

SYMBOL



DESCRIPTION
MAIN PIPING (TYPE OF SERVICE AS SPECIFIED OR NOTED)
BELOW SLAB MAIN PIPING (TYPE OF SERVICE AS SPECIFIED OR NOTED)
BRANCH PIPING (TYPE OF SERVICE AS SPECIFIED OR NOTED)
EXISTING PIPING TO REMAIN
EXISTING PIPING TO BE REMOVED
PIPE RISE, UNLESS OTHERWISE NOTED
PIPE DROP, UNLESS OTHERWISE NOTED
BRANCH - TOP OR BOTTOM CONNECTION
RISE OR DROP IN RUN OF PIPE
BRANCH CONNECTION - SIDE
CAP ON END OF PIPE
VALVE IN VERTICAL
CLEANOUT PLUG
CONCENTRIC REDUCER
GATE VALVE (OS&Y)
CHECK VALVE
LUBRICATED PLUG VALVE
BALL VALVE
WATER METER - 2" & SMALLER
WATER METER - 3" & LARGER
REDUCED PRESSURE ZONE BACKFLOW PREVENTER 2" & SMALLER
REDUCED PRESSURE ZONE BACKFLOW PREVENTER 2 1/2" & LARGER
HOSE REEL
HOSE VALVE
FLOOR DRAIN
ROOF DRAIN
FLOOR CLEANOUT
EMERGENCY EYEWASH & SHOWER
SERVICE SINK
WALL HYDRANT
P-TRAP
HOSE BIBB
CONNECT TO EXISTING

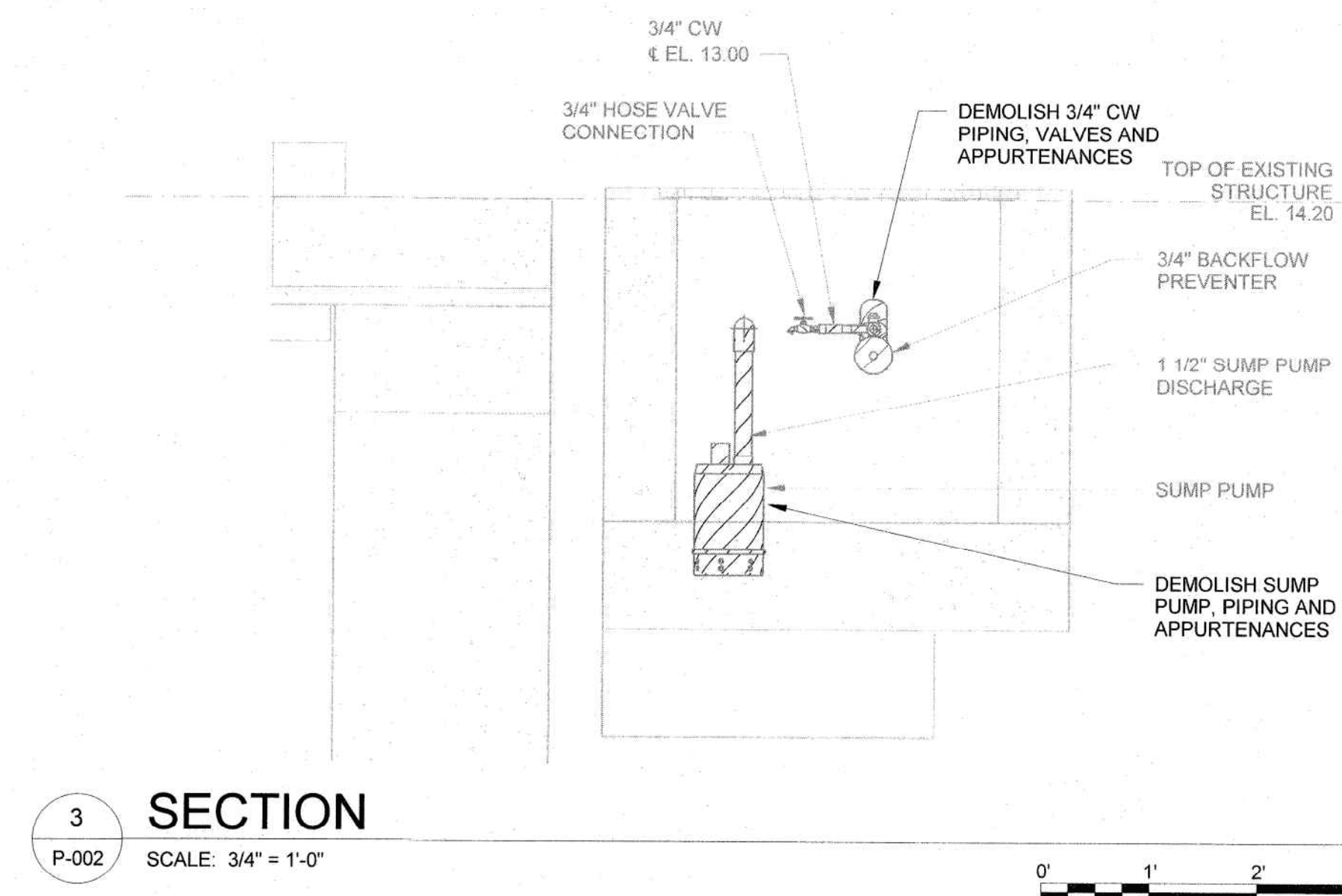
#	NUMBER
&	AND
@	AT
°	DEGREE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
CL	CENTERLINE
CLG	CEILING
CO	CLEANOUT
CODP	CLEANOUT DECKPLATE
CONN	CONNECT/CONNECTION
CONT	CONTINUATION
CW	COLD WATER
D	DIAMETER?
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV-BFP	BOUBLE CHECK VALVE BACKFLOW PREVENTER
DEG	DEGREE
DEMO	DEMOLITION
DIA	DIAMETER
DN	DOWN
DR	DRAIN
EES	EMERGENCY EYEWASH AND SHOWER
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
EWI	ELECTRIC WATER HEATER
EXIST	EXISTING
F	FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FIN	FINISHED
FIN FL	FINISHED FLOOR
FIXT	FIXTURE
FL	FLOOR
FP	FIRE PROTECTION
FPZ-BFP	REDUCED PRESSURE ZONE - BACKFLOW PREVENTER
FT	FEET
FW	FLUSHING WATER
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HDPE	HIGH DENSITY POLYETHYLENE
HR	HOSE REEL
HTR	HEATER
HV	HOSE VALVE
HW	HOT WATER
IE	INVERT ELEVATION
IN	INCH
IW	INDIRECT WASTE
KW	KILOWATT
L	LAVATORY
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM


NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NH	NC-HUB
NPT	NATIONAL PIPE THREAD?
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
PCF	POUNDS PER CUBIC FOOT
PSI	POUNDS PER SQUARE INCH (GAUGE)
PVC	POLYVINYL CHLORIDE
REQ'D	REQUIRED
RM	ROOM
RPDA-BFP	REDUCED PRESSURE DETECTOR ASSEMBLY-BACKFLOW PREVENTER
S	SOIL
S/W	SANITARY/WASTE
SAN	SANITARY
SD	STORM DRAIN
SHT	SHEET
SQ FT	SQUARE FOOT
SS	STAINLESS STEEL
ST	STAINLESS
STL	STEEL
TMV	THERMOSTATIC MIXING VALVE
TPV	TRAP PRIMER VALVE
TW	TEPID WATER
TYP	TYPICAL
UP	UP (PENETRATES FLOOR SLAB)
USG	ULTRASONIC THICKNESS MEASUREMENT
V	VENT
VB	VACUUM BREAKER
VIV	VALVE IN VERTICAL
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTER


1. THE SYMBOLS AND ABBREVIATIONS LIST ON SHEET P-001 IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
2. ALL BRANCH PIPING TO EQUIPMENT OR FIXTURES SHALL BE PROVIDED WITH SHUT-OFF VALVES, WHETHER SHOWN , OR NOT SHOWN ON DRAWINGS.
3. CHANGES IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE BY THE USE OF 45 DEGREE ELBOWS, LONG SWEEPS, 90 DEGREE WYES WITH CLEANOUTS OR BY A COMBINATION OF EQUIVALENT FITTINGS. THERE SHALL BE NO DOUBLE WYES IN THE HORIZONTAL PLANE.
4. SANITARY TEES AND QUARTER BENDS MAY BE USED IN DRAINAGE LINES ONLY WHERE DIRECTION OF FLOW IS FROM HORIZONTAL TO THE VERTICAL.
5. ALL EQUIPMENT AND CONTROL MECHANISMS SHALL BE PIPED THROUGH UNION CONNECTIONS.
6. ALL WYE TYPE STRAINERS SHALL HAVE A 3-INCH LONG THREADED NIPPLE, THREADED END BALL VALVE AND PLUG ON BLOWDOWN SIDE.
7. ALL DRAINAGE PIPING 2 1/2" AND LESS SHALL SLOPE AT A MINIMUM OF 1/4" PER FOOT, 3" & LARGER SHALL SLOPE TO A MINIMUM OF 1/8" PER FOOT.
8. AN ACCESSIBLE CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH SOIL STACK, WASTE STACK AND ROOF LEADER.
9. ALL CITY WATER PIPING SHALL BE INSULATED.
10. CORE DRILL BOTH WALLS AND FLOORS AS REQUIRED FOR ALL PIPE PENETRATIONS, WHETHER INDICATED OR NOT. ALL PENETRATIONS SHALL BE SEALED AND MEET ALL REQUIRED FIRE RATINGS FOR SEPARATION.
11. PROVIDE WALL SLEEVES W/ MECHANICAL LINK SEALS FOR ALL FLOOR AND WALL PENETRATIONS.
12. ALL OPERATIONS OF THE EXISTING WATER MAINS AND THEIR VALVES ARE THE RESPONSIBILITY OF WESTCHESTER JOINT WATER WORKS. THE CONTRACTOR WILL NEED TO COORDINATE THE ACTIVATION AND DEACTIVATION OF ANY WATER MAIN AND OPERATION OF ANY VALVES WITH WESTCHESTER JOINT WATER WORKS OPERATIONAL STAFF. ALL WORK TO ISOLATE THE WATER MAINS REQUIRED FOR THE PROJECT WILL BE THE RESPONSIBILITY OF THE WESTCHESTER JOINT WATER WORKS; THIS SHALL INCLUDE THE USE OF EXISTING VALVES, INSTALLATION OF NEW ISOLATION VALVES OR CUTTING/CAPPING/RESTRAINING EXISTING WATER MAINS AS REQUIRED TO ISOLATE THE WATER MAIN FOR THE CONTRACTOR. THE CONTRACTOR WILL INSTALL NEW WATER MAINS AND APPURTENANCES INCLUDING BYPASS PIPING, BOTH TEMPORARY AND PERMANENT, WHICH SHALL BE INSPECTED, TESTED, DISINFECTED AND ACCEPTED BY WESTCHESTER JOINT WATER WORKS PRIOR TO ACTIVATION. ALL WATER RELATED WORK SHALL MEET NEW YORK STATE DEPARTMENT OF HEALTH REGULATIONS AND STANDARDS, THE LOCAL WATER SUPPLIER AND LOCAL PLUMBING CODES.

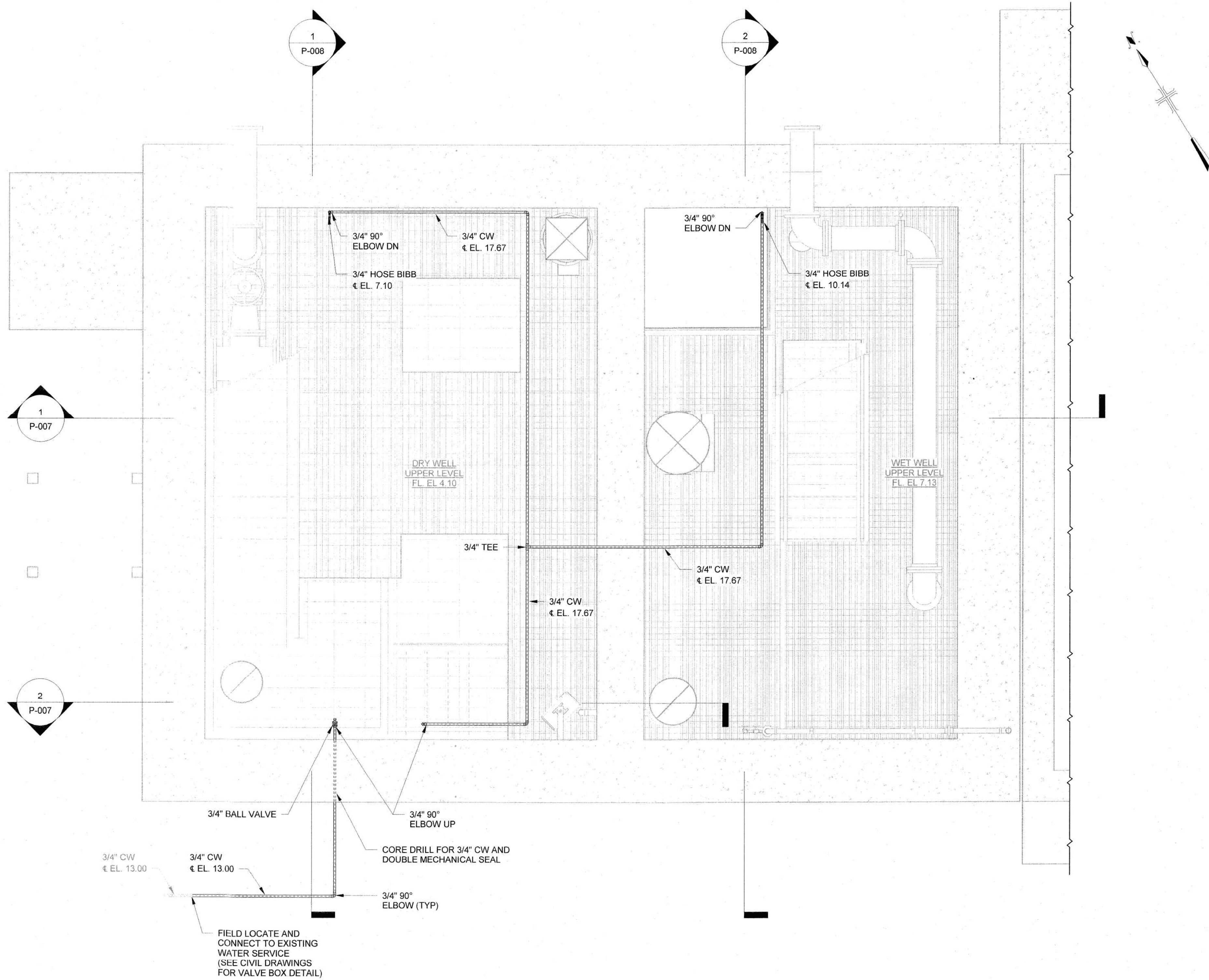
IN CHARGE OF D. PAPASTATHIS
CHECKED BY C. CATCHPOLE
MADE BY A. CHAMBERS

<div style="text-align: center;">SEALS</div> <div style="text-align: center;"></div>		<div style="text-align: center;"> ARCADIS LEGAL ENTITY ARCADIS OF NEW YORK, INC.</div> <div style="font-size: small;">COPYRIGHT: 2021</div> <div style="border-top: 1px solid black; padding-top: 5px;">ARCADIS PROJECT NO. 30108362</div>		<p>WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.2.</p>	
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 22-526	SHEET NUMBER P-001
REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT PLUMBING GENERAL NOTES, ABBREVIATIONS, LEGEND AND SYMBOLS				SHEET NO. 75 OF 103	
				SCALE: 12" = 1'-0" DATE: APRIL 2023	
				DPW FILE NO. 205-03-P-116-0	
				REV NO.	



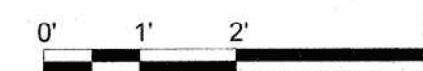
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<p>WESTCHESTER COUNTY, NEW YORK</p> <p>DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION</p> <p>DIVISION OF ENGINEERING</p>														
<p>REHABILITATION OF WEAVER STREET PUMPING STATION</p> <p>MAMARONECK VALLEY SANITARY SEWER DISTRICT</p> <p>GRADE LEVEL</p> <p>DEMOLITION PARTIAL PLAN AND SECTIONS</p>				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">CONTRACT NUMBER 22-526</td> <td style="width: 50%;">SHEET NUMBER P-002</td> </tr> <tr> <td colspan="2">SHEET NO. 76 OF 103</td> </tr> <tr> <td colspan="2">SCALE: 3/4" = 1'-0"</td> </tr> <tr> <td colspan="2">DATE: APRIL 2023</td> </tr> <tr> <td colspan="2">DPW FILE NO.</td> </tr> </table>	CONTRACT NUMBER 22-526	SHEET NUMBER P-002	SHEET NO. 76 OF 103		SCALE: 3/4" = 1'-0"		DATE: APRIL 2023		DPW FILE NO.	
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DATE: APRIL 2023														
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REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT TOP OF STRUCTURE PARTIAL PLAN		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">CONTRACT NUMBER</th> <th style="width: 50%;">SHEET NUMBER</th> </tr> <tr> <td style="text-align: center;">22-526</td> <td style="text-align: center;">P-003</td> </tr> <tr> <td colspan="2" style="padding: 5px;"> SHEET NO. 77 OF 103 </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> SCALE: 1/2" = 1'-0" DATE: APRIL 2023 </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> DPW FILE NO. 205-03-P-118-0 </td> </tr> </table>	CONTRACT NUMBER	SHEET NUMBER	22-526	P-003	SHEET NO. 77 OF 103		SCALE: 1/2" = 1'-0" DATE: APRIL 2023		DPW FILE NO. 205-03-P-118-0	
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22-526	P-003											
SHEET NO. 77 OF 103												
SCALE: 1/2" = 1'-0" DATE: APRIL 2023												
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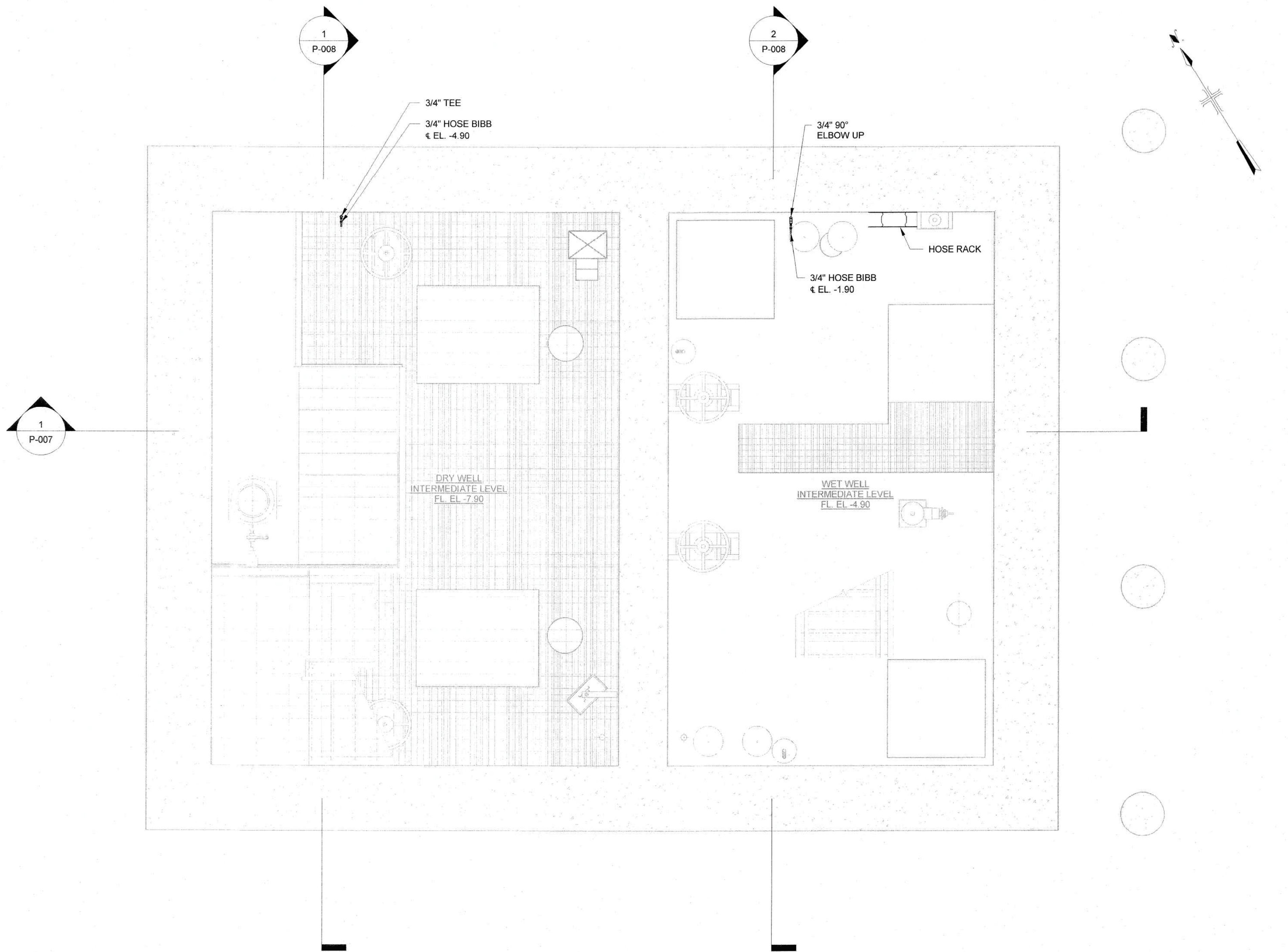
UPPER LEVEL - PARTIAL PLAN AT EL. 4.10

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



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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 22-526	SHEET NUMBER P-004	SHEET NO. 78 OF 103																				
REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT UPPER LEVEL PARTIAL PLAN			SCALE: 1/2" = 1'-0" DATE: APRIL 2023 DPW FILE NO. 205-03-P-119-0	REV. NO.																				



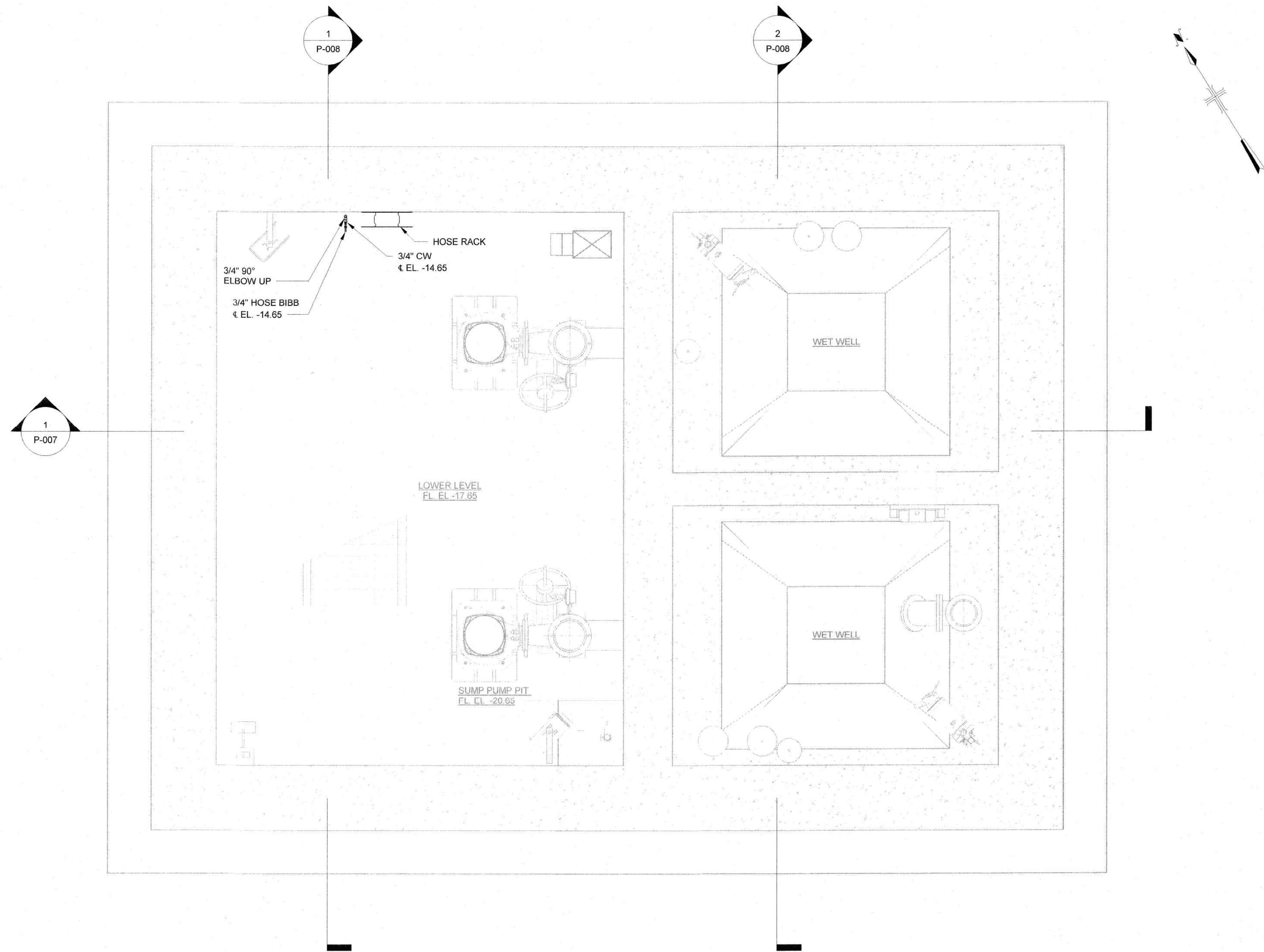
INTERMEDIATE LEVEL - PLAN AT EL. -4.90

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



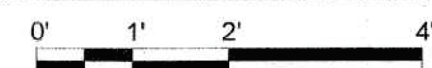
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REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT INTERMEDIATE LEVEL PLAN				SCALE: 1/2" = 1'-0" DATE: APRIL 2023 DPW FILE NO.		REV. NO.																																	
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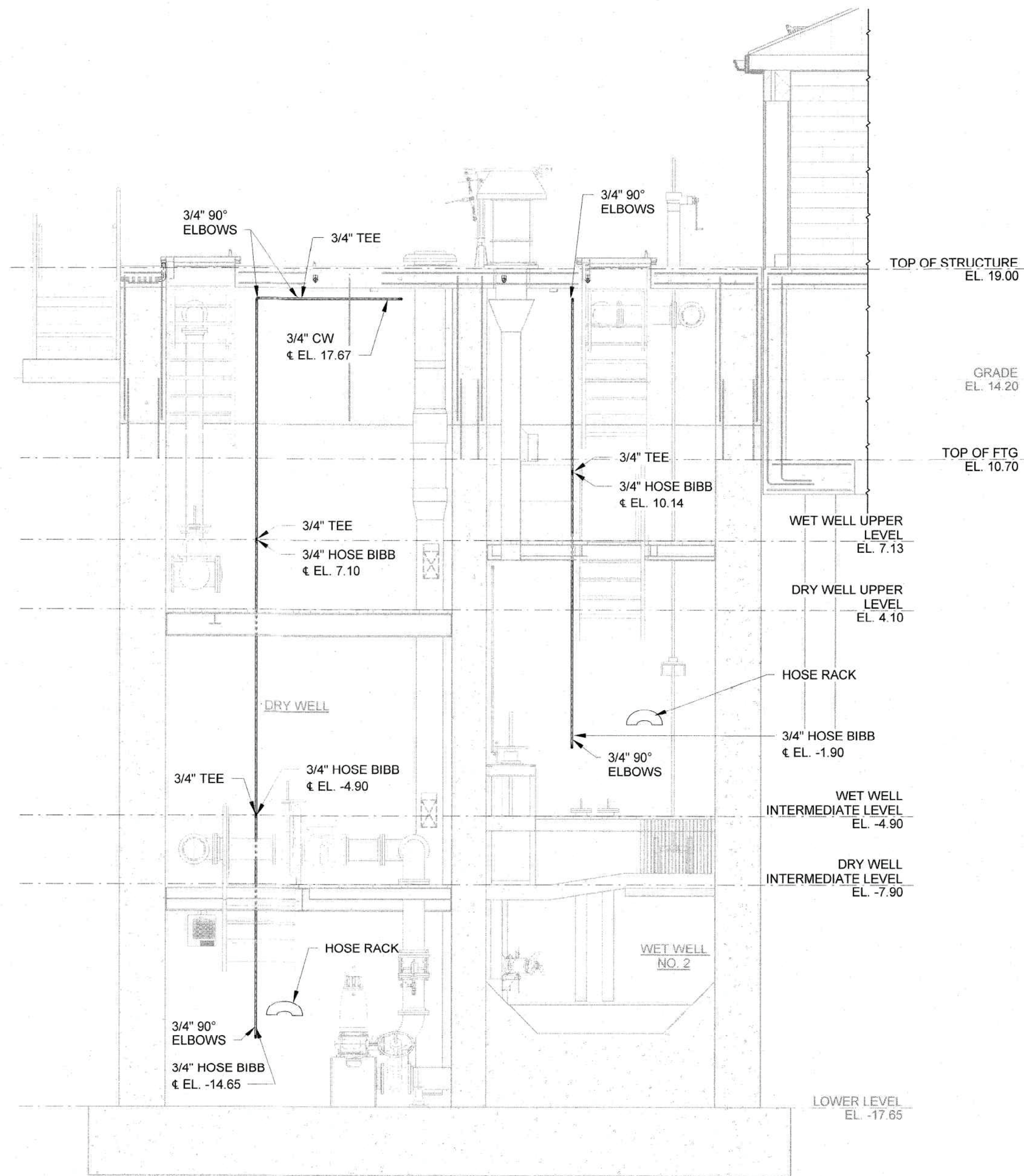
LOWER LEVEL - PLAN AT EL. -17.65

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

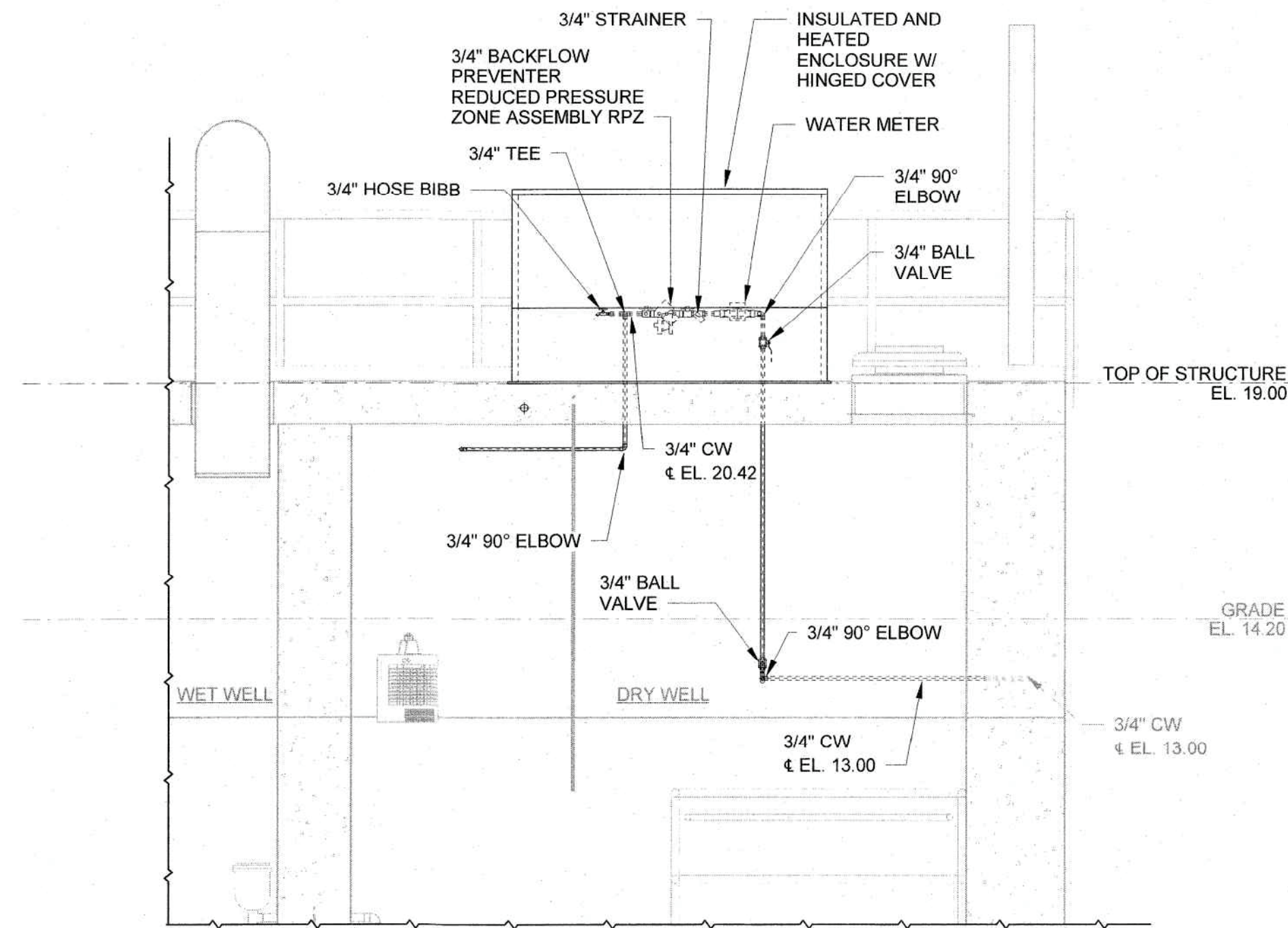
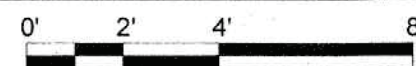


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DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION				SHEET NO. 80 OF 103																									
DIVISION OF ENGINEERING				SCALE: 1/2" = 1'-0"																									
REHABILITATION OF WEAVER STREET PUMPING STATION				DATE: APRIL 2023																									
MAMARONECK VALLEY SANITARY SEWER DISTRICT				DPW FILE NO.																									
LOWER LEVEL				205-03-P-121-0																									
PLAN				REV. NO.																									



1 SECTION
P-003 SCALE: 1/4" = 1'-0"

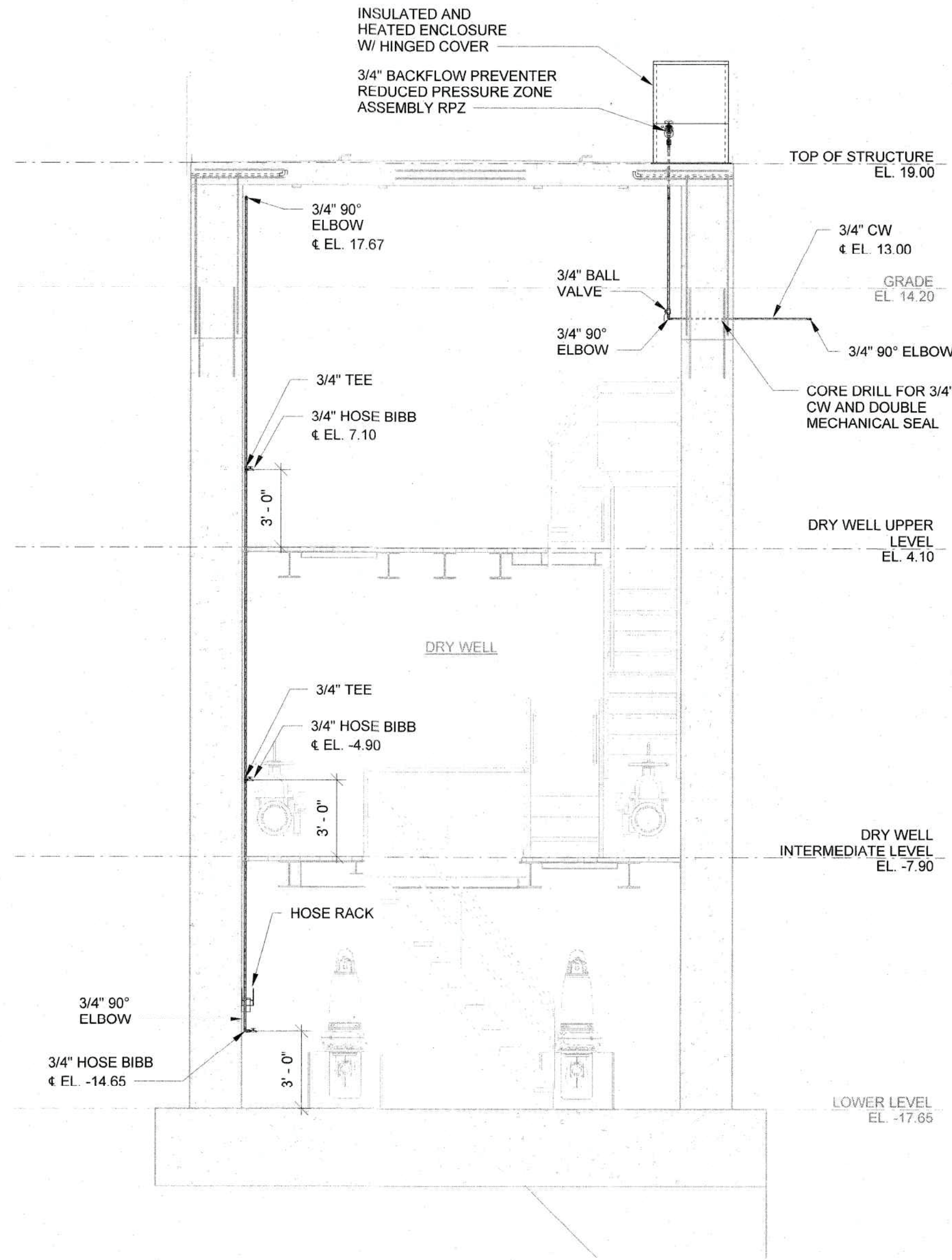


2 SECTION
P-003 SCALE: 3/8" = 1'-0"

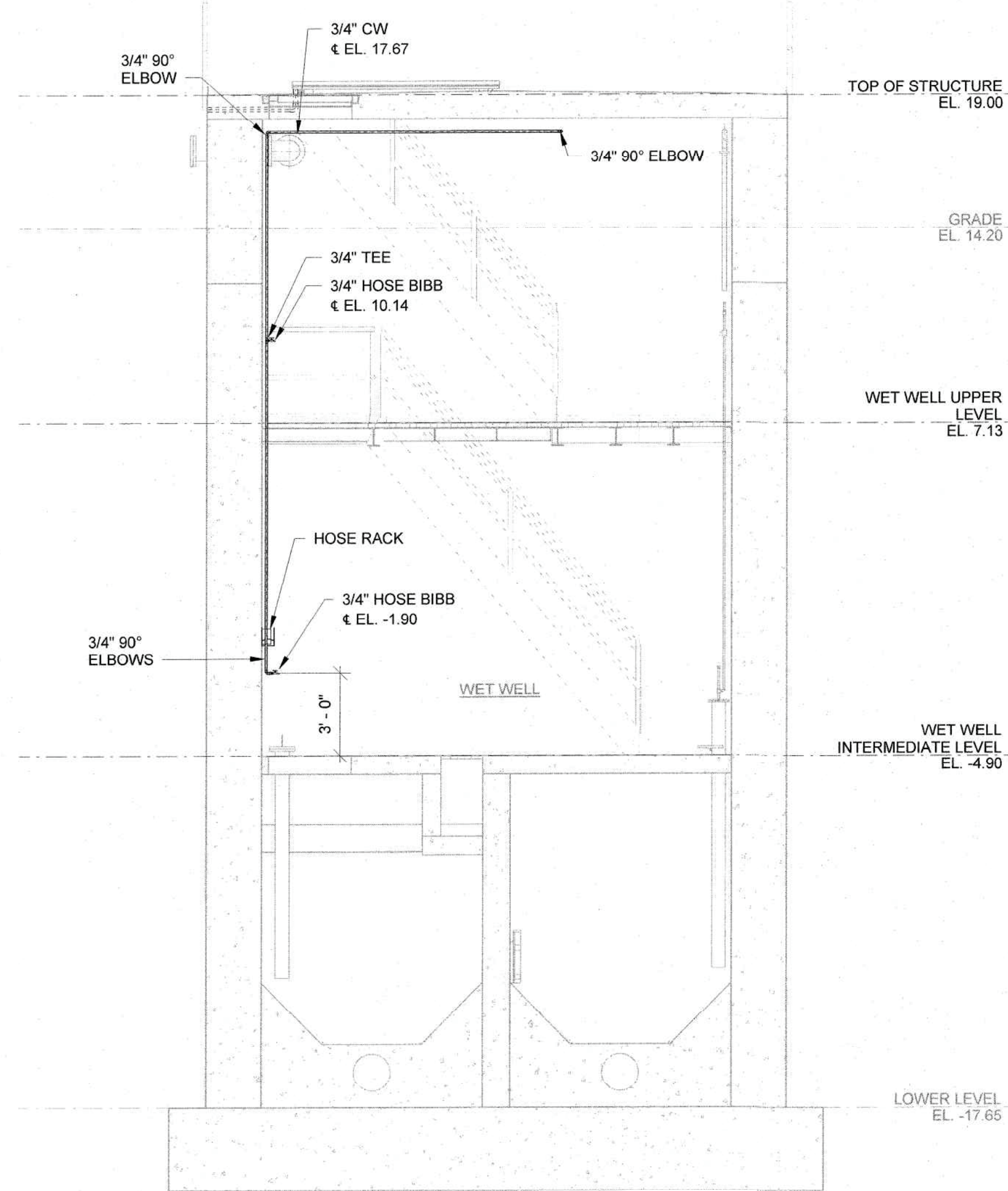
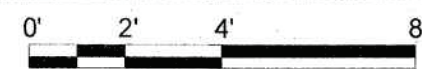


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REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT SECTIONS SHEET 1				SHEET NO. 81 OF 103 SCALE: As indicated DATE: APRIL 2023 DPW FILE NO. 205-03-P-122-0	REV NO.																														



1 SECTION
P-003 SCALE: 1/4" = 1'-0"

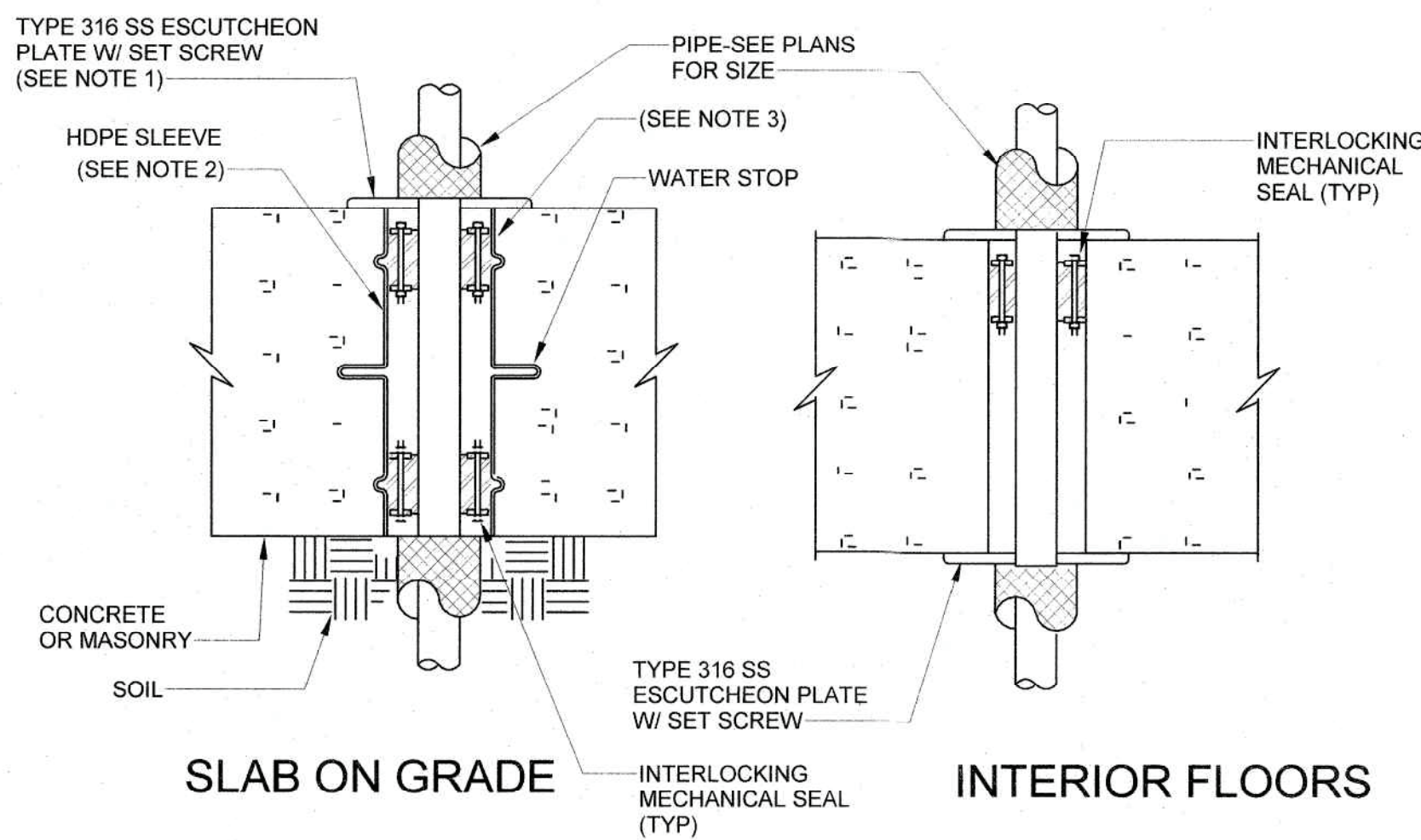


2 SECTION
P-003 SCALE: 1/4" = 1'-0"



IN CHARGE OF D. PAPASTATHIS
CHECKED BY C. CATCHPOLE
MADE BY A. CHAMBERS

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				COPYRIGHT: 2021		ARCADIS PROJECT NO. 30108362																																	
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 22-526		SHEET NUMBER P-008																																	
				SHEET NO. 82		OF 103																																	
REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT				SCALE: 1/4" = 1'-0" DATE: APRIL 2023		DPW FILE NO. 205-03-P-123-0																																	
SECTIONS SHEET 2						REV. NO.																																	

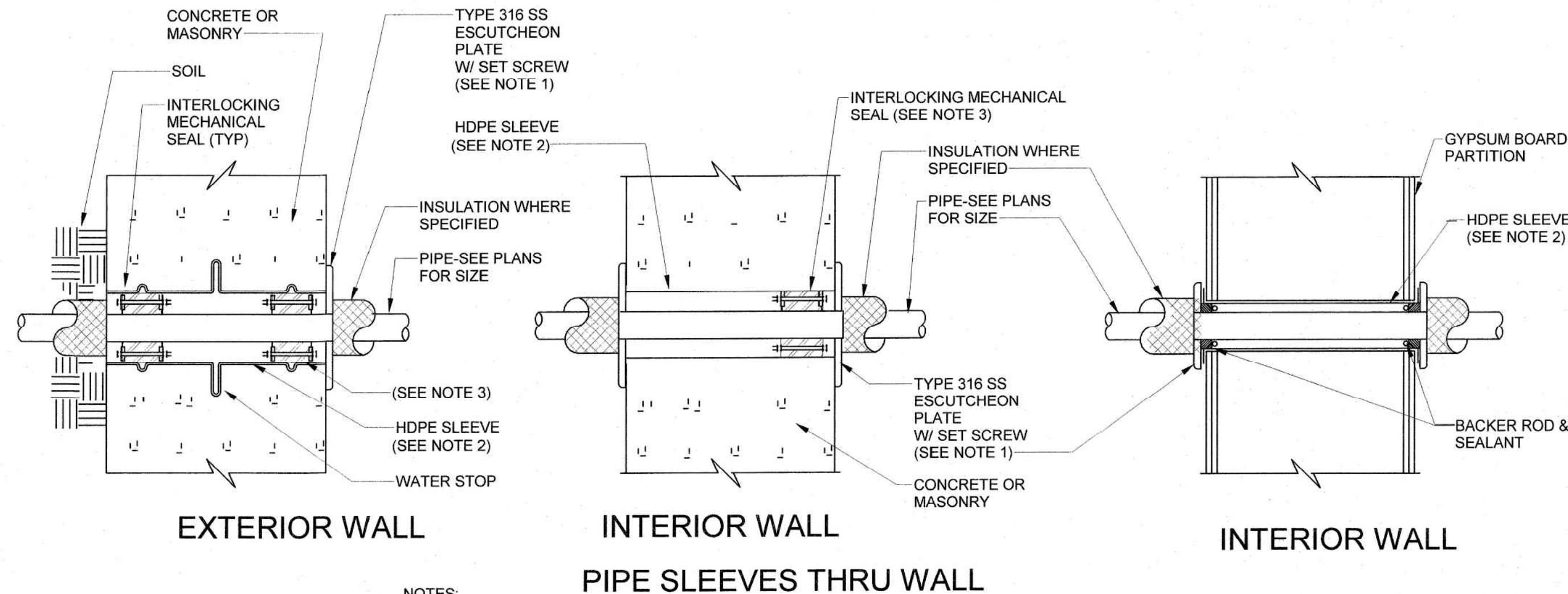


NOTES:

1. WHERE PIPE IS IN CONTACT WITH SOIL, ELIMINATE ESCUTCHEON PLATE.
2. FOR FIRE RATED FLOOR PENETRATION SUBSTITUTE STEEL SLEEVE FOR HDPE.
3. FOR ONE HOUR FIRE RATED PENETRATION PROVIDE ONE FIRE RATED MECHANICAL SEAL. FOR TWO HOUR FIRE RATED PENETRATION PROVIDE TWO FIRE RATED MECHANICAL SEALS.
4. WHERE PIPES PASS THRU EXISTING CONSTRUCTION, CORE DRILL OPENING AND INSTALL MECHANICAL SEALS WITHOUT THE USE OF SLEEVES.

PIPE SLEEVES THRU FLOOR

NOT TO SCALE

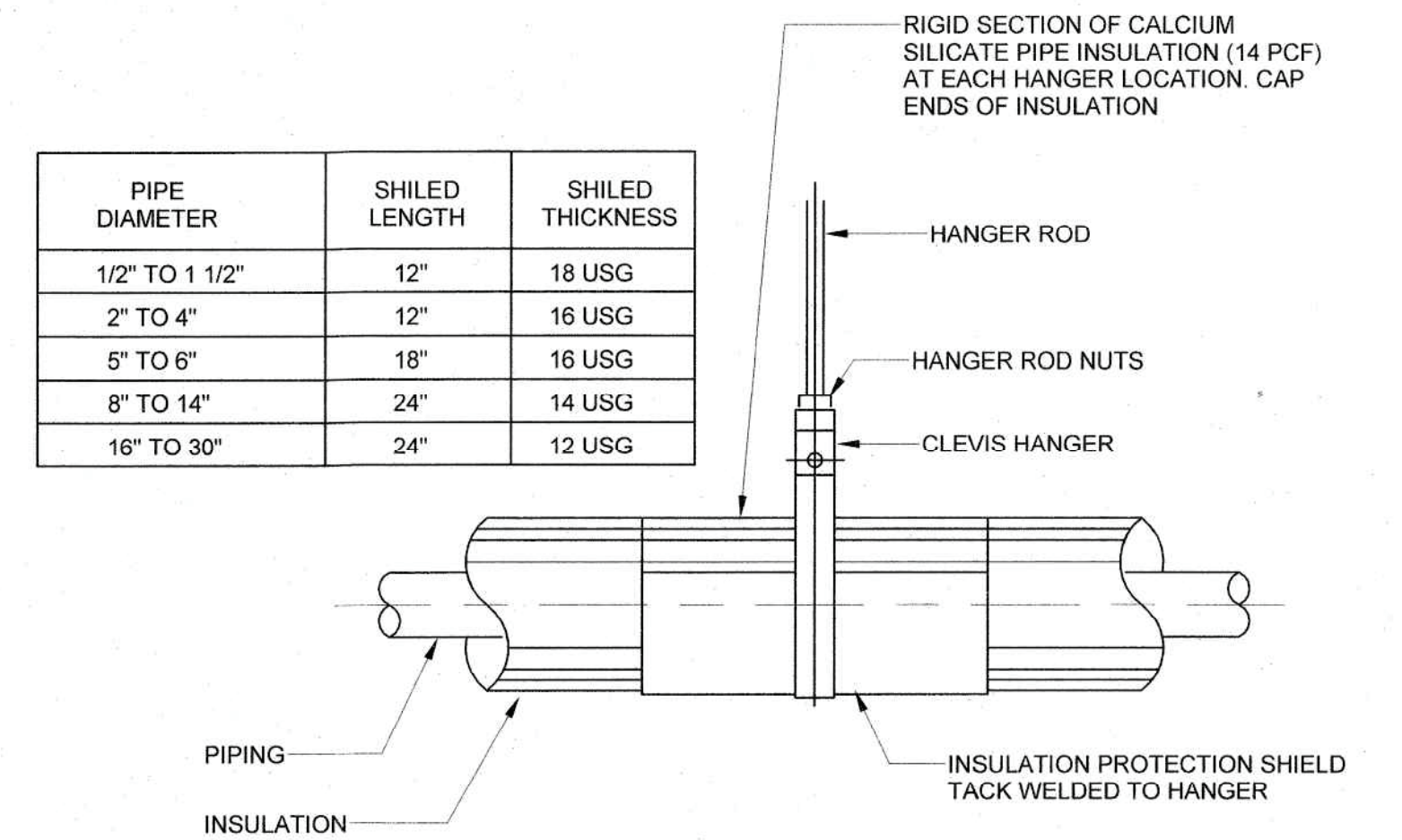


NOTES:

1. WHERE PIPE IS IN CONTACT WITH SOIL, ELIMINATE ESCUTCHEON PLATE.
2. FOR FIRE RATED WALL PENETRATION SUBSTITUTE STEEL SLEEVE FOR HDPE.
3. FOR ONE HOUR FIRE RATED PENETRATION PROVIDE ONE FIRE RATED MECHANICAL SEAL. FOR TWO HOUR FIRE RATED PENETRATION PROVIDE TWO FIRE RATED MECHANICAL SEALS.
4. WHERE PIPES PASS THRU EXISTING CONSTRUCTION, CORE DRILL OPENING AND INSTALL MECHANICAL SEALS WITHOUT THE USE OF SLEEVES.

PIPE SLEEVES THRU WALL

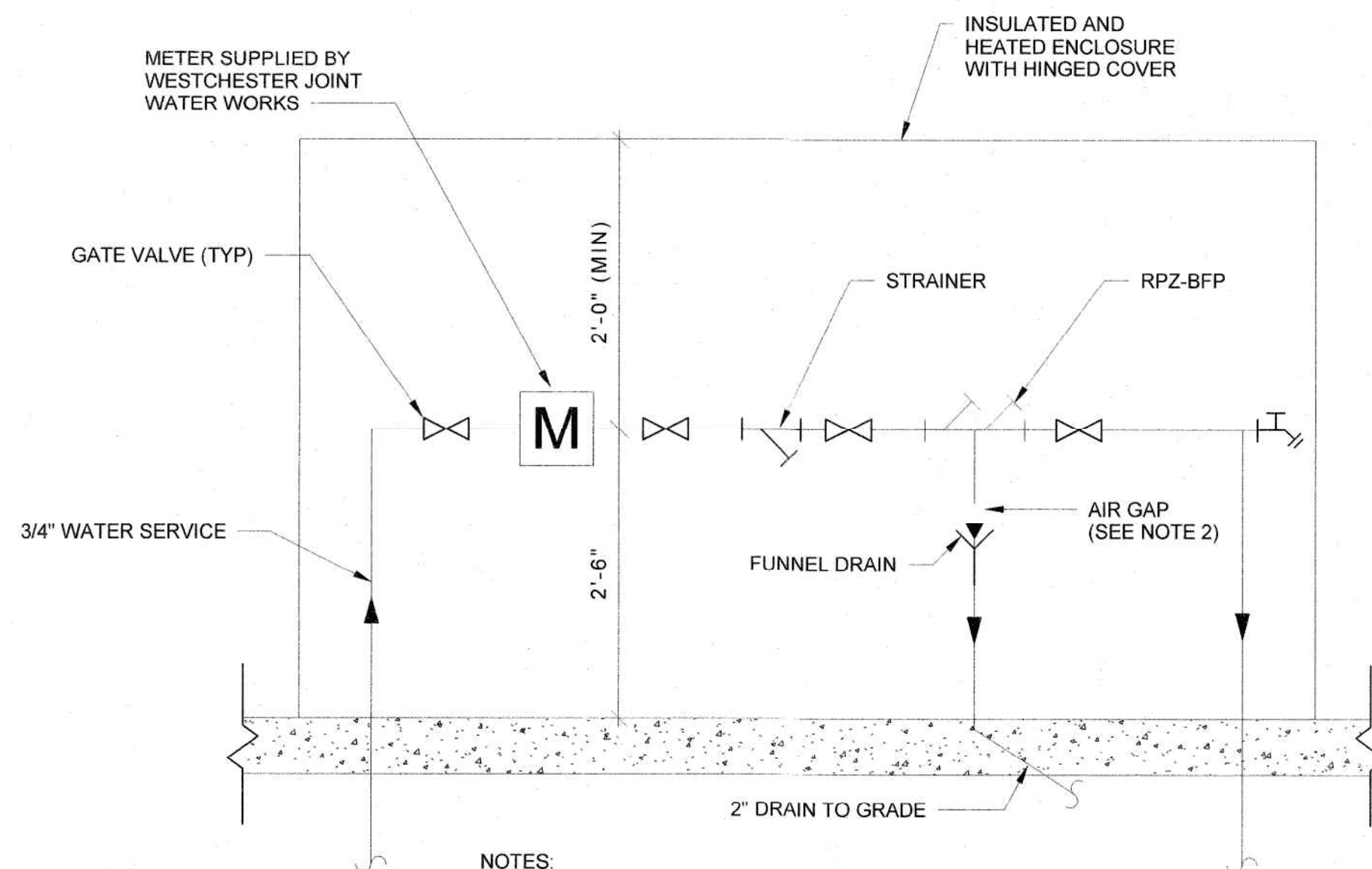
NOT TO SCALE



TYPICAL DETAIL HANGER ARRANGEMENT OF INSULATED PIPING

PIPE HANGER DETAIL

NOT TO SCALE

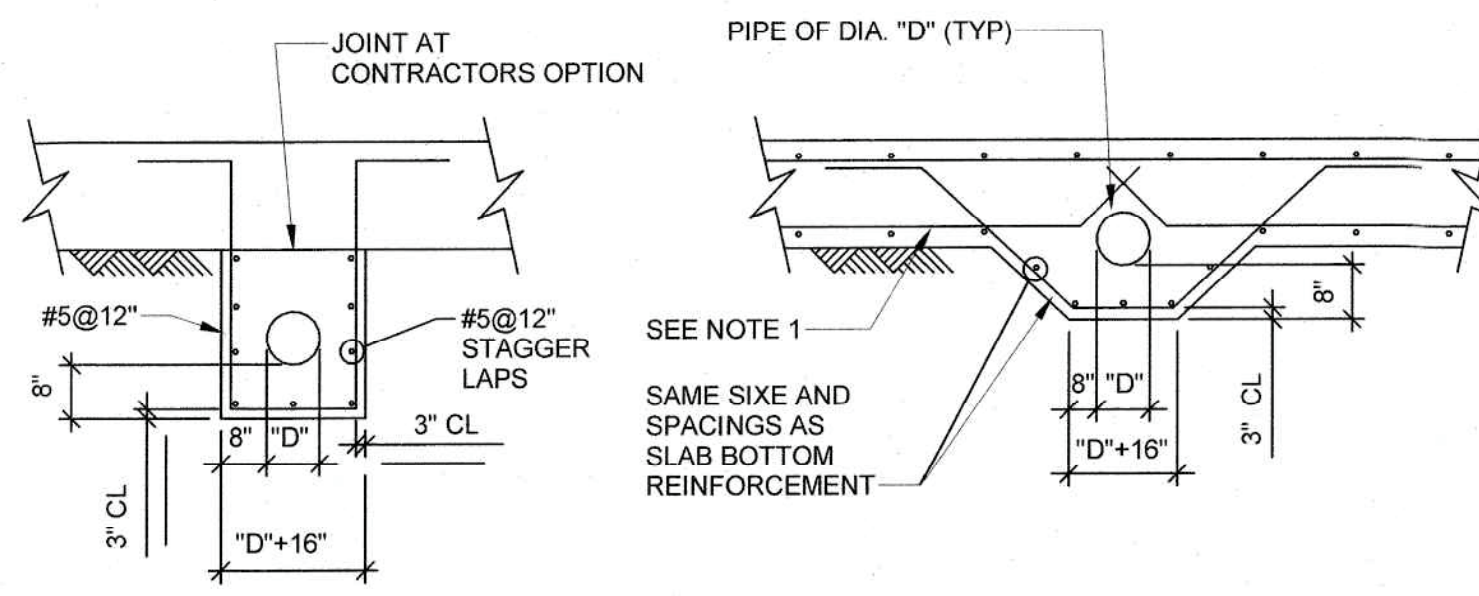


NOTES:

1. INSTALL WATER METER AND BACKFLOW PREVENTER IN ACCORDANCE WITH WESTCHESTER JOINT WATER WORKS REQUIREMENTS.
2. AIR GAP SHALL BE 2X DIAMETER OF DISCHARGE OUTLET.
3. COORDINATE INSTALLATION OF WATER METER TRANSMITTER WITH WESTCHESTER JOINT WATER WORKS.

REDUCED PRESSURE ZONE BACKFLOW PREVENTER

NOT TO SCALE

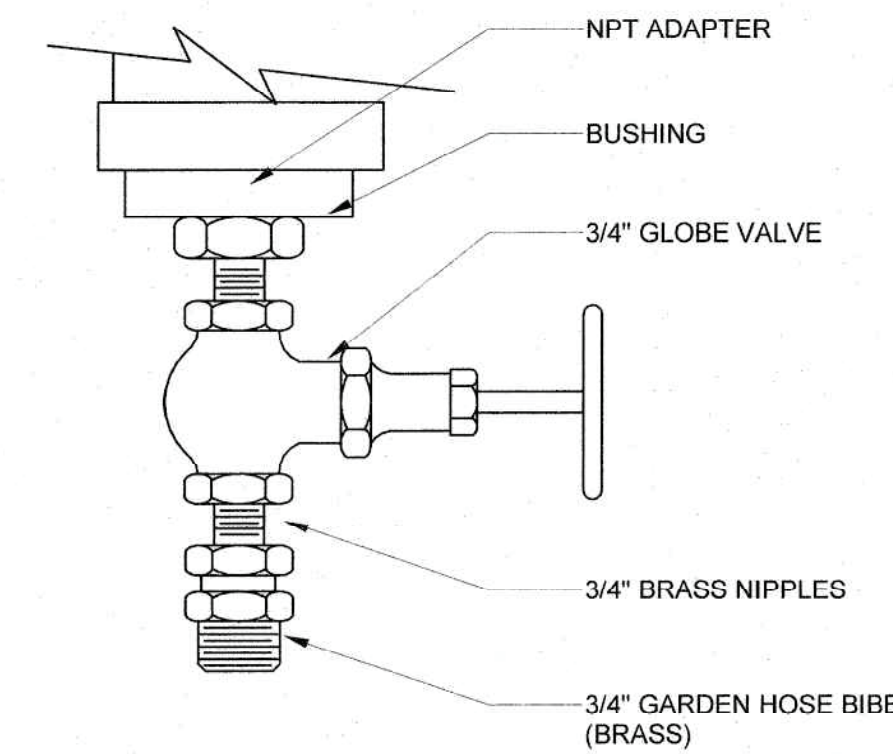


NOTES:

1. BOTTOM REINFORCEMENT TO BE CONTINUOUS WHERE POSSIBLE.
2. FOR PIPE SIZE "D" AND ELEVATION, SEE PLUMBING DRAWINGS.
3. ALL PIPES LOCATED BENEATH BASE SLABS SHALL BE ENCASED IN CONCRETE UNLESS OTHERWISE NOTED.

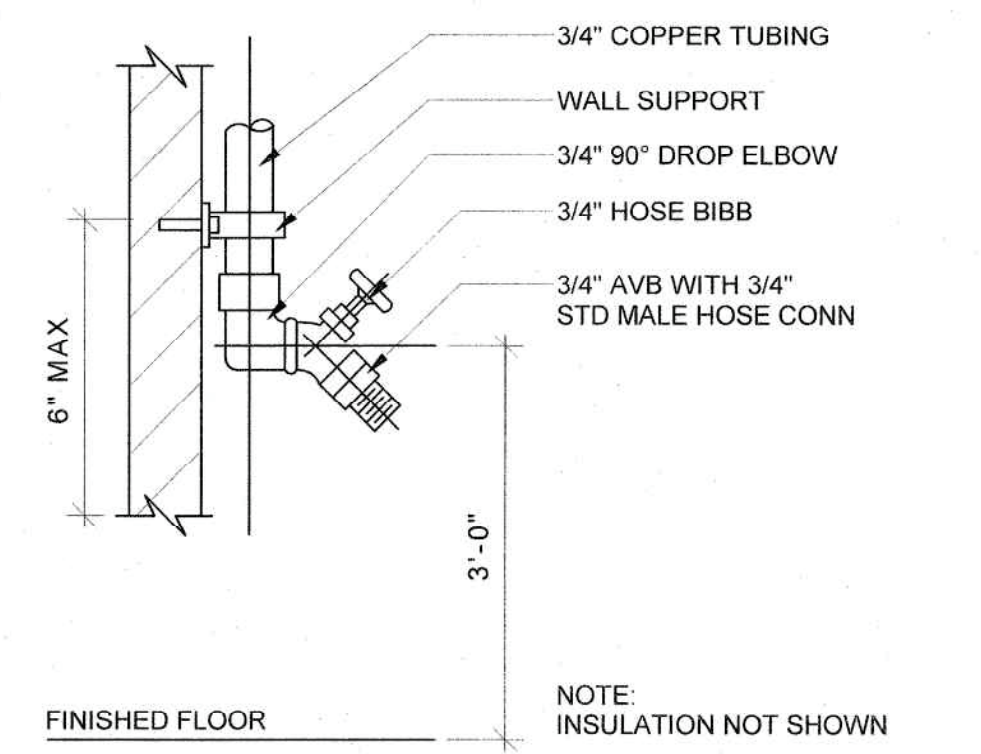
PIPE ENCASEMENT DETAIL

NOT TO SCALE



DRAIN VALVE DETAIL

NOT TO SCALE



HOSE BIBB

NOT TO SCALE

IN CHARGE OF D. PAPASTATHIS
 CHECKED BY C. CATCHPOLE
 MADE BY A. CHAMBERS

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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 22-526	SHEET NUMBER P-009										
REHABILITATION OF WEAVER STREET PUMPING STATION MAMARONECK VALLEY SANITARY SEWER DISTRICT TYPICAL DETAILS				SHEET NO. 83 OF 103 SCALE: As indicated DATE: APRIL 2023 DPW FILE NO. 205-03-P-124-0	REV NO.										