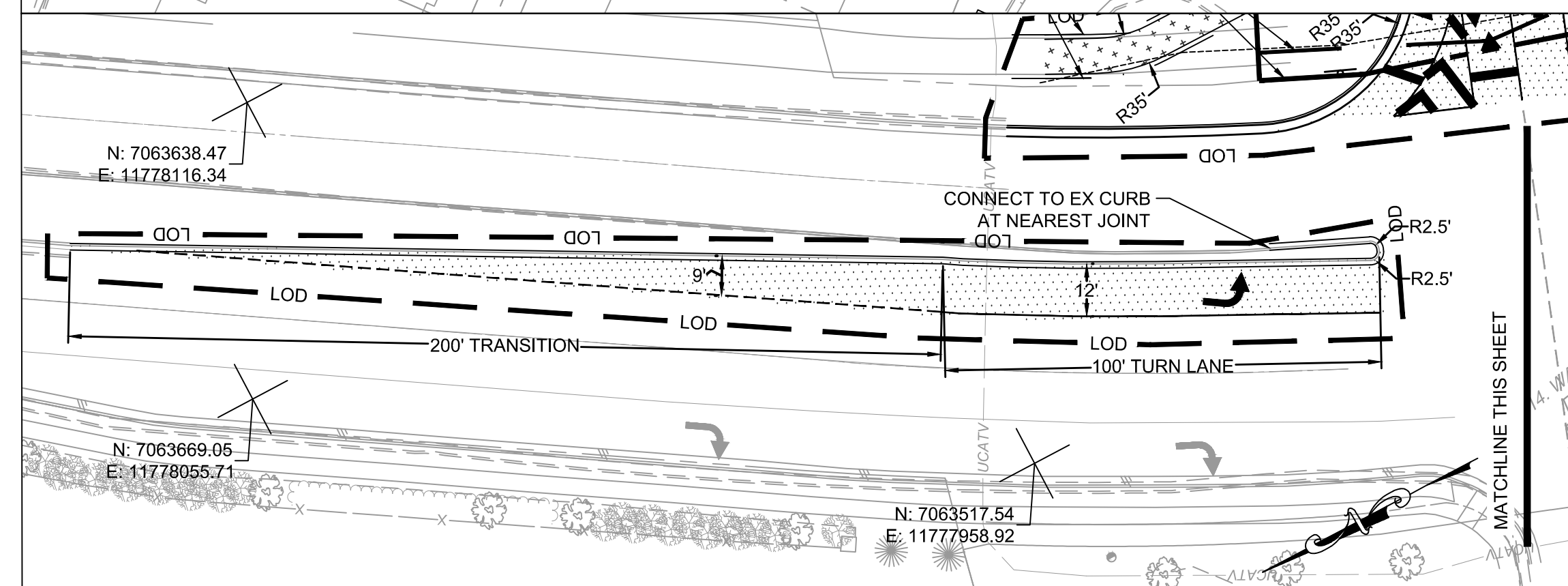
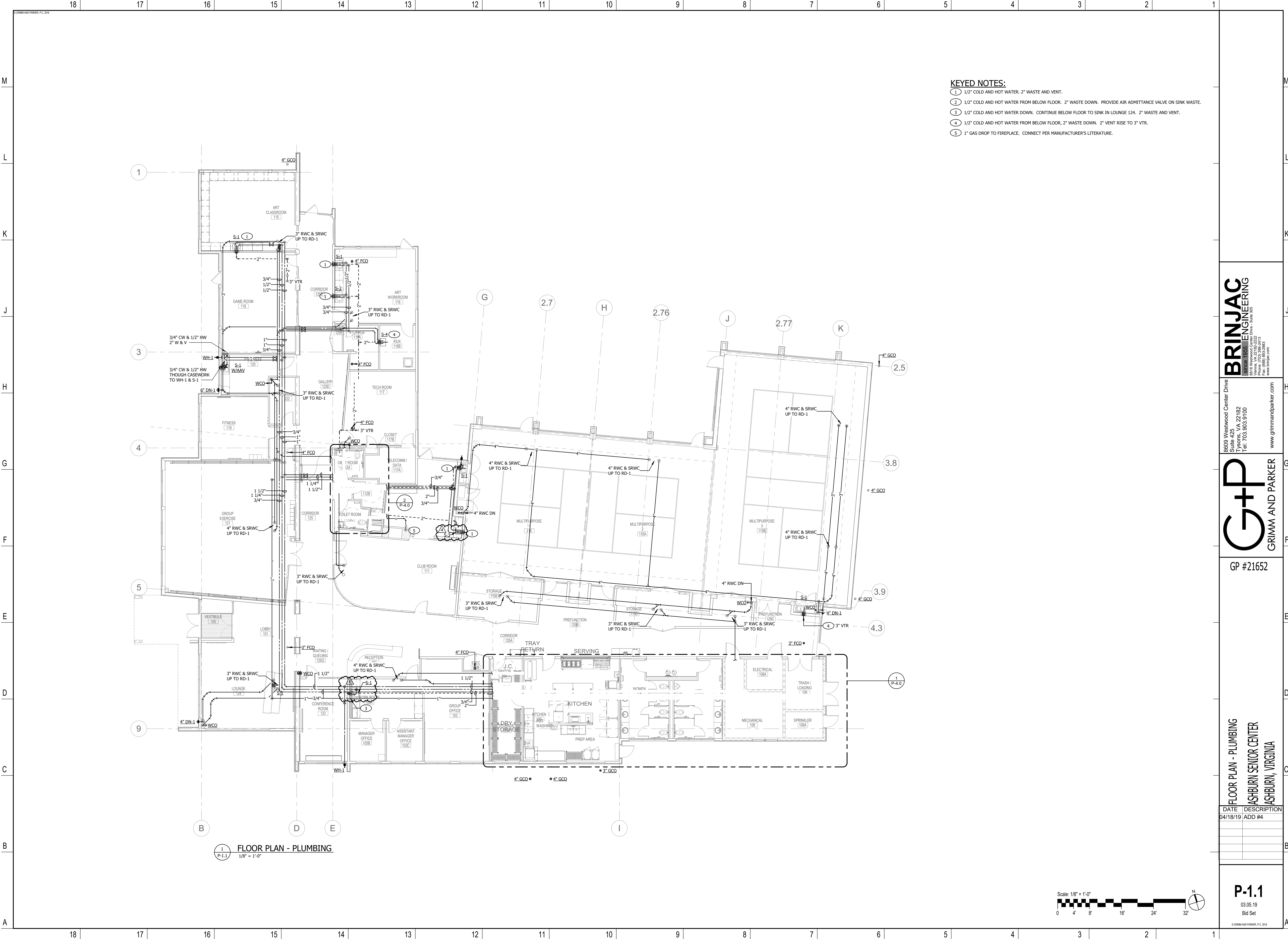




3.5.19 Mid Set



- KEYED NOTES:
- 1 1/2" COLD AND HOT WATER, 2" WASTE AND VENT.
 - 2 1/2" COLD AND HOT WATER FROM BELOW FLOOR. 2" WASTE DOWN. PROVIDE AIR ADMITTANCE VALVE ON SINK WASTE.
 - 3 1/2" COLD AND HOT WATER DOWN. CONTINUE BELOW FLOOR TO SINK IN LOUNGE 124. 2" WASTE AND VENT.
 - 4 1/2" COLD AND HOT WATER FROM BELOW FLOOR, 2" WASTE DOWN. 2" VENT RISE TO 3" VTR.
 - 5 1" GAS DROP TO FIREPLACE. CONNECT PER MANUFACTURER'S LITERATURE.

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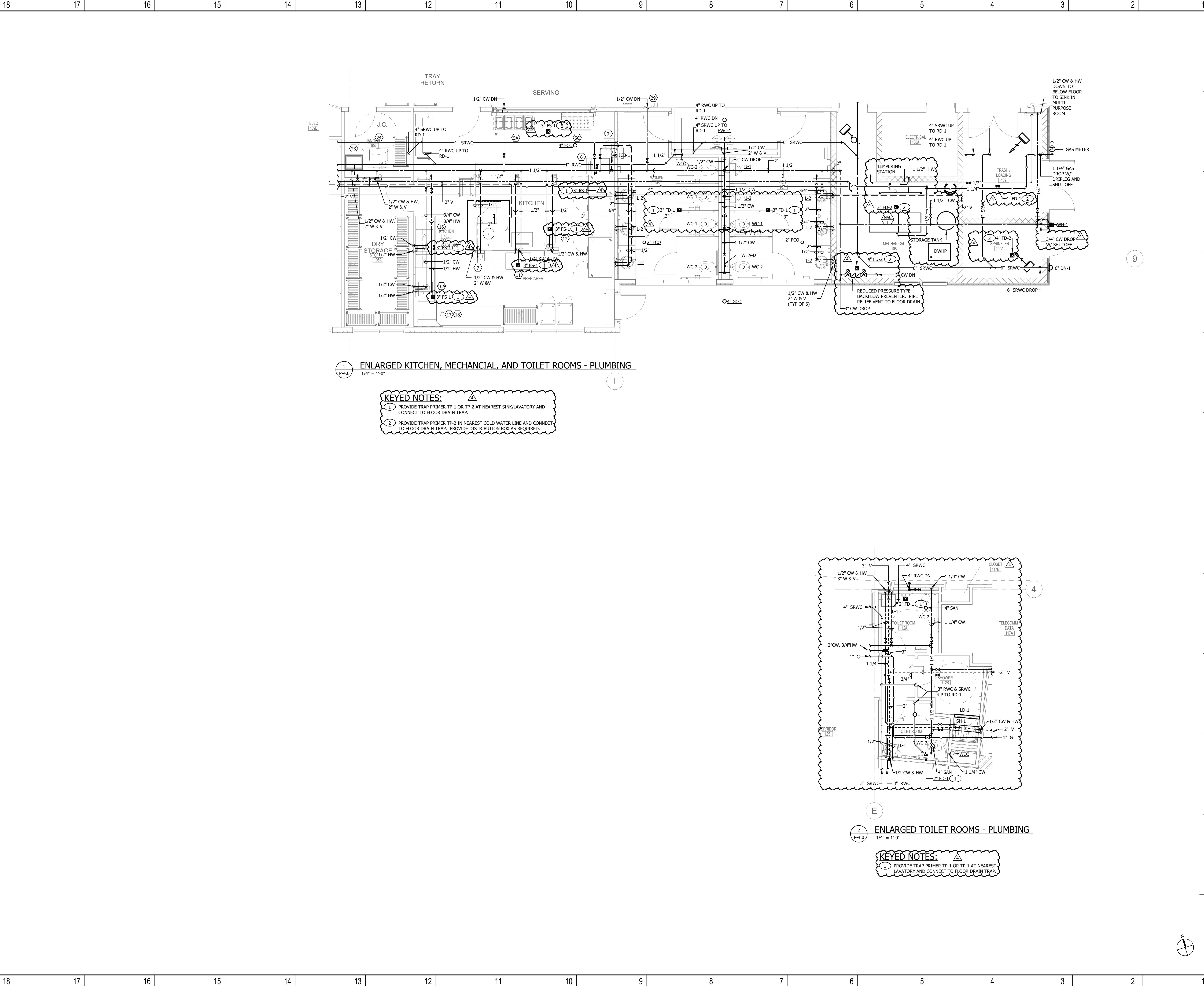
FLOOR PLAN - PLUMBING
ASHBURN SENIOR CENTER
ASHBURN, VIRGINIA

DATE DESCRIPTION
04/18/19 ADD #4

P-1.1
03.05.19
Bid Set

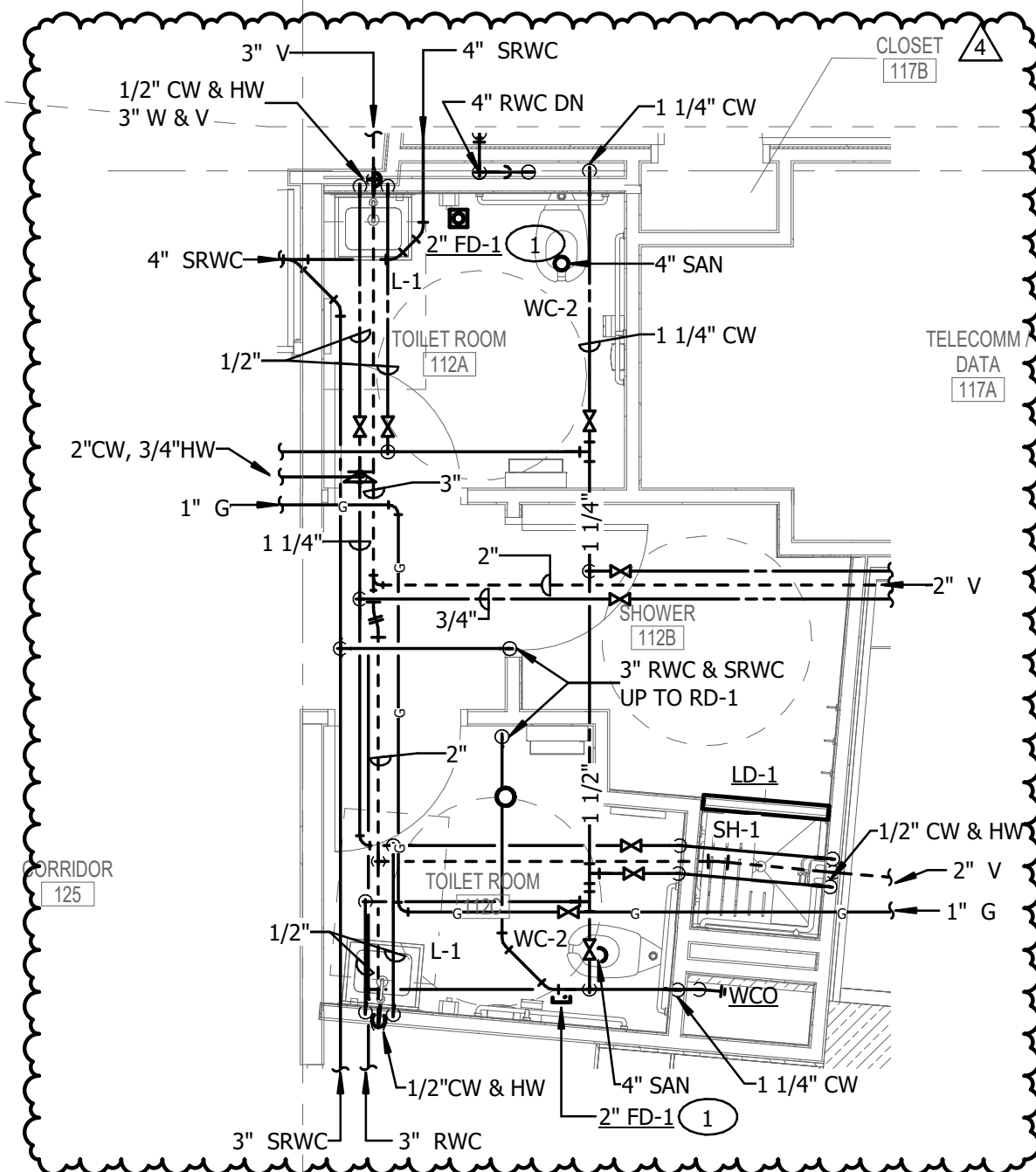
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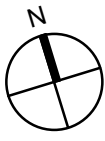
1 ENLARGED KITCHEN, MECHANICAL, AND TOILET ROOMS - PLUMBING
1/4" = 1'-0"

- KEYED NOTES:**
- 1 PROVIDE TRAP PRIMER TP-1 OR TP-2 AT NEAREST SINK/LAVATORY AND CONNECT TO FLOOR DRAIN TRAP.
 - 2 PROVIDE TRAP PRIMER TP-2 IN NEAREST COLD WATER LINE AND CONNECT TO FLOOR DRAIN TRAP. PROVIDE DISTRIBUTION BOX AS REQUIRED.



2 ENLARGED TOILET ROOMS - PLUMBING
1/4" = 1'-0"

- KEYED NOTES:**
- 1 PROVIDE TRAP PRIMER TP-1 OR TP-1 AT NEAREST LAVATORY AND CONNECT TO FLOOR DRAIN TRAP.



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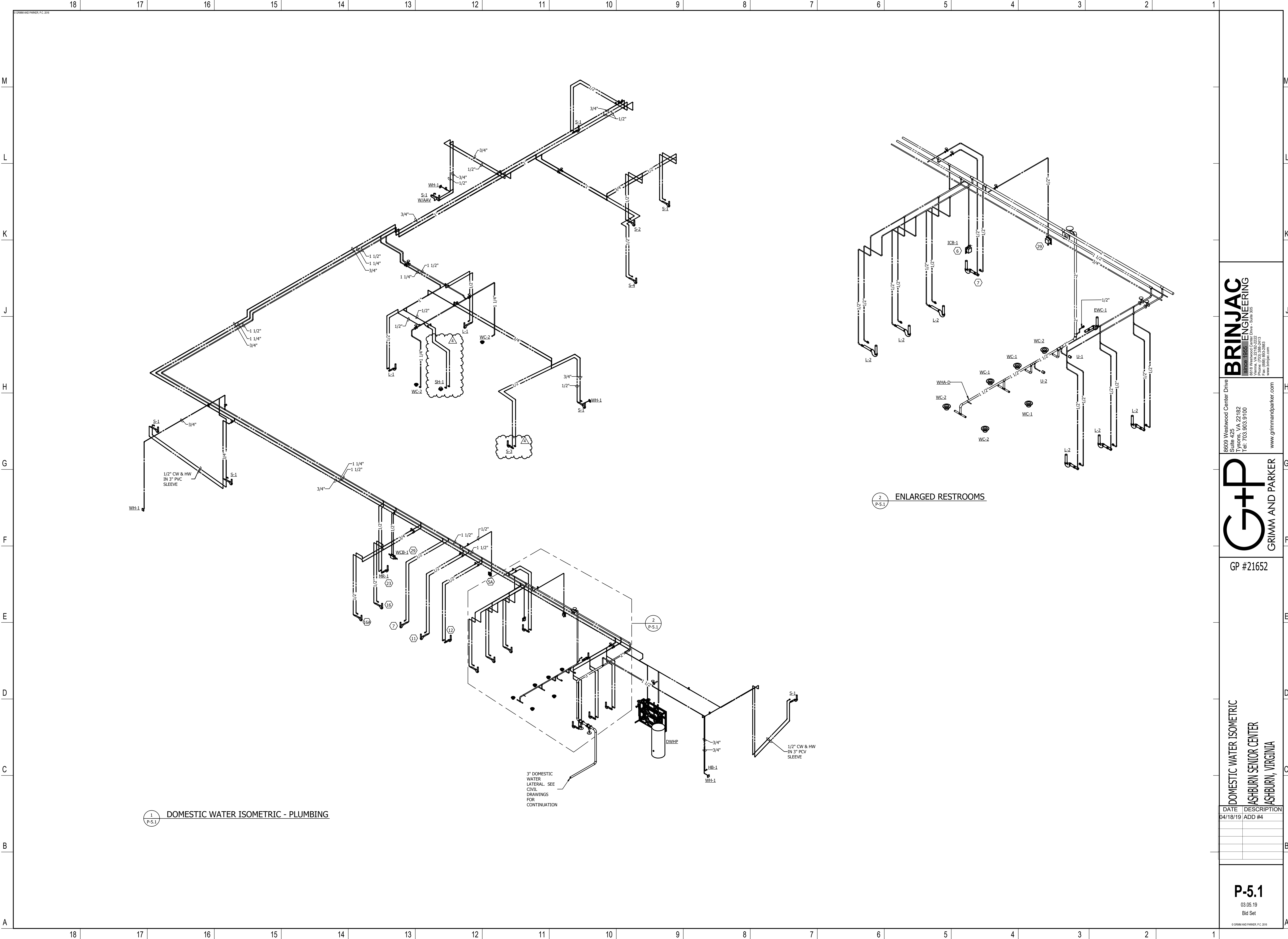
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ENLARGED PLANS - PLUMBING
ASHBURN SENIOR CENTER
ASHBURN, VIRGINIA

DATE	DESCRIPTION
04/18/19	ADD #4

P-4.0
03.05.19
Bid Set

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1 P-5.1 DOMESTIC WATER ISOMETRIC - PLUMBING

3" DOMESTIC WATER LATERAL SEE CIVIL DRAWINGS FOR CONTINUATION

2 P-5.1 ENLARGED RESTROOMS

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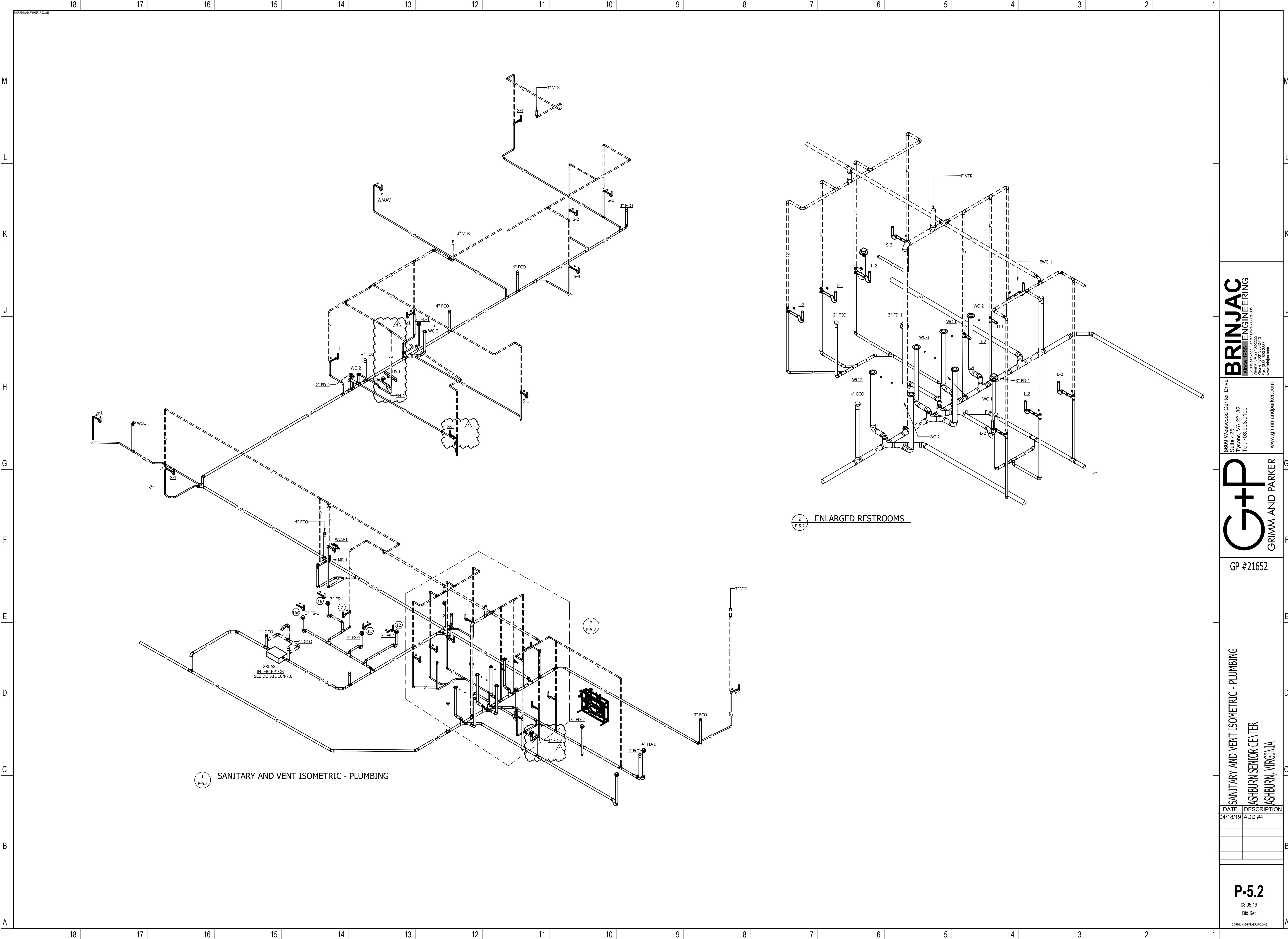
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DOMESTIC WATER ISOMETRIC
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DATE	DESCRIPTION
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SANITARY AND VENT ISOMETRIC - PLUMBING
ASHBURN SENIOR CENTER
ASHBURN, VIRGINIA

DATE	DESCRIPTION
04/18/19	ADD #4

P-5.2
03.05.19
Bid Set

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PIPING INSULATION SCHEDULE							
PIPING SYSTEM	TEMPERATURE, °F	PIPE SIZE				MATERIAL	VAPOR BARRIER
		1 1/4" & BELOW	1 1/2" TO 2"	2 1/2" TO 4"	ABOVE 4"		
DOMESTIC COLD WATER	40° - 65°	1/2"	1"	1"	1"	FLEXIBLE ELASTOMERIC	YES
DOMESTIC HOT AND RECIRCULATED WATER	100° - 150°	1"	1 1/2"	1 1/2"	1 1/2"	FLEXIBLE ELASTOMERIC OR MINERAL FIBER	NO
HORIZONTAL RAINWATER	32° - 80°	1/2"	1"	1"	1"	FLEXIBLE ELASTOMERIC	YES
ROOF DRAIN BODIES	32° - 80°	-	-	1"	1"	FLEXIBLE ELASTOMERIC	YES

GREASE INTERCEPTOR SCHEDULE								
TAG	LIQUID CAPACITY (GAL)	GREASE CAPACITY (LBS)	SOLIDS CAPACITY (GAL)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	CLEARANCE FOR CLEANING (IN)	BASIS OF DESIGN
GI-1	125	653	19.2	46	32	38 1/2	-	SCHIER GB-75

TRAP PRIMER SCHEDULE				
SYMBOL	DESCRIPTION	INLET	OUTLET	REMARKS
TP-1	DRAINAGE TYPE, TRAP ARM	1 1/2"	1/2"	
TP-2	SUPPLY TYPE	1/2"	1/2"	PROVIDE MANUFACTURER'S STANDARD MANIFOLD ON OUTLET AS REQUIRED TO CONNECT TO NUMBER OF FLOOR DRAINS TO BE SERVED.
TP-3	TRAP SEAL PRIMER SYSTEM	3/4"	1/2"	COORDINATE NUMBER OF OUTLETS ON MANIFOLD WITH NUMBER OF FLOOR DRAINS TO BE SERVED.
NOTES: 1. UNDERGROUND TRAP PRIMER PIPING SHALL BE COPPER.				

PUMP SCHEDULE												
TAG	SERVICE	LOCATION	FLOW, GPM	HEAD, FT	ELECTRICAL CHARACTERISTICS				MANUFACTURER/MODEL NUMBER	REMARKS		
					RPM	HP	VOLTS	AMPS				
P-1	DOMESTIC HOT WATER RECIRCULATION	MECHANICAL 108	2	17	1750	1/6	115	1	BELL & GOSSETT SERIES PR	PROVIDE WITH THERMOSTATIC CONTROL. BAS SHALL ENABLE/DISABLE PUMP AND MONITOR PUMP STATUS. SEE MS00 GLOBAL MISCELLANEOUS CONTROLS.		
P-2	WATER HEATER CIRCULATION PUMP	MECHANICAL 108	10	12	1750	1/6	115	1	BELL & GOSSETT SERIES PR	PROVIDE WITH THERMOSTATIC CONTROL. BAS SHALL ENABLE/DISABLE PUMP AND MONITOR PUMP STATUS. SEE MS00 GLOBAL MISCELLANEOUS CONTROLS.		

STORAGE TANK SCHEDULE														
TAG	SYSTEM	LOCATION	TYPE	CAPACITY, GALS	RECOVERY, GPM @ °F	GAS IN, MBH	MBH OUT	VENT, IN	ELECTRICAL				MANUFACTURER AND MODEL	REMARKS
									VOLTAGE	PHASE	AMPERAGE	KW		
ST-1	DOMESTIC HOT WATER	MECHANICAL 108	TANK	100	178 @ 100	150	147	3"	120	1	66.6	-	AO SMITH BTH-150 Hw	HEATING ELEMENTS ARE TO SERVE AS A BACK UP HEATING SOURCE TO THE GEOTHERMAL SYSTEM

PLUMBING FIXTURE SCHEDULE											
FIXTURE	DESCRIPTION	MANUFACTURER AND MODEL BASIS OF DESIGN	FAUCET/TRIM BASIS OF DESIGN	SUPPORT BASIS OF DESIGN	FLOW RATE/ CONSUMPTION	COLD WATER	HOT WATER	SOIL/ WASTE	VENT	NOTES	
EWC-1	B1-LEVEL ELECTRIC WATER COOLER	SURFACE MOUNTED, B1-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLER, 8 GPH ELKAY L25TL8WSLK	-	MANUFACTURER'S STANDARDD MOUNTING FRAME		1/2"	-	1 1/2"	1 1/2"		
ICB	ICE MAKER CONNECTION BOX	20 GAUGE STAINLESS STEEL BOX AND TRIM RING	1/4 TURN STOP	RECESSED	-	1/2"	-	-	-		
L-1	ACCESSIBLE WALL HUNG LAVATORY	ACCESSIBLE WALL MOUNTING, VITREOUS CHINA KOHLER K-2005	HARDWIRED SENSOR FAUCET SLOAN BASYS EFX-275-4-PLG-BDT-CP-0.5GPM-MLM-IR-FCT	FLOOR MOUNTED PLATE CARRIER	0.083 GPC	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TEMPERING VALVE ON HOT WATER SUPPLY CONFORMING TO ASSE 1070 AND SET TO DELIVER 110°F MAXIMUM	
L-2	ACCESSIBLE COUNTER TOP LAVATORY	SOLID SURFACE COUNTER WITH INTEGRAL BOWL	HARDWIRED SENSOR FAUCET SLOAN BASYS EFX-275-4-PLG-BDT-CP-0.5GPM-MLM-IR-FCT	COUNTER	0.083 GPC	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TEMPERING VALVE ON HOT WATER SUPPLY CONFORMING TO ASSE 1070 AND SET TO DELIVER 110°F MAXIMUM	
S-1	STAINLESS STEEL SINK	18 GAUGE STAINLESS STEEL, WITH UNDERCOATING WITH REAR CENTER DRAIN OUTLET ELKAY URAD 221355	DECK MOUNTED, COMBINATION HOT AND COLD, SINGLE HOLE, GOOSENECK SPOUT WITH LEVER HANDLE AND PULL DOWN SPRAYER KOHLER K-596	SELF RIMMING COUNTER TYPE	2.2 GPM	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TEMPERING VALVE ON HOT WATER SUPPLY CONFORMING TO ASSE 1070 AND SET TO DELIVER 110°F MAXIMUM	
S-2	STAINLESS STEEL SINK	18 GAUGE STAINLESS STEEL, SELF-RIMMING, WITH UNDERCOATING WITH REAR CENTER DRAIN OUTLET ELKAY URAD 312255	DECK MOUNTED, COMBINATION HOT AND COLD WITH 4" CENTERS, 120 DEGREE SWING, GOOSENECK SPOUT AND WRIST BLADE HANDLES KOHLER K-7305-CP	SELF RIMMING COUNTER TYPE	2.2 GPM	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TEMPERING VALVE ON HOT WATER SUPPLY CONFORMING TO ASSE 1070 AND SET TO DELIVER 110°F MAXIMUM	
S-3	STAINLESS STEEL SINK	18 GAUGE STAINLESS STEEL, SELF-RIMMING, WITH UNDERCOATING WITH REAR CENTER DRAIN OUTLET ELKAY URAD 151755	DECK MOUNTED, COMBINATION HOT AND COLD WITH 4" CENTERS, 120 DEGREE SWING, GOOSENECK SPOUT AND WRIST BLADE HANDLES KOHLER K-7305-CP	SELF RIMMING COUNTER TYPE	2.2 GPM	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE TEMPERING VALVE ON HOT WATER SUPPLY CONFORMING TO ASSE 1070 AND SET TO DELIVER 110°F MAXIMUM	
S-4		ELKAY WNSF8124	SWIVEL FAUCET WITH WRIST BLADE HANDLES MOUNTED ON BACKSPASH KOHLER K-7856-4	FREE STANDING	2.2 GPM	1/2"	1/2"	2"	1 1/2"	PROVIDE TEMPERING VALVE ON HOT WATER SUPPLY CONFORMING TO ASSE 1070 AND SET TO DELIVER 110°F MAXIMUM	
U-1	WALL MOUNTED URINAL	WALL HUNG VITREOUS CHINA HYBRID URINAL SLOAN HYB-4000	-	FLOOR MOUNTED CARRIER	0.125	1/2"	-	2	1 1/2"		
U-2	WALL MOUNTED ACCESSIBLE URINAL	WALL HUNG VITREOUS CHINA HYBRID URINAL SLOAN HYB-4000	-	FLOOR MOUNTED CARRIER	0.125	1/2"	-	2	1 1/2"		
SH-1	ACCESSIBLE SHOWER	TERRAZZO SHOWER BASE	PRESSURE BALANCING SHOWER VALVE WITH LEVER AND CHECKSTOPS AND HAND HELD SHOWER SYMMONS INDUSTRIES, INC. TEMPTROL S-5603-PLR	SET IN GROUT BED	1.5 GPM	1/2"	1/2"	2"	1 1/2"		
WC-1	FLOOR MOUNTED WATER CLOSET	VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET KOHLER K-4406	SENSOR ACTUATED, HARDWIRED, FLUSH VALVE SLOAN 8111-1.6/1.1	FLOOR MOUNTED	1.28 GPF	1 1/4"	-	4"	2"	PROVIDE WITH WHITE, ELONGATED, SOLID PLASTIC, OPEN FRONT SEAT, COMPLETE WITH STAINLESS STEEL POSTS AND COMBINATION SELF-SUSTAINING AND CHECK HINGE	
WC-2	FLOOR MOUNTED ACCESSIBLE WATER CLOSET	VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET KOHLER K-4405	SENSOR ACTUATED, HARDWIRED, FLUSH VALVE SLOAN 8111-1.6/1.1	FLOOR MOUNTED	1.28 GPF	1 1/4"	-	4"	2"	PROVIDE WITH WHITE, ELONGATED, SOLID PLASTIC, OPEN FRONT SEAT, COMPLETE WITH STAINLESS STEEL POSTS AND COMBINATION SELF-SUSTAINING AND CHECK HINGE	
WH-1	FROST PROOF WALL HYDRANT	-	RECESSED, FROSTPROOF WITH LOCKING DOOR AND INTEGRAL VACUUM BREAKER JOSAM 71300	RECESSED IN WALL	-	3/4"	-	-	-		
WH-2	MODERATE CLIMATE WALL HYDRANT	-	RECESSED, MODERATE CLIMATE WITH LOCKING DOOR AND INTEGRAL VACUUM BREAKER JOSAM 71020	RECESSED IN WALL	-	3/4"	-	-	-		

WATER SOURCE HEAT PUMP WATER HEATER SCHEDULE																			
TAG	DOMESTIC LOOP (SUPPLY) WATER					HEAT PUMP LOOP (SOURCE) WATER					HEAT PUMP PERFORMANCE			ELECTRICAL		BASIS OF DESIGN			
	FLOW		EXTERNAL W.P.D (FT HD)	E.W.T. (°F)	L.W.T. (°F)	HEAT REJECTION (MBH)	FLOW (GPM)	E.W.T. (°F)	L.W.T. (°F)	W.P.D (FT)	HEAT ABSORPTION (MBH)	COP	EVAP. SUCTION TEMP (°F)	COMPRESSOR TYPE	REF. TYPE	POWER (V/PH/Hz)	LRA (AMPS)	LRA (AMPS)	MANUFACTURER AND MODEL NUMBERS
	(GPM)	(GPH)																	
DWHP-1	10	118		50	120	76	19	45	35.4	7.9	82.375	5.7		SCROLL	R-410A	208/1/60	26.9	145	WATER FURNACE S SERIES NSW 075 WITH HOT WATER GENERATOR COIL

TYPICAL KITCHEN EQUIPMENT SCHEDULE									
SYMBOL	DESCRIPTION	DRAIN WATER AND VENT		POTABLE WATER			NATURAL GAS		REMARKS
		DIRECT DRAIN SIZE (IN)	INDIRECT DRAIN SIZE (IN)	COLD WATER SIZE (IN)	HOT WATER SIZE (IN)	140°F HOT WATER SIZE (IN)	SIZE (IN)	MBTUH	
5A	COMBI HOT/COLD FOOD COUNTER	-	3/4" TO FS	1/2"	-	-	-	-	DISCHARGE TO FLOOR SINK WITH AIR GAP. PROVIDE ASSE 1022 BACKFLOW PREVENTER ON SUPPLY.
5C	COLD FOOD COUNTER	-	3/4" TO FS	1/2"	-	-	-	-	DISCHARGE TO FLOOR SINK WITH AIR GAP. PROVIDE ASSE 1022 BACKFLOW PREVENTER ON SUPPLY.
6	ICE MACHINE/BIN	-	(2) 3/4" TO FS	1/2"	-	-	-	-	CONNECT ICE MACHINE TO CONNECTION BOX WITH 1/2" COPPER TUBING AND ASSE 1022 BACKFLOW PREVENTER AND WATER FILTER. DISCHARGE ICE MAKER DRAIN AND BIN DRAIN TO FLOOR SINK WITH AIR GAP
7	HAND SINK	1 1/2"	-	1/2"	1/2"	-	-	-	PROVIDE PRESSURE REDUCING VALVE ON SUPPLY AS REQUIRED BY MANUFACTURER'S LITERATURE. DISCHARGE TO FLOOR SINK WITH AIR GAP.
11	PREP SINK	-	(2) 1 1/2" TO FS	1/2"	1/2"	-	-	-	AIR GAP AT FAUCET. DISCHARGE TO FLOOR SINK WITH AIR GAP.
12	WORKTABLE W/ SINK	-	(2) 1 1/2" TO FS	1/2"	1/2"	-	-	-	DISCHARGE TO FLOOR SINK WITH AIR GAP
16	SOILED DISHTABLE	-	2"	3/4"	3/4"	-	-	-	3/4" COLD AND HOT WATER TO SINK FAUCET AND PRE-RINSE SPRAYER. DISCHARGE TO FLOOR SINK WITH AIR GAP
16A	DISPOSER	-	3/4" TO FS	-	-	-	-	-	DISCHARGE TO FLOOR SINK WITH AIR GAP
17	DISHMACHINE	-	-	-	(2) 3/4"	-	-	-	PROVIDE PRESSURE REDUCING VALVE ON SUPPLY AS REQUIRED BY MANUFACTURER'S LITERATURE. DISCHARGE TO FLOOR SINK WITH AIR GAP.
18	CONDENSATE CANOPY	-	3/4"	-	-	-	-	-	DISCHARGE TO FLOOR SINK WITH AIR GAP
23	MOP SINK & RACK	3"	-	1/2"	1/2"	-	-	-	PROVIDE CHECK VALVES ON SUPPLY LINES. VACUUM BREAKER ON FAUCET OUTLET.
24	COMBINATION WASHER/DRYER	-	2"	1/2"	1/2"	-	-	-	DISCHARGE WASHING MACHINE DRAIN TO STANDPIPE. INEGRAL AIR GAP.
29	COFFEE MACHINE	-	-	1/2"	-	-	-	-	CONNECT COFFEE BREWER TO CONNECTION BOX WITH 1/4" COPPER TUBING AND ASSE 1022 BACKFLOW PREVENTER

DRAINAGE SCHEDULE					
TAG	DESCRIPTION	BODY	MANUFACTURER AND MODEL BASIS OF DESIGN	STRAINER/GRATE	REMARKS
FD-1	FLOOR DRAIN	CAST IRON	JOSAM 30200-AD SERIES		-
FD-2	FLOOR DRAIN	CAST IRON	JOSAM 30200-AD SERIES		
FD-3	FUNNEL FLOOR DRAIN	CAST IRON	JOSAM 30200-AD SERIES		WITH 4" FUNNEL FUNNEL ATTACHED GRATE
FS-1	FLOOR SINK	CAST IRON	JOSAM 49300 SERIES	8" SQUARE	ACID RESISTING ENAMEL COATING. ALUMINUM DOME STRAINER. CUT GRATE AS REQUIRED TO DISCHARGE PIPING FROM EQUIPMENT.
LD-1	LINEAR DRAIN	18 GAUGE 316 STAINLESS STEEL	MODULAR DRAINAGE SYSTEM OF CHANNEL SECTIONS, GRATES AND APPURTENANCES QUICKDRAIN USA PLD SERIES	PERFORATED STAINLESS STEEL	
RD-1	COMBINATION ROOF DRAIN	CAST IRON	ZURN Z-163A	11 1/2" DIA ALUMINUM DOME	-
CO	CLEANOUT PLUG	CAST IRON	JOSAM 58900 SERIES	-	-
FCO	FLOOR CLEANOUT	CAST IRON	JOSAM 56000 SERIES	-	-
WCO	WALL CLEANOUT	CAST IRON	JOSAM 58650 SERIES	-	-

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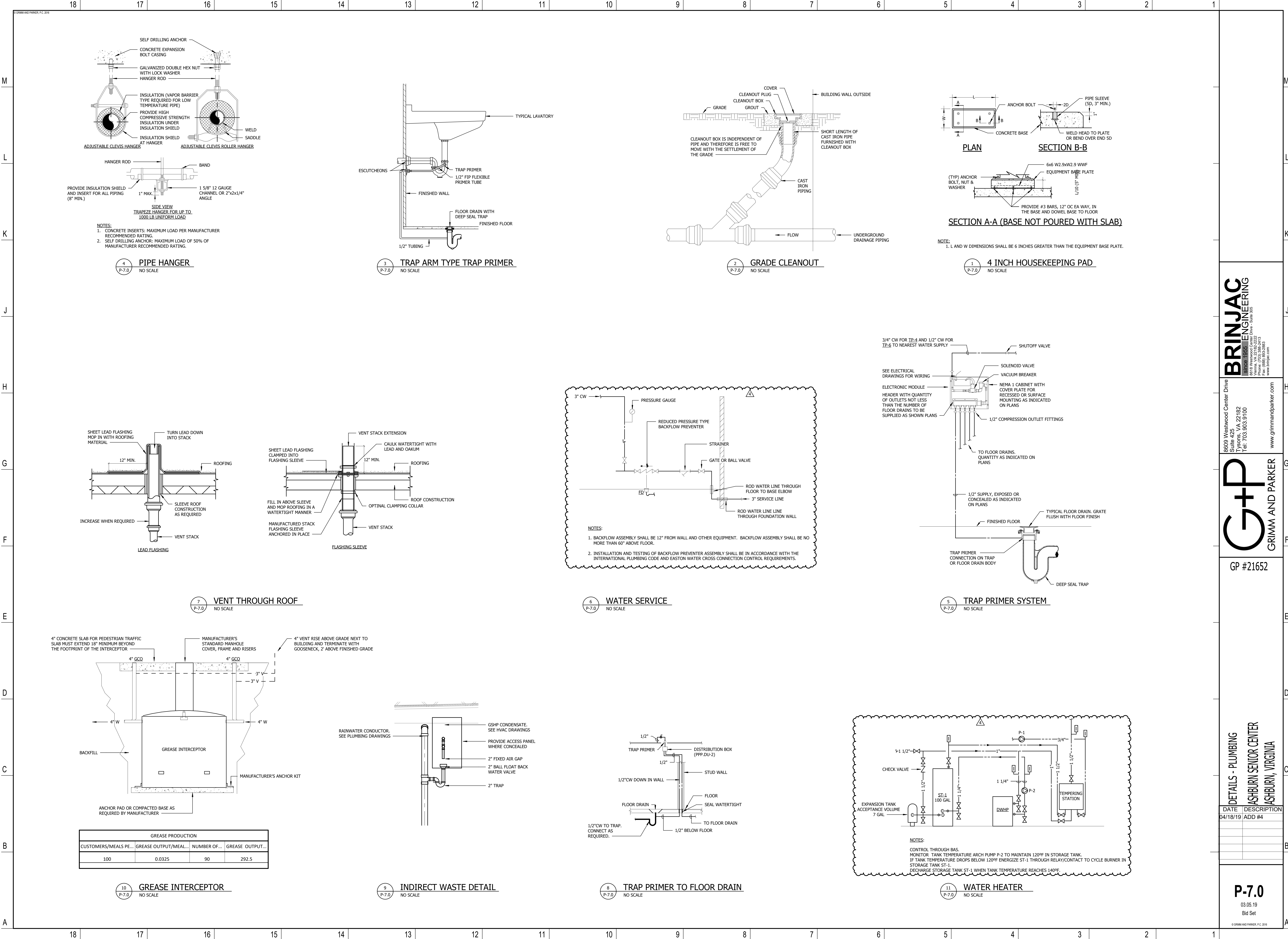
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SCHEDULES - PLUMBING
ASHBURN SENIOR CENTER
ASHBURN, VIRGINIA

DATE	DESCRIPTION
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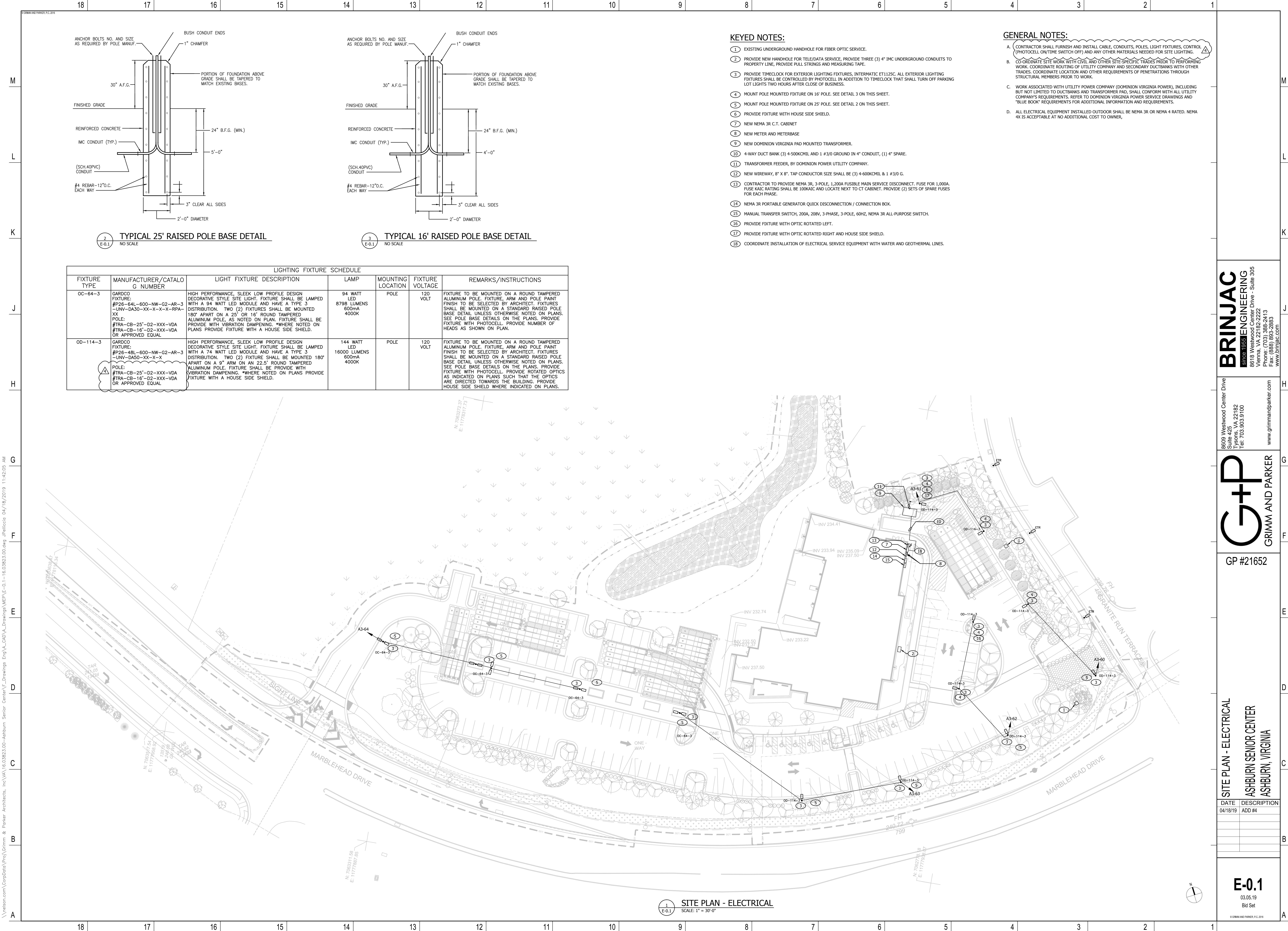
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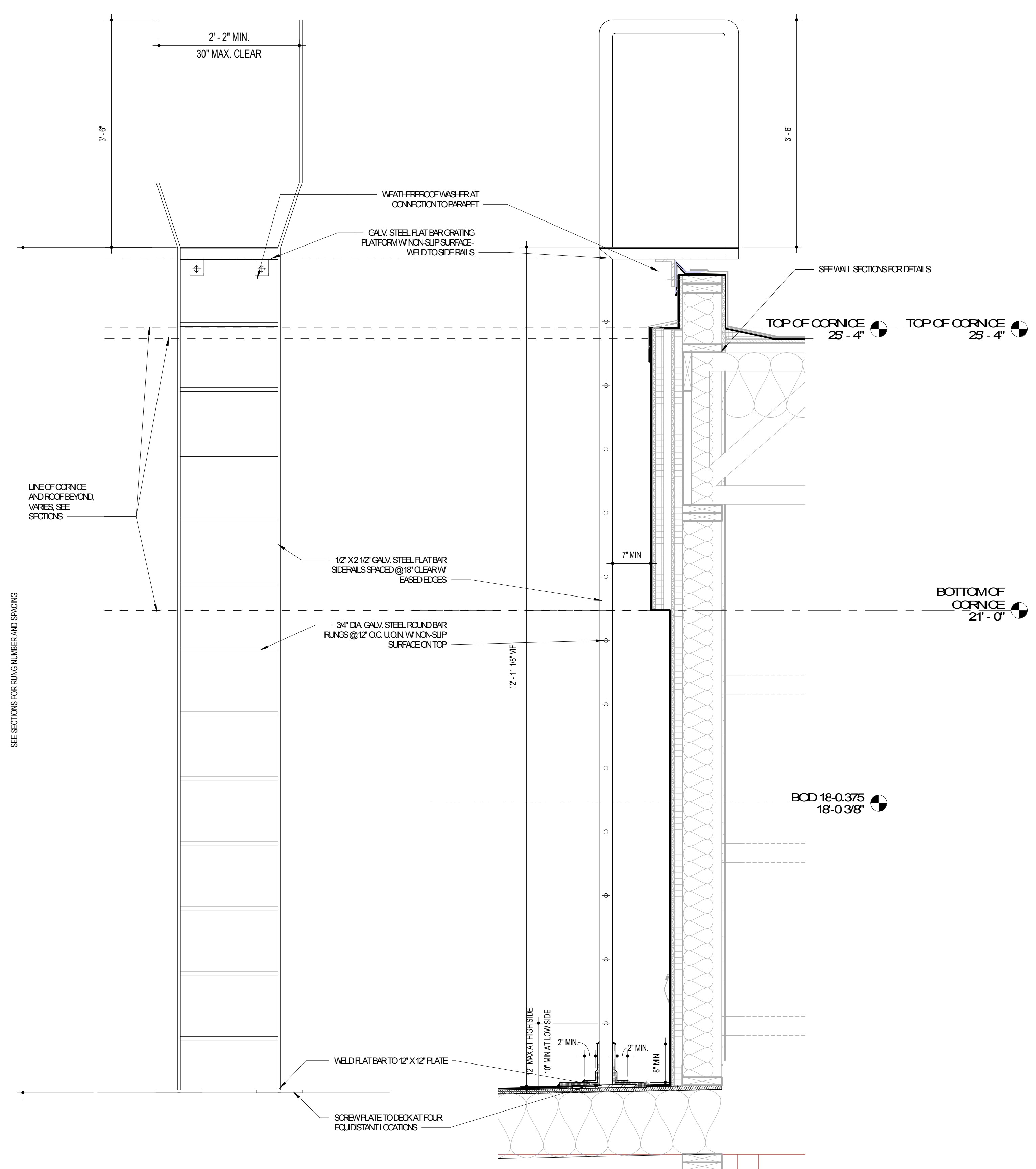
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DETAILS - PLUMBING
ASHBURN SENIOR CENTER
ASHBURN, VIRGINIA

DATE	DESCRIPTION
04/18/19	ADD #4

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03.05.19
Bid Set



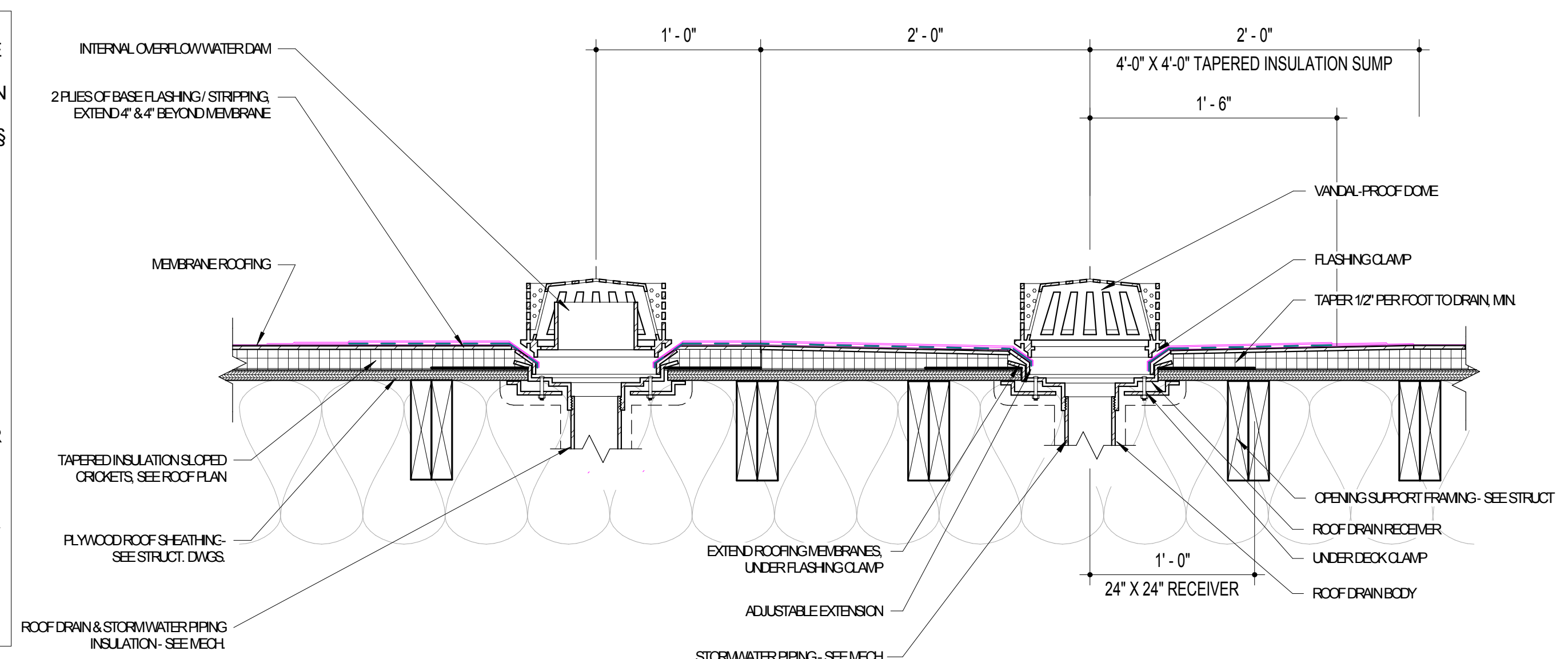


E17 ROOF LADDER ELEVATION 1" = 1'-0"

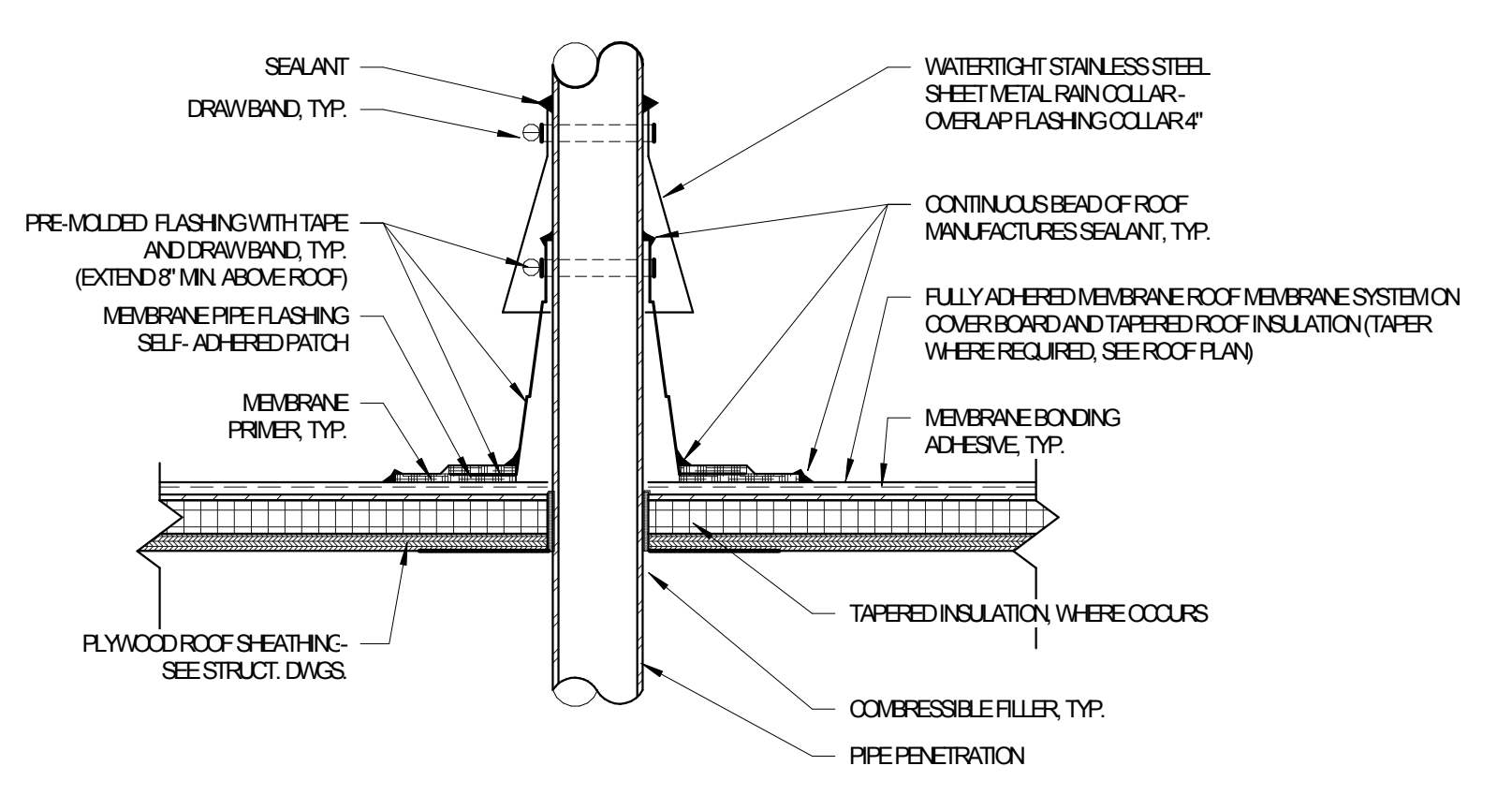
E14 SECTION - ROOF LADDER 1" = 1'-0"

NOTE: VECO REQUIRES F-25 CONTINUOUS INSULATION ABOVE ROOF DECK OR R-38 INSULATION WITH MIN. 1" SPACE INSULATION THICKNESS MAY BE REDUCED NOT MORE THAN 1" IN PER VECO'S 402.22 EXCEPTION #1 PROVIDED THE AREA-WEIGHTED U-FACTOR IS EQUIVALENT TO THE SAME ASSEMBLY WITH THE MINIMUM REQUIRED R-VALUE OVER THE ENTIRETY OF THE ROOF. CONTRACTOR SHALL PROVIDE CALCULATIONS VERIFYING VECO COMPLIANCE.

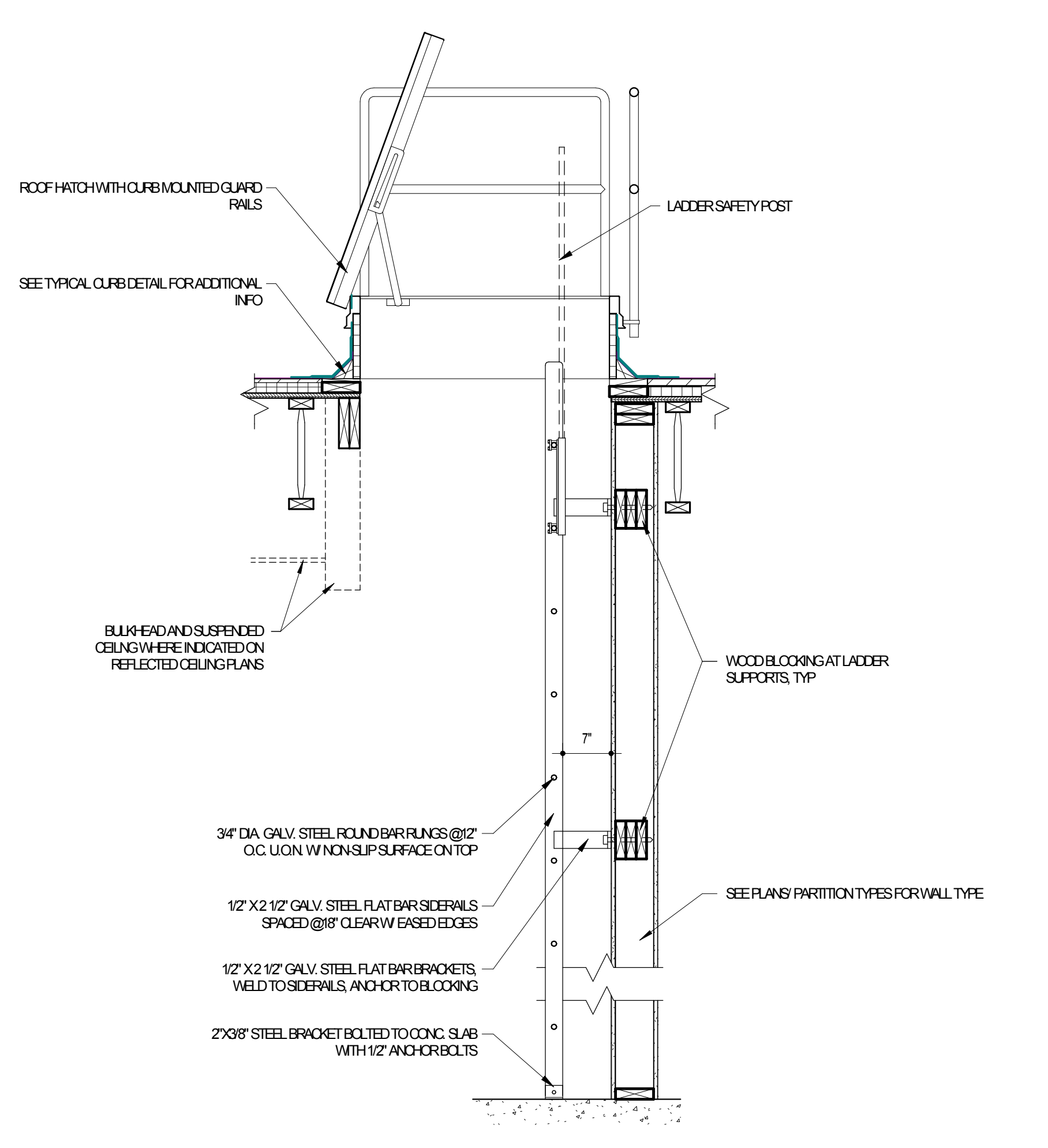
EXTEND ROOFING MEMBRANE UNDER ROOF DRAINS CLAMPING RING. SET CAST IRON ROOF DRAIN ONLY ON DRAIN RECEIVER AND SECURE TO ROOF CONSTRUCTION WITH DECK CLAMP ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR PLANS AND LOCATIONS OF DRAIN/SUMP AREAS. SEE PLUMBING DRAWINGS AND SPECIFICATIONS FOR ROOF DRAIN TYPES AND SIZES.



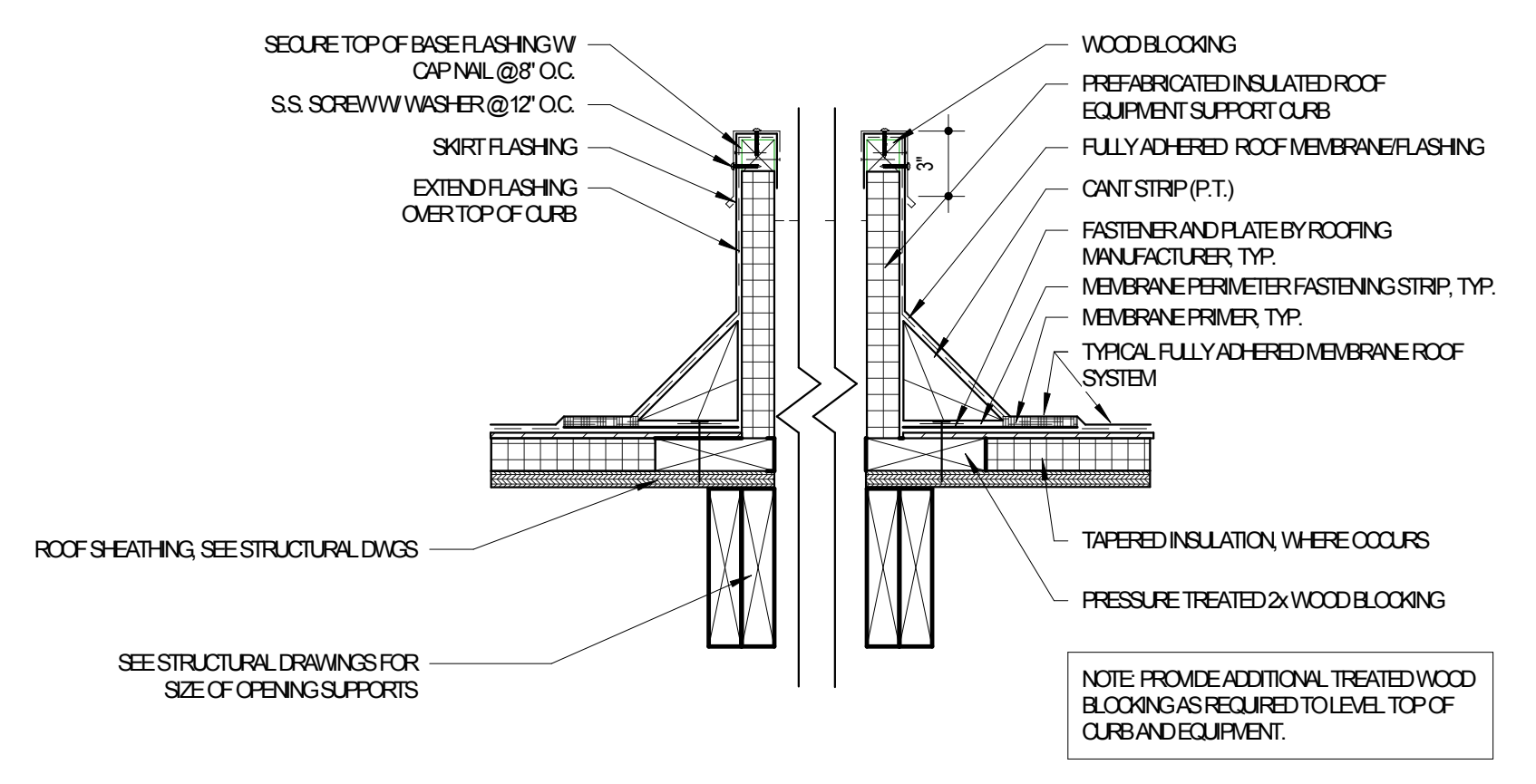
A18 TYP. ROOF DRAIN / OVERFLOW DRAIN DETAIL WOOD ROOF SHEATHING 1 1/2" = 1'-0"



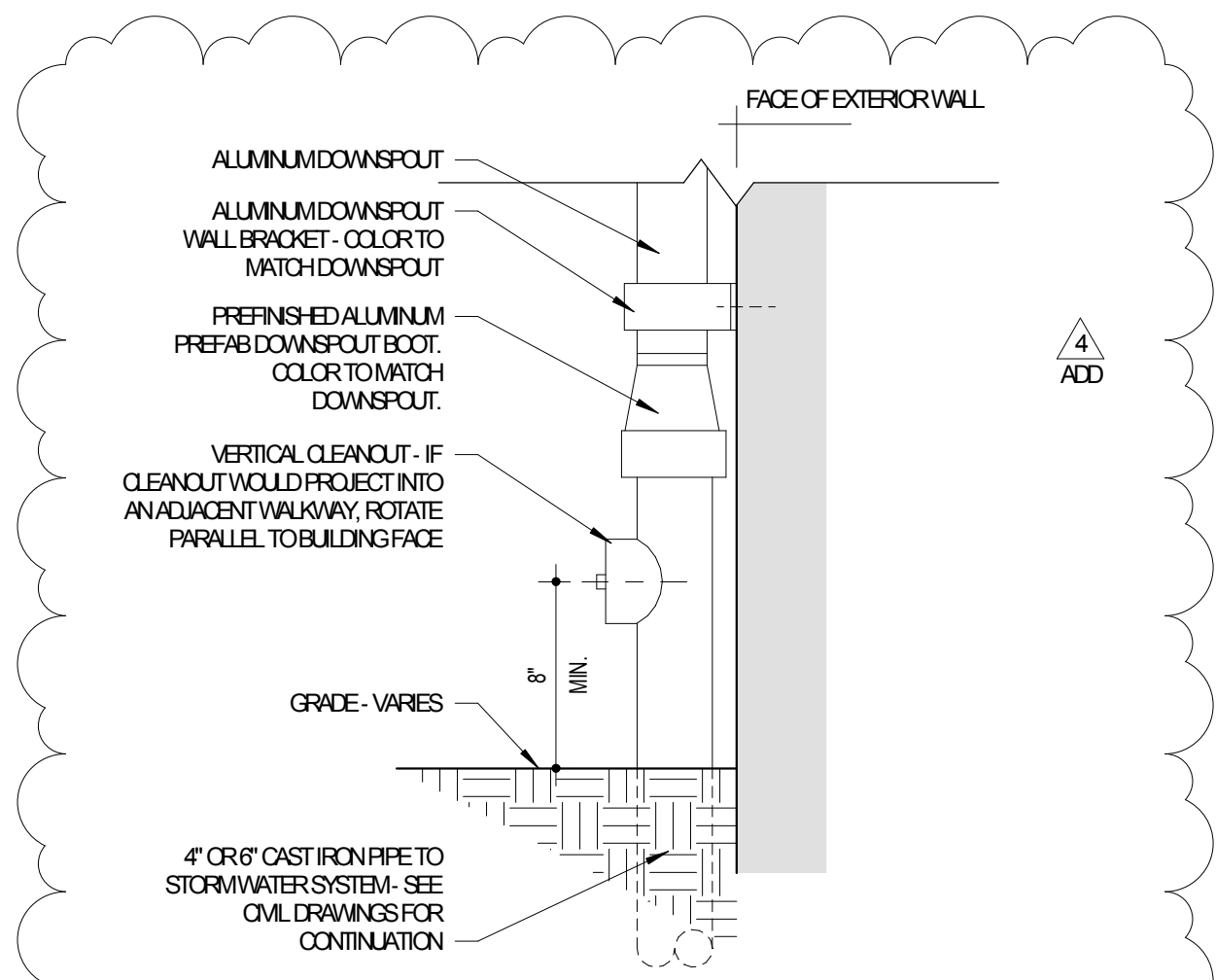
A9 TYPICAL ROOF VENT FLASHING DETAIL 1 1/2" = 1'-0"



H5 DETAIL - ROOF HATCH 3/4" = 1'-0"

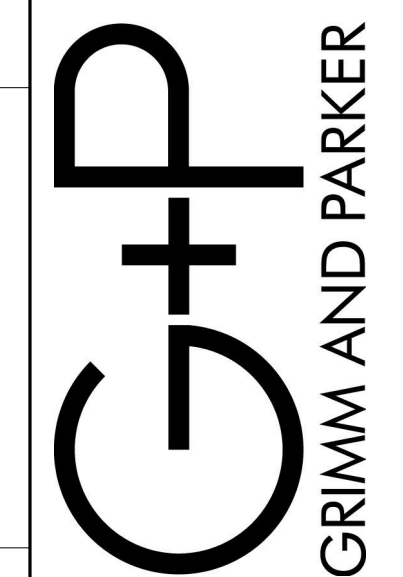


D5 TYPICAL CURB DETAIL WOOD ROOF SHEATHING (MEMBRANE) 1 1/2" = 1'-0"



A4 DOWNSPOUT BOOT DETAIL 1 1/2" = 1'-0"

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GP #21652

ROOF DETAILS	
DATE	DESCRIPTION
4/18/2019	Addendum 4
