ASTORIA GRESHAM SEASIDE CANNON BEACH PORTLAND PORTLAND BEND SALEM SEASIDE CALIFORNIA BEND SEASIDE COLUMBIA RIVER BA SEASIDE CALIFORNIA BEND SEASIDE CALIFORNIA SEASIDE CALIFORNIA SEASIDE COLUMBIA RIVER BA SEASIDE COLUMBIA SEASIDE CALIFORNIA NEVADA

CONSTRUCTION DRAWINGS

STANDARDS FOR SUBMERSIBLE SEWAGE PUMP STATIONS

FOR THE CITY OF GRESHAM, OREGON

PROJECT

BURNSIDE STARK TOSTER

VICINITY MAP

NO SCALE

DRAWING REFERENCE

LOCATION MAP

NOTE:

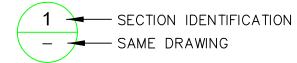
NO SCALE

THE SYMBOLS LISTED ON THIS SHEET ARE TYPICAL SYMBOLS THAT MAY OR MAY NOT BE USED IN THIS SET OF PLANS. SPECIAL SYMBOLS WILL BE NOTED ON THE SHEETS THAT THEY APPLY TO.

- 1. DRAWINGS ARE CROSS REFERENCED IN THE FOLLOWING MANNER: (a) SECTION CUT ON DRAWING CO8:
- 1 SECTION IDENTIFICATION
 CO9 DRAWING ON WHICH SECTION APPEARS
- (b) ON DRAWING CO9 THE SECTION IS IDENTIFIED AS:
- SECTION IDENTIFICATION

 CO8 —— DRAWING FROM WHICH THE SECTION WAS TAKEN

(c) SECTION CUT AND SHOWN ON SAME DRAWING:



- 2. PLANS, DETAILS AND ELEVATIONS ARE CROSS REFERENCED IN A SIMILIAR MANNER.
- 3. SECTION REFERENCED IN TEXT, "SEE 5/CO6" MEANS SEE SECTION 5 OR DETAIL 5 ON DRAWING NUMBER CO6.

ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITIES NOTIFICATION CENTER IS 1-800-332-2344).

UTILTY CONTACTS	CONTACT	PHONE #
PGE General Telephone Paragon Cable Gresham Water N.W. Natural Gas Mult. Co. Transportation	Ralph Goen Doug Wellman Tow Howe Marty Wegner Scott Palmer	669-5278 667-9787 667-9390 X-224 618-2382 226-4211 248-5050
Development On Call Locating Sewer(City of Gresham) Storm(City of Gresham)	Art Hardie Clint Moshofsky	246-6699 618-2668 618-2637

GENERAL NOTES

- 1. THESE ARE CONCEPTUAL SUBMERSIBLE PUMP STATION DRAWINGS INTENDED TO DEFINE THE CITY OF GRESHAM'S PREFERRED APPROACH TO DESIGN AND CONSTRUCTION. THE DRAWINGS ARE NOT DIRECTLY APPLICABLE TO ANY SPECIFIC PROJECT. THESE PLANS ARE INTENDED AS GUIDANCE TO A PROFESSIONAL ENGINEER WHO WILL BE RESPONSIBLE FOR THE DESIGN OF THE SPECIFIC PROJECT.
- 2. DESIGN SHALL BE IN CONFORMANCE WITH THE CITY OF GRESHAM PUBLIC WORKS DESIGN STANDARDS AND THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY "OREGON STANDARDS FOR THE DESIGN AND CONSTRUCTION OF WASTEWATER PUMP STATIONS"
- 3. THESE PLANS ARE GENERALLY APPLICABLE TO PUMP STATIONS WITH DESIGN FLOWS IN THE RANGE OF 200 GPM TO 1,500 GPM.

5. A GRADING AND DRAINAGE PERMIT IS REQUIRED FROM THE BUILDING DEPARTMENT PRIOR TO

- 4. CONTRACTOR SHALL PROTECT EXISTING MONUMENTS, BENCH MARKS, PROPERTY CORNERS, AND GOVERNMENT MONUMENTS.
- CONSTRUCTION PLAN APPROVAL.

 6. EROSION CONTROL MEASURES ARE REQUIRED OF THIS PROJECT. ALL WORK MUST COMPLY WITH CITY OF GRESHAM EROSION CONTROL PLANS TECHNICAL GUIDANCE HANDBOOK AND
- 7. CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES PRIOR TO BEGINNING CONSTRUCTION.
- 8. CONNECT ALL DRAIN TILE ENCOUNTERED DURING CONSTRUCTION TO PUBLIC STORM DRAIN.

STORM WATER CONSERVATION ACTIVITIES PERMIT FROM DEQ.

POINT

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	PL	PROPERTY LINE
AGG	AGGREGATE	PSI	POUNDS PER SQUARE INCH
СВ	CATCHBASIN	PVC	POLYVINYL CHLORIDE
CL OR Ç	CENTERLINE	ROW	RIGHT OF WAY
CL V	CLASS V CONCRETE PIPE	RT	RIGHT
DI	DUCTILE IRON	SD	STORM DRAIN
DIA	DIAMETER	ST	STREET
DWG	DRAWING	STA	STATION
EL OR ELEV	ELEVATION	T	TELEPHONE
EOP	EDGE OF PAVEMENT	TC	TOP OF CURB
EXIST	EXISTING	TYP	TYPICAL
FH	FIRE HYDRANT	W/	WITH
IE	INVERT ELEVATION	W	WATER
L	LENGTH		
LT	LEFT		
LF	LINEAL FEET		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		

DRAWING INDEX

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
1 2 3 4 5 6 7 8 9 10 11	G01 C01 C02 S01 M01 M02 E01 E02 E03 E04 E05	COVER SHEET CIVIL SITE PLAN AND DETAILS CIVIL AND STRUCTURAL DETAILS STRUCTURAL PLANS AND SECTIONS MECHANICAL PLANS AND SECTIONS MECHANICAL DETAILS ELECTRICAL SITE PLAN AND DETAILS ELECTRICAL PLAN, SECTION AND DETAILS ELECTRICAL CONTROL SCHEMATIC ELECTRICAL CONTROL SCHEMATIC

CHECKED BY:	
	DATE
PROJECT COORDINATOR	DATE:
APPROVED BY:	
	DATF:
DEVELOPMENT ENGINEED	
DEVELOPMENT ENGINEER	
These plans are approved for const as noted. All work must be in conf Standards. Approval is only for con Standards and does not relieve the reponsibility for the design.	formance with City of Gresham formance to City of Gresham

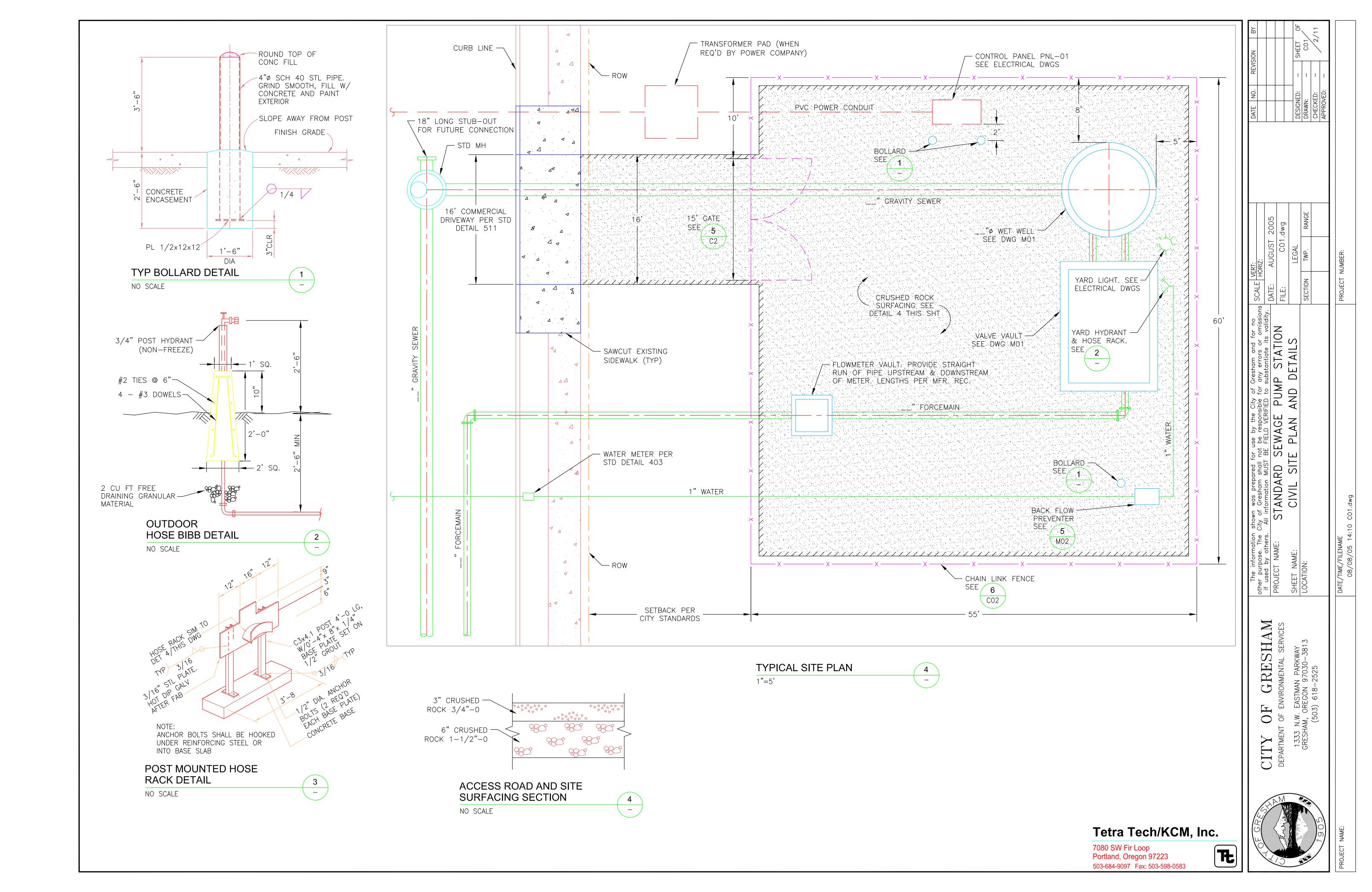
Tetra Tech/KCM, Inc.

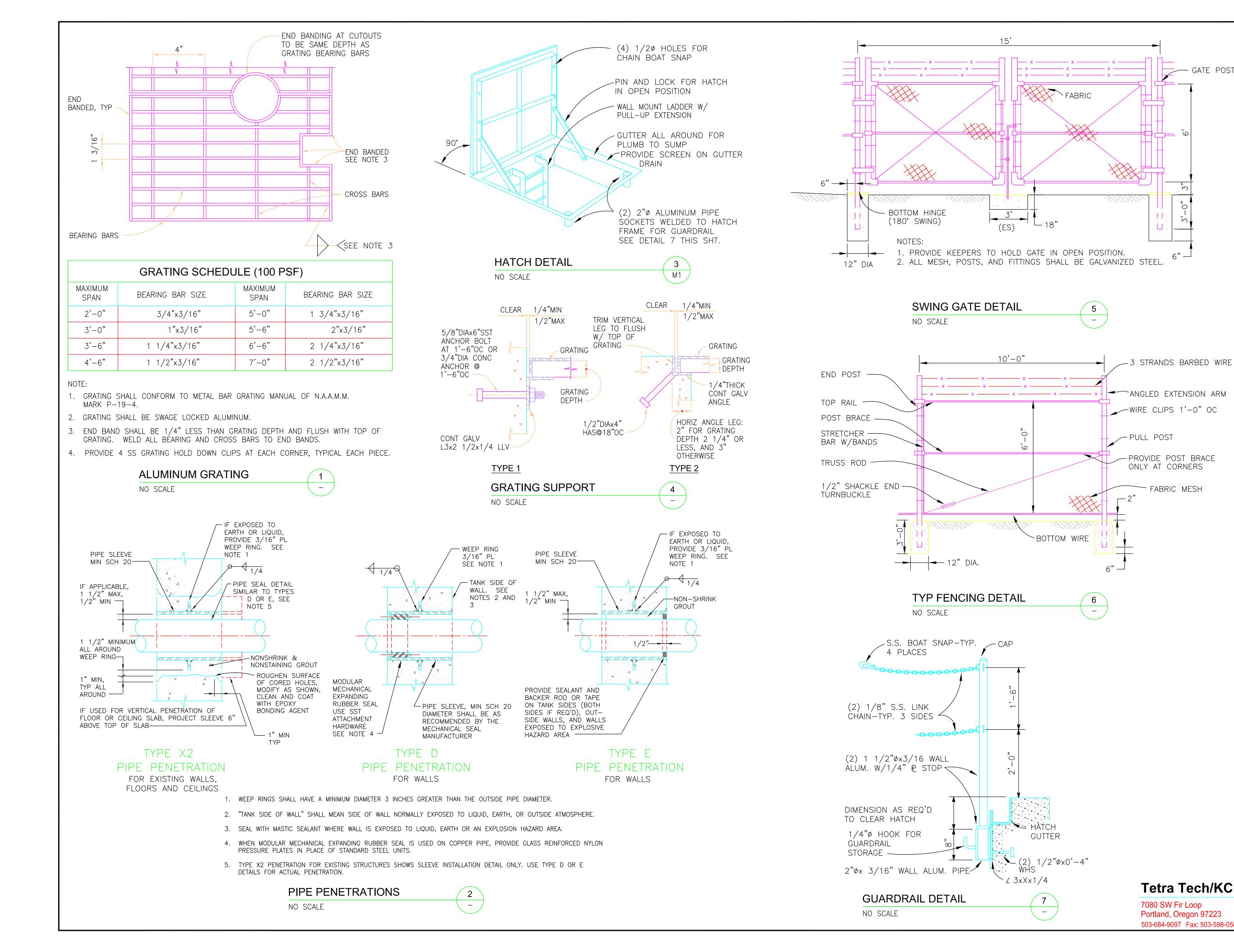
7080 SW Fir Loop Portland, Oregon 97223 503-684-9097 Fax: 503-598-0583

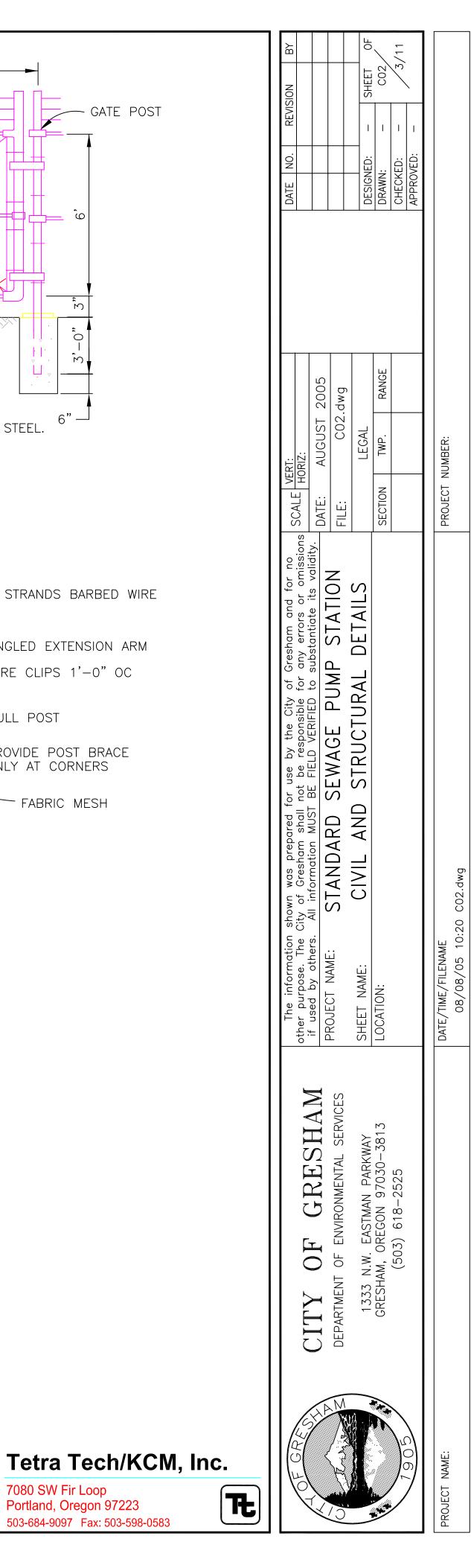


GRESHAN

OF 1 OF EN N.W. E. 1AM, OR (503)







GATE POST

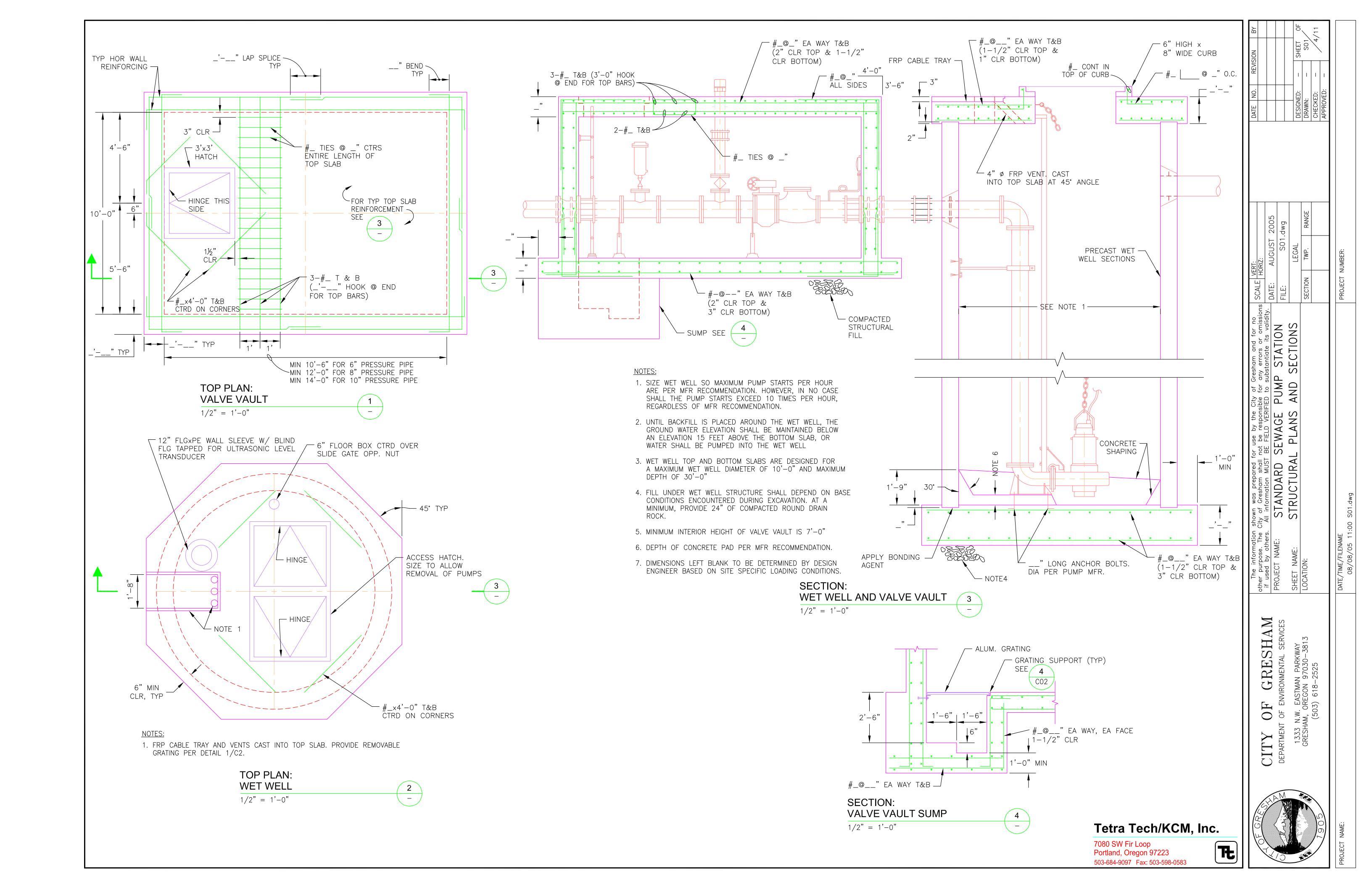
PROVIDE POST BRACE

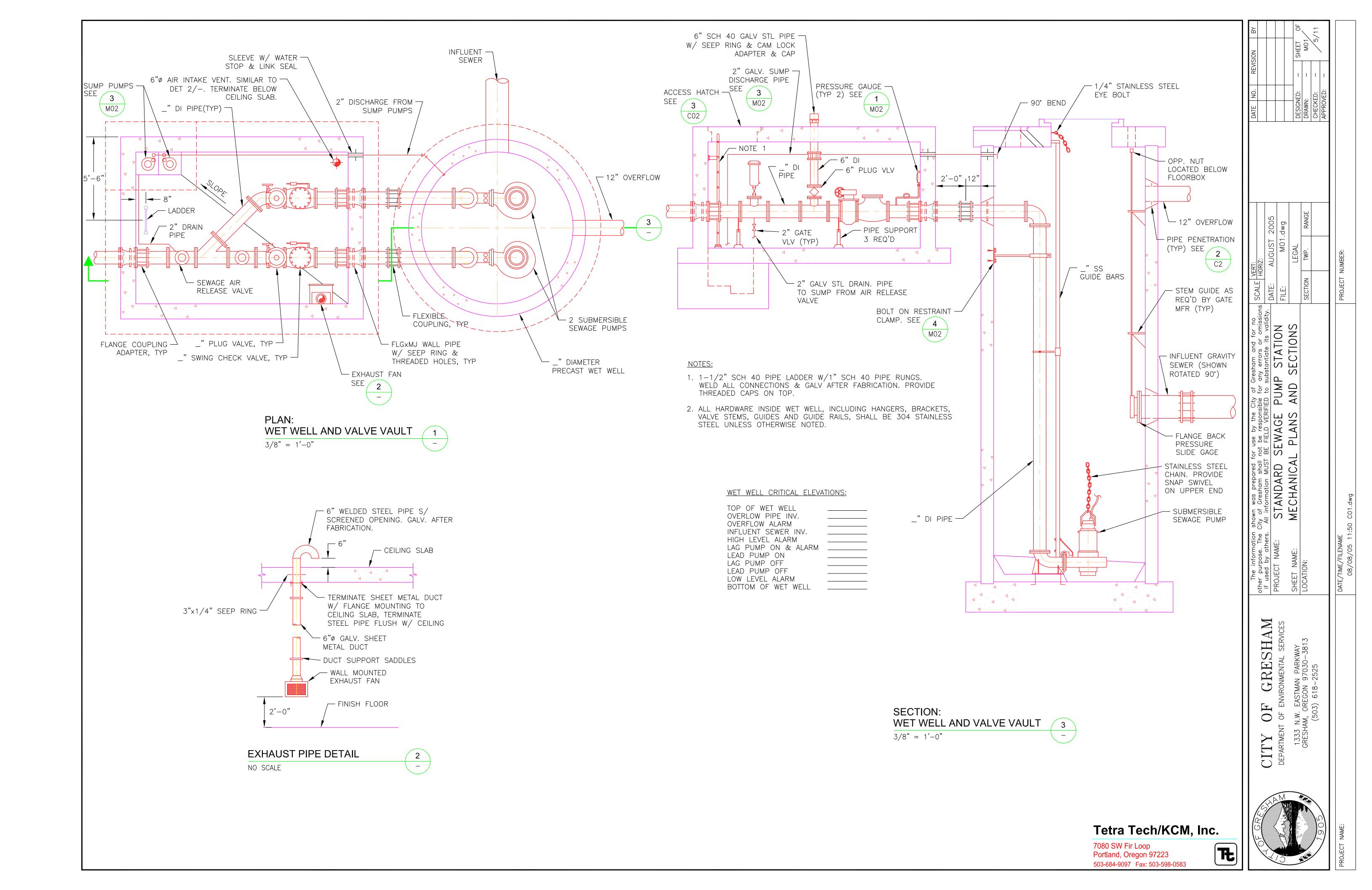
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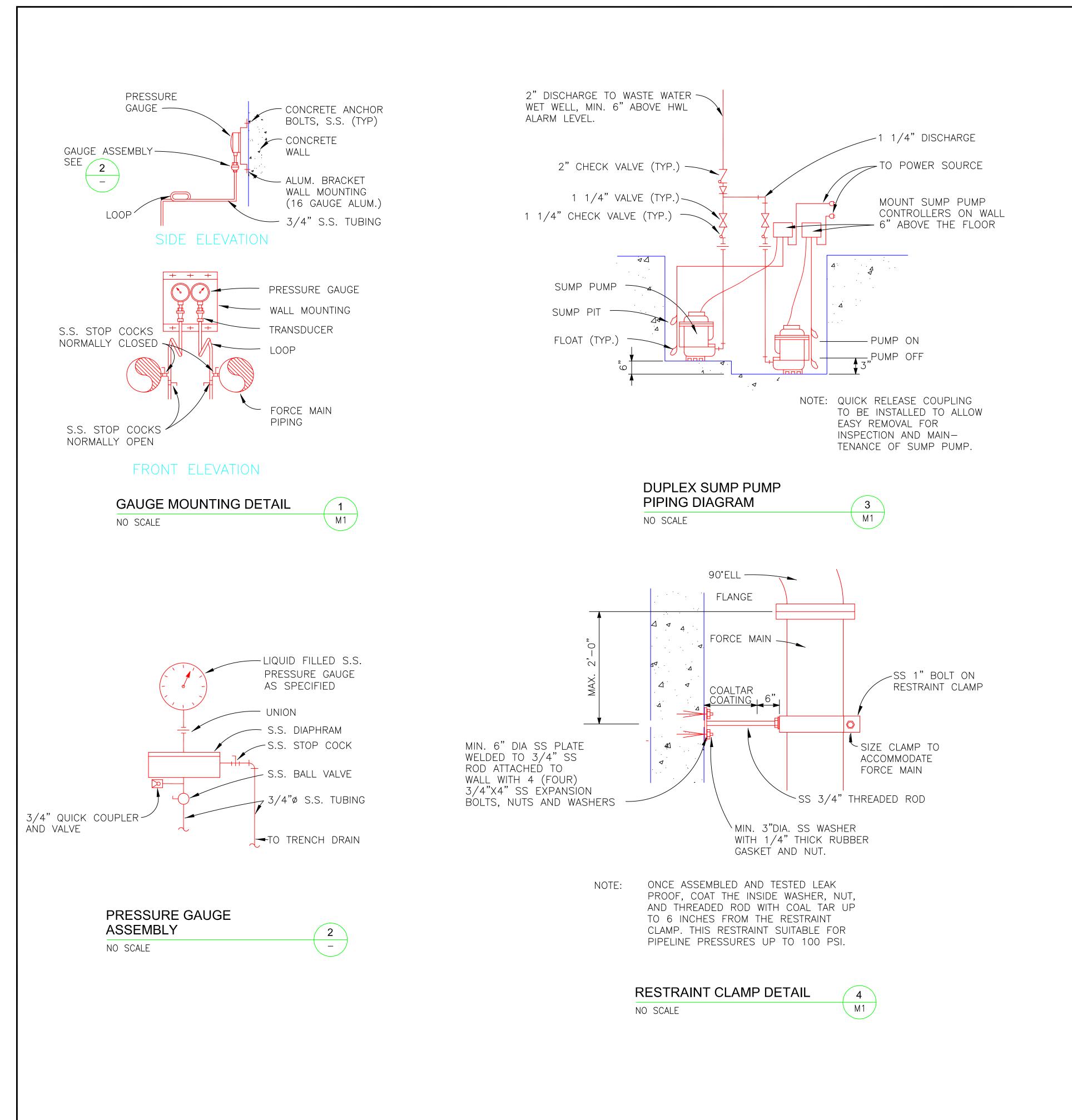
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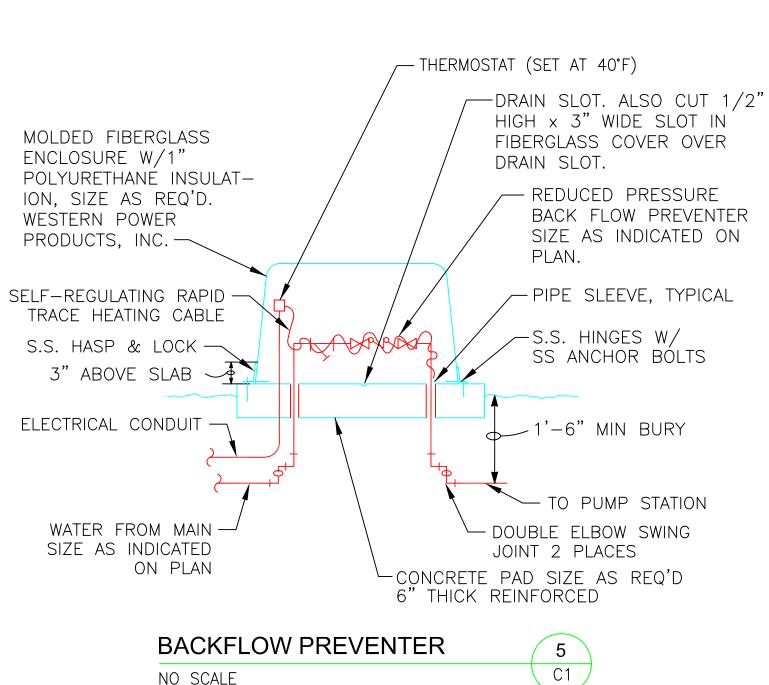
Portland, Oregon 97223

503-684-9097 Fax: 503-598-0583

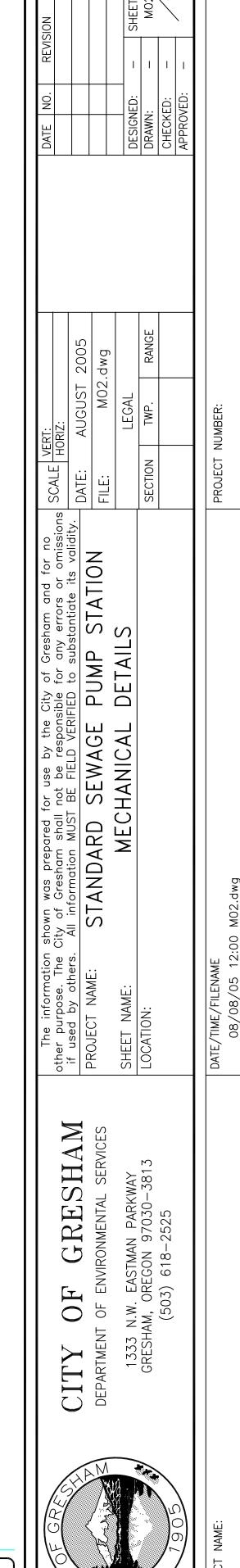




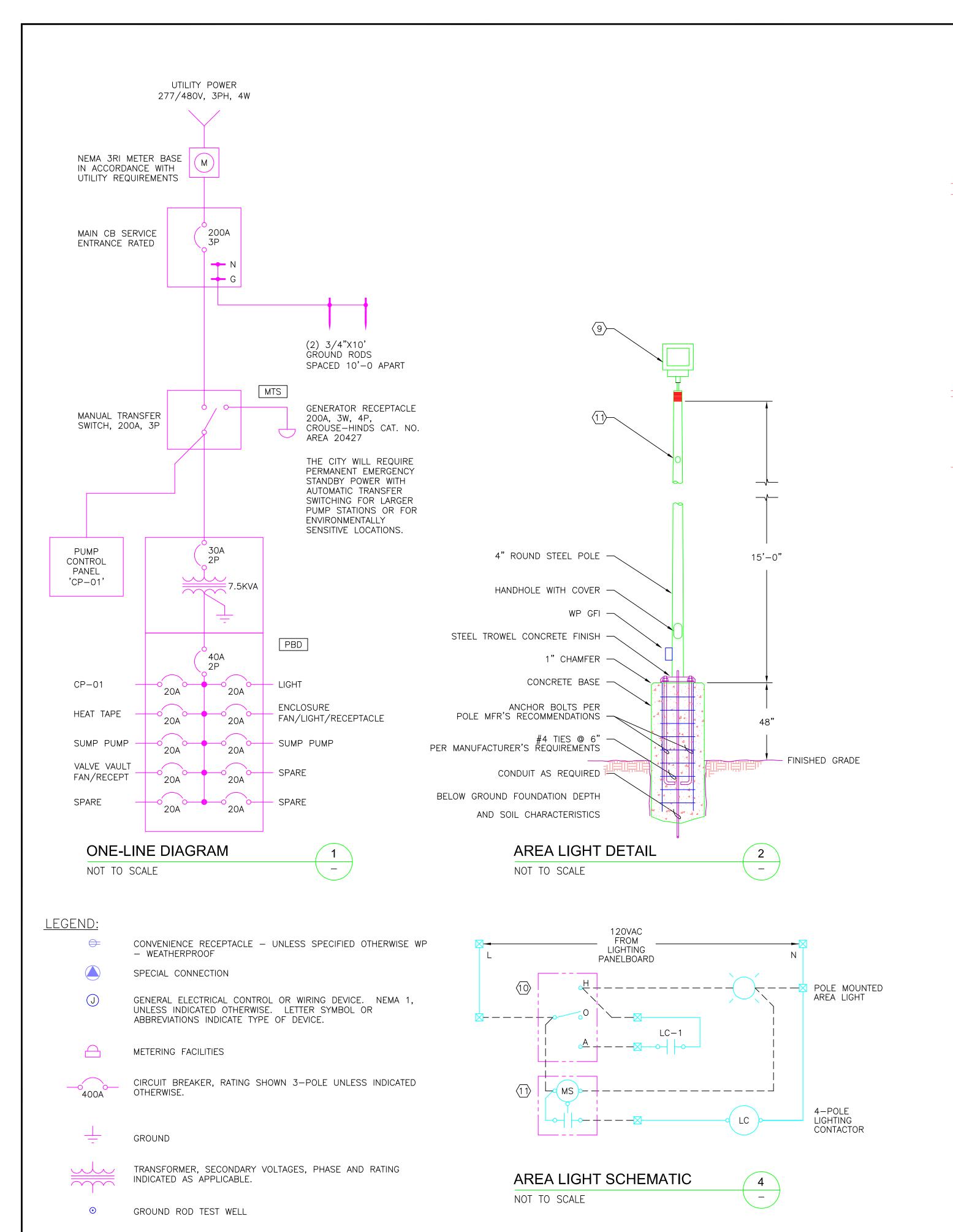


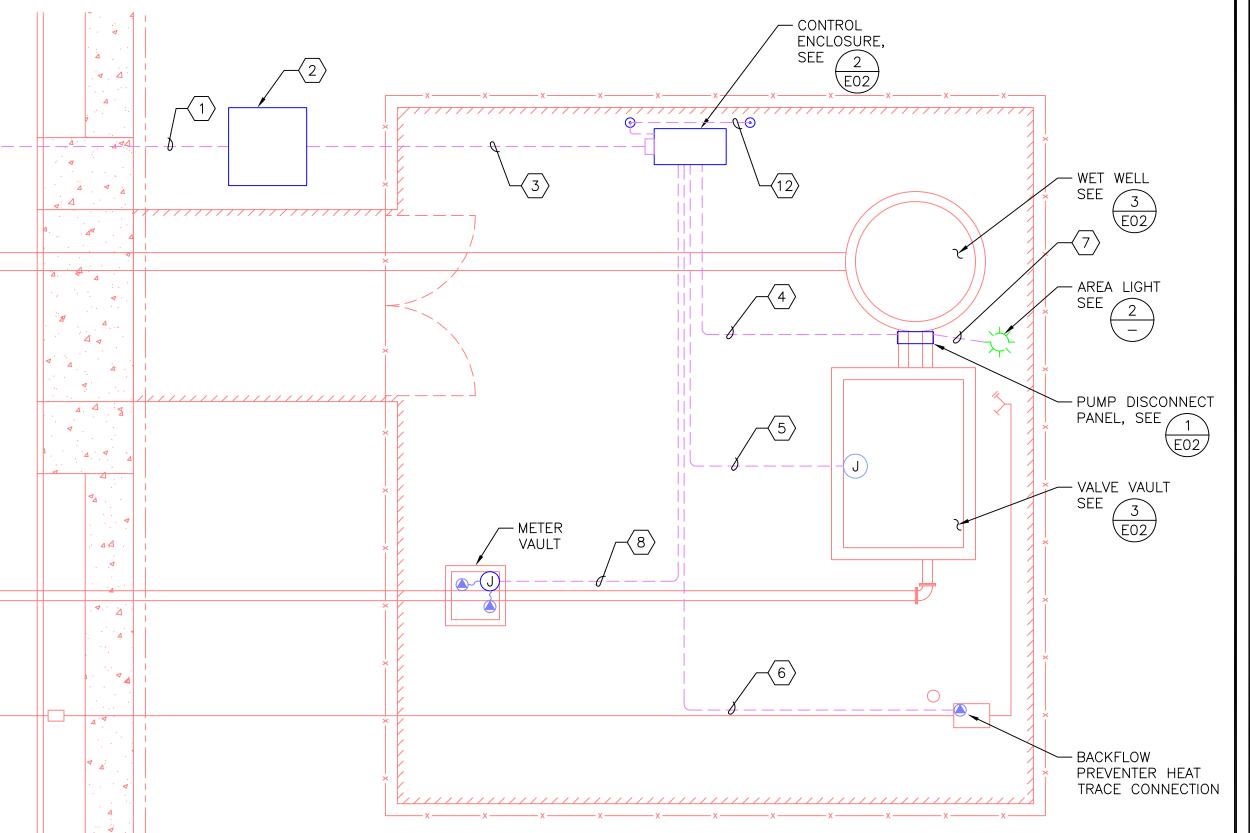


NO SCALE



Tetra Tech/KCM, Inc.





SITE PLAN

1/8" = 1'-0"

KEYED NOTES:

- 1) THE CONTRACTOR SHALL PROVIDE ALL TRENCH, CONDUIT, VAULTS, PADS, ROAD CROSSINGS FOR THE POWER COMPANY UNDERGROUND PRIMARY LINE EXTENSION. REFER TO THE CONTRACT DOCUMENT SPECIFICATIONS AND THE PGE OREGON ELECTRIC SERVICE REQUIREMENTS BOOKLET FOR SPECIFIC REQUIREMENTS. THE CONTRACTOR SHALL ARRANGE AN ON-SITE COORDINATION MEETING WITH THE POWER COMPANY FIELD CONSTRUCTION COORDINATOR PRIOR TO EXCAVATION. CONTACT _____ AT PGE, (503) _____.
- THE CONTRACTOR SHALL PROVIDE TRANSFORMER PAD OR PADVAULT AS REQUIRED BY THE POWER COMPANY.
- THE CONTRACTOR SHALL PROVIDE TRENCHING CONDUIT AND BACKFILL FOR THE SERVICE ENTRANCE AS REQUIRED BY THE POWER COMPANY. THE POWER COMPANY WILL INSTALL AND MAKE FINAL TERMINATIONS OF THE SECONDARY CONDUCTORS.
- 4 THE CONTRACTOR SHALL PROVIDE THE FOLLOWING CIRCUITS AND RACEWAYS BETWEEN THE CONTROL ENCLOSURE AND THE PUMP DISCONNECT PANEL: PUMP No.1 FEEDER: _____"C, 3#____, 1#____ GND. PUMP No.2 FEEDER: _____"C, 3#____, 1#____ GND.

120-VOLT CONTROL (PUMP TEMPERATURE, MOISTURE, 4 SPARES): 1"C, 8#14, 1#12 GND.

120-VAC INTRINSICALLY SAFE CIRCUITS (LEVEL SWITCHES, 4-SPARES): 1"C, 8#14, 1#12 GND. INTRINSICALLY SAFE LEVEL TRANSDUCER EXTENSION CABLE:

120-VAC PUMP DISCONNECT HEAT, AREA LIGHT, RECEPTACLE CIRCUIT: 1"C, 1#12 PHASE, 1#12 NEUTRAL, 1#12 GND.

- PROVIDE SUMP PUMP, FAN, RECEPTACLE CIRCUITS IF REQUIRED. 1"C, 3#12 PHASE, 2#12 NEUTRAL, 1#12 GND. PROVIDE SEAL ÖFF AT VALVE VAULT.
- 6 PROVIDE BACKFLOW PREVENTER HEAT TRACE CIRCUIT IF REQUIRED. 1"C, 1#12 PHASE, 1#12 NEUTRAL, 1#12 GND.
- 7 PROVIDE AREA LIGHT POWER AND CONTROL CIRCUIT. 3/4"C, 3#12 PHASE, 1#12 NEUTRAL, 1#12 GND.

1"PVC-RGS, RG-62 A/U COAX, 1#12 GND.

8 PROVIDE FLOW METER CABLE in 1" PVC-RGS CONDUIT. PROVIDE SEAL OFF AT METER VAULT.

- 9 POLE MOUNTED INDUCTIVELY COUPLED ELECTRODELESS LIGHT. UL LISTED OUTDOOR, 120 VOLT HIGH POWER FACTOR BALLAST, 150 WATT INDUCTION LAMP, REDUCED SPILL FLOOD LIGHT DISTRIBUTION. SYLVANIA ICETRON OR APPROVED EQUAL. MOUNTED ON 15' POLE. PROVIDE MOUNTING POLE, TRUNNION SLIP FITTER AND YOKE FOR FULLY ADJUSTABLE AIMING. PROVIDE MOTION SENSOR MOUNTED AT 12'-0".
- (10) KEYED, MAINTAINED CONTACT, INDUSTRIAL GRADED DOUBLE POLE, DOUBLE THROW, CENTER OFF 20 AMP SWITCH MOUNTED IN CAST OUTLET BOX. HUBBELL HBL 1386L WITH (3) SPARE KEYS HUBBELL HBL 1209.
- (11) WEATHERPROOF MOTION SENSOR
- (12) GROUND ELECTRODE CONDUCTOR: #4 BARE CU.

GENERAL NOTES:

- A. THE CONTRACTOR SHALL REQUEST UTILITY LOCATION 48 HOURS PRIOR TO EXCAVATION. CONTACT THE OREGON UTILITY NOTIFICATION CENTER.
- B. UNLESS OTHERWISE NOTED, ALL UNDERGROUND CONDUITS SHALL BE RIGID PVC, SCH. 40.
- C. ALL CONDUITS ABOVE GROUND SHALL BE PVC COATED RIGID STEEL.
- D. THESE ARE CONCEPTUAL SUBMERSIBLE PUMP STATION DRAWINGS INTENDED TO DEFINE THE CITY OF GRESHAM'S PREFERRED APPROACH. THE DRAWINGS ARE NOT DIRECTLY APPLICABLE TO ANY SITUATION. THESE PLANS ARE INTENDED MERELY AS GUIDANCE TO A PROFESSIONAL ENGINEER WHO WILL BE RESPONSIBLE FOR THE DESIGN OF SPECIFIC PROJECTS.

NEC AREA CLASSIFICATIONS:

PROVIDE CONDUIT SEAL-OFFS ON ALL CONDUITS TERMINATING IN THE HAZARDOUS AREAS.

PROCESS/	NEC-AREA	NFPA 820
PUMPING AREA	CLASSIFICATION	REFERENCE
WET WELL	DIVISION 1	TABLE 2-2-16a
VALVE VAULT	DIVISION 2	TABLE 2-2-31a
METER VAULT	DIVISION 2	TABLE 2-2-36a
	ALL CLASS I,	
	GROUP D	



		UMBER:	PROJECT NUMBER:	TIME/FILENAME 08/08/05 12:30 F01.dwg	DATE/TIME/FILENAME
A					
	RANGE	TWP.	SECTION		LOCATION:
0		LEGAL		ELECTRICAL SITE PLAN & DETAILS	SHEET NAME:
	E01.dwg	E01	FILE:	SIANDARD SEWAGE FOMF	
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	3000	TOLIOTIV		ners. All information MUSI BE FIELD VEKIFIED to substantiate its validit	it used by othe
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