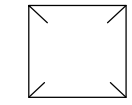

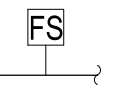
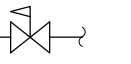
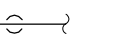
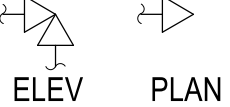
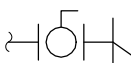
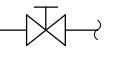
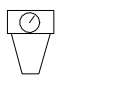
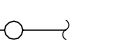
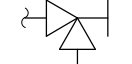

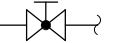
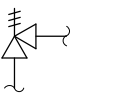
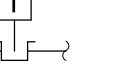



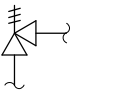
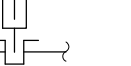
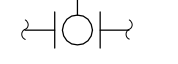
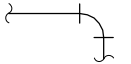
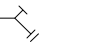
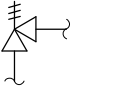

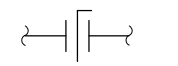
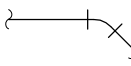
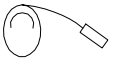
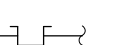

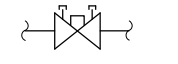


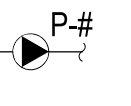
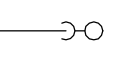
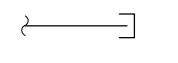
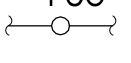


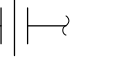
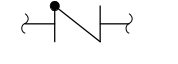
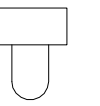

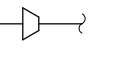
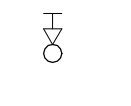
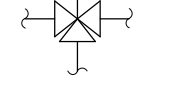

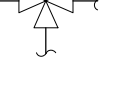

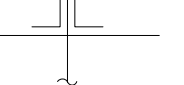


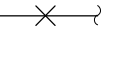

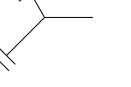
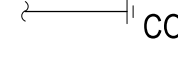
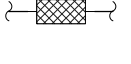
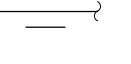
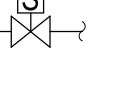
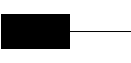
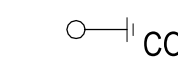
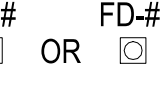
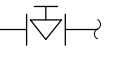
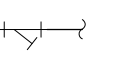

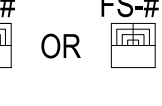
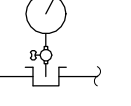
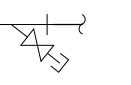



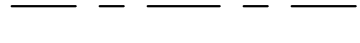


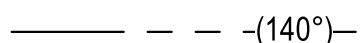


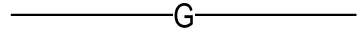
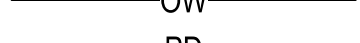
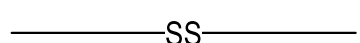
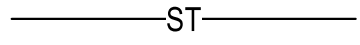
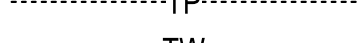
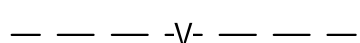


PLOTTED: 8/2/2021 5:07:39 PM

FILE NAME: BIM 360/HF PACKAGE 3P1127 LOG COM CSP-1639604P-04

PLUMBING SYMBOLS LEGEND									
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ACCESS PANEL		DIRECTION OF WATER FLOW		PIPING - FLOW SWITCH		PRESSURE REDUCING VALVE		TEE DOWN
	ANGLE GATE VALVE		DRAIN VALVE		GATE VALVE		PRESSURE REGULATOR		TEE UP
	ANGLE GLOBE VALVE		ELBOW 90° DOWN		GLOBE VALVE		PRESSURE RELIEF VALVE (TEMPERATURE & PRESSURE)		TEMPERATURE SENSOR
	BACKFLOW PREVENTER		ELBOW 90° UP		GAS REGULATOR		PRESSURE RELIEF VALVE (TEMPERATURE)		THERMOMETER
	BALL VALVE		ELBOW 90°		HOSE BIBB		PRESSURE RELIEF VALVE (PRESSURE)		THERMOSTAT (DASHED LINE RUNS TO CONTROLLED DEVICE)
	BUTTERFLY VALVE		ELBOW 45°		HOSE & QUICK COUPLERS		PT (PRESSURE & TEMPERATURE) TEST PORT		TRAP - ELEVATION
	CALIBRATED BALANCE VALVE		EXPANSION JOINT		KEYNOTE		PUMP (ARROW IS DIRECTION OF FLOW)		TRAP - PLAN
	CAP		FLOOR CLEAN-OUT		LUBRICATOR		QUICK DISCONNECT		UNION
	CHECK VALVE (SWING GATE)		FILTER		METER		REDUCER		VALVE IN RISE
	CONTROL VALVE (3-WAY)		FILTER/REGULATOR		MIXING VALVE		ROOF DRAIN		VENT THROUGH ROOF
	CONNECT TO EXISTING		FILTER/REGULATOR/LUBRICATOR		PIPE ANCHOR		REMOVE EXISTING TO		WALL HYDRANT
	CLEAN-OUT		FLEXIBLE CONNECTION		PIPE GUIDE		SOLENOID VALVE		WHA-X WATER HAMMER ARRESTOR
	CLEAN-OUT IN VERTICAL		FLOOR DRAIN W/ & W/O P-TRAP		PLUG VALVE		STRAINER		
	COMPRESSED AIR OUTLET		FLOOR SINK W/ & W/O P-TRAP		PRESSURE GAUGE WITH GAUGE COCK		STRAINER WITH VALVED AND CAPPED BLOW DOWN		
NOTE: LEGENDS ON THIS SHEET ARE ALL-INCLUSIVE. ALL SYMBOLS, ABBREVIATIONS, OR PIPE SYSTEMS MAY NOT BE PART OF THIS PROJECT.									

PLUMBING ABBREVIATIONS							
ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION
ABV	ABOVE	CU FT	CUBIC FEET	FT	FOOT, FEET	POL	PETROLEUM / OIL / LUBRICANT
AC	AIR COMPRESSOR	CUH	CABINET UNIT HEATER	FTG	FOOTING	PSI	POUNDS PER SQUARE INCH
AD	ACCESS DOOR, AIR DRYER	CWBT	CHILLED WATER BUFFER TANK	GA	GAUGE	QTY	QUANTITY
AFF	ABOVE FINISHED FLOOR	CWR	CHILLED WATER RETURN	GBD	GARBAGE DISPOSAL	REQ'D	REQUIRED
AFG	ABOVE FINISHED GRADE	CWS	CHILLED WATER SUPPLY	GC	GENERAL CONTRACTOR	RPM	REVOLUTIONS PER MINUTE
AFR	ABOVE FINISHED ROOF	DEG	DEGREE(S)	GPM	GALLONS PER MINUTE	RWC	RAIN WATER CONDUCTOR
AHU	AIR HANDLING UNIT	DF	DRINKING FOUNTAIN	GWH	GAS WATER HEATER	RWL	RAIN WATER LEADER
AP	ACCESS PANEL	DFU	DRAINAGE FIXTURE UNIT	HP	HORSE POWER	S	SINK
APPROX	APPROXIMATE(LY)	DIA	DIAMETER	HTG	HEATING	SF	SQUARE FEET
ARCH	ARCHITECT OR ARCHITECTURAL	DN	DOWN	HV	HEATING AND VENTILATION	SFU	SUPPLY FIXTURE UNIT(S)
AST	ABOVE GROUND STORAGE TANK	DU	DISTRIBUTION UNIT	HVAC	HEATING VENTILATION / AIR CONDITIONING	SH	SHOWER
C	CELSIUS	DWG	DRAWING	IE	INVERT ELEVATION	SRC	SECONDARY RAIN CONDUCTOR
Kg	KILOGRAM(S)	EC	ELECTRICAL CONTRACTOR	IN	INCH(ES)	SS	SERVICE SINK
L/s	LITERS PER SECOND	EL	EXPANSION LOOP	IRH	INFRARED RADIANT HEATER	STRUC	STRUCTURAL
m	METERS	ELEC	ELECTRIC(AL)	KS	KITCHEN SINK	SWC	SAFE WASTE CONNECTION
m³	CUBIC METERS	ELEV	ELEVATION	KW	KILOWATTS	TD	TRENCH DRAIN
m²	SQUARE METERS	ESEW	EMERGENCY SHOWER & EYE WASH	L	LAVATORY	TE	TOP ELEVATION
m/s	METERS PER SECOND	ET	EXPANSION TANK	LB(S)	POUND(S)	TEMP	TEMPERATURE
mm	MILIMETERS	ETR	EXISTING TO REMAIN	MAX	MAXIMUM	TOF	TOP OF FOOTING
Pa	PASCALS	EW, EEW	EMERGENCY EYE WASH	MC	MECHANICAL CONTRACTOR	TOP	TOP OF PIPE
W	WATT(S)	EW	ELECTRIC WATER COOLER	MECH	MECHANICAL	TP	TRAP PRIMER VALVE
BLDG	BUILDING	EW	ELECTRIC WATER HEATER	MFR, MFRG	MANUFACTURER	TYP	TYPICAL
BLW	BELOW	EX, EXIST	EXISTING	MIN	MINIMUM	U	URINAL
BOF	BOTTOM OF FOOTING	(F)	FUTURE	MISC	MISCELLANEOUS	UNO	UNLESS NOTED OTHERWISE
BOT	BOTTOM	F	FAHRENHEIT	MR	MOP RECEPTOR	VOL	VOLUME
C	CELSIUS	FCO	FLOOR CLEANOUT	NC	NORMALLY CLOSED	W	WASTE
CB	CATCH BASIN	FFE	FINISHED FLOOR ELEVATION	NIC	NOT IN CONTRACT	W/	WITH
CFH	CUBIC FEET PER HOUR	FIN	FINISHED	NO	NORMALLY OPEN	W/O	WITHOUT
CLG	CEILING	FLEX	FLEXIBLE	NTS	NOT TO SCALE	WB	WASHER BOX
CONC	CONCRETE	FLR	FLOOR	OB	OUTLET BOX	WC	WATER CLOSET, WATER COLUMN
COND	CONDENSATION	FPM	FEET PER MINUTE	P&T	PRESSURE & TEMPERATURE	WF	WASH FOUNTAIN
CONN	CONNECTION	FRP	FIBERGLASS REINFORCED PLASTIC PIPING	PC	PLUMBING CONTRACTOR	WH	WATER HEATER
CONT	CONTINUOUS, CONTINUATION			PDI	PLUMBING & DRAINAGE INSTITUTE		
CONTR	CONTRACTOR						

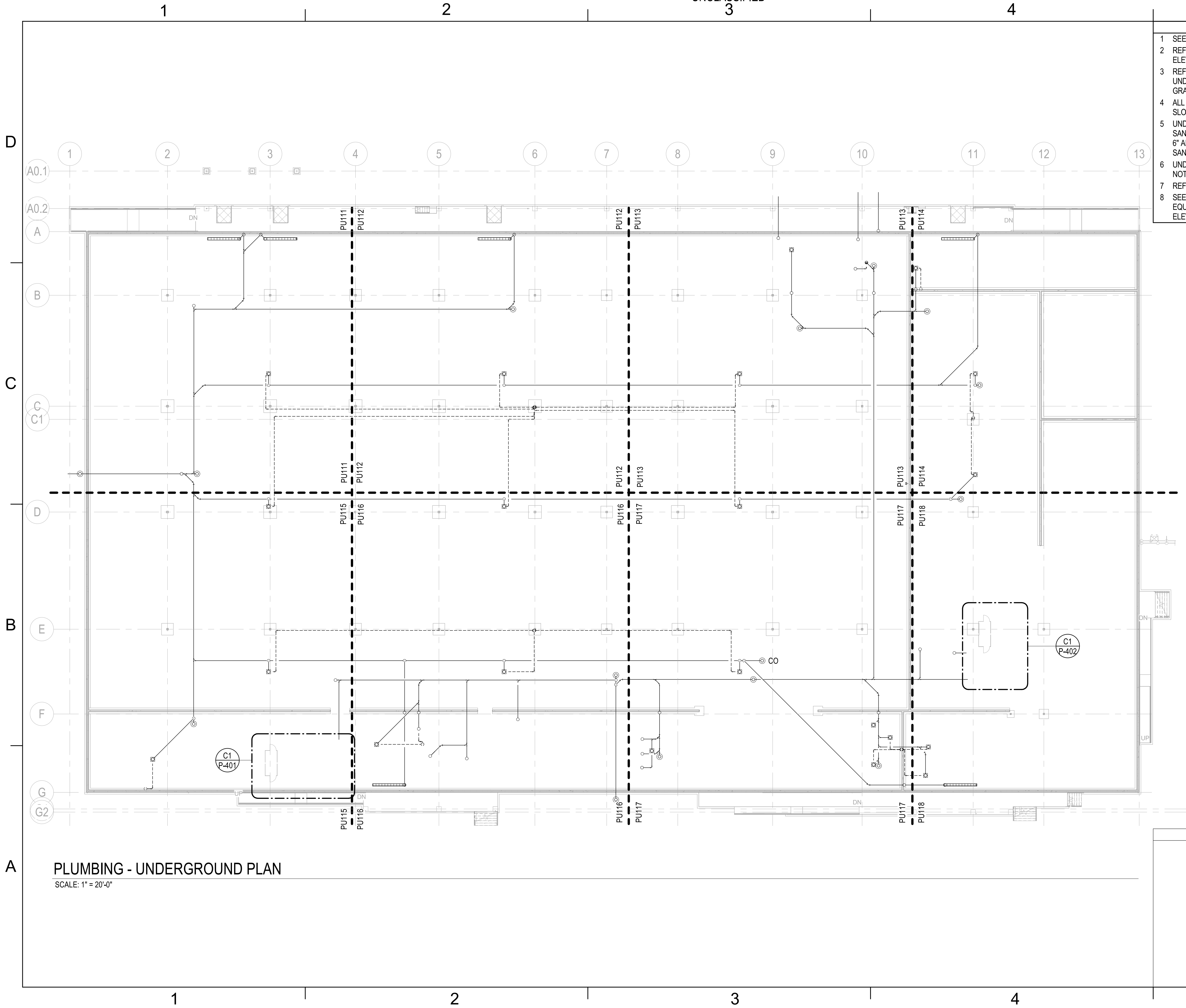
PLUMBING GENERAL NOTES									
1.	PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED, TO INSTALL COMPLETE FOR AN OPERABLE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE. ALL MATERIAL SHALL BE NEW AND OF GOOD QUALITY. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER.								
2.	CONTRACT DOCUMENT DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DRAWING DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATION NECESSARY TO ACHIEVE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS. DO NOT SCALE DRAWINGS. CERTAIN ITEMS SUCH AS RISES AND DROPS IN PIPING, ACCESS DOORS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY NOT FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE TYPES OF ITEMS.								
3.	INSTALL ALL PLUMBING EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION. LOCATE ALL PLUMBING EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, VALVING, ETC.								
4.	COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, SOILS, MECHANICAL, ELECTRICAL, COMMUNICATIONS WORK, ETC., AS SHOWN IN OTHER CONTRACT DOCUMENTS. PROPERLY CONSTRUCTED OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST. LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.								
5.	MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.								
6.	ALL TESTS SHALL BE COMPLETED BEFORE ANY EQUIPMENT OR PIPING INSULATION IS APPLIED, OR CONCEALED.								
7.	LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH A STRAIGHT SECTION OF PIPE UPSTREAM AND DOWNSTREAM, AS RECOMMENDED BY THE DEVICE MANUFACTURER FOR ACCURACY. INSTALL THERMOMETER IN A VERTICAL AND TILTED POSITION TO ALLOW READING BY OBSERVER STANDING ON FLOOR.								
8.	WHERE TWO OR MORE PRODUCTS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCTS OF A SINGLE MANUFACTURER SHALL BE USED.								
9.	PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE VALVES AND OTHER CONCEALED PLUMBING EQUIPMENT, DEVICES, ETC. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.								
10.	ALL OPENINGS IN FIRE RESISTANCE RATED WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 814 & UL 1479. SIMILARLY, SEAL/FIRESTOP AS REQUIRED AT SMOKE RATED SURFACES AS WELL.								
11.	PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING CONNECTED TO AIR COMPRESSOR AND OTHER EQUIPMENT WHICH REQUIRES VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.								
12.	INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE EASILY ACCESSIBLE. ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (AKA MEMORY STOPS). ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.								
13.	UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT AND IN BYPASSES TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.								
14.	DRAIN PIPING IN MECHANICAL ROOMS SHALL BE ROUTED SO AS NOT TO CREATE TRIPPING HAZARDS.								
15.	LOCATIONS WHERE SANITARY, WASTE, AND VENT PIPING PENETRATES THE SLAB, THE TRANSITION FROM PVC PIPE TO CAST IRON PIPE SHALL OCCUR BELOW THE SLAB.								
16.	PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS. PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR MATERIALS.								
17.	VENT FROM NATURAL GAS EQUIPMENT PRV'S TO BUILDING EXTERIOR. PIPE SHALL BE SAME SIZE AS VENT OPENING ON PRV'S. PROVIDE GOOSENECK WITH INSECT SCREEN AT EXTERIOR VENT TERMINATION.								
18.	REFER TO ARCHITECTURAL DRAWINGS FOR PENETRATIONS.								
19.	PROPERLY SEAL ALL PLUMBING SYSTEMS PIPING AND COMPONENT'S PENETRATIONS OF BUILDING AIR BARRIER.								
20.	SHUT-OFF VALVES SHALL BE INTEGRATED INTO THE PLUMBING DISTRIBUTION SYSTEMS TO PERMIT THE ISOLATION OF A FIXTURE OR EQUIPMENT TO PERMIT REPAIR OR MAINTENANCE, WITHOUT DISRUPTION OF OTHER FIXTURES OR EQUIPMENT.								
21.	WATER HAMMER ARRESTORS SHALL BE INSTALLED AT FLUSH VALVE-OPERATED FIXTURES, SOLENOID VALVES, AND ANY OTHER QUICK CLOSING VALVES TO MINIMIZE NOISE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE AND PDI STANDARD WH201. ARRESTORS SHALL BE INSTALLED WITH PROPER ACCESS PANELS. AIR CHAMBERS SHALL NOT BE PERMITTED.								
22.	ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER CONNECTION SUPPLIED FROM A TRAP PRIMER VALVE, CONFORMING TO ASSE 1018 (ASSE 1044 FOR OPEN WAREHOUSE AREA), WITH APPROPRIATE DISTRIBUTION UNIT, TO REDUCE TRAP SEAL EVAPORATION.								
23.	WATER PIPE SIZES ARE BASED ON A MINIMUM WORKING PRESSURE OF 62 PSI AT A FLOW RATE OF 82 GPM AT THE LOCATION WHERE THE MAIN SERVICE ENTERS THE BUILDING.								

PLUMBING PIPE LEGEND		
SYMBOL	ABBREV	DESCRIPTION
	CA	COMPRESSED AIR
	CW	DOMESTIC COLD WATER
	HW	DOMESTIC HOT WATER
	HWR	DOMESTIC HOT WATER RETURN
	HW140	DOMESTIC HOT WATER (140°C)
	HWR140	DOMESTIC HOT WATER RETURN (140°C)
	FP	FIRE PROTECTION
	G	NATURAL GAS
	OW	OIL-LADEN WASTE
	PD	PUMP DISCHARGE
	SS	SANITARY SEWER
	ST	STORM SEWER
	TP	TRAP PRIMER PIPING
	TW	TEMPERED WATER
	V	SANITARY VENT

APPR	DATE
SYN	DESCRIPTION
	
<p>PRELIMINARY Not for construction</p>	
	
<p>Michael Baker INTERNATIONAL</p> <p>100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 A/E INFO APPROVED</p>	
<p>FOR COMMANDER NAVFAC</p> <p>ACTIVITY MARINE CORPS BASE CAMP LEJEUNE</p> <p>SATISFACTORY TO DATE DD/MM/YY DES SKH DRW JTP CHK DWH</p> <p>PM BRANCH HEAD DESIGN DIRECTOR FIRE PROTECTION</p>	
<p>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC DESIGN AND CONSTRUCTION MCB CAMP LEJEUNE</p>	<p>NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC JACKSONVILLE, NC LOGCOM CSP WAREHOUSE</p>
<p>PLUMBING GENERAL NOTES, ABBREVIATIONS & SYMBOLS</p>	
<p>SCALE: AS NOTED EPROJECT NO.: 1639600 CONSTR. CONTR. NO. N40085-20-C-0059 NAVFAC DRAWING NO. SHEET OF</p>	
<p>P-001</p>	

P1527 PREFINAL SUBMISSION - 08/06/2021

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600.P41
PLOTTED: 8/2/2021 5:08:36 PM



PLUMBING - UNDERGROUND PLAN
SCALE: 1" = 20'-0"

GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 3 REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 4 ALL UNDERFLOOR SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- 5 UNDERFLOOR VENTS SHALL CONNECT ABOVE CENTERLINE OF WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- 6 UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.
- 8 SEE CIVIL DWGS FOR ACTUAL FINISHED FLOOR ELEVATION. TOP OF SLAB EQUALS FINISHED FLOOR ELEVATION AND MUST SERVE AS THE REFERENCE ELEVATION 0.0'.



PRELIMINARY
Not for construction



Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE DD/MM/YY
DES SKH DRW JTP CHK DWH

PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVFAC DRAWING NO.

PROJECT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

PU110

PLUMBING - UNDERGROUND PLAN - OVERALL

LOGCOM CSP WAREHOUSE

JACKSONVILLE, NC

ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC DRAWING NO.

PROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

</

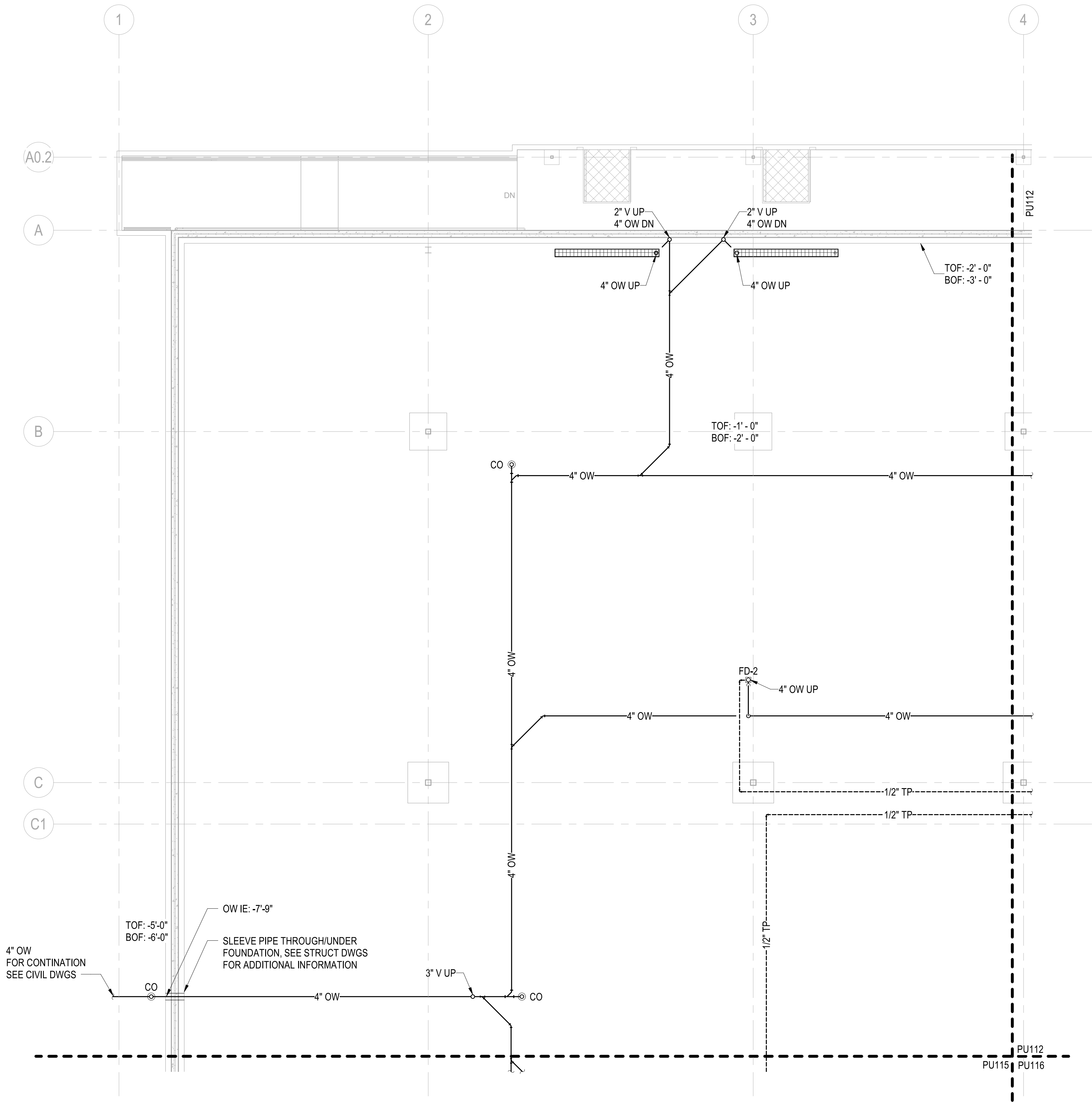
FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-01 PLOTTED: 8/2/2021 5:08:38 PM

D

C

B

A



PLUMBING - UNDERGROUND PLAN - AREA A
SCALE: 1/8" = 1'-0"

UNCLASSIFIED

GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 3 REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 4 ALL UNDERFLOOR SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- 5 UNDERFLOOR VENTS SHALL CONNECT ABOVE CENTERLINE OF WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- 6 UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.
- 8 SEE CIVIL DWGS FOR ACTUAL FINISHED FLOOR ELEVATION. TOP OF SLAB EQUALS FINISHED FLOOR ELEVATION AND MUST SERVE AS THE REFERENCE ELEVATION 0.0'.



PRELIMINARY
Not for construction



Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

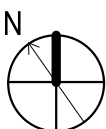
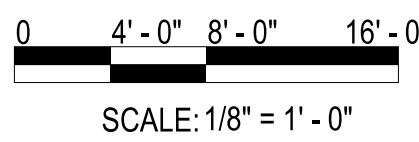
FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH DRW JTP CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - UNDERGROUND PLAN - AREA A

SCALE: AS NOTED
EPROJECT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
PU111

KEYPLAN

A	B	C	D
E	F	G	H



UNCLASSIFIED

P1527 PREFINAL SUBMISSION - 08/09/2021

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-01
PLOTTED: 8/2/2021 5:08:40 PM

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

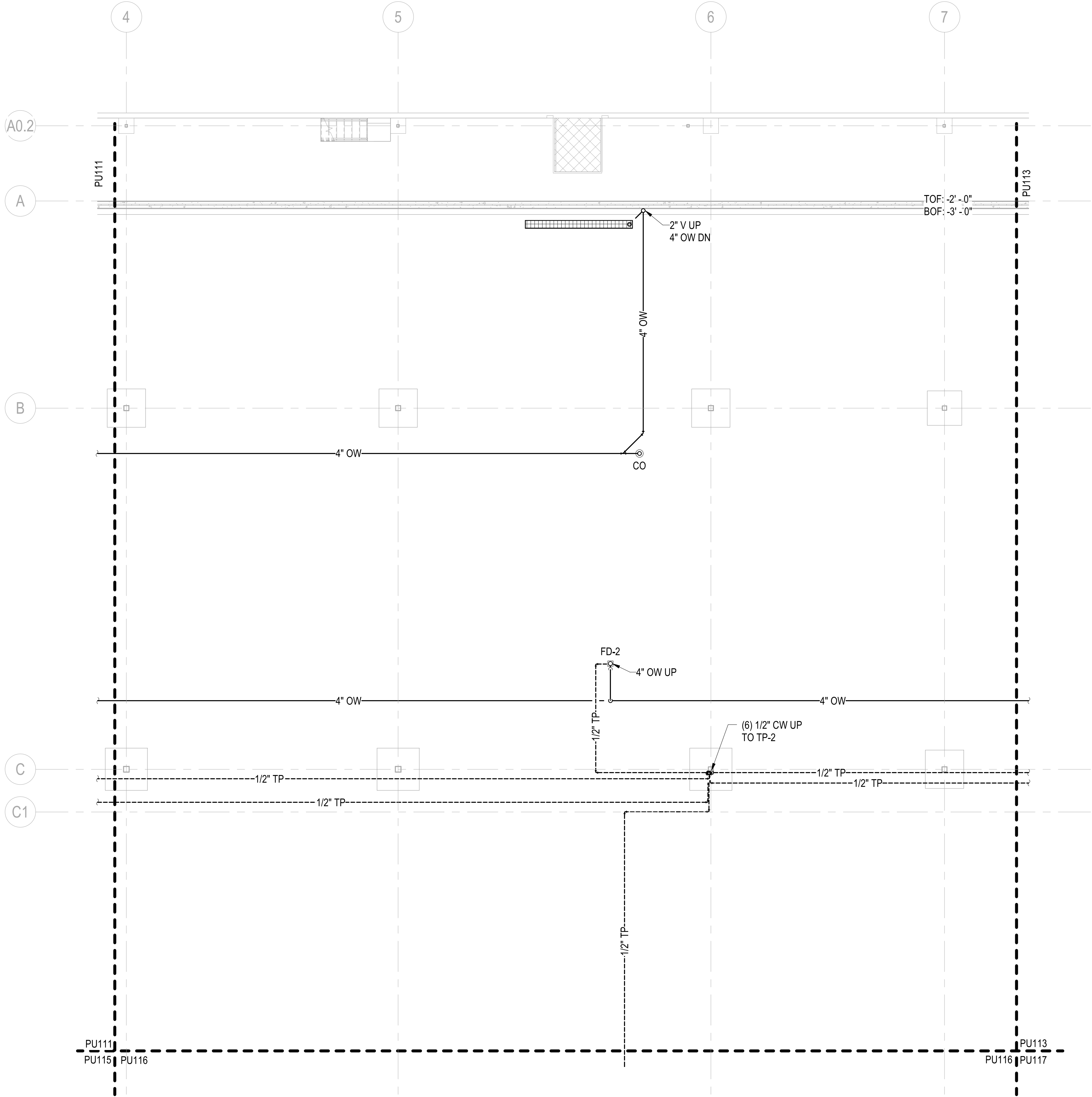
1

2

3

4

5



PLUMBING - UNDERGROUND PLAN - AREA B
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 3 REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 4 ALL UNDERFLOOR SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- 5 UNDERFLOOR VENTS SHALL CONNECT ABOVE CENTERLINE OF WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- 6 UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.
- 8 SEE CIVIL DWGS FOR ACTUAL FINISHED FLOOR ELEVATION. TOP OF SLAB EQUALS FINISHED FLOOR ELEVATION AND MUST SERVE AS THE REFERENCE ELEVATION 0.0'.



PRELIMINARY
Not for construction



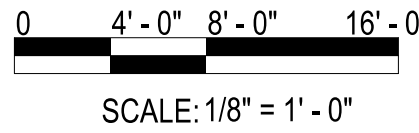
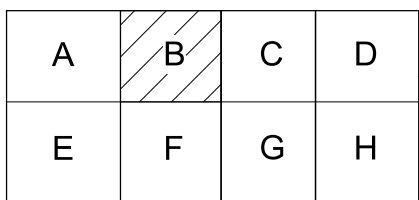
Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH DRW JTP CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

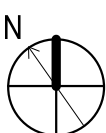
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - UNDERGROUND PLAN - AREA B

SCALE: AS NOTED
EPROJECT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
PU112

KEYPLAN



SCALE: 1/8" = 1' - 0"



1

2

3

4

5

UNCLASSIFIED

UNCLASSIFIED

P1527 PREFINAL SUBMISSION - 08/06/2021

PLOTTED: 8/2/2021 5:08:42 PM

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600.dwg

D

C

B

A

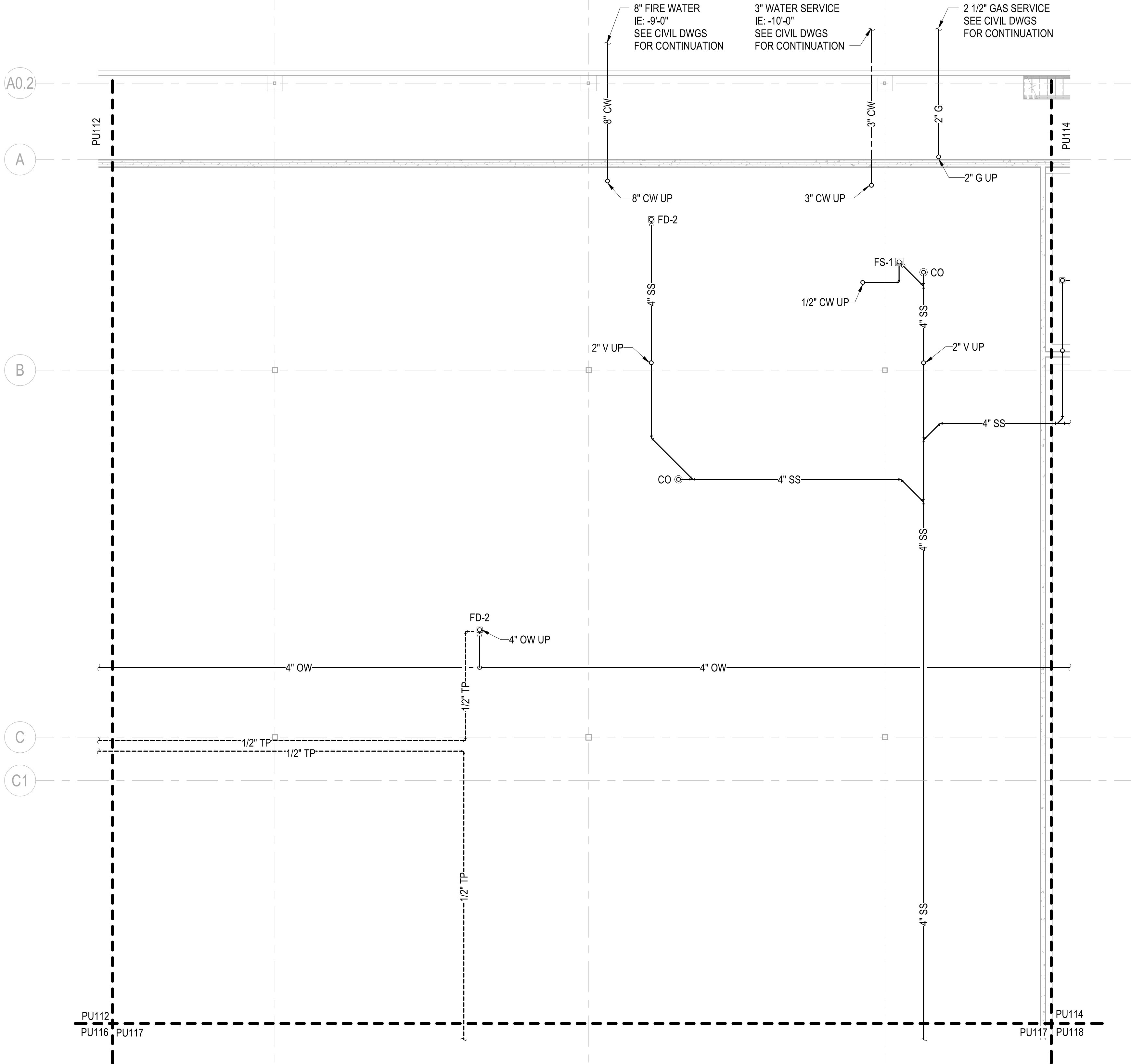
1

2

3

4

UNCLASSIFIED



PLUMBING - UNDERGROUND PLAN - AREA C

SCALE: 1/8" = 1'-0"

GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 3 REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 4 ALL UNDERFLOOR SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- 5 UNDERFLOOR VENTS SHALL CONNECT ABOVE CENTERLINE OF WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- 6 UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.
- 8 SEE CIVIL DWGS FOR ACTUAL FINISHED FLOOR ELEVATION. TOP OF SLAB EQUALS FINISHED FLOOR ELEVATION AND MUST SERVE AS THE REFERENCE ELEVATION 0.0'.



PRELIMINARY
Not for construction



Michael Baker
INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

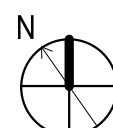
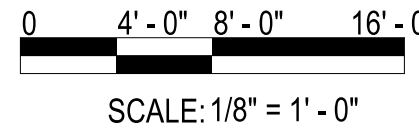
FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH DRW JTP CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - UNDERGROUND PLAN - AREA C

SCALE: AS NOTED
EPROJECT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
PU113

KEYPLAN

A	B	C	D
E	F	G	H



SCALE: 1/8" = 1' - 0"

UNCLASSIFIED

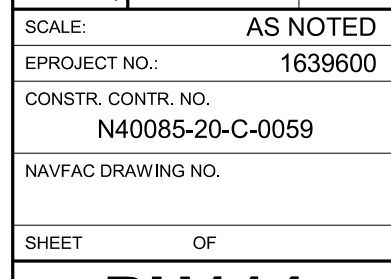
B

A

P1527 PREFINAL SUBMISSION - 08/06/2021



- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 3 REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 4 ALL UNDERFLOOR SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"/1'-0", UNLESS NOTED OTHERWISE.
- 5 UNDERFLOOR VENTS SHALL CONNECT ABOVE CENTERLINE OF WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- 6 UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.
- 8 SEE CIVIL DWGS FOR ACTUAL FINISHED FLOOR ELEVATION. TOP OF SLAB EQUALS FINISHED FLOOR ELEVATION AND MUST SERVE AS THE REFERENCE ELEVATION 0.0'.



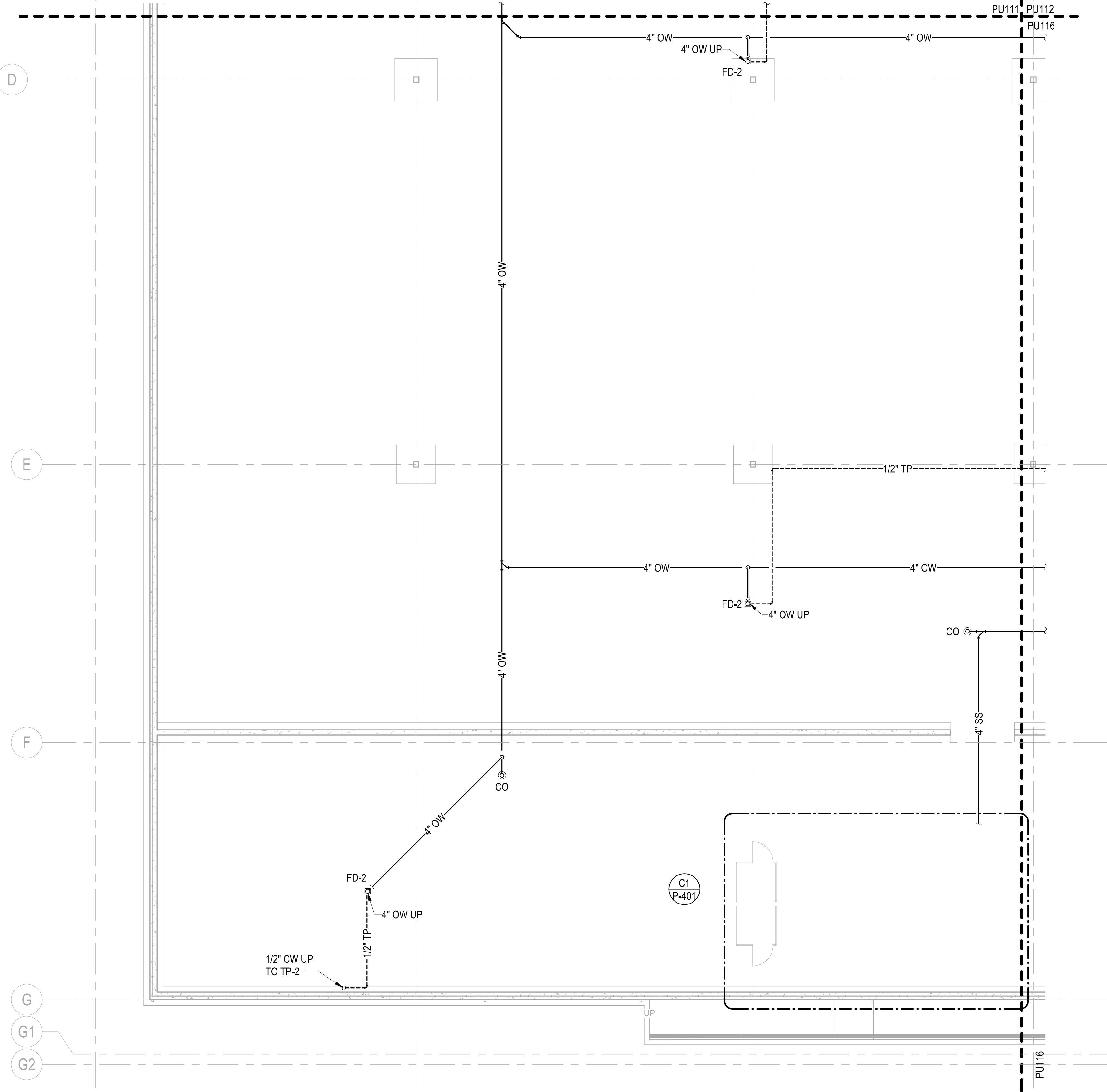
0 4' - 0" 8' - 0" 16' - 0"

SCALE: 1/8" = 1' - 0"



PLOTTED: 8/2/2021 5:08:46 PM

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600.dwg



PLUMBING - UNDERGROUND PLAN - AREA E

SCALE: 1/8" = 1'-0"

GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 3 REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 4 ALL UNDERFLOOR SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"/1'-0", UNLESS NOTED OTHERWISE.
- 5 UNDERFLOOR VENTS SHALL CONNECT ABOVE CENTERLINE OF WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- 6 UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.
- 8 SEE CIVIL DWGS FOR ACTUAL FINISHED FLOOR ELEVATION. TOP OF SLAB EQUALS FINISHED FLOOR ELEVATION AND MUST SERVE AS THE REFERENCE ELEVATION 0.0'.



PRELIMINARY
Not for construction



Michael Baker
INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE DD/MM/YY

DES SKH DRW JTP CHK DWH

PM

BRANCH HEAD

DESIGN DIRECTOR

FIRE PROTECTION

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC

ATLANTIC DESIGN AND CONSTRUCTION

MOB CAMP LEJEUNE

JACKSONVILLE, NC

LOGCOM CSP WAREHOUSE

PLUMBING - UNDERGROUND PLAN - AREA E

P1527 PRELIM SUBMISSION - 08/06/2021

SCALE: AS NOTED

EPROJECT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

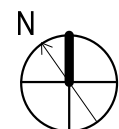
PU115

KEYPLAN

A	B	C	D
E	F	G	H

0 4' - 0" 8' - 0" 16' - 0"

SCALE: 1/8" = 1' - 0"



PLOTTED: 8/2/2021 5:08:49 PM

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600.dwg

D

C

B

A

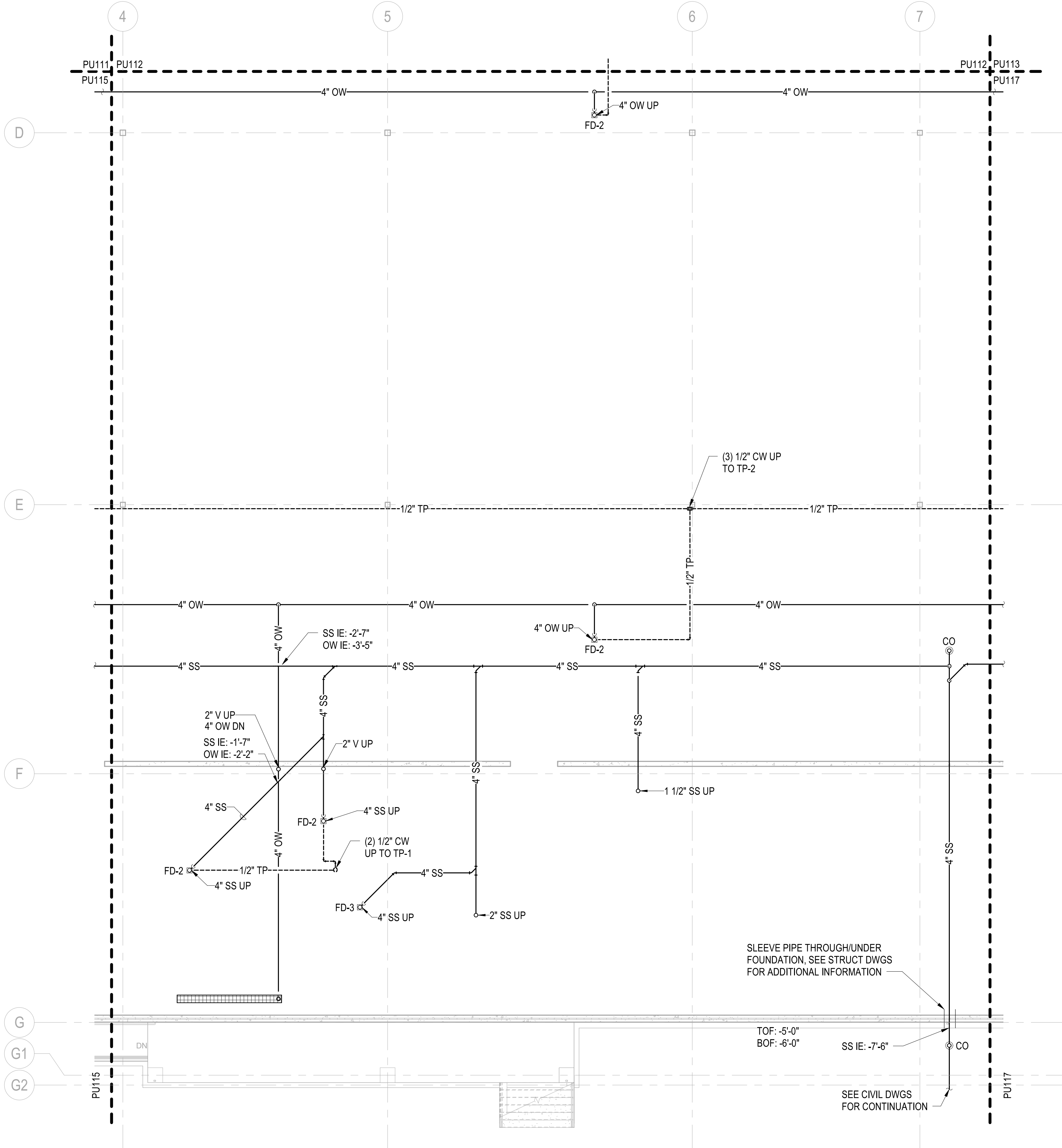
1

2

3

4

5



PLUMBING - UNDERGROUND PLAN - AREA F
SCALE: 1/8" = 1'-0"

UNCLASSIFIED

GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 3 REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 4 ALL UNDERFLOOR SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"/1'-0", UNLESS NOTED OTHERWISE.
- 5 UNDERFLOOR VENTS SHALL CONNECT ABOVE CENTERLINE OF WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- 6 UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.
- 8 SEE CIVIL DWGS FOR ACTUAL FINISHED FLOOR ELEVATION. TOP OF SLAB EQUALS FINISHED FLOOR ELEVATION AND MUST SERVE AS THE REFERENCE ELEVATION 0.0'.



PRELIMINARY
Not for construction



Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

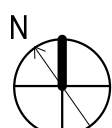
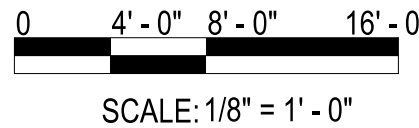
FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH DRW JTP CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - UNDERGROUND PLAN - AREA F

SCALE: AS NOTED
PROJECT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
PU116

KEYPLAN

A	B	C	D
E	F	G	H



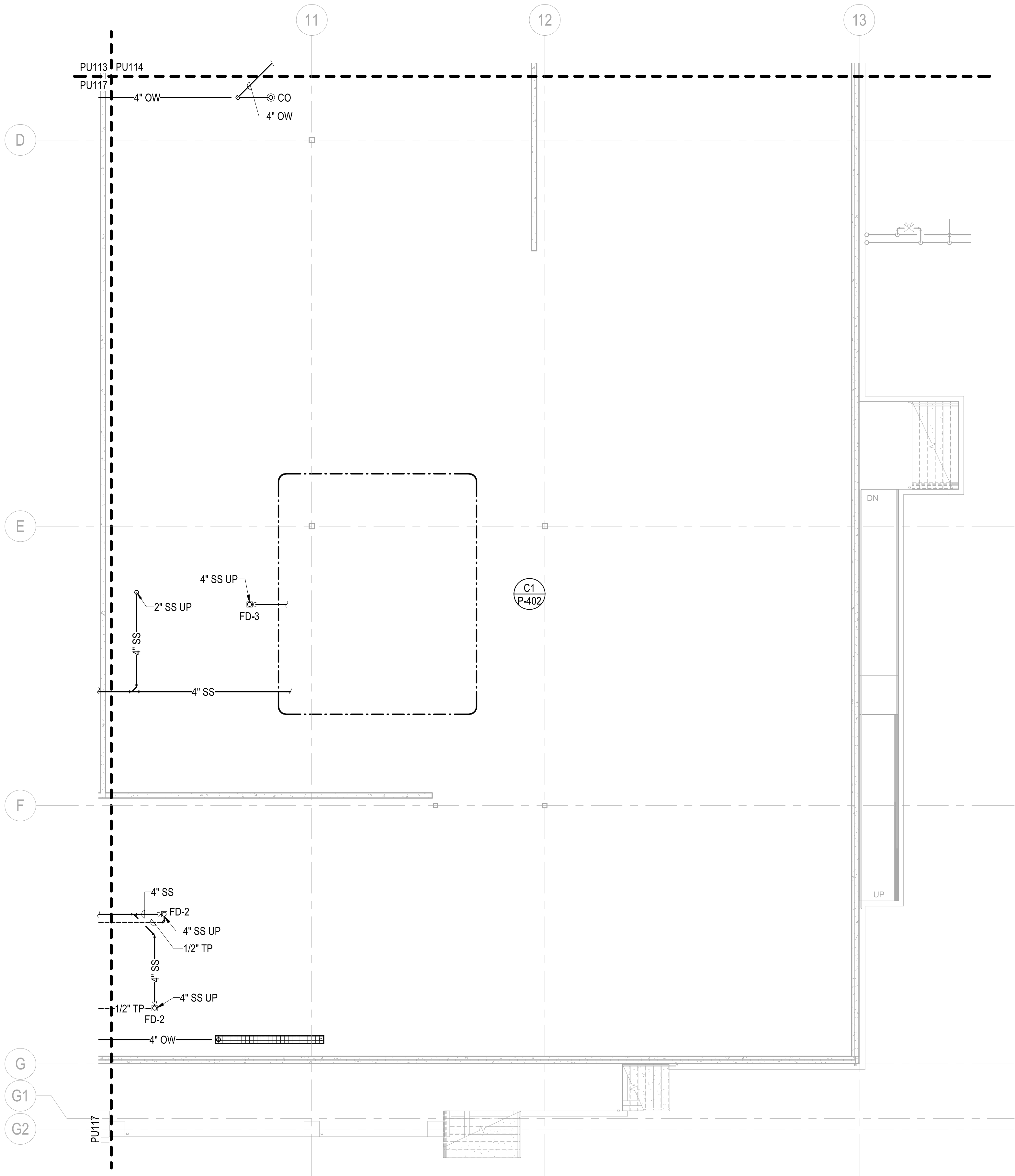
UNCLASSIFIED

P1527 PRELIM SUBMISSION - 08/09/2021

[illegible]

PLOTTED: 8/2/2021 5:08:52 PM

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600.Plot



PLUMBING - UNDERGROUND PLAN - AREA H
 SCALE: 1/8" = 1'-0"

- GENERAL NOTES
- SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
 - REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
 - REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
 - ALL UNDERFLOOR SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"/1'-0", UNLESS NOTED OTHERWISE.
 - UNDERFLOOR VENTS SHALL CONNECT ABOVE CENTERLINE OF WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
 - UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
 - REFER TO P-700 SERIES FOR RISER DIAGRAMS.
 - SEE CIVIL DWGS FOR ACTUAL FINISHED FLOOR ELEVATION. TOP OF SLAB EQUALS FINISHED FLOOR ELEVATION AND MUST SERVE AS THE REFERENCE ELEVATION 0.0'.



PRELIMINARY
 Not for Construction



Michael Baker
 INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

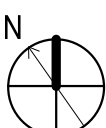
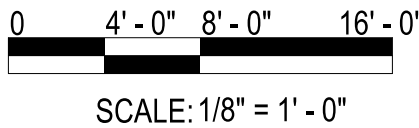
FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE
 SATISFACTORY TO DATE DD/MM/YY
 DES SKH DRW JTP CHK DWH
 PM
 BRANCH HEAD
 DESIGN DIRECTOR
 FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
 NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
 ATLANTIC DESIGN AND CONSTRUCTION
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 LOGCOM CSP WAREHOUSE
 PLUMBING - UNDERGROUND PLAN - AREA H

SCALE: AS NOTED
 EPROJECT NO.: 1639600
 CONSTR. CONTR. NO. N40085-20-C-0059
 NAVFAC DRAWING NO.
 SHEET OF
 PU118

KEYPLAN

A	B	C	D
E	F	G	H



1
2
3
4
5

UNCLASSIFIED

1
2
3
4
5
6
7
8
9
10
11
12
13

D
A0.1
A0.2
A
B
C
C1
D
E
F
G
G2

PLUMBING - 1ST FLOOR PLAN - OVERALL
SCALE: 1" = 20'-0"

PLUMBING - 1ST FLOOR PLAN - OVERALL
SCALE: 1" = 20'-0"

KEYPLAN

0 10' - 0" 20' - 0" 40' - 0"
SCALE: 1" = 20' - 0"

N

1
2
3
4
5

UNCLASSIFIED

1
2
3
4
5

UNCLASSIFIED

GENERAL NOTES

1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
2 ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
3 VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
4 REFER TO P-700 SERIES FOR RISER DIAGRAMS.

PRELIMINARY
NOT FOR CONSTRUCTION

Michael Baker
INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH DRW JTP CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - 1ST FLOOR PLAN - OVERALL

SCALE: AS NOTED
EPROJECT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
P-110

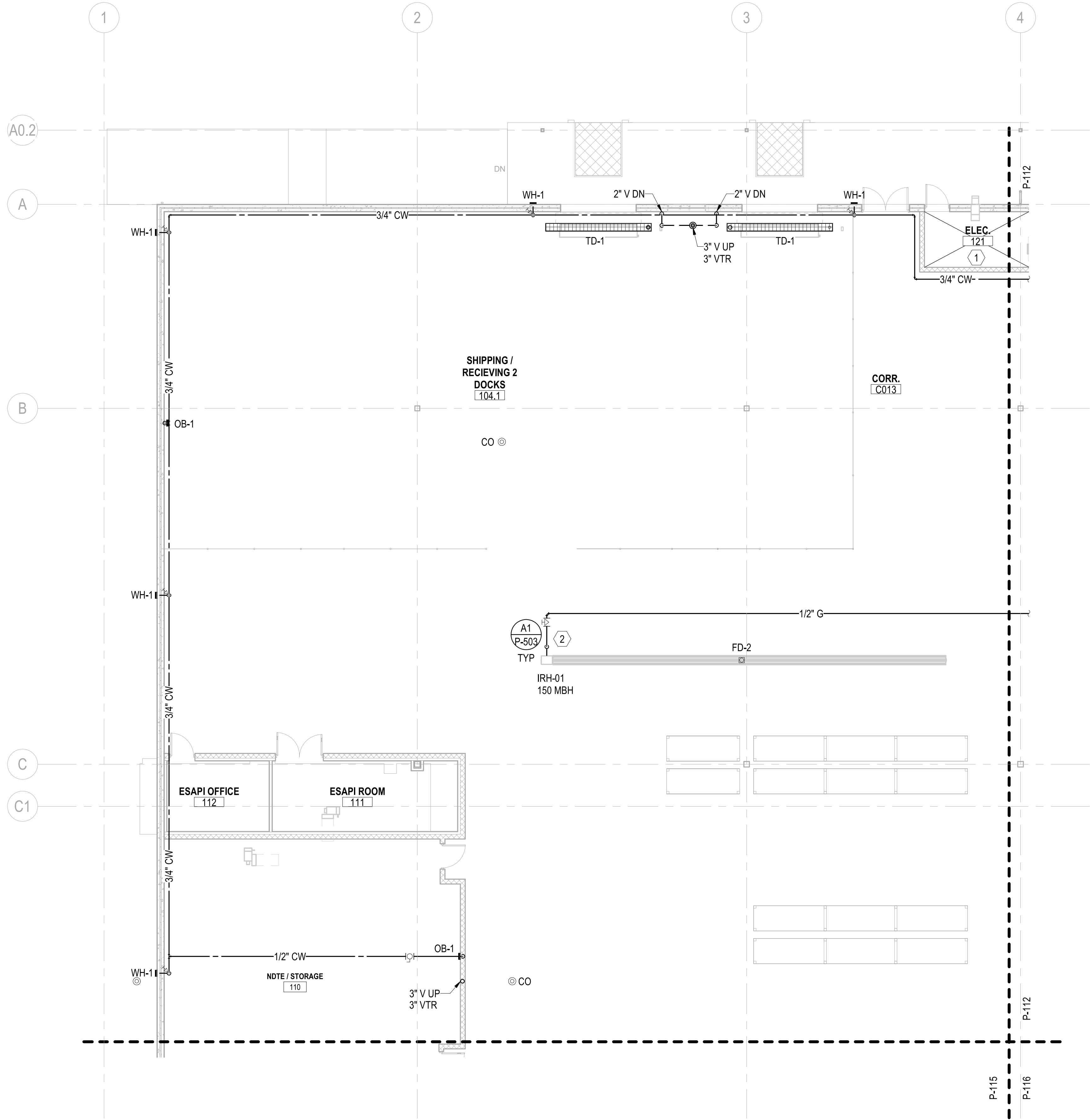
P1527 PREFINAL SUBMISSION - 08/06/2021

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-110
PLOTTED: 8/2/2021 5:07:44 PM

PLOTTED: 8/2/2021 5:07:46 PM

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-111

1
2
3
4
5
A
B
C
D



PLUMBING - 1ST FLOOR PLAN - AREA A

SCALE: 1/8" = 1'-0"

UNCLASSIFIED

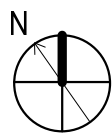
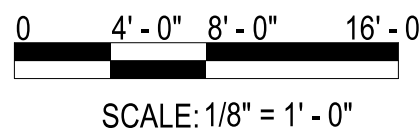
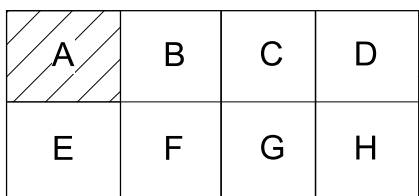
GENERAL NOTES

- SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- REFER TO P-700 SERIES FOR RISER DIAGRAMS.

KEYNOTES

- THERE MUST NOT BE ANY PIPING THAT DOES NOT SERVE THIS SPACE INSTALLED ABOVE OR WITHIN THIS SPACE.
- CONNECT TO EQUIPMENT PROVIDED BY M.C.

KEYPLAN



APPR	DATE	DESCRIPTION	SYM
PRELIMINARY Not for construction			
Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE DD/MM/YY			
DES SKH	DRW JTP	CHK DWH	PM
BRANCH HEAD			
DESIGN DIRECTOR			
FIRE PROTECTION			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC DESIGN AND CONSTRUCTION NAVFAC DRAWING NO.			
NAVFAC DRAWING NO.			
SHEET OF			
P-111			

NAVFAC DRAWING NO. 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 1639600
SHEET OF

LOGCOM CSP WAREHOUSE
PLUMBING - 1ST FLOOR PLAN - AREA A

P1527 PRELIM SUBMISSION - 08/09/2021

UNCLASSIFIED

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-14
PLOTTED: 8/2/2021 5:07:49 PM

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - 1ST FLOOR PLAN - AREA B
P1527 PREFINAL SUBMISSION - 08/06/2021

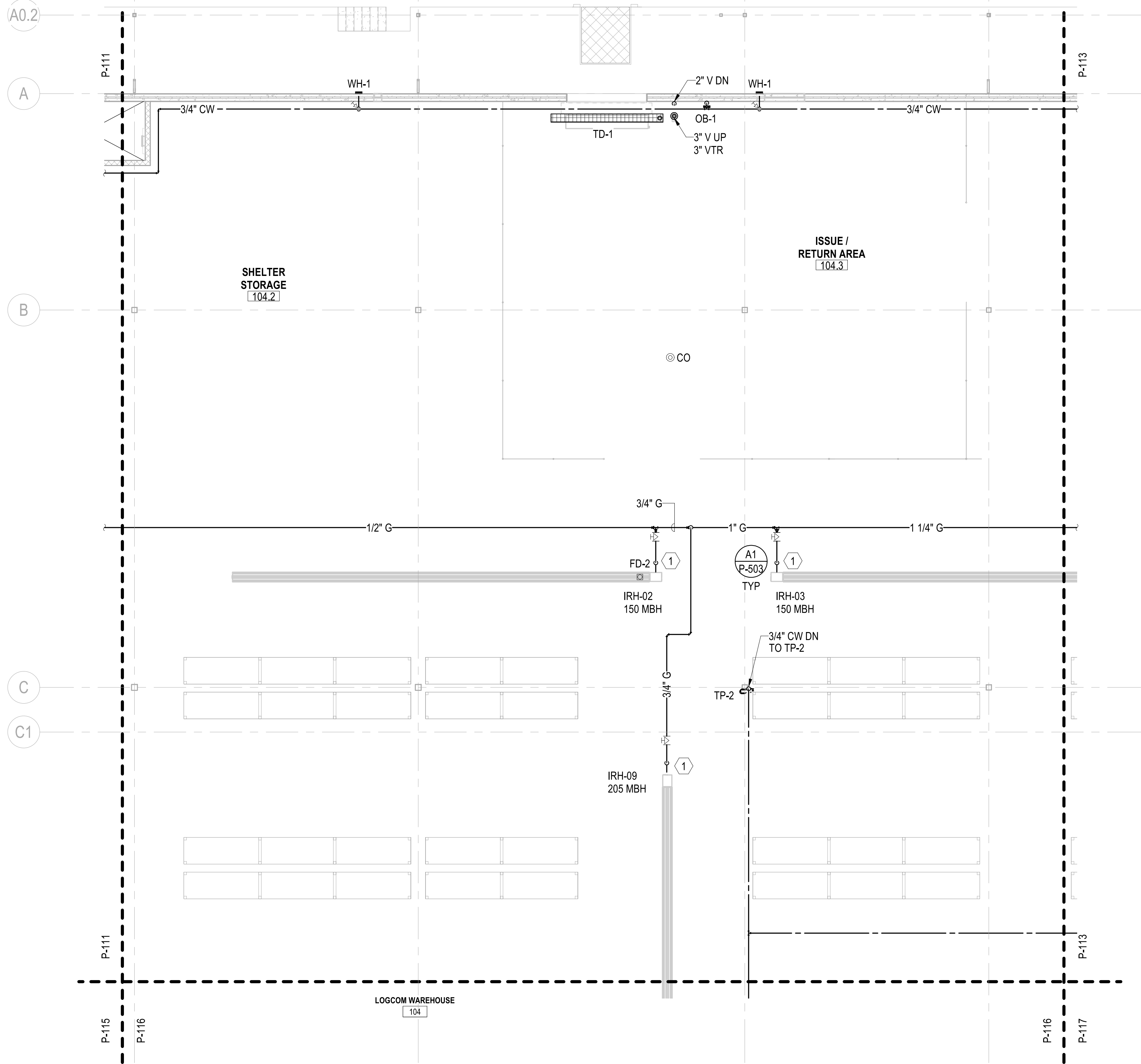
D

C

B

A

PLUMBING - 1ST FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"



UNCLASSIFIED

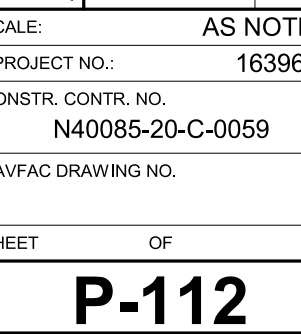
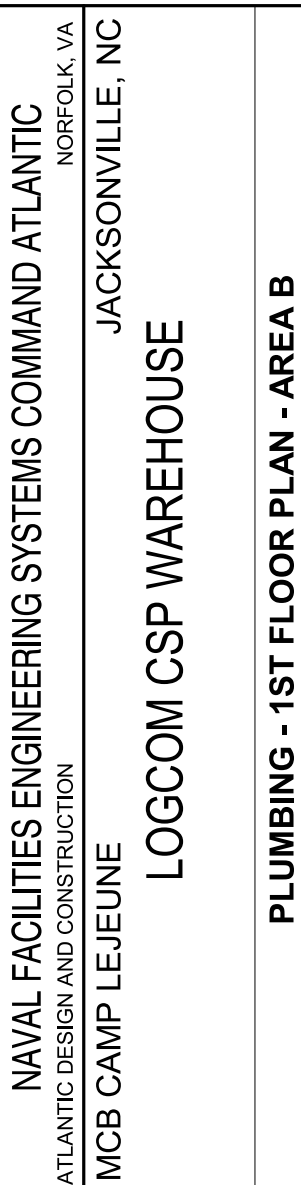
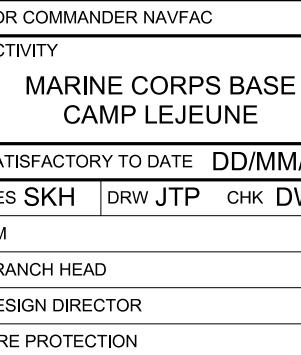
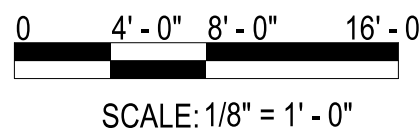
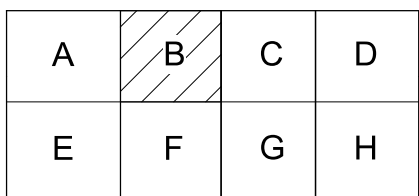
GENERAL NOTES

- SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- REFER TO P-700 SERIES FOR RISER DIAGRAMS.

KEYNOTES

- CONNECT TO EQUIPMENT PROVIDED BY M.C.

KEYPLAN



P1527 PREFINAL SUBMISSION - 08/06/2021

UNCLASSIFIED

P1527 PREFINAL SUBMISSION - 08/06/2021

PLOTTED: 8/2/2021 5:07:51 PM

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-1

D

C

B

A

1

8

2

9

3

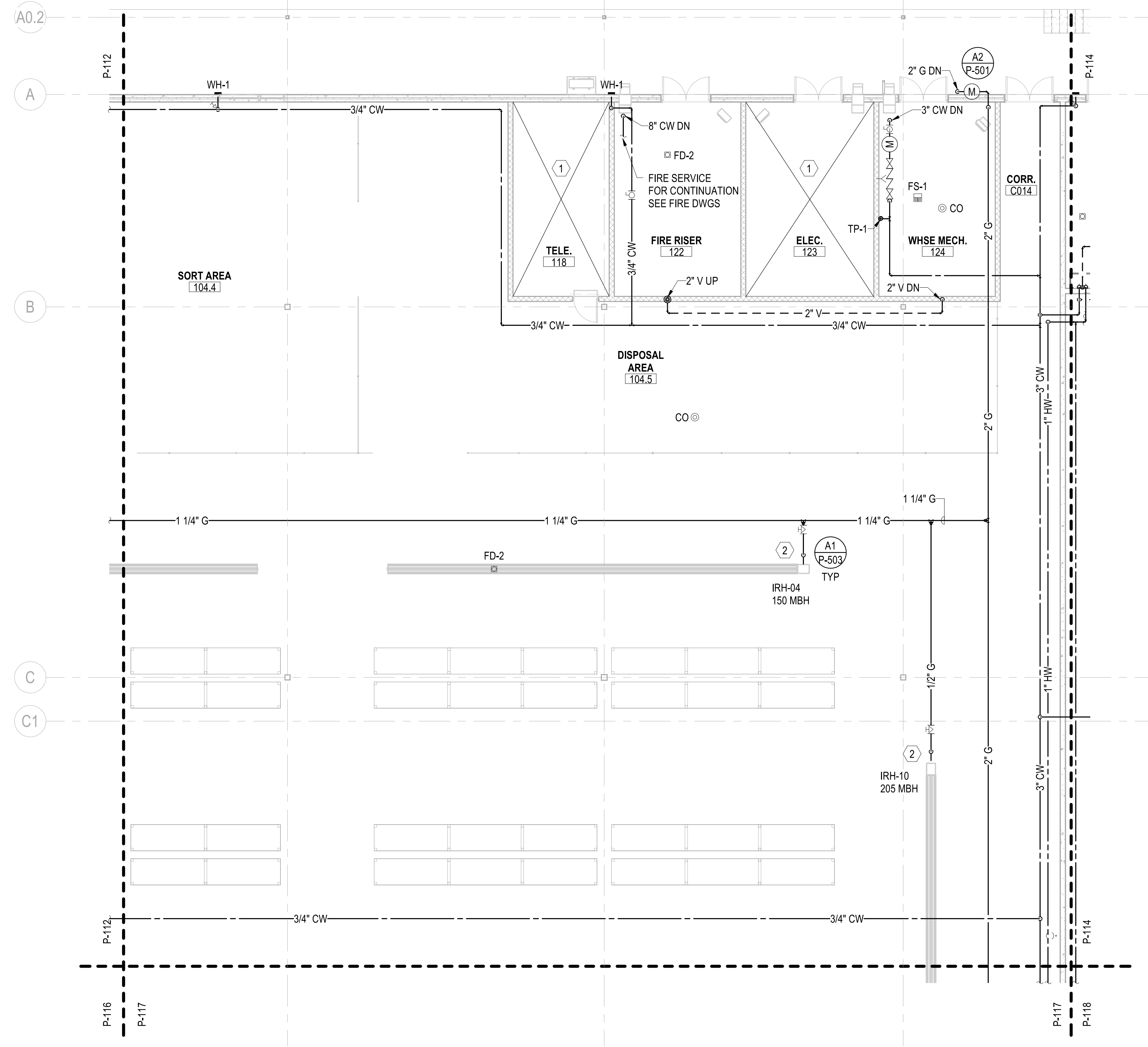
10

4

5

UNCLASSIFIED

UNCLASSIFIED



PLUMBING - 1ST FLOOR PLAN - AREA C

SCALE: 1/8" = 1'-0"

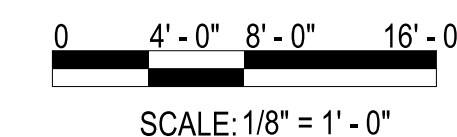
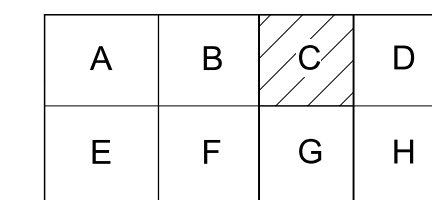
GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- 3 VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- 4 REFER TO P-700 SERIES FOR RISER DIAGRAMS.

KEYNOTES

- 1 THERE MUST NOT BE ANY PIPING THAT DOES NOT SERVE THIS SPACE INSTALLED ABOVE OR WITHIN THIS SPACE.
- 2 CONNECT TO EQUIPMENT PROVIDED BY M.C.

KEYPLAN



PRELIMINARY
NOT FOR CONSTRUCTION



Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH DRW JTP CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - 1ST FLOOR PLAN - AREA C

SCALE: AS NOTED
EPROJECT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
P-113

P1527 PREFINAL SUBMISSION - 08/06/2021

UNCLASSIFIED

D

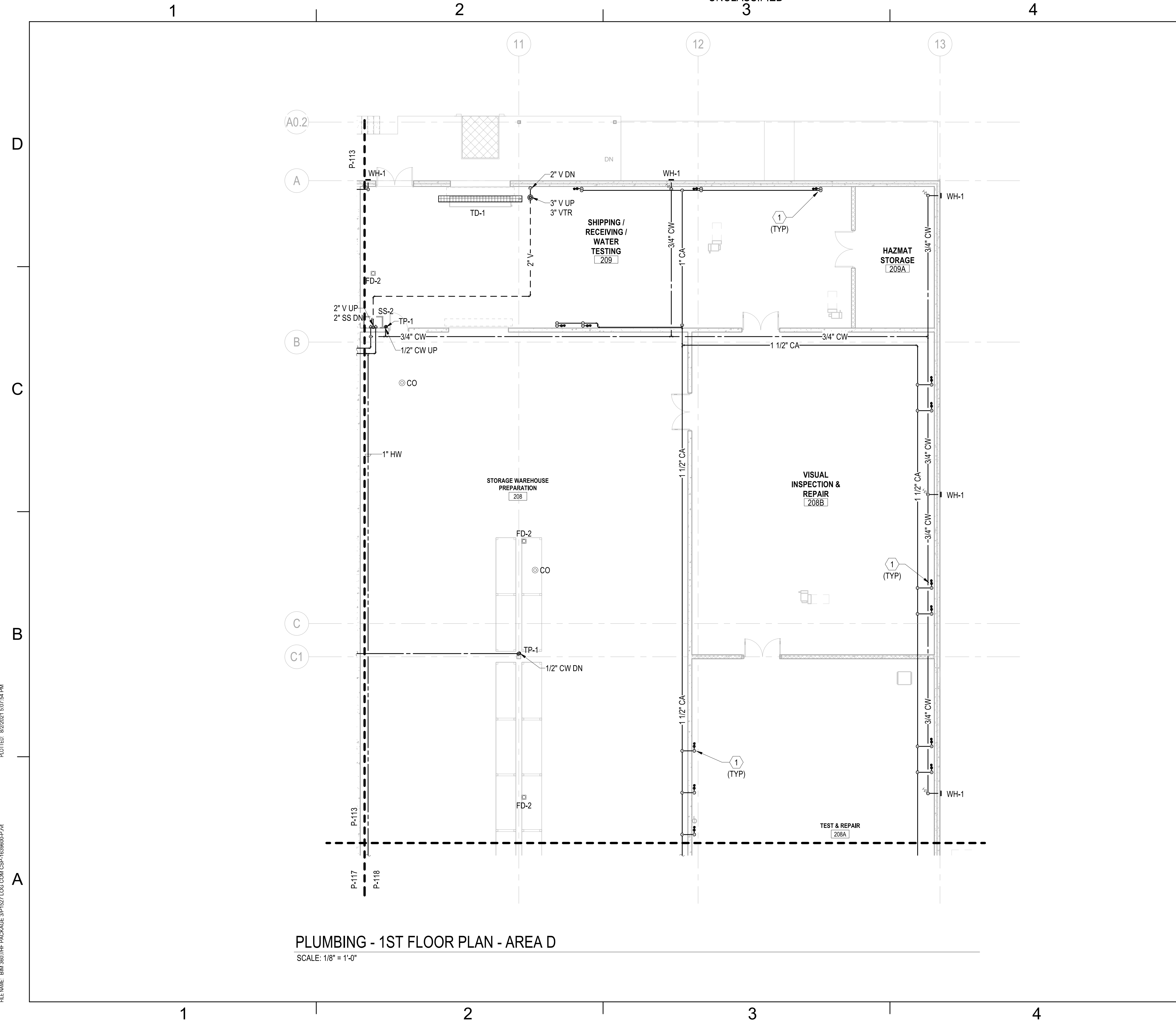
C

B

A

PLOTTED: 8/2/2021 5:07:54 PM

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-14



PLUMBING - 1ST FLOOR PLAN - AREA D

SCALE: 1/8" = 1'-0"

1
2
3
4
5

GENERAL NOTES

1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
2 ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"/1'-0", UNLESS NOTED OTHERWISE.
3 VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
4 REFER TO P-700 SERIES FOR RISER DIAGRAMS.

1
2
3
4
5

KEYNOTES

1 1/2" CA DROP ALONG WALL. SEE DETAIL A3/P-502 FOR ADDITIONAL INFORMATION.

1
2
3
4
5

KEYPLAN

0 4' - 0" 8' - 0" 16' - 0"

SCALE: 1/8" = 1' - 0"

N

1
2
3
4
5

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - 1ST FLOOR PLAN - AREA D

1
2
3
4
5

SCALE: AS NOTED
EPROJECT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

1
2
3
4
5

P-114

1
2
3
4
5

UNCLASSIFIED

1
2
3
4
5

UNCLASSIFIED

1
2
3
4
5

UNCLASSIFIED

1
2
3
4
5

UNCLASSIFIED

1
2
3
4
5

UNCLASSIFIED

P1527 PREFINAL SUBMISSION - 08/06/2021



SCALE: 1/8" = 1'-0"

1 CONNECT TO EQUIPMENT PROVIDED BY M.C.



PRELIMINARY
NOT FOR CONSTRUCTION



Michael Baker
INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108 A/E INFO
APPROVED

FOR COMMANDER NAVFAC

MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE DD/MM/YY

DES SKH	DRW JTP	CHK DWH
PM		

BRANCH HEAD
DESIGN DIRECTOR

DESIGN DIRECTOR
FIRE PROTECTION

AND		
, VA		
NC		

COMM
C
R
FOLK
LE, I

EMS C
ANTH
NOF
CIVIL

SON

F

ENGINEER
JANUARY
SE
AREA

S ENCO
COM
SNC
- AF

ILITIE
MS C
EHC
.AN

ALL FAC
STEIN
ARE
R PL

NAVA
WA
COOF

RING	SP	FLO
------	----	-----

1ST	AC	IEEP
-----	----	------

GIN	CON	IG -
-----	-----	------

SEN
ACTION
GC
IBIN

UNITIES
INSTRU
LINE
LO
LUM

PI

IF THE
LFA
IN ANI
PLE

MENT OF
AVANCE
DESIGN
AMF

ARTMENT
N
ANTIC
B C,

DEPA
ATL
MC

SCALE:	AS NOTED
PROJECT NO.:	1630600

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

SHEET OF

SHEET OF

D 116

P-116

UNCLASSIFIED

B

6/2021

P1527 PREFINAL SUBMISSION - 08/06/2021

P-116

PLOTTED: 8/2/2021 5:07:59 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1527 LOG COM CSP-1639600-P.rvt

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-14
PLOTTED: 8/2/2021 5:08:02 PM

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - 1ST FLOOR PLAN - AREA G
P1527 PRELIM SUBMISSION - 08/02/2021

D

C

B

A

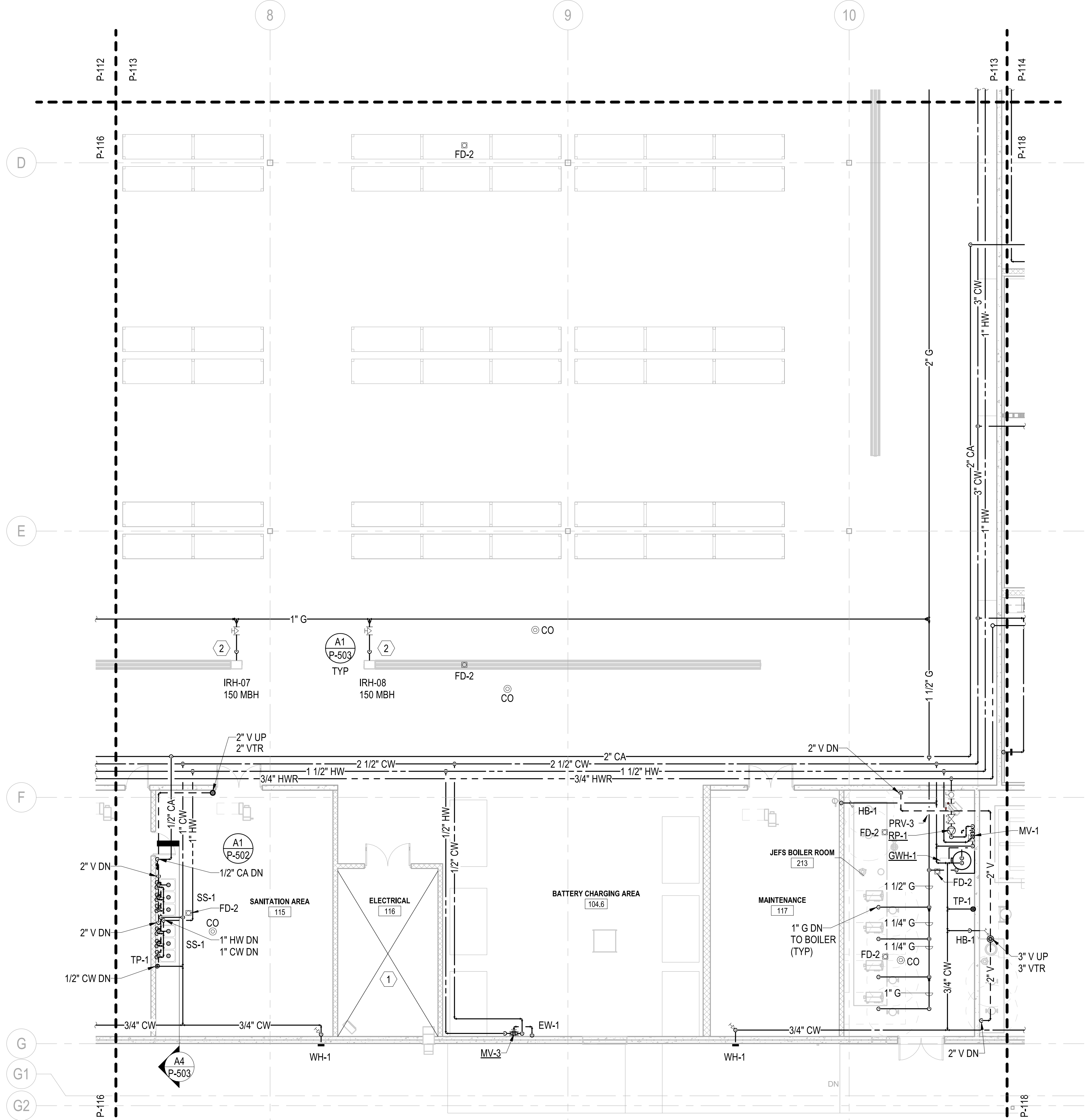
1

2

3

4

5



PLUMBING - 1ST FLOOR PLAN - AREA G

SCALE: 1/8" = 1'-0"

1

2

3

4

5

UNCLASSIFIED

GENERAL NOTES

- SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- REFER TO P-700 SERIES FOR RISER DIAGRAMS.

KEYNOTES

- THERE MUST NOT BE ANY PIPING THAT DOES NOT SERVE THIS SPACE INSTALLED ABOVE OR WITHIN THIS SPACE.
- CONNECT TO EQUIPMENT PROVIDED BY M.C.



PRELIMINARY
NOT FOR CONSTRUCTION



Michael Baker
INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE DD/MM/YY

DES SKH DRW JTP CHK DWH

PM

BRANCH HEAD

DESIGN DIRECTOR

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

ATLANTIC DESIGN AND CONSTRUCTION

MCB CAMP LEJEUNE

JACKSONVILLE, NC

LOGCOM CSP WAREHOUSE

PLUMBING - 1ST FLOOR PLAN - AREA G

P1527 PRELIM SUBMISSION - 08/02/2021

SCALE: AS NOTED

EPROJCT NO.: 1639600

CONSTR. CONTR. NO.

N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

P-117

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-14
PLOTTED: 8/2/2021 5:08:05 PM

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - 1ST FLOOR PLAN - AREA H

D

C

B

A

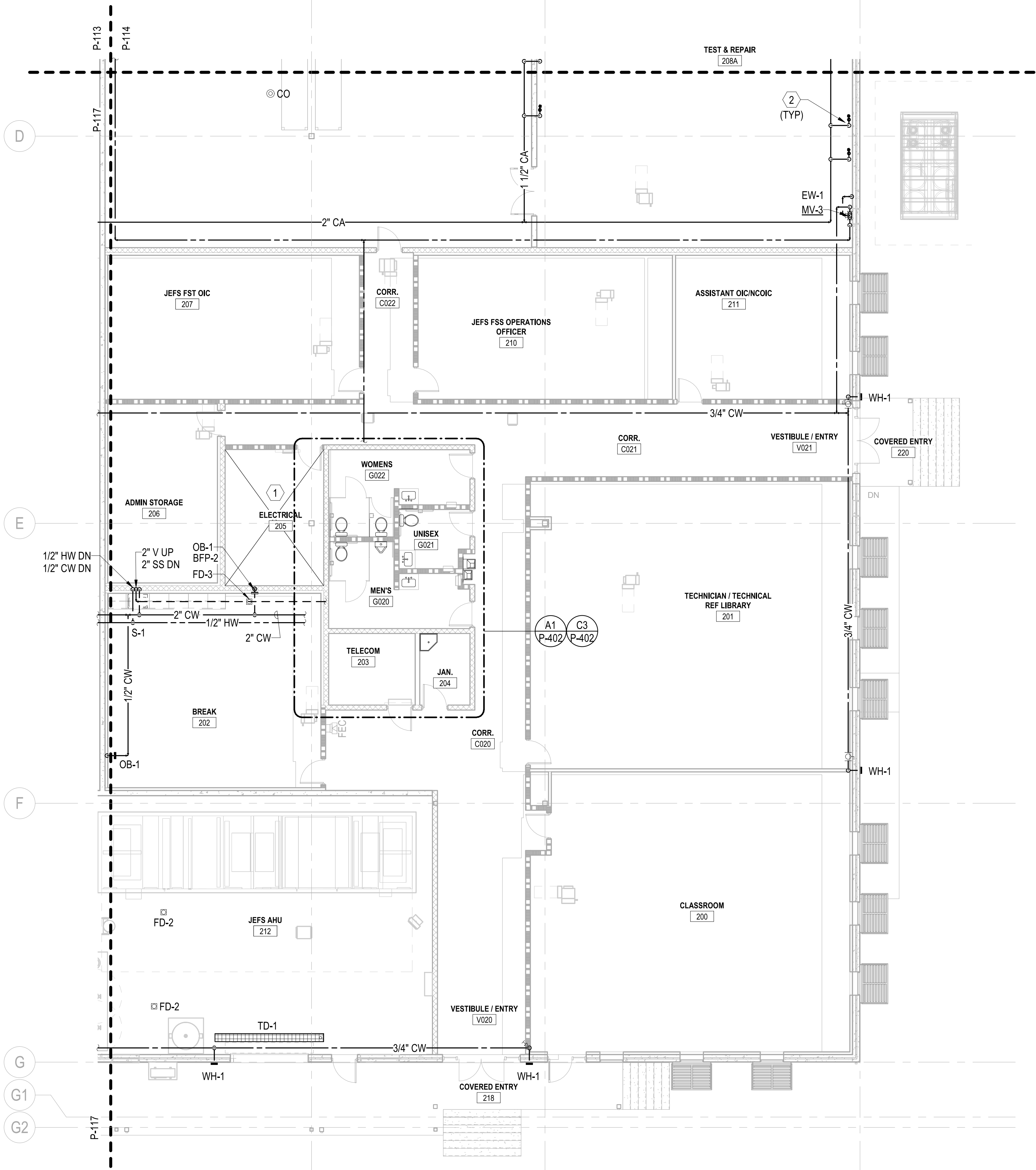
1

2

3

4

5



PLUMBING - 1ST FLOOR PLAN - AREA H
SCALE: 1/8" = 1'-0"

1

2

3

4

5

UNCLASSIFIED

GENERAL NOTES

- SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- REFER TO P-700 SERIES FOR RISER DIAGRAMS.

KEYNOTES

- THERE MUST NOT BE ANY PIPING THAT DOES NOT SERVE THIS SPACE INSTALLED ABOVE OR WITHIN THIS SPACE.
- 1/2" CA DROP ALONG WALL. SEE DETAIL A3/P-502 FOR ADDITIONAL INFORMATION.



PRELIMINARY
Not for construction



Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH DRW JTP CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - 1ST FLOOR PLAN - AREA H

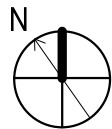
SCALE: AS NOTED
EPROJECT NO.: 1639600
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.:
SHEET OF

P-118

KEYPLAN

A	B	C	D
E	F	G	H

0 4' - 0" 8' - 0" 16' - 0"
SCALE: 1/8" = 1' - 0"



UNCLASSIFIED

P1527 PREFINAL SUBMISSION - 08/06/2021

PLOTTED: 8/2/2021 5:08:07 PM

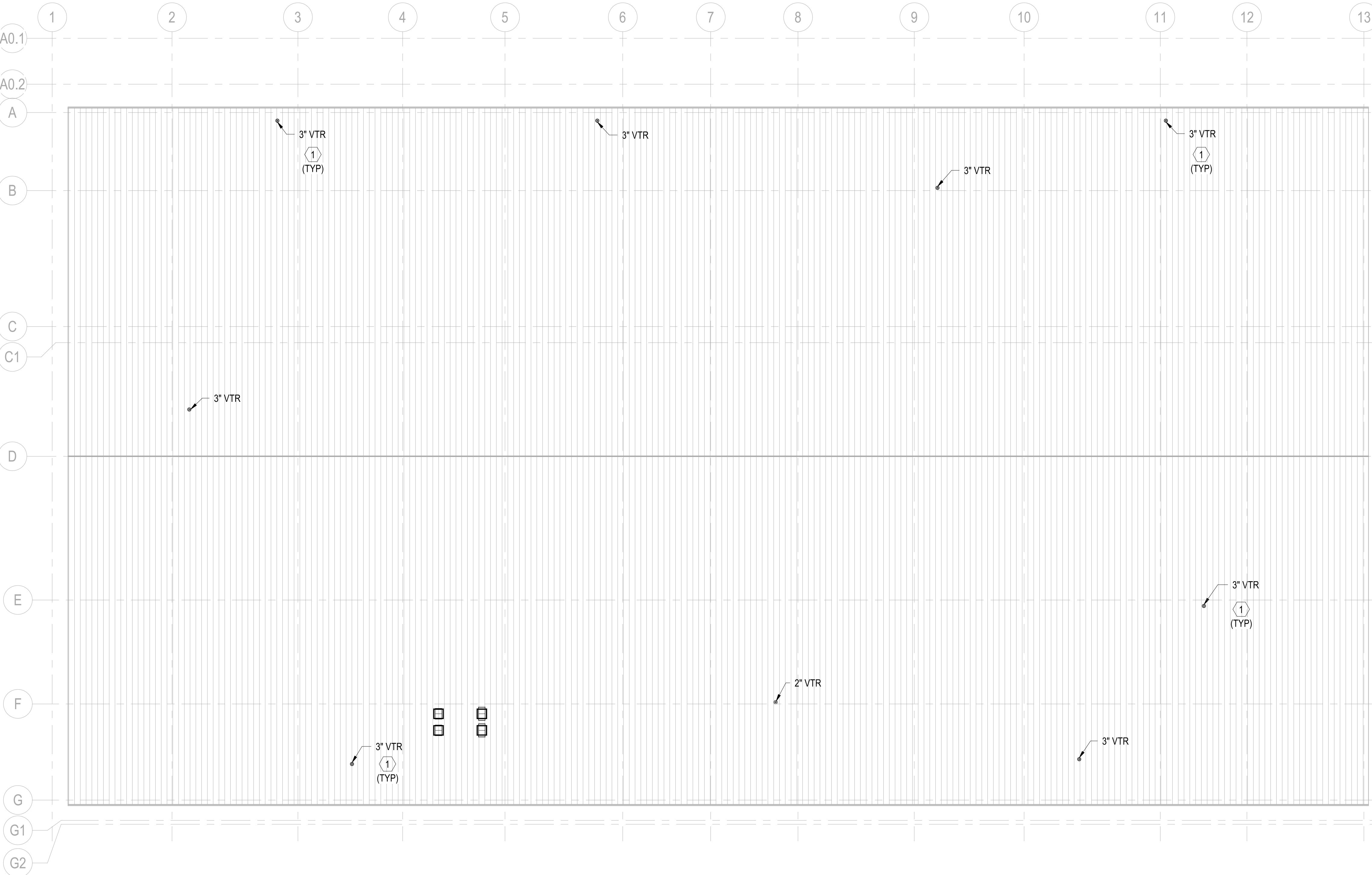
FILE NAME: BIM 360://HF PACKAGE 3/P1527 LOG COM CSP-1639600.dwg

D

C

B

A



PLUMBING - ROOF PLAN
 SCALE: 1" = 20'-0"

GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 REFER TO P-700 SERIES FOR RISER DIAGRAMS.

KEYNOTES

- 1 COORDINATE INSTALLATION WITH STANDING SEAM ROOFING CONTRACTOR.



PRELIMINARY
 Not for construction

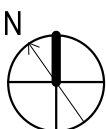
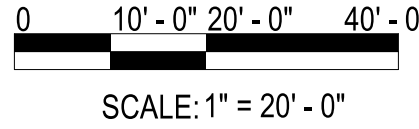
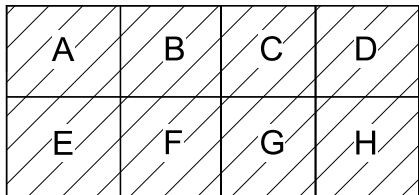


Michael Baker
 INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE
 SATISFACTORY TO DATE DD/MM/YY
 DES SKH DRW JTP CHK DWH
 PM
 BRANCH HEAD
 DESIGN DIRECTOR
 FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
 ATLANTIC DESIGN AND CONSTRUCTION
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 LOGCOM CSP WAREHOUSE
 PLUMBING - ROOF PLAN

SCALE: AS NOTED
 EPROJECT NO.: 1639600
 CONSTR. CONTR. NO. N40085-20-C-0059
 NAVFAC DRAWING NO.
 SHEET OF
 P-151



UNCLASSIFIED

UNCLASSIFIED

P1527 PREFINAL SUBMISSION - 08/06/2021

FILE NAME: BIM 360/HF PACKAGE 3P1527 LOG COM CSP-1639600-P-01
PLOTTED: 8/2/2021 5:08:11 PM

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC

A

B

C

D

1

2

3

4

5

UNCLASSIFIED

3

4

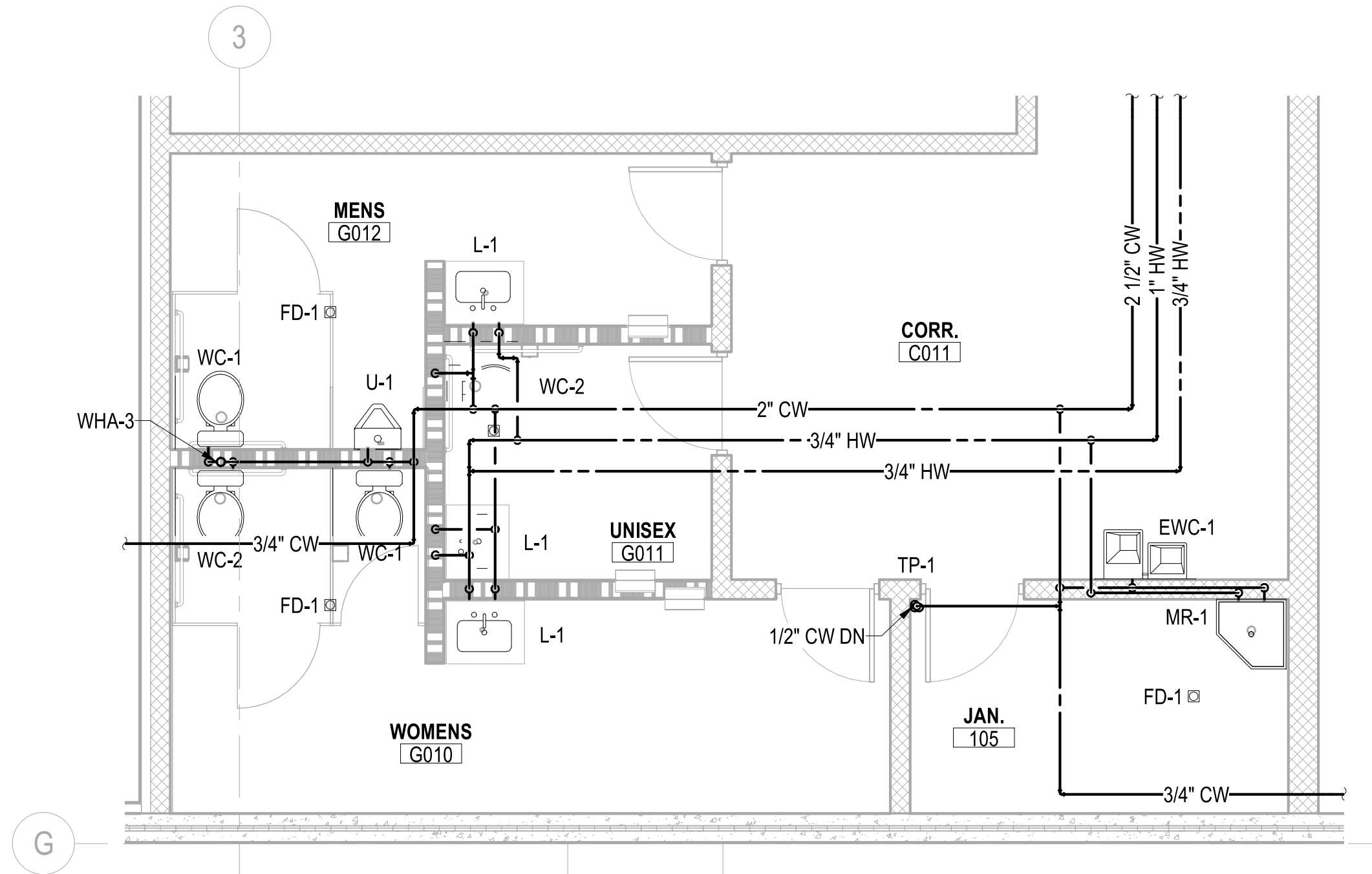
5

ENLARGED G010/G012 - WATER PLAN

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

P-110

A3

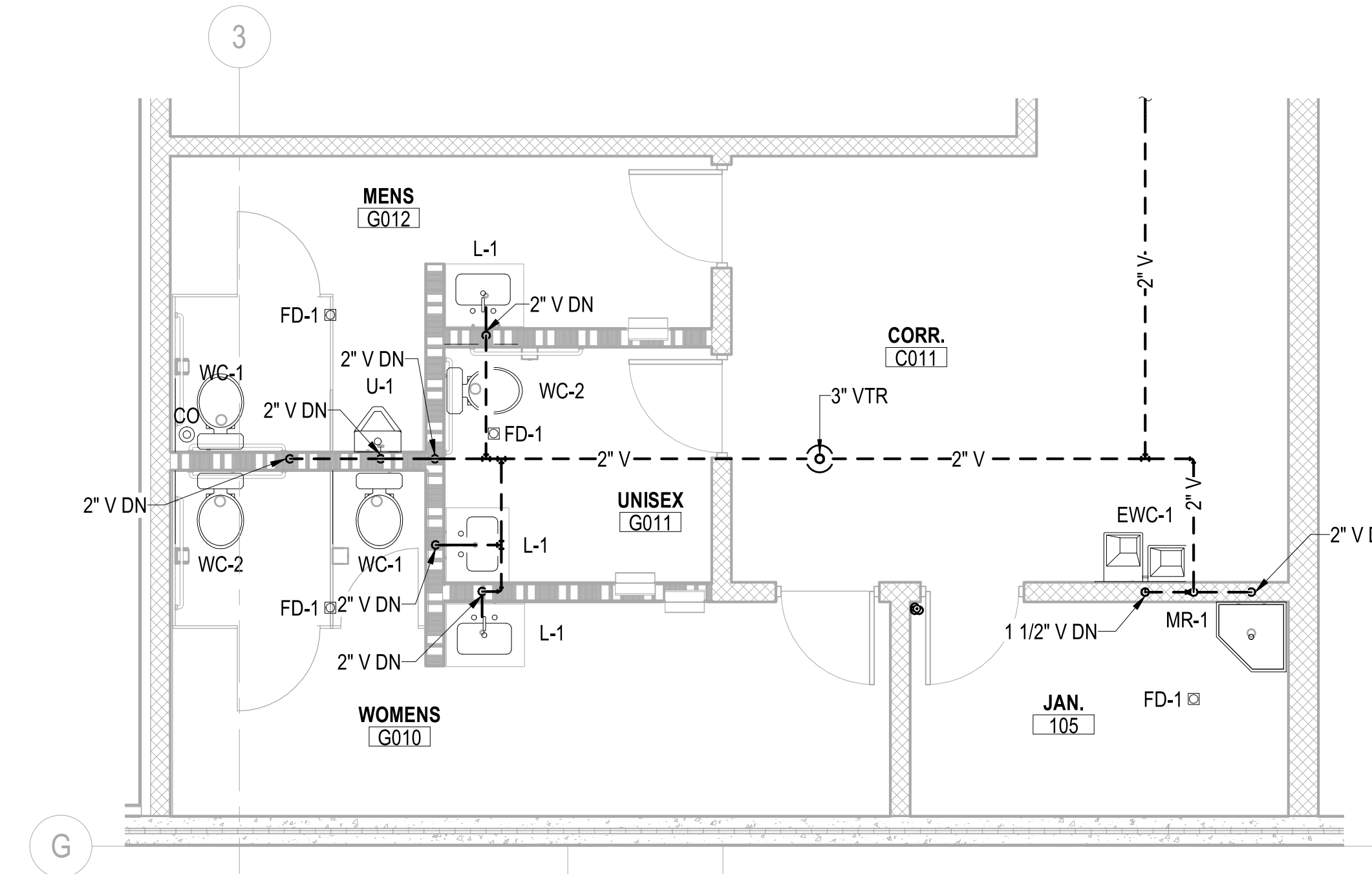


ENLARGED G010/G012 - SANITARY & VENT PLAN

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

P-110

C3

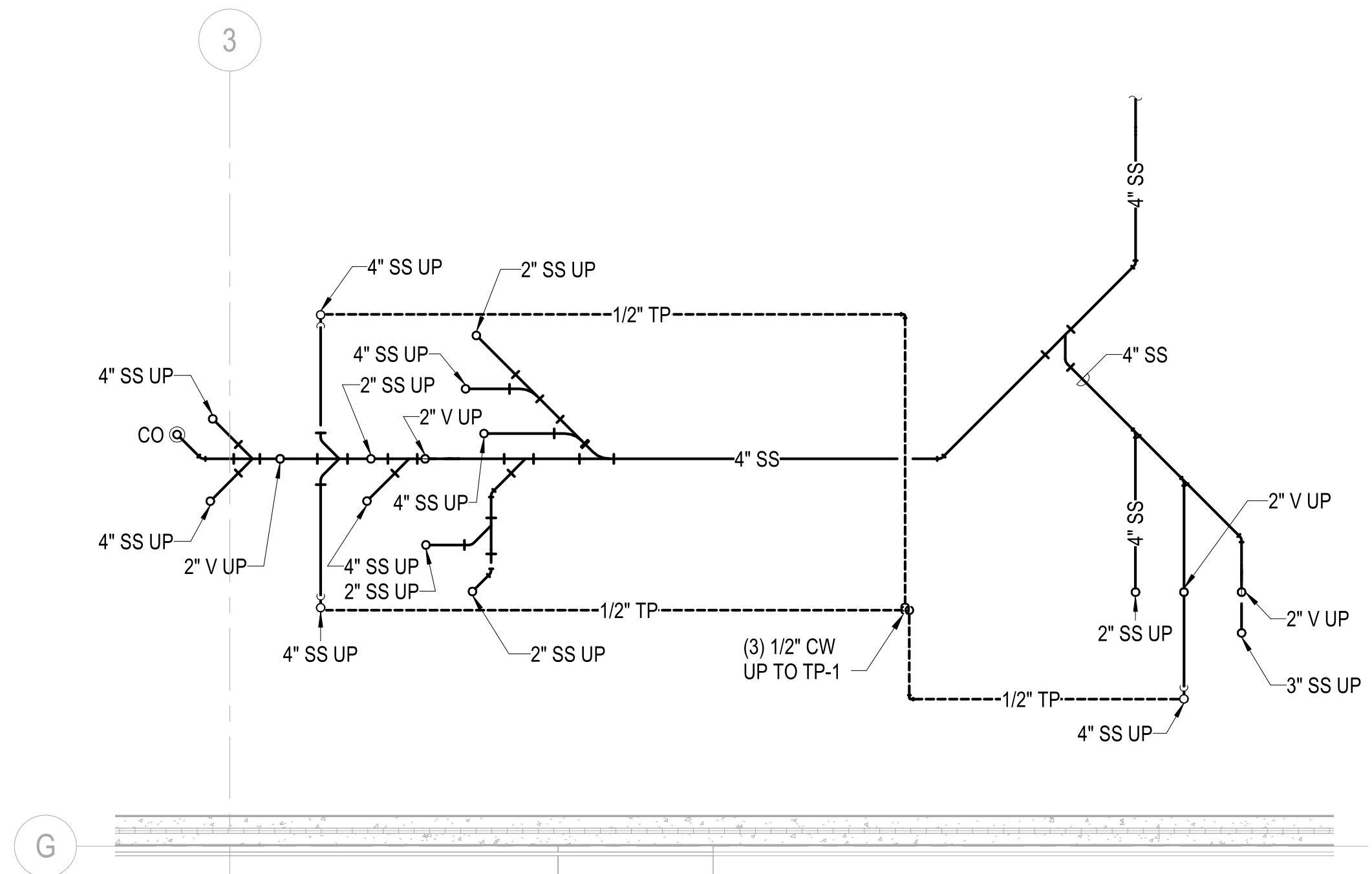


ENLARGED G010/G012 - UNDERGROUND PLAN

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

PU110

C1



GENERAL NOTES

- SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTERS AND GRADE BEAMS.
- REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTERS AND GRADE BEAMS.
- ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"/1'-0", UNLESS NOTED OTHERWISE.
- VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- REFER TO P-700 SERIES FOR RISER DIAGRAMS.



PRELIMINARY
Not for construction



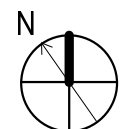
Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH | DRW JTP | CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - ENLARGED PLANS

SCALE: AS NOTED
EPROJCT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
P-401

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"



P-1527 PRELIM SUBMISSION - 08/06/2021

UNCLASSIFIED

D

C

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-01
PLOTTED: 8/2/2021 5:08:15 PM

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - ENLARGED PLANS
P-402

A

B

C

D

ENLARGED G020/G021/G022 - UNDERGROUND PLAN

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

PU110

C1

ENLARGED G020/G021/G022 - SANITARY & VENT PLANS

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

P-110

C3

ENLARGED G020/G021/G022 - WATER PLAN

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

P-110

A1

GENERAL NOTES

- SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTERS AND GRADE BEAMS.
- REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTERS AND GRADE BEAMS.
- ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- REFER TO P-700 SERIES FOR RISER DIAGRAMS.



100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO
APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE DD/MM/YY

DES SKH DRW JTP CHK DWH

PM

BRANCH HEAD

DESIGN DIRECTOR

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC

ATLANTIC DESIGN AND CONSTRUCTION

MCB CAMP LEJEUNE

JACKSONVILLE, NC

LOGCOM CSP WAREHOUSE

PLUMBING - ENLARGED PLANS

SCALE: AS NOTED

EPROJCT NO.: 1639600

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

P-402

P-1527 PRELIM SUBMISSION - 08/06/2021

UNCLASSIFIED

B

C

D

APPR

DATE

SYM

DESCRIPTION

APPR

DATE

SYM

DESCRIPTION

APPR

DATE

SYM

DESCRIPTION

APPR

DATE

SYM

DESCRIPTION

APPR

DATE

SYM

DESCRIPTION

APPR

DATE

SYM

DESCRIPTION

C1

C2

C4

(A1

A2

A4

01527 PREFINAL SUBMISSION - 08/06/2021

PLOTTED: 8/2/2021 5:08:16 PM

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG.COM CSP-1639600.dwt

D

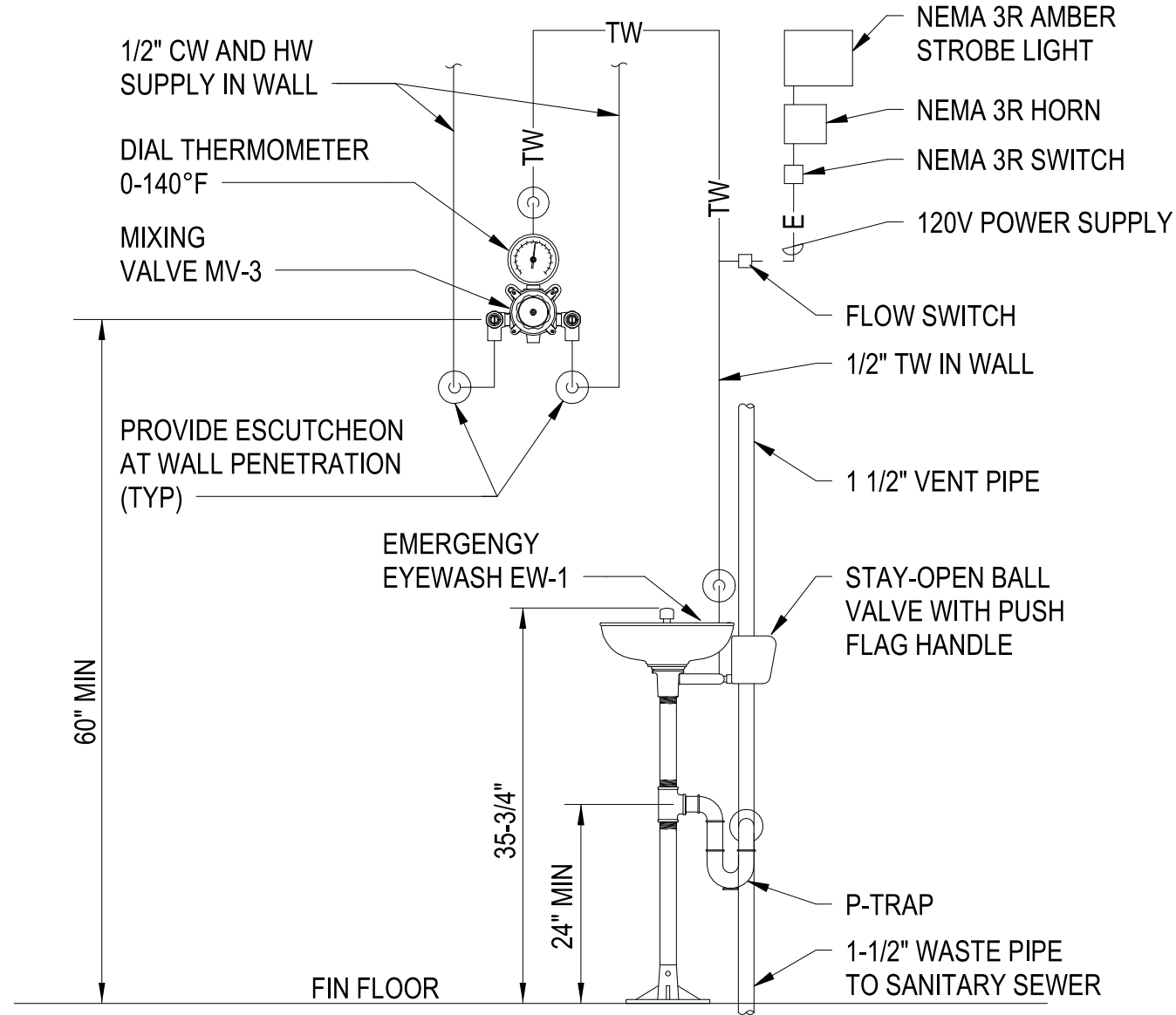
C

B

A

1

2

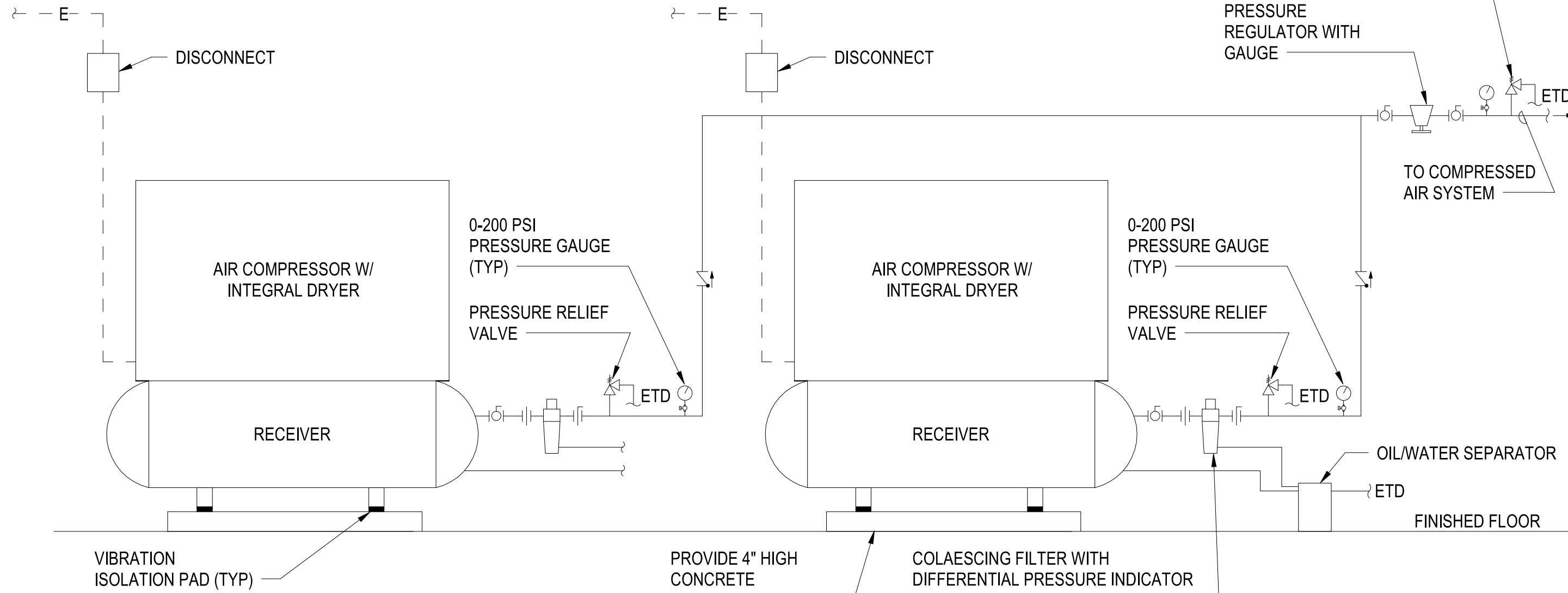


EMERGENCY EYEWASH (EW-1) DETAIL

SCALE:NTS

C1

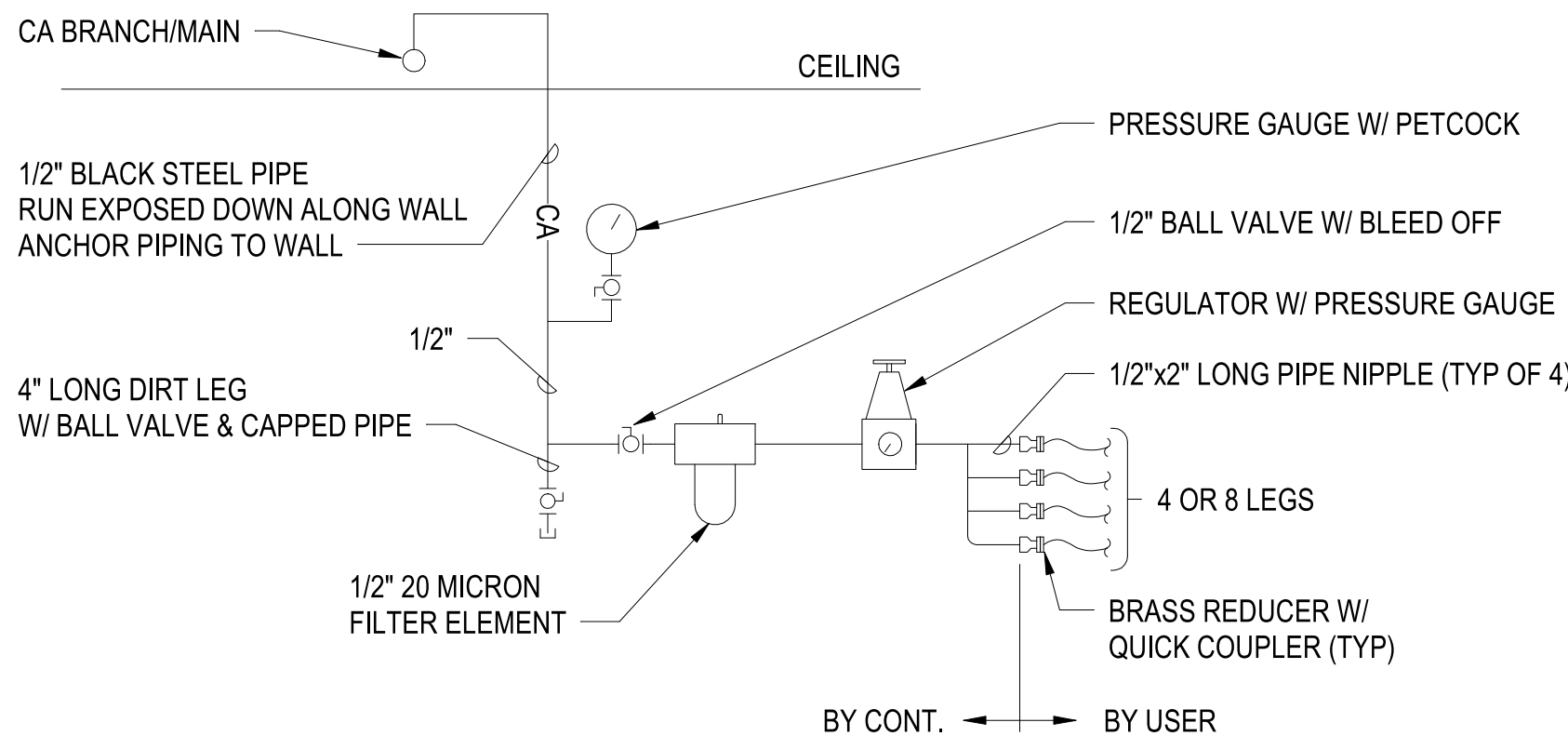
3



AIR COMPRESSOR DETAIL

SCALE:NTS

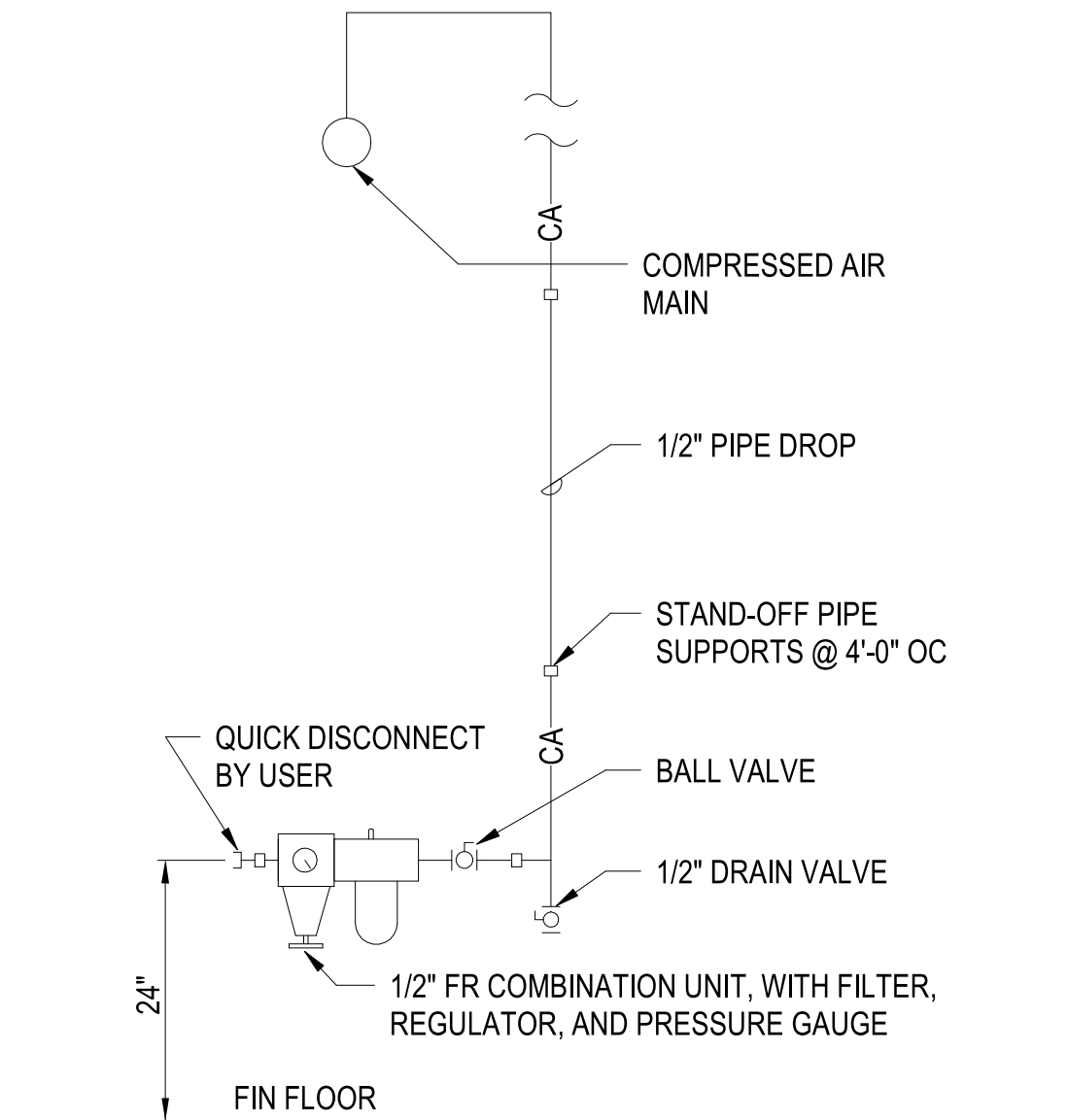
C3



SANITATION ROOM COMPRESSED AIR OUTLET DETAIL

SCALE:NTS

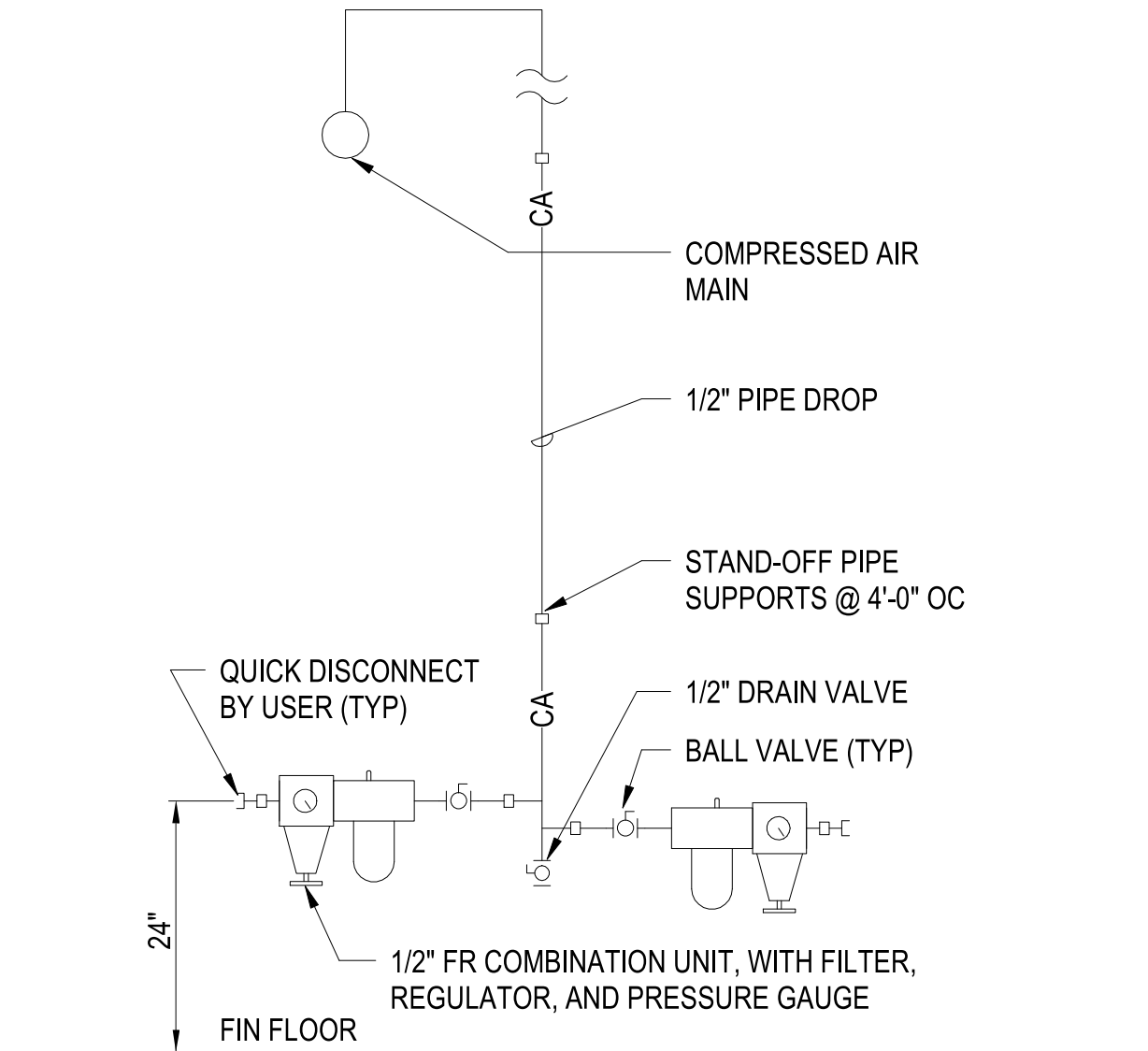
A1



COMPRESSED AIR SINGLE OUTLET DETAIL

SCALE:NTS

A3



COMPRESSED AIR DUAL OUTLET DETAIL

SCALE:NTS

A4

UNCLASSIFIED

SYN	DESCRIPTION	DATE	APPR



PRELIMINARY
Not for construction



Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH DRW JTP CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVFAC CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - DETAILS

SCALE:	AS NOTED
EPROJECT NO.:	1639600
CONSTR. CONTR. NO.	N40085-20-C-0059
NAVFAC DRAWING NO.	
SHEET	OF

P-502

P1527 PREFINAL SUBMISSION - 08/06/2021

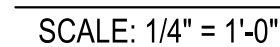
UNCLASSIFIED

B

A

D

C



P-503

UNCLASSIFIED

UNCLASSIFIED

OIL/WATER SEPARATOR SCHEDULE										
TAG	LOCATION	MATERIAL	CAPACITY (GAL)	FLOW RATE (GPM)	CONNECTIONS			BASIS OF DESIGN		NOTES
					INLET	OUTLET	VENT	MANUF	MODEL	
OWS-1	SEE CIVIL PLANS	PRECAST CONCRETE	500	50	4"	4"	3"	OLDCASTLE	4x6 500OWS	1, 2, 3
NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. 2. PROVIDE BASIS OF DESIGN MANUFACTURER/MODEL OR APPROVED EQUAL 3. REFER TO DETAIL A3/P-501										

MIXING VALVE SCHEDULE									
TAG	ASSE NO.	LOCATION	MINIMUM FLOW RATE (GPM)	MAXIMUM FLOW RATE (GPM) (SEE NOTE 2)	CONNECTIONS		BASIS OF DESIGN		NOTES
					INLET (IN)	OUTLET (IN)	MANUF	MODEL	
MV-1	1017	MECH ROOM	1	29	3/4	1	LEONARD VALVE	TM-S20B	1,2
MV-2	1070	SINKS	0.25	2.3	3/8	3/8	LEONARD VALVE	170 LF	1,2
MV-3	1071	EMERGENCY EYEWASH	2	6	1/2	1/2	GUARDIAN	G3600LF	1,2
NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. 2. AT 10 PSI PRESSURE DROP									
8/2/2021 16:32									

WATER HAMMER ARRESTOR (WHA) SCHEDULE					
TAG	P.D.I. SIZE	CONNECTION SIZE (in)	TYPE	FIXTURE UNIT CAPACITY	NOTES
WHA-1	A	3/4"	NESTING BELLOWS	1 TO 11 SFU	1, 2, 3
WHA-2	B	3/4"	NESTING BELLOWS	12 TO 32 SFU	1, 2, 3
WHA-3	C	1"	NESTING BELLOWS	33 TO 60 SFU	1, 2, 3
WHA-4	D	1"	NESTING BELLOWS	61 TO 113 SFU	1, 2, 3
WHA-5	E	1"	NESTING BELLOWS	114 TO 154 SFU	1, 2, 3
WHA-6	F	1"	NESTING BELLOWS	155 TO 330 SFU	1, 2, 3
NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. 2. PROVIDE WATER HAMMER ARRESTORS AT FLUSH VALVE-OPERATER FIXTURES, SOLENOID VALVES, AND ANY OTHER CLOSING VALVES. 3. FURNISH ACCESS PANELS, WHERE REQUIRED, FOR INSTALLATION BY GENERAL CONTRACTOR.					

BACKFLOW PREVENTER SCHEDULE									
TAG	TYPE	SYSTEM	LOCATION	NOMINAL SIZE (IN)	FLOW RATE (GPM)	MAXIMUM PRESSURE DROP (PSI)	BASIS OF DESIGN		NOTES
							MANUF	MODEL	
BFP-1	RPZ	DOMESTIC WATER	MECH ROOM	3"	80	12	ZURN	375	1, 2, 3, 4
BFP-2	DUAL CHECK	DOMESTIC WATER	BREAK ROOM	1/2"	0.5	3	WATTS	LF9D	1,3

NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
2. PROVIDE FIXED AIRGAP. DISCHARGE TO NEAREST FLOOR DRAIN.
3. ALL INSTALLED BACKFLOW PREVENTERS TO BE TESTED AND CERTIFIED AT THE COMPLETION OF THE PROJECT BY A PERSON CERTIFIED TO TEST THESE DEVICES, AND THE TEST RESULTS SUBMITTED.
4. INSTALL AT A MAXIMUM OF 60" ABOVE FINISHED FLOOR.

8/2/2021 16:30

EXPANSION TANK SCHEDULE											
TAG	TYPE	SYSTEM	LOCATION	DIMENSIONS DIA X H (in)	CONNECTIONS (in)	VOLUME		FACTORY PRE-CHARGE PRESSURE (PSI)	BASIS OF DESIGN		NOTES
						TANK (GAL)	ACCEPTANCE (GAL)		MANUF	MODEL	
ET-1	BLADDER	DOMESTIC HOT WATER	MECH ROOM	16 x 24	1	10.3	3.6	40	WESSELS	TTA-30	1,2,3
NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. 2. HEAVY DUTY BUTLY RUBBER BLADDER TYPE. 3. ASME SECTION VIII, DIVISION 1 COMPLIANT.											
8/2/2021 16:32											

PLUMBING FIXTURE SCHEDULE												2018 INTERNATIONAL PLUMBING CODE
TAG	FIXTURE	BASIS OF DESIGN	DESCRIPTION	CONNECTION SIZE				DFU	SFU			NOTES
				SAN	VENT	CW	HW		HW	CW	TOTAL	
WC-1	WATER CLOSET	FIXTURE: AMERICAN STANDARD 3451.128 VALVE: SLOAN ECOS 111-1.28-HW	FLOOR MOUNT, VITREOUS CHINA, HARD-WIRED INFRARED FLUSH VALVE, 1.28 GPF	4"	2"	1"	-	4	-	10	10	1,2,3,4
WC-2	WATER CLOSET	FIXTURE: AMERICAN STANDARD 3461.128 VALVE: SLOAN ECOS 111-1.28-HW	FLOOR MOUNT, VITREOUS CHINA, HARD-WIRED INFRARED FLUSH VALVE, 1.28 GPF, ADA HEIGHT	4"	2"	1"	-	4	-	10	10	1,2,3,4
U-1	URINAL	FIXTURE: AMERICAN STANDARD 6590.001 VALVE: SLOAN ECOS 186 HW-0.5	WALL HUNG, VITREOUS CHINA, HARD-WIRED INFRARED FLUSH VALVE, 0.5 GPF	2"	1 1/2"	3/4"	-	2	-	5	5	1,2,3,4
L-1	LAVATORY	FIXTURE: INTEGRAL W/ COUNTER FAUCET: ZURN Z6915-XL	INTEGRAL WITH SOLID SURFACE COUNTERTOP, VITREOUS CHINA, HARD-WIRED INFRARED FAUCET WITH 0.5 GPM FLOW RATE	1 1/2"	1 1/2"	1/2"	1/2"	1	1.5	1.5	2	1,2,4,5,6
S-1	SINK	FIXTURE: ELKAY DCFU2816 FAUCET: MOEN 8287	SINGLE COMPARTMENT STAINLESS STEEL, UNDERMOUNT SINK, 1.5 GPM FAUCET WITH GOOSENECK SWING SPOUT	1 1/2"	1 1/2"	1/2"	1/2"	2	1	1	1.4	1,2,5
SS-1	SERVICE SINK	RELOCATED FROM EXISTING WAREHOUSE FACILITY	RELOCATE FROM EXISTING WAREHOUSE FACILITY, PROVIDE SERVICE FAUCET WITH FOOT CONTROL FOR EACH BOWL AND APPURTENANCES FOR COMPLETE WORKING SINK	3"	2"	1/2"	1/2"	2	2.25	2.25	1.4	1,2,5
SS-2	SERVICE SINK	FIXTURE: AERO MANUFACTURING S1 FAUCET: CHICAGO FAUCET 897-CP	24"x24", SINGLE COMPARTMENT, STAINLESS STEEL, 1 5/8" OD ADJUSTABLE STAINLESS STEEL LEGS, SERVICE SINK FAUCET WITH INTEGRAL VACUUM BREAKER & WALL BRACE	3"	2"	1/2"	1/2"	2	2.25	2.25	1.4	1,2,5
MR-1	MOP RECEPTOR	FIXTURE:FIAT TSB3000 FAUCET: CHICAGO FAUCET 897-CP	24" x 24" TERRAZZO BASIN, STAINLESS STEEL RIM GUARD, SERVICE SINK FAUCET WITH INTEGRAL VACUUM BREAKER & WALL BRACE, STAINLESS STEEL WALL SURROUND, HOSE & BRACKET	3"	2"	3/4"	3/4"	2	2.25	2.25	3	1,2
OB-1	OUTLET BOX	FIXTURE: OATEY	RECESSED POLYSTYRENE BOX, 1/4 TURN VALVE	-	-	1/2"	-	-	-	-	-	1
HB-1	HOSE BIBB	FIXTURE: WATTS SERIES SC8	EXPOSED, WITH VACUUM BREAKER	-	-	1/2"	-	-	-	2.5	2.5	1,2,7
WH-1	WALL HYDRANT	FIXTURE: WATTS HY-725	ENCASED, ANTI-SIPHON, NON-FREEZE, AUTOMATIC DRAINING	-	-	3/4"	-	-	-	3	3	1,2,8
TP-1	TRAP PRIMER DIST UNIT	FIXTURE: PPP P1-500	AUTOMATIC, PRESSURE-ACTIVATED VALVE, 4-WAY DISTRIBUTION UNIT FOR 1-4 FLOOR DRAINS	-	-	1/2"	-	-	-	-	-	1
TP-2	TRAP PRIMER DIST UNIT	FIXTURE: PPP PRIME TIME	AUTOMATIC ELECTRONIC SURFACE MOUNT TRAP PRIMING ASSEMBLY, 120v SOLENOID VALVE	-	-	3/4"	-	-	-	-	-	1
EW-1	EMERGENCY EYEWASH	FIXTURE: GUARDIAN	EMERGENCY EYEWASH WITH FLOW INITIATED HORN AND STROBE	-	-	-	-	-	-	-	-	1
NOTES: 1. INSTALL FIXTURE AND ALL ASSOCIATED ACCESSORIES AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. 2. PROVIDE ALL REQUIRED ACCESSORIES AND APPURTENANCES, INCLUDING BUT NOT LIMITED TO, COUPLINGS, STUDS & GASKETS, SUPPLIES & STOPS, ESCUTCHEONS, TAILPIECES AND P-TRAPS. 3. PROVIDE FIXTURE FLUSH VALVE WITH PUSH-BUTTON OVERRIDE. 4. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. 5. PROVIDE PRE-MOLDED INSULATION ON EXPOSED CW & HW SUPPLIES AND STOPS, AND DRAIN PIPING BELOW FIXTURES. 6. PROVIDE THERMOSTATIC MIXING VALVE, COMPLYING WITH ASSE 1070, BELOW FIXTURE. 7. INSTALL AT 18" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. 8. INSTALL AT 36" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.												

GAS-FIRED WATER HEATER SCHEDULE																		
TAG	TYPE	LOCATION	DIMENSIONS DIA x H (IN)	STORAGE (GAL)	RECOVERY (GPH)	TEMPERATURE RISE (°F)	STORAGE TEMPERATURE (°F)	CONNECTIONS					ELECTRICAL			BASIS OF DESIGN		NOTES
								CW (IN)	HW (IN)	GAS	GAS VENT	AIR INLET	VOLTS	PHASE	HERTZ	MANUF	MODEL	
GWH-1	STORAGE TANK	JEFS BOILER ROOM 213	27 3/4"ø x 76 1/2"	100	235	100	140	1 1/2"	1 1/2"	3/4"	4"	4"	120	1	60	AO SMITH	BTH199A	1.2,3,4
NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. 2. RECOVERY RATE AT 100°F RISE. 3. PROVIDE TERMINAL KIT FOR EXTENSION OF GAS VENT AND COMBUSTION AIR THRU EXTERIOR WALL. REFER TO HVAC DRAWINGS FOR GAS VENTING AND AIR INLET PIPING. 4. PROVIDE CONDENSATE NEUTRALIZATION KIT.																		

8/2/2021 16:32

PUMP SCHEDULE																
TAG	PUMP TYPE	SYSTEM	LOCATION	FLOW RATE (GPM)	HEAD	CONNECTIONS		ELECTRICAL						BASIS OF DESIGN		NOTES
						SUCTION (IN)	DISCHARGE (IN)	HP	AMPS	VOLTS	PHASE	HERTZ	RPM	MANUF	MODEL	
RP-1	IN-LINE CIRCULATOR	DOMESTIC HOT WATER RETURN	JEFS BOILER ROOM 213	4	13	1/2	1/2	0.125	0.65	115	1	60	-	GRUNDFOS	ALPHA1	1, 2, 3
NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. 2. PROVIDE AQUASTAT AND CONNECTION TO BUILDING DDC SYSTEM FOR PUMP CONTROL. 3. PROVIDE THERMAL OVERLOAD SWITCH.																

FLOOR DRAIN/TRENCH DRAIN SCHEDULE										
TAG	DESCRIPTION	LOCATION	STRAINER SIZE	STRAINER MATERIAL	BODY MATERIAL	OPEN DRAIN AREA (in²)	ACCESSORIES	BASIS OF DESIGN		NOTES
								MANUF	MODEL	
FD-1	FLOOR DRAIN	TOILETS, JANITORS, BREAKROOM	7"ø	NICKEL BRONZE	CAST IRON	12	-	ZURN	Z415	1, 2
FD-2	FLOOR DRAIN	MECH ROOM	9"ø	DURA-COATED CAST IRON	CAST IRON	18	SEDIMENT BUCKET	ZURN	Z511	1, 2
FD-3	FLOOR DRAIN	BREAK ROOM	5"ø	NICKEL BRONZE	CAST IRON	6 1/4	4" FUNNEL ASSEMBLY	ZURN	Z415	1, 2
FS-1	FLOOR SINK	MECH ROOM	12"x12"	NICKEL BRONZE	CAST IRON	25	-	ZURN	ZN1900	1, 2
TD-1	TRENCH DRAIN	WAREHOUSE	5 3/8" WIDE	DUCTILE IRON	HDPE	28.1/FT	-	ZURN	Z886	1

NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
2. PROVIDE WITH 1/2" TRAP PRIMER CONNECTION.

[illegible]

PRELIMINARY
NOT FOR CONSTRUCTION



Michael Baker
INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108 A/E INFO
APPROVED

FOR COMMANDER NAVFAC			
ACTIVITY			
MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE		DD/MM/YY	
DES	SKH	DRW	JTP CHK DWH
PM			
BRANCH HEAD			
DESIGN DIRECTOR			
FIRE PROTECTION			

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC DESIGN AND CONSTRUCTION	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC NORFOLK, VA
MCB CAMP LEJEUNE	JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE	
PLUMBING - SCHEDULES	

SCALE:	AS NOTED
EPROJECT NO.:	1639600
CONSTR. CONTR. NO.	N40085-20-C-0059
NAVFAC DRAWING NO.	
SHEET	OF

P-601

A

B

C

D

COMPRESSED AIR EQUIPMENT SCHEDULE																	
TAG	DESCRIPTION	TYPE	LOCATION	TANK CAPACITY (GAL)	RATED CAPACITY (CFM)	OUTLET PRESSURE (PSI)	DIMENSIONS W x D x H (IN)	ELECTRICAL						APPROXIMATE WEIGHT (LBS)	BASIS OF DESIGN		NOTES
								HP	AMPS	VOLTS	PHASE	HERTZ	RPM		MANUF	MODEL	
AC-1	AIR COMPRESSOR	ROTARY SCREW	MECHANICAL 120	132.0	122	125.0	33 x 74 x 72	25.0	-	460.0	3.0	60.0	-	750.0	ATLAS COPCO	GA18-125	1,2
AC-2	AIR COMPRESSOR	ROTARY SCREW	MECHANICAL 120	132.0	122	125.0	33 x 74 x 72	25.0	-	460.0	3.0	60.0	-	750.0	ATLAS COPCO	GA18-125	1,2
NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. 2. PROVIDE VIBRATION ISOLATION ON PIPING AND EQUIPMENT MOUNTING.																	
8/2/2021 16:32																	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MOB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC
NORFOLK, VA
JACKSONVILLE, NC

LOGCOM CSP WAREHOUSE

PLUMBING - SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH | DRW JTP | CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED
A/E INFO

Michael Baker
INTERNATIONAL
A JOINT VENTURE
WM Jordan COMPANY

PRELIMINARY
Not for construction
SEAL

NAVFAC

																	APPR
																	DATE
																	DESCRIPTION
																	SYM



FILE NAME: BIM 360://HF PACKAGE 3/P1527 LOG COM CSP-1639600-P.rvt

SCALE:	AS NOTED
EPROJECT NO.:	163960
CONSTR. CONTR. NO.	N40085-20-C-0059
NAVFAC DRAWING NO.	
SHEET	OF
P-701	

P1527 PREFINAL SUBMISSION - 08/06/2021

UNCLASSIFIED

FILE NAME: BIM 360/HF PACKAGE 3/PT1527 LOG.COM CSP-1639600-P-01
PLOTTED: 8/2/2021 5:08:26 PM

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC

A

B

C

D

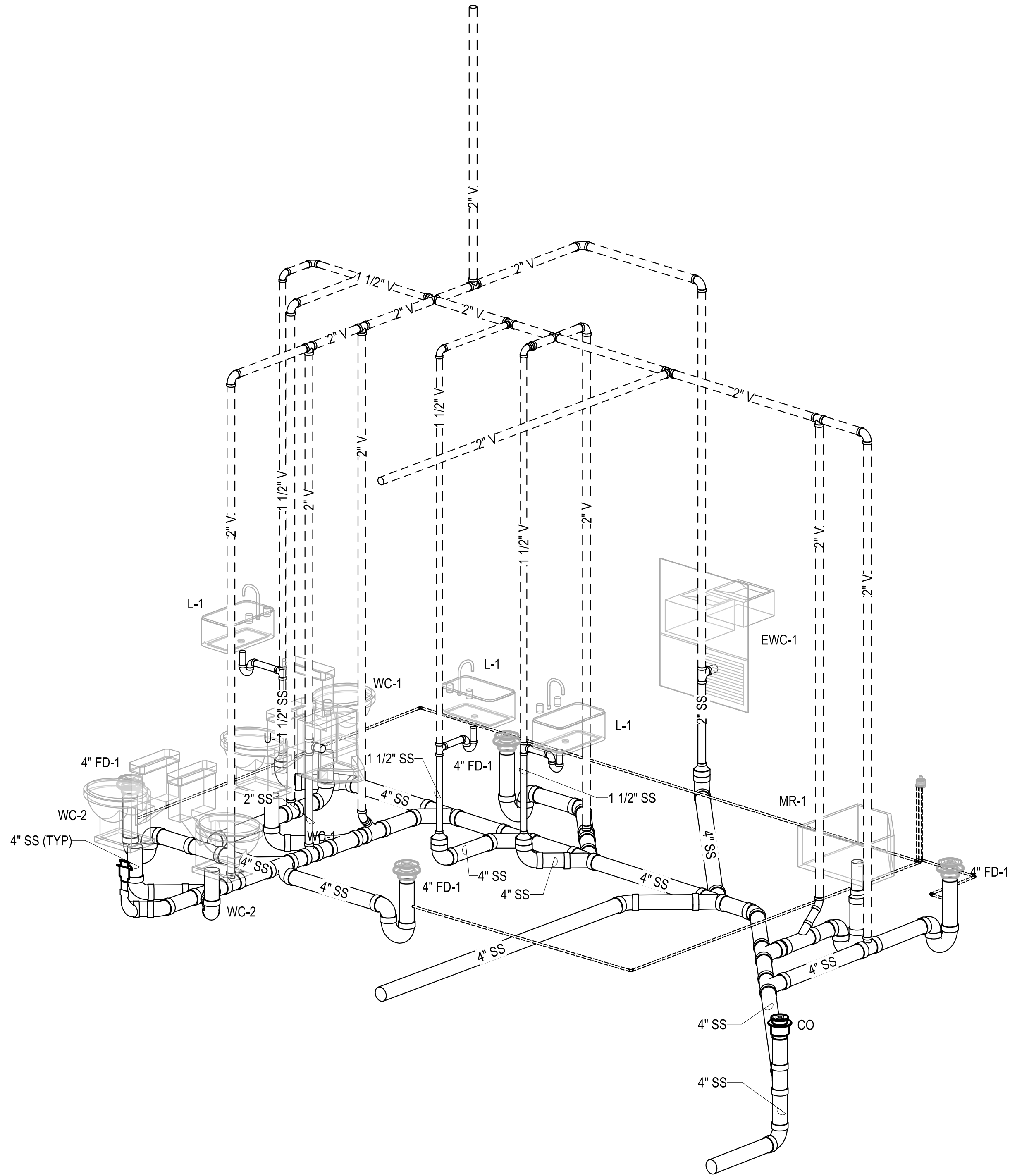
1

2

UNCLASSIFIED
3

4

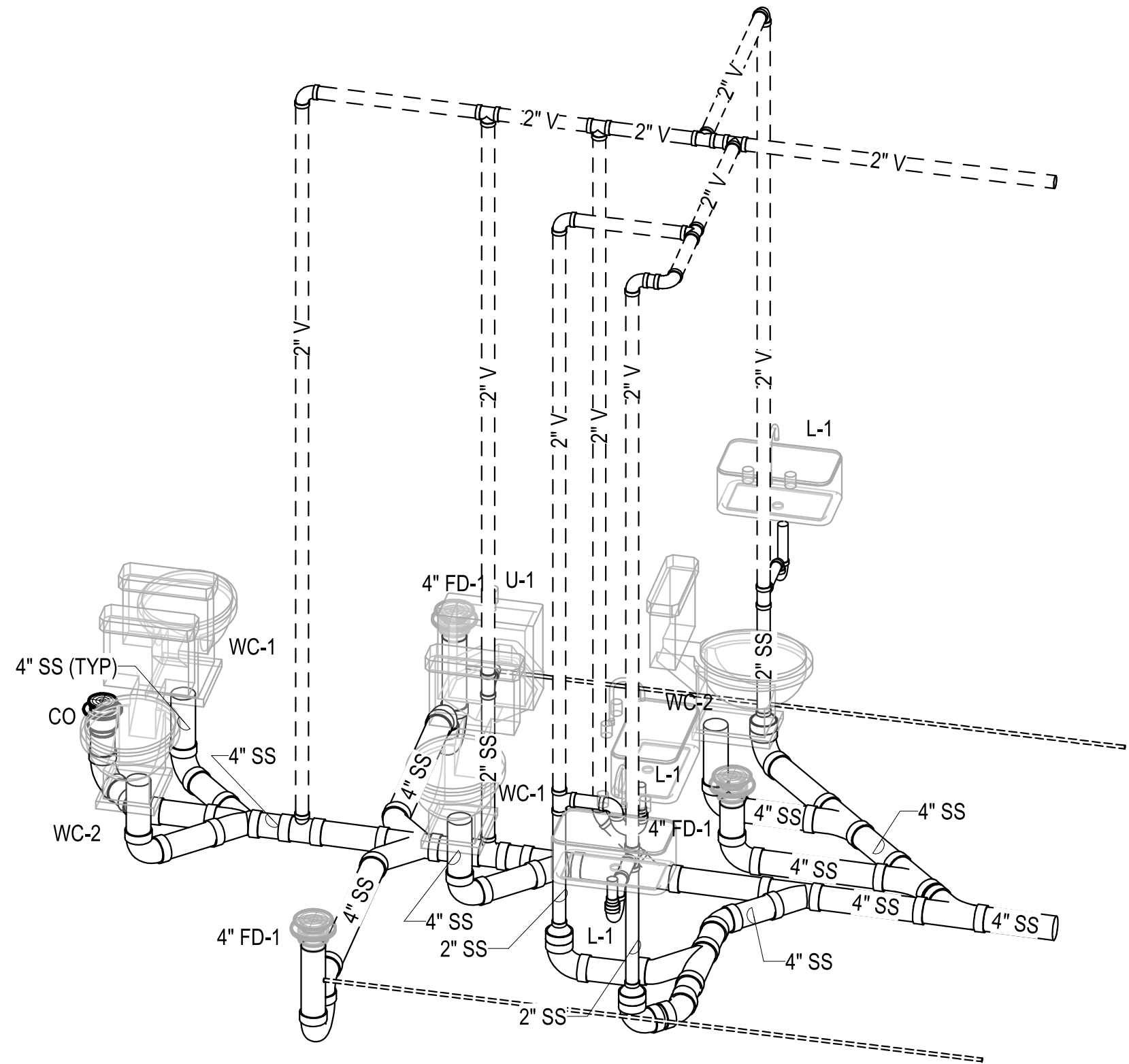
5



G020/022 SANITARY & VENT RISER DIAGRAM

SCALE: NTS

B2



G010/012 SANITARY & VENT RISER DIAGRAM

SCALE: NTS

B4



PRELIMINARY
Not for Construction



Michael Baker
INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE DD/MM/YY

DES SKH DRW JTP CHK DWH

PM

BRANCH HEAD

DESIGN DIRECTOR

FIRE PROTECTION

NAVFAC DRAWING NO.

SHEET OF

P-702

P1527 PREFINAL SUBMISSION - 08/06/2021

UNCLASSIFIED

D

C

B

A

UNCLASSIFIED

1

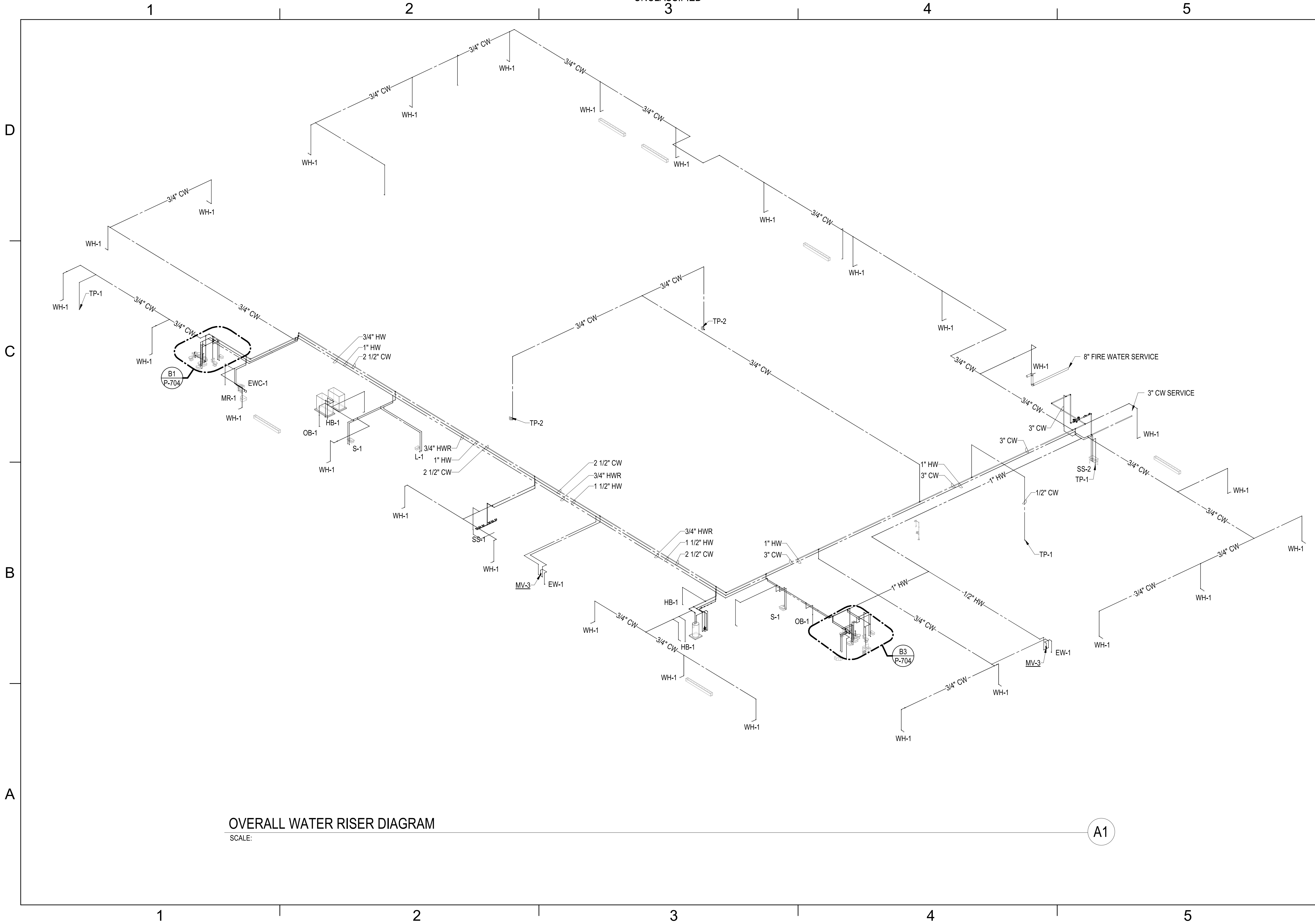
2

3

4

5

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG.COM CSP-1639600-P-01
PLOTTED: 8/2/2021 5:08:28 PM



OVERALL WATER RISER DIAGRAM
SCALE:

A1

SYN		DESCRIPTION		DATE	APPR
					
PRELIMINARY Not for Construction					
 Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED					
FOR COMMANDER NAVFAC					
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE					
SATISFACTORY TO DATE DD/MM/YY					
DES SKH DRW JTP CHK DWH					
PM					
BRANCH HEAD					
DESIGN DIRECTOR					
FIRE PROTECTION					
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC DESIGN AND CONSTRUCTION		JACKSONVILLE, NC LOGCOM CSP WAREHOUSE PLUMBING - RISER DIAGRAMS			
SCALE: AS NOTED		EPROJECT NO.: 1639600			
CONSTR. CONTR. NO. N40085-20-C-0059		NAVFAC DRAWING NO.			
SHEET		OF			
P-703					

P1527 PREFINAL SUBMISSION - 08/09/2021

UNCLASSIFIED

[illegible]

PRELIMINARY
NOT FOR CONSTRUCTION



Michael Baker INTERNATIONAL WILMERSIDE DRIVE WILMINGTON TOWNSHIP, PA 15108 APPROVED		A/E INFO
---------------------------------------------------------------------------------------------------------------	--	----------

COMMANDER NAVFAC			
/ITY			
MARINE CORPS BASE CAMP LEJEUNE			
FACTORY TO DATE DD/MM/YY			
SKH	DRW JTP	CHK	DWH
CICH HEAD			
GN DIRECTOR			
PROTECTION			

NAVAL FACILITIES ENGINEERING STATION COMMAND ATLANTIC ATLANTIC DESIGN AND CONSTRUCTION	JACKSONVILLE, NC
MCB CAMP LEJEUNE	LOGCOM CSP WAREHOUSE
PLUMBING • RISER DIAGRAM	

DATE:	AS NOTED
SUBJECT NO.:	1639600
STR. CONTR. NO.	N40085-20-C-0059
AC DRAWING NO.	
BY:	OF:

P-704

[illegible]

FILE NAME: BIM 360/HF PACKAGE 3/P1527 LOG COM CSP-1639600-P-01
PLOTTED: 8/2/2021 5:08:32 PM

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
MOB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - RISER DIAGRAM
P1527 PREFINAL SUBMISSION - 08/09/2021

A

B

C

D

1

2

3

4

5

OVERALL NATURAL GAS RISER DIAGRAM

SCALE:

A1

A1
P-503
TYP

1 1/2" G
1 1/4" G
1 1/4" G
1" G (TYP)
B-01
B-02
B-03
B-04
GWH-1
3/4" G
1 1/2" G

1/2" G
3/4" G
1" G
1 1/4" G
1 1/4" G
1/2" G
2" G
2" G
1" G
1" G

DESIGN INFORMATION:
SYSTEM PRESSURE: 2 PSI REGULATED DOWN TO 14" W.C. AT EACH PIECE OF EQUIPMENT

LONGEST RUN: 450 FT

EQUIPMENT:
(1) GWH @ 199 MBH: 199 MBH
(4) BOILERS @ 399 MBH: 1596 MBH
(8) IRH @ 150 MBH: 1200 MBH
(2) IRH @ 205 MBH: 410 MBH
TOTAL LOAD: 3405 MBH

MIN WORKING PRESSURES:
GWH: 4.8" W.C.
IRH: 5" W.C.
BOILERS: 4" W.C.



PRELIMINARY
Not for construction



Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE DD/MM/YY
DES SKH DRW JTP CHK DWH
PM
BRANCH HEAD
DESIGN DIRECTOR
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
MOB CAMP LEJEUNE
JACKSONVILLE, NC
LOGCOM CSP WAREHOUSE
PLUMBING - RISER DIAGRAM

SCALE: AS NOTED
EPROJECT NO.: 1639600
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

P-706

P1527 PREFINAL SUBMISSION - 08/09/2021

UNCLASSIFIED

B

C

D

UNCLASSIFIED

1

2

3

4

5