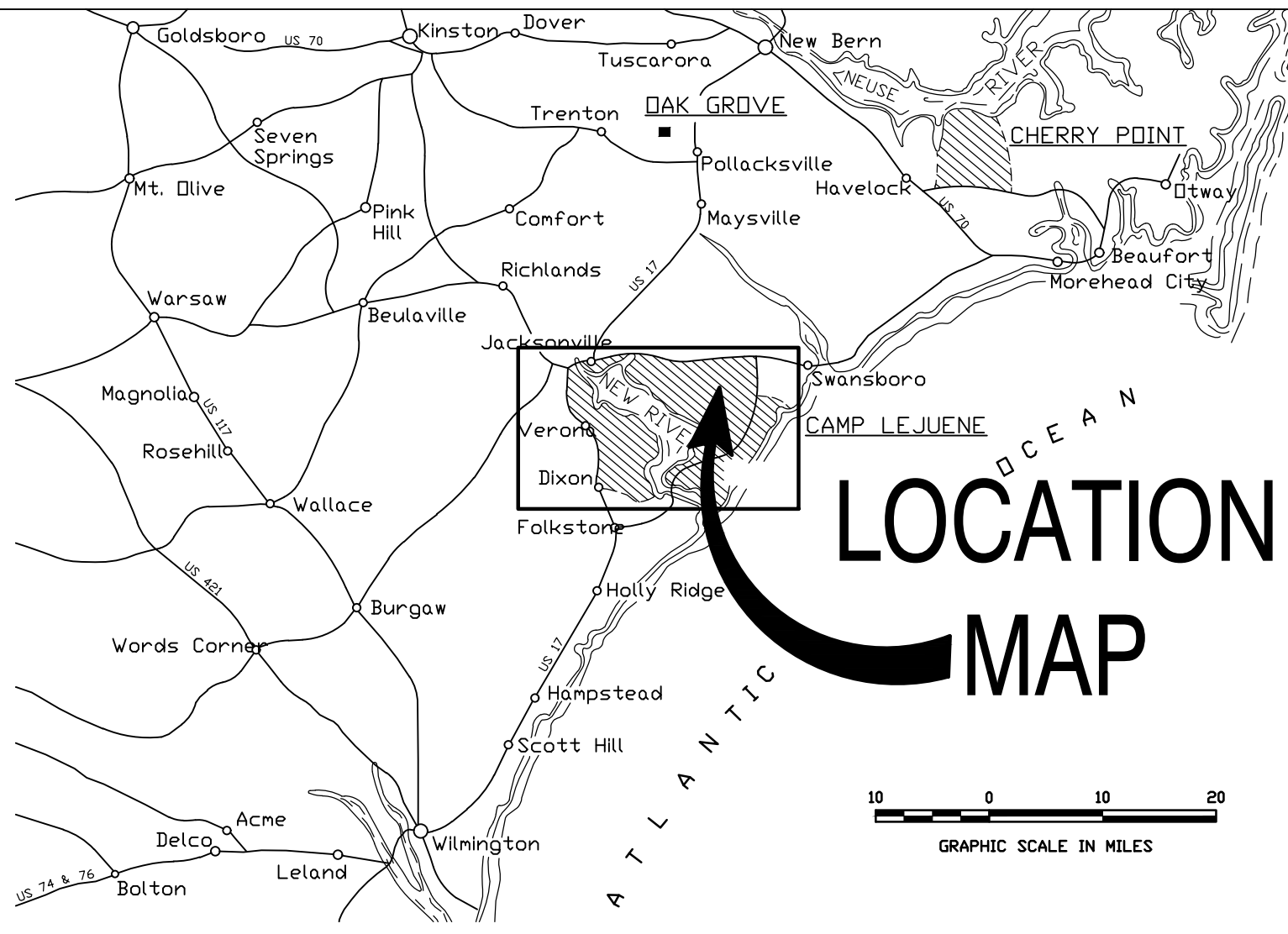
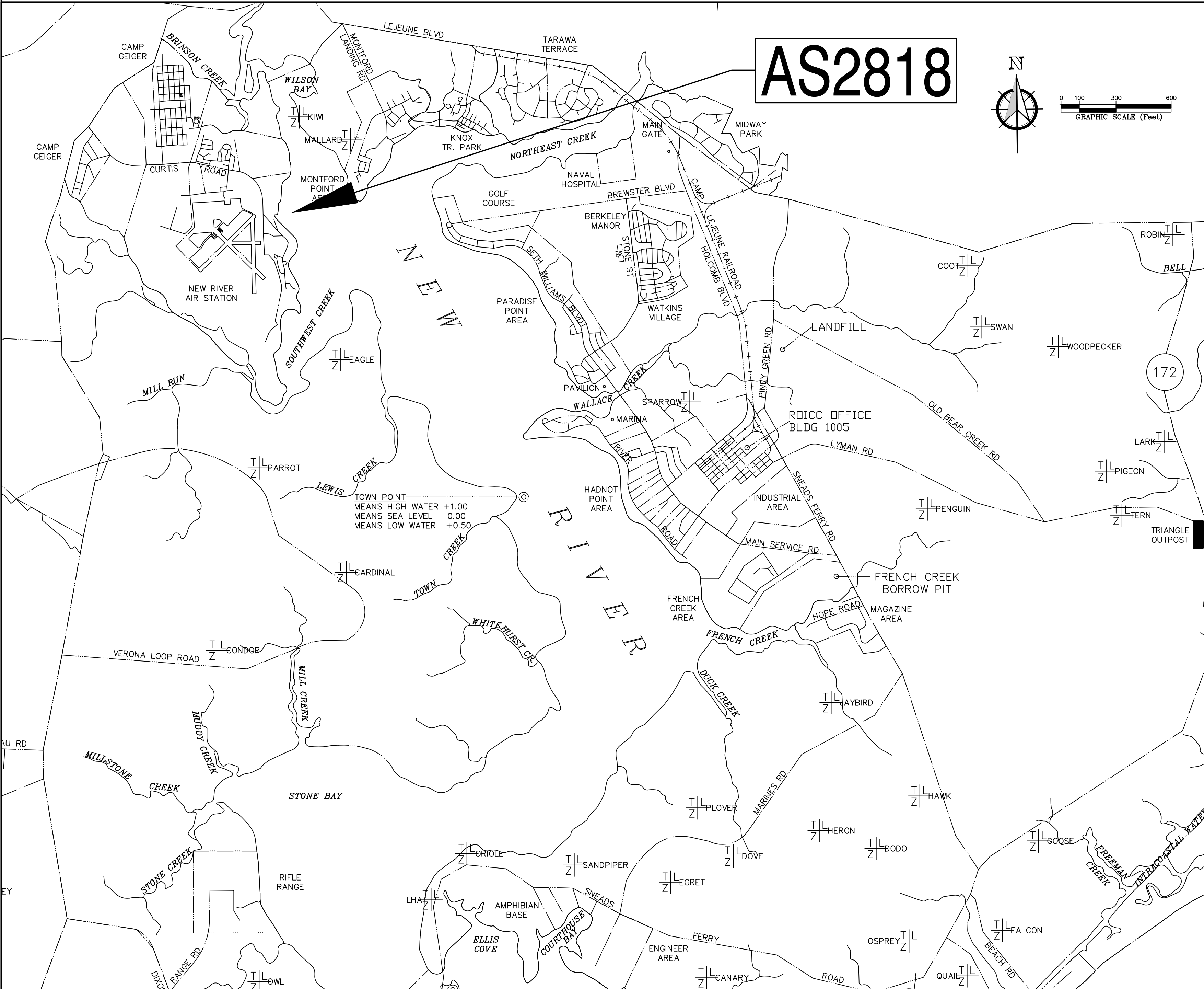


VICINITY MAP



LOCATION MAP

LOCATION MAP



22-0005 BUILDING AS2818 HEAD REPAIRS

MARINE CORPS AIR STATION, NEW RIVER, N.C.

GENERAL NOTES

1. THESE DRAWINGS INDICATE GENERAL CONDITIONS WITH INFORMATION COMPILED FROM FIELD OBSERVATION. CONSTRUCTION AND MATERIALS INDICATED ARE GENERAL IN NATURE AND ARE NOT INTENDED TO FULLY DESCRIBE THE EXISTING CONSTRUCTION PRESENT. THE CONTRACTOR IS RESPONSIBLE TO INSPECT ALL FACILITIES TO BE DEMOLISHED TO HIS OWN SATISFACTION AND INCLUDE ALL NECESSARY COSTS TO COMPLETELY REMOVE EACH FACILITY AS DESCRIBED. CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD VERIFICATION PRIOR TO BIDDING, ORDERING MATERIALS AND DURING EVERY STEP OF CONSTRUCTION FOR EXISTING SURFACES, DIMENSIONS AND CONDITIONS. NUMBER OF ITEMS AND LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR MUST VERIFY ALL CONDITIONS AND INCLUDE IN SCOPE OF WORK ACCORDINGLY.
2. PRIOR TO STARTING DEMOLITION ON ANY STRUCTURES OR UTILITIES, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS OF ANY STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL DEVELOP A PLAN OF DEMOLITION THAT ENSURES ALL ACTIVITIES ARE COMPLETED IN A SAFE MANNER. PROVIDE ANY TEMPORARY SHORING, SHEETING OR SUPPORT REQUIRED TO COMPLETE WORK IN A SAFE MANNER.
3. COMPLETELY REMOVE ALL STRUCTURE AND UTILITIES INDICATED, BOTH ABOVE GROUND AND BELOW GROUND.
4. WHERE ROADS, SIDEWALKS, ETC ARE INDICATED TO BE CUT AND PATCHED, EACH SHALL BE REMOVED AND REPLACED ALONG NEAT SAW CUT LINES, AND TO THE NEAREST JOINT WHERE IT EXISTS.
5. REPAIR AND REFINISH AREAS DAMAGED OR DISTURBED BY NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.
6. DIMENSIONS PROVIDED ON EXISTING ITEMS ARE PROVIDED TO AID THE CONTRACTOR UNDERSTAND THE SCOPE OF WORK. FIELD VERIFY ALL CONDITIONS. ALL THE DIMENSIONS SHOWN ARE APPROXIMATE ONLY.
7. METHOD OF REMOVAL OF ANY BUILDING COMPONENT SHALL BE APPROVED BY THE COR (CONTRACTING OFFICER REPRESENTATIVE). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT REMOVAL OF EXISTING COMPONENTS DO NOT AFFECT ADJACENT OCCUPIED AREAS.
8. DEMOLITION OPERATIONS SHALL BE COMPLETED IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS AND AS SPECIFIED.
9. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS, AND GOVERNMENT REQUIREMENTS
10. THE NOTATION (TYP) INDICATES THAT THE CONDITION OCCURS IN MORE THAN ONE PLACE INCLUDING ALL SIMILAR CONDITIONS NOT INDIVIDUALLY NOTED.
11. COORDINATE STAGING AREA, SITE ACCESS, TOILET USE WITH THE COR (CONTRACTING OFFICER REPRESENTATIVE).
12. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY.
13. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE AS SOON AS PRACTICABLE.
14. CONTRACTOR SHALL MINIMIZE DUST, SEDIMENT AND DEBRIS FROM EXITING THE CONSTRUCTION SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS. CONTRACTOR SHALL DISPOSE OF DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCE AND STATUTES.
15. BURNING WILL NOT BE ALLOWED ON THE PROJECT SITE UNLESS AUTHORIZED IN WRITING BY THE CONTRACTING OFFICER.
16. ADJACENT STRUCTURES AND UTILITIES MUST REMAIN IN OPERATION DURING DEMOLITION ACTIVITIES. EXISTING ROADS SHALL REMAIN OPEN AND ACCESSIBLE BY VEHICULAR AND PEDESTRIAN TRAFFIC. IF ROADWAY CLOSURE IS REQUIRED, APPROVAL SHALL BE SECURED FROM THE CONTRACTING OFFICER. THE CONTRACTOR SHALL PROVIDE BARRICADES, LIGHTS, SIGNAGE AND OTHER PROTECTIVE DEVICES IN ACCORDANCE
17. ALL EXISTING UTILITIES AND EXISTING FEATURES ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. CONTRACTOR MUST BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES.
18. CONTRACTOR'S PERSONNEL MUST WEAR IDENTIFICATION AT ALL TIMES.

DRAWING INDEX

NO.	SHEET #	NAVFAC #	SHEET NAME
1	G-001	60039605	TITLE SHEET, GENERAL NOTES AND AREA MAPS
2	G-002	60039606	GENERAL NOTES
3	C-101	60039607	SITE DEMOLITION PLAN
4	C-102	60039608	NEW WORK SITE PLAN
5	C-103	60039609	SITE DETAILS
6	A-101	60039610	FLOOR PLAN - DEMOLITION
7	A-102	60039611	FLOOR PLAN - RENOVATION
8	A-103	60039612	ROOF PLAN
9	A-401	60039613	INTERIOR ELEVATIONS, SCHEDULES, AND DETAILS
10	A-501	60039614	DETAILS
11	A-601	60039615	SCHEDULES AND SIGNAGE
12	P1	60039616	PLUMBING DEMOLITION
13	P2	60039617	PLUMBING NEW WORK
14	P3	60039618	WATER ISOMETRIC
15	P4	60039619	WASTE AND VENT ISOMETRIC
16	P5	60039620	PLUMBING DETAILS
17	P6	60039621	PLUMBING DETAILS AND SCHEDULE
18	M1	60039622	MECHANICAL LAYOUT AND DETAILS
19	E-100	60039623	ELECTRICAL LEGEND AND NOTES
20	E-101	60039624	SITE AND DEMOLITION PLAN
21	E-102	60039625	LIGHTING AND POWER PLAN
22	E-103	60039626	DETAILS, SCHEDULES, AND RISER

DISCLOSURE OF INFORMATION CONTRACTOR SHALL COMPLY AS FOLLOWS:

A. THE CONTRACTOR SHALL NOT RELEASE TO ANYONE OUTSIDE THE CONTRACTOR'S ORGANIZATION ANY UNCLASSIFIED INFORMATION, REGARDLESS OF MEDIUM (E.G., FILM, TAPE, DOCUMENT), PERTAINING TO ANY PART OF THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT, UNLESS:

- (1) THE CONTRACTING OFFICER HAS GIVEN PRIOR WRITTEN APPROVAL; OR
- (2) THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.

B. REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED, THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED DATE FOR RELEASE.

C. THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.

FINAL		G-001
DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJUNE, NORTH CAROLINA		
BUILDING AS2818 HEAD REPAIRS		
TITLE SHEET, GENERAL NOTES, AREA MAPS		
DES. M. HUNTER	DATE: 11/16/2023	NAVFAC DRAWING NO. 60039605
DR. M. HUNTER	SIZE: E1	CODE IDENT. NO. 80091
CHK. K. ROOT, R.A.	SCALE: NOTED	SPEC. NA
SUBMITTED BY: M. HUNTER	DATE: 11/16/2023	SHEET 1 OF 22
DESIGN DIR. J. FRANKLIN ORR, P.E.	CONSTR. CONTR. NO. 22-0005	
APPROVED: PWO OR OICC: PWO or OICC	DATE: 11/16/2023	
SATISFACTORY TO:	DATE:	

GENERAL NOTES/ENVIRONMENTAL NOTES:

1. TO ACCESS SITE CONTACT MCBCL CONSTRUCTION MANAGER.
2. CLEAN ALL ITEMS AS NECESSARY TO RECEIVE NEW FINISHES. FILL ALL HOLES TO MATCH EXISTING CONDITIONS.
3. CONTRACTOR SHALL INSURE THAT THE BUILDING REMAINS WATERTIGHT THROUGH OUT THE CONSTRUCTION OPERATIONS AND AT THE END OF EACH DAY.
4. SUBMITTALS SHALL BE SUBMITTED TO CONTRACTING OFFICER CONTRACTING REPRESENTATIVE FOR APPROVAL.
5. ALL STEEL ANGLES, PLATES AND BOLTS SHALL BE PRIMED PAINTED AS TEMPORARY PROTECTION AGAINST ORDINARY ATMOSPHERIC CONDITIONS. SUBSEQUENT FINISH PAINTING SHALL BE PROVIDED BY CONTRACTOR.
6. COORDINATE STAGING AREA, SITE ACCESS, TOILET USE WITH THE COR (CONTRACTING OFFICER REPRESENTATIVE).
7. BURNING WILL NOT BE ALLOWED ON THE PROJECT SITE UNLESS AUTHORIZED IN WRITING BY THE CONTRACTING OFFICER.
8. CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, FENCE, ETC AS NECESSARY TO INSURE SAFETY TO PUBLIC AND BUILDING OCCUPANTS.
9. CONTRACTOR'S PERSONNEL MUST WEAR IDENTIFICATION AT ALL TIMES.
10. IF CONTAMINANTS ARE SUSPECTED THROUGH ODORS OR VISUAL ACTIVITIES, IMMEDIATELY STOP WORK. CALL 911 AND CONTACT EQB AT (910) 451-9017 FOR INSTRUCTIONS.
11. CONTRACTOR SHALL REVIEW ASBESTOS INSPECTION SURVEY BEFORE COMMENCING WORK.

GENERAL NOTES - ROOFING:

1. ITEM LOCATION SUCH AS VENTS, GOOSENECKS, EQUIPMENT, TIE ANCHORS, ETC. IS APPROXIMATE. FIELD VERIFY
2. FIELD VERIFY VENT QUANTITIES
3. ALL FLASHING, COUNTER FLASHING, WOOD BLOCKING, WOOD NAILERS, AND RELATED ROOF ITEMS MUST BE REPLACED WITH NEW PER CONSTRUCTION DOCUMENTS
4. UNLESS OTHERWISE NOTED, ALL ROOF PENETRATIONS AND PLUMBING VENTS CURRENTLY LOCATED ON THE ROOF ARE TO REMAIN IN PLACE SUBSEQUENT TO NEW ROOF INSTALLATION. REMOVE AND REPLACE ALL EXISTING FLASHING ELEMENTS AT ALL PENETRATIONS PRIOR TO NEW ROOFING SYSTEM INSTALLATION.
5. THE CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS (PLUMBING, ELECTRICAL, HVAC, ETC.) WITH DEMOLITION AND RENOVATION PHASING. COORDINATE ALL SHUTDOWNS AND/OR MODIFICATIONS OF EXISTING SYSTEMS WITH THE CONSTRUCTION MANAGER.
6. THE CONTRACTOR SHALL DE-ENERGIZE ALL ELECTRIC CIRCUITS PRIOR TO DEMOLITION OF AFFECTED EQUIPMENT, RE-CONNECT, AND RE-ENERGIZE ALL AFFECTED EQUIPMENT AND ELECTRICAL DEVICES AS NECESSARY TO RETURN THEM TO WORKING CONDITIONS.
7. THE CONTRACTORS MAY ONLY USE THE CAMP LEJEUNE LANDFILL FOR THE DISPOSAL OF ASBESTOS CONTAINING MATERIALS, BUILDING PRODUCTS WITH TIGHTLY ADHERED LEAD CONTAINING PAINT, NON-CONTAMINATED CLEAN DIRT AND CLEAN GRAVEL. THE HOURS OF OPERATION ARE 0730-1530. DELIVERY OF ACCEPTABLE MATERIALS (LEAD AND ASBESTOS) SHALL BE BY APPOINTMENT ONLY. APPOINTMENTS MADE BY PHONE AT 910-451-5011 OR 910-451-2946.
8. NON-CONTAMINATED MATERIALS (IDENTIFIED ABOVE): ALL OTHER CONTRACTOR GENERATED MATERIAL SHALL BE WEIGHED THROUGH THE BASE LANDFILL SCALES BEFORE BEING REMOVED FROM THE BASE. CONTRACTORS UTILIZING THE BASE SCALES WILL REQUIRE CONTRACTING OFFICER ASSISTED PRE-REGISTRATION WITH THE LANDFILL MANAGER. THE CONTRACTING OFFICER WILL REGISTER THE CONTRACT VIA E-MAIL, WITH THE BASE LANDFILL. ALL HAUL VEHICLES WILL MAINTAIN A SECURE VEHICLE PLACARD AS A CONDITION TO UTILIZE THE SCALE. E-MAIL THE CONTRACT INFORMATION TO THE LANDFILL CLERK, INCLUDING THE NAME ON THE PRIME CONTRACTOR, CONTRACT NUMBER, JOB NAME/DESCRIPTION, COMPLETION DATE AND WHETHER OR NOT ANY OF THE ABOVE MATERIALS WILL BE DELIVERED TO THE LANDFILL. HAULING AND OFF-BASE LANDFILL COSTS SHALL BE INCLUDED IN THE CONTRACT.

HAZARDOUS WASTE:

1. IF HAZARDOUS MATERIALS ARE FOUND ENSURE THAT SUBJECT BUILDING(S)/STRUCTURE(S) ARE EVALUATED FOR ASBESTOS/ASBESTOS CONTAINING MATERIALS/LEAD BY A CERTIFIED PROFESSIONAL PRIOR TO THE DEMOLITION/RENOVATION.
2. ALL HAZARDOUS WASTE GENERATED BY THIS PROJECT (FOR EXAMPLE: SAA MANAGEMENT; CONTAINER MANAGEMENT; MANIFEST REQUIREMENTS; STORAGE; AND SHIPMENT) SHALL MEET RCRA STANDARDS.
3. COORDINATE WITH FELICIA PADILLA, SUPERVISOR RESOURCE CONSERVATION & SECTION ENVIRONMENT PROTECTION SPECIALIST ENVIRONMENTAL MANAGEMENT DIVISION MARINE CORPS BASE CAMP LEJEUNE. TELEPHONE:910-451-5256. E-MAIL: felicia.padilla@usmc.mil

MISCELLANEOUS EXTERIOR ELEVATIONS:

1. REMOVE ALL DAMAGED MORTAR JOINTS (DOES NOT INCLUDE DEMOLISHED CONDITIONS SHOWN IN THE HATCHED AREAS). INFILL WITH NEW MORTAR TO MATCH EXISTING CONDITIONS. FOR BIDDING PURPOSES ASSUME THAT 30 LF OR CMU JOINT MORTARS WILL NEED TO BE REPOINTED.
2. POWER WASH ALL CMU PRIOR TO PAINTING. SCRAPE/REMOVE LOOSE PAINT PRIOR TO PAINTING.
3. ACTUAL SAMPLES OF ALL THE EXTERIOR MATERIALS MUST BE SUBMITTED TO THE BEAP FOR REVIEW AND APPROVAL, NO EXCEPTIONS. COLOR CHIPS, PHOTOCOPIES, ELECTRONIC SAMPLES WILL NOT BE ACCEPTABLE

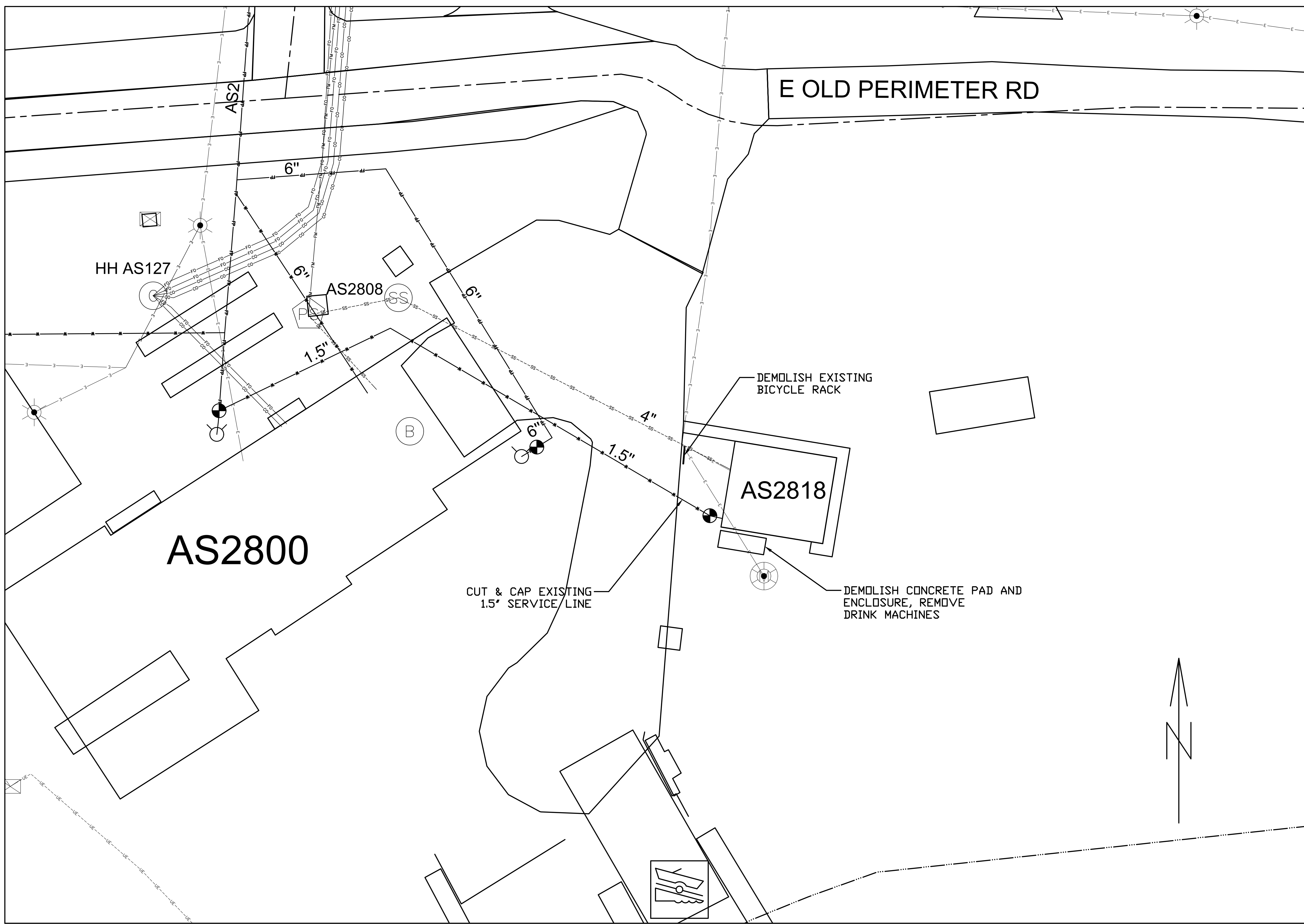
ROUGH CARPENTRY

1. ALL WOOD AND PLYWOOD NEEDED TO REPAIR EXISTING CONDITIONS SHALL MEET THE FOLLOWING STANDARDS: ASTM INTERNATIONAL; AMERICAN WOOD COUNCIL (AWC); AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA); THE ENGINEERED WOOD ASSOCIATION (APA); INTERNATIONAL CODE COUNCIL (ICC); NATIONAL FIRE PROTECTION ASSOCIATION (NFPA); AND AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA).
2. TREAT WOOD PRODUCTS WITH WATERBORNE WOOD PRESERVATIVES CONFORMING TO AWPA P5. PRESSURE TREATMENT OF WOOD PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF AWPA BOOK. USE CATEGORY SYSTEM STANDARDS U1 AND T1.
3. PRESSURE-TREATED WOOD PRODUCTS SHALL NOT CONTAIN ARSENIC, CHROMIUM, OR OTHER AGENTS CLASSIFIED AS CARCINOGENIC, PROBABLY CARCINOGENIC, OR POSSIBLY CARCINOGENIC TO HUMANS (COMPOUNDS IN GROUPS 1, 2A, OR 2B) BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), LYON, FRANCE.
4. PRESSURE-TREATED WOOD PRODUCTS SHALL NOT EXCEED THE LIMITS OF THE U.S. EPA'S TOXIC CHARACTERISTIC LEACHING PROCEDURE (TCLP), AND SHALL NOT BE CLASSIFIED AS HAZARDOUS WASTE. SUBMIT CERTIFICATION FROM TREATING PLANT STATING CHEMICALS AND PROCESS USED AND NET AMOUNT OF PRESERVATIVES RETAINED ARE IN CONFORMANCE WITH SPECIFIED STANDARDS.
5. FOR ABOVE GROUND USE: 0.25 POUNDS PER CUBIC METER (PCF).
6. FOR GROUND CONTACT AND FRESH WATER USE: 0.40 POUNDS PER CUBIC METER (PCF).
7. ALL WOOD SHALL BE AIR OR KILN DRIED AFTER TREATMENT.
8. SPECIFIC TREATMENTS SHALL BE VERIFIED BY THE REPORT OF AN APPROVED INDEPENDENT INSPECTION AGENCY, OR THE AWPA QUALITY MARK ON EACH PIECE. PRESERVATIVE-TYPE PRESSURE TREATMENT SHALL HAVE A MINIMUM MOISTURE CONTENT OF 19 PERCENT AFTER PRESSURE TREATMENT AND SHALL BE PRESSURE TREATED USING AMMONIACAL COPPER QUATERNARY COMPOUND (ACQ). PRESERVATIVE SHALL PENETRATE A MINIMUM OF 3/8-INCH (9.5 MM) DEEP INTO WOOD.
9. FASTENERS AND CONNECTORS USED WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE G185 HOT DIP GALVANIZED, TYPE 304 STAINLESS STEEL OR TYPE 316 STAINLESS STEEL.

SHOP DRAWING SUBMITTALS:

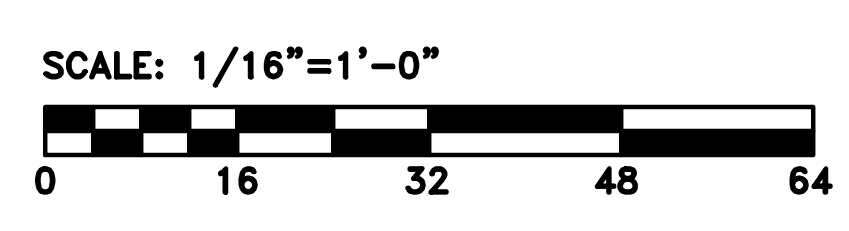
1. SHOP DRAWINGS MUST BE PROJECT-SPECIFIC
2. SHOP DRAWINGS MUST BE WELL COORDINATED AMONG THE VARIOUS VENDORS/TRADES/SUBCONTRACTORS THAT CONSTITUTE A PARTICULAR BUILDING SYSTEM
3. THE GOVERNMENT WILL REJECT INCOMPLETE SHOP DRAWINGS. COMPLETE SHOP DRAWINGS MUST SHOW ALL INTERFACING COMPONENTS. FOR EXAMPLE, ON BUILDING ENVELOPE SYSTEMS:
 - a. OPENING PRODUCTS SUCH AS WINDOWS, DOORS, LOUVERS, PENETRATIONS, ETC. WITHOUT FLASHING, VAPOR BARRIER, THREE-PIECE SILL, INSULATION OF AIR SPACE, ETC., AND/OR
 - b. COMPONENTS SHOWN IN NON-PROJECT SPECIFIC WAY, AND/OR
 - c. COMPONENT LAYOUTS LABELED "ITEM BY OTHERS",
4. GOVERNMENT APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO PROVIDE THE CORRECT QUANTITIES, CAPABILITIES, PERFORMANCE, COORDINATION WITH ALL TRADES, TO PERFORM THOROUGH FIELD INVESTIGATIONS, TO PROVIDE COMPLETE SYSTEMS IN PLACE AND READY FOR USE IN ACCORDANCE TO THE CONTRACT DOCUMENTS, REFERENCED CODES, GUIDELINES, ESTABLISHED GOOD PRACTICES, ETC.

DISCLOSURE OF INFORMATION CONTRACTOR SHALL COMPLY AS FOLLOWS:		FINAL		G-002	
<p>A. THE CONTRACTOR SHALL NOT RELEASE TO ANYONE OUTSIDE THE CONTRACTOR'S ORGANIZATION ANY UNCLASSIFIED INFORMATION, REGARDLESS OF MEDIUM (E.G., FILM, TAPE, DOCUMENT), PERTAINING TO ANY PART OF THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT, UNLESS:</p> <p>(1) THE CONTRACTING OFFICER HAS GIVEN PRIOR WRITTEN APPROVAL; OR</p> <p>(2) THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.</p> <p>B. REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED, THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED DATE FOR RELEASE.</p> <p>C. THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.</p>		<small>DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJEUNE, NORTH CAROLINA</small>			
		BUILDING AS2818 HEAD REPAIRS			
DES. M. HUNTER		GENERAL NOTES			
DR. M. HUNTER					
CHK. K. ROOT, R.A.					
SUBMITTED BY: M. HUNTER					
DESIGN DIR. J. FRANKLIN ORR, P.E.					
APPROVED: PWO OR OICC: PWO or OICC	DATE:	SIZE: E1	CODE IDENT. NO: 80091	NAVFAC DRAWING NO: 60039606	
SATISFACTORY TO:	DATE:			CONSTR. CONTR. NO: 22-0005	
		SCALE: NOTED	SPEC. NA	SHEET 2 OF 22	



- GENERAL NOTES:**
1. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES, INCLUDING TELECOMMUNICATIONS AND COMMERCIAL CABLING, PRIOR TO GROUND DISTURBING ACTIVITIES.
 2. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS.
 3. PRESERVE AND PROTECT ALL EXISTING UTILITIES, INCLUDING TELECOMMUNICATIONS AND COMMERCIAL CABLING.
 4. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, INCLUDING TELECOMMUNICATIONS AND COMMERCIAL CABLING.
 5. CONTRACTOR IS RESPONSIBLE TO COORDINATE COMMERCIAL CABLING WITH COMMERCIAL CABLING PROVIDERS
 6. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL (IAW) CODES.
 7. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ROICC.
 8. SOD ANY DISTURBED AREAS UPON COMPLETION OF CONSTRUCTION.
 9. JOBSITE SHALL BE KEPT CLEAR OF ALL DEBRIS AND TRASH.
 10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF ENVIRONMENTAL, HEALTH AND SAFETY (EHS). CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ITS POLICIES AND PROCEDURES RELATED TO EHS MATTERS.

- DEMO NOTES:**
1. DEMOLISH AND REMOVE EXISTING CONCRETE PAD AND ENCLOSURE.
 2. DEMOLISH AND REMOVE EXISTING BICYCLE RACK.
 3. CUT AND CAP EXISTING WATER SERVICE LINE. REMOVE EXISTING GATE VALVE.
 4. PROTECT ALL OTHER UTILITIES AND INFRASTRUCTURE THAT ARE TO REMAIN.
 5. CONTRACTOR MUST LOCATE THE EXISTING GAS LOCATION AND DEPTH PRIOR TO CONSTRUCTION SO TO PROTECT IT.



DISCLOSURE OF INFORMATION CONTRACTOR SHALL COMPLY AS FOLLOWS:

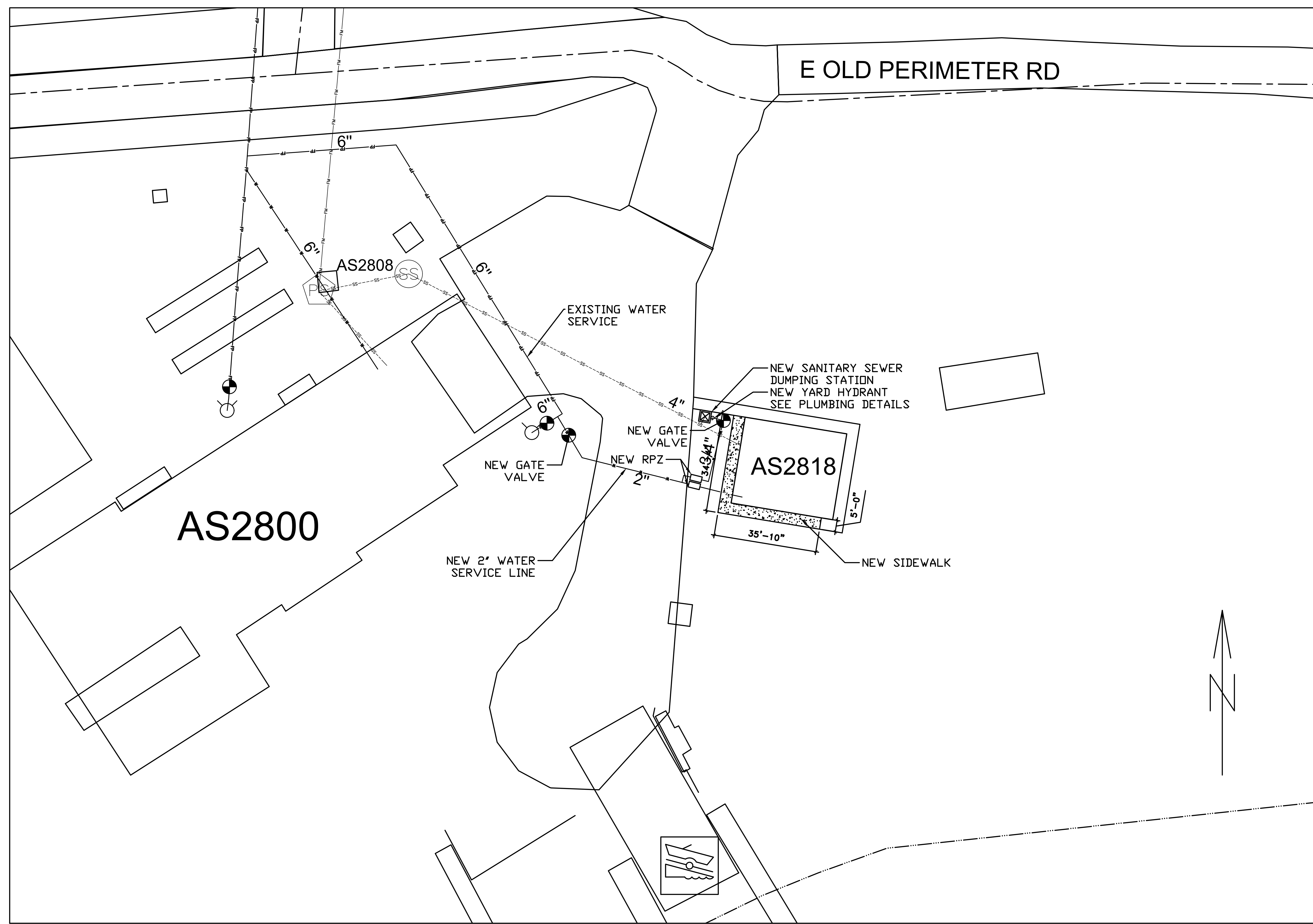
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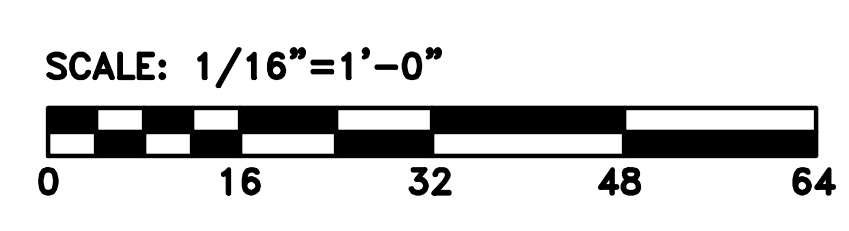
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FINAL		C-101
<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJEUINE, NORTH CAROLINA</small>		
BUILDING AS2818		
HEAD REPAIRS		
SITE DEMOLITION PLAN		
DES. MORGAN HUNTER	DR. MATT HORNE	
CHK. KELLY ROOT	SUBMITTED BY: MORGAN HUNTER	
DESIGN DIR. J. FRANK ORR	APPROVED: PWO OR OICC: PWO or OICC	DATE: E1
	SIZE: 80091	CODE IDENT. NO: 60039607
SATISFACTORY TO:	DATE:	CONSTR. CONTR. NO: 22-0005
SCALE: NOTED	SPEC: NA	SHEET 3 OF 22



- GENERAL NOTES:**
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- NEW WORK NOTES:**
1. INSTALL NEW 4" CONCRETE SIDEWALK. PREPARE SUBGRADE PRIOR TO PLACING CONCRETE. SEE C102 DETAIL "A".
 2. INSTALL NEW 2" WATER SERVICE LINE. PROVIDE NEW RPZ AND NEW VALVE.
 3. INSTALL NEW SANITARY SEWER DUMPING STATION. SEE C102 DETAIL "B".
 5. CONTRACTOR MUST LOCATE THE EXISTING GAS LOCATION AND DEPTH PRIOR TO CONSTRUCTION SO TO PROTECT IT.



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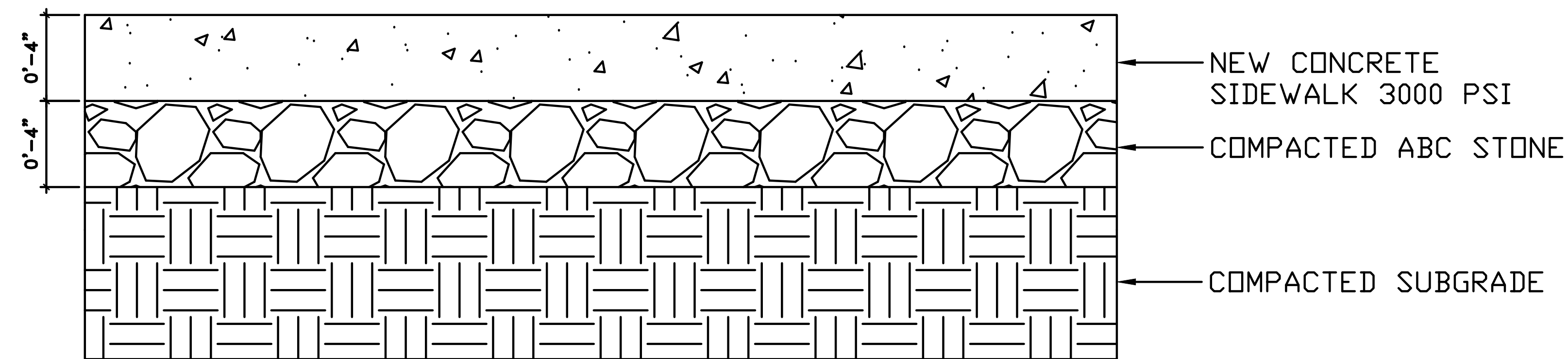
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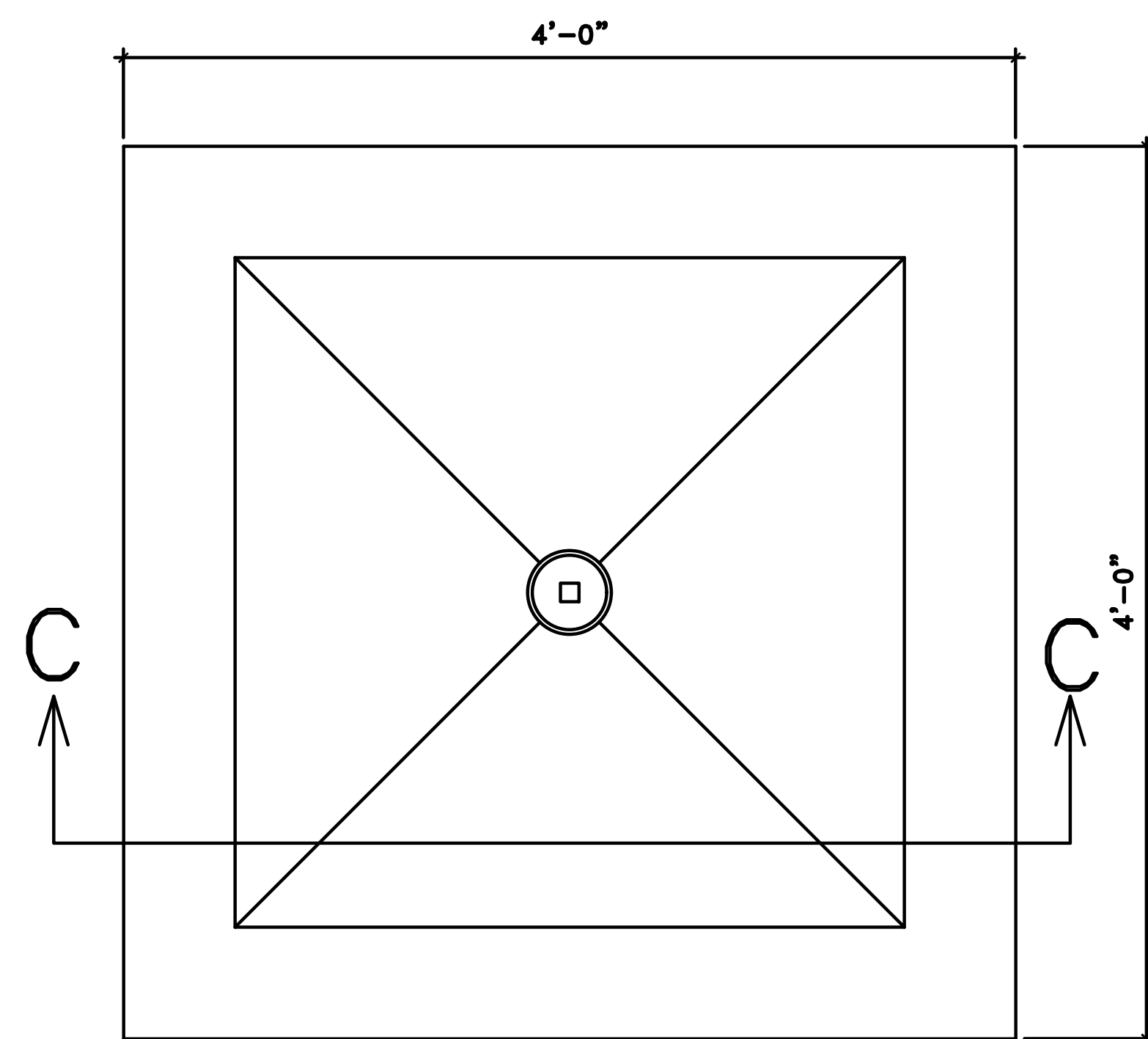
FINAL		C-102
<small>DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJEUNE, NORTH CAROLINA</small>		
BUILDING AS2818 HEAD REPAIRS		
NEW WORK SITE PLAN		
<small>DESIGNED BY:</small> MORGAN HUNTER	<small>DATE:</small>	<small>NAVIFAC DRAWING NO.</small> 60039608
<small>DR.</small> MATT HORNE	<small>SIZE:</small> E1	<small>CONSTR. CONTR. NO.</small> 22-0005
<small>CHK.</small> KELLY ROOT	<small>CODE IDENT. NO.</small> 80091	<small>SHEET</small> 4 OF 22
<small>SUBMITTED BY:</small> MORGAN HUNTER	<small>SCALE:</small> NOTED	<small>SPEC.</small> NA
<small>DESIGN DIR.</small> J. FRANKLIN ORR	<small>DATE:</small>	
<small>APPROVED: PWO OR OICC:</small> PWO or OICC	<small>DATE:</small>	
<small>SATISFACTORY TO:</small>	<small>DATE:</small>	

GENERAL NOTES:

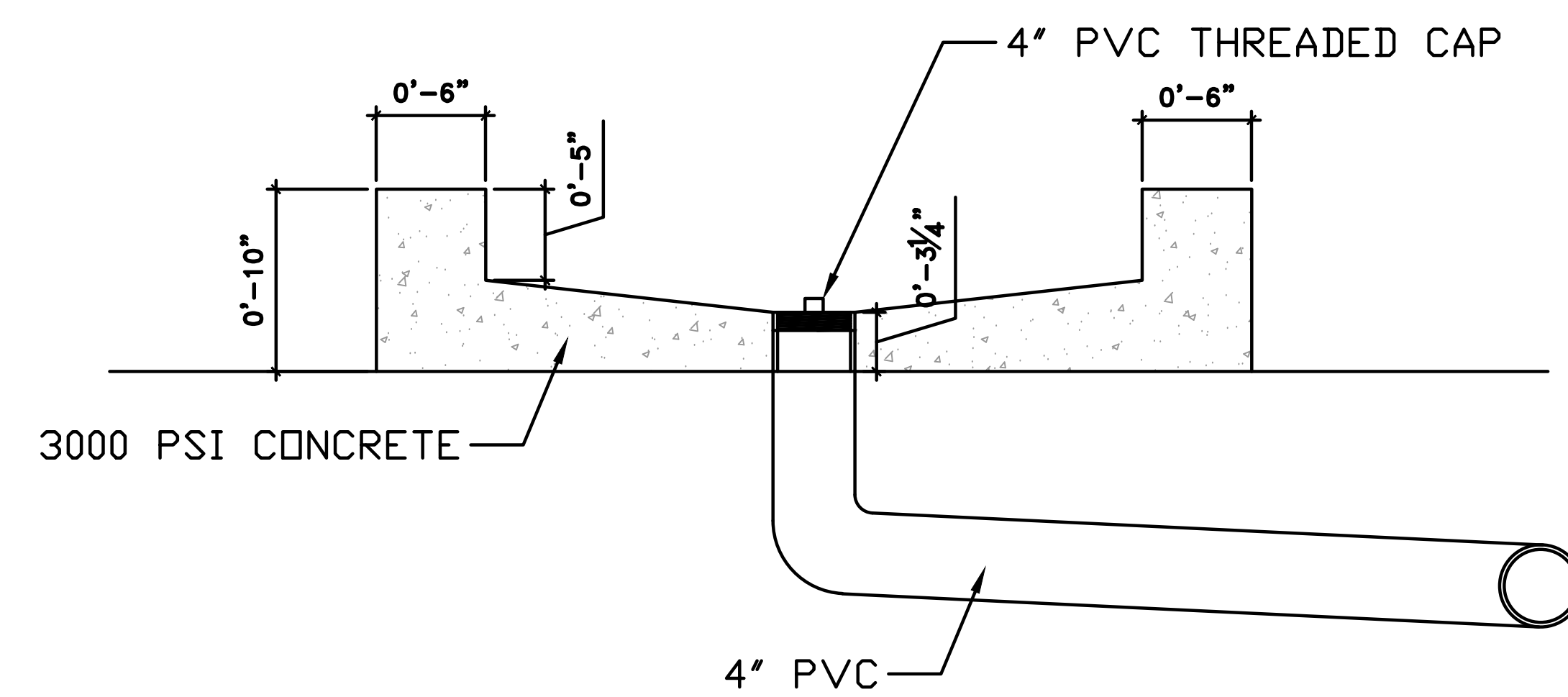
1. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES, INCLUDING TELECOMMUNICATIONS AND COMMERCIAL CABLING, PRIOR TO GROUND DISTURBING ACTIVITIES.
2. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS.
3. PRESERVE AND PROTECT ALL EXISTING UTILITIES, INCLUDING TELECOMMUNICATIONS AND COMMERCIAL CABLING.
4. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, INCLUDING TELECOMMUNICATIONS AND COMMERCIAL CABLING.
5. CONTRACTOR IS RESPONSIBLE TO COORDINATE COMMERCIAL CABLING WITH COMMERCIAL CABLING PROVIDERS
6. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL (IAW) CODES.
7. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ROICC.
8. SOD ANY DISTURBED AREAS UPON COMPLETION OF CONSTRUCTION.
9. JOBSITE SHALL BE KEPT CLEAR OF ALL DEBRIS AND TRASH.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF ENVIRONMENTAL, HEALTH AND SAFETY (EHS). CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ITS POLICIES AND PROCEDURES RELATED TO EHS MATTERS..



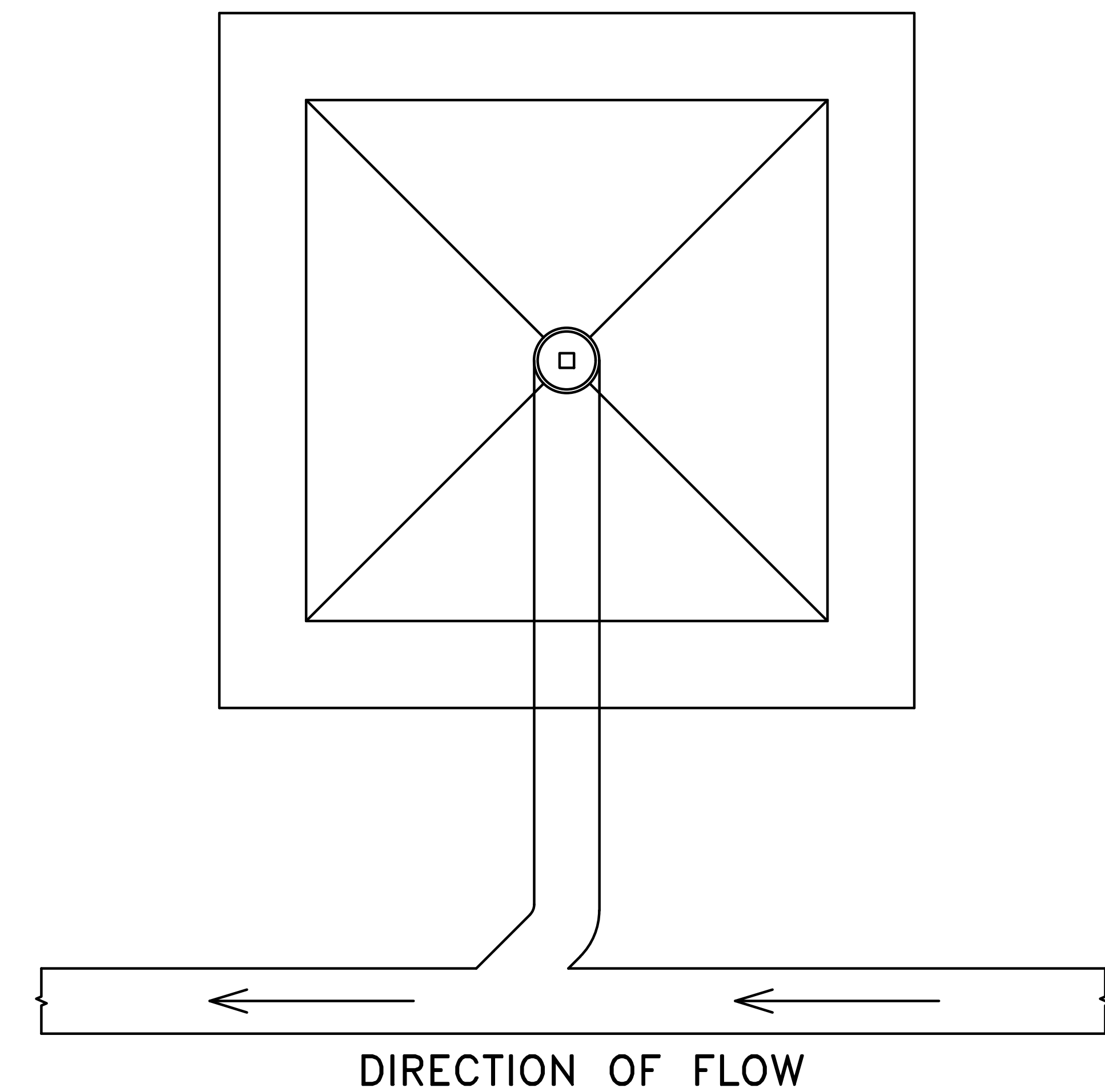
A CONCRETE SIDEWALK SECTION VIEW
C102 NOT TO SCALE



PLAN VIEW



SECTION VIEW "C"



B SANITARY SEWER DUMPING STATION
C102 NOT TO SCALE

DISCLOSURE OF INFORMATION CONTRACTOR SHALL COMPLY AS FOLLOWS:

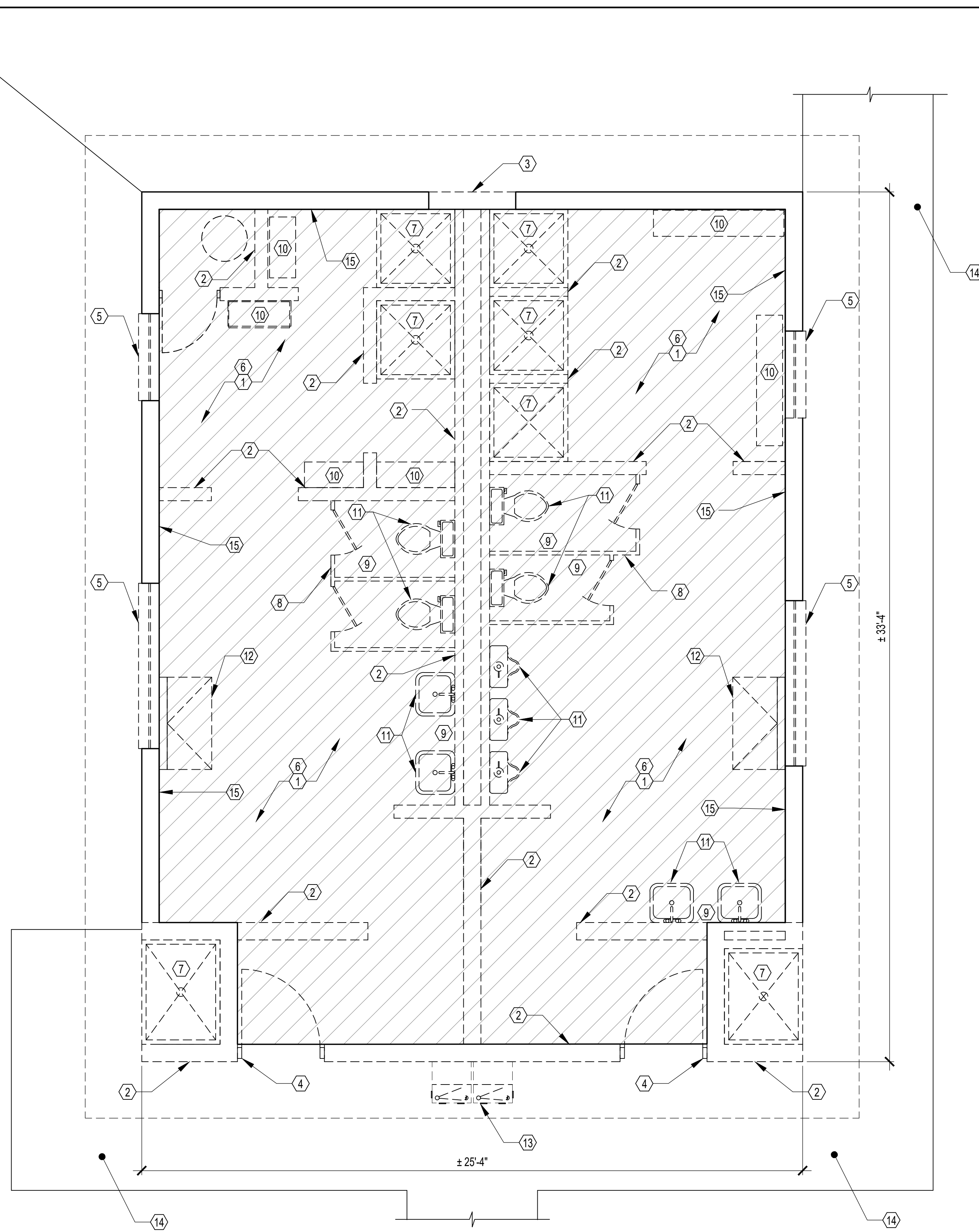
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- (2) THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.

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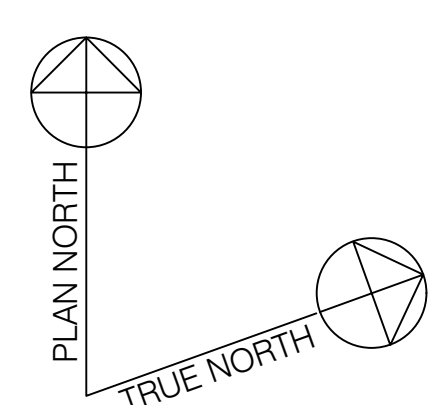
FINAL		C-103
<small>DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND</small>		
MARINE CORPS BASE		
<small>CAMP LEJEUNE, NORTH CAROLINA</small>		
BUILDING AS2818		
HEAD REPAIRS		
SITE DETAILS		
DES. MORGAN HUNTER	DATE:	SIZE CODE IDENT. NO. NAVFAC DRAWING NO.
DR. MATT HORNE		E1 80091 60039609
CHK. KELLY ROOT		CONST. CONTR. NO. 22-0005
SUBMITTED BY: MORGAN HUNTER		
DESIGN DIR. J. FRANK ORR		
APPROVED: PWO OR OICC: PWO or OICC	DATE:	SCALE: NOTED
SATISFACTORY TO:	DATE:	SPEC. NA SHEET 5 OF 22



DEMOLITION NOTES	
NO.	NOTE
1	SAWCUT AND REMOVE EXISTING CONCRETE SLAB (APPROXIMATELY 4" THICK). SEE HATCH FOR AREA OF CONCRETE REMOVAL, APPROXIMATELY 740 S.F. SEE PLUMBING FOR ADDITIONAL NOTES.
2	REMOVE EXISTING CMU WALL AS INDICATED.
3	REMOVE EXTERIOR CMU WALL (3'-4") TO RECEIVE NEW DOOR.
4	REMOVE DOOR, FRAME, ANCHORS AND OTHER RELATED ITEMS.
5	REMOVE WINDOW, FRAME, ANCHORS, CAULKING, AND OTHER RELATED ITEMS.
6	REMOVE EXISTING CEILING, INSULATION, AND LIGHTING. EXHAUST FANS AND ALL ASSOCIATED SWITCHES/WIRING/CIRCUITS. SEE ELECTRICAL DEMOLITION FOR ADDITIONAL DETAILS.
7	REMOVE ALL SHOWER ITEMS INCLUDING FLOOR DRAIN. SEE PLUMBING DEMOLITION FOR ADDITIONAL DETAILS.
8	REMOVE TOILET PARTITIONS, SUPPORTS, HARDWARE, ACCESSORIES, ANCHORS, AND OTHER RELATED ITEMS.
9	REMOVE ALL TOILET ACCESSORIES INCLUDING PAPER TOWEL DISPENSER, SOAP DISPENSER, GRAB BARS, TOILET PAPER HOLDER, ETC.
10	REMOVE BENCHES AND ASSOCIATED HARDWARE. REPAIR CMU WALL WHERE NOT BEING DEMOLISHED.
11	REMOVE ALL FIXTURES (SINKS, TOILETS, URINALS). REMOVE ALL ASSOCIATED PIPING COMPLETE.
12	REMOVE EXISTING CHANGING TABLES.
13	REMOVE EXISTING WATER COOLERS.
14	PRESERVE AND PROTECT SIDEWALK. SEE CIVIL FOR ADDITIONAL NOTES.
15	PREPARE EXISTING CMU WALL FOR NEW PAINT.

DEMOLITION LEGEND - PLANS	
	EXISTING CMU WALLS TO REMAIN
	CMU WALLS, DOORS, FRAMES, WINDOWS, FIXTURES AND EQUIPMENT TO BE REMOVED
	LIMITS OF FLOOR SLAB DEMOLITION

1 FLOOR PLAN - DEMOLITION
A-101 3/8" = 1'-0"



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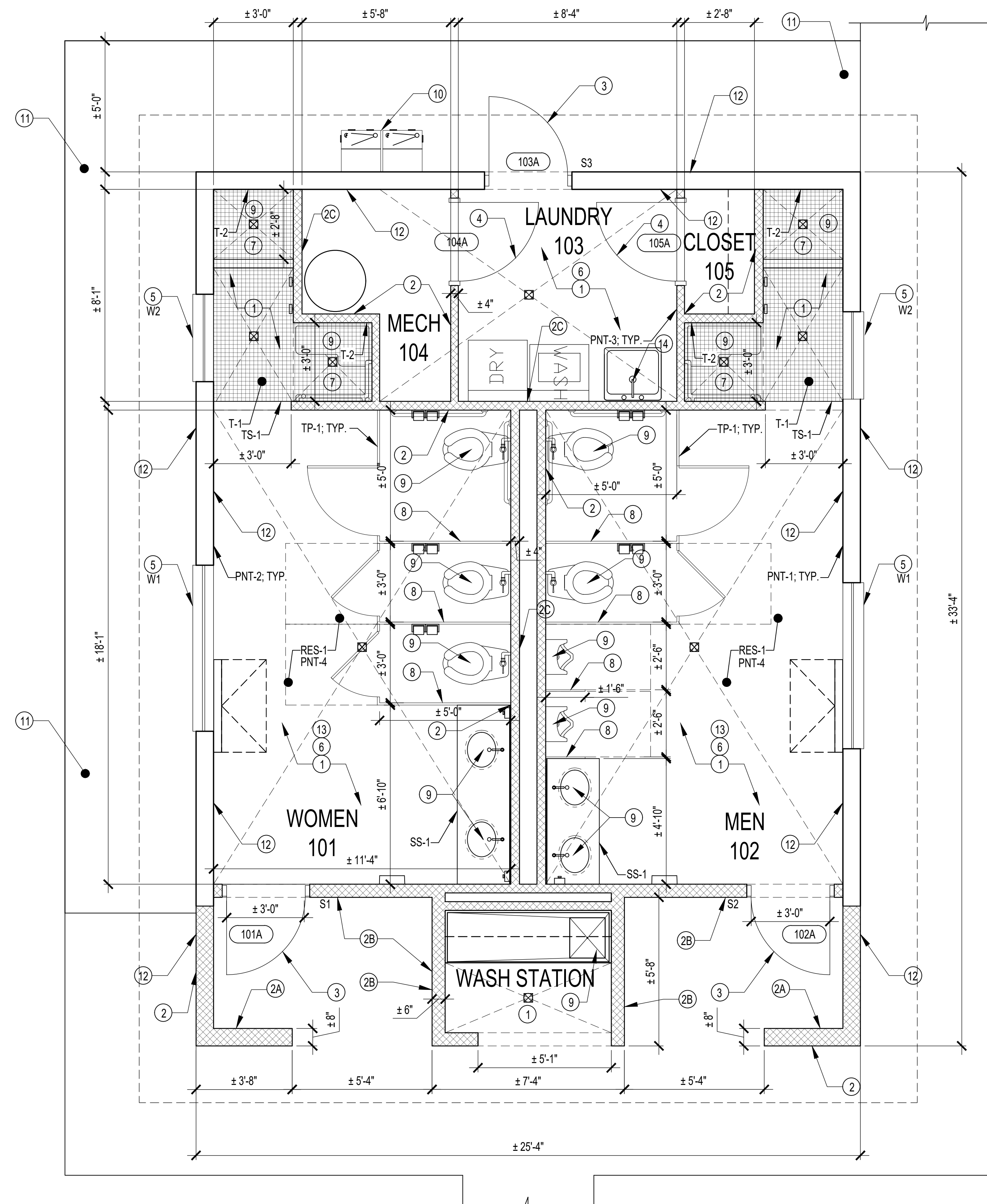
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FINAL		A-101
<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJUNE, NORTH CAROLINA</small>		
BUILDING AS2818 HEAD REPAIRS		
FLOOR PLAN - DEMOLITION		
DES. M. HUNTER	DATE:	NAVAFAC DRAWING NO. 60039610
DR. M. HUNTER	DATE:	CONST. CONTR. NO. 22-0005
CHK. K. ROOT, R.A.	DATE:	SCALE: NOTED SPEC. NA SHEET 6 OF 22
SUBMITTED BY: M. HUNTER	DATE:	
DESIGN DIR. J. FRANKLIN ORR, P.E.	DATE:	
APPROVED: PWO OR OICC:	DATE:	
SATISFACTORY TO:	DATE:	



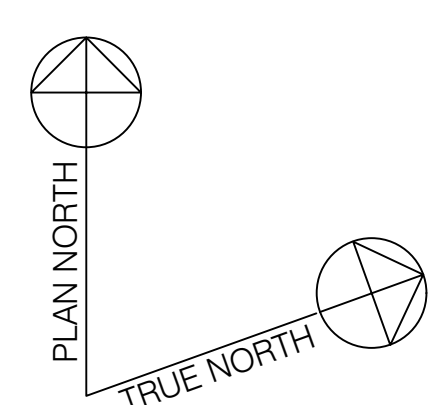
1 FLOOR PLAN - RENOVATION
A-102 3/8" = 1'-0"

RENOVATION NOTES

NO.	NOTE
1	PROVIDE NEW 4" CONCRETE SLAB AFTER NEW PLUMBING PIPING IS IN PLACE. SLOPE TO NEW FLOOR DRAINS (1/4" PER FOOT OF LENGTH). MATCH EXISTING SIDEWALK ELEVATIONS AT ENTRY POINTS. SEE PLUMBING FOR ADDITIONAL NOTES. SEE FINISH SCHEDULE FOR FLOOR FINISH, SHEET A-102.
2	PROVIDE CMU WALL TO 8'-8" A.F.F. PAINT. TYPICAL OF 8" CMU, 6" CMU, AND 4" CMU. LOCATIONS NOTED IN NOTES 2A, 2B, AND 2C.
2A	PROVIDE 8" CMU WALL.
2B	PROVIDE 6" CMU WALL.
2C	PROVIDE 4" CMU WALL.
3	INSTALL NEW EXTERIOR STEEL DOOR, FRAME, AND HARDWARE. PAINT. PROVIDE STEEL LINTEL AT NEW MASONRY OPENING. SEE DOOR SCHEDULE, SHEET A-601.
4	INSTALL NEW STEEL DOOR, FRAME, AND HARDWARE. PAINT. PROVIDE STEEL LINTEL AT NEW MASONRY OPENING. SEE DOOR SCHEDULE, SHEET A-601.
5	INSTALL NEW WINDOW. SEE WINDOW SCHEDULE, SHEET A-601.
6	PROVIDE MOISTURE RESISTANT GWB-PTD CEILING 8'-8" A.F.F. AND INSULATION. SEE ELECTRICAL DRAWINGS.
7	PROVIDE CONCRETE SHOWER PAN. SLOPE TO FLOOR DRAINS 1/4" PER FOOT OF LENGTH.
8	PROVIDE THROUGH-BODY COLOR PHENOLIC TOILET PARTITIONS, SUPPORTS, HARDWARE, ACCESSORIES, ANCHORS, AND OTHER RELATED ITEMS. TOILET COMPARTMENTS (5) TOTAL. URINAL SCREENS (2) TOTAL.
9	PROVIDE NEW PLUMBING FIXTURE. SEE PLUMBING FOR ADDITIONAL NOTES.
10	PROVIDE NEW WATER COOLERS. SEE PLUMBING FOR ADDITIONAL NOTES.
11	PROVIDE NEW SIDEWALK. PRESSURE WASH EXISTING SIDEWALK. SEE CIVIL FOR ADDITIONAL NOTES.
12	PATCH AND REPAIR EXISTING CMU WALL. PREPARE EXISTING CMU WALLS (INTERIOR AND EXTERIOR) FOR NEW FINISHES PER MANUFACTURER'S RECOMMENDATIONS. PAINT NEW AND EXISTING CMU WALL. SEAL CMU PER MANUFACTURER'S RECOMMENDATIONS. SEE FINISH SCHEDULE, SHEET A-102.
13	PROVIDE TOILET ACCESSORIES INCLUDING PAPER TOWEL DISPENSER, SOAP DISPENSER, GRAB BARS, TOILET PAPER HOLDER, CHANGING TABLES, ETC. SEE TOILET ACCESSORIES SCHEDULE, SHEET A-401.
14	PROVIDE STAINLESS STEEL UTILITY SINK, 24"x24"

FINISH SCHEDULE

CODE	DESCRIPTION	BASIS OF DESIGN	NOTES
T-1	PORCELAIN TILE	MANUFACTURER: DAL TILE PRODUCT: HAUT MONDE; STONE ATTACHE COLLECTION; COLOR: TBD; PROVIDE SAMPLES FOR GOVERNMENT REVIEW. SIZE: 2"x2" MOSAIC	TO BE USED ON FLOORS IN SHOWER AREA. PROVIDE 4" COVE BASE IN SHOWER AREA.
T-2	PORCELAIN TILE	MANUFACTURER: DAL TILE PRODUCT: HAUT MONDE; STONE ATTACHE COLLECTION; COLOR: TBD; PROVIDE SAMPLES FOR GOVERNMENT REVIEW. SIZE: 12"x24"; VERTICAL INSTALL.	TO BE USED ON SHOWER WALLS.
GR-1	GROUT	MANUFACTURER: CUSTOM COLOR: TBD; PROVIDE SAMPLES FOR GOVERNMENT REVIEW.	TO BE USED ON FLOORS AND WALLS.
RES-1	STANDARD RESINOUS FLOORING	MANUFACTURER: STONHARD COLOR: TBD; PROVIDE SAMPLES FOR GOVERNMENT REVIEW.	TO BE USED ON FLOORS IN RESTROOM AREA. PROVIDE 4" EPOXY COVE BASE.
PNT-1	ACRYLIC PAINT FINISH	MANUFACTURER: SHERWIN WILLIAMS COLOR: TBD; PROVIDE SAMPLES FOR GOVERNMENT REVIEW.	MEN'S HEAD. EGGSHELL FINISH. PAINTED CMU.
PNT-2	ACRYLIC PAINT FINISH	MANUFACTURER: SHERWIN WILLIAMS COLOR: TBD; PROVIDE SAMPLES FOR GOVERNMENT REVIEW.	WOMEN'S HEAD. EGGSHELL FINISH. PAINTED CMU.
PNT-3	ACRYLIC PAINT FINISH	MANUFACTURER: SHERWIN WILLIAMS COLOR: TBD; PROVIDE SAMPLES FOR GOVERNMENT REVIEW.	LAUNDRY ROOM. EGGSHELL FINISH. PAINTED CMU.
PNT-4	ACRYLIC PAINT FINISH	MANUFACTURER: SHERWIN WILLIAMS COLOR: HIGH REFLECTIVE WHITE.	EGGSHELL FINISH. PAINTED MOISTURE RESISTANT GYPSUM BOARD. CEILING.
TS-1	TRANSITION STRIP	MANUFACTURER: SCHLUTER MATERIAL: STAINLESS STEEL 304	TRANSITION FROM STANDARD RESINOUS FLOORING TO 2"x2" MOSAIC TILE. MODEL OPTIONS: DECO - IF NO TRANSITION BETWEEN HEIGHTS REQUIRED RENO-TX - IF TRANSITION BETWEEN DIFFERING HEIGHTS IS REQUIRED
TP-1	TOILET PARTITIONS	MANUFACTURER: ASI GLOBAL PARTITIONS MATERIAL: COLOR THRU PHENOLIC COLOR: TBD; PROVIDE SAMPLES FOR GOVERNMENT REVIEW.	OVERHEAD-BRACED COMPARTMENTS
SS-1	SOLID SURFACE COUNTERTOP	MANUFACTURER: CORIAN COLOR: TBD; PROVIDE SAMPLES FOR GOVERNMENT REVIEW.	SEE DETAIL SHEET 4/A-401.



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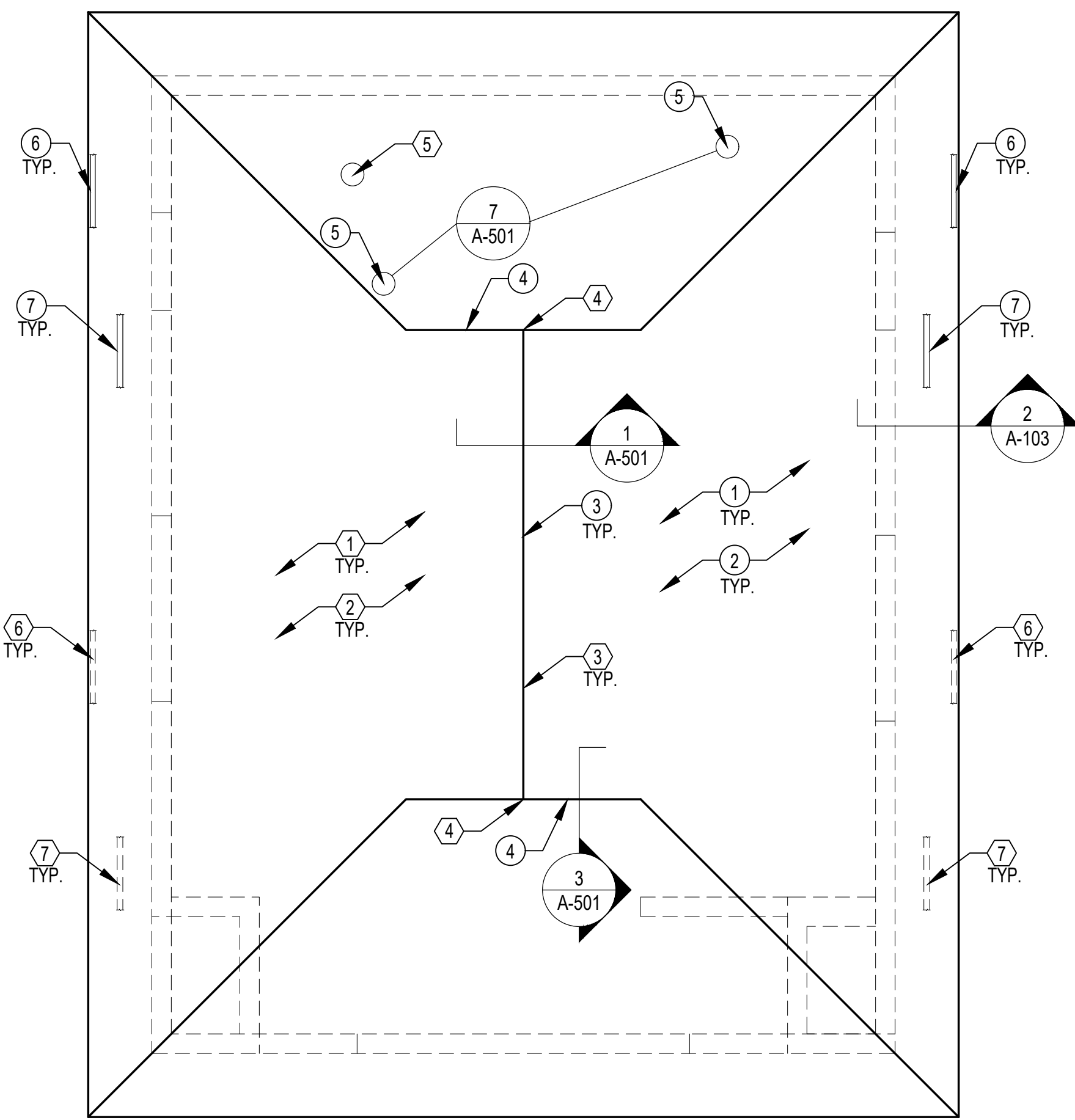
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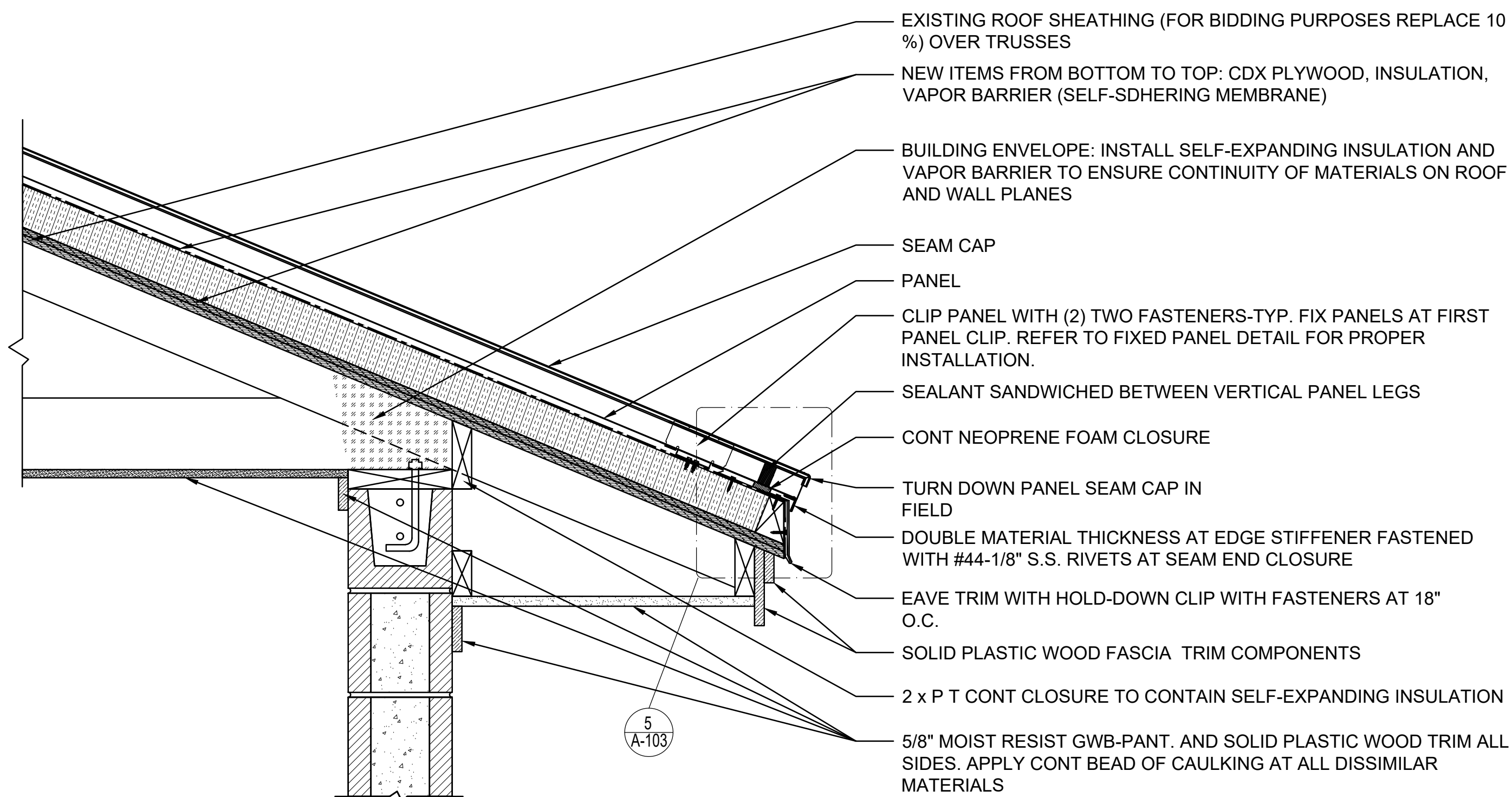
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FINAL		A-102
<small>DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJUNE, NORTH CAROLINA</small>		
BUILDING AS2818 HEAD REPAIRS		
FLOOR PLAN - RENOVATION		
DES. M. HUNTER	DR. M. HUNTER	NAVIFAC DRAWING NO. 60039611
CHK. K. ROOT, R.A.	SUBMITTED BY: M. HUNTER	CONST. CONTR. NO. 22-0005
DESIGN DIR. J. FRANKLIN ORR, P.E.	APPROVED: PWO OR OICC. DATE: E1 80091	SCALE: NOTED SPEC. NA SHEET 7 OF 22
SATISFACTORY TO:	DATE:	

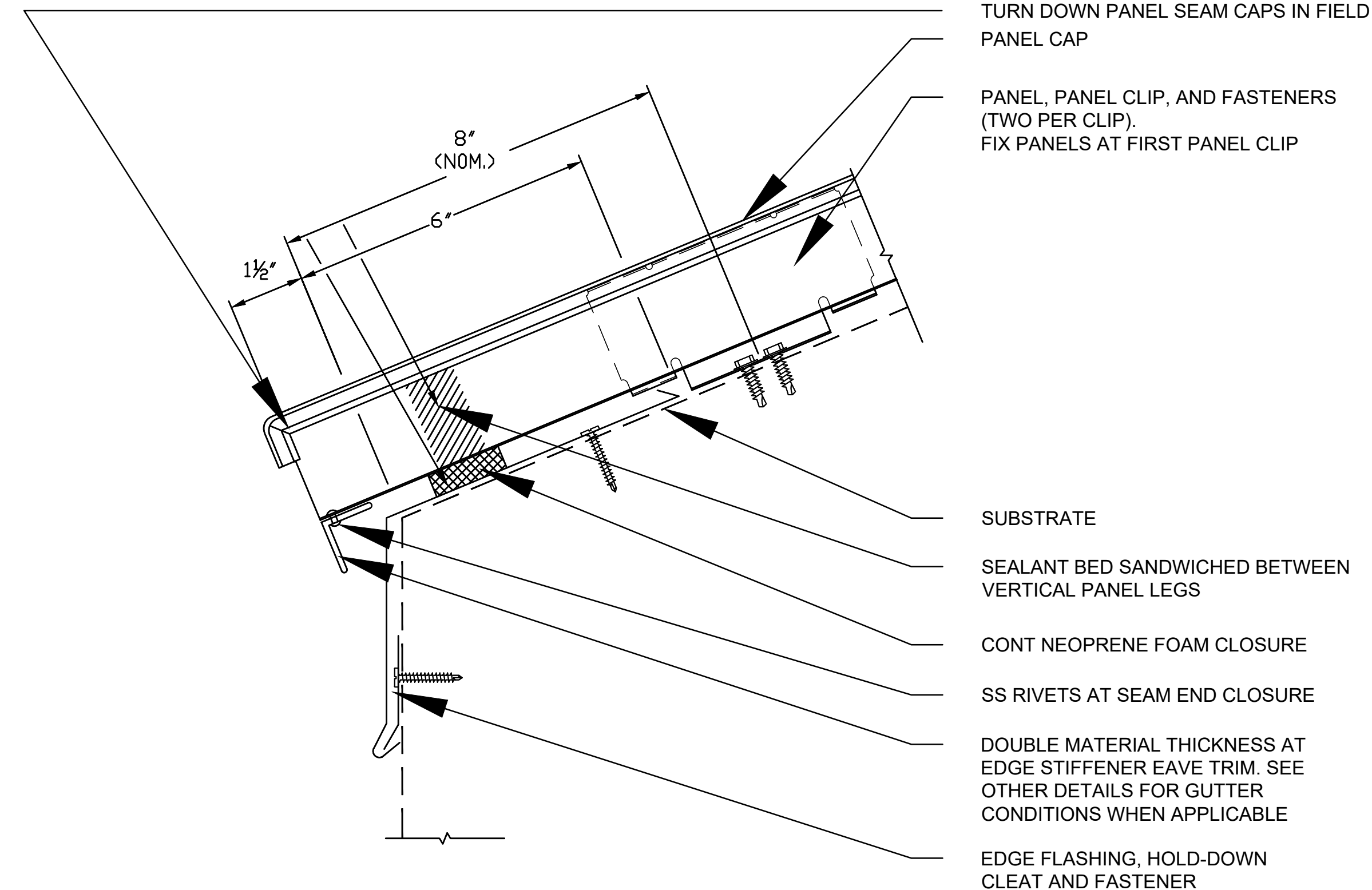


1 ROOF PLAN
A-103 1/4" = 1'-0"

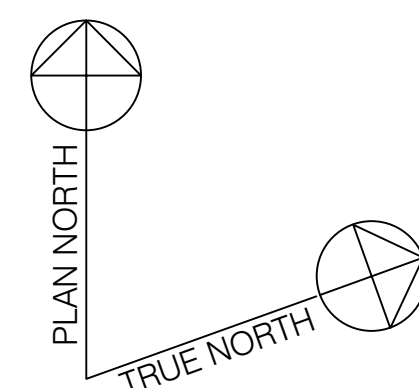
ROOF PLAN NOTES			
NO.	DESCRIPTION	DEMOLITION NOTE	RENOVATION NOTE
1	ROOFING SYSTEM	DEMOLISH ASPHALT SHINGLES, FLASHING, TRIM ITEMS, VAPOR BARRIER, AND OTHER RELATED ITEMS	STANDING SEAM METAL ROOFING (TYPICAL) PER SPECS AND DETAILS.
2	SUBSTRATE AND WOOD BLOCKING	REMOVE ALL UNSUITABLE MATERIALS AS INDICATED IN THE CONSTRUCTION DOCUMENTS. BRING TO THE ATTENTION OF THE GOVERNMENT SCOPE OF WORK DEEMED TO NOT BE INCLUDED.	REPLACE AS NECESSARY (ASSUME 10% FOR BIDDING PURPOSES)
3	RIDGE	DEMO RIDGE ITEMS AND OTHER RELATED ITEMS.	PROVIDE RIDGE. SEE DETAIL 1/A-501.
4	LOUVERS	DEMOLISH LOUVERS, FLASHING, TRIM, AND OTHER RELATED ITEMS.	PROVIDE LOUVERS. SEE DETAIL 3/A-501.
5	VENTS	PROTECT VENT AS NECESSARY. DEMOLISH BOOT VENT, FLASHING, AND OTHER RELATED ITEMS.	PROVIDE VENTS. SEE DETAIL 7/A-501. SEE MECHANICAL FOR ADDITIONAL NOTES.
6	FASCIA BOARDS AND TRIM	DEMOLISH ALL ITEMS.	PROVIDE FASCIA AND TRIM. SEE DETAIL 2/A-103.
7	EXTERIOR SOFFIT	DEMOLISH ALL ITEMS.	PROVIDE EXTERIOR SOFFIT. SEE DETAIL 2/A-103.



2 ROOF EDGE DETAIL
A-103 NTS



5 ROOF EDGE DETAIL
A-103 NTS



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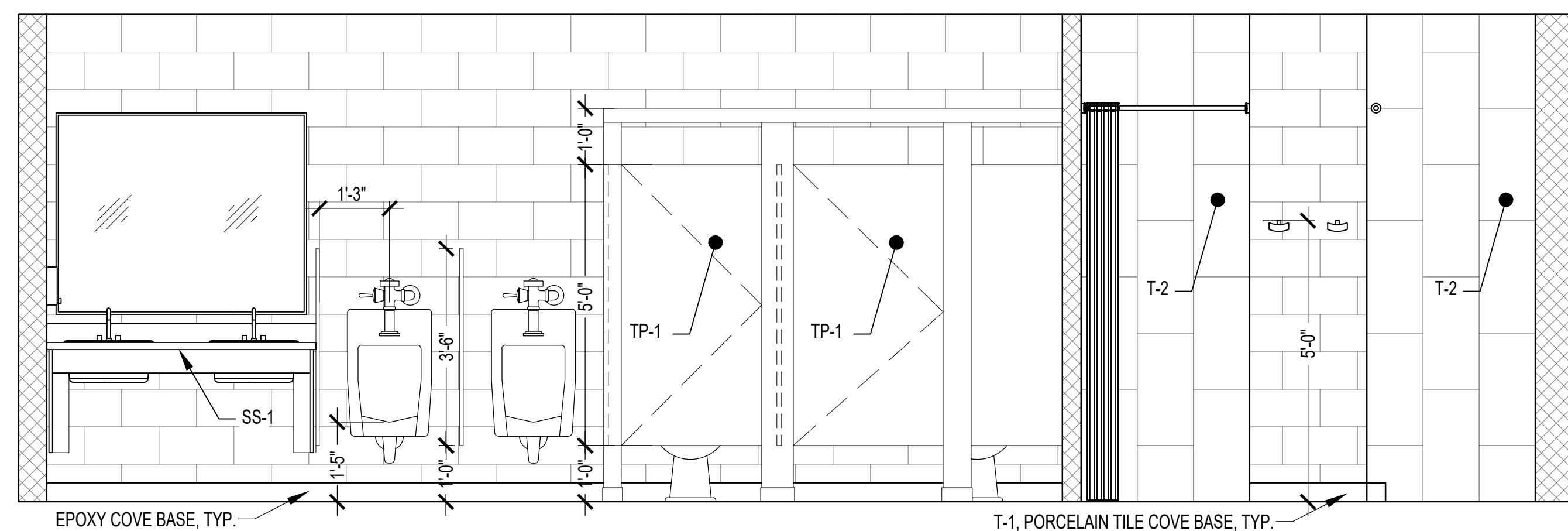
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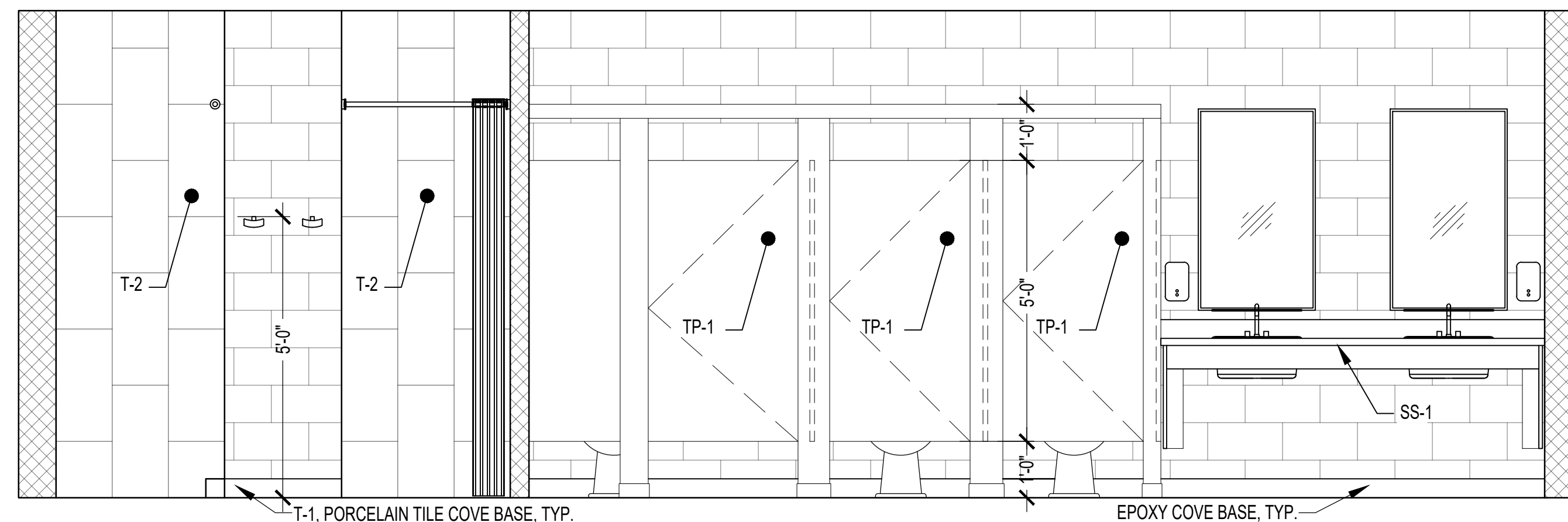
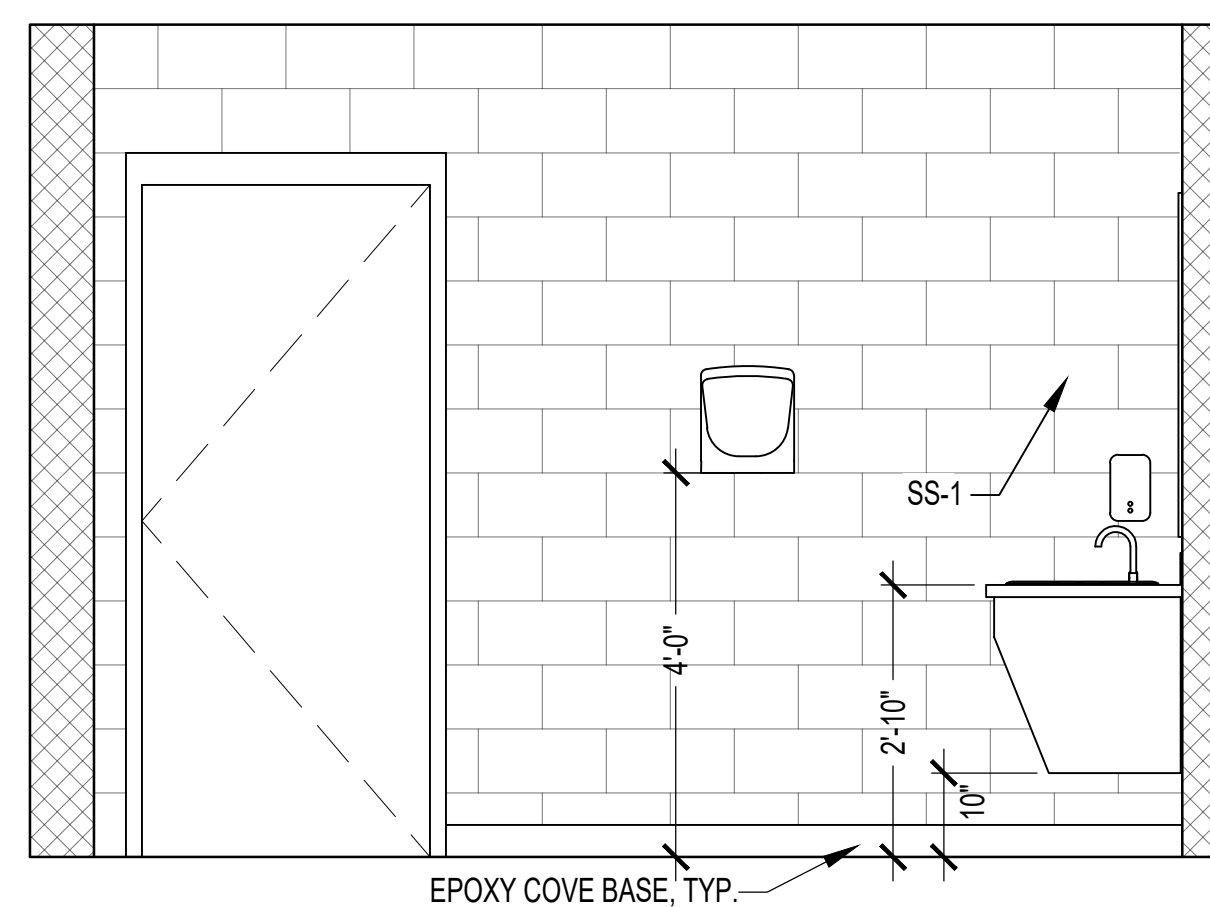
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FINAL		A-103
<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJUNE, NORTH CAROLINA</small>		
BUILDING AS2818 HEAD REPAIRS		
ROOF PLAN AND DETAILS		
DES. M. HUNTER	DATE:	NAVFAC DRAWING NO.
DR. M. HUNTER	DATE:	60039612
CHK. K. ROOT, R.A.	DATE:	CONST. CONTR. NO. 22-0005
SUBMITTED BY: M. HUNTER	DATE:	SCALE: NOTED SPEC. NA SHEET 8 OF 22
DESIGN DIR. J. FRANKLIN ORR, P.E.	DATE:	
APPROVED: PWO OR OICC: PWO or OICC	DATE:	
SATISFACTORY TO:	DATE:	



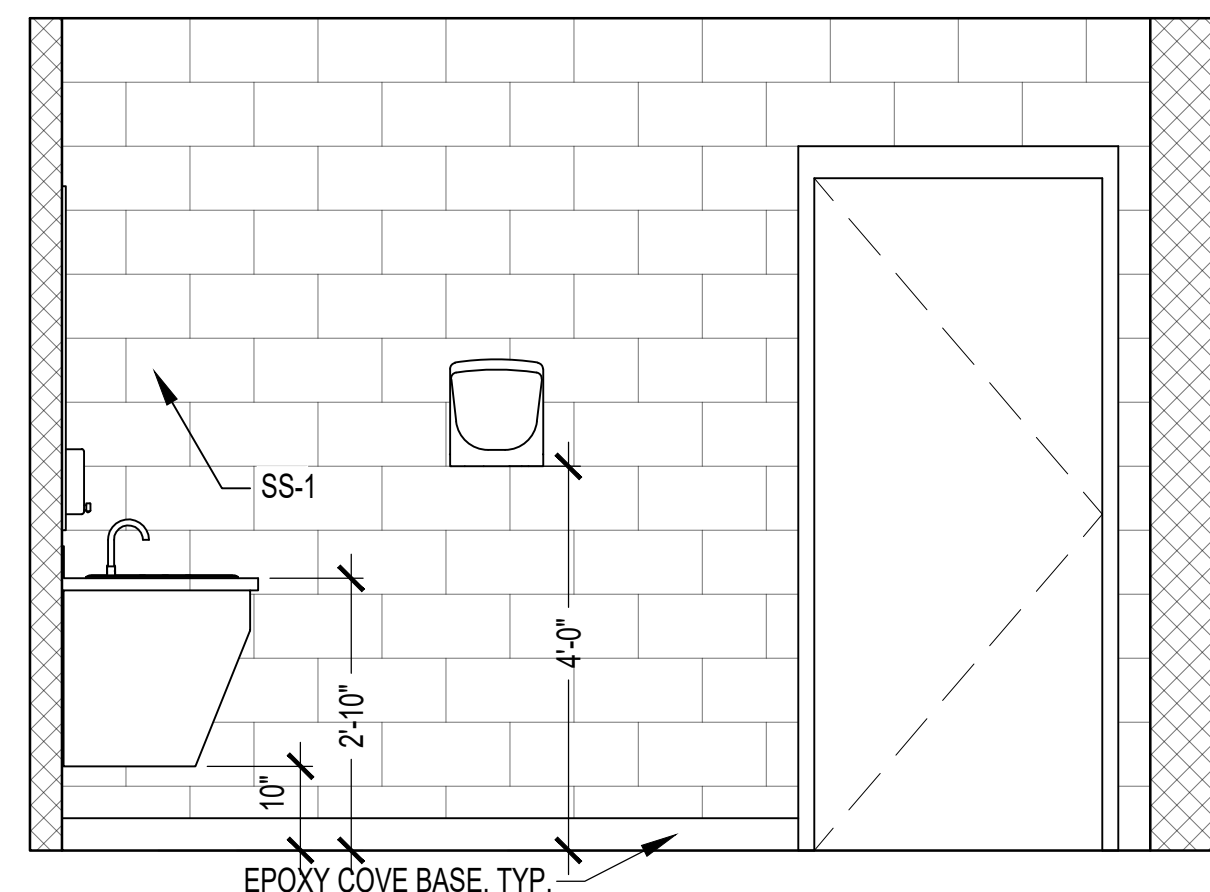
1 MALE HEAD INTERIOR ELEVATION

A-401 1/2" = 1'-0"

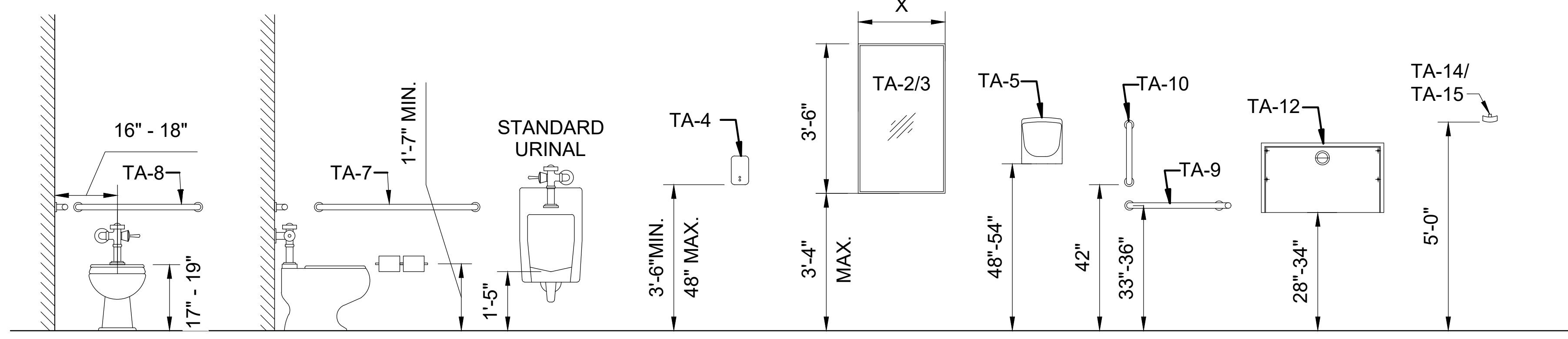


2 FEMALE HEAD INTERIOR ELEVATION

A-401 1/2" = 1'-0"

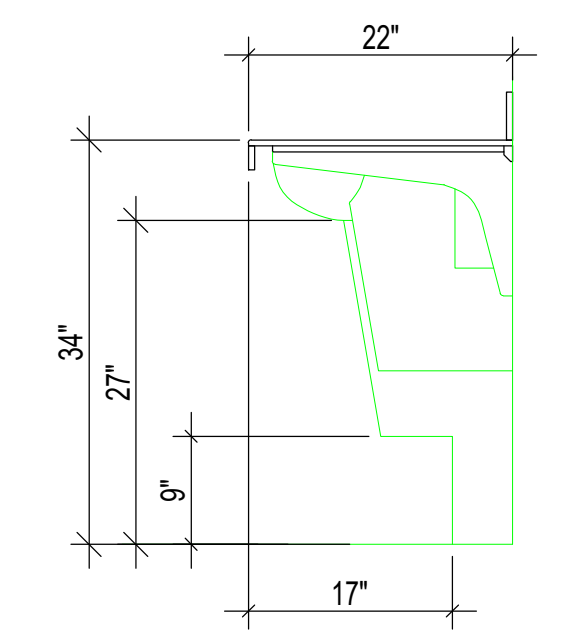


NOTE: HEIGHTS ARE FOR GENERAL USE - ALL ACCESSORIES MAY NOT BE USED FOR THIS PROJECT



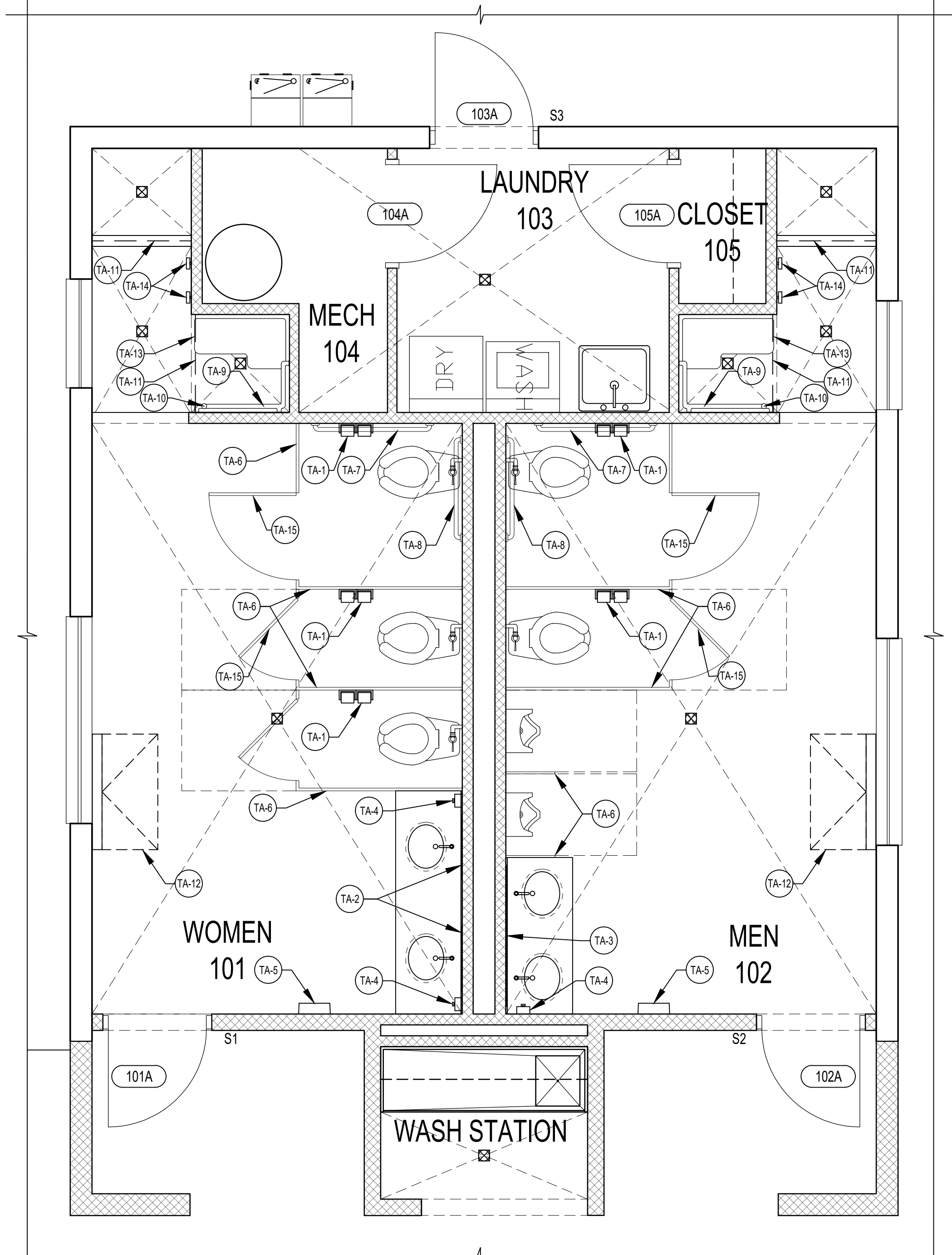
3 TOILET FIXTURE/ACCESSORY MOUNTING HEIGHT DETAIL

A-401 NOT TO SCALE



4 LAVATORY DETAIL

A-401 3/4" = 1'-0"



5 TOILET ACCESSORY PLAN

A-401 3/8" = 1'-0"

TOILET ACCESSORIES SCHEDULE		
MARK	DESCRIPTION	MOUNTING INSTRUCTIONS
TA-1	TOILET TISSUE DISPENSER	MINIMUM 19" A.F.F. MAXIMUM 36" FROM REAR WALL OF STALL.
TA-2	24" X 42" MIRROR WITH STAINLESS STEEL FRAME	MOUNT WITH BOTTOM OF MIRROR AT 40" A.F.F.
TA-3	52" X 42" MIRROR WITH STAINLESS STEEL FRAME	MOUNT WITH BOTTOM OF MIRROR AT 40" A.F.F.
TA-4	WALL MOUNTED SOAP DISPENSER	MOUNT DISPENSER SPOUT AT 42" A.F.F. MINIMUM, 48" A.F.F. MAXIMUM
TA-5	ELECTRIC HAND DRYER	MOUNT 48"-54" A.F.F.
TA-6	TOILET/URINAL PARTITION	THROUGH-BODY COLOR PHENOLIC PANELS. OVERHEAD-BRACED COMPARTMENTS.
TA-7	STAINLESS STEEL GRAB BAR 1 1/2" DIA. X 42" L	MOUNT 36" A.F.F. TO CENTERLINE
TA-8	STAINLESS STEEL GRAB BAR 1 1/2" DIA. X 36" L	MOUNT 36" A.F.F. TO CENTERLINE
TA-9	L-SHAPED STAINLESS STEEL GRAB BAR 1 1/2" DIA. X 30" L X 18" D	MOUNT 33"-36" A.F.F. TO CENTERLINE.
TA-10	VERTICAL STAINLESS STEEL GRAB BAR 1 1/2" DIA. X 18" L	MOUNT 42" A.F.F.
TA-11	SHOWER CURTAIN ROD 1 1/2" DIA. X 36" L. PROVIDE CURTAIN	MOUNT 84" A.F.F. TO CENTERLINE
TA-12	BABY CHANGING STATION	MOUNT 28" TO 34" A.F.F.
TA-13	FOLDING SHOWER SEAT	MOUNT 17"-19" A.F.F.
TA-14	TOWEL HOOK	MOUNT 60" A.F.F.
TA-15	BAG HOOK	MOUNT 60" A.F.F. ON TOILET PARTITION.

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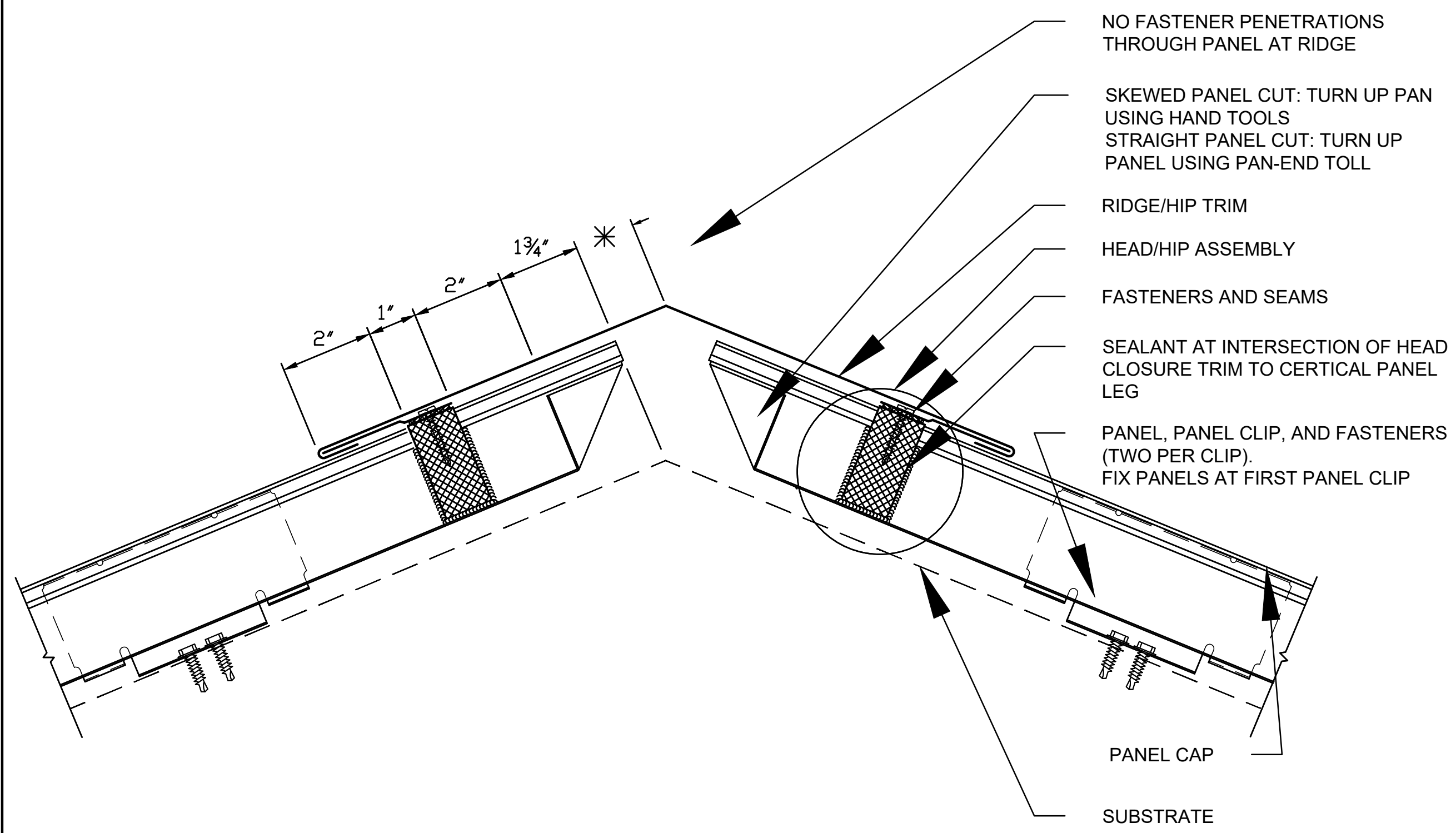
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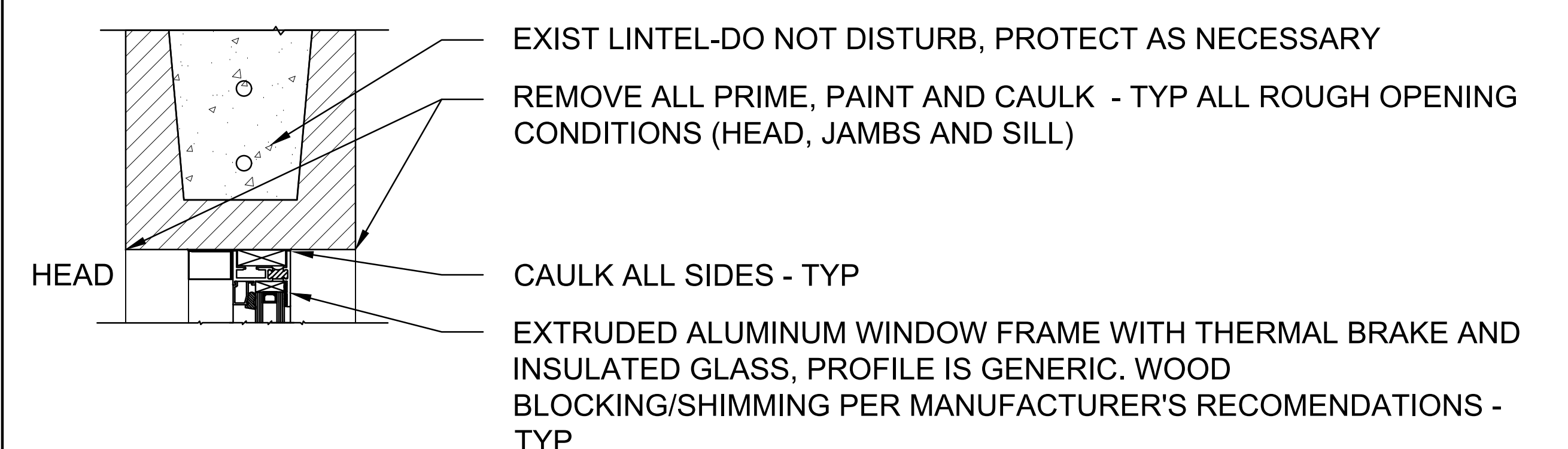
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C. THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.

FINAL		A-401	
<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJUNE, NORTH CAROLINA</small>			
BUILDING AS2818 HEAD REPAIRS			
INTERIOR ELEVATIONS, SCHEDULES, DETAILS			
DES. M. HUNTER	DR. M. HUNTER	DATE: _____	SIZE: E1
CHK. K. ROOT, R.A.	DESIGN DIR. J. FRANKLIN ORR, P.E.	DATE: _____	CODE IDENT. NO. 80091
APPROVED: PWO OR OICC: PWO or OICC	DATE: _____	DATE: _____	NAVAFAC DRAWING NO. 60039613
SATISFACTORY TO: _____	DATE: _____	DATE: _____	CONST. CONTR. NO. _____
SCALE: NOTED	SPEC. NA	SHEET 9	OF 22



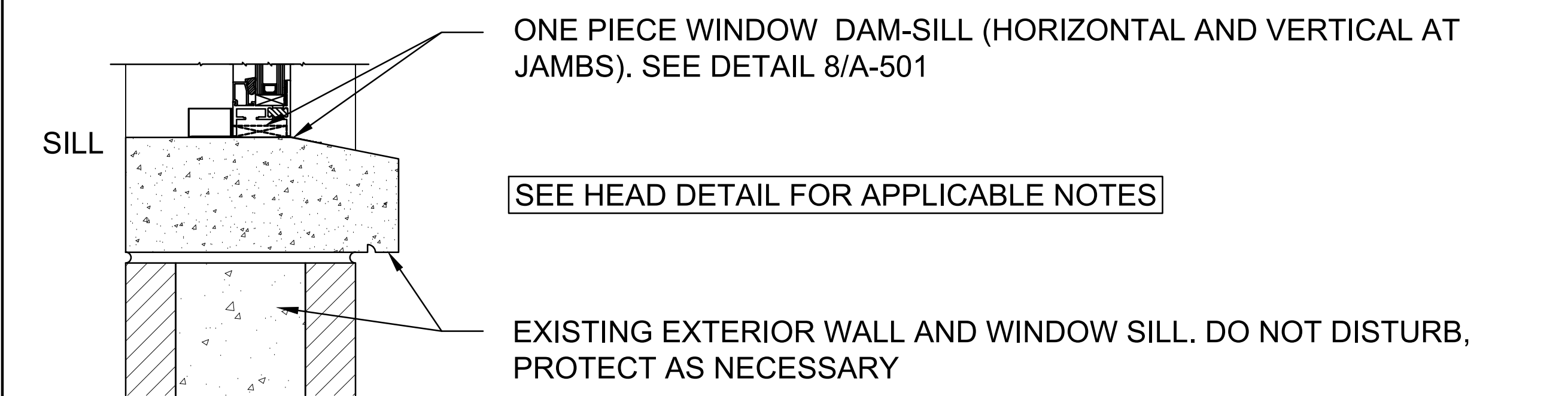
1 ROOF RIDGE
A-501 NTS



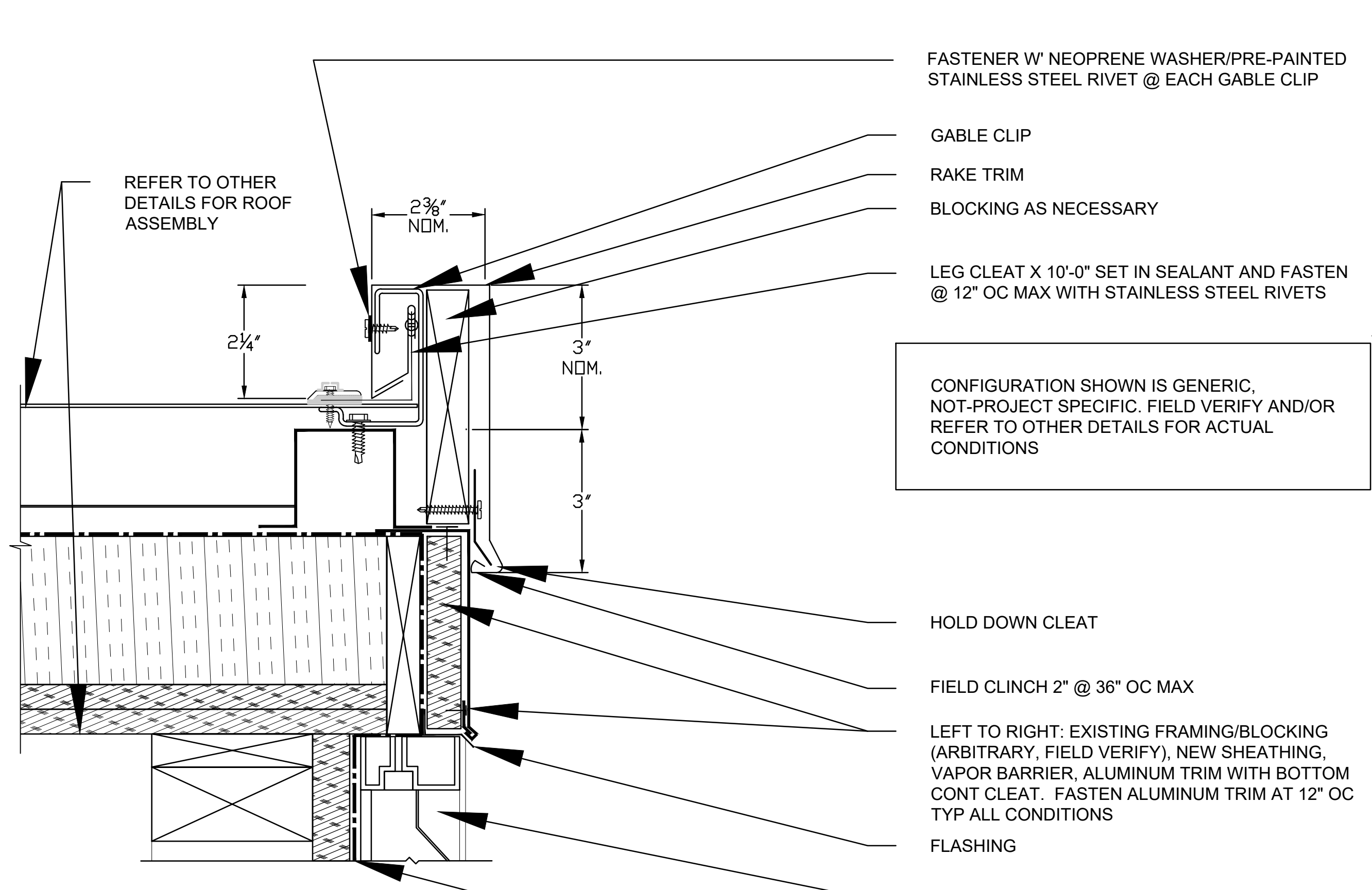
4 WINDOW HEAD
A202 3"= 1'-0"



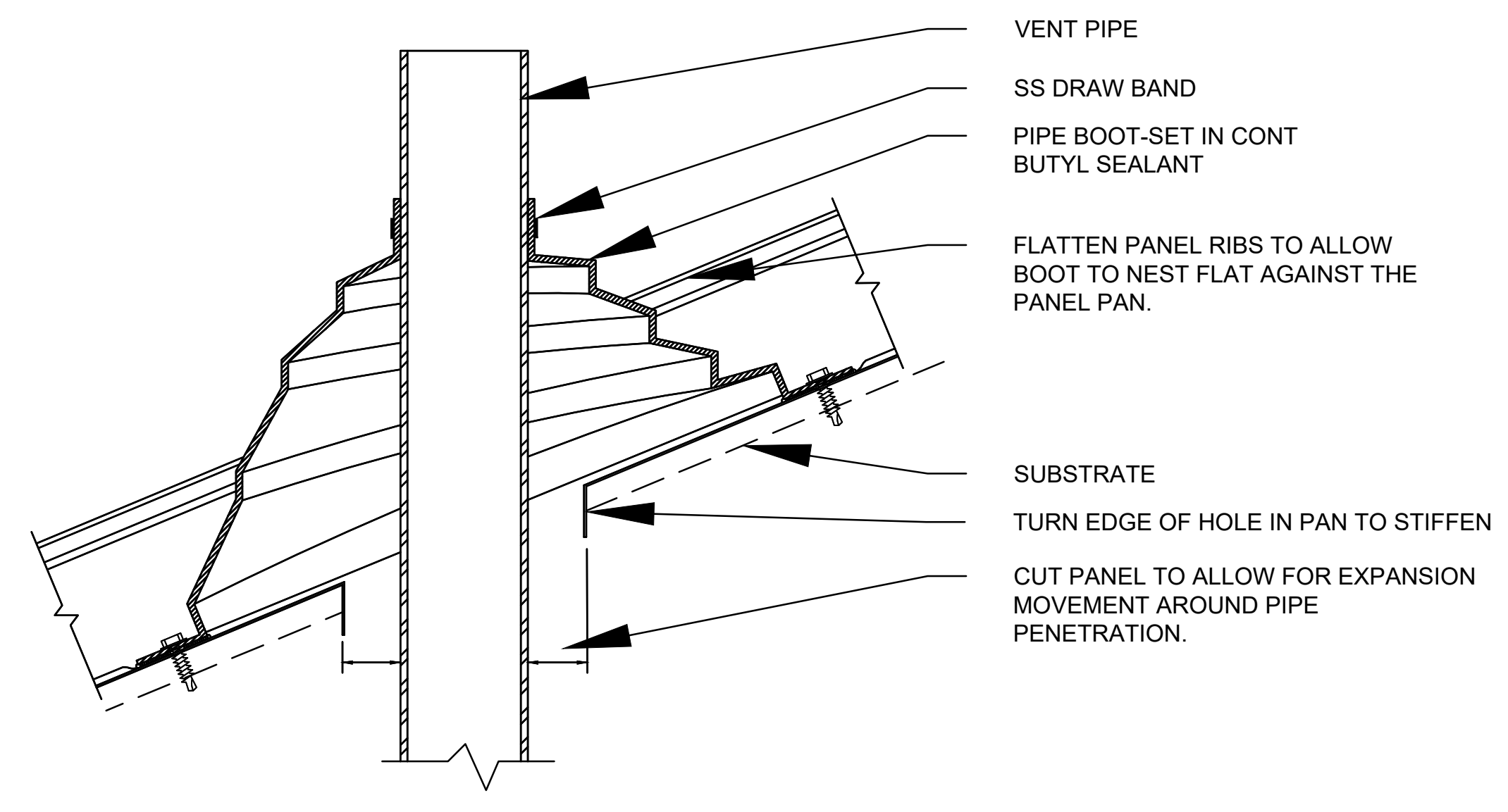
5 WINDOW JAMB
A-501 3"= 1'-0"



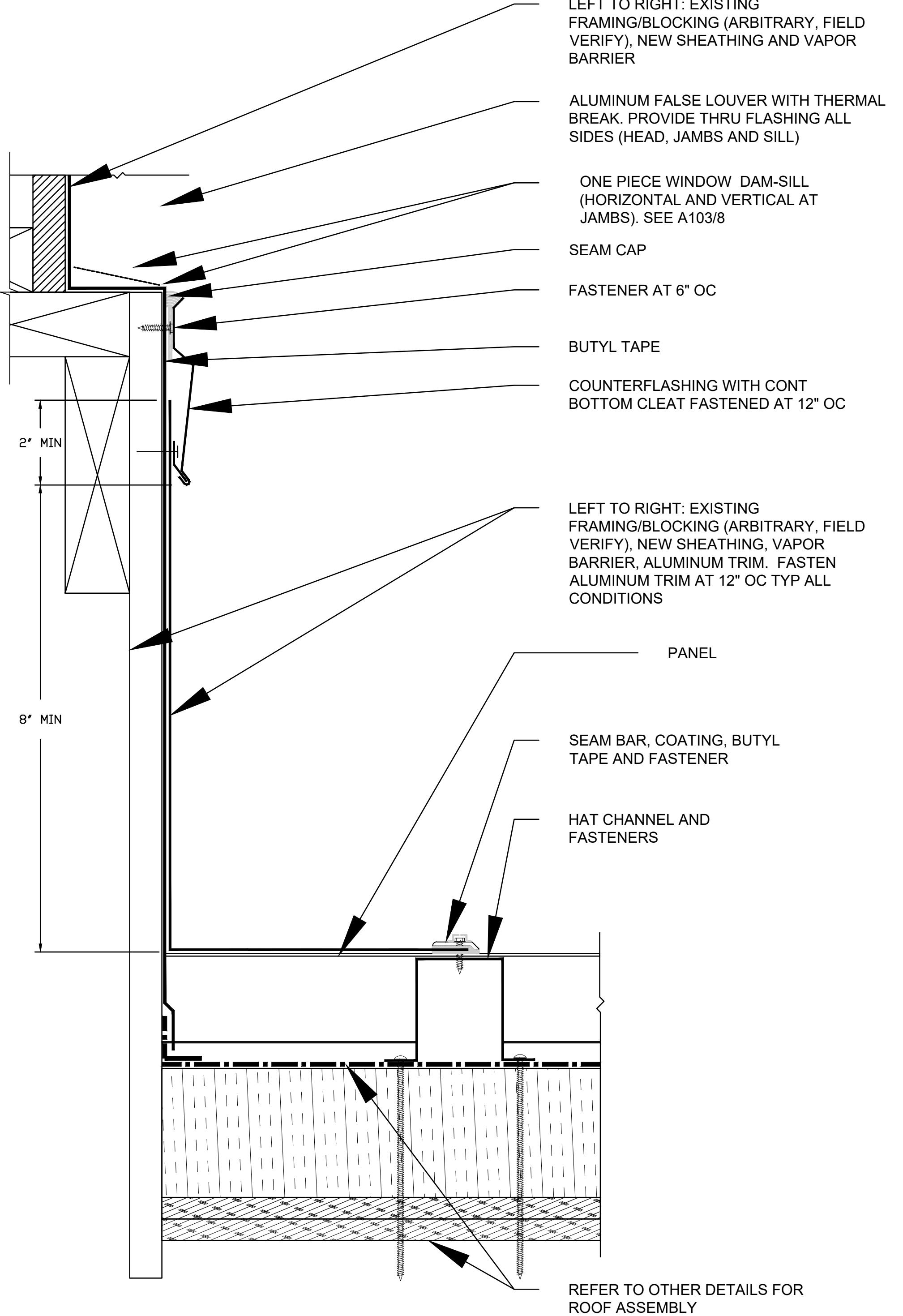
6 WINDOW SILL
A-501 3"= 1'-0"



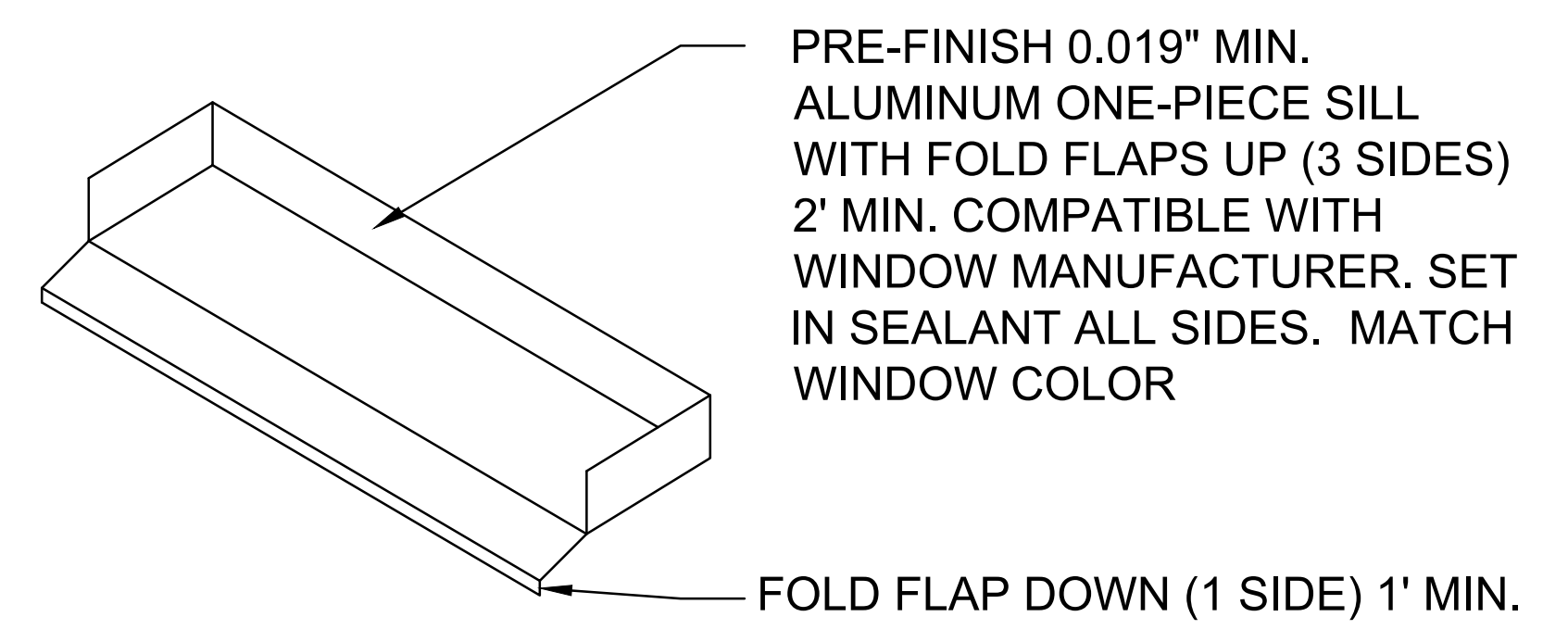
2 ROOF LOUVER DETAIL - RAKE/HEAD
A-501 NTS



7 ROOF VENT DETAIL
A-501 NTS



3 ROOF LOUVER DETAIL - SILL
A-501 NTS



8 ONE-PIECE WINDOW SILL PAN FLASHING
A-501 NTS

<p>DISCLOSURE OF INFORMATION CONTRACTOR SHALL COMPLY AS FOLLOWS:</p> <p>A. THE CONTRACTOR SHALL NOT RELEASE TO ANYONE OUTSIDE THE CONTRACTOR'S ORGANIZATION ANY UNCLASSIFIED INFORMATION, REGARDLESS OF MEDIUM (E.G., FILM, TAPE, DOCUMENT), PERTAINING TO ANY PART OF THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT, UNLESS:</p> <p>(1) THE CONTRACTING OFFICER HAS GIVEN PRIOR WRITTEN APPROVAL; OR</p> <p>(2) THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.</p> <p>B. REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED, THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED DATE FOR RELEASE.</p> <p>C. THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.</p>		<p>FINAL</p>		<p>A-501</p>
		<p>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</p> <p>MARINE CORPS BASE</p> <p>CAMP LEJUNE, NORTH CAROLINA</p> <p>BUILDING AS2818</p> <p>HEAD REPAIRS</p> <p style="text-align: right;">DETAILS</p>		
DES. M. HUNTER	DR. M. HUNTER	CHK. K. ROOT, R.A.	DESIGN DIR. J. FRANKLIN ORR, P.E.	APPROVED: PWO OR OICC: PWO or OICC
DATE:	DATE:	DATE:	DATE:	DATE:
SIZE E1	CODE IDENT. NO. 80091	NAVFAC DRAWING NO. 60039614	CONST. CONTR. NO. 22-0005	
SATISFACTORY TO:	SCALE: NOTED	SPEC. NA	SHEET 10 OF 22	

DOOR SCHEDULE										
DOOR DATA				FRAME DATA		DETAILS				
MARK	TYPE	THICKNESS	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL	HARDWARE	REMARKS
101A	A	0'-1 3/4"	H.M.	F1	H.M.	1/A-601	1/A-601	2/A-601	HW-1	20" X 20" LOUVER
102A	A	0'-1 3/4"	H.M.	F1	H.M.	1/A-601	1/A-601	2/A-601	HW-1	20" X 20" LOUVER
103A	A	0'-1 3/4"	H.M.	F1	H.M.	1/A-601	1/A-601	2/A-601	HW-1	20" X 20" LOUVER
104A	B	0'-1 3/4"	H.M.	F1	H.M.	1/A-601	1/A-601	2/A-601	HW-2	
105A	B	0'-1 3/4"	H.M.	F1	H.M.	1/A-601	1/A-601	2/A-601	HW-2	

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL DOOR AND FRAME DIMENSIONS IN FIELD PRIOR TO ORDERING UNITS. SEE PLAN LOCATIONS FOR SPECIFIC HANDING AND ORIENTATION.

DOOR AND FRAME TYPES CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO INSTALLATION.

DOOR TYPES

HOLLOW METAL FRAME TYPES

F1

- INSULATED
- FILL W/ GROUT
- FACTORY PRIMED
- FIELD PAINTED

HARDWARE SETS

HW-1	HW-2
3 HINGES 1 CLOSURE W/ DEAD STOP 2 PUSH-PULL PLATES 1 DEAD BOLT 3 SILENCERS 1 DOORSTOP	AS133, 4 1/2" X 4 1/2", 600 C02011 200, 608 E0161 L00111
3 HINGES 1 LOCKSET 3 SILENCERS 1 DOORSET	AS133, 4 1/2" X 4 1/2", 600 F81 X 626 L00111 L01211

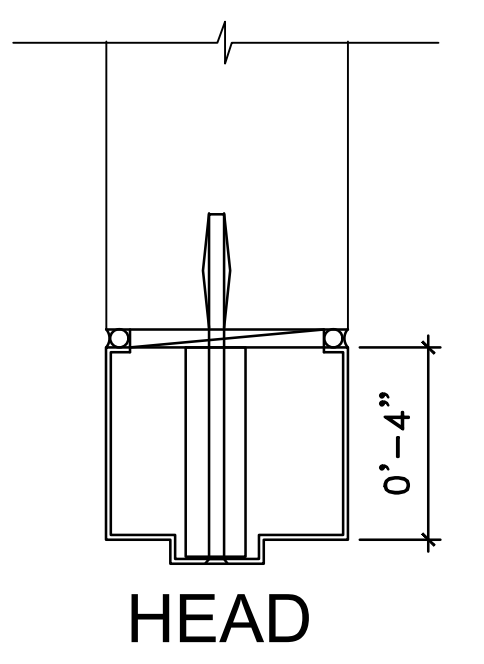
WINDOW SCHEDULE										
								FRAME DETAILS		
MARK	COUNT	WIDTH	HEIGHT	GLAZING	MATERIAL	FRAME	COATING	HEAD	JAMB	SILL
W1	2	6'-0 1/2"	2'-0 3/8"	CLEAR	ALUMINUM	PRE-FINISHED	PVDF	4/A-501	5/A-501	6/A-501 & 8/A-501
W2	2	3'-0 1/2"	2'-0 3/8"	CLEAR	ALUMINUM	PRE-FINISHED	PVDF	4/A-501	5/A-501	6/A-501 & 8/A-501

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL WINDOW AND FRAME DIMENSIONS IN FIELD PRIOR TO ORDERING UNITS. SEE PLAN AND WINDOW DETAILS.

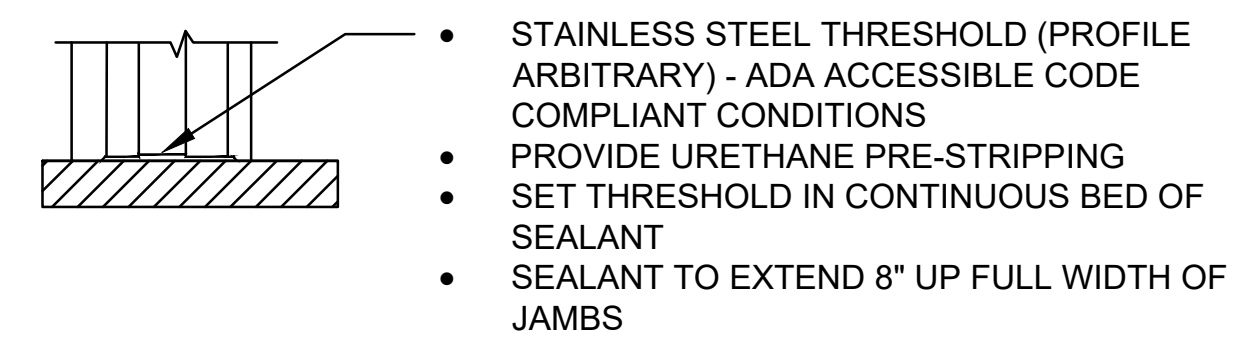
WINDOW TYPES CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO INSTALLATION.

W1

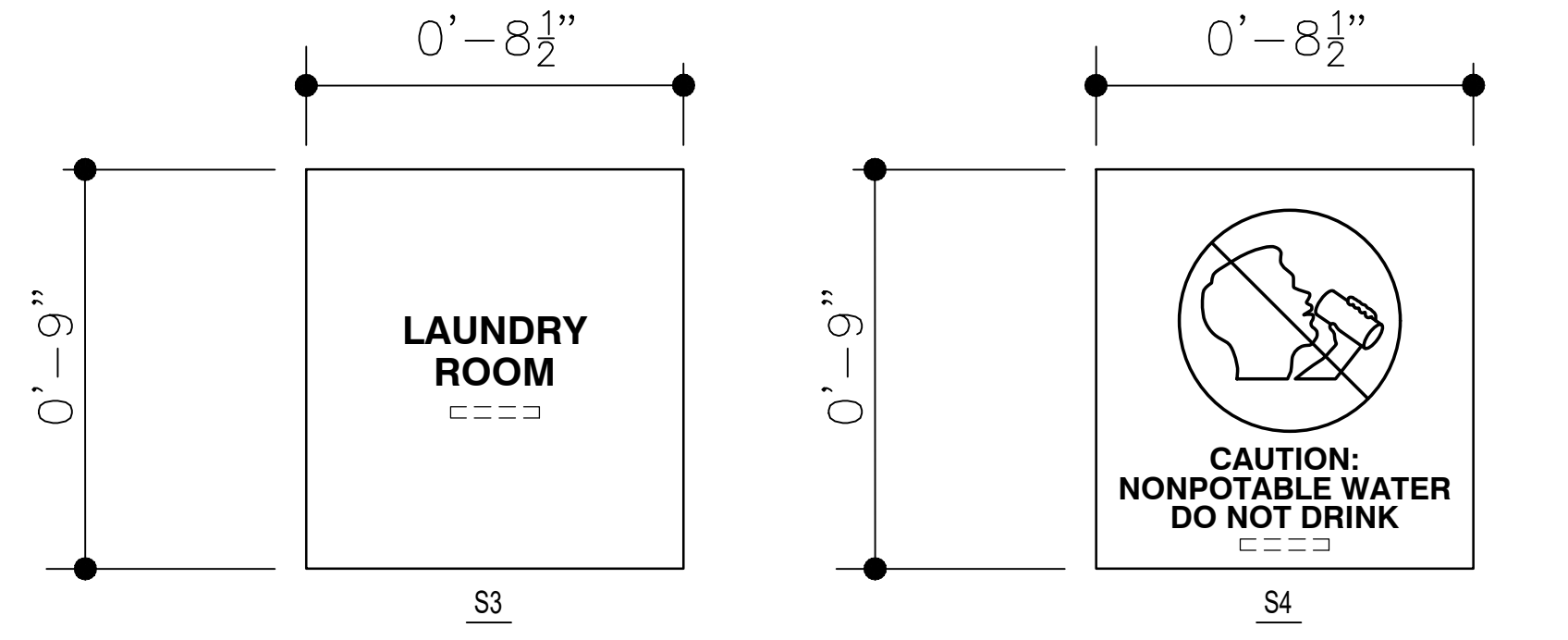
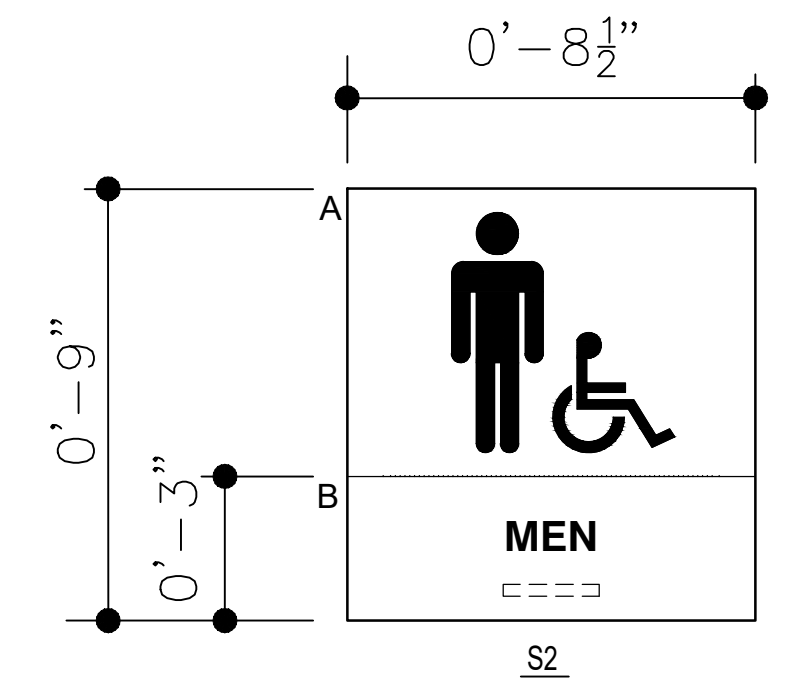
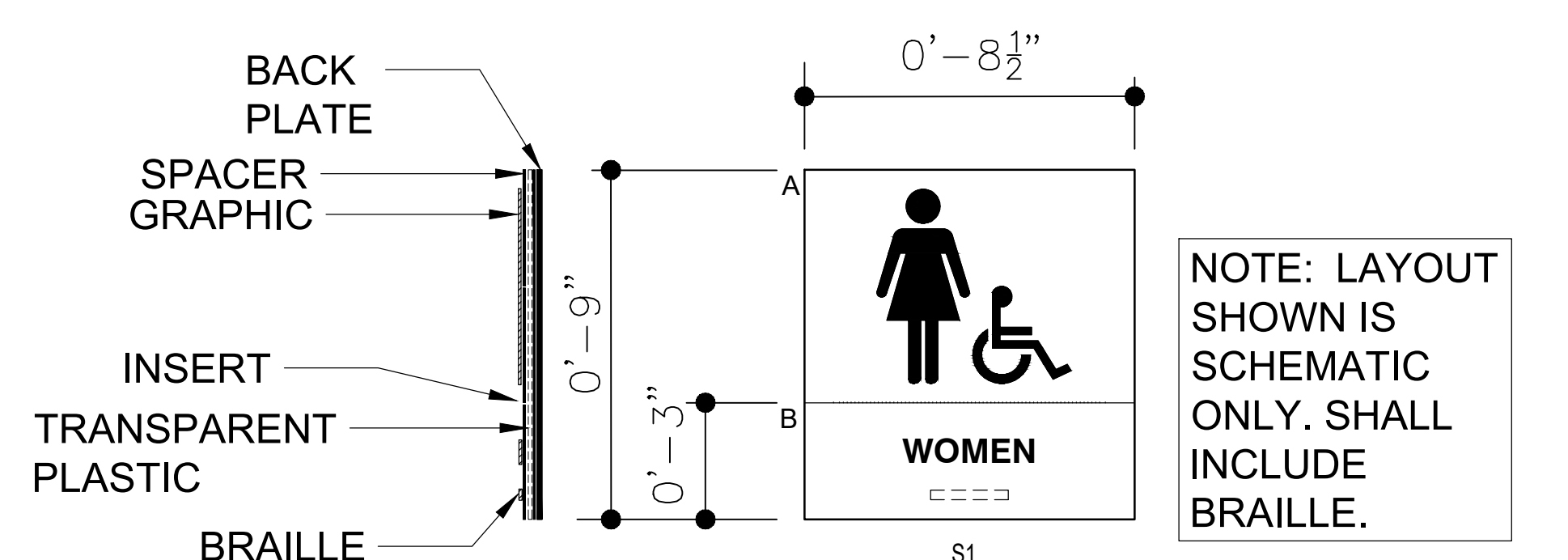
W2



- 1 DOOR HEAD/JAMB DETAIL
A-601 NTS
- PREPARED MASONRY (WELDED-ON ANCHOR).
 - COUNTERSUNK 3/8" FLAT HEAD BOLT WITH 3/8" EXPANSION SHIELDS.
 - JAMB SHOULD BE 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED.

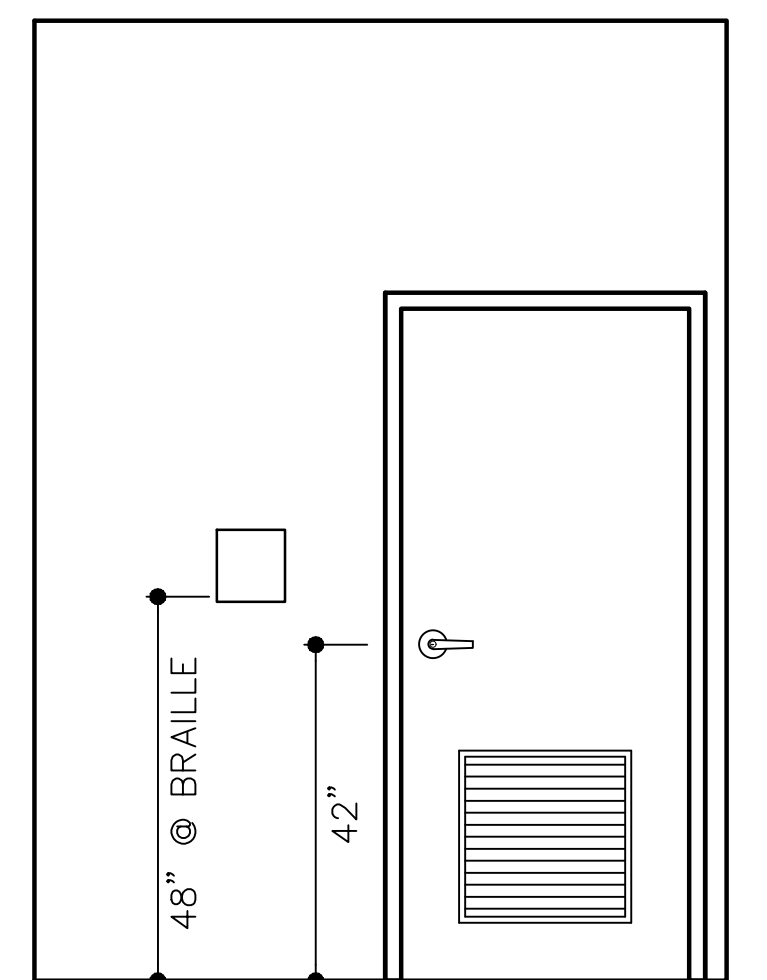


2 DOOR SILL DETAIL
A-601 NTS



NOTE: PROVIDE SIGN S4 ADJACENT TO YARD HYDRANT AND SANITARY SEWER DUMPING STATION

3 SIGNAGE
A-601 NTS



4 SIGNAGE LOCATION
A-601 NTS

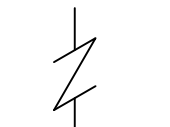
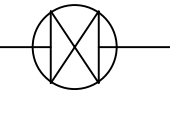
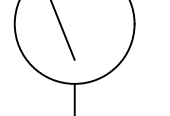
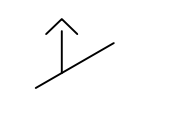
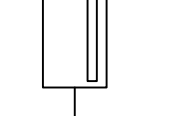

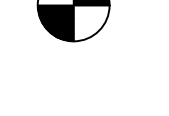
DISCLOSURE OF INFORMATION CONTRACTOR SHALL COMPLY AS FOLLOWS:		FINAL		A-601	
A. THE CONTRACTOR SHALL NOT RELEASE TO ANYONE OUTSIDE THE CONTRACTOR'S ORGANIZATION ANY UNCLASSIFIED INFORMATION, REGARDLESS OF MEDIUM (E.G., FILM, TAPE, DOCUMENT), PERTAINING TO ANY PART OF THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT, UNLESS:		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJUNE, NORTH CAROLINA			
(1) THE CONTRACTING OFFICER HAS GIVEN PRIOR WRITTEN APPROVAL; OR		DES. M. HUNTER			
(2) THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.		DR. M. HUNTER			
B. REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED, THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED DATE FOR RELEASE.		CHK. K. ROOT, R.A.			
C. THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.		SUBMITTED BY: M. HUNTER			
		DESIGN DIR. J. FRANKLIN ORR, P.E.			
		APPROVED: PWO OR OICC:		DATE: SIZE CODE IDENT. NO. NAVFAC DRAWING NO.	
		PWO OR OICC		E1 80091 60039615	
		SATISFACTORY TO:		DATE: CONST. CONTR. NO. 22-0005	
		SCALE: NOTED		SPEC. NA SHEET 11 OF 22	

REVISIONS			
SYM	DATE	APPROVED	

GENERAL CONSTRUCTION NOTES:

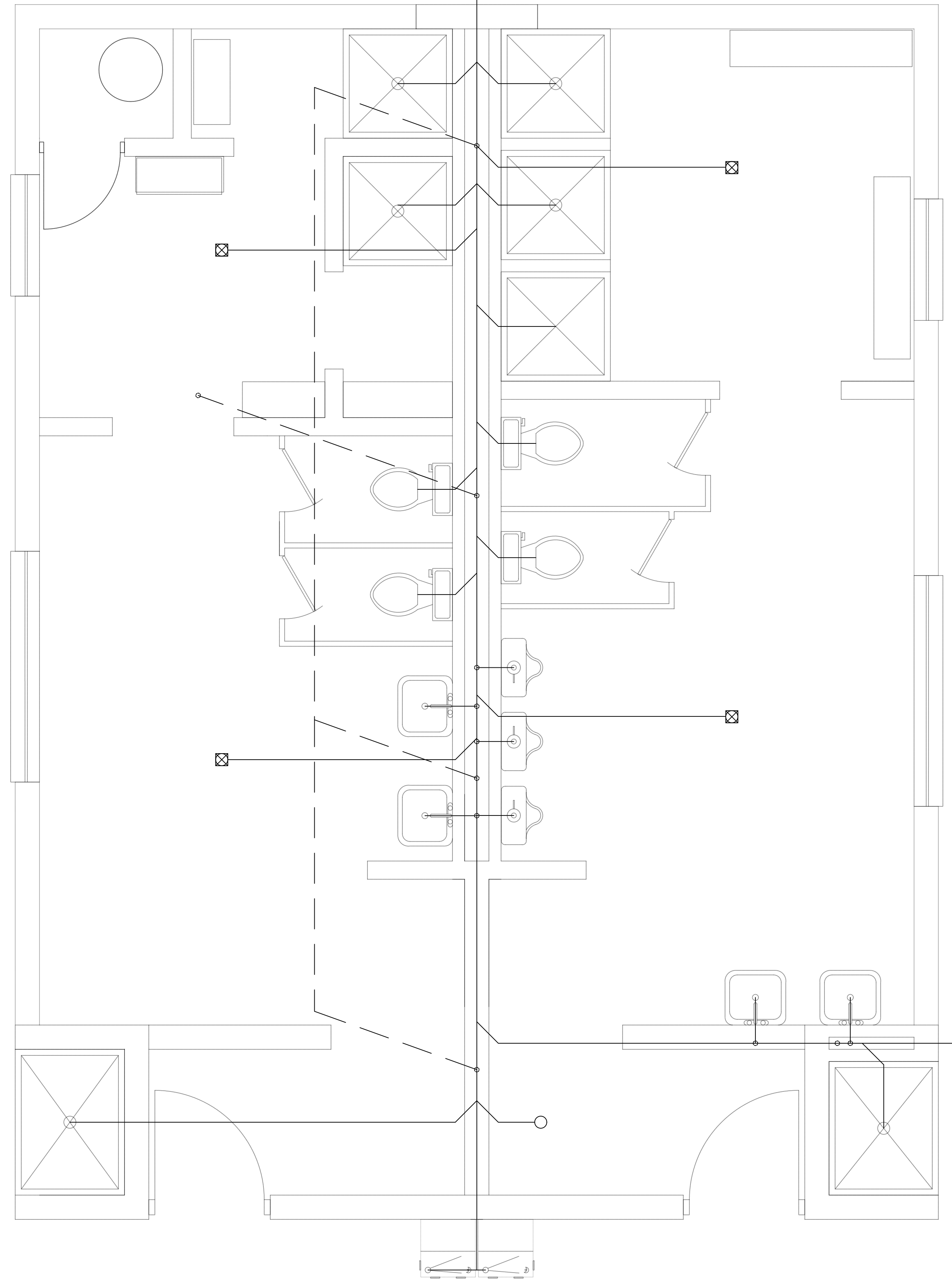
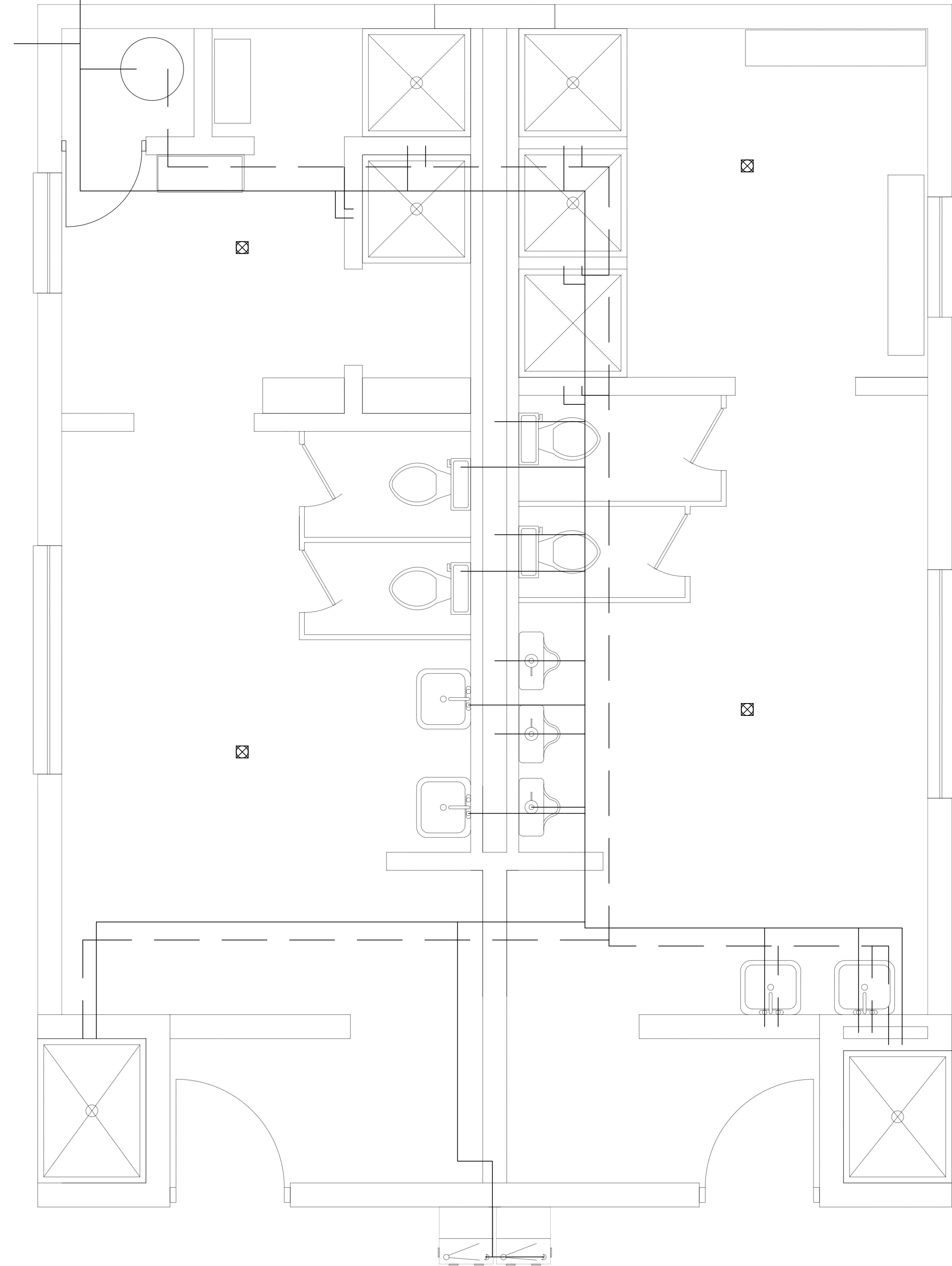
1. NOT ALL WORK IS EXPLICITLY SHOWN ON THE DRAWINGS. MAKE ALL NECESSARY MINOR CORRECTIONS AND ADJUSTMENTS TO DELIVER A FULLY FUNCTIONAL AND COMPLETE SYSTEM.
2. ALL UNDERGROUND WATER PIPING MUST BE TYPE-K COPPER. ALL ABOVEGROUND WATER PIPING MUST BE TYPE-L OR TYPE-K COPPER. PRESS FIT OR PUSH FIT CONNECTIONS ARE NOT PERMITTED.
3. DEMOLISH ALL EXISTING PLUMBING FIXTURES AND PIPING. DO NOT REUSE ANY EXISTING COMPONENTS OR PIPING.
4. ALL WASTE AND VENT PIPE MUST BE SCHEDULE 40 PVC.
5. SEE CIVIL DRAWINGS FOR BACKFLOW PREVENTER AND YARD HYDRANT LOCATION.

LEGEND

- CHECK VALVE 
- BALL VALVE 
- PRESSURE GAUGE 
- AUTOMATIC AIR VENT 
- TEMPERATURE GAUGE 
- EXTENT OF DEMOLITION 
- POINT OF CONNECTION 

SEE CIVIL DRAWINGS FOR CONTINUATION

SEE CIVIL DRAWINGS FOR CONTINUATION



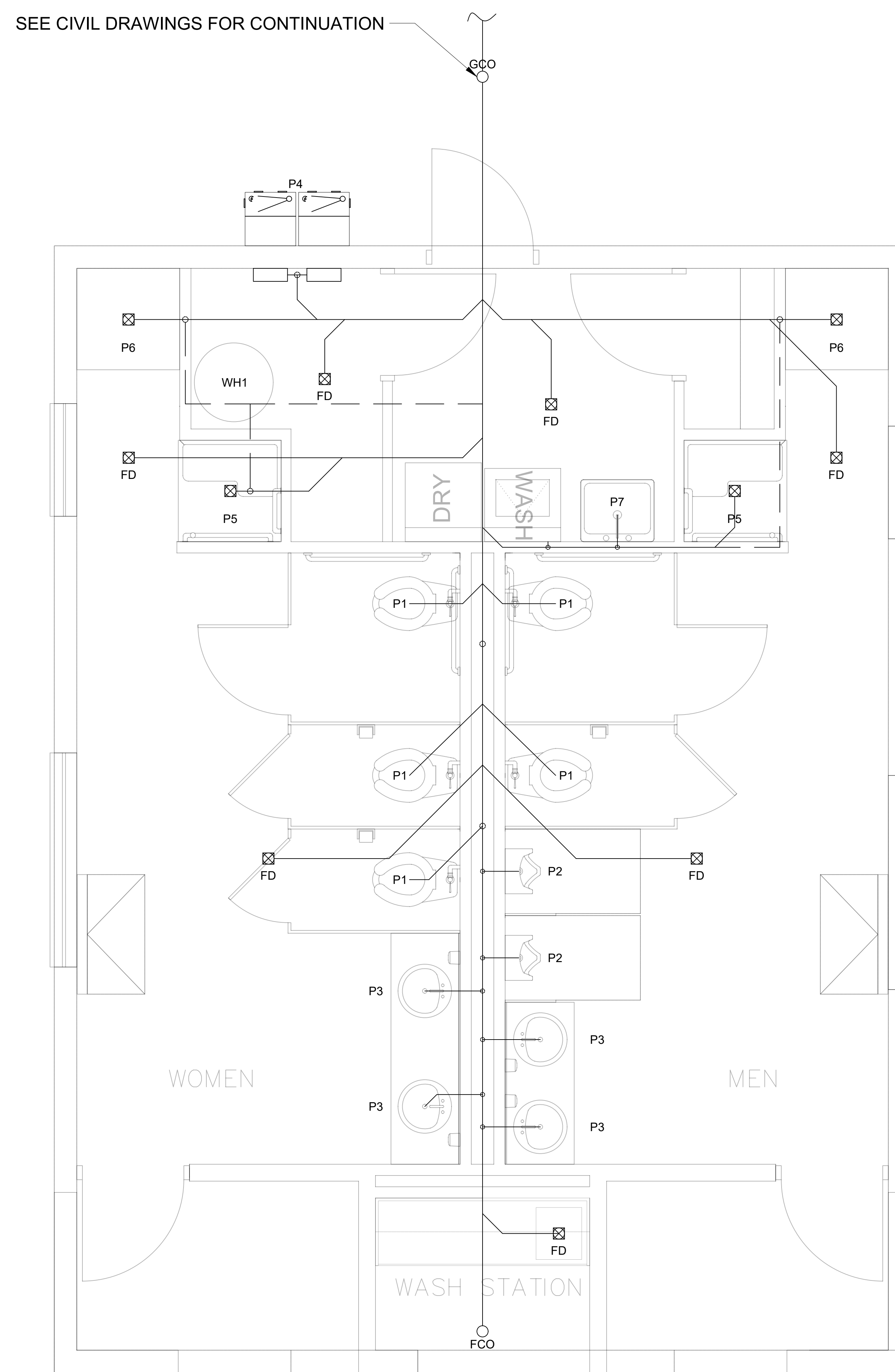
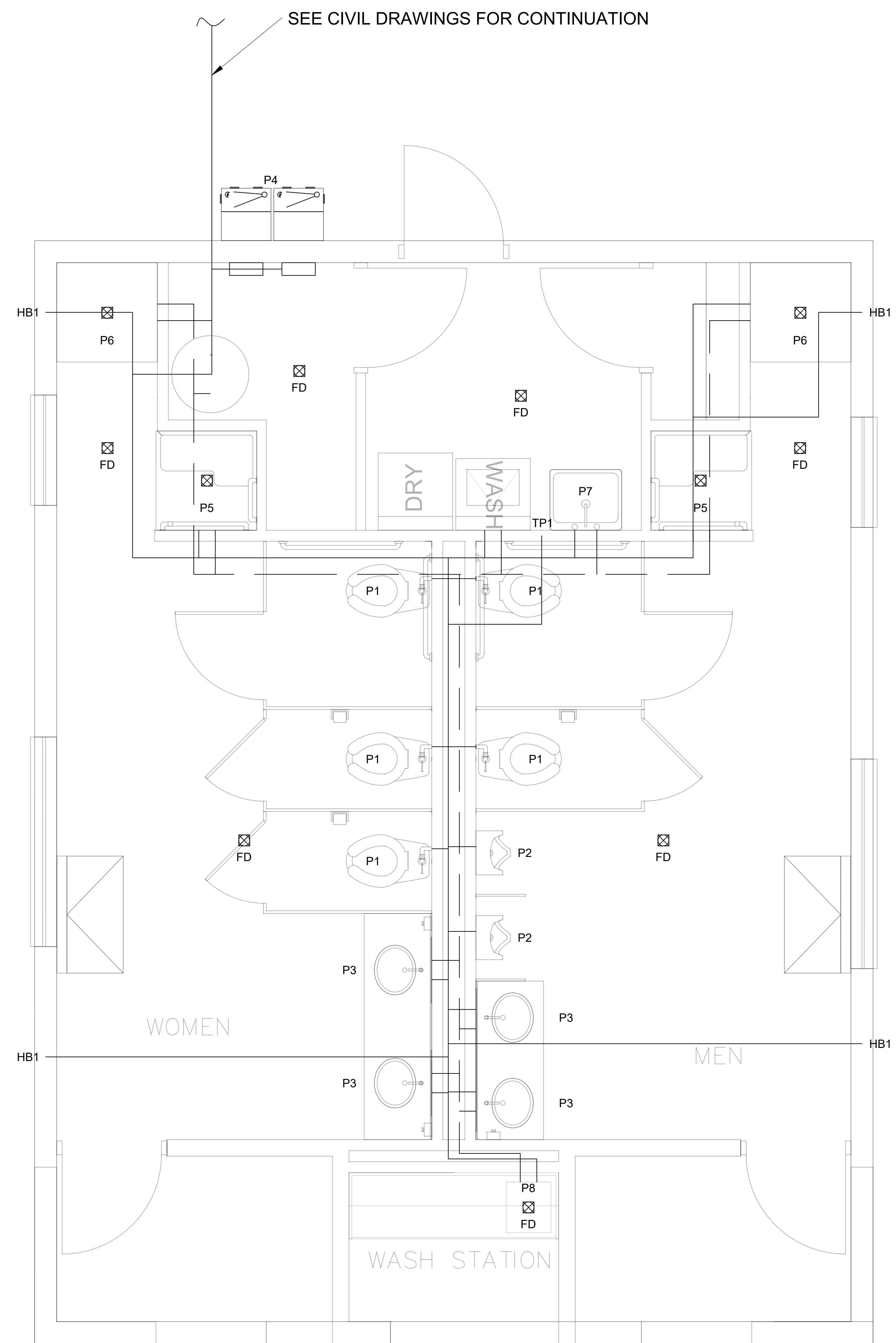
1 COLD WATER & HOT WATER DEMO
P-1 SCALE: 1/2" = 1'

2 WASTE AND VENT DEMO
P-1 SCALE: 1/2" = 1'



FINAL		P1	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND			
MARINE CORPS BASE			
CAMP LEJEUNE, NORTH CAROLINA			
AS2818 HEAD REPAIRS			
DES. C J MAAS		PLUMBING DEMOLITION	
DR. C J MAAS		SIZE CODE IDENT. NO.	
CHK. J A ELLIOTT		NAVFAC DRAWING NO.	
SUBMITTED BY: C J MAAS		60039616	
DESIGN DIR. J F ORR P.E.		CONST. CONTR. 22-0005	
APPROVED: PWO OR OICC	DATE	E1 80091	SCALE: NOTED SPEC. 05-22-0005
SATISFACTORY TO:	DATE	SHEET 12 OF 22	

REVISIONS		
SYM	DATE	APPROVED



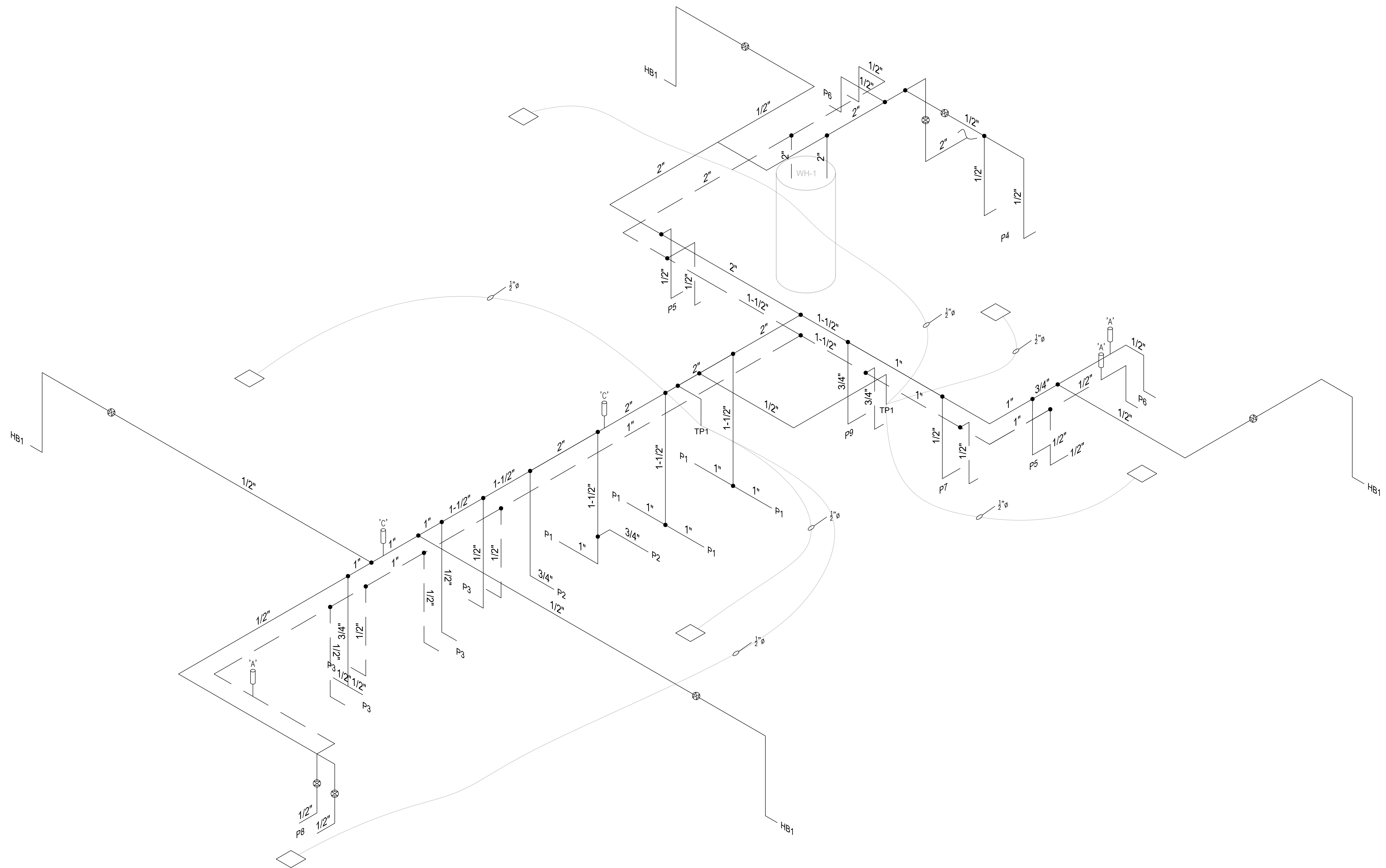
1 COLD WATER & HOT WATER PLAN
P-2 SCALE: 1/2" = 1'

2 WASTE AND VENT PLAN
P-2 SCALE: 1/2" = 1'



FINAL		P2	
DES. C J MAAS		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
DR. C J MAAS		MARINE CORPS BASE	
CHK. J A ELLIOTT		CAMP LEJUNE, NORTH CAROLINA	
SUBMITTED BY: C J MAAS		AS2818 HEAD REPAIRS	
DESIGN DIR. J F ORR P.E.		PLUMBING NEW WORK	
APPROVED: PWO OR OICC	DATE	SIZE CODE IDENT. NO	NAVFAC DRAWING NO.
		E1 80091	60039617
SATISFACTORY TO:	DATE	CONST. CONTR.	22-0005
		SCALE: NOTED	SPEC. 05-22-0005
		SHEET 13 OF 22	

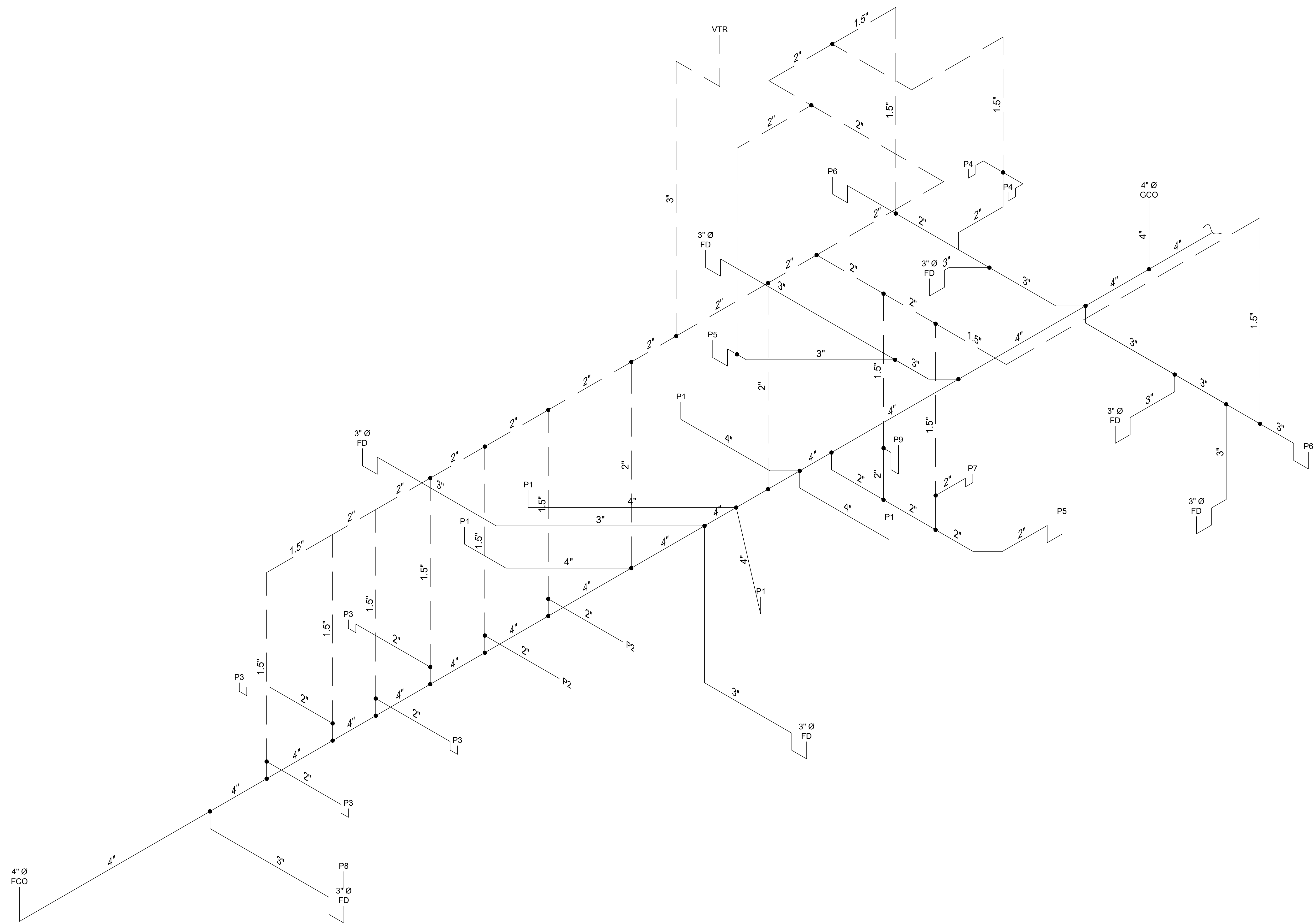
REVISIONS			
SYM	DATE	APPROVED	



1 WATER ISOMETRIC
P-3 SCALE: N.T.S.

FINAL		P3	
<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJUNE, NORTH CAROLINA</small>			
DES. C J MAAS		AS2818 HEAD REPAIRS	
DR. C J MAAS		<small>NAVY FACILITIES ENGINEERING COMMAND</small> 60039618	
CHK. J A ELLIOTT			
SUBMITTED BY: C J MAAS		<small>CONST. CONTR.</small> 22-0005	
DESIGN DIR. J F ORR P.E.			
APPROVED: PWO OR OICC	DATE	SIZE	CODE IDENT. NO.
		E1	80091
SATISFACTORY TO:	DATE	SCALE: NOTED	SPEC. 05-22-0005
			SHEET 14 OF 22

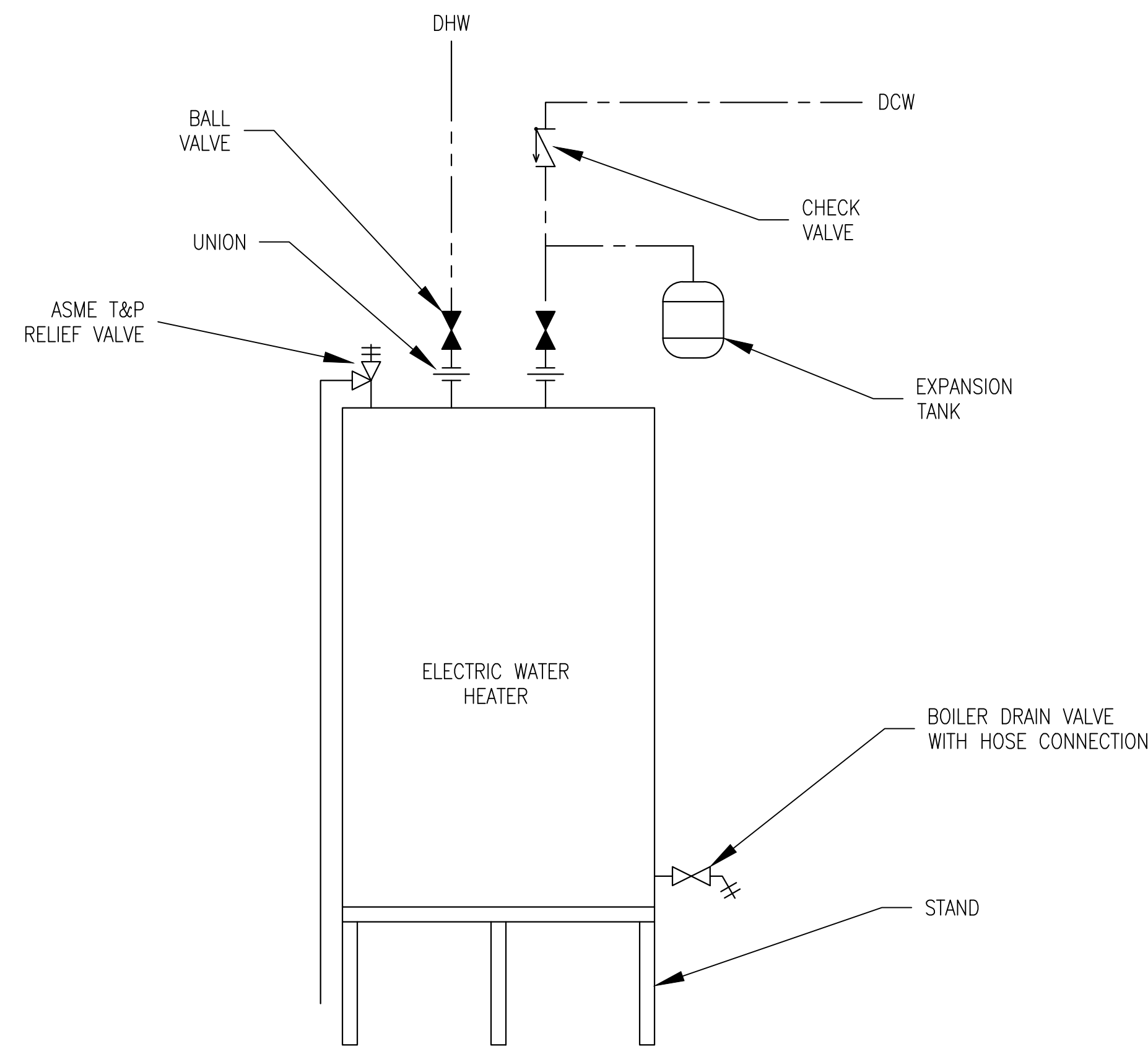
REVISIONS		
SYM	DATE	APPROVED



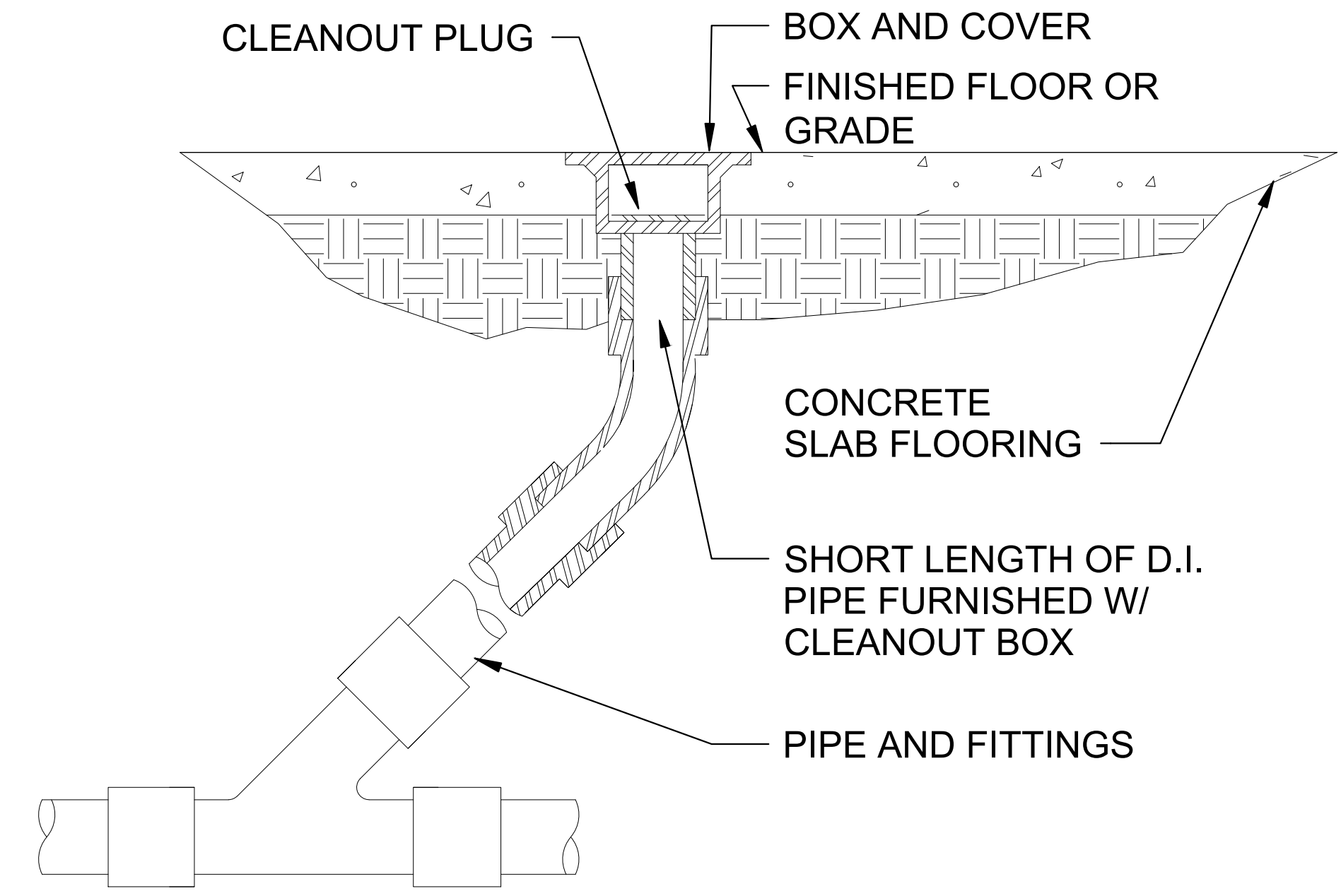
1 WASTE AND VENT ISOMETRIC
 P-4 SCALE: N.T.S.

FINAL		P4	
<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJUNE, NORTH CAROLINA</small>			
DES. C J MAAS		AS2818 HEAD REPAIRS	
DR. C J MAAS			
CHK. J A ELLIOTT		WASTE AND VENT ISOMETRIC	
SUBMITTED BY: C J MAAS			
DESIGN DIR. J F ORR P.E.	DATE	SIZE	CODE IDENT. NO.
APPROVED: PWO OR OICC	DATE	E1	80091
SATISFACTORY TO:	DATE	<small>NAVYAC DRAWING NO. 60039619</small> <small>CONST. CONTR. 22-0005</small>	
SCALE: NOTED		SPEC. 05-22-0005	
		SHEET 15 OF 22	

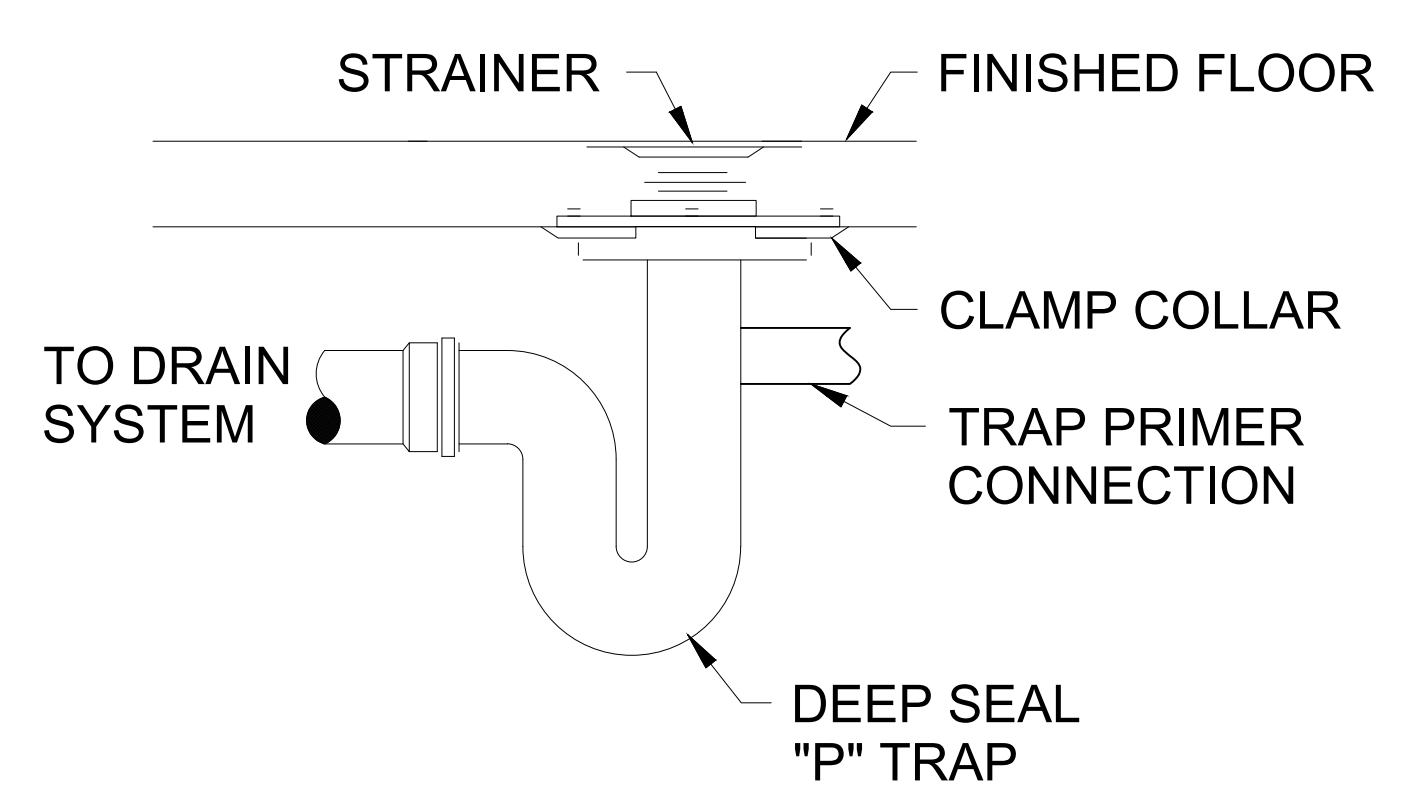
REVISIONS			
SYM	DATE	APPROVED	



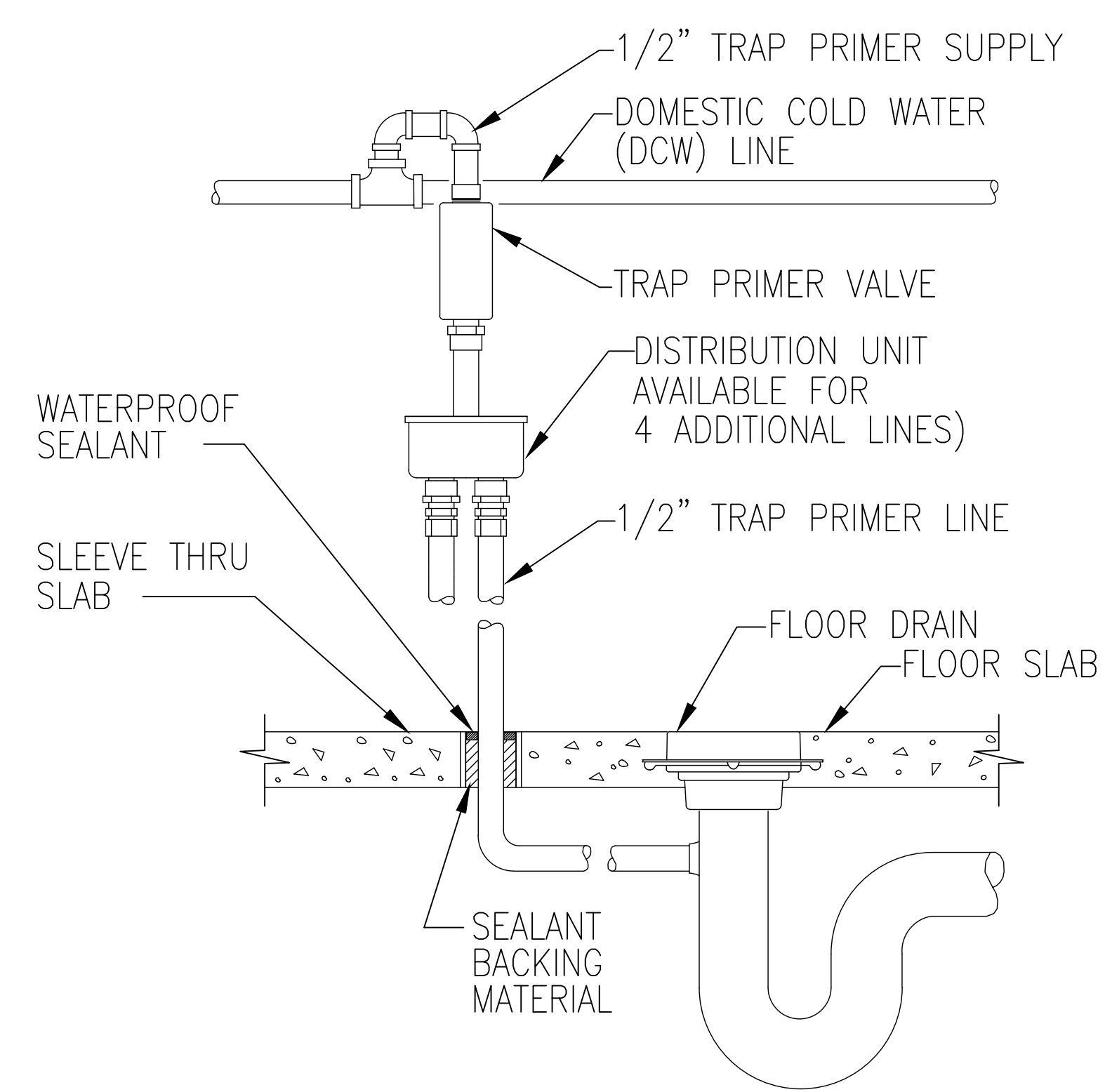
1 WATER HEATER DETAIL
P-5 SCALE: N.T.S.



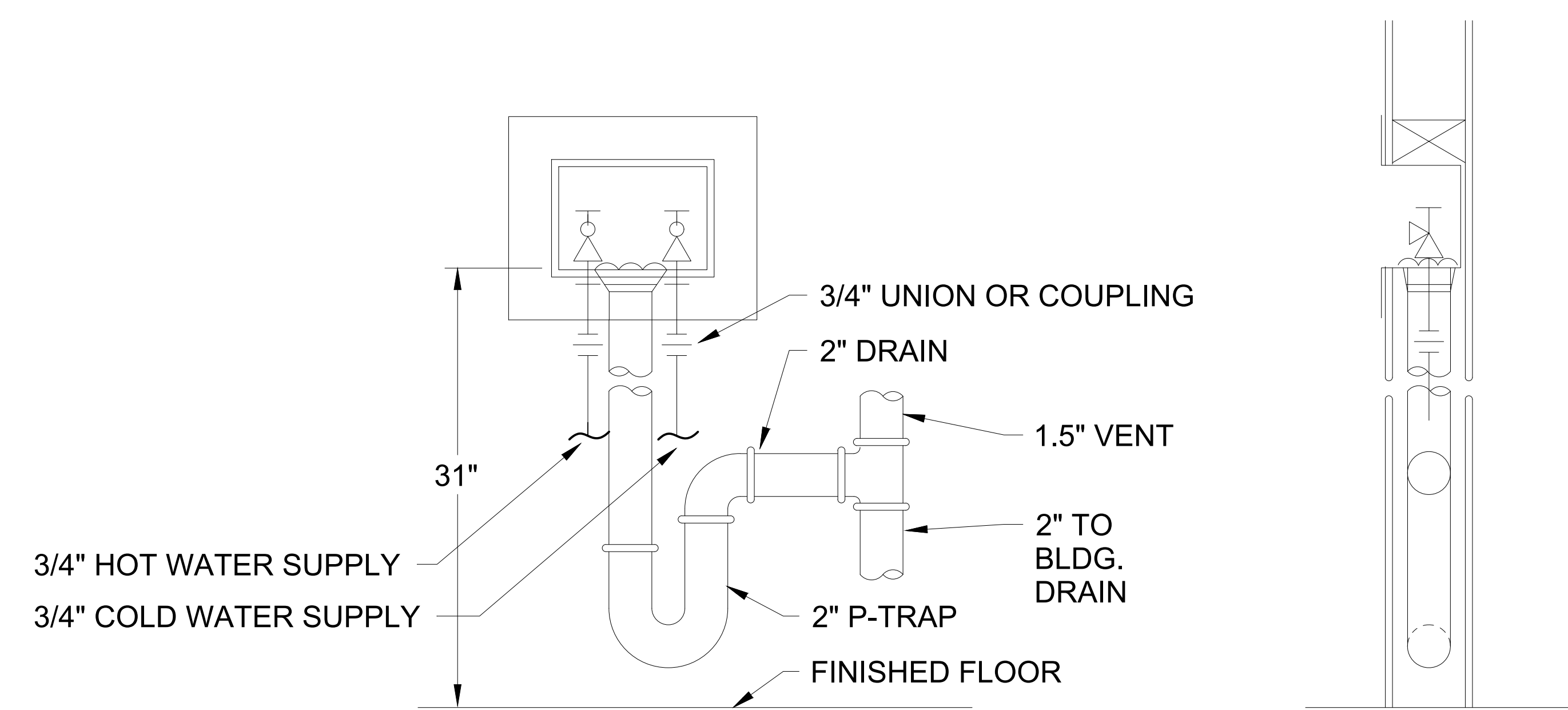
2 FLOOR/GRADE CLEANOUT DETAIL
P-5 SCALE: N.T.S.



3 FLOOR DRAIN DETAIL
P-5 SCALE: N.T.S.



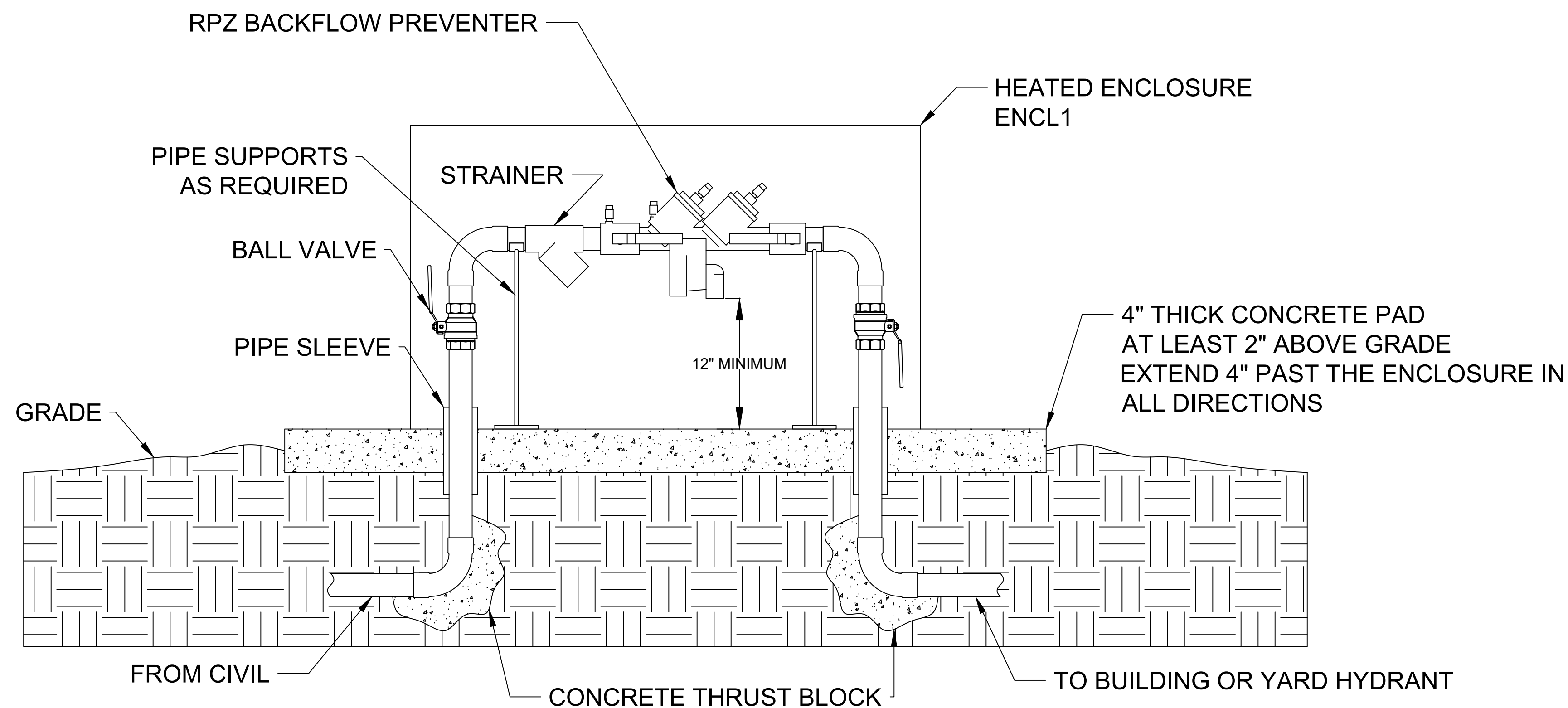
4 TRAP PRIMER DETAIL
P-5 SCALE: N.T.S.



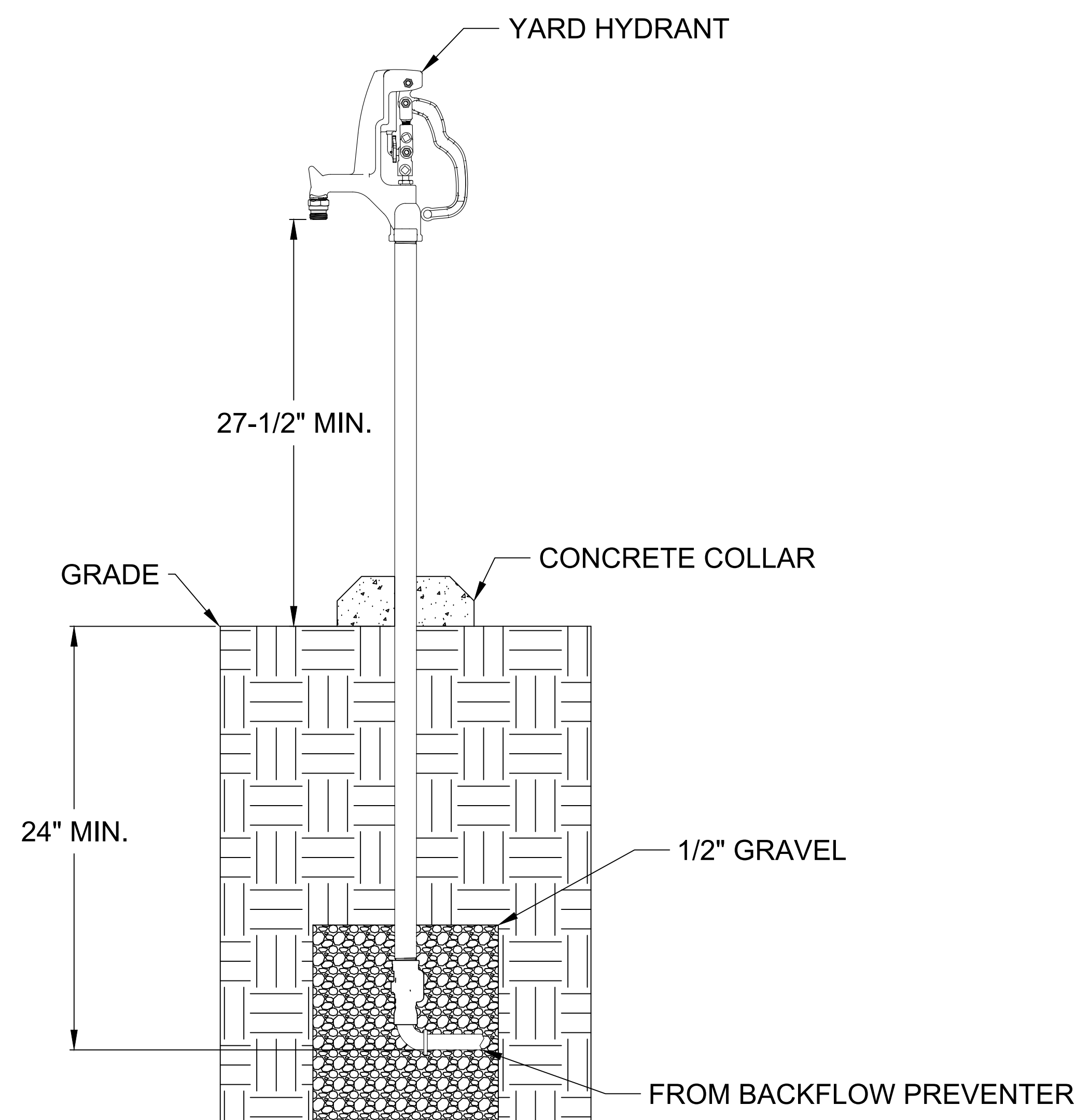
5 LAUNDRY WASHER BOX DETAIL
P-5 SCALE: N.T.S.

FINAL		P5	
<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJUNE, NORTH CAROLINA</small>			
DES. C J MAAS		AS2818 HEAD REPAIRS	
DR. C J MAAS		PLUMBING DETAILS	
CHK. J A ELLIOTT		NAVYAC DRAWING NO. 60039620	
SUBMITTED BY: C J MAAS		E1 80091	
DESIGN DIR. J F ORR P.E.		CONST. CONTR. 22-0005	
APPROVED: PWO OR OICC	DATE	SCALE: NOTED	SPEC. 05-22-0005
SATISFACTORY TO:	DATE	SHEET 16 OF 22	

REVISIONS			
SYM	DATE	APPROVED	



1 BACKFLOW PREVENTER DETAIL
 P-6 SCALE: N.T.S.



2 YARD HYDRANT DETAIL
 P-6 SCALE: N.T.S.

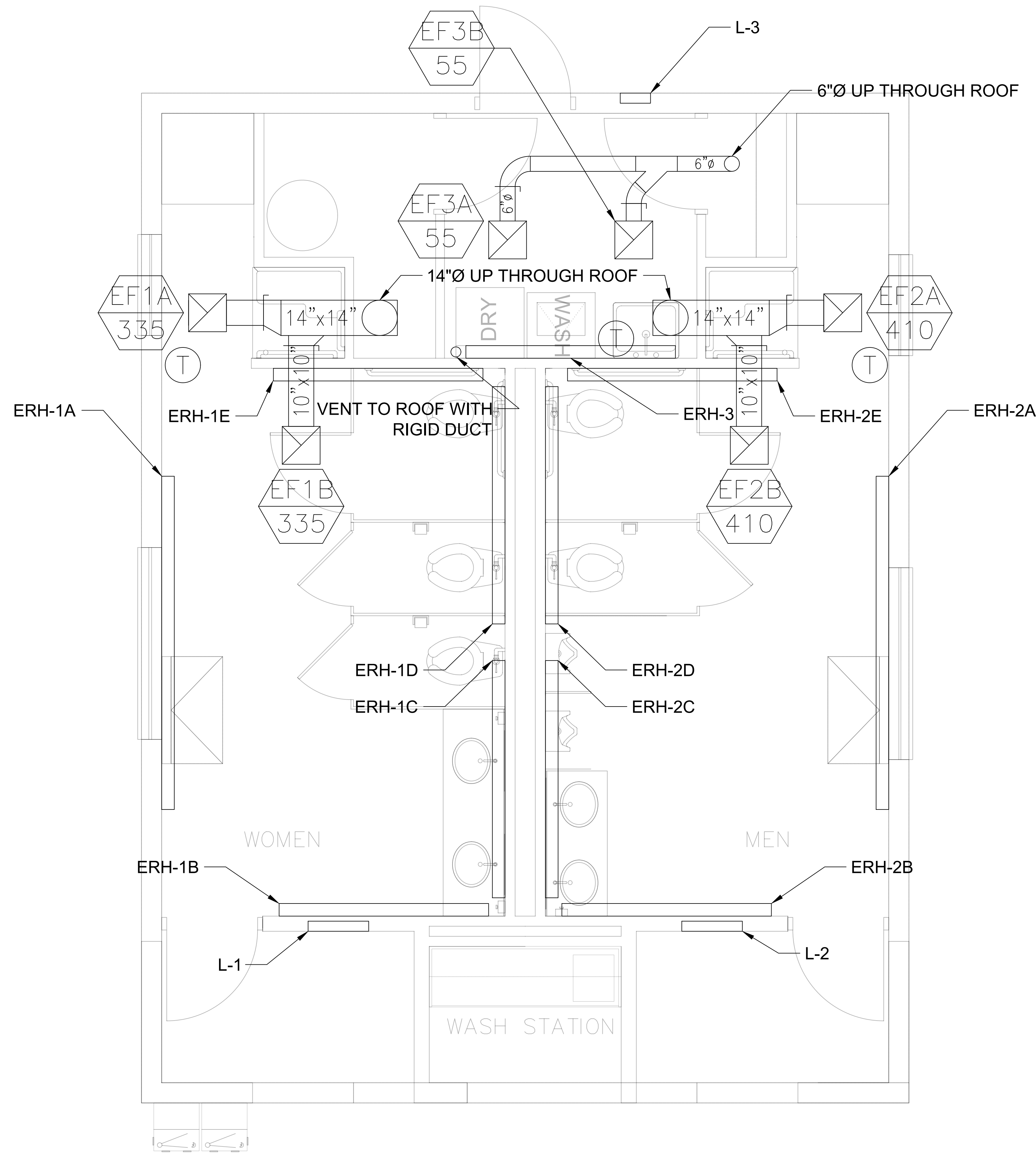
PLUMBING FIXTURE SCHEDULE						
MARK	DESCRIPTION	W	V	CW	HW	SPECIFICATION
P1	WATER CLOSET	4"	2"	1"		PROVIDE WHITE VITREOUS CHINA FLUSH VALVE WATER CLOSET; FLOOR MOUNTED & FLOOR OUTLET, WITH SIPHON JET ACTION, INTEGRAL TRAP AND ELONGATED BOWL. THE TOP OF TOILET SEAT HEIGHT SHALL BE 17 TO 19 INCHES ABOVE FLOOR. PROVIDE WAX BOWL RING INCLUDING PLASTIC SLEEVE. PROVIDE WHITE SOLID PLASTIC ELONGATED OPEN-FRONT SEAT. PROVIDE A DUAL-FLUSH WATER CLOSET AND FLUSH VALVE COMBINATION THAT PROVIDES A 1.6 GALLON MAX STANDARD FLUSH WITH A 1.1 GALLON MAX LIGHT FLUSH. THE FLUSH VALVE SHALL BE SOLENOID-ACTIVATED WITH ELECTRICALLY OPERATED LIGHT BEAM SENSOR TO ENERGIZE THE SOLENOID. FLUSH VALVE SHALL BE HARDWIRED AC POWERED WITH UL APPROVED AC TRANSFORMER IN WALL MOUNTED ELECTRICAL BOX WITH COVER. PROVIDE FULLY MECHANICAL MANUAL OVERRIDE BUTTON THAT CAN FLUSH URINAL DURING A POWER OUTAGE. EXPOSED TO VIEW COMPONENTS SHALL BE CHROMIUM PLATED OR POLISHED STAINLESS STEEL.
P2	URINAL	2"	1/2"	3/4"		PROVIDE WHITE VITREOUS CHINA FLUSH VALVE URINAL, WALL MOUNTED & WALL OUTLET, WITH SIPHON JET ACTION, INTEGRAL TRAP, AND EXTENDED SIDE SHIELDS. PROVIDE URINAL WITH THE RIM 24 INCHES ABOVE THE FLOOR. WATER FLUSHING VOLUME OF THE URINAL AND FLUSH VALVE COMBINATION SHALL BE 0.5 GALLONS PER FLUSH. THE FLUSH VALVE SHALL BE SOLENOID-ACTIVATED WITH ELECTRICALLY OPERATED LIGHT BEAM SENSOR TO ENERGIZE THE SOLENOID. FLUSH VALVE SHALL BE HARDWIRED AC POWERED WITH UL APPROVED AC TRANSFORMER IN WALL MOUNTED ELECTRICAL BOX WITH COVER. PROVIDE FULLY MECHANICAL MANUAL OVERRIDE BUTTON THAT CAN FLUSH URINAL DURING A POWER OUTAGE. EXPOSED TO VIEW COMPONENTS SHALL BE CHROMIUM PLATED OR POLISHED STAINLESS STEEL. PROVIDE CONCEALED CHAIR CARRIERS WITH VERTICAL STEEL PIPE SUPPORTS.
P3	LAVATORY	2"	1/2"	1/2"	1/2"	PROVIDE SOLID SURFACE COUNTERTOP WITH INTEGRAL UNDERMOUNT OVAL BOWL, COUNTERTOP AND BOWL TO BE THE IDENTICAL NON-POROUS MATERIAL. MOUNT LAVATORY WITH THE FRONT RIM 34 INCHES ABOVE THE FLOOR. PROVIDE TOP MOUNTED SOLENOID-ACTIVATED LAVATORY FAUCET INCLUDING ELECTRICALLY OPERATED LIGHT BEAM SENSOR TO ENERGIZE THE SOLENOID. FAUCET SHALL BE HARDWIRED AC POWERED WITH UL APPROVED AC TRANSFORMER IN WALL MOUNTED ELECTRICAL BOX WITH COVER. PROVIDE FULLY MECHANICAL MANUAL OVERRIDE BUTTON THAT CAN FLUSH URINAL DURING A POWER OUTAGE. EXPOSED TO VIEW COMPONENTS SHALL BE CHROMIUM PLATED OR POLISHED STAINLESS STEEL. PROVIDE CONCEALED CHAIR CARRIERS WITH VERTICAL STEEL PIPE SUPPORTS AND CONCEALED ARMS FOR THE LAVATORY.
P4	WATER FOUNTAIN	1/4"	1/2"	3/8"		PROVIDE OUTDOOR RATED STAINLESS STEEL FREEZE RESISTANT BI-LEVEL DRINKING WATER FOUNTAIN. PROVIDE FOUNTAIN WITH STAINLESS STEEL SPLASH RECEPTOR, BASIN, AND CABINET. DUAL BUBBLERS SHALL BE CONTROLLED BY PUSH BUTTON ON FRONT OF CABINET. PROVIDE FREEZE-RESISTANT BOX ON INTERIOR WALL.
P5	ADA SHOWER	2"	1/2"	1/2"		PROVIDE ADA COMPLIANT TILE SHOWER WITH REQUIRED ACCESSORIES (SEAT/GRAB BARS/ETC.) - SEE ARCHITECTURAL SHEETS FOR TILE SHOWER SPECIFICATION. PROVIDE ADA COMPLIANT SHOWERHEAD WITH HANDSHOWER. SHOWERHEAD WATER FLOW RATE SHALL BE 2.0 GPM WHEN MEASURED AT A FLOWING WATER PRESSURE OF 80 PSI. PROVIDE FLOW RESTRICTOR IN HANDSHOWER TO FLOW 2.0 GPM ALSO. SHOWER DRAINS SHALL HAVE A GALVANIZED BODY, INTEGRAL SLOTTED SEEPAGE PAN, AND A PERFORATED OR SLOTTED STRAINER. THE STRAINER SHALL BE ADJUSTABLE TO FLOOR THICKNESS AND SHALL BE CONSTRUCTED OF CHROMIUM-PLATED BRONZE, NICKEL-BRONZE OR NICKEL-BRASS.
P6	SHOWER	2"	1/2"	1/2"		PROVIDE ADA COMPLIANT TILE SHOWER WITH REQUIRED ACCESSORIES (SEAT/GRAB BARS/ETC.) - SEE ARCHITECTURAL SHEETS FOR TILE SHOWER SPECIFICATION. SHOWERHEAD WATER FLOW RATE SHALL BE 2.0 GPM WHEN MEASURED AT A FLOWING WATER PRESSURE OF 80 PSI. SHOWER DRAINS SHALL HAVE A GALVANIZED BODY, INTEGRAL SLOTTED SEEPAGE PAN, AND A PERFORATED OR SLOTTED STRAINER. THE STRAINER SHALL BE ADJUSTABLE TO FLOOR THICKNESS AND SHALL BE CONSTRUCTED OF CHROMIUM-PLATED BRONZE, NICKEL-BRONZE OR NICKEL-BRASS.
P7	LAVATORY/SERVICE SINK	1/2"	1/2"	1/2"	1/2"	PROVIDE FREESTANDING 304 STAINLESS STEEL SINGLE COMPARTMENT SINK. BOWL DIMENSIONS TO BE MINIMUM 24"x24" AND 12" DEEP. BACKSPLASH TO BE 9". PROVIDE 8" TALL GOOSENECK FAUCET. LEGS TO BE GALVANIZED OR STAINLESS STEEL.
P8	OUTDOOR SERVICE SINK	2"	1/2"	1/2"	1/2"	PROVIDE 72" 16-GAUGE 304 STAINLESS STEEL DISHABLE WITH SINGLE COMPARTMENT. SINK TO HAVE MINIMUM 8" BACKSPLASH, MINIMUM 6" DEEP BOWL, AND RAISED LIP. SUPPORT LEGS TO BE STAINLESS STEEL. PROVIDE INDIRECT DRAIN TO FLOOR DRAIN. PROVIDE LEAD FREE HOT AND COLD FROST-PROOF WALL HYDRANT MOUNTED 8" ABOVE RIM.
P9	WASHER BOX	2"	1/2"	1/2"	1/2"	PROVIDE WASHER BOX WITH DRAIN. WASHER BOX SHALL HAVE HOT AND COLD WATER CONNECTIONS WITH TURN VALVES. WATER CONNECTIONS TO BE COPPER SWEAT.
TP1	TRAP PRIMER DISTRIBUTION UNIT		1/2"			PROVIDE AUTOMATIC PRESSURE ACTIVATED TRAP PRIMER WITH DISTRIBUTION UNIT FOR 1 TO 4 OUTLETS.
HB1	HOSE BIB		1/2"			PROVIDE OUTDOOR WALL MOUNTED MILD CLIMATE BRASS HOSE BIB. HOSE BIB SHALL NOT REQUIRE THE USE OF KEY OR TOOL TO OPERATE.
HYD1	YARD HYDRANT		3/4"			PROVIDE OUTDOOR FREEZELESS YARD HYDRANT. YARD HYDRANT TO BE PROVIDED WITH 3/4" HOSE CONNECTION. WATER SHALL DRAIN BELOW THE FROST LINE WHEN THE HYDRANT IS CLOSED. RISER PIPE TO BE STAINLESS STEEL. 2 FOOT BURY DEPTH.
WH1	WATER HEATER		3/4"	3/4"		PROVIDE 50 GALLON ELECTRIC WATER HEATER, 240V/1P OPERATION, WITH DUAL 4500 WATT ELEMENTS, EXPANSION TANK, ASME T&P RELIEF VALVE, AND DRAIN VALVE. WATER HEATER SHALL HAVE REPLACEABLE ANODES. WATER HEATER CONTROLS SHALL HAVE AN ADJUSTABLE RANGE FROM 90 TO 160 °F. PROVIDE WATER HEATER WITH AN ENERGY FACTOR = 0.93 (MINIMUM OVERALL EFFICIENCY).
FD	FLOOR DRAIN					FLOOR DRAINS SHALL HAVE A CAST IRON BODY, INTEGRAL SLOTTED SEEPAGE PAN, AND A PERFORATED OR SLOTTED STRAINER. THE STRAINER SHALL BE ADJUSTABLE TO FLOOR THICKNESS AND SHALL BE CONSTRUCTED OF CHROMIUM-PLATED BRONZE, NICKEL-BRONZE OR NICKEL-BRASS. PROVIDE DRAIN WITH TRAP PRIMER CONNECTION, TRAP PRIMER, AND CONNECTION PIPING TO NEAREST FIXTURE.
FCO	FLOOR CLEANOUT					PROVIDE BRASS/BRONZE, CAST IRON OR GALVANIZED FLOOR CLEANOUTS WITH THREADED CLEANOUT PLUGS. PROVIDE ROUND FLOOR ACCESS COVERS ATTACHED TO PLUGS WITH SECURING SCREW. ACCESS COVERS SHALL BE CONSTRUCTED OF CHROMIUM-PLATED BRONZE, NICKEL-BRONZE, NICKEL-BRASS, OR STAINLESS STEEL. CLEANOUT ACCESS COVERS SHALL BE INSTALLED FLUSH WITH THE FINISHED FLOOR.
GCO	GRADE CLEANOUT					PROVIDE PVC GRADE CLEANOUTS WITH THREADED CLEANOUT PLUGS. PROVIDE ROUND VALVE BOX WITH TRAFFIC-RATED CLEANOUT COVER. VALVE BOX & COVER SHALL BE CONSTRUCTED OF CAST IRON OR DUCTILE IRON.
BFP1	BACKFLOW PREVENTER		2"			PROVIDE 2" TESTABLE LEAD FREE REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER. ASSE 1013 AND NSF/ANSI 61 APPROVED. PROVIDE WITH WYE STRAINER.
BFP2	BACKFLOW PREVENTER		3/4"			PROVIDE 3/4" TESTABLE LEAD FREE REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER. ASSE 1013 AND NSF/ANSI 61 APPROVED. PROVIDE WITH WYE STRAINER.
ENCL1	BACKFLOW ENCLOSURE					PROVIDE MINIMUM R8 INSULATED AND HEATED FIBERGLASS ENCLOSURE WITH DRAINPORTS. ENCLOSURE SHALL BE MOUNTED ON CONCRETE PAD AND BE REMOVABLE OR PROVIDE ACCESS TO BACKFLOW DEVICE FOR TESTING. HEATER(S) SHALL BE 120V SINGLE PHASE 1500 WATTS MAXIMUM, LISTED FOR USE IN DAMP OR WET LOCATIONS, AND MAINTAIN 40F INTERNAL AMBIENT TEMPERATURE.
ET1	EXPANSION TANK					PROVIDE 4.5 GALLON DIAPHRAGM EXPANSION TANK SUITABLE FOR POTABLE WATER.

FINAL		P6	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND			
MARINE CORPS BASE			
CAMP LEJUNE, NORTH CAROLINA			
AS2818 HEAD REPAIRS			
DES. C J MAAS	PLUMBING DETAILS AND SCHEDULE		
DR. C J MAAS	APPROVED: PWO OR OICC	DATE	NAVIFAC DRAWING NO. 60039621
CHK. J A ELLIOTT	E1	80091	CONST. CONTR. 22-0005
SUBMITTED BY: C J MAAS	SCALE: NOTED SPEC. 05-22-0005		
DESIGN DIR. J F ORR P.E.	SHEET 17 OF 22		

GENERAL CONSTRUCTION NOTES:

1. NOT ALL WORK IS EXPLICITLY SHOWN ON THE DRAWINGS. MAKE ALL NECESSARY MINOR CORRECTIONS AND ADJUSTMENTS TO DELIVER A FULLY FUNCTIONAL AND COMPLETE SYSTEM.
2. DEMOLISH ALL EXISTING MECHANICAL EQUIPMENT. DO NOT REUSE ANY EXISTING COMPONENTS.

REVISIONS			
SYM	DATE	APPROVED	



MARK	LOCATION	CFM	ESP	MAX SONES	ELECTRICAL	HP	WATTS	NOTES
EF-1A/1B	FEMALE HEAD	335	0.375"	9.0	120V/1P/60HZ	-	200	1-2
EF-2A/2B	MALE HEAD	410	0.375"	9.0	120V/1P/60HZ	-	200	1-2
EF-3A/3B	LAUNDRY	55	0.375"	9.0	120V/1P/60HZ	-	50	1-2

- NOTES:
1. FANS SHALL BE VARIABLE SPEED DIRECT DRIVE, CEILING MOUNTED WITH INTEGRAL BACKDRAFT DAMPER, DISCONNECT, SPEED CONTROL & EXHAUST GRILLE
 2. ROUTE EXHAUST DUCT UP TO ROOF JACK

MARK	LOCATION	TYPE	WATTS	AMPS	ELECTRICAL	NOTES
ERH-1A	FEMALE HEAD	COVE	1,800	7.5	240V/1P/60HZ	1-4
ERH-1C/1D	FEMALE HEAD	COVE	1,200	5.0	240V/1P/60HZ	1-4
ERH-1B/1E	FEMALE HEAD	COVE	1,050	4.4	240V/1P/60HZ	1-4
ERH-2A	FEMALE HEAD	COVE	1,800	7.5	240V/1P/60HZ	1-4
ERH-2C/2D	FEMALE HEAD	COVE	1,200	5.0	240V/1P/60HZ	1-4
ERH-2B/2E	FEMALE HEAD	COVE	1,050	4.4	240V/1P/60HZ	1-4
ERH-3	LAUNDRY	COVE	1,050	4.4	240V/1P/60HZ	1-4

- NOTES:
1. NICKEL-CHROME ALLOY WIRE HEATER
 2. WALL-MOUNTED PER MANUFACTURER'S WRITTEN INSTRUCTIONS MANUFACTURER PROVIDED WALL BRACKETS
 3. UL LISTED
 4. UNIT SHALL BE MOUNTED 4" FROM CEILING

MARK	LOCATION	AIRSTREAM	FACE SIZE (IN)	MIN FREE AREA (SQ FT)	MAX PRESS. DROP (IN)	NOTES
L-1	FEMALE HEAD	INTAKE	24"x24"	1.89	0.1	1-4
L-2	MALE HEAD	INTAKE	24"x24"	1.89	0.1	1-4
L-3	LAUNDRY	INTAKE	12"x12"	0.34	0.1	1-4

- NOTES:
1. PROVIDE 18-16 ALUMINUM MESH INSECT SCREEN. LOUVER PERFORMANCE TO INCLUDE INSECT SCREEN.
 2. LOUVER TO BE ALL ALUMINUM WITH DRAINABLE BLADES.
 3. PROVIDE WITH ALUMINUM GRAVITY DAMPER.
 4. COORDINATE COLOR WITH ARCHITECT.

SEQUENCE OF OPERATIONS

- GENERAL:
- ALL SCHEDULES AND SETPOINT SHALL BE ADJUSTABLE.
 - THERMOSTATS SHALL BE WALL MOUNTED.
- ELECTRIC HEATER CONTROL:
- ERH-1A/1B/1C/1D/1E SHALL OPERATE VIA A SINGLE THERMOSTAT.
 - ERH-2A/2B/2C/2D/1E SHALL OPERATE VIA A SINGLE THERMOSTAT.
 - ERH-3 SHALL OPERATE VIA A SINGLE THERMOSTAT.
 - ALL HEATERS SHALL MAINTAIN 68°F IN THEIR RESPECTIVE SPACES.
- EXHAUST FAN CONTROL:
- EF-1A, EF-2A, AND EF-3A SHALL BE COMMANDED ON AND OFF WITH THE LIGHTING OCCUPANCY SENSOR.
 - EF-1B SHALL BE CONTROLLED VIA A THERMOSTAT. THE EXHAUST FAN SHALL OPERATE WHEN THE TEMPERATURE IN THE SPACE IS GREATER THAN 80°F. BELOW 75°F THE EXHAUST FAN SHALL REMAIN OFF.
 - EF-2B SHALL BE CONTROLLED VIA A THERMOSTAT. THE EXHAUST FAN SHALL OPERATE WHEN THE TEMPERATURE IN THE SPACE IS GREATER THAN 80°F. BELOW 75°F THE EXHAUST FAN SHALL REMAIN OFF.
 - EF-3B SHALL BE CONTROLLED VIA A THERMOSTAT. THE EXHAUST FAN SHALL OPERATE WHEN THE TEMPERATURE IN THE SPACE IS GREATER THAN 80°F. BELOW 75°F THE EXHAUST FAN SHALL REMAIN OFF.

1 HVAC NEW WORK PLAN
M-1 SCALE: 1/2" = 1'



FINAL		M1	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND			
MARINE CORPS BASE			
CAMP LEJUNE, NORTH CAROLINA			
DES. C J MAAS		AS2818 HEAD REPAIRS	
DR. C J MAAS		MECHANICAL LAYOUT AND DETAILS	
CHK. J A ELLIOTT		SIZE CODE IDENT. NO. NAVFAC DRAWING NO.	
SUBMITTED BY: C J MAAS		E1 80091 60039622	
DESIGN DIR. J F ORR P.E.		CONST. CONTR. 22-0005	
APPROVED: PWO OR OIC		DATE	
SATISFACTORY TO:		DATE	
SCALE: NOTED		SPEC. 05-22-0005	
SHEET 18 OF 22			

ELECTRICAL LEGEND

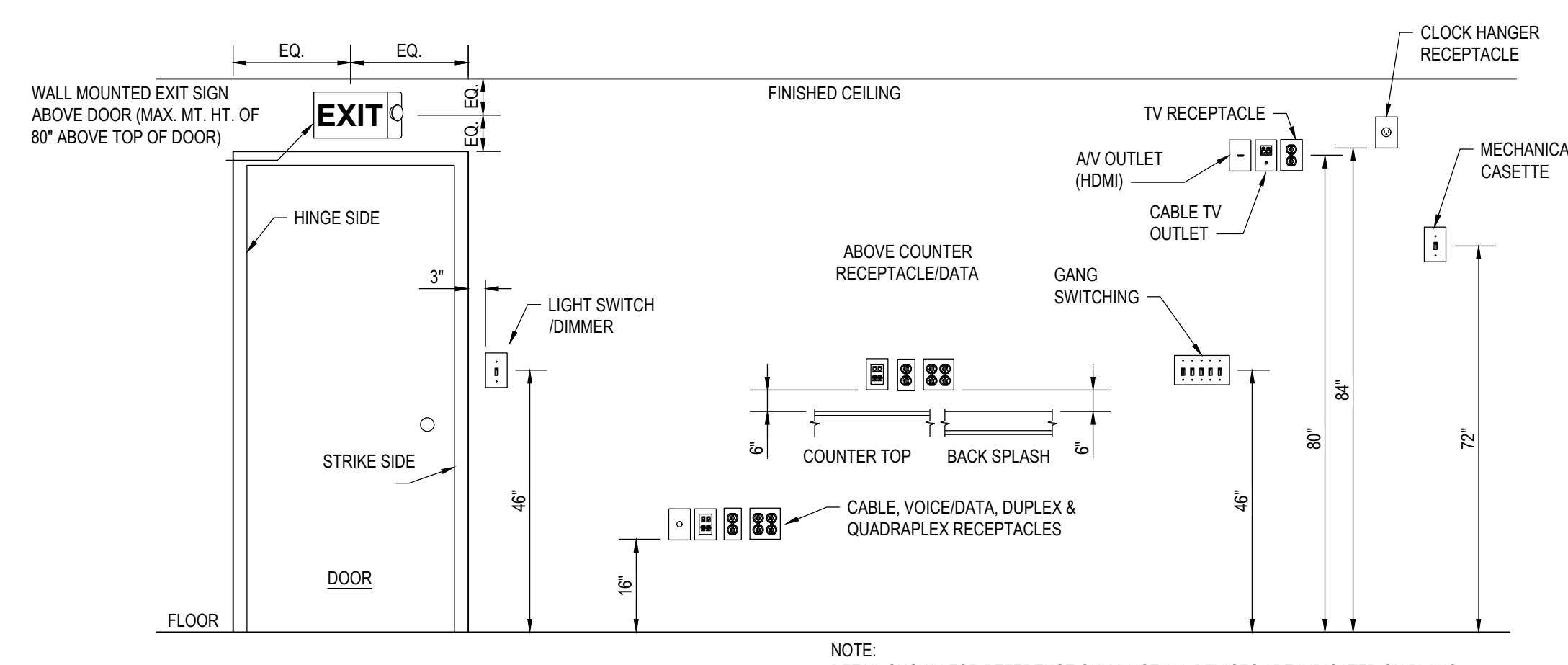
SYMBOL	DESCRIPTION
○	LIGHT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE.
○	RECESSED DOWN LIGHT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE.
○	WALL MOUNTED EXTERIOR LIGHT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE.
⊕	OCCUPANCY WALL SWITCH, LOW VOLTAGE, AT 46" AFF UNLESS OTHERWISE NOTED. LOW VOLTAGE WIRING IS TO BE PROVIDED BUT IS NOT SHOWN ON DRAWINGS FOR CLARITY. PROVIDE SWITCHES COMPATIBLE FOR LUMAIRES/LIGHTING SYSTEM. SEE OCCUPANCY SENSOR DIAGRAMS, CONNECTED TO LOW VOLTAGE CEILING SENSOR.
⊕	STANDARD TOGGLE SWITCH AT 46" AFF UNLESS OTHERWISE NOTED. 120VAC, 20A.
⊕	RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)
⊕	GFCI - GROUND FAULT CIRCUIT INTERRUPTER, 120VAC, 20A, MOUNTED 24" AFF WP - WEATHERPROOF GFCI
⊕	DISCONNECT SWITCH, FUSED, HEAVY DUTY, SIZE AS INDICATED ON DRAWINGS #A = DISCONNECT SIZE / # = NUMBER OF POLES / # = NEMA RATING, ##AF = FUSE SIZE
—	CONDUIT, HOME RUN TO PANEL BOARD
—	SWITCHED LEG NON-SWITCHED LEG
—	PANELBOARD, SURFACE OR RECESSED MOUNTED AS SHOWN. SIZE, RATINGS, AND MOUNTING AS INDICATED ON PANEL SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR REQUIRED CLEARANCE IN FRONT OF ELECTRICAL PANEL. SEE NEC TABLE 110.26 WORKING SPACES FOR ADDITIONAL CLEARANCE CONDITIONS.
—	RADIANT HEATER; SEE MECHANICAL SHEETS FOR DETAILS
—	EXISTING OVERHEAD SECONDARY
—	MOTOR CONNECTION; EXHAUST FAN. SEE MECHANICAL SHEETS FOR DETAILS.

ELECTRICAL GENERAL NOTES:

- ALL ELECTRICAL WORK MUST BE IN FULL COMPLIANCE WITH NFPA 70 THE NORTH CAROLINA STATE BUILDING CODE, ALL LOCAL CODES AND ORDINANCES AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- ALL EQUIPMENT PROVIDED BY THE CONTRACTOR MUST BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. FOR THE CONDITIONS OF INSTALLATION. ALL MATERIAL, EQUIPMENT AND DEVICES MUST BE NEW CURRENT PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS. EQUIPMENT MUST BE SUITABLE FOR ITS APPLICATION (E.G. WHEN INSTALLED OUTDOORS, IT MUST BE WEATHERPROOF, ETC.)
- THE CONTRACTOR MUST REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR WORK REQUIREMENTS. THE AMOUNT OF SPACE AVAILABLE FOR ELECTRICAL EQUIPMENT, 17 AND LAYOUT HIS WORK IN A COMPATIBLE AND FUNCTIONAL MANNER.
- UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE CONTRACTOR MUST BE COMPLETE AND FULLY-FUNCTIONING AFTER INSTALLATION. INCIDENTAL COMPONENTS MAY NOT BE SHOWN, AND ALL WORK WHICH MAY BE REASONABLY IMPLIED AS BEING INCIDENTAL TO THIS WORK, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM MUST BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ADDITIONAL CIRCUITS 18 MUST BE INSTALLED WHEREVER NEEDED TO CONFORM TO THE SPECIFIC REQUIREMENTS OF EQUIPMENT.
- TEMPORARY POWER CONNECTIONS AS REQUIRED MUST BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ALL TEMPORARY EQUIPMENT WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR MUST PROVIDE DETAILS, METHODS, MATERIALS, ETC. FOR REVIEW PRIOR TO MAKING TEMPORARY CONNECTIONS. FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS INCLUDING CONTROL EQUIPMENT, MOTOR STARTERS, 20 BRANCH AND FEEDER CIRCUIT BREAKERS, PANELBOARDS, TRANSFORMERS, ETC. FOR TEMPORARY POWER. COORDINATE WITH THE UTILITY PROVIDER AS REQUIRED.
- THE WORK MUST INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT 21 THE COMPLETION OF WORK AND ANY MINOR CORRECTIONS, CHANGES OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT.
- ALL ELECTRICAL EQUIPMENT MUST, AT ALL TIMES DURING CONSTRUCTION, BE ADEQUATELY PROTECTED AGAINST MECHANICAL INJURY, OR DAMAGE BY WATER AND/OR THE ELEMENTS. ELECTRICAL EQUIPMENT MUST NOT BE STORED OUT OF DOORS, BUT MUST BE STORED IN DRY PERMANENT SHELTERS. IF AN APPARATUS HAS BEEN DAMAGED, OR HAS BEEN SUBJECT TO POSSIBLE INJURY BY WATER OR THE ELEMENTS, SUCH DAMAGE MUST BE REPLACED AT NO ADDITIONAL COST.
- DO NOT SCALE ELECTRICAL DRAWINGS. CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS.
- CIRCUIT LAYOUTS ARE NOT INTENDED TO SHOW THE NUMBER OF FITTINGS, OR OTHER INSTALLATION DETAILS. UNLESS NOTED OTHERWISE, THE EXACT ROUTING 24 OF FEEDER AND BRANCH CIRCUIT RACEWAYS AND CABLES IS THE RESPONSIBILITY OF THE CONTRACTOR. RISER AND GENERAL CIRCUIT ARRANGEMENTS ARE SHOWN SCHEMATICALLY/DIAGRAMMATICALLY ONLY. THE CONTRACTOR MUST ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION.
- UNLESS DIMENSIONED, DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADJUST EXACT LOCATIONS AS REQUIRED TO SERVE THE INTENDED PURPOSE AND TO AVOID CONFLICTS AND INTERFERENCES WITH OTHER TRADES. IF NOT SHOWN ON THE ARCHITECTURAL DRAWINGS OR DIMENSIONED ON THE ELECTRICAL DRAWINGS, VERIFY EXACT LOCATION WITH THE GOVERNMENT PRIOR TO ROUGH-IN.
- CONDUIT TERMINATING IN PRESSED STEEL BOXES MUST HAVE DOUBLE LOCKNUTS AND INSULATED BUSHINGS. CONDUITS TERMINATING IN GASKETED ENCLOSURES MUST BE TERMINATED WITH GROUNDING TYPE CONDUIT HUBS.
- BRANCH CIRCUIT HOMERUNS SHOWN ON DRAWINGS INDICATE PHASE CONDUCTORS, NEUTRAL, EQUIPMENT GROUND CONDUCTORS AS REQUIRED.
- ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL MUST BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.
- SEAL ALL CONDUIT OPENINGS THROUGH EXTERIOR BUILDING WALLS AND ROOF WATERTIGHT.
- IN WET LOCATIONS AND EXTERIOR, ALL WIRING DEVICES MUST BE WEATHER-RESISTANT LISTED WITH WEATHERPROOF WHILE IN USE COVER.
- RACEWAYS PENETRATING FLOORS, CEILINGS OR WALLS MUST BE PROPERLY SEALED SMOKE-TIGHT.
- ALL RACEWAYS MUST BE CONCEALED WHERE POSSIBLE.
- INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS32 MUCH AS POSSIBLE. NO DIAGONAL RUNS WILL BE ALLOWED. ALL CONDUITS MUST BE RUN STRAIGHT WITH QUALITY WORKMANSHIP-LIKE MANNER. RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON SUPPORTS WHERE PRACTICAL. MAKE BENDS IN PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS PARALLEL.
- PATCHING OF WATERPROOFED SURFACES MUST RENDER THE AREA OF THE PATCHING COMPLETELY WATERPROOF.
- ALL MOTORS AND OTHER VIBRATING EQUIPMENT MUST BE CONNECTED TO THE CONDUIT SYSTEM BY MEANS OF A SHORT SECTION (18 INCH MINIMUM) OF FLEXIBLE CONDUIT UNLESS OTHERWISE INDICATED. AN EQUIPMENT GROUNDING CONDUCTOR MUST BE INSTALLED INSIDE THE FLEXIBLE CONDUIT AND TERMINATE AT THE LOAD END WITH AN APPROVED GROUNDING CLAMP OR LUG.
- SURFACE MOUNTED PANELBOARDS, JUNCTION, OUTLET AND PULL BOXES, RACEWAYS, ETC., INSTALLED ON EXTERIOR SURFACES OR INSIDE ON EXTERIOR WALLS MUST BE SUPPORTED BY SPACERS TO PROVIDE A MINIMUM 1/4" MINIMUM CLEARANCE BETWEEN THE WALL AND EQUIPMENT.
- TYPED PANELBOARD DIRECTORIES INSTALLED IN THE PANELBOARD DOOR POCKET MUST REFLECT FINAL CONDITIONS AND ACTUAL ROOM NAMES AND NUMBERS IN ADDITION TO THE GENERAL DESCRIPTION SHOWN ON THE PANEL SCHEDULES ON THE DRAWINGS.
- CONDUCTOR SIZING IS BASED ON 75 DEGREE C. COPPER NEC RATINGS, UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THE ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C. WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C. CONDUCTORS, THE CONTRACTOR MUST NOTIFY THE GOVERNMENT IMMEDIATELY FOR EVALUATION/CORRECTION.
- DO NOT PULL CONDUCTORS UNTIL THE CONDUIT SYSTEM IS COMPLETE IN EVERY DETAIL. IN THE CASE OF CONCEALED WORK, "COMPLETE" MEANS UNTIL ALL ROUGH PLASTERING OR MASONRY HAS BEEN COMPLETED.
- WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, BRANCH CIRCUITS MUST CONSIST OF #12 OR #10 AWG MINIMUM PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS IN 3/4" MINIMUM RACEWAY.
- USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS WITH A TOTAL INSTALLED LENGTH GREATER THAN 75 FEET AND/OR BRANCH CIRCUIT HOMERUNS LONGER THAN 50 FEET. I.E., #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE BRANCH CIRCUITS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND HOMERUNS OVER 50 FEET. IF 277 VOLT CIRCUITS ARE SHOWN, USE #10 AWG CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS WITH TOTAL INSTALLED LENGTH GREATER THAN 200 FEET AND/OR BRANCH CIRCUIT HOMERUNS LONGER THAN 125 FEET, I.E., #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE BRANCH CIRCUITS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND HOMERUNS OVER 50 FEET.
- KEEP CONDUCTOR SPLICES TO A MINIMUM. INSTALL SPLICES AND TAPES THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN CONDUCTORS BEING SPLICED. USE SPLICE AND TAP CONNECTORS COMPATIBLE WITH CONDUCTOR MATERIAL. INSTALL CONDUCTORS AT EACH OUTLET WITH AT LEAST 6 INCHES OF SLACK. CONNECT OUTLETS AND COMPONENTS TO WIRING AND TO GROUND AS INDICATED AND INSTRUCTED BY THE MANUFACTURER.
- DO NOT SPLICE BRANCH CIRCUIT HOMERUNS WITHOUT THE PERMISSION OF THE GOVERNMENT. HOMERUNS MUST BE CONTINUOUS FROM THE LAST OUTLET BOX TO THE SERVING PANELBOARD.
- DO NOT COMBINE BRANCH CIRCUIT HOMERUNS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.
- INSTALL WIRING DEVICES AT HEIGHTS AS SHOWN ON THE DRAWINGS.
- PROVIDE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH THE NATIONAL TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, IN AREAS SUBJECT TO POSSIBLE WET CONDITIONS.
- COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH THE RESPECTIVE CONTRACTOR, VENDORS AND THE GOVERNMENT BEFORE ROUGH-IN. ADJUST LIGHTING FIXTURES, RECEPTACLES AND ELECTRICAL EQUIPMENT TO ACCOMMODATE THIS EQUIPMENT. ADVISE THE GOVERNMENT OF CONFLICTS BEFORE ROUGH-IN.
- BEFORE COMMENCING WORK OR ORDERING MATERIALS, THE CONTRACTOR MUST COORDINATE WITH OTHER TRADES AND VERIFY THE NAMEPLATE RATINGS OF ALL EQUIPMENT (MOTORS, HEATERS, COMPRESSORS, ETC.) AND ADJUST THE RATINGS OF THE ELECTRICAL EQUIPMENT (SWITCHES, FUSES, CIRCUIT BREAKERS, FEEDERS, ETC.) AS APPROPRIATE TO SERVE THIS EQUIPMENT.
- ENERGIZE EQUIPMENT ONLY AFTER OBTAINING PERMISSION FROM THE CONTRACTOR PROVIDING THE EQUIPMENT.
- UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR MUST MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD. THE CONTRACTOR MUST COORDINATE WITH THE MECHANICAL TRADE, PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, TO VERIFY MECHANICAL EQUIPMENT REQUIREMENTS ARE PROVIDED IN THE ELECTRICAL DESIGN. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILIZATION EQUIPMENT, EVEN IF THE ELECTRICAL WORK IS INSTALLED PER THE ELECTRICAL DRAWINGS.
- THE CONTRACTOR MUST COORDINATE ALL EQUIPMENT TERMINATIONS, PLUGS AND CORSETS WITH VENDOR EQUIPMENT AND VERIFY ALL DEVICE LOCATIONS FOR SPECIALITY EQUIPMENT WITH CASEWORK PRIOR TO ROUGH-IN.
- INSTALLATION INFORMATION PACKED WITH DEVICES AND EQUIPMENT MUST BE RETAINED FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUALS.
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING ELECTRICAL SYSTEMS AND THE EXISTING BUILDING. THE SUBMISSION OF THE PROPOSAL BY THE CONTRACTOR SHALL BE CONSIDERED EVIDENCE THAT HE OR HIS REPRESENTATIVE HAS VISITED THE SITE AND BUILDINGS AND NOTED THE LOCATION AND CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED AND THAT HE TAKES FULL RESPONSIBILITY OF ALL FACTORS GOVERNING HIS WORK. NO EXTRAS WILL BE CONSIDERED BECAUSE OF ADDITIONAL WORK NECESSITATED BY EXISTING JOB CONDITIONS THAT ARE NOT INDICATED ON THE DRAWINGS.
- SAFETY
 - COMPLY WITH OSHA AND NEC ARC FLASH PROTECTION REQUIREMENTS.
 - FOR EQUIPMENT BEING REMOVED AND REPLACED, THE CONTRACTOR SHALL DE-ENERGIZE THE EQUIPMENT AND MAKE IT SAFE PRIOR TO REMOVAL AND COMPLY WITH OSHA REQUIREMENTS FOR LOCKING-OUT AND TAGGING EQUIPMENT TO PREVENT INADVERTENT RE-ENERGIZING.

ABBREVIATIONS

A	AMP	AMPERE	LP	LIGHTING PANEL, LIGHT POLE
AFF	ABOVE FINISHED FLOOR		LTG	LIGHTING
AFG	ABOVE FINISHED GRADE		MCB	MAIN CIRCUIT BREAKER
AHU	AIR HANDLING UNIT		MCC	MOTOR CONTROL CENTER
AIC	AIR HANDLING CAPACITY		MCP	MOTOR CIRCUIT PROTECTOR
ATS	AUTOMATIC TRANSFER SWITCH		MDP	MAIN DISTRIBUTION PANEL
AWG	AMPERE INTERRUPTING CAPACITY		MFR	MANUFACTURER
BOF	AMERICAN WIRE GAUGE		MH	MANHOLE
BRKR	BOTTOM OF FIXTURE		MLO	MAIN LUGS ONLY
BRKR	BREAKER		MTD	MOUNTED
C, CND	CONDUIT		MTS	MOUNTING
CAB	CABINET		MTS	MANUAL TRANSFER SWITCH
CAT	CATALOG		MV	MEDIUM VOLTAGE
CL	CHLORINE		N/ NEUT	NEUTRAL
CLG	CIRCUIT BREAKER		NA	NOT APPLICABLE
CCTV	CLOSED CIRCUIT TELEVISION		NC	NORMALLY CLOSED
CKT	CIRCUIT		NEC	NATIONAL ELECTRIC CODE
CLG	CEILING		NIC	NOT IN CONTRACT
CP	CONTROL PANEL		NL	NIGHT LIGHT
CR	CONTROL RELAY, CORROSION RESISTANT		NO	NORMALLY OPEN
CS	CIRCUIT SWITCH		NTS	NOT TO SCALE
CV	CONTROL VALVE		P	POLE
CT	CURRENT TRANSFORMER		PA	PUBLIC ADDRESS
CU	COPPER		PB	PULL BOX, PUSH-BUTTON
EF	EXHAUST FAN		PF	POWER FACTOR
EMER	EMERGENCY		PH	PHASE
EMT	ELECTRICAL METALLIC TUBING		PLC	PROGRAMMABLE LOGIC CONTROLLER
ENCL	ENCLOSURE		PNL	PANEL
EQUIP	EQUIPMENT		P	POWER PANEL, POWER POLE
EW	ELECTRIC WATER COOLER		PPE	PORTABLE POWER EQUIPMENT CABLE
EWH	ELECTRIC WATER HEATER		PT	POTENTIAL TRANSFORMER
EPRF	EXPLSION PROOF		PWR	POWER
FA	FIRE ALARM		RECPT	RECEPTACLE
FANP	FIRE ALARM ANNUNCIATOR PANEL		REQ'D	REQUIRED
FACP	FIRE ALARM CONTROL PANEL		RGS	RIGID GALVANIZED STEEL CONDUIT
FBO	FURNISHED BY OTHERS		RM	ROOM
FLA	FULL LOAD AMPS		RTU	REMOTE TELEMETRY UNIT
FLUOR	FLUORESCENT		DCM	DC MOTOR DRIVE
FLR	FLOOR		SH	SHEET
FVE	FURNISHED WITH EQUIPMENT		SFD	SURGE PROTECTION DEVICE
GEN	GENERATOR		SPEC	SPECIFICATION
G, GND	GROUND		SS	SELECTOR SWITCH
GFCI	GROUND FAULT CURRENT INTERRUPTER		SST	STAINLESS STEEL
HH	HANDHOLE		SW	SWITCH
HID	HIGH INTENSITY DISCHARGE		SWBD	SWITCHBOARD
HOA	HAND-OFF-AUTO		SWGR	SWITCH GEAR
HP	HORSE POWER		TEL	TELEPHONE
HPF	HIGH POWER FACTOR		TPS	TWISTED PAIR SHIELDED
HPS	HIGH PRESSURE SODIUM		TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
HTR	HEATER		TYP	TYPICAL
HV	HIGH VOLTAGE		UGND	UNDERGROUND
HZ	HERTZ		UH	UNIT HEATER
IMC	INTERMEDIATE METALLIC CONDUIT		UN	UNLESS OTHERWISE NOTED
INCAND	INCANDESCENT		UTIL	UTILITY
JB	JUNCTION BOX		V	VOLTS
K	THOUSAND		VFD	VARIABLE FREQUENCY DRIVE
KCMIL	THOUSAND CIRCULAR MILLS		W	WIRE, WATT
KVA	KILOVOLT AMPERE		WH	WATT-HOUR
KW	KILOWATTS		WP	WEATHERPROOF
KWH	KILOWATT-HOURS		WTE	WEATHERPROOF TELEPHONE ENCLOSURE
			XFMR	TRANSFORMER
			X/R	EXISTING RELOCATED

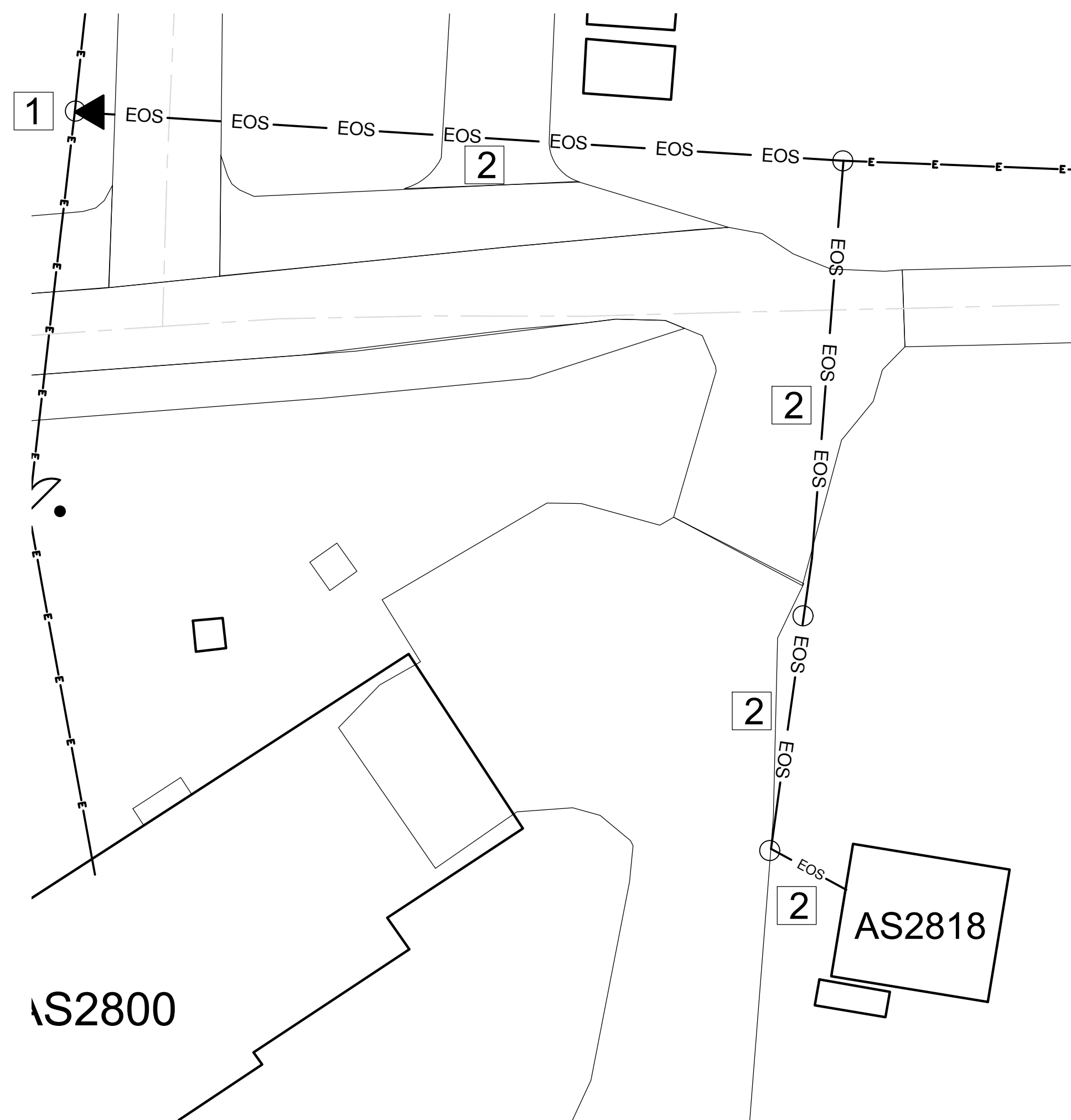


ELECTRICAL DEVICES MOUNTING HEIGHT

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FINAL		E100	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
BUILDING AS2818			
HEAD REPAIRS			
ELECTRICAL LEGEND & NOTES			
DESIGNED BY:	K. BROWN	DATE:	
CHECKED BY:	K. BROWN	DATE:	
SUBMITTED BY:	M. HUNTER	DATE:	
DESIGN DIR.:	J.F. ORR	DATE:	
APPROVED: PWO OR OICC:		SIZE:	CODE IDENT. NO.
PWO or OICC		E1	80091
SATISFACTORY TO:		DATE:	NAVFAC DRAWING NO.
			60039623
		SCALE:	CONSTR. CONTR. NO.
		NOTED	22-0005
		SPEC:	NA
			SHEET: 19 OF 22

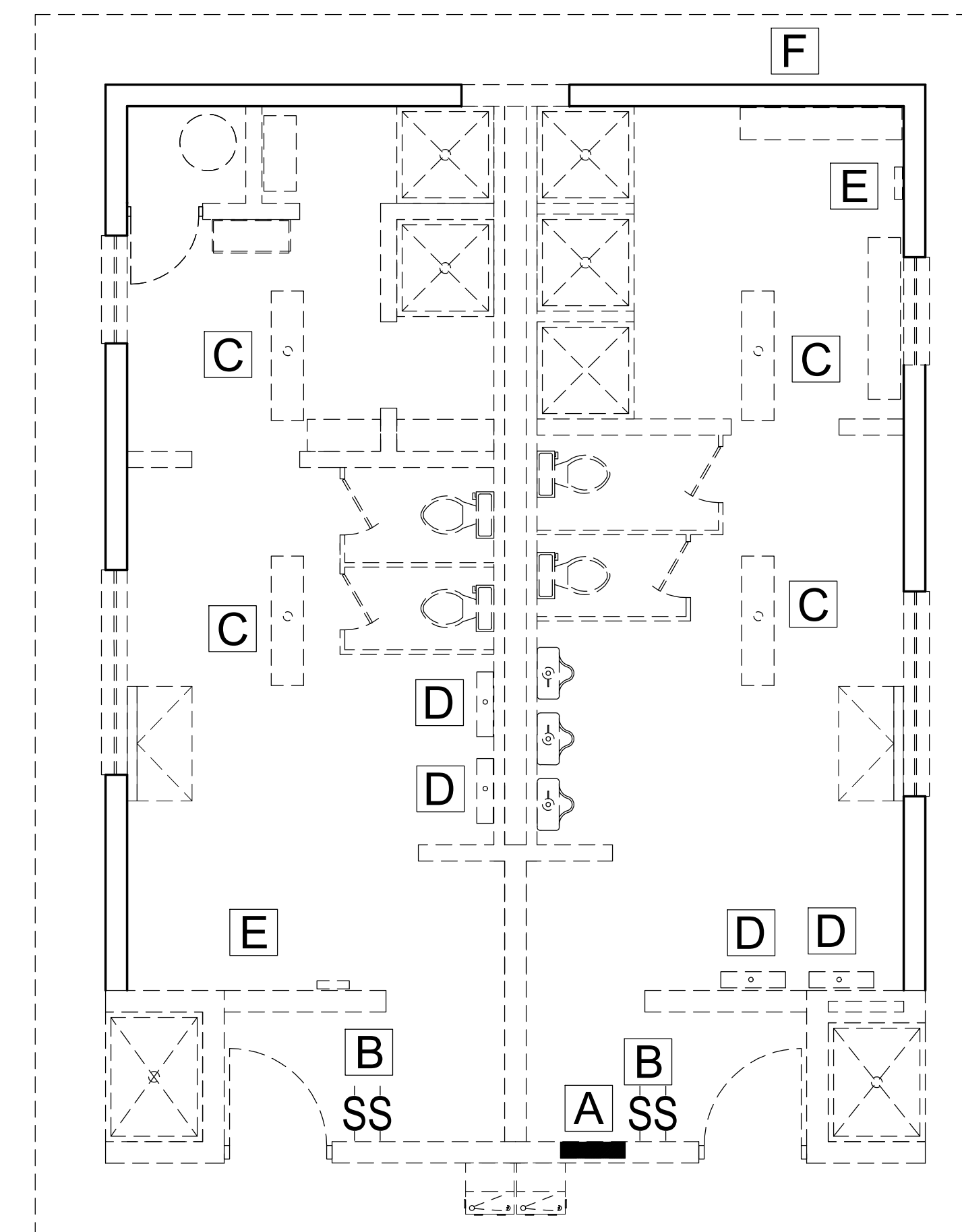


ELECTRICAL SITE PLAN

SCALE: NTS

SITE PLAN KEYED NOTES

- 1 EXISTING 75 KVA POLE MOUNTED TRANSFORMER TO REMAIN.
- 2 REMOVE EXISTING OVERHEAD SECONDARY CONDUCTORS SERVING AS2818. PROVIDE NEW 2/0 OVERHEAD TRIPLEX BACK (APPROX. 500FT TOTAL) TO NEW WEATHERHEAD AND NEW 200A PANELBOARD MDP.



DEMOLITION PLAN

SCALE: NTS

DEMOLITION GENERAL NOTES:

1. DEMOLISH ELECTRICAL IN WORK AREA.
2. REMOVE LUMINAIRE(S), CONDUCTOR(S), SWITCH(ES), AND CONDUIT(S) SERVING THE IDENTIFIED WORK AREA, BACK TO SOURCE.
3. REMOVE RECEPTACLE(S), CONDUCTOR(S), AND CONDUIT(S) SERVING THE IDENTIFIED WORK AREA BACK TO SOURCE.
4. REMOVE EXHAUST FANS, HEATERS, WATER HEATERS, CONDUCTOR(S), AND CONDUIT(S) SERVING THE WORK AREA BACK TO SOURCE.
5. REMOVE EXISTING PANELBOARD, CONDUCTOR(S), AND CONDUIT(S) SERVING THE WORK AREA.
6. DEMOLITION PLAN IS A REPRESENTATION OF EXISTING CONDITIONS. ACTUAL CONDITIONS WILL VARY. DEMO SCOPE SHALL BE APPLIED TO ACTUAL CONDITIONS.

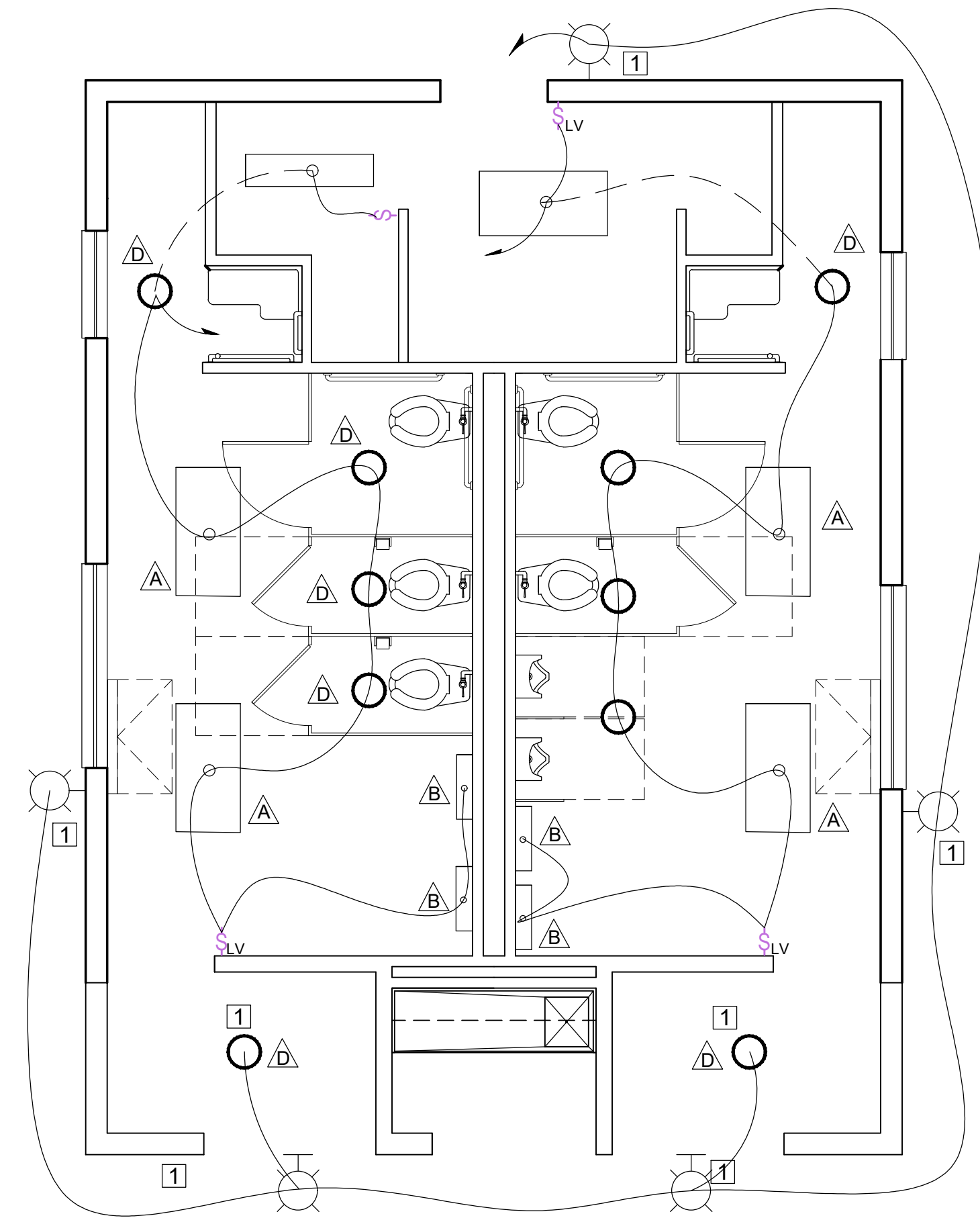
DEMOLITION KEYED NOTES

- [A] EXISTING 100A MLO FLUSH PANELBOARD. 1φ 240V/120. DEMOLISH.
- [B] SWITCH, TIMER, FLUSH MOUNTED. DEMOLISH.
- [C] LUMINAIRE. 2-F32T12, SURFACE MOUNT. DEMOLISH.
- [D] LUMINAIRE. VANITY FIXTURE. SURFACE MOUNT. DEMOLISH.
- [E] HEATER. SURFACE MOUNT. DEMOLISH.
- [F] WEATHERHEAD. DEMOLISH.

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FINAL		E101	
<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</small>			
MARINE CORPS BASE			
<small>CAMP LEJEUNE, NORTH CAROLINA</small>			
DES: K. BROWN		BUILDING AS2818	
DR: K. BROWN		HEAD REPAIRS	
CHK: K. BROWN		SITE AND DEMOLITION PLAN	
SUBMITTED BY: M. HUNTER			
DESIGN DIR: J.F. ORR			
APPROVED: PWO OR OICC:	DATE:	SIZE: E1	CODE IDENT. NO: 80091
PWO or OICC			NAVFAC DRAWING NO. 60039624
SATISFACTORY TO:	DATE:	CONST. CONTR. NO. 22-0005	
		SCALE: NOTED	SPEC. NA SHEET: 20 OF 22



LIGHTING PLAN - NEW WORK

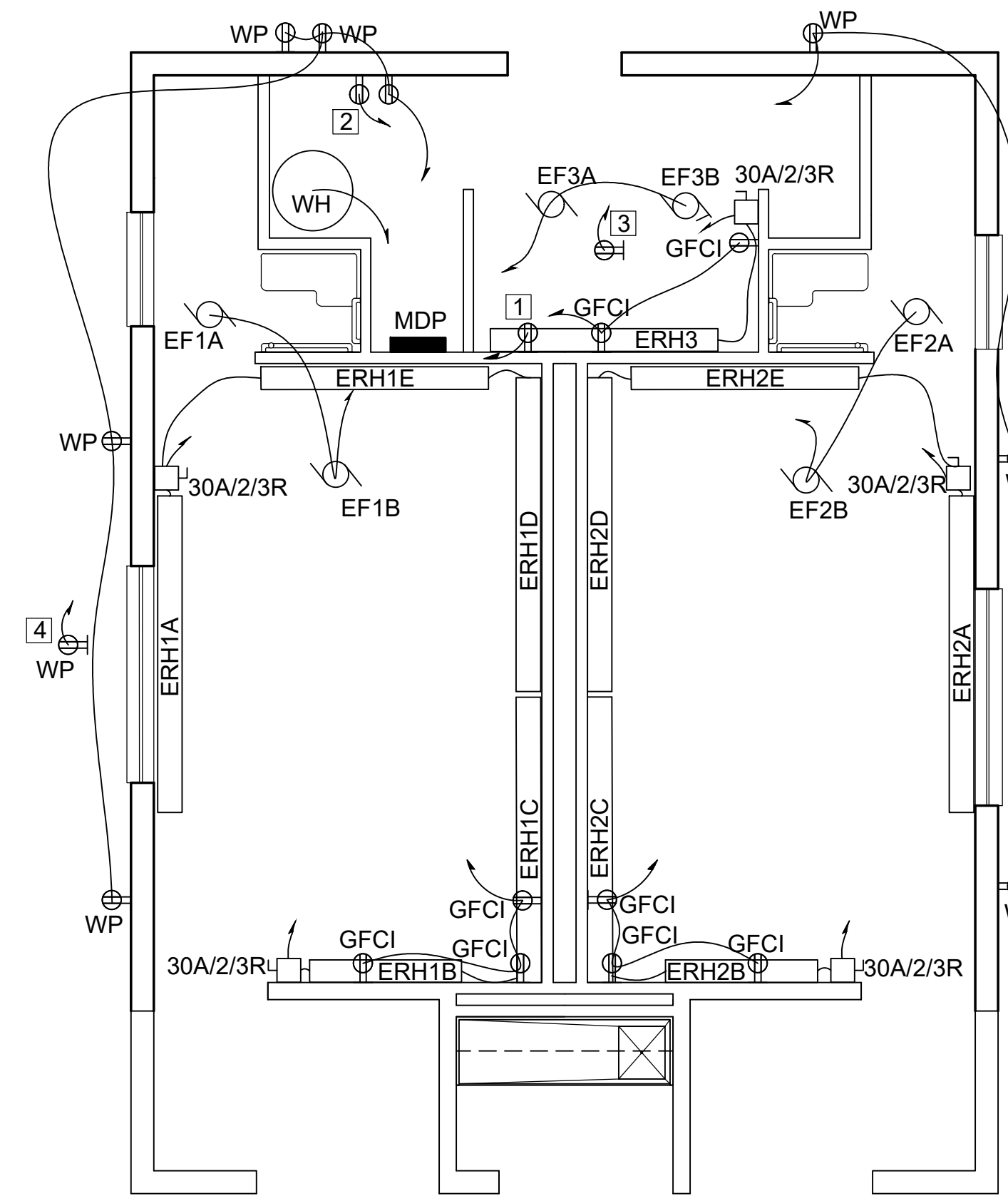
SCALE: NTS

LIGHTING PLAN GENERAL NOTES

1. PROVIDE NEW LIGHTING PLAN AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE & LUMINAIRE PLATES.
2. SEE PANELBOARD SCHEDULE FOR CIRCUIT DETAILS.
3. PROVIDE NEW LUMINAIRE(S) & CIRCUIT(S) AS INDICATED. MIN. 2 - #12, 1 - #12 EGC IN 1/2" C. FLUSH IN NEW WALLS.
4. PROVIDE OCCUPANCY SENSORS TO CONTROL LIGHTING. SEE OCCUPANCY SENSOR DIAGRAM. OCCUPANCY SENSORS ARE NOT SHOWN ON DRAWINGS FOR CLARITY.

KEYED NOTES

- ① LUMINAIRE MUST BE PHOTOCONTROLLED. LOCATE PHOTOCELL TO ENSURE PROPER OPERATION.



POWER PLAN - NEW WORK

SCALE: NTS

POWER PLAN GENERAL NOTES

1. PROVIDE NEW POWER PLAN AS INDICATED ABOVE.
2. PROVIDE NEW BRANCH CIRCUIT CONDUCTORS IN CONDUIT TO NEW MDP PANELBOARD. SEE PANELBOARD SCHEDULE FOR CIRCUIT NUMBERS AND DETAILS.
3. PROVIDE NEW RECEPTACLES & CIRCUIT(S) AS INDICATED. MIN. 2 - #12, 1 - #12 EGC IN 1/2" C. FLUSH IN NEW WALLS. SURFACE MOUNT ON EXISTING INTERIOR BLOCK WALLS.
4. PROVIDE NEW PANELBOARD MDP; SEE PANELBOARD SCHEDULE.
5. PROVIDE NEMA 14-30R FOR DRYER RECEPTACLE & CIRCUIT. 3-#10, 1#10 EGC IN 3/4" C.
6. PROVIDE EXHAUST FAN CIRCUIT(S) AS INDICATED. PROVIDE DISCONNECT SWITCH IN ATTIC SPACE. MIN. 2 - #12, 1 - #12 EGC IN 1/2" C.
7. PROVIDE NEW CIRCUIT FOR WATER HEATER AS INDICATED. COORDINATE WITH MECHANICAL SHEETS. MIN. 2-#10, 1#10 EGC IN 3/4" C.
8. PROVIDE NEW (2) - 3/4"x10' COPPER GROUND RODS. PROVIDE GROUNDING SYSTEM TO MDP IN ACCORDANCE WITH NEC. SEE GROUNDING DETAILS.
9. PROVIDE CIRCUITS, CONDUIT, AND BREAKERS TO SUPPORT HARDWIRED AUTOMATIC FLUSHERS AND FAUCETS IN COORDINATION WITH MECHANICAL SHEET REQUIREMENTS.
10. PROVIDE DISCONNECTS FOR HEATING DEVICES AS REQUIRED.
11. PROVIDE NEW CIRCUITS FOR RADIANT HEATERS AS INDICATED. MIN. 2-#10, 1#10 EGC IN 3/4" C. COORDINATE REQUIREMENTS WITH MECHANICAL SHEETS. SEE PANELBOARD SCHEDULE FOR BREAKER AND CIRCUIT DETAILS.
12. PROVIDE NEW CIRCUIT TO BACKFLOW HEATTRACE AND SUPPORTING CIRCUITS. SEE CIVIL AND MECHANICAL SHEETS FOR DETAILS. MIN. 2-#12, 1-#12 EGC IN 1/2" C. (APPROX. 50 FT FROM PANELBOARD)
13. EXHAUST FANS IDENTIFIED WITH AN "A" LABEL MUST BE OPERATED BY THE OCCUPANCY SENSOR / LIGHTING CONTROLS. EXHAUST FANS "A" MUST TURN ON WHEN LIGHTING IS ACTIVATED.

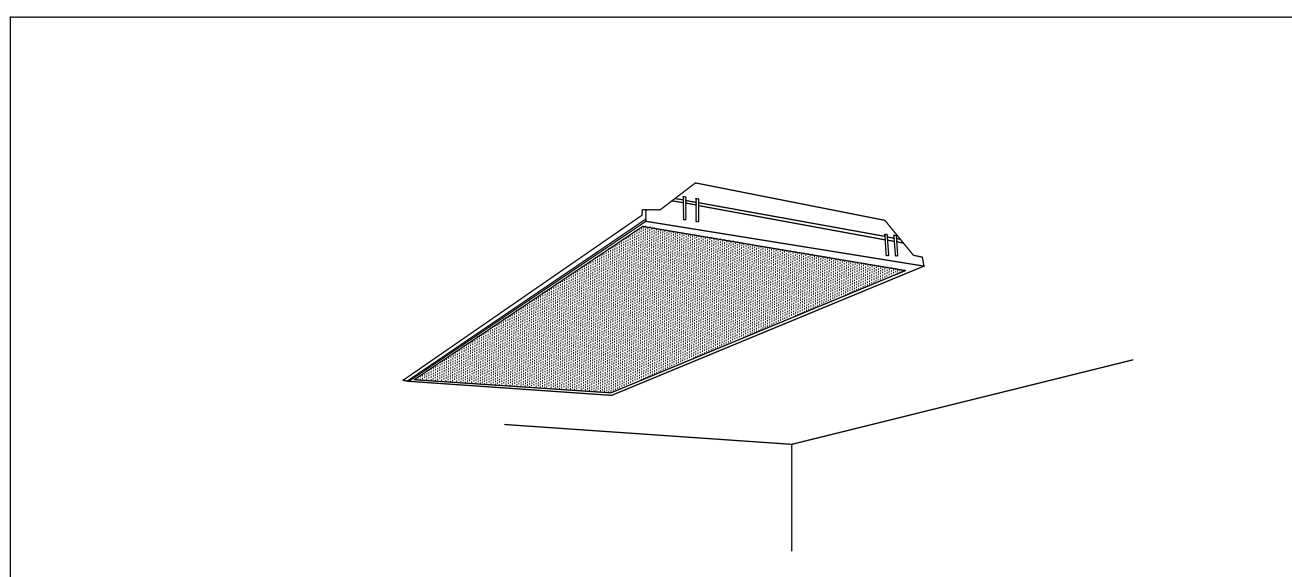
KEYED NOTES

- ① PROVIDE DRYER RECEPTACLE. NEMA 14-30R. 3 - #10, 1 - #10 EGC IN 3/4" CONDUIT.
- ② PROVIDE DEDICATED DUPLEX RECEPTACLE FOR FUTURE COMMUNICATION BACKBOARD. (2-#12, 1-#12 EGC. IN 1/2" C.)
- ③ PROVIDE DEDICATED DUPLEX RECEPTACLE FOR SECURITY CAMERA. FLUSH MOUNT IN CEILING. (2-#12, 1-#12 EGC. IN 1/2" C.)
- ④ PROVIDE DEDICATED DUPLEX WEATHERPROOF RECEPTACLE FOR SECURITY CAMERA. MOUNT UNDERNEATH SOFFIT. (2-#12, 1-#12 EGC. IN 1/2" C.)

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FINAL		E102	
<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE <small>CAMP LEJEUNE, NORTH CAROLINA</small>			
BUILDING AS2818			
HEAD REPAIRS			
LIGHTING AND POWER PLAN			
DES.:	K. BROWN	DATE:	
DR.:	K. BROWN	SIZE:	
CHK.:	K. BROWN	CODE IDENT. NO.:	
SUBMITTED BY:	M. HUNTER	NAV/FAC DRAWING NO.:	60039625
DESIGN DIR.:	J.F. ORR	CONST. CONTR. NO.:	22-0005
APPROVED: PWO OR OICC:		SCALE:	NOTED
PWO or OICC	E1 80091	SPEC.:	NA
SATISFACTORY TO:		SHEET:	21 OF 22

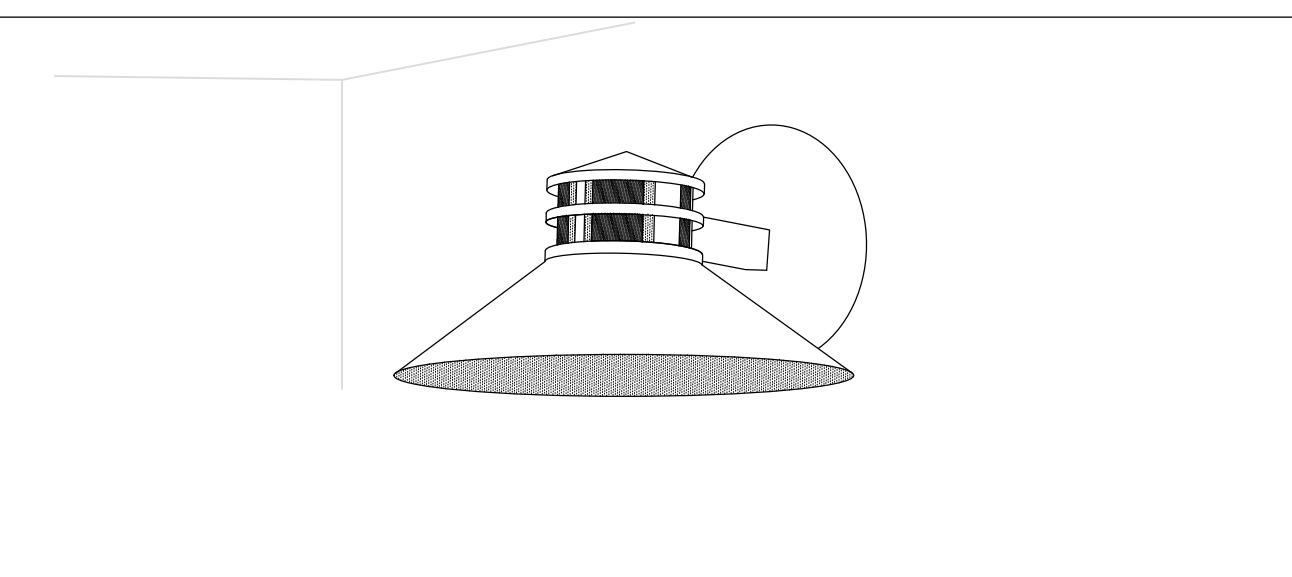


NOTE: THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

- LUMINAIRE REQUIREMENTS:**
- HOUSING - DIE-FORMED, COLD ROLLED STEEL. SIZE AS INDICATED IN LUMINAIRE SCHEDULE.
 - OPTICS - ACRYLIC OR POLYCARBONATE LENS AS INDICATED IN LUMINAIRE SCHEDULE.
 - LIGHT SOURCE - SOLID STATE LEDS, 3500K CCT UON, MINIMUM 80 CRI UON, AND MINIMUM EFFICACY OF 100 LUMENS/WATT UON. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
 - DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DIMMABLE DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, AND < 20% THD. ON/OFF CONTROL AND FULLY DIMMABLE DOWN TO 10% MINIMUM OR AS INDICATED IN LUMINAIRE SCHEDULE.
 - CERTIFICATION - UL LISTED FOR DRY OR DAMP LOCATION, ROHS COMPLIANT, DLC QUALIFIED. COMPLIES WITH IES LM79, LM80 AND TM21 TESTING STANDARDS.
 - MOUNTING - RECESSED IN HARD OR ACOUSTICAL TILE CEILING.
 - OPTIONS - EDGE-LIT LENS, PRISMATIC LENS, EMERGENCY BATTERY BACK-UP, INTEGRAL OCCUPANCY/VACANCY SENSOR, VARIOUS SIZE AND OUTPUT OPTIONS, SURFACE-MOUNTING KIT.

FLAT LENS LED LUMINAIRE

REVISED: NOVEMBER 2020 LIGHTING PLATE: **NL-2**

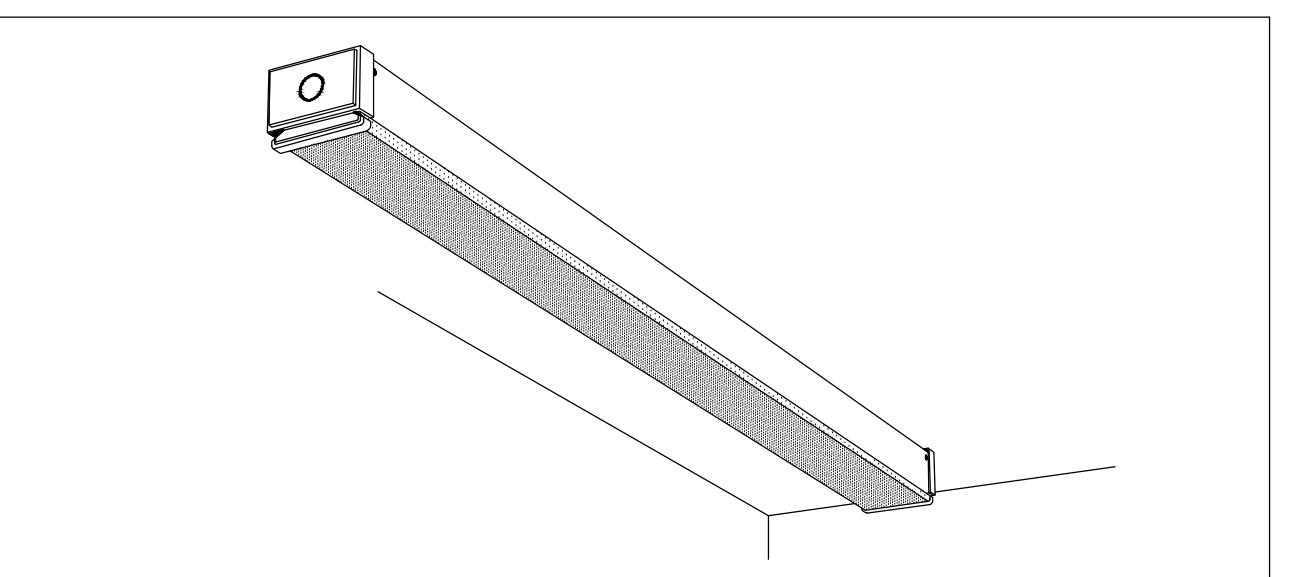


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- LUMINAIRE REQUIREMENTS:**
- HOUSING - DIE-CAST ALUMINUM HOUSING WITH POWDER COAT FINISH.
 - OPTICS - DIFFUSE VANDAL-RESISTANT ACRYLIC LENS. BUG UPLIGHT RATING OF U0, WITH GLARE RATING AS DETERMINED BY LIGHTING ZONE INSTALLED.
 - LIGHT SOURCE - SOLID STATE LEDS, 3000K CCT UON, MINIMUM 80 CRI UON, AND MINIMUM EFFICACY OF 50 LUMENS/WATT UON. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
 - DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DIMMABLE DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120 OR 277V, THERMAL MANAGEMENT, AND < 20% THD. ON/OFF CONTROL AND FULLY DIMMABLE DOWN TO 10% MINIMUM OR AS INDICATED IN LUMINAIRE SCHEDULE.
 - CERTIFICATION - UL LISTED FOR WET LOCATION, ROHS COMPLIANT. COMPLIES WITH IES LM79, LM80 AND TM21 TESTING STANDARDS.
 - MOUNTING - SURFACE MOUNTED WITH STAINLESS STEEL MOUNTING HARDWARE.
 - OPTIONS - VARIOUS LENSES, BODY SHAPES, AND STYLES.

LED EXTERIOR DECORATIVE WALL SCONCE

REVISED: NOVEMBER 2020 LIGHTING PLATE: **XL-9**



NOTE: THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

- LUMINAIRE REQUIREMENTS:**
- HOUSING - EXTRUDED ALUMINUM OR WELDED STEEL HOUSING WITH SNAP-ON END CAPS. SIZE AS INDICATED IN LUMINAIRE SCHEDULE.
 - OPTICS - DIFFUSE ACRYLIC LENS.
 - LIGHT SOURCE - SOLID STATE LEDS, 3500K CCT UON, MINIMUM 80 CRI UON, AND MINIMUM EFFICACY OF 90 LUMENS/WATT UON. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
 - DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DIMMABLE DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, AND < 20% THD. ON/OFF CONTROL AND FULLY DIMMABLE DOWN TO 10% MINIMUM OR AS INDICATED IN LUMINAIRE SCHEDULE.
 - CERTIFICATION - UL LISTED FOR DAMP OR WET LOCATION, ROHS COMPLIANT. COMPLIES WITH IES LM79, LM80 AND TM21 TESTING STANDARDS.
 - MOUNTING - PENDANT, STEM, OR SURFACE MOUNTED WITH STAINLESS STEEL MOUNTING HARDWARE.
 - OPTIONS - INTEGRAL OCCUPANCY SENSOR, EMERGENCY BATTERY BACK-UP, VARIOUS PROFILE DIMENSIONS AND RUN LENGTHS, AND VARIOUS CLEAR OR FROSTED POLYCARBONATE LENSES.

LED INDUSTRIAL LIGHT

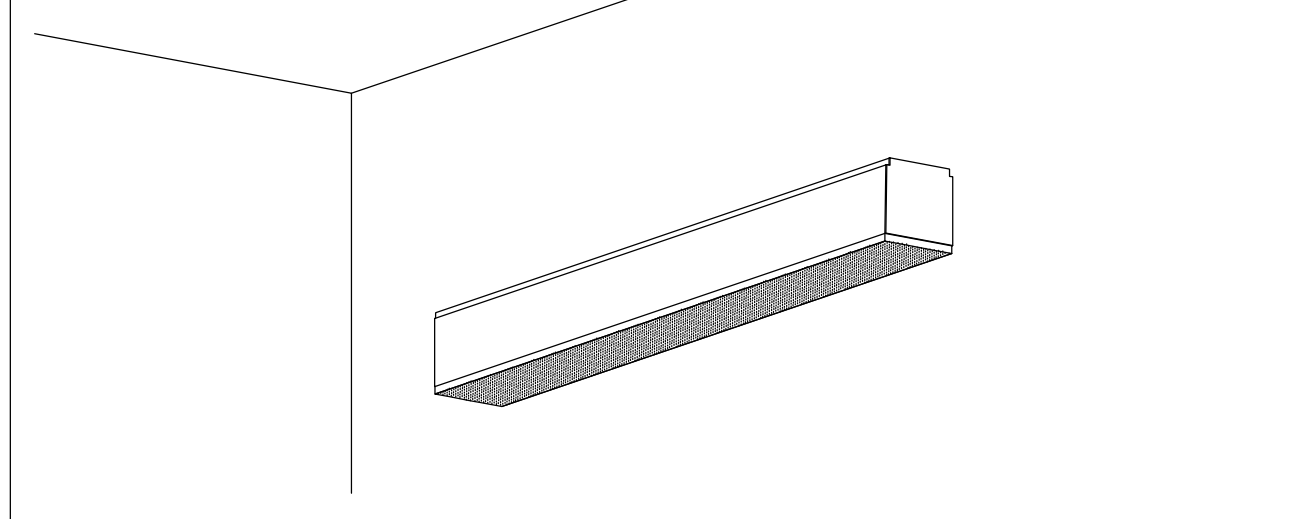
REVISED: NOVEMBER 2020 LIGHTING PLATE: **NL-23**

NEW PANELBOARD: MDP										
LOAD SERVED	WIRE SIZE	TRIP POLE	CKT NO.	A	VA/PHASE	B	CKT NO.	TRIP POLE	WIRE SIZE	LOAD SERVED
RECEPTACLES-GFCI	#12	20A/1	1				2	20A/1	#12	RECEPTACLES-GFCI
RECEPTACLES-GFCI	#12	20A/1	3				4	20A/1	#12	RECEPTACLES-GFCI
DRYER	#10	30A/2	5				6	30A/2	#10	WATER-HEATER
WASHER/RECEPT	#12	20A/1	7				8	20A/1	#12	LIGHTING
LIGHTING	#12	20A/1	9				10	20A/1	#12	LIGHTING
AUTO FLUSHERS	#12	20A/1	11				12	20A/1	#12	EF-1AB
SPARE	#12	20A/1	13				14	20A/1	#12	EF-2AB
ERH3	#10	30A/2	15				16	20A/1	#12	EF-3AB
ERH1-A-E-D	#10	30A/2	17				18	20A/1	#12	FAUCET_FLUSH_VALVE
			19				20	20A/1	#12	ERH2-A-E-D
			21				22	30A/2	#10	ERH2-B-C
			23				24	30A/2	#10	ERH2-B-C
			25				26	30A/2	#10	ERH2-B-C
			27				28	30A/2	#10	ERH2-B-C
DEDICATED_COMM	#12	20A/1	29				30	20A/1	#12	DEDICATED_CAM1
DEDICATED_CAM2	#12	20A/1	31				32	20A/1	#12	SPARE
SPARE	#12	20A/1	33				34	20A/1	#12	SPARE
SPARE	#12	20A/1	35				36	20A/1	#12	SPARE
SPARE	#12	20A/1	37				38	20A/1	#12	SPARE
SPARE	#12	20A/1	39				40	20A/1	#12	SPARE
SPARE	#12	20A/1	41				42	20A/1	#12	SPARE

SURFACE 240/120 VOLT RMS 200 AMP LOAD X WITH MAIN LUG ONLY
 FLUSH AIC 65,000 1.0 3 WIRE MFG X WITH 200A MAIN BREAKER

1. HVAC EQUIPMENT SHALL USE TYPE HACR BREAKERS.

LIGHTING FIXTURE SCHEDULE						
MARK	DESCRIPTION	SIZE/TYPE	VOLTS	LAMPS	WATTS	COLOR
△	NL-2. FLAT LENS LED LUMINAIRE	2x4 FLUSH MOUNT	120V	LED 3500K 4000 LUMENS	33	WHITE
△	NL-7. WALL MOUNTED LINEAR	2' VANITY LIGHT	120V	LED 3500K 500 LUMEN	7	WHITE
△	NL-9. DECORATIVE LED WALL SCONCE W/ PHOTOCCELL U.L. LISTED FOR WET LOCATIONS	VARIES	120V	LED 3500K 640 LUMENS	7	WHITE
△	NL-12. RECESSED DOWNLIGHT U.L. LISTED FOR WET LOCATIONS.	6" LED DOWNLIGHT	120V	LED 3500K 500 LUMENS	7	WHITE
△	NL-23. LED INDUSTRIAL LIGHT WET LOCATION RATED, SURFACE MOUNTED	4' STRIP	120V	LED 3500K 3000 LUMEN	30	WHITE

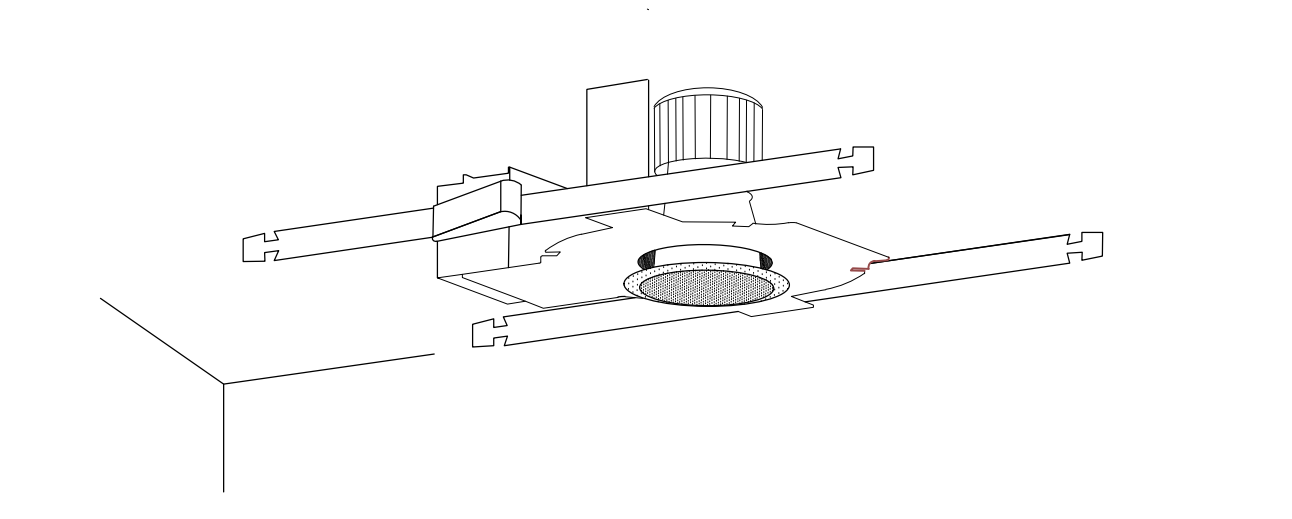


NOTE: THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

- LUMINAIRE REQUIREMENTS:**
- HOUSING - COLD ROLLED STEEL, EXTRUDED ALUMINUM, OR DIE CAST ALUMINUM BODY WITH DIE CAST END CAPS AND STAINLESS STEEL HARDWARE. SIZE AS INDICATED IN LUMINAIRE SCHEDULE.
 - OPTICS - REFRACTIVE LENS OPTIMIZED FOR ASYMMETRIC DISTRIBUTION.
 - LIGHT SOURCE - SOLID STATE LEDS, 3500K CCT UON, MINIMUM 80 CRI UON, AND MINIMUM EFFICACY OF 85 LUMENS/WATT UON. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
 - DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DIMMABLE DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, AND < 20% THD. ON/OFF CONTROL AND FULLY DIMMABLE DOWN TO 10% MINIMUM OR AS INDICATED IN LUMINAIRE SCHEDULE.
 - CERTIFICATION - UL LISTED FOR DAMP LOCATION, ROHS COMPLIANT. COMPLIES WITH IES LM79, LM80 AND TM21 TESTING STANDARDS.
 - MOUNTING - WALL SURFACE MOUNTED
 - OPTIONS - EMERGENCY BATTERY BACK-UP, AND VARIOUS PROFILE DIMENSIONS AND RUN LENGTHS. ALSO AVAILABLE WITH INDIRECT LIGHTING ELEMENT.

DIRECT WALL-MOUNTED LINEAR

REVISED: NOVEMBER 2020 LIGHTING PLATE: **NL-7**

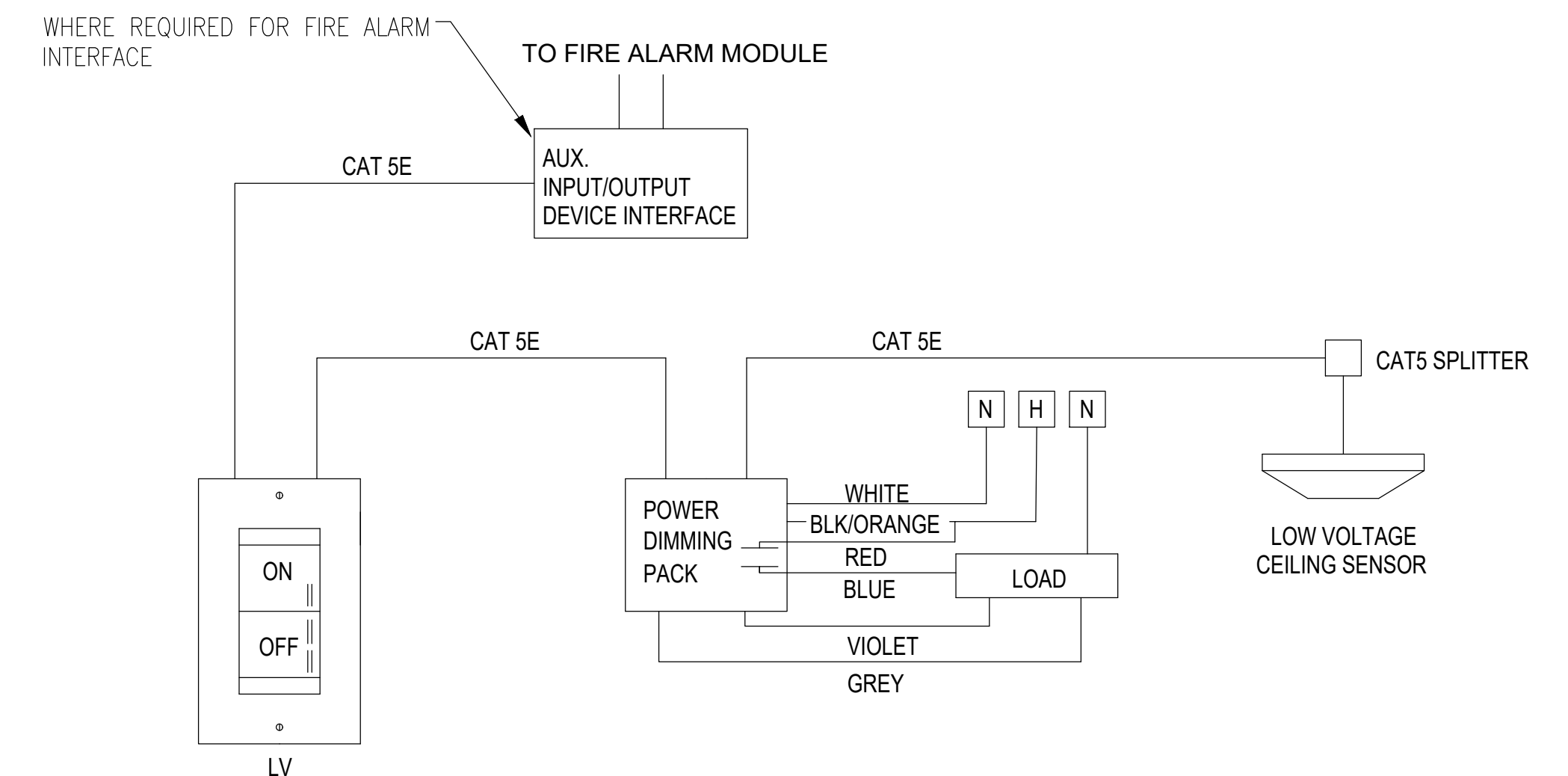


NOTE: THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

- LUMINAIRE REQUIREMENTS:**
- HOUSING - COLD-ROLLED STEEL OR DIE CAST ALUMINUM, WITH HEAT SINK. APERTURE SIZE AND SHAPE AS INDICATED IN LUMINAIRE SCHEDULE.
 - LIGHT SOURCE - SOLID STATE LEDS, 3500K CCT UON, MINIMUM 80 CRI UON, AND MINIMUM EFFICACY OF 70 LUMENS/WATT UON. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
 - DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DIMMABLE DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, AND < 20% THD. ON/OFF CONTROL AND FULLY DIMMABLE DOWN TO 10% MINIMUM OR AS INDICATED IN LUMINAIRE SCHEDULE.
 - CERTIFICATION - UL LISTED FOR DRY OR DAMP LOCATION, ROHS COMPLIANT. COMPLIES WITH IES LM79, LM80 AND TM21 TESTING STANDARDS.
 - MOUNTING - RECESSED IN HARD OR ACOUSTICAL TILE CEILING. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
 - OPTIONS - EMERGENCY BATTERY BACK-UP, VARIOUS ACRYLIC OR POLYCARBONATE LENSES, REFLECTORS, LOUVERS AND TRIMS. VARIOUS BEAM ANGLES. IC RATED HOUSING.

FIXED RECESSED DOWNLIGHT

REVISED: NOVEMBER 2020 LIGHTING PLATE: **NL-12**

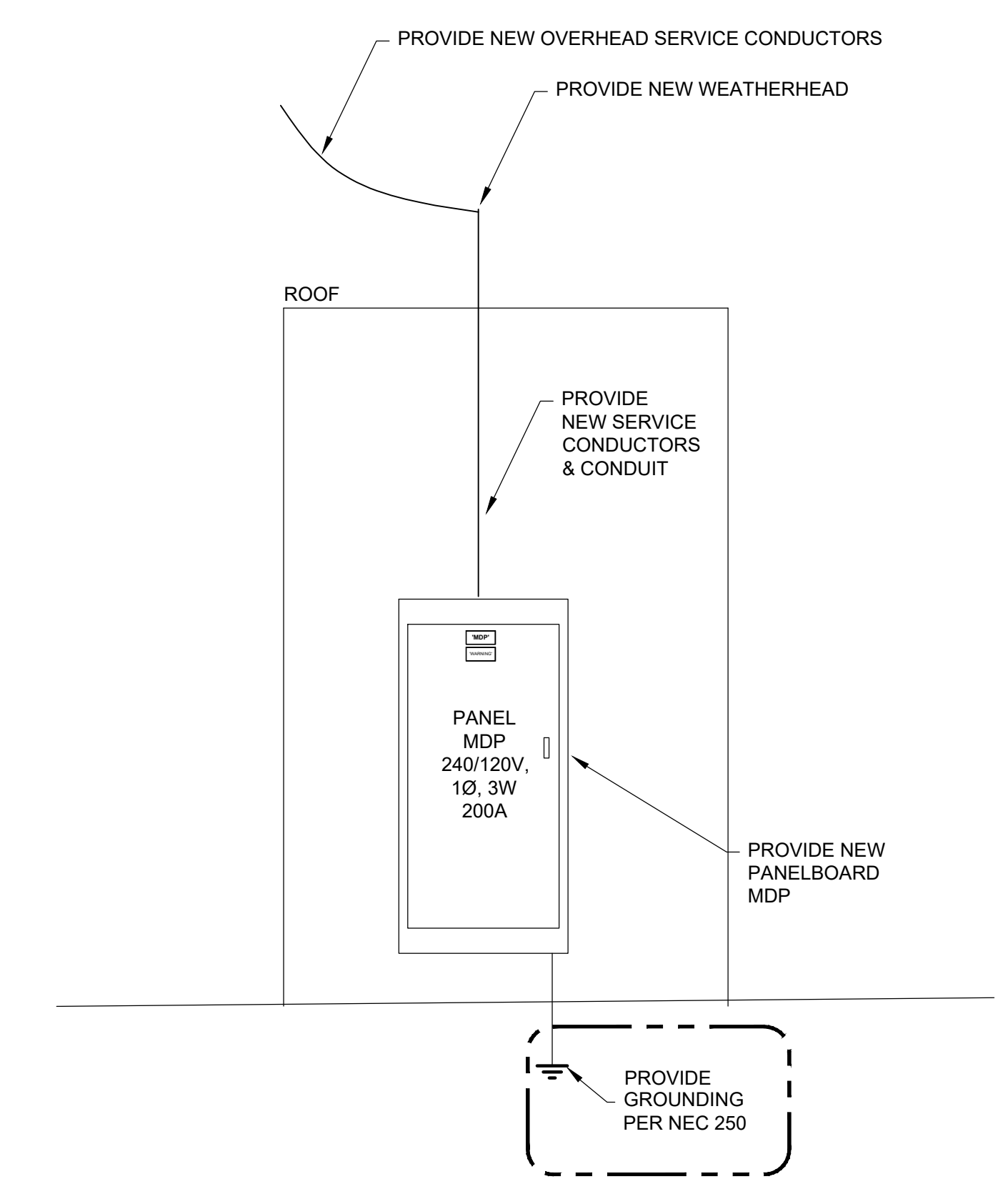


CEILING OCCUPANCY/VACANCY SENSOR DIMMING DIAGRAM

SCALE: NTS

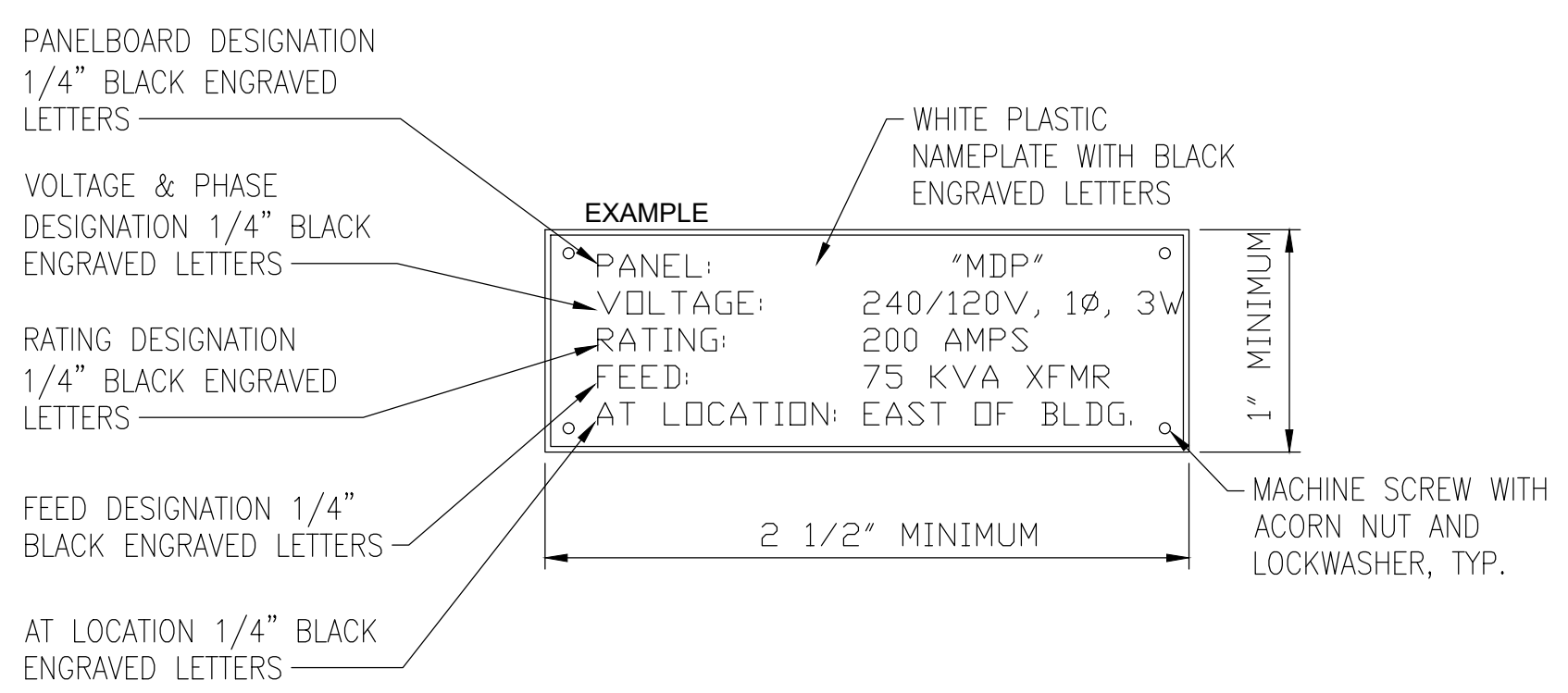
OPERATION SEQUENCE

- COORIDORS, LOBBIES, VESTIBULES, TOILET ROOMS, MUST ILLUMINATE TO 100% PER OCCUPANCY SENSOR SIGNAL. OTHER SPACES MUST BE PROGRAMMED TO 50% AUTO ON PER OCCUPANCY SENSOR SIGNAL. VACANCY SENSOR IS MANUAL ON.
- LIGHT FIXTURE MUST CONTINUOUSLY DIM/BRIGHTEN BASED UPON INPUT FROM THE DIMMER.
- AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURE MUST TURN OFF.



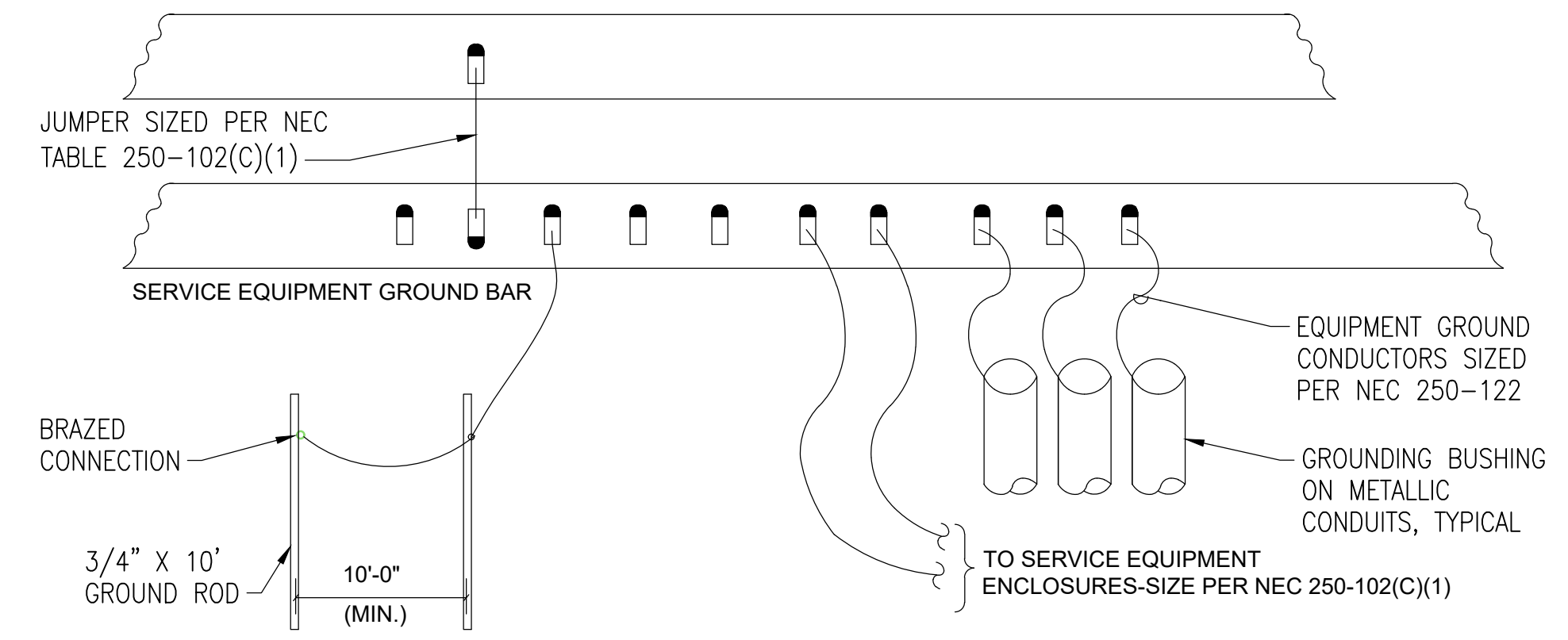
POWER RISER DETAIL

SCALE: NTS



PANELBOARD NAMEPLATE DETAIL

SCALE: NTS



GENERAL SERVICE GROUND DETAIL

SCALE: NTS

DISCLOSURE OF INFORMATION CONTRACTOR SHALL COMPLY AS FOLLOWS:

- THE CONTRACTOR SHALL NOT RELEASE TO ANYONE OUTSIDE THE CONTRACTOR'S ORGANIZATION ANY UNCLASSIFIED INFORMATION, REGARDLESS OF MEDIUM (E.G., FILM, TAPE, DOCUMENT), PERTAINING TO ANY PART OF THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT, UNLESS:
 - THE CONTRACTING OFFICER HAS GIVEN PRIOR WRITTEN APPROVAL OR THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.
- REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED, THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED DATE FOR RELEASE.
- THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.

FINAL		E103	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND			
MARINE CORPS BASE			
CAMP LEJEUNE, NORTH CAROLINA			
BUILDING AS2818			
HEAD REPAIRS			
DETAILS, SCHEDULES, AND RISER			
DES.:	K. BROWN	DATE:	
DR.:	K. BROWN	DATE:	
CHK.:	K. BROWN	DATE:	
SUBMITTED BY:	M. HUNTER	DATE:	
DESIGN DIR.:	J.F. ORR	DATE:	
APPROVED: PWO OR OICC:		DATE:	
SAISFACTORY TO:		DATE:	
CODE IDENT. NO.		NAVFAC DRAWING NO.	
E1 80091		60039626	
CONST. CONTR. NO.		22-0005	
SCALE:	NOTED	SPEC.	NA
SHEET		22 OF 22	