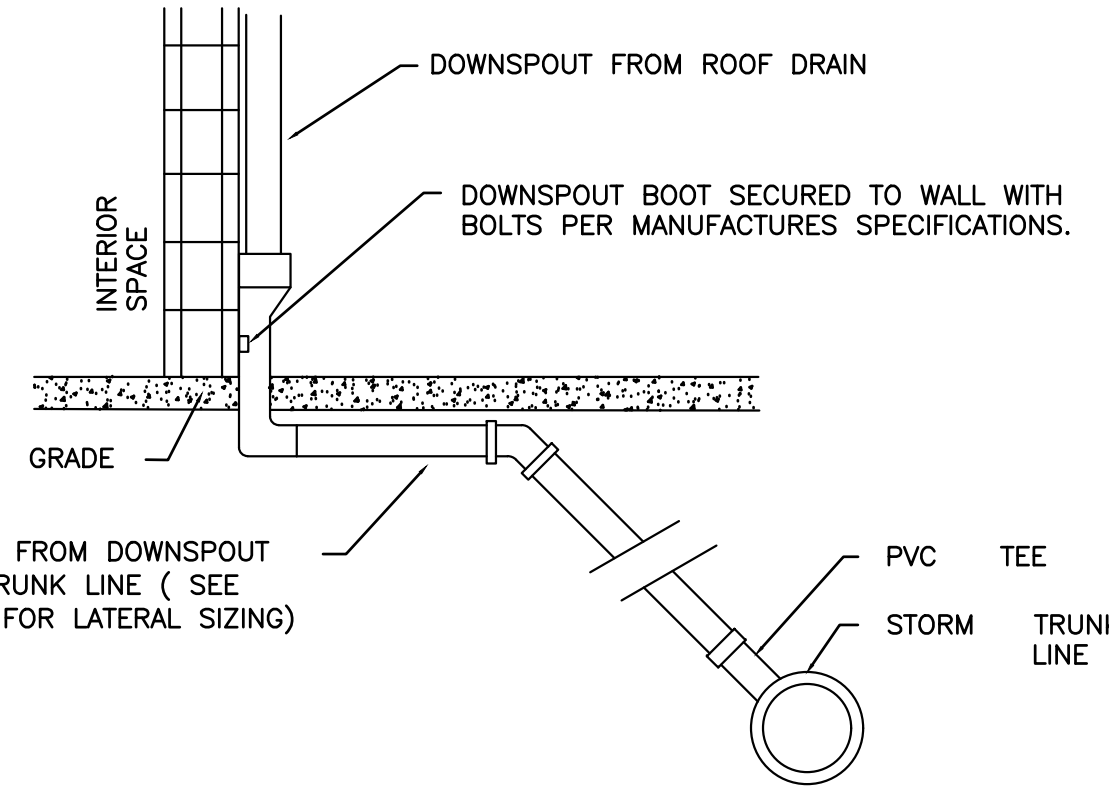
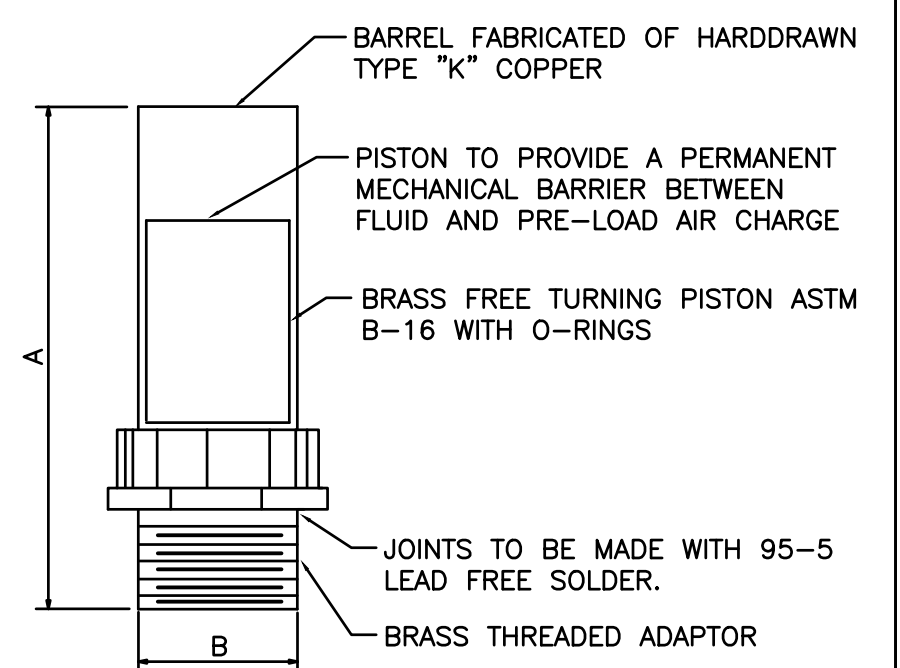


PLUMBING FIXTURE SCHEDULE							
PROJECT	BONNEVILLE SHELL SPACE						
DATE	12/20/2017						
NOTES:	1. COORDINATE COLOR OPTIONS W/ ARCHITECTURAL SHEETS PRIOR TO ORDERING. PRICE AS STANDARD COLOR OPTIONS. 2. MANUFACTURERS SHOWN ARE THE BASIS FOR DESIGN, OR APPROVED EQUAL.						
FIXTURE TAG	DESCRIPTION & ACCESSORIES	MANUFACTURER	MODEL NUMBER	WASTE	VENT	CW	HW
DSB	DOWNSPOUT BOOT, TRANSITION FROM SQUARE TO ROUND 4X8 CAST IRON BODY	BARRYCRAFT	B25A				
WHY	WALL HYDRANT, ENCASED, NON FREEZE, FLUSH WALL, NICKEL BRONZE BOX WITH HINGED, LOCKED COVER	ZURN	Z1305			3/4"	
ECO	EXTERIOR CLEAN OUT, HEAVY DUTY ROUND SCORATED NICKEL BRONZE TOP, PROVIDE 18"x4" CONCRETE COLLAR	ZURN	ZN-1406		VARIES		
FCO	FLOOR CLEAN OUT, POLISHED BRONZE, COORDINATE FLOORING MATERIALS WITH FINAL FINISHES	ZURN	ZB-1400		VARIES		
PDI	WATER HAMMER ARRESTOR	WATTS	15M2			VARIES	VARIES



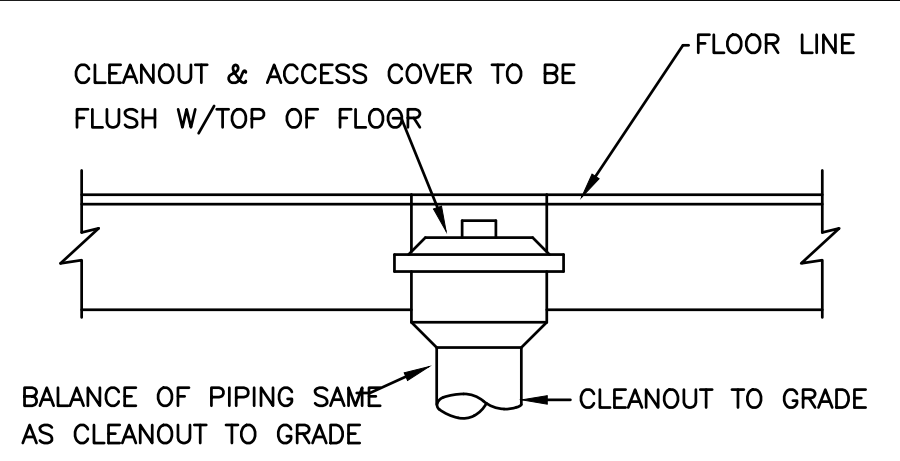
DOWNSPOUT BOOT INSTALLATION DETAIL
NOT TO SCALE



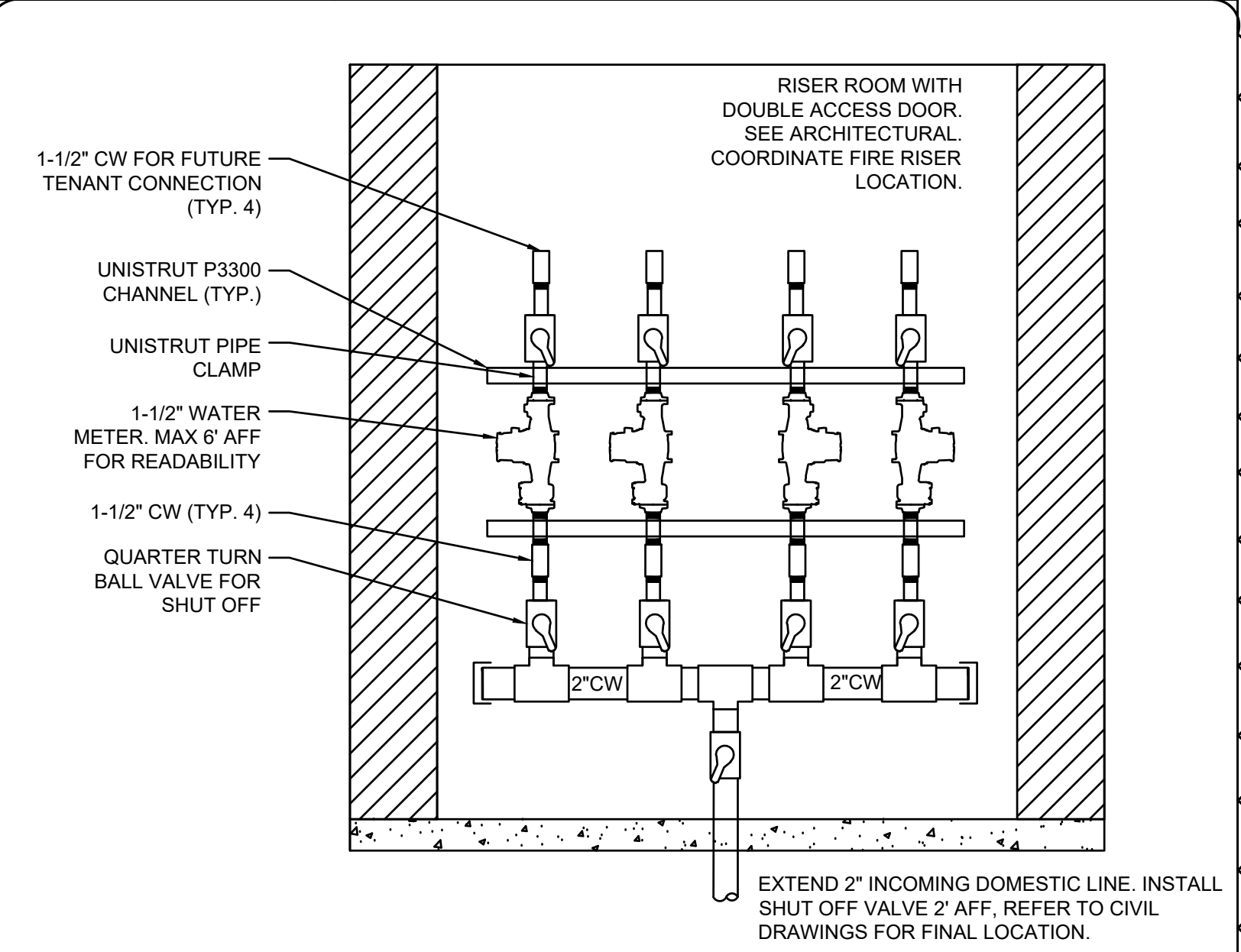
PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1 - 1/4"	C	33 - 60	7"	1 - 1/4"
1 - 1/2"	D	61 - 113	7"	1 - 1/2"
2"	E	114 - 154	9"	1 - 1/2"
2"	F	155 - 330	9"	2"

NOTES: 1)SEE WATER RISER DIAGRAMS FOR LOCATIONS OF SHOCK ABSORBERS.
2)WATER HAMMER ARRESTOR SHALL BE BY MANUFACTURER APPROVING INSTALLATION REQUIRING ZERO ACCESS.

WATER SHOCK ARRESTOR DETAIL
NOT TO SCALE



FLOOR CLEANOUT DETAIL
NOT TO SCALE

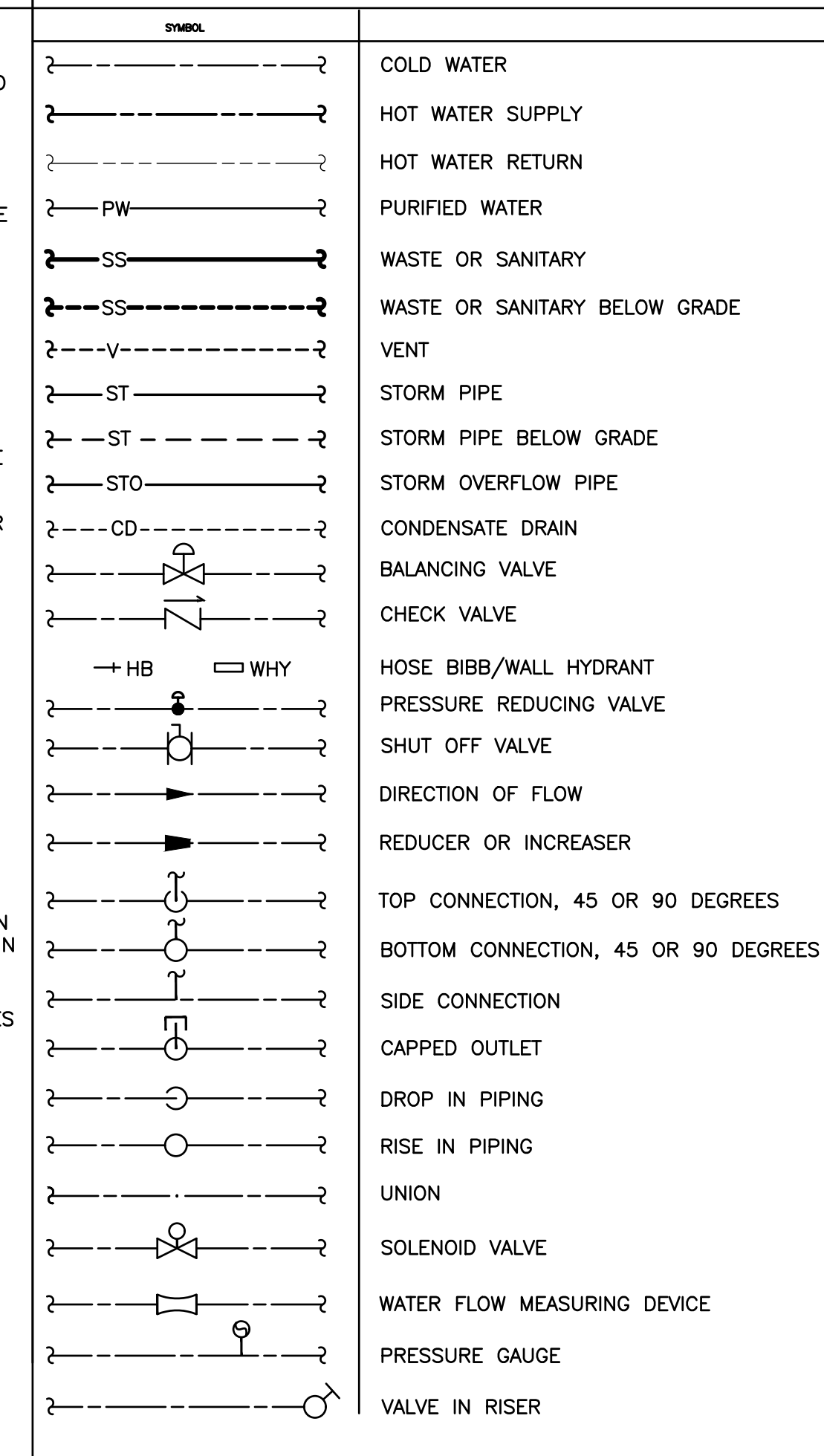


DOMESTIC RISER AND SUBMETER DETAIL
NOT TO SCALE

GENERAL NOTES - PLUMBING

- CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- CONTRACTOR SHALL VERIFY AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALLED ON THE SITE.
- ALL SANITARY PIPING 3" AND LARGER SHALL HAVE A 1/8" PER FOOT. ALL SANITARY PIPING SMALLER THAN 3" SHALL HAVE A SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED.
- VENT PIPING SHOWN ON FLOOR PLANS IS ONLY INDICATIVE EXCEPT FOR VTR LOCATIONS.
- VALVES AND FITTINGS SHALL BE OF SAME SIZE OF LINE ON WHICH THEY ARE LOCATED.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL PIPING SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY-FABRICATED, INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201.
- AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING PENETRATIONS.
- ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OTHERWISE.
- ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMER AND FITTINGS UNLESS NOTED OTHERWISE.
- ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURES, MOUNTING HEIGHTS, AND DIMENSIONS.
- CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
- CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL, SO THAT WALL INSULATION CAN BE PLACED ON THE EXTERIOR SIDE OF THE PIPING.
- DO NOT PENETRATE WALL FOOTINGS WITH PIPING. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER.
- PIPING SHALL ESSENTIALLY BE ROUTED AND LOCATED AS INDICATED ON THE DRAWINGS; HOWEVER, ACTUAL PLACEMENT SHALL BE VERIFIED BY CONFIRMING EXACT LOCATION OF STRUCTURES AND OTHER UTILITIES IN THE FIELD AND BY CAREFUL LAYOUT PRIOR TO EXECUTION OF THE WORK. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND PIPING SHALL BE CONCEALED EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
- HOT AND COLD WATER SUPPLY PIPES AND DRAIN PIPES UNDER HANDICAPPED LAVATORIES SHALL BE INSULATED PER AMERICANS WITH DISABILITIES ACT, WITH FACTORY PREFABRICATED MICROBIAL PVC RESIN SEAMLESS INSULATION. BASIS OF DESIGN: ZURN INDUSTRIES, INC.
- WALL BRACKETS, HANGERS, SUPPORTS, ETC. SHALL BE PROVIDED WHERE REQUIRED IN ACCORDANCE WITH THE BEST STANDARD PRACTICE OF THE TRADE AND AS PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED TO TRANSMIT LOADS TO THE MAIN STRUCTURE WHERE REQUIRED. CPVC PIPING SUPPORTS SHALL BE 3"-0" ON CENTER FOR 1/2" THRU 1" AND 4"-0" ON CENTER FOR 1-1/2" OR LARGER. ALL EXPOSED SUPPORTS SHALL BE HOT DIPPED GALVANIZED OR FIBERGLASS REINFORCED "UNISTRUT" TYPE INCLUDING HARDWARE.
- STORM WATER, SANITARY, VENT AND WASTE PIPING SHALL BE COLLECTED AND TERMINATED AT A POINT SHOWN ON THE DRAWINGS. PIPING SHALL BE SCHEDULE 40 PVC-DWV WITH SOLVENT JOINTS. PROVIDE ASJ FIBERGLASS INSULATION TO MEET PLENUM RATING IN ALL CEILING RETURN AIR PLENUMS.
- BUILDING DOMESTIC WATER PIPING (ABOVE FLOOR) SHALL BE HARD COPPER TUBING, ASTM B-88 TYPE L & M, WATER TUBE, DRAWN TEMPER. COPPER PRESSURE FITTINGS WITH SOLDERED JOINTS. PIPING 2" AND LARGER SHALL HAVE GROOVED END FITTINGS, KEVED COUPLINGS AND GROOVED JOINTS. ALL PIPING SHALL BE WATERTIGHT WHEN FINISHED. INSULATE HOT WATER LINES WITH 3/4" CELLULAR ELASTOMERIC INSULATION.
- BALL VALVES 1/4" THROUGH 2" SHALL BE TWO PIECE - 600 WOG, TEFLON SEATS, ANSI 316 STAINLESS STEEL BALL AND STEM (EXTENSION STEM ON INSULATED HOT WATER AND TEMPERED HOT WATER), BRONZE BODY WITH THREADED OR SOLDER END.

SYMBOLS

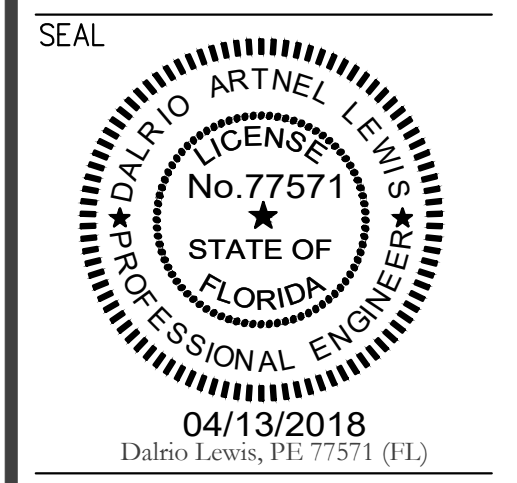


PLUMBING ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
ACW	AUTOMATIC CLOTHES WASHER
ADA	AMERICANS WITH DISABILITIES ACT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AST	AUTOMATIC SPRAY TAN UNIT
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BWV	BACKWATER VALVE
C/I	CONTRACTOR INSTALLED
CD	CONDENSATE CONNECTION
CONN	CONTINUOUS
CONT	CHECK VALVE
CV	COLD WATER
DFU	DRAINAGE FIXTURE UNIT
DN	DOWN
DIA	DIAMETER
DN	DOWN
DSB	DOWN SPOUT BOOT
DWG	DRAWING
ECO	EXTERIOR CLEAN OUT
F	DEGREES FAHRENHEIT
FBC	FLORIDA BUILDING CODE
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
GAL	GALLONS
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HR	HOUR
HW	HOT WATER
IR	INDIRECT RECEPTOR
MAX	MAXIMUM
MIN	MINIMUM
MX	MIXING VALVE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
O/F	OWNER FURNISHED
PD	PUMP DISCHARGE
PDI	PLUMBING DRAINAGE INSTITUTE
PSIG	POUNDS PER SQUARE INCH
RM	ROOM
RCP	RE-CIRCULATING PUMP
SPC	STANDARD PLUMBING CODE
T & P	TEMPERATURE & PRESSURE
TPV	TRAP PRIMER VALVE
TYP	TYPICAL
U/G	UNDERGROUND
W/	WITH
WCO	WALL CLEAN OUT
WFO	WATER FIXTURE UNITS

REVISIONS:

1	4/13/2018
2	
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BONNEVILLE DRIVE - PLUMBING		
Number	Sheet Name	%
P-0	PLUMBING GENERAL INFORMATION	X
P-1	PLUMBING DOMESTIC AND SANITARY PLAN	X
P-2	PLUMBING STORM WATER PLAN	X

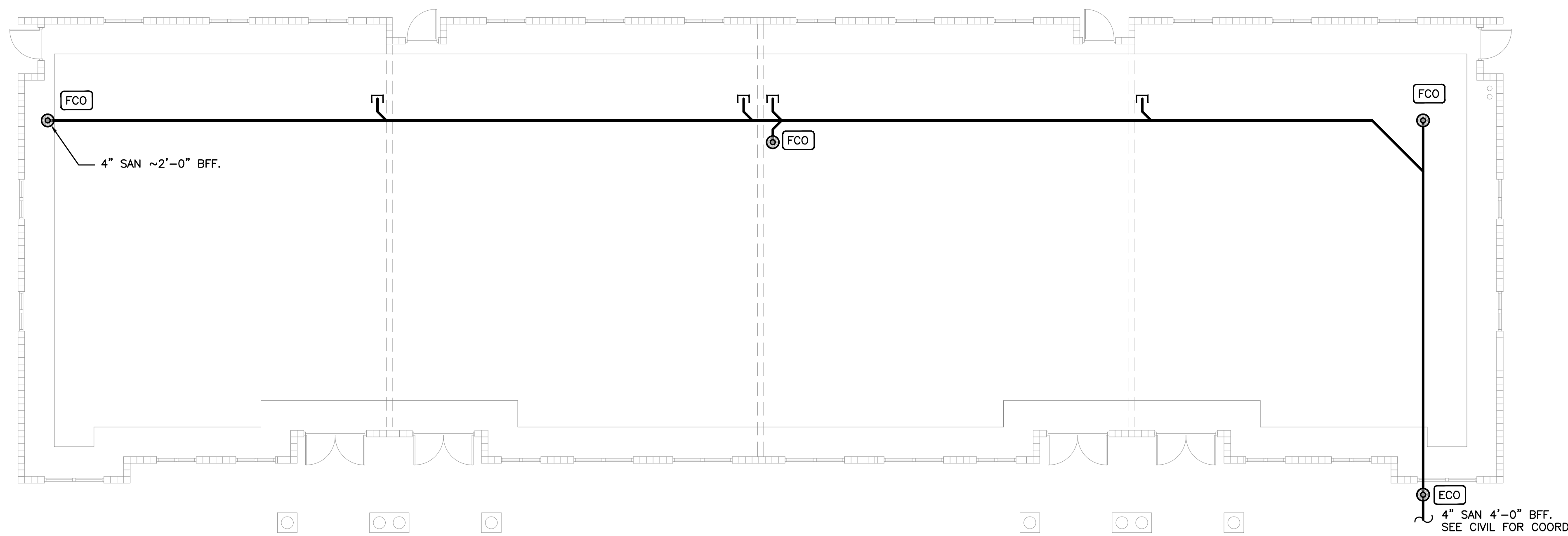
DATE: 01/24/2018
PROJECT: 160202
DRAWN BY: BK
CHECKED BY: DL
SHEET 1 OF 3

A PROPOSED DARK SHELL FOR:
BONNEVILLE DR PROP OFFICE BLDG.
1716, 1718, AND 1720 BONNEVILLE DR
ORLANDO, FLORIDA



5323 Millenia Lakes Boulevard
Suite 300
Orlando, FL 32839
tel - 407.696.1901

P-0

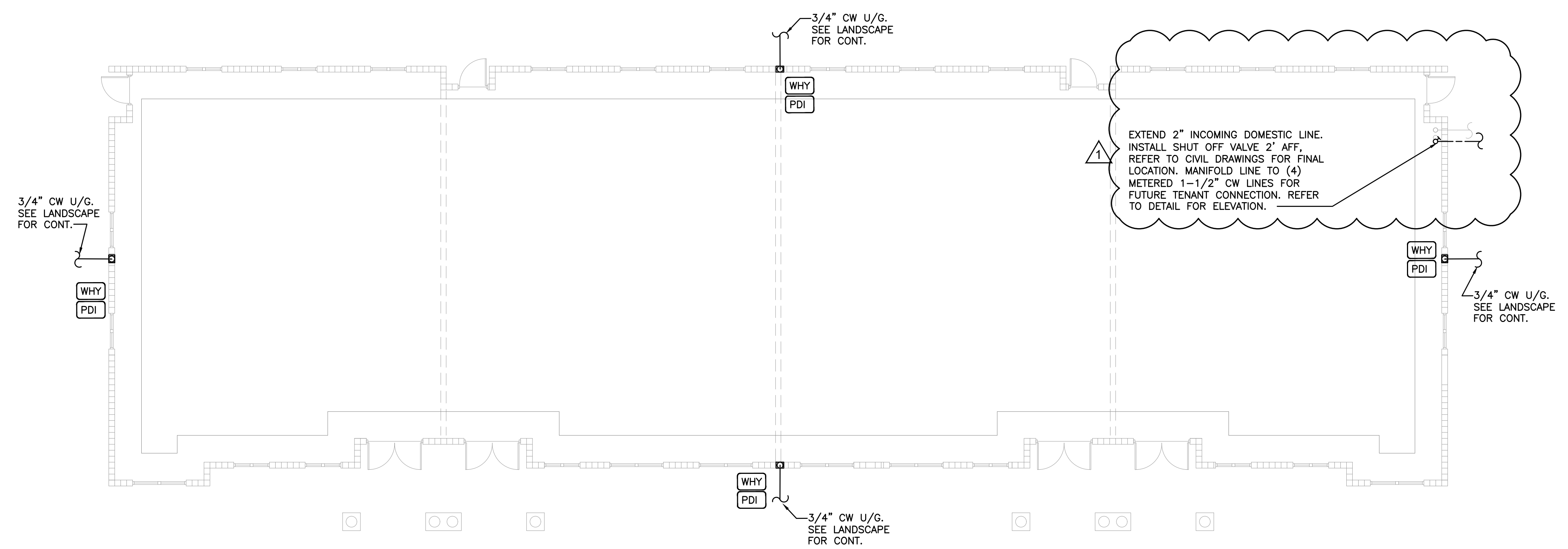


1 PLUMBING SANITARY PLAN

0 4' 8' 16' 24'

1/8" = 1'-0"

NORTH



2 PLUMBING DOMESTIC PLAN

0 4' 8' 16' 24'

1/8" = 1'-0"

NORTH

REVISIONS:

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SEAL

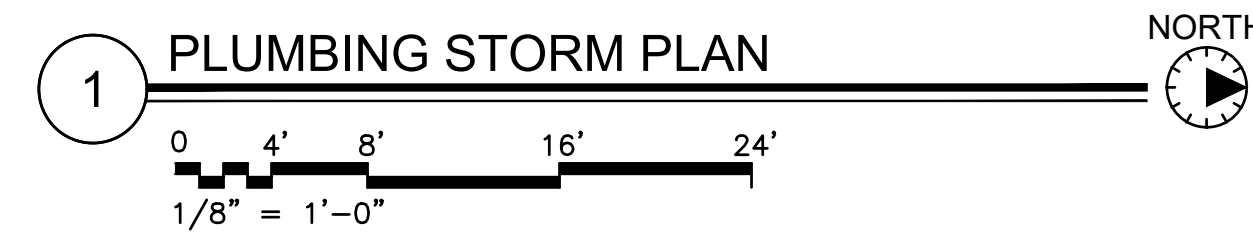
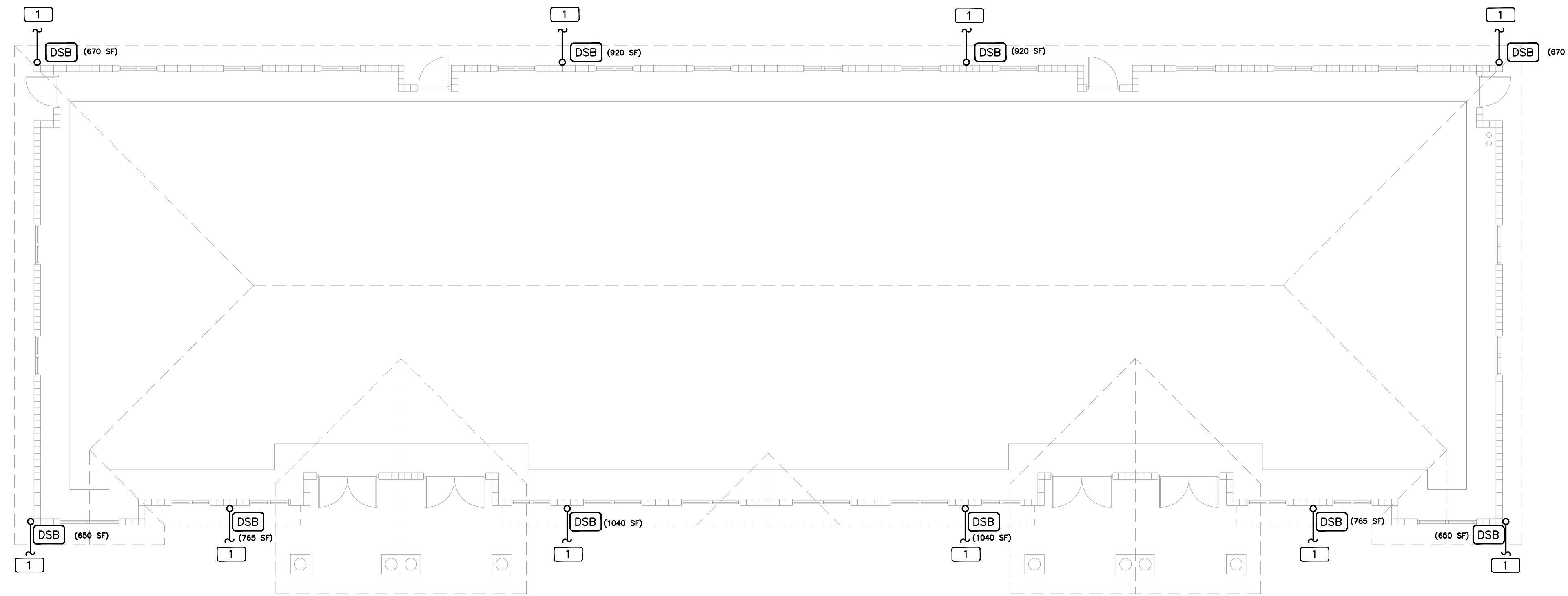
04/13/2018
 Dalrio Lewis, PE, 77571 (FL.)

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SHEET	2 OF 3

KEY PLAN NOTES

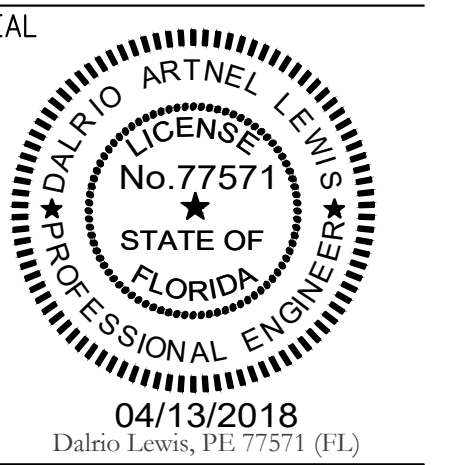
1 4" STORM LINE AT ~2'-0" BFF. SEE CIVIL FOR CONT.



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 SHEET 3 OF 3