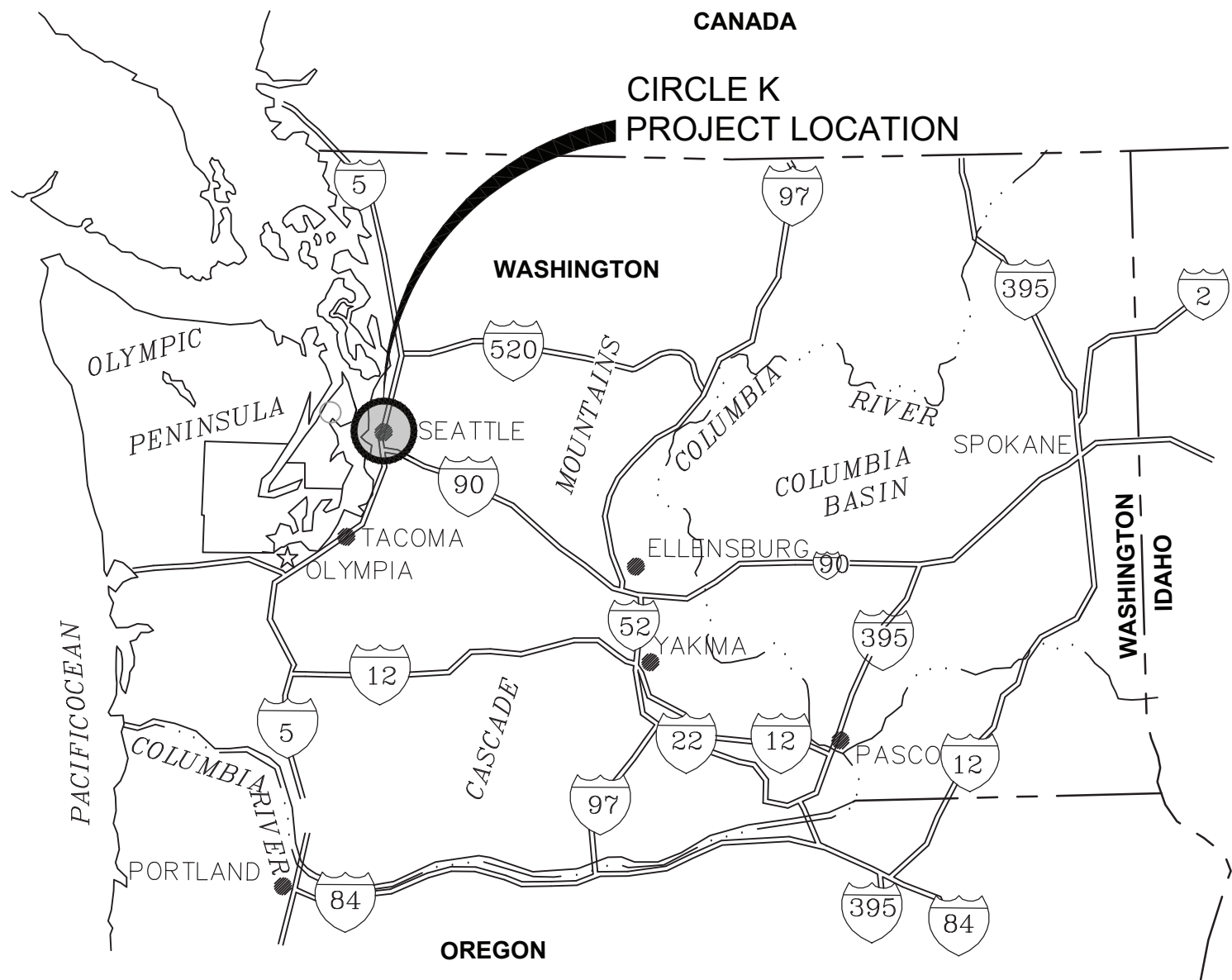


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User: RICHARD HILLS
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LOCATION MAP
SCALE: NTS



VICINITY MAP
SCALE: NTS



SITE: CIRCLE K 1461, CSID #5089
**PROJECT: ENVIRONMENTAL REMEDIATION
SYSTEM INSTALLATION**
LOCATION: 2350 24TH AVE E,
SEATTLE, KING COUNTY, WASHINGTON 98112

BUILDING	CODE SUMMARY - 2018 SBC (SEATTLE BUILDING CODE)	
	2018 SEBC (SEATTLE EXISTING BUILDING CODE)	
FILTRATION SEABOX	HISTORIC PERMIT NUMBER	674948
	PROJECT DESCRIPTION	A TEMPORARY TREATMENT SYSTEM ENCLOSURE, ALONG WITH ACCESSORY EQUIPMENT FOR REMEDIATION OF ON-SITE GROUNDWATER CONTAMINATION, WILL BE PLACED IN THE PARKING LOT OF AN EXISTING RETAIL BUSINESS. TEMPORARY FENCING TO BE PLACED AROUND THE ENCLOSURE AND ACCESSORY EQUIPMENT.
	CONSTRUCTION TYPE	TYPE V-B PER SBC 602.5
		MODIFIED METAL SHIPPING CONTAINER TO HOUSE
		REMEDIATION PROCESSING EQUIPMENT AND SUPPLIES
	BUILDING ELEMENT FIRE RESISTANCE	0-HOUR RATING AS PER SBC TABLE 601 FOR TYPE V-B CONSTRUCTION.
	EXTERIOR WALL FIRE RESISTANCE (BASED ON SEPARATION DISTANCE)	0-HOUR RATING AS PER CBC TABLE 602 FOR TYPE V-B CONSTRUCTION.
	ALLOWABLE AREA	13,000 SF PER SBC TABLE 506.2
	ACTUAL AREA	160 SF
	ALLOWABLE HEIGHT	40'-0" FEET / 1-STORY PER SBC TABLES 504.3 AND 504.4
	ACTUAL HEIGHT / STORY	9'-0"+/- FEET / 1-STORY
	OCCUPANCY CLASSIFICATIONS	F-2 LOW HAZARD INDUSTRIAL PER SBC 306.3
	OCCUPANCY SEPARATIONS	NOT APPLICABLE
	OCCUPANT LOAD	2 PER SBC TABLE 1004.5
	HVAC	CONDITIONED FOR FREEZE PROTECTION
APPLICABLE CODES	VENTILATION	PROVIDED PER SBC SECTION 1202.1
	ALLOWABLE OPENING AREA	10% PER SBC TABLE 705.8
	ENERGY CODE	
	INSULATION - ROOF	R-10 RIGID INSULATION
	INSULATION - ABOVE GRADE WALLS	R-13 RIGID INSULATION
	ACCESSIBILITY	NOT REQUIRED PER SBC SECTION 1103.2.9
	CHEMICAL STORAGE	NON-HAZARDOUS; SEE ATTACHED CHEMICAL LIST
	SPRINKLER SYSTEM	NOT REQUIRED PER SBC SECTION 903.2.4
	SMOKE DETECTION	NOT REQUIRED PER SBC SECTION 909
	SMOKE AND HEAT VENTS	NOT REQUIRED PER SBC SECTION 910
	FIRE ALARM	NOT REQUIRED PER SBC SECTION 907.2.4
	FIRE PROTECTION REQUIREMENTS	1 HYDRANT WITHIN 250' OF STRUCTURE
	FIRE FLOW	1,500 GPM FOR 2 HOURS PER SFC TABLE B105.1(2)
	2018 SEATTLE BUILDING CODE (SBC)	
	2018 SEATTLE EXISTING BUILDING CODE (SEBC)	
	2020 NATIONAL ELECTRICAL CODE (NEC)	
	WITH 2020 SEATTLE ELECTRICAL CODE REPLACEMENT PAGES	
	2018 SEATTLE ENERGY CODE	
	2018 SEATTLE FIRE CODE	
	2024 SEATTLE MUNICIPAL CODE, TITLE 23 - LAND USE CODE	
	2018 SEATTLE MECHANICAL CODE	
	2018 SEATTLE PLUMBING CODE	



DRAWING INDEX

SHEET NO.	DWG. NO.	DRAWING TITLE
GENERAL		
1	G-01	TITLE SHEET, VICINITY AND LOCATION MAPS, AND DRAWING INDEX
2	G-02	NOTES AND ABBREVIATIONS
3	G-03	LEGEND AND SYMBOLS
4	G-04	TREATMENT SYSTEM SCHEMATIC
5	G-05	PROCESS FLOW DIAGRAM
CIVIL		
6	C-01	OVERALL SITE PLAN AND SYSTEM LAYOUT
7	C-02	SITE PLAN STAGING AREAS
8	C-03	REMEDIATION SYSTEM LAYOUT
9	C-04	CIVIL SECTIONS AND DETAILS - I
10	C-05	CIVIL SECTIONS AND DETAILS - II
11	C-06	SITE PLAN PARKING AREAS
12	C-07	CONTAINER ELEVATION VIEWS
ELECTRICAL		
13	E-01	GENERAL ELECTRICAL ABBREVIATIONS AND NOTES
14	E-02	GENERAL ELECTRICAL LEGEND - I
15	E-03	GENERAL ELECTRICAL LEGEND - II
16	E-04	ELECTRICAL PANEL SCHEDULE AND THREE LINE DIAGRAM
17	E-05	ELECTRICAL SITE PLAN
INSTRUMENTATION		
18	I-01	P&ID LEGEND
19	I-02	P&ID - I
20	I-03	P&ID - II
21	I-04	P&ID - III
STORMWATER, DRAINAGE, AND WASTEWATER CONTROL		
22	SDW-01	CONSTRUCTION STORMWATER CONTROL AND POST CONSTRUCTION SOIL MANAGEMENT (CSC/SOIL) PLAN
23	SDW-02	DRAINAGE AND WASTEWATER CONTROL (DWC) PLAN
STRUCTURAL		
24	S-1.10	GENERAL STRUCTURAL NOTES, FRAMING PLANS, AND DETAILS

AS BUILT DRAWINGS PREPARED BY
GLACIER ENVIRONMENTAL SERVICES INC.

LEGEND

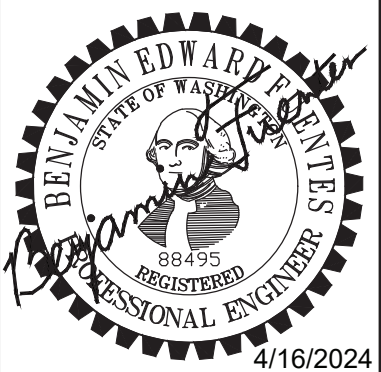
— As-Built Conditions/Changes to New Work
— Found Pipes (Old)

THE CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION &
INSPECTIONS
APPROVED
Subject to Errors and Omissions
05/17/2024

ISSUED FOR PERMIT

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4/16/2024



WASHINGTON STATE DEPARTMENT OF ECOLOGY
BELLEVUE, WASHINGTON
CIRCLE K SITE 1461 ENVIRONMENTAL
REMEDIATION SYSTEM INSTALLATION
SEATTLE, WASHINGTON

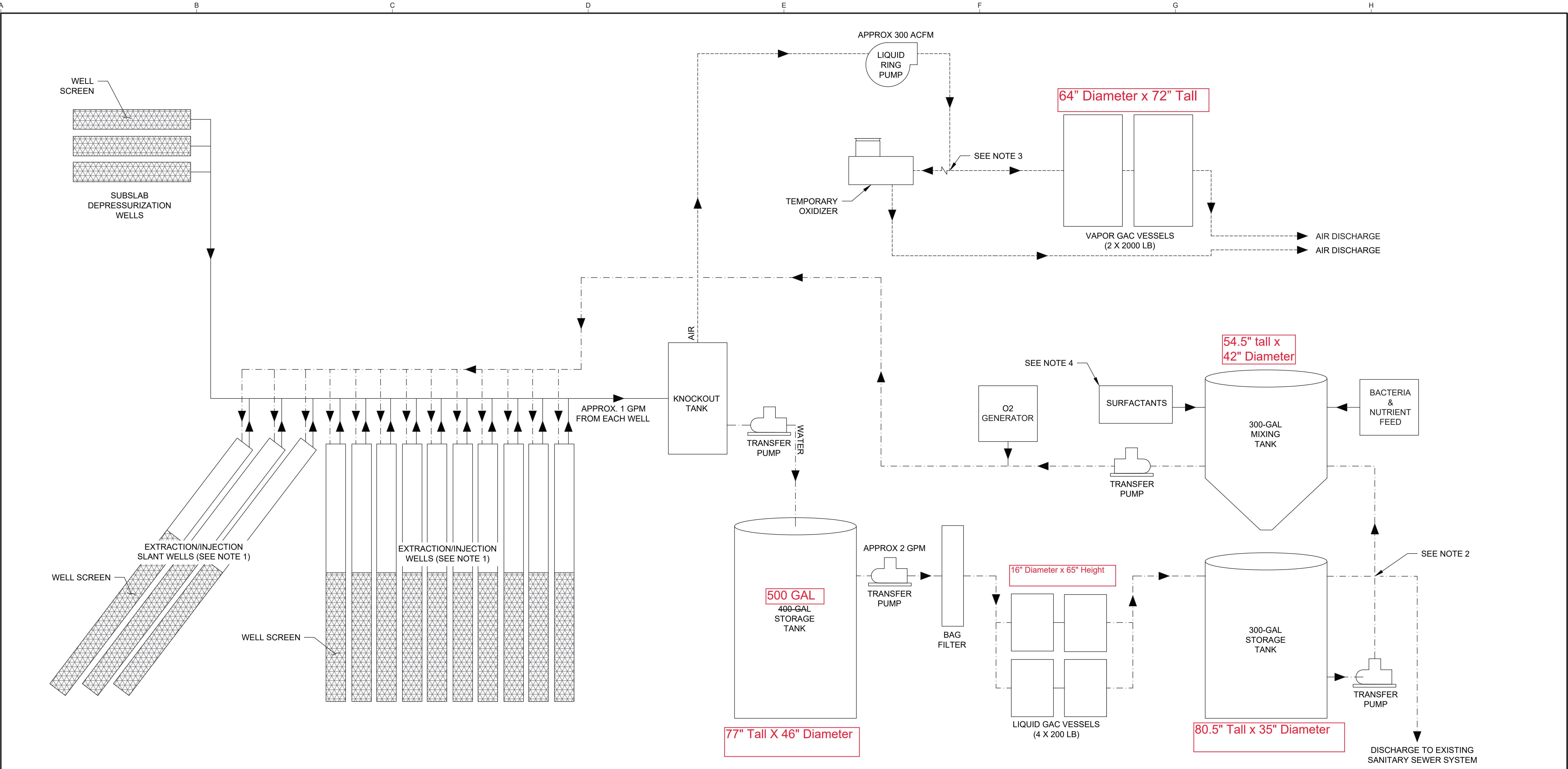
K Kennedy Jenks

TITLE SHEET, VICINITY AND LOCATION MAPS,
AND DRAWING INDEX

SCALE
AS SHOWN
JOB NO
2196008.00
DATE
APRIL 2024
SHEET 1 OF 24
G-01

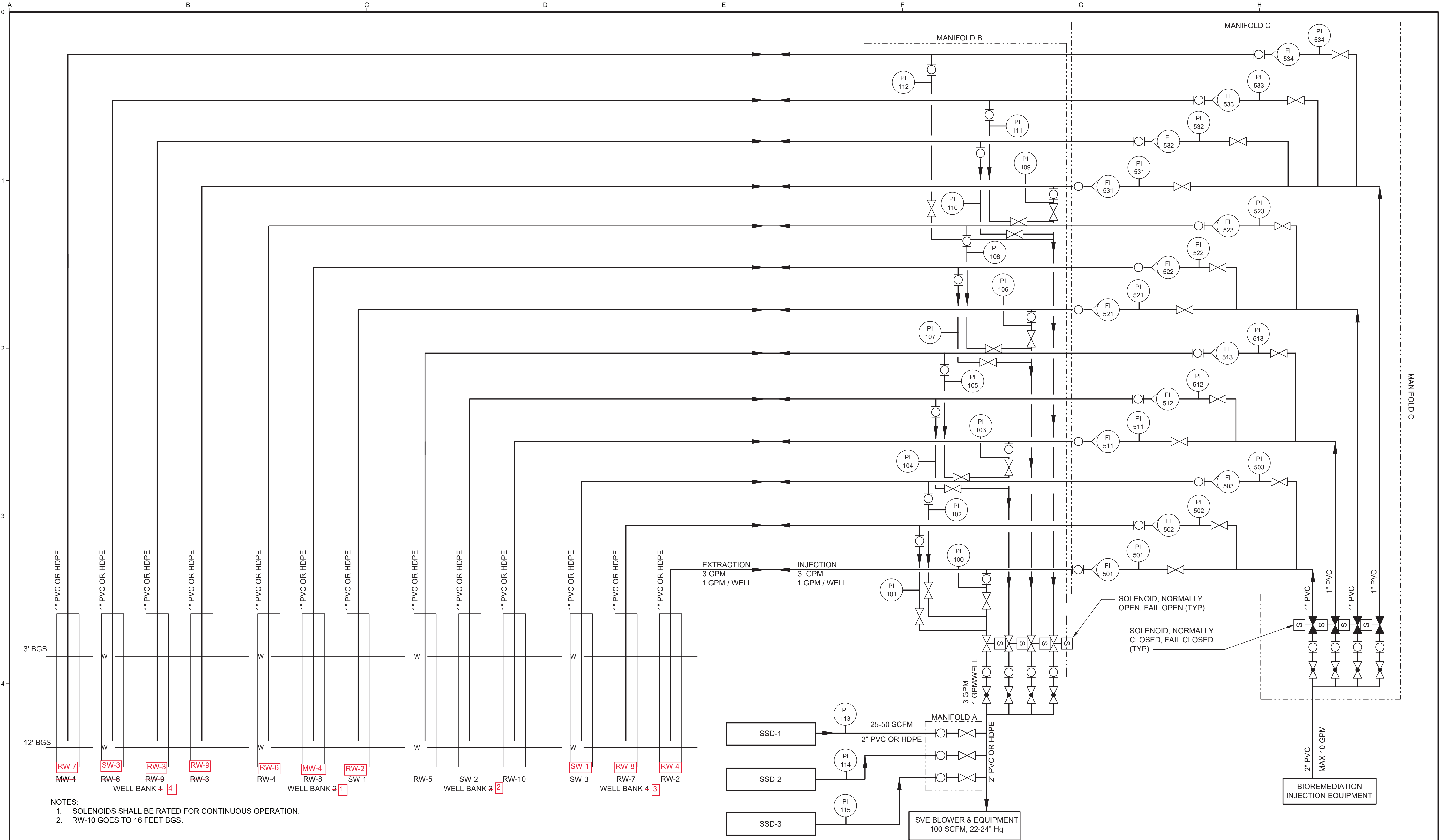
ABBREVIATIONS		NOTES			
<div><div>'</div><div>FOOT, FEET</div><div>"</div><div>INCH, INCHES</div><div>&</div><div>AND</div><div>AC</div><div>ASPHALTIC CONCRETE, ALTERNATING CURRENT</div><div>ACFM</div><div>ACTUAL CUBIC FEET PER MINUTE</div><div>AW</div><div>ASPHALT WALK</div><div>BGS</div><div>BELOW GROUND SURFACE</div><div>BLRD</div><div>BOLLARD</div><div>CB</div><div>CATCH BASIN, CIRCUIT BREAKER</div><div>CFM</div><div>CUBIC FEET PER MINUTE</div><div>CLR</div><div>CLEARANCE</div><div>CONC</div><div>CONCRETE</div><div>CRZ</div><div>CRITICAL ROOT ZONE</div><div>CSBC</div><div>CRUSHED SURFACING BASE COURSE</div><div>CW</div><div>CONCRETE WALK</div><div>DO</div><div>DISSOLVED OXYGEN</div><div>DRWY</div><div>DRIVEWAY</div><div>DS</div><div>DOWN SPOUT</div><div>ECAB</div><div>ELECTRICAL CABINET</div><div>EHH</div><div>ELECTRIC HANDHOLE</div><div>EM</div><div>ELECTRIC METER</div><div>EXIST</div><div>EXISTING</div><div>FFE</div><div>FINISHED FLOOR</div><div>FLT</div><div>FINISHED FLOOR ELEVATION</div><div>FLT</div><div>FILTER</div><div>FT</div><div>FEET</div><div>G</div><div>GAS</div><div>GAC</div><div>GRANULAR ACTIVATED CARBON</div><div>GAL</div><div>GALLON(-S)</div><div>GPM</div><div>GALLONS PER MINUTE</div><div>HDPE</div><div>HIGH DENSITY POLYETHYLENE</div><div>HG</div><div>MERCURY</div><div>HP</div><div>HIGH-PERFORMANCE POLYPROPYLENE</div><div>HYD</div><div>HYDRANT</div><div>IBC</div><div>INTERNATIONAL BUILDING CODE</div><div>IE</div><div>INVERT ELEVATION</div><div>LB(-S)</div><div>POUND(-S)</div><div>MAX</div><div>MAXIMUM</div><div>MIC</div><div>MONUMENT IN CASE</div><div>MIL(-S)</div><div>ONE-THOUSANDTH OF AN INCH</div><div>MIN</div><div>MINIMUM</div><div>MPT</div><div>MALE PIPE THREAD</div><div>MW</div><div>MONITORING WELL</div><div>(N)</div><div>NEW</div><div>NFPA</div><div>NATIONAL FIRE PROTECTION ASSOCIATION</div><div>NTS</div><div>NOT TO SCALE</div><div>OP</div><div>OVERHEAD POWER</div><div>O2</div><div>OXYGEN</div><div>OX</div><div>OXIDIZER</div><div>P</div><div>UNDERGROUND POWER</div><div>PED SIG</div><div>PEDESTRIAN SIGNAL</div><div>PLC</div><div>PROGRAMMABLE LOGIC CONTROLLER</div><div>PSE</div><div>PUGET SOUND ENERGY</div><div>PLT</div><div>POWER POLE WITH LUMINAIRE</div><div>PVC</div><div>POLYVINYL CHLORIDE</div><div>RW</div><div>REMEDICATION WELL</div><div>SCADA</div><div>SUPERVISORY CONTROL AND DATE ACQUISITION</div><div>SCFM</div><div>STANDARD CUBIC FEET PER MINUTE</div><div>SD</div><div>STORM DRAIN</div><div>SDMH</div><div>STORM DRAIN MANHOLE</div><div>SDOT</div><div>SEATTLE DEPARTMENT OF TRANSPORTATION</div><div>SS</div><div>SANITARY SEWER</div><div>SSD</div><div>SUB-SLAB DEPRESSURIZATION</div><div>SW</div><div>SLANT WELL</div><div>TYP</div><div>TYPICAL</div><div>VFD</div><div>VARIABLE FREQUENCY DRIVE (AC)</div><div>VP</div><div>VAPOR PIN</div><div>W</div><div>WATER, WIDE, WIDTH, WIRE</div><div>WM</div><div>WATER METER</div><div>WV</div><div>WATER VALVE</div><div>YD</div><div>YARD DRAIN</div></div>		<div><div>GENERAL</div><div>9:00 AM TO 10:00PM, WEEKENDS AND HOLIDAYS.</div><div>3. CONTRACTOR SHALL SUBMIT A NOISE CONTROL WORK PLAN MEETING THE REQUIREMENTS SPECIFIED IN SPECIFICATIONS 01 57 19.12.</div><div>TREE PROTECTION NOTES</div><div>1. CONTRACTOR SHALL PREPARE A TREE, VEGETATION AND SOIL PROTECTION PLAN (TVSPP), IF WORK FALLS WITHIN CRITICAL ROOT ZONE A. NOTE AND PHOTOGRAPH CONDITIONS AND MATERIALS IN EXISTING TREE PITS INCLUDING PAVERS FOR REVIEW BY SDOT URBAN FORESTRY.</div><div>2. CONTRACTOR SHALL NOTIFY THE ENGINEER AND SDOT URBAN FORESTRY 72 HOURS MIN. PRIOR TO BOTH DEMOLITION AND EXCAVATION WITHIN THE TREE DRIP LINE.</div><div>3. AIR SPADING REQUIRED</div><div>ALL TRENCH EXCAVATION IN THE TREE DRIPLINE SHALL BE PERFORMED TO FULL DEPTH AND WIDTH OF EXCAVATION WITH AN AIRSPADE UNDER THE SUPERVISION OF SDOT URBAN FORESTRY ARBORIST. WATER SLUICING IS NOT ALLOWED. RETAIN ALL STRUCTURAL ROOTS (1 INCH OR GREATER) ACROSS TRENCHES. SDOT URBAN FORESTRY ARBORIST TO DIRECT ROOT PRUNING IF NECESSARY.</div><div>4. AVOID DAMAGE TO ROOTS DURING CONCRETE SAWCUTTING, DEMOLITION, EXCAVATION AND TRENCHING.</div><div>5. REMOVE PAVEMENT WITHIN TREE DRIPLINE BY SAWCUTTING FREQUENTLY (12 TO 18-INCHES O.C.) TO ALLOW SMALL PIECES TO BREAK OUT. IF PART OF PAVEMENT IS FIRMLY ATTACHED TO ROOTS GREATER THAN 1-INCH, PRUNE ROOTS UNDER SUPERVISION OF SDOT URBAN FORESTRY ARBORIST.</div><div>6. PROTECT TREE ROOTS AFTER EXPOSURE DUE TO CONCRETE REMOVAL, AIRSPADING AND OTHER CONSTRUCTION ACTIVITY. ONLY EXCAVATE AND EXPOSE AREAS OF ROOTS THAT CAN BE BACKFILLED AND COVERED WITHIN ONE WORKING DAY. MAINTAIN MOIST SUBGRADE CONDITIONS UNTIL NEW CONCRETE IS INSTALLED.</div><div>7. TRENCH BACKFILL IN CRITICAL ROOT ZONE SHALL BE COS MINERAL AGGREGATE TYPE 24 OR 22. USE OF BACKHOE IN TREE DRIPLINE IS PROHIBITED.</div><div>8. KEEP TREE ADEQUATELY WATERED UNTIL SIDEWALK IS REPLACED.</div><div>GENERAL NOTES FOR SDOT STREET IMPROVEMENT PLANS</div><div>1. ALL WORK SHALL CONFORM TO THE 2023 EDITION OF CITY OF SEATTLE STANDARD SPECIFICATIONS, THE 2023 EDITION OF THE CITY OF SEATTLE STANDARD PLANS; AND SEATTLE DEPARTMENT OF TRANSPORTATION DIRECTOR'S RULE 01-2017 RIGHT-OF-WAY OPENING AND RESTORATION RULES. A COPY OF THESE DOCUMENTS SHALL BE ON SITE DURING CONSTRUCTION.</div><div>2. A COPY OF THE APPROVED PLAN MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.</div><div>3. ERRORS AND OMISSIONS ON THE PERMITTED PLANS MUST BE CORRECTED BY THE ENGINEER AND APPROVED BY THE CITY OF SEATTLE.</div><div>4. ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT OF WAY MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.</div><div>5. PRIOR TO THE START OF CONSTRUCTION WITHIN THE RIGHT OF WAY, THE PERMITTEE SHALL SCHEDULE AND ATTEND A PRECONSTRUCTION MEETING WITH THE CITY OF SEATTLE DEPARTMENT OF TRANSPORTATION.</div><div>6. PERMITTEE SHALL CONTACT SEATTLE DEPARTMENT OF TRANSPORTATION. STREET USE INSPECTOR A MINIMUM OF 2 BUSINESS DAYS PRIOR TO NEEDING AN INSPECTION.</div><div>7. ALL DAMAGE TO CITY INFRASTRUCTURE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPORTED AND REPAIRED AS REQUIRED BY THE SEATTLE DEPARTMENT OF TRANSPORTATION. TO REPORT DAMAGE TO SPU INFRASTRUCTURE, INCLUDING ANY SEWAGE RELEASE OR BLOCKAGE, CALL 206-386-1800.</div><div>8. THE APPROVED PLANS SHALL SHOW THE APPROXIMATE AREA OF PAVEMENT RESTORATION BASED ON THE DEPTH OF UTILITY CUTS AND/OR THE AREA OF CURB AND/OR PAVEMENT TO BE REMOVED AND REPLACED. THE ACTUAL LIMITS OF THE PAVEMENT RESTORATION SHALL BE PER THE DIRECTOR'S RULE 01-2017.</div><div>RIGHT-OF-WAY OPENING AND RESTORATION RULE AND WILL BE DETERMINED IN THE FIELD BY THE SEATTLE DEPARTMENT OF TRANSPORTATION STREET USE INSPECTOR PRIOR TO THE PAVEMENT RESTORATION. FOR SPU WATER SERVICES, APPLICANT MUST SHOW THE PAVEMENT RESTORATION LIMITS FOR THE PROPOSED AND THE EXISTING WATER SERVICES TO BE RETIRED, INCLUDING SERVICES THAT ARE OUTSIDE THE PROJECT AREA, BUT SERVE THE PARCEL.</div><div>9. DATUM: NAVD88 AND NAD 83 (2011) 2010.00 EPOCH.</div><div>10. SURVEYING AND STAKING OF ALL IMPROVEMENTS IN THE PUBLIC RIGHT OF WAY SHALL BE COMPLETED PRIOR TO CONSTRUCTION. PERMITTEE TO STAKE THE CURB AT THE CENTERLINE OF DRAINAGE GRATES PER STANDARD PLAN 260A. SURVEY GRADE SHEETS MUST BE SUBMITTED AND APPROVED BY THE SEATTLE DEPARTMENT OF TRANSPORTATION AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.</div><div>11. IF AN EXISTING CURB IS TO BE REMOVED AND REPLACED IN THE SAME LOCATION THE PERMITTEE SHALL PROVIDE THE STREET USE INSPECTOR A PLAN WITH EXISTING FLOW LINE AND TOP OF CURB ELEVATIONS IDENTIFIED. PERMITTEE TO STAKE THE LOCATION OF THE EXISTING CURB PRIOR TO DEMOLITION.</div><div>12. THE PERMITTEE MUST BE RESPONSIBLE FOR REFERENCING AND REPLACING ALL SURVEY MONUMENTS THAT MAY BE DISTURBED, DESTROYED OR REMOVED BY THE PROJECT AND 2 WORKING DAYS, PRIOR TO THE WORK. MUST FILE AN APPLICATION FOR PERMIT TO REMOVE OR DESTROY A SURVEY MONUMENT WITH THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, PURSUANT TO WAC 332-120. THE PERMITTEE MUST PROVIDE THE ENGINEER AND SPU LAND SURVEY WITH A COPY OF THE APPROVED PERMIT AND COMPLETION REPORT. SEE STANDARD SPECIFICATION 1-07.28 ITEM 17.</div><div>13. THE PERMITTEE SHALL SUBMIT ALL APPLICABLE DOCUMENTS REQUIRED UNDER SECTION 1-05.3 OF THE STANDARD SPECIFICATIONS PRIOR TO CONSTRUCTION. A MATERIAL SOURCE FORM FOR ALL MATERIALS TO BE PLACED IN THE RIGHT OF WAY AND MIX DESIGNS FOR ALL ASPHALT, CONCRETE AND AGGREGATES TO BE PLACED IN THE RIGHT OF WAY MUST BE SUBMITTED TO THE SEATTLE DEPARTMENT OF TRANSPORTATION FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION. A REVISED MATERIAL SOURCE FORM AND MIX DESIGNS MUST BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF ANY SUBSTITUTE MATERIALS.</div><div>14. THE PERMITTEE SHALL NOTIFY THE SEATTLE FIRE DEPARTMENT DISPATCHER (206-386-1495) AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE PERMITTEE SHALL ALSO NOTIFY THE DISPATCHER OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.</div><div>15. THE PERMITTEE SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION.</div><div>16. THE PERMITTEE SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (811) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.</div><div>17. IT IS THE SOLE RESPONSIBILITY OF THE PERMITTEE TO VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.</div><div>18. THE PERMITTEE SHALL ADJUST ALL EXISTING MAINTENANCE HOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.</div><div>19. THE PERMITTEE SHALL FOLLOW SPU CORE TAP PROCEDURES FOR ALL NEW CONNECTIONS TO EXISTING SEWER OR DRAINAGE MAINS OR STRUCTURES. CONTRACTORS ARE NOT ALLOWED TO CORE INTO MAINS OR STRUCTURES WITHOUT PRIOR APPROVAL FROM SPU- DWW. TO SCHEDULE CORE CUT CONTACT SPU-DWW AT 206-615-0511 A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE.</div><div>20. ALL UTILITY SERVICE CONNECTIONS SHOWN ON THIS PLAN REQUIRE SEPARATE PERMITS.</div><div>21. THE PERMITTEE SHALL PROVIDE FOR ALL TESTING AS REQUIRED BY THE STREET USE INSPECTOR.</div><div>22. INSPECTION AND ACCEPTANCE OF ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE BY REPRESENTATIVES OF THE CITY OF SEATTLE. IT SHALL BE THE PERMITTEE'S RESPONSIBILITY TO COORDINATE AND SCHEDULE APPROPRIATE INSPECTIONS ALLOWING FOR PROPER ADVANCE NOTICE. THE SEATTLE DEPARTMENT OF TRANSPORTATION STREET USE INSPECTOR MAY REQUIRE REMOVAL AND RECONSTRUCTION OF ANY ITEMS PLACED IN THE RIGHT OF WAY THAT DO NOT MEET CITY STANDARDS OR</div></div>		<div>23. THAT WERE CONSTRUCTED WITHOUT APPROPRIATE INSPECTIONS.</div> <div>THE PERMITTEE SHALL PROVIDE A PLAN FOR STORMWATER AND EROSION CONTROL AND INSTALL, MAINTAIN AND REMOVE TEMPORARY FACILITIES PER SECTION 8-01. AS CONSTRUCTION PROGRESSES AND CONDITIONS DICTATE, ADDITIONAL CONTROL FACILITIES MAY BE REQUIRED. DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THE PERMITTEE'S ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.</div> <div>24. ALL DISTURBED SOILS MUST BE AMENDED PER STANDARD PLAN 142 AND SECTION 8-02 OF THE STANDARD SPECIFICATIONS UNLESS WITHIN ONE FOOT OF A CURB OR SIDEWALK, THREE FEET OF A UTILITY STRUCTURE (E.G. WATER METER, UTILITY POLE, HAND HOLE, ETC.), OR THE DRIPLINE OF AN EXISTING TREE.</div> <div>25. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF SEATTLE TRAFFIC CONTROL MANUAL FOR IN-STREET WORK. AN APPROVED TRAFFIC CONTROL PLAN WILL BE REQUIRED FOR ALL ARTERIAL STREETS, HIGH IMPACT AREAS AND CONSTRUCTION HUBS PRIOR TO BEGINNING CONSTRUCTION.</div> <div>26. PERMITTEE SHALL NOTIFY KING COUNTY METRO AT 206-477-1140 FOURTEEN DAYS IN ADVANCE OF ANY IMPACT TO TRANSIT OPERATIONS. CALL 206-477-1150 FOR ANY COORDINATION RELATED TO KING COUNTY METRO TROLLEY (INCLUDING SLU AND FIRST HILL STREET CAR). CONTACT KING COUNTY METRO TWO MONTHS PRIOR FOR ANY TROLLEY DE-ENERGIZING REQUESTS.</div> <div>27. COORDINATE PARKING/LOADING SIGN(S) AND PAY STATION REMOVAL / RELOCATION AND INSTALLATION WITH SEATTLE DEPARTMENT OF TRANSPORTATION CURB SPACE MANAGEMENT AT 206-684-5370 WITH AT LEAST 10 BUSINESS DAYS' NOTICE. SIGNPOSTS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD PLANS 616, 620, 621A, 621B, 625, & 626.</div> <div>28. ALL STREET NAME SIGNS MUST BE INSTALLED BY SEATTLE DEPARTMENT OF TRANSPORTATION AT THE PERMITTEE'S EXPENSE.</div> <div>29. ALL WORK PERFORMED BY SEATTLE CITY LIGHT, SEATTLE PUBLIC UTILITIES, AND OTHER UTILITIES TO INSTALL, REPAIR, REMOVE OR RELOCATE UTILITIES SHALL BE DONE AT THE PERMITTEE'S EXPENSE.</div> <div>30. PERMITTEE MUST CONTACT THE SEATTLE DEPARTMENT OF PARKS AND RECREATION TO APPLY FOR A SEPARATE PERMIT IF WORKING WITHIN A DESIGNATED PARK BOULEVARD.</div> <div>31. CARE SHALL BE EXERCISED WHEN EXCAVATING OR REMOVING PAVEMENT NEAR EXISTING CHARGED WATER MAINS. CAST IRON WATER MAINS ARE KNOWN TO BE SENSITIVE TO EXCESSIVE VIBRATION. COORDINATE PROTECTION METHODS WITH SPU.</div> <div>EXCAVATION</div> <div>1. PETROLEUM-IMPACTED SOIL IS PRESENT AT THE SITE. PETROLEUM-IMPACTED SOIL AND OTHER NATIVE MATERIAL GENERATED FROM EXCAVATIONS WILL BE FIELD SCREENED TO CONFIRM THE PRESENCE OF VOLATILE COMPOUNDS IN ACCORDANCE WITH SPECIFICATION 01 75 19. SOIL WILL BE PROFILED AND DISPOSED OF OFFSITE IN ACCORDANCE WITH SPECIFICATION 31 00 00.</div> <div>2. TRENCH EXCAVATION DEPTHS SHALL BE LESS THAN 3 FEET DEEP IN ALL AREAS. TRENCH SIDES SHALL BE VERTICAL IN PAVED AREAS, IN ACCORDANCE WITH SPECIFICATION 31 00 00. IN ACCORDANCE WITH SPECIFICATION 31 00 00 1.07, IF PEA GRAVEL IS ENCOUNTERED WITHIN TRENCH EXCAVATIONS, CONTRACTOR SHALL SLOPE TRENCH SIDES AT MINIMUM 1.5H:1V TO MAINTAIN SLOPE STABILITY OR USE TRENCH BOXES OR OTHER TEMPORARY SHORING EQUIPMENT, AS NEEDED.</div> <div>3. BUILDING FOUNDATIONS SHALL BE PROTECTED IN PLACE. CONTRACTOR SHALL STOP WORK IF BUILDING FOUNDATION IS DISCOVERED AND NOTIFY THE ENGINEER.</div> <div>4. CONTRACTOR SHALL BACKFILL AND COMPACT IN ACCORDANCE WITH SPECIFICATION 31 00 00 AND THE GEOTECHNICAL REPORT.</div>	




Plot Date: 4/16/2024 1:56 PM
User: RICHARD HILLS
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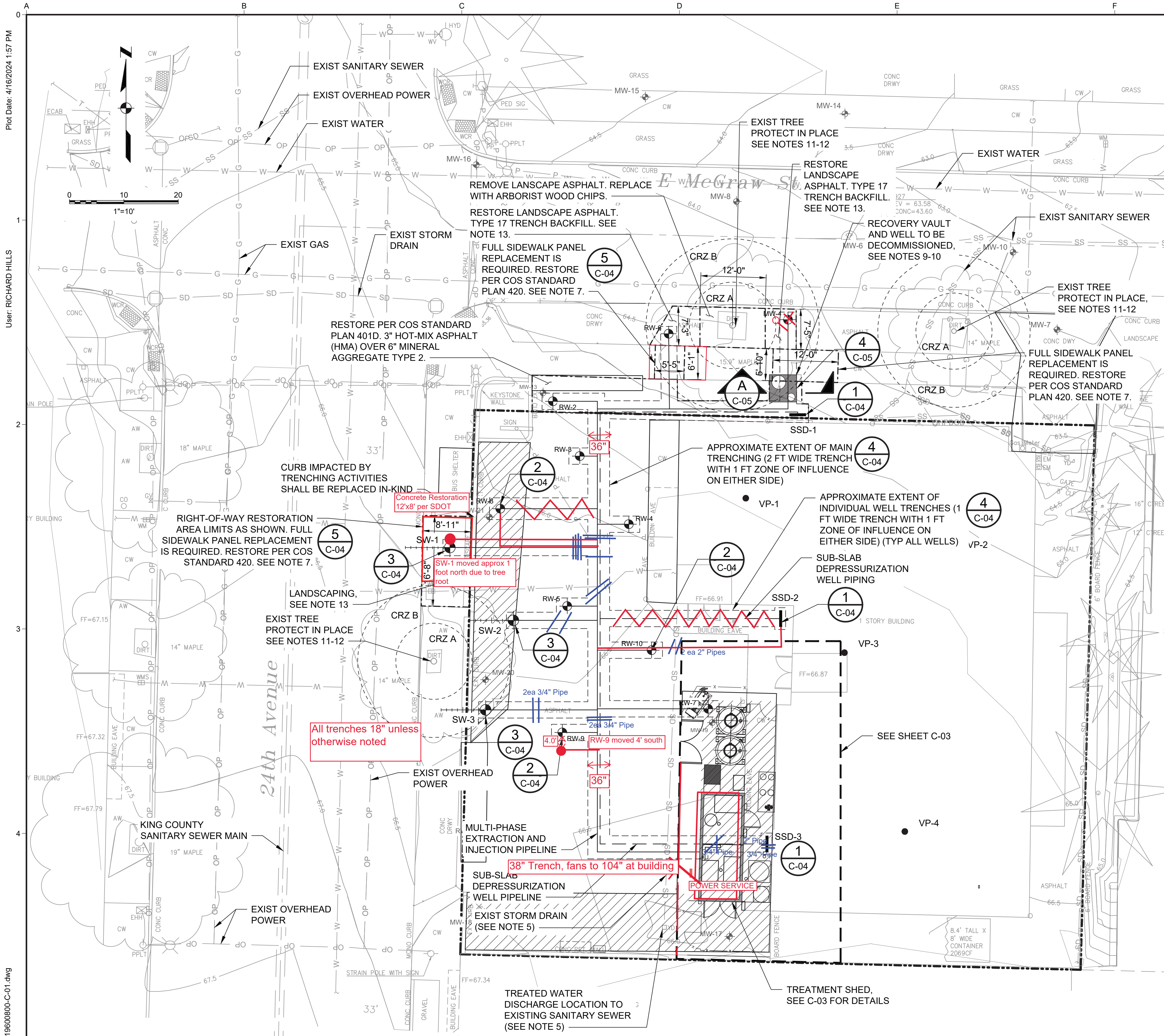


- REMEDATION SYSTEM OPERATION NOTES:
- THE FOLLOWING NOTES DESCRIBE SYSTEM OPERATIONS AFTER CONSTRUCTION, AND ARE INTENDED SOLELY TO INFORM THE CONTRACTOR OF DESIGN INTENTIONS AND GUIDE CONSTRUCTION EFFORTS.
- SYSTEM WILL BE OPERATED TO ALLOW WELLS USED FOR EXTRACTION TO ALSO BE USED FOR REINJECTION AND VICE VERSA. OPERATION OF WELLS FOR EXTRACTION OR REINJECTION WILL BE BASED ON SITE CONDITIONS, WELL LOCATIONS, CONCENTRATIONS OF THE CONTAMINANTS OF CONCERN, AND THE OVERALL REMEDIATION PROGRESS.
 - GROUNDWATER INITIALLY EXTRACTED FROM THE SYSTEM IS EXPECTED TO BE DISCHARGED TO THE SANITARY SEWER VIA GRAVITY. ONCE GROUNDWATER CONCENTRATIONS ARE AMENABLE TO BIOREMEDIATION VIA REINJECTION, WATER WILL BE TRANSFERRED TO MIXING TANK FOR AMENDMENT PRIOR TO REINJECTION. EXCESS WATER WILL GRAVITY FLOW TO THE SANITARY SEWER. VOLUMES AND FLOW RATES WILL BE DETERMINED DURING OPERATION.
 - VAPOR WILL BE DIRECTED THROUGH THE TEMPORARY OXIDIZER FOR THE FIRST SEVERAL MONTHS OF OPERATION UNTIL CONCENTRATIONS OF THE CONTAMINANTS OF CONCERN HAVE DECREASED TO A LEVEL SUITABLE FOR TREATMENT VIA THE VAPOR GAC VESSELS. THE OXIDIZER WILL THEN BE REMOVED AND VAPOR WILL BE DIRECTED THROUGH THE GAC VESSELS PRIOR TO DISCHARGE.
 - SURFACTANTS WILL BE ADDED FIRST TO THE WATER PRIOR TO REINJECTION TO RELEASE ADDITIONAL HYDROCARBONS FROM THE SOIL. THEN BACTERIA AND NUTRIENT FEED WILL BE ADDED TO THE WATER PRIOR TO REINJECTION TO CREATE A MICROBIAL POPULATION TO DEGRADE THE HYDROCARBONS IN SITU.

ISSUED FOR PERMIT						DESIGNED CMW DRAWN CMW CHECKED BEF	 WASHINGTON STATE DEPARTMENT OF ECOLOGY BELLEVUE, WASHINGTON CIRCLE K SITE 1461 ENVIRONMENTAL REMEDATION SYSTEM INSTALLATION SEATTLE, WASHINGTON 	TREATMENT SYSTEM SCHEMATIC 	SCALE AS SHOWN
									JOB NO 2196008.00
									DATE APRIL 2024
	NO	REVISION	DATE	BY					SHEET 4 OF 24 G-04



ISSUED FOR PERMIT									DESIGNED	 <div>WASHINGTON STATE DEPARTMENT OF ECOLOGY BELLEVUE, WASHINGTON CIRCLE K SITE 1461 ENVIRONMENTAL REMEDATION SYSTEM INSTALLATION SEATTLE, WASHINGTON</div>	PROCESS FLOW DIAGRAM <div></div>				SCALE AS SHOWN
ANY PRINTS NOT BEARING THIS STAMP MAY HAVE BEEN PRINTED PRIOR TO ADVERTISING AND CANNOT BE CONSIDERED AS BID DOCUMENTS. USERS OF THIS DOCUMENT IN EDITABLE ELECTRONIC FORMATS ARE CAUTIONED AGAINST USE WITHOUT FIRST DETERMINING WHETHER CHANGES MAY HAVE BEEN MADE SUBSEQUENT TO ITS PREPARATION.									JMF						JOB NO 2196008.00
									JMF						DATE APRIL 2024
									CHECKED						 Kennedy Jenks
				NO	REVISION	DATE	BY		LGR	G-05					
									4/16/2024						



GENERAL SHEET NOTES

- WELL TERMINOLOGY:
1A. MW = EXISTING MONITORING WELL
1B. RW = REMEDIATION WELL (EITHER EXISTING OR TO BE INSTALLED)
1C. VP = VAPOR MONITORING PIN TO BE INSTALLED
1D. SW = SLANT WELL TO BE INSTALLED
- SLANT WELLS SHALL BE INSTALLED AT 30 DEGREES TO A DEPTH OF 20 FEET. HORIZONTAL EXTENT (APPROXIMATELY 10 FEET) SHOWN ON PLAN VIEW. RADIUS OF INFLUENCE OF SLANT WELLS CENTERED OVER MIDPOINT OF WELL CASING SHOWN.
- VAPOR PINS ARE SHOWN AT APPROXIMATE LOCATIONS. EXACT LOCATIONS SHALL BE COORDINATED WITH ENGINEER AND OWNER.
- ABOVEGROUND REMEDIATION SYSTEM PIPING IS SHOWN ON SHEET C-02.
- STORM DRAIN IS CONNECTED TO SANITARY SEWER.
- CONTRACTOR SHALL RELOCATE ALL EXISTING SIGNAGE TO CHAIN LINK FENCE, OR TO POSTS WEST OF THE FENCE.
- TRENCHING LIMITS THAT IMPACT CONCRETE SIDEWALK SHALL BE RESTORED PER CITY OF SEATTLE (COS) STANDARD PLAN NO. 420 (SEE DETAIL 5 ON SHEET C-04). ASPHALT WALKWAY AND SIDEWALK PANEL TO BE REPLACED PER SEATTLE DEPARTMENT OF TRANSPORTATION DIRECTOR'S RULE 01-2017. TRENCH BACKFILL SHALL CONSIST OF CONTROL DENSITY FILL PER CITY OF SEATTLE STANDARD SPECIFICATION 2-10.2(3)A2 (EXCEPT WITHIN 10 FEET OF STEAM PIPES PER DIRECTOR'S RULE 01-2017 7.4.2.1) OR MINERAL AGGREGATE TYPE 17 PER STANDARD SPECIFICATION 9-03.14 AND COMPACTED PER STANDARD SPECIFICATION 2.11.3(1).
- TRENCHING LIMITS SHOWN HEREON WITHIN PROPERTY BOUNDARY ARE APPROXIMATIONS ONLY. TRENCHING LIMITS IN RIGHT-OF-WAY SHALL BE ADHERED TO DURING CONSTRUCTION. EXACT TRENCHING LIMITS SHALL BE AT THE DISCRETION OF THE CONTRACTOR AND MINIMIZED TO THE EXTENT NECESSARY TO COMPLETE THE WORK. TRENCHING SHALL ONLY OCCUR WITHIN THE CIRCLE K PARKING LOT AND SURROUNDING SIDEWALK. TRENCHING SHALL NOT EXTEND INTO THE PAVED ROADWAYS. IF TRENCHING IMPACTS EXTRUDED CURB ON SITE, REPLACE CURBS TO MATCH EXISTING.
- WELL SHALL BE DECOMMISSIONED IN ACCORDANCE WITH ECOLOGY WAC 173-160-381 BY A DRILLER LICENSED IN THE STATE OF WASHINGTON. DRILLER SHALL FILE A NOTICE OF INTENT TO ECOLOGY TO DECOMMISSION THE WELL AND SUBMIT A DECOMMISSIONING REPORT TO ECOLOGY WITHIN 30 DAYS OF COMPLETION, PER WAC 173-160-141.
- WITHIN THE VAULT, NEATLY CUT AND REMOVE ANY EQUIPMENT AND PLUG ALL CONNECTIONS (INLETS, OUTLETS, OPENINGS, ETC.) PER DETAIL 4 ON SHEET C-05. FILL VAULT TO GRADE WITH BACKFILL PER DETAIL 4 ON SHEET C-04 ON SHEET C-04 AND SPECIFICATION SECTION 31 00 00. RESURFACE AND PAVE VAULT FOOTPRINT AND IMPACT SURROUNDING AREA IN ACCORDANCE WITH SPECIFICATION SECTION 32 12 16.13.
- CONTRACTOR SHALL PROTECT TREES AND VEGETATION IN RIGHT-OF-WAY DURING DRILLING AND TRENCHING IN ACCORDANCE WITH CITY OF SEATTLE STANDARD SPECIFICATION 8-01.3(2)B AND STANDARD PLAN 133. EXCAVATION IS NOT ALLOWED IN CRITICAL ROOT ZONE A (CRZ A). FIELD ADJUSTMENTS MAY BE ALLOWED TO MODIFY TRENCH LIMITS AND/OR DRILLING LOCATIONS IF NECESSARY TO PROTECT TREE ROOTS IN PLACE. PROPOSED FIELD ADJUSTMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL PROTECT TREES IN ACCORDANCE WITH CITY OF SEATTLE STANDARD PLAN 132A FOR WORK LASTING MORE THAN 30 DAYS AND PLAN 132B FOR WORK LASTING 30 DAYS OR LESS. IF PAVEMENT AROUND TREE IS IMPACTED, RESTORE TREE PIT IN ACCORDANCE WITH CITY OF SEATTLE STANDARD PLAN 424B.
- ANY LANDSCAPING (PLANTS, SOIL, MULCH, ETC.) IMPACTED BY CONTRACTOR ACTIVITIES SHALL BE RESTORED PER CITY OF SEATTLE STANDARD SPECIFICATION 8-01.3(2)B AND PLAN NO. 142. TRENCH BACKFILL SHALL CONSIST OF MINERAL AGGREGATE TYPE 17 PER CITY OF SEATTLE STANDARD SPECIFICATION 9-03.14 AND COMPACTED PER STANDARD SPECIFICATION 2.11.3(1).
- CONTRACTOR SHALL MAINTAIN A MINIMUM 4 FOOT WIDE WALKWAY BETWEEN EDGE OF WELLHEAD SKIRT AND FRONT OR BACK OF CURB, AS APPLICABLE.

NEW REMEDIATION WELLS TO BE INSTALLED

RW-8	N:236950.38	E:1278394.71
RW-9	N:236909.25	E:1278406.10
RW-10	N:236924.38	E:1278422.51

NEW SLANT WELLS TO BE INSTALLED

SW-1	N:236943.23	E:1278385.44
SW-2	N:236929.86	E:1278397.11
SW-3	N:236913.40	E:1278392.00

EXISTING MONITORING AND REMEDIATION WELLS

MW-4	N:236985.00	E:1278447.91
RW-2	N:236970.10	E:1278404.38
RW-3	N:236960.04	E:1278409.31
RW-4	N:236947.52	E:1278418.32
RW-5	N:236932.47	E:1278407.00
RW-6	N:236982.51	E:1278425.63
RW-7	N:236913.61	E:1278432.90

LEGEND

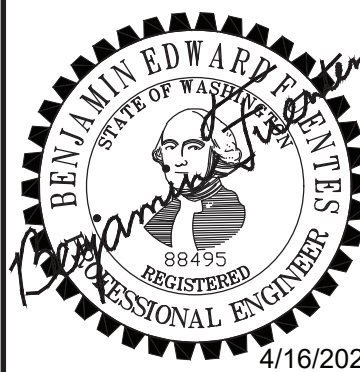
- WELL TO BE USED FOR EXTRACTION/INJECTION (NEW AND EXISTING, SEE NOTE 1 AND WELL TABLES BELOW)
- EXISTING WELL NOT USED FOR EXTRACTION/INJECTION
- NEW SLANT WELL (SEE NOTE 2)
- EXTRACTION AND INJECTION PIPING
- SUB-SLAB DEPRESSURIZATION PIPING
- SUB-SLAB DEPRESSURIZATION WELL
- APPROXIMATE EXTENT OF TRENCH (SEE NOTE 7 AND 8)
- CHAIN LINK FENCE
- VAPOR MONITORING PIN (SEE NOTE 3)
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING SANITARY SEWER LINE
- EXISTING UNDERGROUND ELECTRICAL LINE
- EXISTING STORM DRAIN
- PROPERTY BOUNDARY
- RIGHT-OF-WAY RESTORATION (SEE NOTES 7, 8, 11, 12 AND 13)
- CRITICAL ROOT ZONE EXTENTS

ISSUED FOR PERMIT

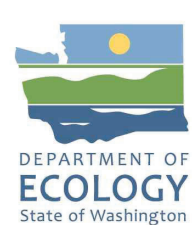
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2	SEATTLE BUILDING PERMIT	01/22/2024	CMW
1	SEATTLE DEPARTMENT OF TRANSPORTATION PERMIT	01/02/2024	CMW
NO	REVISION	DATE	BY

SCALES
0 10'



DESIGNED
CMW
DRAWN
CMW
CHECKED
BEF



WASHINGTON STATE DEPARTMENT OF ECOLOGY
BELLEVUE, WASHINGTON
CIRCLE K SITE 1461 ENVIRONMENTAL
REMEDATION SYSTEM INSTALLATION
SEATTLE, WASHINGTON

Kennedy Jenks

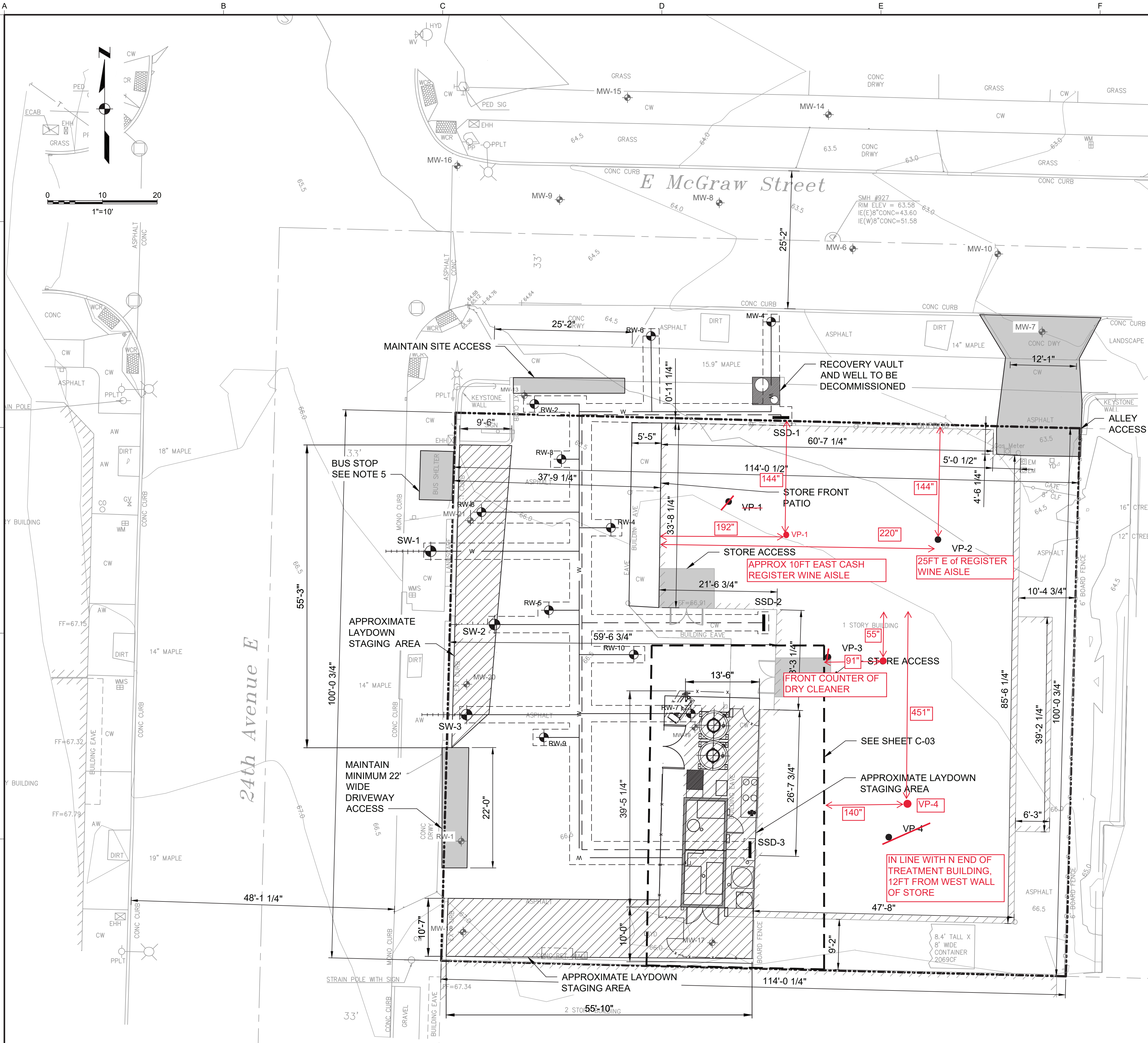
OVERALL SITE PLAN AND
SYSTEM LAYOUT

SCALE 1" = 10'
JOB NO. 2196008.00
DATE APRIL 2024
SHEET 6 OF 24 C-01

Plot Date: 4/16/2024 1:58 PM

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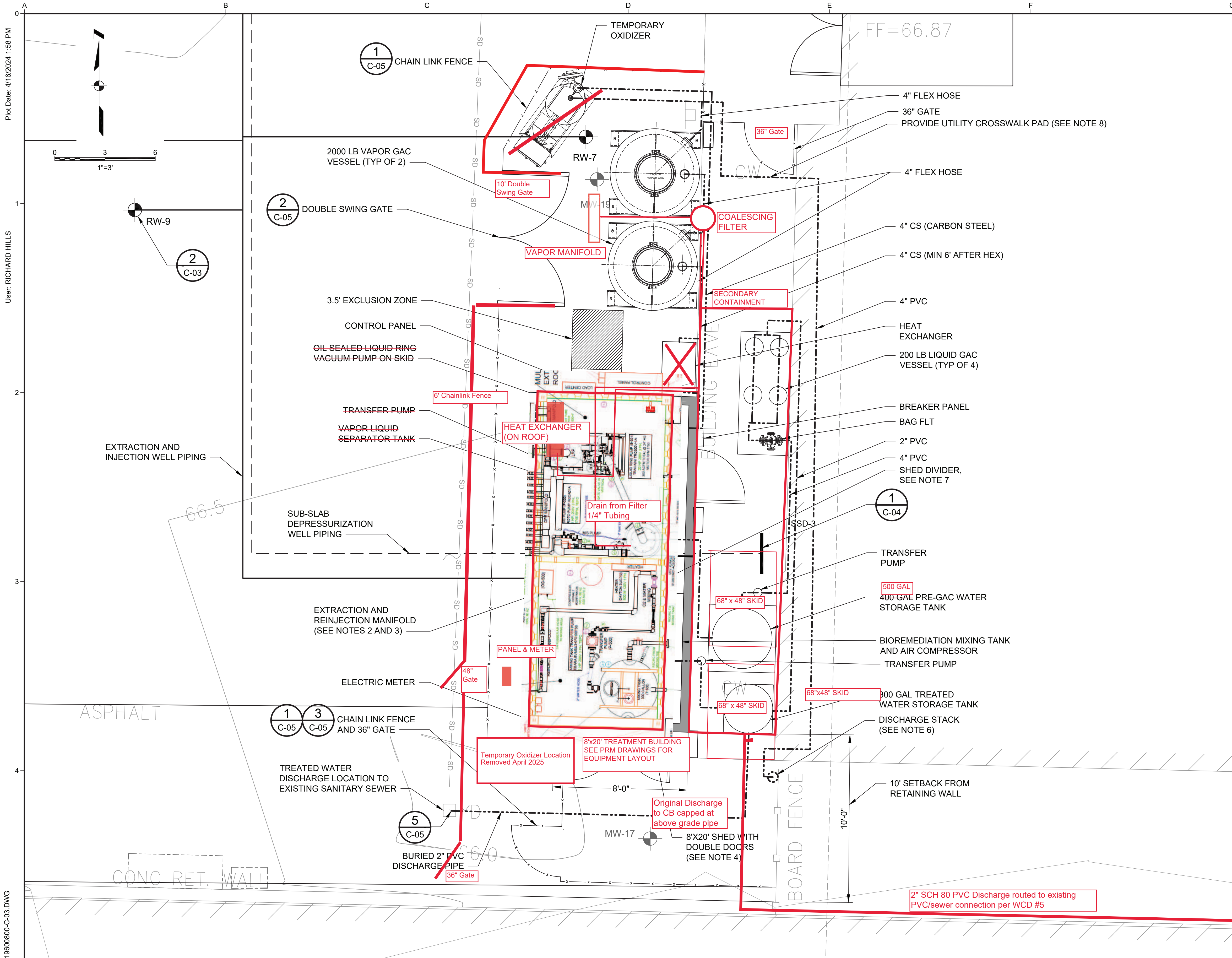


SITE PLAN INFORMATION	GENERAL SHEET NOTES
ADDRESS: 2350 24TH AVE E, SEATTLE, WA 98112; INTERSECTION OF 24TH AVE E AND E MCGRAW ST. (ADDRESS ALSO IDENTIFIED AS 2401 E MCGRAW ST, SEATTLE, WA 98112).	1. DIMENSIONS SHOWN ARE THE MAXIMUM ALLOWABLE FOR LAYDOWN STAGING AREAS. AREAS MAY NEED TO BE REDUCED TO ALIGN WITH EXISTING FEATURES SUCH AS CURBS OR ALLOW FOR VEHICLE AND PEDESTRIAN TRAFFIC AND SHALL BE SECURED BY TEMPORARY FENCING.
OWNER'S NAME: CHOUNG KUK JIN AND KATHY KYUNG PROPERTY NAME: JAY'S DRY CLEANERS	2. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL USING CONTRACTOR MEANS AND METHODS SUCH AS PHASED CONSTRUCTION, TRAFFIC RATED TRENCH LIDS, SIGNAGE, TEMPORARY FENCING, AND OTHER, AS NEEDED TO MAINTAIN VEHICLE AND PEDESTRIAN ACCESS TO THE STORES.
LEGAL DESCRIPTION: PIKES 2ND ADD TO UNION CITY 1 & 2 LESS E 6 FT PLAT BLACK: 29 PLAT LOT: 1-2 QUARTER-SECTION-TOWNSHIP-RANGE: NW-21-25-4 KING COUNTY ASSESSOR'S PARCEL NUMBER: 678820-1335	3. CONTRACTOR WORK AREA SHALL BE CLEARLY DELINEATED AND FENCED OFF TO PREVENT PUBLIC ENTRANCE, WHILE STILL MAINTAINING STORE ACCESS AT ALL TIMES DURING CONSTRUCTION.
HISTORIC RELATED PERMIT NUMBERS: 674948	4. CONTRACTOR SHALL SECURE ANY CITY PERMITTING RELATED TO TRAFFIC CONTROL INCLUDING PROVIDING TRAFFIC CONTROL PLANS, CITY RIGHT OF WAY WORK, AND KING METRO FOR WORK NEAR THE BUS STOP WHICH MAY REQUIRE WEEKEND WORK.
TOTAL RESTORATION SURFACE AREA: 1,215 SF TOTAL VOLUME OF EXCAVATION AND BACKFILL: 160 CY	5. CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY AND MAINTAIN FULL ACCESS TO THE BUS STOP AT ALL TIMES DURING CONSTRUCTION.
DISCHARGE AUTHORIZATION: KING COUNTY INDUSTRIAL WASTE (KCIW) WASTEWATER DISCHARGE AUTHORIZATION (WDA) NO. 4614-01 TO JAY'S CLEANERS - CIRCLE K 1461 TREATMENT SYSTEM. ISSUED MARCH 31, 2023. EFFECTIVE DATE: APRIL 7, 2023 EXPIRATION DATE: APRIL 6, 2028	6. PIPE ROUTING IS APPROXIMATE. CONTRACTOR SHALL PROVIDE INDIVIDUAL LINES TO EACH WELL PER P&ID DRAWINGS.
	7. CONTRACTOR SHALL SUBMIT A WORK SEQUENCING PLAN DESCRIBING THE METHOD IN WHICH ALL REQUIRED ACCESS POINTS SHALL BE PROPERLY MAINTAINED. DETAILS ON THE WORK SEQUENCING PLAN REQUIREMENTS ARE INCLUDED IN SPECIFICATION SECTION 01 33 00.
	8. CONTRACTOR SHALL NOT PLACE HEAVY EQUIPMENT IN LAYDOWN STAGING AREA ALONG SOUTH SIDE OF THE PROPERTY BOUNDARY.

LEGEND	
	WELL TO BE USED FOR EXTRACTION/INJECTION (NEW AND EXISTING, SEE NOTE 1 AND WELL TABLES ON SHEET C-01)
	EXISTING WELL NOT USED FOR EXTRACTION/INJECTION
	NEW SLANT WELL (SEE NOTE 2)
	EXTRACTION AND INJECTION PIPING
	SUB-SLAB DEPRESSURIZATION PIPING
	SUB-SLAB DEPRESSURIZATION WELL
	APPROXIMATE EXTENT OF TRENCH
	CHAIN LINK FENCE
	VAPOR MONITORING PIN (SEE NOTE 3)
	SITE AND STORE ACCESS AREAS
	APPROXIMATE LOCATION OF STAGING AREA
	PROPERTY LINE

THE CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION & INSPECTIONS
APPROVED
Subject to Errors and Omissions
05/17/2024

ISSUED FOR PERMIT				<div>SCALES</div> <div>010"</div>				<div>DESIGNED</div> <div>CMW</div> <div>DRAWN</div> <div>CMW</div> <div>CHECKED</div> <div>BEF</div>		<div>WASHINGTON STATE DEPARTMENT OF ECOLOGY</div> <div>BELLEVUE, WASHINGTON</div> <div>CIRCLE K SITE 1461 ENVIRONMENTAL REMEDATION SYSTEM INSTALLATION SEATTLE, WASHINGTON</div>		SITE PLAN STAGING AREAS				SCALE		1" = 10'	
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NO				REVISION				DATE				BY				DATE		APRIL 2024	
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																		C-02	

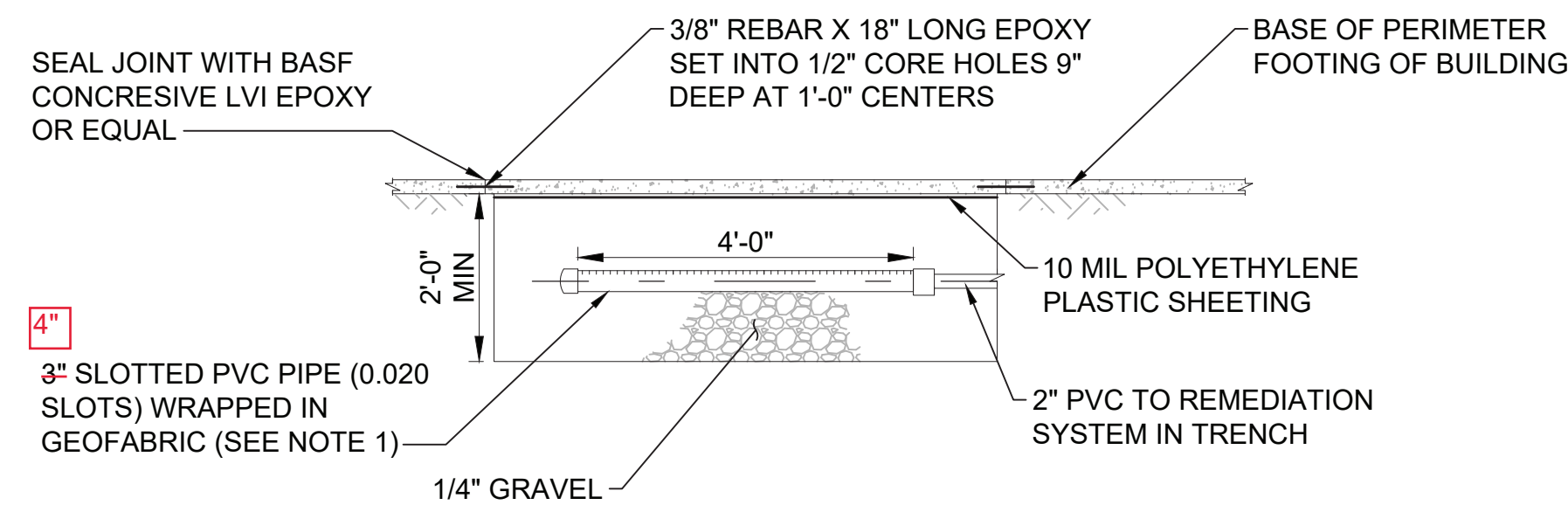


- GENERAL SHEET NOTES**
- WELL TERMINOLOGY:
1A. MW = EXISTING MONITORING WELL
1B. RW = REMEDIATION WELL (EITHER EXISTING OR TO BE INSTALLED)
 - ALL MANIFOLDS SHALL BE EQUIPPED WITH GATE VALVE, SAMPLE PORTS, AND 1/4" TAP FOR FLOW INSERTION.
 - EXTRACTION AND REINJECTION MANIFOLDS SHALL BE EQUIPPED WITH CONTROL VALVES AND FLOW METER FOR EACH WELL.
 - PIPING AND VALVES SHALL BE STACKED VERTICALLY ALONG EQUIPMENT ENCLOSURE WALL FOR ACCESS TO FLOW PATH AND MEASUREMENTS.
 - CONTRACTOR SHALL RECREATE ALL PARKING SPACES AFFECTED BY THE REMEDIATION SYSTEM AS SHOWN ON SHEET C-06 INCLUDING REPAINTING PARKING LOT STRIPING AND HANDICAP SYMBOLS, AND REPLACING EXISTING CURBS WITH NEW CURBS.
 - INSTALL ANY NECESSARY PIPE SUPPORTS TO DISCHARGE STACK TO EXTEND TOP OF STACK TO 3 FEET ABOVE THE ROOF. DISCHARGE STACK PIPE SUPPORTS SHALL BE CONTRACTOR DESIGNED AND SUBMITTED TO THE ENGINEER FOR APPROVAL.
 - DIVIDER AND SHED CONSTRUCTION SHALL MEET IBC AND NFPA REQUIREMENTS TO SEPARATE ZONES. SHED CONSTRUCTION SHALL INCLUDE DIVIDER TO SEPARATE UNCLASSIFIED AND CLASS 1, DIVISION 2 RATED EQUIPMENT OR CONTRACTOR SHALL PROVIDE TWO SEPARATE SHEDS INSTALLED ADJACENT TO EACH OTHER.
 - PIPE ROUTING IS APPROXIMATE. FIELD ROUTE AS NEEDED TO MAINTAIN PATHWAYS AND ACCESS TO EQUIPMENT AND VALVES. PROVIDE STEP OVERS/RAMPS WHERE REQUIRED OR ELEVATE TO MINIMUM 7 FEET ABOVE GROUND TO MAINTAIN ACCESS PER SPECIFICATIONS. PROVIDE LOW POINT DRAINS AND HIGH POINT VENTS AS NEEDED. CONTRACTOR DESIGNED SUPPORTS SHALL BE FAVORABLY APPROVED BY ENGINEER. EXCEPT AS MAY BE REQUIRED FOR THE DISCHARGE STACK, SUPPORTS SHALL NOT BE ANCHORED TO THE BUILDING WALL, AWNING, ROOF, OR COLUMNS.
 - TREATMENT SYSTEM SHALL BE COMMISSIONED IN ACCORDANCE WITH SPECIFICATION SECTION 01 77 00.
 - EQUIPMENT AND PIPING LOCATIONS ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. ACTUAL EQUIPMENT AND PIPING LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR.

- LEGEND**
- EXTRACTION AND INJECTION PIPING
 - SUB-SLAB DEPRESSURIZATION WELL PIPING
 - REMEDIATION SYSTEM PROCESS PIPING (SEE NOTE 4)
 - CHAIN LINK FENCE
 - SUB-SLAB DEPRESSURIZATION WELL
 - VAPOR MONITORING PIN
 - WELL TO BE USED FOR EXTRACTION/INJECTION (NEW AND EXISTING, SEE NOTE 1 AND WELL TABLES ON SHEET C-01)
 - EXISTING WELL NOT USED FOR EXTRACTION/INJECTION

THE CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION & INSPECTIONS
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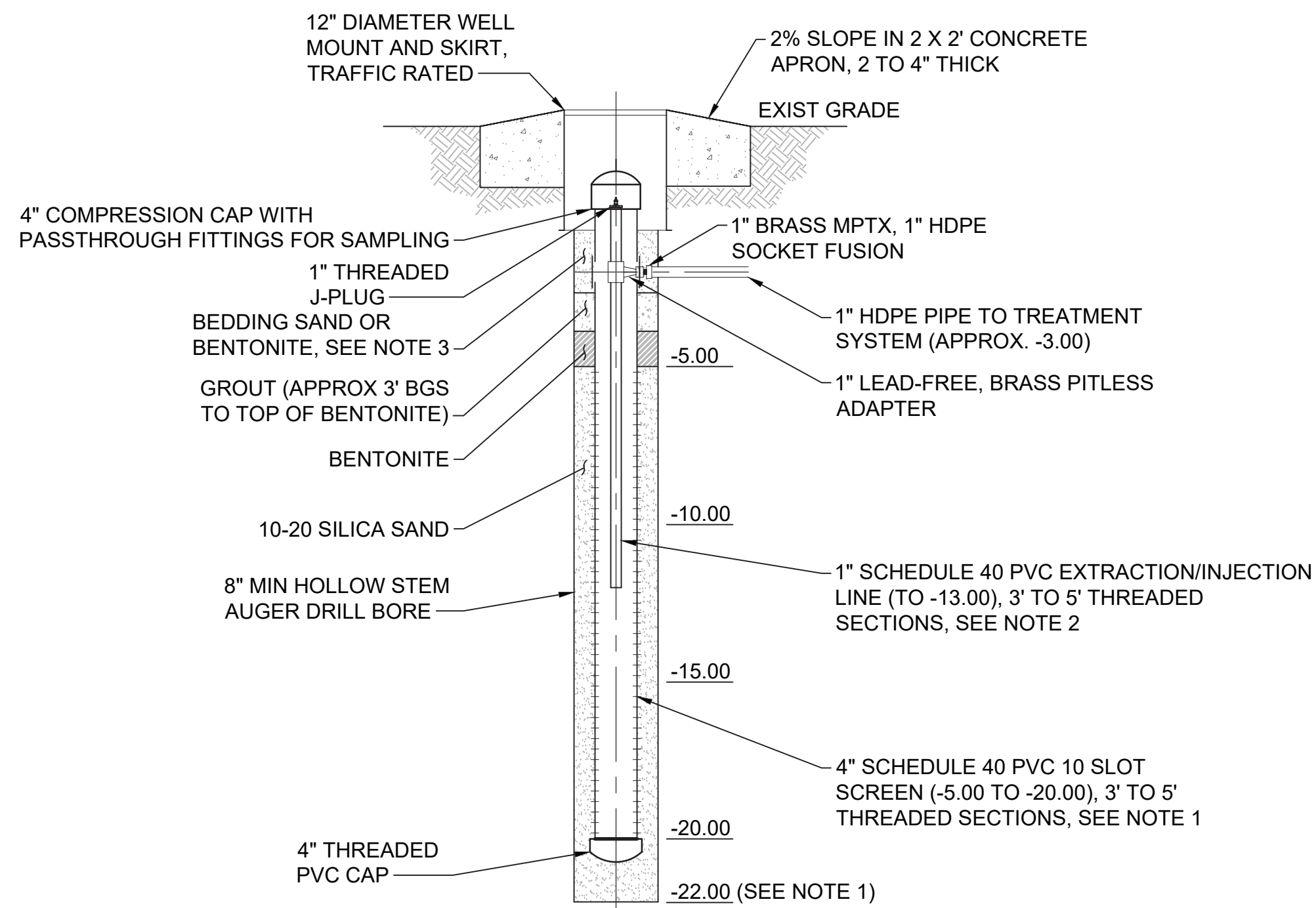
ISSUED FOR PERMIT					SCALES 0" = 10'		DESIGNED CMW		WASHINGTON STATE DEPARTMENT OF ECOLOGY BELLEVUE, WASHINGTON CIRCLE K SITE 1461 ENVIRONMENTAL REMEDATION SYSTEM INSTALLATION SEATTLE, WASHINGTON	REMEDATION SYSTEM LAYOUT	SCALE 1" = 10'
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				1	SEATTLE DEPARTMENT OF TRANSPORTATION PERMIT	10/09/2023	CMW	CHECKED BEF		DATE APRIL 2024	SHEET 8 OF 24
				NO	REVISION	DATE	BY				C-03



NOTES:

1. GEOFABRIC SHALL BE NONWOVEN POLYPROPYLENE GEOTEXTILE, SUCH AS MIRAFI 140N, OR EQUAL.
2. SUB-SLAB DEPRESSURIZATION (SSD) WELL SHALL BE INSTALLED AT LEAST 1 FOOT BELOW THE BOTTOM OF ANY PERIMETER FOOTING OF THE BUILDING.

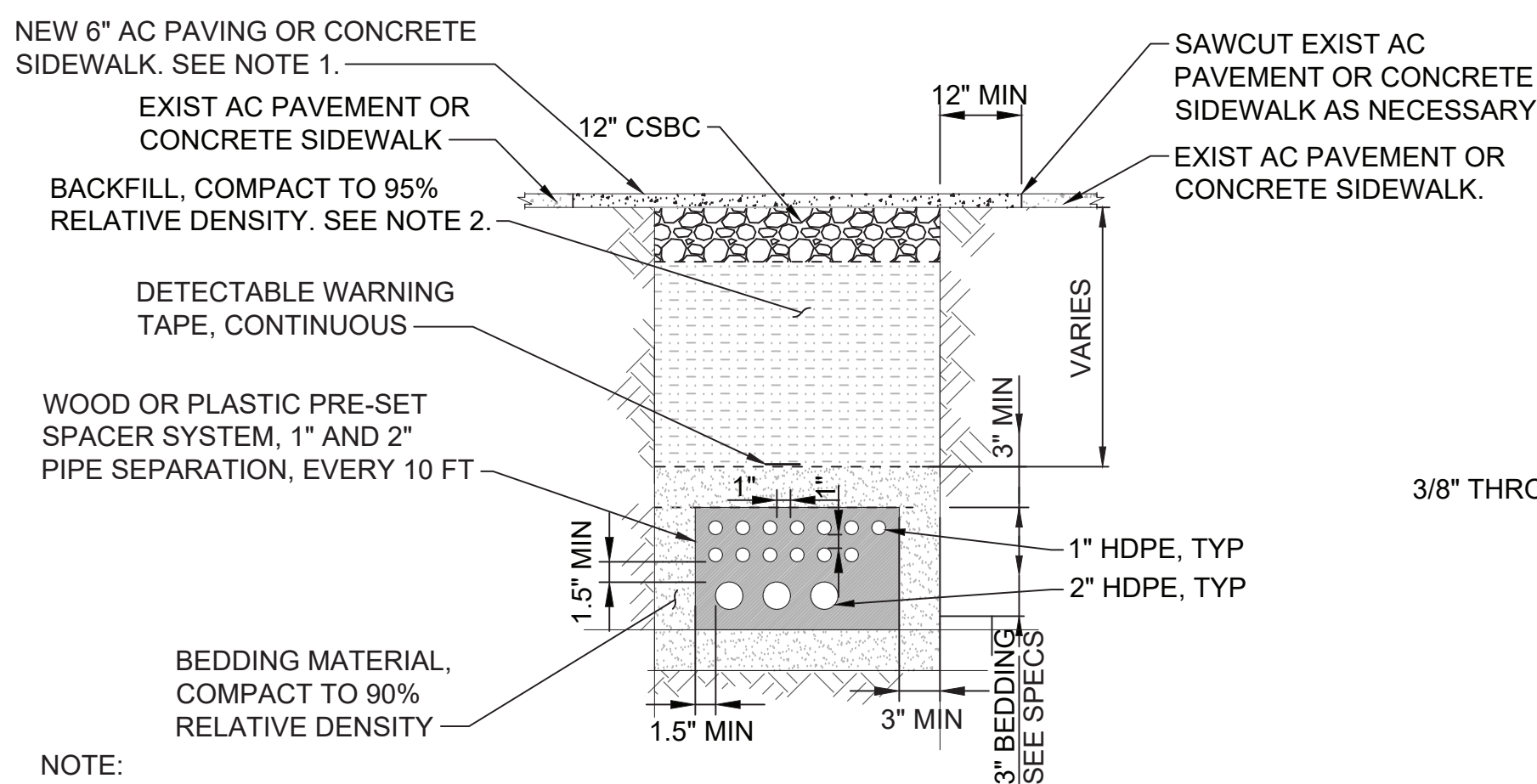
1 SUB-SLAB DEPRESSURIZATION WELL
C-01 SCALE: 1/2" = 1'



NOTES:

1. WELL RW-10 SHALL BE DRILLED TO 30 FT BGS WITH A SCREEN INTERVAL FROM 23 TO 28 FT BGS. IN RW-10 THE EXTRACTION/INJECTION LINE SHALL EXTEND TO - 16 FT BGS.
2. PIPING SHALL EXTEND TO LOW GROUND WATER ELEVATION OR A MINIMUM OF 13' BGS.
3. AFTER INSTALLATION OF COUPLING AND PITLESS ADAPTER, CONTRACTOR SHALL BACKFILL WITH MINIMUM 3" BENTONITE AND THEN COMPACT PER SPECIFICATIONS.

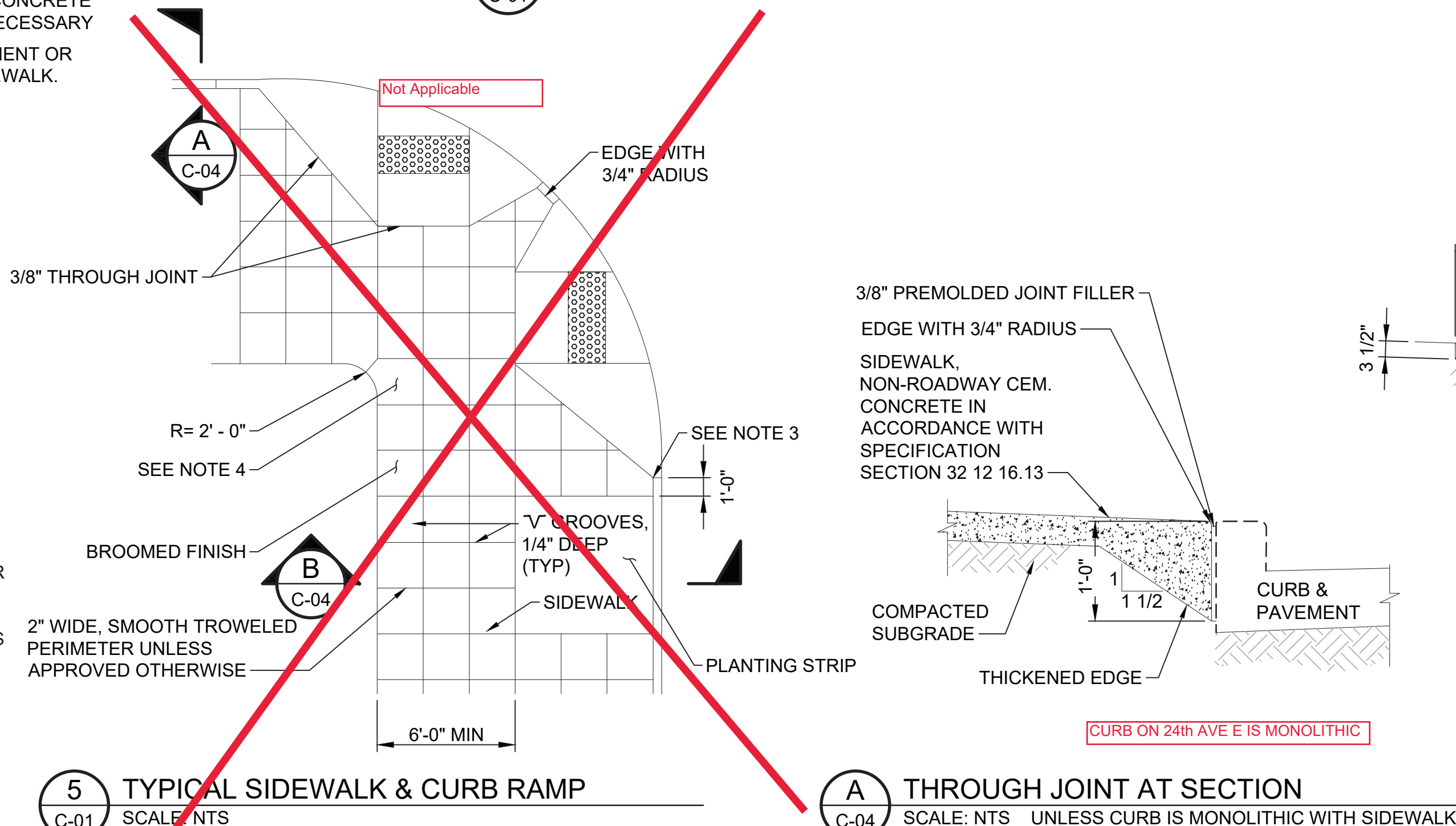
2 VERTICAL WELL
C-01 SCALE: NTS



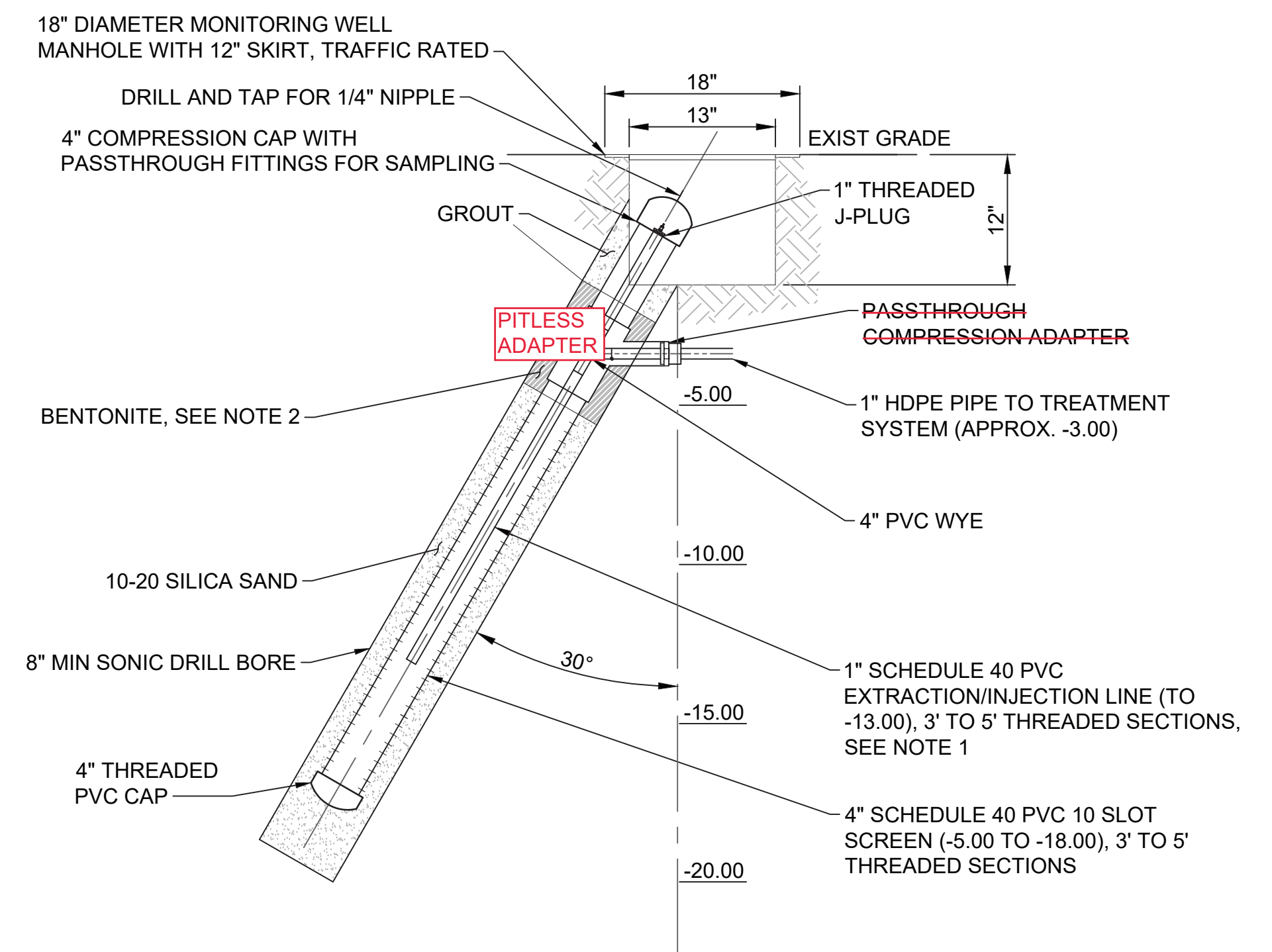
NOTE:

1. NEW AC PAVING OVER CRUSHED SURFACING BASE COURSE COMPACTED TO 95% RELATIVE DENSITY. AC PAVING SHALL BE MINIMUM OF 6" THICK. REMOVE EXISTING PAVEMENT AND BASE FOR THE FULL WIDTH OF THE TRENCH. RESTORE SIDEWALK PER CITY OF SEATTLE STANDARD PLAN 420 (SEE DETAIL 5 ON THIS SHEET). FULL SIDEWALK PANEL REPLACEMENT REQUIRED PER SEATTLE DEPARTMENT OF TRANSPORTATION DIRECTOR'S RULE 01-2017.
2. TRENCH BACKFILL SHALL CONSIST OF CONTROL DENSITY FILL PER CITY OF SEATTLE STANDARD SPECIFICATION 2-10.2(3)A2 (EXCEPT WITHIN 10-FT OF STEAM PIPES PER DIRECTOR'S RULE 01-2017 7.4.2.1) OR MINERAL AGGREGATE TYPE 17 PER STANDARD SPECIFICATION 9-03.14 AND COMPACTED PER STANDARD SPECIFICATION 2.11.3(1).
3. ARRANGEMENT OF 1" HDPE AND 2" PVC PIPES IN PRE-SET SPACER SYSTEM SHALL BE AT THE DISCRETION OF THE CONTRACTOR. SEPARATION AROUND 1" PIPE SHALL BE 1" MINIMUM. SEPARATION AROUND 2" PIPE SHALL BE 1.5" MINIMUM.

4 TRENCH SECTION
C-01 SCALE: NTS



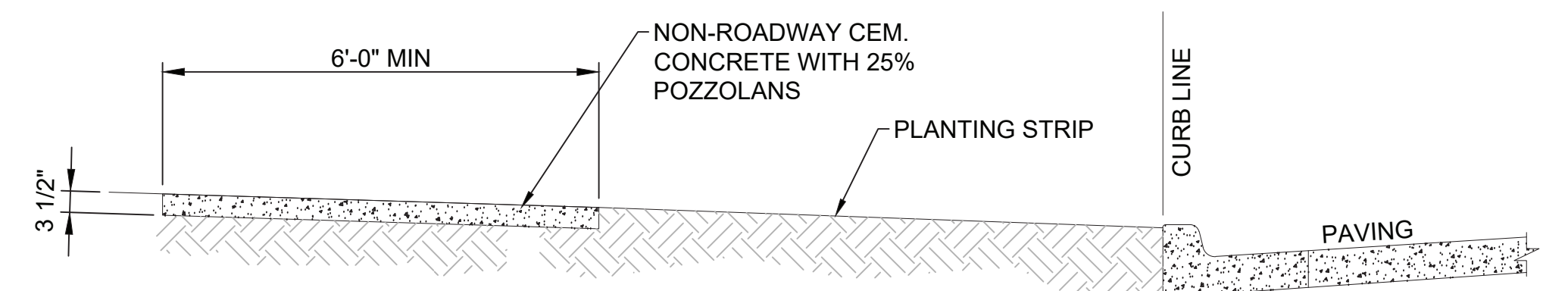
A THROUGH JOINT AT SECTION
C-04 SCALE: NTS UNLESS CURB IS MONOLITHIC



NOTES:

1. PIPING SHALL EXTEND TO LOW GROUND WATER ELEVATION OR A MINIMUM OF 13' BGS.
2. AFTER INSTALLATION OF WYE, CONTRACTOR SHALL BACKFILL WITH MINIMUM 3" BENTONITE AND THEN COMPACT PER SPECIFICATIONS.

3 SLANT WELL
C-01 SCALE: NTS






NOTES:

1. 3/8" THROUGH AND CONTRACTION JOINTS MUST BE LOCATED AS REQUIRED BY SPECIFICATION 32 12 16.
2. SAWCUT SCORING MUST MATCH PATTERN IN ADJACENT EXISTING SIDEWALK OR MUST BE A 2' SQUARE SCORING PATTERN UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. 12" MINIMUM BETWEEN EDGE OF RAMP WING AND PLANTING STRIP IS DESIRABLE.
4. 6'-0" MINIMUM CONTINUOUS SIDEWALK MUST BE MAINTAINED AROUND CORNERS.

B SECTION
C-04 SCALE: NTS

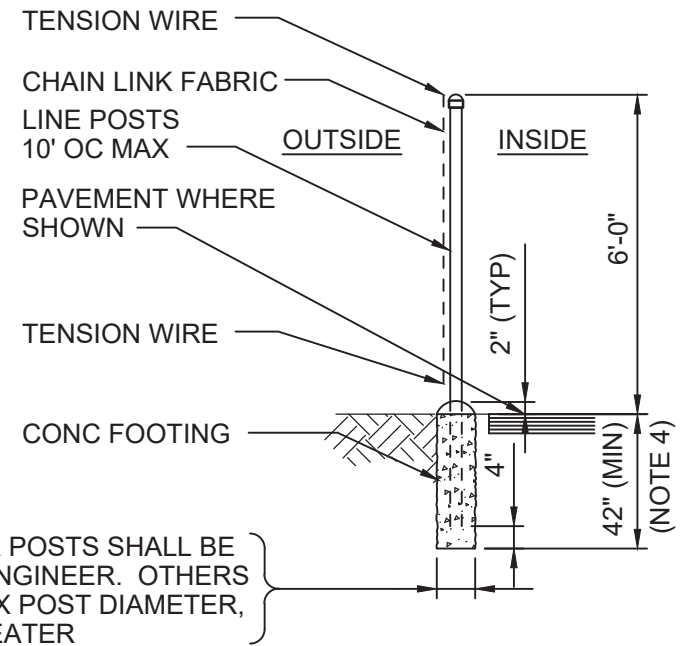
THE CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION &
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ISSUED FOR PERMIT									DESIGNED	 <div>WASHINGTON STATE DEPARTMENT OF ECOLOGY BELLEVUE, WASHINGTON CIRCLE K SITE 1461 ENVIRONMENTAL REMEDATION SYSTEM INSTALLATION SEATTLE, WASHINGTON</div>	CIVIL SECTIONS AND DETAILS - I	SCALE	AS SHOWN
							DRAWN		JOB NO 2196008.00				
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									CHECKED	 Kennedy Jenks		SHEET 9 OF 24	
				NO	REVISION	DATE	BY		BEF			C-04	

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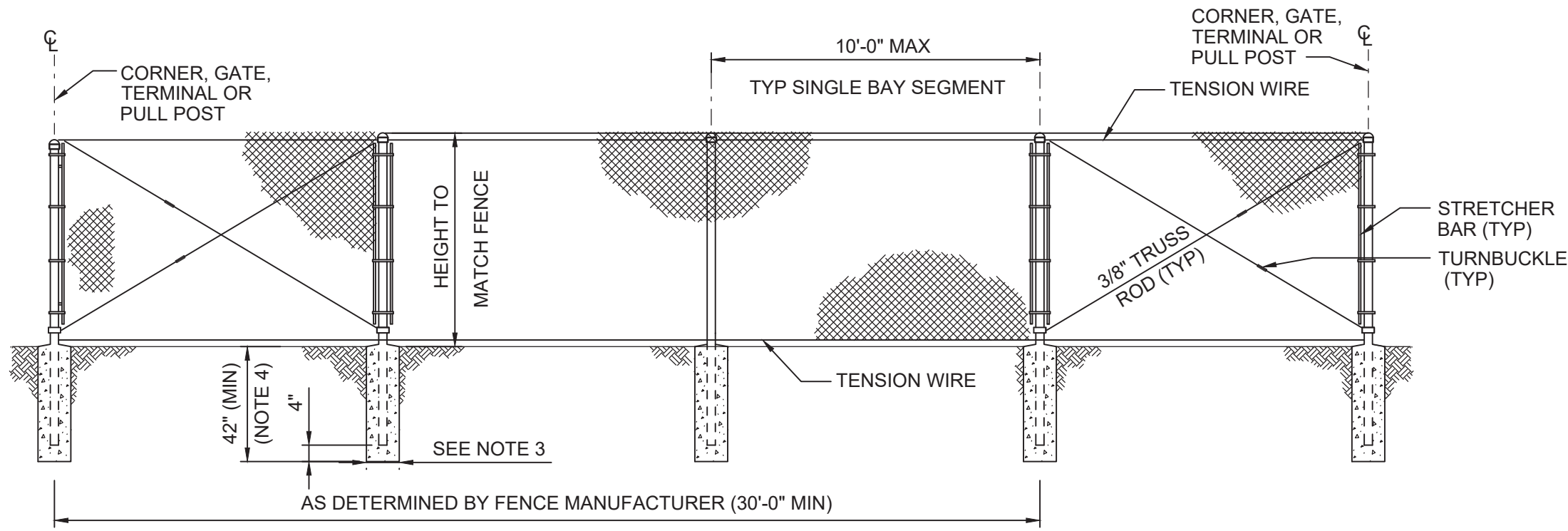
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GATE AND CORNER POSTS SHALL BE DESIGNED BY AN ENGINEER. OTHERS SHALL BE 12" OR 5 X POST DIAMETER, WHICHEVER IS GREATER

NOTES:

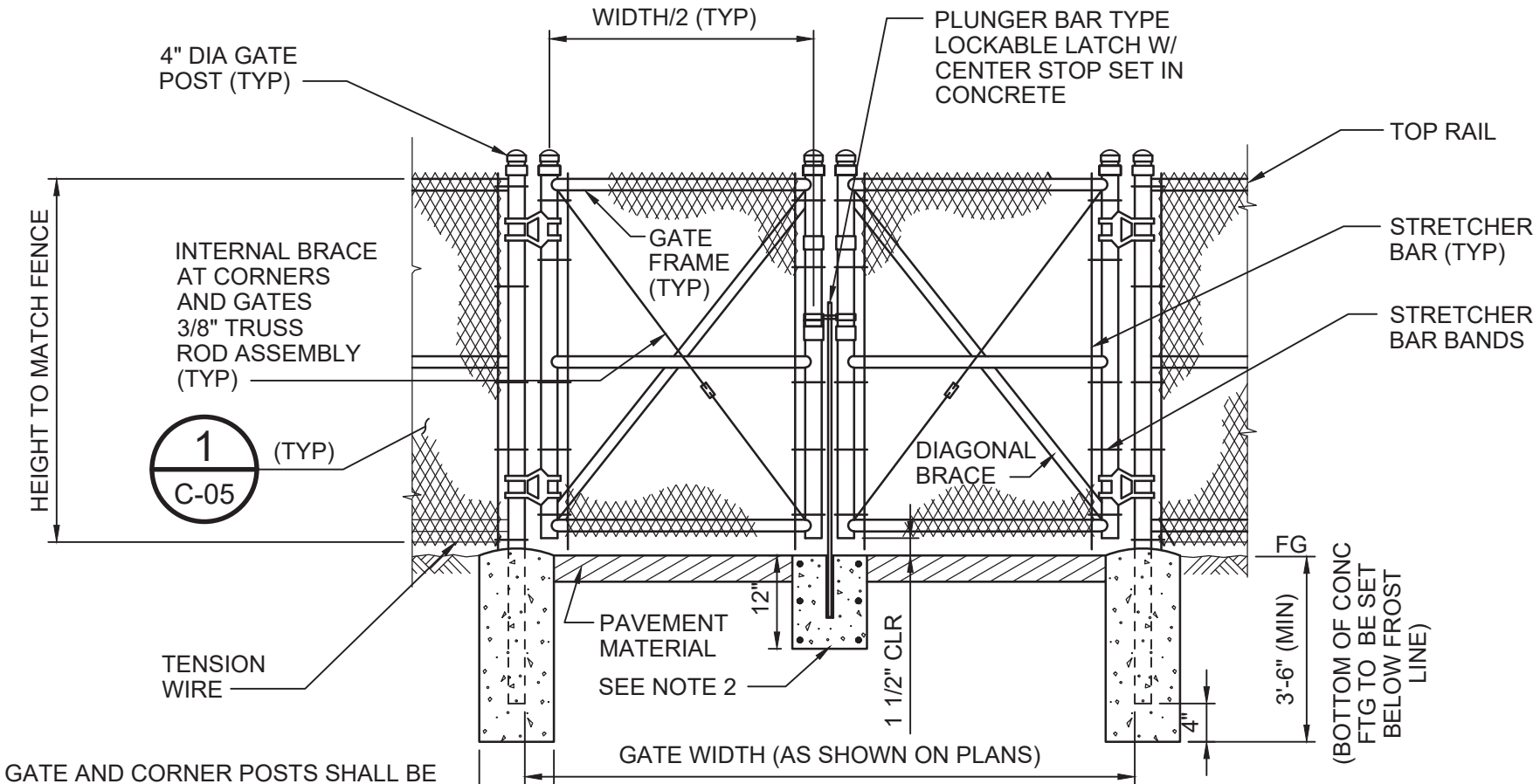
- SEE SPECIFICATIONS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
- EXTENSION ARM MAY BE TURNED IN AT OPTION OF OWNER.
- LINE POSTS FOOTINGS SHALL BE 12" OR 5 X POST DIAMETER, WHICHEVER IS GREATER.
- BOTTOM OF CONC FTG TO BE SET BELOW FROST LINE.
- FENCE SHALL INCLUDE PRIVACY SCREEN MATERIAL WOVEN INTO CHAIN LINK FENCE. PRIVACY SCREEN MATERIAL SHALL BE DARK GREY COLOR OR OTHER COLOR AGREED UPON WITH THE OWNER.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI AS MEASURED IN ACCORDANCE WITH ASTM C39.
- MIX DESIGN
- 7.1 FIELD TEST RECORDS: SUBMIT IN ACCORDANCE WITH ACI 318 CHAPTER 5.3
- 7.2 WATER/CEMENT RATIO: 0.5 MAX
- 7.3 AIR CONTENT: 4% +/- 1% IN ACCORDANCE WITH ASTM C231
- CEMENTITIOUS MATERIALS
- 8.1 MINIMUM CONTENT: 570 LBS/CU YD
- 8.2 PORTLAND CEMENT: ASTM C150, TYPE II LOW ALKALI
- 8.3 FLYASH: ASTM C618, CLASS F, NOT TO EXCEED 20% OF TOTAL CEMENTITIOUS MATERIALS.
- AGGREGATE
- 9.1 COARSE: CONFORM TO ASTM C33, 1-INCH MAX AGGREGATE
- 9.2 FINE: CONFORM TO TABLE 1 OF ASTM C33



ADMIXTURES

- 10.1 AIR ENTRAINING: ASTM C260
- 10.2 WATER REDUCING: ASTM C494, TYPE A
11. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-10, 318-11, AND ACI 347.
12. CONCRETE SHALL BE PLACED AND CURED BETWEEN 50 AND 90 DEGREES F.
13. PROVIDE SF-2.0 FINISH AT FORMED SURFACES IN ACCORDANCE WITH ACI 301.
14. PROVIDE TROWEL FINISH AT HORIZONTAL SURFACES IN ACCORDANCE WITH ACI 301.
15. UNLESS OTHERWISE NOTED, ALL EXPOSED EDGES AND CORNERS SHALL BE CHAMFERED 3/4-INCH.
16. REINFORCING BARS SHALL BE ASTM A615-GRADE 60.
17. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
18. ARRANGEMENT AND DETAINING OF REINFORCING STEEL, INCLUDING BAR SUPPORTS AND SPACERS, SHALL BE IN ACCORDANCE WITH THE LATEST ACI 315 DETAILING MANUAL.
19. REINFORCING SHALL LAP IN ACCORDANCE WITH ACI 318-11.
20. DIMENSIONS TO REINFORCING ARE TO BAR CENTERLINES, UNLESS NOTED OTHERWISE BAR COVER IS CLEAR DISTANCE BETWEEN THE BAR AND THE CONCRETE SURFACE. UNLESS SHOWN OTHERWISE, BAR COVER SHALL NOT BE LESS THE 1 1/2 INCH.
21. POST DIAMETER SHALL BE DEFERRED SUBMITTAL BY THE CONTRACTOR.

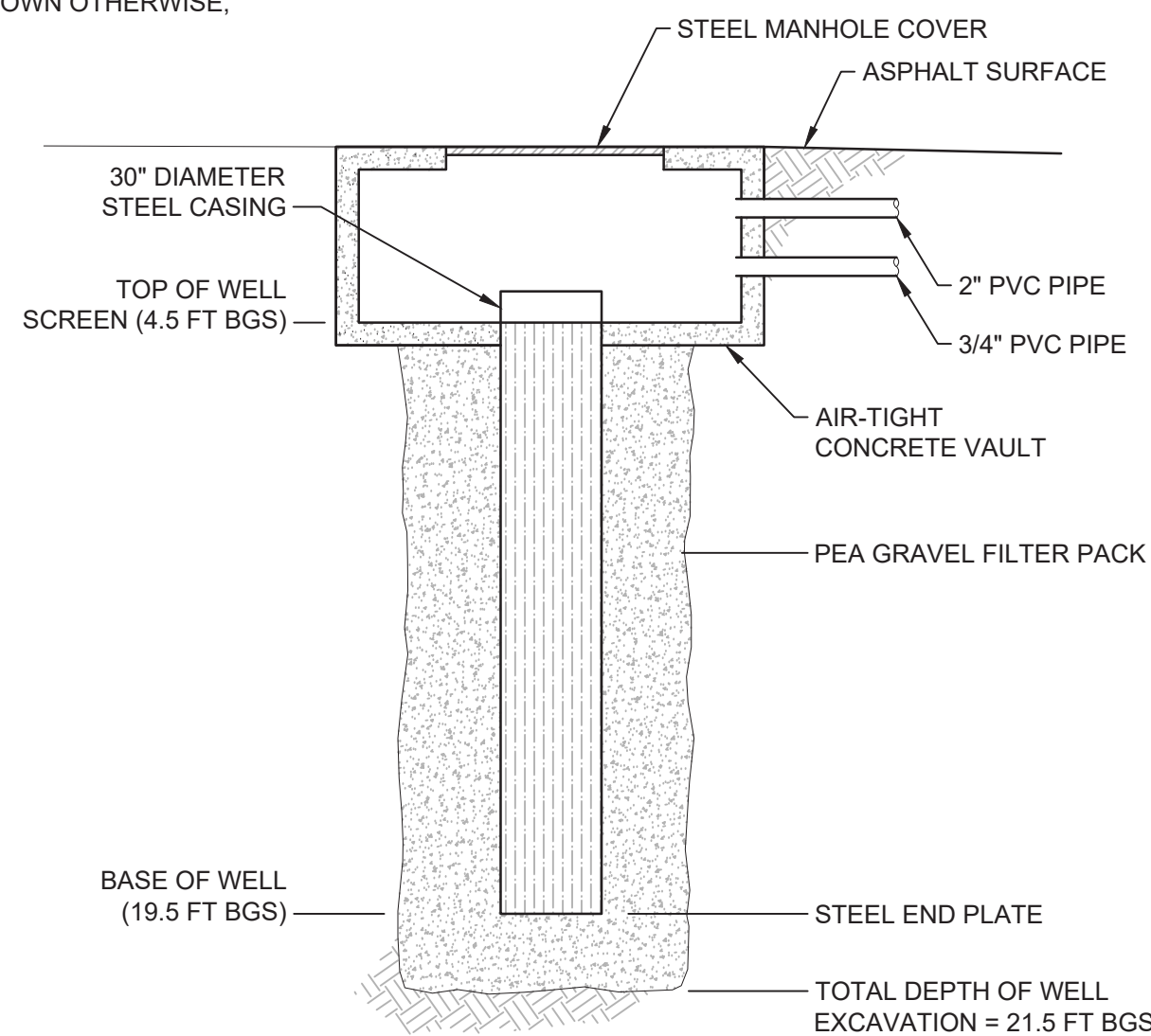
1 CHAIN LINK FENCE
C-03 SCALE: NTS



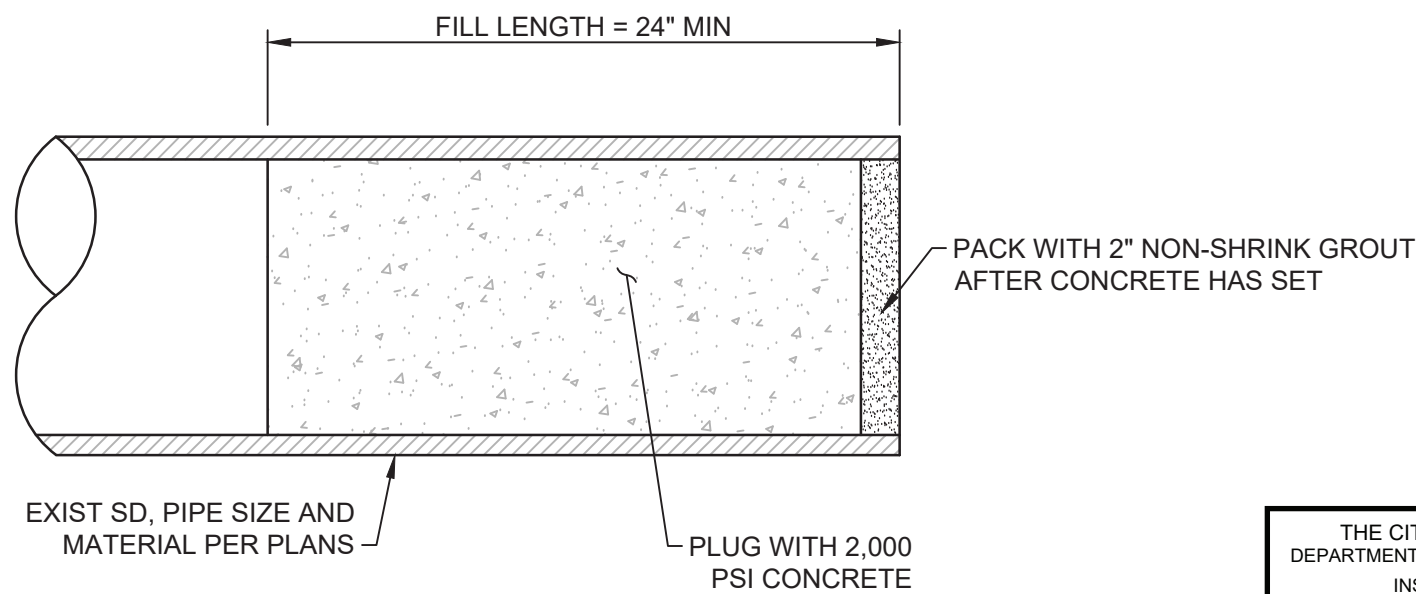
NOTES:

- SEE SPECIFICATIONS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
- 12" DIAMETER X 18" DEEP CONCRETE STOP W/ 20 GA STEEL PLUNGER SLEEVE, DIA = ROD OD + 1/2".
- POST DIAMETER SHALL BE DEFERRED SUBMITTAL BY THE CONTRACTOR.

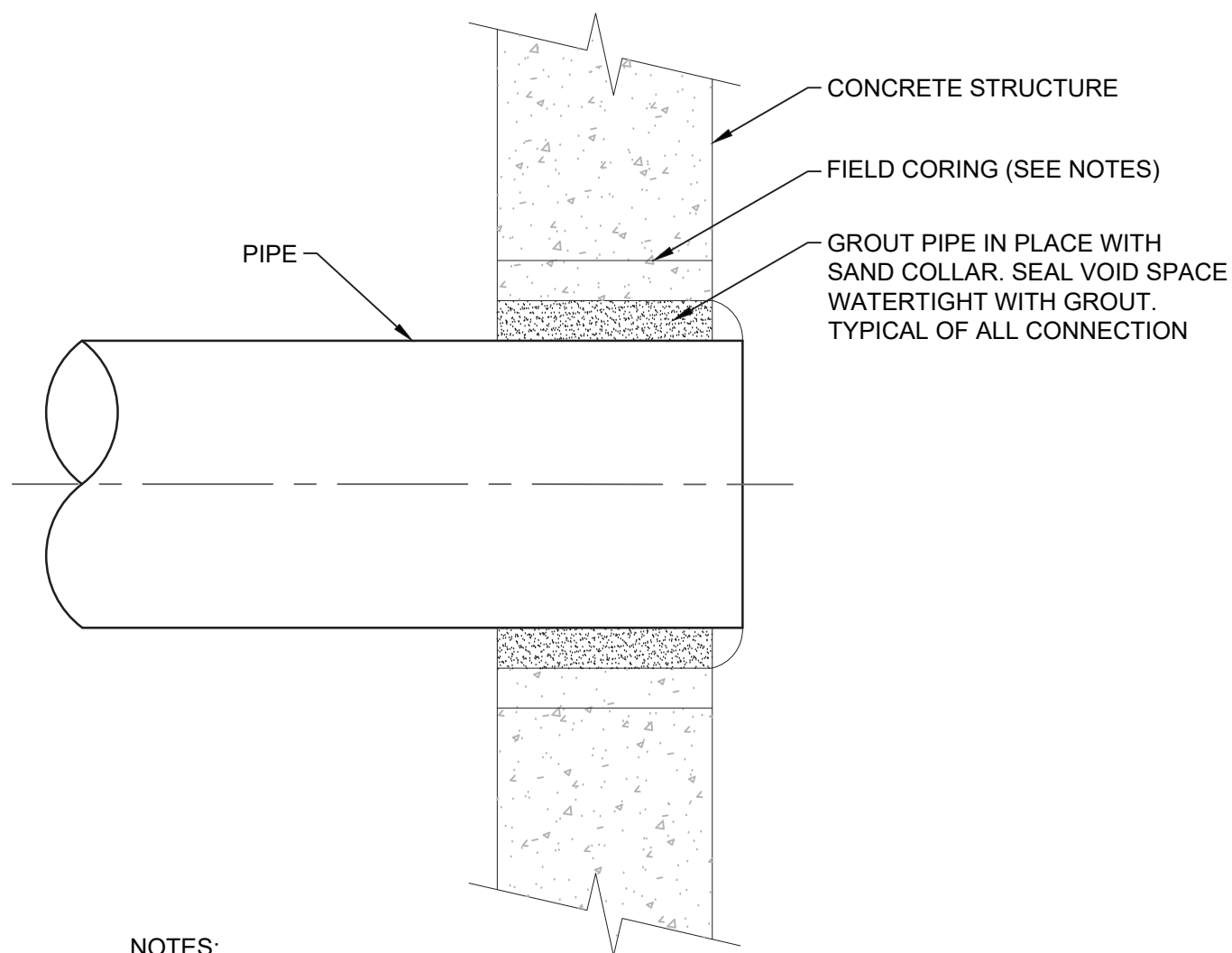
2 DOUBLE LEAF SWING GATE
C-03 SCALE: NTS



A RECOVERY WELL AND VAULT
C-01 SCALE: NTS



4 PIPE PLUG
C-01 SCALE: NTS



NOTES:

- CONTRACTOR SHALL NEATLY CORE DRILL OPENINGS FOR THESE UTILITY CONNECTION IN THE FIELD BASED ON SPECIFIC UTILITY SIZE AND LOCATION. CORE DRILL OPENING SIZES SHALL BE MINIMIZED AS NECESSARY TO MAKE THE UTILITY CONNECTION.
- CONTRACTOR SHALL MAKE ALL CORE DRILLED OPENINGS WATERTIGHT WITH NON-SHRINK GROUT.
- GROUT SHALL MEET THE REQUIREMENTS OF ASTM C 1107 FOR HYDRAULIC-CEMENT NON-SHRINK GROUT. HAVE A 25 TO 30 SECOND FLUID CONSISTENCY ACCORDING TO ASTM C 939, HAVE A MINIMUM WORKING TIME OF 30 MINUTES. HAVE MINIMUM COMPRESSIVE STRENGTH OF 7,500 PSI @ 28 DAYS WHEN PREPARED IN FLUID CONSISTENCY, AND NOT CONTAIN POWDERED ALUMINUM.

5 PIPE TO CATCH BASIN CONNECTOR
C-03 SCALE: NTS

ISSUED FOR PERMIT

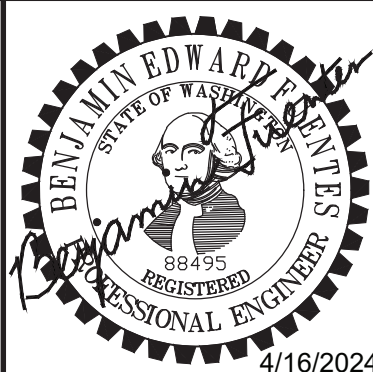
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3 SINGLE LEAF SWING GATE
C-03 SCALE: NTS

NOTES:

- SEE SPECS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
- GATE TO BE INSTALLED WITH KEEPER TO SECURE IN OPEN POSITION.
- GATES LESS THAN 8'-0" IN WIDTH SHALL BE SINGLE LEAF.
- POST DIAMETER SHALL BE DEFERRED SUBMITTAL BY THE CONTRACTOR.

SCALES
0 1"
0 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED
RJA
DRAWN
RJA
CHECKED
BEF



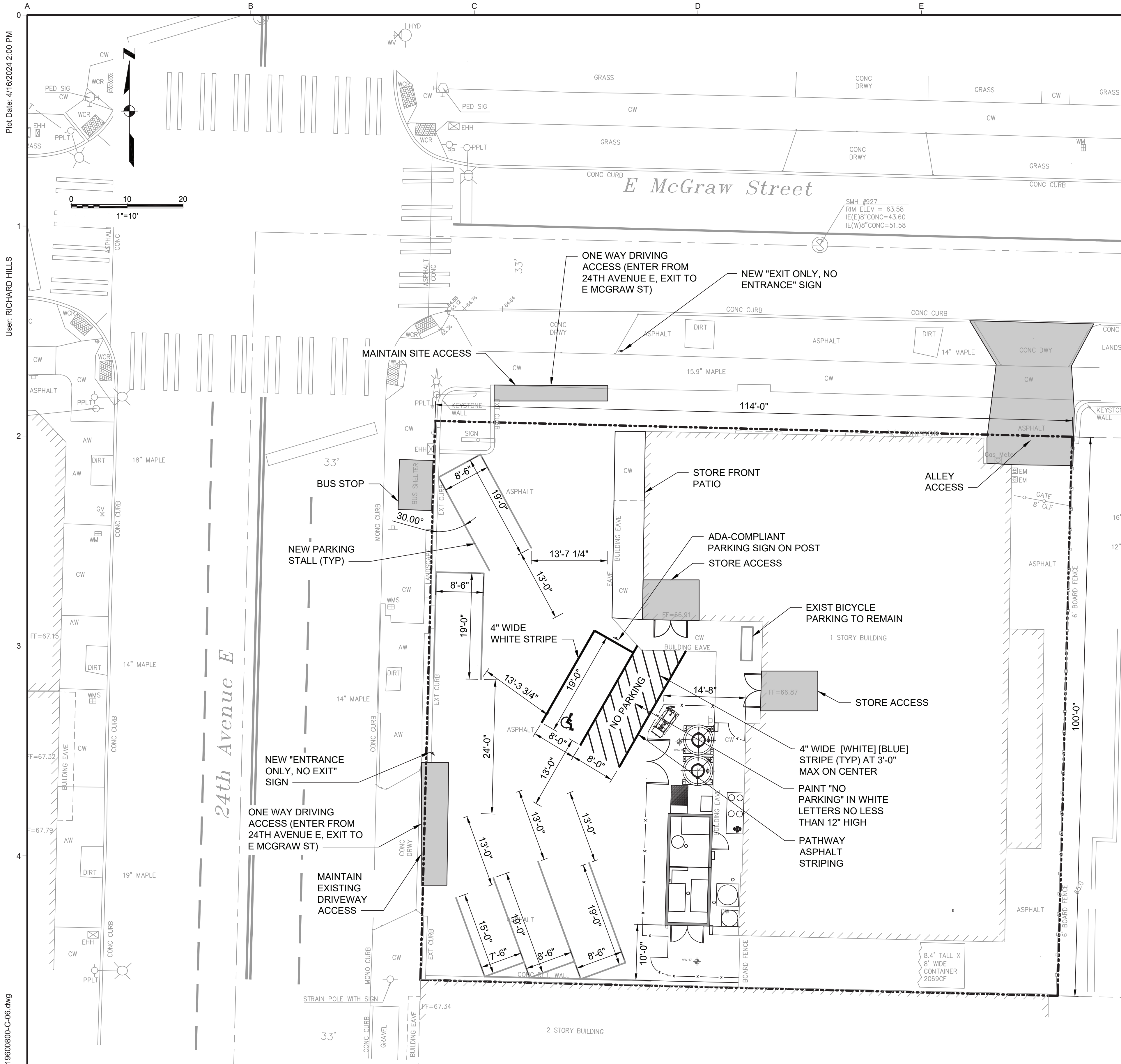
WASHINGTON STATE DEPARTMENT OF ECOLOGY
BELLEVUE, WASHINGTON
CIRCLE K SITE 1461 ENVIRONMENTAL
REMEDATION SYSTEM INSTALLATION
SEATTLE, WASHINGTON

Kennedy Jenks

CIVIL SECTIONS AND DETAILS - II

FOR REFERENCE ONLY

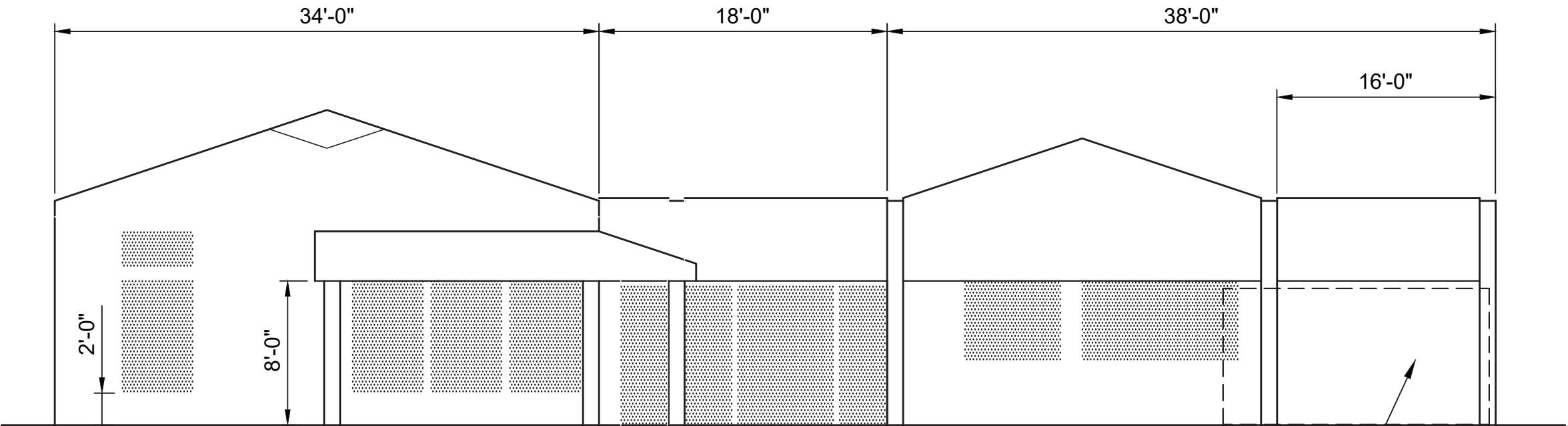
SCALE
JOB NO
2196008.00
DATE
APRIL 2024
SHEET 10 OF 24
C-05



THE CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION &
INSPECTIONS
APPROVED
Subject to Errors and Omissions
05/17/2024

GENERAL SHEET NOTES

- FLOOR AREA RATIO PER SMC 23.47A.013:
SITE AREA: 11,400 S.F.
EXISTING BUILDING AREA: 4,770 S.F.
NEW CONTAINER AREA: 160 S.F.
TOTAL FLOOR AREA: 4,930 S.F.
BUILDING HEIGHT: 16'± (LESS THAN 30')
- FAR PER TABLE A, SMC 23.47.013: 2.5
FAR RATIO: 4,930 / 11,400 = .433 < 2.5 - COMPLIES
- PARKING PER SMC 23.54.015
TOTAL FLOOR AREA: 4,930 S.F.
(LESS FLOOR AREA DISCOUNT PER SMC 23.54.015.D.1 OF 1,500 S.F.)
CALCULATED FLOOR AREA: 3,430 S.F.
- REQUIRED PARKING PER TABLE A, SMC 23.54.015, USE B.10:
(1) SPACE PER 500 SQUARE FEET.
CALCULATED PARKING: 6.86; USE (7) STALLS
50% PARKING STALL REDUCTION PER SMC 23.54.020.F.2 = 3.5; USE
(6) STALLS.
- EXISTING NON-CONFORMING PARKING LOCATION PERMITTED
UNDER 674948
- EXISTING (1) LONG-TERM AND (1) SHORT-TERM BICYCLE PARKING
AT BUILDING ENTRANCE TO REMAIN UNCHANGED. (SMC 23.54.015
TAB LE D, USE A.6)
- SEATTLE ENERGY CODE (SEC):
PER SEC C402.1.2 EQUIPMENT BUILDINGS:
NEW CONTAINER IS TO BE CONDITIONED (HEAT ONLY, NO
COOLING)
NEW CONTAINER AREA: 160 S.F.
NOT INTENDED FOR HUMAN OCCUPANCY
HEATING SYSTEM: 0.5 KW
HEATING THERMOSTAT SET POINT: NOT MORE THAN 50 DEGREES F.
AVERAGE WALL AND ROOF U-FACTOR: LESS THAN 0.200



ELEVATION VIEW
SCALE: NOT TO SCALE

PLACEMENT OF TEMPORARY
NEW REMEDIATION
EQUIPMENT CONTAINER

SBC: 503.1.2 - BUILDINGS ON THE SAME LOT

THESE STRUCTURES WILL BE CONSIDERED AS PORTIONS OF ONE
BUILDING PER 503.1.2.

AGGREGATE AREA OF ALL OCCUPANCIES (F-2, B, AND M): 4,930 SF
MINIMUM ALLOWABLE AREA PER TABLE 506.2 (NS, TYPE V B, F-2
OCCUPANCY): 13,000 SF
MINIMUM ALLOWABLE AREA PER TABLE 506.2 (NS, TYPE V B, B
OCCUPANCY): 9,000 SF
MINIMUM ALLOWABLE AREA PER TABLE 506.2 (NS, TYPE V B, M
OCCUPANCY): 9,000 SF

REQUIRED SEPARATION OF OCCUPANCIES PER TABLE 508.4:
F-2 AND B OCCUPANCIES - NO SEPARATION REQUIREMENT
B AND M OCCUPANCIES - NO SEPARATION REQUIREMENT
M AND F-2 OCCUPANCIES - NOT APPLICABLE AT THIS BUILDING

STREET LEVEL DEVELOPMENT STANDARDS PER SMC 23.47A.008:

- A.2A ALL BUILDING STREET-FACING FACADES HAVE WINDOWS AND
ENTRYWAYS.
- A.2B SINGLE BLANK SEGMENT OF 16' LENGTH AT SOUTH END OF
FACADE. NEW TEMPORARY CONTAINER TO BE PLACED IN THIS LOCATON.
- A.2C BLANK FACADE SEGMENTS EQUAL 38.8 PERCENT OF THE WIDTH OF
THE STRUCTURE FACADE ALONG THE STREET.
- B.2A TRANSPARENT STREET FACING FACADE EQUALS 61.2 PERCENT.
- B.3A NEW NON-RESIDENTIAL STRUCTURE (TEMPORARY CONTAINER) OF
160 S.F. IS LESS THAN 600 S.F. THRESHOLD FOR DEPTH PROVISION
REQUIREMENTS.
- C.1 CURRENT BUILDING USE IS MINI-MARKET AND LAUNDRY.
- C.4 OVERHEAD WEATHER PROTECTION IS PROVIDED ALONG 80 PERCENT
OF THE STREET FRONTAGE OF THE STRUCTURE.
- TABLE A FOR 23.471.008.C: TWO (2) SMALL COMMERCIAL SPACES ARE
PROVIDED IN THE EXISTING 4,770 S.F. STRUCTURE

ISSUED FOR PERMIT

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NO	REVISION	DATE	BY

SCALES
0 10'



DESIGNED
CMW
DRAWN
CMW
CHECKED
BEF



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CIRCLE K SITE 1461 ENVIRONMENTAL
REMEDATION SYSTEM INSTALLATION
SEATTLE, WASHINGTON

Kennedy Jenks

SITE PLAN PARKING AREAS

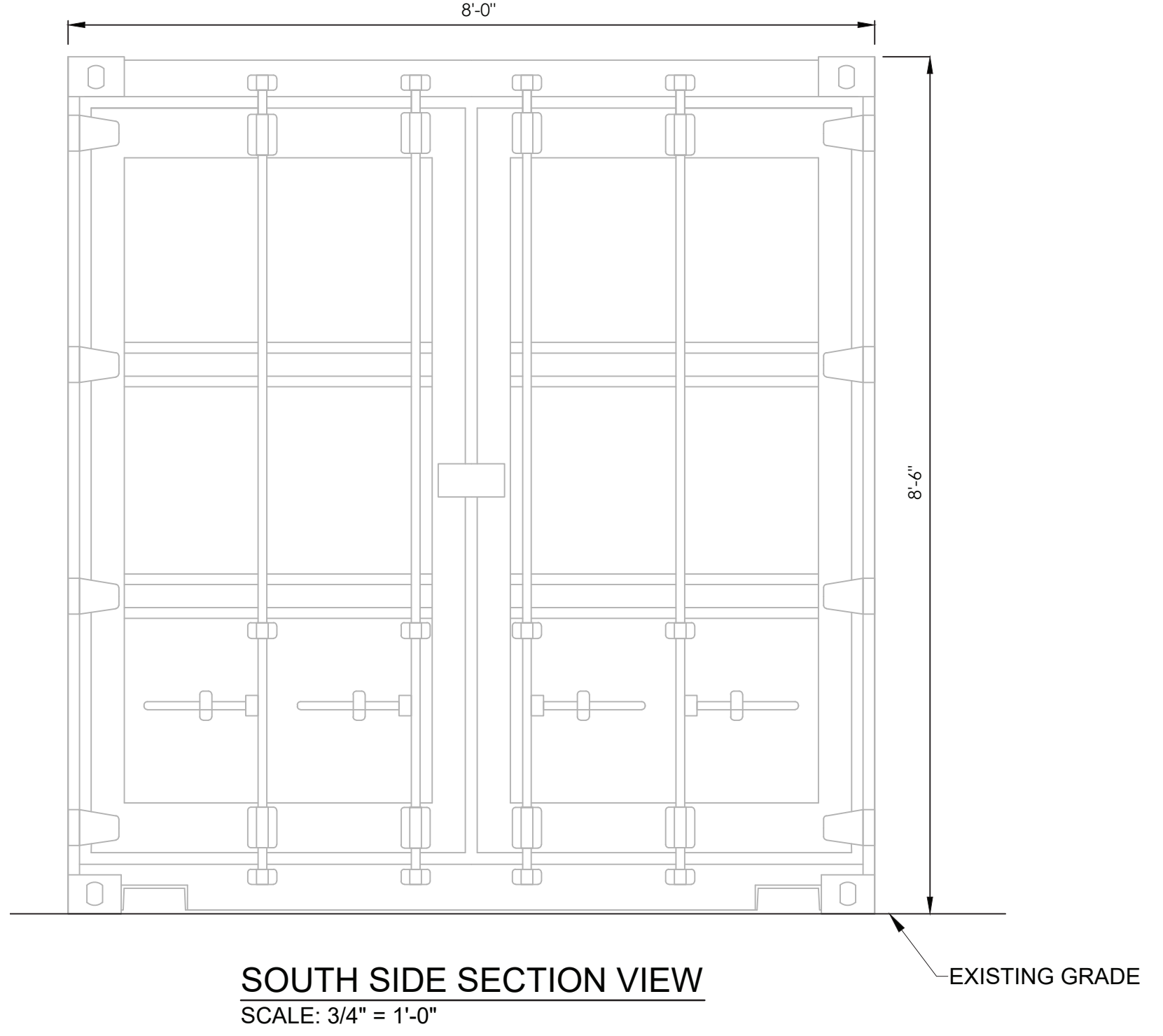
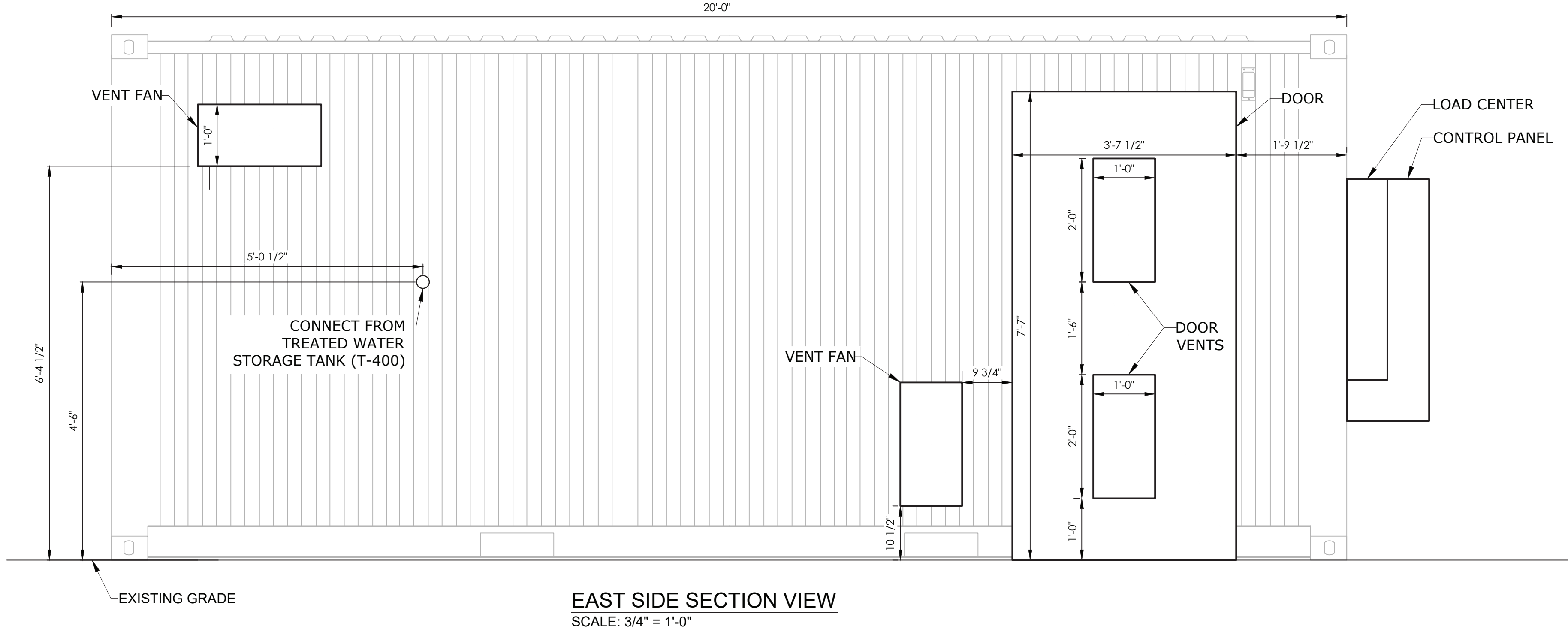
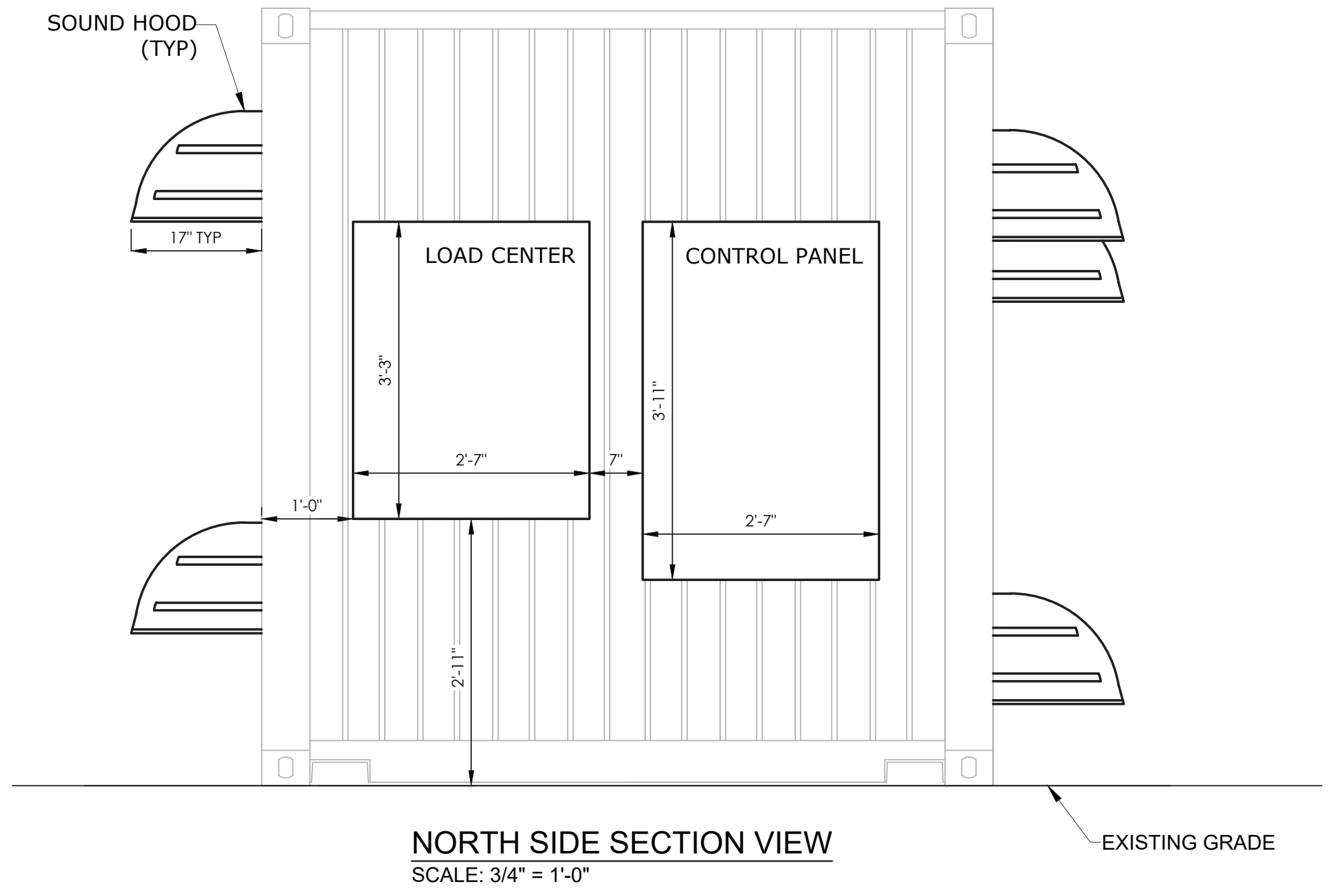
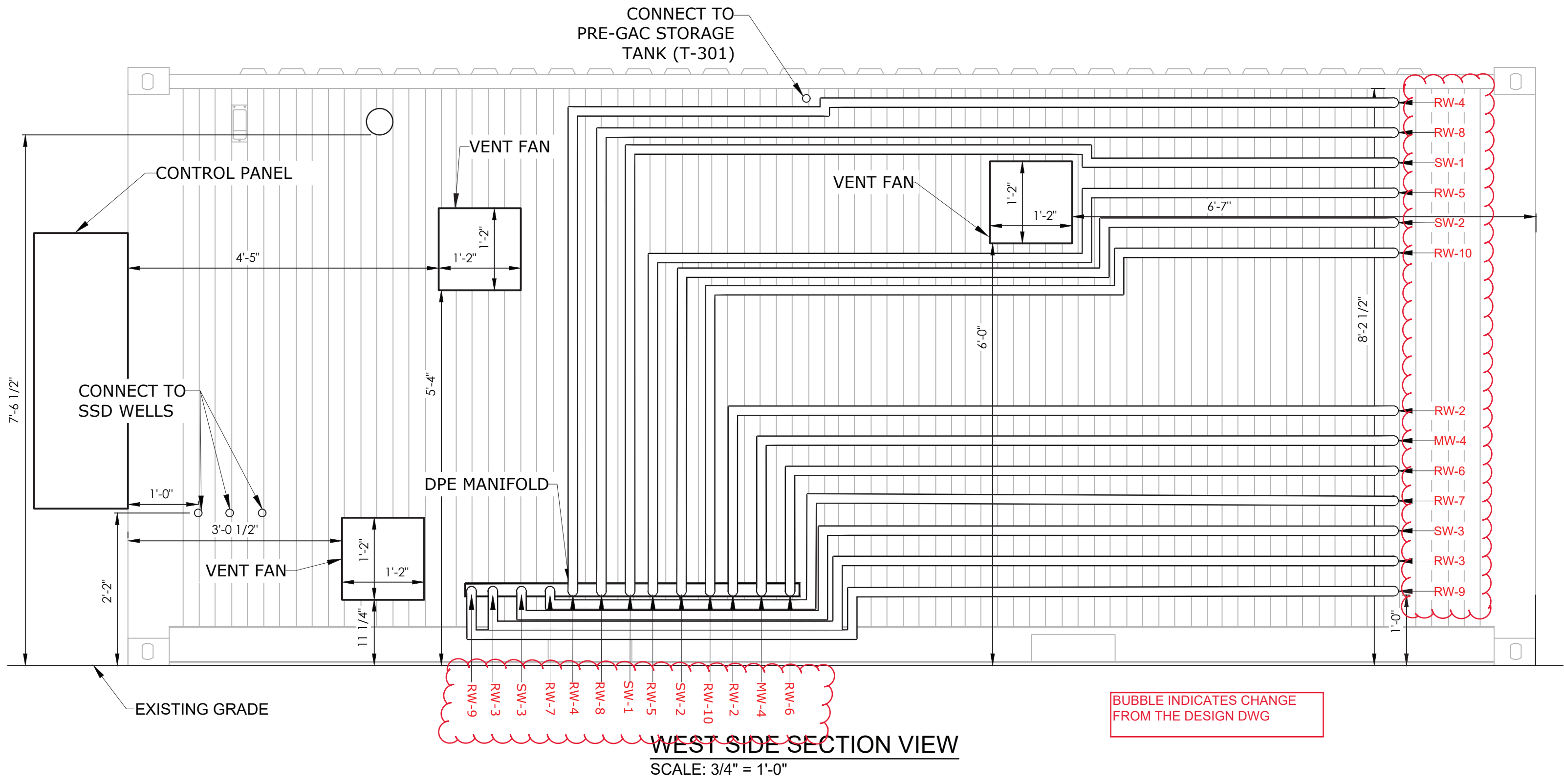
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SCALE
1" = 10'
JOB NO
2196008.00
DATE
APRIL 2024
SHEET 11 OF 24
C-06

Plot Date: 4/16/2024 2:20 PM

User: RICHARD HILLS

File: C:\bms\kjee-pw\cd0181574\219600800-C-07.dwg



THE CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION & INSPECTIONS
APPROVED
Subject to Errors and Omissions
05/17/2024

4455 REGISTERED ARCHITECT
MARK PRESTON
STATE OF WASHINGTON

ISSUED FOR PERMIT				<div>SCALES</div> <div><div>0</div><div></div><div>10"</div></div>				<div><div><div>BEAULMIN EDWARD JENKS</div><div>STATE OF WASHINGTON</div><div>88495</div><div>REGISTERED PROFESSIONAL ENGINEER</div></div><div>4/16/2024</div></div>				<div>DESIGNED</div> <div>CMW</div> <div>DRAWN</div> <div>CMW</div> <div>CHECKED</div> <div>BEF</div>				<div><div><div>WASHINGTON STATE DEPARTMENT OF ECOLOGY</div><div>BELLEVUE, WASHINGTON</div></div><div><div>DEPARTMENT OF ECOLOGY</div><div>State of Washington</div></div></div> <div>CIRCLE K SITE 1461 ENVIRONMENTAL REMEDATION SYSTEM INSTALLATION SEATTLE, WASHINGTON</div> <div><div>KJ</div><div>Kennedy Jenks</div></div>				CONTAINER ELEVATION VIEWS				SCALE															
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NO	REVISION	DATE	BY

Plot Date: 4/16/2024 2:23 PM	ABBREVIATIONS										ELECTRICAL NOTES										ELECTRICAL DEMOLITION NOTES									
	<div><div>'</div><div>"</div><div>#</div><div>%</div><div>&</div><div>@</div><div>+</div><div><</div><div>=</div><div>></div></div> <div><div>A</div><div>A/C</div><div>A/D</div><div>A/M</div><div>ABAN(-D)</div><div>AC</div><div>AF</div><div>AFCI</div><div>AFF</div><div>AFG</div><div>AI</div><div>AIC</div><div>ANN</div><div>ANT</div><div>AO</div><div>APPROX</div><div>ARCH</div><div>AS</div><div>ASD</div><div>AT</div><div>ATS</div><div>AUTO</div><div>AUX</div><div>AWG</div></div> <div><div>AMPERE(-S)</div><div>AIR CONDITIONING</div><div>ANALOG TO DIGITAL</div><div>AUTO/MANUAL</div><div>ABANDON(-ED)</div><div>ALTERNATING CURRENT</div><div>AMPERE FRAME</div><div>ARC-FAULT CIRCUIT INTERRUPTER</div><div>ABOVE FINISHED FLOOR</div><div>ABOVE FINISHED GRADE</div><div>ANALOG INPUT</div><div>AMPERES INTERRUPTING CAPACITY</div><div>ANNUNCIATOR</div><div>ANTENNA</div><div>ANALOG OUTPUT</div><div>APPROXIMATE(-LY)</div><div>ARCHITECT(-URAL)</div><div>AMMETER SWITCH</div><div>ADJUSTABLE SPEED DRIVE (DC)</div><div>AMPERE TRIP</div><div>AUTOMATIC TRANSFER SWITCH</div><div>AUTOMATIC</div><div>AUXILIARY</div><div>AMERICAN WIRE GAGE</div></div> <div><div>G</div><div>GAC</div><div>GAL</div><div>GFCI</div><div>GND</div><div>GRS</div></div> <div><div>GROUND (ELECTRICAL)</div><div>GRANULAR ACTIVATED CARBON</div><div>GALLON(-S)</div><div>GROUND-FAULT CIRCUIT INTERRUPTER</div><div>GROUND</div><div>GALVANIZED RIGID STEEL</div></div> <div><div>H</div><div>HD</div><div>HDPE</div><div>HGR</div><div>HH</div><div>HMI</div><div>HOA</div><div>HOR</div><div>HP</div><div>HR(S)</div><div>HTR</div><div>HVAC</div><div>HZ</div></div> <div><div>HIGH, HEIGHT</div><div>HEAT DETECTOR</div><div>HIGH DENSITY POLYETHYLENE</div><div>HANGER</div><div>HANDHOLE</div><div>HUMAN MACHINE INTERFACE</div><div>HAND-OFF-AUTOMATIC</div><div>HAND-OFF-REMOTE</div><div>HORSEPOWER</div><div>HEATER</div><div>HEATING, VENTILATING, AND</div><div>AIR CONDITIONING</div><div>HERTZ (CYCLES PER SECOND)</div></div> <div><div>I&C</div><div>I/O</div><div>IEEE</div></div> <div><div>INSTRUMENTATION AND CONTROL</div><div>INPUT/OUTPUT</div><div>INSTITUTE OF ELECTRICAL AND</div><div>ELECTRONICS ENGINEERS</div></div> <div><div>IL</div><div>IN</div><div>INST</div><div>INSTR</div><div>IP</div><div>IR</div><div>IS</div><div>ISA</div><div>ISO</div><div>ISR</div></div> <div><div>INDICATING LIGHT</div><div>INCH(-ES)</div><div>INSTANTANEOUS</div><div>INSTRUMENT(-ATION)</div><div>INTERNET PROTOCOL</div><div>INFRARED</div><div>INTRINSICALLY SAFE</div><div>INTERNATIONAL SOCIETY OF</div><div>AUTOMATION</div><div>ISOLAT(-E, -ION)</div><div>INTRINSICALLY SAFE RELAY</div></div> <div><div>JB</div></div> <div><div>JUNCTION BOX</div></div> <div><div>KA</div><div>KCMIL</div><div>KHZ</div><div>KV</div><div>KVA</div><div>KVAR</div><div>KVARH</div><div>KW</div><div>KWH</div></div> <div><div>KILOAMPERE(-S)</div><div>THOUSANDS OF CIRCULAR MILS</div><div>KILOHERTZ</div><div>KILOVOLT(-S)</div><div>KILOVOLT-AMPERE(-S)</div><div>KILOVOLT-AMPERE(-S) REACTIVE</div><div>KILOVOLT-AMPERE REACTIVE HOUR(-S)</div><div>KILOWATT(-S)</div><div>KILOWATT HOUR(-S)</div></div> <div><div>L</div><div>LA</div><div>LAN</div><div>LB(-S)</div><div>LCP</div><div>LCS</div><div>LEL</div><div>LOC</div><div>LOR</div><div>LOTO</div><div>LP</div><div>L-R</div><div>LS</div><div>LT</div><div>LTG</div><div>LV</div></div> <div><div>LENGTH, LINE</div><div>LIGHTNING ARRESTER</div><div>LOCAL AREA NETWORK</div><div>POUND(-S)</div><div>LOCAL CONTROL PANEL</div><div>LOCAL CONTROL STATION</div><div>LOWER EXPLOSIVE LIMIT</div><div>LOCATION</div><div>LOCAL-OFF-REMOTE</div><div>LOCK-OUT, TAG-OUT</div><div>LIGHTING PANELBOARD</div><div>LOCAL-REMOTE</div><div>LIMIT SWITCH</div><div>LIGHT</div><div>LIGHTING</div><div>LOW VOLTAGE</div></div> <div><div>mA</div><div>MAX</div><div>MCB</div><div>MCC</div><div>MCP</div><div>MECH</div><div>MFR</div><div>MH</div><div>MHZ</div><div>MIL(-S)</div><div>MIN</div><div>MISC</div><div>MLO</div><div>MM</div><div>MOC</div><div>MOD(-S)</div><div>MOV</div><div>MT(-D, -G)</div><div>MTR</div><div>MTS</div><div>MV</div></div> <div><div>MILLIAMPERE(-S)</div><div>MAXIMUM</div><div>MAIN CIRCUIT BREAKER</div><div>MOTOR CONTROL CENTER</div><div>MOTOR CIRCUIT PROTECTOR</div><div>MECHANICAL</div><div>MANUFACTURER</div><div>MANHOLE</div><div>MEGAHERTZ</div><div>ONE-THOUSANDTH OF AN INCH</div><div>MINIMUM, MINUTE(-S)</div><div>MISCELLANEOUS</div><div>MAIN LUGS ONLY</div><div>MULTIMODE</div><div>MAXIMUM OVERCURRENT PROTECTION</div><div>MODIF(-Y, -ICATIONS)</div><div>MOTOR OPERATED VALVE</div><div>MOUNT(-ED, -ING)</div><div>MOTOR</div><div>MANUAL TRANSFER SWITCH</div><div>MEDIUM VOLTAGE</div></div> <div><div>N</div><div>N/A</div><div>NAOCL</div><div>NAOH</div><div>NC</div><div>NEC</div><div>NECA</div></div> <div><div>NORTH, NEUTRAL</div><div>NOT APPLICABLE</div><div>SODIUM HYPOCHLORITE</div><div>SODIUM HYDROXIDE</div><div>NORMALLY CLOSED</div><div>NATIONAL ELECTRICAL CODE (NFPA 70)</div><div>NATIONAL ELECTRICAL CONTRACTORS</div><div>ASSOCIATION</div></div> <div><div>NEMA</div><div>NETA</div><div>NFC</div><div>NFPA</div><div>NH3</div><div>NIC</div><div>NO</div><div>NORM</div><div>NTS</div></div> <div><div>NATIONAL ELECTRICAL MANUFACTURER'S</div><div>ASSOCIATION</div><div>INTERNATIONAL ELECTRICAL TESTING</div><div>ASSOCIATION</div><div>NOT FOR CONSTRUCTION</div><div>NATIONAL FIRE PROTECTION</div><div>ASSOCIATION</div><div>AMMONIA</div><div>NOT IN CONTRACT</div><div>NORMALLY OPEN, NUMBER</div><div>NORMAL</div><div>NOT TO SCALE</div></div> <div><div>O/C</div><div>O3</div><div>ODP</div><div>OFCI</div></div> <div><div>OPEN/CLOSE</div><div>OZONE</div><div>OPEN DRIP PROOF</div><div>OWNER FURNISHED, CONTRACTOR</div><div>INSTALLED</div></div> <div><div>OIT</div><div>OL</div><div>ORIG</div><div>OSC</div><div>OT</div></div> <div><div>OPERATOR INTERFACE TERMINAL</div><div>THERMAL OVERLOAD RELAY</div><div>ORIGINAL</div><div>OPEN/STOP/CLOSE</div><div>OVER TEMPERATURE</div></div> <div><div>P</div><div>PA</div><div>PB</div><div>PC(-S)</div><div>PCC</div><div>PE</div><div>PF</div><div>PFR</div><div>PH</div><div>PLC</div><div>PM</div><div>PML</div><div>PNLB</div><div>POE</div><div>PP</div><div>PRI</div><div>PRV</div></div> <div><div>POLE</div><div>PUBLIC ADDRESS</div><div>PULLBOX, PUSHBUTTON</div><div>PIECE(-S), PHOTOCCELL</div><div>POINT OF COMMON COUPLING</div><div>PHOTOELECTRIC</div><div>POWER FACTOR</div><div>POWER FACTOR RELAY</div><div>PHASE</div><div>PROGRAMMABLE LOGIC CONTROLLER</div><div>POWER MONITOR</div><div>PANEL</div><div>PANELBOARD</div><div>POWER OVER ETHERNET</div><div>POWER POLE</div><div>PRIMARY</div><div>PRESSURE RELIEF VALVE, PRESSURE</div><div>REDUCING VALVE</div></div> <div><div>PS</div><div>PT(-S)</div><div>PVC</div><div>PWR</div></div> <div><div>POWER SUPPLY</div><div>POTENTIAL TRANSFORMER</div><div>POLYVINYL CHLORIDE</div><div>POWER</div></div> <div><div>R, RAD</div><div>RCPT</div><div>RCT</div><div>RIO</div><div>RM</div><div>RMT</div><div>RPM</div><div>RST</div><div>RT</div><div>RTU</div><div>RVSS</div></div> <div><div>RADIUS</div><div>RECEPTACLE</div><div>REPEAT CYCLE TIMER</div><div>REMOTE INPUT/OUTPUT</div><div>ROOM</div><div>REMOTE</div><div>REVOLUTIONS PER MINUTE</div><div>RESET</div><div>RESET TIMER</div><div>REMOTE TELEMETRY UNIT</div><div>REDUCED VOLTAGE, SOLID STATE</div></div> <div><div>S/S</div><div>SCADA</div></div> <div><div>START/STOP</div><div>SUPERVISORY CONTROL AND</div><div>DATA ACQUISITION</div></div> <div><div>SCR</div><div>SD</div><div>SEC</div><div>SER</div><div>SGNL</div><div>(SH)</div><div>SHT</div><div>SM</div><div>SP</div><div>SPD</div><div>SPDT</div><div>SPEC(-S)</div><div>SS</div><div>STB</div><div>STD(-S)</div><div>STL</div><div>STP</div><div>STRC</div><div>SWBD</div><div>SWGR</div><div>SYNC</div></div> <div><div>SILICON CONTROLLED RECTIFIER</div><div>SMOKE DETECTOR</div><div>SECONDARY</div><div>SERVICE ENTRANCE RATED</div><div>SIGNAL</div><div>SHIELDED</div><div>SHEET</div><div>SINGLEMODE</div><div>SET POINT</div><div>SURGE PROTECTIVE DEVICE</div><div>SINGLE POLE, DOUBLE THROW</div><div>SPECIFICATION(-S)</div><div>STAINLESS STEEL, SOLID STATE</div><div>SHORTING TERMINAL BLOCK</div><div>STANDARD(-S)</div><div>STEEL</div><div>SHIELDED TWISTED PAIR</div><div>STRUCTUR(-E, -AL)</div><div>SWITCHBOARD</div><div>SWITCHGEAR</div><div>SYNCHRONIZING</div></div> <div><div>T</div><div>TB</div><div>TC</div><div>TCP</div><div>TEFC</div><div>TEL</div><div>TEMP</div><div>TENV</div><div>THRU</div><div>TOT</div><div>TSTAT</div><div>TYP</div></div> <div><div>TIME(-R)</div><div>TERMINAL BLOCK</div><div>TRAY CABLE</div><div>TRANSMISSION CONTROL PROTOCOL</div><div>TOTALLY ENCLOSED FAN COOLED</div><div>TELEPHONE</div><div>TEMPERATURE, TEMPORARY</div><div>TOTALLY ENCLOSED NON-VENTILATED</div><div>THROUGH</div><div>TOTAL, TOTALIZE(R)</div><div>THERMOSTAT</div><div>TYPICAL</div></div> <div><div>UG</div><div>UL</div><div>UNKN</div><div>UPS</div><div>UTP</div><div>UV</div></div> <div><div>UNDERGROUND</div><div>UNDERWRITERS LABORATORIES</div><div>UNKNOWN</div><div>UNINTERRUPTIBLE POWER SUPPLY</div><div>UNSHIELDED TWISTED PAIR</div><div>ULTRAVIOLET</div></div> <div><div>V</div><div>V/S</div><div>VA</div></div> <div><div>VOLTS</div><div>VARIABLE SPEED</div><div>VOLT-AMPERES</div></div> <div><div>VAR</div><div>VCP</div><div>VFD</div><div>VFI</div><div>VS</div><div>W</div><div>W/</div><div>W/O</div><div>WAN</div><div>WHDM</div><div>WHM</div><div>WP</div><div>WR</div><div>WTP</div><div>WTR</div><div>WW</div><div>WWTP</div><div>XFMR</div><div>XP</div></div> <div><div>VARIABLE, VARIABLE, VOLT-AMPERES</div><div>REACTIVE</div><div>VENDOR CONTROL PANEL</div><div>VARIABLE FREQUENCY DRIVE (AC)</div><div>VACUUM FAULT INTERRUPTER</div><div>VOLTMETER SWITCH</div><div>WIDE, WIDTH, WIRE, WATTS, WEST</div><div>WITH</div><div>WITHOUT</div><div>WIDE AREA NETWORK</div><div>WATT-HOUR DEMAND METER</div><div>WATT-HOUR METER</div><div>WEATHERPROOF, WEATHER PROTECTED</div><div>WEATHER RESISTANT</div><div>WATER TREATMENT PLANT</div><div>WATER</div><div>WASTEWATER</div><div>WASTEWATER TREATMENT PLANT</div><div>TRANSFORMER</div><div>EXPLOSION PROOF</div></div>																													
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THIS IS A GENERALIZED LEGEND SHEET. THIS CONTRACT MAY NOT USE ALL INFORMATION SHOWN.

THE INSTALLATION OF ALL EQUIPMENT, RACEWAYS, CONDUCTORS, AND CABLES SHOWN ON THESE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AND UTILITY COMPANY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY AND VERIFY THEIR REQUIREMENTS.

ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE PROJECT TO VERIFY THE SCOPE OF WORK WITH FIELD CONDITIONS. PARTICULAR ATTENTION SHOULD BE GIVEN TO NEW CONDUIT RUNS IN EXISTING BUILDINGS.

NOTIFY THE ENGINEER IMMEDIATELY IN WRITING IF CONFLICTS IN EQUIPMENT LOCATIONS ARE DISCOVERED OR IF PROBLEMS ARISE DUE TO FIELD CONDITIONS, LACK OF INFORMATION OR ANY OTHER REASON. NO PAYMENT WILL BE MADE FOR CHANGES WHICH HAVE NOT BEEN FAVORABLY REVIEWED BY THE ENGINEER.

CONDUIT ROUTING SHOWN ON PLAN DRAWINGS IS DIAGRAMMATIC ONLY. RACEWAYS SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT OR STRUCTURAL CONDITIONS. EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BEAMS AND WALLS. REFER ALSO TO THE CONTRACT SPECIFICATIONS.

VERIFY THE EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES TO ALL EQUIPMENT AGAINST APPROVED SHOP DRAWINGS BEFORE STUBBING UP CONDUITS. CONDUIT STUB-UPS SHALL NOT BE MORE THAN 6 INCHES FROM THE CENTERLINE OF TERMINAL BOXES.

CONNECTIONS BETWEEN RIGID CONDUIT AND MOTOR TERMINAL BOXES OR SIMILAR EQUIPMENT SUBJECT TO VIBRATION SHALL BE FLEXIBLE LIQUID-TIGHT CONDUIT.

CONDUITS SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTION TO MOTORS AND OTHER EQUIPMENT.

CONDUITS FOR FUTURE EQUIPMENT OR EXTENSIONS SHALL BE TERMINATED AS SHOWN IN THE DETAILS OR AS SPECIFIED.

LOCATIONS OF PULLBOXES ARE APPROXIMATE. COORDINATE EXACT LOCATION IN THE FIELD TO ENSURE 6 INCHES (MINIMUM) CLEARANCE FROM MECHANICAL PIPING FLOW LINES.

ONLY MAJOR PULLBOXES ARE SHOWN. PROVIDE ADDITIONAL PULLBOXES WHERE REQUIRED TO MAKE A WORKABLE INSTALLATION.

PERFORM WORK IN ACCORDANCE WITH THE DETAILS WHETHER OR NOT THEY ARE REFERENCED ON THE DRAWINGS.

VERIFY ALL COLOR REQUIREMENTS BEFORE ORDERING MATERIALS.

THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.

REFER TO THE MECHANICAL DRAWINGS FOR CERTAIN CONTROL DIAGRAMS, EXACT LOCATIONS OF MECHANICAL EQUIPMENT, AND FOR CERTAIN CONNECTIONS TO BE MADE TO ELECTRICAL CIRCUITS.

CONDUIT SIZE AND FILL SHALL BE AS INDICATED ON THE CONDUIT AND CABLE SCHEDULES. WHERE NO SIZE IS SHOWN, THE CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY THE AUTHORITY HAVING JURISDICTION. MINIMUM CONDUIT SIZE IS 3/4 INCH, EXCEPT WHERE ENCASED OR BURIED. MINIMUM ENCASED OR BURIED CONDUIT SIZE IS 1 INCH.

PROVIDE EXPANSION OR EXPANSION AND DEFLECTION FITTINGS FOR ALL CONDUIT RUNS CROSSING EXPANSION JOINTS. REFER TO THE STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION JOINTS.

PROVIDE 3/16 INCH NYLON PULL ROPE IN EACH EMPTY CONDUIT.

FOR LIGHTING AND RECEPTACLE SYSTEMS, ONLY CIRCUIT NUMBERS ARE SHOWN. PROVIDE ALL NECESSARY CONDUITS, WIRES, FITTINGS, JUNCTION BOXES AND NECESSARY COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS, TO MAKE THE ELECTRICAL INSTALLATION COMPLETE AND OPERATIONAL. SIZE CONDUITS AND WIRING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ALL CONDUIT RUNS SHALL BE CONCEALED UNLESS INDICATED OTHERWISE. CIRCUIT LOADING SHALL BE AS INDICATED IN THE PANEL SCHEDULES. ALL LIGHTING AND RECEPTACLE CIRCUITS SHALL INCLUDE GROUND WIRE.

MOUNT LUMINAIRES ACCORDING TO THE MOUNTING HEIGHT GIVEN ON THE DRAWINGS, WITH THE DISTANCE BEING MEASURED FROM THE BOTTOM OF THE LUMINAIRE TO THE FINISHED FLOOR. PROVIDE APPROPRIATE BRACKETS AND HARDWARE FOR MOUNTING.

ALL RECEPTACLES IN OUTDOOR AND ANTICIPATED WET AREAS SHALL BE GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES WITH WEATHERPROOF WHILE IN-USE COVERS.

ALL FREE STANDING ELECTRICAL EQUIPMENT AND CONTROL PANELS SHALL BE SET ON CONCRETE HOUSEKEEPING PADS WITH LEVELING CHANNELS EMBEDDED IN THE PAD.

ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE CENTERLINE OF THE TOP CIRCUIT BREAKER OPERATING HANDLE IN THE UPPERMOST POSITION TO THE FINISHED FLOOR SHALL NOT EXCEED 6'-7".

ALL SURFACE MOUNTED PANELS AND PANELBOARDS ON THE INTERIOR OF EXTERIOR WALLS ABOVE GRADE OR IN OTHER LOCATIONS CONSIDERED DAMP OR WET SHALL BE MOUNTED SO AS TO MAINTAIN A 1/4 INCH (MINIMUM) AIR SPACE BETWEEN THE ENCLOSURE AND THE WALL.

PROVIDE LOCKOUTS IN STRICT ACCORDANCE WITH OWNER'S REQUIREMENTS.

REFER TO THE SINGLE LINE DIAGRAMS, EQUIPMENT ELEVATIONS, PANELBOARD SCHEDULES, AND COMPONENT/DEVICE LABELS IN THE CONTROL SCHEMATICS FOR NAMEPLATE INFORMATION. SEE THE CONTRACT SPECIFICATIONS FOR NAMEPLATE SIZE, COLOR, MATERIAL, AND PLACEMENT REQUIREMENTS.

"NORMAL" STATUS OF SWITCHES OR CONTACTS SHOWN IN CONTROL SCHEMATICS IS THE SHELF POSITION.

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BIDDING CONTRACTORS SHALL VISIT THE SITE TO ASSESS THE SCOPE OF DEMOLITION, REMOVAL AND MODIFICATION WORK.

ELECTRICAL CONTRACTOR AND THE OWNER SHALL DE-ENERGIZE ALL WIRING PRIOR TO REMOVAL OF EQUIPMENT, DEVICES, MOTORS INSTRUMENTATION, CONTROL PANELS, ETC. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE OWNER.

EXPOSED RACEWAYS: REMOVE CONDUIT, WIRES, AND BOXES. PATCH TO MATCH EXISTING. FINISH ALL OPENINGS LEFT IN WALLS AND FLOORS.

CONCEALED CONDUITS IN THE SLAB: REMOVE EXISTING WIRES TO THE EXTENT POSSIBLE AND ABANDON CONDUITS IN THE SLAB. CUT CONDUIT FLUSH AND PATCH THE FLOOR TO MATCH EXISTING.

CONTROL PANELS: ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE ALL CONDUIT AND WIRE AS DESCRIBED IN NOTES 3 AND 4. CONTRACTOR SHALL REMOVE PANELS AS NOTED ON THE CONTRACT DRAWINGS.

MOTOR CONTROL CENTERS: DISCONNECT AND REMOVE ALL CONDUITS AND WIRING TO EXISTING STARTERS AND/OR BREAKERS, PANELBOARDS, BRANCH CIRCUITS, INTERLOCKS AND STATUS WIRING WITHIN MCC.

REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL ELECTRICAL DEMOLITION AND REMOVAL REQUIREMENTS.

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DATE

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WASHINGTON STATE DEPARTMENT OF ECOLOGY

BELLEVUE, WASHINGTON

CIRCLE K SITE 1461 ENVIRONMENTAL

REMEDATION SYSTEM INSTALLATION

SEATTLE, WASHINGTON

KJ

Kennedy Jenks

SCALE

AS SHOWN

JOB NO

2196008.00

DATE

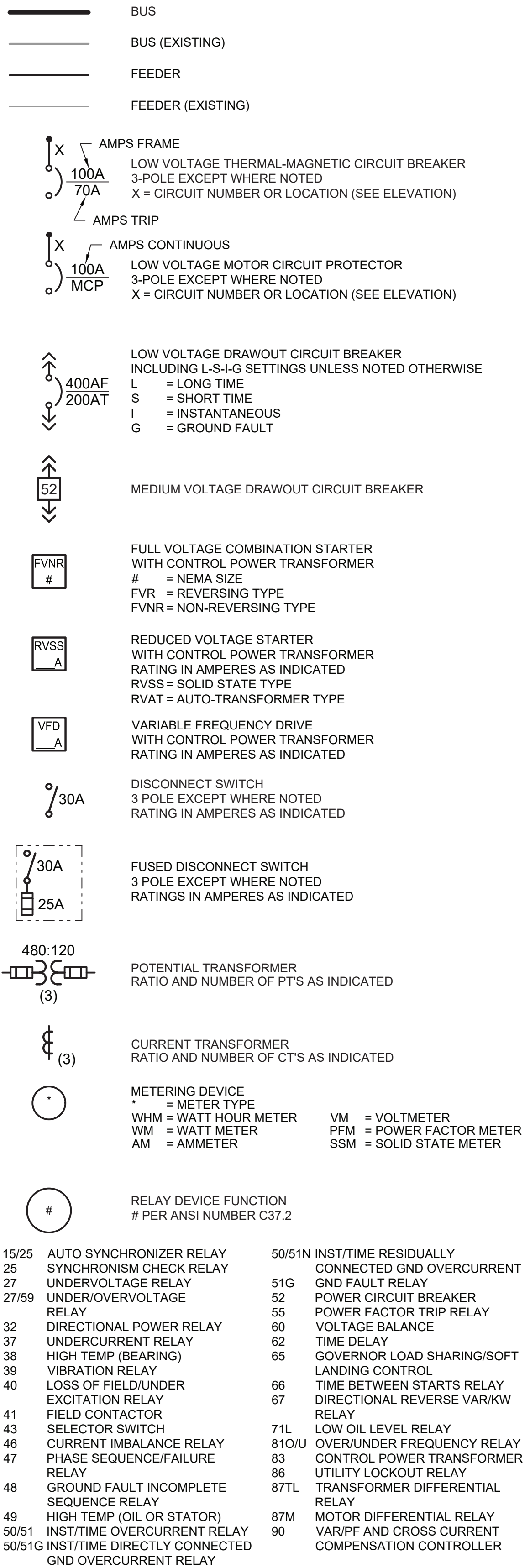
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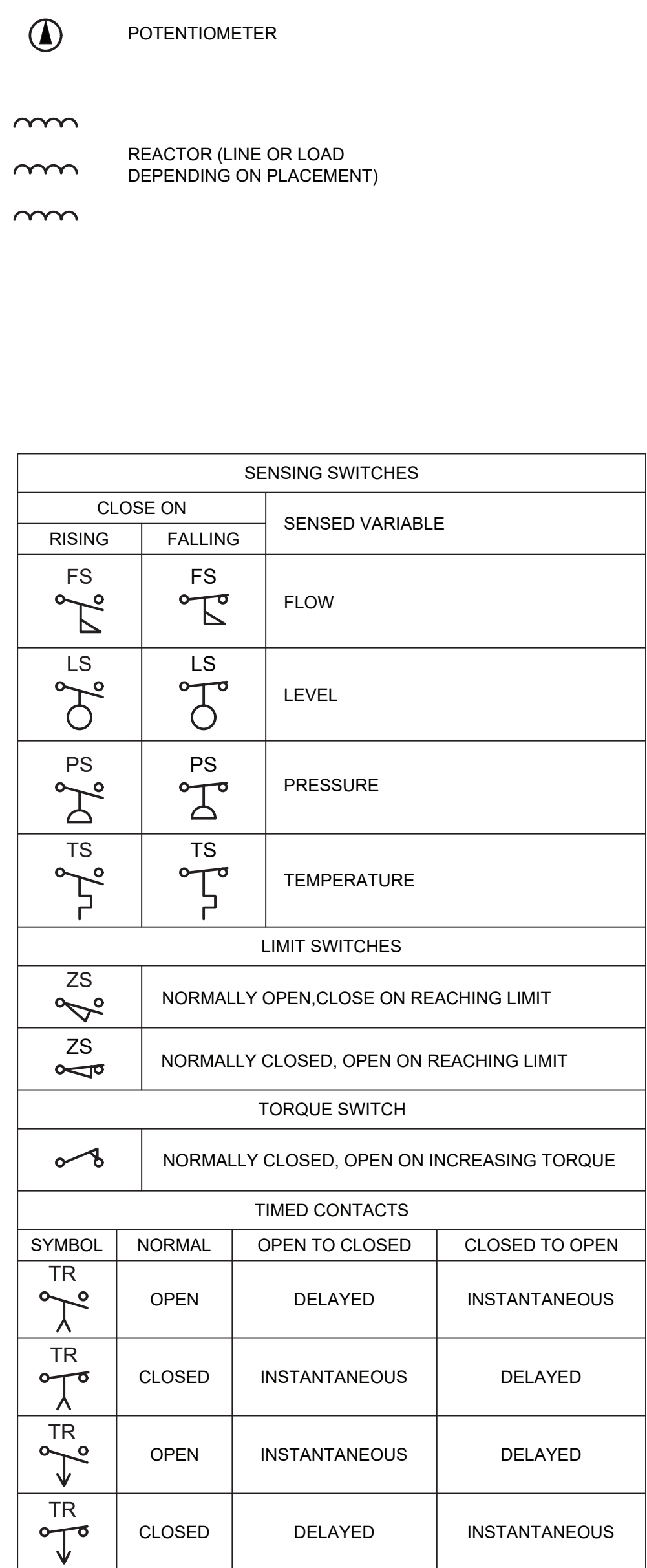
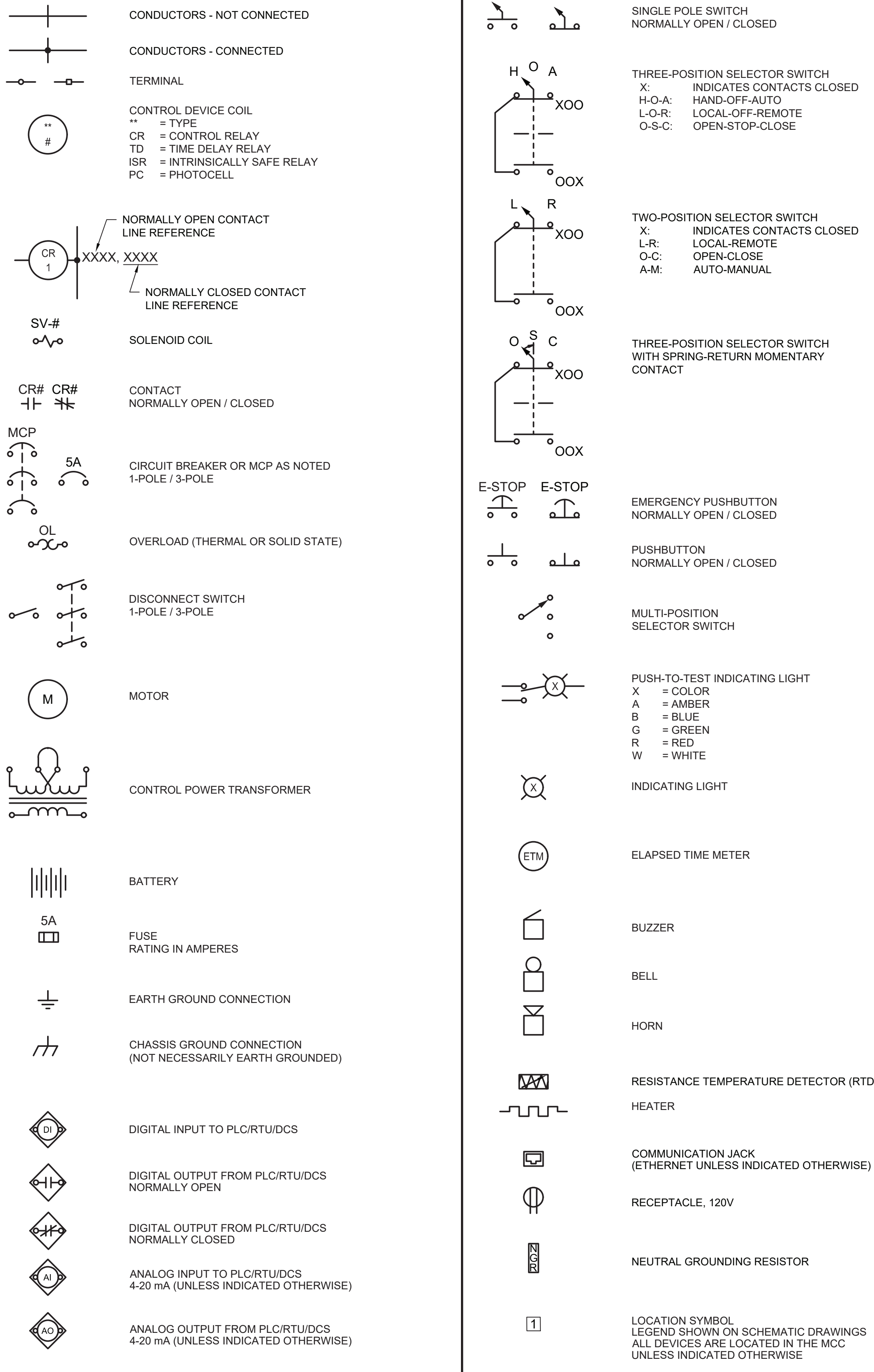
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SINGLE LINE DIAGRAM SYMBOLS



CONTROL SCHEMATIC SYMBOLS



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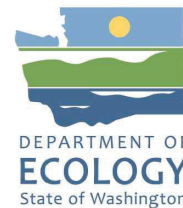


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WASHINGTON STATE DEPARTMENT OF ECOLOGY
BELLEVUE, WASHINGTON
CIRCLE K SITE 1461 ENVIRONMENTAL
REMEDATION SYSTEM INSTALLATION
SEATTLE, WASHINGTON



Kennedy Jenks

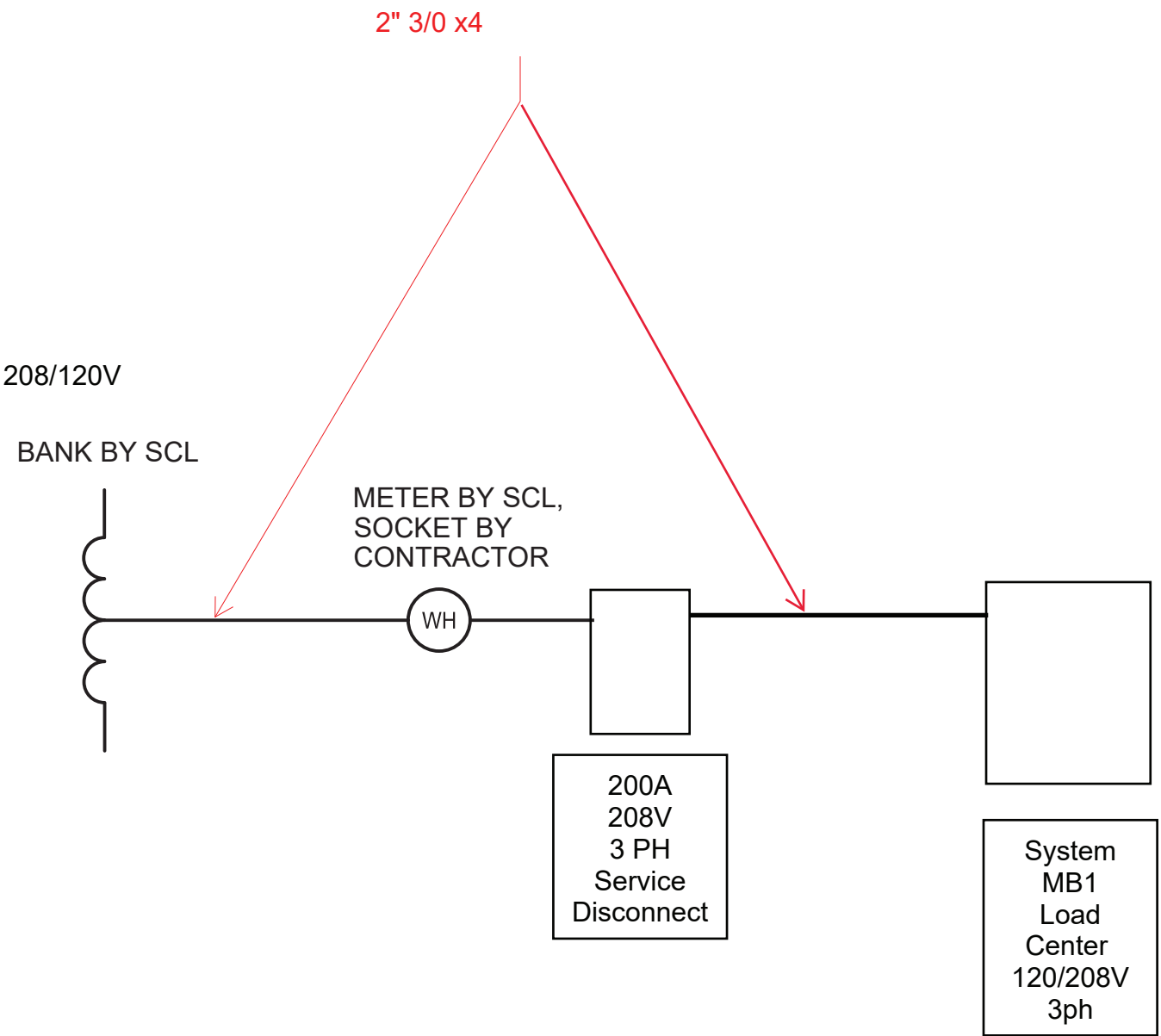
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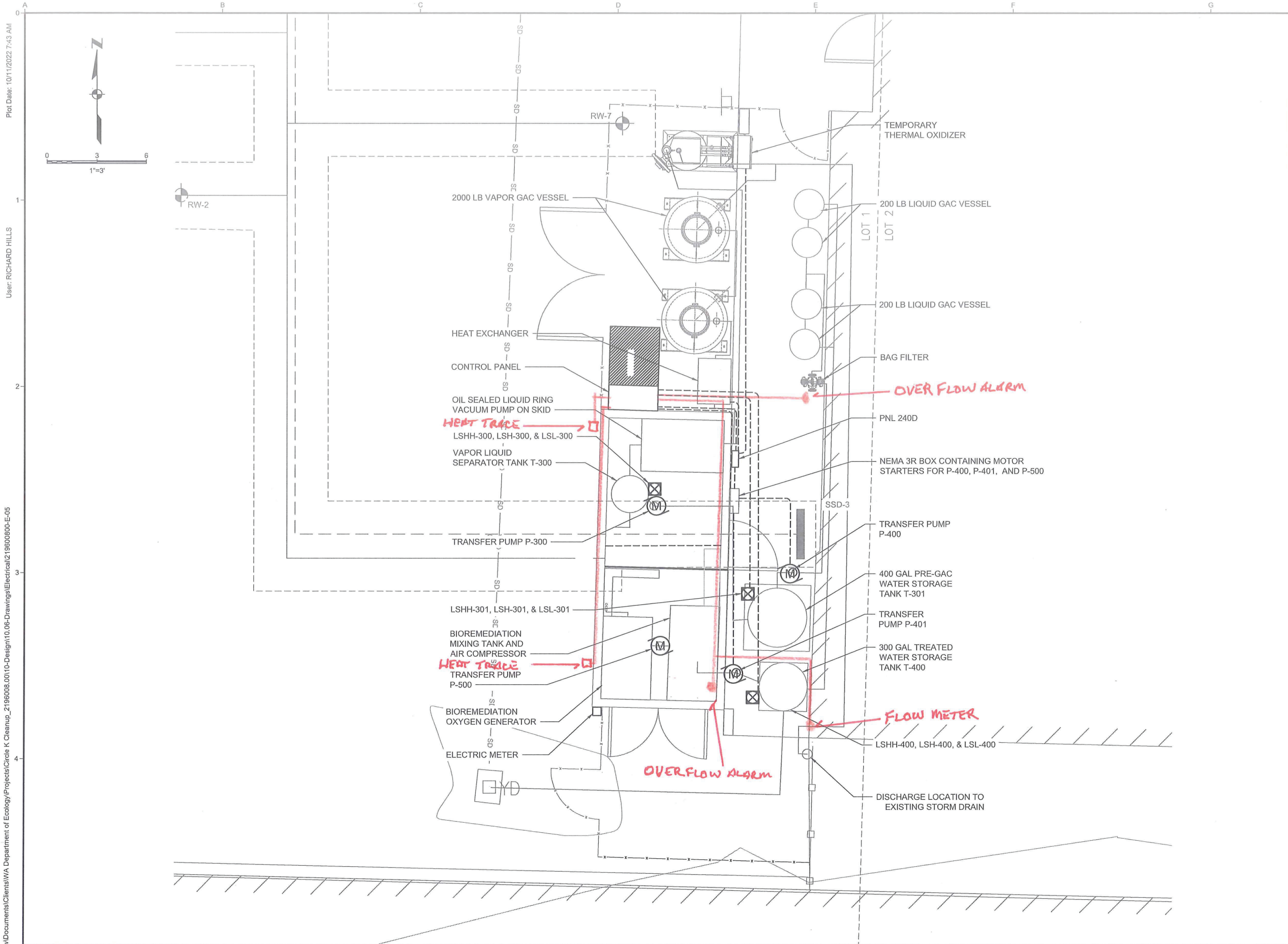
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PANEL LOADS ON CP-1

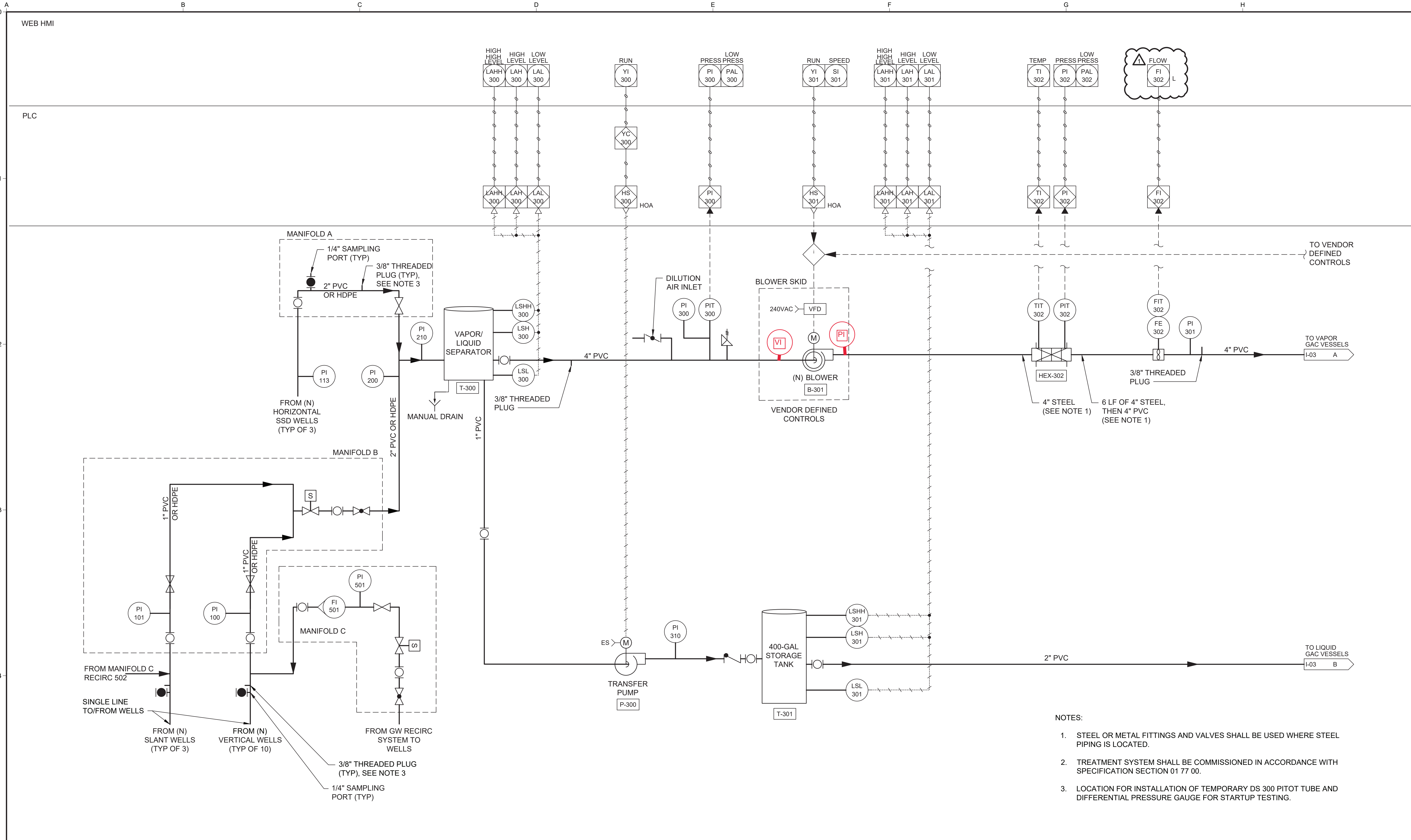
I.D.	GLACIER8135 (DWG #8135
Voltage	120/208V
Phase	3
Panel FLA	162
Frequency	60hz
SCCR	10ka
Largest Motor:	20hp, 52 f/a
Nema Rating:	4
PANEL CLASSIFICATION: UL508A / UL898A	






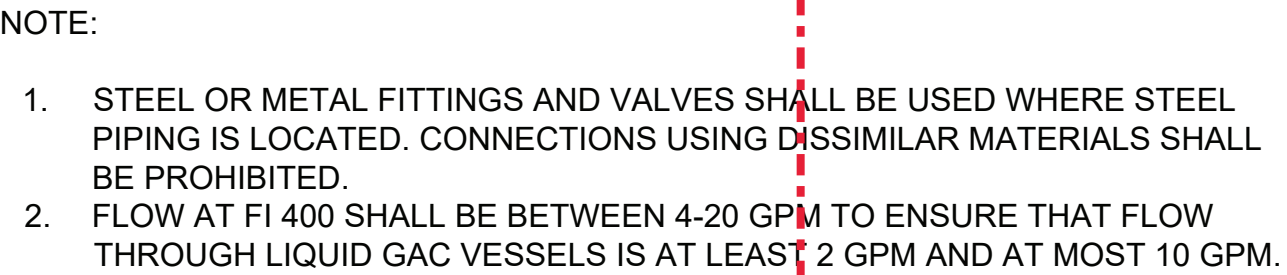
ONE LINE DIAGRAM

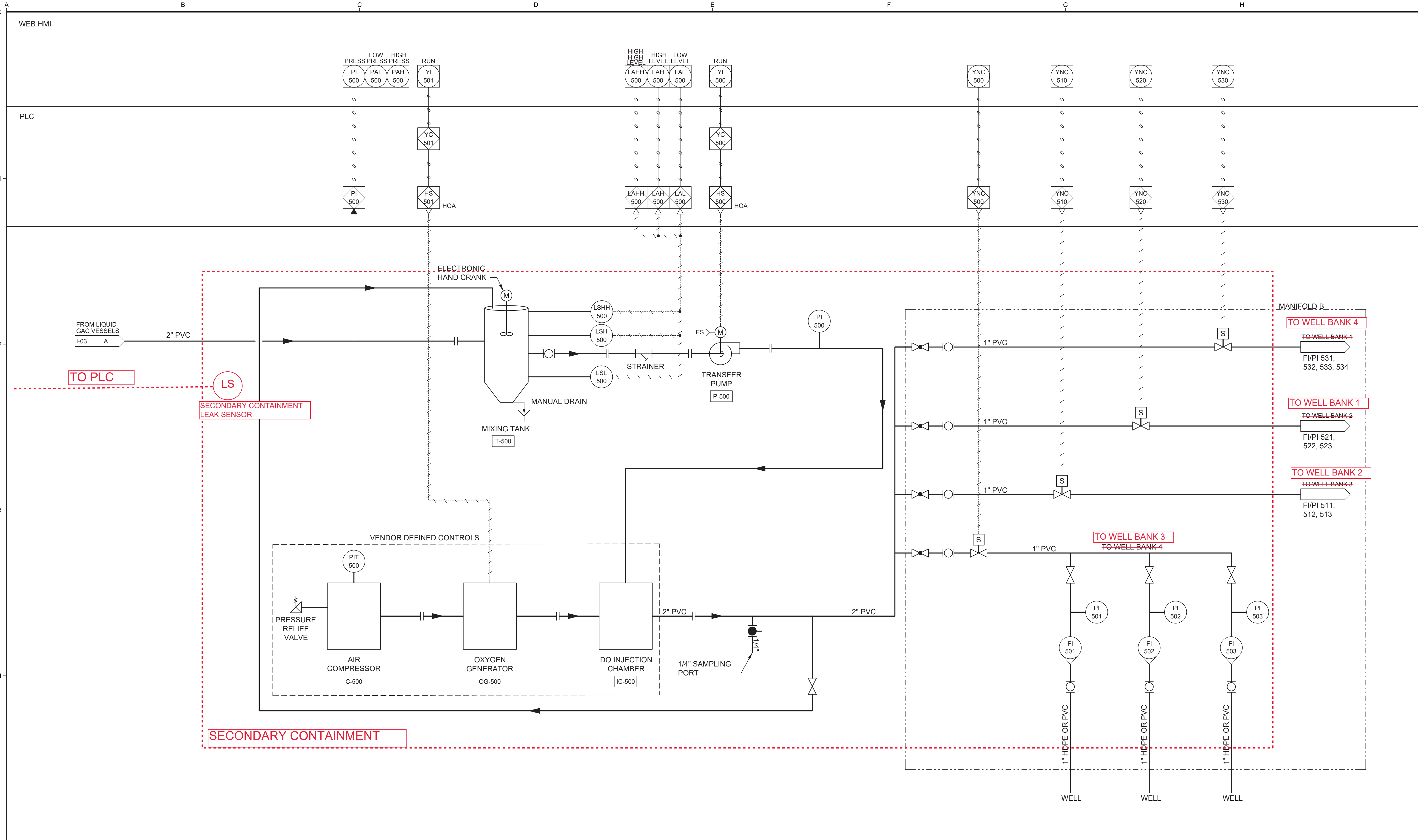





- GENERAL SHEET NOTES
1. ALL CONDUITS SHOWN ARE SCHEMATIC, AND NOT THE ACTUAL PATH FROM ONE END TO THE OTHER. ROUTE ALL CONDUITS UNDER PAVEMENT OR OVERHEAD AS NECESSARY TO AVOID TRIPPING OR OTHER HAZARDS. UNDER PAVEMENT CONDUIT MAY BE PVC SCHEDULE 80. ABOVE GROUND AND TRANSITIONAL PIECES SHALL BE RIGID GALVANIZED STEEL CONDUIT. SIZE IN COMPLIANCE WITH CONDUIT FILL REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
 2. PROVIDE EQUIPMENT AS SHOWN IN PREFABRICATED SHELTER STRUCTURE, PREWIRED TO ALL INTERNAL ELECTRICAL COMPONENTS, AND WIRED TO EXTERNAL ABUTTING PANELS FOR CONTROL AND POWER. THE "VACUUM BLOWER" UNIT AND ASSOCIATED EQUIPMENT HAVE BEEN EVALUATED AS MAKING THE ENCLOSED SPACE CLASS 1, GROUP D, DIVISION 2 PER NEC ARTICLE 501, AND MUST BE INSTALLED IN COMPLIANCE WITH INSTALLATIONS IN SUCH A SPACE. THE "DO-IT" UNIT AND ASSOCIATED EQUIPMENT ARE UNCLASSIFIED IN AN ENCLOSED SPACE. THE CONTRACTOR MAY MITIGATE THE CLASSIFIED SPACE BY MAKING ALL EQUIPMENT IN A SINGLE SPACE SUITABLE FOR DIVISION 2 OR MAY SEPARATE THE EQUIPMENT INTO TWO SPACES. PROVIDE ALL SEALS AND OTHER APPURTENANCES REQUIRED BY NEC AT THE BOUNDARY BETWEEN THE CLASSIFIED SPACE AND THE EXTERIOR OF THE SHELTER.
 3. PROVIDE CONTROL PANEL WITH PROGRAMMABLE LOGIC CONTROLLER (PLC) FOR ALL EQUIPMENT AT THE SITE. CONTRACTOR SHALL COORDINATE INTERNAL SHELTER WIRING AND EXTERNAL WIRING AS SHOWN. PROVIDE LOCAL HMI FUNCTIONALITY AND AUTODIALING OF ALARM CONDITIONS. SEE SPECIFICATION XXX (CONTROL STRATEGY) FOR DETAILS REGARDING FUNCTION OF CONTROL AND COMMUNICATION SYSTEM.
 4. PANEL PNL-240D IS SHOWN WITH ALL CIRCUITS FOR THE SITE ANTICIPATED, BOTH INTERNAL AND EXTERNAL TO THE SHELTER. CONNECT ALL INTERNAL LOADS FROM THE SHELTER AND ALL EXTERNAL LOADS AS SHOWN. IF ACTUAL LOADS DEVIATE FROM INDICATED LOADS, OR ADDITIONAL LOADS ARE ADDED OR INDICATED LOADS ARE DELETED, CONTRACTOR SHALL PREPARE REVISED PANEL SCHEDULE AND LOAD SUMMARY TO SUBMIT TO AHJ FOR APPROVAL.



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CONSTRUCTION STORMWATER CONTROL (CSC) GENERAL NOTES

- A FIRST GROUND DISTURBANCE INSPECTION IS REQUIRED PRIOR TO START OF WORK ON ALL SITES WITH LAND DISTURBING ACTIVITY. SCHEDULE A FIRST GROUND DISTURBANCE INSPECTION FOR AN ISSUED BUILDING PERMIT AT 206-684-8900 OR ONLINE AS DESCRIBED AT <http://www.seattle.gov/sdci/inspections/site-development-inspections>
- THE APPLICANT SHALL DESIGNATE AN EROSION AND SEDIMENT CONTROL (ESC) SUPERVISOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs). FOR LARGE CONSTRUCTION PROJECTS, THE ESC SUPERVISOR SHOULD BE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL). PROVIDE THE NAME AND PHONE NUMBER OF THE ESC SUPERVISOR TO THE SITE INSPECTOR AT THE FIRST GROUND DISTURBANCE INSPECTION.
- BMPs SHALL BE INSTALLED PRIOR TO STARTING CONSTRUCTION TO ENSURE SEDIMENT-LADEN WATER DOES NOT LEAVE THE PROJECT SITE OR ENTER ROADSIDE DITCHES, STORM DRAINS, SURFACE WATERS, OR WETLANDS.
- THE BMPs INCLUDED IN THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. THE APPLICANT IS RESPONSIBLE FOR ENSURING THAT BMPs ARE MODIFIED AS NEEDED FOR UNEXPECTED STORM EVENTS OR OTHER UNFORESEEN CIRCUMSTANCES, AND TO ACCOUNT FOR CHANGING SITE CONDITIONS.
- ANY AREAS OF DISTURBED SOIL THAT WILL NOT BE WORKED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) SHALL BE IMMEDIATELY STABILIZED WITH APPROVED BMPs METHODS (E.G. STRAW, MULCH, PLASTIC COVERING, COLD MIX, ETC.)
- GRADING AND/OR SOIL DISTURBING ACTIVITIES MAY BE LIMITED OR PROHIBITED FOR CERTAIN SITES SUBJECT TO ECA STANDARDS (I.E. ECA STEEP SLOPES, LANDSLIDE PRONE AREAS, ETC.) BETWEEN OCTOBER 31ST AND APRIL 1ST. IF NOTED IN THE GEOTECHNICAL SPECIAL INSPECTIONS REQUIREMENTS, A GRADING SEASON EXTENSION LETTER (GSEL) ISSUED BY SDCI IS REQUIRED FOR ALL GRADING AND/OR SOIL DISTURBING ACTIVITIES DURING THIS PERIOD. THE GEOTECHNICAL SPECIAL INSPECTOR MUST SUBMIT ELECTRONIC APPLICATIONS FOR A GSEL USING THE SDCI PROJECT PORTAL. ALLOW FOUR TO SIX WEEKS FOR PROCESSING. FAILURE TO OBTAIN THE GSEL PRIOR TO OCTOBER 31 MAY RESULT IN A WORK STOPPAGE.
- CITY STREETS AND SIDEWALKS SHALL BE KEPT CLEAN AT ALL TIMES. NO MATERIAL SHALL BE STORED ON CITY STREETS OR SIDEWALKS WITHOUT A STREET USE PERMIT FROM THE SEATTLE DEPARTMENT OF TRANSPORTATION (SDOT).
- POLLUTION CONTROL MEASURES SHALL BE FOLLOWED TO ENSURE THAT NO LIQUID PRODUCTS OR CONTAMINATED WATER ENTERS ANY STORM DRAINAGE FACILITIES OR OTHERWISE LEAVES THE PROJECT SITE. ANY HAZARDOUS MATERIALS OR LIQUID PRODUCTS THAT HAVE THE POTENTIAL TO POLLUTE RUNOFF SHALL BE STORED AND DISPOSED OF PROPERLY.
- ENSURE THAT WASHOUT FROM CONCRETE TRUCKS IS PERFORMED OFF-SITE OR IN DESIGNATED CONCRETE WASHOUT AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCKS ONTO THE GROUND, OR TO STORM DRAINS OR OPEN DITCHES. DO NOT DUMP EXCESS CONCRETE ONSITE, EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS.
- ALL AREAS OF DISTURBED SOIL SHALL BE FULLY STABILIZED WITH THE APPROPRIATE SOIL AMENDMENT AND COVER MEASURES AT COMPLETION OF THE PROJECT. TYPICAL COVER MEASURES INCLUDE LANDSCAPING OR HYDROSEED WITH MULCH.

CONSTRUCTION STORMWATER CONTROL (CSC) PLAN REQUIREMENTS / NARRATIVE

SHOW TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES (BMPs) IN THE PLAN VIEW OF THIS SHEET THAT WILL ACCOMPLISH THE MINIMUM REQUIREMENTS DESCRIBED IN THE NARRATIVE BELOW. THE BMPs SHOWN IN THE PLAN VIEW OF THIS PLAN ARE THE MINIMUM REQUIRED. ADDITIONAL BMPs ARE REQUIRED WHEN MINIMUM CONTROLS ARE NOT SUFFICIENT TO PREVENT EROSION OR TRANSPORT OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE.

- MARK CLEARING LIMITS
- DELINEATE ENVIRONMENTALLY CRITICAL AREAS
- RETAIN TOP LAYER AND NATIVE VEGETATION
- ESTABLISH CONSTRUCTION ACCESS
- PROTECT DOWNSTREAM PROPERTIES AND RECEIVING WATERS
- PREVENT EROSION AND SEDIMENT TRANSPORT FROM THE SITE
- STABILIZE SOILS
- PROTECT SLOPES
- PROTECT STORM DRAINS
- STABILIZE CHANNEL AND OUTLETS
- CONTROL POLLUTANTS
- CONTROL DEWATERING
- MAINTAIN AND INSPECT BMPs
- EXECUTE CONSTRUCTION STORMWATER CONTROL PLAN
- MINIMIZE OPEN TRENCHES
- PHASE THE PROJECT
- INSTALL PERMANENT FLOW CONTROL AND WATER QUALITY FACILITIES
- PROTECT STORMWATER BMPs PRIOR TO, DURING, AND AFTER CONSTRUCTION

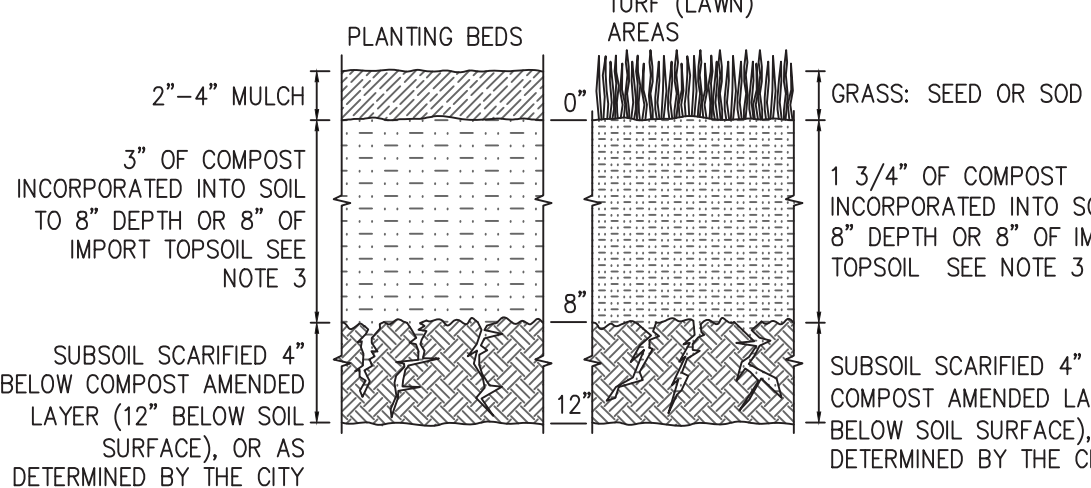
POST CONSTRUCTION SOIL MANAGEMENT PLAN

AT THE END OF PROJECT, ALL AREAS DISTURBED AND NOT COVERED WITH A HARD SURFACE MUST BE AMENDED PER THE SOIL AMENDMENT DETAIL BELOW AND PROBE TO 12-INCHES AT THE SITE FINAL INSPECTION.

LABEL ALL AREAS DISTURBED AND NOT COVERED WITH A HARD SURFACE AS ONE OF THE FOLLOWING: SA (SOIL AMENDMENT AREA) or ND (NON-DISTURBED AREA).

- NON-DISTURBED AREA (ND): VEGETATED AREAS THAT WILL NOT BE SUBJECT TO LAND DISTURBING ACTIVITY DO NOT REQUIRE SOIL AMENDMENT IF THEY ARE FENCED AND CONTINUOUSLY PROTECTED THROUGHOUT CONSTRUCTION. THE FENCING MUST BE IN PLACE AT THE FIRST GROUND DISTURBANCE INSPECTION. NO DISTURBANCE, INCLUDING VEHICLE TRAFFIC OR MATERIAL STORAGE, IS ALLOWED IN THESE AREAS UNTIL FINAL INSPECTION.
- SOIL AMENDMENT AREA (SA): VEGETATED OR COMPOST AREAS (TURF AND LANDSCAPE) MUST BE AMENDED PER THE SOIL AMENDMENT DETAIL. THIS INCLUDES AREAS IMPACTED BY CLEARING AND GRADING, STOCKPILING, SITE ACCESS, PATHWAYS AND MATERIALS OR EQUIPMENT STORAGE.

SOIL AMENDMENT

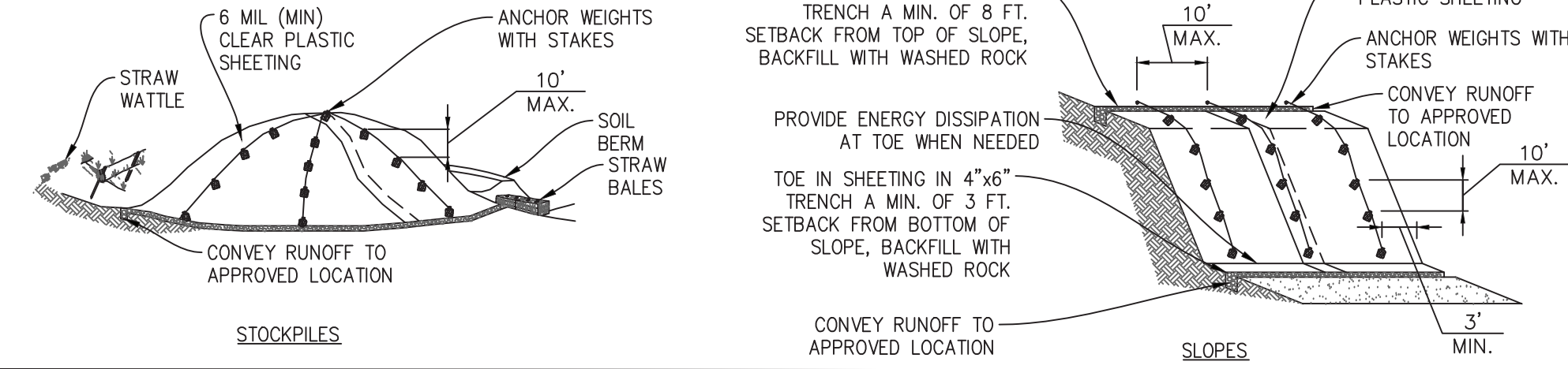


NOTES:

- POST CONSTRUCTION SOIL AMENDMENT IS REQUIRED ON ALL AREAS NOT COVERED BY HARD SURFACE WHERE SOIL IS DISTURBED DURING CONSTRUCTION.
- SOIL AMENDMENT MUST PASS A 12 INCH MINIMUM PROBE TEST.
- IMPORT TOPSOIL, IF USED, MUST MEET THE REQUIREMENTS OF THE SEATTLE STORMWATER MANUAL, VOL. 1, SECTIONS 5.1.5.1 AND 5.1.5.3.

SYMBOL: (SA) AREA REQUIRING SOIL AMENDMENT (ND) NON-DISTURBED AREA (SOIL AMENDMENT NOT REQUIRED)

STOCKPILE AND EXPOSED SLOPE COVERING



SYMBOL: (SP)

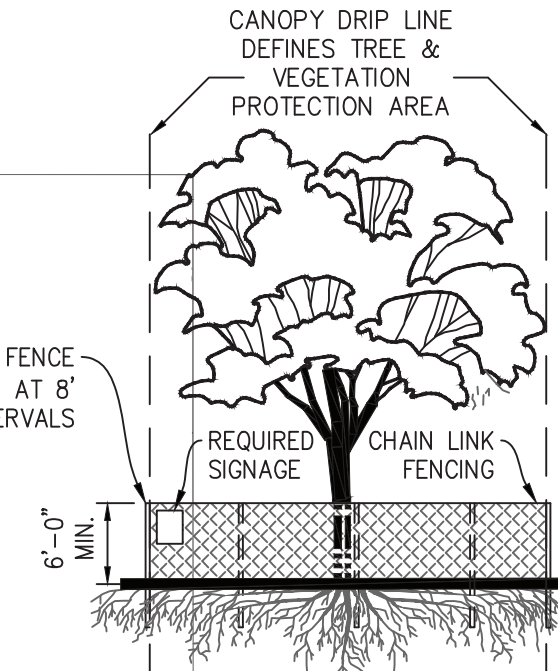
TREE & VEGETATION PROTECTION

TREE PROTECTION FENCING AND SIGN

- CHAIN LINK FENCE REQUIRED (NO ORANGE CONSTRUCTION FENCE OR PLYWOOD)
- MINIMUM 6' HIGH
- FENCE SHALL BE SUPPORTED BY RIGID POSTS DRIVEN INTO THE GROUND AT 8' MAXIMUM INTERVALS
- MUST BE INSTALLED PRIOR TO DEMOLITION OR GROUND DISTURBANCE
- KEPT IN PLACE FOR THE DURATION OF CONSTRUCTION
- NO DUMPING OF ANY MATERIALS IN THE PROTECTION AREA
- NO SOIL DISTURBANCE OR ACTIVITY ALLOWED WITHIN FENCED AREA: MATERIAL STORAGE/STOCKPILING, PARKING, EXCAVATION, DUMPING, OR WASHING
- MODIFICATIONS OF THESE REQUIREMENTS BY APPROVAL OF SDCI PLANNER ONLY
- IF ROOTS GREATER THAN 2 INCH FOUND OUTSIDE OF FENCING, PROTECT BY HAND EXCAVATION AND, IF NECESSARY, CUT CLEANLY AND KEEP MOIST
- USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS

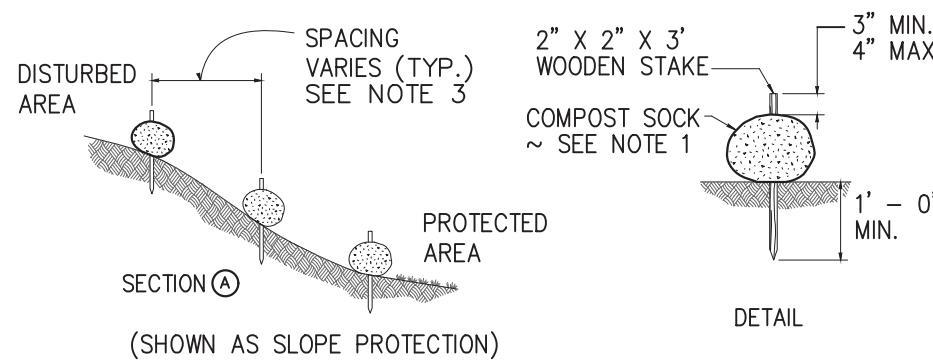
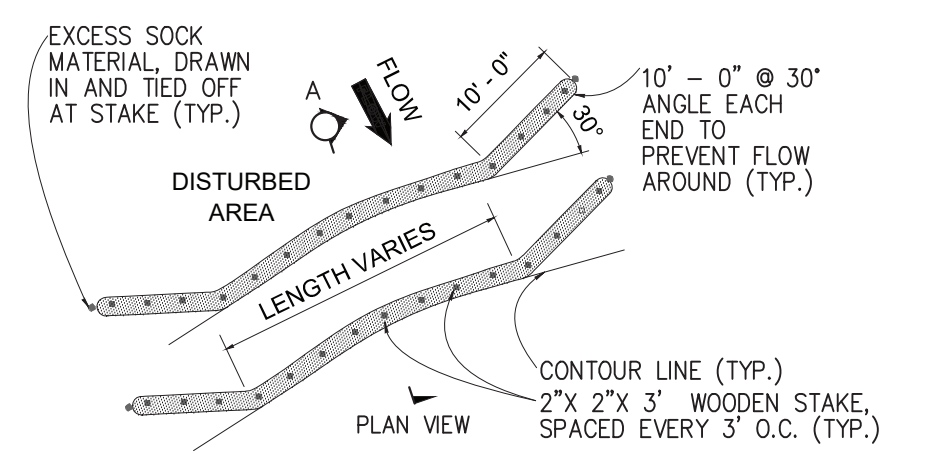
VEGETATION PROTECTION (DOES NOT APPLY TO TREES)

- ORANGE MESH OR SIMILAR OPEN MATERIAL
- PROTECT VEGETATION OUTSIDE CONSTRUCTION ZONE WITH FENCING AS SHOWN



SYMBOL: (MEG)

COMPOST SOCK



- COMPOST SOCK SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 9.14.4(9). COMPOST SOCK SHALL BE A MINIMUM OF 10" IN DIAMETER OR SIZED TO SUIT CONDITIONS AS SPECIFIED BY THE ENGINEER.
- ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.
- REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.
- MAY BE USED IN PLACE OF FILTER FENCE FOR PREMIER CONTROL.

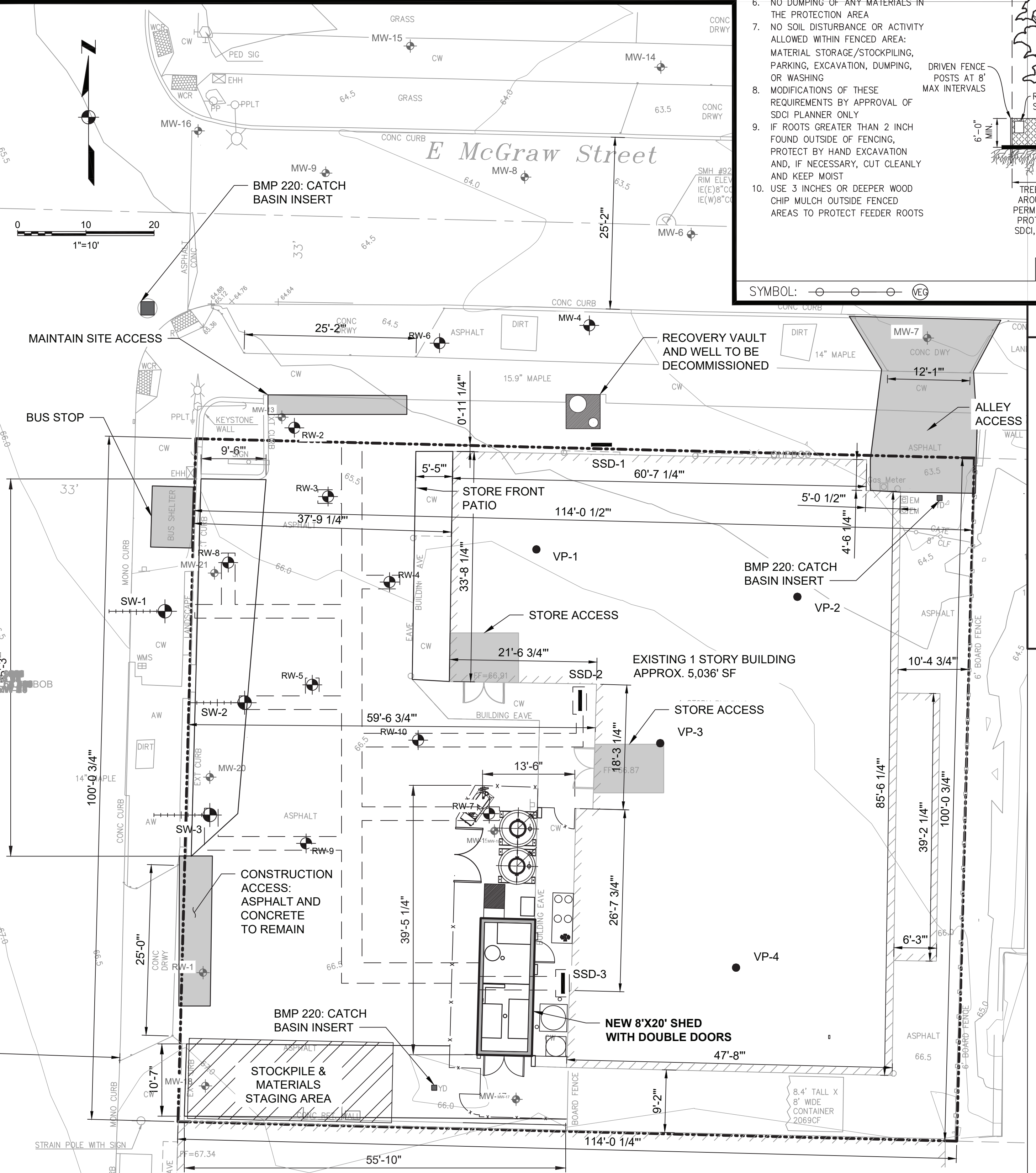
SYMBOL: (CS)

GENERAL SHEET NOTES

- STORMWATER FROM ROOF DRAINS DISCHARGE TO CURB WEEP HOLES THAT DRAIN TO STORMWATER MAIN. PARKING LOT CATCH BASIN DISCHARGES TO SANITARY SEWER MAIN.
- EXISTING DRIVEWAYS SHALL REMAIN PAVED. ALL TRUCKS ENTERING AND LEAVING THE SITE WILL REMAIN ON PAVED ROADS.
- TRENCH EXCAVATIONS SHALL BE BACKFILLED AS SOON AS POSSIBLE.
- ANY WATER ACCUMULATED IN TRENCHES WILL BE PUMPED INTO 55-GALLON DRUMS STORED ON SITE. WATER WILL THEN BE CHARACTERIZED FOR OFFSITE DISPOSAL AFTER CONSTRUCTION IS COMPLETED.
- TRENCH EXCAVATIONS WILL BE COVERED WITH PLASTIC SHEETING TO PREVENT CONTACT OF STORMWATER WITH SOIL UNTIL EXCAVATION HAS BEEN BACKFILLED.
- ANY SEDIMENT OR SOIL TRACKED ONTO THE SITE WILL BE SWEEPED UP WITHIN 30 MINUTES OF OCCURRENCE.
- ANY STOCKPILES USED WILL BE UNDERLAIN, AND COVERED, WITH PLASTIC SHEETING OF A SIZE SUBSTANTIALLY LARGER THAN THE PILE AND SECURED AS REQUIRED PRIOR TO LEAVING THE SITE ON A DAILY BASIS. STOCKPILE COVERS WILL BE SECURED AGAINST MOVEMENT BY WIND.

LEGEND

- WELL TO BE USED FOR EXTRACTION/INJECTION (NEW AND EXISTING, SEE NOTE 1 AND WELL TABLES ON SHEET C-02)
- EXISTING WELL NOT USED FOR EXTRACTION/INJECTION
- NEW SLANT WELL (SEE NOTE 1)
- SUB-SLAB DEPRESSURIZATION WELL
- APPROXIMATE EXTENT OF TRENCH
- CHAIN LINK FENCE
- VAPOR MONITORING PIN (SEE NOTE 2)
- SITE AND STORE ACCESS AREAS
- PROPERTY LINE
- STOCKPILE & MATERIALS STAGING AREA
- BMP C220: CATCH BASIN INSERT

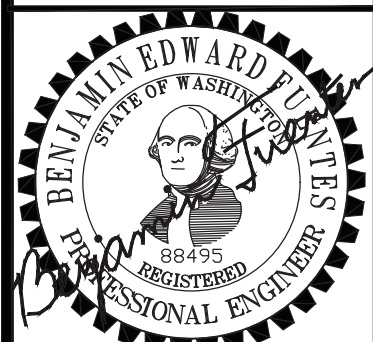


TEMPLATE VERSION:
2021-06-08

CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION AND INSPECTIONS



STANDARD CONSTRUCTION STORMWATER
CONTROL AND POST CONSTRUCTION SOIL
MANAGEMENT (CSC/SOIL) PLAN
APPLICANT PLAN SET



SDCI PERMIT NO.:
6996584-CN

ADDRESS:

SEATTLE, WA

DESIGNED BY: CMW

DRAWN BY: CMW

CHECKED BY: RPH

DATE: 01/17/2024

STANDARD
CSC/SOIL
PLAN

SHEET SDW - 01

THE CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION &
INSPECTIONS
APPROVED
Subject to Errors and Omissions
05/17/2024

DRAINAGE & WASTEWATER CONTROL PLAN REQUIREMENTS

THIS PLAN SHALL SHOW A SITE PLAN INCLUDING ALL DRAINAGE FEATURES (HARD SURFACES, BMPS, DRAIN LINES, CATCH BASINS, INLETS, PUMPS, ETC.) AND ALL SIDE SEWER FEATURES (SERVICE DRAIN SIDE SEWERS AND SANITARY SIDE SEWERS AND THEIR APPROVED POINTS OF CONNECTION).

SEE VOLUME 1, CHAPTER 8 OF THE 2021 SEATTLE STORMWATER MANUAL FOR SITE AND DRAINAGE ELEMENTS REQUIRED ON THIS PLAN. THE STORMWATER MANUAL AND CAD TEMPLATES FOR THIS PLAN ARE AVAILABLE AT THE FOLLOWING LINK: [http://www.seattle.gov/sdci/codes/codes-we-enforce-\(a-z\)/stormwater-code](http://www.seattle.gov/sdci/codes/codes-we-enforce-(a-z)/stormwater-code)

SITE AND DRAINAGE CONTROL SUMMARY SHEET

COMPLETE THE ELECTRONIC ON-SITE STORMWATER MANAGEMENT CALCULATOR AND INSERT THE SITE AND DRAINAGE CONTROL SUMMARY SHEET BELOW. THE ELECTRONIC DOCUMENT IS AVAILABLE ON THE DPD STORMWATER CODE WEBSITE: [http://www.seattle.gov/sdci/codes/codes-we-enforce-\(a-z\)/stormwater-code](http://www.seattle.gov/sdci/codes/codes-we-enforce-(a-z)/stormwater-code)

SEE THE INSTRUCTIONS TAB IN THE EXCEL FILE FOR GUIDANCE TO SELECT AND DOCUMENT THE ON-SITE STORMWATER MANAGEMENT BMPS IF REQUIRED.

On-site Stormwater Management Calculator
Site and Drainage Control Summary

Version 01-04-2023

To use the On-Site List Calculator you must select "Enable Content" when the Security Warning appears.

Project Information

Site Address

2350 24th Ave E, Seattle, WA 98112

SDCI Project Number

6996584-CN

Primary Contact

Dale Myers

SDOT Project Number

SUUMPM0000620

Project Type

Remediation

Primary Contact E-mail or Phone

DAMY461@ECY.WA.GOV

Is this project "Closely Related" to other SDCI construction permits/projects?

☒ Yes ☐ No

"Closely Related" SDCI Construction Permit Numbers

Is this project associated with a Short Plat or Subdivision?

☐ Yes ☒ No

SDCI MUP Number

Was the project lot created or altered in site after Jan 1, 2016?

☒ No

Total Site Area

11,400 sf

Total Closely Related and/or Short Plat/Subdivision Site Area

Total New plus Replaced Hard Surface Area (NPRHS)

635 sf

Total Closely Related and/or Short Plat/Subdivision NPRHS

Total New and/or Replaced Lawn/Landscaping

0 sf

Total Closely Related and/or Short Plat/Subdivision NPRHS

Undisturbed and Protected Site Area

0 sf

Total Existing Hard Surface Area (Prior to Project)

11,400 sf

Site Information

Note: Reference the Preliminary Assessment Report (PAR) to complete this section.

Approved Point of Stormwater Discharge

Curb Weep Hole

Drainage Basin

Designated Receiving Water

Is the downstream drainage system considered Capacity Constrained by SPU?

No

Approved Point of Wastewater Discharge

Public Sanitary Sewer Main

Approved Point of Sub-Surface Discharge

On Site Infiltration

Required Flow Control Standard

☐ Pre-Developed Pasture ☐ Pre-Developed Forest ☐ Peak Control ☐ Wetland Protection ☐ Existing Conditions ☒ None

Project will permanently discharge groundwater?

☒ No

Required Water Quality Treatment Standard

☒ Oil Control ☐ Enhanced ☐ Basic ☐ None

Total Pollution Generating Hard Surface Area

0 sf

w/ Closely Related/Short Plat/Subdiv.

Total Pollution Generating Pervious Surface Area

0 sf

w/ Closely Related/Short Plat/Subdiv.

Environmentally Critical Areas

☒ No

☐ Steep Slope ☐ Potential Slide ☐ Riparian Corridor ☐ Wetland ☐ Liquefaction ☐ Flood Prone ☐ Landfill ☐ Known Landslide ☐ Fish / Wildlife ☐ Peat / Groundwater Management ☐ Shoreline Habitat

Is there soil and/or groundwater contamination on this site?

☒ Yes ☐ No

Source Control is required

☒ Yes ☐ No

Infiltration Information

Is infiltration investigation required?

Is infiltration on the site feasible?

Site Measured Infiltration Rate

x Infiltration Rate Correction Factor

=

0

Site Design Inf Rate

On-site Stormwater Management (select List Approach or Performance Standard)

☒ On-site List Approach (Pre-sized) Calculator - Complete the Surface tabs and BMP Sizing tabs (Most commonly used) ☐ OSM not required ☐ On-site Performance Standard - Stormwater modeling by Civil Engineer (Also for No Off-site Point of Discharge)

Number of roof areas

0

Number of other surface areas

0

Enter number of surface areas and hit Enter

Surface	Surfaces Description	On-site BMP	Contrib. Area (sf)	Facility Size (sf)	Facility Configuration
Total New/Replaced Roof Area	0		Total Roof Area Managed	0	
Total New/Replaced Other Surface Area	0		Total Other Surface Managed	0	
Total Area Managed	0		Total Volume Managed On Site	0 gal	
Estimated compost required for soil amendment	0		Volume of compost will be verified by the Inspector.		

SIDE SEWER AND DRAINAGE PERMIT NOTES

- SIDE SEWERS AND DRAINAGE FACILITIES SHALL BE CONSTRUCTED PER THE "REQUIREMENTS FOR DESIGN OF SIDE SEWERS (DRAINAGE & WASTEWATER)" DIRECTORS' RULE DPD 4-2011/2011-004 AND PER THE "2021 SEATTLE STORMWATER MANUAL" DIRECTORS' RULE SDCI 10-2021/SPU DWW-200.
- A SEPARATE DRAINAGE AND SIDE SEWER PERMIT IS REQUIRED FOR ALL ONSITE DRAINAGE ELEMENTS AND SIDE SEWERS/SERVICE DRAINS. APPROVAL OF THIS PLAN IS REQUIRED PRIOR TO OBTAINING A DRAINAGE AND SIDE SEWER PERMIT.
- RE-USE OF EXISTING SIDE SEWERS WHEN THERE WILL BE AN INCREASE IN LIVING UNITS REQUIRES THE EVALUATION AND CERTIFICATION (PE EVAL/CERT) OF THE EXISTING SIDE SEWER BY A PROFESSIONAL ENGINEER PRIOR TO FINALIZING THE SIDE SEWER AND DRAINAGE PERMIT. IN MOST CASES, THE SIDE SEWER MUST BE LINED ALL THE WAY TO THE MAIN. SEE DIRECTORS RULE 4-2011V.M AND SMC 21.16.240.
- IN ORDER TO ADD UNITS TO AN EXISTING SIDE SEWER, A CERTIFIED LETTER STATING THE INTENT TO ADD UNITS TO THE SHARED SIDE SEWER MUST BE SENT TO ALL PROPERTY OWNERS OF PARCELS SERVED BY THE SHARED SIDE SEWER AT LEAST 30 DAYS PRIOR TO APPLYING FOR THE SIDE SEWER PERMIT. SMC 21.16.240.C. A RECEIPT OF CERTIFIED MAILING AND THE CERTIFICATION/ATTESTATION OF MAILING NOTIFICATION MUST BE SUBMITTED TO SDCI PRIOR TO PERMIT ISSUANCE.
- DEVIATIONS FROM THE APPROVED DRAINAGE AND WASTEWATER CONTROL PLAN REQUIRE A FORMAL POST-SUBMITTAL REVISION FOR PLAN REVIEW AND APPROVAL. POST-SUBMITTAL REVISIONS MUST BE SUBMITTED ELECTRONICALLY THROUGH THE SDCI PROJECT PORTAL.

DETAILS: SELECT THE APPLICABLE DETAILS AND SHOW THEM HERE. PROVIDE AN ADDITIONAL SHEET IF NEEDED.

NOTES

- TREATED WATER DISCHARGE TO EXISTING STORM DRAIN CONNECTED TO SANITARY SEWER IS PERMITTED UNDER KING COUNTY INDUSTRIAL WASTE (KCIW) WASTEWATER DISCHARGE AUTHORIZATION NO. 4614-01.

LEGEND

- WELL TO BE USED FOR EXTRACTION/INJECTION (NEW AND EXISTING. SEE NOTE 1 AND WELL TABLES ON SHEET C-02)
- EXISTING WELL NOT USED FOR EXTRACTION/INJECTION
- NEW SLANT WELL (SEE NOTE 1)
- SUB-SLAB DEPRESSURIZATION WELL
- CHAIN LINK FENCE
- VAPOR MONITORING PIN
- PROPERTY LINE

AS-BUILT MEASUREMENTS / NOTES

THIS SECTION IS TO BE COMPLETED AFTER THE DRAINAGE, WASTEWATER, AND SIDE SEWER FEATURES HAVE BEEN INSTALLED. FOR INSTRUCTIONS TO PREPARE THE AS-BUILT PLAN, SEE SDCI TIP #504.

SDCI SIDE SEWER AND DRAINAGE PERMIT #

MEASUREMENTS IN THE RIGHT-OF-WAY

- DISTANCE FROM CENTERLINE OF DOWSTREAM MH TO CENTERLINE OF NEW SERVICE CONNECTION
- SIDE SEWER INTERSECTION WITH PROPERTY LINE - DEPTH
- SIDE SEWER INTERSECTION WITH PROPERTY LINE - DISTANCE

PIPE LINERS

- PIPE LINER INSTALLED ON PRIVATE PROPERTY
- PIPE LINER INSTALLED IN THE RIGHT-OF-WAY

NOTES FOR PLAN VIEW

ABBREVIATIONS

- SSS SANITARY SIDE SEWER
- SD STORM SERVICE DRAIN/ DRAINAGE SIDE SEWER
- FD FOOTING DRAIN PUBLIC
- PSD STORM DRAIN MAINLINE
- PS PUBLIC COMBINED MAINLINE
- PSS PUBLIC SANITARY SEWER MAINLINE

TEMPLATE VERSION:
2021-06-18

CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION AND INSPECTIONS

DRAINAGE AND WASTEWATER CONTROL
(DWC) PLAN

APPLICANT PLAN SET

SDCI PERMIT NO.:
6996584-CN

ADDRESS:
2350 24TH AVE E
SEATTLE, WA

DESIGNED BY: CMW

DRAWN BY: CMW

CHECKED BY: BEF

DWC
PLAN

SHEET SDW - 02

THE CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION &
INSPECTIONS
APPROVED
Subject to Errors and Omissions
05/17/2024

CONTROL PANEL

1. PANEL LISTING	508&698a
2. DEADFRONT	YES
3. VOLTAGE	120/208V THREE PHASE WYE
4. PHASE	3
5. AUTO RESTART	YES
6. BREAKERS IN PANEL	YES
7. HOUR METERS	YES
8. AMP METERS	NO
9. HOA AND RESET BUTTON	YES
10. OXIDIZER INTERLOCK	YES
11. PLC	SIEMENS
12. 7/24 TIMER	SIEMENS
13. SURGE PROTECTOR	YES
14. PHASE MONITOR	NO
15. PANEL TRANSFORMER	NO
16 FAN IN PANEL	NO
17. TELEMTRY	SIEMENS
18. TELEMTRY SERVICE	PRM
19. BATTERY BACKUP	YES

NOTES:

1. 1" MS TANK DRAIN LOCATED BELOW MANUAL DILUTION
2. PNEUMATIC ACTUATORS ON DPE MANIFOLD VALVES WILL BE CONNECTED TO COMPRESSOR LOCATED IN NON-HAZARDOUS SIDE.
3. WALLS & CEILING SHALL HAVE R-13 INSULATION AND WOOD FRAMING AND WILL ADD 4" THICKNESS ON ALL SIDES. FLOOR TO HAVE R10 INSULATION.
4. HAZ. LOC. LIGHT IN MPE ROOM. STD LIGHT IN BIOREMEDIATION ROOM.
5. SOUND HOODS TO BE LOCATED OVER ALL VENTS IN MPE ROOM ONLY, INCLUDING LRP HX VENT.
6. LIQUID RING PUMP WILL SIT ON 3" RUBBER MAT.
7. 4-1/2" BERM WILL BE PROVIDED AROUND PERIMETER OF BOTH ROOMS. FLOOR WILL BE COATED AND SEALED TO ACT AS SECONDARY CONTAINMENT.
8. ALL PRESSURE/VACUUM GAUGES SHALL INCLUDE BRASS ISOLATION VALVES
9. ANY PLUMBING ON FLOOR IN WALKWAY AREAS REQUIRES A STEPOVER.
10. MINIMIZE PROTRUSION OUTSIDE ON DPE MANIFOLD PENETRATIONS

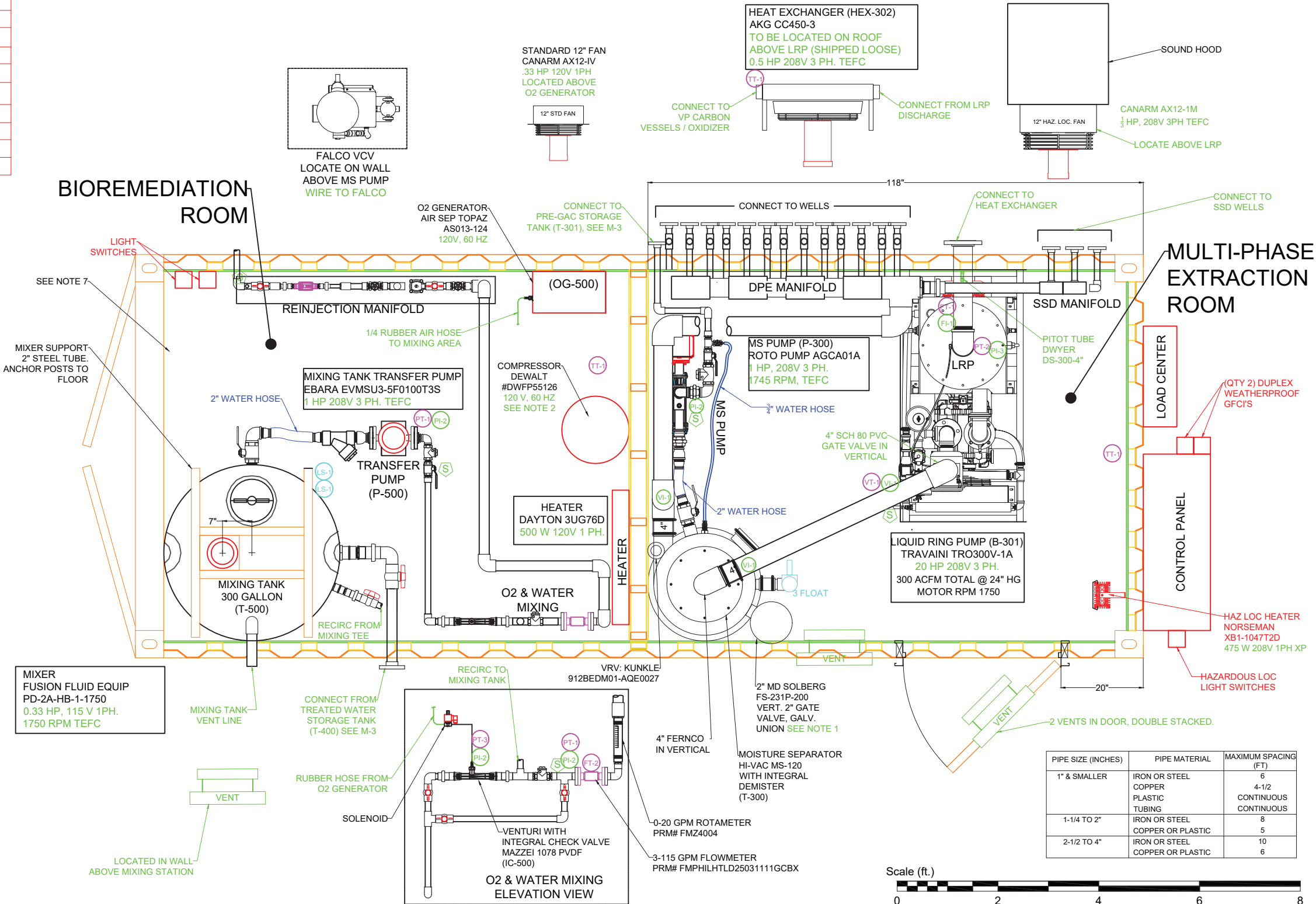
LOOSE EQUIPMENT:

1. POST LRP HEAT EXCHANGER (AFTERCOOLER) TO BE PROVIDED LOOSE AND FIELD PIPED BY OTHERS.
2. FALCO 300 CATALYTIC OXIDIZER. SUPPLIED WITH SOLBERG HDL-PSG344/2-300 COALESCER TO BE INSTALLED BEFORE FALCO INLET. VCV INSTALLED IN LRP ROOM TO BE REMOVED AND RETURNED WITH FALCO AT THE END OF RENTAL.
3. VAPOR PHASE CARBON VESSELS: (2) VP-2000. EACH FILLED WITH 2000 LBS OF REACTIVATED CARBON. EACH ALSO INCLUDES 1" SS DRAINS, (3)PRESSURE INDICATORS (PI-3) AND 4" ALUMINUM CAMLOCK CONNECTIONS.
3. PRE-LGAC WATER STORAGE TANK SKID (M-3).
4. TREATED WATER SKID (M-3).
5. LGAC SKID(M-4).
6. QTY 4 ANCHOR POSTS: PRM# TRAILSEABOXANCHORX
7. DWYER DS-300 PITOT TUBE AND DIFF. PRES GAUGE (FI-1) FOR STARTUP TESTING OF DPE WELLS
8. SPARE SS STRAINER BASKET SIZED FOR #2 TRADE SIZE BAG
9. QTY 25 OF 25 MICRON BAG FILTERS
10. QTY 25 OF 50 MICRON BAG FILTERS

PRM PARTS LIST

PRM PARTS	DESCRIPTION	PRM #	QTY
PI-1	0-50 PSI LF GAUGE	PGCNBTY630251850PSI	0
PI-2	0-100 PSI PRES GAUGE	PGCNBTY6302514100PSI	3
PI-3	0-10PSI PRESS GAUGE	PGCNBTY630251310PSI	4
PI-4	-15 HG- 100 PSI LF GAUGE	PGCNBTY6301515HG100PSI	1
VI-1	0-30" HG LF GAUGE	PGCNBTY630252230HG	3
TT-1	0-392 TEMP TRANSMITTER	CONTD148WD	3
PT-1	0-100 PSI PRES TRANSMITTER	PT100PSICABLE025MNPTX	2
PT-2	0-100"WC PRES TRANSMITTER	PGTLFMI100WCX	1
PT-3	-15 TO 30 PSIG PRES TRANS.	PT15V165PSI24VDCX	1
VT-1	0-30" VACUUM TRANSMITTER	PT100030HG025MNPTX	1
FT-1	0-5"WC DPT	PGTLMIO05WCX	1
FT-2	3-115 GPM FLOW TRANS.	FMPHILHTLD2503111GCBX	1
FI-1	0-5"WC DIFF PRES. GAUGE	DPGJH0005X	1
LS-1	FLOAT LEVEL SWITCH	FLSLSCF07X7X	2

8 x 20 SEABOX GENERAL
ARRANGEMENT DETAIL
ENTIRE SYSTEM IS 3RD PARTY CERTIFIED



PIPE SIZE (INCHES)	PIPE MATERIAL	MAXIMUM SPACING (FT)
1" & SMALLER	IRON OR STEEL COPPER PLASTIC TUBING	6 4-1/2 CONTINUOUS CONTINUOUS
1-1/4 TO 2"	IRON OR STEEL COPPER OR PLASTIC	8 5
2-1/2 TO 4"	IRON OR STEEL COPPER OR PLASTIC	10 6



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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC
PO BOX 1097
MUKILTEO, WA 98275

PROJECT TITLE:
MULTI PHASE VACUUM EXTRACTION SYSTEM
CIRCLE K 1461 ENVIRONMENTAL CLEANUP
2350 24TH AVE E
SEATTLE, KING COUNTY, WASHINGTON 98112

SHEET TITLE:
SEABOX GENERAL
ARRANGEMENT

QUOTE #:
PRM-9844
DATE:
12/1/23

PROJECT NUMBER:
WO-8135
DRAWN BY:
MTW

NO.	REVISION	DATE
1	AS-BUILTS	04/08/24
2	CLIENT LABELS	06/11/24

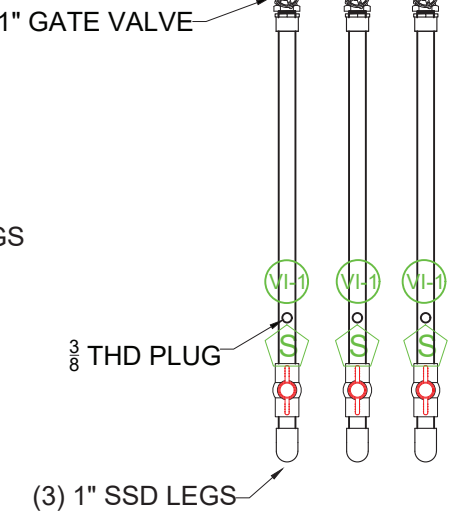
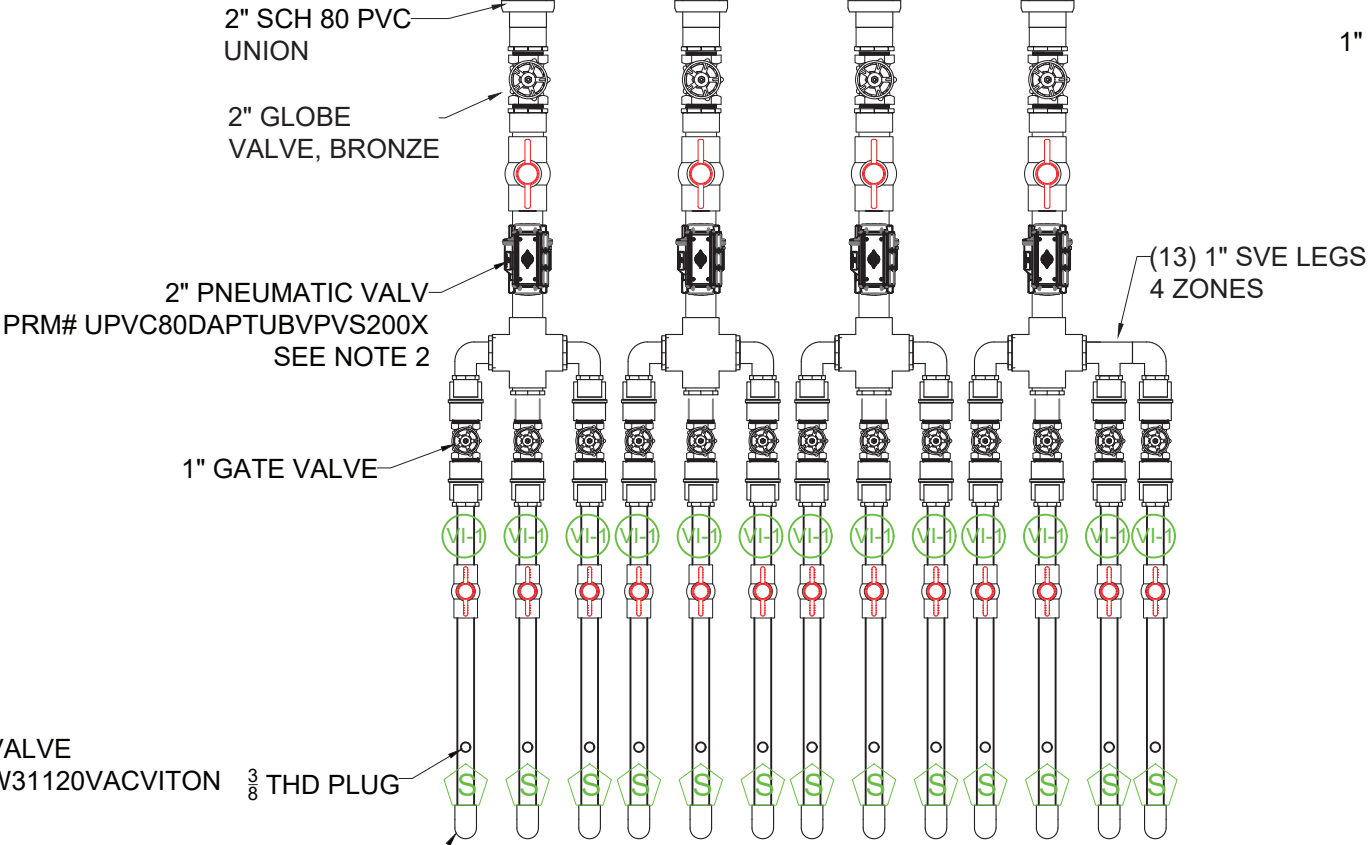
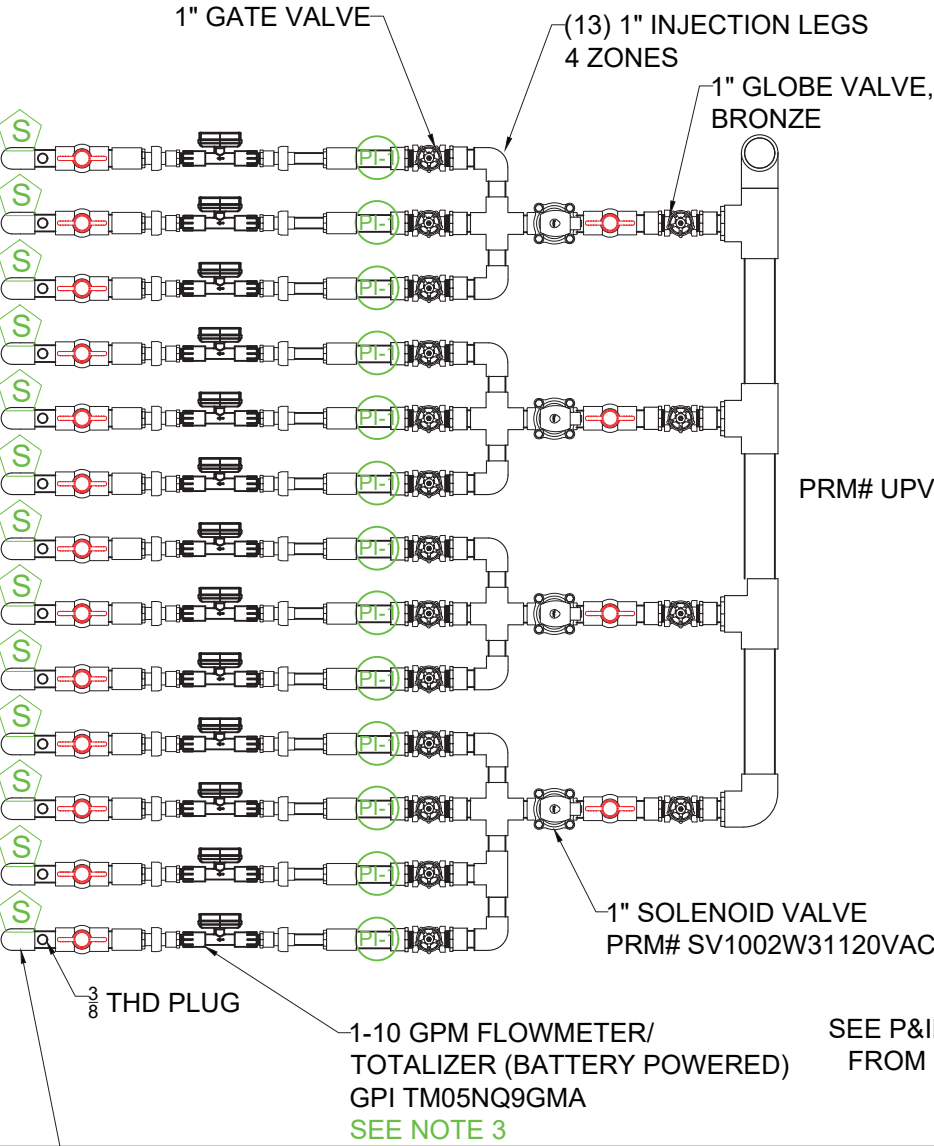
DRAWING NUMBER:
M-1

REINJECTION MANIFOLD
ELEVATION DETAIL

DPE MANIFOLD
ELEVATION DETAIL

SSD MANIFOLD
ELEVATION DETAIL

CEILING



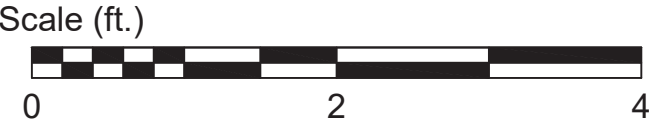
SEE P&ID FOR CONNECTIONS
FROM INJECTION MANIFOLD

FLOOR

PRM PARTS LIST

PRM PARTS	DESCRIPTION	PRM #	QTY
VI-1	0-30" HG LF GAUGE	PGCNBTY630252230HG	16
PI-1	0-30 PSI GAUGE	PGCNBTY630251230PSI	13

- NOTES:
1. DPE MANIFOLD: ONE OR TWO ZONES MAY BE LOCATED ON PARTITION WALL IF EXTRA SPACE IS REQUIRED
 2. COMPRESSED AIR REQUIRED FOR ACTUATION OF 2" PNEUMATIC VALVES ON DPE MANIFOLD TO BE PROVIDED BY COMPRESSOR LOCATED IN INJECTION SIDE OF SEABOX.
 3. ALLOW 10 PIPE DIAMETERS STRAIGHT PIPE UPSTREAM OF FLOWMETERS AND 5 PIPE DIAMETERS DOWNSTREAM.



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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC
PO BOX 1097
MUKILTEO, WA 98275

PROJECT TITLE:
MULTI PHASE VACUUM EXTRACTION SYSTEM
CIRCLE K 1461 ENVIRONMENTAL CLEANUP
2350 24TH AVE E
SEATTLE, KING COUNTY, WASHINGTON 98112

SHEET TITLE:
REINJECTION / DPE / SSD
MANIFOLD ELEVATION DETAILS

QUOTE #:
PRM-9844
DATE:
12/1/23

PROJECT NUMBER:
WO-8135
DRAWN BY:
MTW

NO.	REVISION	DATE
1	AS-BUILTS	04/08/24
2	CLIENT LABELS	06/11/24

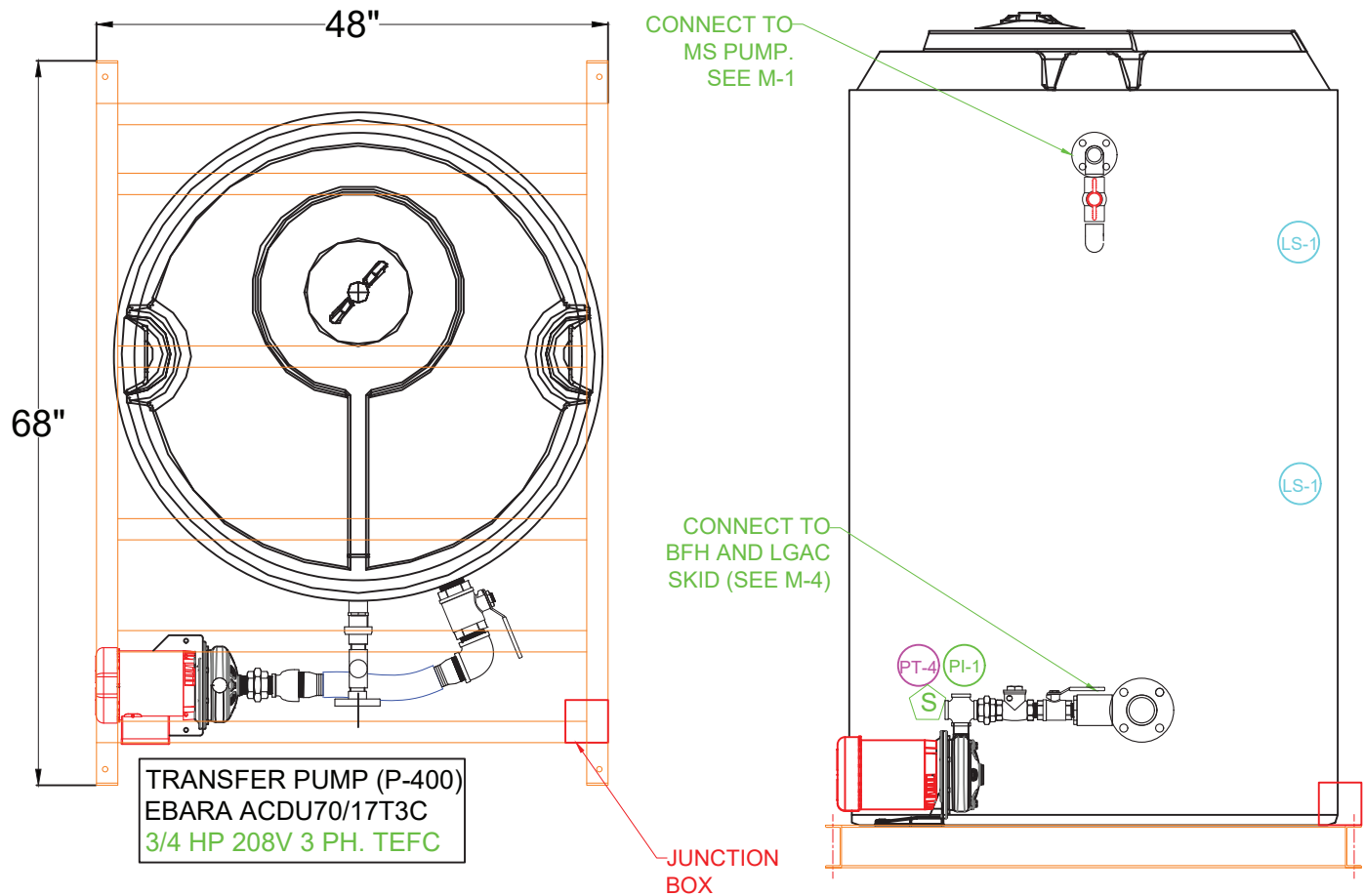
DRAWING NUMBER:
M-2

PRE-GAC WATER
STORAGE TANK SKID (T-301)

500 GALLON TANK

PLAN VIEW

ELEVATION VIEW



PRM PARTS LIST

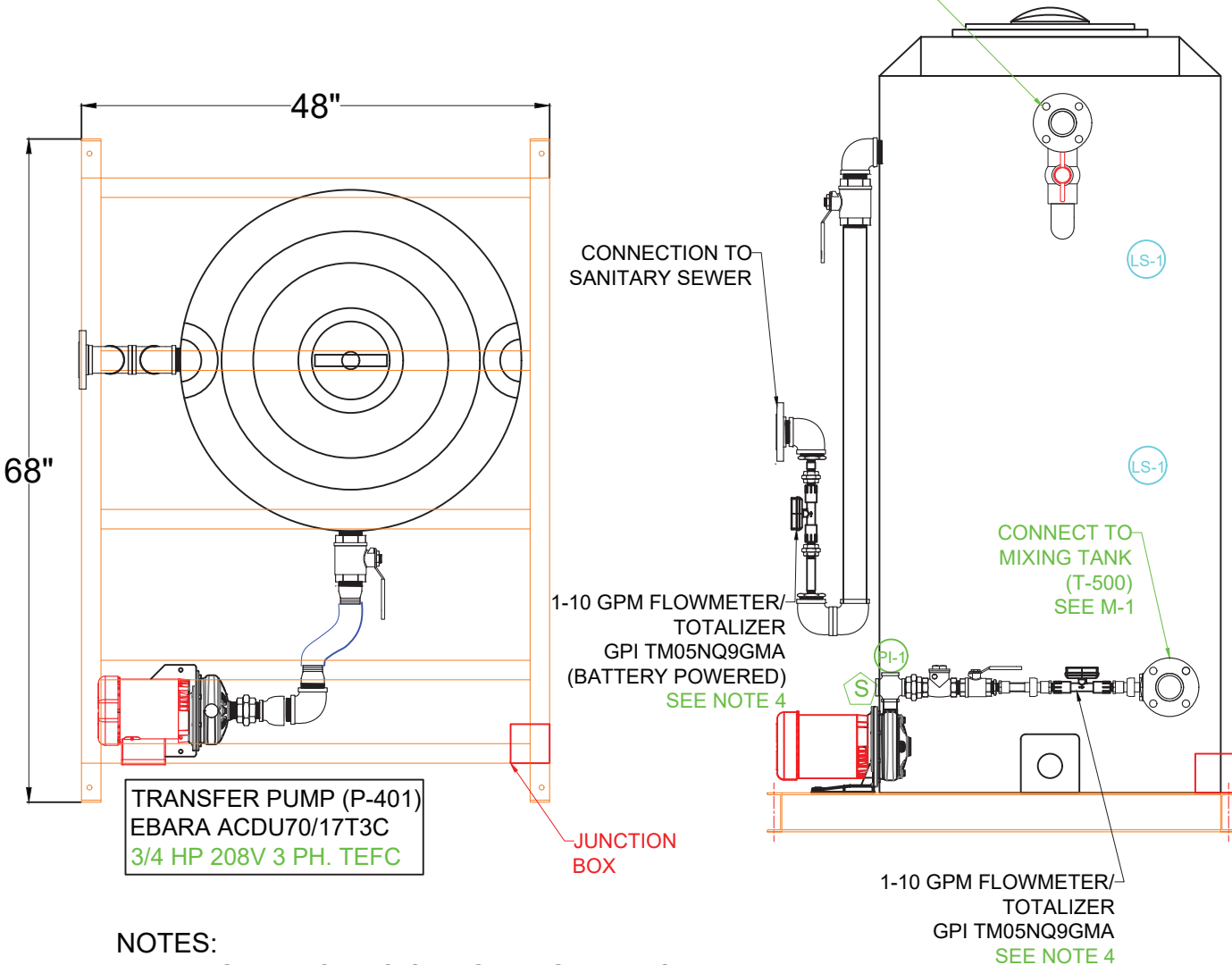
PRM PARTS	DESCRIPTION	PRM #	QTY
PI-1	0-50 PSI LF GAUGE	PGCNBTY630251850PSI	2
PT-4	0-50 PSI TRANSMITTER	PT50PPSI24VDCX	1
LS-1	FLOAT LEVEL SWITCH	FLSLSCF07X7X	4

TREATED WATER
STORAGE TANK SKID (T-400)

300 GALLON TANK
CONNECT FROM
LGAC SKID. SEE M-4
CHECK VALVE IN
HORIZONTAL (NOT SHOWN)

PLAN VIEW

ELEVATION VIEW



- NOTES:
- TANKS ATTACH TO SKIDS VIA GUY KITS
 - PIPE SUPPORTS TO BE PROVIDED AS NEEDED
 - ALL ELECTRICAL PRE-WIRED TO JUNCTION BOX
 - ALLOW 10 PIPE DIAMETERS STRAIGHT PIPE UPSTREAM OF FLOWMETERS AND 5 PIPE DIAMETERS DOWNSTREAM.

SKID CONSTRUCTION NOTES

- SKID PAINT DETAILS:
 - PRIMER: EPOXY PRIMER (HBE-400)
 - PAINT: BATTLESHIP GREY ACRYLIC URETHANE FINISH (AUE-100)
- MATERIAL: 4X2 CS CHANNEL

Scale (ft.)



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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC
PO BOX 1097
MUKILTEO, WA 98275

PROJECT TITLE:
MULTI PHASE VACUUM EXTRACTION SYSTEM
CIRCLE K 1461 ENVIRONMENTAL CLEANUP
2350 24TH AVE E
SEATTLE, KING COUNTY, WASHINGTON 98112

SHEET TITLE:
STORAGE TANK SKIDS

QUOTE #:
PRM-9844
DATE:
12/1/23

PROJECT NUMBER:
WO-8135
DRAWN BY:
MTW

NO.	REVISION	DATE
1	AS-BUILTS	04/08/24
2	CLIENT LABELS	06/11/24

DRAWING NUMBER:
M-3

CONNECT TO TREATED WATER
STORAGE TANK (T-400)
SEE M-3

LGAC TREATMENT SKID

(2X)1-10 GPM FLOWMETER/
TOTALIZER
GPI TM05NQ9GMA
SEE NOTE 4

1" WATER HOSE

2-20 GPM FLOWMETER/TOTALIZER
GPI TM07NQ9GMA
SEE NOTE 4

SEE NOTE 2

VENT

2" SCH 80 PVC UNION

BAG FILTER (BF-400)
PRM# BFHBL2DX

1" DRAIN (NOT SHOWN)

2" SCH 80 PVC
SLIDING GATE VALVE

JUNCTION
BOX

LIQUID PHASE
CARBON VESSELS

CONNECT TO PRE-GAC WATER
STORAGE TANK (T-301)
SEE M-3

36"

88"

2" SCH 80 PVC UNION

PRM PARTS LIST

PRM PARTS	DESCRIPTION	PRM #	QTY
PI-1	0-50 PSI LF GAUGE	PGCNBTY630251850PSI	5
PT-4	0-50 PSI TRANSMITTER	PT50PPSI24VDCX	1

NOTES:

1. PIPE SUPPORTS TO BE PROVIDED AS NEEDED
2. BAG FILTER INLET PLUMBING SHOWN ON RIGHT HAND SIDE FOR DRAWING CLARITY- SEE PLAN DETAIL.
3. ALL ELECTRICAL PRE-WIRED TO JUNCTION BOX.
- 4.ALLOW 10 PIPE DIAMETERS STRAIGHT PIPE UPSTREAM OF FLOWMETERS AND 5 PIPE DIAMETERS DOWNSTREAM.

SKID CONSTRUCTION NOTES

1. SKID PAINT DETAILS:
 - 1.1. PRIMER: EPOXY PRIMER (HBE-400)
 - 1.2. PAINT: BATTLESHIP GREY ACRYLIC URETHANE FINISH (AUE-100)
2. MATERIAL: 4X2 CS CHANNEL

Scale (ft.)



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MUKILTEO, WA 98275

PROJECT TITLE:
MULTI PHASE VACUUM EXTRACTION SYSTEM
CIRCLE K 1461 ENVIRONMENTAL CLEANUP
2350 24TH AVE E
SEATTLE, KING COUNTY, WASHINGTON 98112

SHEET TITLE:
LGAC TREATMENT SKID

QUOTE #:
PRM-9844

DATE:
12/1/23

PROJECT NUMBER:
WO-8135

DRAWN BY:
MTW

NO.	REVISION	DATE
1	AS-BUILTS	04/08/24
2	CLIENT LABELS	06/11/24

DRAWING NUMBER:
M-4

LINE IDENTIFICATION CODES

LINE NUMBERING

PROCESS PIPE

W-XXX-YY-ZZ

PIPE SCHEDULE IF APPLICABLE

PIPING MATERIAL

PROCESS LINE ABBREVIATION

LINE SIZE (INCHES)

PIPING MATERIAL IDENTIFICATION

ALALUMINUM

CPVCCHLORINATED POLYVINYL CHLORIDE

CSCARBON STEEL

COPCOPPER

CPPCORRUGATED PLASTIC PIPE

CIPCAST IRON PIPE

DIPDUCTILE IRON PIPE

FH FLEXIBLE HOSE

GAL GALVANIZED STEEL PIPE

NYLNYLON

PEPOLYETHYLENE PIPE

PPPOLYPROPYLENE PIPE

PVCPOLYVINYL PIPE

RUBRUBBER HOSE

SSSTAINLESS STEEL

TEFTEFLON TUBING

PROCESS LINE ABBREVIATIONS

AIRAIR, ATMOSPHERIC PRESSURE

BWBACKWASH

CACOMPRESSED AIR

CDCONDENSATE

CFCHEMICAL FEED

CGWCONTAMINATED GROUNDWATER

DDRAIN

EFFEFFLUENT

EXH EXHAUST

GWGROUNDWATER

LFG LANDFILL GAS

NPWNON-POTABLE WATER

PPRODUCT

PRPROCESS FLOW

PROPPROPANE

PWPOTABLE WATER

SSANITARY

SLSLUDGE

SPSAMPLE PORT

STSSTORM SEWER

TFTOTAL FLUIDS

VVENT

VAPVAPOR

LINE CODING

PROCESS FLOW

PNEUMATIC SIGNAL

WIRELESS SIGNAL

ELECTRICAL SIGNALS

4-20mA / LOW VOLTAGE

LINE VOLTAGE

IS

VALVE AND PIPING SYMBOLS

GLOBE VALVE

GATE VALVE

BUTTERFLY VALVE

CHECK VALVE

PLUG VALVE

3-WAY VALVE

ANGLE VALVE

RELIEF VALVE/VACUUM BREAKER

BALL VALVE

GLOBE VALVE

SELF-CONTAINING PRESSURE REGULATING VALVE

NEEDLE VALVE

BACKFLOW PREVENTER

NORMALLY OPEN

NORMALLY CLOSED

FLEXIBLE HOSE

FLEXIBLE COUPLING

MOTOR DRIVEN

BASKET TYPE STRAINER

Y-TYPE STRAINER

DUPLEX STRAINER

SLEEVE COUPLING (SC)

FLOOR DRAIN

EQUIPMENT DRAIN

CLEANOUT (CO)

REMOVABLE PLUG

REMOVABLE CAP

EXHAUST TO ATMOSPHERE (INSIDE)

EXHAUST TO ATMOSPHERE (OUTSIDE)

REDUCER

UNION

QUICK DISCONNECT COUPLING

BLIND FLANGE

FLANGE

DAMPER

TEST PORT WITH STOP COCK VALVE

VALVE OPERATOR SYMBOLS

SOLENOID

MOTOR, ELECTRIC

PNEUMATIC

DIAPHRAGM WITH POSITIONER

HANDWHEEL OR LEVER

CHAINWHEEL

PRIMARY ELEMENT SYMBOLS - FLOW

ORIFICE PLATE

PITOT TUBE

THERMAL MASS FLOW METER

ROTOMETER

FLUME

WEIR

TURBINE OR PROPELLOR TYPE METER

MAGNETIC FLOW METER

TOTALING FLOW METER

EQUIPMENT SYMBOLS

PUMP

BLOWER

PNEUMATIC DIAPHRAGM PUMP

AIR COMPRESSOR

LIQUID RING VACUUM PUMP

POSITIVE DISPLACEMENT PUMP

SCREW COMPRESSOR

INSTRUMENT IDENTIFICATION

FIT

100A

FIT-100A

SUFFIX (NOT NORMALLY USED)

LOOP NUMBER

SUCCEEDING LETTERS

FIRST LETTER

FUNCTIONAL ABBREVIATIONS

DO

FC

FI

FL

FO

HOA

I/I

I/P

LEL

LR

DISSOLVED OXYGEN

FAIL CLOSED

FAIL INTERMINATE

FAIL LOCKED

FAIL OPEN

HAND-OFF-AUTOMATIC

CURRENT-TO-CURRENT

CURRENT-TO-PNEUMATIC

LOWER EXPLOSIVE LIMIT

LOCAL-REMOTE

OC

OO

ORP

OSC

SS

>

<

OPEN-CLOSE

ON-OFF (MAINTAINED)

OXIDATION REDUCTION POTENTIAL

OPEN-STOP-CLOSE (MOMENTARY)

START-STOP (MOMENTARY)

HIGH SELECT

LOW SELECT

S

SAMPLE PORT

GENERAL INSTRUMENT SYMBOLS

LOCALLY MOUNTED

FRONT-OF PANEL MOUNTED

BACK-OF-PANEL MOUNTED

INTERLOCK

PURGE

PLC FUNCTION BLOCK

INSTRUMENT IDENTIFICATION TABLE

FIRST LETTER			SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER FLAME				
C	CONDUCTIVITY			CONTROL	CLOSE
D	DENSITY (SP, GR)	DIFFERENTIAL		DRIVE	
E	VOLTAGE		PRIMARY ELEMENT		
F	FLOW RATE	RATIO			
G	GAUGING (DIMENSIONAL)		GLASS		
H	HAND (MANUAL)				HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME OR SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOISTURE OR HUMIDITY				MIDDLE
N					
O			ORIFICE		OPEN
P	PRESSURE		POINT (TEST)		
Q	QUANT. OR EVENT	INTEGRATE			
R	RADIOACTIVITY		RECORD OR PRINT		
S	SPEED OR FREQ.	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	ULTRAVIOLET		MULTIFUNCTION		
V	VACUUM	VISCOSITY		VALVE OR DAMPER	
W	WEIGHT OR FORCE		WELL		
X	THERMOCOUPLE		UNCLASSIFIED		
Y	VIBRATION			RELAY OR COMPUTE	
Z	POSITION			DRIVE, ACTUATE	

PRM

Filtration

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CLIENT:

GLACIER ENVIRONMENTAL SERVICES, INC

PO BOX 1097

MUKILTEO, WA 98275

PROJECT TITLE:

MULTI PHASE VACUUM EXTRACTION SYSTEM

CIRCLE K 1461 ENVIRONMENTAL CLEANUP

2350 24TH AVE E

SEATTLE, KING COUNTY, WASHINGTON 98112

SHEET TITLE:

PROCESS & INSTRUMENTATION

DIAGRAM LEGEND

QUOTE #:

PRM-9844

DATE:

12/1/23

PROJECT NUMBER:

WO-8135

DRAWN BY:

MTW

NO.

1

AS-BUILTS

NO.

2

CLIENT LABELS

DATE

04/08/24

DATE

06/11/24

DRAWING NUMBER:

P&ID-1

PLC

ENCLOSURE EXTENTS

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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC
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MUKILTEO, WA 98275

PROJECT TITLE:
MULTI PHASE VACUUM EXTRACTION SYSTEM
CIRCLE K 1461 ENVIRONMENTAL CLEANUP
2350 24TH AVE E
SEATTLE, KING COUNTY, WASHINGTON 98112

SHEET TITLE:
PROCESS & INSTRUMENTATION
INLET MANIFOLDS, MS TANK, & LRP

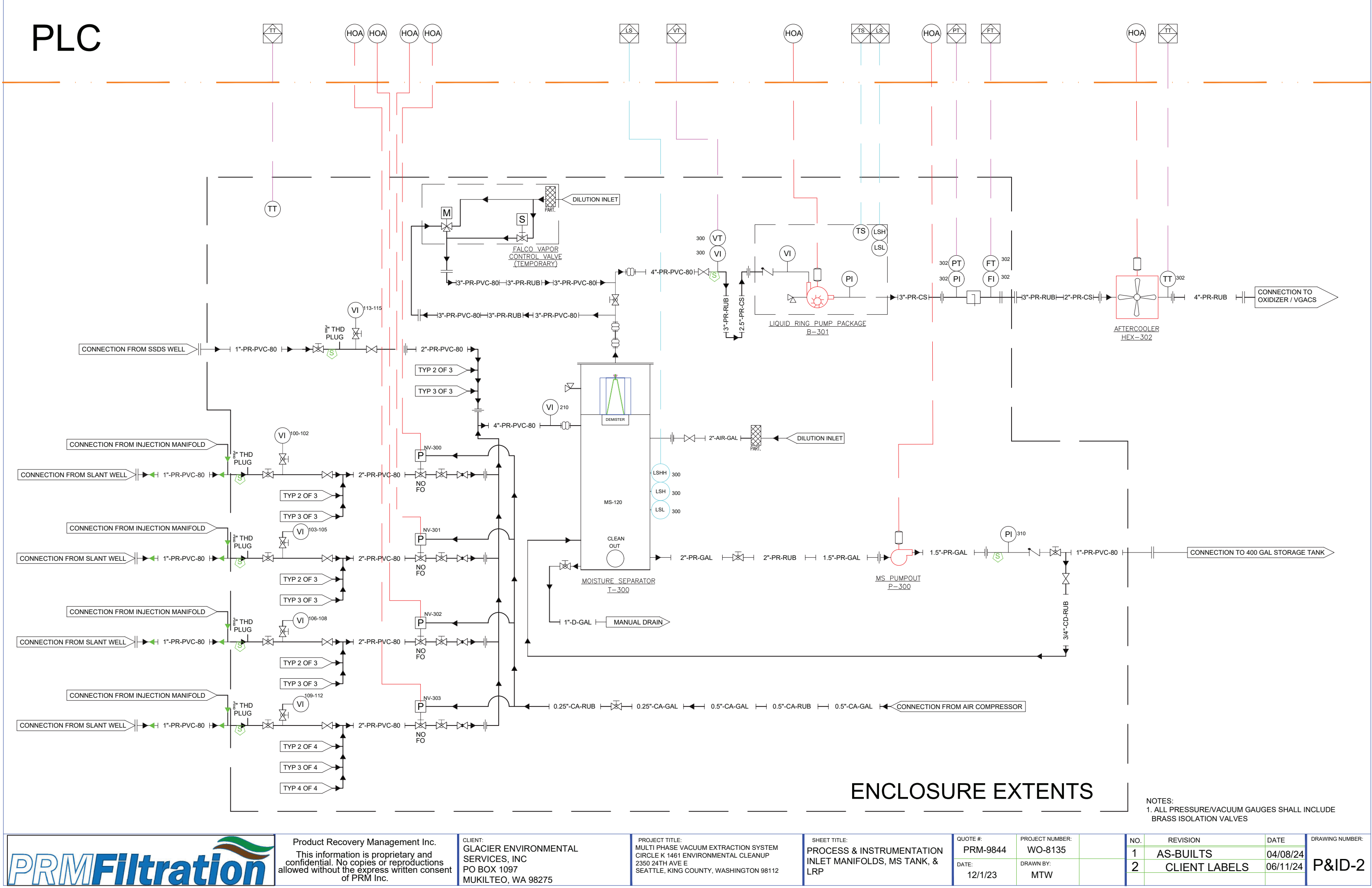
QUOTE #:
PRM-9844
DATE:
12/1/23

PROJECT NUMBER:
WO-8135
DRAWN BY:
MTW

NO.	REVISION	DATE
1	AS-BUILTS	04/08/24
2	CLIENT LABELS	06/11/24

DRAWING NUMBER:
P&ID-2

NOTES:
1. ALL PRESSURE/VACUUM GAUGES SHALL INCLUDE BRASS ISOLATION VALVES



TYP 4 OF 4

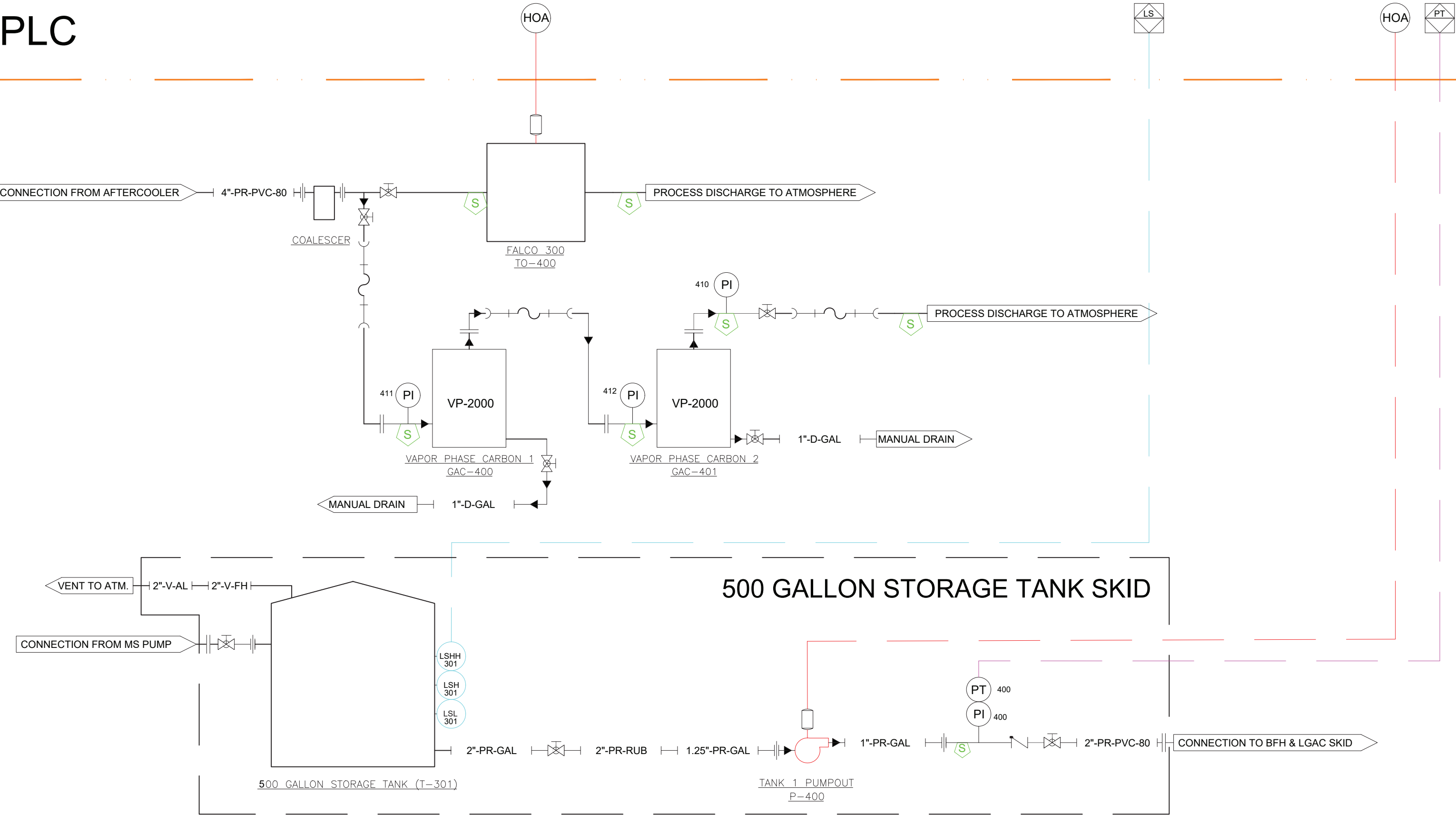
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ENCLOSURE EXTENTS

NOTES:

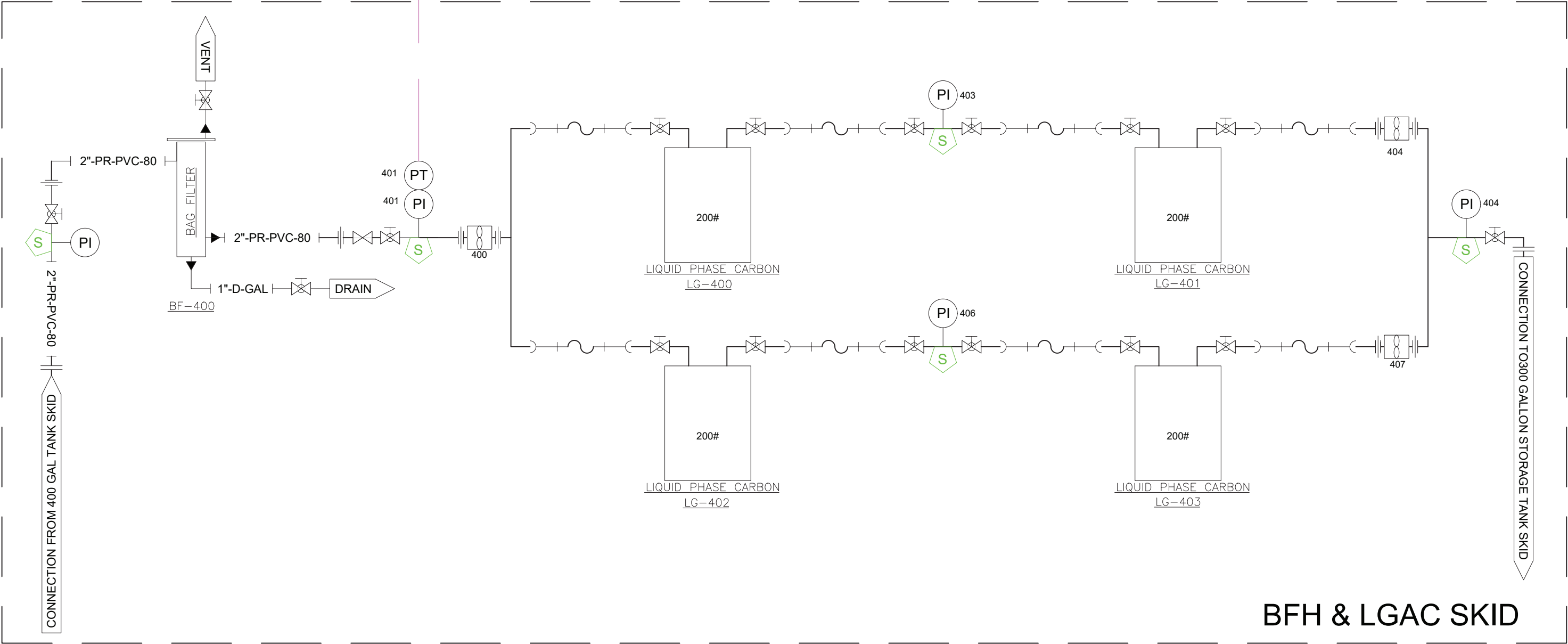
1. ALL PRESSURE/VACUUM GAUGES SHALL INCLUDE

NOTES:
1. ALL PRESSURE/VACUUM GAUGES SHALL INCLUDE BRASS ISOLATION VALVES



NOTES:
1. PRM IS NOT RESPONSIBLE FOR MAKING CONNECTIONS TO/FROM/BETWEEN FALCO AND CARBON VESSELS
2. ALL PRESSURE/VACUUM GAUGES SHALL INCLUDE BRASS ISOLATION VALVES

PLC



BFH & LGAC SKID

NOTES:
1. ALL PRESSURE/VACUUM GAUGES SHALL INCLUDE
BRASS ISOLATION VALVES



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PO BOX 1097
MUKILTEO, WA 98275

PROJECT TITLE:
MULTI PHASE VACUUM EXTRACTION SYSTEM
CIRCLE K 1461 ENVIRONMENTAL CLEANUP
2350 24TH AVE E
SEATTLE, KING COUNTY, WASHINGTON 98112

SHEET TITLE:
PROCESS & INSTRUMENTATION
BFH & LGAC SKID

QUOTE #:
PRM-9844
DATE:
12/1/23

PROJECT NUMBER:
WO-8135
DRAWN BY:
MTW

NO.	REVISION	DATE
1	AS-BUILTS	04/08/24
2	CLIENT LABELS	06/11/24

DRAWING NUMBER:
P&ID-4

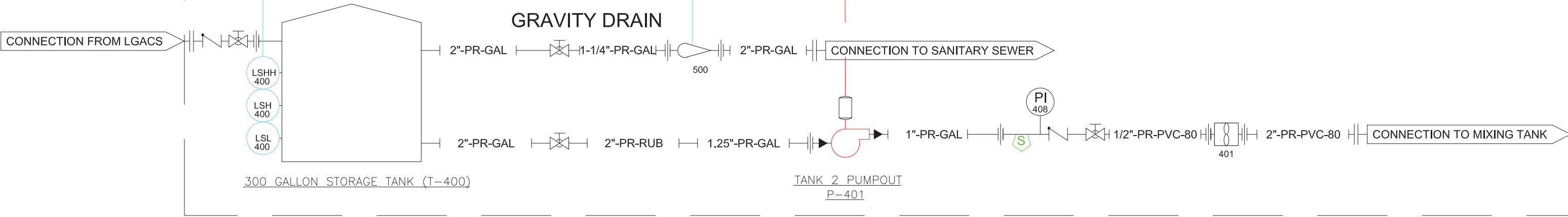
PLC

LS
400

FS
500

HOA

300 GALLON STORAGE TANK SKID



NOTES:
1. ALL PRESSURE/VACUUM GAUGES SHALL INCLUDE
BRASS ISOLATION VALVES



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GLACIER ENVIRONMENTAL
SERVICES, INC
PO BOX 1097
MUKILTEO, WA 98275

PROJECT TITLE:
MULTI PHASE VACUUM EXTRACTION SYSTEM
CIRCLE K 1461 ENVIRONMENTAL CLEANUP
2350 24TH AVE E
SEATTLE, KING COUNTY, WASHINGTON 98112

SHEET TITLE:
PROCESS & INSTRUMENTATION
300 GALLON STORAGE TANK
SKID

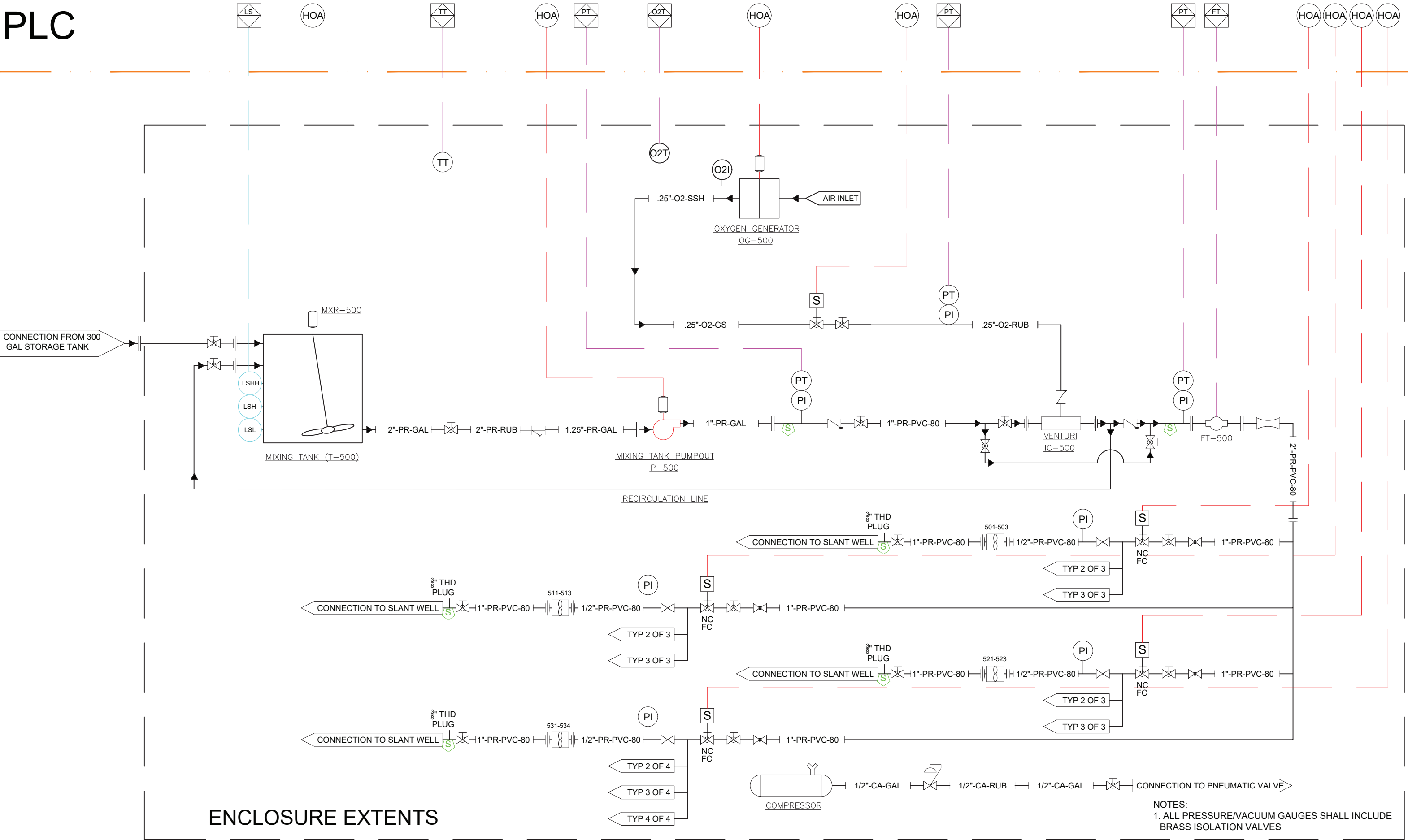
QUOTE #:
PRM-9844
DATE:
12/1/23

PROJECT NUMBER:
WO-8135
DRAWN BY:
MTW

NO.	REVISION	DATE
1	AS-BUILTS	04/08/24
2	CLIENT LABELS	06/11/24
3	LABEL UPDATES	07/15/24
4	AS-BUILTS	08/23/24
5	CO-#1	04/10/25

DRAWING NUMBER:
P&ID-5

PLC



NOTES:
1. ALL PRESSURE/VACUUM GAUGES SHALL INCLUDE
BRASS ISOLATION VALVES



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GLACIER ENVIRONMENTAL
SERVICES, INC
PO BOX 1097
MUKILTEO, WA 98275

PROJECT TITLE:
MULTI PHASE VACUUM EXTRACTION SYSTEM
CIRCLE K 1461 ENVIRONMENTAL CLEANUP
2350 24TH AVE E
SEATTLE, KING COUNTY, WASHINGTON 98112

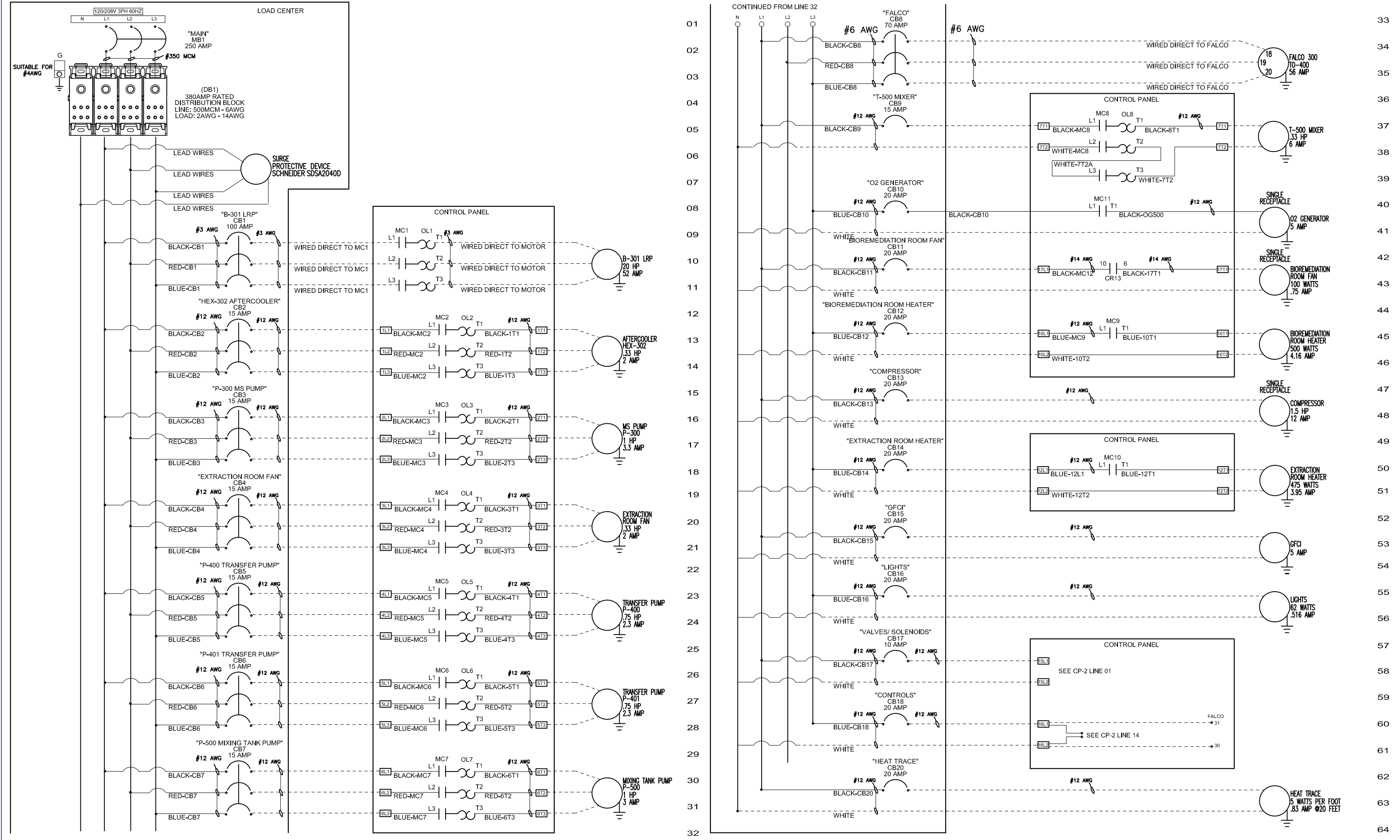
SHEET TITLE:
PROCESS & INSTRUMENTATION
BIO-REMEDIATION

QUOTE #:
PRM-9844
DATE:
12/1/23

PROJECT NUMBER:
WO-8135
DRAWN BY:
MTW

NO.	REVISION	DATE
1	AS-BUILTS	04/08/24
2	CLIENT LABELS	06/11/24

DRAWING NUMBER:
P&ID-6



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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC.
7509 212TH STREET SW
EDMONDS, WASHINGTON 98026

PROJECT TITLE:
CIRCLE K 1461
2350 24TH AVE E.
SEATTLE, KING COUNTY
WASHINGTON 98112

SHEET TITLE:
CONTROL SCHEMATIC

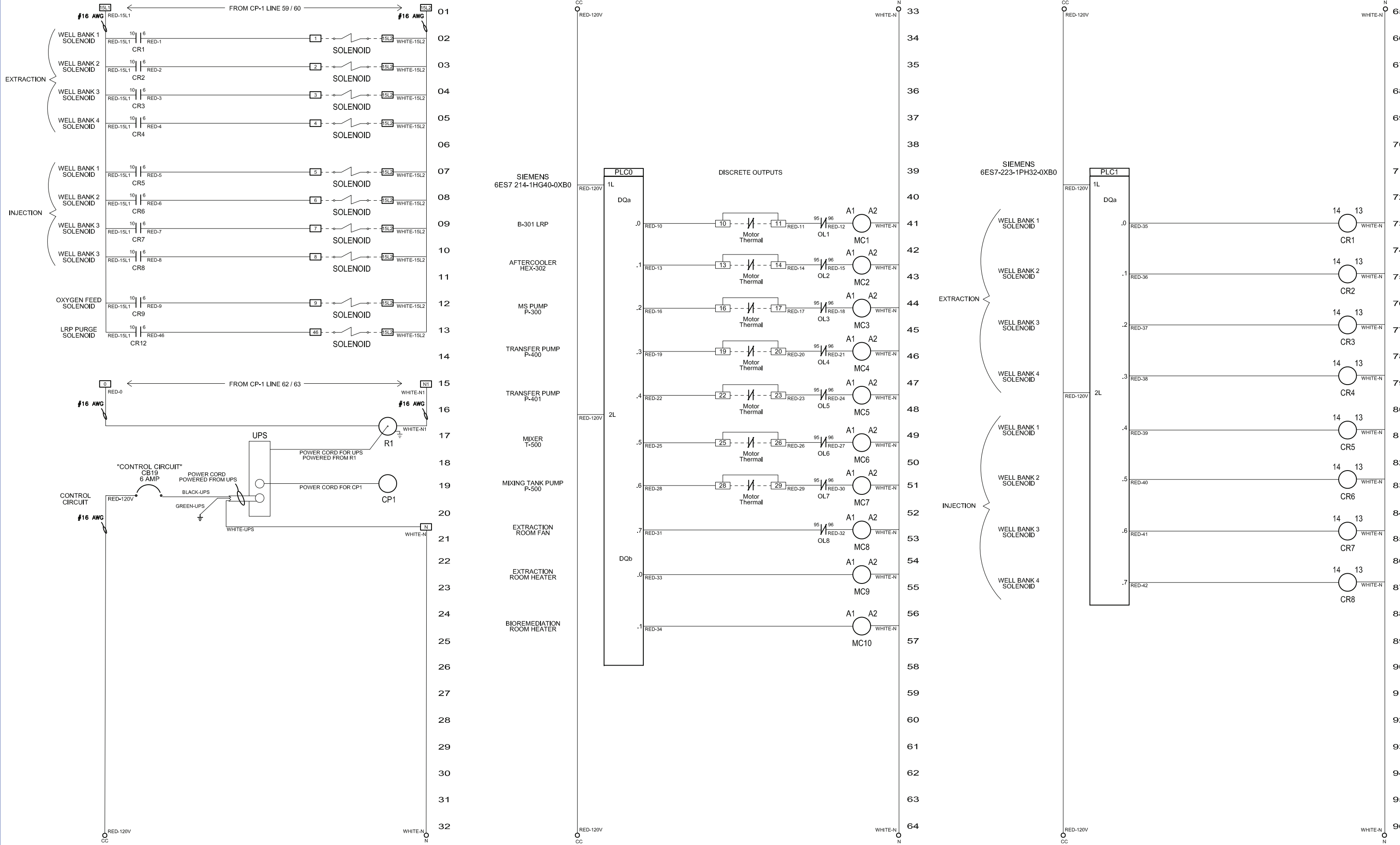
CAD FILE:
GLACIER
DATE:
11/17/23

PROJECT NUMBER:
8135
DRAWN BY:
CATLIN

SCALE:
NTS
MET FILE:
SN0693

NO.	REVISION	DATE
1	As Built	4/1/2024

DRAWING NUMBER:
CP-1



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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC.
7509 212TH STREET SW
EDMONDS, WASHINGTON 98026

PROJECT TITLE:
CIRCLE K 1461
2350 24TH AVE E.
SEATTLE, KING COUNTY
WASHINGTON 98112

SHEET TITLE:
CONTROL SCHEMATIC

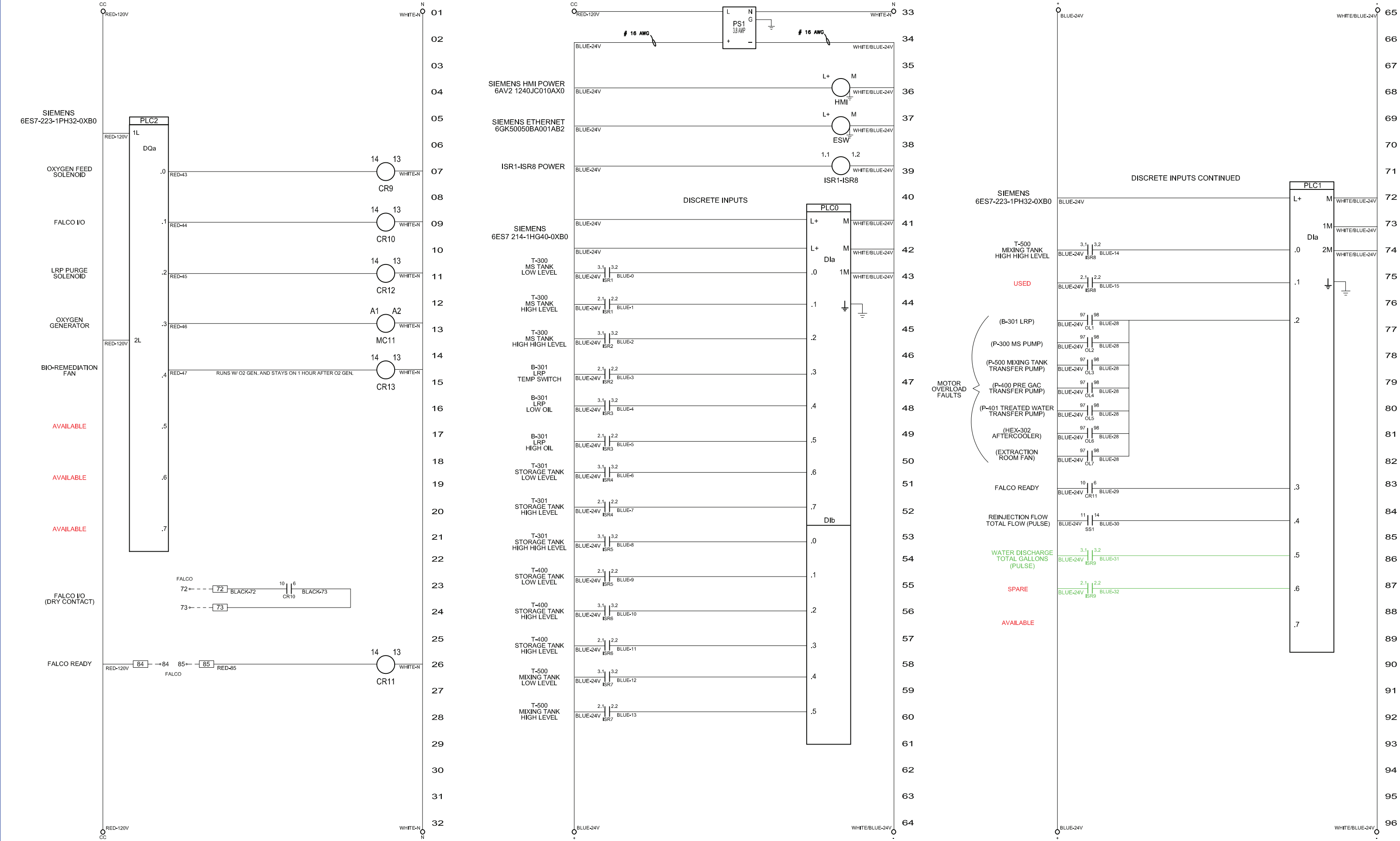
CAD FILE:
GLACIER
DATE:
11/17/23

PROJECT NUMBER:
8135
DRAWN BY:
CATLIN

SCALE:
NTS
MET FILE:
SN0693

NO.	REVISION	DATE
1	As Built	4/1/2024

DRAWING NUMBER:
CP-2



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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC.
7509 212TH STREET SW
EDMONDS, WASHINGTON 98026

PROJECT TITLE:
CIRCLE K 1461
2350 24TH AVE E.
SEATTLE, KING COUNTY
WASHINGTON 98112

SHEET TITLE:
CONTROL SCHEMATIC

CAD FILE:
GLACIER
DATE:
11/17/23

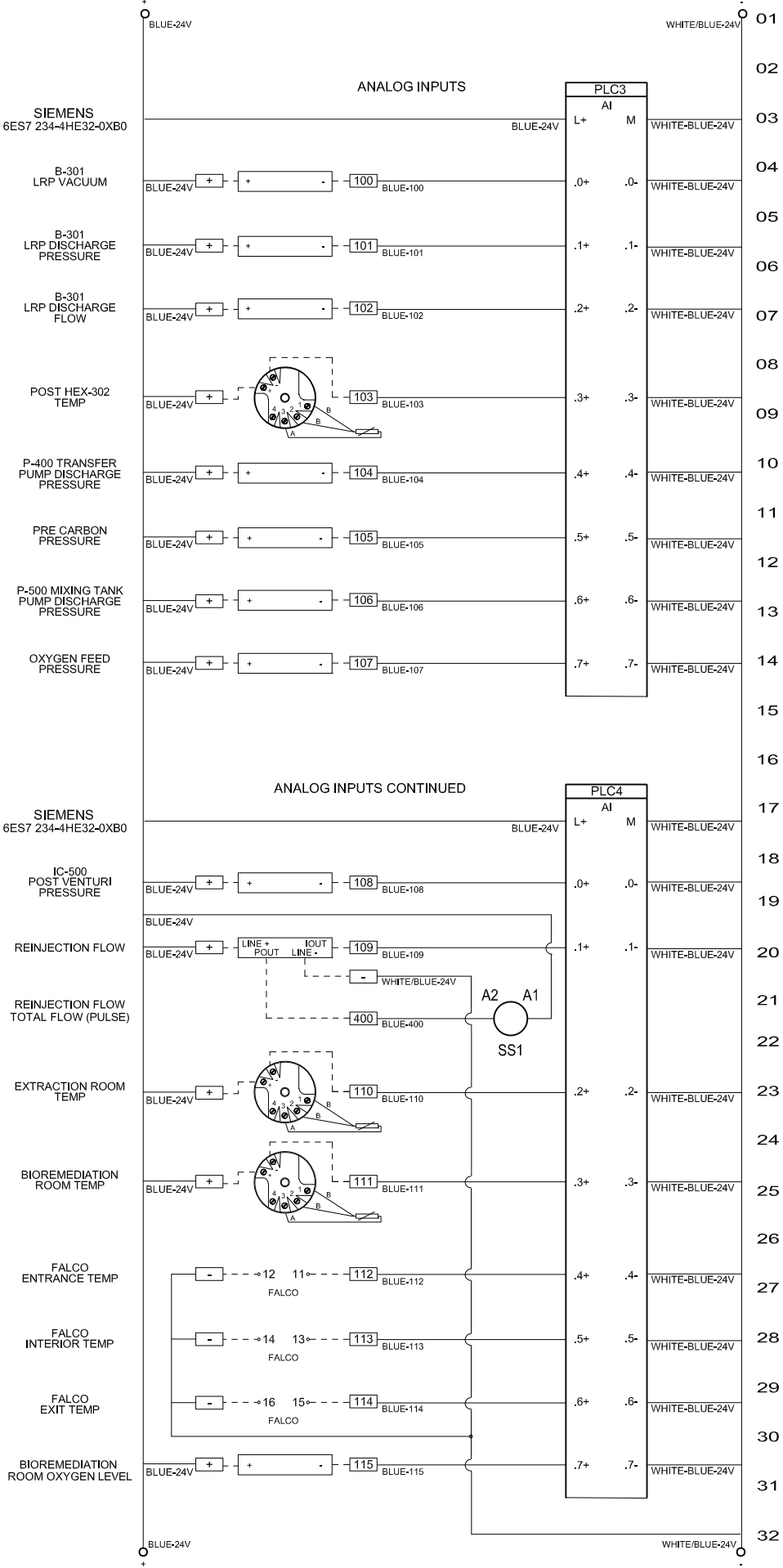
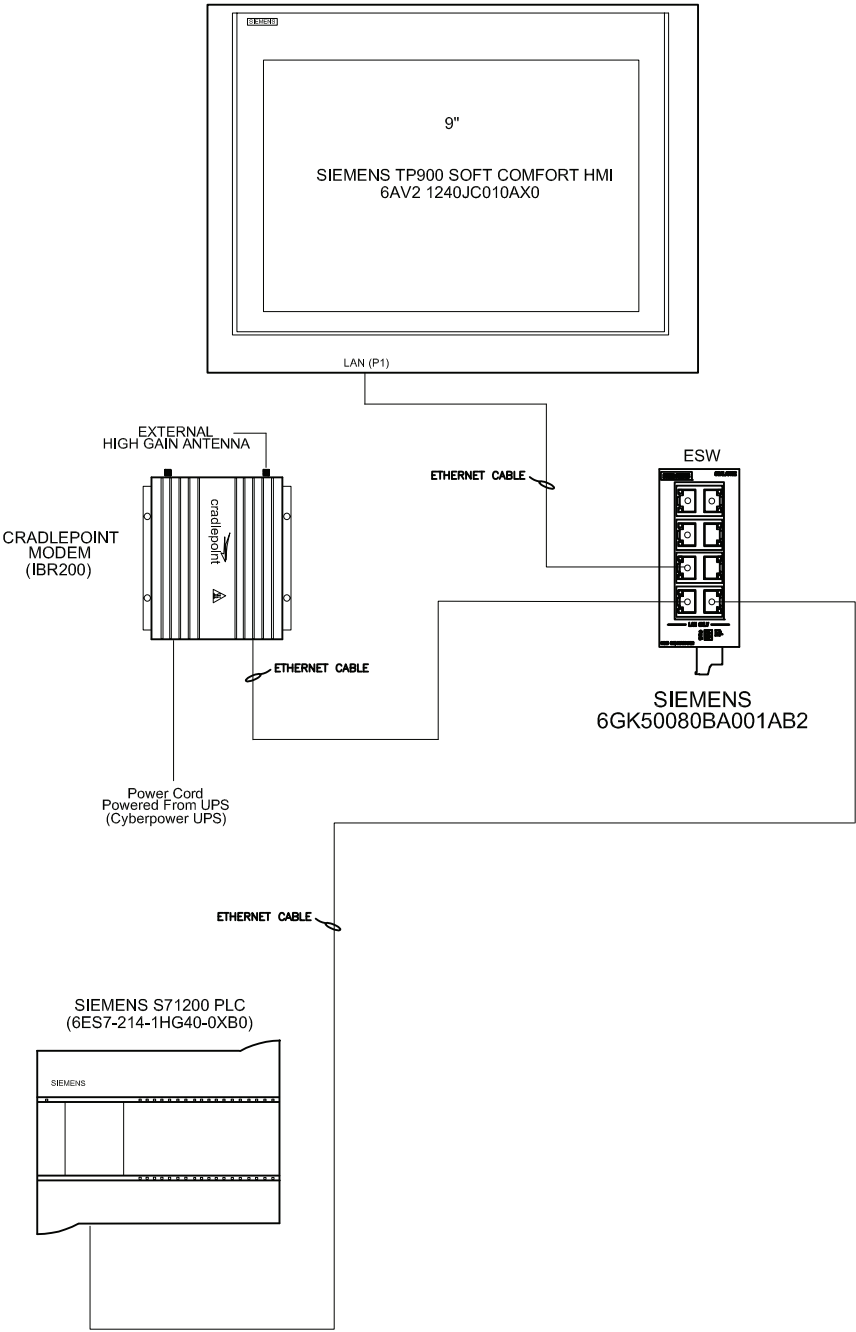
PROJECT NUMBER:
8135
DRAWN BY:
CATLIN

SCALE:
NTS
MET FILE:
SN0693

NO.	REVISION	DATE
1	As Built	4/1/2024
2	Water Discharge Totalizer	12/2/24

DRAWING NUMBER:
CP-3

NETWORKING



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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC.
7509 212TH STREET SW
EDMONDS, WASHINGTON 98026

PROJECT TITLE:
CIRCLE K 1461
2350 24TH AVE E.
SEATTLE, KING COUNTY
WASHINGTON 98112

SHEET TITLE:
CONTROL SCHEMATIC
& NETWORKING MAP

CAD FILE:
GLACIER
DATE:
11/17/23

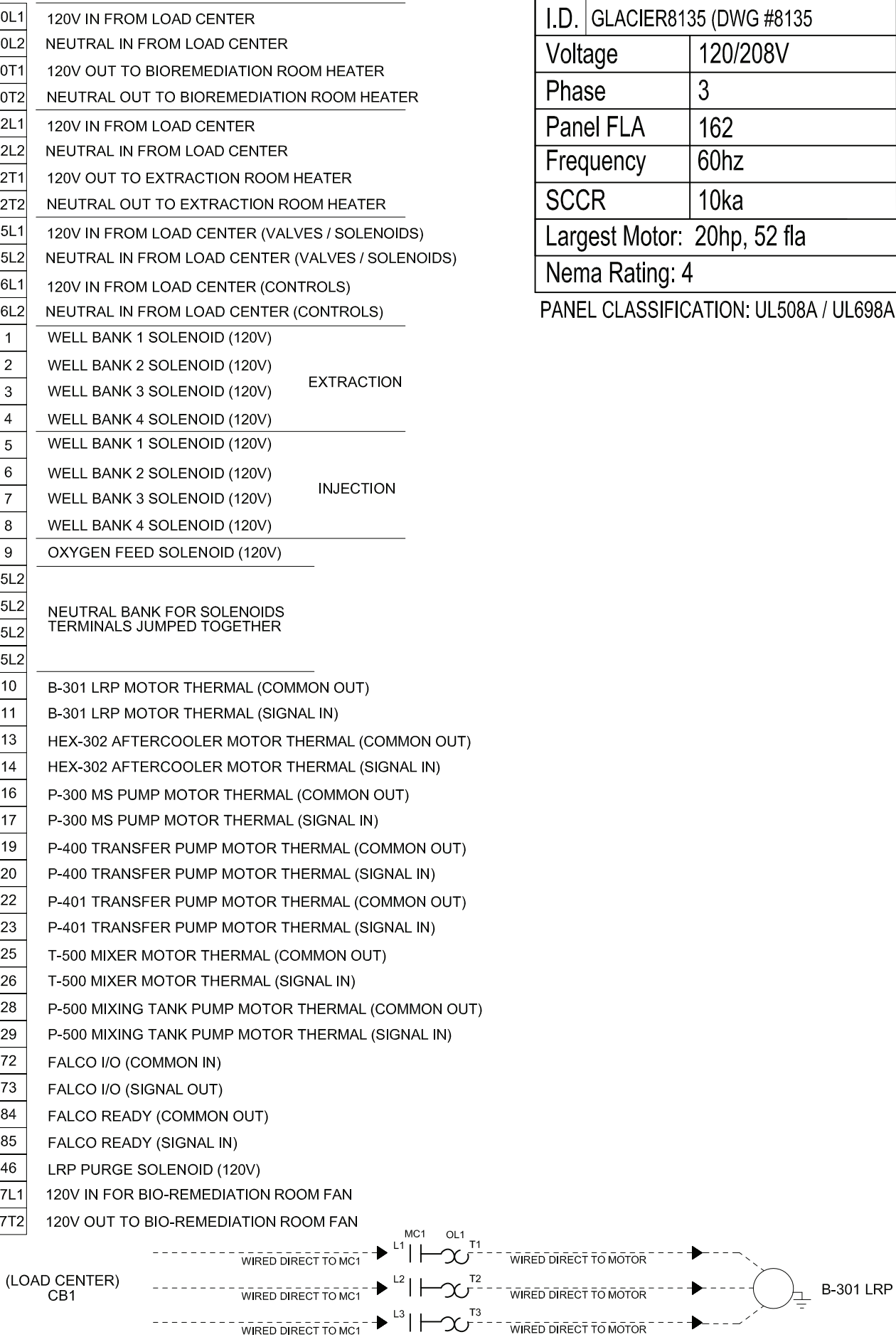
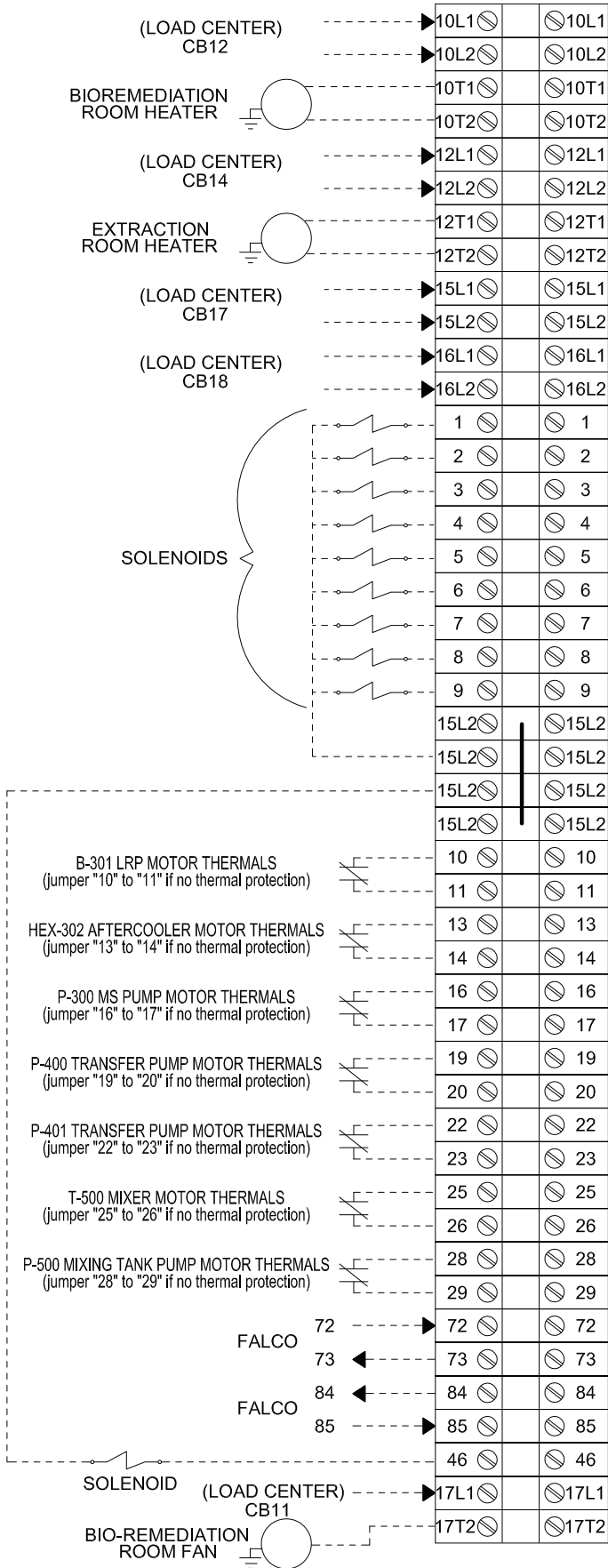
PROJECT NUMBER:
8135
DRAWN BY:
CATLIN

SCALE:
NTS
MET FILE:
SN0693

NO.	REVISION	DATE
1	As Built	4/1/2024

DRAWING NUMBER:
CP-4

LINE VOLTAGE TERMINALS

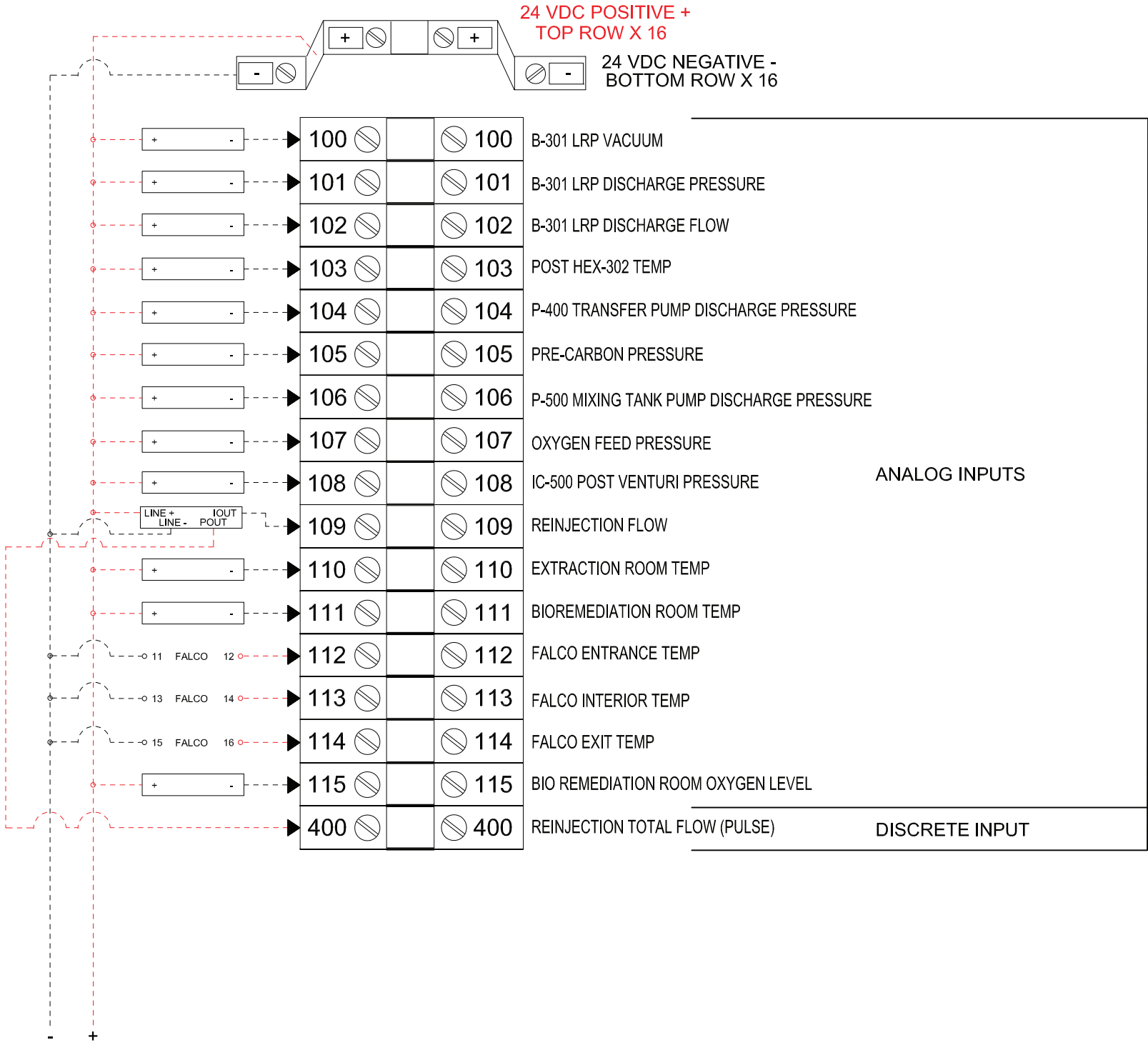


I.D.	GLACIER8135 (DWG #8135
Voltage	120/208V
Phase	3
Panel FLA	162
Frequency	60hz
SCCR	10ka
Largest Motor: 20hp, 52 fla	
Nema Rating: 4	

PANEL CLASSIFICATION: UL508A / UL698A

TERM3: 16 (+ / -)
TERM2: 17 (100 - 400)
PARTITION: 2
END CLAMP: 2

LOW VOLTAGE TERMINALS



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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC.
7509 212TH STREET SW
EDMONDS, WASHINGTON 98026

PROJECT TITLE:
CIRCLE K 1461
2350 24TH AVE E.
SEATTLE, KING COUNTY
WASHINGTON 98112

SHEET TITLE:
LOW TERMINAL DEFINITIONS

CAD FILE:
GLACIER
DATE:
11/17/23

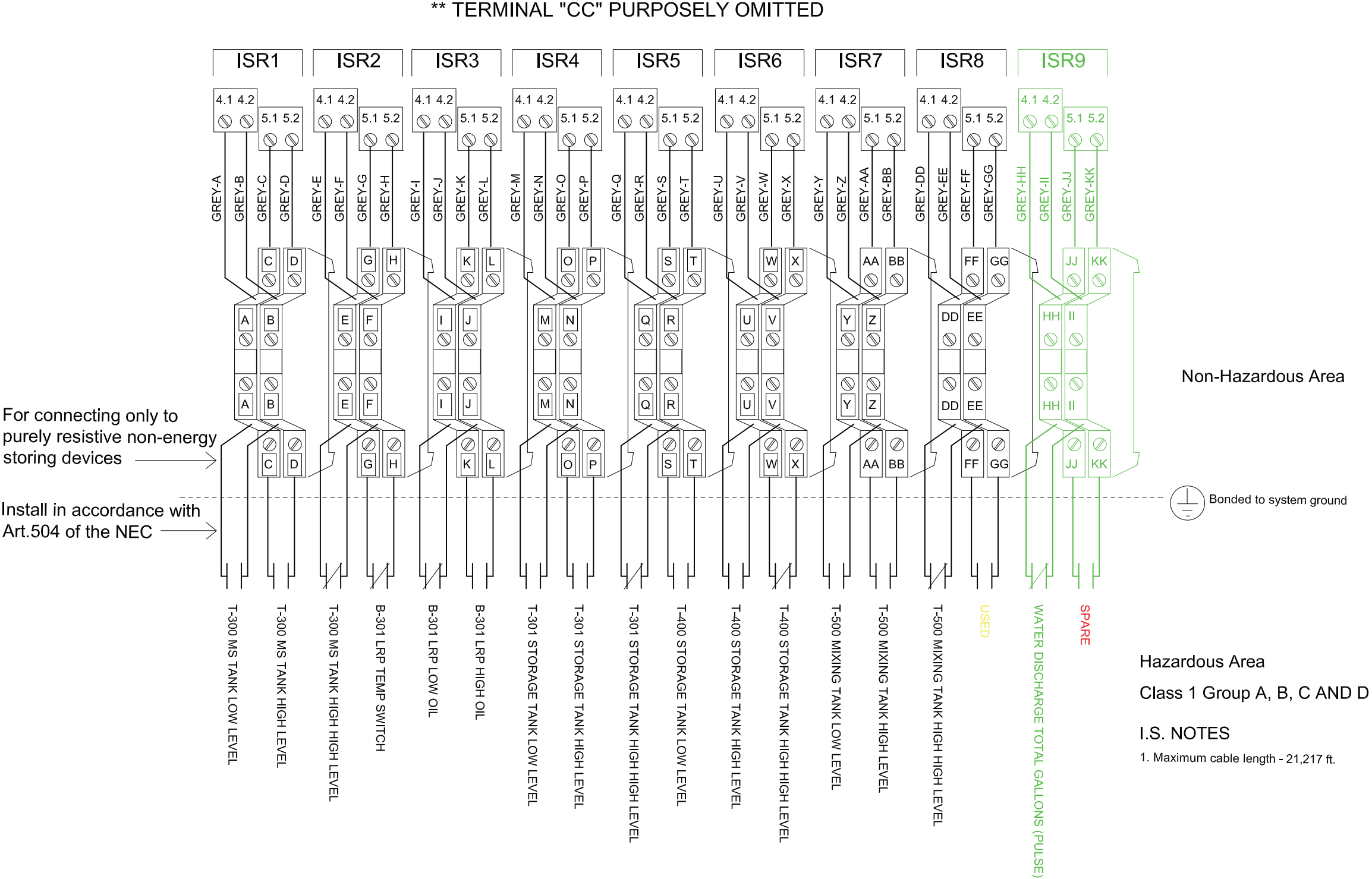
PROJECT NUMBER:
8135
DRAWN BY:
CATLIN

SCALE:
NTS
MET FILE:
SN0693

NO.	REVISION	DATE
1	As Built	4/1/2024

DRAWING NUMBER:
CP-6

TERM4 = 18
PARTITION: 1
END CLAMP: 2



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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC.
7509 212TH STREET SW
EDMONDS, WASHINGTON 98026

PROJECT TITLE:
CIRCLE K 1461
2350 24TH AVE E.
SEATTLE, KING COUNTY
WASHINGTON 98112

SHEET TITLE:
INTRINSICALLY SAFE
TERMINAL DEFINITIONS

CAD FILE:
GLACIER
DATE:
11/17/23

PROJECT NUMBER:
8135
DRAWN BY:
CATLIN

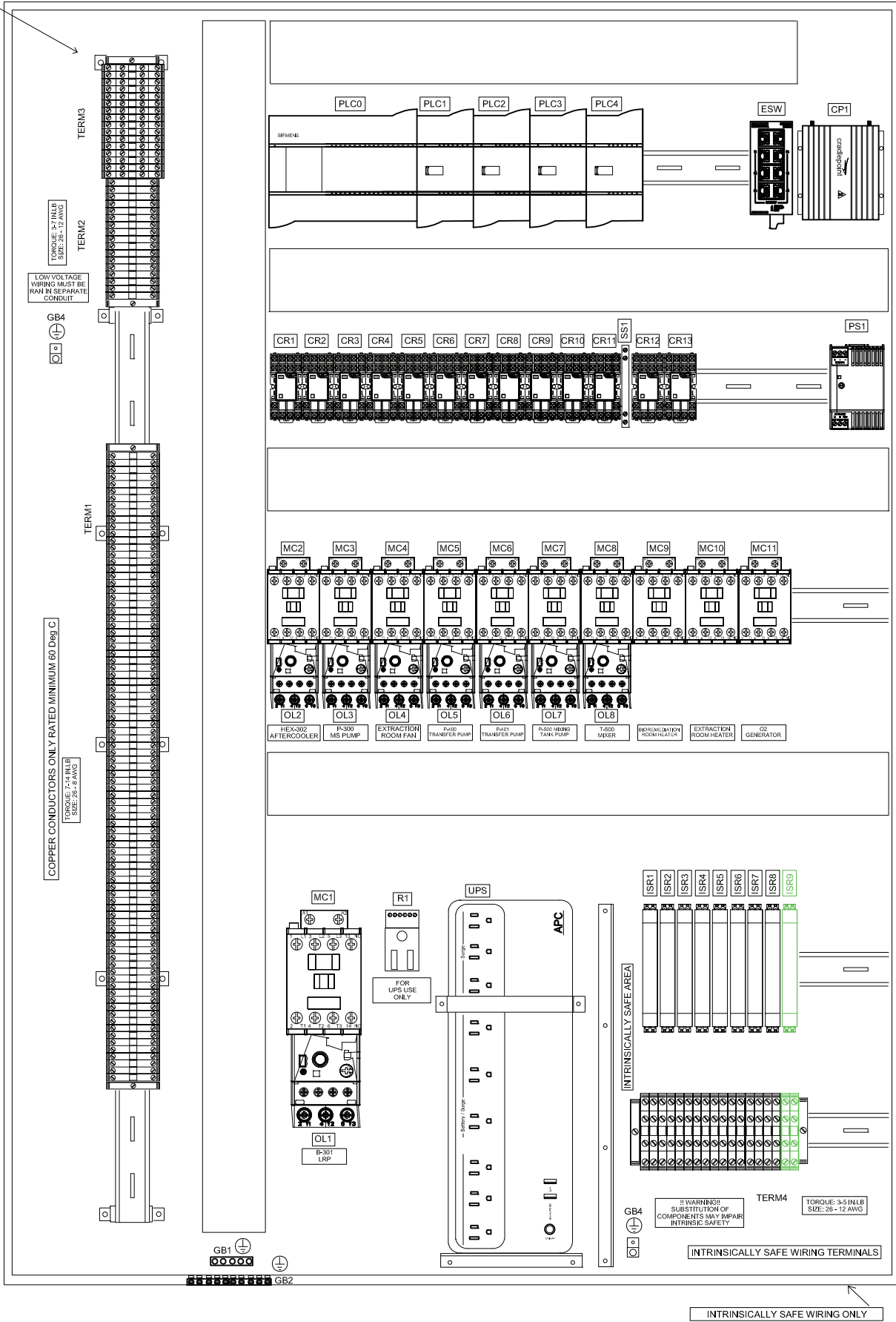
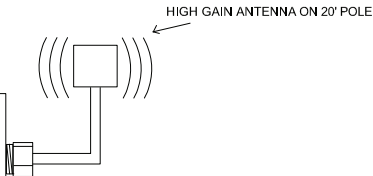
SCALE:
NTS
MET FILE:
SN0693

NO.	REVISION	DATE
1	As Built	4/1/2024
2	Water Discharge Totalizer	12/2/24

DRAWING NUMBER:
CP-7

Terminal strip need to be as far right as reasonable.

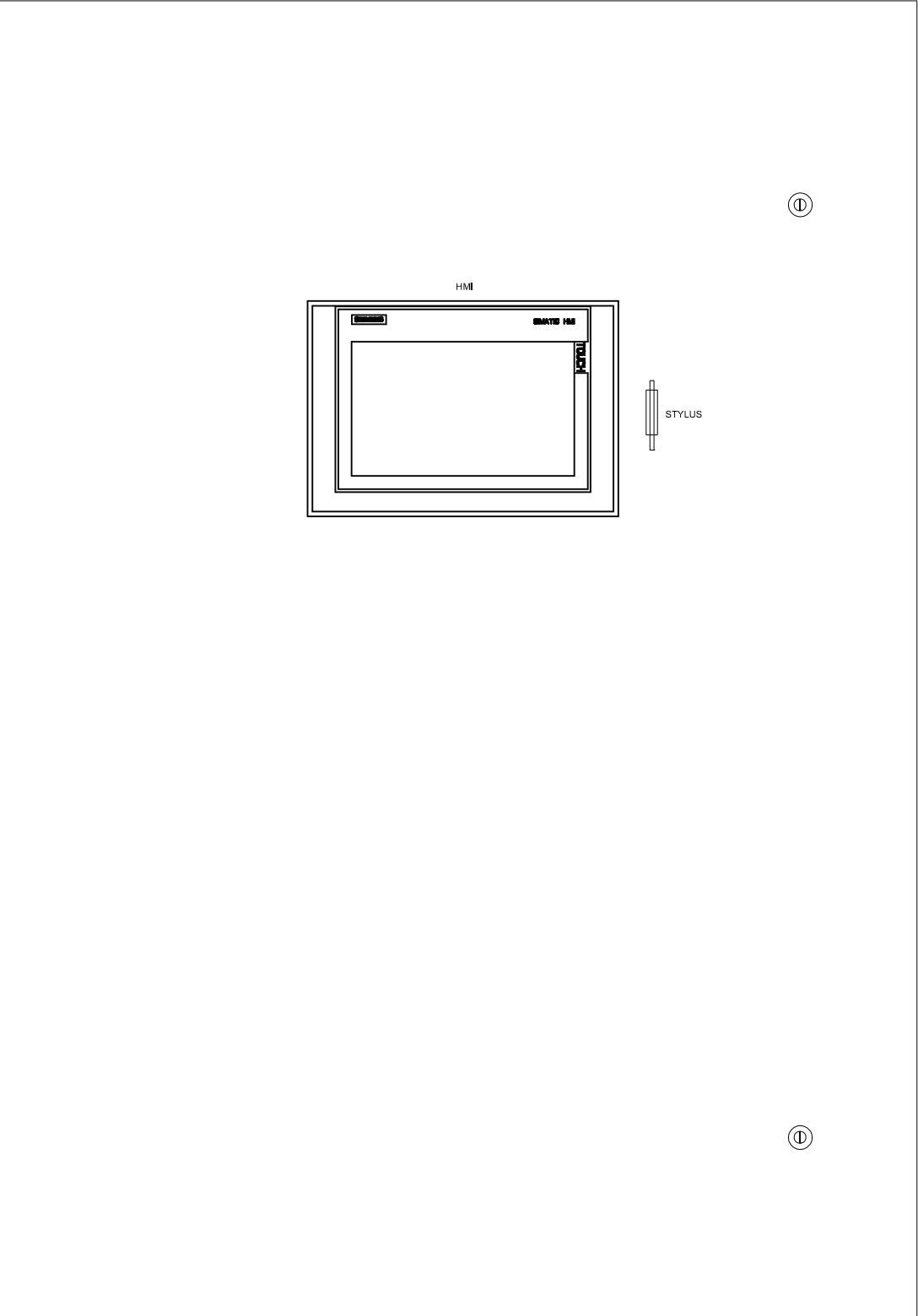
BACKPLATE



Qty.	Drawing I.D.	Part No.	Description
		Enclosures	
1		28260	Technomatic 32x48x12 w/ Backplate
		Backplate	
1	PLC0	6ES7 214-1HG40-0XB0	Siemens S71200 PLC
1	PLC1	6ES72231PH320XB0	Siemens 8 Discrete Input 8 Relay Output Module
1	PLC2	6ES72231PH320XB0	Siemens 8 Discrete Input 8 Relay Output Module
1	PLC3	6ES72314HF320XB0	Siemens 8 Analog Input Module
1	PLC4	6ES72314HF320XB0	Siemens 8 Analog Input Module
1	ESW	6GK50050BA001AB2	Siemens 5 Port Ethernet Switch
1	CP1	IBR200	Cradlepoint Modem
13	CR1-CR13	D4L-110VAC	Rele 120vac Ice Cube Relay
13	CR1-CR13	ES-15/4	Rele Ice Cube Relay Base
1	SS1	8950820000	Weidmuller Solid State Relay
1	PS1	6EP1332-5BA20	Siemens 24VDC Power Supply
10	MC2-MC11	3RT20161AK61	Siemens Motor Controller
1	OL2	3RU21161CB0	Siemens Motor Overload 1.8 - 2.5 amp
1	OL3	3RU21161EB0	Siemens Motor Overload 2.8 - 4.0 amp
1	OL4	3RU21161CB0	Siemens Motor Overload 1.8 - 2.5 amp
1	OL5	3RU21161DB0	Siemens Motor Overload 2.2 - 3.2 amp
1	OL6	3RU21161DB0	Siemens Motor Overload 2.2 - 3.2 amp
1	OL7	3RU21161EB0	Siemens Motor Overload 2.8 - 4.0 amp
1	OL8	3RU21161HB0	Siemens Motor Overload 5.5 - 8.0 amp
1	MC1	3RT20381AK60	Siemens Motor Controller
1	OL1	3RU21364QB0	Siemens Motor Overload 47 - 57 amp
1	R1	635OL-080523	Wiedmuller 15amp GFCI
1	UPS	BE850G2	APC 850va Uninturpted Power Supply
2		PS5266-X	Pass & Seymour Male Plug End
9	ISR1-ISR9	2865476	Phoenix Contact Intrinsically Safe Barrier / Relay
90	TERM1	1020200000	Weidmuller Terminal Blocks
17	TERM2	1020000000	Weidmuller Terminal Blocks
16	TERM3	1021500000	Weidmuller Terminal Blocks Tan 2 Tier
18	TERM4	1021580000	Weidmuller Terminal Blocks Blue 2 Tier
1		1050000000	Weidmuller Terminal Block Partition Plate
1		1059100000	Weidmuller Terminal Block Partition Plate
1		1059180000	Weidmuller Terminal Block Partition Plate
6		1061200000	Weidmuller Terminal Block End Clamp
1	GB1	PK5GTA	Square D Equipment Grounding Bar Kit
1	GB2	PK7GTA	Siemens Equipment Grounding Bar Kit
2	GB4	OEC99001	Single Grounding Lug 4-14AWG
	AS NEEDED		80x60 Wire Duct
1	Antenna	WMMG-7-27-5SP	Rok Bro's High Gain Antenna
20'	Antenna		1 1/4" EMT

(HINGE ON RIGHT SIDE)
INTERIOR DOOR

EXTERIOR DOOR



Qty.	Drawing I.D.	Part No.	Description
		Door	
1	HMI	6AV2 1240JC010AX0	Siemens 9-inch Soft Comfort Touch Panel
1	HMI	N/A	Soft Tip Stylus
1	HMI	Classic-1-1003	PenPal Stylus Holder



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CLIENT:
GLACIER ENVIRONMENTAL SERVICES, INC.
7509 212TH STREET SW
EDMONDS, WASHINGTON 98026

PROJECT TITLE:
CIRCLE K 1461
2350 24TH AVE E.
SEATTLE, KING COUNTY
WASHINGTON 98112

SHEET TITLE:
LAYOUT & BILL OF MATERIAL

CAD FILE:
GLACIER
DATE:
11/17/23

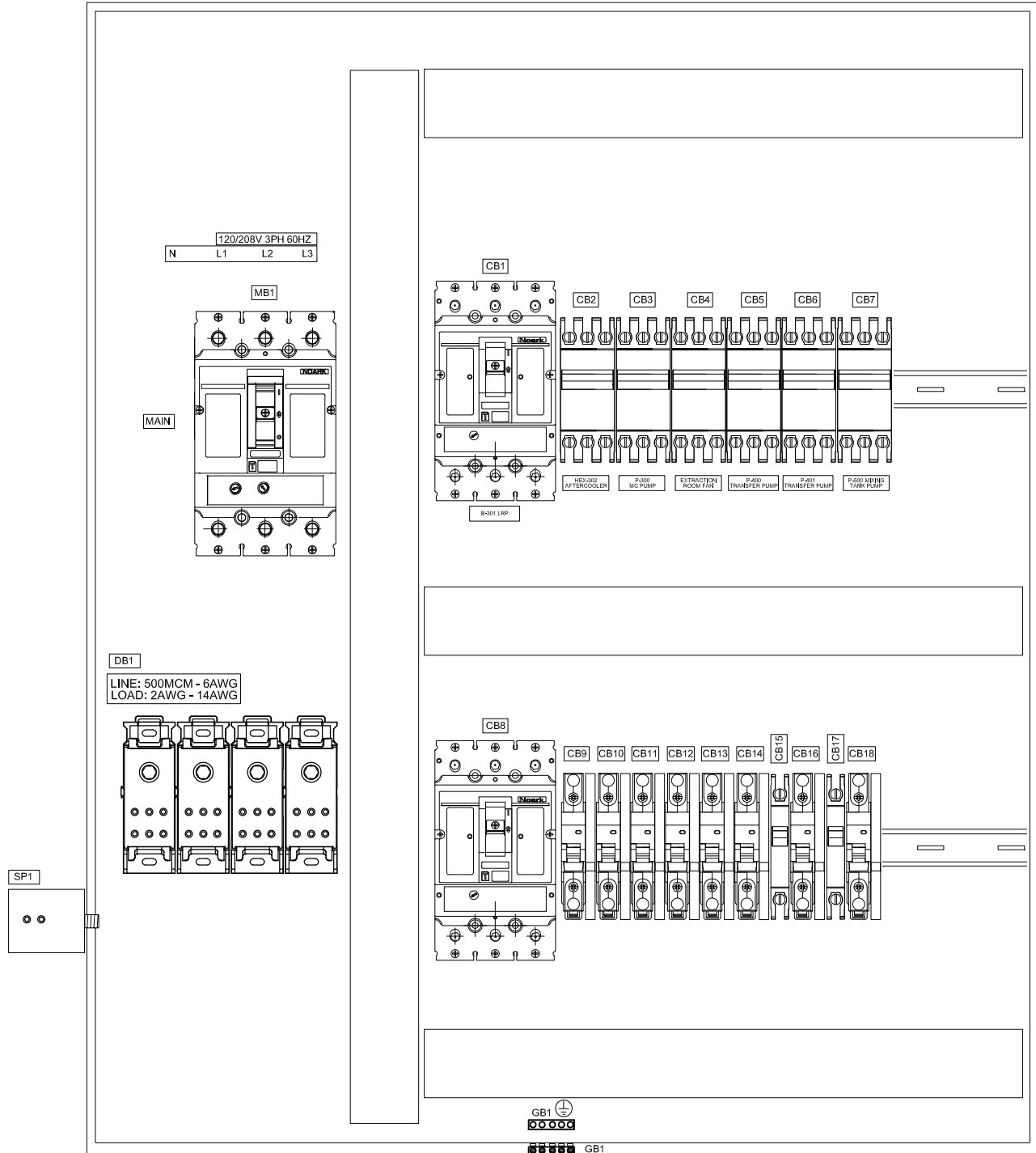
PROJECT NUMBER:
8135
DRAWN BY:
CATLIN

SCALE:
NTS
MET FILE:
SN0693

NO.	REVISION	DATE
1	As Built	4/1/2024

DRAWING NUMBER:
CP-9

BACKPLATE



Qty.	Drawing I.D.	Part No.	Description
		Enclosures	
1		28220	Technomatic 32x40x12 w/ Backplate
		Backplate	
1	MB1	M2N250T3L	Noark 250amp 208v 3 Pole Circuit Breaker
1	CB1	M1N100T3L	Noark 100amp 208v 3 Pole Circuit Breaker
1	CB2	5SJ4318-7HG41	Siemens 15amp 208v 3 Pole Circuit Breaker
1	CB3	5SJ4318-7HG41	Siemens 15amp 208v 3 Pole Circuit Breaker
1	CB4	5SJ4318-7HG41	Siemens 15amp 208v 3 Pole Circuit Breaker
1	CB5	5SJ4318-7HG41	Siemens 15amp 208v 3 Pole Circuit Breaker
1	CB6	5SJ4318-7HG41	Siemens 15amp 208v 3 Pole Circuit Breaker
1	CB7	5SJ4318-7HG41	Siemens 15amp 208v 3 Pole Circuit Breaker
1	CB8	M1N70T3L	Noark 70amp 208v 3 Pole Circuit Breaker
1	CB9	B1NQ1D20	Noark 20amp 120v Single Pole Circuit Breaker
1	CB10	B1NQ1D20	Noark 20amp 120v Single Pole Circuit Breaker
1	CB11	B1NQ1D20	Noark 20amp 120v Single Pole Circuit Breaker
1	CB12	B1NQ1D20	Noark 20amp 120v Single Pole Circuit Breaker
1	CB13	B1NQ1D20	Noark 20amp 120v Single Pole Circuit Breaker
1	CB14	B1NQ1D20	Noark 20amp 120v Single Pole Circuit Breaker
1	CB15	B1NQ1D20	Noark 20amp 120v Single Pole Circuit Breaker
1	CB16	B1NQ1D10	Noark 10amp 120v Single Pole Circuit Breaker
1	CB17	B1NQ1D6	Noark 6amp 120v Single Pole Circuit Breaker
1	GB1	PK5GTA	Square D Equipment Grounding Bar Kit
1	GB4	OEC99001	Single Grounding Lug 4-14AWG
AS NEEDED			60X80 Wire Duct