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I2.5	CSA 32 P&ID SODIUM HYPOCHLORITE

**STRUCTURAL NOTES FOR SITE WORK**

ALL STRUCTURAL NOTES ON SHEETS S000, S001, AND S002 SHALL APPLY TO SITE WORK UNLESS SPECIFICALLY LISTED IN THIS PARAGRAPH.

**CONCRETE**

FOUNDATIONS AND MATS SHALL HAVE A ULTIMATE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A W/C RATIO OF 0.45-0.50. PAVEMENTS SHALL HAVE A ULTIMATE STRENGTH OF 3,500 PSI AT 28 DAYS WITH A W/C RATIO OF 0.5.

**STRUCTURAL STEEL**

HSS SHAPES SHALL CONFORM TO ASTM A550 GR B. ALL EXPOSED STEEL SHALL BE GALVANIZED.

**SPECIAL NOTE**

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

**SITE SAFETY AND PROTECTION NOTES**

THE DUTY OF THE ENGINEER, OWNER OR ITS AGENTS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE AND THE UNDERTAKING OF INSPECTIONS OR THE GIVING OF INSTRUCTIONS AS AUTHORIZED HEREIN IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF THE ACTUAL CONSTRUCTION NOR MAKE THE ENGINEER, OWNER OR ITS AGENTS RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY BY ANY PERSON.

THE CONTRACTOR SHALL HAVE AT THE WORK SITE, COPIES OR SUITABLE EXTRACTS OF CONSTRUCTION SAFETY ORDERS, ISSUED BY CAL-OSHA. CONTRACTOR SHALL COMPLY WITH PROVISIONS OF THESE AND ALL OTHER APPLICABLE LAWS, ORDINANCES AND REGULATIONS. THE CONTRACTOR MUST COMPLY WITH PROVISIONS OF THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, PROMULGATED BY THE SECRETARY OF LABOR UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, AS SET FORTH IN TITLE 29 C.F.R.

TO PROTECT THE LIVES AND HEALTH OF CONTRACTOR'S EMPLOYEES UNDER THE CONTRACT, THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, INC., AND SHALL MAINTAIN AN ACCURATE RECORD OF ALL CASES OF DEATH, OCCUPATIONAL DISEASE, AND INJURY REQUIRING MEDICAL ATTENTION OR CAUSING LOSS OF TIME FROM WORK, ARISING OUT OF AND IN THE COURSE OF EMPLOYMENT OR WORK UNDER THE CONTRACT.

THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR THE SAFETY, EFFICIENCY, AND ADEQUACY OF CONTRACTOR'S FACILITIES, APPLIANCES, AND METHODS AND FOR ANY DAMAGE, WHICH MAY RESULT FROM THEIR FAILURE OR THEIR IMPROPER CONSTRUCTION, MAINTENANCE OR OPERATION.

THE CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, PROVOST & PRITCHARD CONSULTING GROUP, AND THEIR RESPECTIVE AGENTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER, ENGINEER, OR THEIR RESPECTIVE AGENTS.

THE OWNER AND ITS AGENTS' SITE RESPONSIBILITIES ARE LIMITED SOLELY TO THE ACTIVITIES OF THEIR EMPLOYEES ON SITE. THESE RESPONSIBILITIES SHALL NOT BE INFERRED BY ANY PARTY TO MEAN THAT THE OWNER OR ITS AGENTS HAVE RESPONSIBILITY FOR SITE SAFETY, SAFETY IN, ON, OR ABOUT THE SITE IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR ALONE. THE CONTRACTOR'S METHODS OF WORK PERFORMANCE, SUPERINTENDENCE AND THE CONTRACTOR'S EMPLOYEES, AND SEQUENCING OF CONSTRUCTION ARE ALSO THE SOLE AND EXCLUSIVE RESPONSIBILITIES OF THE CONTRACTOR ALONE.

EXCESS MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE ROAD RIGHT-OF-WAY AT THE END OF CONSTRUCTION OPERATIONS, NIGHTLY.

**UTILITY POLE SPECIAL NOTES**

- POLES SHALL BE SUPPORTED AT ALL TIMES WHERE OUTSIDE EDGE OF TRENCH IS WITHIN 5' OF OUTSIDE EDGE OF POLE UNTIL SUCH TIME THAT TRENCH IS BACKFILLED AND COMPACTED. THE CONTRACTOR SHALL SUPPORT EXISTING POLES IN A MANNER APPROVED IN ADVANCE BY UTILITY COMPANY.
- THE CONTRACTOR SHALL NOTIFY UTILITY IN ADVANCE OF STARTING CONSTRUCTION ACTIVITIES REQUIRING POLE HOLDING AND OBTAIN A POLE HOLDING PERMIT.

**EXISTING UTILITY NOTES**

- THE CONTRACTOR SHALL POTHOLE ALL EXISTING FACILITIES IDENTIFIED PRIOR TO THE START OF CONSTRUCTION AS FIRST ORDER OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION TO ALLOW ADVANCE DECISIONS TO BE MADE ON NECESSARY RELOCATIONS OR GRADE CHANGES TO PROPOSED FACILITIES. THE ENGINEER SHALL APPROVE FIELD CHANGES THAT INCLUDE ANY RELOCATIONS AND GRADE CHANGES ASSOCIATED WITH EXISTING FACILITY CONFLICTS.
- POTHOLING SHALL EXPOSE THOSE FACILITIES THAT MAY EFFECT THE LOCATION OR DEPTH OF THE WATER MAIN OR THOSE UTILITIES AS SPECIFICALLY NOTED HEREIN.
- THE EXISTING COUNTY SERVICE AREA (CSA) 30 AND CSA 32 WATER DISTRIBUTION SYSTEMS AND SEWER COLLECTION SYSTEMS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS BASED ON INFORMATION PROVIDED BY THE COUNTY OF FRESNO. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY'S REPRESENTATIVE TO IDENTIFY LOCATION OF EXISTING WATER AND SEWER FACILITIES IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR POTHOLING AND PHYSICALLY VERIFYING THE LOCATION AND DEPTH OF WATER AND SEWER FACILITIES.
- THE DEPTH OF SEWER MAINS SHOWN ARE APPROXIMATE BASED ON FIELD MEASUREMENTS AND FLOW LINES ARE SHOWN ON THE PLANS FOR REFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTH OF EXISTING SEWER MAINS AT WATER MAIN CROSSINGS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SEWER SERVICES AND VERIFY ADEQUATE SEPARATION FROM NEW WATER SERVICES (SEE CONSTRUCTION NOTES ON THIS SHEET).

**GENERAL NOTES**

- THE COUNTY OF FRESNO AND CALTRANS SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK WITHIN THEIR RESPECTIVE RIGHTS OF WAY OR NEAR THEIR EXISTING FACILITIES, UNLESS SPECIFIED OTHERWISE ON THESE PLANS, SPECIFICATIONS, OR PERMITS ISSUED BY EACH RESPECTIVE AGENCY.
- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THESE PLANS, PROJECT SPECIFICATIONS, AND ALL OTHER STANDARDS REFERENCED.
- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 8-1-1. CONTRACTOR SHALL MAKE ENGINEER AWARE OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY OF FRESNO AND CALTRANS AND OBTAIN APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING. TRAFFIC CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST REVISION.
- THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM COUNTY OF FRESNO FOR ANY TRAFFIC CONTROL OR OTHER INCIDENTAL WORK WITHIN COUNTY OF FRESNO RIGHT OF WAY.
- THE CONTRACTOR SHALL OBTAIN A BUILDING PERMIT FROM COUNTY OF FRESNO DEVELOPMENT SERVICES. DEVELOPMENT SERVICES CAN BE REACHED BY PHONE AT (559) 600-4570 OR BY EMAIL AT PLANCHECKBUILDINGCODE2@FRESNOCOUNTYCA.GOV
- THE CONTRACTOR SHALL REPLACE ANY DISTURBED WARNING MARKERS, SIGNS, STRIPING, CROSS BARS AND STOP BARS AS NECESSARY AND AS DIRECTED BY THE COUNTY AND CALTRANS.
- WORK WITHIN WESTLANDS WATER DISTRICT RIGHTS-OF-WAY SHALL BE COMPLETED IN ACCORDANCE WITH CONSTRUCTION NOTES ON THIS SHEET.
- THE CONTRACTOR SHALL COMPLY WITH THE ENVIRONMENTAL PROTECTION MEASURES SPECIFIED IN SECTION 01 35 43 OF THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE DUST CONTROL AT ALL TIMES AND COMPLYING WITH ALL REQUIREMENTS OF THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT. REFER TO THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS AT ALL TIMES. REFER TO THE PROJECT SPECIFICATIONS.
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY LAWS OF THE STATE OF CALIFORNIA AND CAL/OSHA STANDARDS INCLUDING BUT NOT LIMITED TO 2019 CALIFORNIA BUILDING, FIRE, PLUMBING, ELECTRICAL, MECHANICAL, AND BUILDING ENERGY CODES.
- ALL EXCESS MATERIAL AND/OR DEBRIS SHALL BE REMOVED UPON COMPLETION OF INSTALLATION.
- AN ON-SITE PRE-CONSTRUCTION MEETING BETWEEN ALL PARTIES INVOLVED IN THE CONSTRUCTION AND INSPECTION OF IMPROVEMENTS SHALL BE ARRANGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL CONDUCT A LINEAR VIDEO OF THE ENTIRE PROJECT LIMITS TO RECORD PRE-EXISTING CONDITIONS OF THE COUNTY ROAD AND PROPERTY FRONTAGE IMPROVEMENTS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS INCLUDING BUT NOT LIMITED TO: FENCES, GATES, MAILBOXES, CONCRETE, AND LANDSCAPING. ANY EXISTING IMPROVEMENTS DAMAGED SHALL BE REPLACED "IN KIND" AND RESTORED TO THEIR ORIGINAL CONDITION.

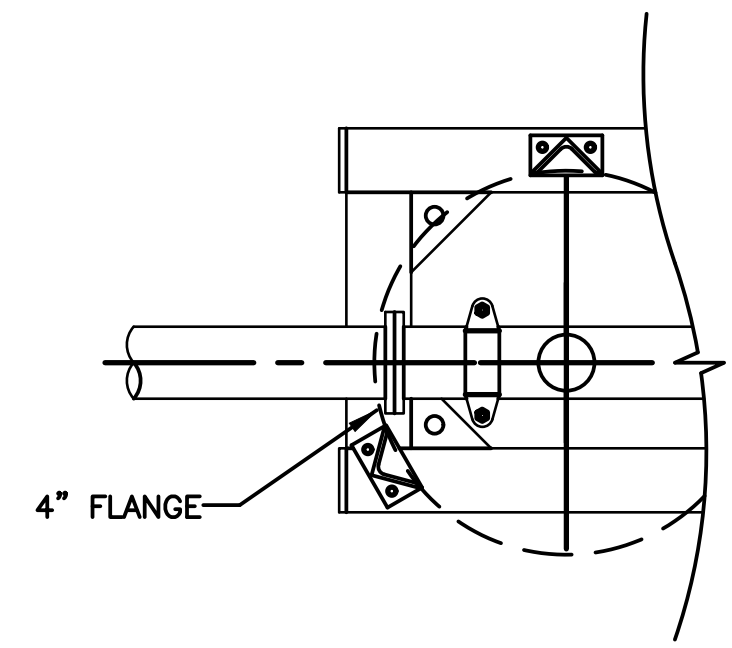
**CONSTRUCTION NOTES**

- SEWER, RAW WATER, GAS AND STORM DRAIN UTILITY CROSSINGS:
  - THE CONTRACTOR SHALL VERIFY THE DEPTH OF THE EXISTING UTILITY PIPES AS THE FIRST ORDER OF WORK AND SHALL NOTIFY THE ENGINEER OF ANY OBSERVED CONFLICTS WITH THE PROPOSED WATER MAIN PROFILES. IN NO CASE WILL LESS THAN 4" CLEARANCE BE ALLOWED BETWEEN EXISTING UTILITIES AND NEW WATER MAINS.
  - IF THE NEW WATER MAIN IN CSA 30 IS ABOVE THE EXISTING UTILITY PIPE AND CLEARANCE IS LESS THAN 12", THE CONTRACTOR SHALL INSTALL A MINIMUM LENGTH OF 20' OF SCHEDULE 80 DIP PIPE WITHOUT JOINTS, CENTERED ON THE EXISTING UTILITY PIPE.
  - IF THE NEW WATER MAIN IN CSA 32 IS ABOVE THE EXISTING UTILITY PIPE AND CLEARANCE IS LESS THAN 12", THE CONTRACTOR SHALL INSTALL A MINIMUM LENGTH OF 20' OF AWWA C-900 CLASS 305 (DR14) PVC WITHOUT JOINTS, CENTERED ON THE EXISTING UTILITY PIPE.
  - FOR BOTH CONDITION B AND C ABOVE, IF THE NEW WATER MAIN IS INSTALLED BELOW THE EXISTING UTILITY PIPE AND CLEARANCE IS LESS THAN 12", A CEMENT SLURRY BACKFILL SHALL BE REQUIRED PER DETAIL 4 ON DRAWING NO. CD2 IN ADDITION TO THE REQUIREMENTS LISTED ABOVE.
- THE NEW WATER MAIN PROFILES SHOWN HEREON INCLUDE VERTICAL GRADE BREAKS THAT SHOULD THEORETICALLY BE POSSIBLE TO MAKE BY MINOR DEFLECTIONS AT PIPE JOINTS. IF CHANGES NEED TO BE MADE TO THE PROFILES DUE TO EXISTING UTILITY CONFLICTS, ADDITIONAL VERTICAL BEND FITTINGS MAY NEED TO BE INSTALLED. HOWEVER, NO CHANGES SHALL BE MADE TO THE PROFILES WITHOUT APPROVAL BY THE ENGINEER.
- COMBINATION AIR VALVES SHALL BE INSTALLED AT ALL HIGH POINTS IN THE PIPE PROFILE, AT THE LOCATIONS SHOWN ON THE PLANS. IF ADDITIONAL HIGH POINTS ARE CREATED DUE TO DEVIATIONS FROM THE DESIGN PROFILES, ADDITIONAL COMBINATION AIR VALVES MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.
- MINIMUM DEPTH OF COVER OVER THE NEW WATER MAINS SHALL BE MAINTAINED AS SPECIFIED ON THE PLANS. ANYWHERE MINIMUM COVER CANNOT BE ACHIEVED, IMPROVED PIPE BEDDING, INCLUDING CONCRETE SLURRY CRADLES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.

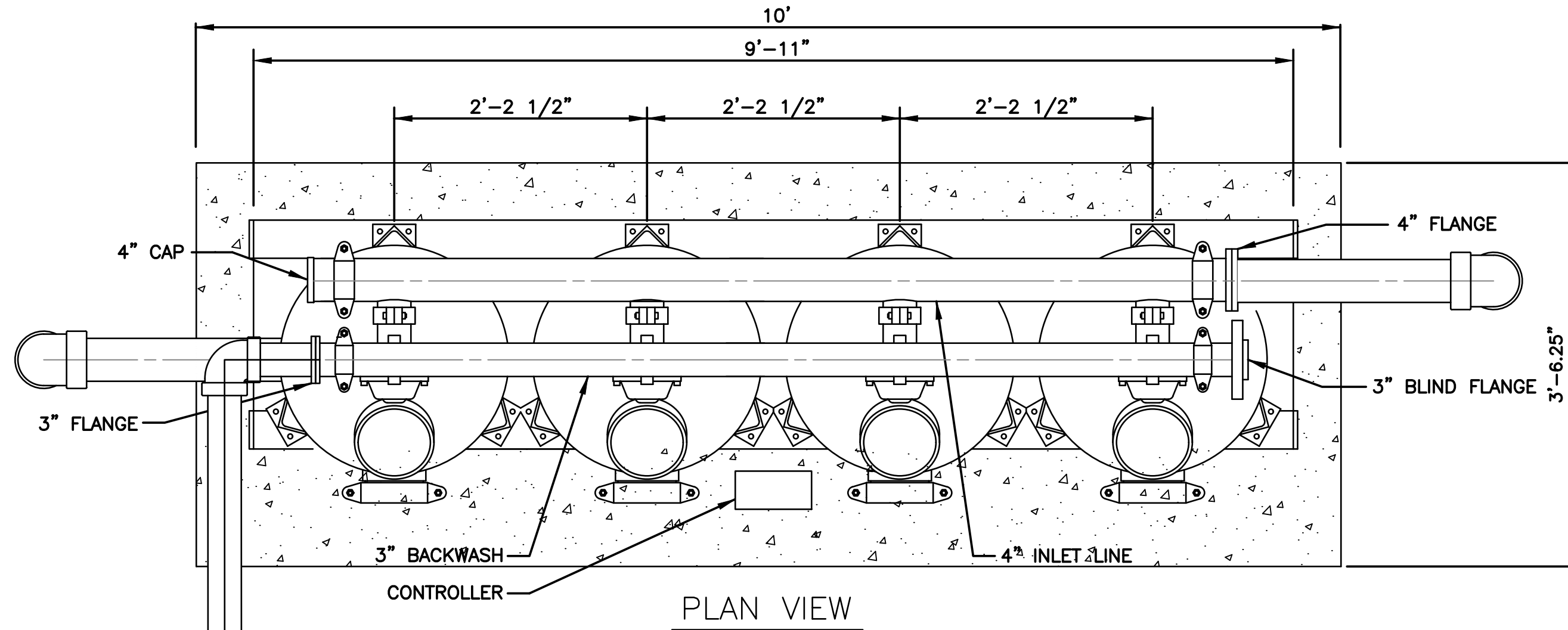
DATE		RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DESIGNED: NDJ, STS	7-27-2023	RESIDENT ENGINEER	DATE			WESTSIDE GROUNDWATER PROJECT		SHEET INDEX & GENERAL NOTES	
DRAWN: PPI	7-27-2023					COUNTY OF FRESNO		GENERAL	
CHECKED: MWK	7-27-2023					ROAD NO. N/A	BRIDGE NO. N/A	DRAWING NO. 2	SHEET NO. G2-2
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				SUPERVISING ENGINEER		DATE		TOTAL 97	



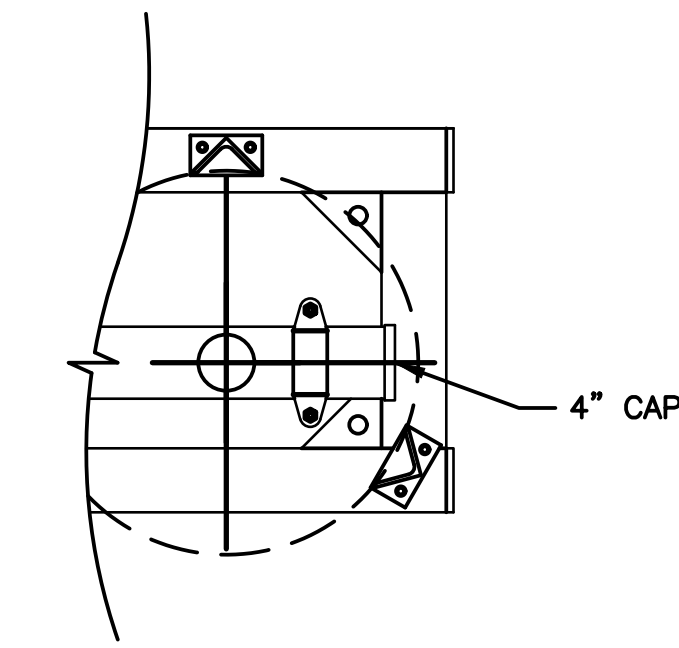




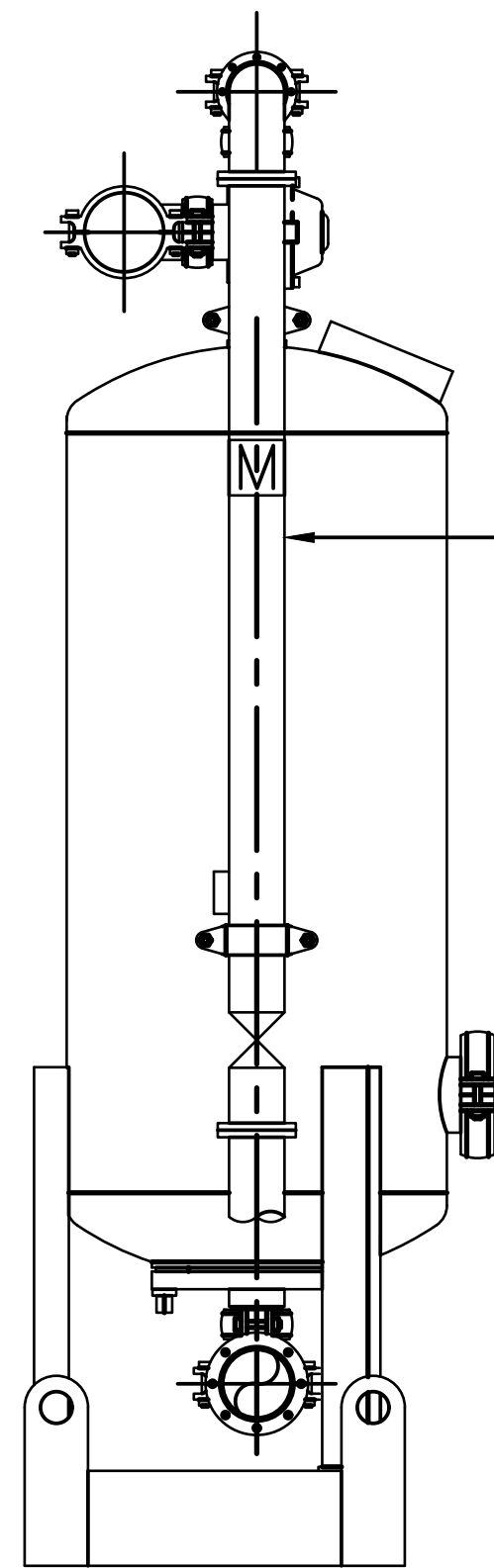
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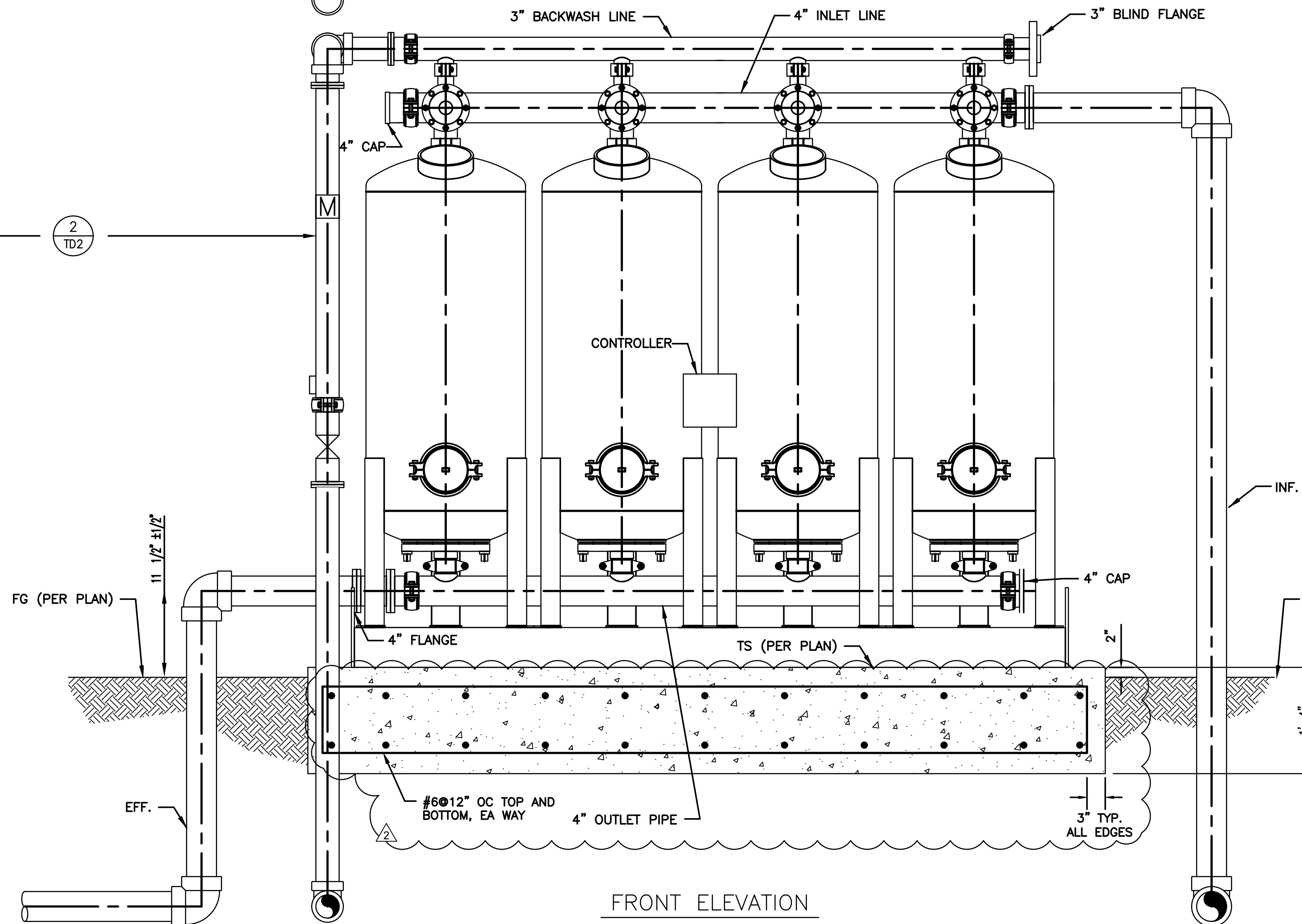
PLAN VIEW



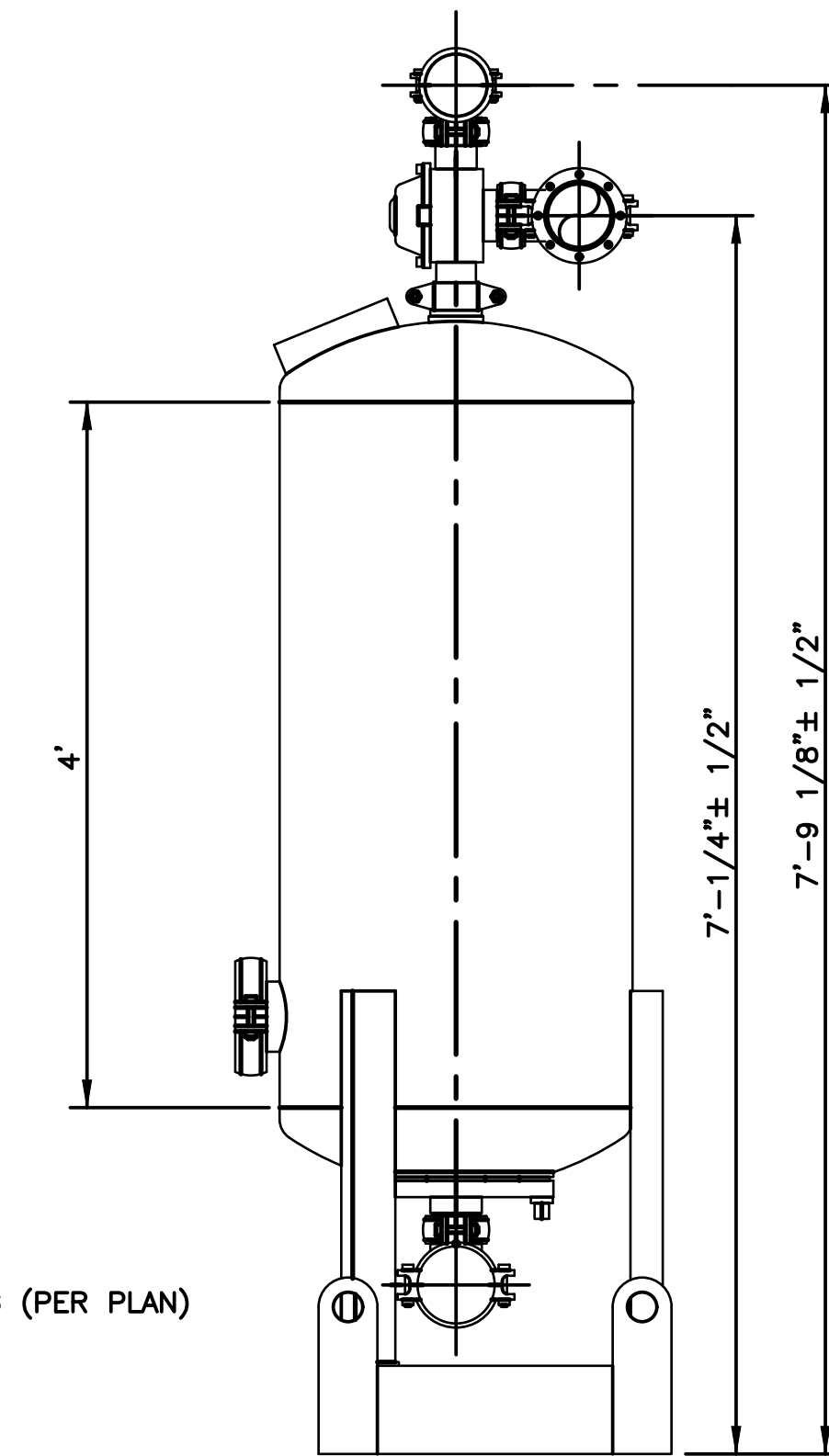
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LEFT END VIEW



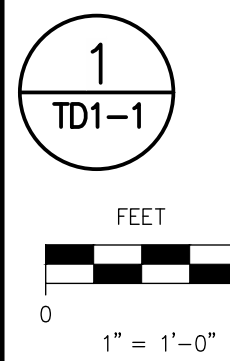
FRONT ELEVATION



RIGHT END VIEW

NOTES

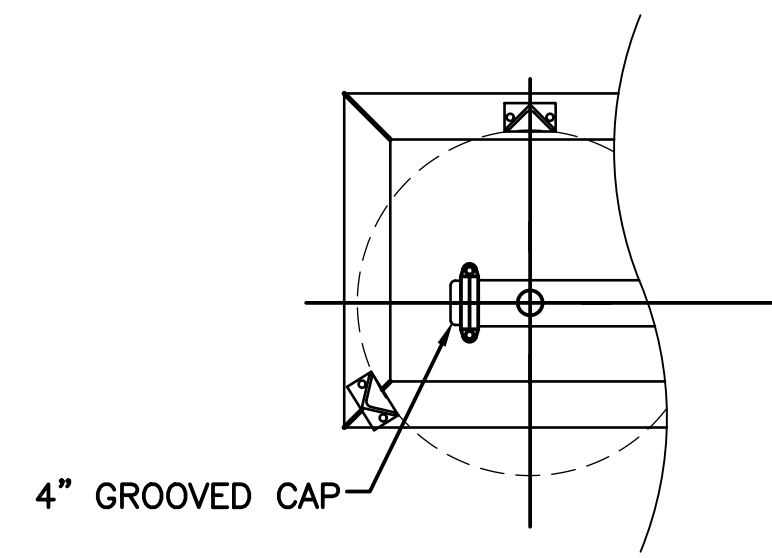
- THIS DESIGN SHOWS THE ATEC MANGANESE TREATMENT SYSTEM CONFIGURATION. CONTRACTOR IS RESPONSIBLE FOR MODIFICATION FOR SUBSTITUTION OF THE MANGANESE TREATMENT SYSTEM.
- FOUR ATEC 24" VESSELS SHALL BE USED FOR THE MANGANESE TREATMENT VESSELS OR EQUIVALENT AS APPROVED BY ENGINEER.
- DIMENSIONS SHOWN FOR REFERENCE. CONTRACTOR SHALL VERIFY WITH TREATMENT SYSTEM VENDOR.
- CONTRACTOR IS RESPONSIBLE FOR ALL WORK NECESSARY TO PROVIDE A FULLY FUNCTIONING TREATMENT SYSTEM AS SHOWN ON THE PLANS AND SPECIFICATIONS.



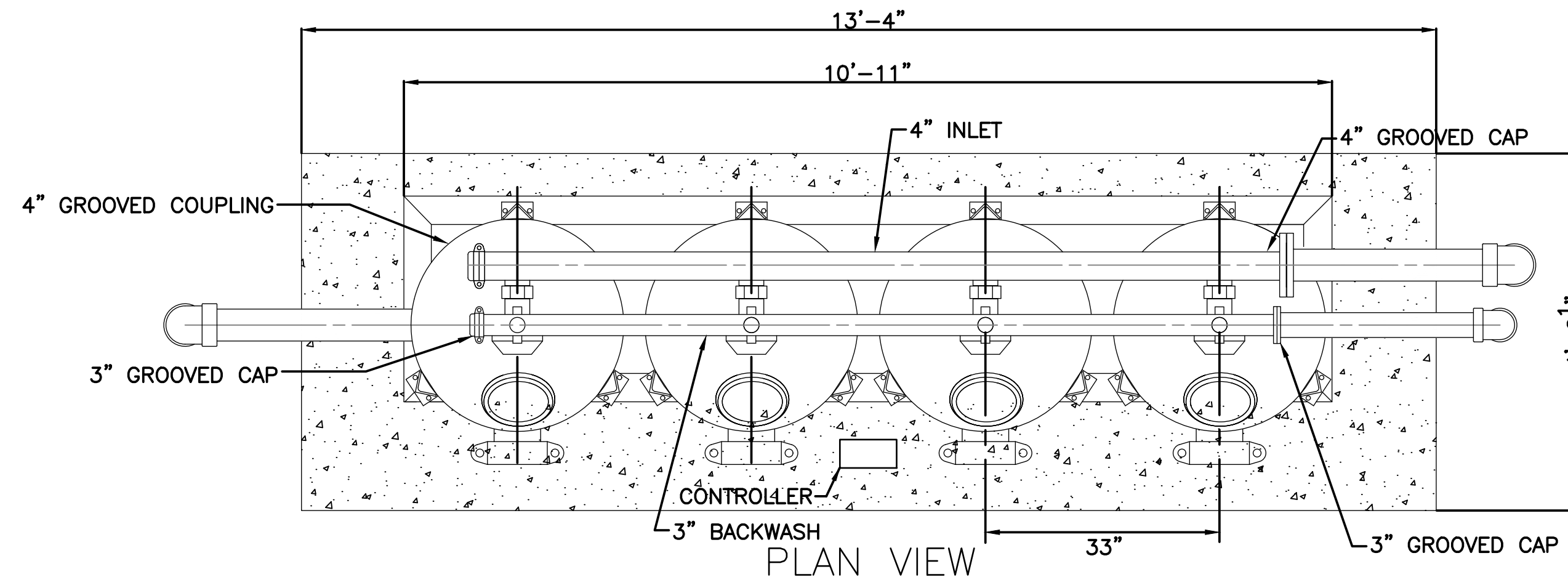
1" = 1'-0"

<b>1</b> TD1-1		<b>RECORD DRAWING</b>		<b>SCALE</b>		<b>PROJECT</b> WESTSIDE GROUNDWATER PROJECT COUNTY OF FRESNO		<b>DEPARTMENT OF PUBLIC WORKS AND PLANNING</b> <b>CSA 30 MANGANESE TREATMENT DETAILS</b>	
DESIGNED: NDJ, STS DRAWN: PPI CHECKED: MWK	DATE 7-27-2023 7-27-2023 7-27-2023	RESIDENT ENGINEER	DATE	SUPERVISING ENGINEER	DATE	ROAD NO. N/A BRIDGE NO. N/A	PHASE 2 ADDENDUM 5 NDJ 11-13-2023	DRAWING NO. 31 SHEET NO. TD1-1 TOTAL 97	COUNTY OF FRESNO

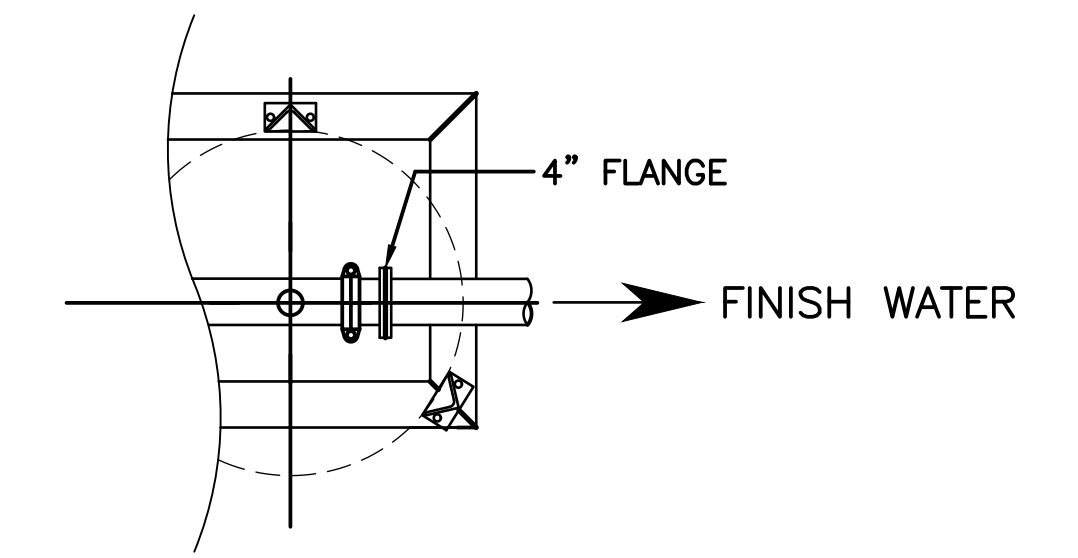
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



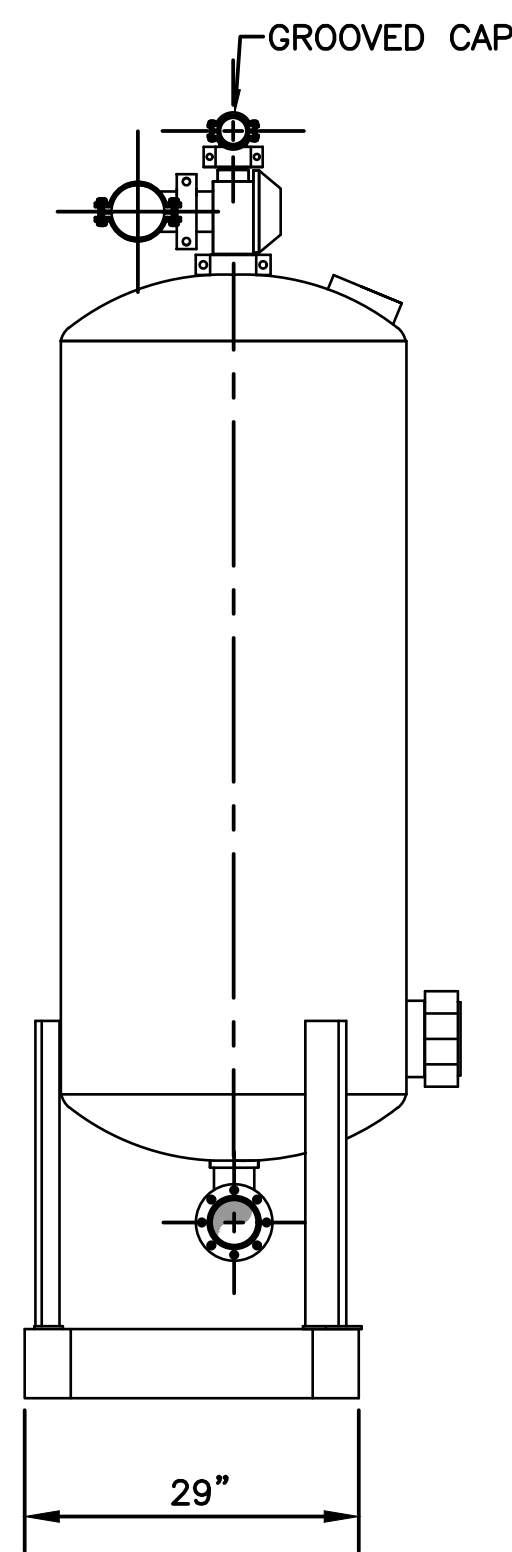
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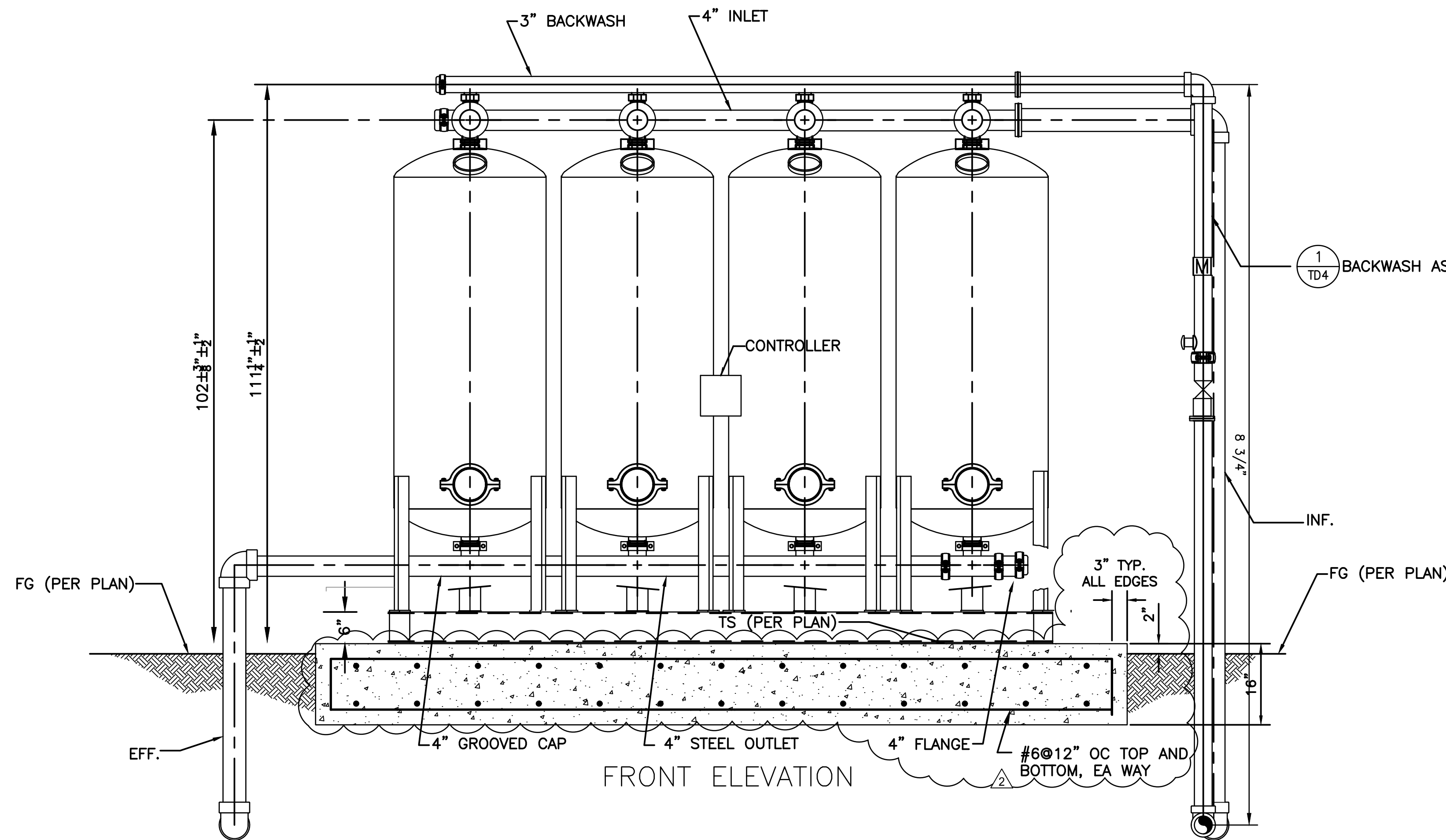
PLAN VIEW



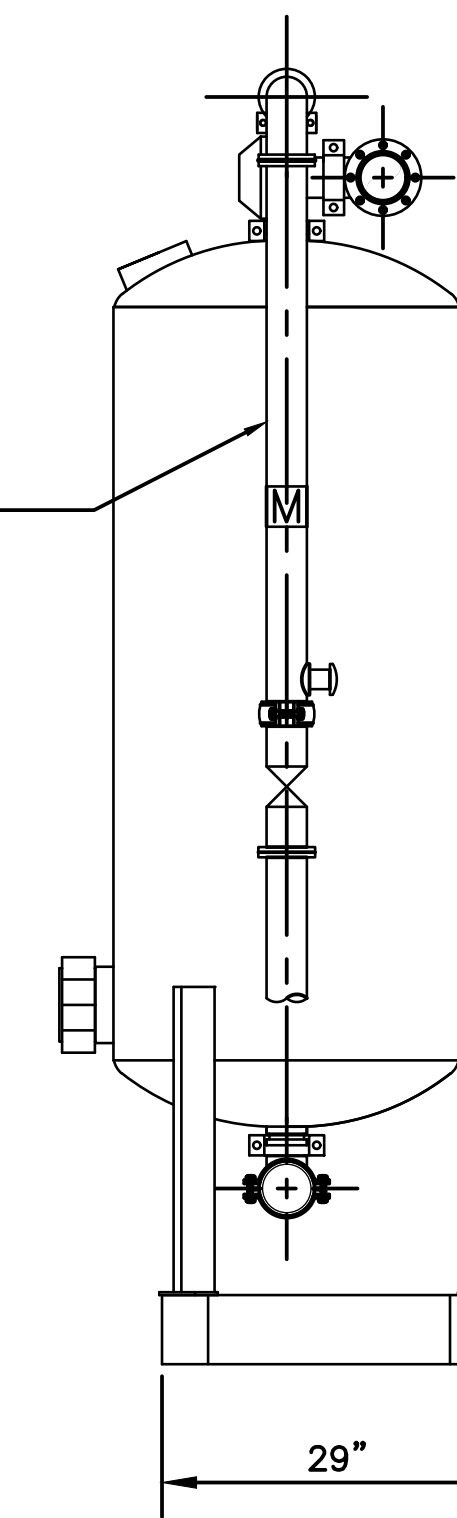
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LEFT ELEVATION



FRONT ELEVATION



RIGHT ELEVATION

NOTES

1. THIS DESIGN SHOWS THE ATEC MANGANESE TREATMENT SYSTEM CONFIGURATION. CONTRACTOR IS RESPONSIBLE FOR MODIFICATION FOR SUBSTITUTION OF THE MANGANESE TREATMENT SYSTEM.
2. FOUR ATEC 30-INCH VESSELS SHALL BE USED FOR THE MANGANESE TREATMENT VESSELS OR EQUIVALENT AS APPROVED BY ENGINEER. SEE SPECIFICATION 43 32 83.
3. DIMENSIONS SHOWN FOR REFERENCE. CONTRACTOR SHALL VERIFY WITH TREATMENT SYSTEM VENDOR.
4. CONTRACTOR IS RESPONSIBLE FOR ALL WORK NECESSARY TO PROVIDE A FULLY FUNCTIONING TREATMENT SYSTEM AS SHOWN ON THE PLANS AND SPECIFICATIONS.

1  
TD3-1

DESIGNED: NDJ, STS DATE: 7-27-2023		RECORD DRAWING RESIDENT ENGINEER		SCALE		PROJECT WESTSIDE GROUNDWATER PROJECT COUNTY OF FRESNO		DEPARTMENT OF PUBLIC WORKS AND PLANNING CSA 32 MANGANESE TREATMENT DETAILS	
DRAWN: PPI DATE: 7-27-2023		DATE		SUPERVISING ENGINEER		ROAD NO. N/A BRIDGE NO. N/A		DRAWING NO. 33 SHEET NO. TD3-1 TOTAL 97	
CHECKED: MWK DATE: 7-27-2023									

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

