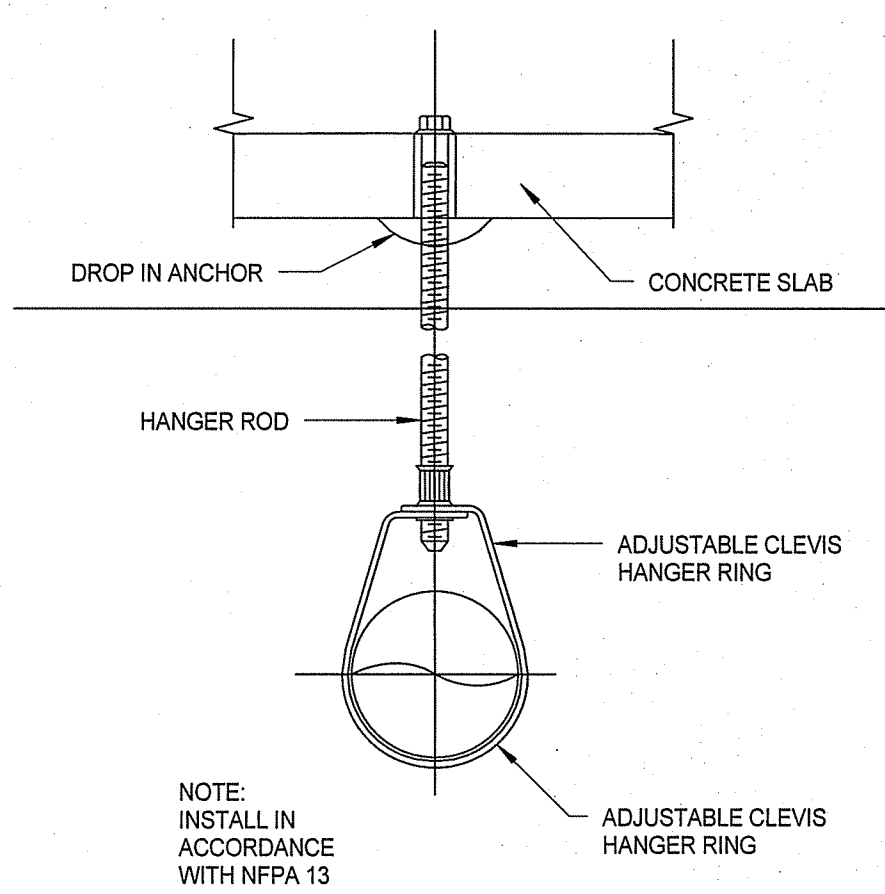
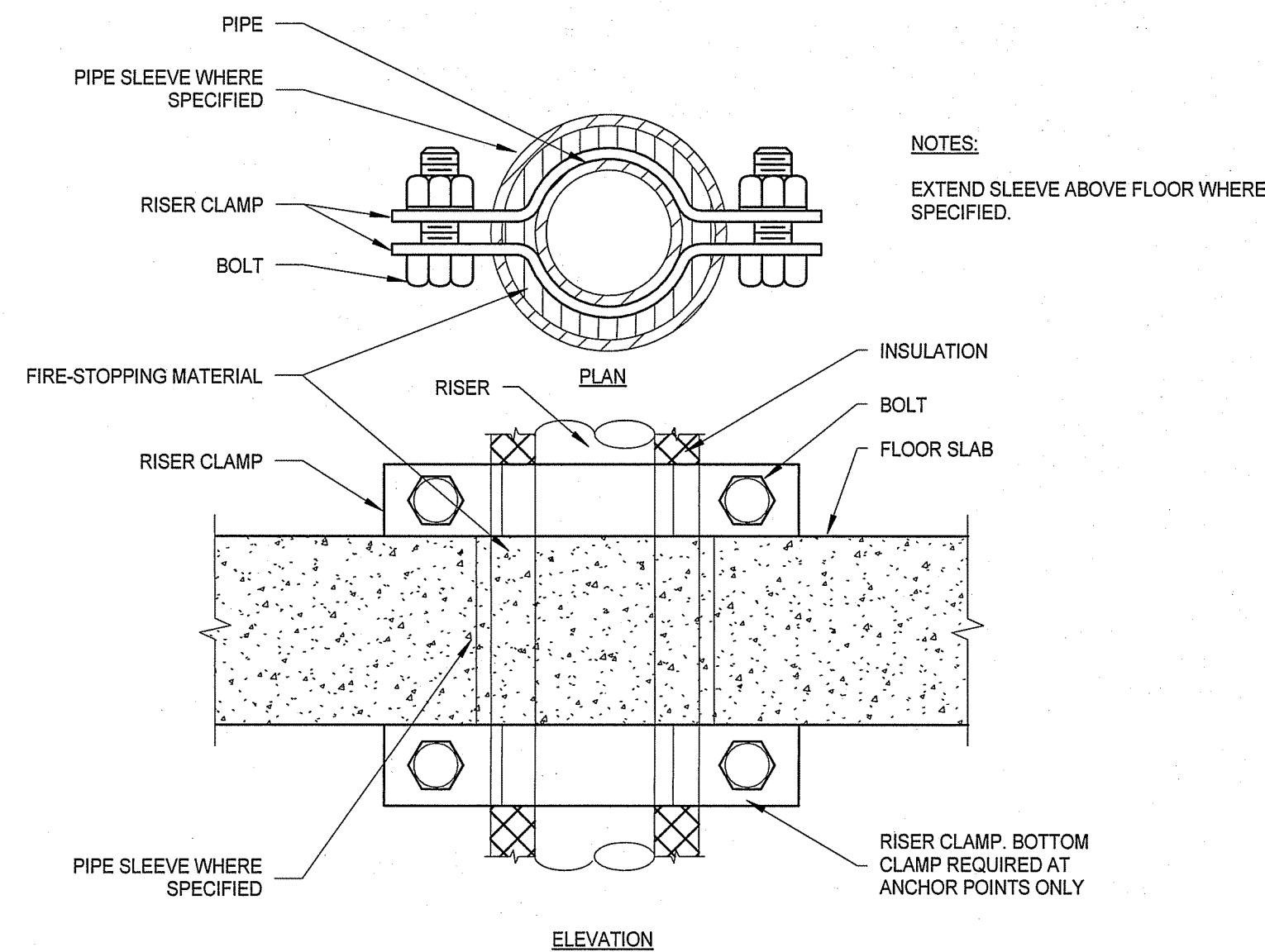


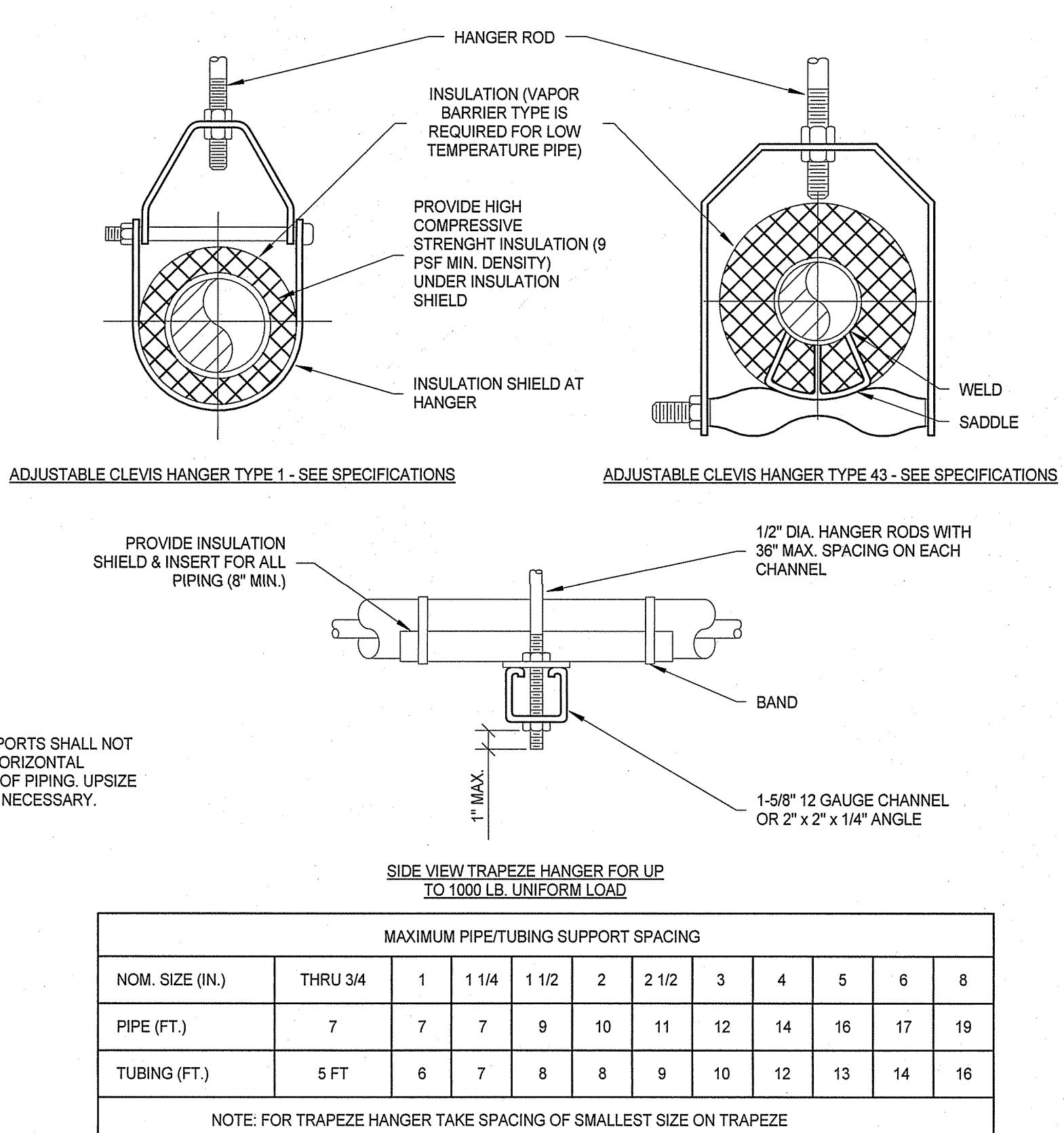
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



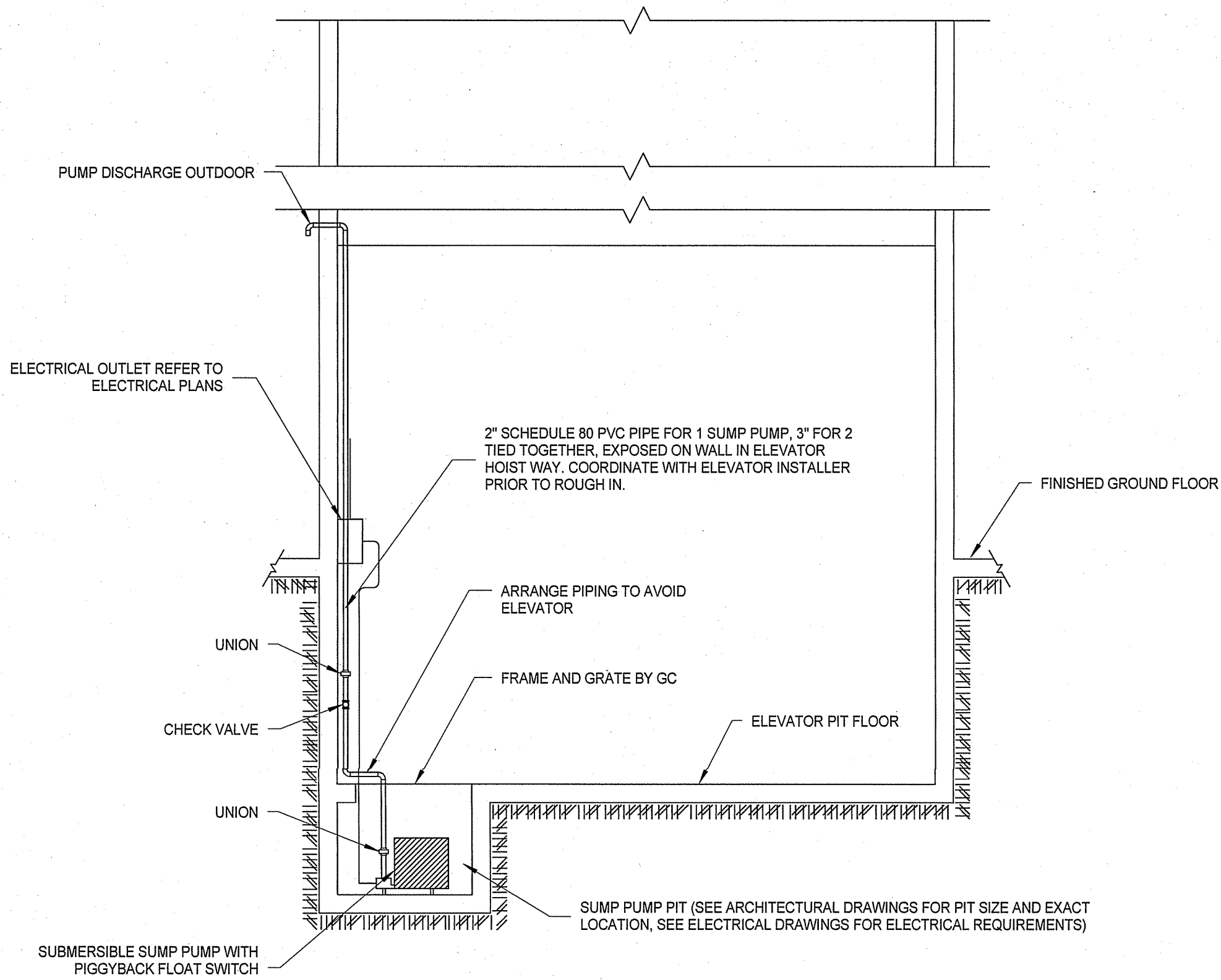
1 CONCRETE PIPE HANGER DETAIL
P1001 / N.T.S.



2 SUPPORT/ANCHOR FOR PIPE RISERS
P1001 / N.T.S.



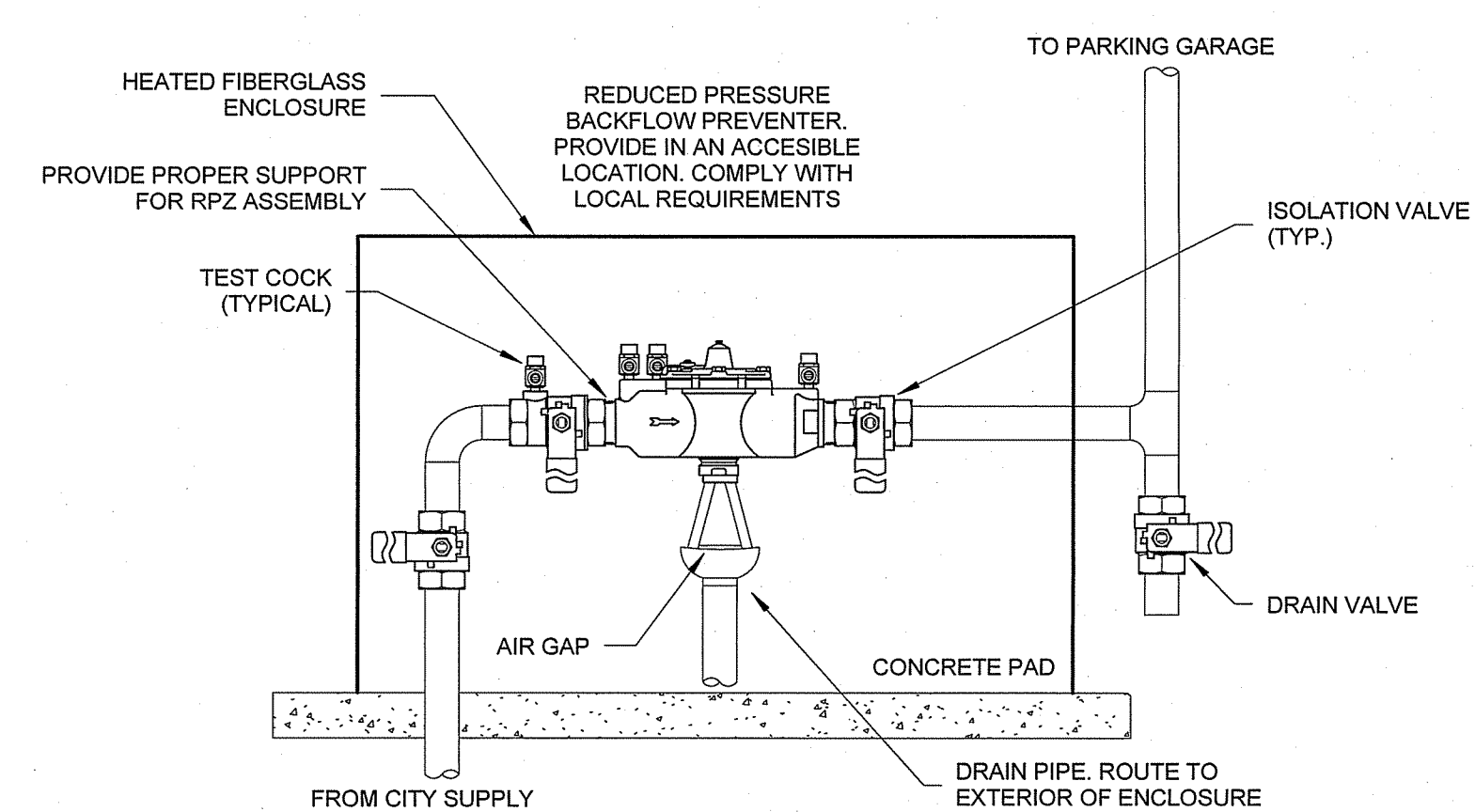
3 PIPE HANGERS
P1001 / N.T.S.



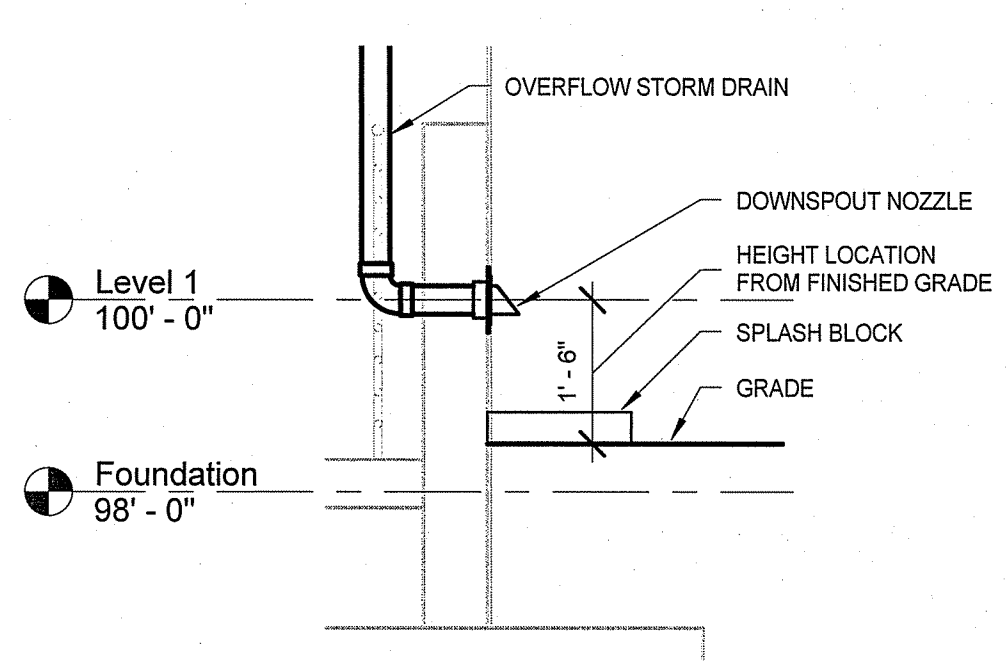
4 SUMP PUMP DETAIL
P1001 / N.T.S.

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS							SHOW ON GRAPHIC
	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM		
PUMP ALARM STATUS			X							X		
TOTALS	0	0	1	0	0	0	0	0	0	1		0
TOTAL HARDWARE (1)					TOTAL SOFTWARE (1)							

SUMP PUMP CONTROL SEQUENCE:
ON WATER RISE, THE PUMP WILL ACTIVATE WHEN THE FLOAT RISES ABOVE THE "HIGH LIMIT" LEVEL. PUMP WILL REMAIN ON UNTIL THE WATER LEVEL IS BELOW THE "LOW LIMIT". WHEN THE "OFF" FLOAT NO LONGER SENSES WATER IT TURNS THE PUMP OFF.



5 RPZ INSTALLATION DETAIL
P1001 / N.T.S.



7 DOWNSPOUT NOZZLE DETAIL
P1001 / N.T.S.

PLUMBING GENERAL NOTES

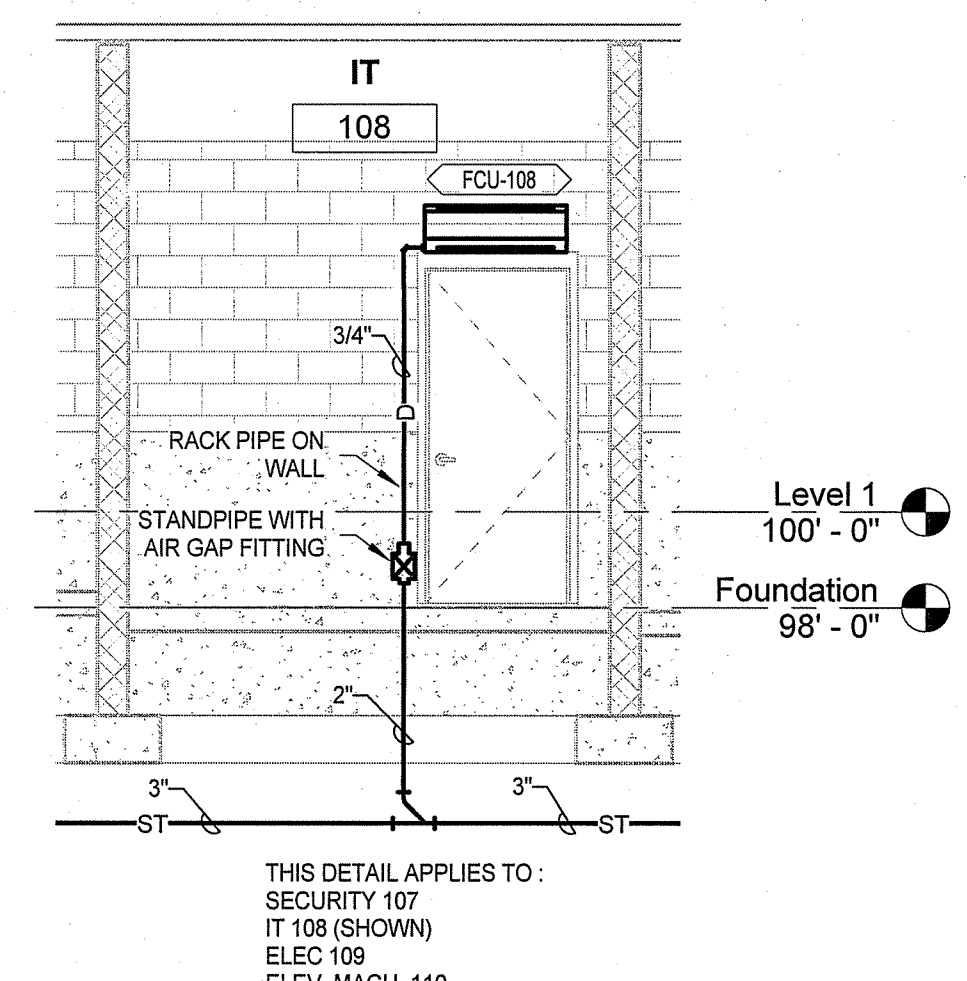
- THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH ALL PROJECT SPECIFICATIONS AND ALL VA STANDARDS. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC FOR A COMPLETE WORKING PLUMBING SYSTEM.
- THE PLUMBING CONTRACTOR SHALL COMPLY WITH ALL VA PERMIT AND INSPECTION PROCEDURES REQUIRED FOR THIS WORK.
- CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER IN ADVANCE. SEE SPECIFICATION SECTION 01 00 00 FOR SPECIFIC TIME FRAME REQUIREMENTS.
- ALL DOMESTIC PIPING SHOWN IS LOCATED OVERHEAD OR MOUNTED ON THE WALLS UNLESS NOTED OTHERWISE.
- ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY ALL VA STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- ALL PIPING PENETRATIONS THRU NEW OR EXISTING WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE NEW OR EXISTING WALL OR FLOOR.
- ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED.
- THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING PIPING WITH ALL STRUCTURAL COMPONENTS.
- THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED AS REQUIRED.
- MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES, AND PATTERNS AS THE BASIS OF DESIGN. PRODUCTS OF AUTHORIZED EQUAL MANUFACTURERS EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS IN EVERY RESPECT MAY BE ACCEPTABLE WITH SUBMITTAL OF A COMPLETED SUBSTITUTION REQUEST CONTAINING ALL PRODUCT DATA, TESTING AND ACTUAL SAMPLES AND UPON APPROVAL IN WRITING BY CONTRACTING OFFICER.

PLUMBING LEGEND

—ST—	STORM DRAIN (ST)
—OST—	OVERFLOW STORM DRAIN (OST)
—SAN—	SANITARY
- - - - -	DOMESTIC COLD WATER PIPING (COW)
—○—	PIPE TURNS UP
—○—	PIPE TURNS DOWN
—	CONTINUATION

PLUMBING ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT
FFE	FINISHED FLOOR ELEVATION
AFF	ABOVE FINISHED FLOOR
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
CDW	DOMESTIC COLD WATER
FCO	FLOOR CLEANOUT (FLOOR OR SLAB)
FD	FLOOR DRAIN
GCO	GRADE CLEANOUT
GW	GREASE WASTE
HB	HOSE BIBB
HD	HUB DRAIN
IW	INDIRECT WASTE
DHW	DOMESTIC HOT WATER
P-#	PLUMBING FIXTURE - NUMBER
P.C.	PLUMBING CONTRACTOR
V	VENT
V.T.R.	VENT THROUGH ROOF
W	WASTE
WCO	WALL CLEANOUT
GD	GARAGE DRAIN
RD	ROOF DRAIN
ORD	OVERFLOW ROOF DRAIN



8 CONDENSATE DRAIN DETAIL
P1001 1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE					
TAG	DESCRIPTION	WASTE PIPE	COLD WATER	WATER FIXTURE UNITS	REMARKS
FCO	FLOOR CLEANOUT				GREY IRON HOUSING WITH CLAMPING DEVICE
GD-1	PARKING DECK DRAIN FOR SLABS	6"			
GD-2	PARKING DECK DRAIN FOR SLABS	3"			
GD-3	PARKING DECK DRAIN FOR SLABS	8"			
GD-4	PARKING DECK DRAIN FOR SLABS	4"			SEE SPECIFICATION SECTION 22 14 00
ORD-1	ROOF DRAIN, DOME TYPE	3"			
P-804	MILD CLIMATE WALL HYDRANT		3/4"		HOSE COUPLING THREADS ON SPOUT, INTEGRAL STOPS AND VACUUM BREAKER, WITH LOOSE KEY, LESS HANDLE
RD-1	ROOF DRAIN, DOME TYPE	3"			
RPZ-1	REDUCED PRESSURE PRINCIPLE ASSEMBLY		1"		PROVIDE AIR GAP FITTING AND INDIRECT WASTE TO OUTSIDE OF ENCLOSURE

SUMP PUMP SCHEDULE													
MARK	LOCATION	AREA SERVED	TYPE	FLUID	FLOW	HEAD	TEMP.	MIN % EFF	HP	PHASE	VOLT	SPEED CONTROL	REMARKS
SP-1	ELEV. 102	ELEV. 102	SIMPLEX	WATER	50 GPM	15 RH20	50 °F	NA	1/2	1	115	NO	[WITH HIGH WATER LIMIT ALARM. INTEGRATE ALARM WITH BUILDING AUTOMATION SYSTEM
SP-1	ELEV. 102	ELEV. 102	SIMPLEX	WATER	50 GPM	15 RH20	50 °F	NA	1/2	1	115	NO	[WITH HIGH WATER LIMIT ALARM. INTEGRATE ALARM WITH BUILDING AUTOMATION SYSTEM

REMARKS:
1. WITH OIL/WATER DISCRIMINATING FEATURE, HIGH OIL AND HIGH WATER LIMIT ALARM
2. NON AUTOMATIC SUBMERSIBLE GRINDER PUMP, WITH CONTROL PANEL
3. CONTROL PANEL: 3 PHASE SIMPLEX PUMP CONTROL PANEL 480 V, MOTOR CONTACTOR, NEMA 4X ENCLOSURE, ALARM LIGHT/HORN, PUMP RUN INDICATOR LIGHT, HOA SWITCH, DRY AUXILIARY CONTACT (ALARM STATUS), INTEGRATE DRY AUXILIARY CONTACT WITH BUILDING AUTOMATION SYSTEM

Revisions:

Date:

VA

U.S. Department of Veterans Affairs

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ARCHITECT/ENGINEERS:

PROJECT LEAD
Architect, Structural Engineer, Civil Engineer

MEP Engineer
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SUSTAINABLE ARCHITECTURE + ENGINEERING

Drawing Title
PLUMBING NOTES, LEGEND, AND DETAILS

Approved for Design Concept:
FACILITY MANAGEMENT
DIVISION MANAGER

Project Title
CONSTRUCT PARKING GARAGE
ON WEST LOT

Location
MEMPHIS, TN

Date
11/14/2016

Checked By:
DJR

Drawn By:
ORD

Project Number
15.1067

Building Number

Drawing Number
P1001

OFFICE OF FACILITIES MANAGEMENT

VA Project Number
614-319

VA U.S. Department of Veterans Affairs



BID SET						
Drawing Title FIRST FLOOR PLUMBING PLAN		Project Title CONSTRUCT PARKING GARAGE ON WEST LOT		Project Number 15.1067	OFFICE OF FACILITIES MANAGEMENT	
				Building Number		
20	Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER		Location MEMPHIS, TN		Drawing Number	VA Project Number 614-319
			Date 11/14/2016	Checked By: DJR	Drawn By: ORD	PP101

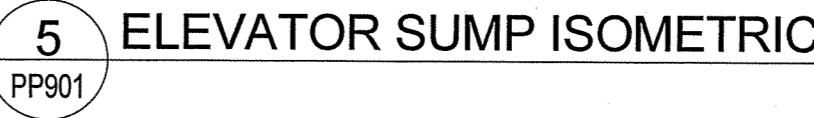
BID SET






Drawing Title SECOND FLOOR PLUMBING PLAN	Project Title CONSTRUCT PARKING GARAGE ON WEST LOT			Project Number 15.1067	OFFICE OF FACILITIES MANAGEMENT
				Building Number	
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location MEMPHIS, TN			Drawing Number PP102	VA Project Number 614-319
	Date 11/14/2016	Checked By: DJR	Drawn By: ORD		  U.S. Department of Veterans Affairs

BID SET						
Drawing Title THIRD FLOOR PLUMBING PLAN		Project Title CONSTRUCT PARKING GARAGE ON WEST LOT		Project Number 15.1067	OFFICE OF FACILITIES MANAGEMENT	
				Building Number		
20	Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER		Location MEMPHIS, TN		Drawing Number PP103	VA Project Number 614-319
					VA  U.S. Department of Veterans Affairs	
			Date 11/14/2016	Checked By: DJR	Drawn By: ORD	



WALL HYDRANT WATER PRESSURE DROP TABLE		
STARTING POINT: 80 PSI		
PRESSURE DROP PER 100' 4 PSI		
VERTICAL PRESSURE DROP (PSIFT): 0.431 PSI		
	FEET	P.D. (PSI)
LONGEST RUN	275	11
HIGHEST FIXTURE	36	15.52
TOTAL PRESSURE DROP		26.52
INITIAL PRESSURE 80 PSI - 26.52 PSI P.D. = 36.48 PSI AVAILABLE AT HIGHEST FIXTURE		



  U.S. Department of Veterans Affairs MEMPHIS VAMC 1030 JEFFERSON AVE, MEMPHIS, TN 38104				ARCHITECT/ENGINEERS: PROJECT LEAD Architect, Structural Engineer, Civil Engineer  905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN. 46204 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING		MEP Engineer APOGEE CONSULTING GROUP 1151 Kildaire Farm Rd. Suite 120 Cary, NC 27511 Tel: 919-858-7420	Functional Design CARL WALKER INC. 3211 Internet Blvd., Suite 220 Frisco, TX 75034 Tel: 469-777-5143	Drawing Title PLUMBING RISERS	Project Title CONSTRUCT PARKING GARAGE ON WEST LOT	Project Number 15.1067	Office of Facilities Management
Revisions:		Date					Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location MEMPHIS, TN		Drawing Number PP901	VA Project Number 614-319
							Date 11/14/2016	Checked By: DJR	Drawn By: ORD	