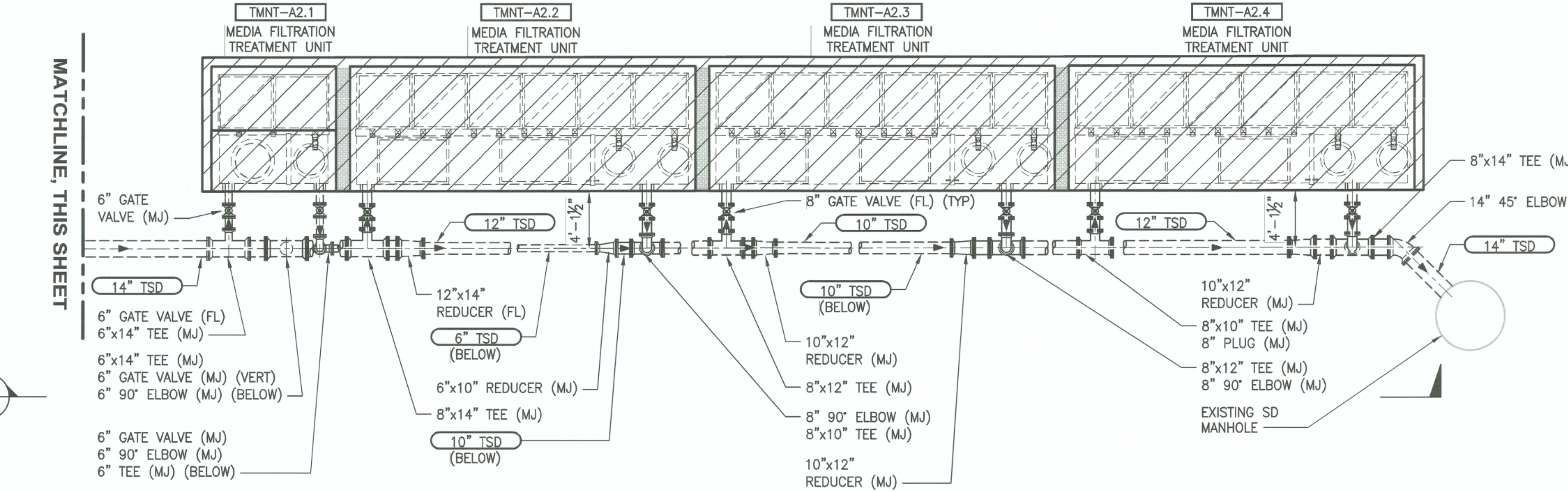


NOTES:

1. CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION
2. INSTALL 36" RCP PIPE, AS REQUIRED, CONNECT TO OWNER-SUPPLIED PRE-CAST WETWELL.
3. INSTALL MIN 8'-0"x18'-0" (INTERIOR DIMENSIONS) OWNER-SUPPLIED PRE-CAST CONCRETE WETWELL AND DUPLEX PUMP STATION, SLOPE WETWELL BOTTOM PER PUMP MANUFACTURER'S RECOMMENDATION. PLAIN-END PIPE STUB OUTS PROVIDED BY OWNER. CONTRACTOR TO FURNISH AND INSTALL CONNECTION TO PLAIN-END PIPE STUBS.
4. INSTALL MIN 6'-0"x8'-0" (INTERIOR DIMENSIONS) OWNER-SUPPLIED PRE-CAST VALVE VAULT. PLAIN-END PIPE STUB OUTS PROVIDED BY OWNER. CONTRACTOR TO FURNISH AND INSTALL CONNECTION TO PLAIN-END PIPE STUBS.
5. INSTALL OWNER-SUPPLIED HYDRODYNAMIC SEPARATOR WITH BYPASS PIPING. SEE STRUCTURAL SHEETS FOR LADDER, AND HANDRAIL DETAILS. STRUCTURAL ITEMS FURNISHED AND INSTALLED BY CONTRACTOR.
6. INSTALL 8'x24' OWNER-SUPPLIED MEDIA FILTRATION TREATMENT UNIT, TYP OF 6. SEE MECHANICAL SHEETS FOR SUBGRADE PREPARATION. SEE STRUCTURAL SHEETS FOR FOUNDATION DESIGN, LADDER, HANDRAIL, AND CHECK PLATE DETAILS. STRUCTURAL ITEMS FURNISHED AND INSTALLED BY CONTRACTOR, SEE TREATMENT UNIT NOTES THIS SHEET.
7. INSTALL 8'x8' OWNER-SUPPLIED MEDIA FILTRATION TREATMENT UNIT, TYP OF 2. SEE MECHANICAL SHEETS FOR SUBGRADE PREPARATION. SEE STRUCTURAL SHEETS FOR FOUNDATION DESIGN, LADDER, HANDRAIL, AND CHECK PLATE DETAILS. STRUCTURAL ITEMS FURNISHED AND INSTALLED BY CONTRACTOR, SEE TREATMENT UNIT NOTES THIS SHEET.
8. CONNECT 36" SD RCP TO EXISTING 36" RCP.
9. NOT ALL PIPE SUPPORTS SHOWN. PROVIDE PIPE SUPPORTS ON ALL PIPING WHERE NECESSARY. SEE LETTER ADJACENT TO SUPPORT FOR TYPE AS DETAILED ON SHEET S10, DETAIL 5.
10. ALL JOINTS AND COUPLINGS SHALL BE RESTRAINED.
11. ALL PIPE PENETRATIONS THROUGH WALLS AND SLABS REQUIRE MODULAR MECHANICAL SEALS.
12. ALL HATCHES FOR BASIN A MUST BE AIRPORT RATED FOR THE LOADING DETAILED WITHIN THE SPECIFICATIONS. ALL HATCH DIMENSIONS SHOWN OR CALLED OUT ARE DIMENSIONS FOR MINIMUM CLEAR OPENINGS. HATCHES ARE OWNER-SUPPLIED.
13. ALL BURIED VALVES SHALL BE PROVIDED WITH VALVE STEM EXTENSIONS, CASING TUBES, AND 2" SQUARE NUT WITH POSITION INDICATOR. SEE DETAIL 1, SHEET M10.
14. FIVE AREAS TO RECEIVE HEAT TRACING, INSULATION, AND JACKETING TO BE APPLIED TO PIPES INDICATED WITH HATCHING. SEE ELECTRICAL FOR CIRCUITING AND CONTROLLER INFORMATION AND SCOPE DELINEATION.

MATCHLINE, THIS SHEET



TREATMENT UNIT NOTES:

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE TREATMENT UNITS AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS.
- UNIT MUST BE INSTALLED ON LEVEL BASE.
- ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. PIPE PENETRATIONS ARE OWNER-SUPPLIED.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR RESPONSIBLE FOR CONTACTING MEDIA FILTRATION SUPPLIER FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A MODULAR WETLANDS REPRESENTATIVE.

LEGEND:

- EXTENT OF OWNER-SUPPLIED MATERIALS. COORDINATE WITH OWNER AND SUPPLIERS FOR DELIVERY, INSTALLATION, AND COMMISSIONING REQUIREMENTS. SEE NOTES THIS SHEET FOR ADDITIONAL SCOPE DELINEATION DETAILS
- HEAT TRACE
- PIPE SUPPORT TYPE

MATCHLINE, THIS SHEET

 Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206) 383-5841	 Parametrix ENGINEERING - PLANNING - ENVIRONMENTAL SCIENCES 60 WASHINGTON AVENUE, SUITE 390 SEASIDE, WA 98138 P 360.377.0014 WWW.PARAMETRIX.COM	BY: DP	DATE: 5-16-18
		REVISION: 4	APP: JM
		MARK: 1 ADDENDUM 4	
		MAY 16, 2018	
JSL APR 2018 CHECKED BY: JEM DATE: APR 2018		PROJECT: ENGINEERING DATE: APR 2018 PRINTED BY: peterson DATE: MAY 16, 2018	
DIRECTOR: ONE SITCUM PLAZA PORT ADDRESS: TACOMA, WA 98401-1837		TOWNSHIP: 21N RANGE: 3E SECTION: 33 & 34 DAT-HRZ: WA83-S VERT: MLW PARCEL: SEE G02 DRAWING SCALE: AS NOTED	
WEST SITCUM STORMWATER TREATMENT MECHANICAL PLAN - BASIN A		6583 M01 SH 28 OF 47 COM/CONS: 070664 M. ID: 201024.01 PHASE: BID SET	