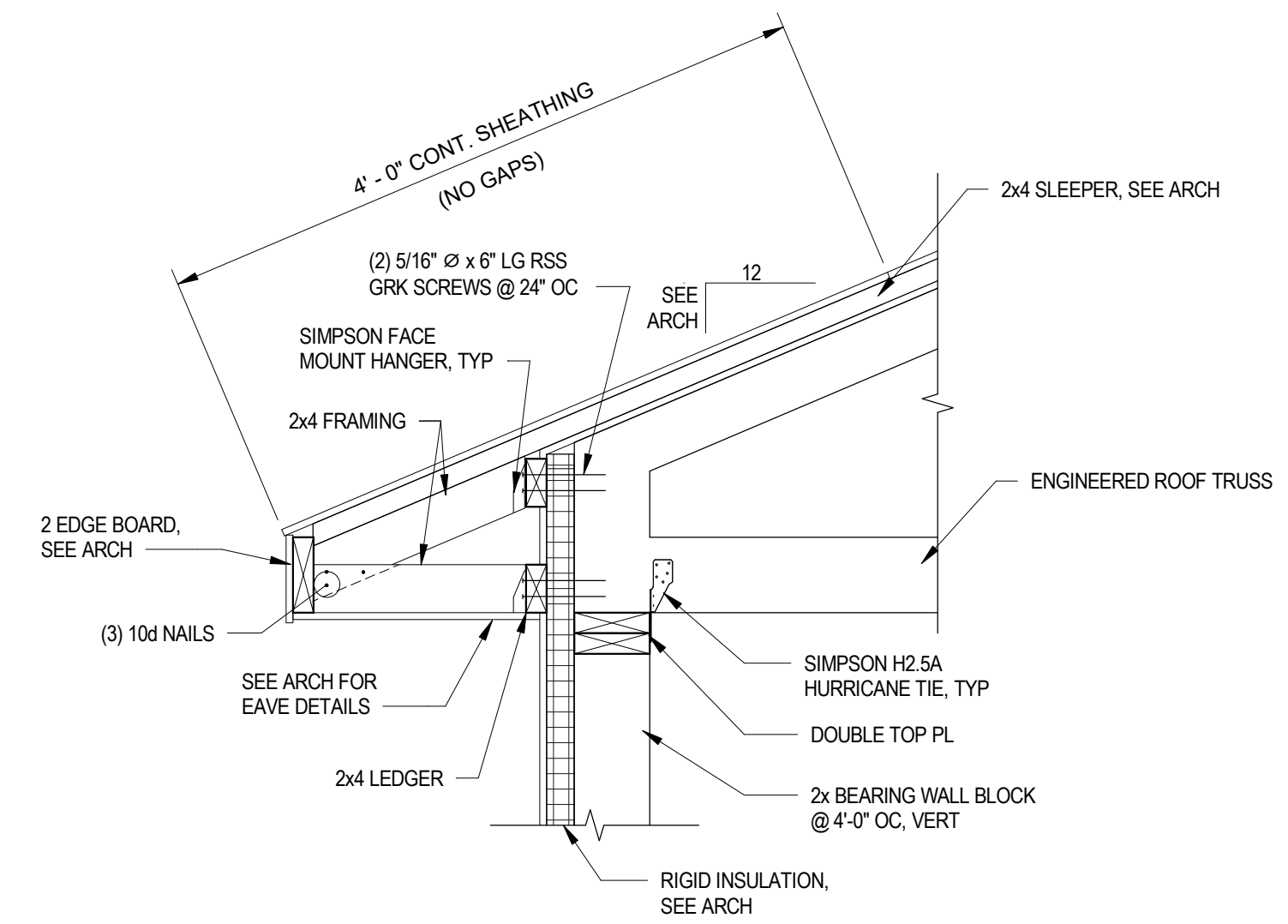
5 TYPICAL FOUNDATION WALL SECTION  
NTS



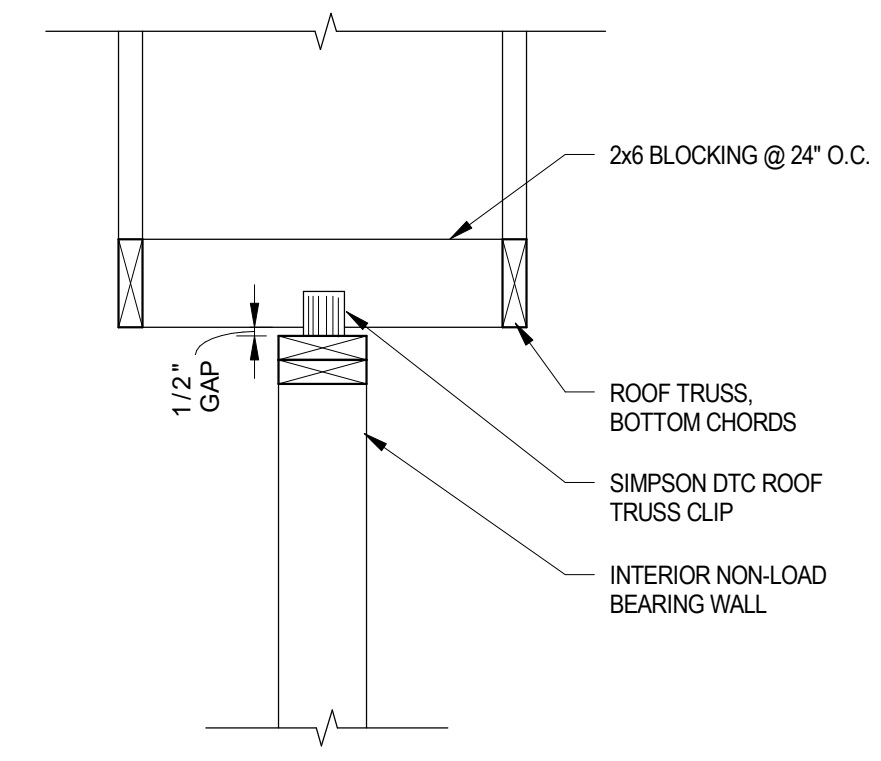
HEADER SPAN	HEADER SIZE	HEADER SUPPORTS
4'-0" MAX	(2) 2x10	(1) JACK, (1) KING
8'-0" MAX	(2) 1 3/4 x 9 1/4 LVL	(2) JACK, (2) KING

- NOTES:
- HEADER SIZES PER SCHEDULE.
  - WHERE OTHER HEADER SIZES ARE NOTED ON PLAN, FORM BOX HEADER W/ (2) 2x6 HORIZ UNO.
  - NON LOAD-BEARING HEADERS SUPPORTED BY MINIMUM OF (1) JACK STUD.
  - WINDOW SILL PLATES EXCEEDING 6 FT SHALL BE (2) 2x (FLAT), MATCH STUD WIDTH.

6 HEADER DETAIL & SCHEDULE  
NTS



7 TYPICAL ROOF TRUSS END DETAIL  
1" = 1'-0"



8 TYPICAL WOOD TRUSS DEFLECTION CLIP  
NTS

STATE OF MAINE DOT  
CREW QUARTERS  
WALDOBORO, MAINE  
WIN 028559.00



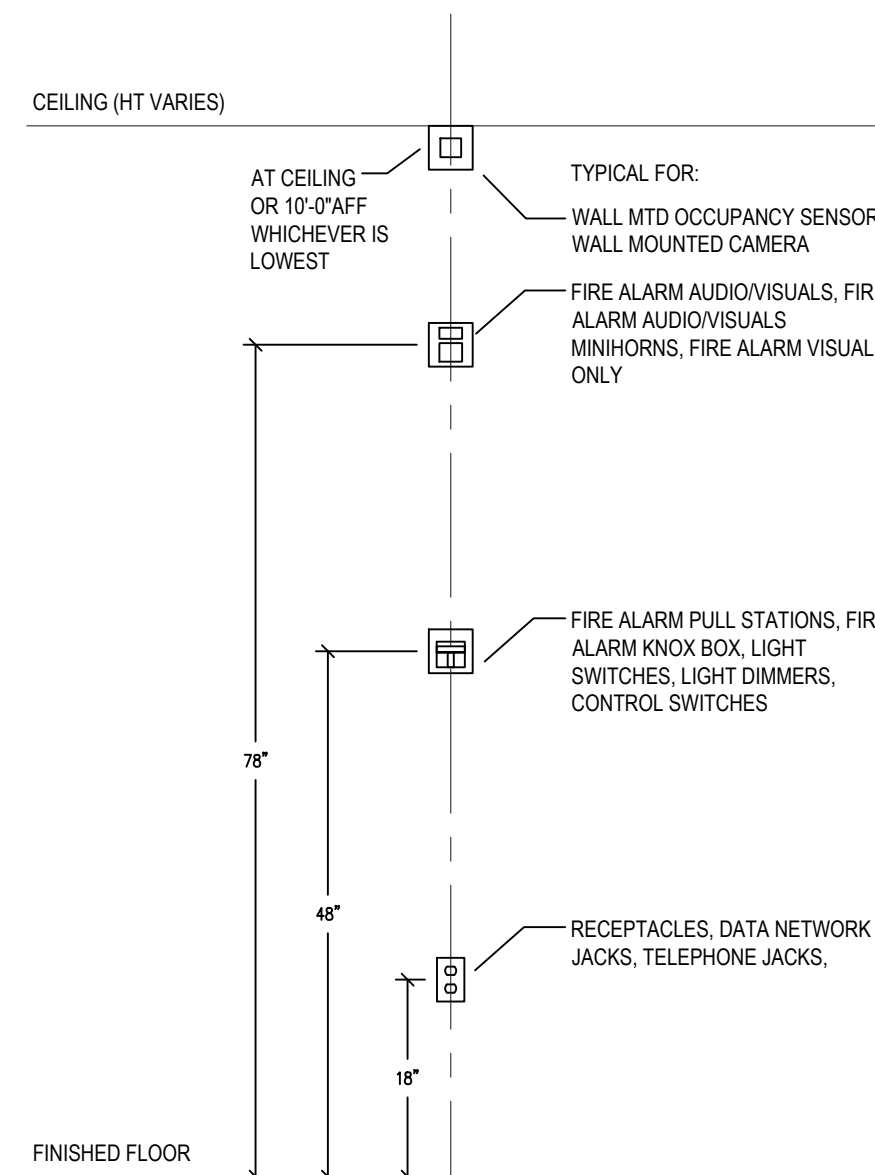
DATE	BY	REV	FOR BID
OCT. 2025	TD		

CREW QUARTERS  
STRUCTURAL DETAILS

SHEET NUMBER

## GENERAL NOTES

- ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED ALL WIRING SHALL BE 2 #12 AWG AND 1 #12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A/1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
- CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH #10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.
- TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.
- 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 RECOMMENDATION.
- ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
- ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
- COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.
- LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
- PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.
- THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.
- PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
- OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 - ARTICLE 406.9.
- PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT OBTAIN VALUES FROM ENGINEER.
- PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24
- COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF MINI SPLIT OUTDOOR CONDENSING UNIT (SCU) WITH CONTRACTOR. PROVIDE A WEATHERPROOF DISCONNECT SWITCH FOR CU UNIT, COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF EACH MINI SPLIT INDOOR UNIT (SAC). PROVIDE A 30A/2P DISCONNECT SWITCH FOR EACH UNIT, COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. SAC UNITS SHALL BE POWERED FROM THEIR CORRESPONDING CU UNIT, PROVIDE EMT 1" CDT WITH PULL STRING FROM SAC UNIT TO CU UNIT FOR MECHANICAL CONTRACTOR'S USE. PROVIDE POWER WIRING FROM SCU TO PANEL P1.
- FOR RECEPTACLES INDICATED BY "SW", CONNECT THE TOP HALF OF RECEPTACLE TO WALL SWITCH AS SHOWN, BOTTOM HALF TO REMAIN "HOT" AT ALL TIMES.
- MOUNT RECEPTACLE FOR MICROWAVE/HOOD COMBO ABOVE RANGE AT 66" AFF. COORDINATE EXACT LOCATION AND MOUNTING WITH KITCHEN INSTALLER.
- VERIFY MOUNTING AND LOCATION OF ALL DISCONNECT SWITCHES AND MANUAL MOTOR STARTERS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



- NOTES:
- DEVICES SHALL BE MOUNTED AT ELEVATIONS INDICATED ABOVE UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS, IN SYMBOLS SCHEDULE OR DIRECTED BY ARCHITECT.
  - WIRING DEVICES (DATA NETWORK JACKS, RECEPTACLES, ETC.) SHOWN SIDE BY SIDE ELECTRICAL PLANS SHALL BE MOUNTED IN A SINGLE BOX AND FACEPLATE.
  - LIGHTING SWITCHES AND DIMMERS SHOWN SIDE BY SIDE ON ELECTRICAL PLANS SHALL BE MOUNTED IN A SINGLE BOX AND FACEPLATE.
  - LOCATIONS OF ELECTRICAL DEVICES AND LIGHTING SWITCHES/DIMMERS ARE SHOWN SCHEMATICALLY ON ELECTRICAL PLANS. ALIGN DEVICES SHOWN ADJACENT TO ONE ANOTHER ON ELECTRICAL PLANS VERTICALLY AS SHOWN ABOVE.
  - MOUNTING HEIGHTS INDICATED ARE TO CENTERLINE OF DEVICE.

## 1 DEVICE ALIGNMENT DETAIL

SCALE: NONE

## SYMBOL LEGEND

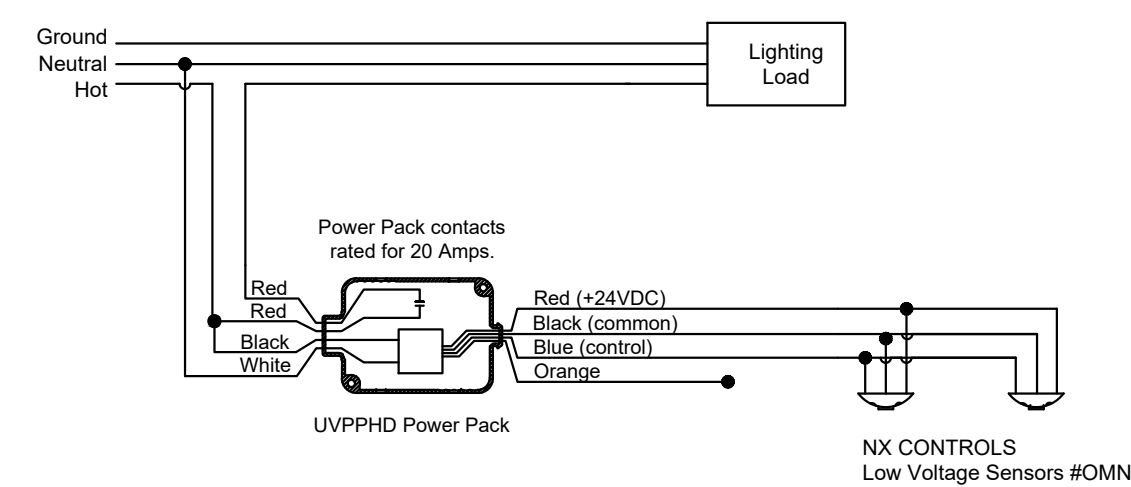
### POWER SYMBOLS

- ELECTRICAL PANELBOARD, SEE DRAWING FOR DETAILS
- CONTROL PANEL, SEE DRAWING FOR DETAILS

- RH JUNCTION BOX  
RH = RANGE HOOD  
OH = OVERHEAD DOOR
- TAMPER-PROOF, DUPLEX RECEPTACLE, 20A, 125V, SPEC GRADE, GROUNDING TYPE, FLUSH MOUNTED IN FLOOR, PROVIDED W/MATCHING FACEPLATE.
- POP UP COUNTER RECEPTACLE 15A, 125V, TAMPER RESISTANT, FLUSH COUNTER MOUNTED, UL LISTED FOR COUNTERTOP INSTALLATION PROVIDED W/MATCHING FACEPLATE, HUBBELL #RCT200W, OR EQUAL
- DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.  
"AC" - MOUNTED WITHIN 6" OF COUNTERTOP  
"SW" - DENOTES SWITCHED OUTLET  
"NL" - EQUIPPED WITH NIGHTLIGHT LEGRAND #NTL85TRIC6 OR EQUAL
- DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF, BOTTOM RECEPTACLE SWITCHED.
- QUAD RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE DEDICATED FOR MICROWAVE USE. MOUNT RECEPTACLE AT 48" AFF.
- DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE DEDICATED FOR REFRIGERATOR. MOUNT RECEPTACLE AT 48" AFF.
- GFCI RATED, TAMPER-PROOF, DUPLEX RECEPTACLE 20A, 125V, SPEC GRADE, GROUNDING TYPE, FLUSH MOUNTED, PROVIDED W/MATCHING FACEPLATE  
AC = MOUNTED W/IN 6" OF COUNTERTOP  
WP = WEATHERPROOF RECEPTACLE W/IN AN IN-USE WEATHER-PROOF COVER
- 30A SIMPLEX RECEPTACLE, 30A, 125V, SPEC GRADE, GROUNDING TYPE, FLUSH MOUNTED, PROVIDED W/MATCHING FACEPLATE
- 50A SIMPLEX RECEPTACLE, 30A, 125V, SPEC GRADE, GROUNDING TYPE, FLUSH MOUNTED, PROVIDED W/MATCHING FACEPLATE
- DISCONNECT SWITCH, SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING, PROVIDED BY EC UNLESS NOTED OTHERWISE. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER.

### TELECOMMUNICATIONS SYMBOLS

- DUAL DATA JACK W/CAT 6 CABLE RUN BACK TO IDF ENCLOSURE IN ELECTRICAL ROOM. PROVIDE (1) 3/4" CONDUIT WITH PULL STRING FROM LOCATION OF JACK AND STUB OUT ABOVE CEILING IN ATTIC. MOUNT 18" AFF UNLESS OTHERWISE NOTED
- WIFI ROUTER CONNECTION, TELECOM JACK W/CAT 6 CABLE RUN BACK TO TBB, MOUNT ABOVE CEILING OR AT 12" BELOW CEILING AS DIRECTED BY ARCHITECT



## 2 LIGHTING CONTROL WIRING DETAILS

SCALE: NONE

### LIGHTING SYMBOLS

- LIGHTING FIXTURES, LETTERS DENOTE TYPE PER LIGHTING FIXTURE SCHEDULE.
- SELF CONTAINED EMERGENCY LIGHT, EVENLITE TCS-W-L67
- UNIVERSAL MOUNTED EXIT LIGHT SIGN, EVENLITE TLX-EM-GU-W

### LIGHTING CONTROL SYMBOLS

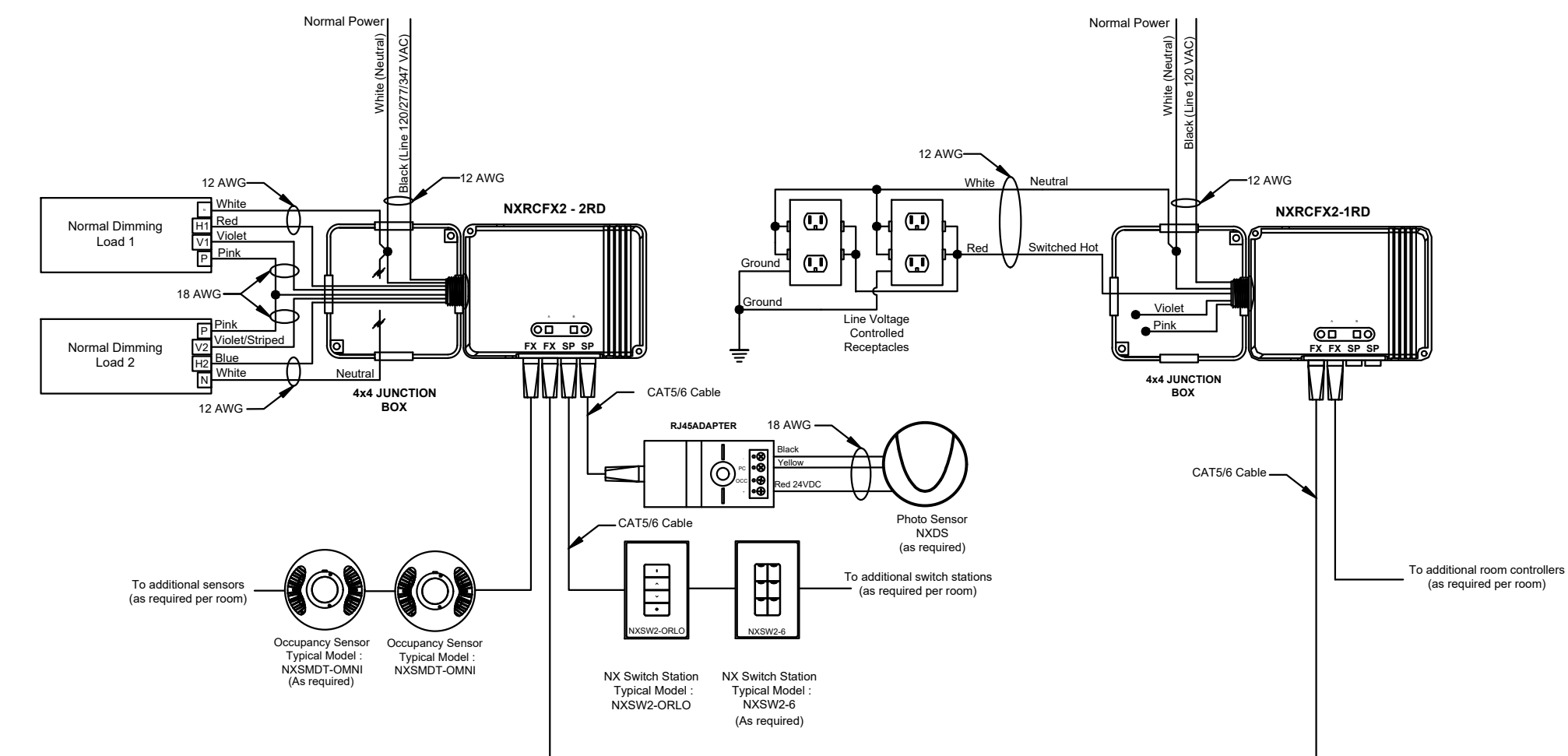
- MOTION SENSOR SWITCH - NX #LHMTS1
- MOTION SENSOR DIMMING SWITCH - NX #LHRDMMS2
- LOW VOLTAGE SWITCH - NX #SW2-00
- LOW VOLTAGE SWITCH - NX #OMNID2000

### FIRE ALARM SYMBOLS

- SYSTEM CONNECTED FIRE ALARM AUDIO/VISUAL, MOUNT 6"-8" AFF, NUMBER INDICATES CANDELA RATING, 'MH' INDICATES MINIHORN 'LF' INDICATES LOW FREQUENCY
- SYSTEM CONNECTED FIRE ALARM PULL STATION, MOUNT 48" AFF
- SYSTEM CONNECTED FIRE ALARM VISUAL STROBE ONLY, FLUSH MOUNT 6"-8" AFF, NUMBER INDICATED CANDELA RATINGS
- SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE
- SYSTEM CONNECTED CARBON MONOXIDE DETECTOR
- 120V LOCAL UNIT SMOKE DETECTOR, PHOTOELECTRIC TYPE
- 120V LOCAL UNIT COMBINATION SMOKE/CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE
- GAS DETECTOR
- FIRE ALARM KNOX BOX
- FIRE ALARM CONTROL PANEL

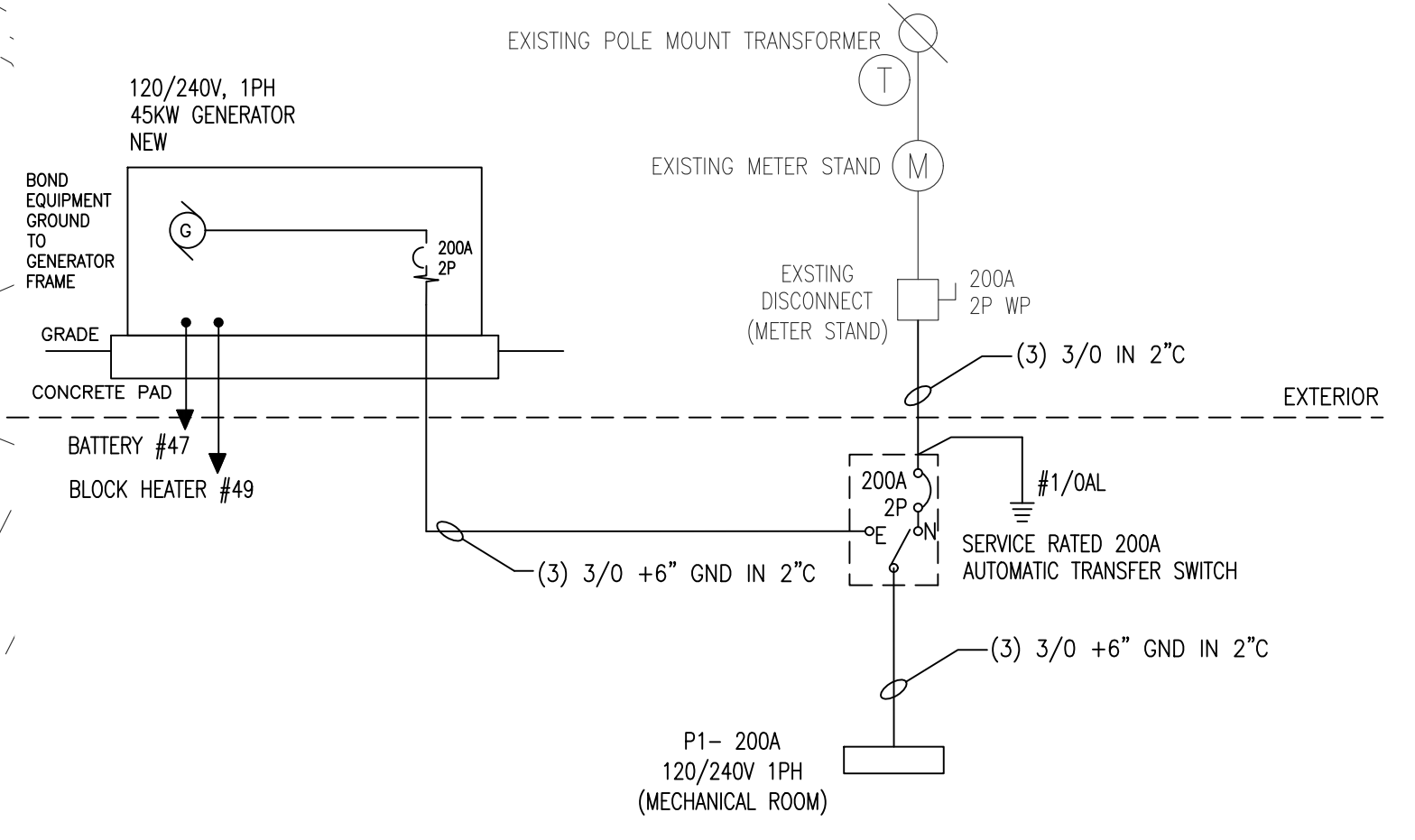
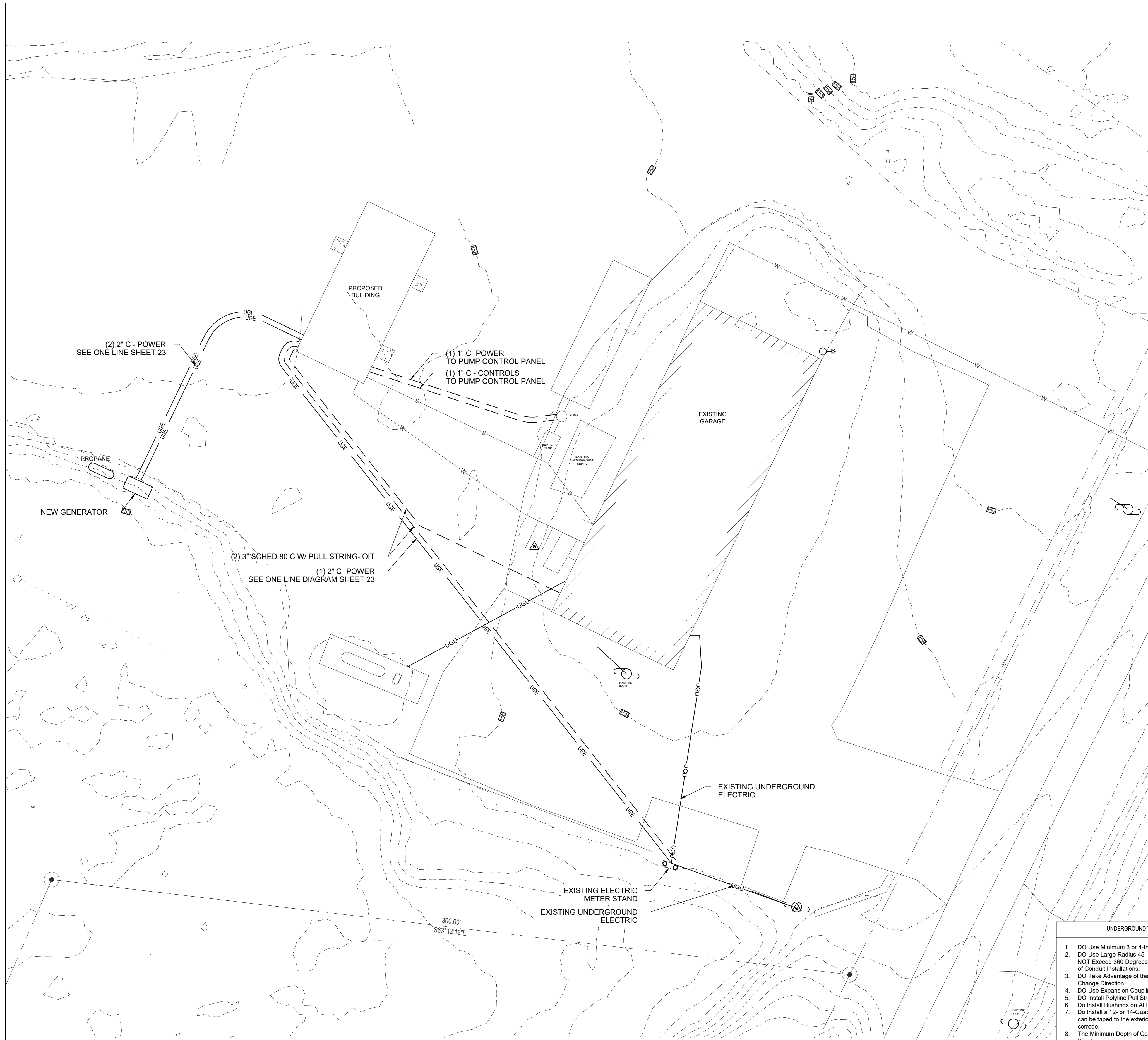
### WIRING SYMBOLS

- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILINGS
  - RACEWAY & WIRING RUN EXPOSED
  - RACEWAY & WIRING RUN CONCEALED UNDER FLOOR OR BURIED 30" BELOW FINISH GRADE
  - HOME RUN TO PANEL, WITH PANEL AND CIRCUIT NUMBER
- BRANCH CIRCUIT WIRING SHALL CONSIST OF (1)1/2"C-2#12AWG+1#12GND UNLESS OTHERWISE NOTED. (\*)ASTERISK DENOTES #10AWG FOR ALL CIRCUITS CONTAINED IN HOME RUN. (\*\*)DOUBLE ASTERISK DENOTES (1)3/4"C-2#8AWG+1#10GND.
- PROVIDE EQUIPMENT GROUNDS IN ACCORDANCE WITH NFPA 70, ARTICLE 250.



- PROVIDE ROOM CONTROLLERS (HUBBELL #NRCFX2) WITH QUANTITY OF ZONES AS REQUIRED FOR EACH RESPECTIVE ROOM/AREA AS NOTED ON THE FLOOR PLANS.
- ALL ROOM CONTROLLERS WITHIN AN AREA SHALL BE INTERCONNECTED WITH THE INTENT FOR ALL CONTROLLERS TO FUNCTION SIMULTANEOUSLY. REFER TO FLOOR PLANS FOR ZONE QUANTITIES.
- PROVIDE COMPONENTS AND INTERCONNECTING WIRING NECESSARY FOR A COMPLETE AND WORKING SYSTEM. THE WIRING DIAGRAMS SHOWN HEREIN IS SHOWN FOR INTENT ONLY. SHOP DWS SUBMISSION SHALL INCLUDE A COMPLETE ONE LINE DIAGRAM SHOWING ALL COMPONENTS AND WIRING REQUIRED BY THE MANUFACTURER.
- REFER TO FLOOR PLANS FOR QUANTITIES, LOCATIONS AND TYPES FOR ALL DEVICES. DEVICES SHOWN WITHIN DETAIL ARE FOR REFERENCE ONLY.

DATE	BY	FOR BID	ME-8468 PE NUMBER	OCT 2025 DATE
OCT. 2025	MJA			



**2 ONE-LINE DIAGRAM**  
SCALE: NONE

LEGEND		
EXISTING	DESCRIPTION	PROPOSED
■	MONUMENT	□
●	IRON REBAR/ROD/PIPE, LOCATED BY TEG	○
●	IRON REBAR/ROD/PIPE, LOCATED BY OTHERS	
---	STREET LINE	---
---	LOT SETBACKS	---
---	PROPERTY LINE	---
---	ABUTTER LINE	---
---	"NO CUT" BUFFER	---
---	WETLANDS	---
---	EDGE OF ROAD/TRAVELED WAY	---
●	SOIL TEST PIT	
---	CONTOUR	---
---	SPOT GRADE	---
●	GAS SHUT-OFF	
○	UTILITY POLE	○
---	OVERHEAD UTILITIES	---
---	UNDERGROUND ELECTRICAL	---
□	ELECTRICAL TRANSFORMER	□
○	FIRE HYDRANT	○
---	WATER LINE	---
---	WATER GATE	---
---	SEWER LINE	---
○	SEWER MANHOLE	○
○	DRAINAGE MANHOLE	○
□	CATCH BASIN	□
---	STORMDRAIN	---
---	UNDERDRAIN	---
---	SILT FENCE	---
---	TEMP. STONE CHECK DAM	---
---	GRADING AND FLOW DIRECTION	---
---	HAY BALES	---
---	EROSION CONTROL BLANKET	---
---	STORMWATER BOUNDARY	---
---	FACE OF LEDGE OUTCROP	---
---	DECIDUOUS TREE	---
---	CONIFEROUS TREE	---
---	TREE LINE	---
---	SITE LIGHTING	---
---	STONE WALL	---

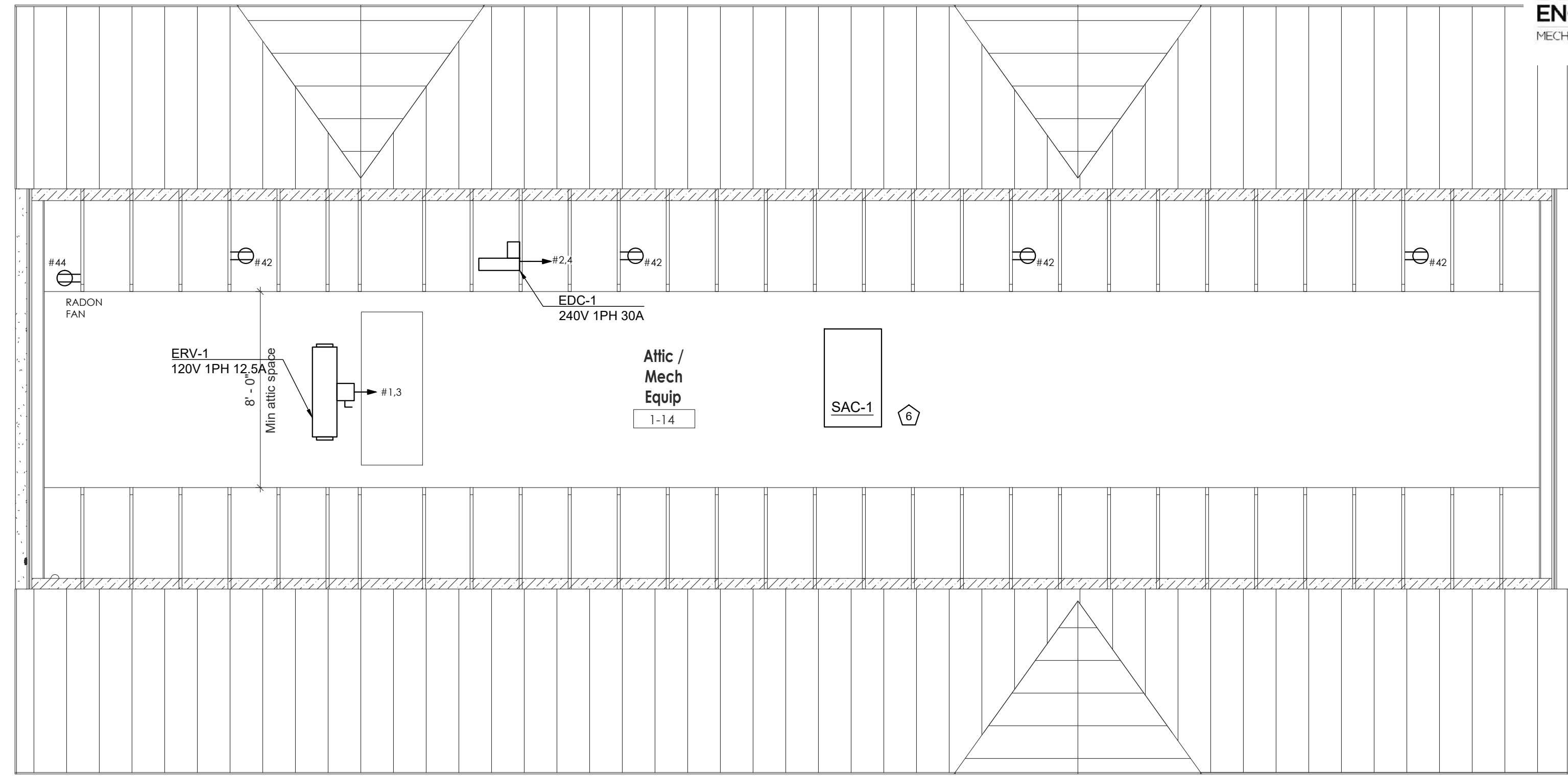
- UNDERGROUND TELECOM SERVICE REQUIREMENTS**
- DO Use Minimum 3 or 4-Inch Schedule 80 PVC Conduit.
  - DO Use Large Radius 45- or 90-Degree Sweeps, DO NOT Use Elbows. DO NOT Exceed 360 Degrees of Bend in the Inaccessible/Underground Sections of Conduit Installations.
  - DO Take Advantage of the Flexibility of 10-Foot Conduit Sections to Gradually Change Direction.
  - DO Use Expansion Couplings at Stub Up Locations.
  - DO Install Polyline Pull String or Mule Tape to Pre-Rope the Conduit(s).
  - DO Install Bushings on ALL Conduit Ends
  - DO Install Bushings on ALL Conduit Ends
  - DO Install a 12- or 14-Gauge Tracer Wire of TYPE MTW Only. The Tracer Wire can be taped to the exterior of the Conduit. DO NOT Use Type THHN it will corrode.
  - The Minimum Depth of Cover Over Communications Conduits Shall be 3-Feet 6-Inches.
  - DO Install Warning Tape at a Depth of 1-Foot, Indicating the Presence of Underground Facilities.
  - DO Use Clean Backfill Only Per NFPA 70 NEC 300.5(F).
  - DO Maintain 1-Foot of Horizontal Separation Between Communications Conduits and Conduits containing Electrical Power Conductors.
  - DO Consider the Installation of Warning Signs Indicating Buried Underground Cables.

**1 PROPOSED SITE PLAN**  
1" = 20'

PANEL P1 120/240 1PH 3W 200 AMP MCB 65K AIC NEMA TYPE 1 (SURFACE)															
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	VA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	VA
1	ERV-1	15	2	3	1.00	3	312	2	EDC-1	30	2	21	1.00	21	2520
3	EBB-1	20	1	10	1.00	10	1248	4	WH-1 (UTILITY)	20	1	8	1.00	8	996
5	EBB-1	20	1	10	1.00	10	1248	6	EBB-2	20	1	8	1.00	8	996
7	EBB-1	20	1	10	1.00	10	1248	8	EBB-2	20	1	8	1.00	8	996
9	SCU-1	80	2	50	1.00	50	6000	10	WH-1	30	2	25	0.75	19	2250
11	WH-2 (ENTRANCE)	20	1	13	1.00	13	1500	12	WH-1 (TOILET)	20	1	13	1.00	13	1500
13	WH-1 (TOILET)	20	1	13	1.00	13	1500	14	WH-1 (TOILET)	20	1	13	1.00	13	1500
15	DRIER	20	2	15	0.50	8	900	16	CP-1	20	1	2	1.00	2	1500
17	DRIER	20	2	15	0.50	8	900	22	MICROWAVE RECEPTACLE	20	1	6	0.50	3	360
21	WASHER	20	1	12	1.00	12	1440	24	MICROWAVE RECEPTACLE	20	1	6	0.50	3	360
23	SPARE	20	1	6	1.00	6	720	26	REFRIGERATOR	20	1	12	0.50	6	720
25	COUNTERTOP RECEPTACLES	20	1	6	0.50	3	360	28	LOCKER AREA RECEPTACLES	20	1	3	0.50	2	720
27	COMMON ROOM RECEPTACLES	20	1	6	0.50	3	360	30	TCL OFFICE RECEPTACLES	20	1	6	0.50	3	360
29	COMMON ROOM RECEPTACLES	20	1	6	0.50	3	360	32	TCS OFFICE RECEPTACLES	20	1	6	0.50	3	360
31	COMMON ROOM RECEPTACLES	20	1	2	0.50	1	120	34	TRAINING ROOM RECEPTACLES	20	1	6	0.50	3	360
33	FIRE ALARM CONTROL PANEL	20	1	3	0.50	2	180	36	INTERIOR LIGHTING CIRCUIT	20	1	8	0.50	4	480
35	OIT RECEPTACLE IN PANEL	20	1	3	0.50	2	180	38	EXTERIOR LIGHTING CIRCUIT	20	1	8	0.50	4	480
37	SINK AREA RECEPTACLE	20	1	3	0.50	2	180	40	EXTERIOR RECEPTACLES	20	1	2	0.50	1	120
39	SEWAGE PUMP	30	2	25	0.50	13	1500	42	ATTIC RECEPTACLES	20	1	2	0.50	1	120
41	SPARE	20	1	1.00	0	0	0	44	RADON FAN	20	1	2	0.50	1	120
43	SPARE	20	1	1.00	0	0	0	46	SPARE	20	1	1.00	0	0	0
45	SPARE	20	1	1.00	0	0	0	48	SPARE	20	1	1.00	0	0	0
47	GENERATOR BATTERY	20	1	1.00	0	0	0	50	SPARE	20	1	1.00	0	0	0
49	GENERATOR BLOCK HEATER	20	1	1.00	0	0	0	52	SPARE	20	1	1.00	0	0	0
51	ATS	200	2	1.00	0	0	0	54	SPARE	20	1	1.00	0	0	0
53	SPARE														

Panel Voltage 240  
Total KVA 47.41  
Tot Amps 197.55

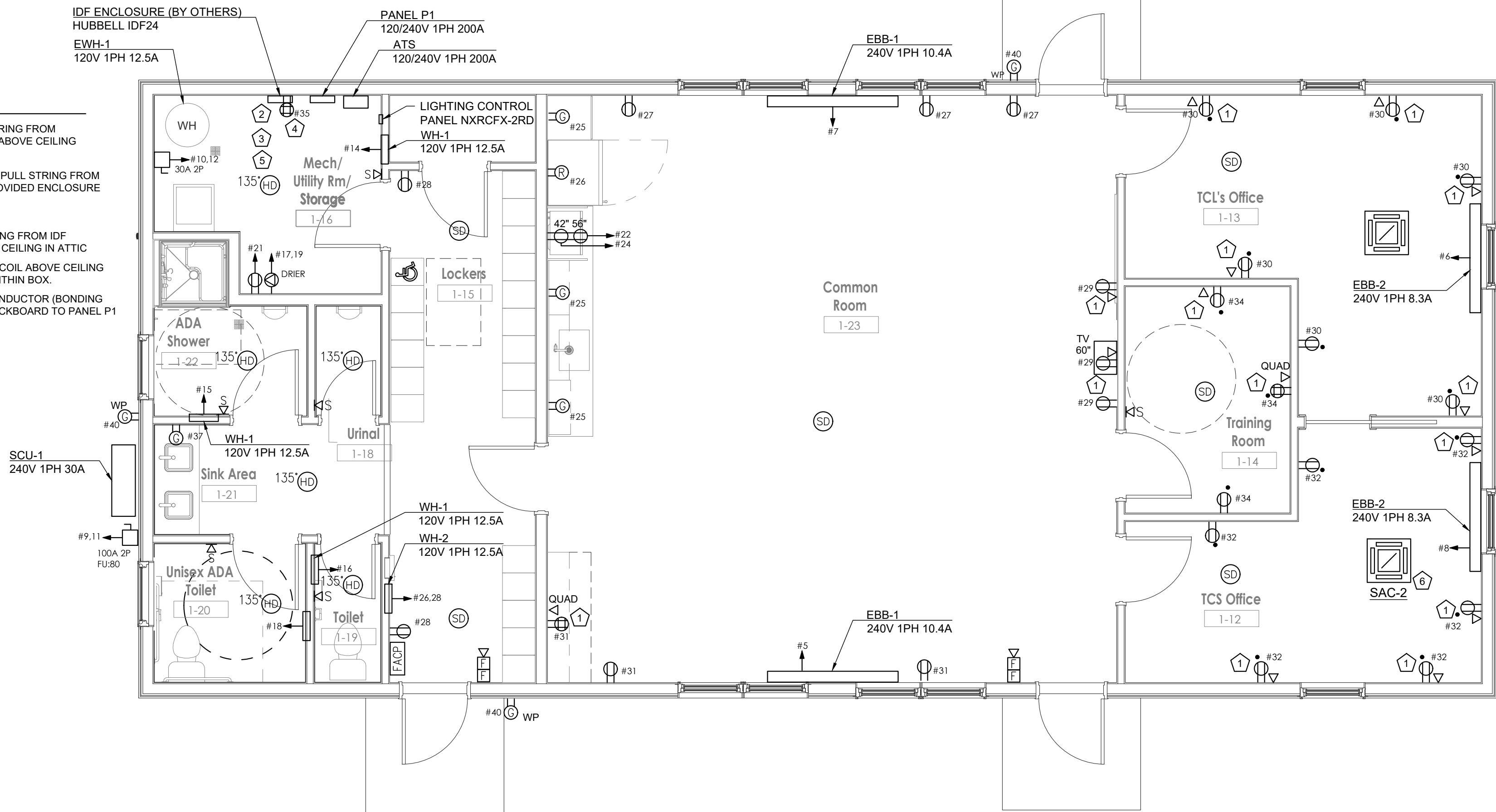
AT - Amp Trip  
P - Poles  
A - Amps  
CA - Connected Amperes  
DF - Demand Factor (1 - 1)  
DA - Demand Amperes  
VA - VoltAmps  
MLO - Main Lug Only  
MCB - Main Circuit Breaker



① Attic Electrical Plan  
1/4" = 1'-0"

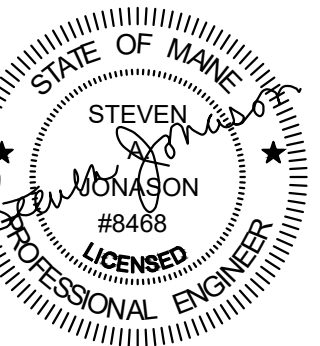
**ELECTRICAL WORK NOTES**

- PROVIDE (1) 3/4" CONDUIT WITH PULL STRING FROM RECEPTACLE LOCATION AND STUB OUT ABOVE CEILING IN ATTIC
- PROVIDE (2) 3" SCHED 80 CONDUIT WITH PULL STRING FROM POWER SOURCE TO BOTTOM OF OIT PROVIDED ENCLOSURE
- SEE ELECTRICAL SITE PLAN
- PROVIDE (2) 2" CONDUIT WITH PULL STRING FROM IDF PANEL LOCATION AND STUB OUT ABOVE CEILING IN ATTIC
- EC TO RUN RECEPTACLE CIRCUIT AND COIL ABOVE CEILING FOR OIT TO COMPLETE INSTALLATION WITHIN BOX.
- PROVIDE (1) #6AWG GREEN GROUND CONDUCTOR (BONDING JUMPER) FROM TERMINAL BLOCK ON BACKBOARD TO PANEL P1
- SAC INDOOR UNITS POWERED BY SCU-1



① Electrical Plan  
1/4" = 1'-0"

STATE OF MAINE DOT  
CREW QUARTERS  
WALDOBORO, MAINE  
WIN 028559.00



ME-6468			
PE NUMBER			

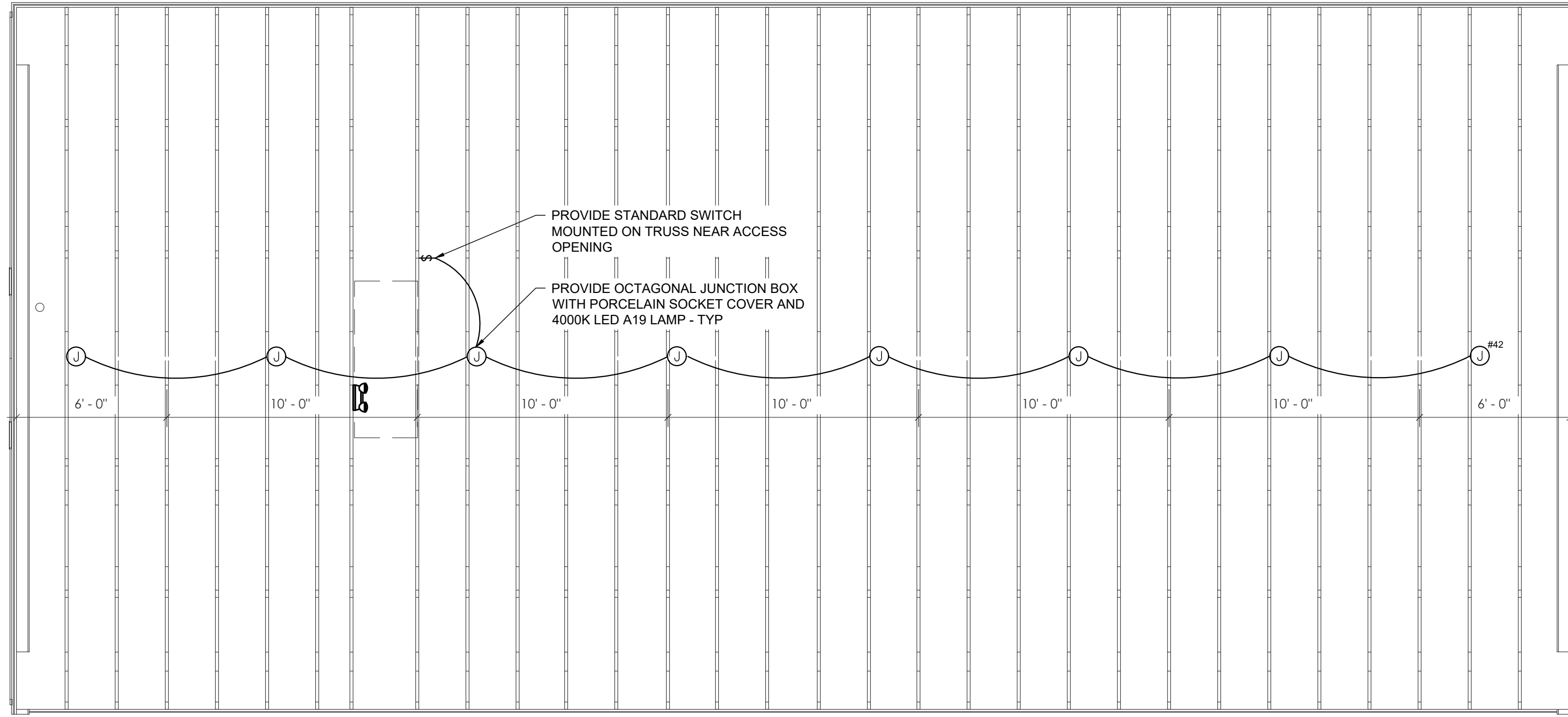
DATE	OCT. 2025		
BY	MJA		
FOR BID			

MDOT CREW QUARTERS  
WALDOBORO, MAINE  
Electrical Plan

SHEET NUMBER

26

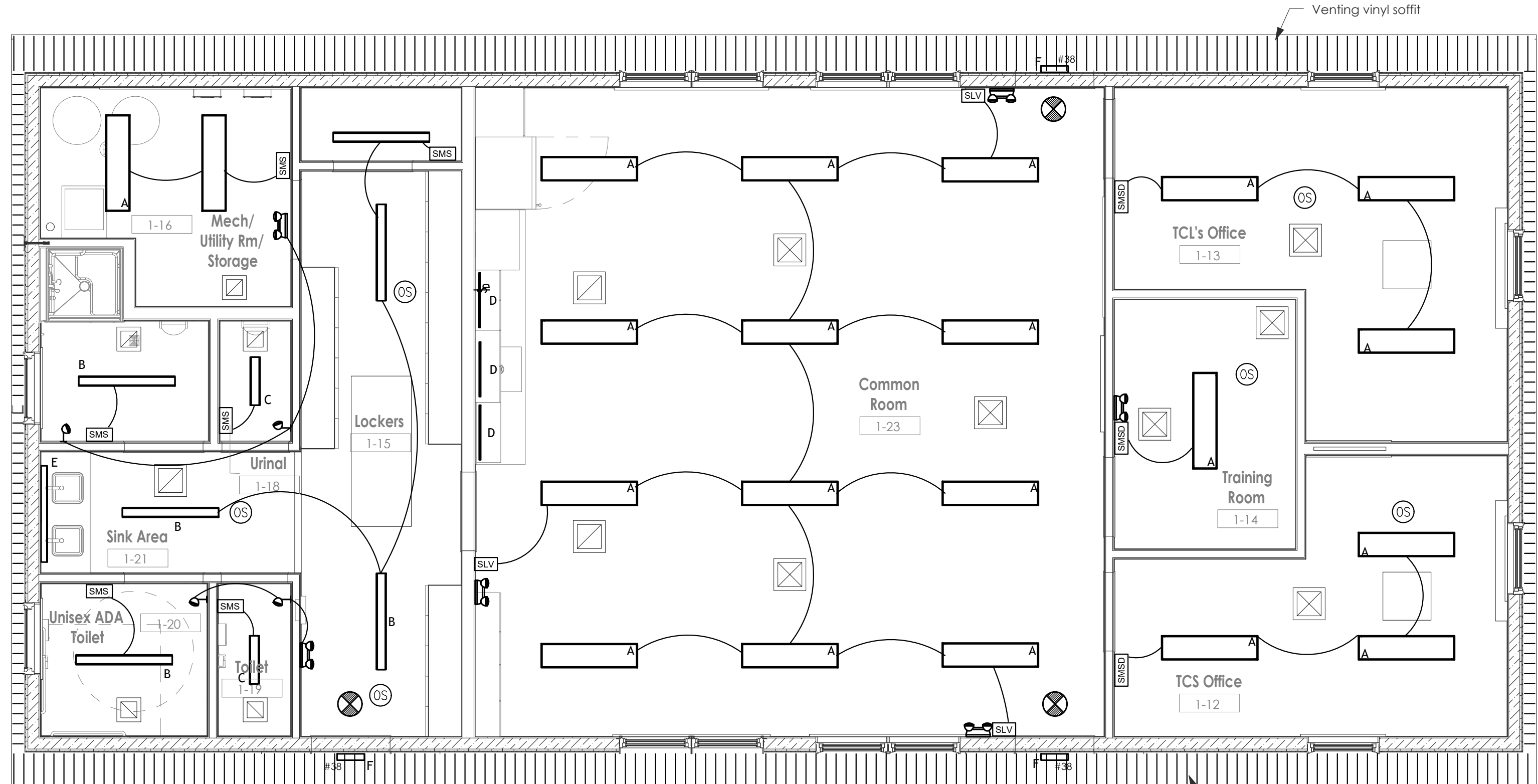
LIGHTING FIXTURE SCHEDULE					
NEW	ORDING INFORMATION	LED INFORMATION	SIZE	FITXURE INFORMATION	
TYPE	MANUFACTURER	MODEL NUMBER	WATTAGE / COLOR TEMP / LUMENS		DESCRIPTION
A	ORACLE LIGHTING	14-OSMT-LED-3400L-DIM10-MVOLT-30K-85-A12	29W / 3000K / 3400 LUMENS	12" W x 4'-0" L x 4 1/4" H	SURFACE MOUNTED 1'x4' LED TROFFER. CONSTRUCTED OF ONE-PIECE RIBBED UNITIZED HOUSING, FROSTED ACRYLIC LENS. ACCESSIBLE AND REMOVEABLE LED LIGHT ENGINE. FINISH: WHITE
B	ORACLE LIGHTING	OLS-CM-LED-4-S-4-1000L-HEX-BK-DIM10-120-30K-90-WH	32.8W / 3000K / 4000 LUMENS	4" W x 4'-0" L x 4.81" H	CEILING MOUNTED 4" WIDE 4' LINEAR GENERAL ILLUMINATION FIXTURE. ONE-PIECE RIGID ALUMINUM EXTRUSION, SMOOTH WHITE EXTRUDED FROSTED LENS WITH HEX CELL LOUVER. FINISH: WHITE
C	ORACLE LIGHTING	OLS-CM-LED-4-S-2-1000L-HEX-BK-DIM10-120-30K-90-WH	16.4W / 3000K / 2000 LUMENS	4" W x 2'-0" L x 4.81" H	SIMILAR TO TYPE B EXCEPT 2' LENGTH.
D	AFX INC.	KNLU22RB	11.8W / 3000K / 955 LUMENS	3" W x 22" L x 5/8" H	SURFACE MOUNTED UNDER CABINET LIGHT FIXTURE. EXTRUDED ALUMINUM HOUSING, WHITE POLYCARBONATE LENS. 12" INTERCONNECT CORD AVAILABLE (XLCC12WH)
E	ORACLE LIGHTING	OLS-WD-LED-4-S-4-750L-HEX-BK-DIM10-120-30K-90-WH	26W / 3000K / 3000 LUMENS	4" W x 4'-0" L x 4.81" H	WALL MOUNTED 4" WIDE 4' LINEAR FIXTURE MOUNTED ABOVE SINK. ONE-PIECE RIGID ALUMINUM EXTRUSION, SMOOTH WHITE EXTRUDED FROSTED LENS WITH HEX CELL LOUVER. FINISH: WHITE
F	BEACON LIGHTING	VPW1-24L-2S-35K8-2-120V-BLT-E	23W / 3000K / 3055 LUMENS	7.96" W x 4.92" H x 5.5" D	LOW PROFILE WALL MOUNTED EXTERIOR WALL PACK. MICROSTRIKE OPTICS, TYPE 2 DISTRIBUTION. PROVIDE WITH EMERGENCY BATTERY. FINISH: TEXTURED BLACK



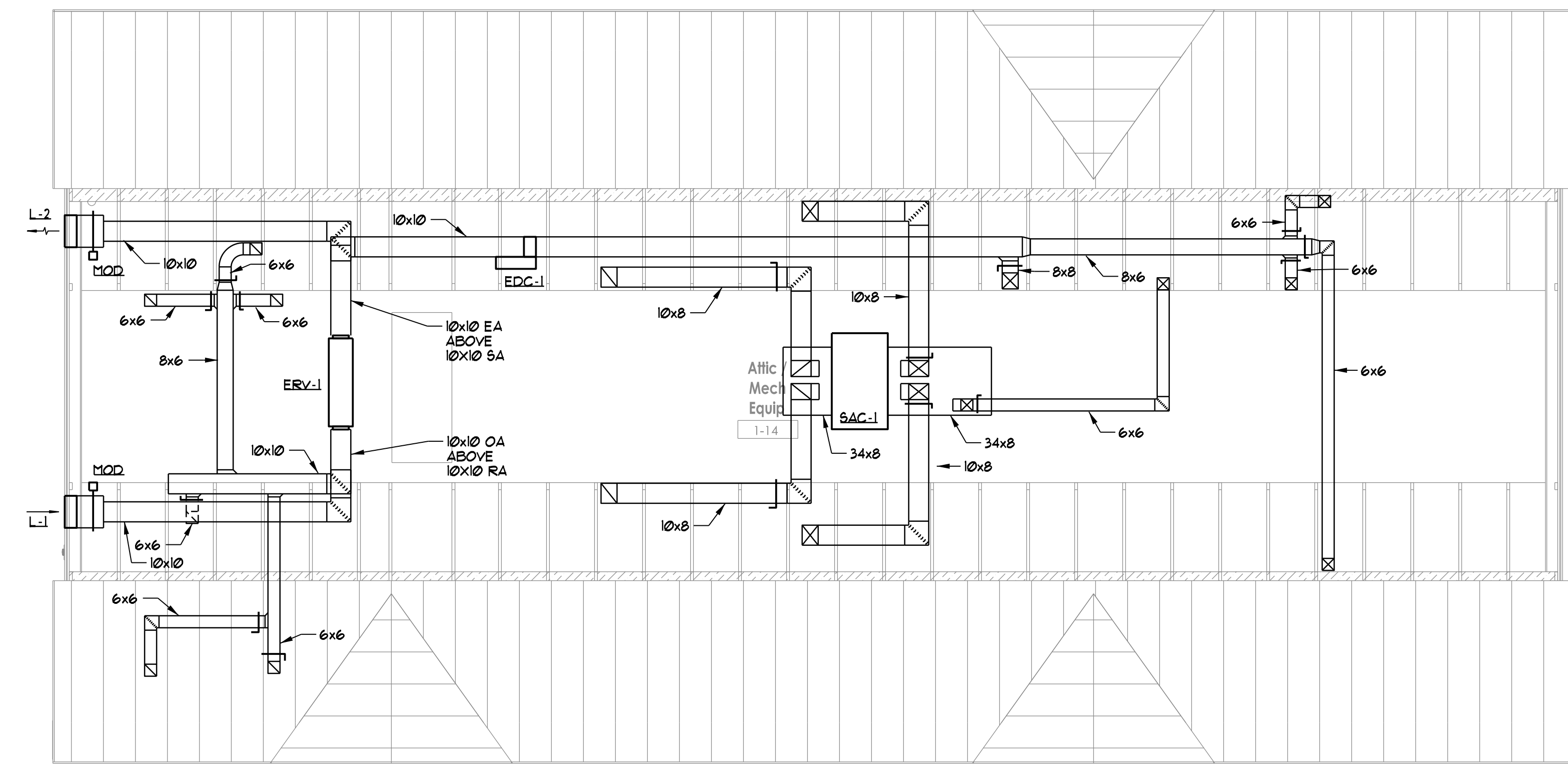
① Attic Lighting Plan  
1/4" = 1'-0"

LIGHTING CONTROLS LEGEND

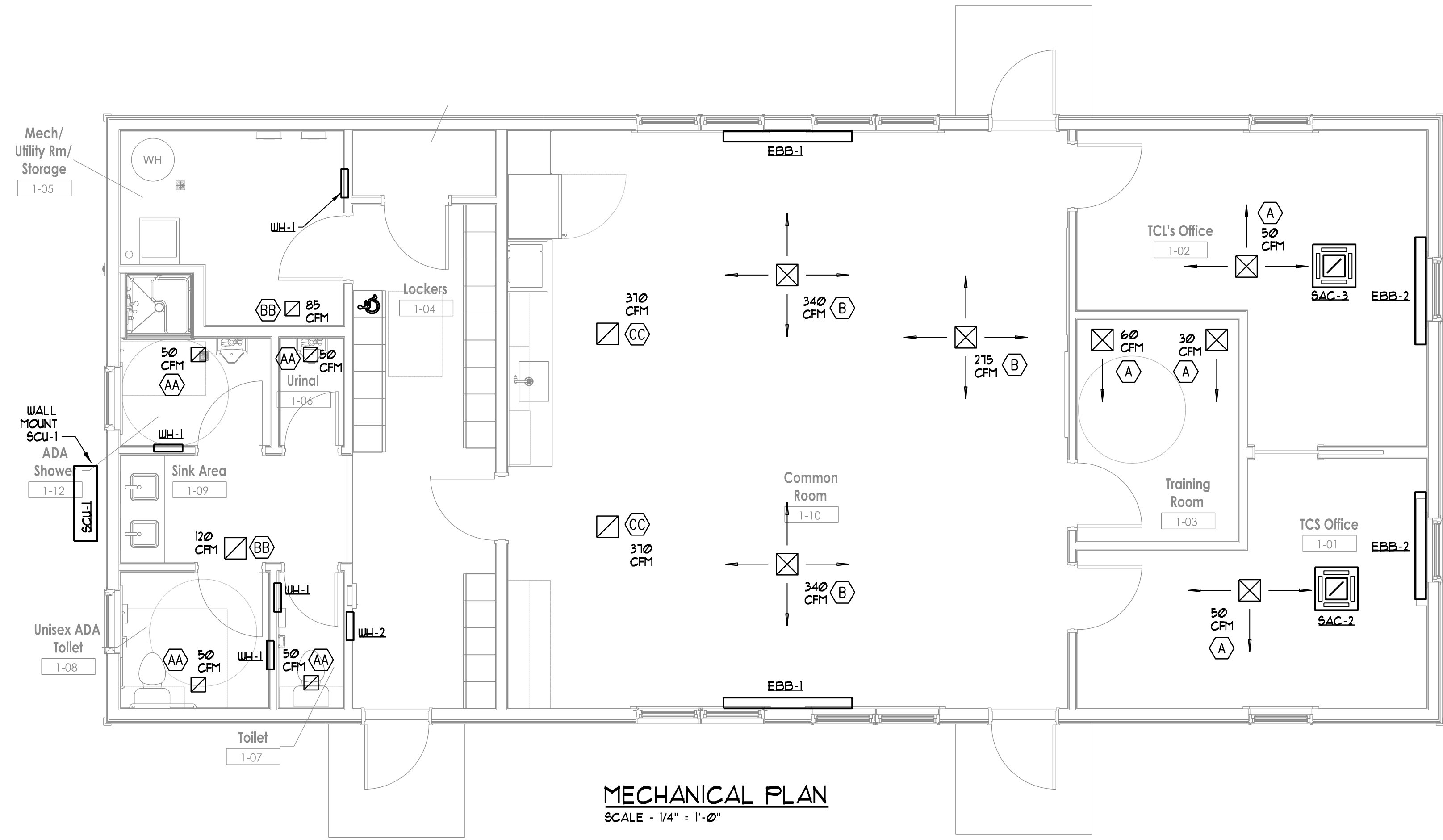
	MOTION SENSOR SWITCH - NX #LHMTS1
	MOTION SENSOR DIMMING SWITCH - NX #LHRDMMTS2
	LOW VOLTAGE SWITCH - NX #NKSIV2-00
	LOW VOLTAGE OCCUPANCY SENSOR - NX #OMINDT2000



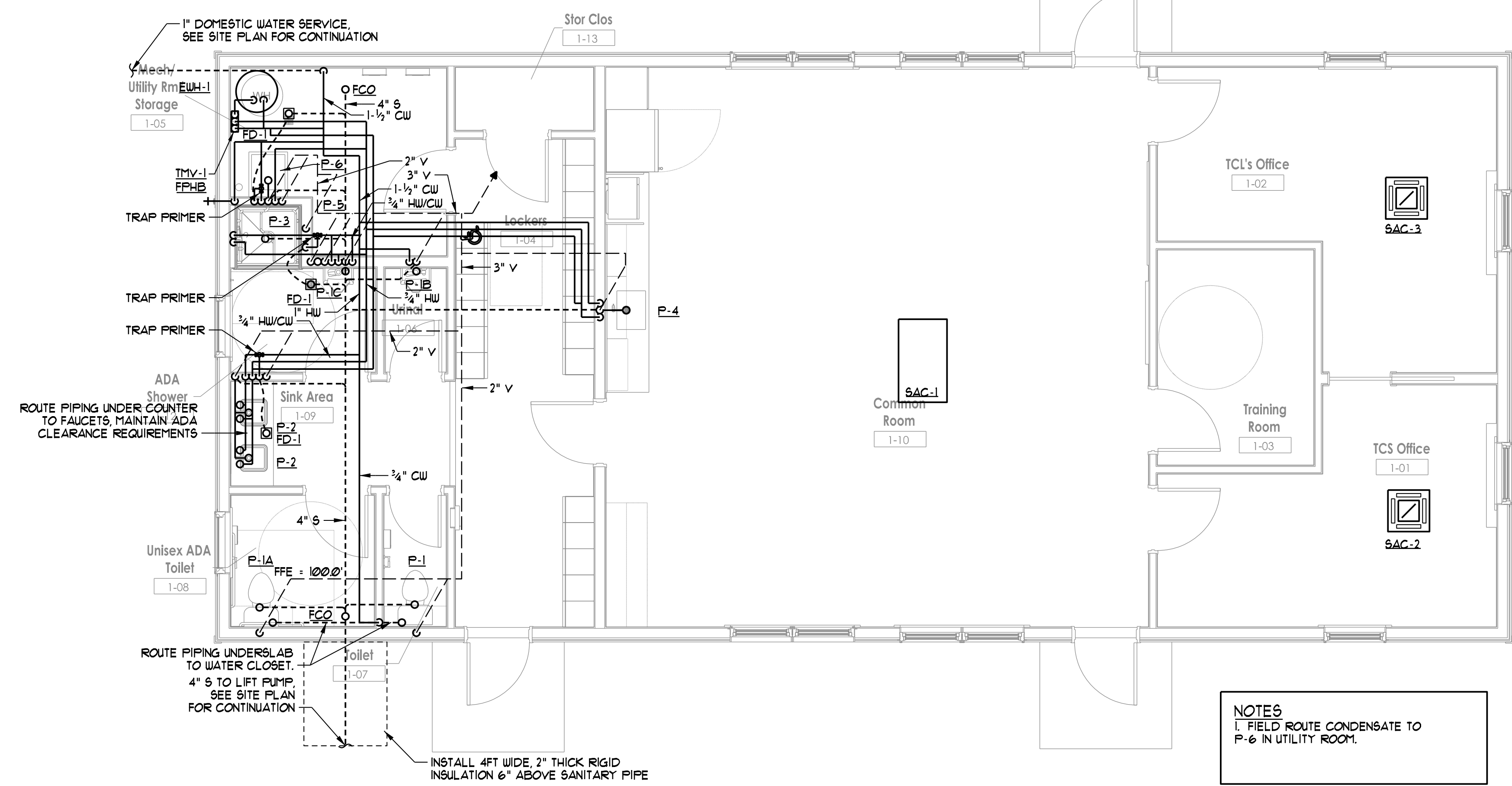
② Lighting Plan  
1/4" = 1'-0"



**ATTIC MECHANICAL PLAN**  
SCALE - 1/4" = 1'-0"



**MECHANICAL PLAN**  
SCALE - 1/4" = 1'-0"



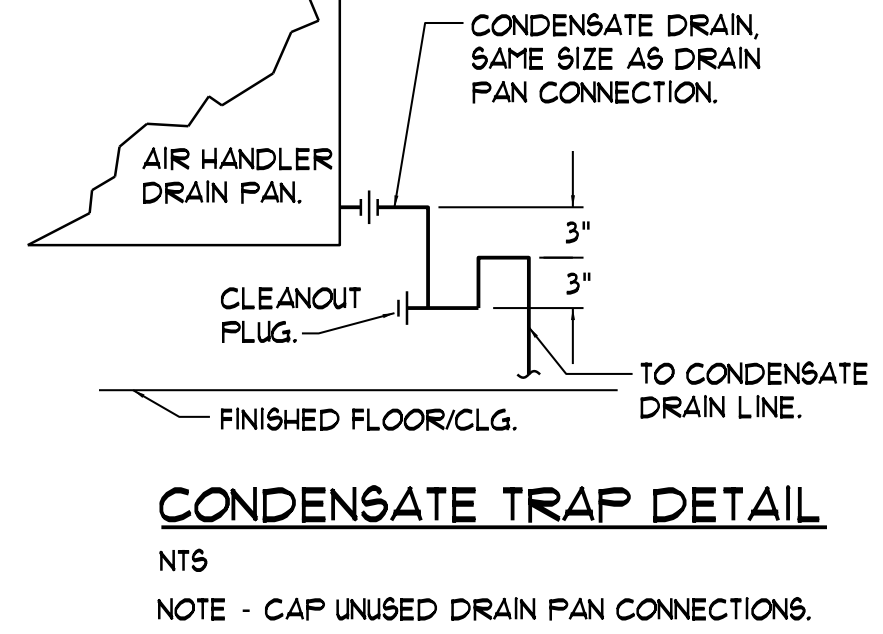
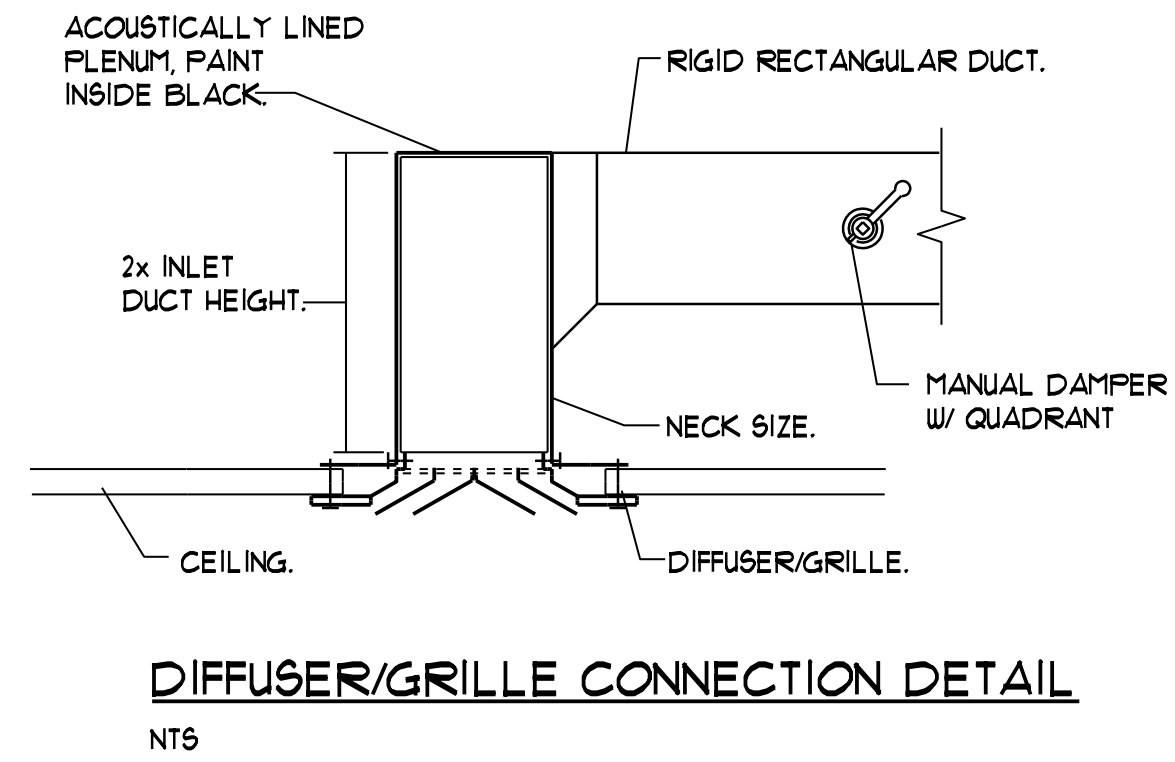
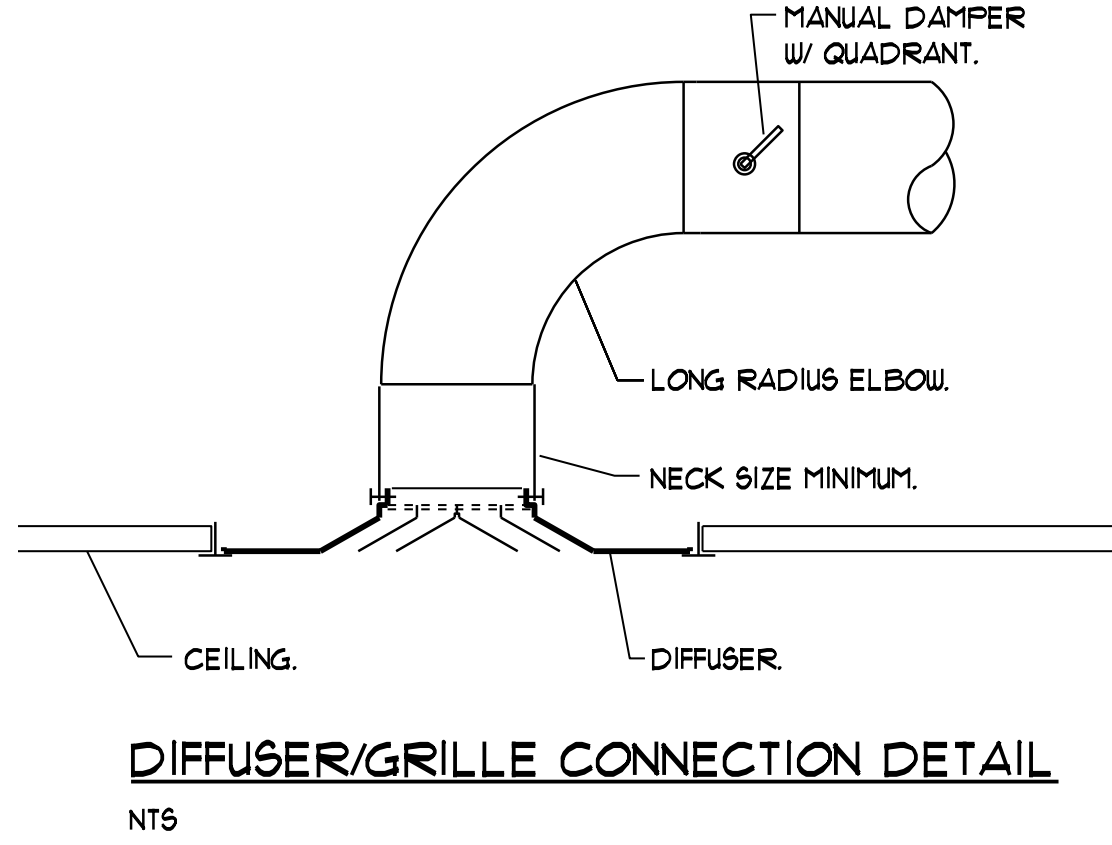
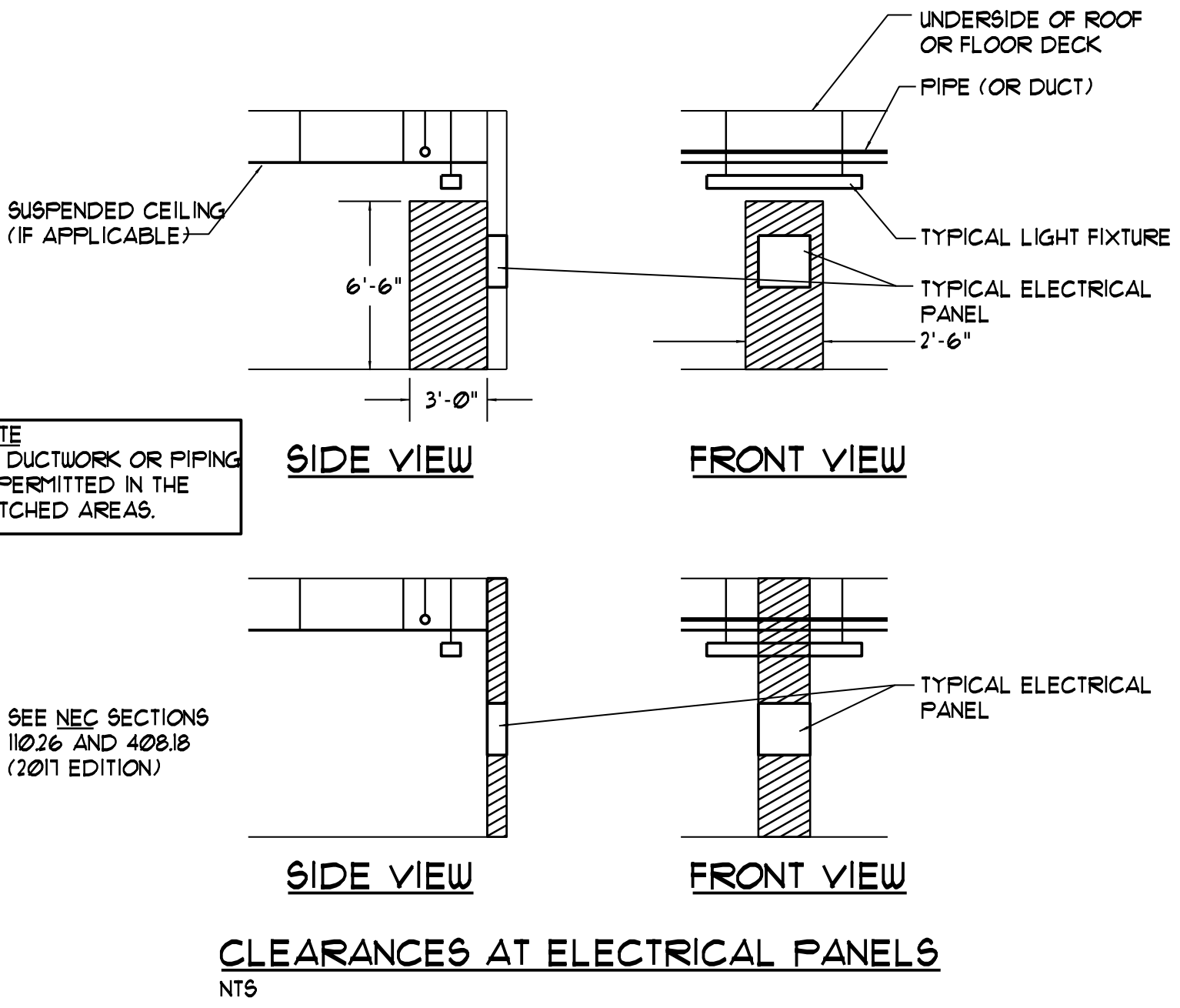
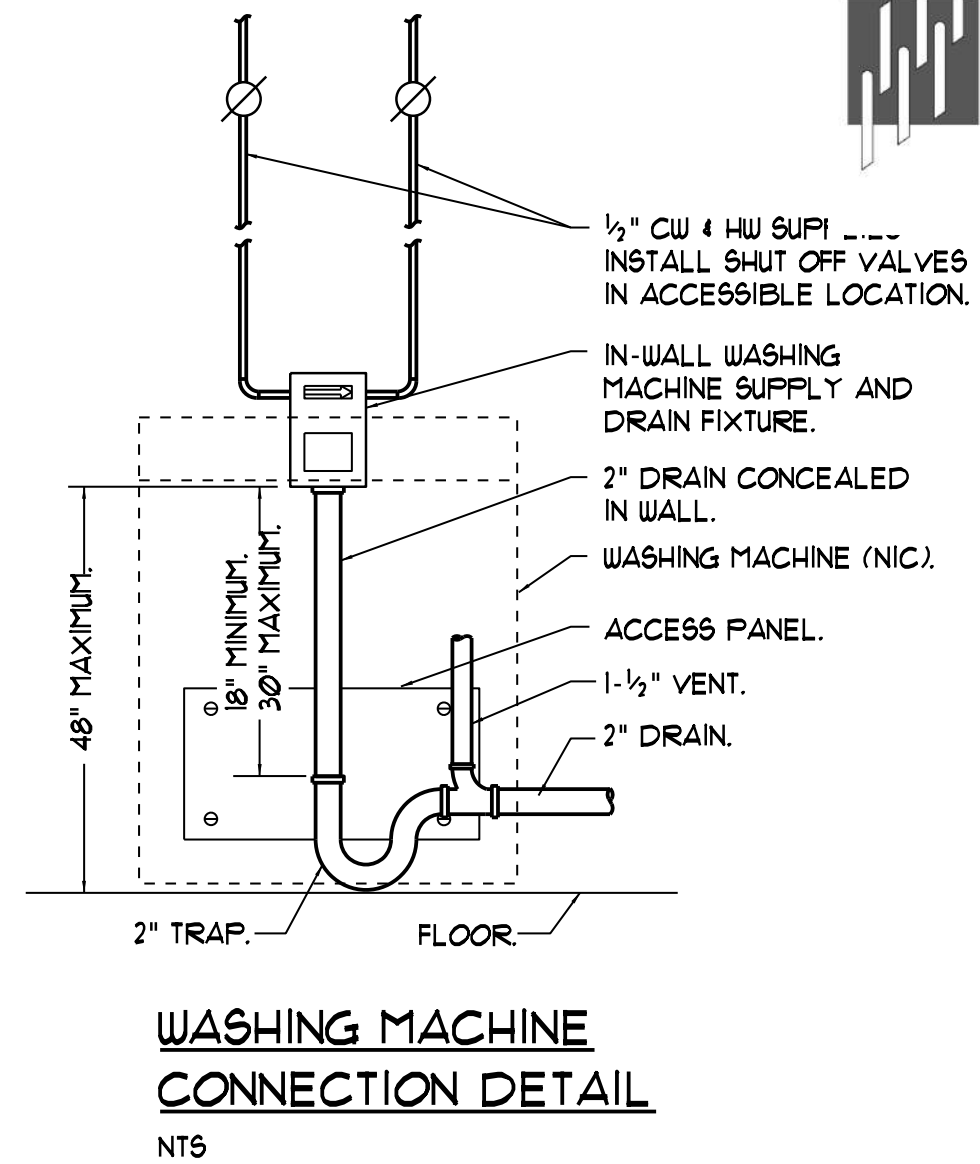
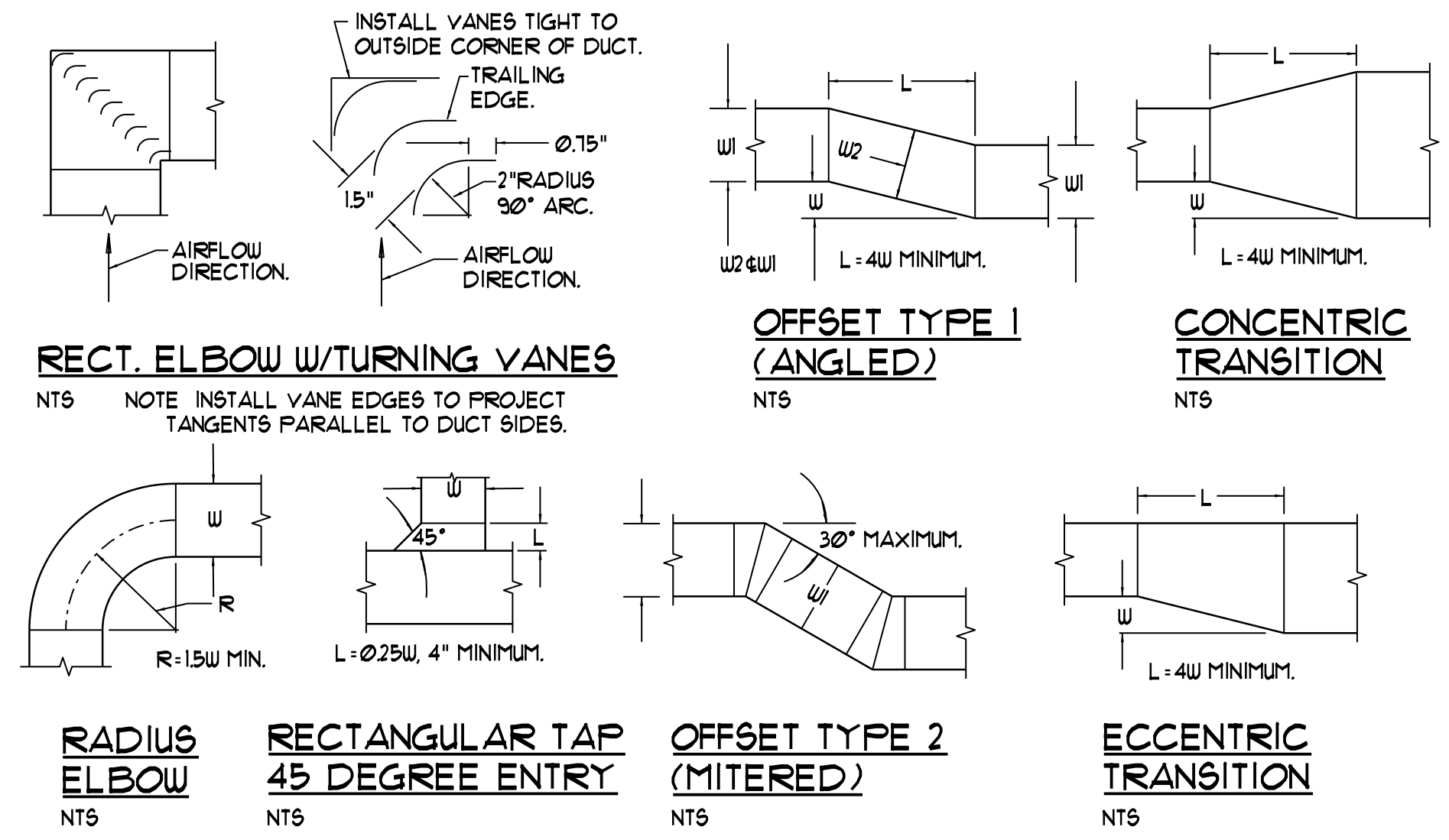
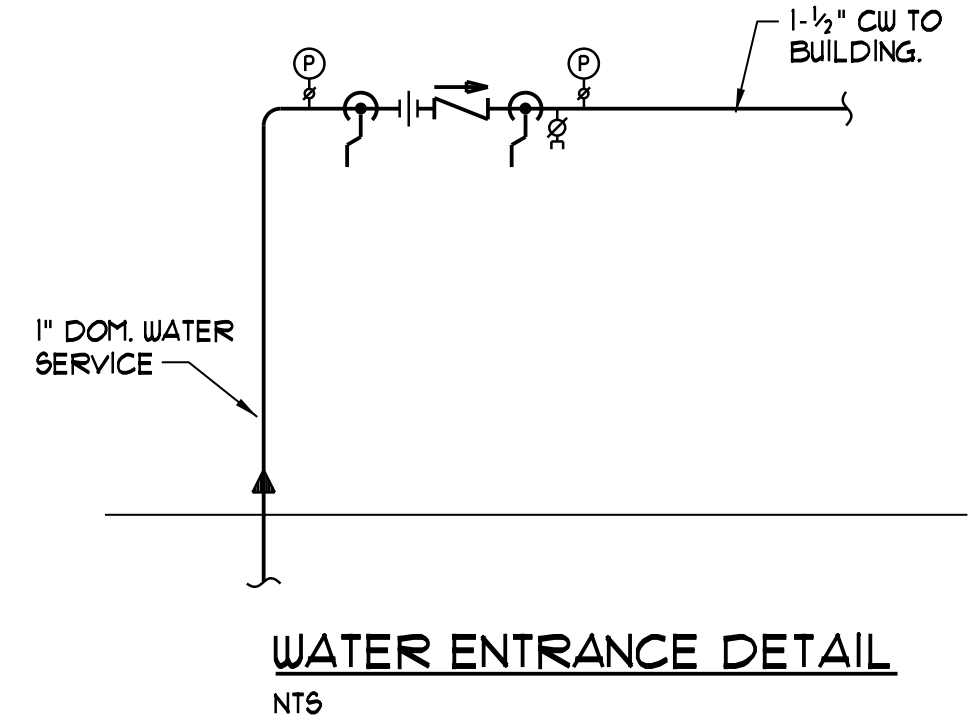
**NOTES**  
1. FIELD ROUTE CONDENSATE TO P-6 IN UTILITY ROOM.

FOR BID	BY	DATE	ME-10546	OCT. 2025
	JMV	OCT. 2025	PE NUMBER	DATE

**MDOT CREW QUARTERS  
WALDOBORO, MAINE  
PLUMBING PLAN**

SHEET NUMBER

DATE	OCT. 2025
BY	JMV
FOR BID	
ME-10546	PE NUMBER
	OCT 2025
	DATE



**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	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
—CA—	COMPRESSED AIR PIPING (CA)	⊘	BALL VALVE	⊕	TSTAT OR SENSOR W/ TAMPERPROOF GUARD	B-*	BOILER TAG	EWB	ENTERING WET BULB	LB	POUNDS
—C—	CONDENSATE DRAIN PIPING (C)	⊘	BALL VALVE	⊕	MANUAL AIR VENT	BD-*	BYPASS DAMPER TAG	EWH-*	ELECTRIC WATER HEATER TAG	LD-*	LINEAR DIFFUSER TAG
—CTR—	COOLING TOWER RETURN PIPING (CTR)	⊘	3/4" BALL VALVE WITH 3/4" HOSE END	⊕	NOTE TAG (NUMBER)	BFP-*	BACKFLOW PREVENTER TAG	EWT	ENTERING WATER TEMPERATURE	LT-HWS/R	LOW TEMPERATURE HOT WATER
—CTS—	COOLING TOWER SUPPLY PIPING (CTS)	⊘	GATE VALVE	⊕	AIR DEVICE TAG (LETTER) WITH CFM	BHP	BRAKE HORSEPOWER	EXG	EXISTING	LRA	LOCKED ROTOR AMPS
—CWR—	CHILLED WATER RETURN PIPING (CWR)	⊘	PRESSURE REDUCING VALVE	⊕	ROOM NUMBER	BTUH	BRITISH THERMAL UNITS PER HOUR	EXH	EXHAUST	LUWC	LOW WATER CUTOUT
—CWS—	CHILLED WATER SUPPLY PIPING (CWS)	⊘	FUSIBLE VALVE	⊕	TURNING VANES	CBD	COUNTER BALANCED DAMPER	FC	FLEXIBLE CONNECTION	LUWT	LEAVING WATER TEMPERATURE
—FOR—	FUEL OIL RETURN PIPING (FOR)	⊘	STRAINER W/BLOWDOWN BALL VALVE	⊕	DUCT W/MANUAL DAMPER	CC-*	COOLING COIL TAG	FCO	FLOOR CLEANOUT	MAX	MAXIMUM
—FOS—	FUEL OIL SUPPLY PIPING (FOS)	⊘	2-WAY CONTROL VALVE	⊕	DUCT W/FLEXIBLE CONNECTION (FC)	CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER	MBH	THOUSANDS OF BTU PER HOUR
—G—	GAS PIPING (G)	⊘	3-WAY CONTROL VALVE	⊕	LAGGED DUCT	CHLR-*	CHILLER TAG	FD-*	FLOOR DRAIN TAG	MCA	MINIMUM CIRCUIT AMPACITY
—HWR—	HOT WATER RETURN PIPING (HWR)	⊘	3-WAY CONTROL VALVE	⊕	DUCT W/ACOUSTIC LINING	CO	CLEANOUT	FLA	FULL LOAD AMPS	MIN	MINIMUM
—HWS—	HOT WATER SUPPLY PIPING (HWS)	⊘	4-WAY CONTROL VALVE (TOP VIEW)	⊕	DUCT W/SQUARE-TO-ROUND TRANSITION	CONV-*	CONVECTOR TAG	FOR	FUEL OIL RETURN	NC	NOISE CRITERION
—RL—	REFRIGERANT LIQUID PIPING (RL)	⊘	4-WAY CONTROL VALVE (TOP VIEW)	⊕	FLEXIBLE DUCT	CUH-*	CABINET UNIT HEATER TAG	FOS	FUEL OIL SUPPLY	NIC	NOT IN CONTRACT
—RG—	REFRIGERANT GAS PIPING (RG)	⊘	MOTOR OPERATED DAMPER	⊕	MOTOR OPERATED DAMPER	CP-*	CIRCULATING PUMP TAG	FPFB	FROST PROOF HOSE BIBB	NTS	NOT TO SCALE
---	SANITARY PIPING BELOW FLOOR (SAN)	⊘	AIRFLOW OUT	⊕	AIRFLOW OUT	CT-*	COOLING TOWER TAG	FFM	FEET PER MINUTE	OA	OUTSIDE AIR
---	SANITARY PIPING ABOVE FLOOR (SAN)	⊘	AIRFLOW IN	⊕	AIRFLOW IN	Cv	VALVE COEFFICIENT	FS-*	FLOOR SINK TAG	OBD	OPPOSED BLADE DAMPER
---	SANITARY VENT PIPING	⊘	DIAMETER OR FLAT OVAL	⊕	DIAMETER OR FLAT OVAL	CW	COLD WATER	FT	FEET	O.D.	OUTSIDE DIAMETER
---	RAINWATER LEADER ABOVE SLAB (RWL)	⊘	FIRE DAMPER	⊕	FIRE DAMPER	CHWS/R	CHILLED WATER SUPPLY AND RETURN	FTR-*	FINTUBE RADIATION TAG	OED	OPEN ENDED DUCT
---	COLD WATER PIPING (CW)	⊘	ROUND OR FLAT OVAL DUCT DOWN	⊕	ROUND OR FLAT OVAL DUCT DOWN	DB	DRY BULB	GA	GAGE	OFRUL	OVERFLOW RAINWATER LEADER
---	HOT WATER PIPING (HW)	⊘	ROUND OR FLAT OVAL DUCT UP	⊕	ROUND OR FLAT OVAL DUCT UP	dB RE	DECIBELS RELATIVE TO	GAL	GALLONS	OFWH-*	OIL FIRED WATER HEATER TAG
---	RECIRCULATED HOT WATER PIPING (RHW)	⊘	SUPPLY DIFFUSER	⊕	SUPPLY DIFFUSER	DC	DOUBLE CHECK	GFWH-*	GAS FIRED WATER HEATER TAG	OFRD	OVERFLOW ROOF DRAIN
---	PIPE CAP	⊕	RETURN GRILLE	⊕	RETURN GRILLE	DCA	DOUBLE CHECK ATMOSPHERIC	GPH	GALLONS PER HOUR	OPD	OVERCURRENT PROTECTIVE DEVICE
---	DIRECTION OF FLUID FLOW	⊕	STEAM TRAP	⊕	STEAM TRAP	DEG F	DEGREES FAHRENHEIT	GPM	GALLONS PER MINUTE	P-*	PLUMBING FIXTURE TAG
---	ELBOW UP	⊕	WATER HAMMER ARRESTOR	⊕	WATER HAMMER ARRESTOR	DIA	DIAMETER	GUH-*	GAS UNIT HEATER TAG	PENETN	PENETRATION
---	ELBOW DOWN	⊕	ABBREVIATION	⊕	ABBREVIATION	DIW	DOWN IN WALL	HC-*	HEATING COIL TAG	FF-*	PADDLE FAN TAG
---	PIPE TEE UP	⊕	A.A.V.	⊕	AUTOMATIC AIR VENT	DN	DOWN	HP	HORSEPOWER	FSIA	POUNDS PER SQUARE INCH ABSOLUTE
---	PIPE TEE DOWN	⊕	AD	⊕	ACCESS DOOR	EA	EXHAUST AIR	HRV-*	HEAT RECOVERY VENTILATOR TAG	PSIG	POUNDS PER SQUARE INCH GAGE
---	PIPE REDUCER	⊕	AFF	⊕	ABOVE FINISHED FLOOR	EAT	ENTERING AIR TEMPERATURE	HW	HOT WATER	PVC	POLYVINYL CHLORIDE (PIPE)
---	PIPE WITH GUIDE	⊕	AHU-*	⊕	AIR HANDLING UNIT TAG	EAT	ENTERING AIR TEMPERATURE	HWS/R	HOT WATER SUPPLY AND RETURN	RA	RETURN AIR
---	PIPE WITH ANCHOR	⊕	AMS	⊕	AIR FLOW MONITORING STATION	EDB	ENTERING DRY BULB	I-B-R	INSTITUTE OF BOILER AND	RD	ROOF DRAIN
---	BUTTERFLY VALVE	⊕	AMPS	⊕	AMPERES	EDC-*	ELECTRIC DUCT COIL TAG	IFWH-*	INDIRECT FIRED WATER HEATER TAG	RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS
---	OS 4 Y GATE VALVE	⊕	AMPS	⊕	AMPERES	EER	ENERGY EFFICIENCY RATIO	IN	INCHES	RFM-*	RADIANT FLOOR MANIFOLD TAG
---	BACKFLOW PREVENTER (BFP)	⊕	AP	⊕	ACCESS PANEL	EP-*	EXHAUST FAN TAG	IV-*	INTAKE VENT TAG	RG-*	RETURN GRILLE TAG
---	CHECK VALVE	⊕	APD	⊕	AIR PRESSURE DROP	EG-*	EXHAUST GRILLE TAG	L-*	LOUVER TAG	RHW	RECIRCULATED HOT WATER
---	BALANCING VALVE (ADJUSTABLE)	⊕	AS-*	⊕	AIR SEPARATOR TAG	ER-*	EXHAUST REGISTER TAG	LAT	LEAVING AIR TEMPERATURE	RLA	RUNNING LOAD AMPS
---	AUTOMATIC FLOW CONTROL VALVE	⊕	ATC	⊕	AUTOMATIC TEMPERATURE CONTROL	ESP	EXTERNAL STATIC PRESSURE			RPM	REVOLUTIONS PER MINUTE
						ET-*	EXPANSION TANK TAG			RPS	REVOLUTIONS PER SECOND
										RPZ	REDUCED PRESSURE ZONE
										RR-*	RETURN REGISTER TAG
										RTU	ROOM TEMPERATURE SENSOR
										RV	RELIEF VALVE
										RWL	RAINWATER LEADER
										SA	SUPPLY AIR
										SAN	SANITARY (DRAIN & WASTE)
										SD	SMOKE DAMPER
										SEER	SEASONAL ENERGY EFFICIENCY RATIO
										SF	SUPPLY FAN
										SG-*	SUPPLY GRILLE TAG
										SP	STATIC PRESSURE
										SP-*	SUMP PUMP TAG
										SR-*	SUPPLY REGISTER TAG
										SQFT	SQUARE FEET
										ΔT	TEMPERATURE DIFFERENTIAL
										TEMP.	TEMPERATURE
										TCP	TEMPERATURE CONTROL PANEL
										TMV-*	THERMOSTATIC MIXING VALVE TAG
										TSP	TOTAL STATIC PRESSURE
										TYP	TYPICAL
										UH-*	UNIT HEATER TAG
										UN.O.	UNLESS NOTED OTHERWISE
										VAV-*	VARIABLE AIR VOLUME BOX TAG
										VB	VACUUM BREAKER
										VFD	VARIABLE FREQUENCY INVERTER DRIVE
										VTR	VENT THRU ROOF
										V/PH/Hz	VOLTS/PHASES/HERTZ
										WB	WET BULB
										WCO	WALL CLEANOUT
										WG	WATER GAGE
										WPD	WATER PRESSURE DROP
										WSA	WIRE SIZING AMPS
										WTD	WATER TEMPERATURE DROP
										W	WATER
										WTH	WITH
										ZD-*	ZONE DAMPER TAG

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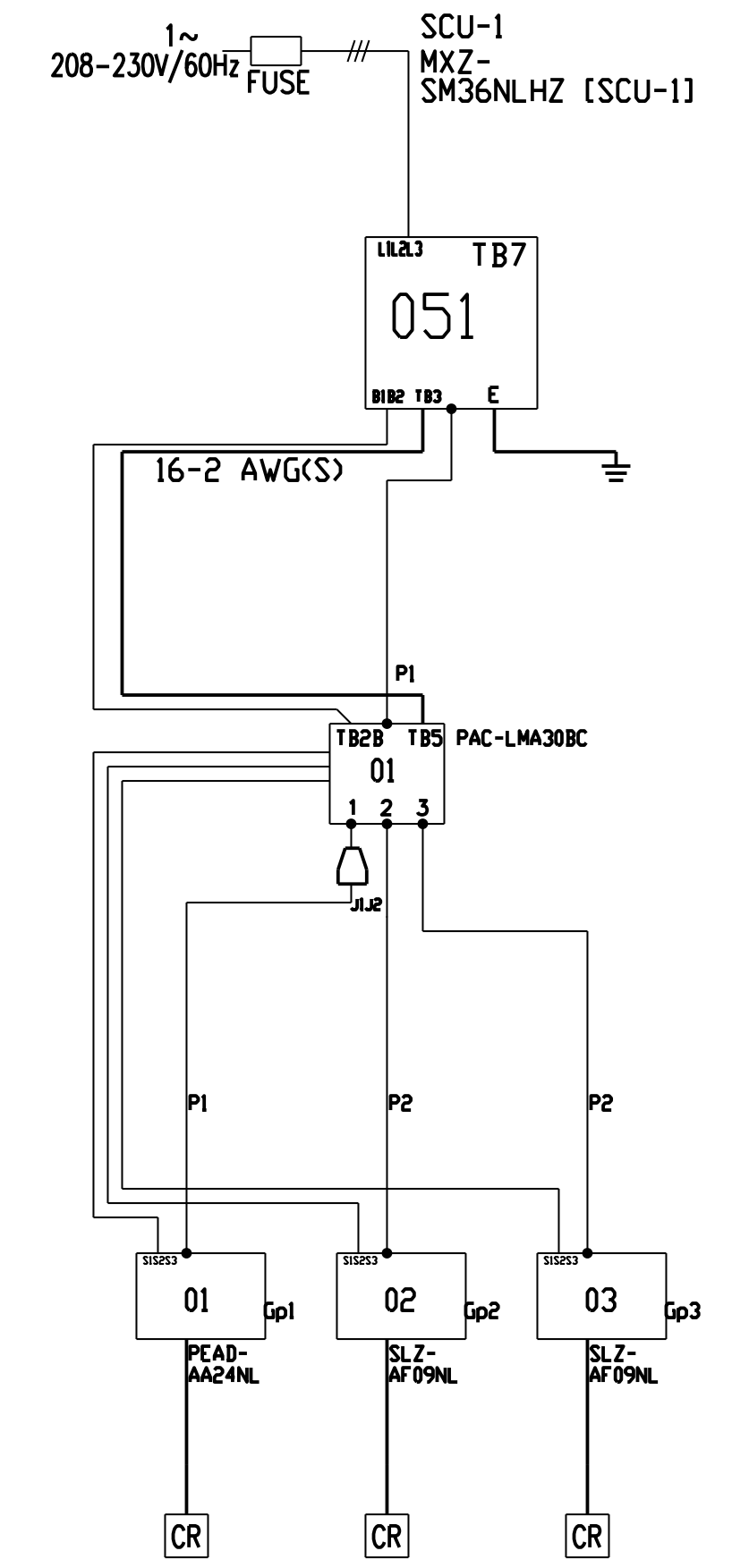
DIAGRAM DISPLAY	SYMBOL DESCRIPTION	CONT.No	PAGE
---	POWER WIRE		
---	CONTROL WIRE		
---	REF. PIPE		

CITY MULTI SYSTEM SCHEMATIC DWG.

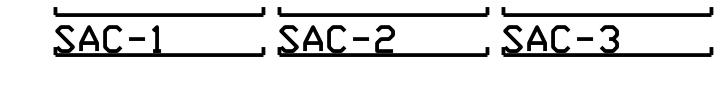
This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record. Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.  
1.25mm<sup>2</sup>(16 AWG) : 1.25mm<sup>2</sup>(16 AWG) or more. 0.75mm<sup>2</sup>(20 AWG) : between 0.5mm<sup>2</sup>(24 AWG) and 0.75mm<sup>2</sup>(20 AWG).

PIPING AND CONTROLS

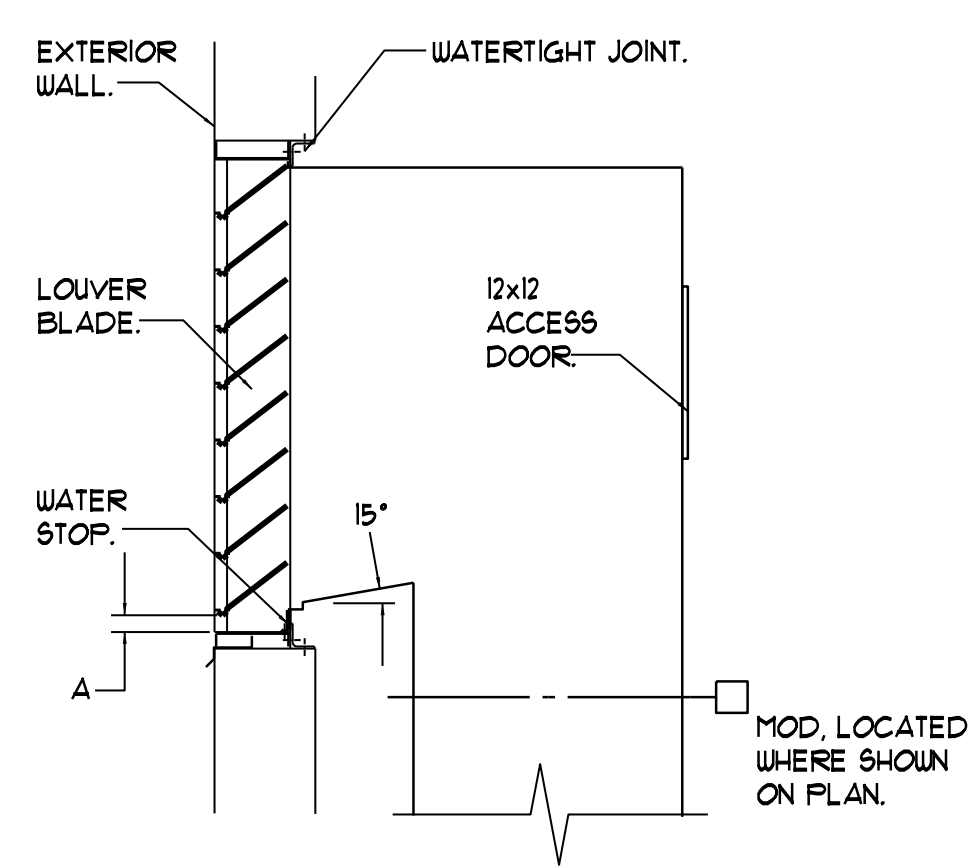
SYMBOL	BRANCH PIPE MODEL NAME
J1	PAC-S076RJ-E
J2	PAC-493PI
SYMBOL	LIQUID PIPE GAS PIPE SIZE
P1	3/8 / 5/8
P2	1/4 / 3/8
SYMBOL	MODEL NUMBER
CR	PC-Y1532AU-J



Diamond System Builder  
s.w: 5.9.0.18  
d.b: 5.9.0.12  
6/2/2025  
1:59 PM

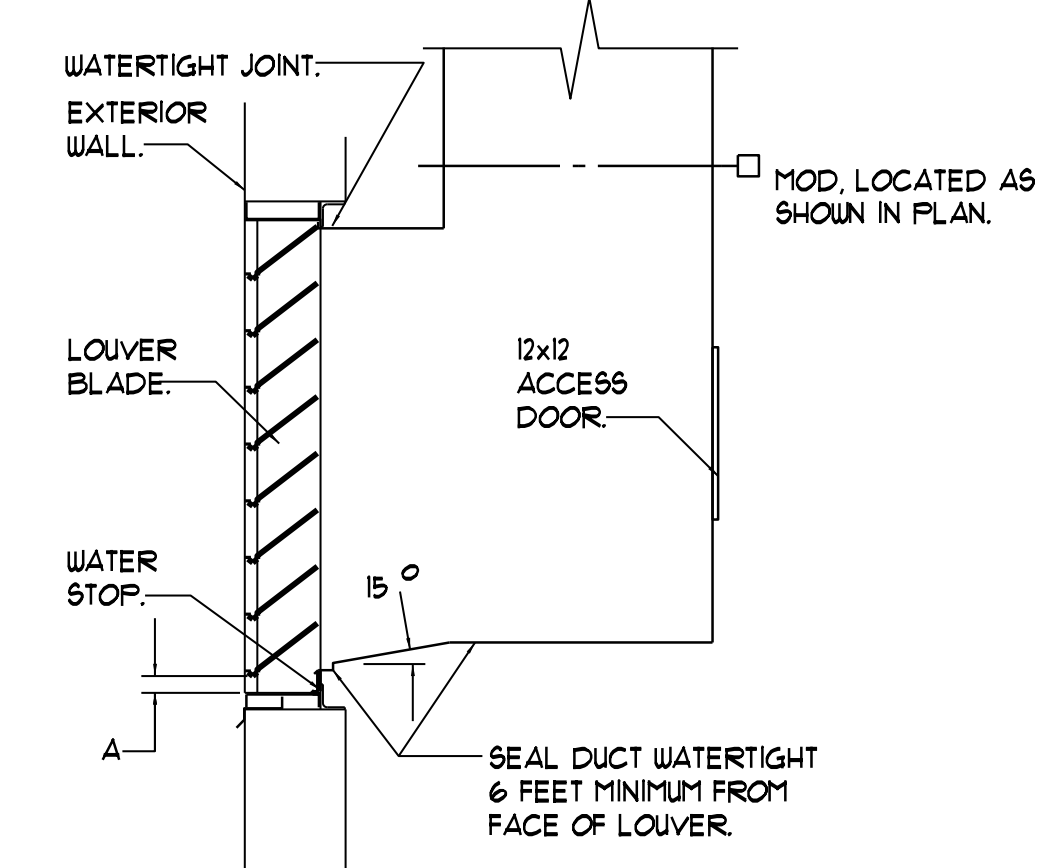


REMARKS  
Comments:



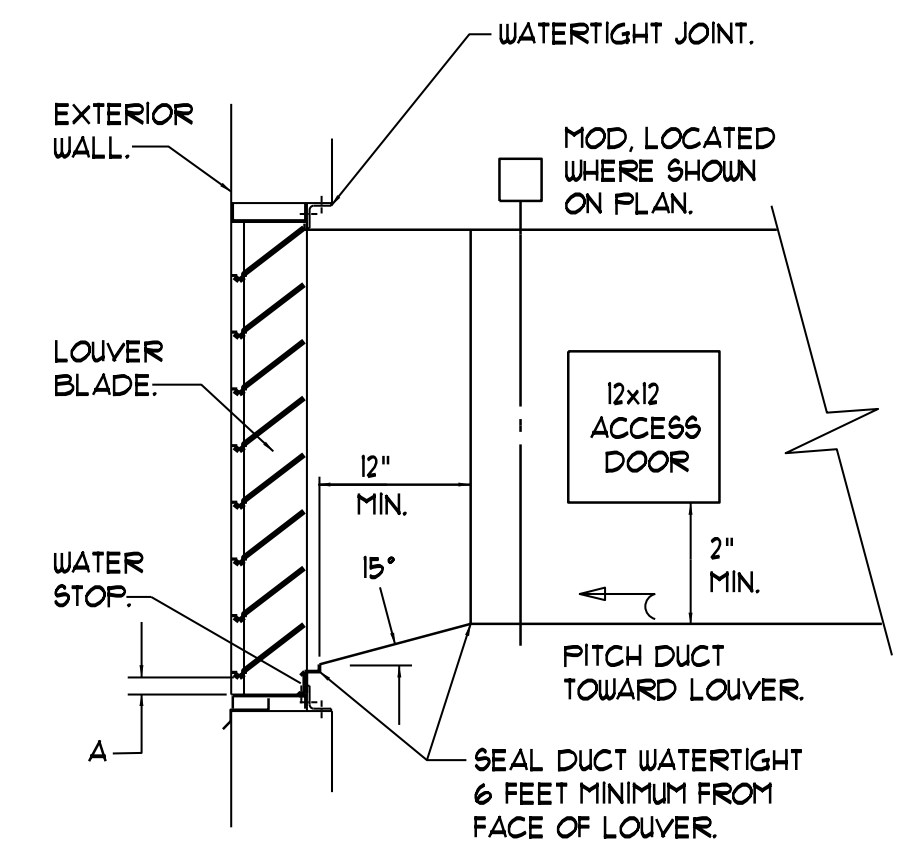
LOUVER DETAIL WITH DUCT FROM BELOW

NTS  
NOTE IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



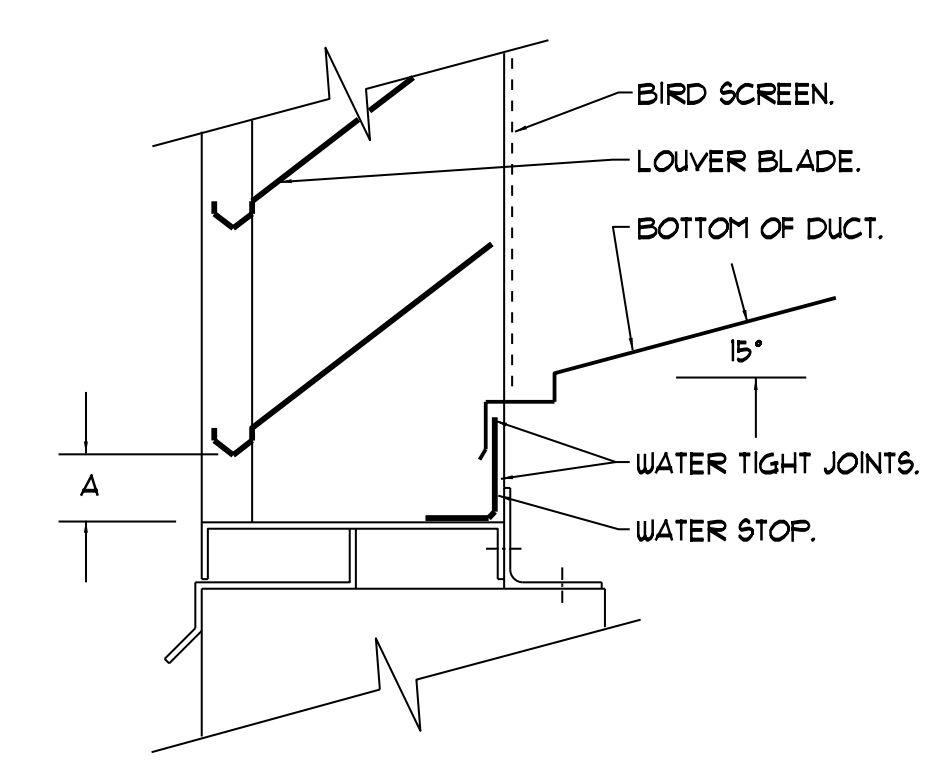
LOUVER DETAIL WITH DUCT FROM ABOVE

NTS  
NOTE IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



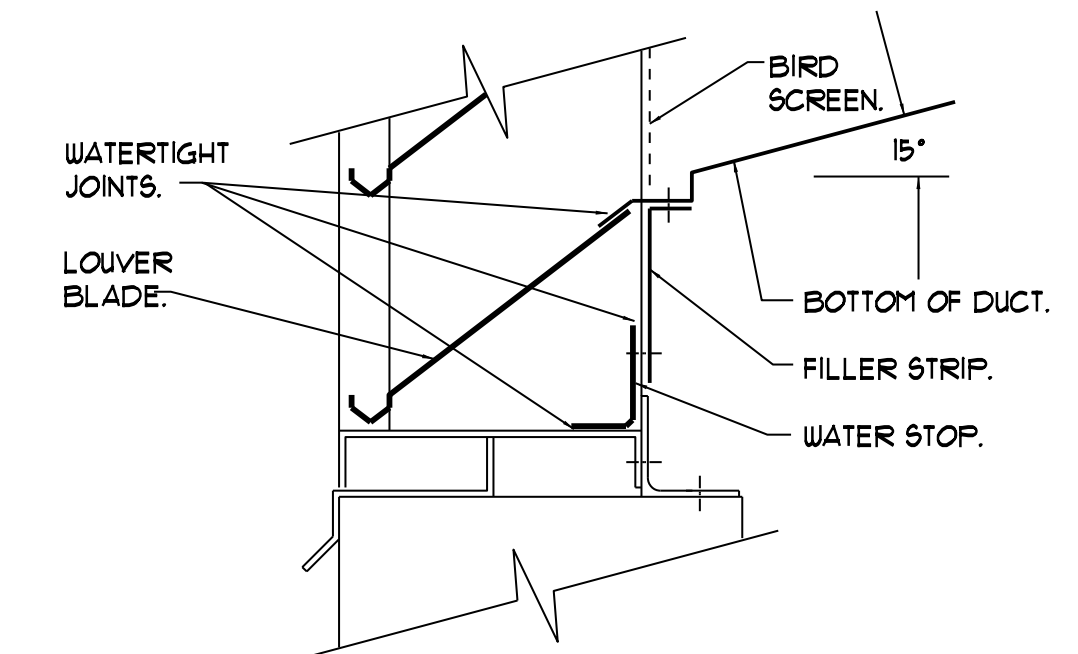
LOUVER DETAIL WITH HORIZONTAL DUCT

NTS  
NOTE IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



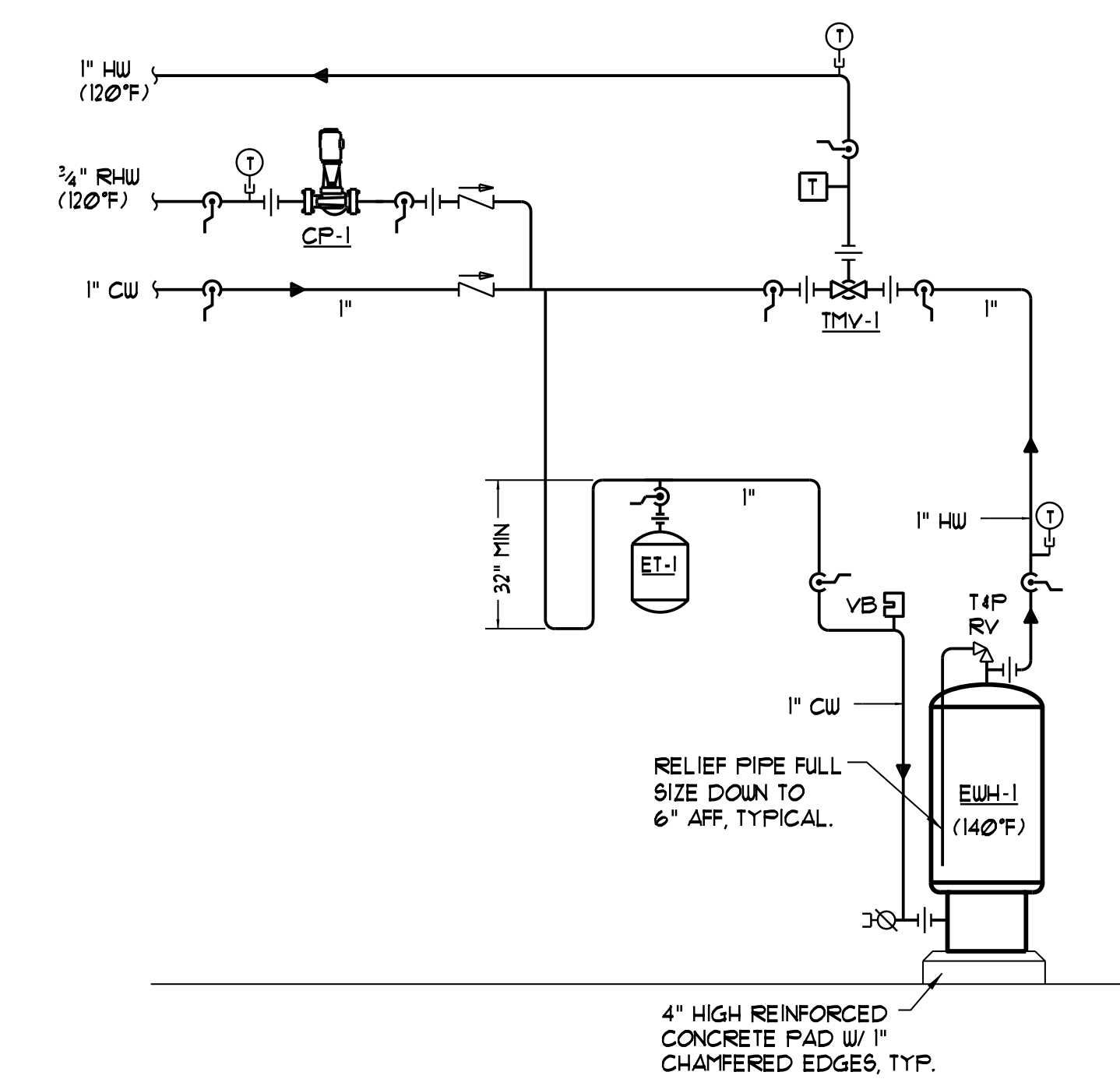
LOUVER CONNECTION DETAIL

NTS  
NOTE TYPICAL FOR LOUVERS AND BLOCK VENTS. IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL AT RIGHT (LOUVERS ONLY).

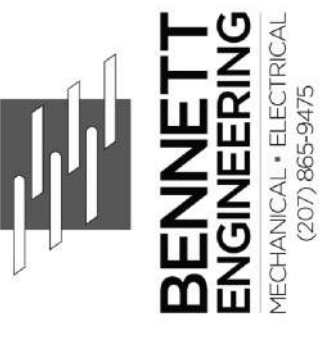


MODIFIED LOUVER DETAIL

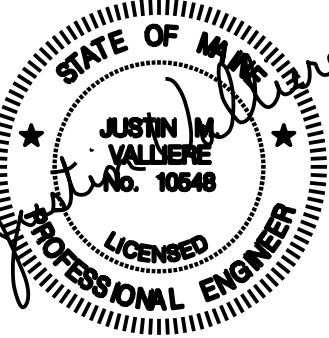
NTS



DOMESTIC HOT WATER PIPING SCHEMATIC  
NTS



STATE OF MAINE DOT  
CREW QUARTERS  
WALDOBORO, MAINE  
WIN 028559.00



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ME-10546	PE NUMBER
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MDOT CREW QUARTERS  
WALDOBORO, MAINE  
MECHANICAL  
SCHEDULES

SHEET NUMBER

PUMP PERFORMANCE SCHEDULE													
TAG	FLOW RATE (GPM)	HEAD (FT.WG)	RPM	Impeller Dia	Eff %	ELECTRICAL REQUIREMENTS					BASIS OF DESIGN: TACO		
						HP	BHP	VFD	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
CP-1	1.0	15.0	3250	-	-	1/8	-	N	1.4	115/1/60	DHW RECIRC	CARTRIDGE	009SS

1. CP-1 SHALL BE STAINLESS STEEL CONSTRUCTION

THERMOSTATIC MIXING VALVE PERFORMANCE SCHEDULE								
TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	W.P.D. (PSIG)	SETPOINT (DEG F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN: SYMMONS	
							ARRANGMENT	MODEL
TMV-1	7.0	3/4"	3/4"	10.0	115	-	WALL	7-230

LOUVER PERFORMANCE SCHEDULE								
TAG	AIRFLOW (CFM)	MODULE SIZE W X H	AIR VELOCITY (FPM)	FREE AREA (SQFT)	MAX STATIC PRESSURE (IN. WC)	BASIS OF DESIGN: RUSKIN		
						SERVICE	MODEL	REMARKS
L-1	420	16"x16"	575	0.73	0.1	ERV-1 INTAKE	ELF6375DX	NOTES: ALL
L-2	420	16"x16"	575	0.73	0.1	ERV-1 EXHAUST	ELF6375DX	NOTES: ALL

NOTES:

HYBRID HEAT PUMP WATER HEATER PERFORMANCE SCHEDULE							
TAG	STORAGE (GAL)	FIRST HOUR RATING (GAL)	DHW STORAGE TEMP (deg F)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN: A.O. SMITH	
				WATTS	V/PH/Hz	SERVICE	MODEL
EW-H-1	46.0	65.0	140.0	4500	240/1/60	DOM. HW	HPTA-50

EXPANSION TANK PERFORMANCE SCHEDULE									
TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN ACCEPT. VOLUME (GAL)	MAX. WORK'G TEMPERATURE (DEG F)	MAX. WORK'G PRESSURE (PSIG)	WET WEIGHT (LBS)	BASIS OF DESIGN: TACO		
							MOUNTING	SERVICE	MODEL
ET-1	6.6	4.0	1.9	240	150	90	FLOOR	DOMESTIC HW	PAX-25

NOTE: ALL TANKS SHALL BE ASME RATED CONSTRUCTION.

PRESSURE TANK PERFORMANCE SCHEDULE									
TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN ACCEPT. VOLUME (GAL)	MAX. WORK'G TEMPERATURE (DEG F)	MAX. WORK'G PRESSURE (PSIG)	WET WEIGHT (LBS)	BASIS OF DESIGN: AMTROL		
							MOUNTING	SERVICE	MODEL
PT-1	158.0	102.0	102.0	240	125	1950	FLOOR	DOMESTIC WATER	WX-451C

NOTES: ALL TANKS SHALL BE ASME RATED CONSTRUCTION.

PRESSURIZE TANK TO SYSTEM PRESSURE UNDER NO FLOW CONDITIONS

ELECTRIC DUCT HEATING COIL PERFORMANCE SCHEDULE													
TAG	AIRFLOW (CFM)	MAX A.P.D. (IN.WG.)	DIMENSION (WxH, INCHES)	VELOCITY (FPM)	E.A.T. (DEG F)	L.A.T. (DEG F)	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN: RENEWAIRE		
							KW	V/PH/Hz	MCA	MOPD	SERVICE	MODEL	NOTES
EDC-1	420	0.05	10"x10"	605	45.0	75.0	4.0	240/1/60	20.8	25.0	ERV-1 HEAT	EK	ALL

NOTES:

1. PROVIDE WITH SCR CONTROLLER w/THERMOSTAT AND SENSOR, AIRFLOW PROVING SWITCH, FAN INTERLOCK AND DISCONNECT.
2. REFER TO MECHANICAL PLANS FOR CONTROL BOX OFFSET REQUIREMENTS.

MULTI-SPLIT HEAT PUMP OUTDOOR UNIT PERFORMANCE SCHEDULE																			
TAG	NOMINAL COOLING (MBH)*	NOMINAL HEATING (MBH)*	CORRECTED COOLING (MBH)**	CORRECTED HEATING (MBH)**	EER2 / COP	REFRIGERANT		MINIMUM COOLING TEMP( DEG F)	MINIMUM HEATING TEMP( DEG F)	FOOTPRINT DIM (INCHES) (HxWxD)	OPERATING WEIGHT (LBS)	ELECTRICAL REQUIREMENTS			REFRIGERANT LINES		SOUND (DBA)	BASIS OF DESIGN: MITSUBISHI	
						REFRIGERANT	CHARGE (LBS)					MCA	MOCQ	V/PH/Hz	LIQUID (IN)	GAS (IN)		SERVICE	MODEL
SCU-1	36.0	42.0	34.8	39.7	12.7 / 3.7	R-454B	22.6	23.0	-13.0	53 x 42 x 14	300	51.0	86.0	230/1/60	3/8	5/8	53	BUILDING	MXZ-SM36NLHZ

\* NOMINAL HEATING AND COOLING AT AHRI CONDITIONS OF 80°F DB / 67°F WB (INDOOR) AND 95°F OUTDOOR FOR COOLING AND 70°F DB / 60°F WB (INDOOR AND 47°F OUTDOOR FOR HEATING  
 \*\* CORRECTED COOLING AS PART OF THE SPECIFIC COMPLETE SYSTEM INCLUDING LINE LENGTHS AND AT OUTDOOR CONDITIONS OF 95°F DB AND INDOOR CONDITIONS OF 75°F DB / 63.9°F WB  
 \*\*\* CORRECTED HEATING AS PART OF THE SPECIFIC COMPLETE SYSTEM INCLUDING LINE LENGTHS AND WITH A 5% DEFROST AND AT OUTDOOR CONDITIONS OF -13.0°F DB AND INDOOR CONDITIONS OF 70°F DB  
 1. PROVIDE AND INSTALL WITH STAND AND SNOW/HAIL GUARDS.

SPLIT - SYSTEM HEAT PUMP INDOOR UNIT PERFORMANCE SCHEDULE (FIRST & SECOND FLOORS)																			
TAG	CORRESPONDING OUTDOOR UNIT	NOMINAL COOLING (MBH)*	NOMINAL HEATING (MBH)*	CORRECTED COOLING (MBH)**	CORRECTED HEATING (MBH)**	MAX AIRFLOW (CFM)	COND. DRAIN (IN)	REFRIGERANT PIPING			SOUND RATING (DB)	WEIGHT (LBS)	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN: MITSUBISHI		
								LIQUID (IN)	GAS (IN)				MCA	MOCQ	V/PH/Hz	POWERED FROM OUTDOOR UNIT	SERVICE	ARRANGEMENT	MODEL
SAC-1	SCU-1	24.0	24.0	19.8	18.7	740	1-1/4"	3/8"	5/8"	35	70	1	15	208/1/60	YES	MEETING/TRAINING	CONCEALED DUCTED	PEAD-AA24NL	
SAC-2		9.0	11.0	7.4	10.5	300	1-1/4"	1/4"	3/8"	31	36	1	15	208/1/60	YES	TCS OFFICE	4-WAY CEILING	SLZ-AF09NL	
SAC-3		9.0	11.0	7.4	10.5	300	1-1/4"	1/4"	3/8"	31	36	1	15	208/1/60	YES	TCL OFFICE	4-WAY CEILING	SLZ-AF09NL	

\* NOMINAL HEATING AND COOLING AT AHRI CONDITIONS OF 80°F DB / 67°F WB (INDOOR) AND 95°F OUTDOOR FOR COOLING AND 70°F DB / 60°F WB (INDOOR AND 47°F OUTDOOR FOR HEATING  
 \*\* CORRECTED COOLING AS PART OF THE SPECIFIC COMPLETE SYSTEM INCLUDING LINE LENGTHS AND AT OUTDOOR CONDITIONS OF 95°F DB AND INDOOR CONDITIONS OF 75°F DB / 63.9°F WB  
 \*\*\* CORRECTED HEATING AS PART OF THE SPECIFIC COMPLETE SYSTEM INCLUDING LINE LENGTHS AND WITH A 5% DEFROST AND AT OUTDOOR CONDITIONS OF -13.0°F DB AND INDOOR CONDITIONS OF 70°F DB  
 NOTE - PROVIDE ALL UNITS WITH CONDENSATE PUMPS

ENERGY RECOVERY VENTILATOR PERFORMANCE SCHEDULE																											
TAG	AIR STREAM	DUCT CONNECTIONS		UNIT AIRFLOW					ENERGY RECOVERY - WINTER					ENERGY RECOVERY - SUMMER					HEATING COIL	COOLING COIL	ELECTRICAL REQUIREMENTS			WEIGHT (LBS)	BASIS OF DESIGN: RENEWAIRE		NOTES
		ENTERING	LEAVING	CFM	E.S.P. (INWC)	T.S.P. (INWC)	HP	BHP	E.D.B (F)	E.W.B (F)	L.D.B (F)	L.W.B (F)	EFF. %	E.D.B (F)	E.W.B (F)	L.D.B (F)	L.W.B (F)	EFF %			V/PH/Hz	MCA	MOP		SERVES	MODEL	
ERV-1	SUPPLY	END	END	420	0.5	--	0.23	0.23	-20.0	-20.5	45.1	37.1	72.6 SENS	89.0	73.0	78.9	67.5	72.6 SENS	EDC-1	-	240/1/60	2.6	15.0	175	BUILDING VENTILATION	HE07-JINV	ALL
	EXHAUST	END	END	420	0.5	--	0.23	0.23	70.0	51.4	-	-	72.4 TOT	75.0	62.5	-	-	55.0 TOT									

NOTE:

1. PROVIDE WITH FUSED DISCONNECT, 2" MERV 13 FILTERS AND PREMIUM PACKAGED CONTROLS WITH ADJUSTABLE TIMECLOCK.

PLUMBING FIXTURE CONNECTION SCHEDULE						
TAG	DESCRIPTION	SAN	VENT	CW	HW	FIXTURE MODEL
P-1	TT WATER CLOSET	3"	2"	1/2"	-	AMERICAN STANDARD CADET PRO W/BEMIS 1280SLOW SEAT
P-1A	ADA TT WATER CLOSET	3"	2"	1/2"	-	AMERICAN STANDARD CADET PRO W/BEMIS 1280SLOW SEAT
P-1B	WALL HUNG URINAL	2"	2"	3/4"	-	AMERICAN STANDARD WASHBROOK W/SLOAN ROYAL 186 0.125GPF FLUSH VALVE
P-1C	ADA WALL HUNG URINAL	2"	2"	3/4"	-	AMERICAN STANDARD WASHBROOK W/SLOAN ROYAL 186 0.125GPF FLUSH VALVE
P-2	ADA COUNTERTOP LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD RONDALYN W/ MONTERREY 0.5GPM, 4" CENTERSET FAUCET
P-3	ADA 36" SHOWER	2"	1-1/2"	1/2"	1/2"	AQUATIC 1363BFRF 1/4" SEAT AND GRAB BARS, SYMMONS S-9803-PLR ADA SHOWER VALVE
P-4	ADA DOUBLE BOWL KITCHEN SINK	2"	2"	1/2"	1/2"	ELKAY ELUHAD191655PD W/ AMERICAN STANDARD COLONY PRO GOOSENECK FAUCET
P-5	WASHING MACHINE BOX	2"	2"	1/2"	1/2"	GUY GRAY #82048 W/WATER HAMMER ARRESTORS
P-6	UTILITY SINK	3"	2"	3/4"	3/4"	FIAT FL1 W/LEGS AND FIAT A1 FAUCET
FD-1	FLOOR DRAIN	3"	2"	-	-	WATTS FD-100A
FPBH	FREEZE PROOF HOSE BIB	-	-	3/4"	-	WOODFORD MODEL 65

NOTES:

1. MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2".
2. PROVIDE TRAP PRIMERS ON FLOOR DRAINS, CONNECT TO NEAREST FIXTURE.

ELECTRIC WALL HEATER SCHEDULE											
TAG	MOUNTING	WATTS	MAX BTUH	CFM	ELECTRICAL POWER			MTG HT AFF (IN)	BASIS OF DESIGN: MESTEK QMARK		
					AMPS	MOCQ	V/PH/Hz		LOCATION	MODEL	REMARKS
WH-1	RECESSED	1,500	5,100	50	12.5	-	120/1/60	12"	MULTIPLE	GFR1500T2F	NOTES: NONE
WH-2	SURFACE	1,500	5,100	50	12.5	-	120/1/60	12"	MULTIPLE	GFR1500T2F	NOTES: ALL

NOTES:

1. PROVIDE WITH SURFACE MOUNTING FRAME.
2. PROVIDE WITH OPTIONAL THERMOSTAT

REGISTERS, GRILLES AND DIFFUSERS SCHEDULE									
TAG	MAX CFM	MODULE SIZE W X H	NECK SIZE (INCHES)	MAX STATIC PRESSURE (IN. WC)	SOUND (NC)	ARRANGEMENT	BASIS OF DESIGN: PRICE INDUSTRIES		
							MODEL	REMARKS	
A	60	-	6 x 6	0.02	15		H4002	NOTES: ALL	
B	340	-	12 x 12	0.03	15		H4002	NOTES: ALL	
AA	50	-	6 x 6	0.01	15		RHD	NOTES: ALL	
BB	120	-	8 x 8	0.01	15		RHD	NOTES: ALL	
CC	370	-	12 x 12	0.02	20		RHD	NOTES: ALL	

NOTES:

1. PROVIDE ALL REGISTERS, GRILLES AND DIFFUSERS WITH OPPOSED BLADE DAMPERS

ELECTRIC BASEBOARD PERFORMANCE SCHEDULE									
TAG	OUTPUT (MBH)	LENGTH (FEET)	MTG. HT. AFF (IN)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN: MESTEK QMARK		
				AMPS	WATTS	V/PH/Hz	SERVICE	MODEL	
EBB-1	4.2	5.0	-	10.4	1250	120/1/60	SUPPLEMENT HEAT	QMKC2515W	
EBB-2	3.4	4.0	-	8.3	1000	120/1/60	SUPPLEMENT HEAT	QMKC2514W	

PROVIDE WITH RELAY FOR USE AS SECOND STAGE HEAT WITH LOW VOLTAGE THERMOSTAT