THE TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
TULALIP, WASHINGTON

VOLUME 2 - CONSTRUCTION DRAWINGS
JUNE 2026

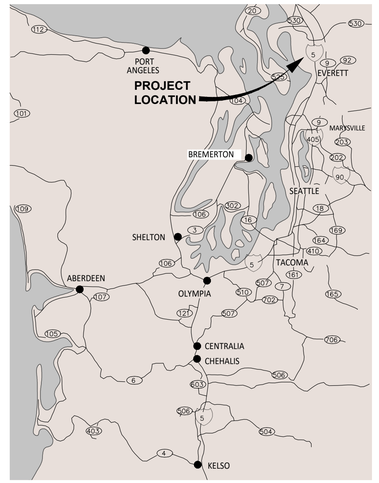
PRE-FINAL DESIGN SUBMTIIAL

Exhibit E.1

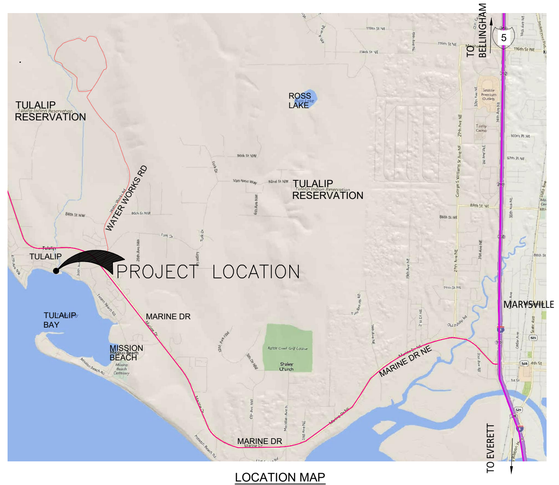
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VICINITY MAP



LOCATION MAP

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

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TULALIP TRIBES

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TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

PROJECT LOCATION AND VICINITY MAPS AND DRAWING INDEX

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING

G-2

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ABBREVIATIONS

AC	ASPHALT
ALUM	ALUMINIUM
APPROX	APPROXIMATE
AVAR	AIR VACUUM/AIR RELEASE
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICE
BOL	BOLLARD
CB	CATCH BASIN
CJ	CONSTRUCTION JOINT
CL	CENTERLINE
CLR	CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CLW	CLEANING WATER
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
COTG	CLEANOUT TO GRADE
CP	CONTROL POINT
CFS	CUBIC FEET PER SECOND
CV	CHECK VALVE
CHWS	CHILLED WATER SUPPLY
CSBC	CRUSHED SURFACING BASE COARSE
CSTC	CRUSHED SURFACING TOP COARSE
DI	DUCTILE IRON
DF	DOUBLE FLANGE/ DRUM FILTER
DIA	DIAMETER
DO	DISSOLVED OXYGEN
DP	DIFFERENTIAL PRESSURE
DR	DRAIN
EA	EACH
ECC	ECCENTRIC
EF	EAST FORK
EFA	EACH FACE
EW	EACH WAY
EHH	ELECTRICAL HAND HOLE
EG	EXISTING GROUND
EMBED	EMBEDMENT
EL	ELEVATION
ES	EXCLUSION SCREEN
ESC	EROSION AND SEDIMENT CONTROL
EQN	EQUATION
EXIST	EXISTING
F	FLANGE
FDN	FOUNDATION
FF	FINISH FLOOR
FH	FIRE HYDRANT
FIG	FIG
FLEX	FLEXIBLE
FM	FLOW METER
FPT	FEMALE PIPE THREAD
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET
FTG	FOOTING
FTR	FISH TRANSFER
FS	FORMALIN SUPPLY
G	GATE
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BREAK
GPM	GALLON PER MINUTE
GS	GAS SERVICE
H	HEIGHT
HB	HOSE BIB
HDPE	HIGH DENSITY POLYETHLENE
HORZ/HORIZ	HORIZONTAL
HMA	HOT MIX ASPHALT
HSS	HOLLOW STRUCTURAL SECTION
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
HP	HORSEPOWER
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
LB	POUND
LCR	LOWER RACEWAY
LG	LONG
LHO	LOW HEAD OXYGENATOR
LIT	LEVEL INDICATING TRANSMITTER
LOX	LIQUID OXYGEN
MIN	MINIMUM
MFR	MANUFACTURER
MJ	MECHANICAL JOINT
MP	MEDIUM PRESSURE
MPH	MILES PER HOUR
NIC	NOT IN CONTACT
NWL	NORMAL WATER LEVEL
NO	NUMBER
NTU	NEPHELOMETRIC TURBIDITY UNIT
N/A	NOT APPLICABLE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFL	OVERFLOW
OP	OVERHEAD POWER
P	PUMP
PC	POINT OF CURVATURE
PG	PRESSURE GAUGE
PL	PLATE
PO	POST
PCA	PACKED COLUMN AERATOR
PI	POINT OF INFLECTION
PP	POWER POLE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PTFE	POLYTETRAFLUROETHYLENE
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
PW	POTABLE WATER PIPELINE
R	REUSE
RB	ROUND BAR
RD	ROAD
REINF	REINFROCEMENT
REQ	REQUIRED
RPS	REUSE PUMP STATION
RW	REUSE WATER
S	SLOPE
SCH	SCHEDULE
SHT	SHEET
SF	SCREEN FILTER
SIM	SIMILAR
SQ	SQUARE
SS	STAINLESS STEEL
SSMH	STORM SEWER MANHOLE
STA	STATION
STD	STANDARD
STRUC	STRUCTURE
SW	SURFACE WATER
TC	TOP OF CURB
TDH	TOTAL DISCHARGE HEAD
TF	TAIL FLUME
THK	THICK
TOC	TOP OF CONCRETE
TOG	TOP OF GRATING
T&B	TOP AND BOTTOM
TW	TOP OF WALL
TYP	TYPICAL
UCR	UPPER RACEWAY
UD	UNDERDRAIN
UNO	UNLESS NOTHED OTHERWISE
UTIL	UTILITY
µ	MICRON
UV	ULTRAVIOLET
UW	UTILITY WATER
VIP	VERTICAL INFLECTION POINT
VERT	VERTICAL
VLT	VAULT
WF	WEST FORK
WM	WATER METER
WS	WATERSTOP
WSE	WATER SURFACE ELEVATION
W/	WITH
W	WIDTH
WW	WELL WATER PIPELINE

VALVES

- HAND / MANUAL OPERATOR (ALSO SHOWN AS NO OPERATOR)
- AIR VACUUM, AIR RELEASE, OR AIR VACUUM AND AIR RELEASE ASSEMBLY
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- VALVE NORMALLY OPEN
- VALVE NORMALLY CLOSED

GATES

- SLIDE GATE (CAST IRON, ALUMINUM OR STAINLESS STEEL)

FLOW MEASUREMENT INSTRUMENTS

- DISPLACEMENT FLOWMETER
- FM — MAGNETIC FLOWMETER

PIPE ENDS (SINGLE - LINE)

- REDUCER - CONCENTRIC
- MAGNETIC FLOWMETER

BURIED PIPING (SINGLE - LINE)

- —WS—WS— SURFACE WATER (WEST FORK/EAST FORK)
- —D—D— DRAIN
- —RW—RW— REUSE WATER
- —CLW—CLW— CLEANING WATER
- —DWS—DWS— DOMESTIC WATER (CHLORINATED)
- —UW—UW— UTILITY WATER

LEGEND

- SURVEY CONTROL POINT
- MONUMENT
- SOIL BORING

GENERAL SYMBOLOGY

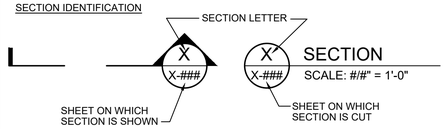
- NEW CONSTRUCTION
- EXISTING (SCREENED)
- FUTURE (PHANTOM)
- EXISTING TO BE REMOVED OR DEMOLISHED
- HORIZONTAL CONTROL POINT

MATERIAL SYMBOLOGY

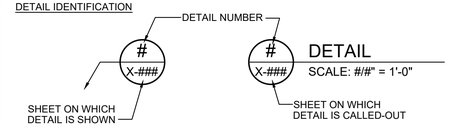
- CONCRETE (PLAN AND SECTION)
- GROUT OR SAND (PLAN AND SECTION)
- STEEL/METAL/FRP (SMALL SCALE SECTION)
- GRATING (PLAN)
- GRATING OR SOLID FRP GRATING (SECTION)
- RAILING (PLAN)
- LUMBER/FRAMING - NOMINAL
- FINISHED GRADE
- GRAVEL/DRAINROCK/AGGREGATE BASE, NEW
- GRAVEL SURFACING, EXISTING
- ASPHALT SURFACING, EXISTING
- ASPHALT SURFACING, NEW
- RAILING (PLAN)
- MATURE TREE
- CATCH BASIN
- LIGHT FIXTURE
- ELECTRICAL/UTILITY VAULT
- X — CHAIN LINK FENCE
- DRAINAGE SWALE

REFERENCE SYMBOLS

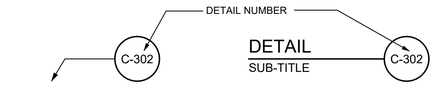
SECTION IDENTIFICATION



DETAIL IDENTIFICATION

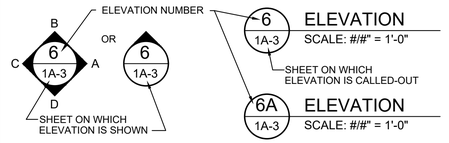


STANDARD DETAIL IDENTIFICATION

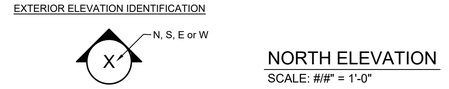


STANDARD DETAILS ARE LOCATED ON DISCIPLINE GENERAL SHEETS, IN NUMERICAL ORDER

INTERIOR ELEVATION IDENTIFICATION

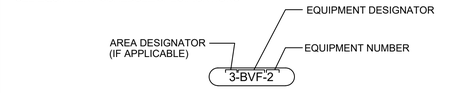


EXTERIOR ELEVATION IDENTIFICATION



EQUIPMENT IDENTIFICATION

SEE EQUIPMENT SCHEDULE/SPECIFICATIONS



PLEASE NOTE:

DISCIPLINE SPECIFIC SYMBOLS ARE SHOWN ON THE DISCIPLINE GENERAL DRAWINGS.

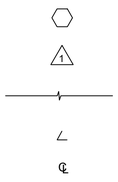
FOR WELDING SYMBOLS USE AMERICAN WELDING SOCIETY STANDARD SYMBOLS.

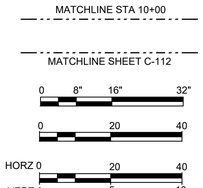


NORTH ARROW SYMBOLS



MISCELLANEOUS





REV 050215

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

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TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SYMBOLS AND ABBREVIATIONS

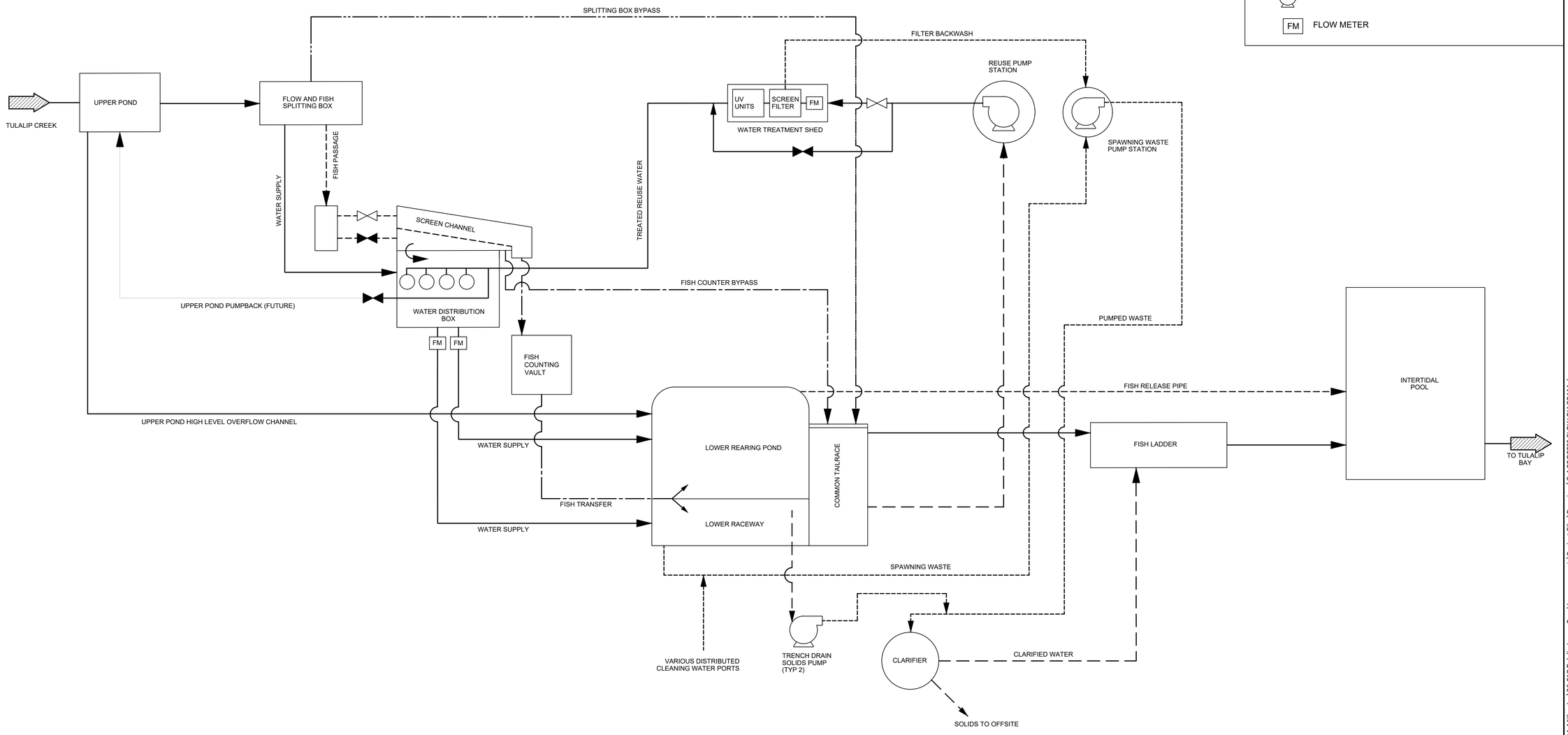
DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
G-3

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LEGEND

- WATER SUPPLY, SURFACE WATER
- DRAIN
- FISH BYPASS
- CLEANING WASTE
- SPLITTING BOX BYPASS
- FLOW DIRECTION
- VALVE, NORMALLY OPEN
- VALVE, NORMALLY CLOSED
- PUMP
- FM — FLOW METER



REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
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WARNING

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

PROCESS FLOW DIAGRAM

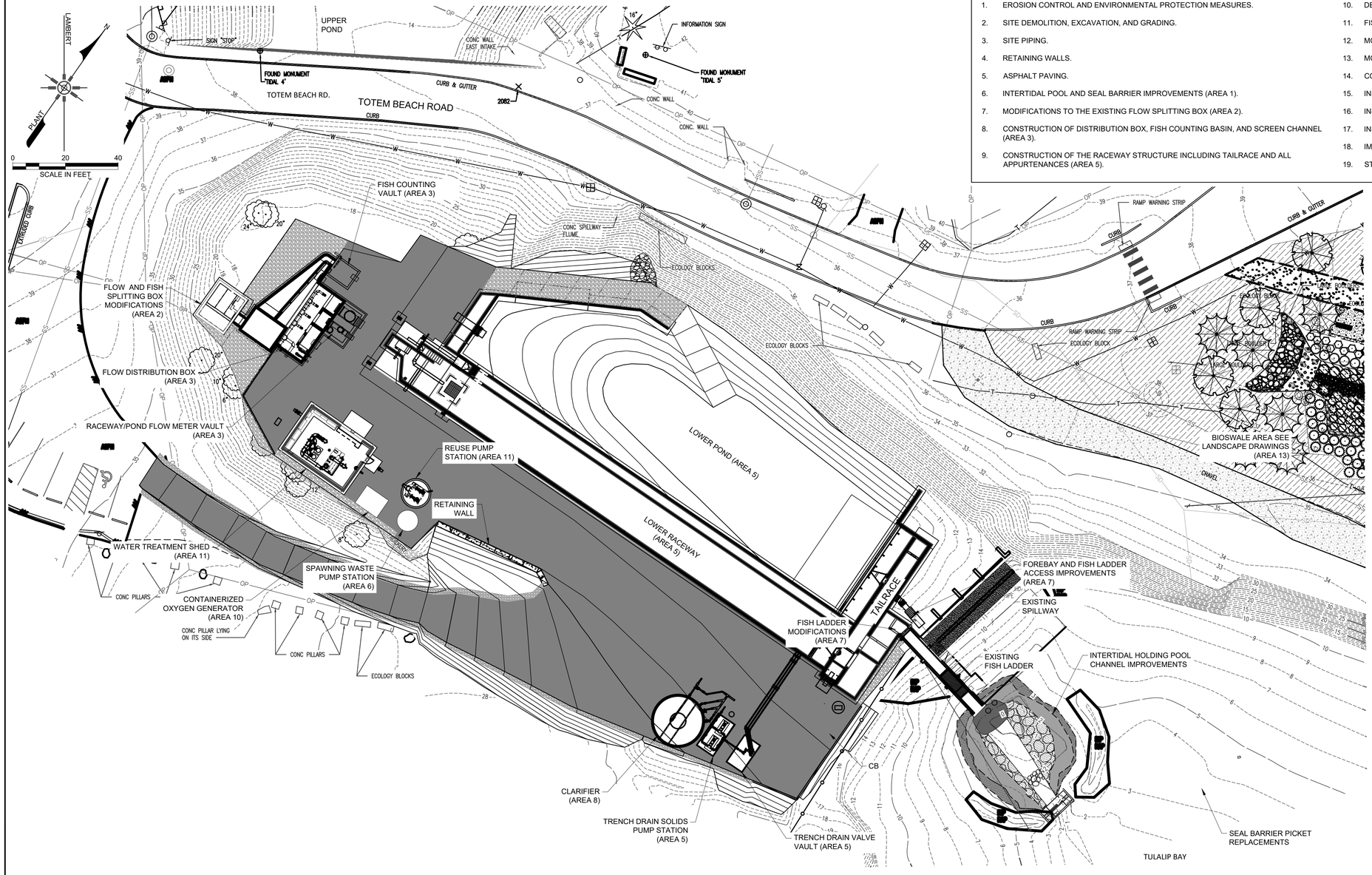
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G-4

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PROJECT CONSISTS OF THE FOLLOWING

1. EROSION CONTROL AND ENVIRONMENTAL PROTECTION MEASURES.
2. SITE DEMOLITION, EXCAVATION, AND GRADING.
3. SITE PIPING.
4. RETAINING WALLS.
5. ASPHALT PAVING.
6. INTERTIDAL POOL AND SEAL BARRIER IMPROVEMENTS (AREA 1).
7. MODIFICATIONS TO THE EXISTING FLOW SPLITTING BOX (AREA 2).
8. CONSTRUCTION OF DISTRIBUTION BOX, FISH COUNTING BASIN, AND SCREEN CHANNEL (AREA 3).
9. CONSTRUCTION OF THE RACEWAY STRUCTURE INCLUDING TAILRACE AND ALL APPURTENANCES (AREA 5).
10. DESIGN AND CONSTRUCTION OF A WASTE REMOVAL PUMP STATION (AREA 6)
11. FISH LADDER ACCESS IMPROVEMENTS (AREA 7)
12. MODIFICATIONS TO THE EXISTING FISH LADDER AND FISH RELEASE PIPE (AREA 7).
13. MODIFICATIONS TO THE EXISTING LOWER DAM FOREBAY (AREA 7)
14. CONSTRUCTION OF A WASTEWATER CLARIFIER (AREA 8).
15. INSTALLATION OF A UTILITY WATER SYSTEM AND TRUCK FILL STATION (AREA 9)
16. INSTALLATION OF A CONTAINERIZED OXYGEN GENERATOR SYSTEM (AREA 10).
17. INSTALLATION OF A WATER TREATMENT SHED AND PUMPS STATION (AREA 11).
18. IMPROVEMENTS TO THE INTERTIDAL POOL AND SEAL BARRIER (AREA 13).
19. STORMWATER BIOSWALE (AREA 13).



PROJECT IMPROVEMENTS PLAN

SCALE: 1" = 20'

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

PROJECT IMPROVEMENTS PLAN

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
G-5

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PUMP SCHEDULE

PUMP NO	DESCRIPTION	LOCATION	SERVICE	TYPE	STATIC LIFT	FLOW (GPM) @ TDH (FT)	HP	VOLTAGE/PHASE	REMARKS
3-P-1	UTILITY WATER PUMP	DISTRIBUTION BOX	RAW WATER	SUBMERSIBLE	10	120@46	5.0	480/3	
3-P-2	TRUCK FILL PUMP	DISTRIBUTION BOX	RAW WATER	SUBMERSIBLE	10	400 @ 46	11.0	480/3	
5-P-1	REUSE PUMP 1	LOWER POND TAILRACE 5M	TAILRACE WATER REUSE	SUBMERSIBLE NON-CLOG PUMP	29.5	2,250 @ 100	100	480/3	VARIABLE SPEED
5-P-2	REUSE PUMP 2	LOWER POND TAILRACE 5M	TAILRACE WATER REUSE	SUBMERSIBLE NON-CLOG PUMP	29.5	2,250 @ 100	100	480/3	VARIABLE SPEED
5-P-3	LOWER POND TRENCH DRAIN SOLIDS PUMP 1	LOWER POND TAILRACE 5M	POND/RACEWAY 1% SOLIDS	ROTARY LOBE OR SCREW CENTRIFUGAL	35	125 @ 40	5	480/3	
5-P-4	LOWER POND TRENCH DRAIN SOLIDS PUMP 2	LOWER POND TAILRACE 5M	POND/RACEWAY 1% SOLIDS	ROTARY LOBE OR SCREW CENTRIFUGAL	35	125 @ 40	5	480/3	
6-P-1	SPAWNING WASTE PUMP 1	SORTING AREA 5M	SPAWNING WASTE SOLIDS	SUBMERSIBLE NON-CLOG PUMP	25.5	200 @ 30	2	208/3	
6-P-2	SPAWNING WASTE PUMP 2	SORTING AREA 5M	SPAWNING WASTE SOLIDS	SUBMERSIBLE NON-CLOG PUMP	25.5	200 @ 30	2	208/3	

FLOW METER SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	LOCATION	TYPE	SIZE	CAPACITY	COMMENTS
FIT-101	LOWER POND SUPPLY FLOW METER	DISTRIBUTION BOX	ELECTROMAGNETIC, SUBMERSIBLE	36-INCH	9,000 GPM	REMOTE MOUNTED TRANSMITTER, 30-FT CABLE, SUBMERSION RATED
FIT-102	LOWER RACEWAY SUPPLY FLOW METER	DISTRIBUTION BOX	ELECTROMAGNETIC, SUBMERSIBLE	18-INCH	2,250 GPM	REMOTE MOUNTED TRANSMITTER, 30-FT CABLE, SUBMERSION RATED
FIT-105	REUSE WATER FLOW METER	FILTRATION AND UV TREATMENT BLDG	ELECTROMAGNETIC, IN-LINE	10-INCH	2,300 GPM	REMOTE MOUNTED TRANSMITTER, 30-FT CABLE, SUBMERSION RATED

MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	LOCATION	SHEET	SERVICE	TYPE	CAPACITY	VOLTAGE/PHASE	SPECIFICATION	REMARKS
PAC-1	DISTRIBUTION BOX	3M-3	POND/RACEWAY EFFLUENT	PACKED COLUMN AERATOR	550 GPM	N/A	46 41 83	
PAC-2	DISTRIBUTION BOX	3M-3	POND/RACEWAY EFFLUENT	PACKED COLUMN AERATOR	550 GPM	N/A	46 41 83	
PAC-3	DISTRIBUTION BOX	3M-3	POND/RACEWAY EFFLUENT	PACKED COLUMN AERATOR	550 GPM	N/A	46 41 83	
PAC-4	DISTRIBUTION BOX	3M-3	POND/RACEWAY EFFLUENT	PACKED COLUMN AERATOR	550 GPM	N/A	46 41 83	
MBD-1	DISTRIBUTION BOX	3M-3	OXYGEN	MICRO BUBBLE DIFFUSER	12 Lpm, 36 Lpm @ 50 psi max	N/A	N/A	PENTAIR POINT FOUR MODEL 1DMBC120
MBD-2	DISTRIBUTION BOX	3M-3	OXYGEN	MICRO BUBBLE DIFFUSER	12 Lpm, 36 Lpm @ 50 psi max	N/A	N/A	PENTAIR POINT FOUR MODEL 1DMBC120
O2-1	DISTRIBUTION BOX	3M-3	OXYGEN	DISSOLVED OXYGEN SENSOR AND TRANSMITTER	0-20 ppm	120VAC/1 Phase	40 91 12	SENSOR AND TRANSMITTER
O2GEN	OXYGEN GENERATOR CONTAINER	10M-1	AIR	OXYGEN GENERATOR	60 Lpm, 113 kg/day	460V/3 Phase 60Hz	46 21 80	CONTROL PANELS, IF SEPARATE, TO BE 120V/1 Phase 60Hz
FT-1	INTERMEDIATE RACEWAYS FISH BASIN	4M-1	JUVENILE FISH PASSAGE	FRP FISH COUNTER HOLDING TROUGH	N/A	N/A	46 99 10	CONNECTS UPSTREAM OF FISH COUNTERS
FC-1	INTERMEDIATE RACEWAYS FISH BASIN	4M-1	JUVENILE FISH PASSAGE	FISH COUNTER	4 tons/hour	110VAC/1 Phase	46 99 10	
ME-1	LOWER POND SPAWNING SHED	5M-1	CARCASS REMOVAL	FISH BUCKET CONVEYOR/CARCASS ELEVATOR	40-60 fish/minute	480V/3 Phase	46 99 20	
ME-2	NORTH LOWER RACEWAY CROWDER	5M-1	DRIVEN CROWDER SCREEN	ELECTRIC MOTOR	7.5 HP	24VDC	46 99 00	TO BE SIZED BY CROWDER MANUFACTURER
ME-3	LOWER POND CROWDER	5M-1	DRIVEN CROWDER SCREEN	ELECTRIC MOTOR	20 HP	24VDC	46 99 00	TO BE SIZED BY CROWDER MANUFACTURER
ME-4	SOUTH LOWER RACEWAY CROWDER	5M-1	DRIVEN CROWDER SCREEN	ELECTRIC MOTOR	7.5 HP	24VDC	46 99 00	TO BE SIZED BY CROWDER MANUFACTURER
ME-5	LOWER POND TAILRACE	5M-3	NORTH RACEWAY WATER LEVEL	WIRE ROPE WINCH DRIVEN	750 lb	115V/1 Phase	43 52 10	SWINGING STANDPIPE HOIST - ELECTRIC WITH SWITCH EXTENSION HORIZONTAL ORIENTATION
ME-6	LOWER POND TAILRACE	5M-3	SOUTH RACEWAY WATER LEVEL	WIRE ROPE WINCH DRIVEN	750 lb	115V/1 Phase	43 52 10	SWINGING STANDPIPE HOIST - ELECTRIC WITH SWITCH EXTENSION HORIZONTAL ORIENTATION
ME-7A	LOWER POND TAILRACE	5M-3	LOWER POND WATER LEVEL	WIRE ROPE WINCH DRIVEN	750 lb	115V/1 Phase	43 52 10	SWINGING STANDPIPE HOIST - ELECTRIC WITH SWITCH EXTENSION HORIZONTAL ORIENTATION
ME-7B	LOWER POND TAILRACE	5M-3	LOWER POND WATER LEVEL	WIRE ROPE WINCH DRIVEN	750 lb	115V/1 Phase	43 52 10	SWINGING STANDPIPE HOIST - ELECTRIC WITH SWITCH EXTENSION HORIZONTAL ORIENTATION
ME-8	FISH LADDER/LOWER POND TAILRACE	7M-1/5M-3	LIFTING	DAVIT CRANE	750 lb	N/A	43 52 10	STAINLESS STEEL HOIST/ 1/4" SS ROPE
ME-9	LOWER RACEWAY CROWDER	5M-12	CROWDER SCREEN LIFT	ELECTRIC LINEAR ACTUATOR	N/A	24VDC	46 99 00	SCREEN LIFT ROPE PULLEY SYSTEM, PROVIDED AS PART OF CROWDER SUPPLY PACKAGE
ME-10	LOWER RACEWAY CROWDER	5M-12	CROWDER SCREEN LIFT	ELECTRIC LINEAR ACTUATOR	N/A	24VDC	46 99 00	SCREEN LIFT ROPE PULLEY SYSTEM, PROVIDED AS PART OF CROWDER SUPPLY PACKAGE
ME-12	LOWER POND AND RACEWAYS DRAIN END	5M-3	ADULT FISH PASSAGE	VEE TRAP	N/A	N/A	05 50 00	FABRICATED
ME-13	LOWER POND AND RACEWAYS DRAIN END	5M-3	ADULT FISH PASSAGE	VEE TRAP	N/A	N/A	05 50 00	FABRICATED
ME-14	LOWER POND AND RACEWAYS DRAIN END	5M-3	ADULT FISH PASSAGE	VEE TRAP	N/A	N/A	05 50 00	FABRICATED
ME-15	LOWER POND AND RACEWAYS DRAIN END	5M-1	SCREEN LIFT	MONORAIL WITH WIRE ROPE HOIST	500 LB	N/A	43 52 04	MANUAL MOVEMENT, MANUAL HOIST
MS-1	LOWER RACEWAY CROWDER SCRAPER LEAF	5M-10	CROWDER SCRAPER LIFT	ELECTRIC MOTOR				
MS-2A	LOWER POND CROWDER SCRAPER LEAF	5M-13	CROWDER SCRAPER LIFT	ELECTRIC MOTOR				
MS-2B	LOWER POND CROWDER SCRAPER LEAF	5M-13	CROWDER SCRAPER LIFT	ELECTRIC MOTOR				
MS-2C	LOWER POND CROWDER SCRAPER LEAF	5M-13	CROWDER SCRAPER LIFT	ELECTRIC MOTOR				
MS-3	LOWER RACEWAY CROWDER SCRAPER LEAF	5M-10	CROWDER SCRAPER LIFT	ELECTRIC MOTOR				
SF-1	WATER TREATMENT SHED	11M-1	REUSE WATER	SCREEN FILTER SKID	2250 GPM	110/220VAC/24VDC	46 21 34	LOW PRESSURE, 40 MICRON
UV-1	WATER TREATMENT SHED	11M-1	REUSE WATER	CLOSED-VESSEL UV REACTOR	2250 GPM	480V/3 Phase	46 66 63	LOW PRESSURE, 130 MJ/CM^2
UV-2	WATER TREATMENT SHED	11M-1	REUSE WATER	CLOSED-VESSEL UV REACTOR	2250 GPM	480V/3 Phase	46 66 63	LOSW PRESSURE, 130 MJ/CM^2

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

EQUIPMENT SCHEDULES - I

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
G-6

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GATE SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	LOCATION	MATERIAL	TYPE	SIZE (W x H)	OPERATOR	SEATING HEAD	UNSEATING HEAD	REMARKS
2-G-1	DISTRIBUTION BOX SUPPLY	FLOW SPLITTING BOX	ALUMINUM	WEIR	36" X 36"	MANUAL, HAND CRANK	10'	5'	DOWNWARD OPENING WEIR GATE, 36" TRAVEL
3-G-1	FISH PASSAGE GATE	SCREEN CHAMBER	ALUMINUM	SLIDE	42" X 72"	MANUAL, HAND CRANK	8'	6'	FLUSH MOUNT
3-G-2	FISH COUNTING VAULT BYPASS	SCREEN CHAMBER	ALUMINUM	SLIDE	42" X 72"	MANUAL, HAND CRANK	8'	6'	FLUSH MOUNT
3-G-3	BYPASS TO TAILRACE	SCREEN CHAMBER	ALUMINUM	SLIDE	36" X 36"	MANUAL, HAND CRANK	5'	0'	FLUSH MOUNT
3-G-4	LOWER POND SUPPLY GATE	DISTRIBUTION BOX	ALUMINUM	SLIDE	36" X 36"	MANUAL, HAND CRANK	10'	5'	NON SELF-CONTAINED, FLUSH MOUNT, 36" TRAVEL FROM INV EL
3-G-5	SOUTH LOWER RACEWAY SUPPLY GATE	DISTRIBUTION BOX	ALUMINUM	SLIDE	18" X 18"	MANUAL, HAND CRANK	10'	5'	NON SELF-CONTAINED, FLUSH MOUNT, 18" TRAVEL FROM INV EL
3-G-6	DRAIN GATE	DISTRIBUTION BOX	ALUMINUM	SLIDE	6" X 6"	MANUAL, SQ NUT	10'	7'	NON SELF-CONTAINED NON-RISING STEM, 6" TRAVEL FROM INV EL
5-G-1	ADULT MIGRATION GATE	LOWER RACEWAY DRAIN END	ALUMINUM	WEIR	24" X 48"	MANUAL, HAND CRANK	4'	2'	DOWNWARD OPENING WEIR GATE, RISING STEM, 48" TRAVEL
5-G-2	ADULT MIGRATION GATE	LOWER RACEWAY DRAIN END	ALUMINUM	WEIR	24" X 48"	MANUAL, HAND CRANK	4'	2'	DOWNWARD OPENING WEIR GATE, RISING STEM, 48" TRAVEL
5-G-3	ADULT MIGRATION GATE	LOWER POND DRAIN END	ALUMINUM	WEIR	36" X 48"	MANUAL, HAND CRANK	4'	2'	DOWNWARD OPENING WEIR GATE, RISING STEM, 48" TRAVEL
5-G-4	FISH RELEASE GATE	LOWER POND DRAIN END	ALUMINUM	SLIDE	48" X 48"	MANUAL, HAND CRANK	10'	7'	EMBEDDED INVERT FLOOR SEAL, RISING STEM
5-G-5	REUSE GATE	LOWER POND TAILRACE	STAINLESS	SLIDE	18" X 18"	MANUAL, HAND CRANK	5'	5'	EMBEDDED INVERT FLOOR SEAL, RISING STEM
5-G-6	FISH RELEASE GATE	LOWER POND TAILRACE	STAINLESS	SLIDE	24" X 24"	MANUAL, HAND CRANK	8'	0'	FLUSH MOUNT

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

EQUIPMENT SCHEDULES - III

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
G-8

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PIPING MATERIAL SCHEDULE

GROUP NO	PIPE	FITTINGS	VALVES, 6" AND SMALLER (G)(H)(K)
CS02	STEEL, ASTM A53, SCH 40, WELDED, GALVANIZED	2 1/2" AND SMALLER, MALLEABLE IRON, ASME B16.3, THREADED, BANDED, GALVANIZED 150 PSI. 3" AND LARGER, CAST IRON, ASME B16.1, 125 PSI FLANGED OR MECHANICAL COUPLING.	2 1/2" AND SMALLER, ECCENTRIC PLUG, SYNTHETIC RUBBER FACED: DEZURIK PEC, CAST IRON, OR MILLIKEN 603E. BALL: JAMESBURY FIG 351 OR WATTS #B-6080. 3" AND LARGER, ECCENTRIC PLUG, SYNTHETIC RUBBER FACED: DEZURIK PEC, CAST IRON, OR MILLIKEN 601. GATE: AWWA C500. BUTTERFLY: AWWA, FLANGED.
CU01	COPPER, ASTM B88, TYPE K, SOFT TEMPERED WHERE BURIED, HARD TEMPERED WHERE EXPOSED.	WROUGHT COPPER OR CAST BRONZE, ASME B16.22, SILVER SOLDER JOINT, 150 PSI, OR COMPRESSION FITTINGS.	BRONZE, SILVER SOLDER JOINT, GLOBE: CRANE #1310 OR STOCKHAM B-14T. CHECK: CRANE #1342 OR 36, OR STOCKHAM B-309Y OR B-345. GATE: CRANE #426 OR STOCKHAM B-104 OR B-105.
DI01	DUCTILE IRON, ANSI A21.51, (AWWA C151), ENDS BELL AND SPIGOT, MECHANICAL JOINTS OR 125 PSI FLANGED. (TYPICAL SERVICE - WATER LINES).	DUCTILE IRON AWWA C110, BELL AND SPIGOT JOINTS (RESTRAINED OR NON-RESTRAINED), MECHANICAL COUPLINGS, ASME B16.1 FLANGES, OR MECHANICAL JOINTS.	GATE: AWWA C500, O-RING SEALS, MECHANICAL JOINT ENDS, CLOW F-5065. BUTTERFLY: AWWA. ECC PLUG DEZURIK PEC, CAST IRON OR MILLIKEN 603E. BALL: PRATT OR APCO-WILLAMETTE.
PE04	POLYETHYLENE, CORRUGATED PROFILE WALL, ASTM F2306. PERFORATED (FOR STRUCTURE UNDERDRAIN)	POLYETHYLENE AS PROVIDED BY THE PIPE MANUFACTURER.	-
PE05	POLYETHYLENE, PRESSURE PIPE, AWWA C906, DR 32.5	POLYETHYLENE THERMAL BUTT-FUSED JOINTS, FLANGED JOINTS AT VALVES AND TRANSITIONS.INTERIOR GROUND TO REMOVE ANY IRREGULARITIES FOR ALL PIPES EXPOSED TO FISH.	AS INDICATED ON DRAWINGS.
PV01	POLYVINYL CHLORIDE (PVC), ASTM D1785, SCH 80, TYPE I.	PVC, SCH 80, TYPE I, SOCKET SOLVENT WELD JOINTS, ASTM D2467. SOLVENT SHALL BE COMPATIBLE WITH FLUID SERVICE.	PVC, BALL, DIAPHRAGM, BUTTERFLY, OR LIFT CHECK: NIBCO/CHEMTROL, MCCANNA-MARPAC, OR GEORGE FISCHER SLOANE.
PV05	POLYVINYL CHLORIDE (PVC), GRAVITY SEWER PIPE, ASTM D3034, BELL AND SPIGOT.	PVC, ANSI/ASTM D3034, BELL AND/OR SPIGOT.	-
SS01	STAINLESS STEEL, TYPE 316L, ASTM A312, SCH 40S.	STAINLESS STEEL, TYPE 316L, THREADED, WELDED SLIP-ON FLANGE ASME B16.3, OR SOCKET WELDED FITTINGS SCH 40S. (THREADED JOINTS NOT ALLOWED FOR OXYGEN SERVICE)	STAINLESS STEEL, TYPE 316, BALL, FLANGED: CONTROMATICS SERIES 2801 OR JAMESBURY SERIES 7150. CHECK: LADISH 5275 OR CRANE FIG 377 OR AS SHOWN ON DRAWINGS.

FLUID ABBREVIATION	FUNCTION THIS LIST INCLUDES SOME LINES NOT USED IN THIS PROJECT	PIPING MATERIALS (SEE GENERAL NOTES AT THE RIGHT AND PIPE MATERIALS)				FIELD TEST REQUIREMENTS (B)(C)		
		EXPOSED PIPING (F)		BURIED PIPING (E)		MINIMUM TEST PRESSURE (PSI)	TEST MEDIUM	LEAKAGE ALLOWANCE (A)
		4" DIA AND SMALLER	6" DIA AND LARGER	4" DIA AND SMALLER	6" DIA AND LARGER			
AIR	AIR RELEASE	CS02, PV01	CS02, PV01	CS02, PV01	CS02, PV01	25	WATER	(a)
BP	BYPASS/SURPLUS FLOW	--	--	--	PE05	(D)	WATER	(a)
BW	BACKWASH	DI01, PV01	DI01, PV01	DI01 , PE05, PV01	DI01, PE05	125	WATER	(a)
CLW	CLEANING WATER	CS02	--	CS02, DI01, PV01	--	125	WATER	(a)
D	DRAIN	CS02, DI01	CS02, DI01	DI01, PV05, PE05	DI01, PV05, PE05	50	WATER	(a)
DC	DOUBLE CONTAINMENT	PV01	PV01	PV01	PV01	5	AIR	(a)
DN	DECANT	DI01	DI01	DI01	--	50	WATER	(a)
FTR	FISH TRANSFER	--	--	--	PE05	25	WATER	(a)
OFL	OVERFLOW	--	DI01, PV05	--	DI01, PV05	25	WATER	(a)
OX	OXYGEN	CU01	--	CU01	--	125	DRY N2	(a)
RW	REUSE WATER	DI01, PV01	CS08, DI01, PV01	DI01 , PE05, PV01	DI01 , PE05, PV01	125	WATER	(a)
SDR	STORM DRAIN	--	DI01, PV05	--	DI01, PV05	(E)	WATER	(b)
SPW	SPAWNING WASTES	DI01	DI01	DI01, PE05	DI01, PE05	125	WATER	(a)
TD	TRENCH DRAIN	DI01	DI01	DI01, PE05, PV05	DI01, PE05, PV05	50	WATER	(a)
UD	STRUCTURE UNDERDRAIN	--	--	PE04	PE04	NO	TEST	REQ'D
UDC	STRUCTURE UNDERDRAIN COLLECTOR	--	--	DI01, PE05, PV01	DI01, PE05, PV01	(D)	WATER	(c)
UW	UTILITY WATER (NON POTABLE WATER)	CS02, DI01, SS01, SS02, PV01, CU01	CS02, DI01, SS01, PV01	CS02, DI01, SS01, PV01, CU01	CS02, CS08, DI01	125	WATER	CS01, DI01, CU01, PV01(a)
WS	WATER SUPPLY	DI01, PE05, PV01	DI01, PE05, PV01	CS08, DI01, PE05, PV01	CS08, DI01, PE05, PV01	50	WATER	DI01, PV01, PE05

GENERAL SHEET NOTES

1. ALTHOUGH SEVERAL PIPE MATERIAL GROUPS MAY BE LISTED ON THIS SHEET FOR A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE ONLY THE PIPE MATERIAL GROUP SHOWN ON THE DRAWINGS AND SPECIFIED FOR THAT FLUID SERVICE.
2. CHANGE IN PIPING MATERIAL GROUP NUMBER IS INDICATED THUS: ——◆——

⬡ SHEET KEYNOTES

A. LEAKAGE ALLOWANCE IS AS FOLLOWS:
   (a) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE.
   (b) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE FOR UNBURIED PIPE AND NOT MORE THAN 0.02 GALLON PER HOUR PER INCH DIAMETER PER 100 FEET OF BURIED PIPE.
   (c) PIPES SO DESIGNATED SHALL NOT SHOW LEAKAGE OF MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER PER 100 FEET OF PIPE.

B. FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.

C. NO SUBSTITUTIONS UNLESS ACCEPTED BY THE ENGINEER PER THE SPECIFICATIONS.

D. STATIC WATER TEST WITH SURFACE 5 FEET ABOVE HIGH POINT OF PIPE.

E. FOR PIPE LINING AND COATING, SEE SPECIFICATIONS.

F. EXPOSED PIPING SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS. COLORS TO BE SELECTED BY ENGINEER.

G. PROPRIETARY NAMES HAVE BEEN QUOTED FOR IDENTIFICATION PURPOSES ONLY. SUBSTITUTIONS WILL BE PERMITTED SUBJECT TO PROVISIONS OF THE SPECIFICATIONS.

H. FOR VALVES 8" AND LARGER, SEE VALVE SCHEDULE. FOR SPECIAL VALVES, SEE SPECIFICATIONS. FOR PIPE LINING AND COATING, SEE SPECIFICATIONS.

J. PIPE MATERIALS SHALL BE PER THE REFERENCE STANDARDS AS MODIFIED BY THE CONTRACT SPECIFICATIONS.

K. EXPOSED PIPING SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS. COLORS TO BE SELECTED BY THE OWNER.

TYPICAL PIPE DESIGNATION:



REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

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TULALIP TRIBES

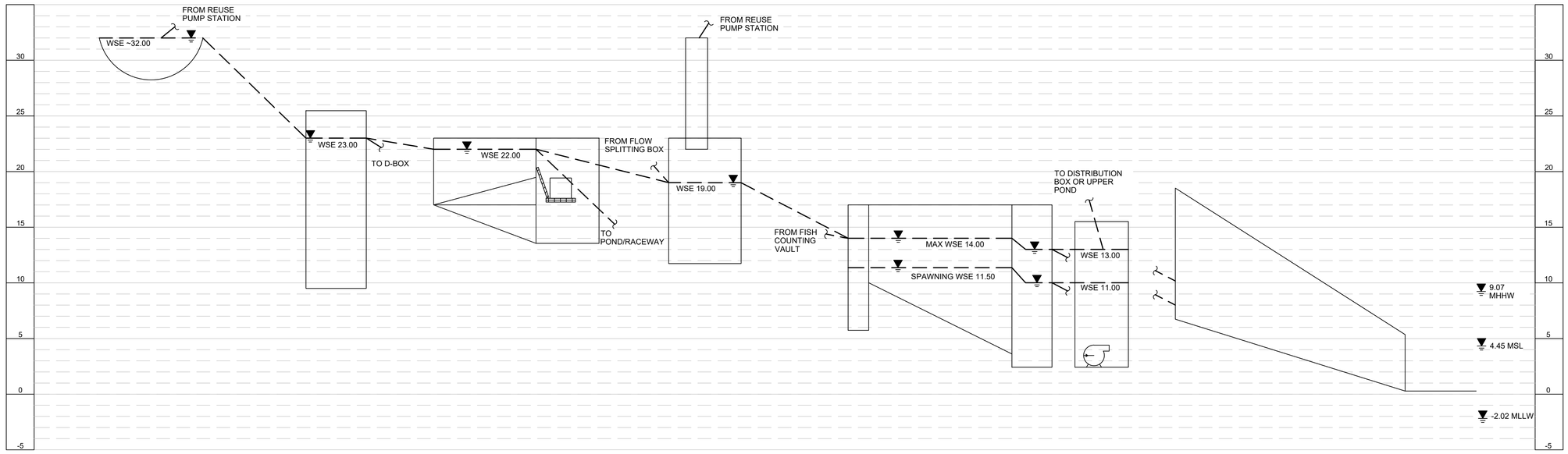
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

PIPE SCHEDULES

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
G-9

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

HYDRAULIC PROFILE

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
G-10

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CIVIL GENERAL NOTES

GENERAL

1. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
2. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL DEBRIS FROM DEMOLITION AT CONTRACTORS EXPENSE.
3. ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF COLUMN OR BUILDING.
4. THE CONTRACTOR SHALL DISPOSE OF ALL NON-ORGANIC WASTES SUCH AS OLD GUNITE, PIPING, ROCK RUBBLE ETC... AT AN APPROVED LANDFILL OR, OTHER SUITABLE DISPOSAL SITES AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.

UTILITIES

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION. THE CONTRACTOR SHALL POTHOLE FOR EXISTING UTILITIES PRIOR TO SUBMITTAL OF SHOP DRAWINGS, FOR POINTS OF CONNECTIONS.
2. THE CONTRACTOR SHALL PROTECT ALL REMAINING EXISTING UTILITIES.
3. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT UTILITY LINES WHETHER SHOWN OR NOT SHOWN.
4. PRIOR TO ANY CONNECTION TO AN EXISTING UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER. PRIOR TO ANY EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND FACILITIES, INCLUDING ALL WATER, SEWER, STORM DRAIN, GAS, PETROLIUM PRODUCTS, OR OTHER PIPELINES; ALL BURIED ELECTRIC POWER, COMMUNICATIONS, OR TELEVISION CABLES; ALL TRAFFIC SIGNAL AND STREET LIGHTING FACILITIES; AND ALL ROADWAY, STATE HIGHWAY, AND RAILROAD RIGHTS-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE AUTHORITIES REPRESENTING THE OWNERS OR AGENCIES RESPONSIBLE FOR SUCH FACILITIES NOT LESS THAN 3 DAYS NOR MORE THAN 7 DAYS PRIOR TO EXCAVATION SO THAT A REPRESENTATIVE OF SAID OWNERS OR AGENCIES CAN BE PRESENT DURING SUCH WORK IF THEY SO DESIRE. IN THE CASE OF THE UNDERGROUND UTILITY SERVICE ALERT CENTER, THIS NOTICE WILL GIVE THEM TIME TO MARK THE LOCATION OF THE UTILITIES. THE CONTRACTOR SHALL ALSO NOTIFY THE REGIONAL OR LOCAL UNDERGROUND SERVICE ALERT COMPANY AT LEAST 3 DAYS, BUT NO MORE THAN 7 DAYS, PRIOR TO SUCH EXCAVATION.

PIPING

1. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 INCHES OF COVER ON ALL PIPELINES UNLESS OTHERWISE SHOWN OR DIRECTED.
2. STRAIGHT SLOPES SHALL BE MAINTAINED BETWEEN INVERT ELEVATIONS SHOWN OR SPECIFIED.
3. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, PULL BOXES AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR SPECIFIED. MANHOLES IN OPEN FIELDS SHALL BE SET ONE FOOT ABOVE GRADE. APPROXIMATE RIM ELEVATIONS ARE SHOWN ON DRAWINGS.
4. ALL PIPE TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH DETAIL C-602 FOR RIGID PIPE AND C-601 FOR FLEXIBLE PIPE. THE PIPING SHOWN ON THESE PLANS SHALL BE RESTRAINED JOINT DESIGN AT ALL SLEEVE TYPE COUPLINGS.
5. FOR HDPE PIPE THAT MAY COME IN CONTACT WITH FISH, CONTRACTOR SHALL GRIND AND REMOVE ALL DISCONTINUITIES ON THE PIPE INTERIOR, INCLUDING AT ALL FUSION JOINTS, TO CREATE A SMOOTH SURFACE.

SURVEY NOTES

STATISTICS:

EQUIPMENT: HEMISPHERE S321 GPS AND LEICA TS12
ROBOTIC TOTAL STATION.
METHODOLOGY: FIELD TRAVERSE AND GPS
MEETS OR EXCEEDS SURVEY STANDARD AS PER:
WAC 332-130-050
WAC-332-130-090
WAC-332-130-100
ALL SURVEY WORK OCCURRED IN NOVEMBER OF 2021.

HORIZONTAL DATUM:

HORIZONTAL DATUM FOR THIS SURVEY IS NAD 1983(11), WASHINGTON STATE PLANE NORTH ZONE COORDINATE SYSTEM, U.S. SURVEY FEET. THE HORIZONTAL DATUM IS BASED ON OPUS OBSERVATIONS ON TRULAND SURVEY POINT NUMBER 2080 SHOWN HEREON. ALSO VERIFIED TO WSDOT POINT DESIGNATION 'BM TIDAL 5'

POINT NUMBER: 2080
NORTHING: 1,285,353.036'
EASTING: 391,696.106'

VERTICAL DATUM:

VERTICAL DATUM IS NAVD88 BASED ON PUBLISHED INFORMATION FROM WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT), POINT DESIGNATION 'BM TIDAL 8'.

POINT DESIGNATION: BM TIDAL 8
ELEVATION: 18.904' NAVD88

THE CONVERSION FROM NAVD88 TO MLLW DATUM WAS REFERENCED TO NOAA TIDAL BENCHMARK 'TIDAL BM 8 1974'.

TIDAL DATUMS AT TULALIP, BAY WA, BASED ON:

LENGTH OF SERIES:	4 MONTHS
TIME PERIOD:	AUGUST 2013 - NOVEMBER 2013
TIDAL EPOCH:	1983-2001
CONTROL TIDE STATION:	9447773

ELEVATION OF TIDAL ELEMENTS CONVERTED TO NAVD 88

MEAN HIGHER HIGH WATER	MHHW	9.02 FEET
MEAN HIGH WATER	MHW	8.19 FEET
MEAN TIDE LEVEL	MTL	4.46 FEET
MEAN SEA LEVEL	MSL	4.44 FEET
MEAN LOWER LOW WATER	MLLW	-2.04 FEET

SOURCE: NOAA STATION ID = 9447773
NAME: TULALIP, TULALIP BAY, WA
NAVD88 +2.04 = MLLW DATUM/ELEVATION

GENERAL CIVIL SYMBOLS

- NEW
- EXISTING
- FUTURE
- EXISTING TO BE REMOVED OR DEMOLISHED
- CENTERLINE
- EARTH (IN SECTION)
- COMPACTED EARTH (IN SECTION)
- S=0.0123 — SLOPE ON PAVED SURFACE
- 3:1 — BERM SLOPE (HORZ TO VERT)

TOPOGRAPHY AND MAPPING SYMBOLS

- 125 — MAJOR CONTOURS
- MINOR CONTOURS
- TOP OF SLOPE
- TOE OF SLOPE
- P/L — PROPERTY LINE
- R/W — RIGHT-OF-WAY LINE
- GB — GRADE BREAK
- R — RIDGE LINE
- EASEMENT LINE
- TEMP ESMT — TEMPORARY EASEMENT LINE
- TRAIL OR DIRT ROAD
- FLOW LINE
- FLOOD HAZARD AREA
- EDGE OF WETLANDS
- RAILROAD
- GUARDRAIL (PERMANENT)
- GUARDRAIL (REMOVABLE)
- VEGETATION
- WELL

CONTROL SYMBOLS

- BM-XX — BENCH MARK
- ### — SITE COORDINATES (SEE TABLE ON DRAWINGS)
- N XXXXXXX, E XXXXXXX — SITE COORDINATES
- EL XXXX.XX — MONUMENT
- HORIZONTAL CONTROL POINT
- VERTICAL CONTROL POINT
- HORZ AND VERT CONTROL POINT
- XXX.XX — FINISHED ELEVATION
- (XXX.XX) — EXISTING ELEVATION
- DELTA
- B-X — SOIL BORING

STRUCTURES

- SITE OR RETAINING WALL
- x — FENCE (CHAINLINK)
- FENCE (WOOD)
- STRUCTURE
- STRUCTURE (BELOW GRADE)
- CB — CATCH BASIN
- BOLLARD

ROAD AND PAVING SYMBOLS

- WSDOT 9-03.8 HOT MIX ASPHALT (HMA)
- GRAVEL/DRAIN ROCK/AGGREGATE BASE, NEW
- GRAVEL SURFACE, EXISTING
- CRUSHED SURFACING BASE COURSE (CSBC)
- ASPHALT SURFACE, EXISTING
- STONE PITCHING

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TULALIP TRIBES

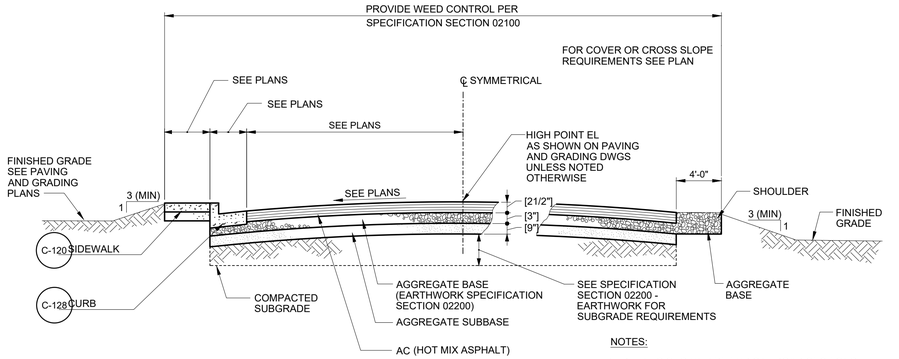
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

CIVIL NOTES, ABBREVIATIONS AND SYMBOLS

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
GC-1

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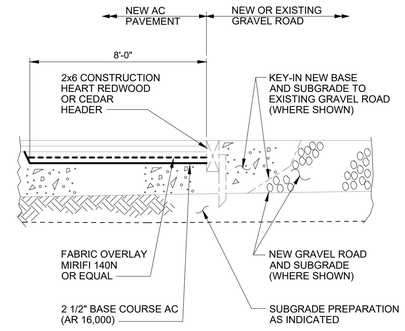


NOTES:

1. DETAILS SHOWN ARE TYPICAL ROAD SECTIONS UNLESS NOTED OTHERWISE
2. SEE GENERAL NOTES FOR DIMENSION REQUIREMENTS

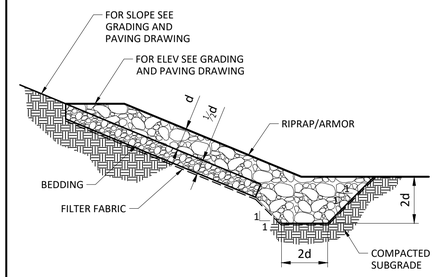
C-130 AC ROAD SECTION

REV 010119



C-133 AC PAVEMENT GRAVEL TRANSITION

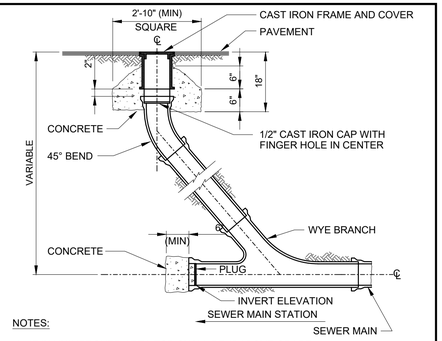
REV 010119



NOTES:

1. d = 9" U.N.O.
2. FOR RIPRAP ARMOR AND BEDDING SIZE, SEE SPECS.

C-202 RIPRAP & ARMOR PROTECTION

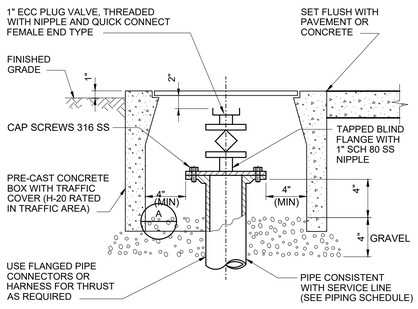


NOTES:

1. IF IN UNIMPROVED AREA TOP SHALL BE 6" ABOVE GRADE.
2. SEE PLAN FOR STATION AND INVERT ELEVATION. PIPE AND FITTINGS SHALL BE OF THE SAME MATERIAL AS THE MAIN LINE SEWER.

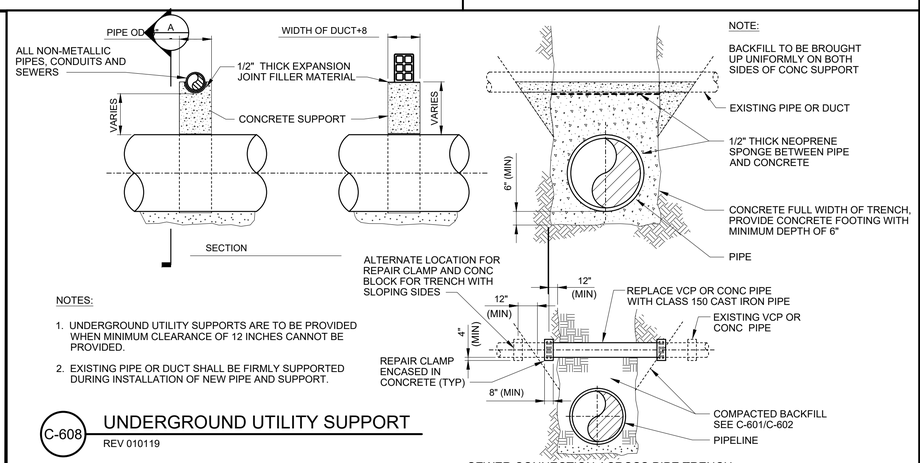
C-302 CLEANOUT TO GRADE (COTG)

REV 010119



PRESSURIZED SYSTEM CLEANOUT TO GRADE (PCOTG) C-305

REV 110112



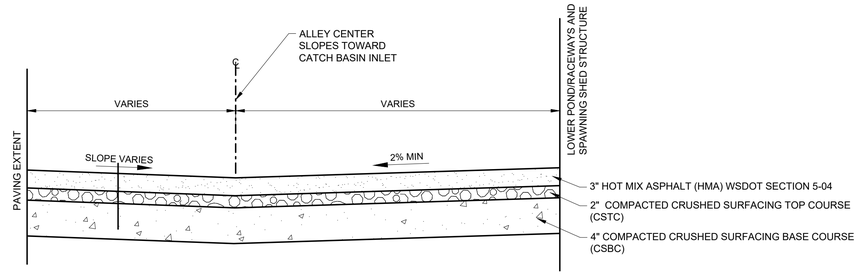
NOTES:

1. UNDERGROUND UTILITY SUPPORTS ARE TO BE PROVIDED WHEN MINIMUM CLEARANCE OF 12 INCHES CANNOT BE PROVIDED.
2. EXISTING PIPE OR DUCT SHALL BE FIRMLY SUPPORTED DURING INSTALLATION OF NEW PIPE AND SUPPORT.

C-608 UNDERGROUND UTILITY SUPPORT

REV 010119

SEWER CONNECTION ACROSS PIPE TRENCH



C-910 HMA ALLEY SECTION

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A	06/29/26	RM	PRE-FINAL SUBMITTAL

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TULALIP TRIBES

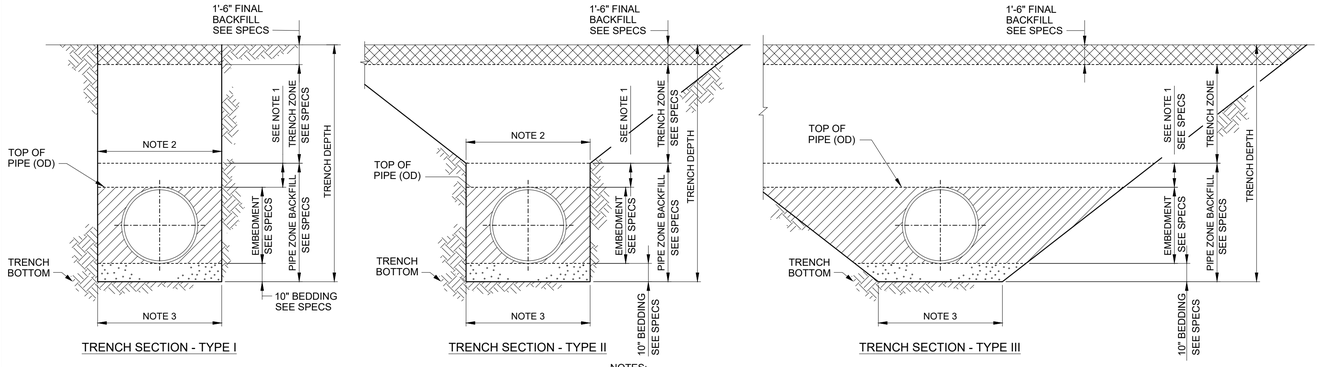
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

CIVIL STANDARD DETAILS - 1

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
GC-2

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C-601 TRENCH SECTION FLEXIBLE PIPE

REV 010119

NOTES:

1. 6" MIN FOR PIPE DIAMETER < 24"
   12" MIN FOR PIPE DIAMETER > 24"
2. MAX TRENCH WIDTH @ TOP OF PIPE:
   OD + 36" FOR, 18" AND LARGER PIPE OD
   OD + 24" FOR LESS THAN 18"
3. MIN TRENCH BOTTOM WIDTH =
   OD + 24" FOR MECHANICAL COMPACTION

A. FLEXIBLE PIPE REFERS TO ALL STEEL, DUCTILE-IRON, AND PLASTIC PIPES.

B. TYPICAL TRENCH SECTIONS (I, II AND III) ARE TO BE USED ONLY WHERE STABLE, COMPACT SOIL CONDITIONS EXIST. IF BOULDERS OR LARGE OBSTRUCTIONS ARE ENCOUNTERED, TRENCH SECTIONS MAY BE DEEPER OR WIDER THAN SHOWN. THE ENGINEER SHALL BE ADVISED SHOULD THIS OCCUR.

C. THE NEED FOR PROTECTIVE SYSTEMS AND EXCAVATION SLOPES SHALL BE DETERMINED CONSIDERING APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, AND GEOTECHNICAL CONSULTANTS' RECOMMENDATIONS.

D. PROTECTIVE SYSTEMS SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH THE APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS.

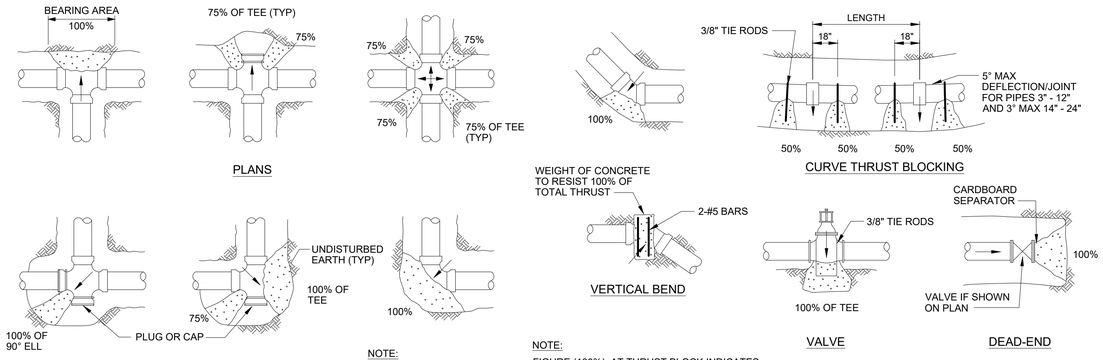
E. SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER REGARDING PIPE DESIGN AND COMPLIANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS.

F. UNSUPPORTED VERTICAL AND/OR SLOPING TRENCH WALL SLOPES SHALL NOT BE STEEPER THAN ALLOWED BY APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, UNLESS SUPPORTING DOCUMENTATION IS SUBMITTED, ACCORDING TO AFOREMENTIONED SAFETY STANDARDS.

G. TRENCH SECTIONS OTHER THAN THE TYPICAL SECTIONS SHOWN MAY BE UTILIZED PROVIDED THEY COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS. DOCUMENTATION SUPPORTING THIS COMPLIANCE AND PIPE DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER.

H. IF OVER-EXCAVATION DUE TO POOR FOUNDATION MATERIAL IS ORDERED BY THE ENGINEER, THE BACKFILL MATERIAL SHALL BE ACCORDING TO THE EARTHWORK SECTION OF THE SPECIFICATIONS ARTICLE ENTITLED, "FILL AND BACKFILL MATERIAL REQUIREMENTS."

I. IF DURING CONSTRUCTION, THE WATER TABLE IS DISCOVERED TO BE ABOVE THE TRENCH BOTTOM, THE ENGINEER SHALL BE NOTIFIED, AND APPROPRIATE DEWATERING SHALL BE IMPLEMENTED TO LOWER THE WATER LEVEL BELOW THE TRENCH BOTTOM. THE BACKFILL MATERIAL SHALL BE ACCORDING TO THE EARTHWORK SECTIONS OF THE SPECIFICATIONS, OR AS ORDERED BY THE ENGINEER.



C-605 CONCRETE THRUST BLOCKS

REV 010119

THRUST PER PSI OF WATER PRESSURE AT VARIOUS FITTINGS				
PIPE SIZE	DEAD END OR TEE	90° ELBOW	45° ELBOW	22 1/2° ELBOW
4	19	27	15	7
6	39	55	30	15
8	67	94	51	26
10	109	154	84	43
12	155	218	119	61
14	210	296	161	82
16	275	383	209	106
18	351	494	269	137
20	434	611	333	169
24	623	878	478	244

EXAMPLE:

8-INCH 90° ELBOW, PRESSURE=200 PSF
FROM TABLE: THRUST = 94x200 = 18,800 lb
ASSUME BEARING STRENGTH OF SOIL = 2000 PSF

18,800 / 2000 =9.4 SQ FT= BEARING AREA REQUIRED FOR THRUST BLOCK

SIDE THRUST PERM 100 PSI PRESSURE PER DEGREE OF DEFLECTION			
PIPE SIZE	SIDE THRUST-lb	PIPE SIZE	SIDE THRUST-lb
4	35	14	377
6	72	16	486
8	122	18	665
10	197	20	790
12	278	24	1150

MULTIPLY THRUST BY DEGREE OF DEFLECTION TO OBTAIN TOTAL THRUST

NOTES:

1. IN USING THE ABOVE TABLES, USE THE MAXIMUM INTERNAL PRESSURE ANTICIPATED (i.e. HYDROSTATIC TEST PRESSURE) POSSIBLE SURGE PRESSURE DUE TO PUMP SHUT-OFF, ETC.
2. SEE SOILS REPORT FOR BEARING STRENGTH OF SOIL IN THE ABSENCE OF A SOILS REPORT AN AVERAGE SOIL (SPADABLE MEDIUM CLAY) CAN BE ASSUMED TO HAVE A BEARING STRENGTH OF 2000 PSF
3. WITH SOLVENT WELDED JOINTS
4. USE LIGHTWEIGHT CONCRETE FOR HILL THRUST BLOCK.
5. CONCRETE FOR THRUST BLOCKS TO BE 2000 PSI.

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TULALIP TRIBES

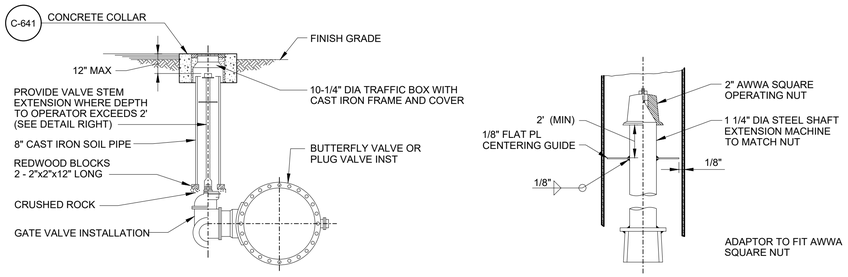
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

CIVIL STANDARD DETAILS - 2

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
GC-3

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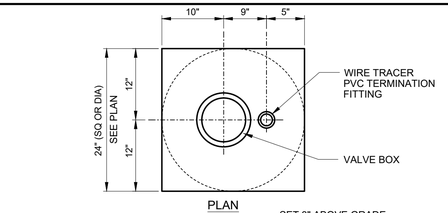


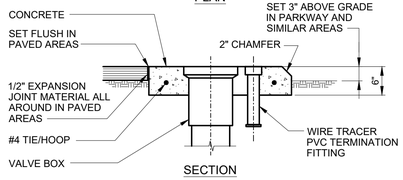
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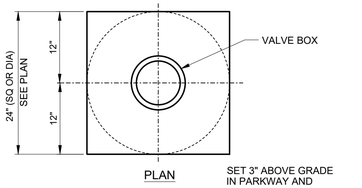
PROVIDE PROTECTIVE COATING TO EXTERIOR SURFACE OF VALVE BODY IN ACCORDANCE WITH SPECS.
FOR LUBRICATED PLUG VALVE, EXTEND LUBRICATION LINE TO GRADE PER MANUFACTURES INSTRUCTIONS.

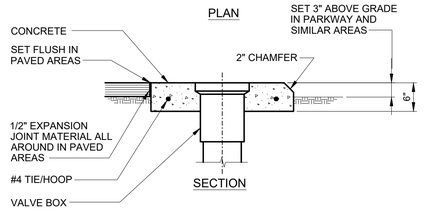
C-640 BURIED VALVE INSTALLATION

REV 010119



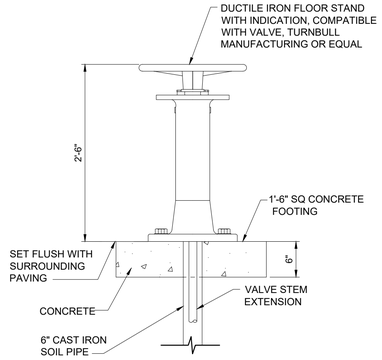






C-641 VALVE BOX COLLAR

REV 010119



C-900 PEDESTAL ACTUATOR

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A	06/29/26	RM	PRE-FINAL SUBMITTAL

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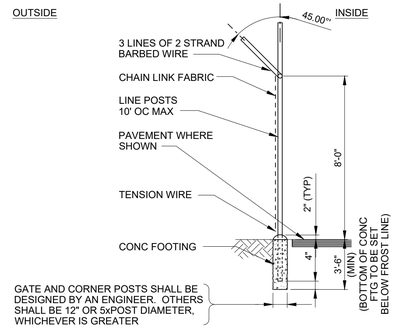
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

CIVIL STANDARD DETAILS - 3

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
GC-4

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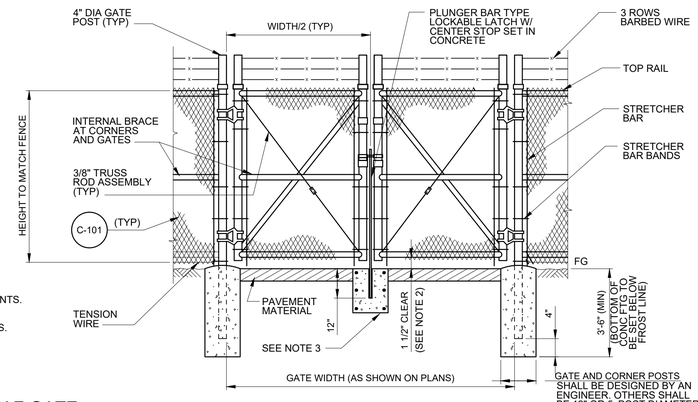


NOTES:

1. SEE SPECIFICATIONS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
2. EXTENSION ARM MAY BE TURNED IN AT OPTION OF OWNER.

C-101 CHAIN LINK FENCE

REV 010119

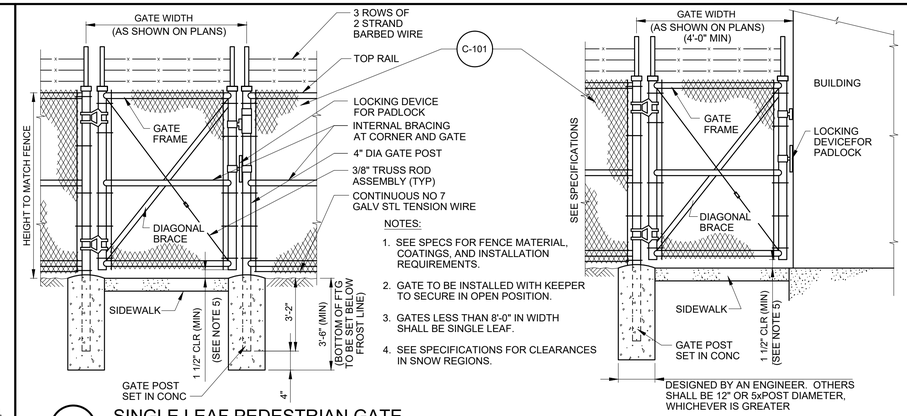


NOTES:

1. SEE SPECIFICATIONS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
2. SEE SPECIFICATIONS FOR CLEARANCES IN SNOW REGIONS.
3. 12" DIAMETERx18" DEEP CONCRETE STOP W/ 20 GA STEEL PLUNGER SLEEVE, DIA = ROD OD +1/2".

C-102 DOUBLE LEAF GATE

REV 010119

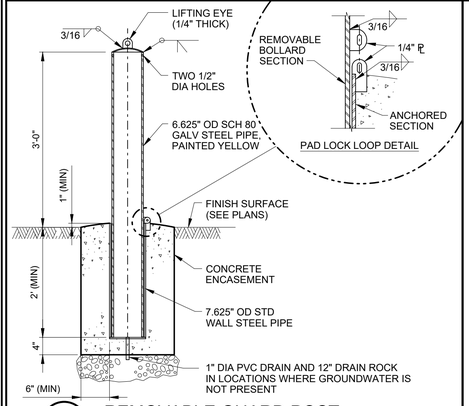


NOTES:

1. SEE SPECS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
2. GATE TO BE INSTALLED WITH KEEPER TO SECURE IN OPEN POSITION.
3. GATES LESS THAN 8'-0" IN WIDTH SHALL BE SINGLE LEAF.
4. SEE SPECIFICATIONS FOR CLEARANCES IN SNOW REGIONS.

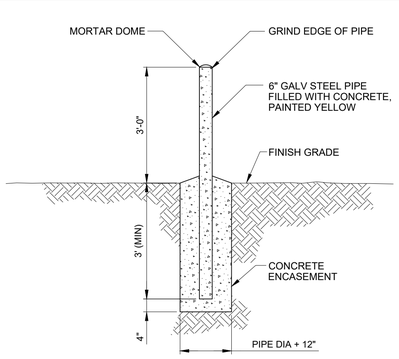
C-103 SINGLE LEAF PEDESTRIAN GATE

REV 010119



C-113 REMOVABLE GUARD POST

REV 010119

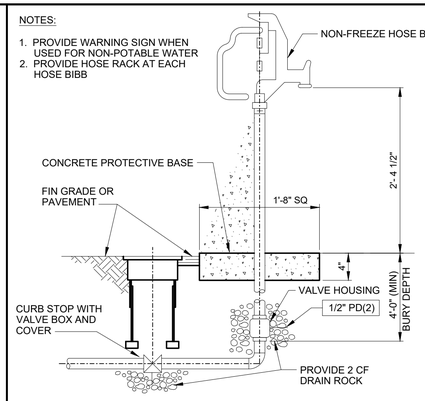


C-114 GUARD POST

REV 010119

NOTES:

1. PROVIDE WARNING SIGN WHEN USED FOR NON-POTABLE WATER
2. PROVIDE HOSE RACK AT EACH HOSE BIBB



C-627 NON-FREEZE YARD HYDRANT

REV 010119

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

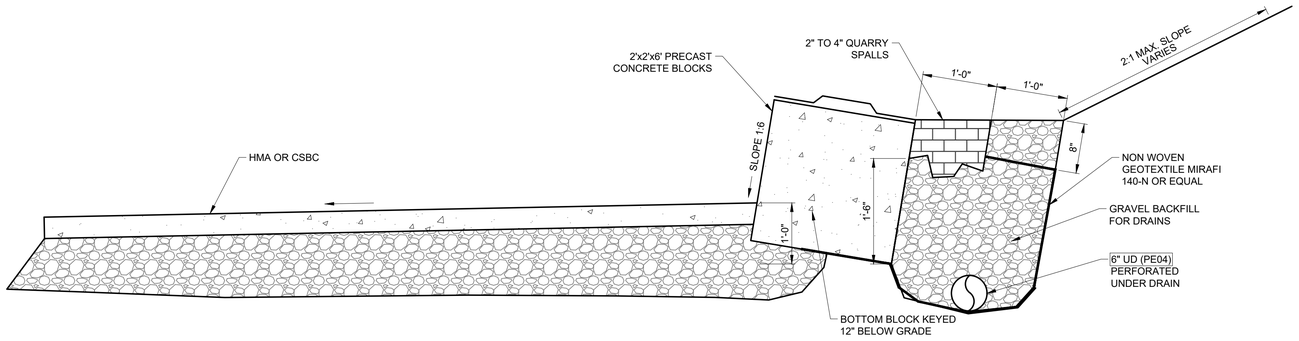
CIVIL STANDARD DETAILS - 4

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

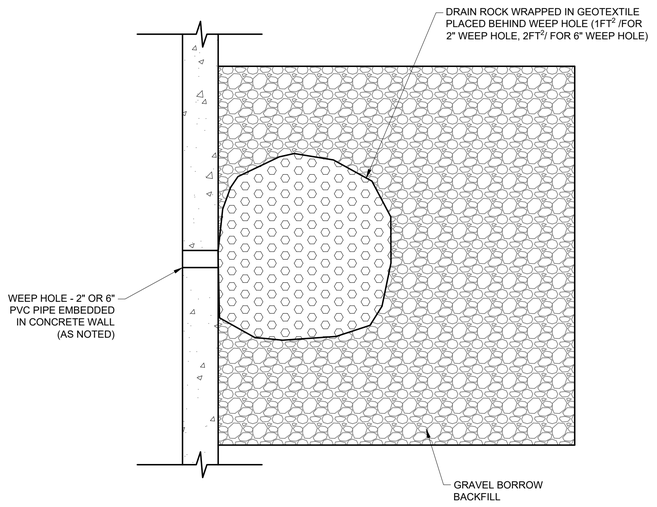
DRAWING

GC-5

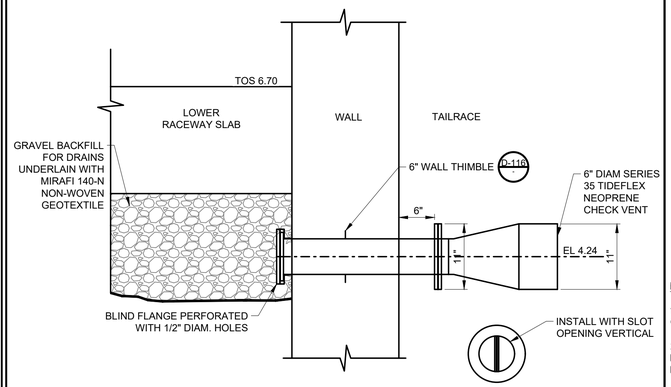
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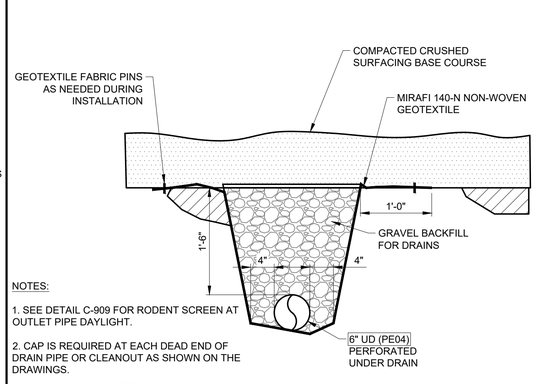
C-900 PRECAST CONCRETE BLOCK RETAINING WALL



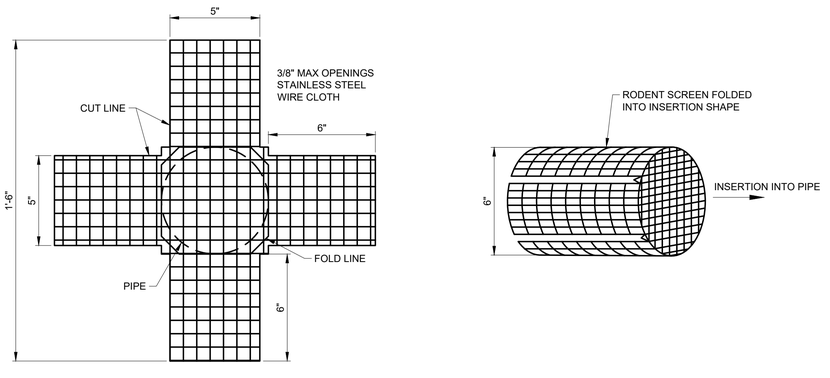
C-911 WEEP HOLE AGGREGATE FILTER



C-907 UNDER DRAIN OUTLET



C-908 UNDER DRAIN PIPE AND TRENCH



C-909 UNDER DRAIN PIPE RODENT SCREEN

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

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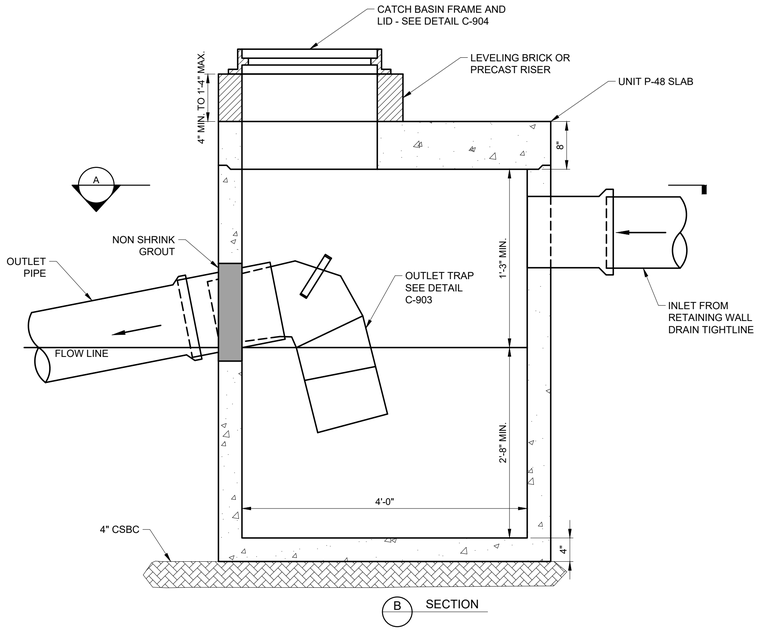
TULALIP TRIBES

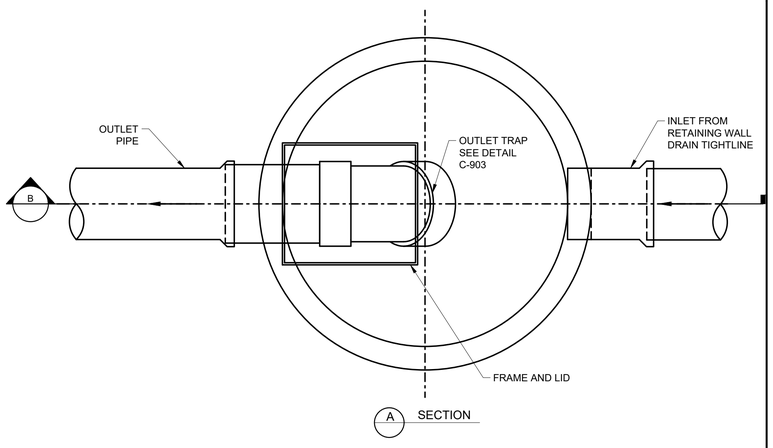
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
CIVIL STANDARD DETAILS - 5

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

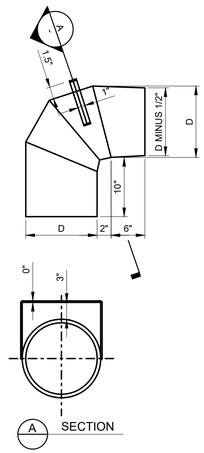
DRAWING
GC-6

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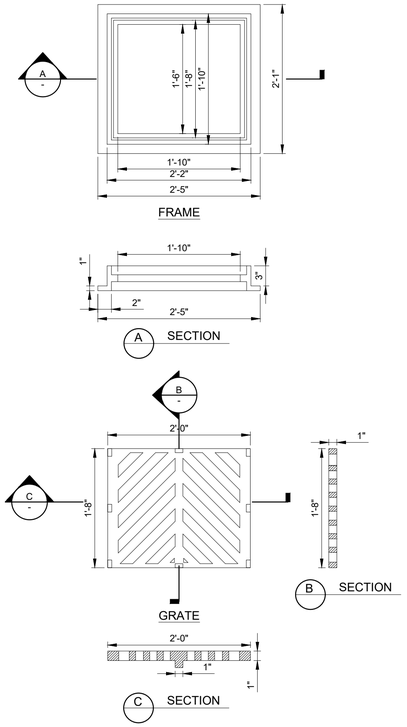
C-901 CATCH BASIN DETAIL



C-903 CATCHBASIN OUTLET TRAP

NOTE:

1. TRAP MADE OF 22 GA SHEET METAL OR 16 GA ALUMINUM.
2. ALL JOINTS TO BE SEAMED/SOLDERED OR WELDED.
3. D=DIAMETER OF OUTLET PIPE LIFT HANDLE TO OUTSIDE OF TRAP.



C-904 CATCH BASIN FRAME AND LID

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

CIVIL STANDARD DETAILS - 6

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
GC-7

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PIPE TABLE SUMMARY (6" AND LARGER)

DESCRIPTION	SEGMENT FROM	TO	DIAMETER (IN)	NOMINAL LENGTH (FT)	SLOPE	U/S IE.	D/S IE.	MATERIAL	FLUID	FITTINGS
STORM PIPE	CATCH BASIN 1	FISHLADDER	24"	62.5	0.024	12.50	11.00	PE05	SDR	(1) 24"X6" WYE OR TEE
RETAINING WALL B UNDERDRAIN COLLECTOR	RETAINING WALL B	CATCH BASIN 1	6"	16.5	0.127	15.50	13.40	PE05	UDC	(2) 6" 45DEG. BENDS,TRANSITION FITTING TO PERFORATED UNDER DRAIN PIPE
RETAINING WALL B UNDERDRAIN	RETAINING WALL B	RETAINING WALL B UNDERDRAIN COLLECTOR	6"	125	0.052	22.00	15.50	PE04	UD	(4) 6" CLEANOUTS, (3) 45DEG. BEND FITTINGS AS REQUIRED, END CAP
RETAINING WALL A UNDERDRAIN COLLECTOR	RETAINING WALL A	BYPASS/SURPLUS FLOW PIPE	6"	14	0.310	16.50	12.16	PE05	UDC	(2) 6" 45DEG. BEND, FITTING TO PERFORATED UNDER DRAIN PIPE
RETAINING WALL A UNDERDRAIN	RETAINING WALL A	RETAINING WALL A UNDERDRAIN COLLECTOR	6"	37	0.01 MIN	18.00	16.50	PE04	UD	(1) CLEANOUT, END CAP
BYPASS SURPLUS PIPE	FLOW SPLITTING BOX	DIST. BOX OVERFLOW TEE	54"	51	0.024	10.71	10.29	PE05	BP	(1) 42" WALL PIPE, (1) 42" FLEX COUPLING, 54" X 42" REDUCER, (1) 54" X 24" TEE, (2) 45DEG. BENDS
BYPASS SURPLUS PIPE	DIST. BOX OVERFLOW TEE	RETAINING WALL A WYE/TEE/TAP	54"	51	0.024	10.29	8.42	PE05	BP	(1) 54" X 6" WYE/TEE/TAP
BYPASS SURPLUS PIPE	RETAINING WALL A WYE/TEE/TAP	TAILRACE	54"	180	0.024	8.42	4.00	PE05	BP	(1) 90DEG. BEND, (1) FLEX COUPLING, (1) WALL PIPE
FISH PASSAGE TO INTERMEDIATE RACEWAYS PIPE	SPLITTING BOX	INTERMEDIATE RACEWAYS HEAD BOX	24"	37	-0.008	15.25	15.52	PE05	FTR	(1) 24" LONG SWEEP 90DEG. BEND, (2) 45DEG. BENDS, (2) FLEXIBLE COUPLING, (2) WALL PIPES
DISTRIBUTION BOX SUPPLY PIPE	SPLITTING BOX	DISTRIBUTION BOX	24"	23	0.014	12.00	11.80	PE05	WS	(2) FLEXIBLE COUPLINGS, (2) WALL PIPES
INTERMEDIATE RACEWAYS SUPPLY PIPE	DISTRIBUTION BOX	INTERMEDIATE RACEWAYS HEAD BOX	12"	21	-0.013	15.25	15.52	PE05	WS	(4) FLEXIBLE COUPLINGS, (1) 12" MAG METER, (1) FLANGED COUPLING ADAPTER, (1) BUTTERFLY VALVE, (1) 90DEG. BEND, (2) WALL PIPES
DISTRIBUTION BOX OVERFLOW PIPE	DISTRIBUTION BOX	BYPASS SURPLUS PIPE	24"	19	0.024	9.45	9.00	PE05	OF	(1) WALL PIPE, (1) FLEXIBLE COUPLING, (1) 90DEG. BEND
SCREENED WATER SUPPLY TO DISTRIBUTION BOX	INTERMEDIATE RACEWAYS SCREENED	DISTRIBUTION BOX	24"	40	VARIES	NA	NA	PE05	WS	(1) FLEXIBLE COUPLING, (3) 90DEG BENDS, (2) WALL PIPE, (3) 45DEG. BENDS
NORTH LOWER RACEWAY SUPPLY PIPE	DISTRIBUTION BOX	NORTH LOWER RACEWAY	12"	117	0.03	9.50	5.75	PE05	WS	(3) FLEXIBLE COUPLINGS, (2) 45DEG. BENDS, (1) 12" MAG METER, (1) BUTTERFLY VALVE, (1) FLANGED COUPLING ADAPTER, (1) FLEXIBLE JOINT RESTRAINT, (4) WALL PIPES
LOWER POND SUPPLY PIPE	DISTRIBUTION BOX	LOWER POND	18"	104	0.05	9.50	4.75	PE05	WS	(3) FLEXIBLE COUPLINGS, (2) 45DEG. BENDS, (1) 18" MAG METER, (1) BUTTERFLY VALVE, (1) FLANGED COUPLING ADAPTER, (1) FLEXIBLE JOINT RESTRAINT, (4) WALL PIPES
SOUTH LOWER RACEWAY SUPPLY PIPE	DISTRIBUTION BOX	SOUTH LOWER RACEWAY	12"	94	0.04	9.50	5.75	PE05	WS	(3) FLEXIBLE COUPLINGS, (2) 45DEG. BENDS, (1) 12" MAG METER, (1) BUTTERFLY VALVE, (1) FLANGED COUPLING ADAPTER, (1) FLEXIBLE JOINT RESTRAINT, (4) WALL PIPES
FISH AND INTERMEDIATE FLOW PASSAGE PIPE	FISH COUNTER BASIN	TAILRACE	24"	228	0.01	12.75	11.50	PE05	FTR	(2) FLEXIBLE COUPLINGS, (2) WALL PIPES, (2) 45DEG. BENDS, (1) 90DEG. BEND
FISH PASSAGE TO NORTH LOWER RACEWAY PIPE	FISH COUNTER BASIN	NORTH LOWER RACEWAY/POND WALL	18"	92	0.01	14.50	13.50	PE05	FTR	(1) FLEXIBLE COUPLING, (2) 45DEG. BENDS, (2) LONG SWEEP 90DEG. BENDS, (1) WALL PIPE
FISH PASSAGE TO SOUTH LOWER RACEWAY PIPE	FISH COUNTER BASIN	SOUTH LOWER RACEWAY/ POND WALL	18"	108	0.01	14.50	13.50	PE05	FTR	(1) FLEXIBLE COUPLING, (2) 45DEG. BENDS, (2) LONG SWEEP 90DEG. BENDS, (1) WALL PIPE
CLARIFIER DECANT PIPE	CLARIFIER	STORM PIPE	6"	65	0.04	15.50	12.70	PE05	DN	SEE 8M SHEETS,
SPAWNING SHED SUMP SOLIDS WASTE PIPE	SPAWNING WASTE SUMP	SPAWNING WASTE PS WET WELL	8"	13	0.07	10.34	8.38	PE05	SPW	(1) 90DEG. BEND, (1) 12" FLEXIBLE COUPLING AT WET WELL SEE 6M SHEETS
SPAWNING SHED SOLIDS WASTE PIPE	SPAWNING WASTE DRAINS	SPAWNING WASTE PS WET WELL	8"	22	VARIES	NA	NA	PE05	SPW	(1) 8"X6" REDUCERS, (1) 8" FLEXIBLE COUPLINGS, (1) 8"X6" WYE, (1) 8" 45DEG. BEND, SEE 6M SHEETS
SPAWNING SHED SOLIDS WASTE PIPE	SPAWNING WASTE DRAINS	SPAWNING WASTE PS WET WELL	8"	14	VARIES	NA	NA	PE05	SPW	(1) 8"X6" REDUCERS, (1) 8" FLEXIBLE COUPLINGS, (1) 8"X6" WYE, (1) 8" 45DEG. BEND, SEE 6M SHEETS
SPAWNING SHED SOLIDS WASTE PIPE	SPAWNING WASTE DRAINS	SPAWNING WASTE PS WET WELL	12" AND 8"	40	VARIES	NA	NA	PE05	SPW	(3) 12"X6" WYES, (1) 12" FLEXIBLE COUPLING,(1) 12"X8" REDUCER, (1) 8"X6" WYE, SEE 6M SHEETS
SPAWNING SHED SOLIDS WASTE PIPE	SPAWNING WASTE DRAINS	SPAWNING WASTE PS WET WELL	6"	117	VARIES	NA	NA	PE05	SPW	(7) 45DEG. BENDS, (8) 90DEG. BENDS
REUSE PUMP STATION DISCHARGE PIPE UPPER	TREATMENT BUILDING	DISTRIBUTION BOX	10"	37	VARIES	15.29	13.45	PE05	RW	(1) FLEXIBLE COUPLING, (2) 90DEG. BENDS, (2) 45DEG. BENDS, (2) THRUST BLOCKS
REUSE PUMP STATION DISCHARGE PIPE LOWER	REUSE PUMP STATION	TREATMENT BUILDING	10"	209	VARIES	13.45	11.75	PE05	RW	(1) FLEXIBLE COUPLING, (2) 90DEG. BENDS, (2) THRUST BLOCKS
HIGH LEVEL OUTLET UNDER DRAIN	HIGH LEVEL OUTLET CHANNEL	LOWER DAM FOREBAY	6"	133	0.01	11.00	10.25	PE04	UDC	(1) PERFORATED TO SOLID WALL TRANSITION COUPLING, (1) END CAP
FOREBAY UNDER DRAIN COLLECTOR	LOWER DAM FOREBAY	FISHLADDER MODIFICATIONS WALL	6"	44	0.01	10.25	10.00	PE05	UD	(1) 6" X 6" CROSS, (2) CLEANOUTS, (2) ALFALFA VALVES

NOTES :

1. THIS TABLE PROVIDES GENERAL INFORMATION ONLY REGARDING THE SIZE, LENGTH, SLOPE, FITTINGS, AND OTHER FEATURES FOR PIPELINES. CONTRACTOR SHALL VERIFY ALL INFORMATION WITH PIPING SHOWN IN CIVIL AND MECHANICAL SHEETS. CIVIL AND MECHANICAL DRAWINGS SHALL GOVERN FOR ANY DISCREPANCY WITH THE INFORMATION PRESENTED ON THIS SHEET.

GENERAL SHEET NOTES

1. ALTHOUGH SEVERAL PIPE MATERIAL GROUPS MAY BE LISTED ON THIS SHEET FOR A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE ONLY THE PIPE MATERIAL GROUP SHOWN ON THE DRAWINGS AND SPECIFIED FOR THAT FLUID SERVICE.
2. CHANGE IN PIPING MATERIAL GROUP NUMBER IS INDICATED THUS:

SHEET KEYNOTES

A. LEAKAGE ALLOWANCE IS AS FOLLOWS:
   (a) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE.
   (b) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE FOR UNBURIED PIPE AND NOT MORE THAN 0.02 GALLON PER HOUR PER INCH DIAMETER PER 100 FEET OF BURIED PIPE.
   (c) PIPES SO DESIGNATED SHALL NOT SHOW LEAKAGE OF MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER PER 100 FEET OF PIPE.

B. FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.

C. NO SUBSTITUTIONS UNLESS ACCEPTED BY THE ENGINEER PER THE SPECIFICATIONS.

D. STATIC WATER TEST WITH SURFACE 5 FEET ABOVE HIGH POINT OF PIPE.

E. FOR PIPE LINING AND COATING, SEE SPECIFICATIONS.

F. EXPOSED PIPING SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS. COLORS TO BE SELECTED BY ENGINEER.

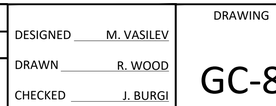
G. PROPRIETARY NAMES HAVE BEEN QUOTED FOR IDENTIFICATION PURPOSES ONLY. SUBSTITUTIONS WILL BE PERMITTED SUBJECT TO PROVISIONS OF THE SPECIFICATIONS.

H. FOR VALVES 8" AND LARGER, SEE VALVE SCHEDULE. FOR SPECIAL VALVES, SEE SPECIFICATIONS. FOR PIPE LINING AND COATING, SEE SPECIFICATIONS.

J. PIPE MATERIALS SHALL BE PER THE REFERENCE STANDARDS AS MODIFIED BY THE CONTRACT SPECIFICATIONS.

K. EXPOSED PIPING SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS. COLORS TO BE SELECTED BY THE OWNER.

TYPICAL PIPE DESIGNATION:



REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

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TULALIP TRIBES

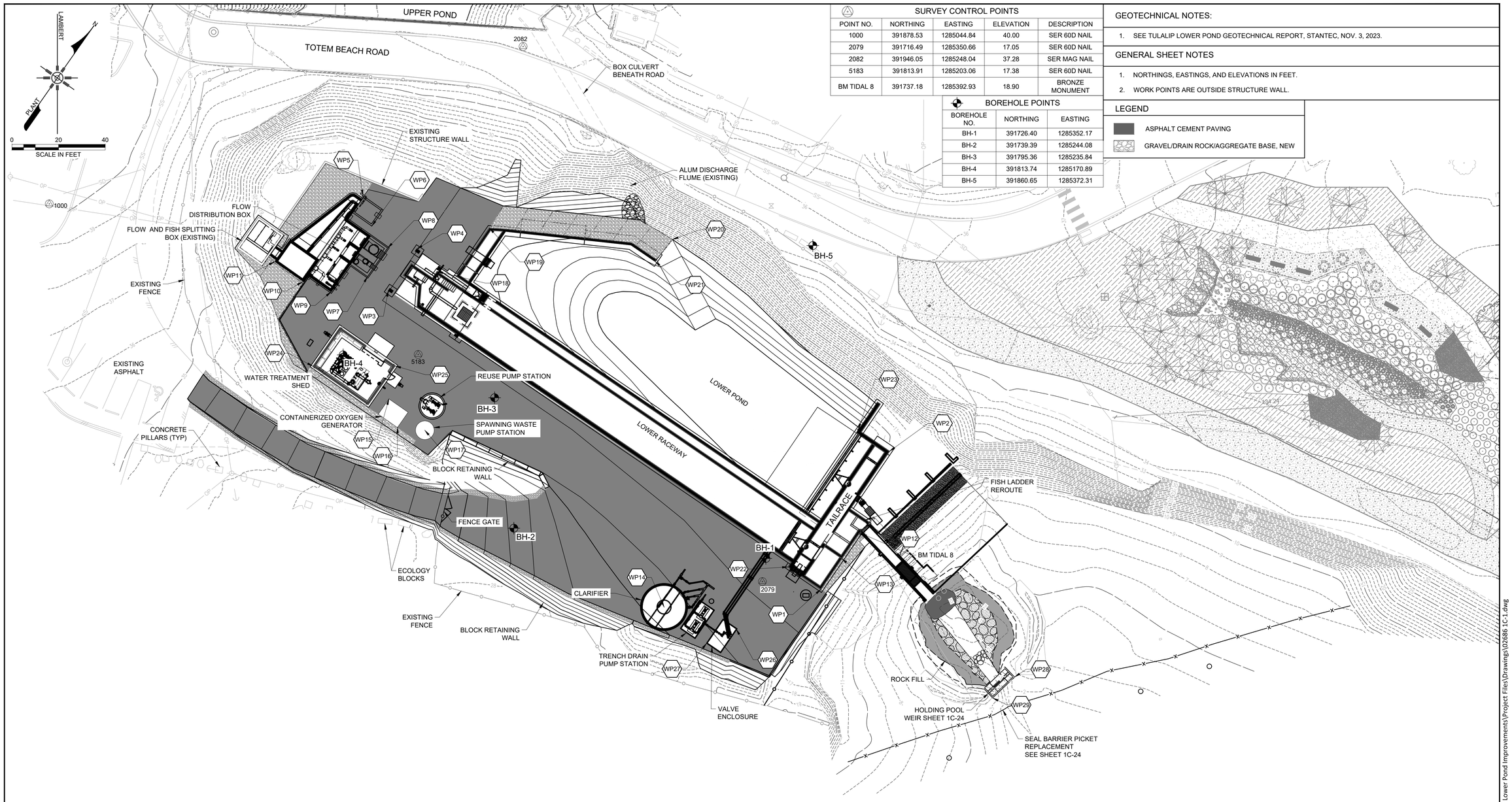
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

PIPE TABLE

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
GC-8

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SURVEY CONTROL POINTS

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	391878.53	1285044.84	40.00	SER 60D NAIL
2079	391716.49	1285350.66	17.05	SER 60D NAIL
2082	391946.05	1285248.04	37.28	SER MAG NAIL
5183	391813.91	1285203.06	17.38	SER 60D NAIL
BM TIDAL 8	391737.18	1285392.93	18.90	BRONZE MONUMENT

BOREHOLE POINTS

BOREHOLE NO.	NORTHING	EASTING
BH-1	391726.40	1285352.17
BH-2	391739.39	1285244.08
BH-3	391795.36	1285235.84
BH-4	391813.74	1285170.89
BH-5	391860.65	1285372.31

GEOTECHNICAL NOTES:

1. SEE TULALIP LOWER POND GEOTECHNICAL REPORT, STANTEC, NOV. 3, 2023.

GENERAL SHEET NOTES

1. NORTHINGS, EASTINGS, AND ELEVATIONS IN FEET.
2. WORK POINTS ARE OUTSIDE STRUCTURE WALL.

LEGEND

- ASPHALT CEMENT PAVING
- GRAVEL/DRAIN ROCK/AGGREGATE BASE, NEW

SITE PLAN

SCALE: 1" = 20'

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SITE PLAN AND SURVEY CONTROL

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
1C-1

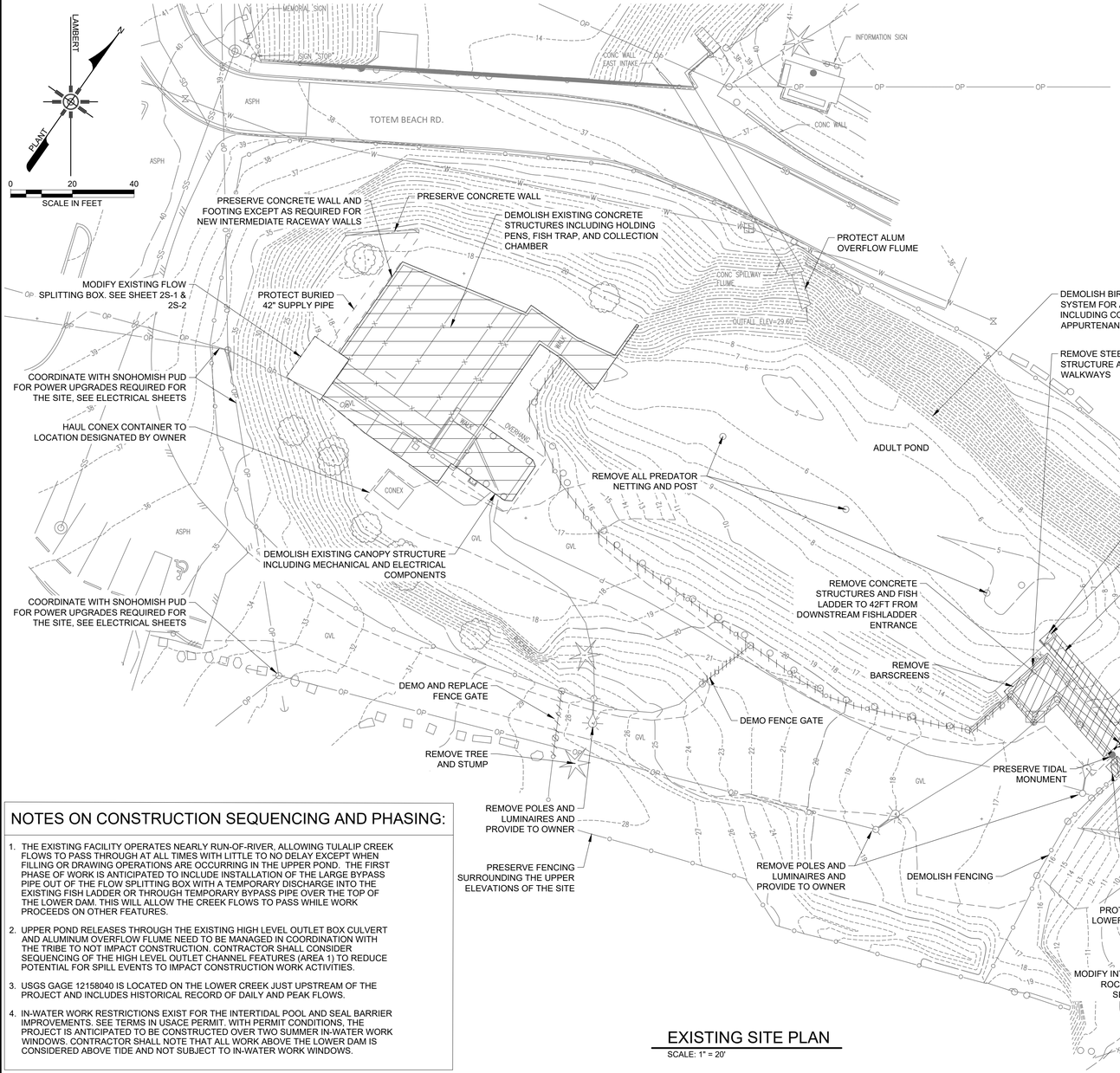
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LEGEND

DEMOLISH EXISTING

GENERAL SHEET NOTES

1. OFFER ALL COMPONENTS SUCH AS THE LADDERS, GRATING, OUTFALL FLUME, FISH LADDER SCREENS, HOISTS WITH WRITTEN CONFIRMATION.
2. PRESERVE THE FISH RELEASE PIPE SLIDE GATE AND STRUCTURE UNTIL TIDAL INFLOW CAN BE CONTROLLED WITH THE NEW TAILRACE FISH RELEASE PIPE SLIDE GATE.
3. IDENTIFY FENCE OR BARBED WIRE THAT WAS DAMAGED PRIOR TO CONSTRUCTION. THIS FENCING/GATES SHALL BE REPAIRED AFTER APPROVAL BY OWNER.
4. ABANDON THE 18" PIPE FROM THE FLOW SPLITTING BOX AS SOON AS POSSIBLE.



EXISTING SITE PLAN

SCALE: 1" = 20'





NOTES ON CONSTRUCTION SEQUENCING AND PHASING:

1. THE EXISTING FACILITY OPERATES NEARLY RUN-OF-RIVER, ALLOWING TULALIP CREEK FLOWS TO PASS THROUGH AT ALL TIMES WITH LITTLE TO NO DELAY EXCEPT WHEN FILLING OR DRAWING OPERATIONS ARE OCCURRING IN THE UPPER POND. THE FIRST PHASE OF WORK IS ANTICIPATED TO INCLUDE INSTALLATION OF THE LARGE BYPASS PIPE OUT OF THE FLOW SPLITTING BOX WITH A TEMPORARY DISCHARGE INTO THE EXISTING FISH LADDER OR THROUGH TEMPORARY BYPASS PIPE OVER THE TOP OF THE LOWER DAM. THIS WILL ALLOW THE CREEK FLOWS TO PASS WHILE WORK PROCEEDS ON OTHER FEATURES.
2. UPPER POND RELEASES THROUGH THE EXISTING HIGH LEVEL OUTLET BOX CULVERT AND ALUMINUM OVERFLOW FLUME NEED TO BE MANAGED IN COORDINATION WITH THE TRIBE TO NOT IMPACT CONSTRUCTION. CONTRACTOR SHALL CONSIDER SEQUENCING OF THE HIGH LEVEL OUTLET CHANNEL FEATURES (AREA 1) TO REDUCE POTENTIAL FOR SPILL EVENTS TO IMPACT CONSTRUCTION WORK ACTIVITIES.
3. USGS GAGE 12158040 IS LOCATED ON THE LOWER CREEK JUST UPSTREAM OF THE PROJECT AND INCLUDES HISTORICAL RECORD OF DAILY AND PEAK FLOWS.
4. IN-WATER WORK RESTRICTIONS EXIST FOR THE INTERTIDAL POOL AND SEAL BARRIER IMPROVEMENTS. SEE TERMS IN USACE PERMIT. WITH PERMIT CONDITIONS, THE PROJECT IS ANTICIPATED TO BE CONSTRUCTED OVER TWO SUMMER IN-WATER WORK WINDOWS. CONTRACTOR SHALL NOTE THAT ALL WORK ABOVE THE LOWER DAM IS CONSIDERED ABOVE TIDE AND NOT SUBJECT TO IN-WATER WORK WINDOWS.

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

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NOT FOR CONSTRUCTION

WARNING
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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SITE DEMOLITION PLAN

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
1C-2

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EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION GENERAL PERMIT UNDER THE (EPA) NATIONAL POLLUTANT DISCHARGE AND ELIMINATION SYSTEM (NPDES) PERMIT FROM THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY FOR THIS PROJECT. THE CONTRACTOR SHALL FILE A NOTICE OF INTENT (NOi) AND APPLY FOR A PERMIT 60 DAYS PRIOR TO DISCHARGING STORMWATER. THE CONTRACTOR SUBMIT THE PERMIT APPLICATION ON LINE FROM THE EPA WEBSITE AT: http://cfpub.epa.gov/npdes/npdesnoi.cfm.

2. THE CONTRACTOR SHALL USE ALL REASONABLE MEASURES TO MINIMIZE THE IMPACTS OF CONSTRUCTION ACTIVITY ON SURFACE AND GROUND WATERS. WATER QUALITY CONSTITUENTS OF PARTICULAR CONCERN ARE TURBIDITY, SUSPENDED SEDIMENTS, SETTLEABLE SOLIDS.

3. THE CONTRACTOR SHALL USE PROPER EROSION AND SEDIMENT CONTROL PRACTICES ON THE CONSTRUCTION SITE AND ADJACENT CONSTRUCTION STAGING AREAS TO PREVENT EROSION IN AND DOWNHILL OF DISTURBED AREAS, AND TO PREVENT THE DISCHARGE OF UPLAND SEDIMENTS OR SEDIMENT-LADEN WATER INTO THE WETLANDS, WATER BODIES, AND LOCAL DRAINAGE DITCHES. EXCEPT FOR TEMPORARILY SIDECAST OR TRENCH EXCAVATION, ALL STOCKPILES SHALL BE LOCATED NO CLOSER THAN 100 FEET FROM THE BOUNDARY OF ANY CRITICAL AREA AND SHALL NOT BE PLACED IN ANY UNDISTURBED AREA.

4. THE MEASURES SHOWN ON THESE PLANS ARE THE MINIMUM THAT ARE REQUIRED FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES AS NEEDED DUE TO WEATHER, AND/OR FIELD CONDITIONS, AND/OR CONSTRUCTION ACTIVITIES, AND/ OR AS DIRECTED BY THE ENGINEER.

5. THE CONTRACTOR SHALL NOT DISCHARGE TURBID WATER GENERATED FROM CONSTRUCTION ACTIVITIES, INCLUDING TURBID DEWATERING WATER, DIRECTLY TO THE CREEKS OR TO ANY OF THE DRAINAGE DITCHES THAT DRAIN TO THE CREEKS BEFORE THE SOLIDS HAVE SETTLED OUT OF THE WATERS. ALL SURFACE WATER FLOWS IN DITCHES, OR CULVERTS SHALL BE MAINTAINED, SUCH THAT FLOW IS NOT DISRUPTED DURING OR AFTER CONSTRUCTION. ANY INTENTIONAL DEWATERING DISCHARGES TO SURFACE WATERS MUST FIRST PASS THROUGH SEDIMENT TANKS (BAKER TANKS). THE MAXIMUM ALLOWABLE TURBIDITY IS 25 NTUS. THE APPROXIMATE TOTAL VOLUME OF TANKS REQUIRED EQUALS DEWATERING FLOW (GPM) X 16 = CUBIC FEET OF WET STORAGE REQUIRED. A FLOW METER MUST BE INSTALLED ON THE COMBINED DISCHARGE PIPE.

6. THE TESC'S SHALL REMAIN IN PLACE THROUGHOUT THE WORK. INSTALLED EROSION AND SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED UPON STABILIZATION OF DISTURBED AREAS AND WITH THE APPROVAL OF THE ENGINEER.

7. THE CONTRACTOR SHALL SEED, PLANT, COVER WITH PLASTIC, MULCH, OR PROVIDE SOME OTHER EQUIVALENT TYPE OF PROTECTION AGAINST EROSION TO ALL EARTHEN AREAS DISTURBED OR NEWLY CREATED BY THE PROJECT CONSTRUCTION.

8. THE CONTRACTOR SHALL PROVIDE REGULAR INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT ALL TIMES. THE CONTRACTOR SHALL REPAIR, REPLACE, AND INSTALL ADDITIONAL MEASURES SO THAT THEY ARE EFFECTIVE IN PREVENTING EROSION AND SEDIMENTATION.

9. AFTER ANY SIGNIFICANT RAINFALL, THE CONTRACTOR SHALL INSPECT SEDIMENT CONTROL STRUCTURES FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND REPAIRED IMMEDIATELY.

10. FOLLOWING CONSTRUCTION, THE CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION, THE DISTURBED AREAS, AND ACHIEVE AN ADEQUATE VEGETATIVE COVER BEFORE REMOVING ANY SEDIMENT TRAPS OR SETTLING BASINS AND THEIR ASSOCIATED TEMPORARY DIVERSION DITCHES. THE CONTRACTOR SHALL CLEAN OUT TEMPORARY SETTLING BASINS (SEDIMENT TRAPS) AND REMOVE THE SETTLED SEDIMENTS OR HYDROSEED THE AREA (IF IN BARE LAND) BEFORE REMOVING THE SETTLING BASINS. SETTLED SEDIMENTS SHALL NOT BE ALLOWED TO ENTER ANY STREAM OR DITCH AS A RESULT OF RUNOFF THAT MAY OCCUR AFTER CONSTRUCTION IS COMPLETED.

11. ALL TEMPORARY SURFACING OR OTHER APPROVED MATERIAL USED FOR TEMPORARY SURFACING OF THE CONSTRUCTION STAGING AND WORK AREAS SHALL BE REMOVED AND DISPOSED OF AT THE COMPLETION OF THE PROJECT. RESTORATION OF THE GROUND SURFACE SHALL BE COMPLETED IMMEDIATELY AFTER REMOVAL OF MATERIAL.

12. THE CONTRACTOR SHALL SET ASIDE A SEPARATE AREA ON SITE WHICH DOES NOT HAVE ANY POSSIBILITY OF DRAINING TO SURFACE WATERS, FOR THE WASH-OUT OF CONSTRUCTION EQUIPMENT AND TOOLS.

13. THE CONTRACTOR SHALL NOT DISCHARGE ANY CLEANING SOLVENTS OR CHEMICALS UTILIZED FOR TOOL OR EQUIPMENT CLEANING TO THE GROUND. REFUELING OF EQUIPMENT SHALL BE CONDUCTED AWAY FROM THE DRAINAGE DITCHES AND CRITICAL AREAS AND DONE IN SUCH A MANNER AS TO PREVENT SPILLS FROM ENTERING THE GROUNDWATER OR WATERBODIES (INCLUDING WETLANDS) ALL MOBILE EQUIPMENT MUST NOT BE REFUELED WITHIN THE CONSTRUCTION LIMITS OF THE AGRICULTURAL FIELDS OR WETLANDS.

14. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT ANY PETROLEUM PRODUCTS, CHEMICALS, OR OTHER TOXIC OR DELETERIOUS MATERIALS FROM ENTERING THE GROUNDWATER IN ANY MANNER. CONTRACTOR SHALL SUPPLY AND STOCK CHEMICAL SPILL KITS AT PROJECT SITE AT ALL TIMES.

15. ALL GROUNDWATER PUMPED FROM EXCAVATED TRENCHES SHALL BE TREATED IN PORTABLE SEDIMENT TANKS OR TEMPORARY SETTLING BASINS AND RELEASED AT LESS THAN 25 NTUS OF TURBIDITY.

16. TEST DECHLORINATED WATER TO VERIFY THAT A MAXIMUM CHLORINE RESIDUAL OF 0.0 MG/L AND A MINIMUM DISSOLVED OXYGEN LEVEL OF 1.0 PPM IS OBTAINED PRIOR TO DISCHARGING. DISCHARGE AREAS SHALL BE LOCATED AT LEAST 200 FEET FROM THE ON SITE CREEKS .

17. INSTALL BARRIER FENCE AND SILT PROTECTION ALONG PERIMETER OF WORK SITE AS SHOWN ON STAGING AND TESC PLANS.

18. DURING THE WET SEASON, FROM OCTOBER 1 THROUGH APRIL 30, FOR PROJECT AREAS OUTSIDE OF DESIGNATED WETLANDS THE PROJECT WILL FOLLOW SPECIAL EROSION CONTROL MEASURES AS SHOWN BELOW. THESE INCLUDE:
    - DENUDED AREAS AND SOILS EXPOSED FOR A PERIOD OF GREATER THAN 48 HOURS SHALL BE PROTECTED FROM POSSIBLE EROSION BY THE APPLICATION OF A COVER, MULCH OR OTHER SATISFACTORY METHOD OF STABILIZATION.
    - ALL INSTALLED EROSION CONTROL MEASURES , INCLUDING SILT FENCING, SEDIMENT TRAPS, CHECK DAMS AND STORMWATER DIVERSION BERMS/SWALES, SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER ANY RAINFALL EVENT GREATER THAN ONE INCH IN A 24-HOUR PERIOD. ACCUMULATED SEDIMENT SHALL BE REMOVED IMMEDIATELY AND REPAIRS MADE TO ANY DAMAGED OR MALFUNCTIONING EROSION CONTROL DEVICES.

19. INSTALL TEMPORARY COVER MEASURES OF DISTURBED SOILS NOT CURRENTLY BEING WORKED. FROM OCTOBER 1 TO APRIL 30 (WET SEASON), NO UNWORKED SOIL SHALL REMAIN EXPOSED FOR MORE THAN 48 HOURS. TEMPORARY MEASURES MAY INCLUDE SOD, STRAW MULCH, PLASTIC, AND/ OR HYDROSEEDING AS APPROVED BY THE OWNER.

20. THE IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN AND CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THE EROSION AND SEDIMENT CONTROL MEASURES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE UNTIL FINAL ACCEPTANCE BY THE OWNER AND ALL PERMITS RELATED TO TEMPORARY EROSION AND SEDIMENT CONTROL ARE TERMINATED.

21. THE CONTRACTOR SHALL SUBMIT AND HAVE A DETAILED STORM WATER POLLUTION PREVENTION PLAN, STAMPED AND SIGNED BY A CESCL REGISTERED IN THE STATE OF WASHINGTON ACCEPTED BY THE OWNER AND SHALL INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (TESC's) PRIOR TO PERFORMING ANY CLEARING OR OTHER EARTH DISTURBING ACTIVITIES AT THE PROJECT SITE.

22. THE CONTRACTOR SHALL FOLLOW AND IMPLEMENT ALL SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL SPECIFIED IN THE CONTRACT DOCUMENTS. ADJUSTMENTS TO PLANNED EROSION AND SEDIMENT CONTROL MAY BE NECESSARY TO SUCCESSFULLY CONTROL SILTATION FROM THE SITE WHICH IS NOT COVERED UNDER THIS TEMPORARY EROSION AND SEDIMENT CONTROL PLAN.

23. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THIS DRAWING SHALL BE INSTALLED PRIOR TO OR AS THE FIRST STAGE OF SITE PREPARATION.

24. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS DRAWING NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING THE CLEARING LIMITS AND ESTABLISHING THOSE BOUNDARIES WITH BRIGHT COLORED FLAGGING. THE CONTRACTOR SHALL CLEAR TO THE LIMITS AS ESTABLISHED ON THIS PLAN AND AS APPROVED.

26. IF THE STABILIZED CONSTRUCTION ENTRANCE IS NOT PREVENTING THE SPREAD OF SOIL OFF OF THE SITE (TRACKOUT), THEN THE CONTRACTOR SHALL PROVIDE STREET SWEEPING ON ADJACENT PAVED SURFACES AND EVALUATE THE CONSTRUCTION ENTRANCE FOR REPLACEMENT.

27. CONCRETE WASH WATER SHALL BE HAULED OFF-SITE AND DISPOSED AT A LOCATION WHERE IT CAN NOT ENTER SURFACE WATERS. IF CONCRETE WASH WATER IS COMBINED WITH GENERAL DEWATERING FLOW, THEN DAILY SAMPLING FOR PH IS REQUIRED.

TESC CONSTRUCTION SEQUENCE

THE FOLLOWING CONSTRUCTION SEQUENCE PROVIDES A CONCEPTUAL APPROACH TO THE CONSTRUCTION ACTIVITIES REQUIRED BY THIS PROJECT. THE CONTRACTOR IS REQUIRED TO SUBMIT A MORE DETAILED CONSTRUCTION SCHEDULE AS PART OF THE TESC PLAN AS DEFINED IN THE CONTRACT DOCUMENTS. THE SEQUENCE OF CONSTRUCTION INCLUDES PRECONSTRUCTION ACTIVITIES AND TESC CONSTRUCTION.

PRECONSTRUCTION TESC ACTIVITIES

1. PREPARE CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ALSO KNOWN AS A TEMPORARY EROSION AND SEDIMENT CONTROL PLAN (TESC PLAN).
2. PREPARE SPILL PREVENTION, CONTROL AND COUNTER MEASURE PLAN.
3. ATTEND PRECONSTRUCTION CONFERENCE.

TESC CONSTRUCTION

1. CLEARLY FLAG THE LIMITS OF CONSTRUCTION SHOWN ON THE DRAWINGS AND ESTABLISH STAGING AREA LIMITS.
2. WITHIN THE LIMITS OF CONSTRUCTION, FLAG ALL TREES TO BE SAVED AND OTHER VEGETATION TO REMAIN UNDISTURBED FOR THE APPROVAL OF THE ENGINEER.
3. CONSTRUCT ACCESS ROAD(S) AND INSTALL STABILIZED CONSTRUCTION ENTRANCE(S) AS SHOWN ON THE DRAWINGS.
4. INSTALL TEMPORARY SILT FENCING AS SHOWN ON THE DRAWINGS.
5. INSTALL SOIL PROTECTION MEASURES IN WETLANDS AS DESCRIBED IN CONTRACT DOCUMENTS.
6. PERFORM SITE GRADING.
7. UPON COMPLETION OF THE PROJECT, STABILIZE AND RESEED/REPLANT ALL DISTURBED AREAS.
8. PERFORM FINAL CLEAN UP.
9. REMOVE AND DISPOSE OF TESC BMPS.

REV	DATE	BY	DESCRIPTION
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TULALIP TRIBES

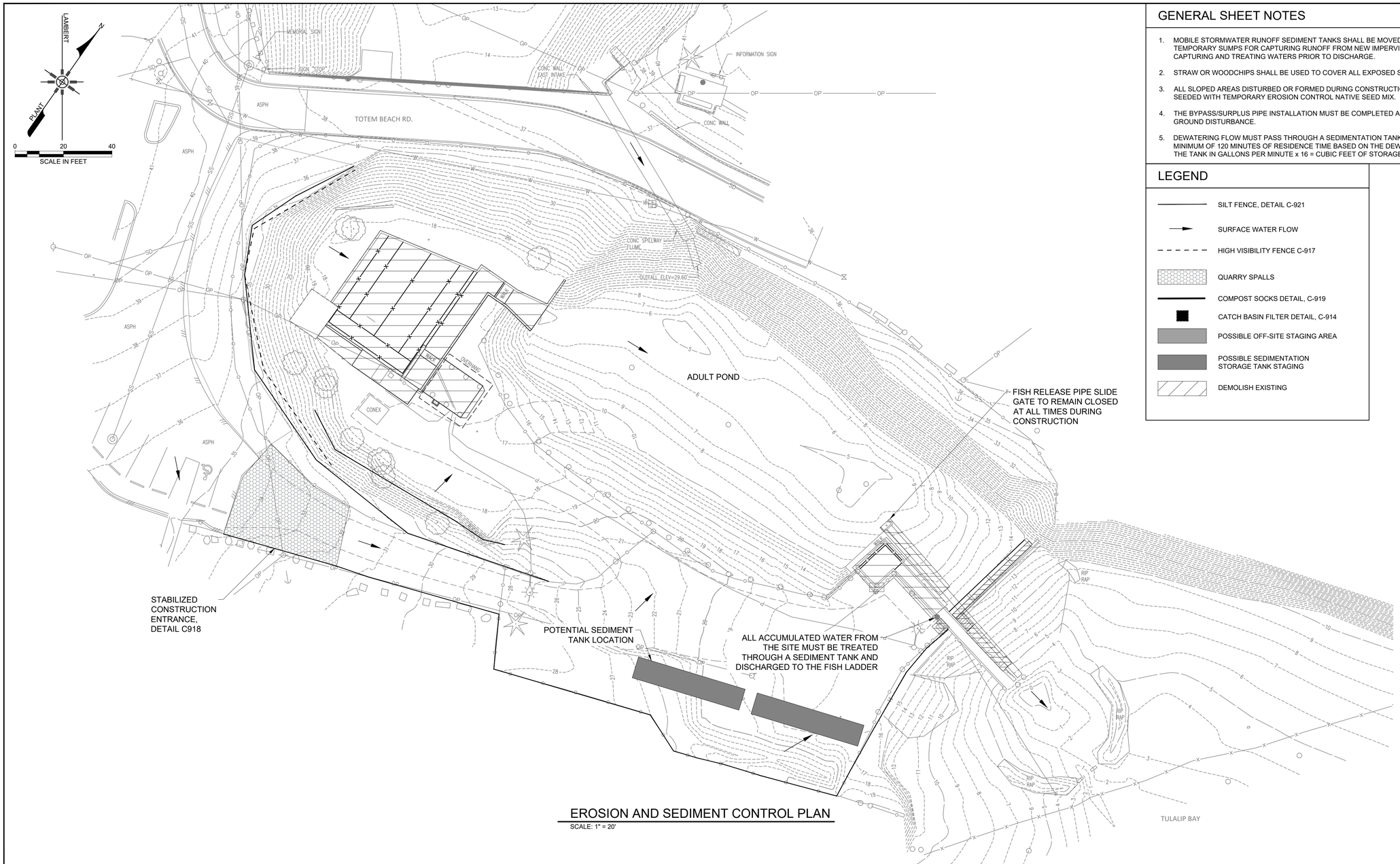
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

EROSION AND SEDIMENT CONTROL NOTES

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
1C-3

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EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 20'

GENERAL SHEET NOTES

1. MOBILE STORMWATER RUNOFF SEDIMENT TANKS SHALL BE MOVED AROUND THE SITE AS NEEDED. TEMPORARY SUMPS FOR CAPTURING RUNOFF FROM NEW IMPERVIOUS SURFACES WILL BE USED FOR CAPTURING AND TREATING WATERS PRIOR TO DISCHARGE.
2. STRAW OR WOODCHIPS SHALL BE USED TO COVER ALL EXPOSED SOIL NOT ACTIVELY BEING WORKED.
3. ALL SLOPED AREAS DISTURBED OR FORMED DURING CONSTRUCTION SHALL BE HYDROSEEDED OR HAND SEEDED WITH TEMPORARY EROSION CONTROL NATIVE SEED MIX.
4. THE BYPASS/SURPLUS PIPE INSTALLATION MUST BE COMPLETED AND THE PIPE TESTED PRIOR TO ANY OTHER GROUND DISTURBANCE.
5. DEWATERING FLOW MUST PASS THROUGH A SEDIMENTATION TANK(S) WITH THE VOLUME TO PROVIDE A MINIMUM OF 120 MINUTES OF RESIDENCE TIME BASED ON THE DEWATERING FLOW RATE. DESIGN INFLOW TO THE TANK IN GALLONS PER MINUTE x 16 = CUBIC FEET OF STORAGE REQUIRED.

LEGEND

- SILT FENCE, DETAIL C-921
- SURFACE WATER FLOW
- HIGH VISIBILITY FENCE C-917
- QUARRY SPALLS
- COMPOST SOCKS DETAIL, C-919
- CATCH BASIN FILTER DETAIL, C-914
- POSSIBLE OFF-SITE STAGING AREA
- POSSIBLE SEDIMENTATION STORAGE TANK STAGING
- DEMOLISH EXISTING

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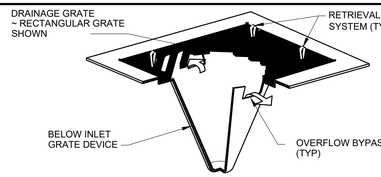
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

EROSION AND SEDIMENT CONTROL PLAN

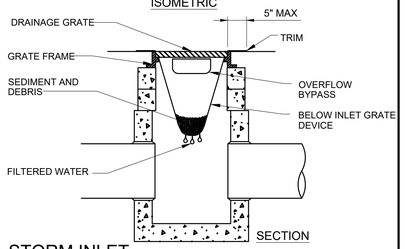
DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
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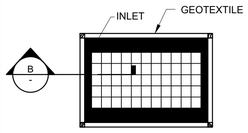


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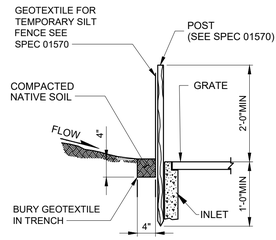
SECTION

C-914 STORM INLET PROTECTION



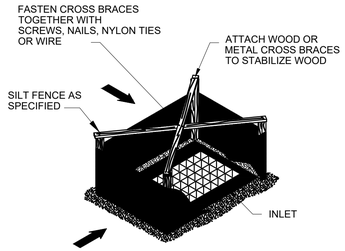
PLAN

(CROSS BRACES NOT SHOWN)



SECTION B

C-915 TEMPORARY SILT FENCE FOR INLET PROTECTION

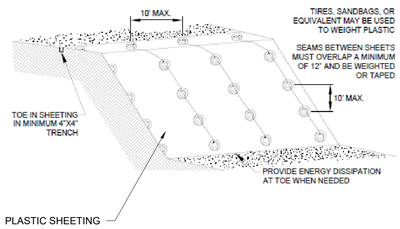


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NOTES:

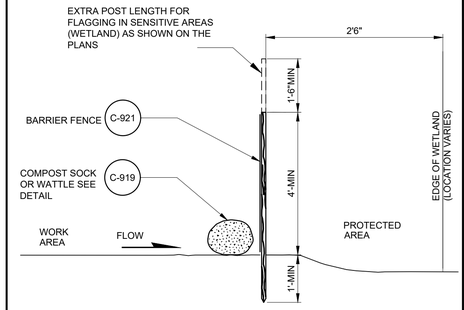
1. PREFABRICATED UNITS MAY BE USED IN LIEU OF THE DESIGN SHOWN ON THIS PLAN UPON APPROVAL OF THE ENGINEER.
2. STRUCTURE SHALL BE CONSTRUCTED SUCH THAT GEOTEXTILE MATERIAL SHALL BE FASTENED TO POSTS CREATING A SEAMLESS JOINT.
3. ENSURE THAT PONDING HEIGHT OF WATER DOES NOT CAUSE FLOODING ON ADJACENT ROADWAYS OR PRIVATE PROPERTY.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH SPECIFICATION 01570.



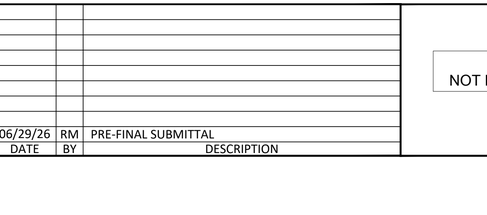
NOTES

1. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 0.06 MILLIMETERS.
2. EROSION PROTECTION SHALL BE INSTALLED AT THE TOE OF A SLOPE. A GRAVEL BERM, RIPRAP, OR OTHER SUITABLE PROTECTION SHALL BE INSTALLED AT THE TOE OF THE SLOPE IN ORDER TO REDUCE THE VELOCITY OF RUNOFF.

C-916 STOCKPILE COVER



C-917 HIGH VISIBILY FENCE AND SILT PROTECTION



ISOMETRIC

NOTES:

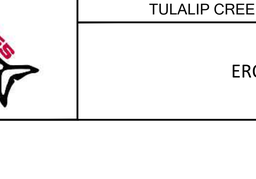
1. GEOTEXTILE MIRAFI 500X OR APPROVED EQUAL SHALL BE PLACED UNDER THE ENTIRETY OF THE TEMPORARY ENTRANCE.
2. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
3. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE'S WHEELS. THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.
4. REGRADE AND ADD ROCK OVER CONSTRUCTION AS NEEDED.

C-918 STABILIZED CONSTRUCTION ENTRANCE

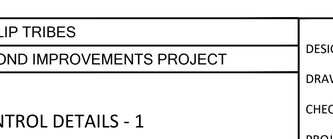


PLAN

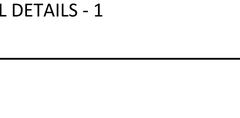
SLOP INSTALLATION



A - SECTION



B - TYPICAL SECTION COMPOST SOCK DETAIL



ISOMETRIC

CATCH BASIN INSTALLATION

NOTES:

1. COMPOST SOCK/WATTLE SHALL BE IN ACCORDANCE WITH SPECIFICATION 01570. COMPOST SOCK SHALL BE A MINIMUM OF 8" IN DIAMETER OR SIZED TO SUIT CONDITIONS AS SPECIFIED BY THE ENGINEER.
2. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
3. WHEN PLACING COMPOST SOCK/WATTLE ON SLOPES. USE EROSION CONTROL BLANKET IF SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH SPECIFICATION 01570.
4. ALWAYS INSTALL COMPOST SOCK/WATTLE PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.
5. REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK/WATTLE WHEN ACCUMULATION REACHED 1/2 OF EFFECTIVE HEIGHT OF THE COMPOST SOCK.
6. LIVE STAKES CAN BE USED IN ADDITION TO WOODEN STAKES AND SHALL BE IN ACCORDANCE WITH SPECIFICATION 01570. SEE PLANS FOR SPECIES SELECTION AND SPACING.

C-919 COMPOST SOCK/WATTLE STANDARD PLAN

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TULALIP TRIBES

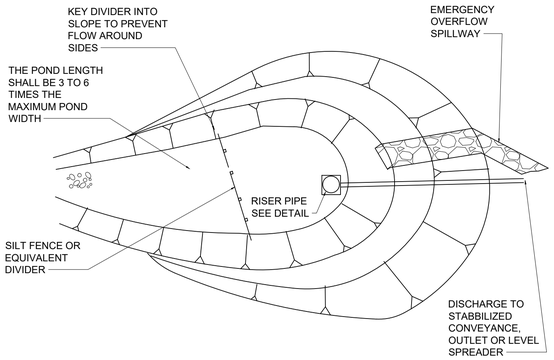
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

EROSION CONTROL DETAILS - 1

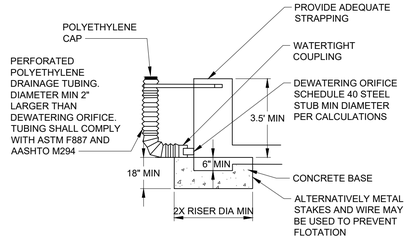
DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
1C-5

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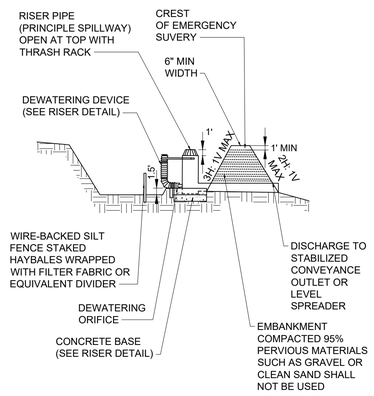
C-920 TYPICAL TEMPORARY SEDIMENT POND LAYOUT



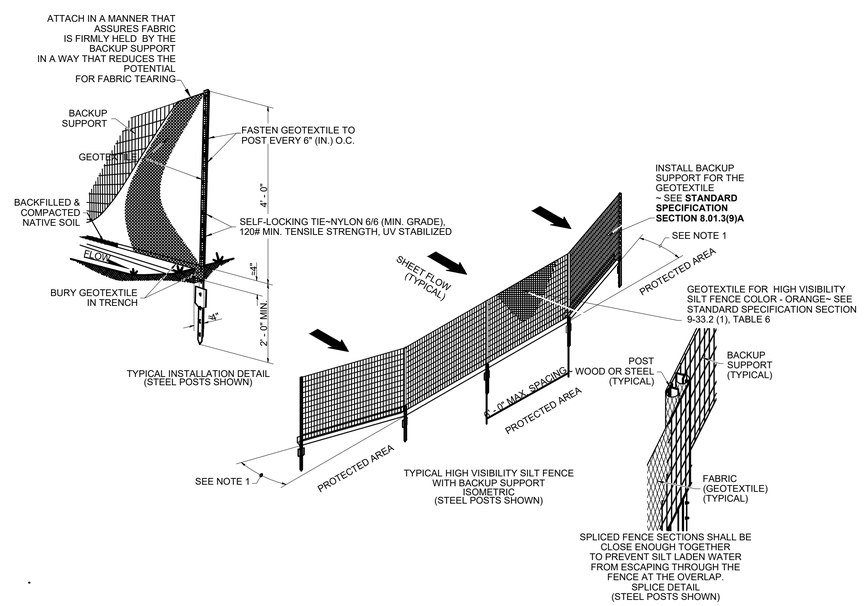
RISER PIPE DETAIL

NOTES:

1. TEMPORARY SEDIMENT POND DETAIL BASED ON WASHINGTON STATE DEPT. OF ECOLOGY BMP C241
2. SEE 2014 WASHINGTON STATE STORMWATER MANAGEMENT MANUAL FOR ADDITIONAL INFORMATION.



SECTION THROUGH SPILLWAY



NOTES

1. INSTALL THE ENDS OF THE HIGH VISIBILITY SILT FENCE TO POINT SLIGHTLY UPSLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
2. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATIONS 8-01.3(9)A AND 8-01.3(15).
3. SPLICES SHALL NEVER BE PLACED IN LOW SPOTS OR SUMP LOCATIONS. IF SPLICES ARE LOCATED IN LOW OR SUMP AREAS, THE FENCE MAY NEED TO BE REINSTALLED UNLESS THE PROJECT ENGINEER APPROVES THE INSTALLATION.
4. INSTALL SILT FENCING PARALLEL TO MAPPED CONTOUR LINES.
5. MAXIMIZE DETENTION OF STORMWATER BY PLACING FENCE AS FAR AWAY FROM TOE OF SLOPE AS POSSIBLE WITHOUT ENCROCHING ON SENSITIVE AREAS OR OUTSIDE OF THE CLEANING BOUNDARIES .

C-921 HIGH VISIBILITY SILT FENCE

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TULALIP TRIBES

TULALIP TRIBES

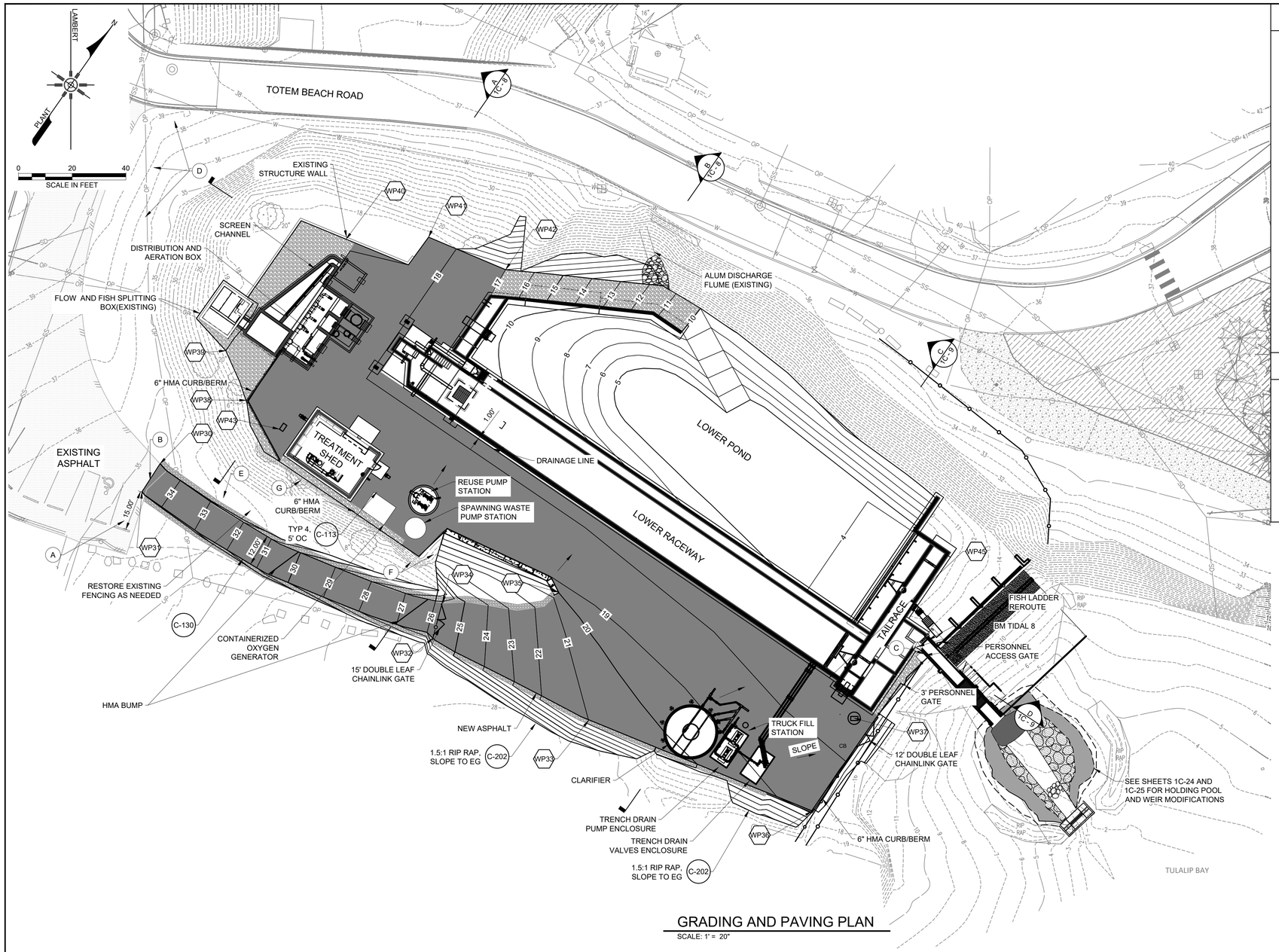
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

EROSION CONTROL DETAILS - 2

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
1C-6

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GRADING AND PAVING PLAN

SCALE: 1" = 20"

GENERAL SHEET NOTES

1. AT THE COMPLETION OF CONSTRUCTION APPLY STOCKPILED NATIVE TOPSOIL OR IMPORTED TOPSOIL AND APPLY 4" LAYER OF FINE COMPOST (WSDOT 9-14(8)) TO ANY SOIL DISTURBED AND NOT PAVED OR FINISHED WITH GRAVEL.
2. HYDROSEED OR HAND SEED OVER FINE COMPOST WITH NATIVE SEED MIX IN ACCORDANCE WITH SECTION 31 35 28.
3. AREAS DISTURBED BELOW THE EXISTING LOWER DAM FENCELINE SHALL BE RESTORED WITH CRUSHED SURFACING BASE COARSE.
4. SEE PREDATOR EXCLUSION SHEETS FOR CHAINLINK FENCING SURROUNDING STRUCTURES.
5. ALL GATES SHALL HAVE COMMERCIAL LOCKING LATCHES.
6. BARBED WIRE TOP SECURITY FENCING REQUIRED AT ALL LOCATIONS.
7. CONTRACTOR TO PROOF ROLL THE BASE OF ANY EXCAVATION OR UTILIZE 1/8" MANUAL PUSHROD TO TEST SOIL FOR ANY SOFT AND YIELDING AREAS WHICH MAY REQUIRE OVER EXCAVATION AND REPLACEMENT WITH STRUCTURAL FILL. COORDINATE WITH GEOTECHNICAL ENGINEER TO OBSERVE PROOFROLLING.
8. MAINTAIN GROUNDWATER TABLE ELEVATION A MINIMUM OF 24" BELOW THE BOTTOM OF ALL EXAVATIONS. SEE GEOTECHNICAL REPORT.
9. ACCESS ROAD ASPHALT ROAD SECTION DETAIL AGGREGATE BASE SHOULDER REDUCED TO 2' IN WIDTH.
10. SEE WORKPOINTS TABLE FOR PAVING EXTENTS, PAVING TRANSITIONS TO STRUCTURES IN ALL OTHER LOCATIONS.
11. SEE SHEET 1C-20 FOR RETAINING WALL WORKPOINTS TABLE..
12. CONTRACTOR TO PAVE CURVES AND CORNERS ACCORDING TO SITE CONDITIONS.
13. ACCESS ROAD AND CURVE RADIUS ARE INTENDED TO MAINTAIN SLOPES TO A MAXIMUM OF 15%.
14. VAULT LIDS SHALL EXTEND 1/2" ABOVE FINISHED PAVING.
15. TREATMENT SHED DOWNSPOUTS TO BE DIRECTED ONTO ASPHALT PAVING.

KEY NOTES

A. MAINTAIN 15' PARKING SPACE.
B. SAWCUT 12" BEYOND EXISTING ASPHALT PAVED EDGE. FILL TRANSITION OF NEW TO EXISTING ASPHALT WITH TACK COAT JOINT SEALER.
C. EXTEND GRAVEL BELOW PROPOSED STEEL STAIRS.
D. RESTORE EXISTING FENCING AS NEEDED.
E. NEW FENCING TO MATCH EXISTING ALIGNMENT.
F. EXISTING ROCK RETAINING WALL. PROTECT AND CLEAR VEGETATION.

PAVING WORK POINT TABLE

POINT NO	NORTHING	EASTING	DESCRIPTION
WP30A	391805.37	1285110.85	BEGIN ACCESS RD. NORTH
WP31A	391794.99	1285104.15	BEGIN ACCESS RD. SOUTH
WP32A	391740.45	1285212.47	ENTRANCE GATE SOUTH
WP33A	391710.20	1285270.27	END ACCESS RD. SOUTH
WP34A	391753.62	1285216.25	ENTRANCE GATE NORTH
WP35A	391757.59	1285259.23	END ACCESS RD. NORTH
WP36	391675.98	1285353.41	CENTER OF GRADING
WP37	391710.65	1285369.33	CENTER OF CATCHBASIN CB1

SEE SHEET 1C-20 FOR RETAINING WALL WORK POINTS

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TULALIP TRIBES

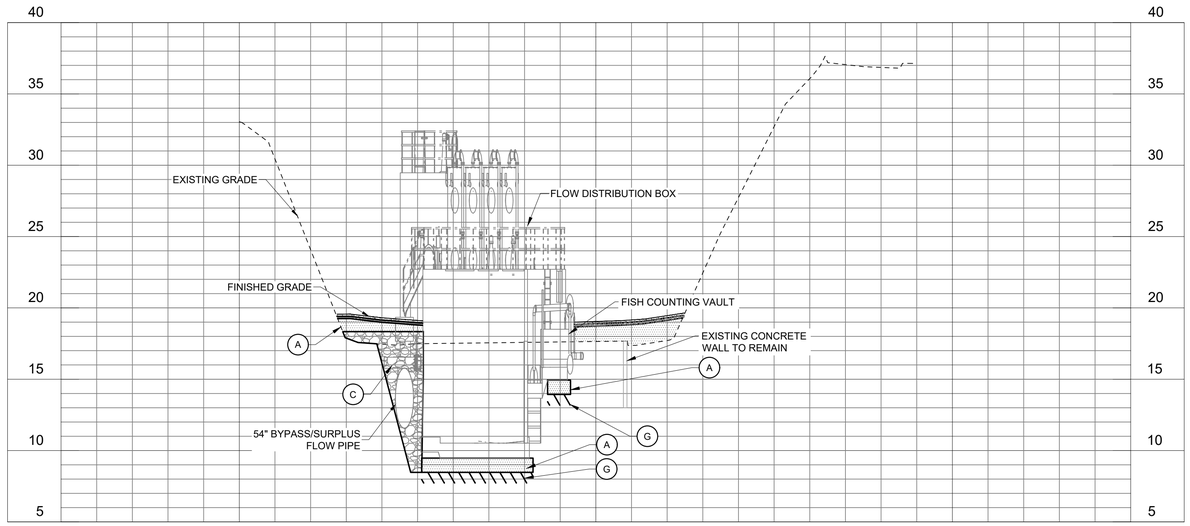
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

GRADING AND PAVING PLAN

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

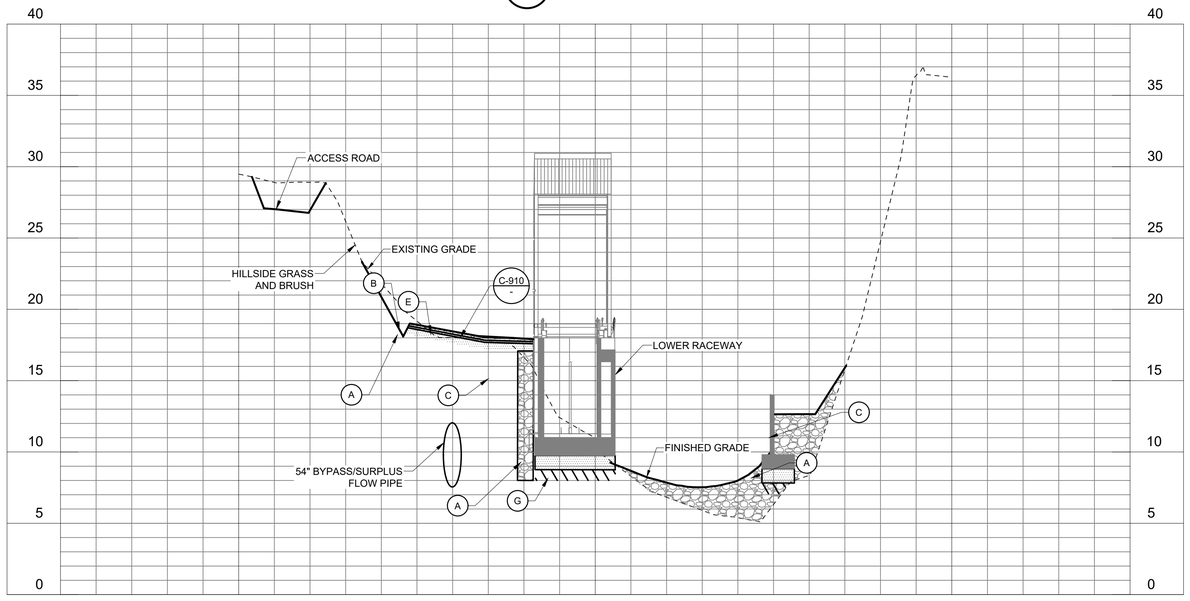
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A 1C-7 SECTION A

SCALE: H: 1"= 20' V: 1"= 5'



B 1C-7 SECTION B

SCALE: H: 1"= 20' V: 1"= 5'

GENERAL SHEET NOTES

1. WHERE FILL IS REQUIRED GREATER THAN 12" DEPTH UTILIZE GRAVEL BORROW EXCEPT WHERE INDICATED.
2. UTILIZE CRUSHED SURFACING BASE COURSE FOR FILL IN AREAS LESS THAN 12" IN DEPTH.
3. ALL WEATHERED AND UNSUITABLE SOIL PRESENT BELOW STRUCTURES AND PAVED AREAS MUST BE WASTEHAULED OFF SITE.
4. NATIVE SOIL WILL NOT BE CONSIDERED ACCEPTABLE AS GRAVEL BORROW.
5. ALLEY SECTION AND LOWER SITE PAVED AREA INCLUDES 3" HMA OVER 2" LIFT OF CRUSHED SURFACING TOP COURSE OVER A 4" LIFT OF CRUSHED SURFACING BASE COARSE (CSBC).
6. ALL STRUCTURES REQUIRE 12" CSBC UNDER THE SLAB EXCEPT WHERE NOTED. COMPACTED CSBC EXTENDS 12" OUTSIDE OF ALL FOOTINGS AND SLABS.
7. MINIMUM LATERAL EXTENT OF FILL MATERIAL ADJACENT TO THE WALLS OF STRUCTURES IS 12". ACTUAL EXTENT OF FILL MATERIALS WILL DEPEND UPON THE CONTRACTOR'S EXCAVATION, SHORING, AND SLOPING.
8. CONTRACTOR IS ENTIRELY RESPONSIBLE FOR PROTECTION OF THE EXCAVATION AGAINST CAVING OR SETTLING OF THE BANKS AND FOR ALL DAMAGE TO PAVEMENT, STRUCTURES, FENCES, AND OTHER PROPERTY. CONTRACTOR MUST PROTECT THE SIDES OF THE EXCAVATION BY USING INTERLOCKED SHEETING AND BRACING OR OTHER SHORING AS MAY BE NECESSARY.

KEY NOTES

A. WSDOT 9-03.9(3) CRUSHED SURFACING BASE COURSE COMPACTED IN A MAXIMUM OF 6" LIFTS (AGGREGATE SUB-BASE).

B. WSDOT 9-03.9(3) CRUSHED SURFACING TOP COURSE COMPACTED IN A MAXIMUM OF 2" LIFTS (AGGREGATE BASE).

C. WSDOT 9-03.9(1) GRAVEL BORROW COMPACTED IN MAXIMUM OF 6" LIFTS.

D. WSDOT 9-03.1B(4) GRAVEL BACKFILL FOR DRAINS SEE SITE DRAINAGE PLAN 1C-16.

E. WSDOT 9-03.8 HOT MIX ASPHALT (HMA).

F. NON-WOVEN GEOTEXTILE BETWEEN EXISTING SOIL AND IMPORTED AGGREGATE. SEE SECTION 31 34 19.

G. PREPARED NATIVE SUBGRADE.

HORZ 0 20 40
VERT 0 5 10
SCALE IN FEET

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TULALIP TRIBES

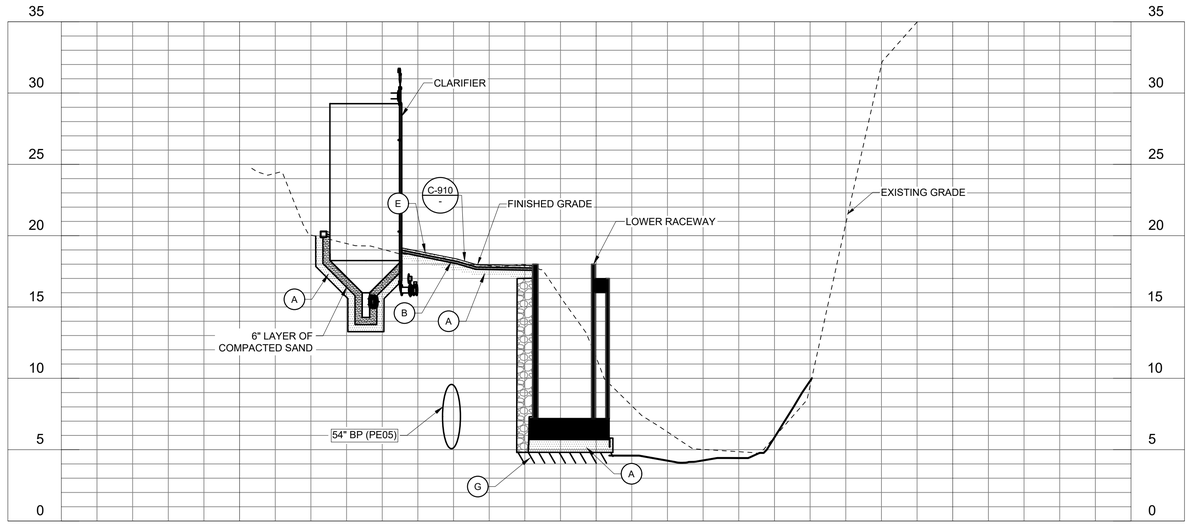
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

GRADING SECTIONS - 1

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

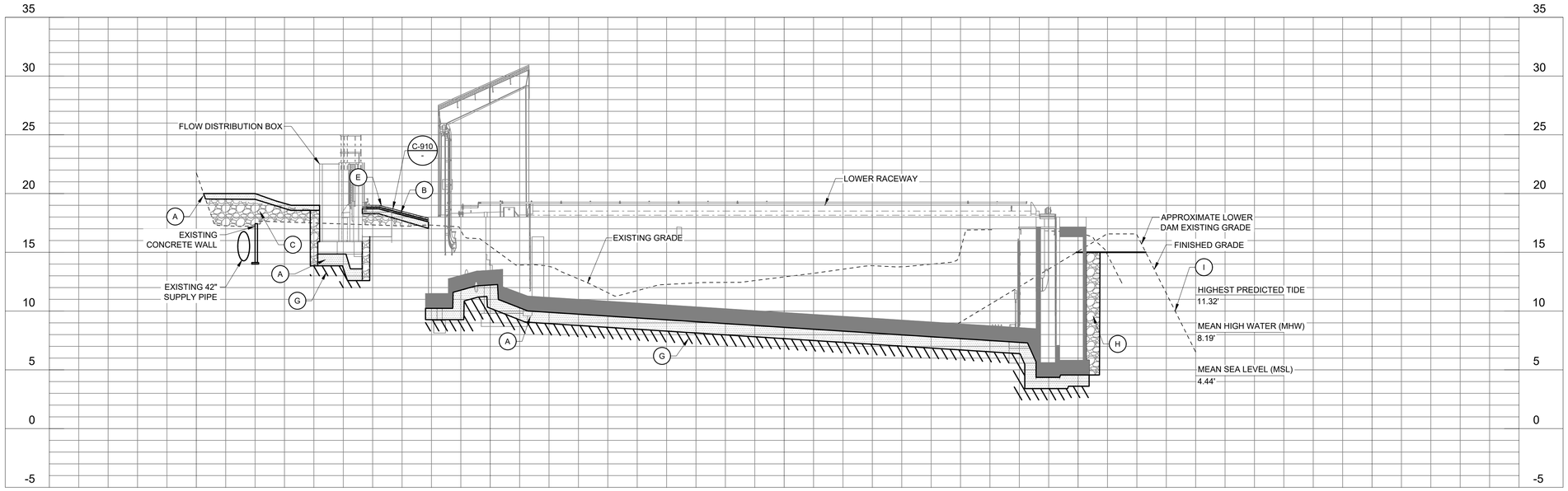
DRAWING
1C-8

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C 1C-7 SECTION C

SCALE: H: 1"= 20' V: 1"= 5'



D 1C-7 SECTION D

SCALE: H: 1"= 20' V: 1"= 5'

GENERAL SHEET NOTES

1. WHERE FILL IS REQUIRED GREATER THAN 12" DEPTH UTILIZE GRAVEL BORROW EXCEPT WHERE INDICATED.
2. UTILIZE CRUSHED SURFACING BASE COURSE FOR FILL IN AREAS LESS THAN 12" IN DEPTH.
3. ALL WEATHERED AND UNSUITABLE SOIL PRESENT BELOW STRUCTURES AND PAVED AREAS MUST BE WASTEHAULED OFF SITE.
4. NATIVE SOIL WILL NOT BE CONSIDERED ACCEPTABLE AS GRAVEL BORROW
5. ALLEY SECTION AND LOWER SITE PAVED AREA INCLUDES 3" HMA OVER 2" LIFT OF CRUSHED SURFACING TOP COURSE OVER A 4" LIFT OF CRUSHED SURFACING BASE COARSE (CSBC)
6. ALL STRUCTURES REQUIRE 12" CSBC UNDER THE SLAB EXCEPT WHERE NOTED. COMPACTED CSBC EXTENDS 12" OUTSIDE OF ALL FOOTINGS AND SLABS
7. MINIMUM LATERAL EXTENT OF FILL MATERIAL ADJACENT TO THE WALLS OF STRUCTURES IS 24". ACTUAL EXTENT OF FILL MATERIALS WILL DEPEND UPON THE CONTRACTOR'S EXCAVATION, SHORING, AND SLOPING.
8. MHW AND MSL SHOWN IN NAVD88 DATUM CONSISTENT WITH OTHER PROJECT ELEVATIONS TIDAL STATION 9447773, TULALIP.
9. CONTRACTOR IS ENTIRELY RESPONSIBLE FOR PROTECTION OF THE EXCAVATION AGAINST CAVING OR SETTLING OF THE BANKS AND FOR ALL DAMAGE TO PAVEMENT, STRUCTURES, FENCES, AND OTHER PROPERTY. CONTRACTOR MUST PROTECT THE SIDES OF THE EXCAVATION BY USING INTERLOCKED SHEETING AND BRACING OR OTHER SHORING AS MAY BE NECESSARY.

◯ KEY NOTES

A. WSDOT 9-03.9(3) CRUSHED SURFACING BASE COURSE COMPACTED IN A MAXIMUM OF 6" LIFTS (AGGREGATE SUB-BASE)
B. WSDOT 9-03.9(3) CRUSHED SURFACING TOP COURSE COMPACTED IN A MAXIMUM OF 2" LIFTS (AGGREGATE BASE)
C. WSDOT 9-03.9(1) GRAVEL BORROW COMPACTED IN MAXIMUM OF 6" LIFTS
D. WSDOT 9-03.12(4) GRAVEL BACKFILL FOR DRAINS SEE SITE DRAINAGE PLAN 1C-16
E. WSDOT 9-03.8 HOT MIX ASPHALT (HMA)
F. NON-WOVEN GEOTEXTILE BETWEEN EXISTING SOIL AND IMPORTED AGGREGATE. SEE SECTION 31 34 19
G. PREPARED NATIVE SUBGRADE.
H. CONTRACTOR SHALL SUBMIT TO THE ENGINEER, SHOP DRAWINGS AND CALCULATIONS FOR THE DESIGN AND INSTALLATION OF A TEMPORARY SHORING SYSTEM. THE DRAWINGS AND CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.
I. NO EXCAVATION SHALL OCCUR ALONG THE SHORELINE BELOW THE ELEVATION CONTOUR OF 10.0'.

HORZ 0 20 40
VERT 0 5 10
SCALE IN FEET

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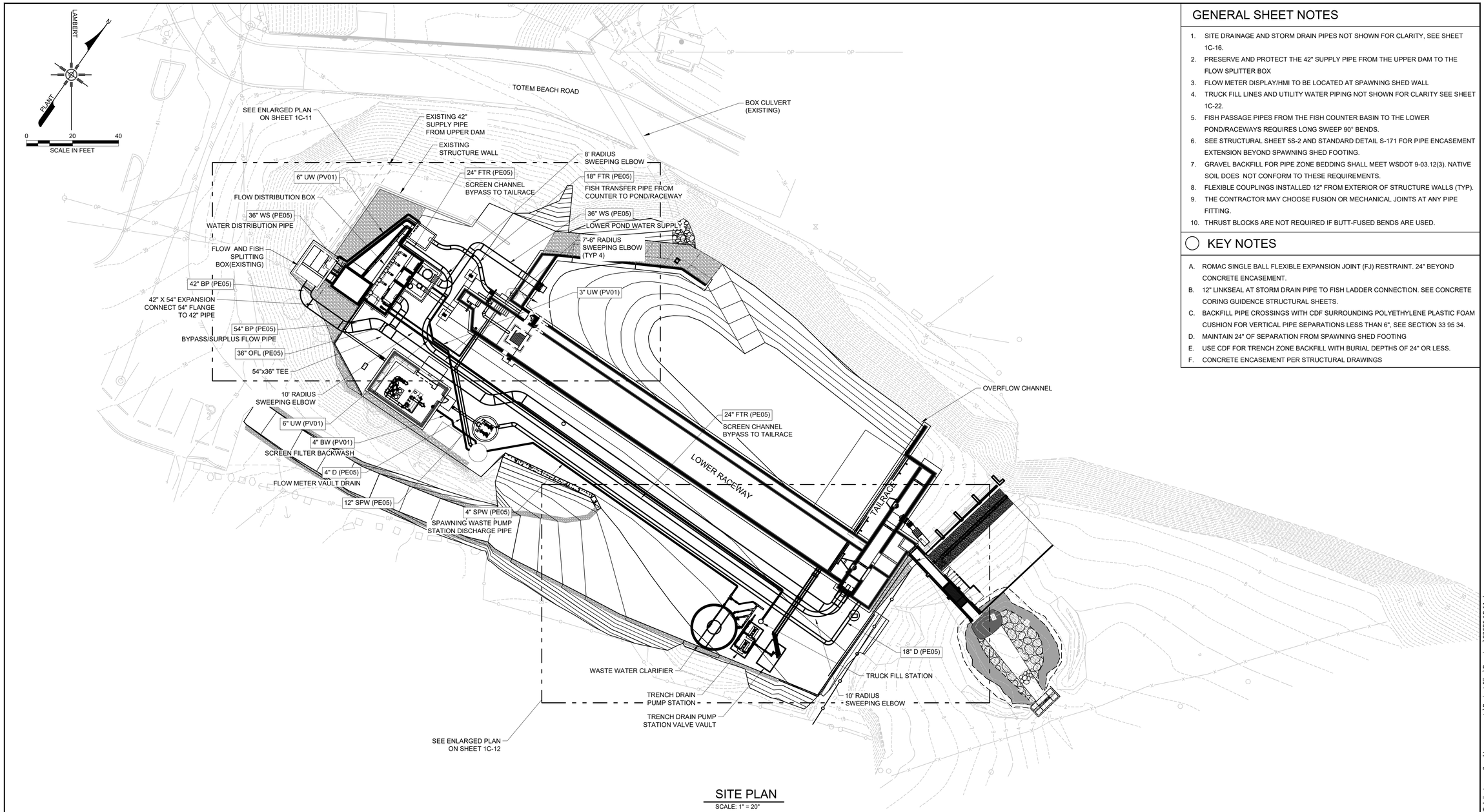
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

GRADING SECTIONS - 2

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
1C-9

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SITE PLAN
SCALE: 1" = 20'

GENERAL SHEET NOTES

1. SITE DRAINAGE AND STORM DRAIN PIPES NOT SHOWN FOR CLARITY, SEE SHEET 1C-16.
2. PRESERVE AND PROTECT THE 42" SUPPLY PIPE FROM THE UPPER DAM TO THE FLOW SPLITTER BOX
3. FLOW METER DISPLAY/HMI TO BE LOCATED AT SPAWNING SHED WALL
4. TRUCK FILL LINES AND UTILITY WATER PIPING NOT SHOWN FOR CLARITY SEE SHEET 1C-22.
5. FISH PASSAGE PIPES FROM THE FISH COUNTER BASIN TO THE LOWER POND/RACEWAYS REQUIRES LONG SWEEP 90° BENDS.
6. SEE STRUCTURAL SHEET 5S-2 AND STANDARD DETAIL S-171 FOR PIPE ENCASEMENT EXTENSION BEYOND SPAWNING SHED FOOTING.
7. GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL MEET WSDOT 9-03.12(3). NATIVE SOIL DOES NOT CONFORM TO THESE REQUIREMENTS.
8. FLEXIBLE COUPLINGS INSTALLED 12" FROM EXTERIOR OF STRUCTURE WALLS (TYP).
9. THE CONTRACTOR MAY CHOOSE FUSION OR MECHANICAL JOINTS AT ANY PIPE FITTING.
10. THRUST BLOCKS ARE NOT REQUIRED IF BUTT-FUSED BENDS ARE USED.

KEY NOTES

A. ROMAC SINGLE BALL FLEXIBLE EXPANSION JOINT (FJ) RESTRAINT. 24" BEYOND CONCRETE ENCASEMENT.
B. 12" LINKSEAL AT STORM DRAIN PIPE TO FISH LADDER CONNECTION. SEE CONCRETE CORING GUIDENCE STRUCTURAL SHEETS.
C. BACKFILL PIPE CROSSINGS WITH CDF SURROUNDING POLYETHYLENE PLASTIC FOAM CUSHION FOR VERTICAL PIPE SEPARATIONS LESS THAN 6", SEE SECTION 33 95 34.
D. MAINTAIN 24" OF SEPARATION FROM SPAWNING SHED FOOTING
E. USE CDF FOR TRENCH ZONE BACKFILL WITH BURIAL DEPTHS OF 24" OR LESS.
F. CONCRETE ENCASEMENT PER STRUCTURAL DRAWINGS

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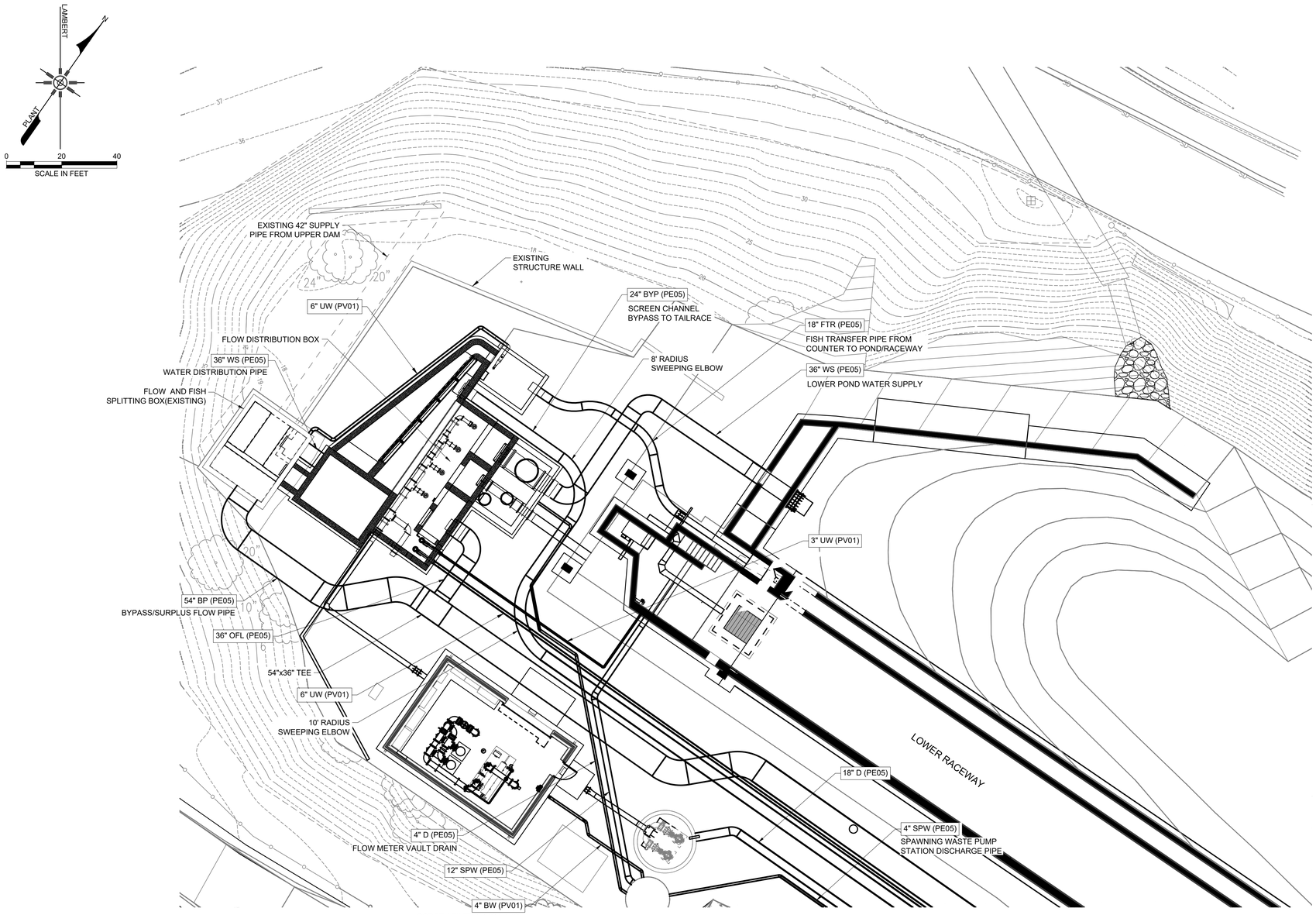
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SITE PIPING PLAN

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

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1C-10

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SITE PIPING ENLARGED PLAN - 1

SCALE: 1" = 10'

GENERAL SHEET NOTES

1. SITE DRAINAGE AND STORM DRAIN PIPES NOT SHOWN FOR CLARITY, SEE SHEET 1C-16.
2. PRESERVE AND PROTECT THE 42" SUPPLY PIPE FROM THE UPPER DAM TO THE FLOW SPLITTER BOX
3. FLOW METER DISPLAY/HMI TO BE LOCATED AT SPAWNING SHED WALL
4. TRUCK FILL LINES AND UTILITY WATER PIPING NOT SHOWN FOR CLARITY SEE SHEET 1C-22.
5. FISH PASSAGE PIPES FROM THE FISH COUNTER BASIN TO THE LOWER POND/RACEWAYS REQUIRES LONG SWEEP 90° BENDS.
6. SEE STRUCTURAL SHEET 5S-2 AND STANDARD DETAIL S-171 FOR PIPE ENCASEMENT EXTENSION BEYOND SPAWNING SHED FOOTING.
7. GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL MEET WSDOT 9-03.12(3). NATIVE SOIL DOES NOT CONFORM TO THESE REQUIREMENTS.
8. FLEXIBLE COUPLINGS INSTALLED 12" FROM EXTERIOR OF STRUCTURE WALLS (TYP).
9. THE CONTRACTOR MAY CHOOSE FUSION OR MECHANICAL JOINTS AT ANY PIPE FITTING.
10. THRUST BLOCKS ARE NOT REQUIRED IF BUTT-FUSED BENDS ARE USED.

KEY NOTES

A. ROMAC SINGLE BALL FLEXIBLE EXPANSION JOINT (FJ) RESTRAINT. 24" BEYOND CONCRETE ENCASEMENT.
B. 12" LINKSEAL AT STORM DRAIN PIPE TO FISH LADDER CONNECTION. SEE CONCRETE CORING GUIDENCE STRUCTURAL SHEETS.
C. BACKFILL PIPE CROSSINGS WITH CDF SURROUNDING POLYETHYLENE PLASTIC FOAM CUSHION FOR VERTICAL PIPE SEPARATIONS LESS THAN 6", SEE SECTION 33 95 34.
D. MAINTAIN 24" OF SEPARATION FROM SPAWNING SHED FOOTING
E. USE CDF FOR TRENCH ZONE BACKFILL WITH BURIAL DEPTHS OF 24" OR LESS.

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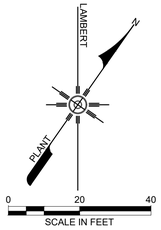
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

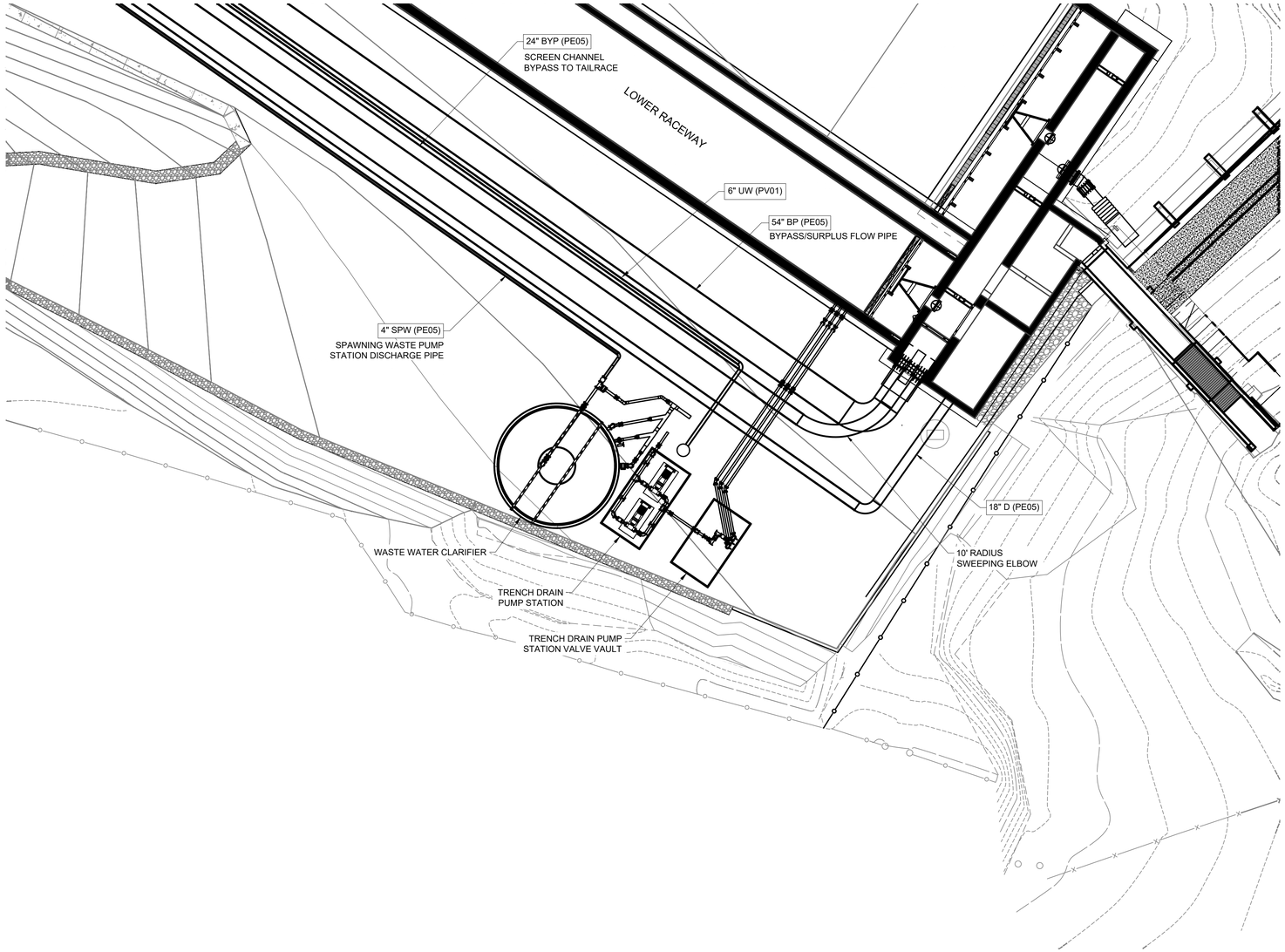
SITE PIPING ENLARGED PLAN - 1

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
1C-11

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SITE PIPING ENLARGED PLAN - 2

SCALE: 1":10'

GENERAL SHEET NOTES

1. CORE DRILL ALL PIPE PENETRATIONS IN PRECAST STRUCTURES WITHOUT PREMANUFACTURED KNOCKOUTS.
2. LINKSEALS USED TO SEAL PIPE PENETRATIONS 6" DIAMETER AND SMALLER, SEE STD DETAIL D-111.
3. FILL ANNULAR SPACES OF LARGER PIPE PENETRATIONS WITH NON-SHRINK GROUT.
4. PIPE THIMBLES REQUIRED FOR PIPE PENETRATIONS OF NEW CAST IN PLACE STRUCTURES.
5. UTILITY WATER PIPING IS NOT SHOWN, SEE SHEET 1C-22. FOR SITE DRAINAGE SEE 1C-16.
6. FLEXIBLE COUPLINGS INSTALLED 12" FROM EXTERIOR OF STRUCTURE WALLS (TYP.)
7. THE CONTRACTOR MAY CHOOSE FUSION OR MECHANICAL JOINTS AT ANY PIPE FITTINGS.ALL FISH TRANSFER PIPES ARE REQUIRED TO HAVE FUSION JOINTS WITH INTERIOR WELDS REMOVED.

KEY NOTES

A. ROMAC SINGLE BALL FLEXIBLE EXPANSION JOINT (FJ) RESTRAINT. 24" BEYOND CONCRETE ENCASEMENT.
B. 12" LINKSEAL AT STORM DRAIN PIPE TO FISH LADDER CONNECTION. SEE CONCRETE CORING GUIDENCE STRUCTURAL SHEETS.
C. BACKFILL PIPE CROSSINGS WITH CDF SURROUNDING POLYETHYLENE PLASTIC FOAM CUSHION FOR VERTICAL PIPE SEPARATIONS LESS THAN 6", SEE SECTION 33 95 34.
D. INSTALL PIPE WITH CONCRETE ENCASEMENT SEE STRUCTURAL STD DETAIL S-171.
E. USE CDF FOR TRENCH ZONE BACKFILL WITH BURIAL DEPTHS OF 24" OR LESS.

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WARNING
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TULALIP TRIBES

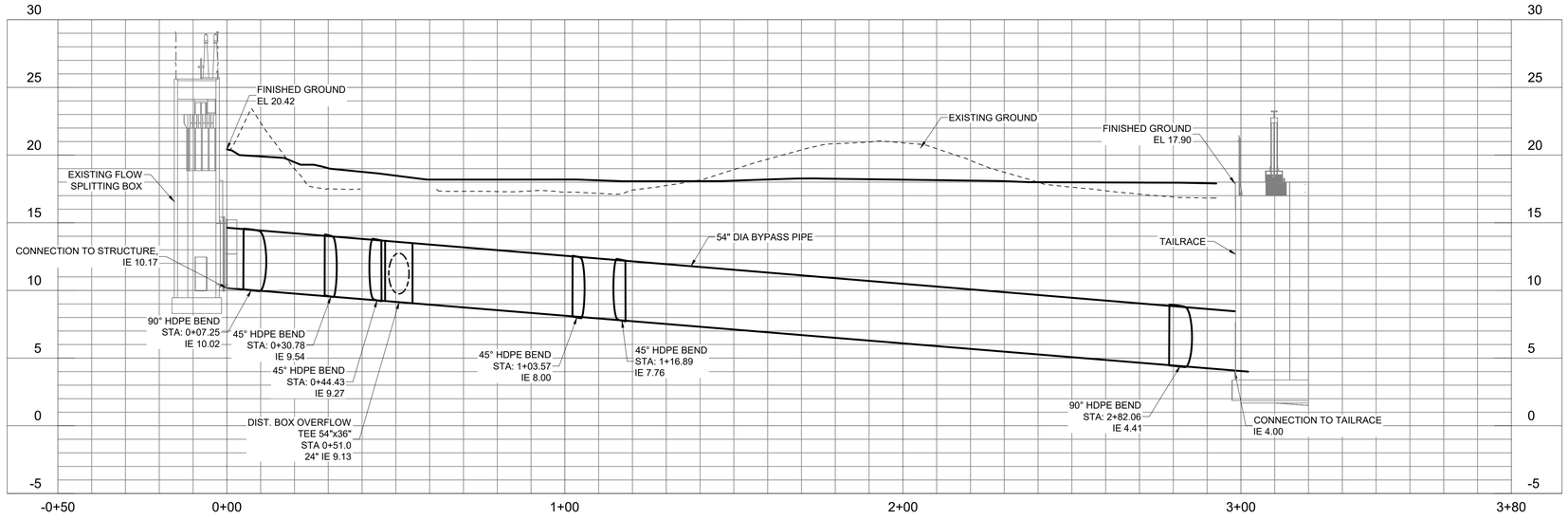
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SITE PIPING ENLARGED PLAN - 2

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

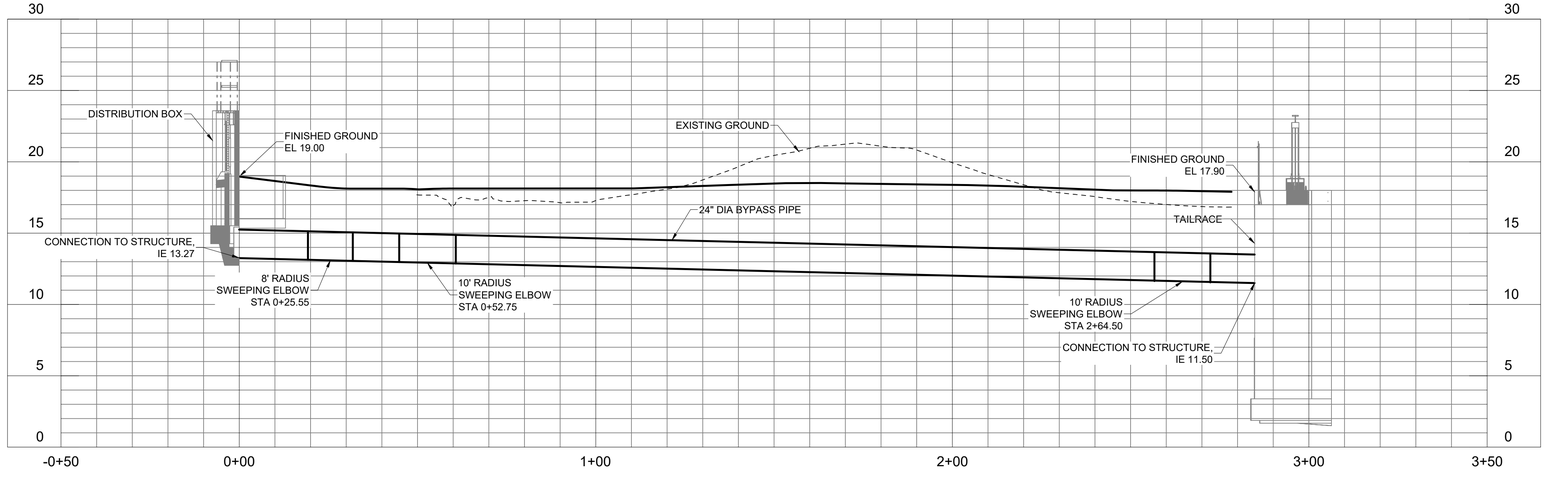
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1C-12

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54" BP (PE05) BYPASS/SURPLUS FLOW PIPE PROFILE

SCALE: H: 1'= 20' V: 1"= 5'



24" FTR (PE05) FISH AND INTERMEDIATE FLOW PASSAGE PIPE PROFILE (FACING NORTHEAST)

SCALE: H: 1'= 20' V: 1"= 5'

HORZ 0 20 40
VERT 0 5 10
SCALE IN FEET

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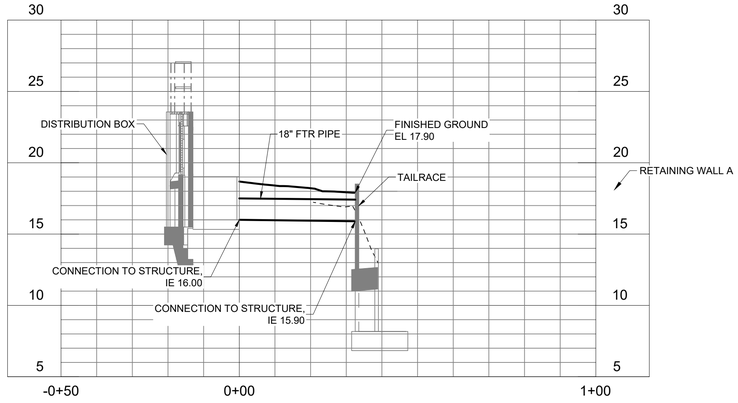
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

PIPING PROFILES - 1

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PROJECT DATE 06/29/26

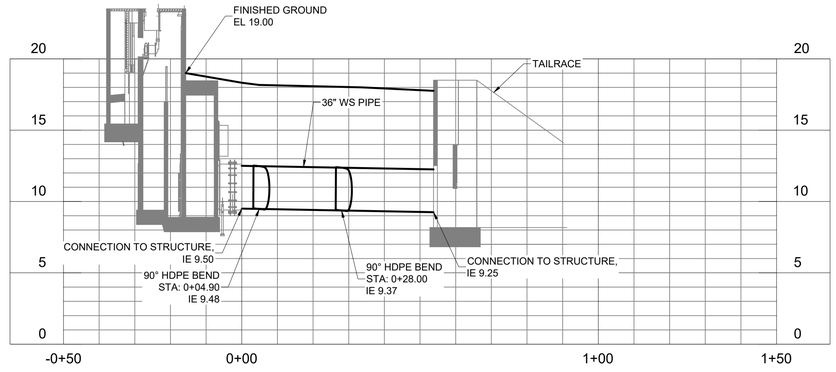
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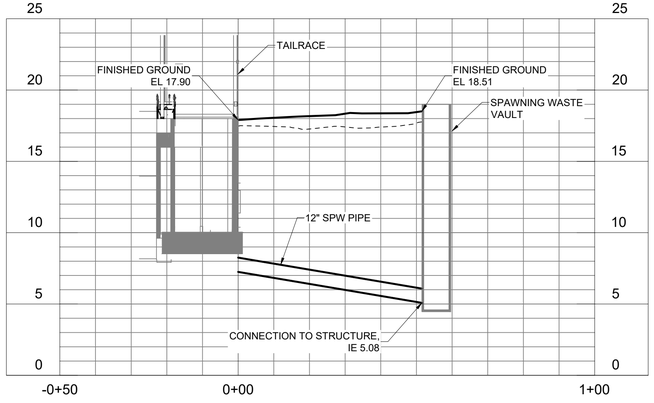
18" FTR (PE05) FISH TRANSFER TO POND/RACEWAY

SCALE: H: 1"= 20' V: 1"= 5'



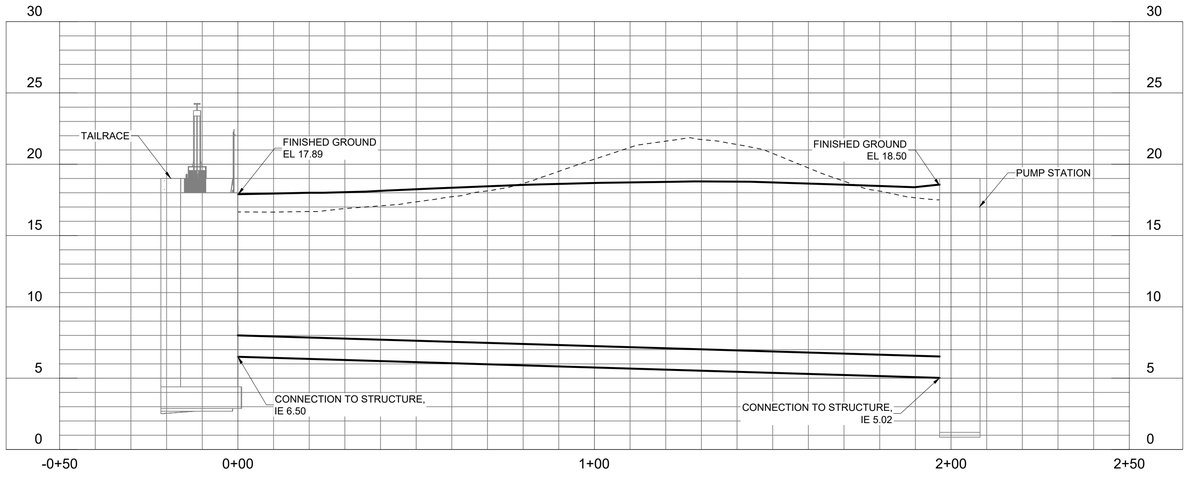
36" WS (PE05) LOWER POND WATER SUPPLY

SCALE: H: 1"= 20' V: 1"= 5'



12" SPW (PE05) TAILRACE TO SPAWING WASTE VAULT

SCALE: H: 1"= 20' V: 1"= 5'



18" D (PE05) TAILRACE TO PUMP STATION

SCALE: H: 1"= 20' V: 1"= 5'

HORZ 0 20 40
VERT 0 5 10
SCALE IN FEET

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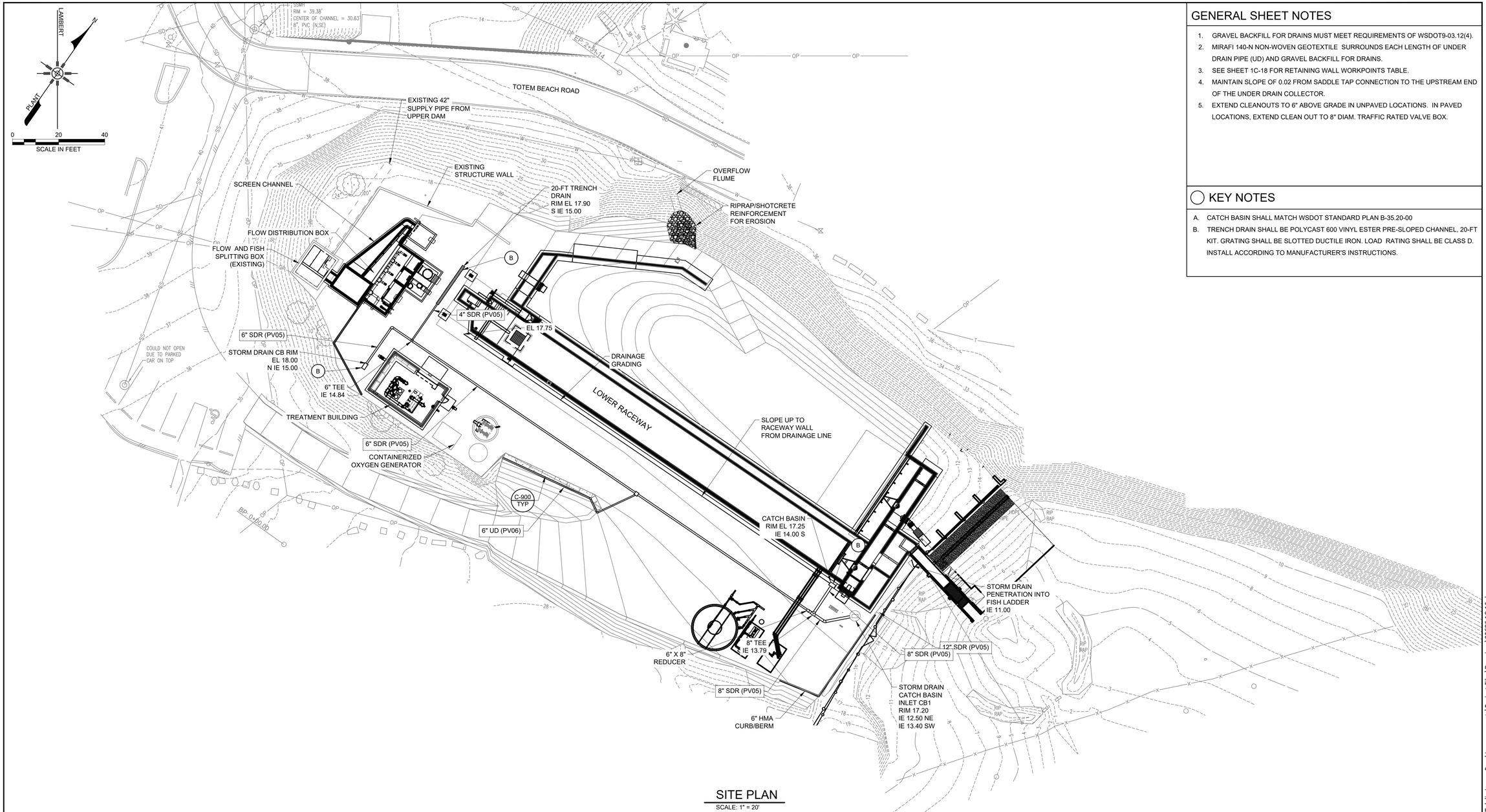
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PIPING PROFILES - 2

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1C-14

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SITE PLAN
SCALE: 1" = 20'

GENERAL SHEET NOTES

1. GRAVEL BACKFILL FOR DRAINS MUST MEET REQUIREMENTS OF WSDOT9-03.12(4).
2. MIRAFI 140-N NON-WOVEN GEOTEXTILE SURROUNDS EACH LENGTH OF UNDER DRAIN PIPE (UD) AND GRAVEL BACKFILL FOR DRAINS.
3. SEE SHEET 1C-18 FOR RETAINING WALL WORKPOINTS TABLE.
4. MAINTAIN SLOPE OF 0.02 FROM SADDLE TAP CONNECTION TO THE UPSTREAM END OF THE UNDER DRAIN COLLECTOR.
5. EXTEND CLEANOUTS TO 6" ABOVE GRADE IN UNPAVED LOCATIONS. IN PAVED LOCATIONS, EXTEND CLEAN OUT TO 8" DIAM. TRAFFIC RATED VALVE BOX.

KEY NOTES

A. CATCH BASIN SHALL MATCH WSDOT STANDARD PLAN B-35.20-00

B. TRENCH DRAIN SHALL BE POLYCAST 600 VINYL ESTER PRE-SLOPED CHANNEL, 20-FT KIT. GRATING SHALL BE SLOTTED DUCTILE IRON. LOAD RATING SHALL BE CLASS D. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

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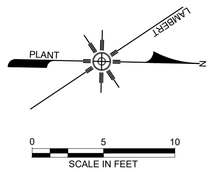
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SITE DRAINAGE PLAN

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CHECKED J. BURGI
PROJECT DATE 06/29/26

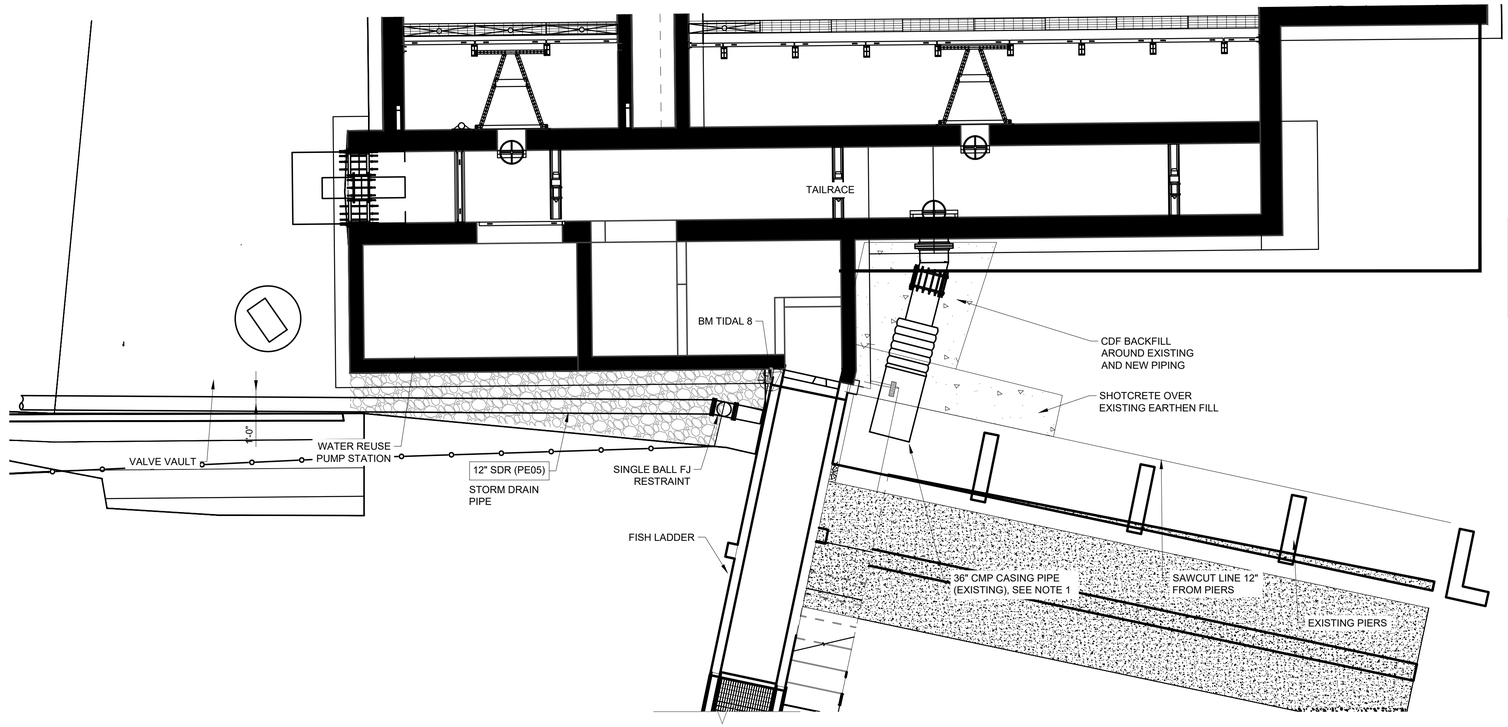
DRAWING
1C-16

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GENERAL SHEET NOTES

1. PROVIDE VIDEO INSPECTION OF EXISTING FISH RELEASE PIPE PRIOR TO CONSTRUCTION.
2. FISH RELEASE PIPE CONSISTS OF A 36" CMP CASING PIPE WITH A 24" SLIPLINED HDPE PIPE INSIDE. CUT BACK CMP CASING TO INSTALL STL WALL THIMBLE, CUSTOM 15 DEG STL MITER ELBOW, RFCA, AND HDPE/STL TRANSITION.
3. DRILL HOLES INTO CORRUGATED METAL CASING PIPE TO INJECT LOW PRESSURE GROUT INTO THE ANNULAR SPACE SURROUNDING THE 24" HDPE FISH RELEASE PIPE. HOLES SHALL BE LOCATED 12" DOWNSTREAM OF THE NEW CUT ON THE CASING PIPE.
4. SHOTCRETE LOWER DAM FOREBAY PRIOR TO BACKFILL WITH GRAVEL BORROW OR CONSTRUCTION OF SPILLWAY SLAB.
5. BACKFILL THE CASING PIPE, FISH RELEASE PIPE, ELBOW, AND RFCA WITH CDF AS TRENCH BACKFILL.
6. INSTALL ROMAC SINGLE BALL FLEXIBLE EXPANSION JOINT (FJ) RESTRAINT TO ALLOW 12" STORM DRAIN PIPE PERPENDICULAR PENETRATION AT FISH LADDER WALL.



1 / 1C-17 LOWER DAM FOREBAY / SPILLWAY ENLARGED PLAN

SCALE: 1" = 5'

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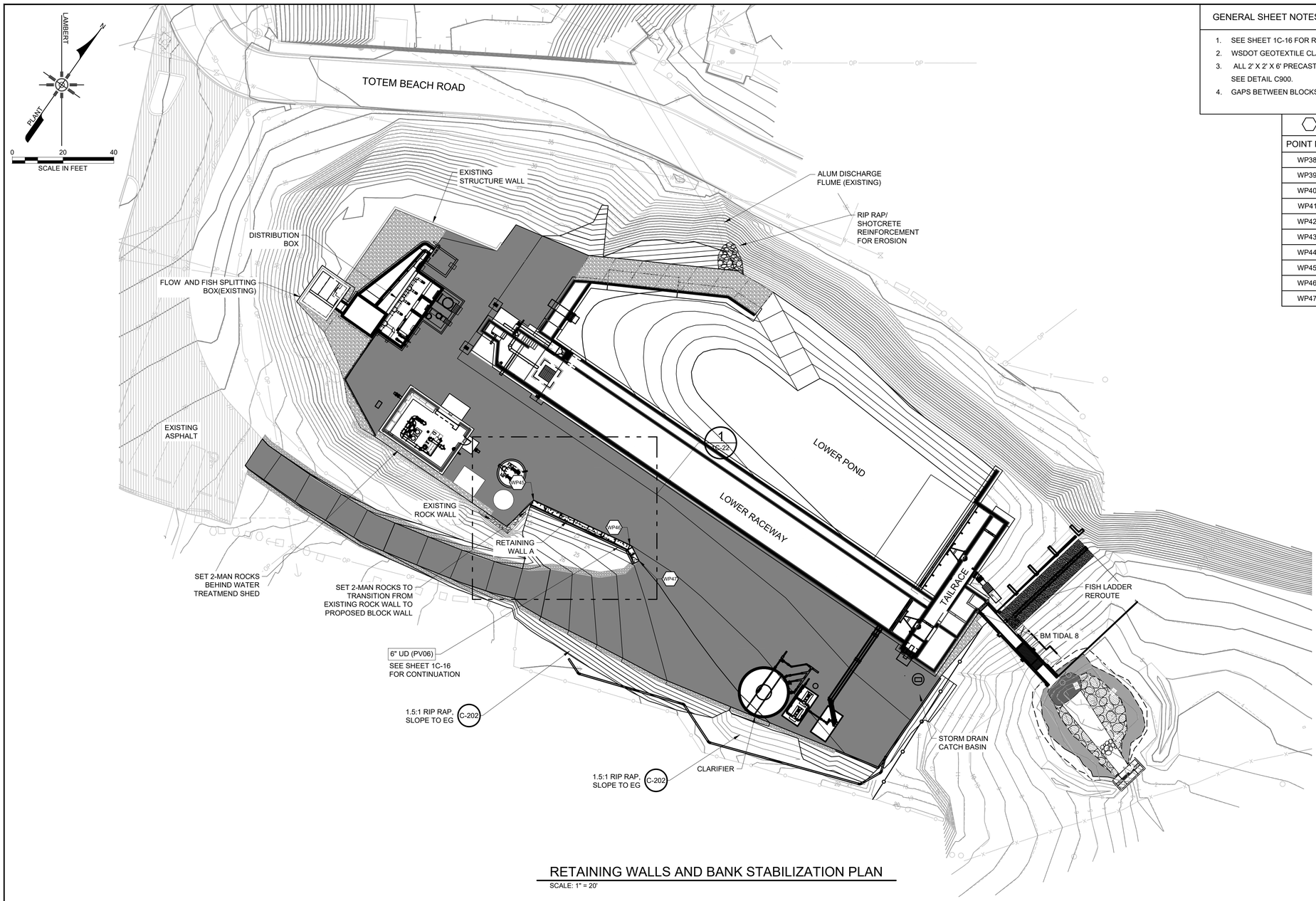
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER DAM FOREBAY /
SPILLWAY ENLARGED PLAN

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

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1C-20

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RETAINING WALLS AND BANK STABILIZATION PLAN

SCALE: 1" = 20'

GENERAL SHEET NOTES

1. SEE SHEET 1C-16 FOR RETAINING WALL UNDERDRAIN PLAN.
2. WSDOT GEOTEXTILE CLASS A WRAP REQUIRED AROUND ALL DRAIN PIPES (DETAIL C900).
3. ALL 2' X 2' X 6' PRECAST CONCRETE BLOCKS INSTALLED HORIZONTALLY LEVEL AND KEYED INTO THE GROUND, SEE DETAIL C900.
4. GAPS BETWEEN BLOCKS GREATER THAN 4" IN WIDTH, TO BE FILLED WITH CONCRETE.

WORK POINT TABLE

POINT NO	NORTHING	EASTING	DESCRIPTION
WP38	391877.39	1285261.22	RETAINING WALL C
WP39	391876.12	1285263.03	RETAINING WALL C
WP40	391875.81	1285270.12	RETAINING WALL C NW OF LOWER RACEWAY
WP41	391781.30	1285217.74	RETAINING WALL A NEAR OXYGEN GENERATOR SHED
WP42	391763.60	1285255.75	RETAINING WALL A SW OF LOWER RACEWAY
WP43	391757.35	1285259.35	RETAINING WALL A AT CORNER
WP44	391715.16	1285237.10	RETAINING WALL B
WP45	391702.99	1285278.65	RETAINING WALL B W OF CLARIFIER
WP46	391688.06	1285288.46	RETAINING WALL B SW OF CLARIFIER
WP47	391672.16	1285345.89	RETAINING WALL B NEAR CB 1

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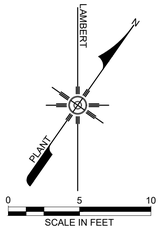
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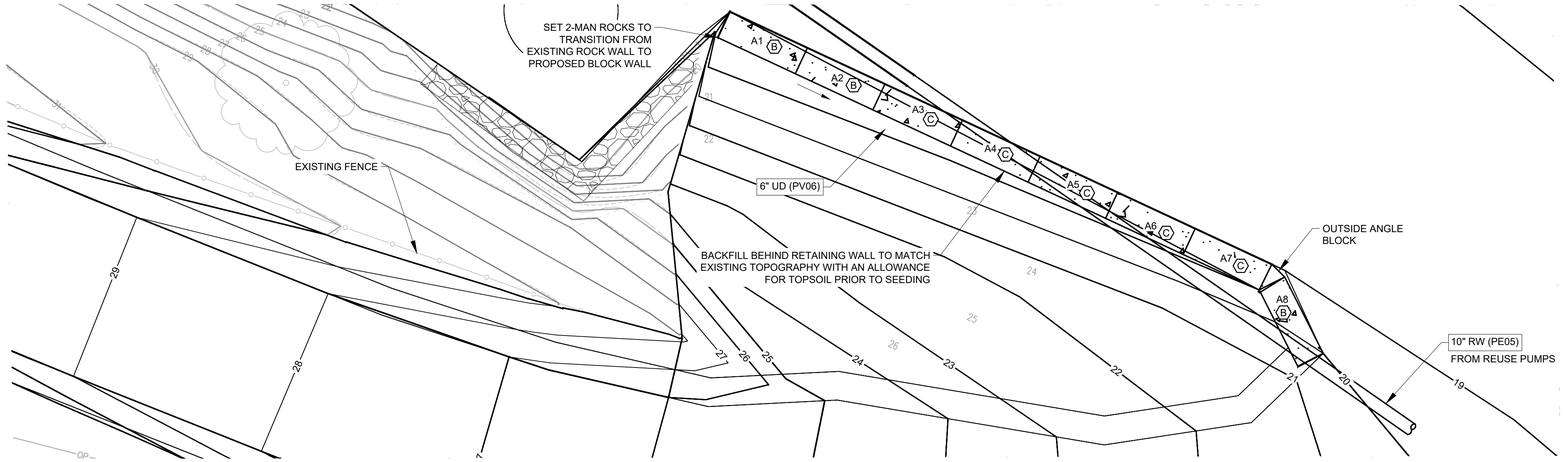
RETAINING WALL AND BANK STABILIZATION PLAN

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
1C-21

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1 / 1C-9 RETAINING WALL A

SCALE: 1" = 5'

GENERAL SHEET NOTES

1. CONTRACTOR SHALL USE ULTRABLOCK FULL PLAIN FACE BLOCKS OR EQUIVALENT. CONTRACTOR SHALL FOLLOW THE ULTRABLOCK BUILDING GUIDE FOR RETAINING WALL CONSTRUCTION

KEY NOTES

(A)

RETAINING WALL A - BLOCK SCHEDULE

BLOCK ID.	NO. OF BLOCKS	HEEL ELEV.	BACK TOW ELEV.
A1	1	18	20
A2	1	18	20
A3	1	18	20
A4	1	18	20
A5	1	18	20
A6	1	18	20
A7	1	18	20
A8	1	18	20

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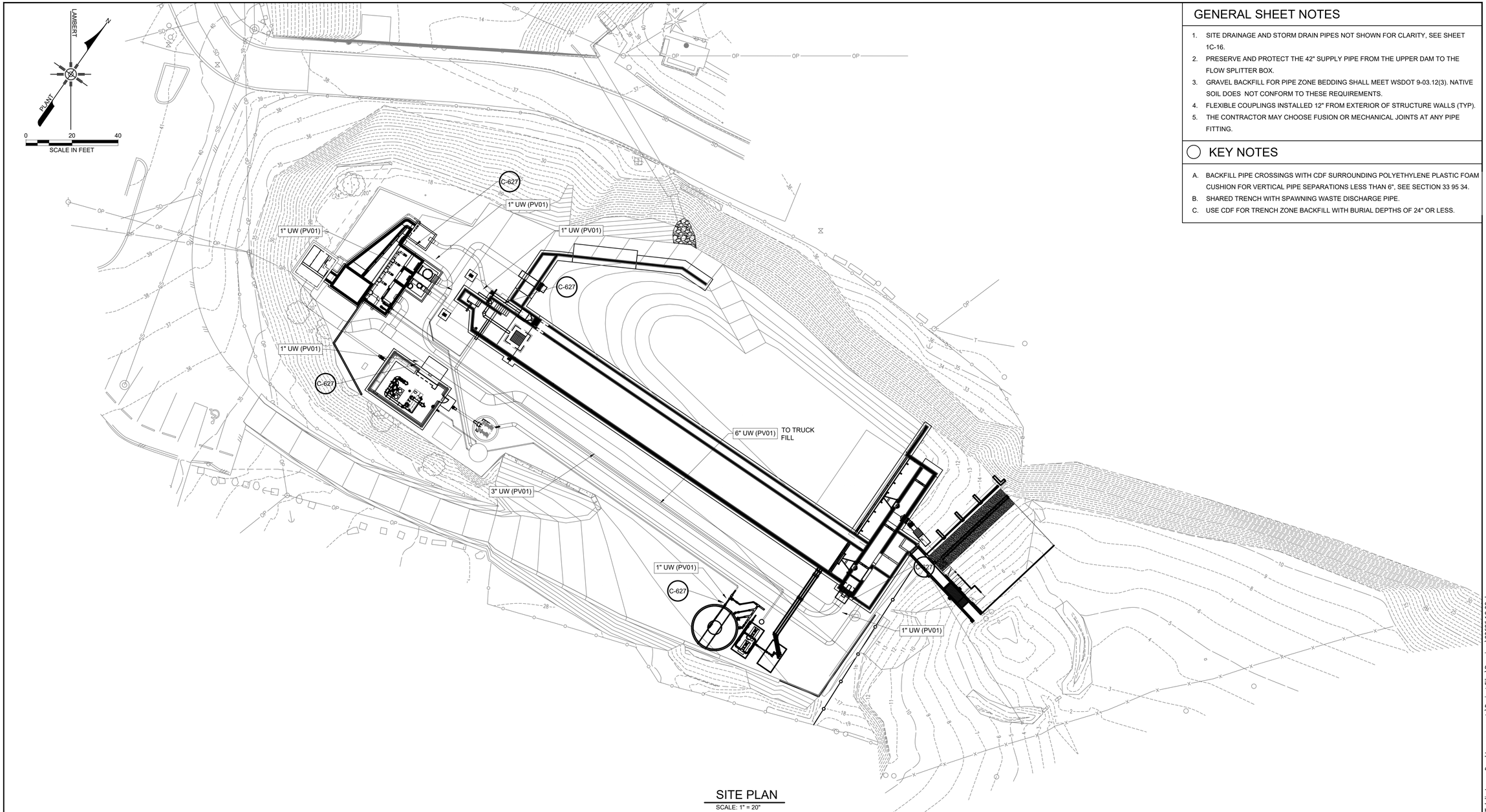
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RETAINING WALL DETAILS

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SITE PLAN
SCALE: 1" = 20'

GENERAL SHEET NOTES

1. SITE DRAINAGE AND STORM DRAIN PIPES NOT SHOWN FOR CLARITY, SEE SHEET 1C-16.
2. PRESERVE AND PROTECT THE 42" SUPPLY PIPE FROM THE UPPER DAM TO THE FLOW SPLITTER BOX.
3. GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL MEET WSDOT 9-03.12(3). NATIVE SOIL DOES NOT CONFORM TO THESE REQUIREMENTS.
4. FLEXIBLE COUPLINGS INSTALLED 12" FROM EXTERIOR OF STRUCTURE WALLS (TYP).
5. THE CONTRACTOR MAY CHOOSE FUSION OR MECHANICAL JOINTS AT ANY PIPE FITTING.

◯ KEY NOTES

A. BACKFILL PIPE CROSSINGS WITH CDF SURROUNDING POLYETHYLENE PLASTIC FOAM CUSHION FOR VERTICAL PIPE SEPARATIONS LESS THAN 6", SEE SECTION 33 95 34.
B. SHARED TRENCH WITH SPAWNING WASTE DISCHARGE PIPE.
C. USE CDF FOR TRENCH ZONE BACKFILL WITH BURIAL DEPTHS OF 24" OR LESS.

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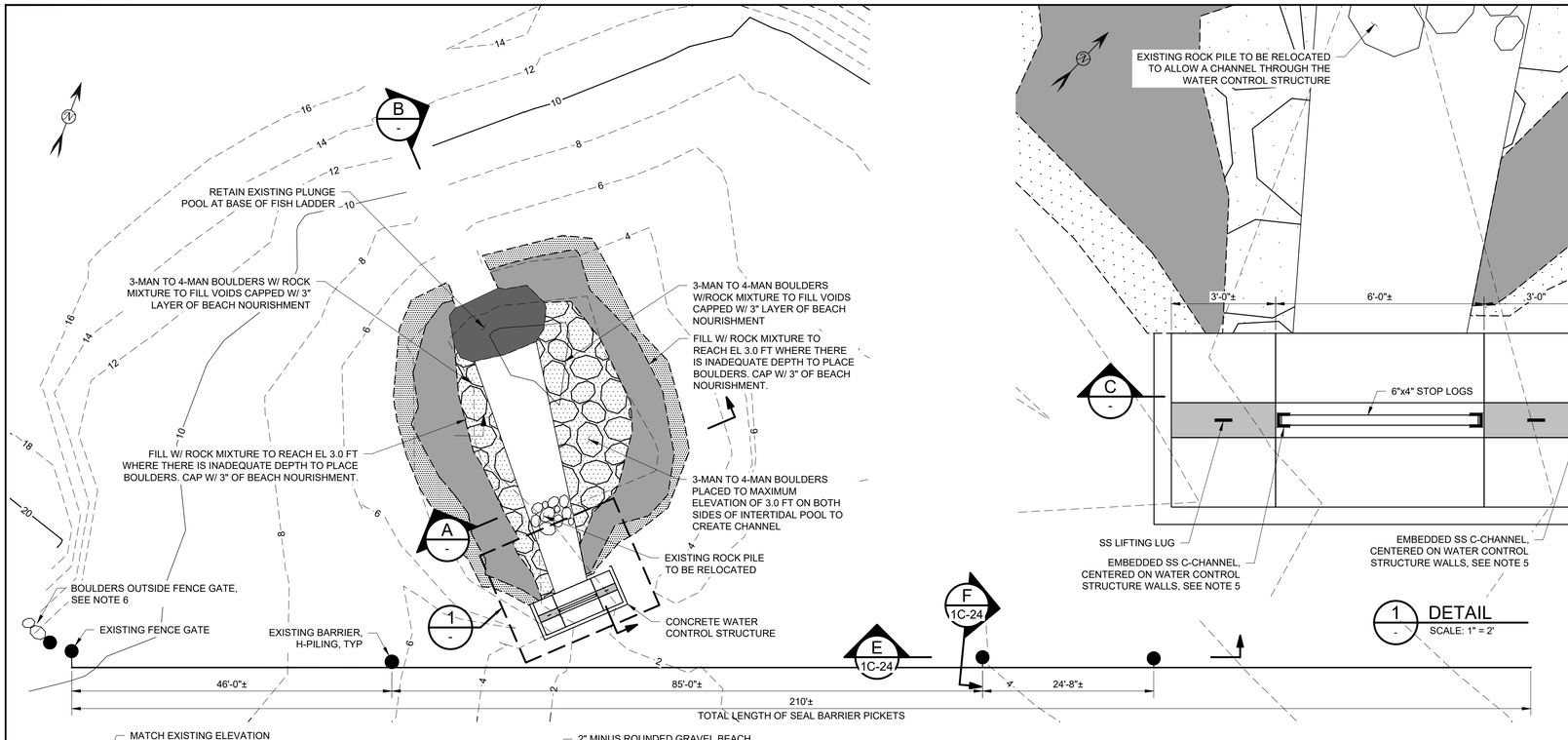
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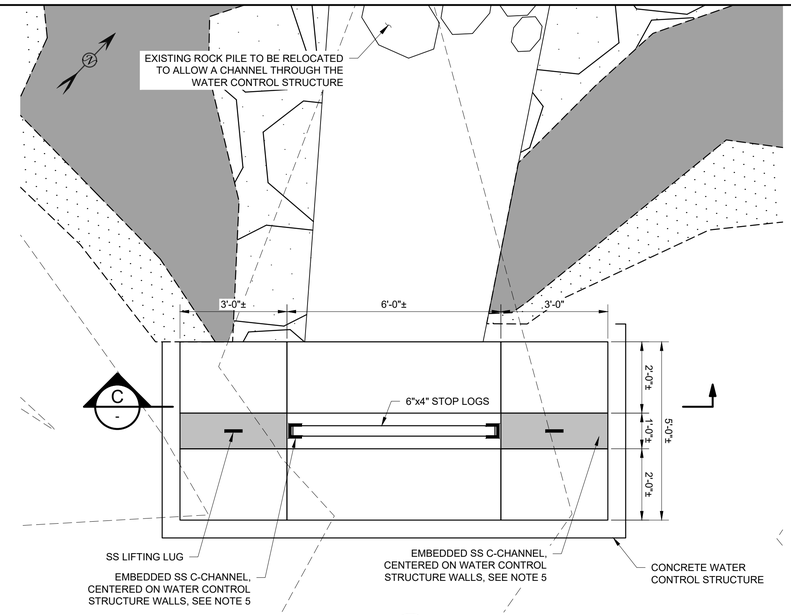
UTILITY PIPING PLAN

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

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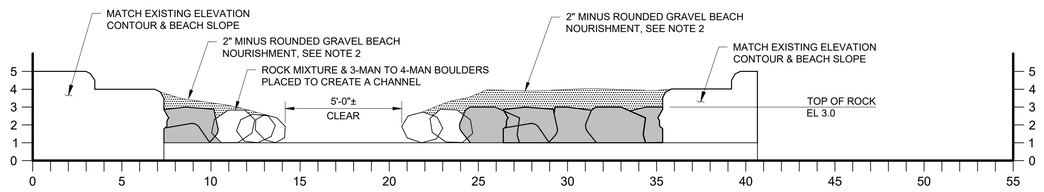




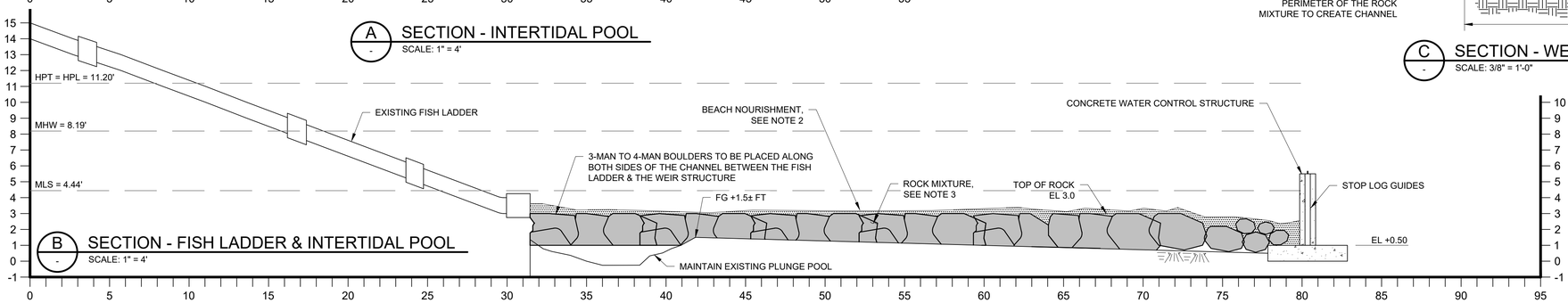
1 DETAIL
SCALE: 1" = 2'

GENERAL SHEET NOTES

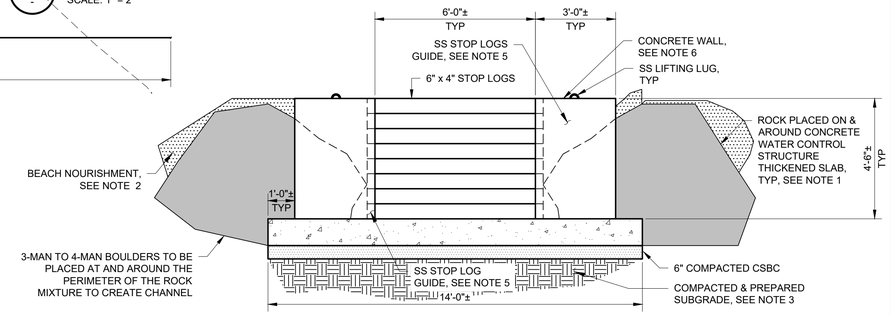
1. 3-MAN TO 4-MAN BOULDERS PLACEMENT NEEDS TO BE FIELD VERIFIED BY CLIENT AND PLACED ACCORDINGLY BY CONTRACTOR. 2-MAN TO 3-MAN BOULDERS TO BE PLACED TO A MAXIMUM ELEVATION OF 3 FT. REFER TO SECTION 31 30 00 FOR BOULDER SIZES AND MATERIAL DESCRIPTIONS.
2. 2" MINUS BEACH NOURISHMENT GRAVEL PLACEMENT NEEDS TO BE FIELD VERIFIED BY OWNER AND PLACED ACCORDINGLY BY CONTRACTOR. TOTAL OF 30 CUBIC YARDS SHALL BE PLACED.
3. ROCK MIXTURE TO INCLUDE 2" TO 4" QUARRY SPALLS AND CSBC APPLIED OVER THE LAYER OF 3-MAN TO 4-MAN BOULDERS TO FILL VOIDS PRIOR TO SETTING NOURISHMENT.
4. CONTRACTOR SHALL PLACE 3-MAN TO 4-MAN BOULDERS BETWEEN THE EXISTING FENCE GATE AT THE EDGE OF THE BANK TO CREATE A VERTICAL BARRIER OF 4 FEET OR HIGHER.
5. STOP LOG GUIDES TO BE EMBEDDED STAINLESS STEEL C-CHANNEL TO CONCRETE WEIR; REFER TO DETAIL S-900 ON TULALIP LOWER POND IMPROVEMENTS STRUCTURAL PLAN SET.
6. UNLESS OTHERWISE SHOWN CONCRETE WALLS AND SLABS SHALL BE REINFORCED AS FOLLOWS: #6 @ 12" EW EF OF 12" AND THICKER SECTIONS.
7. ALIGN PICKET PANELS TO CLOSE OFF GAP TO EXISTING END CLOSURE ALONG THE BACK.
8. CONTRACTOR SHALL PRE-CAST THE WATER CONTROL STRUCTURE AT AN UPLAND LOCATION AND LIFT INTO PLACE AS ONE ASSEMBLY. PREPARE AND COMPACT SUBGRADE UNDER DRY CONDITIONS PRIOR TO PLACEMENT. CONTRACTOR SHALL COORDINATE WORK SUCH THAT TIDES ARE OUT DURING COMPACTION AND STRUCTURE PLACEMENT.
9. PERMIT REQUIREMENTS FOR IN-WATER WORK MUST BE FOLLOWED FOR ALL WORK IN THE INTERTIDAL POOL. SEE USAGE PERMIT NWS-2022-847. NOTE THE SEASONAL RESTRICTIONS AND REQUIREMENTS FOR A FORAGE FISH SURVEY PRIOR TO PROCEEDING WITH WORK.



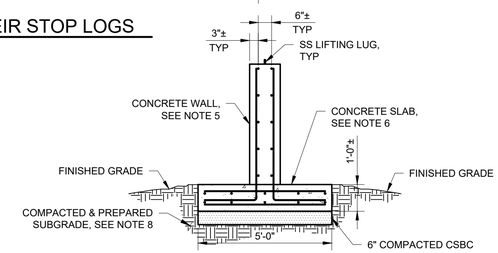
A SECTION - INTERTIDAL POOL
SCALE: 1" = 4'



B SECTION - FISH LADDER & INTERTIDAL POOL
SCALE: 1" = 4'



C SECTION - WEIR STOP LOGS
SCALE: 3/8" = 1'-0"



D SECTION - WEIR & STOP LOGS GUIDE
SCALE: 3/8" = 1'-0"

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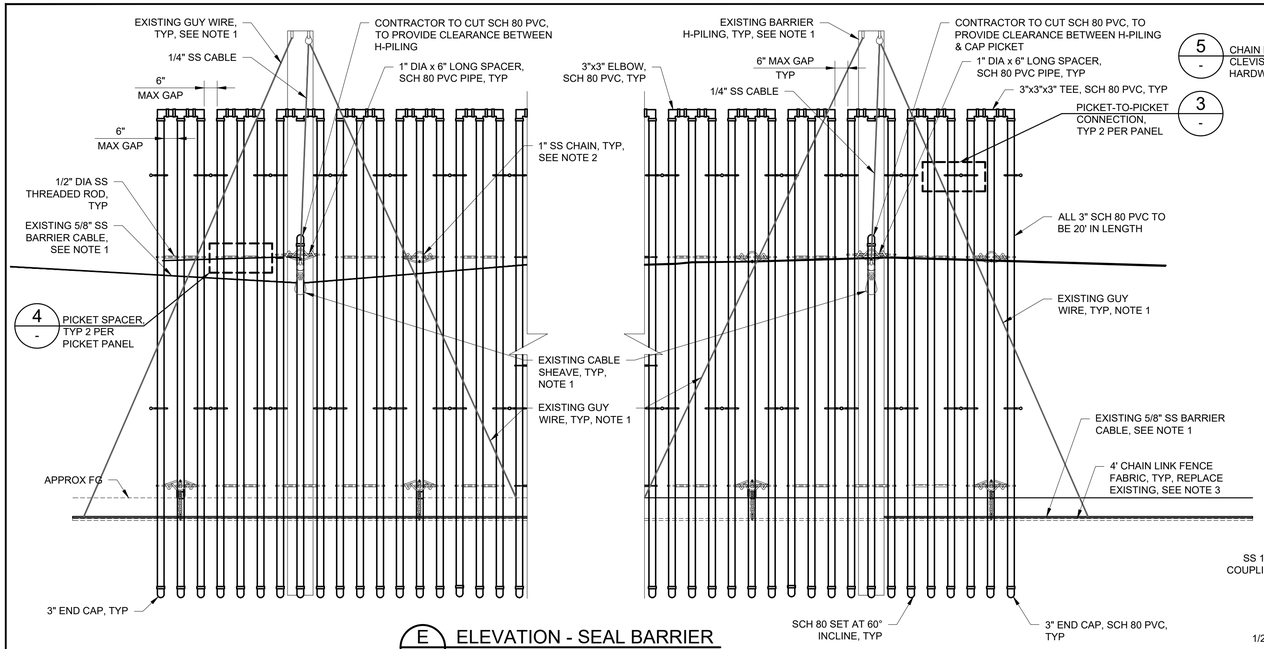
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

HOLDING POOL AND SEAL BARRIER IMPROVEMENTS

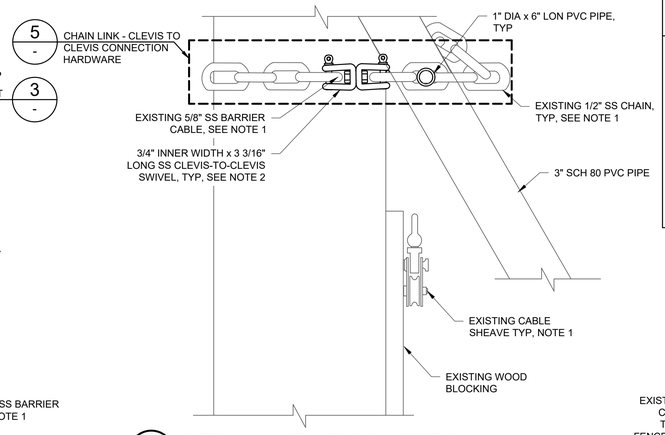
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1C-24

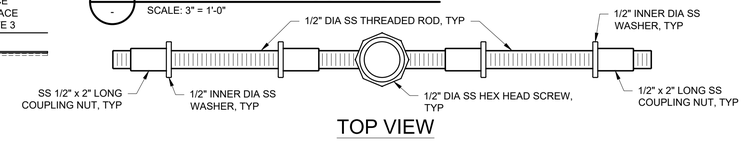
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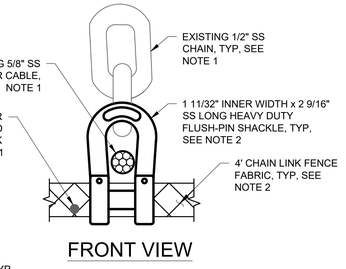
E / 1C-24 ELEVATION - SEAL BARRIER
SCALE: 3/8" = 1'-0"



2 - DETAIL - SHEAVE CONNECTION
SCALE: 3" = 1'-0"



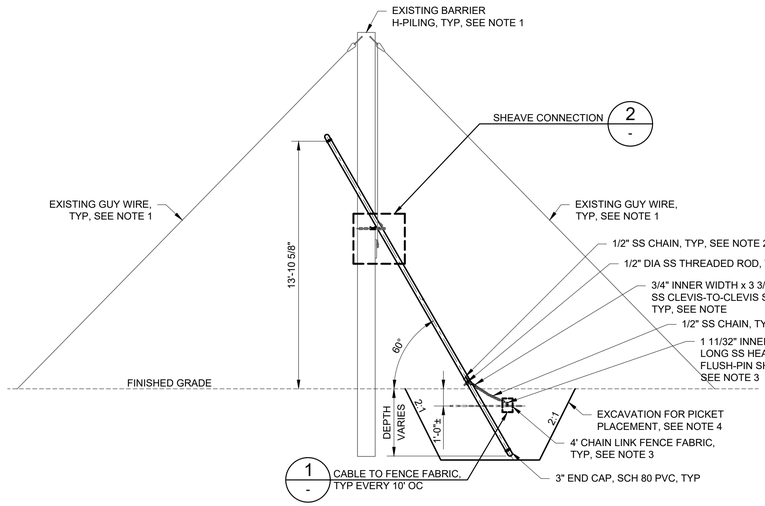
TOP VIEW



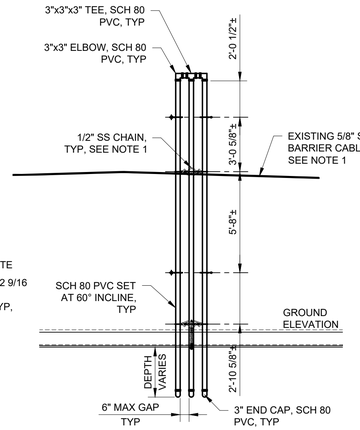
FRONT VIEW

GENERAL SHEET NOTES

1. EXISTING BARRIER CABLE TO BE RETAINED. ALL EXISTING SEAL BARRIER MATERIALS MUST BE FIELD VERIFIED BY CONTRACTOR FOR SIZE & DIMENSIONS CALLED OUT ON THIS SHEET, BEFORE INSTALLATION OF NEW SEAL BARRIER.
2. NUMBER OF CHAIN TO CABLE CONNECTIONS & THEIR LOCATIONS MUST BE FIELD VERIFIED AND APPROVED BY CONTRACTOR BEFORE INSTALLATION TO SEAL BARRIER STRUCTURE.
3. NUMBER OF SHACKLE TO CHAIN LINK FENCE CONNECTIONS & THEIR LOCATIONS MUST BE FIELD VERIFIED AND APPROVED BY CONTRACTOR BEFORE INSTALLATION TO SEAL BARRIER STRUCTURE.
4. CONTRACTOR SHALL EXCAVATE TO BURY CHAIN LINK FABRIC AND BASE OF PICKETS, THEN BACKFILL WITH NATIVE MATERIAL TO RESTORE ORIGINAL GRADES AND SLOPES. SEE REQUIREMENTS OF USACE PERMIT FOR WORK RESTRICTIONS IN THE INTERTIDAL ZONE BELOW THE LOWER DAM.

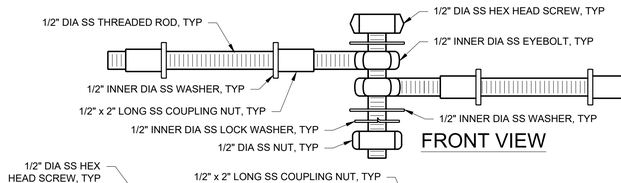


SIDE VIEW

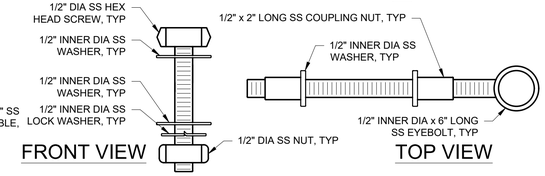


PICKET PANEL FRONT VIEW

F / 1C-24 SEAL BARRIER SECTION
SCALE: 1/4" = 1'-0"

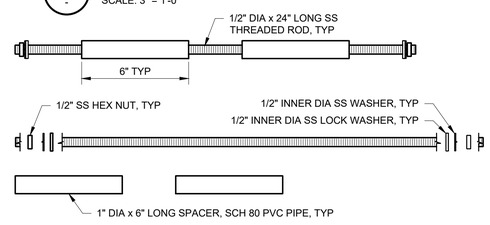


FRONT VIEW

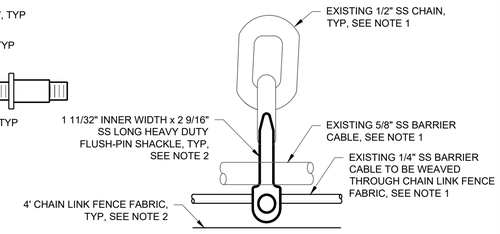


TOP VIEW

3 - DETAIL - PICKET-TO-PICKET CONNECTION
SCALE: 3" = 1'-0"

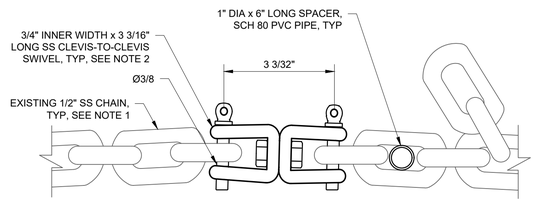


4 - DETAIL - PICKET SPACER
SCALE: 3" = 1'-0"



SIDE VIEW

1 - DETAIL - CABLE TO FENCE FABRIC
SCALE: 6" = 1'-0"



5 - DETAIL - CHAIN LINK - CLEVIS TO CLEVIS CONNECTION HARDWARE
SCALE: 6" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
SEAL BARRIER DETAILS

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
1C-25

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GENERAL NOTES

GENERAL

THESE NOTES ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE.

STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE COORDINATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. BOLT SIZES, TYPES, AND PATTERNS SHALL BE VERIFIED WITH THE MANUFACTURER. ALL BOLT PATTERNS SHALL BE TEMPLATED TO ENSURE ACCURACY OF PLACEMENT.

MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DRAWINGS, SHALL BE PROVIDED FOR PRIOR TO PLACING CONCRETE.

STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH MECHANICAL, ELECTRICAL, ARCHITECTURAL, CIVIL DRAWINGS AND SHOP DRAWINGS PROVIDED BY MANUFACTURERS OF EQUIPMENT.

STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL, HYDROSTATIC, AND BACKFILL LOADS ON THE COMPLETED STRUCTURES. THE STRUCTURES HAVE NOT BEEN DESIGNED TO RESIST THESE LOADS WHILE ONLY PARTIALLY CONSTRUCTED. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED FROM ALL CONSTRUCTION LOADS BY BRACING AND BALANCING UNTIL ALL STRUCTURAL ELEMENTS ARE IN PLACE, AND ALL CONCRETE HAS REACHED THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH. OVERLOADING OF ANY STRUCTURAL ELEMENT IS PROHIBITED.

UNLESS OTHERWISE SHOWN, ON ALL STRUCTURAL DRAWINGS THE FINISHED GRADE AROUND STRUCTURES IS SHOWN THUS, ////////// INDICATING EITHER GROUND SURFACE, TOP OF CONCRETE SLAB, OR AC PAVEMENT. FOR DETAILS OF FINISH SURFACES, SEE CIVIL AND ARCHITECTURAL DRAWINGS.

STRUCTURAL STEEL

STEEL CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS AS CONTAINED IN THE FIFTEENTH EDITION OF THE AISC STEEL CONSTRUCTION MANUAL.

STRUCTURAL WIDE FLANGE SHAPES AND CHANNELS SHALL BE STEEL MEETING ASTM A-992 SPECIFICATIONS.

OTHER SHAPES, BARS, PLATES AND SHEETS SHALL BE OF STEEL MEETING ASTM A-36 SPECIFICATIONS.

PIPE, PIPE COLUMNS, AND BOLLARDS SHALL BE OF STEEL MEETING ASTM A-53, TYPE E OR S, GRADE B STANDARD WEIGHT, UNO

HSS SHALL BE OF STEEL MEETING ASTM A-500 GRADE B.

STEEL JOISTS, BEAMS, AND GIRDERS SHALL NOT BE RELOCATED WITHOUT APPROVAL BY THE ENGINEER.

ALL WELDING SHALL BE BY THE SHIELDED ARC METHOD AND SHALL CONFORM TO AWS CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. QUALIFICATIONS OF WELDERS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR STANDARD QUALIFICATION PROCEDURE OF THE AWS.

CONCRETE (EXCEPT PRECAST CONCRETE)

UNLESS OTHERWISE NOTED OR SPECIFIED, ALL STRUCTURAL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI IN 28 DAYS.

REINFORCEMENT STEEL SHALL BE DEFORMED BARS CONFORMING IN QUALITY TO THE REQUIREMENTS OF ASTM A-615, "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", GRADE 60

COLUMN SPIRALS SHALL CONFORM TO ASTM A-615, "DEFORMED AND PLAIN BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT, GRADE 60 OR ASTM A-82 "STEEL WIRE, PLAIN, FOR CONCRETE REINFORCEMENT".

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS, UNLESS OTHERWISE INDICATED, SHALL BE IN ACCORDANCE WITH ACI-315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.

TOLERANCES IN PLACING REINFORCEMENT SHALL BE:
+/- 3/8 INCH FOR MEMBERS WITH DEPTH D </= 8 INCHES
+/- 1/2 INCH FOR MEMBERS WITH DEPTH D > 8 INCHES

ALL CONSTRUCTION JOINTS, SHALL BE ROUGH AND THOROUGHLY CLEANED FOR BOND.

LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER. ALL CONSTRUCTION JOINTS LOCATED ON THE DRAWINGS, OR REQUIRED FOR CONSTRUCTION BUT NOT SHOWN ON THE DRAWINGS, SHALL HAVE A 6" FLATSTRIP WATERSTOP IF IN CONTACT WITH WATER. IN ADDITION, JOINTS IN ALL SLABS COVERED WITH WATER SHALL HAVE BOTH A 6" FLATSTRIP WATERSTOP AND A SEALANT GROOVE.

DOWELS, PIPE, WATERSTOPS AND OTHER INSTALLED MATERIALS AND ACCESSORIES SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.

UNLESS OTHERWISE INDICATED, ASIDE FROM NORMAL ACCESSORIES USED TO HOLD REINFORCING BARS FIRMLY IN POSITION, THE FOLLOWING SHALL BE ADDED:

A) IN SLABS #5 RISER BARS AT 36 INCHES OC MAXIMUM TO SUPPORT TOP REINFORCING BARS.

B) IN WALLS WITH 2 CURTAINS #3 U OR Z SHAPE SPACERS AT 6 FEET OC EACH WAY.

VERTICAL REINFORCEMENT FOR CONCRETE OR MASONRY SHALL BE SPLICED WITH DOWEL BARS OF THE SAME SIZE AND SPACING FROM THE FOUNDATION USING A STANDARD SPLICE LENGTH UNLESS INDICATED OTHERWISE.

SEALANT SHALL BE PLACED AT THE TOP OF ALL JOINTS RECEIVING EXPANSION JOINT FILLER. SEALANT DEPTH SHALL BE THE JOINT FILL THICKNESS OR 1/2", WHICHEVER IS LESS.

ALL GROUT SHALL BE NON-SHRINK GROUT, UNLESS INDICATED OTHERWISE.

UNLESS OTHERWISE SHOWN CONCRETE WALLS AND SLABS SHALL BE REINFORCED AS FOLLOWS: #4@12" EW , CENTER OF 6" SECTIONS; #5@12" EW, CENTER OF 8" SECTIONS; #4 @ 12" EW EF OF 10" SECTIONS; #5@12" EW EF OF 12" AND THICKER SECTIONS.

METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUBGRADE. CONCRETE BLOCKS (OR DOBIES) SUPPORTING BARS ON SUBGRADE SHALL BE IN SUFFICIENT NUMBERS TO SUPPORT THE BARS WITHOUT SETTLEMENT, BUT IN NO CASE SHALL SUCH SUPPORT BE CONTINUOUS.

DOWELS SHALL BE WIRED OR OTHERWISE HELD IN POSITION. THEY SHALL NOT BE SHOVED INTO FRESHLY PLACED CONCRETE.

UNLESS OTHERWISE INDICATED ON THE DRAWINGS, LAPS OF REINFORCEMENT SHALL BE AS SHOWN ON DETAIL S-143.

LOCATE TWO 3/4 INCH GALVANIZED RICHMOND ROCKET INSERTS, HOHMANN & BARNARD OR EQUAL, STRADDLING CENTERLINE OF EQUIPMENT OVER ALL PUMPS, METERS OR OTHER MECHANICAL UNITS OF MORE THAN 100 LBS, FOR INSERTING LIFTING EYES IF NOT OTHERWISE INDICATED.

REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY PIPE, PIPE FLANGE OR METAL PARTS EMBEDDED IN CONCRETE, A MINIMUM OF 2 INCHES CLEARANCE SHALL BE PROVIDED AT ALL TIMES.

ALL ITEMS EMBEDDED IN CONCRETE SHALL BE SPACED ON CENTER AT LEAST 3 TIMES THEIR OUTSIDE DIMENSION. THE OUTSIDE DIMENSION SHALL NOT EXCEED ONE THIRD OF THE MEMBER THICKNESS

ELECTRICAL CONDUIT EMBEDDED IN CONCRETE SHALL NOT BE SPACED CLOSER THAN 3 OUTSIDE DIAMETERS ON CENTER.

UNLESS OTHERWISE SHOWN ON THE DRAWINGS CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS:

FOR CONCRETE PLACED AGAINST EARTH (SEE CONSTRUCTION JOINT DETAILS FOR THIN SLABS-ON-GRADE, BOTTOM COVER MAY BE LESS THAN 3" IF SO INDICATED)	3"
FOR SURFACES IN CONTACT WITH WATER OR WEATHER AND FORMED SURFACES IN CONTACT WITH EARTH	2"
FOR CONCRETE NOT EXPOSED TO WEATHER, OR IN CONTACT WITH WATER OR EARTH	1 1/2"

UNLESS OTHERWISE NOTED, WALLS AND SLABS SHOWN WITH A SINGLE LAYER OF REINFORCEMENT SHALL HAVE THAT REINFORCEMENT CENTERED

SLABS WITH SLOPING SURFACES SHALL HAVE THE INDICATED SLAB THICKNESS MAINTAINED AS THE MINIMUM. SLAB-ON-GRADE BOTTOMS MAY EITHER SLOPE WITH THE TOP SURFACE OR BE LEVEL. REINFORCING IN SLABS WITH SLOPING SURFACES SHALL BE PLACED AT THE REQUIRED CLEARANCE FROM THE SLAB SURFACES.

TESTING HYDRAULIC STRUCTURES

WHEN FILLING THE STRUCTURES WITH WATER FOR THE TEST REQUIRED IN THE SPECIFICATIONS, ALL VARIOUS BASINS LOCATED IN THE SAME STRUCTURE SHALL BE FILLED SIMULTANEOUSLY AT THE SAME RATE IN ORDER TO KEEP THE SAME LEVEL IN EACH BASIN.

STRUCTURAL STANDARD DETAILS

DETAILS ON GS SHEETS ARE PART OF STANTEC'S STRUCTURAL STANDARD DETAILS.

THESE DETAILS ARE TO BE USED WHEN REFERRED TO OR WHEN NO OTHER MORE RESTRICTIVE OR DIFFERENT DETAILS ARE INDICATED ON THE DRAWINGS.

DETAILS NOT PERTAINING TO THE PROJECT ARE MARKED WITH ▨

CONDUIT COORDINATION NOTES

REFER TO THE NOTES BELOW, AND ELECTRICAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS, FOR CONDUIT PLACEMENT REQUIREMENTS. CONDUIT NOT IN CONFORMANCE WITH THESE REQUIREMENTS SHALL NOT BE INSTALLED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

FOR CONDUIT RUNNING IN THE PLANE OF CONCRETE SLABS OR WALLS:

THE OUTSIDE DIAMETER OF THE CONDUIT SHALL NOT EXCEED ONE-THIRD OF MEMBER THICKNESS;

CONDUIT SHALL NOT BE SPACED CLOSER THAN 3 OUTSIDE DIAMETERS ON CENTER;

CONDUIT SHALL BE LOCATED ONLY WITHIN THE MIDDLE THIRD OF THE MEMBER ;

CONDUIT SHALL NOT BE SUPPORTED DIRECTLY ON REBAR.

FOR CONDUIT RUNNING THROUGH THE PLANE OF CONCRETE SLABS OR WALLS:

COORDINATE CONDUIT PLACEMENT TO AVOID OR MINIMIZE IMPACT TO REBAR PLACEMENT.

CONDUIT SHALL BE 2 INCHES MINIMUM CLEAR OF REBAR.

REBAR MAY BE SHIFTED 2 INCHES MAXIMUM TO AVOID CONDUIT.

WHERE REBAR MUST BE CUT TO ACCOMMODATE CONDUIT PLACEMENT, PROVIDE ADDITIONAL REINFORCEMENT PER DETAIL S-144, CONSIDERING THE CONDUIT PENETRATION(S) AS AN EQUIVALENT CIRCULAR OR RECTANGULAR OPENING, RESPECTIVELY.

CONDUIT SHALL NOT BE RUN IN OR THROUGH GRADE BEAMS.

GENERAL DESIGN CRITERIA

DESIGN IN ACCORDANCE WITH THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE, EXCEPT WHERE OTHER APPLICABLE CODES OR THE FOLLOWING NOTES ARE MORE RESTRICTIVE.

LOADINGS:

SOIL LOADS:

ALLOWABLE BEARING PRESSURE	
DEAD PLUS LIVE (PSF):	1500
ALL LOADS (W/WIND & SEISMIC) (PSF)	2000
FROST DEPTH (INCHES):	1'-6"
MINIMUM FOOTING WIDTH (INCHES):	24

FLOOR LIVE LOADS:

UNIFORM LIVE LOAD (PSF):	40
REDUCED LIVE LOAD (PSF):	35
CONCENTRATED LOAD (PSF):	2000
IMPACT LOAD (% OF LOAD):	130

ROOF LIVE LOADS:

ROOF LIVE LOAD (PSF):	20

WIND LOADS:

BASIC WIND SPEED (3 SEC - MPH):	98
WIND EXPOSURE:	C
RISK CATEGORY:	II
INTERNAL PRESSURE COEFFICIENT:	-0.55,+0.55
APPURTENANCE LOADING (PSF):	16.16

SEISMIC LOADS:

RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR (Ie):	1.0
SPECTRAL RESPONSE COEFFICIENT (Sds):	0.82
SPECTRAL RESPONSE COEFFICIENT (Sd1):	0.536
SITE CLASS:	D
SEISMIC DESIGN CATEGORY:	D
BASIC SEISMIC-FORCE-RESISTING SYSTEM:	

R_{ORM} = 1.0 (TYP FOR MOMENT FRAMES AND ROD BRACING)

SNOW LOADS:

GROUND SNOW LOAD (Pg)(PSF):	25
FLAT ROOF SNOW LOAD (Pf) (PSF):	25
SLOPED ROOF SNOW LOAD (Ps)(PFS):	25
SNOW EXPOSURE FACTOR(Ce):	0.9
SNOW IMPORTANCE FACTOR (Is):	1.0
THERMAL FACTOR (Ct):	1.2

SCHEDULE OF STRUCTURAL OBSERVATIONS

WHEN TO OBSERVE	WHAT TO OBSERVE
FOUNDATIONS/CONCRETE	
FOUNDATIONS - PRIOR TO THE FIRST CONCRETE POUR, BUT AFTER PLACEMENT OF REINFORCING IS UNDERWAY.	REVIEW AREA OF PARTICULAR CONCERN SUCH AS HIGHLY CONGESTED AREA OR ANY MECHANICALLY-COUPLED SPLICES AND CHECK THAT APPROVED PLACING PLANS ARE BEING USED. REVIEW ANCHOR BOLT PLACEMENT AND PLACEMENT OF HOLD-DOWN BOLTS OR STEEL EMBEDS.
STEEL FRAMING	
AFTER THE FIRST TIER HAS BEEN ERECTED AND PLUMBED, AND BOLT TIGHTENING AND JOINT WELDING IS UNDERWAY.	OBSERVE THE WORK IN PROGRESS, MEET WITH SPECIAL INSPECTORS FOR THE WELDING AND BOLT TIGHTENING OPERATIONS, PAY PARTICULAR ATTENTION TO THE PROCEDURES USED FOR WELDING OF MOMENT FRAME JOINTS.
NONSTRUCTURAL AND NONBUILDING STRUCTURES	
FOLLOWING THE COMPLETION OF NONSTRUCTURAL AND NONBUILDING STRUCTURES INSTALLATION.	OBSERVE CONNECTIONS OF EQUIPMENT TO THE FOUNDATION; CAST-IN-PLACE ANCHORS AND POST-INSTALLED ANCHORS.

STRUCTURAL OBSERVATIONS:

1. STRUCTURAL OBSERVATIONS WILL BE PROVIDED IN ACCORDANCE WITH THE 2015 IBC. THE OWNER WILL EMPLOY THE ENGINEER OF RECORD, HIS/HER DESIGNEE, OR A [WA] REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS, AND WHO WILL PROVIDE ALL SERVICES NECESSARY TO MEET THE IBC STRUCTURAL OBSERVATIONS REQUIREMENTS.
2. STRUCTURAL OBSERVATIONS WILL BE PROVIDED DURING ALL FABRICATION AND CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE NOTES AND SCHEDULES ON THIS DRAWING.
3. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE STRUCTURAL OBSERVER AT LEAST 3 BUSINESS DAYS PRIOR TO EACH REQUIRED STRUCTURAL OBSERVATION.

ALUMINUM

ALUMINUM CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALUMINUM ASSOCIATION ASM 35 - SPECIFICATION FOR ALUMINUM SHEET METAL WORK IN BUILDING CONSTRUCTION. ALUMINUM SURFACES SHALL BE PREVENTED FROM COMING IN DIRECT CONTACT WITH CONCRETE OR WITH METALS NOT COMPATIBLE WITH ALUMINUM, USING METHODS DESCRIBED IN THE SPECIFICATIONS.

STAINLESS STEEL

REFER TO SPECIFICATIONS FOR STAINLESS STEEL GRADES REQUIRED.

STATEMENT OF SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH THE 2015 IBC CHAPTER 17. THE OWNER WILL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR, WHO WILL PROVIDE ALL SERVICES NECESSARY TO MEET THE IBC SPECIAL INSPECTION REQUIREMENTS.
2. SPECIAL INSPECTIONS WILL BE PROVIDED DURING ALL FABRICATION AND CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE NOTES AND SCHEDULES ON THIS DRAWING.
3. SPECIAL INSPECTION FOR THE MAIN WIND-FORCE-RESISTING SYSTEM AND EXTERIOR CLADDING WILL BE PROVIDED AS INDICATED BELOW:
   A. WIND FORCE RESISTING SYSTEM:
      1. STEEL FRAME: SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH TABLE 1704.3.
      2. STEEL ROOF DIAPHRAGM: PERIODIC SPECIAL INSPECTION IS REQUIRED DURING WELDING, SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS.
      3. EXTERIOR WALLS: PERIODIC SPECIAL INSPECTION IS REQUIRED FOR NAILING, SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS.
      4. WALL CONNECTIONS TO STEEL FRAMES: PERIODIC SPECIAL INSPECTION IS REQUIRED FOR BOLTING, WELDING, ANCHORING AND OTHER FASTENING OF WALLS TO STEEL FRAMES.
      5. WALL CONNECTIONS TO THE FOUNDATION: SPECIAL INSPECTION FOR ALL CONCRETE ANCHOR INSTALLATION IS REQUIRED IN ACCORDANCE WITH THE APPLICABLE ICC OR IAPMO EVALUATION REPORT. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF THE HOLD-DOWNS TO THE ANCHOR BOLTS AND TO THE WALL STUDS.
   B. ROOF, WALL, AND SOFFIT CLADDING:
      1. PERIODIC SPECIAL INSPECTION IS REQUIRED DURING WELDING, NAILING, SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS.
4. SPECIAL INSPECTION FOR THE SEISMIC FORCE RESISTING SYSTEM AND MECHANICAL AND ELECTRICAL EQUIPMENT WILL BE PROVIDED AS INDICATED BELOW:
   A. SEISMIC FORCE RESISTING SYSTEM:
      1. WALL CONNECTIONS TO THE FOUNDATION: SPECIAL INSPECTION OF WALL DOWELS INTO THE FOUNDATION. SPECIAL INSPECTION FOR ALL CONCRETE ANCHOR INSTALLATION WHERE REQUIRED IN ACCORDANCE WITH IBC TABLE 1705.3.
      2. WALL CONNECTION TO ROOF TRUSS & RAFTERS: SPECIAL INSPECTION AS REQUIRED FOR BOLTING, WELDING, ANCHORING AND OTHER FASTENING OF WALLS TO STEEL FRAMES. SPECIAL INSPECTION REQUIRED FOR WELDING, AND ANCHORAGE AT COLLECTOR PER AISC 360.
      3. STEEL ROOF DIAPHRAGM: PERIODIC SPECIAL INSPECTION IS REQUIRED FOR SCREW ATTACHMENT, BOLTING, ANCHORING, WELDING AND OTHER FASTENING OF COMPONENTS.
   B. MECHANICAL AND ELECTRICAL COMPONENTS AS NOTED BELOW:
      1. PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS
      2. PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT.
      3. PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF VIBRATION ISOLATION SYSTEMS.
5. ADDITIONAL SPECIAL INSPECTIONS WILL BE PROVIDED WHERE REQUIRED BY THE 2012 IBC CHAPTER 17.

DEFINITIONS

1. REFER TO SECTION 1702 AND CHAPTER 2 OF THE 2015 IBC FOR DEFINITION OF TERMS APPLICABLE TO SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS.

A. SPECIFIC DEFINITIONS

HIGH STRENGTH BOLT	AN ASTM A325 OR A490 BOLT, AN ASTM F1852 TWIST-OFF-TYPE TENSION-CONTROL BOLT OF AN ALTERNATIVE-DESIGN FASTENER THAT MEETS THE REQUIREMENTS IN AISC 360 SECTION 2.8.

CONTRACTOR RESPONSIBILITY

1. EACH CONTRACTOR RESPONSIBLE FOR THE FABRICATION OR CONSTRUCTION OF A MAIN WIND-FORCE-RESISTING SYSTEM OR MAIN SEISMIC-FORCE RESISTING SYSTEM OR COMPONENT LISTED ABOVE SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

STRUCTURAL NOTES 1

DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
GS-1

C:\Users\EllianneBowen\DC\ACCDocs\McMillen Inc\26-017 Tulalip Lower Pond Improvements\Project Files\Design Technology\Structural\GS-1.dwg

Exhibit C Page 39 of 101

OTHER STRUCTURAL STEEL INSPECTION TASKS

ADDITIONAL INSPECTION REQUIREMENTS OF THE QUALITY ASSURANCE PROCEDURES ARE AS FOLLOWS:

A) INSPECTION SHALL BE PERFORMED DURING THE PLACEMENT OF THE ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OF THE EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO THE PLACEMENT OF CONCRETE.

B) INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

C) MATERIAL VERIFICATION OF STRUCTURAL STEEL:

I) IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.

II) MANUFACTURERS' VERTIFIED MILL TEST REPORTS.

D) INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:

I) DETAILS SUCH AS BRACING AND STIFFENING.

II) MEMBERS LOCATIONS

III) APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC SECTION 1705.2.2)

VERIFICATION AND INSPECTION	INSPECTION		REFERENCED STANDARDS
	CONTINUOUS	PERIODIC	
MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	APPLICABLE ASTM MATERIAL STANDARDS
MANUFACTURER'S CERTIFIED TEST REPORTS.	-	X	
INSPECTION OF WELDING:			
COLD-FORMED STEEL DECK			
FLOOR AND ROOF DECK WELDS	-	X	AWS D1.3
REINFORCING STEEL:			
VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	-	X	AWS D1.4 ACI 318: SECTION 3.5.2

INSPECTION OF CONCRETE CONSTRUCTION

1. SPECIAL INSPECTION FOR CONCRETE CONSTRUCTION WILL BE IN ACCORDANCE WITH IBC SECTION 1705.3 AND THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION	INSPECTION		REFERENCED STANDARD (A)	IBC REFERENCE
	CONTINUOUS	PERIODIC		
INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT.	-	X	ACI 318: 3.5, 7.1 - 7.7	1910.4
INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2 ITEM 2b.	-	-	AWS D1.4 ACI 318: 3.5.2	-
INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	-	X	ACI 318 - 8.1.3, 21.2.8	1908.5, 1909.1
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (B).	-	X	ACI 318- 3.8.6, 8.1.3, 21.2.8	1909.1
VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 4, 5.2 - 5.4	1904.2, 1910.2, 1910.3
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 5.11 - 5.13	1910.9
ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: CH. 16	-
VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 6.2	-
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 6.1.1	-

(A) WHERE APPLICABLE, SEE ALSO IBC SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

(B) SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS WILL BE AS SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND WILL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK.

INSPECTION OF SOILS

1. SPECIAL INSPECTION FOR SOIL WILL BE IN ACCORDANCE WITH IBC SECTION 1705.6 AND THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION	INSPECTION	
	CONTINUOUS	PERIODIC
VERIFY MATERIALS BELOW FOOTINGS AND SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	-	X
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	-
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

DEFERRED SUBMITTALS:

DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE PROVIDED BY THE CONTRACTOR AND THEREFORE WERE NOT SUBMITTED AT THE TIME OF THE PERMIT APPLICATION, AND WHICH ARE TO BE SUBMITTED TO THE PERMITTING AGENCY PRIOR TO FABRICATION OR INSTALLATION OF THAT PORTION OF THE WORK.

NO WORK SHALL BE PERFORMED FOR DEFERRED SUBMITTAL ITEMS UNTIL THE PLANS FOR SUCH WORK HAVE BEEN REVIEWED AND FOUND ACCEPTABLE BY THE STRUCTURAL ENGINEER OF RECORD AND APPROVED BY THE BUILDING OFFICIAL.

DRAWINGS AND CALCULATIONS FOR THESE ITEMS SHALL BE SIGNED AND SEALED BY A LICENSED [WASHINGTON] PROFESSIONAL ENGINEER. NO FABRICATION SHALL COMMENCE UNTIL THE FINAL APPROVAL HAS BEEN ISSUED BY THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER OF RECORD.

THE DEFERRED SUBMITTALS SHALL INCLUDE AS A MINIMUM, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:

SPECIFICATION SECTION	ITEM
01 33 17	EQUIPMENT ANCHORAGE
05 52 00	HANDRAIL SYSTEM

STRUCTURAL OBSERVATIONS:

1. STRUCTURAL OBSERVATIONS WILL BE PROVIDED IN ACCORDANCE WITH THE 2015 IBC. THE OWNER WILL EMPLOY THE ENGINEER OF RECORD, HIS/HER DESIGNEE, OR A [WA] REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS, AND WHO WILL PROVIDE ALL SERVICES NECESSARY TO MEET THE IBC STRUCTURAL OBSERVATIONS REQUIREMENTS.
2. STRUCTURAL OBSERVATIONS WILL BE PROVIDED DURING ALL FABRICATION AND CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE NOTES AND SCHEDULES ON THIS DRAWING.
3. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE STRUCTURAL OBSERVER AT LEAST 3 BUSINESS DAYS PRIOR TO EACH REQUIRED STRUCTURAL OBSERVATION.

INSPECTION OF HIGH STRENGTH BOLTS PER AISC 360

AS A MINIMUM BOLTING INSPECTION TASKS SHALL BE IN ACCORDANCE WITH TABLES N5.6-1, N5.6-2 AND N5.6-3. INSPECTION TASKS ARE AS FOLLOWS:

O- OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P- PERFORM THESE TASKS FOR EACH BOLTED CONNECTION.

INSPECTION TASKS PRIOR TO BOLTING (AISC 360 TABLE N5.6-1)

INSPECTIN TASKS PRIOR TO BOLTING	INSPECTION	
	QUALITY CONTROL	QUALITY ASSURANCE
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTED ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O

INSPECTION TASKS DURING BOLTING (AISC 360 TABLE N5.6-2)

INSPECTION TASKS DURING BOLTING	INSPECTION	
	QUALITY CONTROL	QUALITY ASSURANCE
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O

INSPECTION TASKS AFTER BOLTING (AISC 360 TABLE N5.6-3)

VERIFICATION AND INSPECTION	INSPECTION	
	QUALITY CONTROL	QUALITY ASSURANCE
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

INSPECTION OF STRUCTURAL STEEL CONSTRUCTION

1. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE AND QUALITY CONTROL INSPECTION REQUIREMENTS OF AISC 360 AND AISC 341.
2. THE CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL PROCEDURES IN ACCORDANCE WITH THE REQUIREMENTS OF AISC 360 CHAPTER N AND AISC 341 CHAPTER J.
3. THE OWNER IS RESPONSIBLE FOR QUALITY ASSURANCE PROCEDURES IN ACCORDANCE WITH THE REQUIREMENTS OF AISC 360 CHAPTER N AND AISC 341 CHAPTER J.
4. THE INSPECTION TABLES AND NOTES PROVIDED ON THIS SHEET ARE INTENDED ONLY TO ASSIST THE CONSTRUCTION PERSONNEL IN IDENTIFYING QUALITY CONTROL AND QUALITY ASSURANCE INSPECTION REQUIREMENTS. THE REQUIREMENTS OF AISC 360 CHAPTER N AND AISC 341 CHAPTER J ARE MINIMUM REQUIREMENTS, AND THE QUALITY CONTROL INSPECTOR(S) AND QUALITY ASSURANCE INSPECTOR(S) ARE RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF AISC 360 CHAPTER N AND AISC 341 CHAPTER J, WHETHER INDICATED ON THIS SHEET OR NOT. IF ANY INSPECTIONS ARE REQUIRED IN ADDITION TO THE AISC 360 CHAPTER N AND AISC 341 CHAPTER J INSPECTIONS, SUCH INSPECTIONS ARE INDICATED ON THIS SHEET. IF A DISCREPANCY EXISTS BETWEEN THE REQUIREMENTS OF AISC 360 CHAPTER N AND AISC 341 CHAPTER J AND THE REQUIREMENTS OF THIS DRAWING, THE MORE STRINGENT REQUIREMENT SHALL APPLY, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

INSPECTION OF WELDING PER AISC 360

AS A MINIMUM WELDING INSPECTION TASKS SHALL BE IN ACCORDANCE WITH TABLES N5.4-1, N5.4-2 AND N5.4-3. INSPECTION TASKS ARE AS FOLLOWS:

O- OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P- PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.

INSPECTION TASKS PRIOR TO WELDING (AISC 360 TABLE N5.4-1)

INSPECTION TASK PRIOR TO WELDING	INSPECTION		AWS D1.1/D1.1M REFERENCES
	QUALITY CONTROL	QUALITY ASSURANCE	
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P	6.3
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P	6.2
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	6.2
WELDER IDENTIFICATION SYSTEM*	O	O	6.4
FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY) -JOINT PREPARATION -DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) -CLEANLINESS (CONDITION OF SURFACES) -TACKING (QUALITY AND LOCATION) -BACKING TYPE AND FIT (IF APPLICABLE)	O	O	6.5.2 5.22 5.15 5.18 5.10, 5.22.1.1
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	6.5.2, 5.17, AISC J1.6
FIT-UP OF FILLET WELDS -DIMENSIONS (ALIGNMENT, GAPS AT ROOT) -CLEANLINESS (CONDITION OF SURFACES) -TACKING (QUALITY AND LOCATION)	O	O	5.22.1 5.15 5.18
CHECK WELDING EQUIPMENT	O	-	6.2, 5.11

*THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

INSPECTION TASKS DURING WELDING (AISC 360 TABLE N5.4-2)

INSPECTION TASK DURING WELDING	INSPECTION		AWS D1.1/D1.1M REFERENCES
	QUALITY CONTROL	QUALITY ASSURANCE	
USE OF QUALIFIED WELDERS	O	O	6.4
CONTROL AND HANDLING OF WELDING CONSUMABLES -PACKAGING -EXPOSURE CONTROL	O	O	6.2 5.3.1 5.3.2 (FOR SMAW), 5.3.3 (FOR SAW)
NO WELDING OVER CRACKED TACK WELDS	O	O	5.18
ENVIRONMENTAL CONDITIONS -WIND SPEED WITHIN LIMITS -PRECIPITATION AND TEMP	O	O	5.12.1 5.12.2
WPS FOLLOWED: -SETTINGS ON WELDING EQUIP. -TRAVEL SPEED -SELECTED WELDING MATERIALS -SHIELDED GAS TYPE/FLOW RATE -PREHEAT APPLIED -INTERPASS TEMPERATURE (MIN/MAX) -PROPER POSITION (F, V, H, OH)	O	O	6.3.3, 6.5.2, 5.5, 5.21 5.6, 5.7
WELDING TECHNIQUES -INTERPASS AND FINAL CLEANING -EACH PASS WITHIN PROFILE LIMITATIONS -EACH PASS MEETS QUALITY REQUIREMENTS	O	O	6.5.2, 6.5.3, 5.24 5.30.1

INSPECTION TASKS AFTER WELDING (AISC 360 TABLE N5.4-3)

INSPECTION TASKS AFTER WELDING	INSPECTION		AWS D1.1/D1.1M REFERENCES
	QUALITY CONTROL	QUALITY ASSURANCE	
WELDS CLEANED	O	O	5.30.1
SIZE, LENGTH AND LOCATION OF WELDS	P	P	6.5.1
WELDS MEET VISUAL ACCEPTANCE CRITERIA -CRACK PROHIBITION -WELD/BASE METAL FUSION -CRATER CROSS SECTION -WELD PROFILES -WELD SIZE -UNDERCUT -POROSITY	P	P	6.5.3 TABLE 6.1(1) TABLE 6.1(2) TABLE 6.1(3) TABLE 6.1(4), 5.24 TABLE 6.1(6) TABLE 6.1(7) TABLE 6.1(8)
ARC STRIKES	P	P	5.29
K-AREA*	P	P	-
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P	5.10, 5.31
REPAIR ACTIVITIES	P	P	6.5.3, 5.26
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	6.5.4, 6.5.5

*WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PREFORMED IN THE K-AREA, VISUALLY INSPECT THE WED K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
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WARNING
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TULALIP TRIBES

TULALIP TRIBES

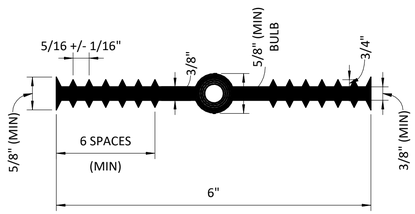
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

STRUCTURAL NOTES 2

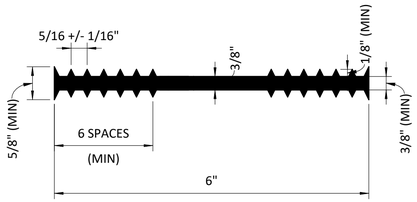
DESIGNED M. VASILEV
DRAWN R. WOOD
CHECKED J. BURGI
PROJECT DATE 06/29/26

DRAWING
GS-2

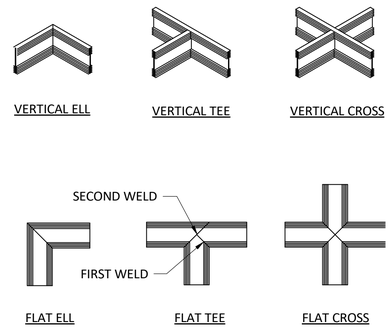
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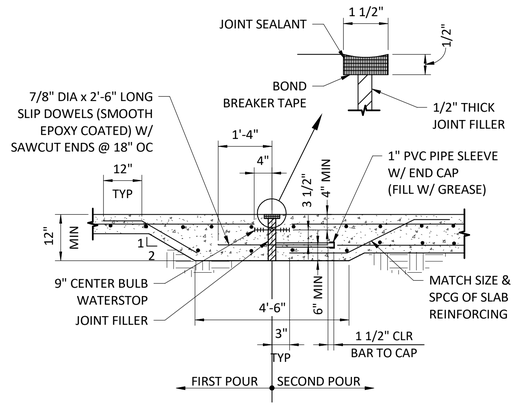
S-103 6" CENTERBULB WATERSTOP
SCALE: NTS



S-105 6" FLATSTRIP WATERSTOP
SCALE: NTS



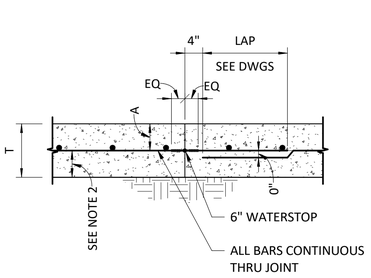
S108 PREFABRICATED WATERSTOP JOINTS
SCALE: NTS



S109 SLAB-ON-GRADE EXPANSION JOINT
SCALE: NTS

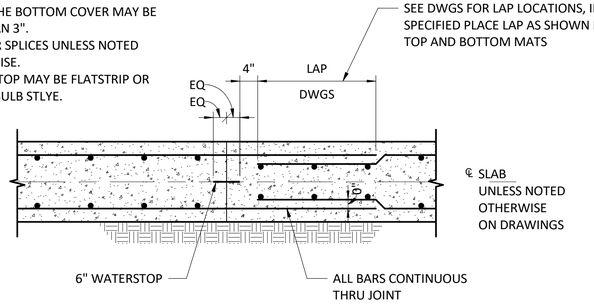
NOTES:

1. WATERSTOPS TO BE PROVIDE IN ALL WATER RETAINING SLABS, SEE DRAWINGS FOR OTHER LOCATIONS WHERE THEY MAY BE REQUIRED.
2. DIMENSIONS INDICATED ON DETAIL CONTROL MINIMUM COVER FOR THIN SLABS, THE BOTTOM COVER MAY BE LESS THAN 3".
3. STAGGER SPLICES UNLESS NOTED OTHERWISE.
4. WATERSTOP MAY BE FLATSTRIP OR CENTERBULB STLYE.



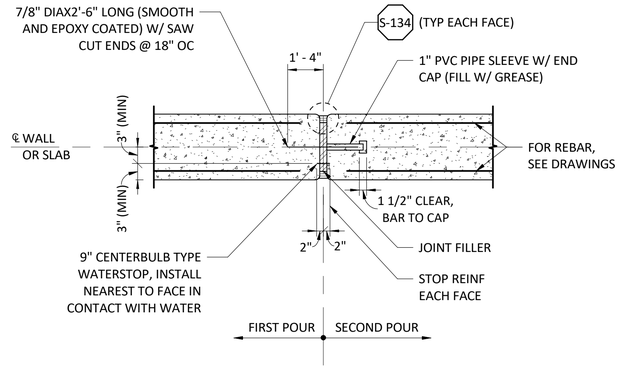
SINGLE MAT REINF - CONTINUOUS THRU JOINT

S112 WITH WATERSTOP
SCALE: NTS

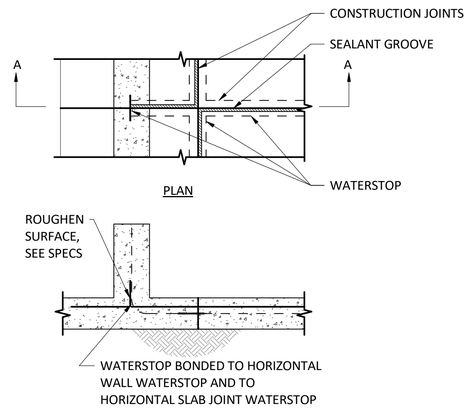


DOUBLE MAT REINF

S114 WITH WATERSTOP
SCALE: NTS



S116 WALL EXPANSION JOINT
SCALE: NTS



NOTES:

CONSTRUCTION JOINTS PASSING THROUGH VARIOUS MEMBERS OF A WATER RETAINING STRUCTURE SHALL BE SEALED WITH WATERSTOPS BONDED TOGETHER, SO AS TO PROVIDE A CONTINUOUS WATERTIGHT JOINT.

S-118 CONSTRUCTION JOINT (WALL TO SLAB)
SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

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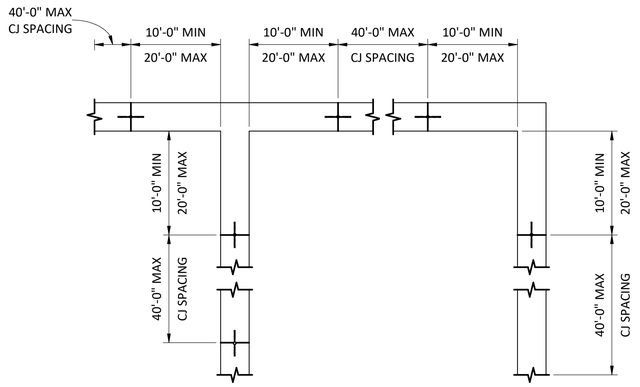
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
STRUCTURAL STANDARD DETAILS 1

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
GS-3

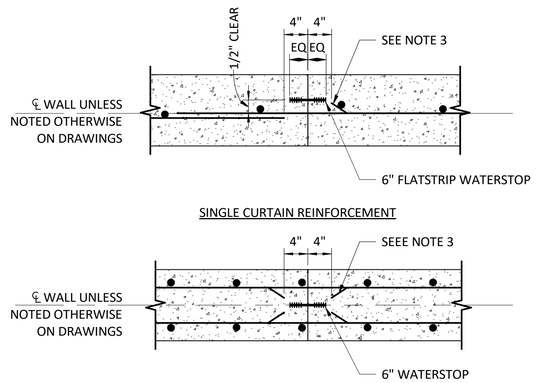
Exhibit E.1 Page 41 of 161

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NOTE:
1. LOCATE WALL CONSTRUCTION JOINTS AS SHOWN, UNLESS INDICATED OTHERWISE.

S119 WALL CONSTRUCTION JOINT SPACING
SCALE: NTS

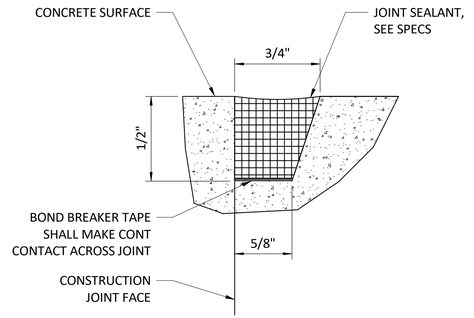


SINGLE CURTAIN REINFORCEMENT

DOUBLE CURTAIN REINFORCEMENT

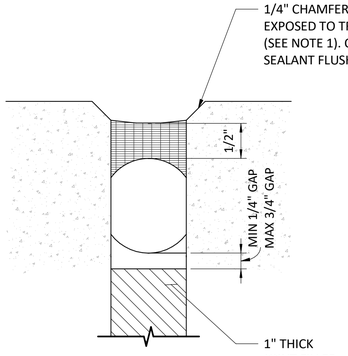
NOTES:
1. WHERE WATERSTOP IS REQUIRED IN SINGLE CURTAIN WALL REINFORCEMENT, PLACE WATERSTOP ON WATER SIDE OF WALL.
2. UNLESS OTHERWISE NOTED 3/4" CHAMFERS SHALL BE OMITTED IN SURFACES TO RECEIVE ARCHITECHTURAL TREATMENT.
3. UNLESS SPECIFICALLY NOTED OTHERWISE #5 AND LARGER BARS SHALL BE CONTINUOUS THRU JOINT #4 AND SMALLER BARS SHALL STOP ALTERNATE BARS AT JOINT.
4. STAGGER SPLICES UNLESS NOTED OTHERWISE.
5. WATERSTOP MAY BE FLATSTRIP OR CENTERBULB STYLE.

S123 VERTICAL WALL CONSTRUCTION JOINT
SCALE: NTS

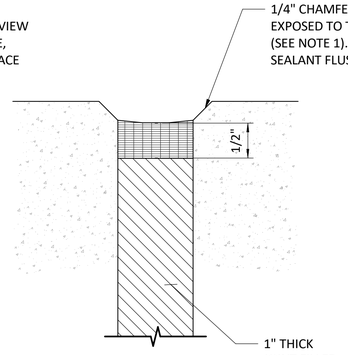


NOTES:
1. ALL FLOOR JOINTS OF HYDRAULIC STRUCTURES (MEMBERS COVERED WITH WATER) SHALL HAVE A SEALANT GROOVE.
2. SANDBLASTING REQUIRED PRIOR TO APPLICATION OF PRIMER.

S131 SEALANT GROOVE
SCALE: NTS

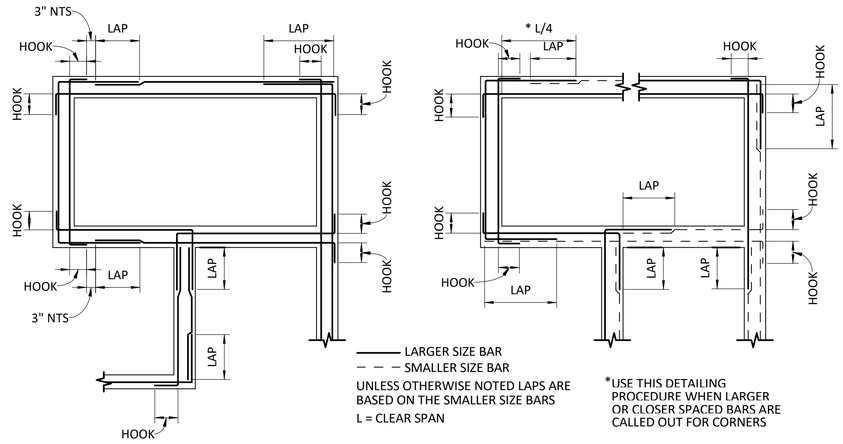


BACKER ROD OPTION



BOND BREAKER TAPE OPTION

S134 SEALANT AT EXPANSION JOINT
SCALE: NTS



S141 HORIZONTAL REINFORCEMENT AT WALL INTERSECTIONS
SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

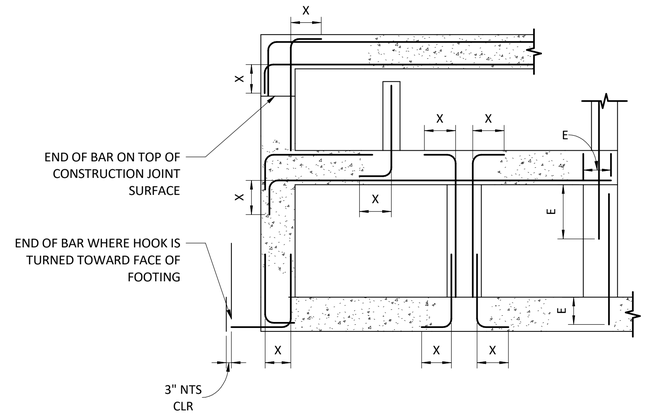
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
STRUCTURAL STANDARD DETAILS 2

DESIGNED AG
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ISSUED DATE 06/29/2026

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GS-4

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SECTION

LENGTH (*)			
BAR SIZE T	HOOK X	LAP	EMBEDMENT E
#3	6"	16" (21")	12" (16")
#4	8"	16" (21")	12" (16")
#5	10"	20" (26")	15" (20")
#6	12"	28" (37")	22" (28")
#7	14"	48" (62")	37" (48")
#11	16"	62" (81")	48" (62")
#8	19"	79" (102")	61" (79")
#9	22"	100" (130")	77" (100")
#10	24"	123" (160")	95" (123")

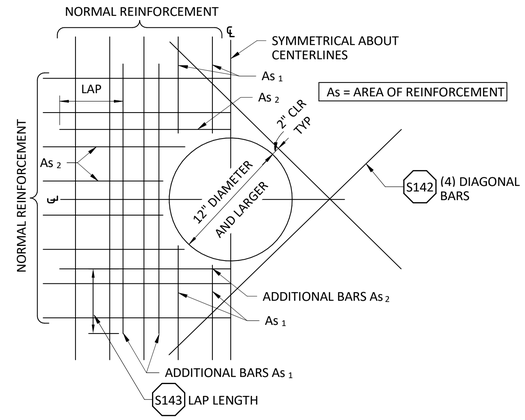
* USE LENGTH IN PARENTHESIS FOR WALL HORIZONTAL REBARS AND SLAB BARS WITH 12" OR MORE OF FRESH CONCRETE UNDERNEATH.

NOTES:

1. USE LAP LENGTHS AS DETERMINED FROM THESE TABLES UNLESS SHOWN OTHERWISE.
2. THE TABLES SHOWN ARE FOR f'c=4000psi, fy=60,000psi, 1.5" MIN CONCRETE COVER AND 3" MIN BAR SPACING.
3. MULTIPLY THE LAP AND E SHOWN IN THESE TABLES BY 1.5 FOR EPOXY COATED REINFORCING.
4. WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED, LAP LENGTH SHALL BE THE LARGER OF: EMBEDMENT LENGTH OF LARGER BAR LAP OR LENGTH OF SMALLER BAR.
5. UNLESS NOTED OTHERWISE USE REBAR COUPLERS FOR SPLICES OF #11 AND LARGER BARS.
6. ALL DOWEL BARS SHALL EXTEND AN EMBEDMENT LENGTH E INTO ANOTHER MEMBER OR ACROSS A CONSTRUCTION JOINT UNLESS SHOWN TO SPLICE WITH OTHER BARS OR TO EXTEND TO THE FAR FACE OF THE MEMBER AND END WITH A STANDARD HOOK.

S143 STANDARD 90° BAR HOOKS, EMBEDMENT LENGTHS AND LAP LENGTHS

SCALE: NTS

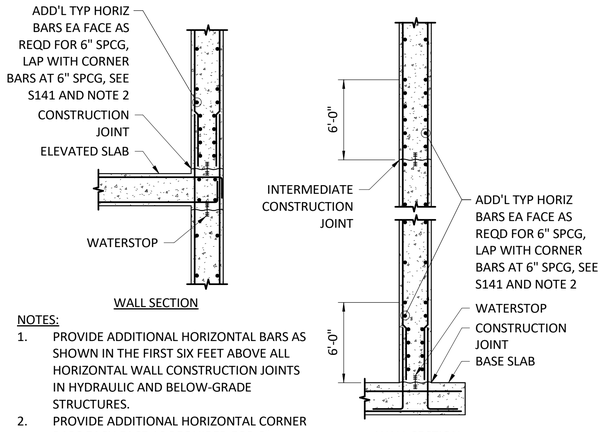


NOTES:

1. THIS DETAIL TO BE USED AT ALL CIRCULAR OPENINGS EXCEPT WHEN OTHER DETAILING IS INDICATED ON THE DRAWINGS.
2. CUT NORMAL REINFORCEMENT 2" CLEAR OF OPENING.
3. CUT NORMAL REINFORCEMENT AT OPENINGS:
   A. AS_1 AND AS_2 = 1/2 AREA OF TOTAL CUT BARS TO BE ADDED ON EACH SIDE OF OPENING.
4. DIAGONAL AND ADDITIONAL BARS AS_1 AND AS_2 TO BE PLACED.
   A. AT CENTERLINE OF WALLS OR SLABS WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.
   B. AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
5. UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT.
6. INCREASE SIZE OF ADDITIONAL BARS AS NEEDED TO FIT WITHIN A DISTANCE OF 2X WALL/SLAB THICKNESS FROM OPENING, PROVIDE 2" MIN CLEAR BETWEEN BARS.
7. WHERE A SLAB OR INTERSECTING WALL CONNECTS WITHIN ONE WALL THICKNESS OF THE OPENING, ADDITIONAL BARS ON THAT SIDE OF THE OPENING MAY BE OMITTED.
8. WHEN THE LAP LENGTH OF THE ADDITIONAL BARS CANNOT BE ACHIEVED DUE TO AN ADJACENT WALL OR SLAB, ADDITIONAL CORNER BARS OR SLAB DOWELS, RESPECTIVELY, MATCHING THE CUT BARS, ARE TO BE INCLUDED IN THE ADJACENT WALL OR SLAB TO LAP WITH THE ADDITIONAL BARS.

S144 ADDITIONAL REINFORCEMENT AT CIRCULAR OPENINGS

SCALE: NTS



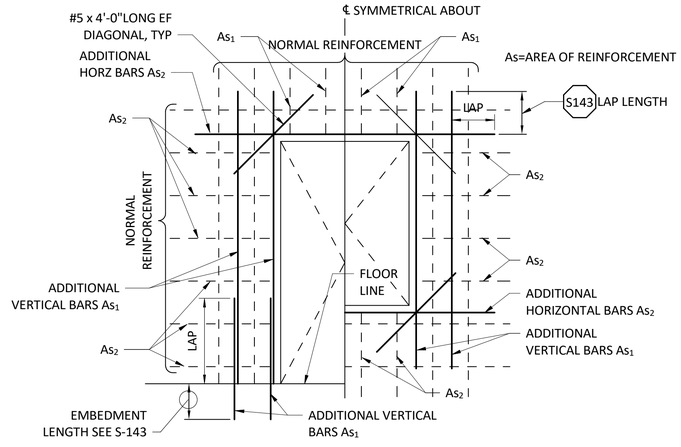
WALL SECTION

NOTES:

1. PROVIDE ADDITIONAL HORIZONTAL BARS AS SHOWN IN THE FIRST SIX FEET ABOVE ALL HORIZONTAL WALL CONSTRUCTION JOINTS IN HYDRAULIC AND BELOW-GRADE STRUCTURES.
2. PROVIDE ADDITIONAL HORIZONTAL CORNER BARS EACH FACE AS REQUIRED FOR 6" SPACING TO LAP WITH ADDITIONAL TYPICAL HORIZONTAL BARS SHOWN.

S146 ADDITIONAL REINFORCING AT HORIZ CONSTRUCTION JOINT

SCALE: NTS



ELEVATION

NOTES:

1. CUT NORMAL REINFORCEMENT AT OPENINGS:
   A. AS_1 AND AS_2 = 1/2 AREA OF TOTAL CUT BARS TO BE ADDED ON EACH SIDE OF OPENING.
2. DIAGONAL AND ADDITIONAL BARS AS_1 AND AS_2 TO BE PLACED.
   A. AT CENTERLINE OF WALLS OR SLABS WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.
   B. AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
3. UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT.
4. INCREASE SIZE OF ADDITIONAL BARS AS NEEDED TO FIT WITHIN A DISTANCE OF 2X WALL/SLAB THICKNESS FROM OPENING, PROVIDE 2" MIN CLEAR BETWEEN BARS.
5. WHERE A SLAB OR INTERSECTING WALL CONNECTS WITHIN ONE WALL THICKNESS OF THE OPENING, ADDITIONAL BARS ON THAT SIDE OF THE OPENING MAY BE OMITTED.
6. WHEN THE LAP LENGTH OF THE ADDITIONAL BARS CANNOT BE ACHIEVED DUE TO AN ADJACENT WALL OR SLAB, ADDITIONAL CORNER BARS OR SLAB DOWELS, RESPECTIVELY, MATCHING THE CUT BARS, ARE TO BE INCLUDED IN THE ADJACENT WALL OR SLAB TO LAP WITH THE ADDITIONAL BARS.

S148 ADDITIONAL REINFORCEMENT AROUND RECTANGULAR OPENINGS

SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
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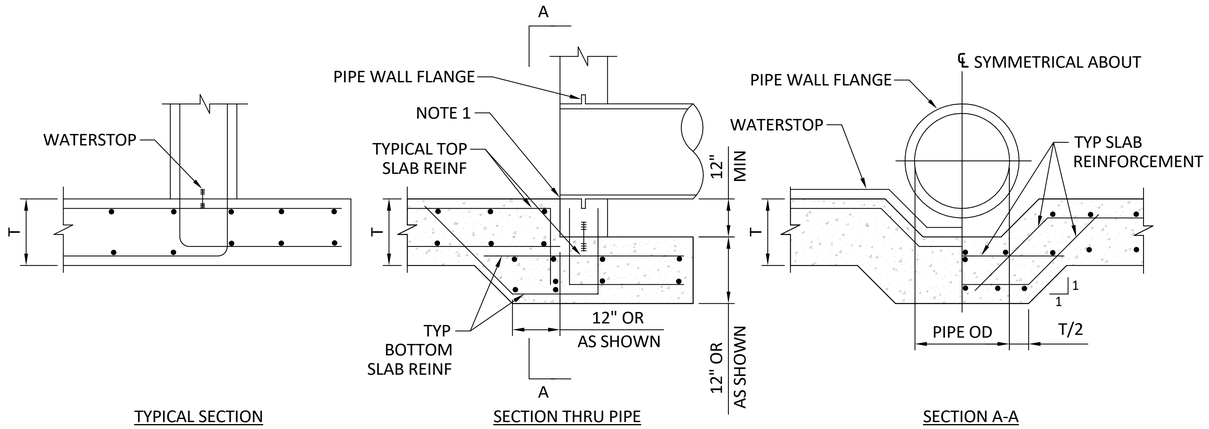
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
STRUCTURAL STANDARD DETAILS 3

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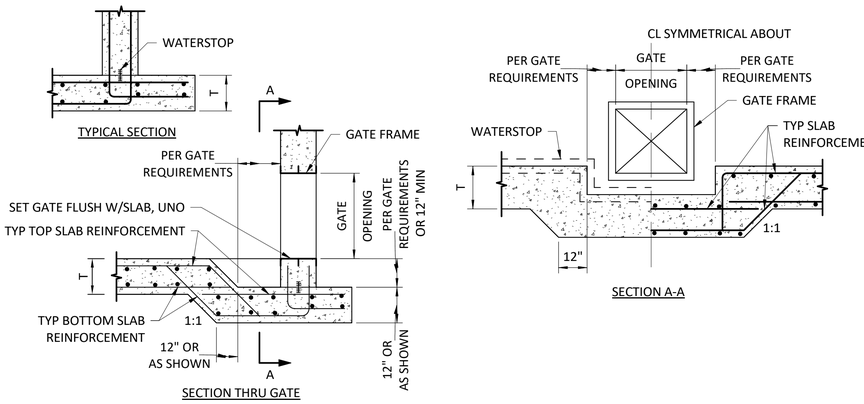
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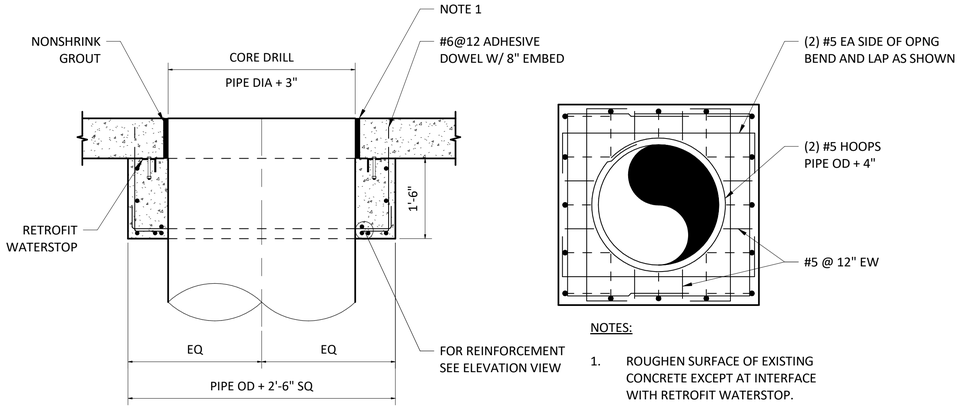
S150 FOOTING AT WALL PIPE CONNECTION

SCALE: NTS



S151 FLOOR SLAB POCKET FOR SLUICE GATE INSTALLATION

SCALE: NTS



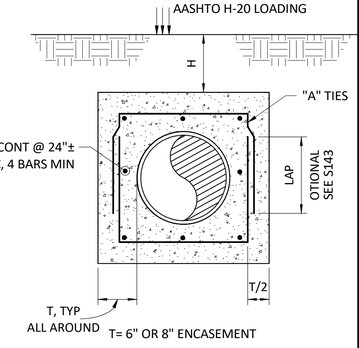
NOTES:

1. ROUGHEN SURFACE OF EXISTING CONCRETE EXCEPT AT INTERFACE WITH RETROFIT WATERSTOP.

ELEVATION

S154 RETROFIT PIPE COLLAR

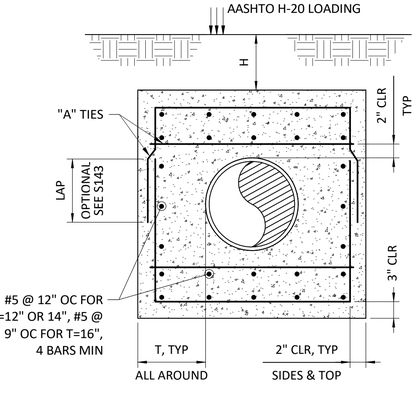
SCALE: NTS



COVER H	PIPE OUTSIDE DIAMETER									
	8"-24"		30"-32"		36"		42"-54"		60"-72"	
	A	T	A	T	A	T	A	T	A	T
2' MIN	#4@12"	6"	#4@12"	6"	#4@9"	6"	#5@12"	8"	#4@9"	12"
3'	#4@12"	6"	#4@12"	6"	#4@12"	6"	#4@9"	8"	#5@12"	8"
4'	#4@12"	6"	#4@12"	6"	#4@12"	6"	#4@12"	8"	#5@10"	8"
5'	#4@12"	6"	#4@12"	6"	#4@12"	6"	#4@12"	8"	#5@10"	8"
6'	#4@12"	6"	#4@12"	6"	#4@12"	6"	#4@9"	8"	#5@10"	8"
7'	#4@12"	6"	#4@12"	6"	#4@12"	6"	#4@9"	8"	#6@12"	8"
8'	#4@12"	6"	#4@12"	6"	#4@9"	6"	#5@12"	8"	#6@10"	8"
9'	#4@12"	6"	#4@9"	6"	#4@9"	6"	#5@10"	8"	#4@9"	12"
10'	#4@12"	6"	#4@12"	8"	#4@9"	8"	#5@10"	8"	#5@12"	12"
12'	#4@12"	8"	#4@12"	12"	#4@12"	12"	#4@9"	12"	#5@10"	12"
14'	#4@12"	12"	#4@12"	12"	#4@12"	12"	#4@9"	12"	#6@12"	12"
16'	#4@12"	12"	#4@12"	12"	#4@12"	12"	#5@12"	12"	#6@10"	12"
18'	#4@12"	12"	#4@12"	12"	#4@9"	12"	#5@10"	12"	#6@10"	14"
20'	#4@12"	12"	#4@9"	12"	#4@9"	12"	#6@12"	14"	#6@10"	16"

NOTES:

1. WHERE ENCASEMENT PASSES UNDER SPREAD FOOTING OR MAT FOUNDATION, USE H=20', UNO.
2. ALL ENCASEMENTS UNDER STRUCTURES SHALL BE SEPARATED FROM THE STRUCTURE FOUNDATIONS BY BACKFILL OR 2 LAYERS OF 40# FELT, UNO.
3. WHEN ENCASEMENTS TERMINATE AT STRUCTURE, ENCASEMENT REINF SHALL BE DOWELED INTO THE STRUCTURE.



S171 PIPE ENCASEMENT

SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

STRUCTURAL STANDARD DETAILS 4

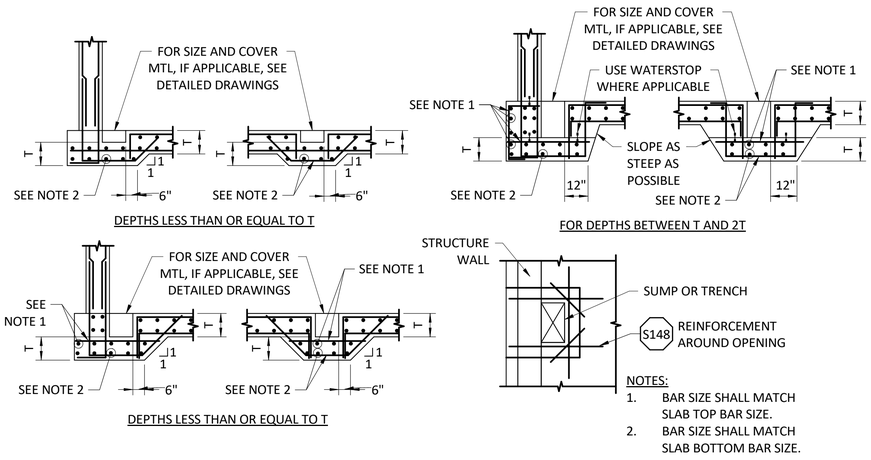
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ISSUED DATE 06/29/2026

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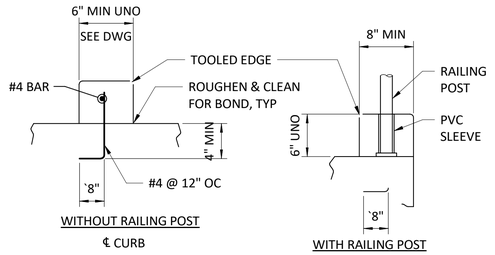
Exhibit E.1 Page 44 of 161

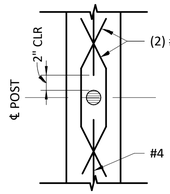
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NOTES:
1. BAR SIZE SHALL MATCH SLAB TOP BAR SIZE.
2. BAR SIZE SHALL MATCH SLAB BOTTOM BAR SIZE.

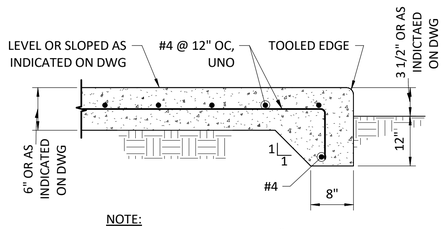
S177 REINFORCING AT SUMPS AND TRENCHES
SCALE: NTS





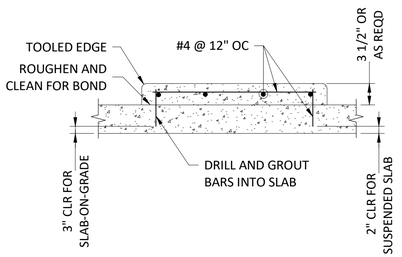
NOTES:
1. CURBS SHALL BE OF EQUAL WIDTH IN THEIR ENTIRE LENGTH.
2. DETAIL ALSO APPLIES TO TOPS OF WALLS REINFORCED WITH ONE CURTAIN OF STEEL.
3. POST INSERTS NOT ALLOWED IN APPLICATIONS SUBJECT TO FREEZING.
4. IN EXIST SLABS, USE #4 @ 12" OC, W/ 4"EMBED. DRILL AND GROUT INTO SLAB.

S180 CONCRETE CURB
SCALE: NTS

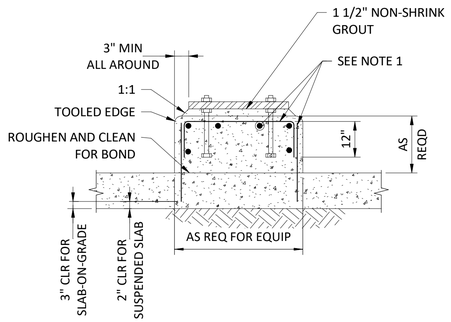


NOTE:
1. USE 2 MATS OF #5 @ 12" OC, EW, EF FOR SLABS 10" AND THICKER.

S190 SLAB-ON-GRADE
SCALE: NTS

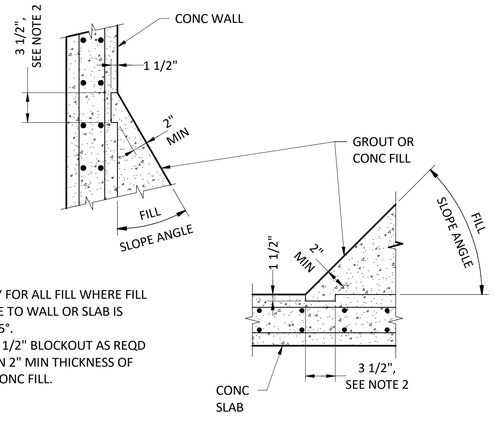


S191 HOUSEKEEPING PAD
SCALE: NTS



NOTE:
1. 5# @ 12" OC OR AS REQD TO DEVELOP ANCHOR BOLTS

S192 EQUIPMENT BASE
SCALE: NTS



NOTE:
1. PROVIDE KEY FOR ALL FILL WHERE FILL SLOPE ANGLE TO WALL OR SLAB IS LESS THAN 45°.
2. LENGTHEN 3 1/2" BLOCKOUT AS REQD TO MAINTAIN 2" MIN THICKNESS OF GROUT OR CONC FILL.

S194 CONCRETE FILL KEY
SCALE: NTS

S310 FRP WEIR
SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

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WARNING
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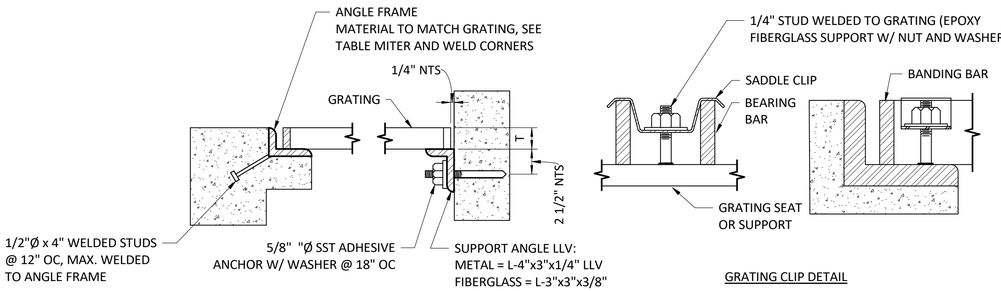
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
STRUCTURAL STANDARD DETAILS 5

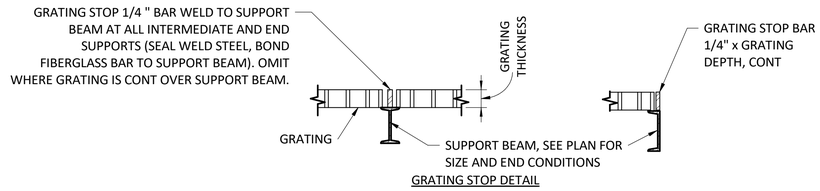
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GRATING CLIP DETAIL



GRATING STOP DETAIL

NOTES:

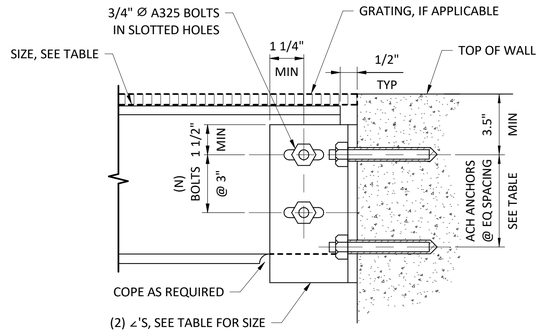
1. UNLESS INDICATED OTHERWISE, GRATING SHALL BE ALUM.
2. GRATING DEPTH TO BE DETERMINED BY MANUFACTURER AND APPROVED BY ENGINEER, UNO.
3. ENDS AND OPENINGS SHALL BE BANDED.
4. WEIGHT OF GRATING SECTION SHALL NOT EXCEED 80 LBS. METAL BEARING BARS SHALL BE DEPTH T x 3/16" @ 1 3/16" OC.. CROSS BARS SHALL BE @ 4" OC.
5. METAL BEARING BARS SHALLK BE DEPTH TX3/16": @ 1 13/16" OC CROSS BARS SHALL BE @ 4" OC.
6. PROVIDE A MINIMUM OF 4 CLIPS PER GRATING PANEL, APPROX 4" FROM PANEL CORNERS MAXIMUM CLIP SPACING AT 36" OC.
7. MATERIALS:
   - A. ALUM GRATING - USE ALUM ANGLE SUPPORTS AND SST BOLTS AND CLIPS. IF SUPPORTED BY STEEL BEAMS, USE STEEL STOP BARS. ALUM IN CONTACT WITH CONC OR STEEL SHALL BE COATED PER THE PROTECTIVE COATING SPECS.
   - B. GALV STEEL GRATING - USE STEEL ANGLE SUPPORTS, BOLTS AND CLIPS. GALV AFTER FABRICATION.
   - C. SST GRATING - USE SST ANGLE SUPPORTS, BOLTS AND CLIPS.
   - D. FIBERGLASS GRATING - USE FIBERGLASS FOR ALL COMPONENTS EXCEPT DRILLED ANCHORS; ALL CUT EDGES SHALL BE SEALED WITH RESIN; BONDING: USE EPOXY ADHESIVE BONDING AGENT.

GRATING FRAME TABLE SIZED TO MATCH GRATING (FOR FIBERGLASS USE CONTINUOUS PROTRUDED FIBERGLASS SEAT & ANCHOR)			
GRATING DEPTH T	STEEL ANGLE	GRATING DEPTH T	STEEL ANGLE
1"	1 3/4 x 1 1/4 x 1/4 (1 1/4 x 1 1/4 1/4)	2"	*2 1/2 x 2 1/2 x 1/2
1 1/4"	2 x 1 1/2 x 1/4 (1 1/2 x 1 1/4 1/4)	2 1/4"	*2 1/2 x 2 1/2 x 1/4
1 1/2"	1 3/4 x 1 3/4 x 1/4	2 1/2"	3 x 3 x 1/2
1 3/4"	2 x 2 x 1/4		

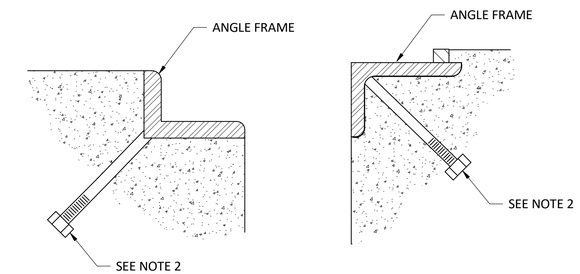
* OR USE 2 1/2"x2 1/2"x1/4"W/1/4" SHIM PLATE WELDED TO BOTTOM

S501 GRATING
SCALE: NTS

BEAM TO CONCRETE CONNECTION SCHEDULE				
SUPPORTED BEAM SIZE	NO OF BOLTS N	PLATE THICKNESS T	WELD SIZE A	COMMENTS
W8 OR C8	2	1/4	3/16	-
W10 OR C10	2	1/4	3/16	-
W12 OR C12	3	1/4	3/16	-
W14 OR C15	3	1/4	3/16	-
W16	4	1/4	3/16	-
W18	4	1/4	3/16	-
W21	5	1/4	3/16	-
W24	6	5/16	1/4	-
W27	7	5/16	1/4	-
W30	8	3/8	5/16	-
W36	2	7/16	3/8	-



S502 BEAM TO CONCRETE CONNECTION
SCALE: NTS



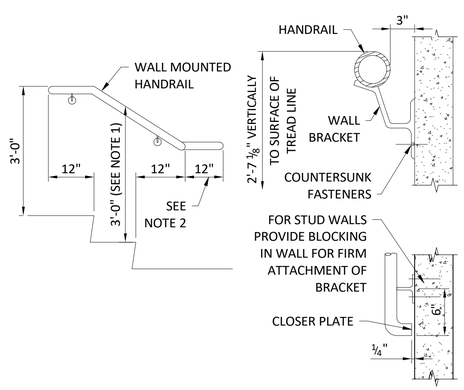
ANGLE FRAME - TYPE I

ANGLE FRAME - TYPE II

NOTES:

1. SEE STANDARD DETAILS S501 AND S502 FOR ANGLE FRAME INFO.
2. NELSON 3/8"DIAX4" LONG HBA ALUMINUM STUD @ 18" MAX, STUD WELDING ASSOCIATES 3/8"DIAX4" LONG-FLANGED CD ALUMINUM STUD (OR EQUAL) @ 18" MAX WELDED TO ANGLE FRAME WITH 3/8-16" ALUMINUM HEX NUT. TACK WELD NUT TO HEADED STUD.
3. USE MIN OF 2 STUDS PER ANGLE FRAME SECTION.
4. ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED PER THE PROTECTIVE COATING SPECIFICATIONS.

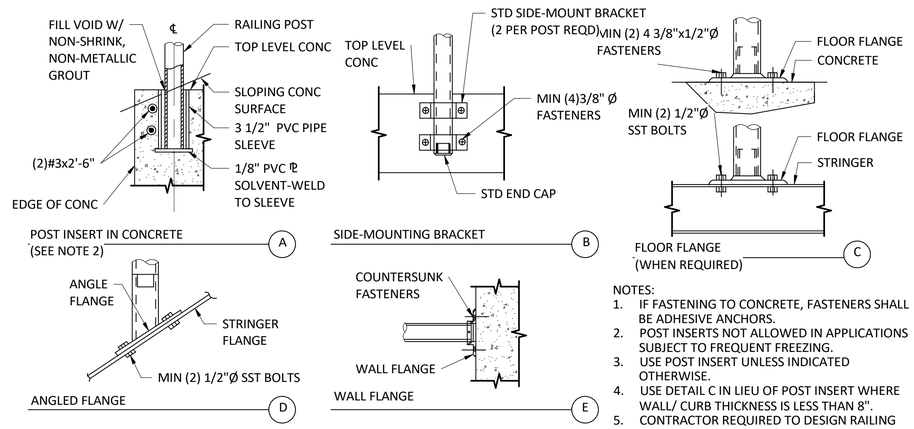
S504 ALUMINUM WELDED STUD
SCALE: NTS



NOTES:

1. VERTICAL DIMENSIONS ARE FROM LEADING EDGE OF TREAD TO TOP OF RAIL (PARALLEL TO STAIR SLOPE)
2. ADDITIONAL 1'-0" HORIZONTAL LENGTH (ONLY REQUIRED AT HANDICAP ACCESSIBLE STAIR).

S509 EQUIPMENT BASE
SCALE: NTS



NOTES:

1. IF FASTENING TO CONCRETE, FASTENERS SHALL BE ADHESIVE ANCHORS.
2. POST INSERTS NOT ALLOWED IN APPLICATIONS SUBJECT TO FREQUENT FREEZING.
3. USE POST INSERT UNLESS INDICATED OTHERWISE.
4. USE DETAIL C IN LIEU OF POST INSERT WHERE WALL/ CURB THICKNESS IS LESS THAN 8".
5. CONTRACTOR REQUIRED TO DESIGN RAILING SYSTEM PER SPECIFICATIONS.

S512 RAILING, GUARDRAIL, AND HANDRAIL SUPPORT
SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

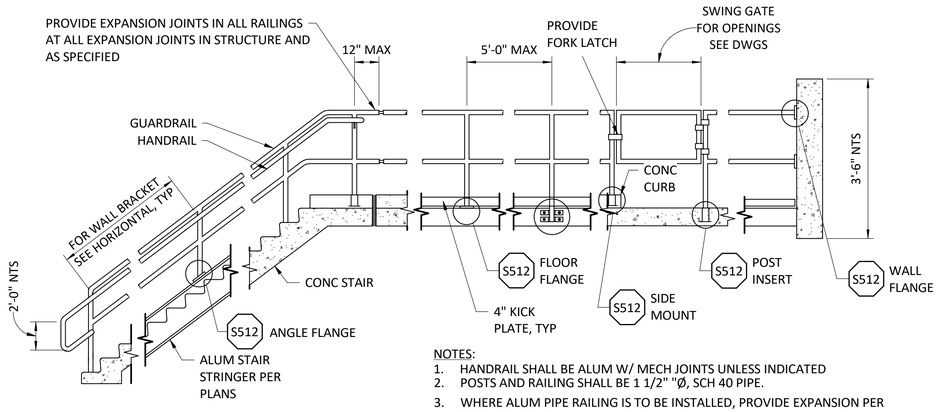
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
STRUCTURAL STANDARD DETAILS 6

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

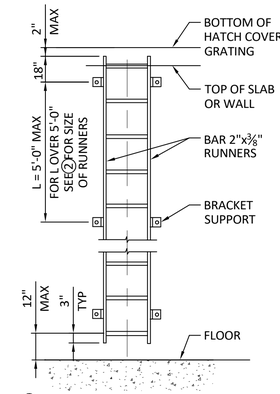
DRAWING
GS-8

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
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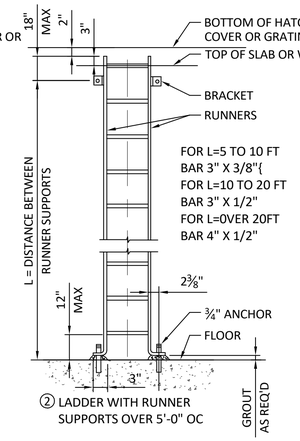


NOTES:
1. HANDRAIL SHALL BE ALUM W/ MECH JOINTS UNLESS INDICATED
2. POSTS AND RAILING SHALL BE 1 1/2" "Ø, SCH 40 PIPE.
3. WHERE ALUM PIPE RAILING IS TO BE INSTALLED, PROVIDE EXPANSION PER SPECIFICATIONS.
4. CONTRACTOR REQD TO DESIGN RAILING SYSTEM PER SPECIFICATIONS.
5. ALL RAILINGS TO HAVE A 4" KICK PLATE UNLESS MOUNTED ON A CURB.

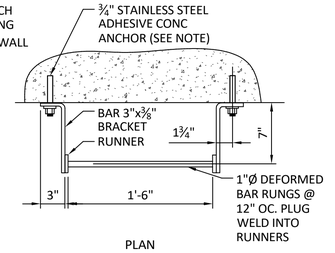
S515 TWO-RAIL RAING
SCALE: NTS



① STANDARD LADDER WITH RUNNER SUPPORTS AT 5'-0" MAX



② LADDER WITH RUNNER SUPPORTS OVER 5'-0" OC

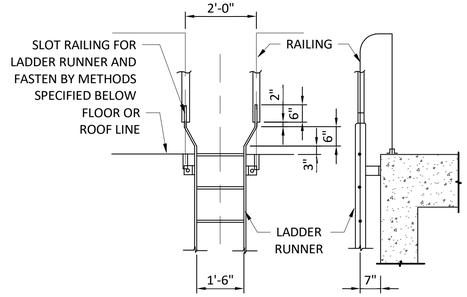


PLAN

NOTES:
1. LADDERS SHALL BE ALUMINUM UNLESS INDICATED OTHERWISE.
2. ANCHORS & FASTENERS SHALL BE STAINLESS STEEL, EXCEPT FOR GALVANIZED STEEL LADDERS SHALL BE GALVANIZED STEEL
3. PROVIDE ANCHOR BOLT INSERTS FOR PRESTRESSED TANK WALLS
4. LADDERS SHALL BE OSHA AND ANSI APPROVED
5. FRP LADDER MEMBERS SHALL BE SIZED BY THE MANUFACTURER PER THE SPECIFICATIONS

FIXED LADDER

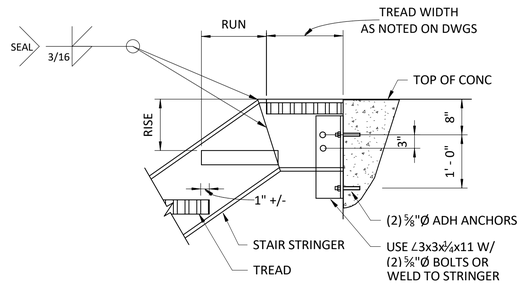
S531 FIXED LADDER
SCALE: NTS



CONNECTIONS:

1. STL TO STL OR ALUM TO ALUM:
   WELDED CONNECTION, GRIND SMOOTH
2. STL TO ALUM:
   DRILL HOLE THRU LADDER RUNNER AND RAILING FOR SMOOTH. PIN SHALL BE THE SAME MATL AS RAILING.

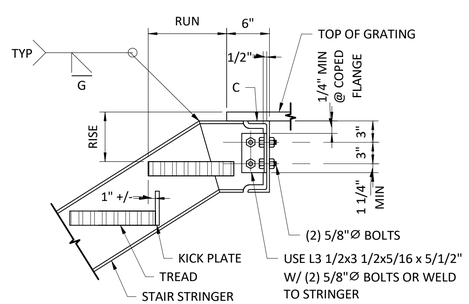
S534 LADDER TO RAILING CONNECTIONS
SCALE: NTS



NOTE:

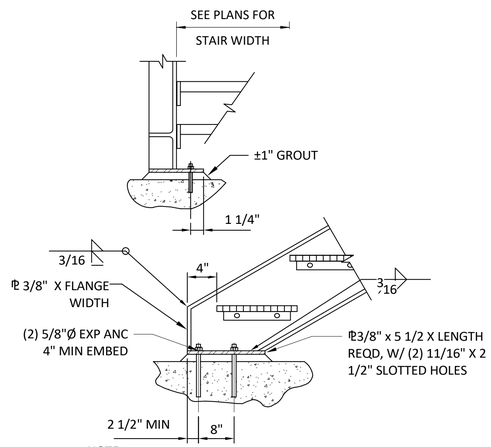
1. HANDRAIL NOT SHOWN.

S541 STAIR TOP CONNECTION TO CONCRETE
SCALE: NTS



NOTES:
1. FOR CHANNEL SIZES, SEE PLAN.
2. HANDRAIL NOT SHOWN.
3. COPE STRINGER MIN AS REQD.

S542 STAIR TOP TO CHANNEL CONNECTION
SCALE: NTS



NOTE:
1. PLATE MATERIALS SHALL MATCH STRINGER MATERIAL.
2. PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE AS SPECIFIED.
3. STAIR HANDRAIL NOT SHOWN.
4. ANCHOR MATERIAL SHALL BE _____.

S545 STAIR BOTTOM TO CONCRETE CONNECTION
SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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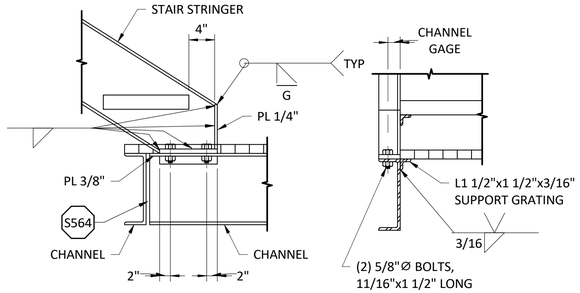
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
STRUCTURAL STANDARD DETAILS 7

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
GS-9

Exhibit E.1 Page 47 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
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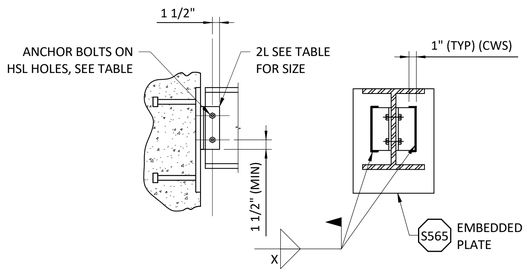


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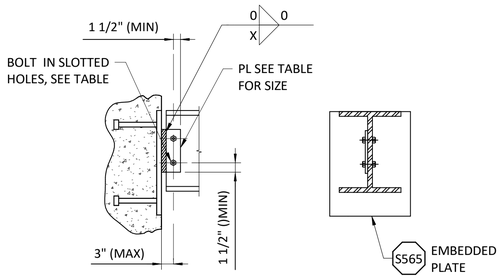
1. FOR CHANNEL SIZES, SEE PLAN.
2. HANDRAIL NOT SHOWN.
3. USE PLATES OF SAME MTL AS STRINGER.
4. CHANNEL CONN NOT SHOWN FOR CLARITY.

S546 STAIR BOTTOM TO CHANNEL CONNECTION

SCALE: NTS



TYPE A CONNECTION

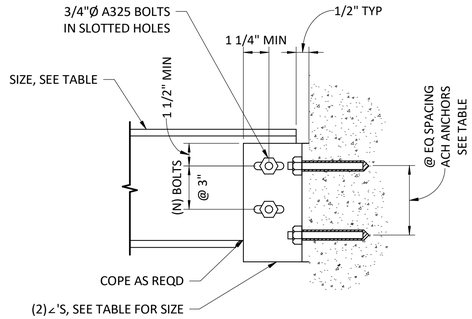


TYPE B CONNECTION

CONNECTION SCHEDULE						
BEAM SIZE	ANGLE OR PLATE SIZE	CONN TYPE	# OF BOLTS	BOLT SPACING	EMBEDDED PLATE TYPE	WELD SIZE X
L6	PL 1/4" X 5"	B	1	3"	D	3/16"
W8 PR C8	PL 1/4" X 4"	B	2	3"	A	3/16"
W10 OR C10	PL 1/4" X 4"	B	2	3"	A	3/16"
W12	PL 1/4" X 4"	B	3	3"	A	3/16"
W14	L4 X 3" X 1/4"	A	3	3"	A	3/16"
W16	L4 X 3" X 1/4"	A	4	3"	B	3/16"
W18	L4 X 3" X 5/16"	A	4	3"	B	3/16"
W21	L4 X 3" X 3/8"	A	5	3"	C	3/16"

S560 BEAM TO CONCRETE CONNECTION

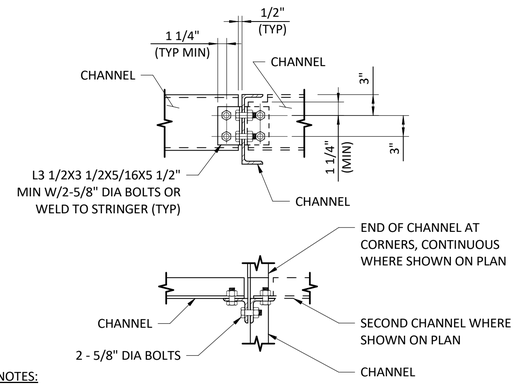
SCALE: NTS



BEAM TO CONC CONNECTION SCHEDULE			
BEAM SIZE	DOUBLE ANGLE SIZE	# OF BOLTS N	ADHESIVE ANCHORS NUMBER AND SIZE

S563 BEAM TO CONCRETE CONNECTION

SCALE: NTS

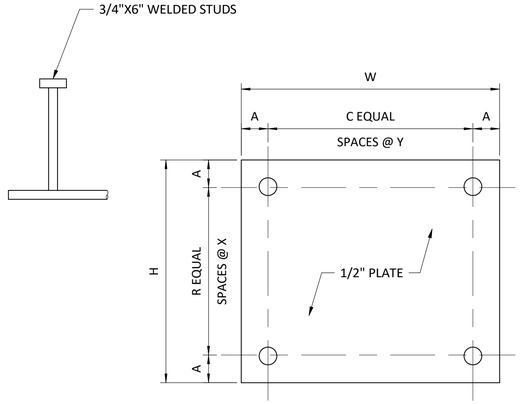


NOTES:

1. FOR CHANNEL SIZES SEE PLAN.
2. COPE STRINGER MINIMUM AS NEEDED.
3. STANDARD SIZE HOLES UNLESS NOTED OTHERWISE

S564 BEAM TO BEAM CONNECTION

SCALE: NTS



EMBEDDED PLATE SCHEDULE								
PLATE SIZE	H	W	A	R ROWS	X	C COLUMNS	Y	TOTAL # OF STUDS EA PLATE
A	12"	10"	2"	2	8"	2	6"	4
B	20"	12"	2"	2	8"	2	8"	6
C	24"	14"	2"	2	10"	2	10"	6
D	12"	10"	2"	2	8"	2	6"	4
E	10"	10"	2"	2	6"	2	6"	4
F	14"	12"	2"	2	10"	2	8"	4
G	12"	12"	2"	2	8"	2	8"	4
H								

S565 EMBEDDED PLATE

SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

STRUCTURAL STANDARD DETAILS 8

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING

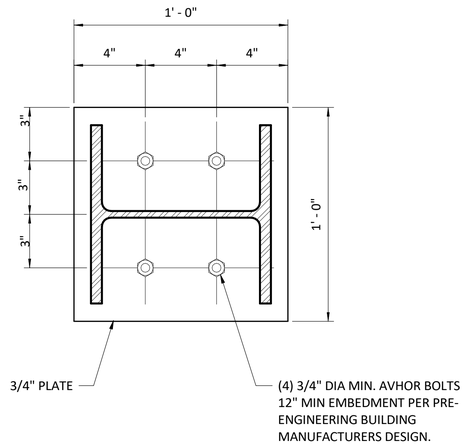
GS-10

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Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
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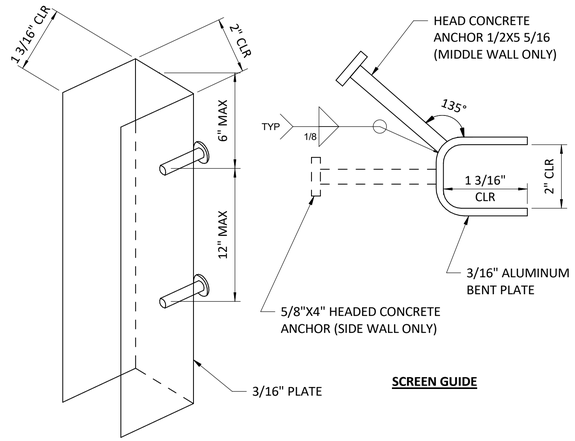
NOTE:

1. PROVIDE 1 1/2" GROUT UNDERNEATH BASE PLATE

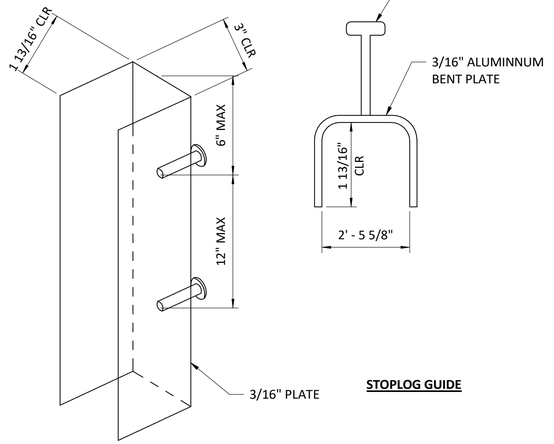


S902 COLUMN BASE

SCALE: NTS



SCREEN GUIDE



STOPLOG GUIDE

S900 RACEWAY SCREEN AND STOPLOG GUIDES

SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

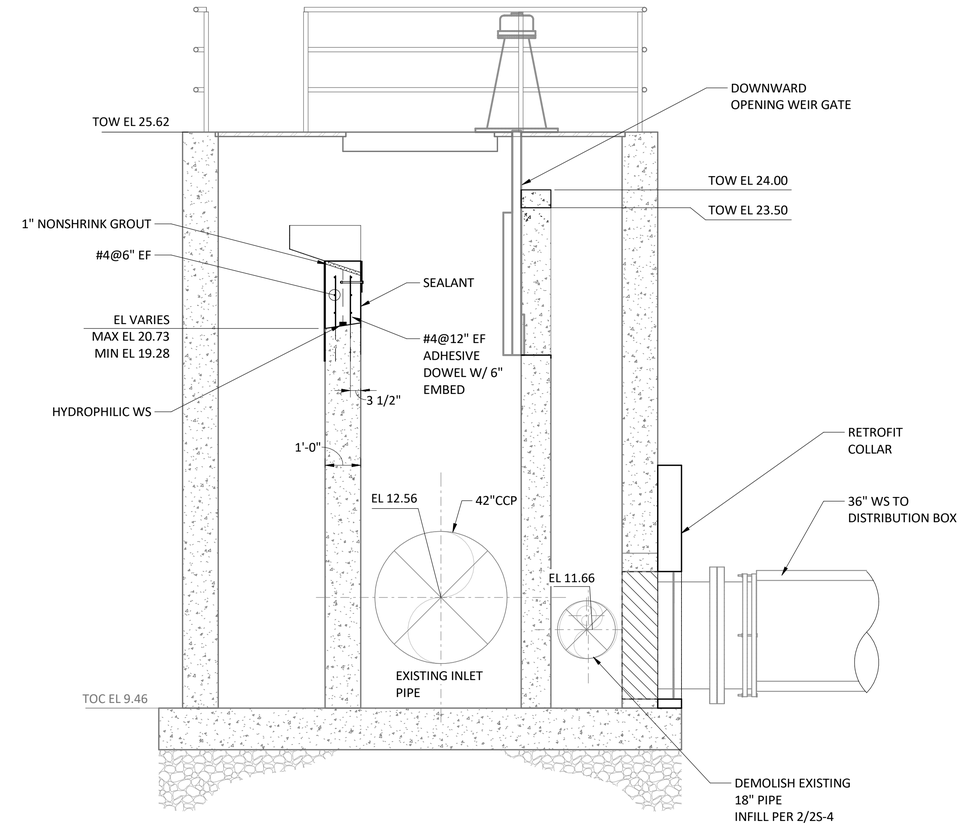
STRUCTURAL STANDARD DETAILS 9

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

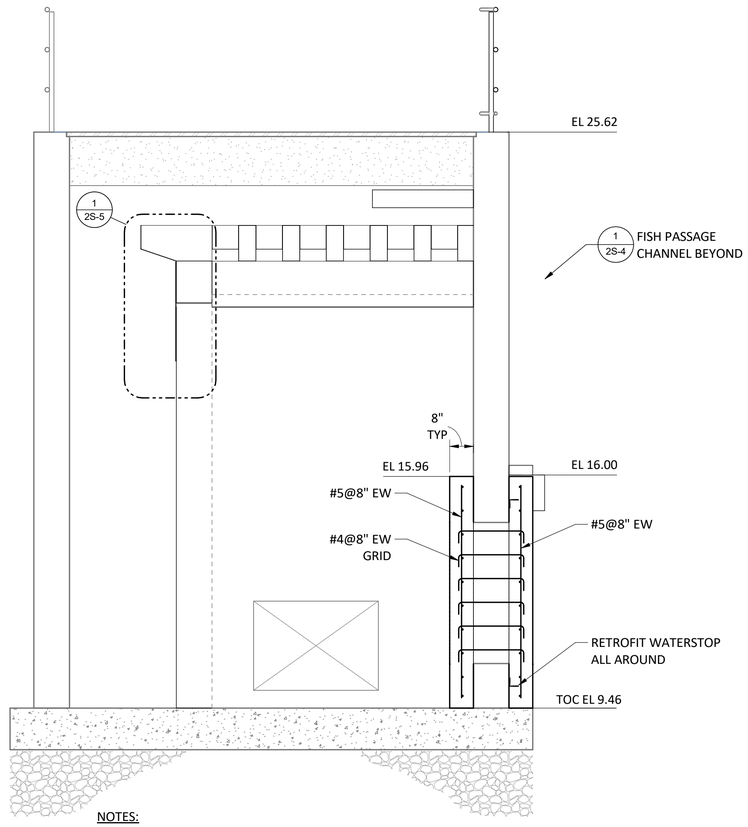
DRAWING

GS-11

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
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A 2S-1 SECTION
SCALE: 1/2" = 1'-0"



NOTES:

1. REMOVE ALL LOOSE OR DETERIORATED CONCRETE.
2. ROUGHEN EXISTING CONCRETE SURFACES TO 1/4" AMPLITUDE EXCEPT AT CONNECTION TO WATERSTOP CLEAN AND LEAVE SMOOTH.

B 2S-1 SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING
0 1/2 1
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
FLOW SPLITTING BOX MODIFICATIONS SECTIONS 1

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

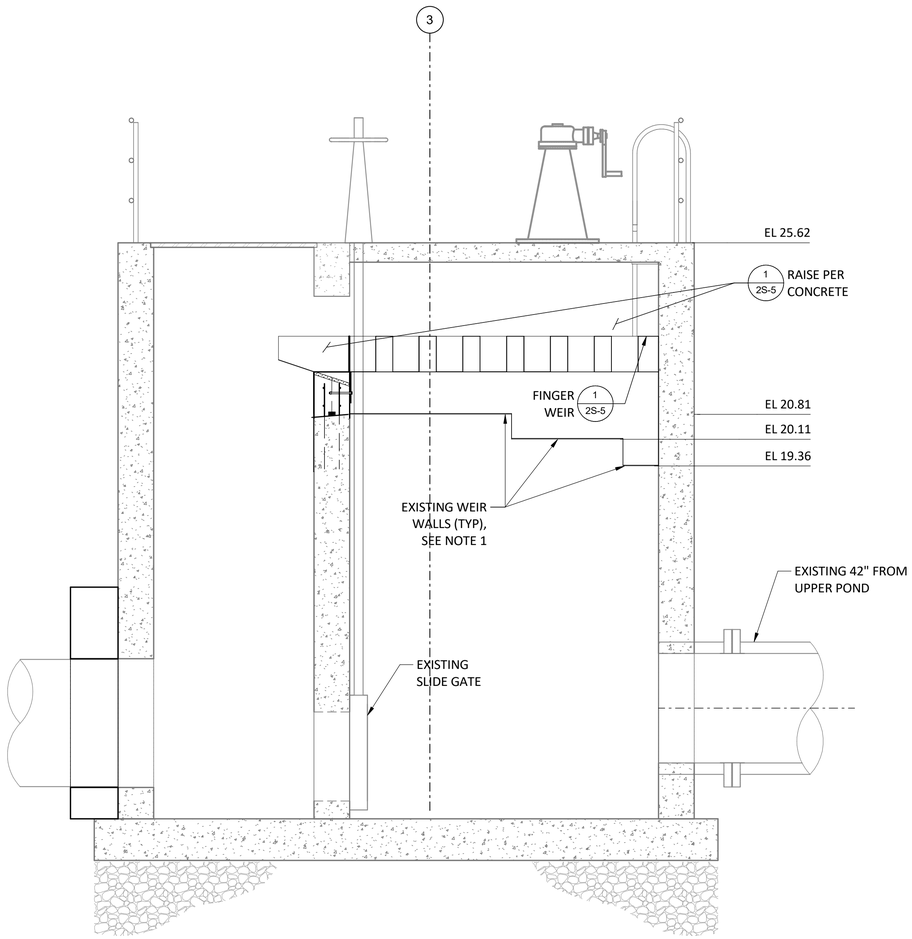
DRAWING
2S-2

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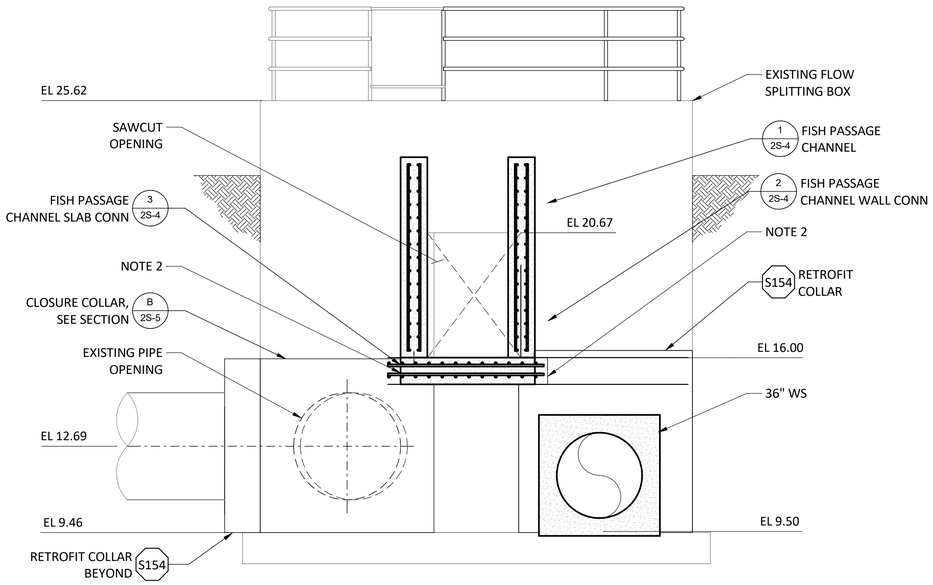
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026862s-md.rvt

GENERAL SHEET NOTE

1. REMOVE ALL EXISTING WEIR PLATES.
2. NOTCH CLOSURE COLLAR AND RETROFIT PIPE COLLAR TO ACCOMODATE FISH PASSAGE CHANNEL



C 2S-1 SECTION
SCALE: 1/2" = 1'-0"



1 2S-1 EAST WALL ELEVATION
SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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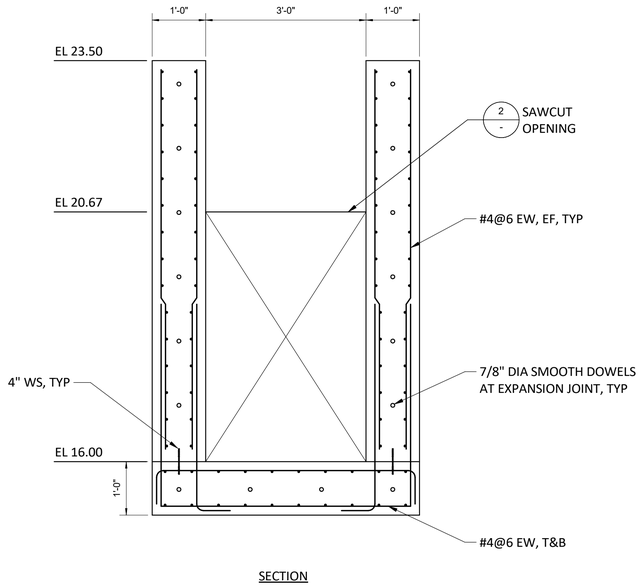
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
FLOW SPLITTING BOX MODIFICATIONS
SECTION AND ELEVATION

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
2S-3

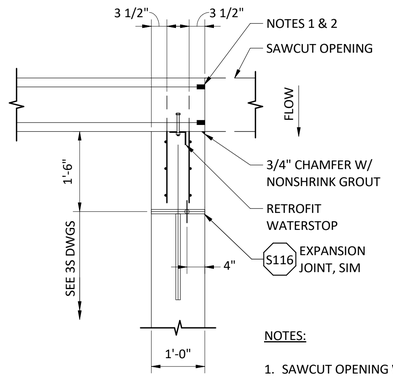
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268623s-md.rvt



SECTION

1 FISH PASSAGE CHANNEL DETAIL

SCALE: 3/4" = 1'-0"



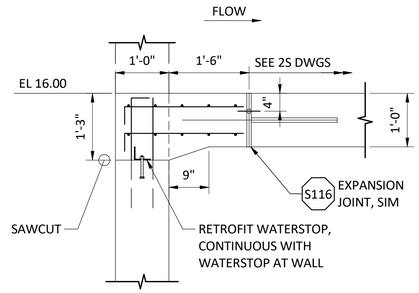
PLAN SECTION

NOTES:

1. SAWCUT OPENING WITHOUT OVERCUTTING CORNERS.
2. BURN BACK EXISTING REINFORCEMENT A MINIMUM OF 1.5" AND REPAIR WITH EPOXY OR NONSHRINK GROUT.

2 FISH PASSAGE CHANNEL WALL CONN DETAIL

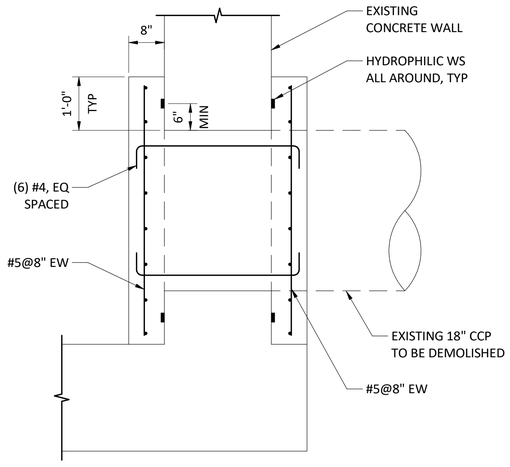
SCALE: 3/4" = 1'-0"



SECTION

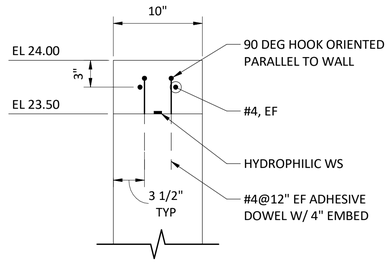
3 FISH PASSAGE CHANNEL SLAB CONN DETAIL

SCALE: 3/4" = 1'-0"



4 EXISTING 18" CCP CLOSURE

SCALE: 3/4" = 1'-0"



SECTION

5 WALL EXTENSION DETAIL

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

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FLOW SPLITTING BOX MODIFICATIONS DETAILS 1

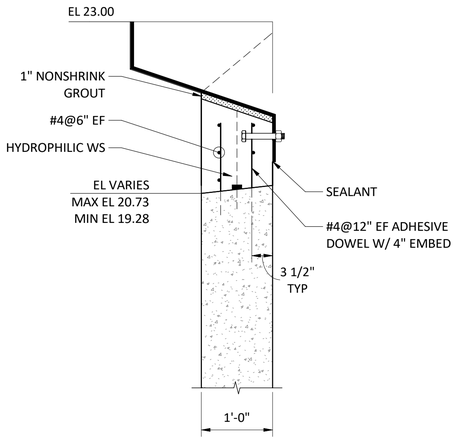
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING

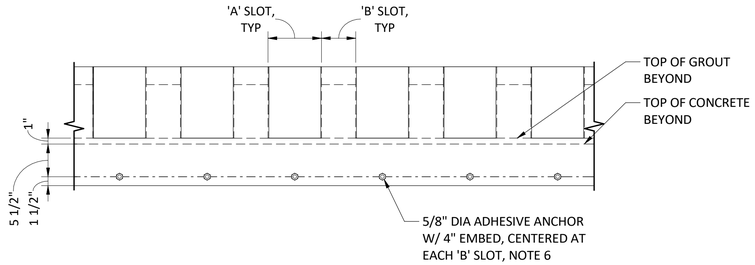
2S-4

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Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268625-md.rvt



SECTION



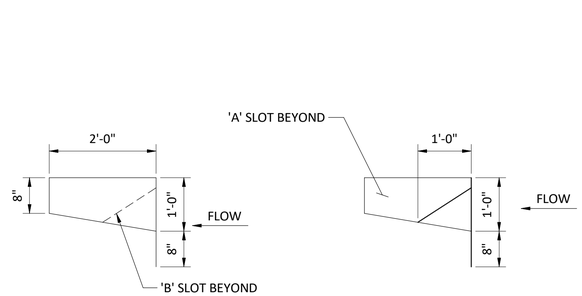
INSIDE ELEVATION

GENERAL SHEET NOTE

1. FINGER WEIR ASSEMBLY SHALL BE FABRICATED ENTIRELY FROM TYPE 304 STAINLESS STEEL.
2. ROUND ALL EDGES TO 1/16". REMOVE ANY BURRS AND IRREGULARITIES.
3. FABRICATE JOINTS AND CORNERS OF THE FINGER WEIR ASSEMBLY USING ONE OF THE FOLLOWING OPTIONS:
   A. OPTION 1: BEND PLATE AT INSIDE RADIUS EQUAL TO THE PLATE THICKNESS.
   B. OPTION 2: SEAL WELD USING WELDS WITH AN EFFECTIVE THICKNESS EQUAL TO THICKNESS OF THE PLATE.
4. FIELD WELDS MAY BE INCORPORATED INTO THE FABRICATION AND INSTALLATION AS REQUIRED.
5. FINAL INSTALLATION MUST PROVIDE SEALED AND WATERTIGHT CONNECTION BETWEEN THE WEIR AND EXISTING WALLS.
6. INSTALL VINYL CAP ON EXPOSED THREADS OF ANCHOR BOLTS.

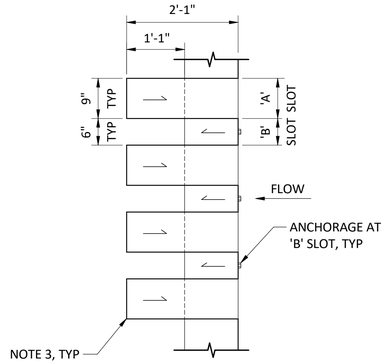
1 / 2S-2 FINGER WEIR ASSEMBLY INSTALLATION DETAIL

SCALE: 1" = 1'-0"



'A' SLOT SECTION

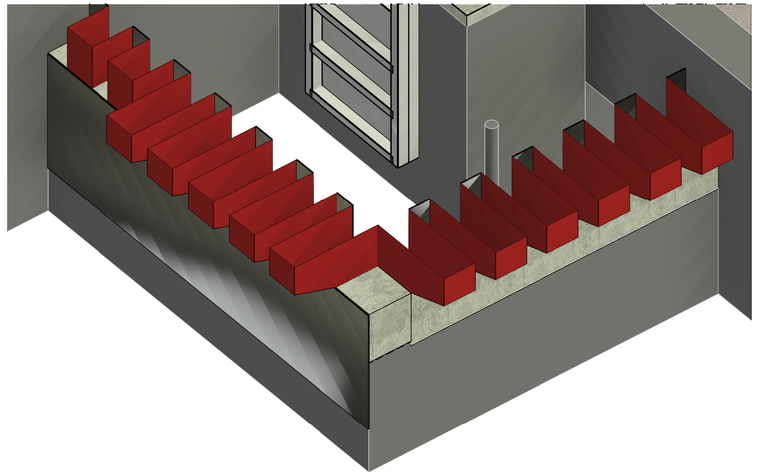
'B' SLOT SECTION



PLAN

2 FINGER WEIR FABRICATION DETAIL

SCALE: 3/4" = 1'-0"



ISOMETRIC VIEW OF FINGER WEIR

SCALE:

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FLOW SPLITTING BOX MODIFICATIONS DETAILS 2

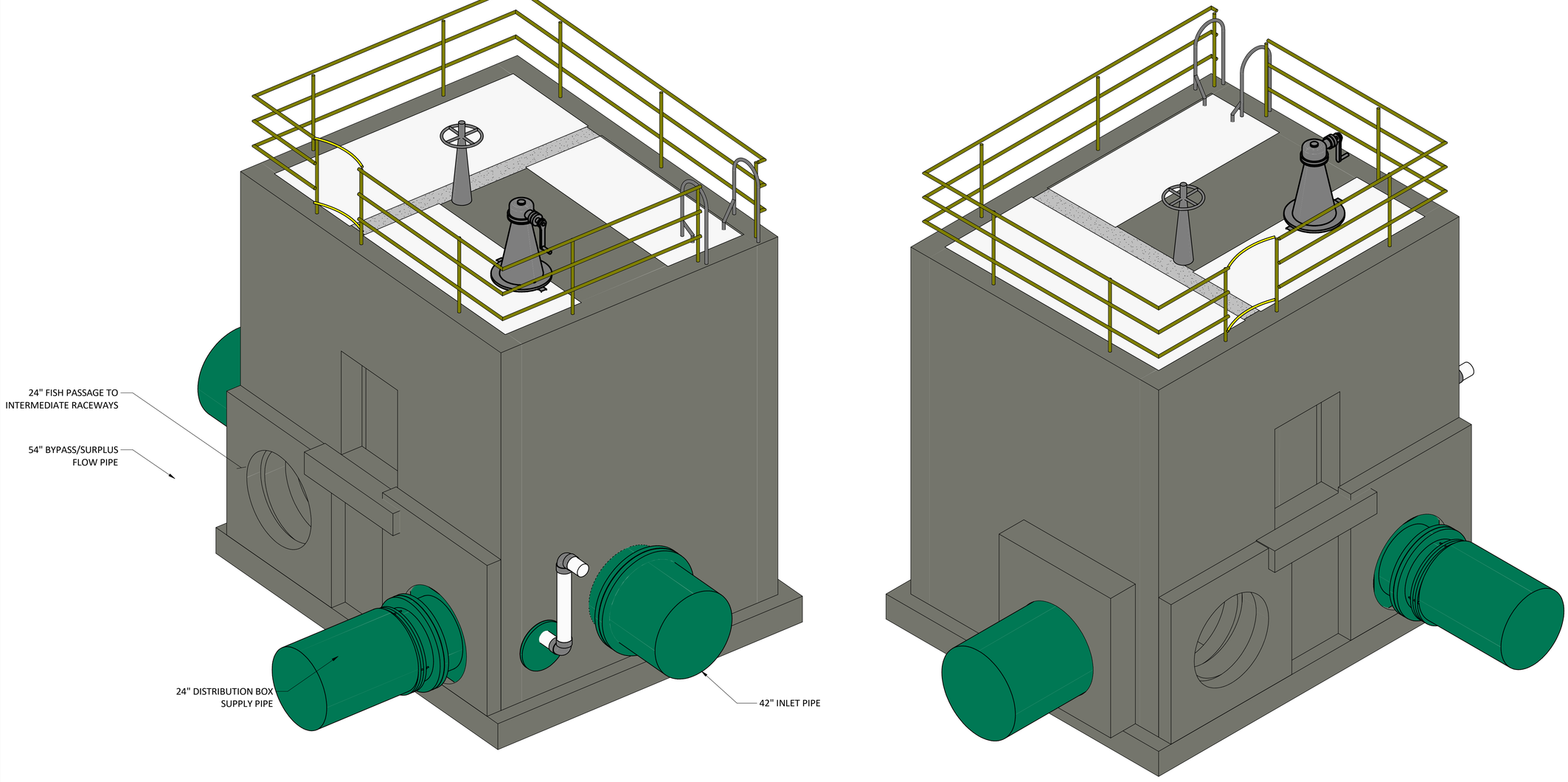
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
2S-5

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268623s-md.rvt

ISOMETRIC VIEW SOUTHWEST

SCALE:



ISOMETRIC VIEW SOUTHEAST

SCALE:

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

ISOMETRIC VIEW 1

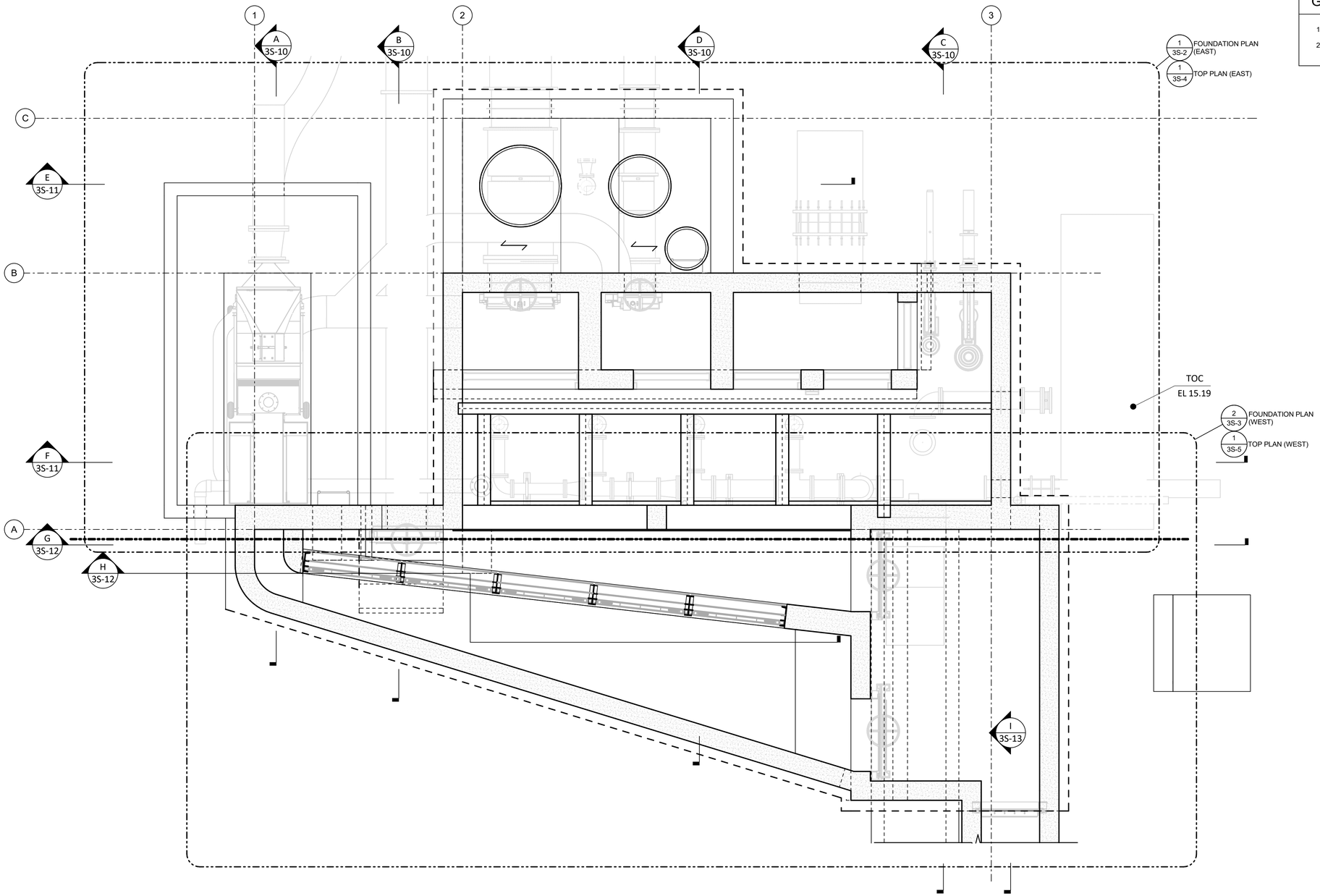
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
2S-6

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268625-md.rvt

GENERAL SHEET NOTES

1. SEE 1C-1 DRAWING FOR THE LOCATION OF DISTRIBUTION BOX AND FLOW METER VAULT
2. SEE 3M SET DRAWINGS FOR PIPE ARRANGEMENT



KEY PLAN

SCALE: 3/8" = 1'-0"

0 2' 4'

N

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

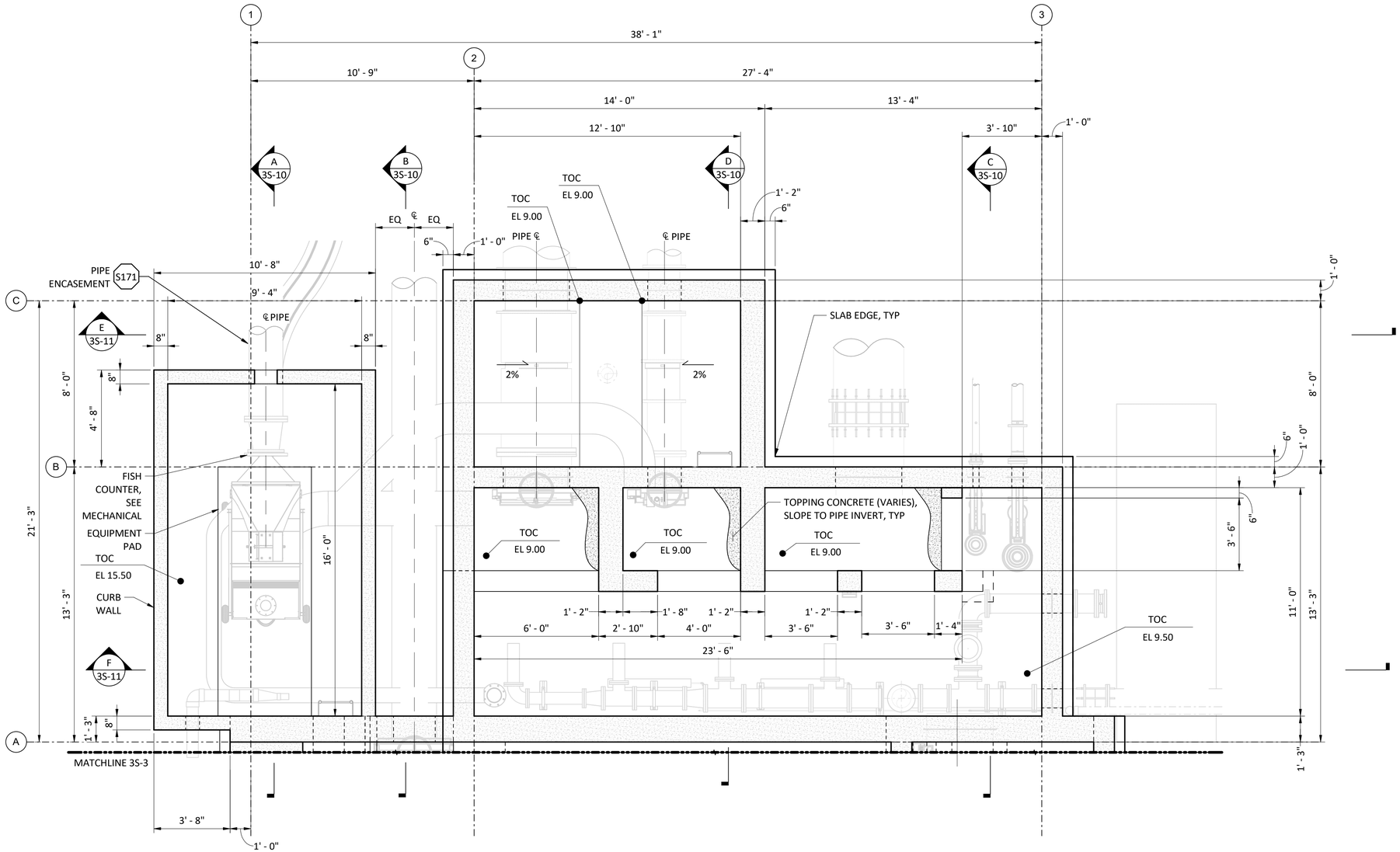
DISTRIBUTION BOX
AND FLOW METER
VAULT KEY PLAN

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING
3S-1

Exhibit E.1 Page 55 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863s-mdrev.rvt



PARTIAL FOUNDATION PLAN (EAST)

SCALE: 3/8" = 1'-0"

0 2' 4'

N

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

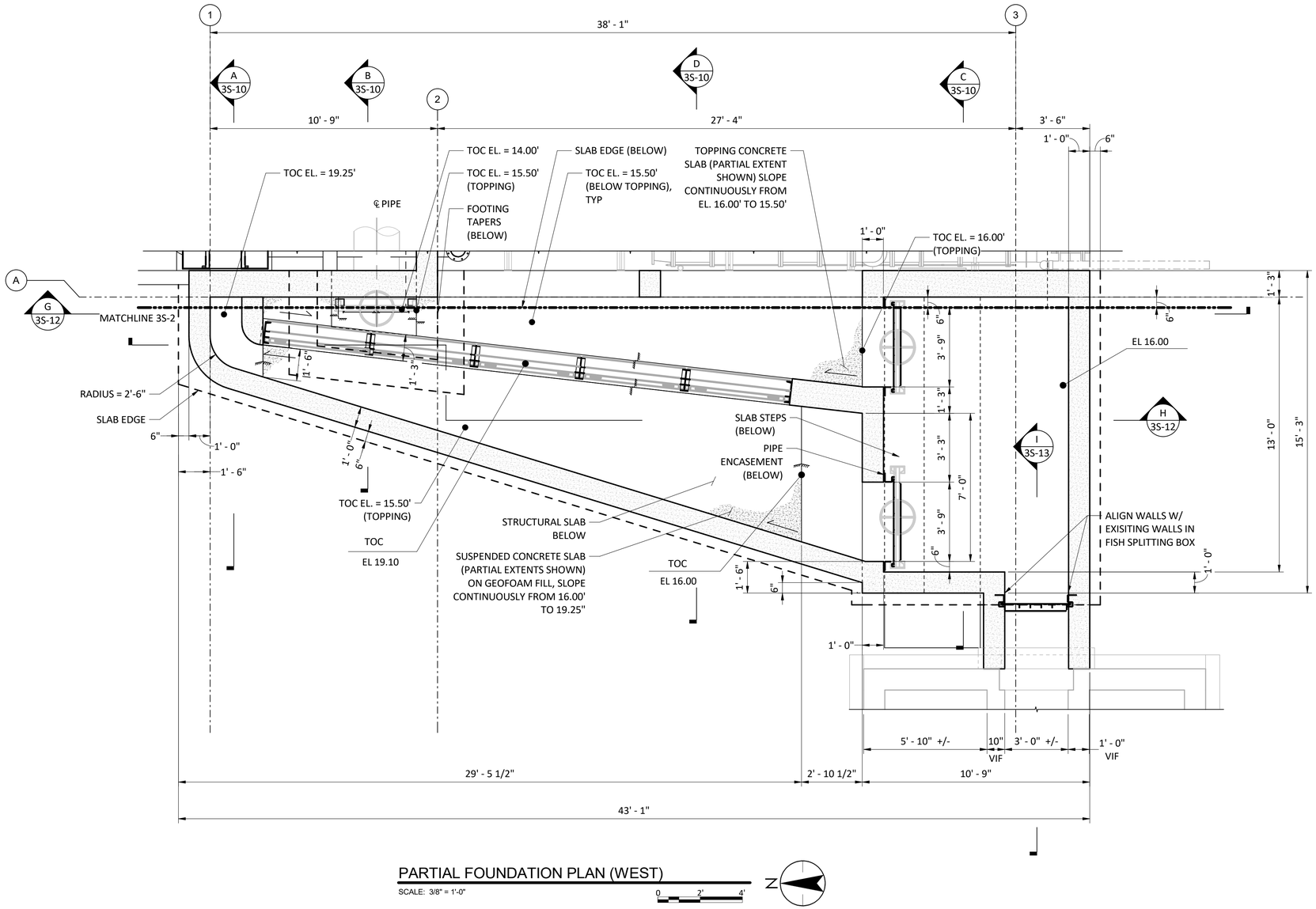
DISTRIBUTION BOX AND FLOW METER PARTIAL FOUNDATION PLAN (EAST)

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING 3S-2

Exhibit E.1 Page 56 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0265863s-mdrev.rvt



PARTIAL FOUNDATION PLAN (WEST)

SCALE: 3/8" = 1'-0"

0 2' 4'

N

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

DISTRIBUTION BOX AND FLOW METER PARTIAL FOUNDATION PLAN (WEST)

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

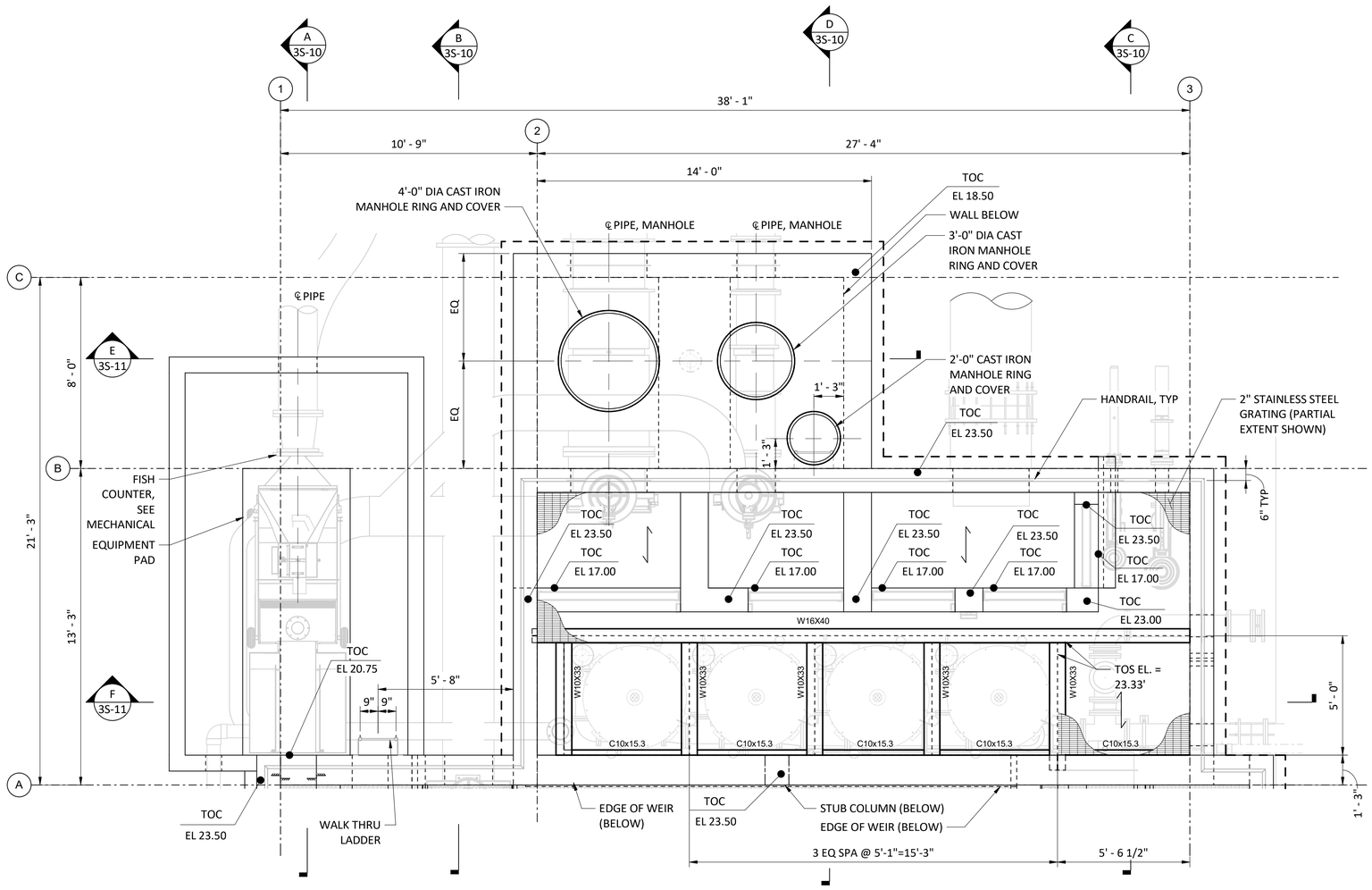
DRAWING 3S-3

Exhibit E.1 Page 57 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268663s-mdrev.rvt

GENERAL SHEET NOTES

1. FLOW METER VAULT LID SHALL BE INSTALLED 1/2" ABOVE SURROUNDING GRADE.



PARTIAL TOP PLAN (EAST)

SCALE: 3/8" = 1'-0"

0 2' 4'

N

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

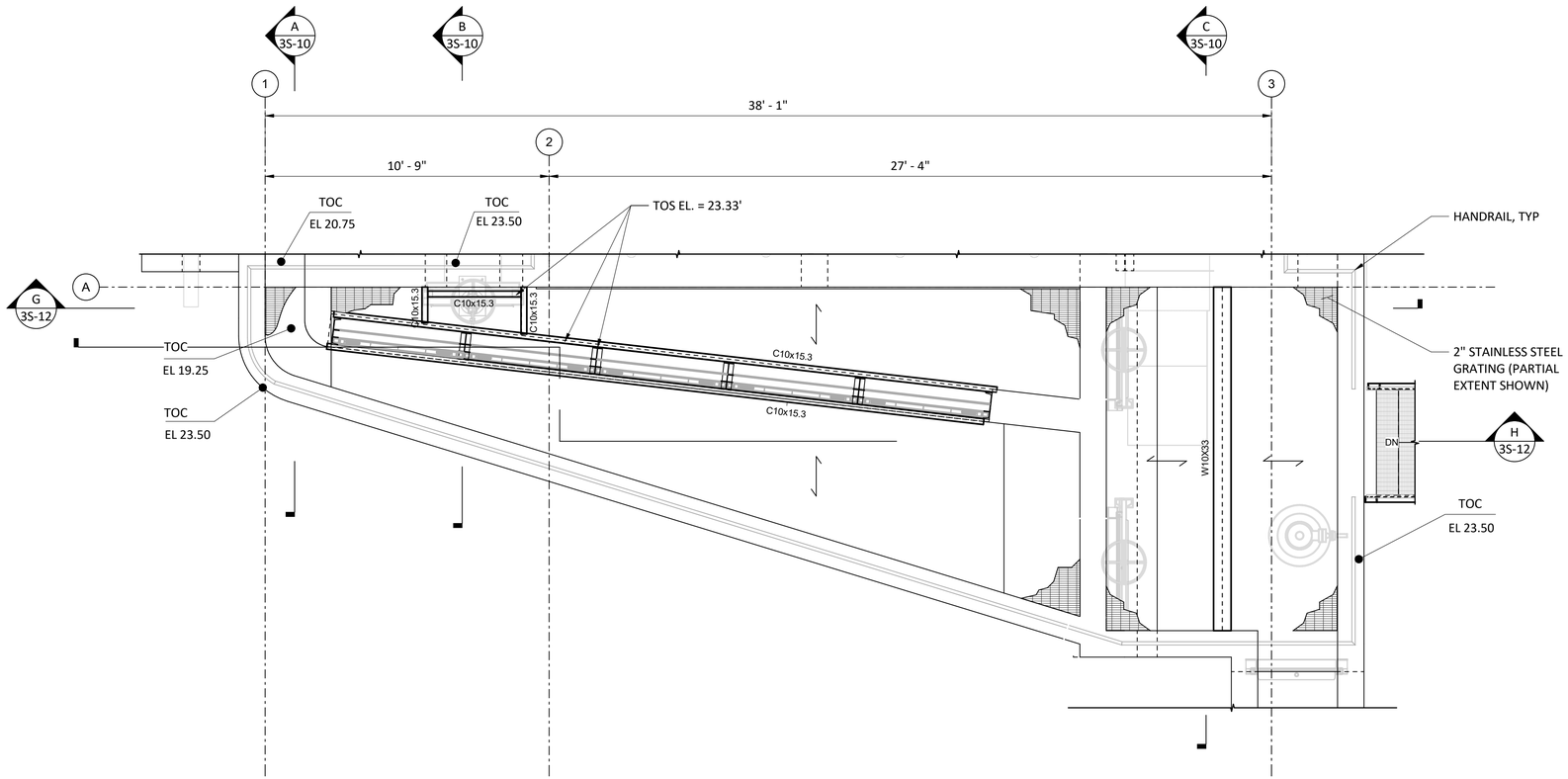
DISTRIBUTION BOX AND FLOW METER PARTIAL TOP PLAN (EAST)

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING 3S-4

Exhibit E.1 Page 58 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863s-mdrev.rvt



PARTIAL TOP PLAN (WEST)

SCALE: 3/8" = 1'-0"

0 2' 4'

N

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

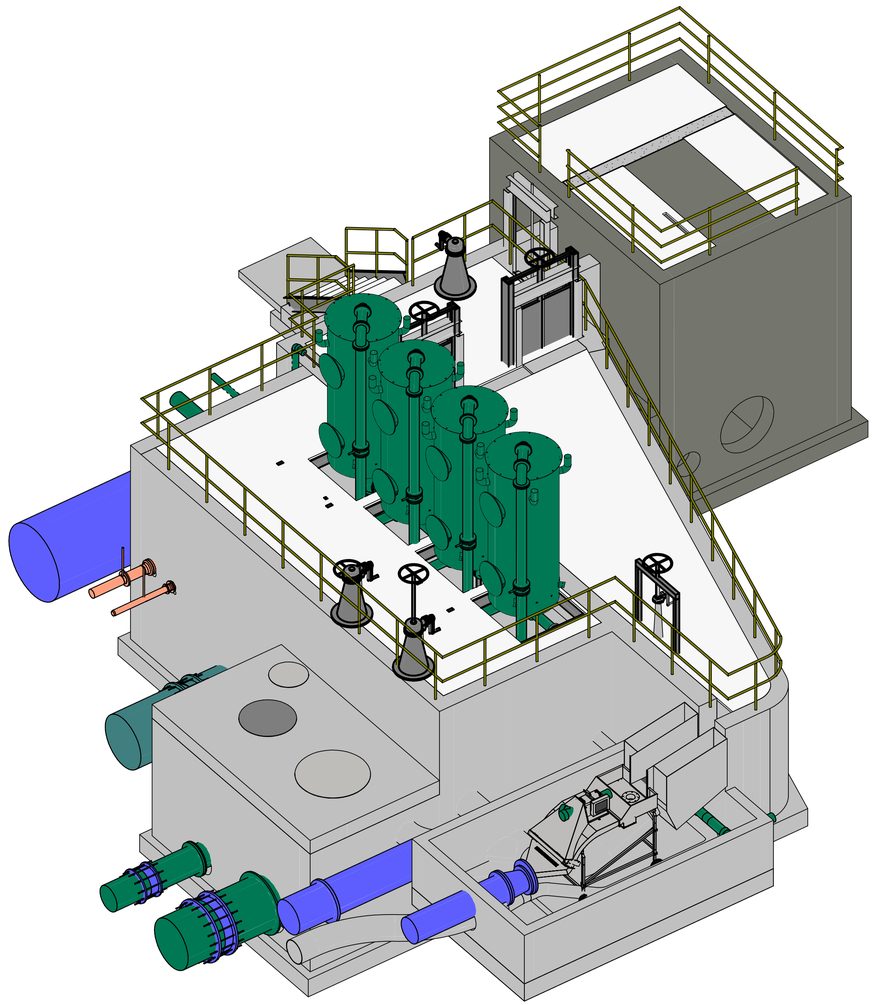
DISTRIBUTION BOX AND
FLOW METER PARTIAL
TOP PLAN (WEST)

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING
3S-5

Exhibit E.1 Page 59 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863s-mdrev.rvt



1 ISOMETRIC VIEW
SCALE:

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

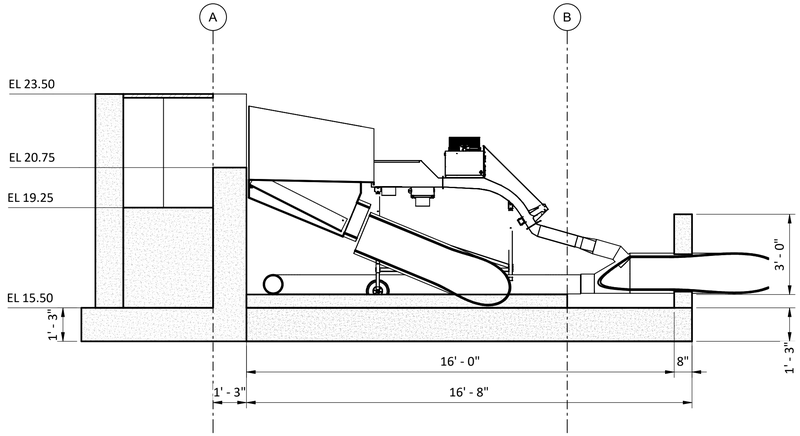
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

ISOMETRIC VIEW

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING
3S-9

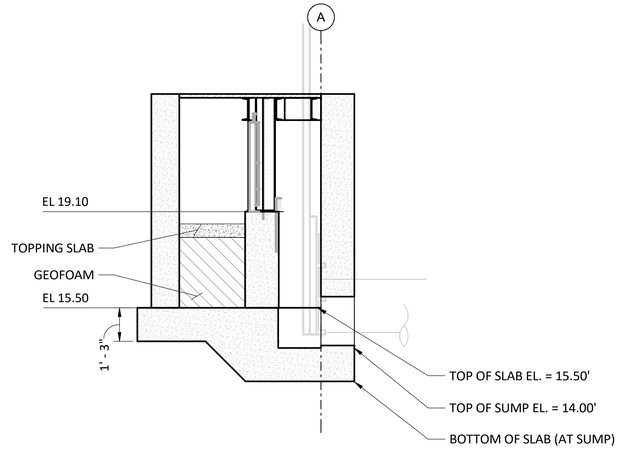
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268635-mdrev.rvt



A 3S-1 SECTION

SCALE: 3/8" = 1'-0"

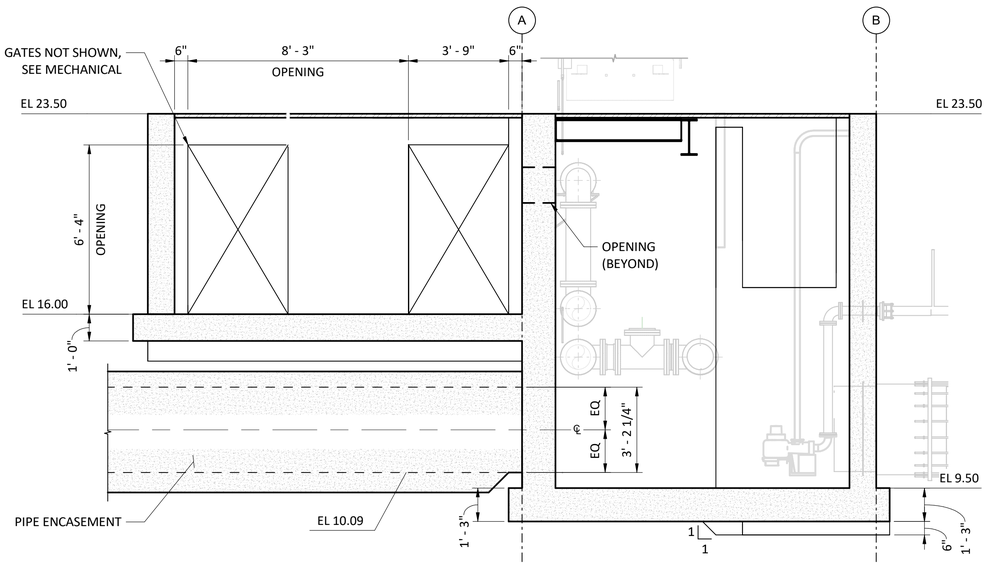
0 2' 4'



B 3S-1 SECTION

SCALE: 3/8" = 1'-0"

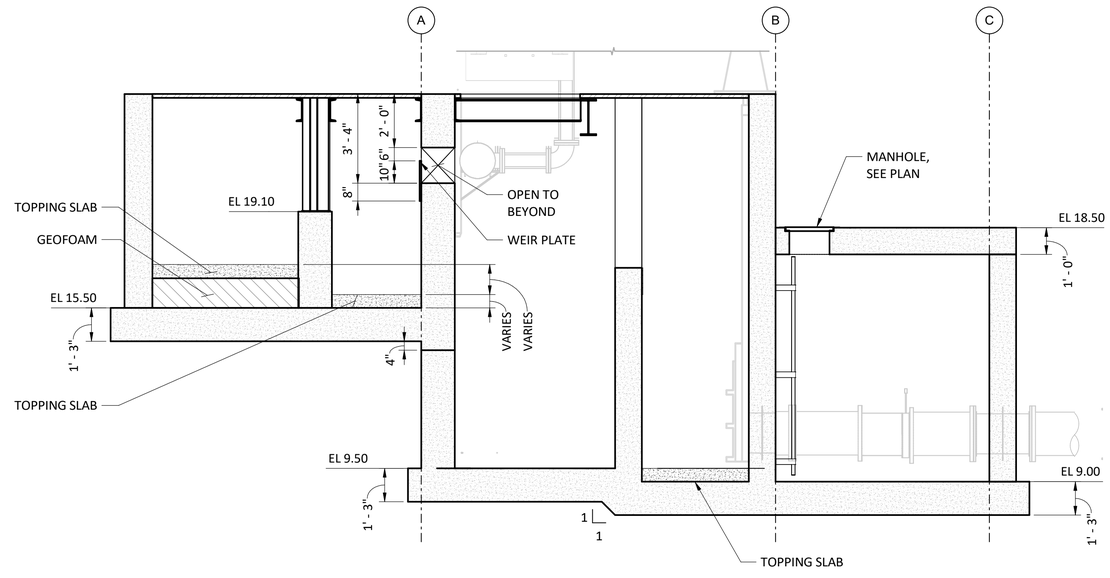
0 2' 4'



C 3S-1 SECTION

SCALE: 3/8" = 1'-0"

0 2' 4'



D 3S-1 SECTION

SCALE: 3/8" = 1'-0"

0 2' 4'

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

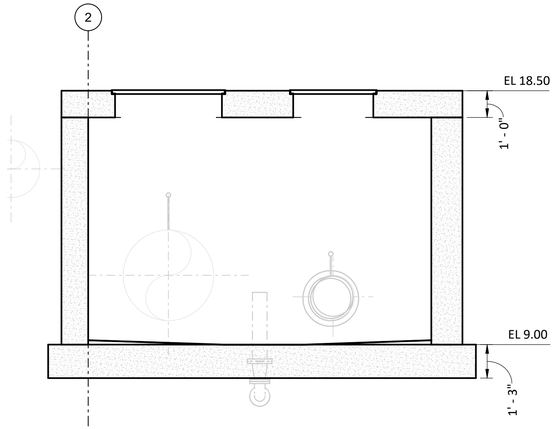
DISTRIBUTION BOX
AND FLOW METER
E/W SECTIONS 1

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING
3S-10

Exhibit E.1 Page 61 of 161

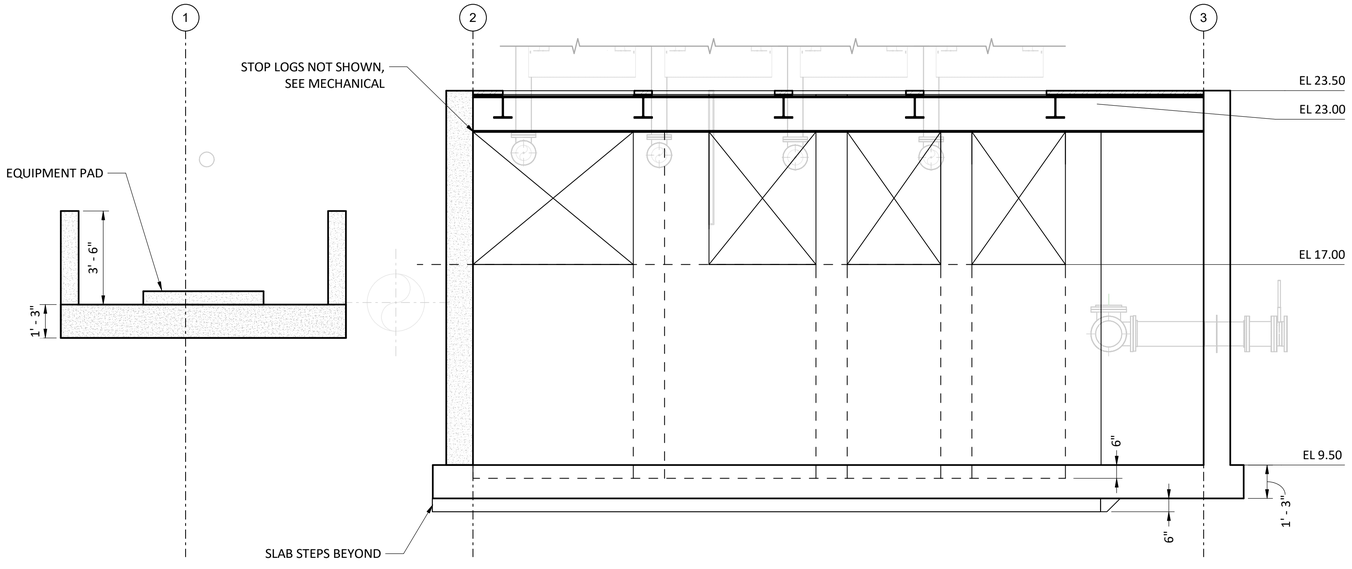
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863s-mdrev.rvt



E / 3S-1 SECTION

SCALE: 3/8" = 1'-0"

0 2' 4'



F / 3S-1 SECTION

SCALE: 3/8" = 1'-0"

0 2' 4'

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

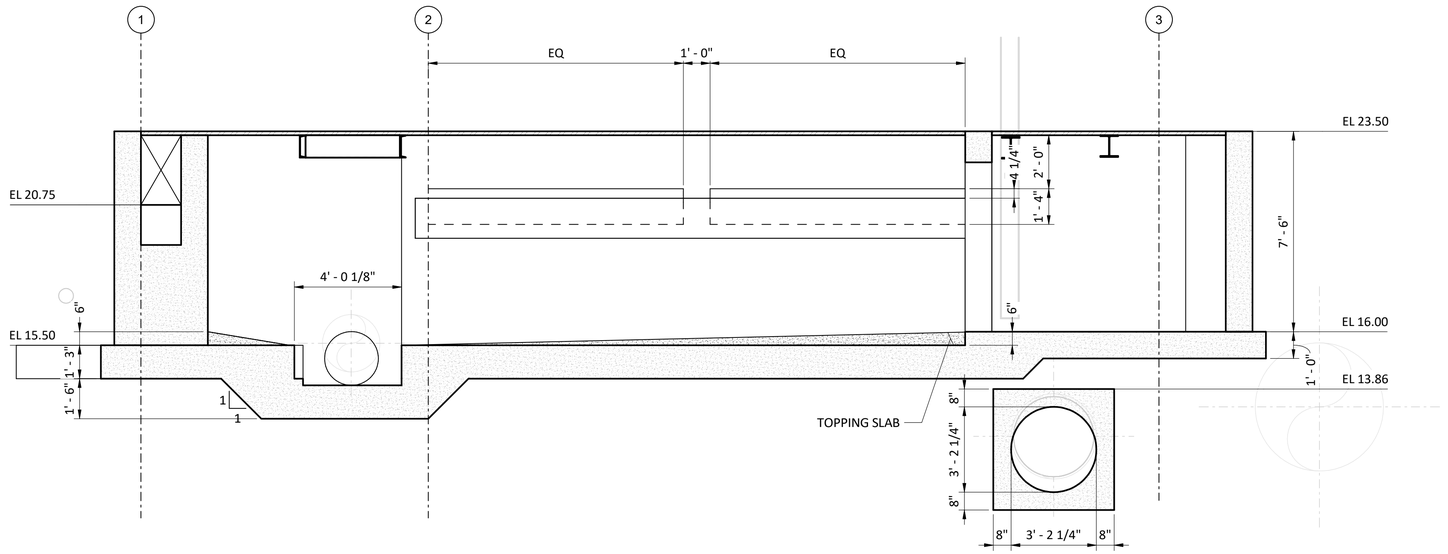
DISTRIBUTION BOX
AND FLOW METER
N/S SECTIONS - 1

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING
3S-11

Exhibit E.1 Page 62 of 161

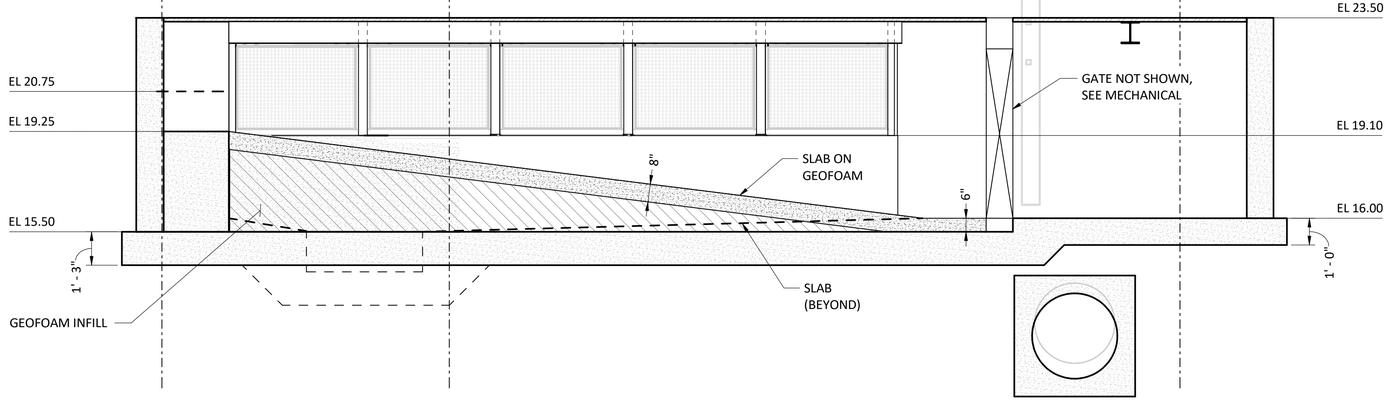
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268633-mdrev.rvt



G / 3S-1 SECTION

SCALE: 3/8" = 1'-0"

0 2' 4'



H / 3S-1 SECTION

SCALE: 3/8" = 1'-0"

0 2' 4'

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

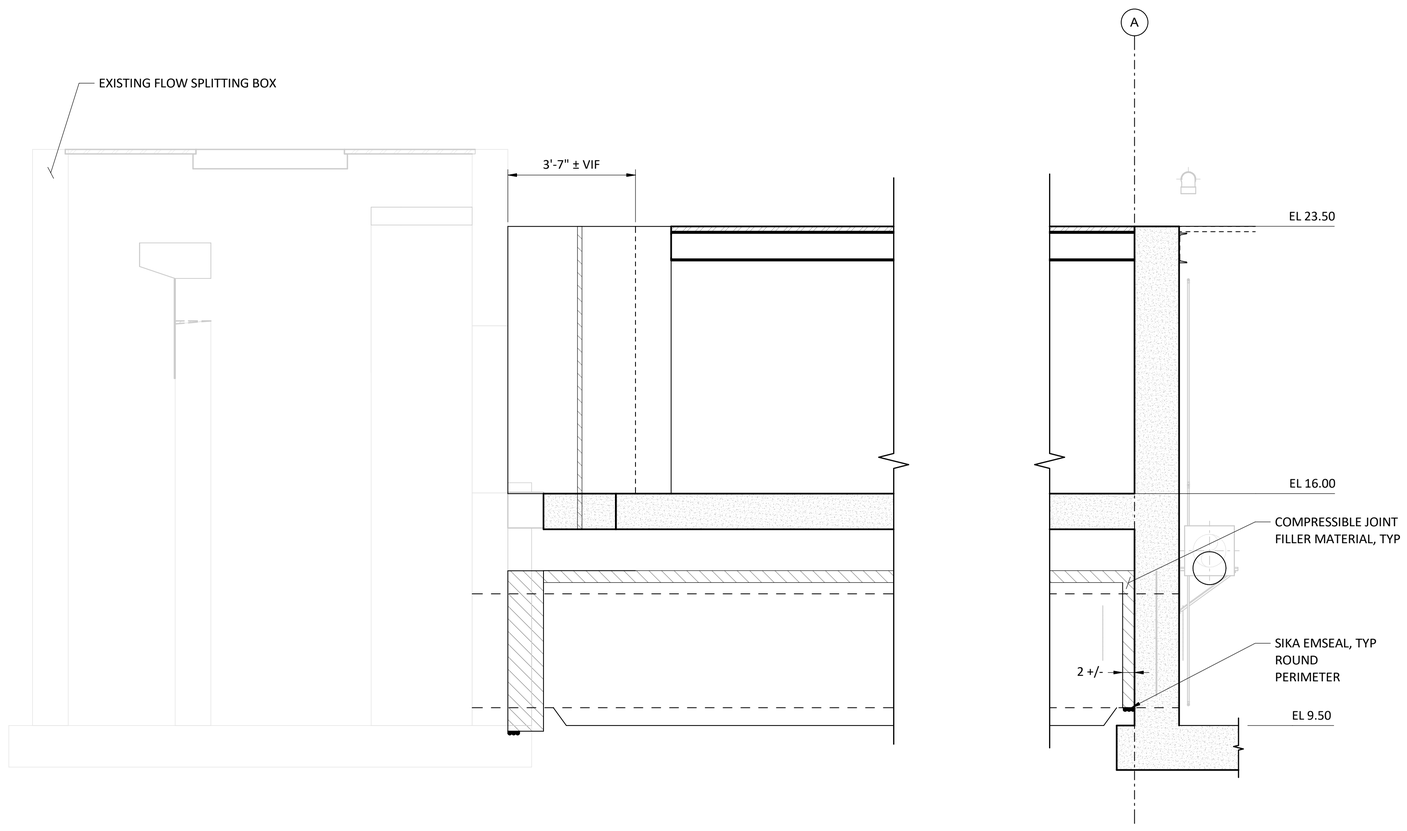
DISTRIBUTION BOX
AND FLOW METER
N/S SECTIONS - 2

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING
3S-12

Exhibit E.1 Page 63 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863s-mdrev.rvt



1 / 3S-1 SECTION

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

0 2' 4'

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

DISTRIBUTION BOX AND
FLOW METER FLOW
SPLITTING BOX INTERFACE

DESIGNED S. KORDZIEL

DRAWN E. BOWEN

CHECKED T. PETTY

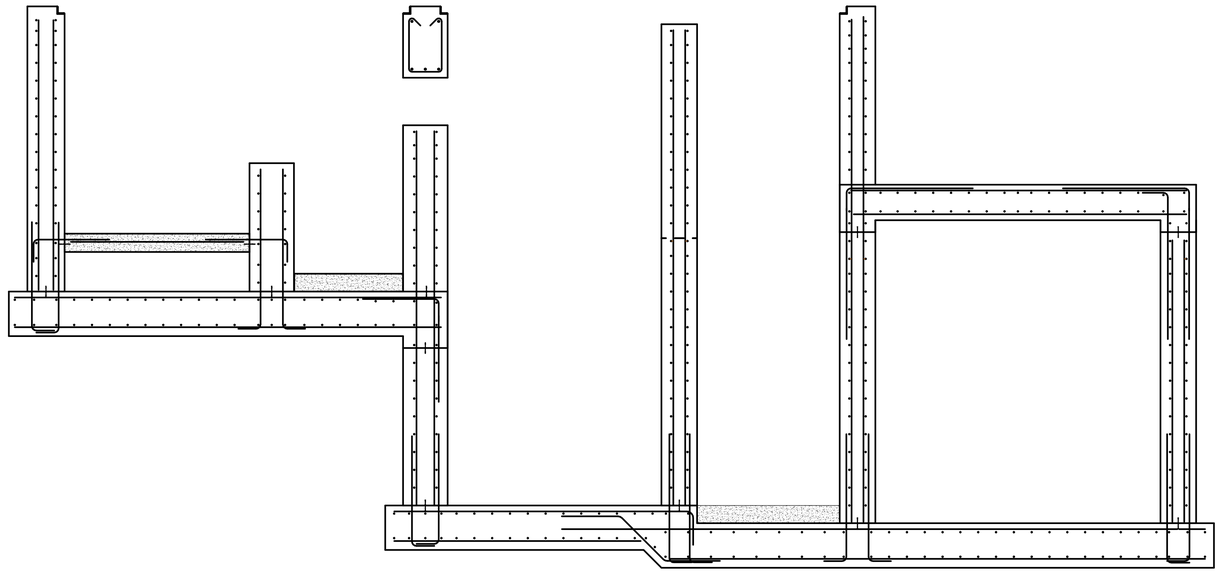
ISSUED DATE 06/29/2026

DRAWING

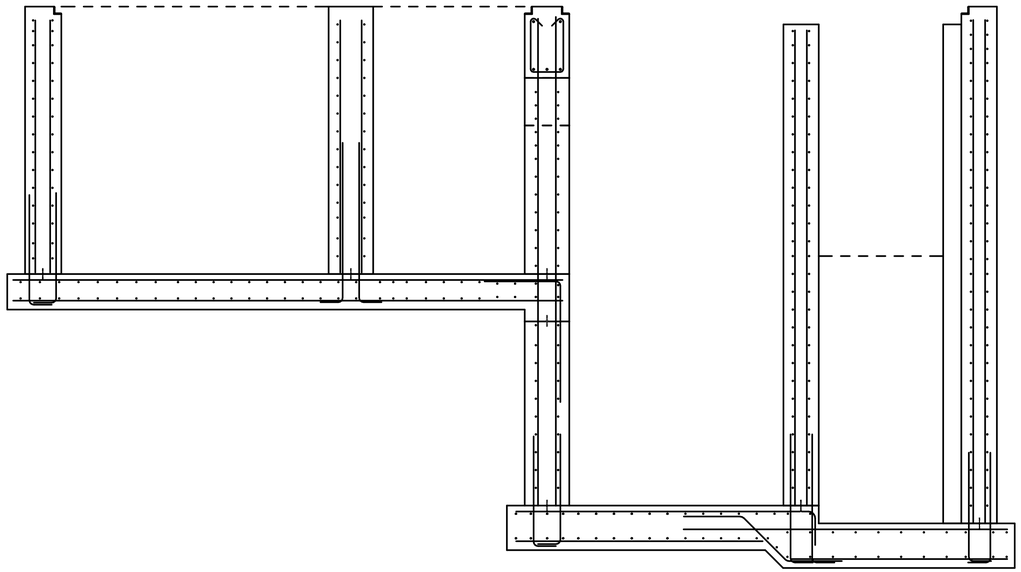
3S-13

Exhibit E.1 Page 64 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863s-mdrev.rvt



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



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

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

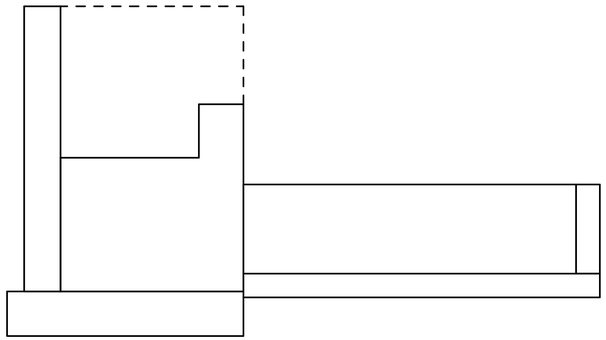
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

REINFORCING DETAILS - 1

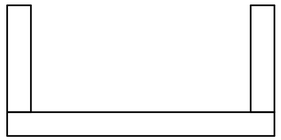
DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING
3S-20

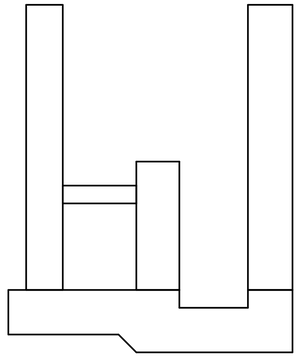
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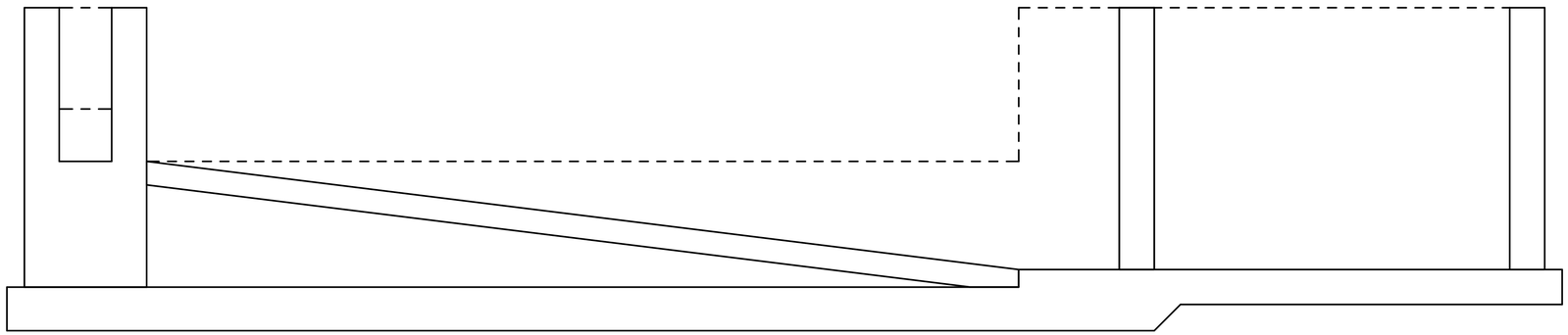
1 REINFORCING SECTION - 4
SCALE: 1/2" = 1'-0"



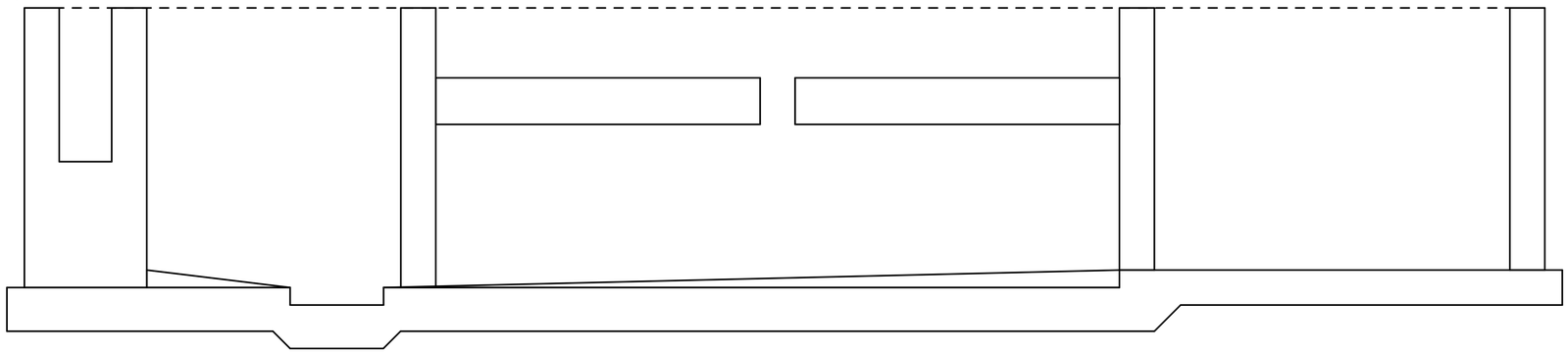
REINFORCING SECTION - 9
SCALE: 1/2" = 1'-0"



2 REINFORCING SECTION - 5
SCALE: 1/2" = 1'-0"



REINFORCING SECTION - 6
SCALE: 1/2" = 1'-0"



REINFORCING SECTION - 7
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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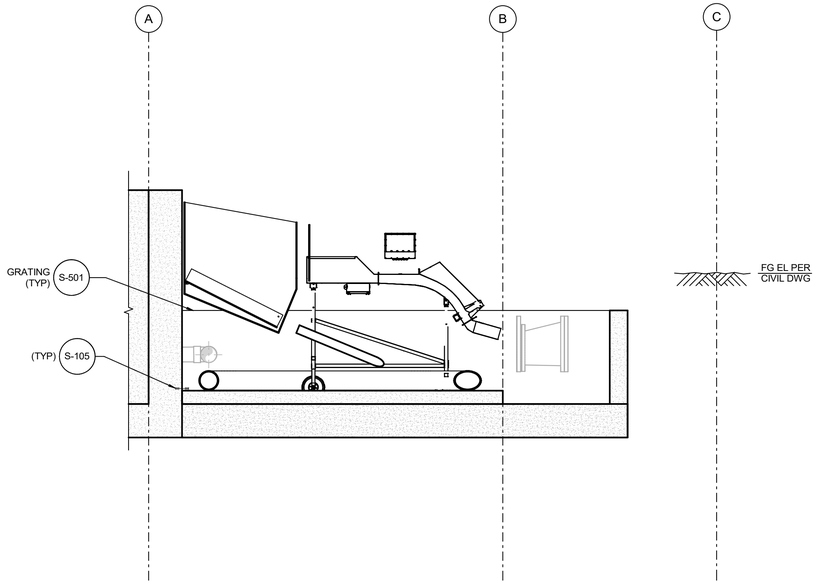
TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
REINFORCING DETAILS - 2

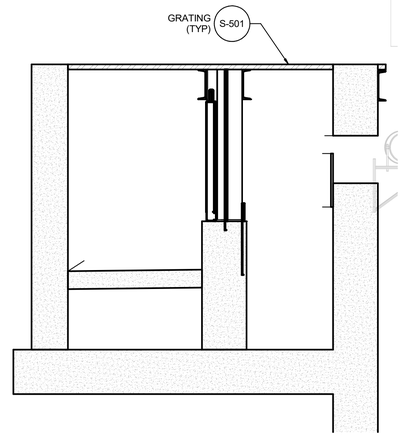
DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING
3S-21

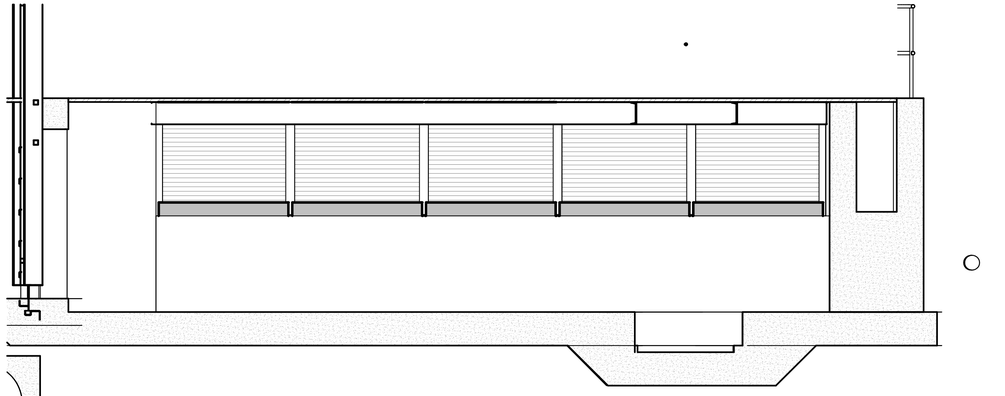
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268633-mdrev.rvt



G SECTION
SCALE: 3/8" = 1'-0"



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



J SECTION
SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP TRIBES

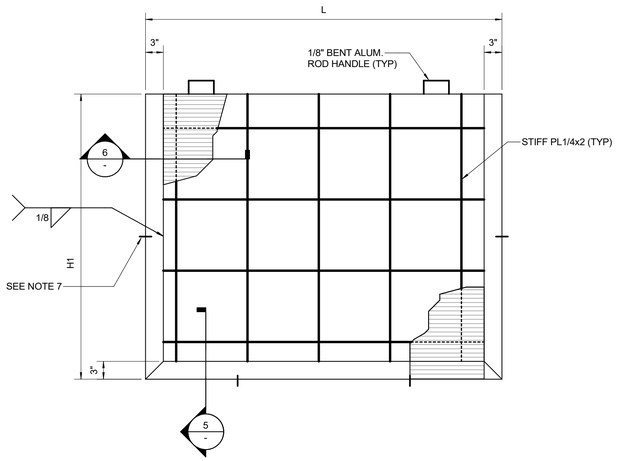
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FISH COUNTER BASIN AND SCREEN SECTIONS

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

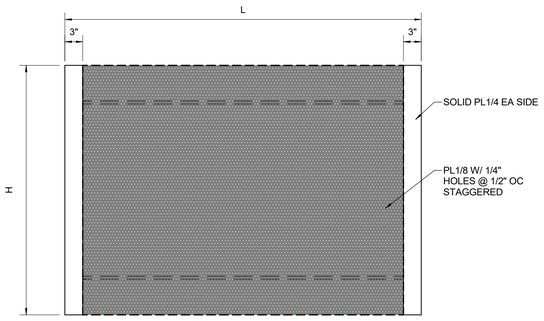
DRAWING
3S-WW

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863s-mdrev.rvt



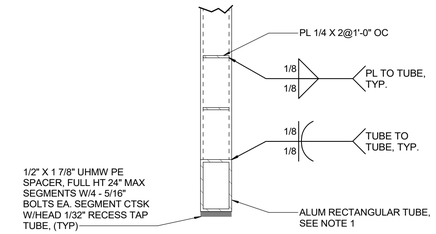
1 DETAIL- SCREEN CHANNEL PROFILE BAR SCREEN

SCALE: 1" = 1'-0"



2 DETAIL- INTERMEDIATE POND BAFFLE PLATE

SCALE: 1" = 1'-0"

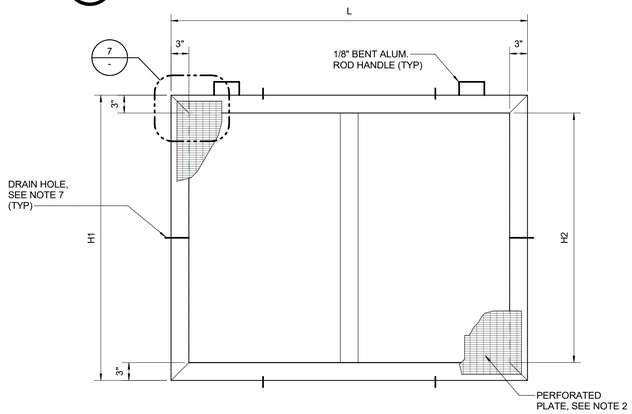


5 PROFILE BAR FRAME

SCALE: 3" = 1'-0"

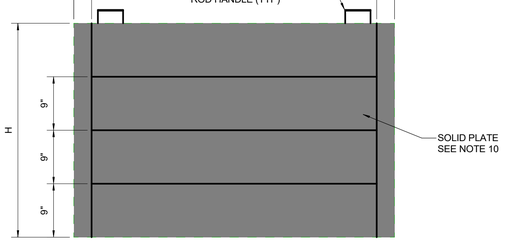
GENERAL SHEET NOTES

1. FRAME TO BE OF 1-3/4"x3" RECTANGULAR ALUM. TUBING 6063-T52 1.350 LBS / PER FOOT, UNLESS NOTED OTHERWISE.
2. PERFORATED PLATES TO BE 18 GAUGE ALUMINUM WITH 1-1/2"x1/4" SQUARE-END SLOT, STRAIGHT CENTERS OPENING ALLOY #5052 68% OPEN AREA.
3. GRIND ALL WELD FLUSH, THAT ARE IN CONTACT WITH PERFORATED ALUMINUM PLATE.
4. ATTACH PERFORATED PLATE TO ALUMINUM FRAME WITH 3/16" ALUM POP RIVETS @ 3" O.C.
5. FLOW CONTROL BAFFLES ARE NOT TO BE USED FOR DEWATERING; FAILURE MAY OCCUR.
6. ATTACH PERFORATED PL. TO ALUM. FRAME W /ALUM. POP RIVETS AT 3" O.C. ROUGH SIDE O.D. PERFORATIONS SHALL FACE TOWARDS TUBING.
7. DRAIN HOLE SHALL BE 3/8" DIA.
8. THE MAX WARPAGE ALLOWANCE SHALL BE 1/16" WHEN FRAMES ARE LAID ON FLAT SURFACE.
9. BLANK PANEL TO BE 1/4" ALUMINUM PLATE ALLOY 3003-H14
10. SOLID PLATE TO BE 1/4" STAINLESS STEEL CONFORMING TO ASTM A240



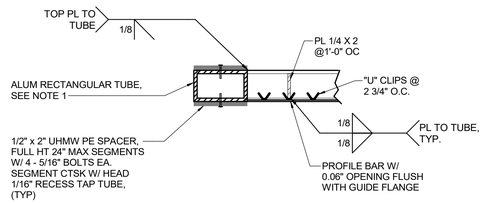
3 DETAIL- INTERMEDIATE POND RACEWAY SCREEN

SCALE: 1" = 1'-0"



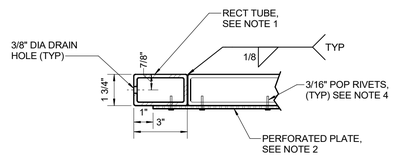
4 DETAIL- INTERMEDIATE POND WEIR PLATE

SCALE: 1" = 1'-0"



6 DETAIL -PROFILE BAR FRAME

SCALE: 3" = 1'-0"



7 DETAIL - RACEWAY SCREEN FRAME

SCALE: 3" = 1'-0"

REV	DATE	BY	DESCRIPTION

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

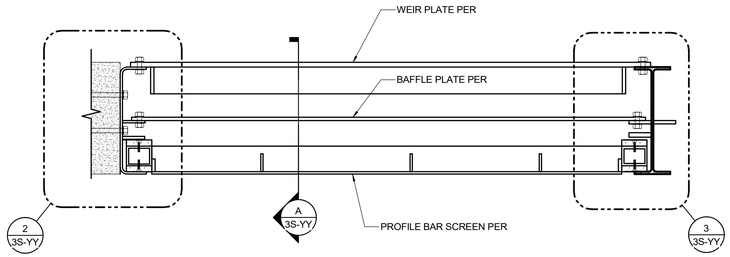
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SCREEN GUIDES AND SOCKET DETAILS

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

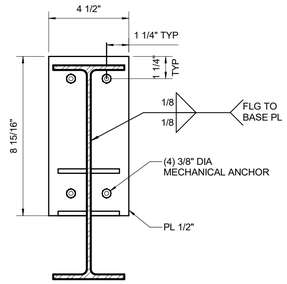
DRAWING
3S-XX

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863s-mdrev.rvt



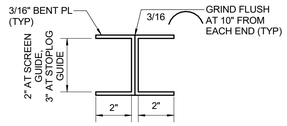
1 SCREEN GUIDE DETAIL

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



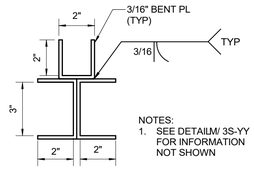
5 SCREEN GUIDE BASEPLATE

SCALE: 3" = 1'-0"



M SECTION - REMOVABLE GUIDES

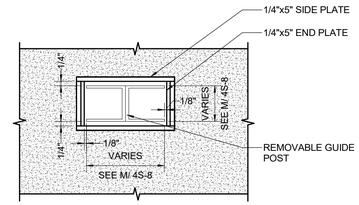
SCALE: 3" = 1'-0"



NOTES:
1. SEE DETAILM/ 3S-YY FOR INFORMATION NOT SHOWN

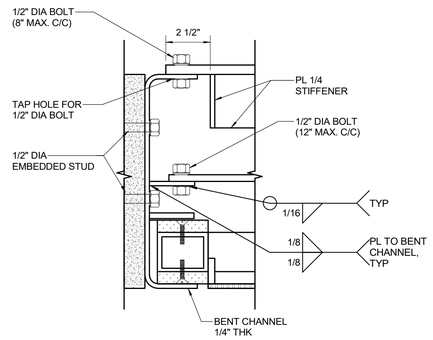
N 3S-YY SECTION - REMOVABLE GUIDE

SCALE: 3" = 1'-0"



J 3S-YY SECTION - GUIDE SOCKET

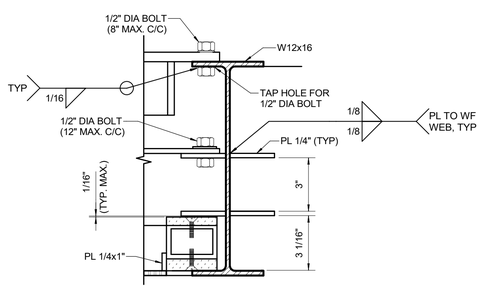
SCALE: 3" = 1'-0"



NOTES:
1. PLATES, FRAMING, HARDWARE FOR SUPPORT ASSEMBLY IS TO BE STAINLESS STEEL. SEE GENERAL SHEET NOTES 6, 7, 8.
2. WEIR PLATE, BAFFLE PLATE, PROFILE BAR SCREEN ASSEMBLIES TO BE ALUMINUM OR STAINLESS STEEL PER 4S-7

2 SCREEN GUIDE AT CONCRETE SUPPORT

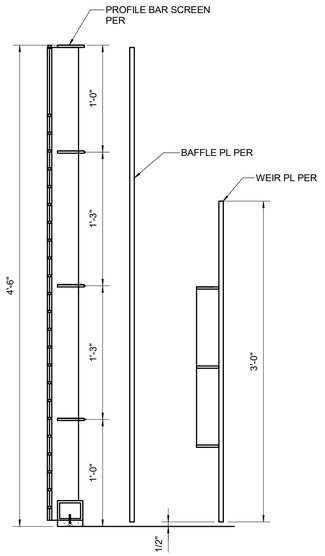
SCALE: 3" = 1'-0"



NOTES:
1. PLATES, FRAMING, HARDWARE FOR SUPPORT ASSEMBLY IS TO BE STAINLESS STEEL. SEE GENERAL SHEET NOTES 6, 7, 8.
2. WEIR PLATE, BAFFLE PLATE, PROFILE BAR SCREEN ASSEMBLIES TO BE ALUMINUM OR STAINLESS STEEL PER 4S-7

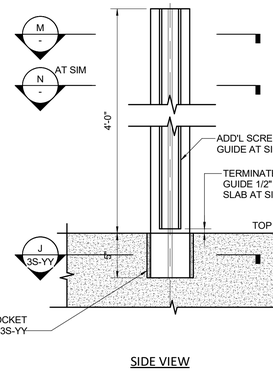
3 SCREEN GUIDE AT INTERMEDIATE SUPPORT

SCALE: 3" = 1'-0"



A 3S-YY SECTION

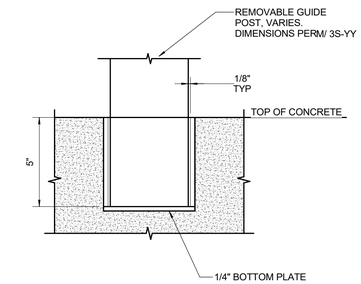
SCALE: 1 1/2" = 1'-0"



SIDE VIEW

4 REMOVABLE SCREEN GUIDE DETAIL

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



6 GUIDE SOCKET DETAIL

SCALE: 3" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

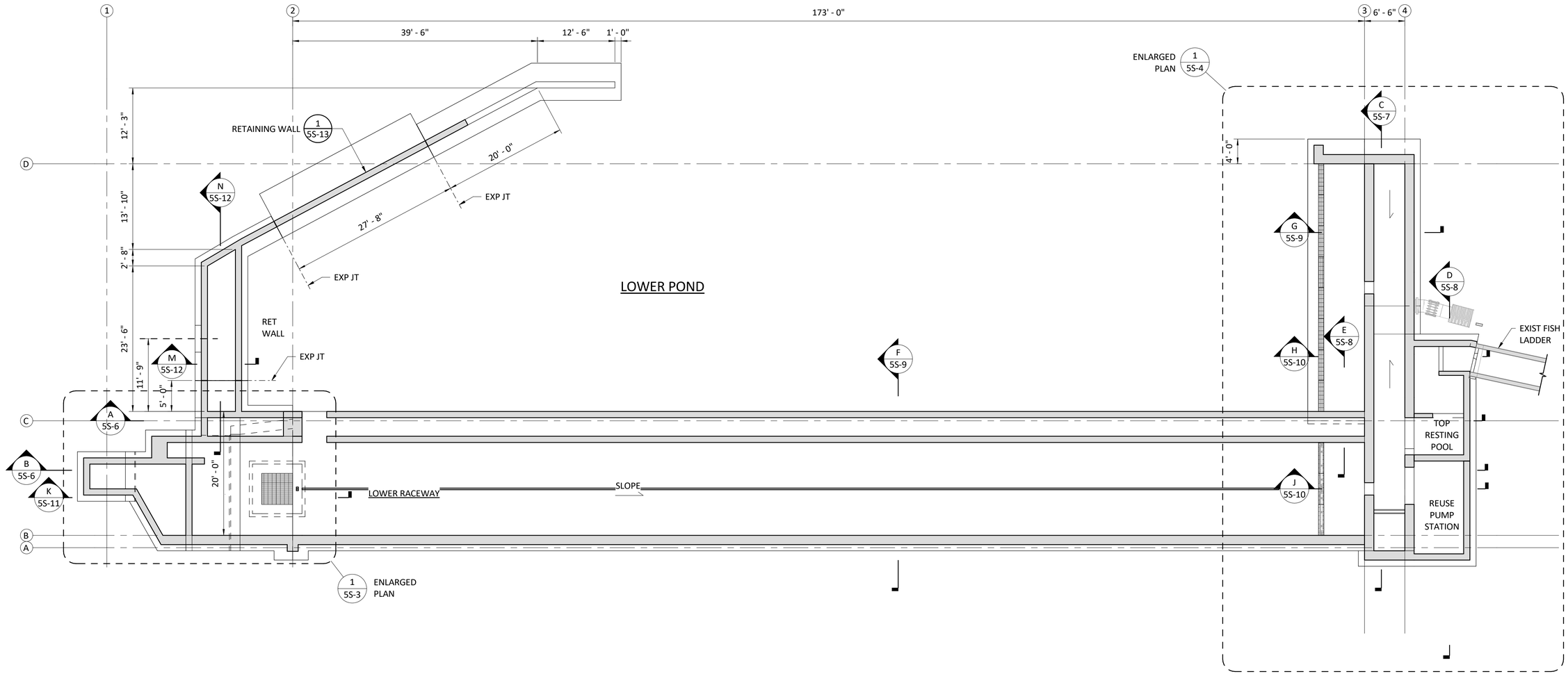
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SCREEN GUIDE AND SOCKET DETAILS

DESIGNED S. KORDZIEL
DRAWN E. BOWEN
CHECKED T. PETTY
ISSUED DATE 06/29/2026

DRAWING
3S-YY

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863s-mdrev.rvt



FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

0 8' 16'

N

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

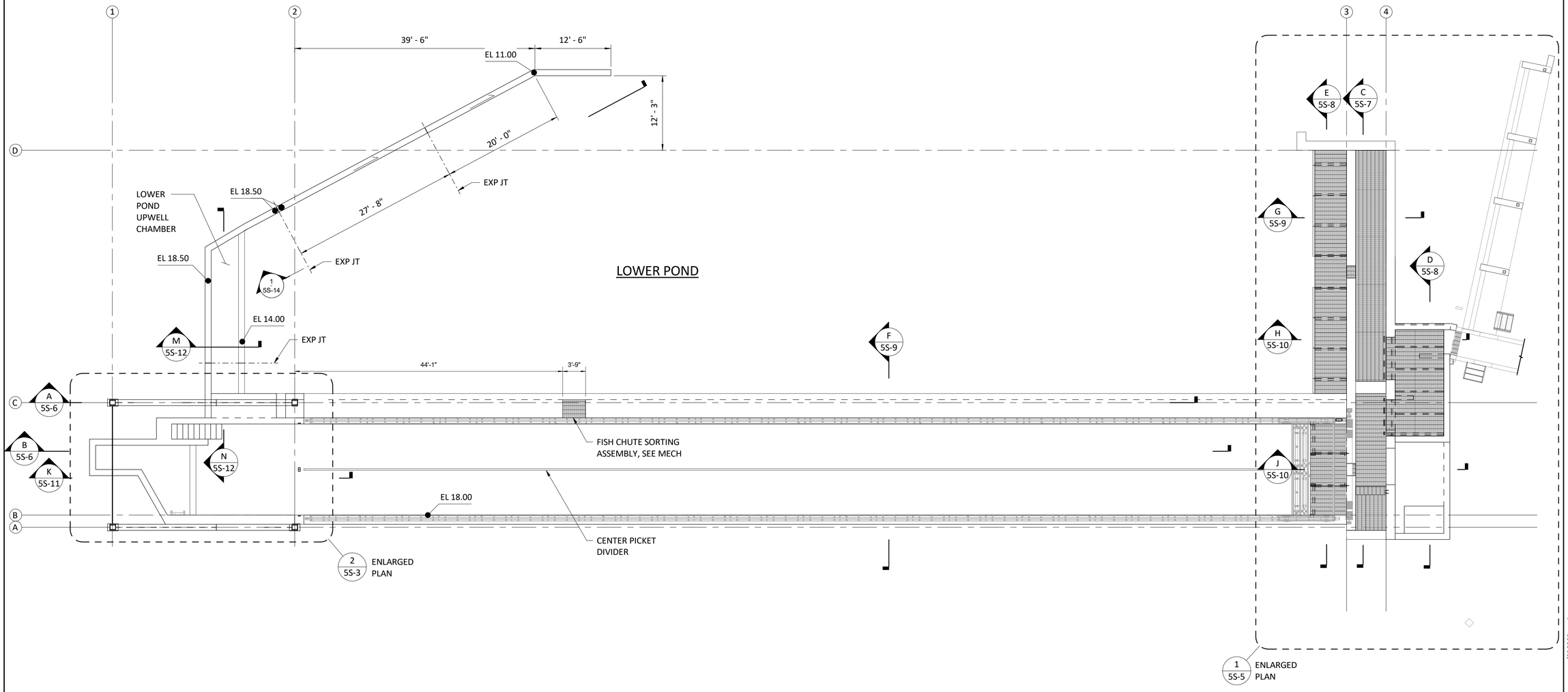
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER POND AND RACEWAYS FOUNDATION PLAN 1

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING 5S-1

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268855-md.rvt
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TOP PLAN

SCALE: 1/8" = 1'-0"

0 8' 16'

N

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING

0 1/2 1

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TULALIP TRIBES

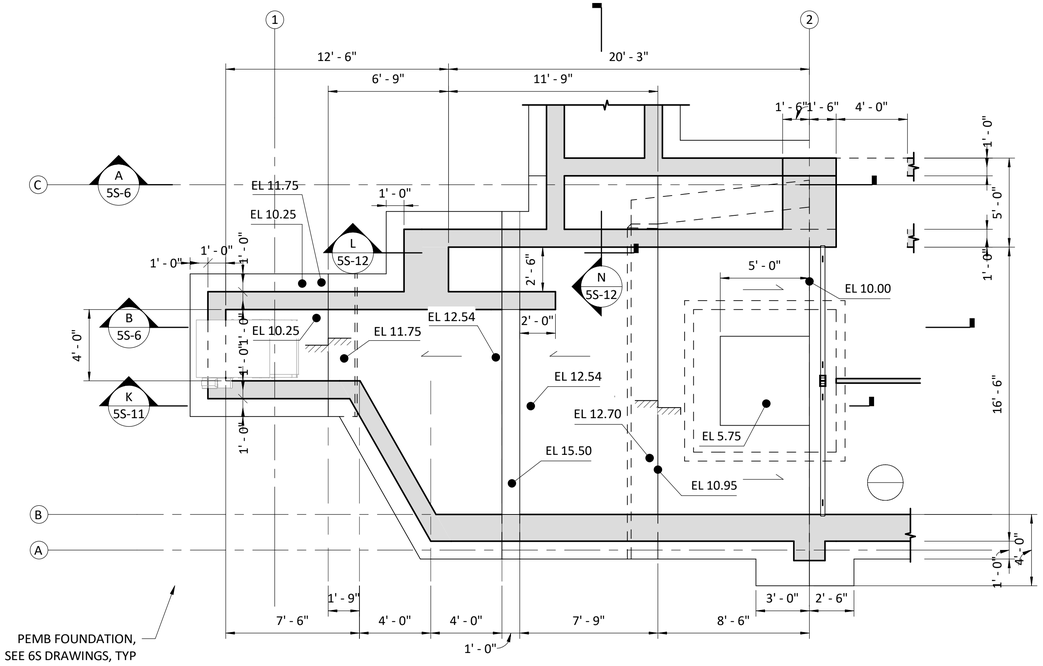
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER POND AND RACEWAYS TOP PLAN

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
5S-2

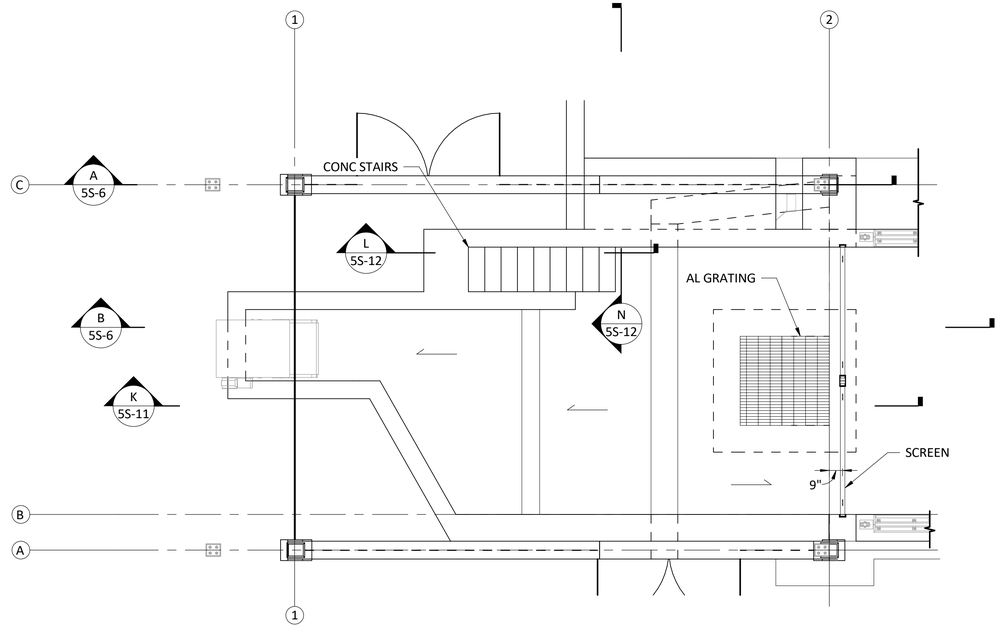
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:13:20 PM



1 5S-1 ENLARGED FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

0 4' 8'



2 5S-2 ENLARGED TOP PLAN

SCALE: 1/4" = 1'-0"

0 4' 8'

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

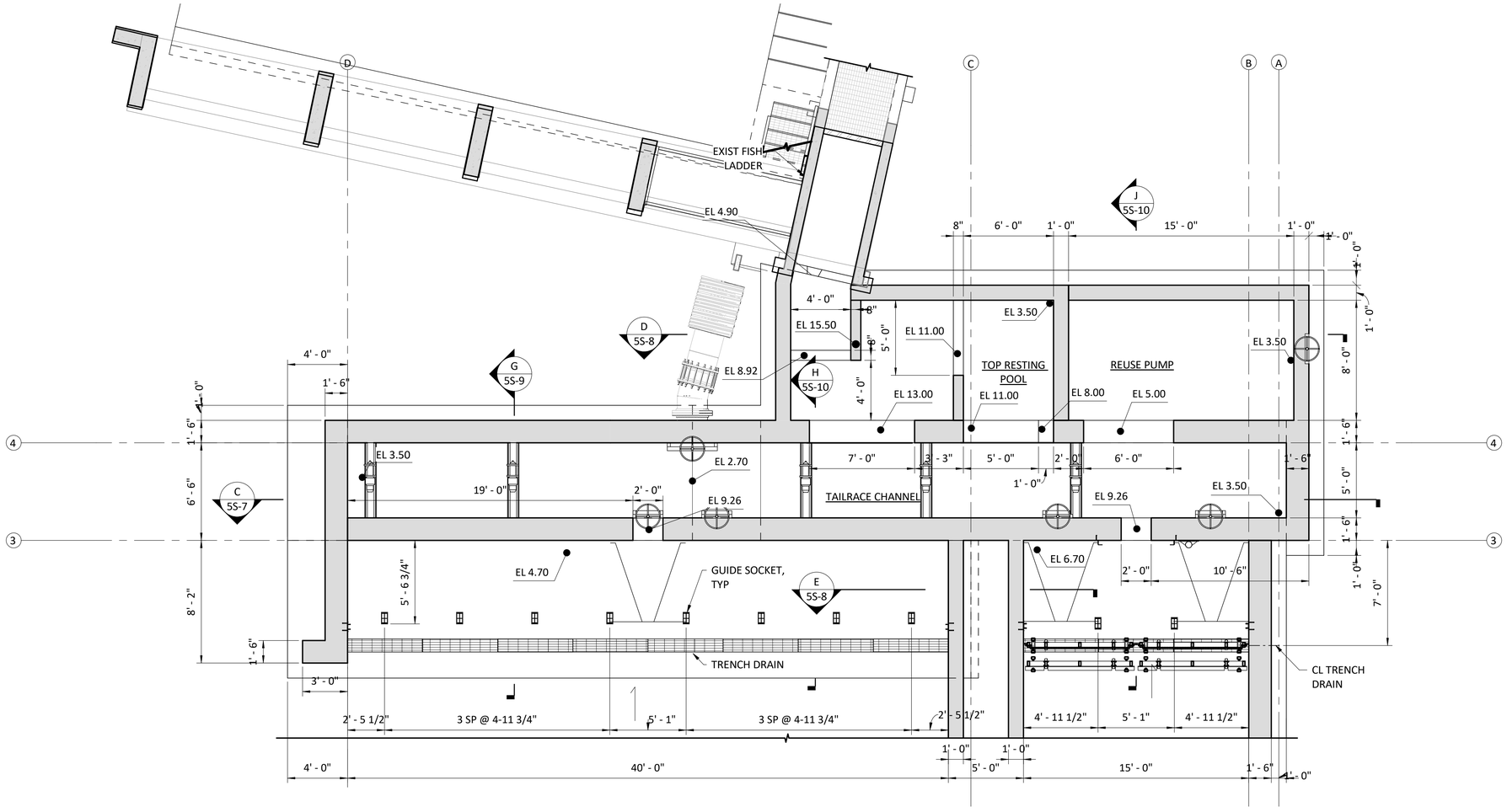
LOWER POND AND RACEWAYS ENLARGED PLANS 1

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
5S-3

Exhibit E.1 Page 72 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:13:23 PM



1 / 5S-1 ENLARGED FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

0 4' 8'

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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Exhibit E.1 Page 73 of 161

TULALIP TRIBES

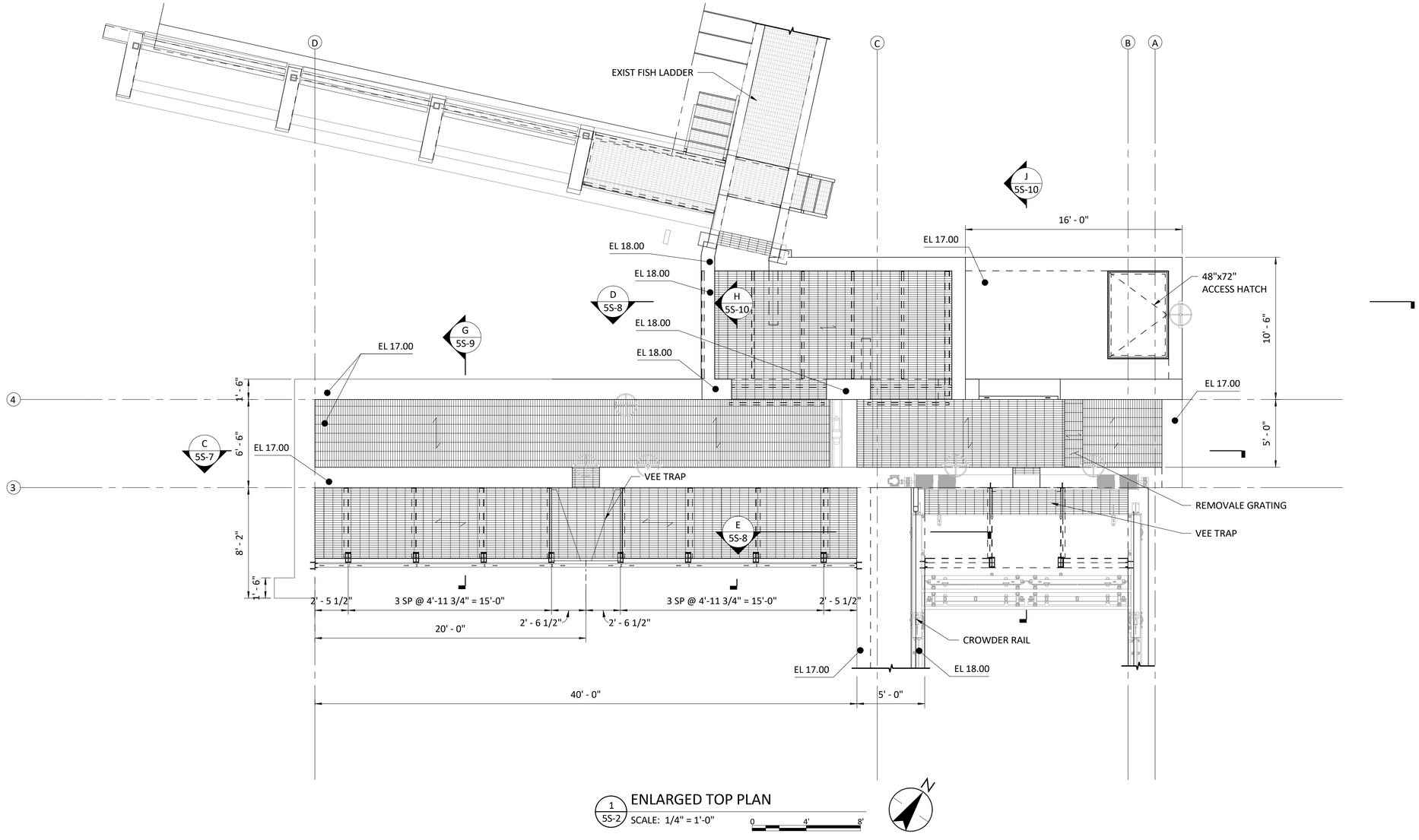
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER POND AND RACEWAYS ENLARGED PLANS 2

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING 5S-4

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:13:25 PM



1 / 5S-2 ENLARGED TOP PLAN

SCALE: 1/4" = 1'-0"

0 4' 8'

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

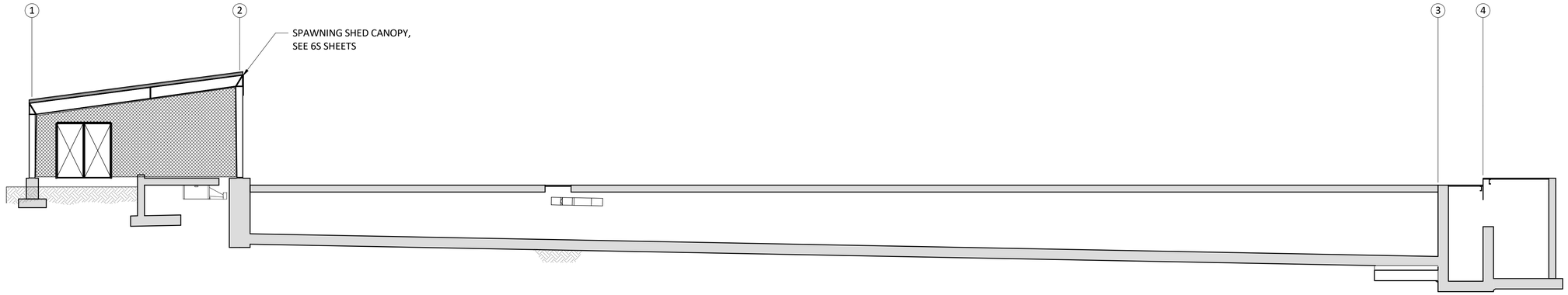
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER POND AND RACEWAYS ENLARGED PLANS 3

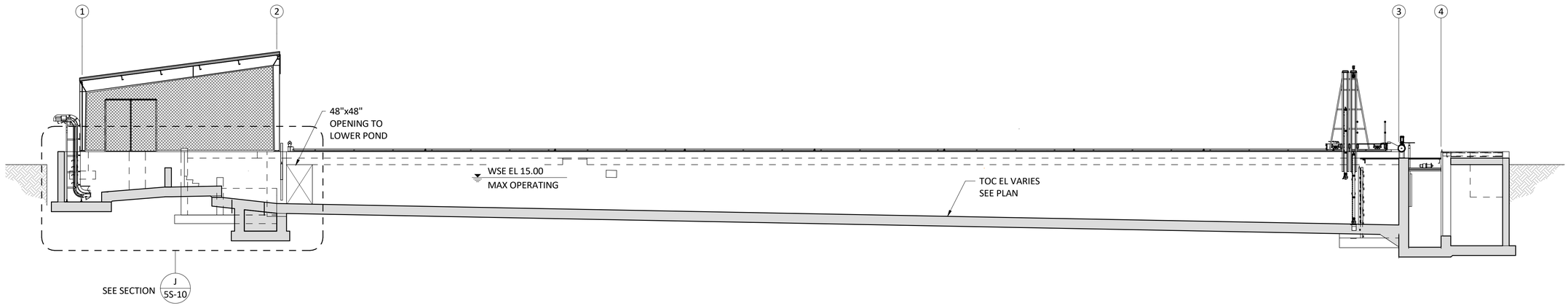
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING 5S-5

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:02:43 PM



A 1S-1 SECTION
SCALE: 1/8" = 1'-0"



B 1S-1 LOWER RACEWAY SECTION
SCALE: 1/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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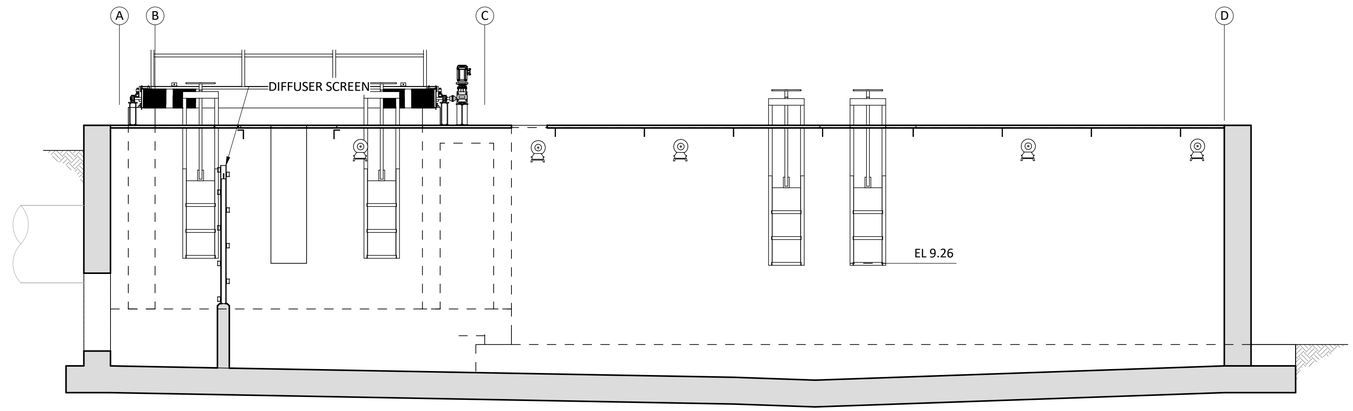
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER POND AND RACEWAYS SECTIONS

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
5S-6

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:06:20 PM



C / 1S-1 SECTION

SCALE: 1/4" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING

0 1/2 1

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TULALIP TRIBES

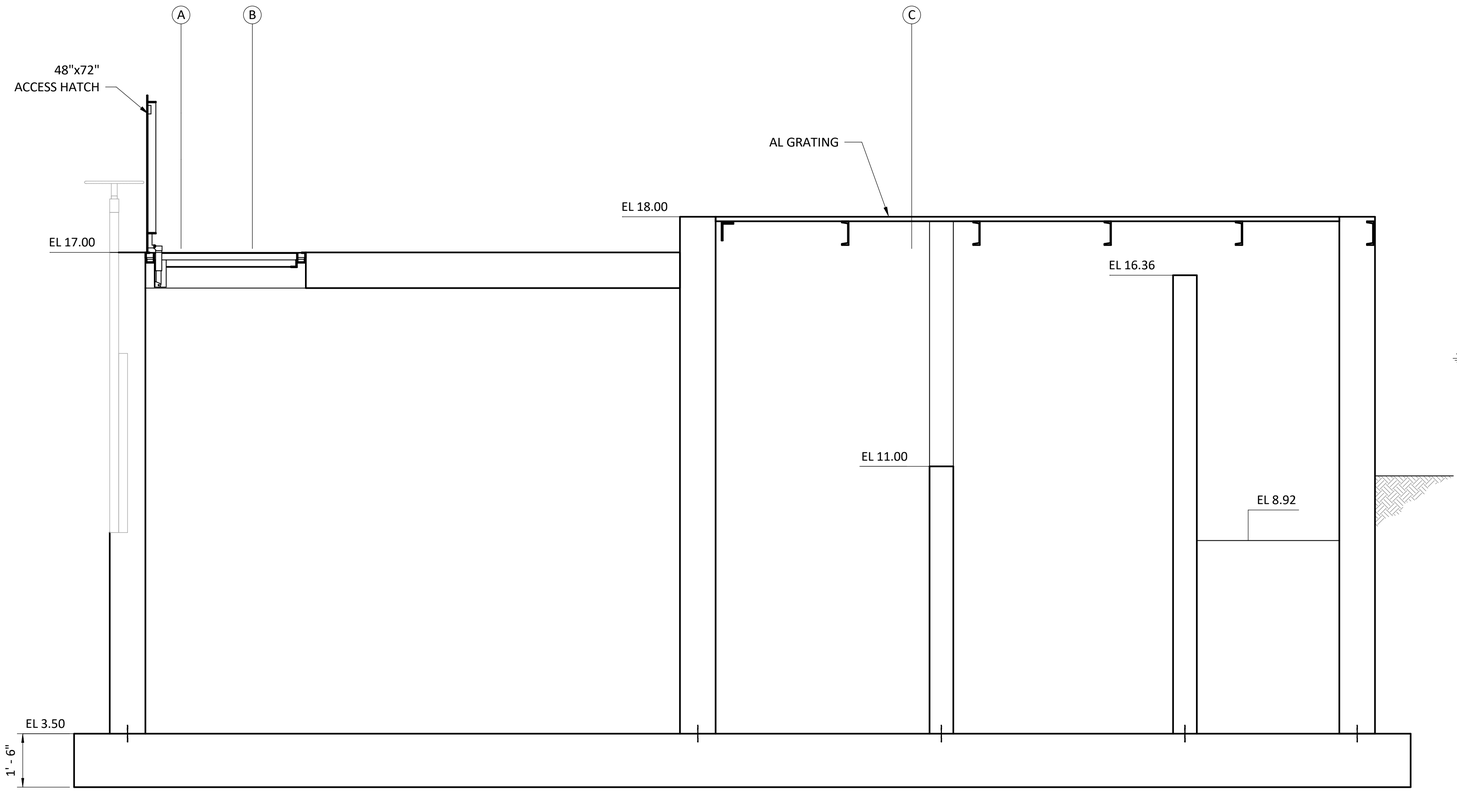
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER POND AND RACEWAYS FOUNDATION REINFORCEMENT
PLAN 1

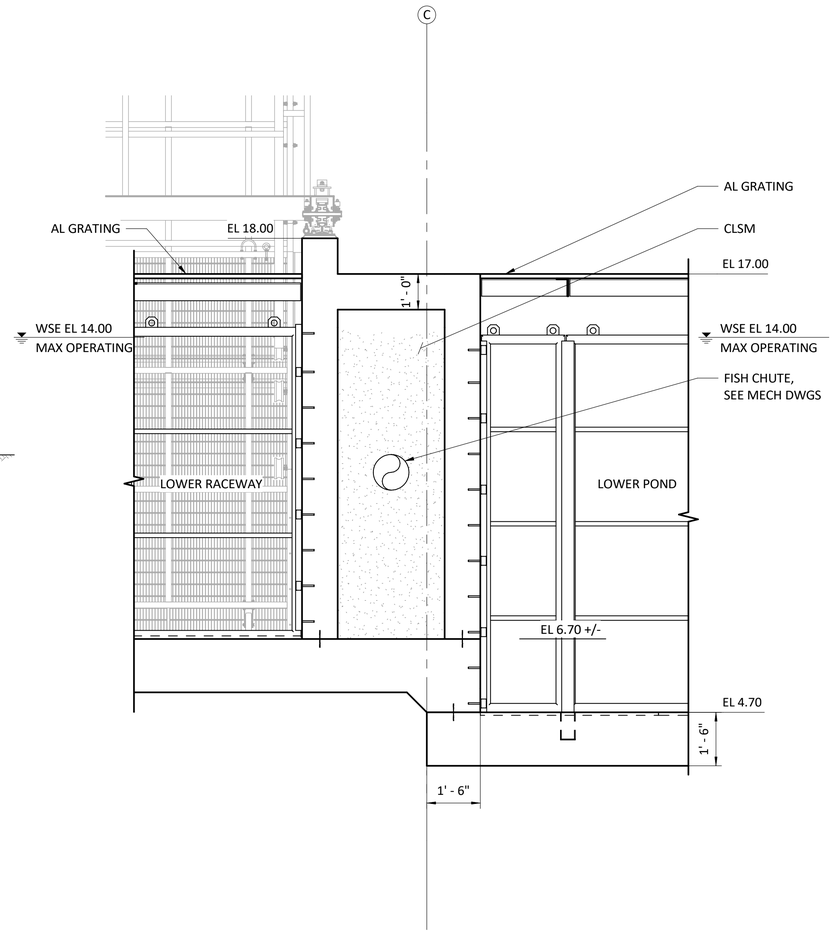
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
5S-7

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
6/29/2026 1:06:50 PM



D 1S-1 SECTION
SCALE: 1/2" = 1'-0"



E 1S-1 SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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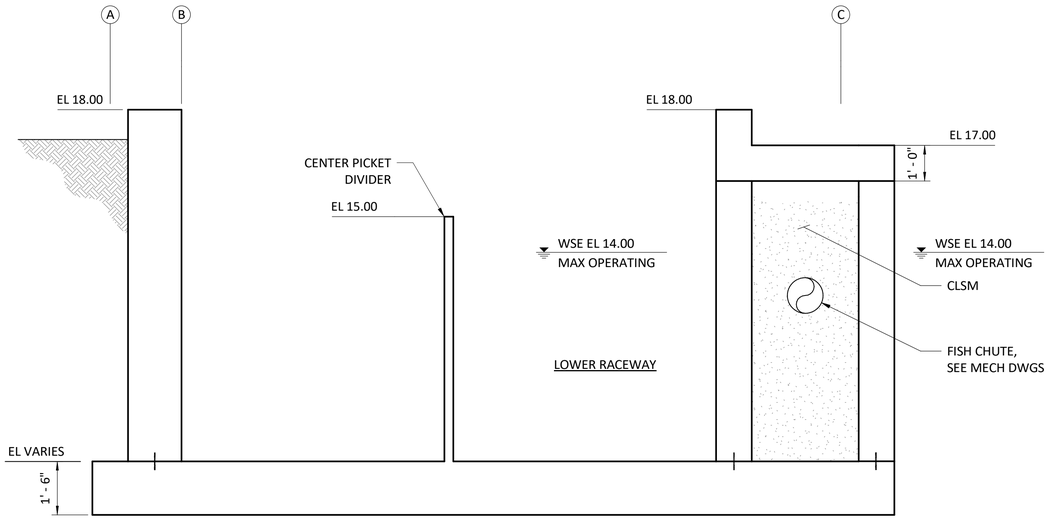
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER POND AND RACEWAYS FOUNDATION REINFORCEMENT
PLAN 2

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

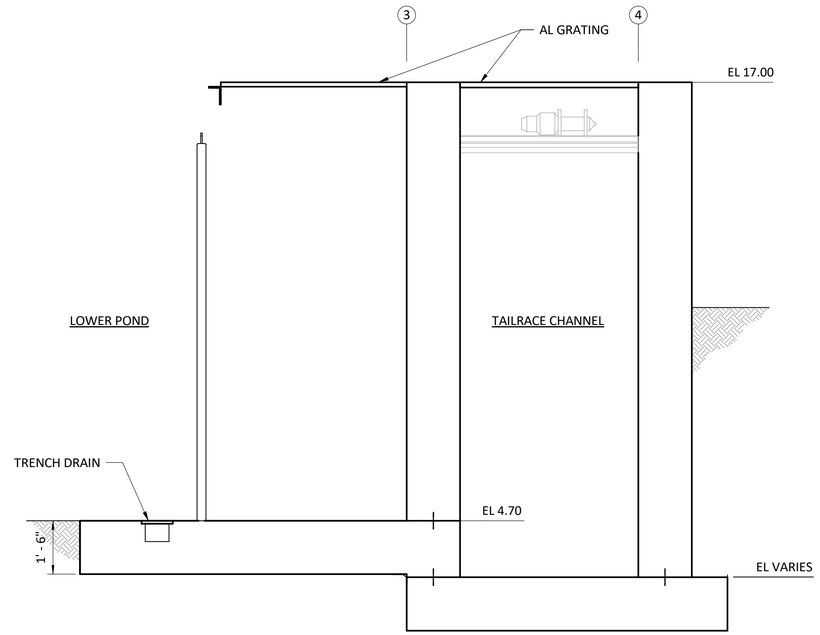
DRAWING
5S-8

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
6/29/2026 1:06:23 PM



F / 1S-1 SECTION

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



G / 1S-1 SECTION

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

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

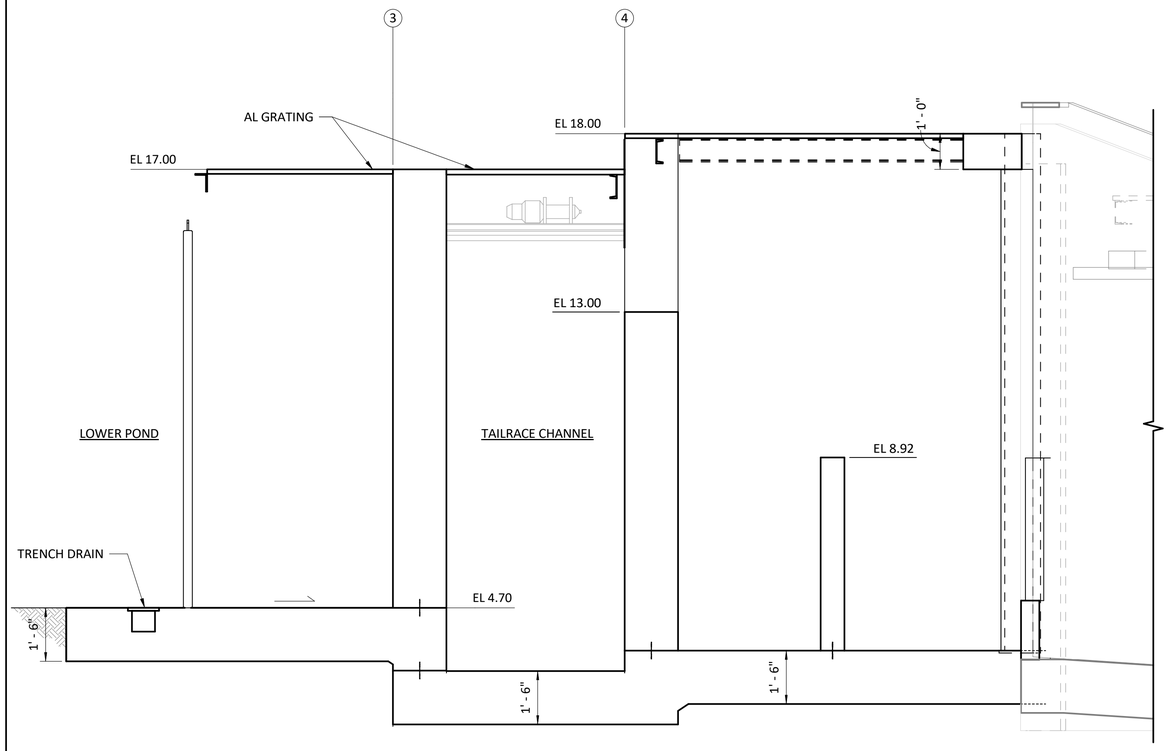
LOWER POND AND RACEWAYS SECTIONS 1

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

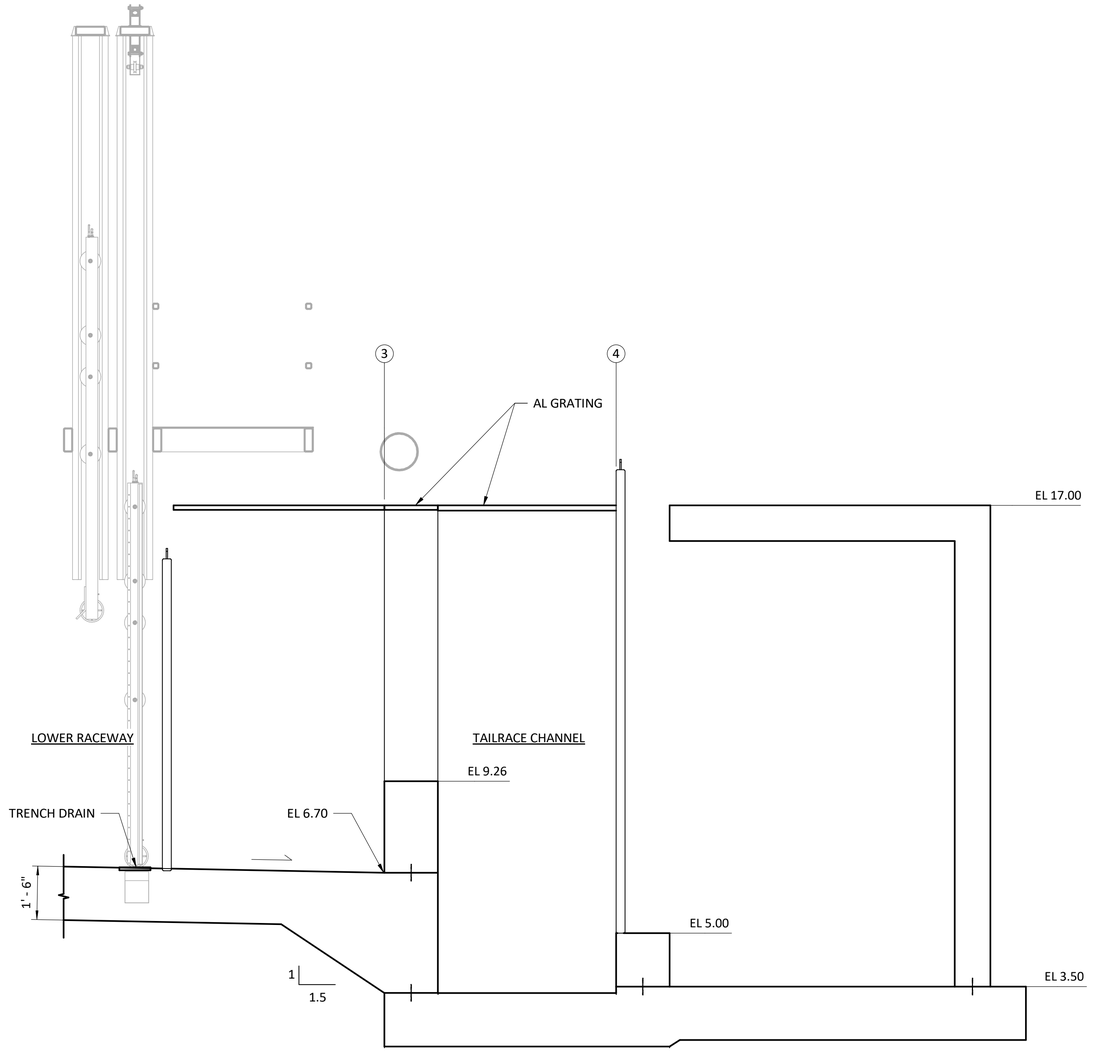
DRAWING

5S-9

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:06:23 PM



H 1S-1 SECTION
SCALE: 1/2" = 1'-0"



J 5S-1 SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

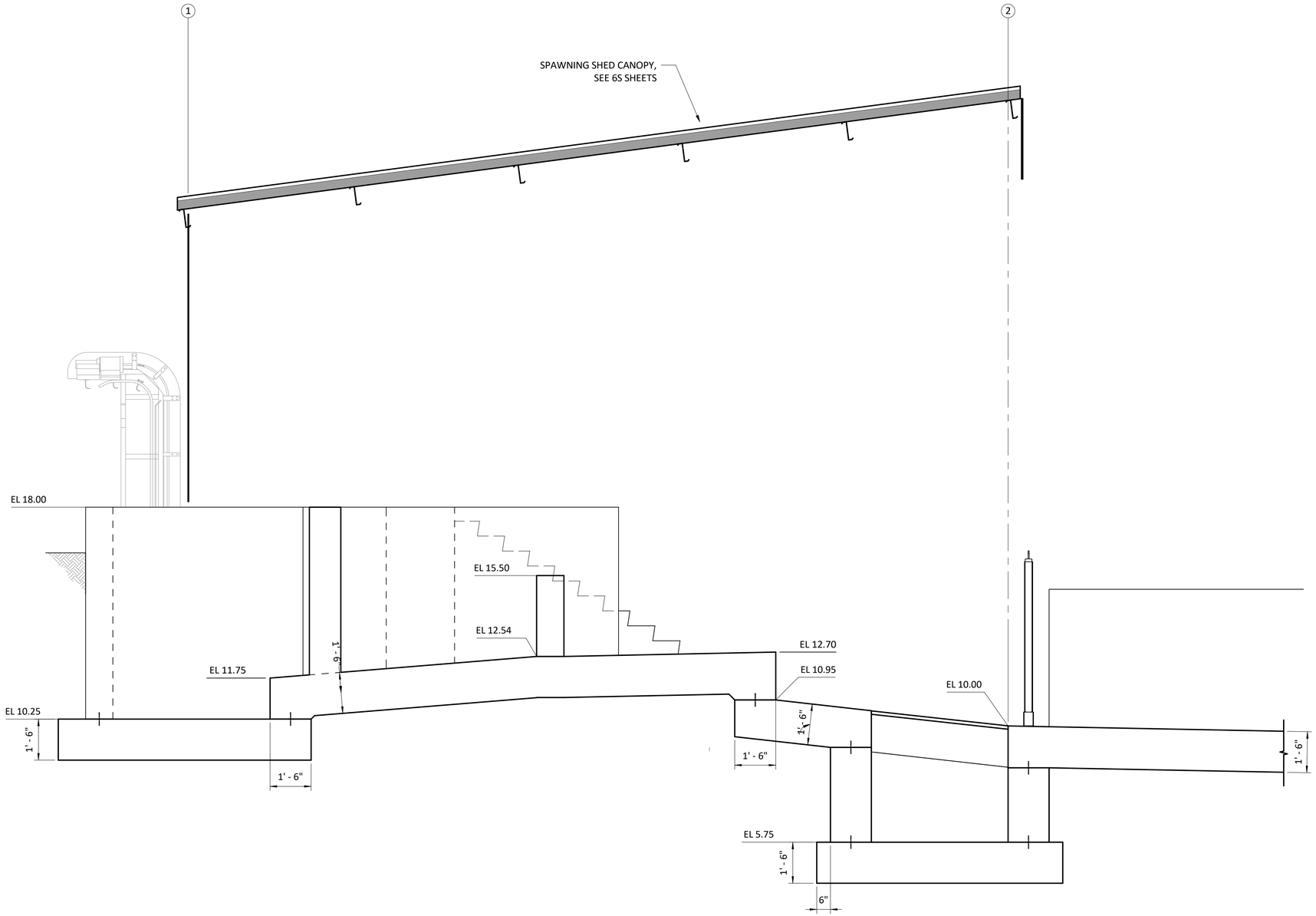
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER POND AND RACEWAYS SECTIONS 2

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
5S-10

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
6/29/2026 1:06:26 PM



K
5S-1
SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

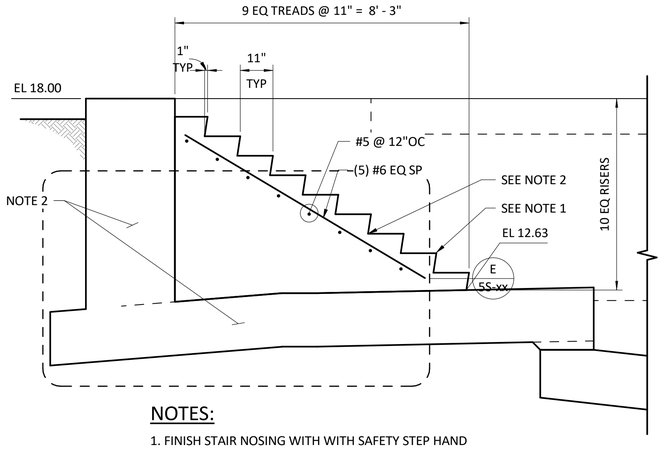
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER POND AND RACEWAYS SECTIONS 3

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
5S-11

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
6/29/2026 1:06:28 PM



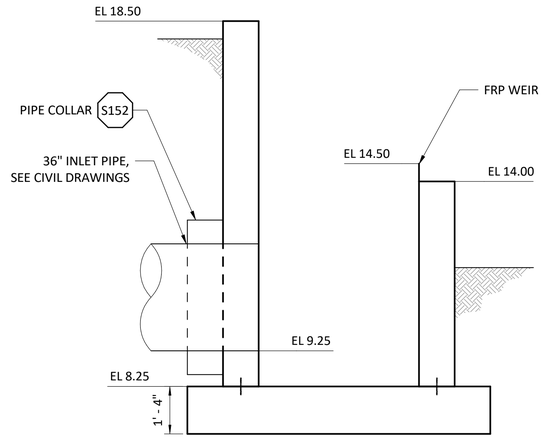
NOTES:

1. FINISH STAIR NOSING WITH WITH SAFETY STEP HAND GROOVER TOOL (MARSHALLTOWN PART 4282D OR EQUAL).

2. TYPICAL WALL AND SLAB REINFORCEMENT NOT SHOWN.

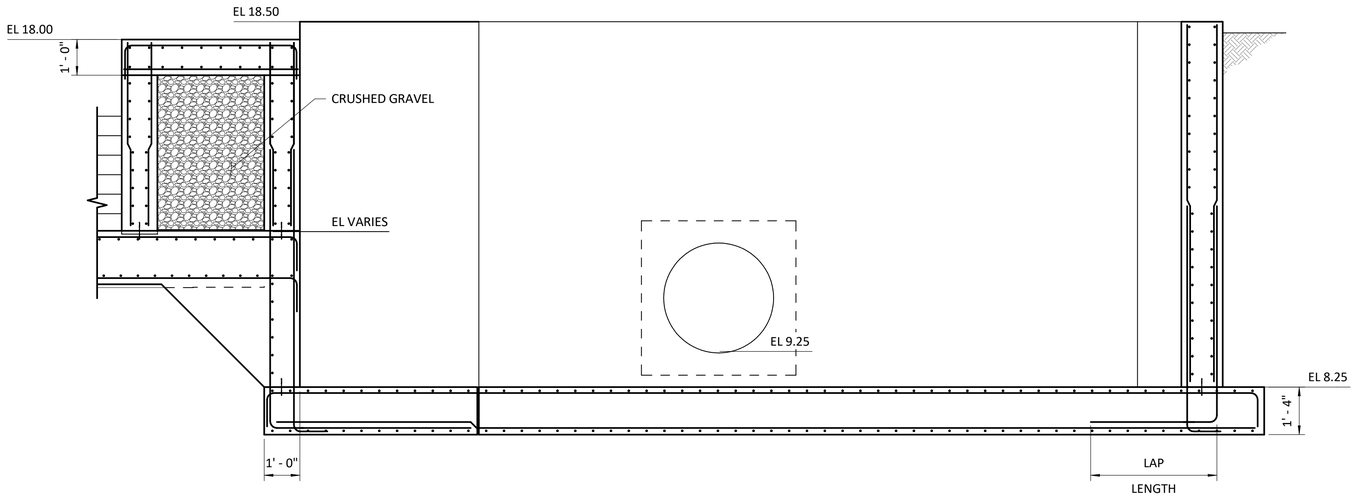
L / - SECTION

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



M / - SECTION

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



N / - SECTION

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

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

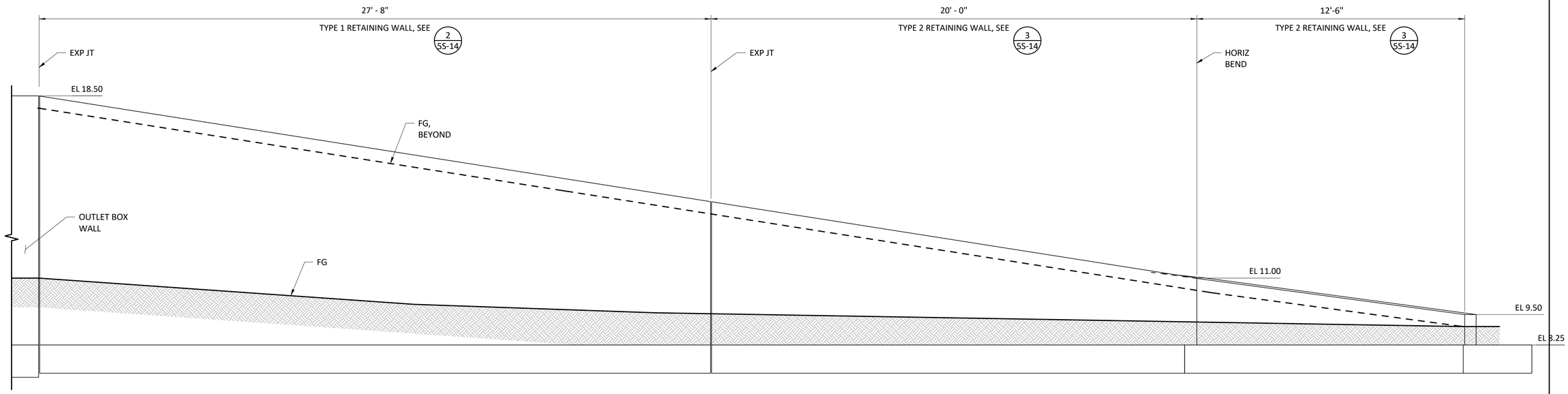
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER POND AND RACEWAY SECTIONS 4

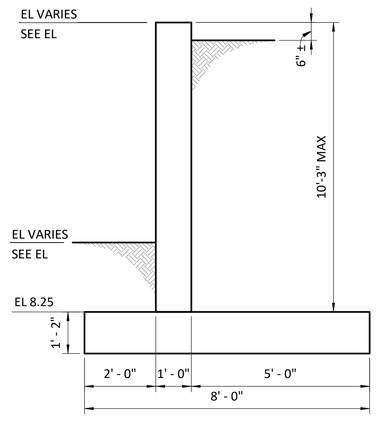
DESIGNED Designer
DRAWN Author
CHECKED Checker
ISSUED DATE 06/29/2026

DRAWING 5S-12

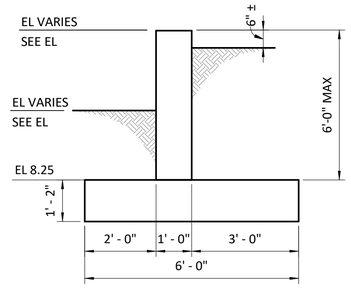
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:06:31 PM



1 - RETAINING WALL ELEVATION
SCALE: 1/2" = 1'-0"



2 - RETAINING WALL - TYPE 1
SCALE: 1/2" = 1'-0"



3 - RETAINING WALL - TYPE 2
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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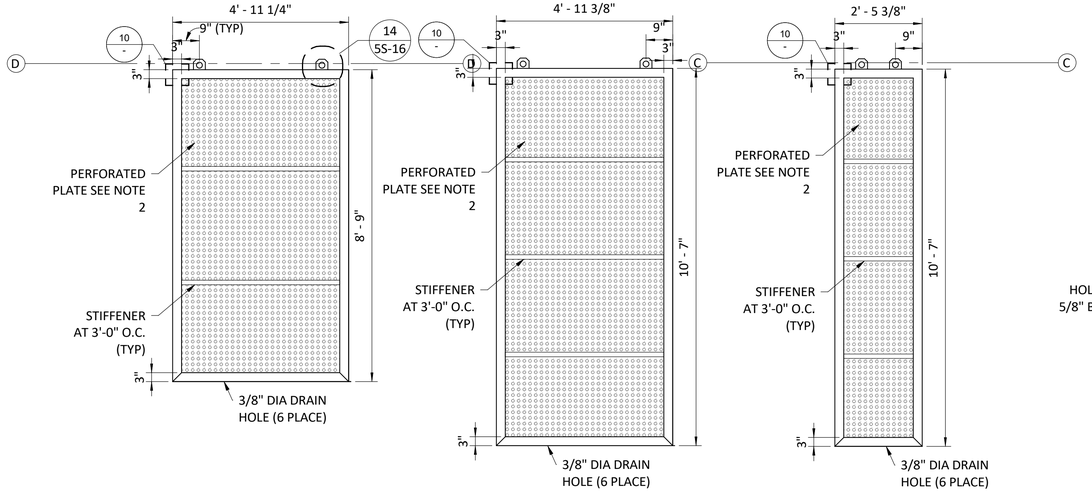
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER POND AND RACEWAY DETAILS 2

DESIGNED AG
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ISSUED DATE 06/29/2026

DRAWING
5S-14

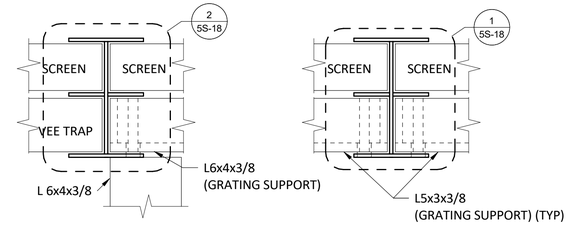
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6/29/2026 1:06:31 PM

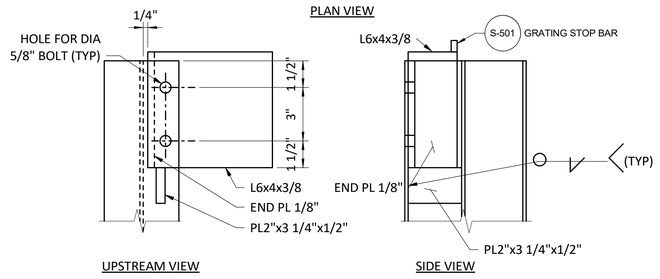


6 - DETAIL
SCALE: 1/2" = 1'-0"

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

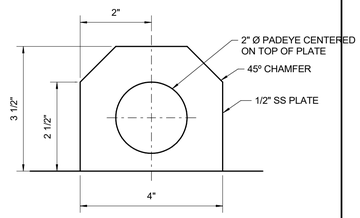
8 - DETAIL
SCALE: 1/2" = 1'-0"

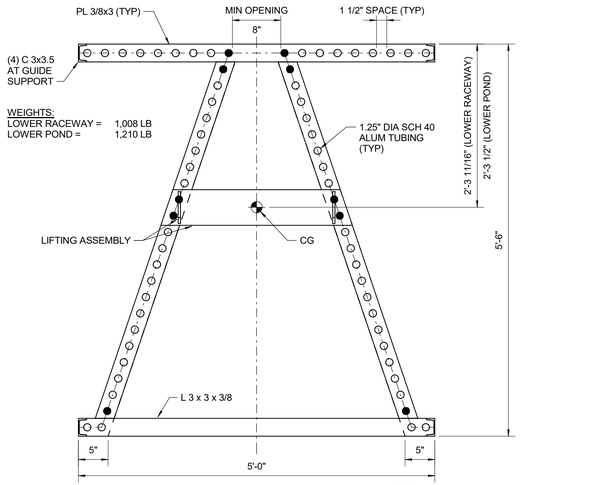




GENERAL SHEET NOTES

1. FRAMING TO BE OF 3" x 3" x 1/8" AND STIFFENER TO BE OF 2 1/2" x 1 1/2" x 1/8" RECTANGULAR ALUM TUBING 6063-T52.
2. PERFORATED PLATES TO BE 1/8" ALUMINUM WITH 3/32"x1 1/4" VERT. OFFSET PATTERN OBLONG OPENING ALLOY #5052 50% OPENING.
3. GRIND ALL WELDS FLUSH, THAT ARE IN CONTACT WITH PERFORATED ALUMINUM PLATE.
4. ATTACH PERFORATED PLATE TO ALUMINUM FRAME WITH 3/16" ALUM. POP RIVETS @ 3" C.C.
5. SEE SHEET 5S-2 FOR SCREENS, GUIDES, ZEE TRAPS LOCATION.

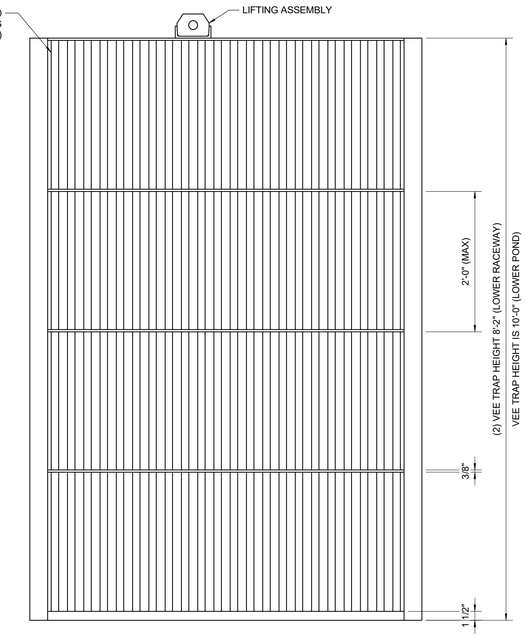




TOP PLAN

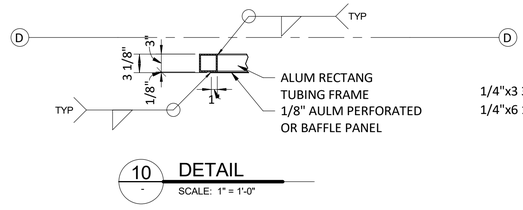
- PIPE TO BE TACK WELDED TO THE FLAT BAR / ANGLE
- PIPE TO BE FILLET WELDED 1/8" AROUND ON TOP AND BOTTOM OF THE FLAT BAR / ANGLE

9 - DETAIL
SCALE: 1" = 1'-0"



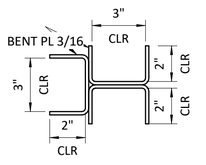
SIDE VIEW

11 - GRATING SUPPORT DETAIL
SCALE: 3" = 1'-0"



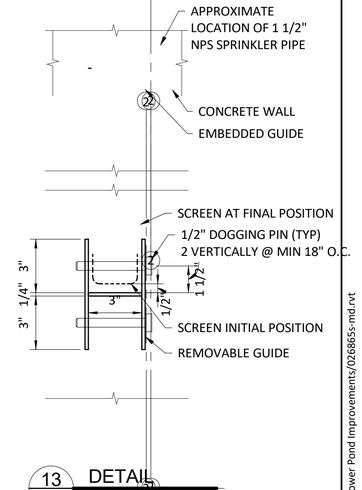
10 - DETAIL
SCALE: 1" = 1'-0"

GUIDE SOCKET DETAIL
SCALE: 3" = 1'-0"



12 - DETAIL
SCALE: 3" = 1'-0"

14 - LIFTING EYE DETAIL
SCALE: 1" = 1'-0"



13 - DETAIL
SCALE: 3" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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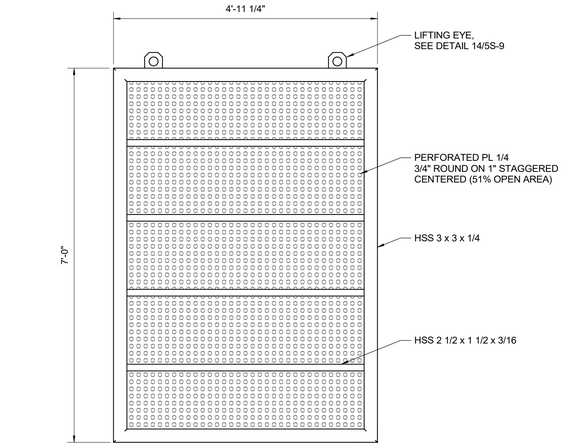
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER POND, RACEWAYS VEE TRAP AND SCREEN GUIDE DETAILS

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
5S-16

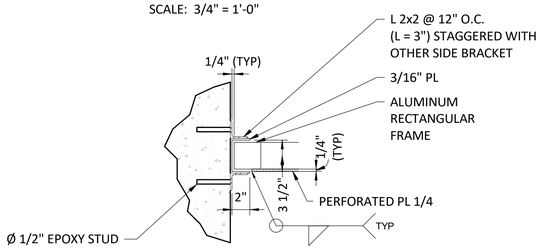
Exhibit E.1 Page 83 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:06:30 PM



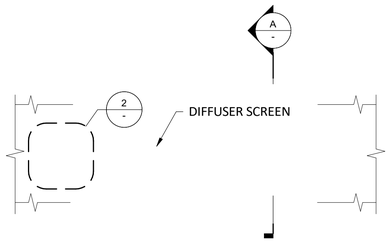
DIFFUSER SCREEN

SCALE: 3/4" = 1'-0"



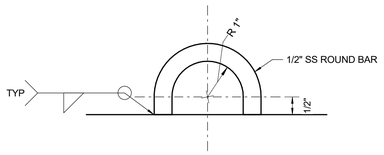
2 - DETAIL

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



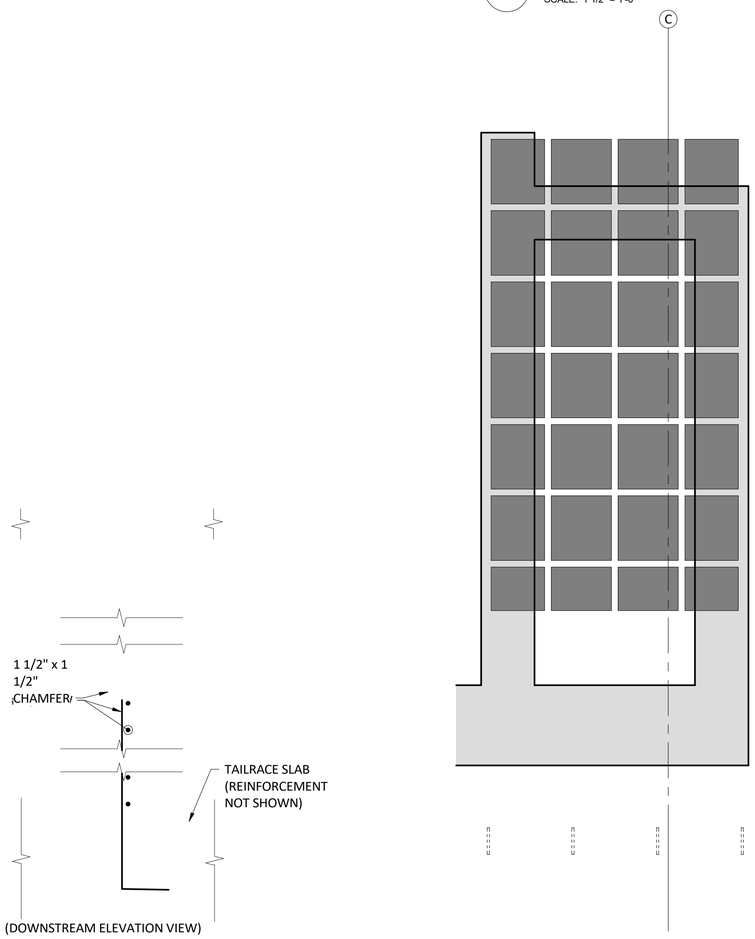
1 - DIFFUSER SCREEN PLAN

SCALE: 3/4" = 1'-0"



6 - LIFTING RING DETAIL

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

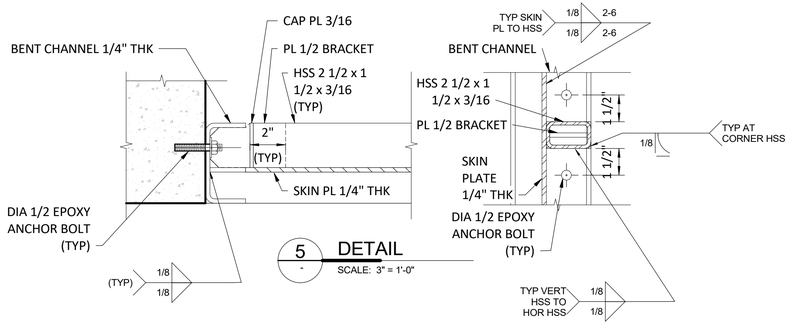


A - SECTION

SCALE: 3/4" = 1'-0"

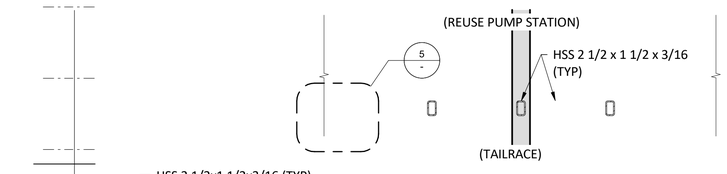
3 - REUSE PUMP STATION SCREEN

SCALE: 3/4" = 1'-0"



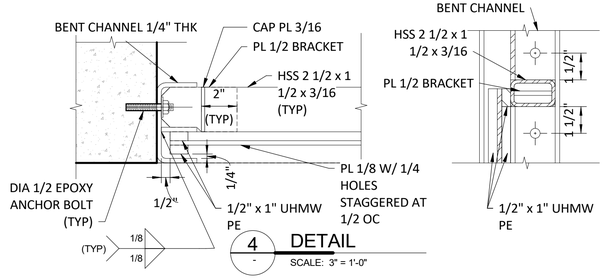
5 - DETAIL

SCALE: 3" = 1'-0"



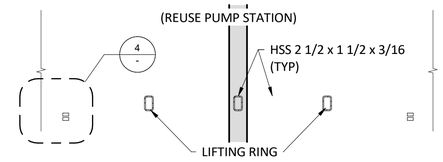
B - SECTION

SCALE: 3/4" = 1'-0"



4 - DETAIL

SCALE: 3" = 1'-0"



D - SECTION

SCALE: 1" = 1'-0"

(SECTION ROTATED 180 DEGREES)

C - SECTION

SCALE: 1" = 1'-0"

(SECTION ROTATED 180 DEGREES)

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

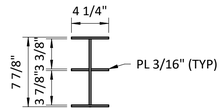
LOWER POND AND RACEWAYS VEE-TRAP DETAILS

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

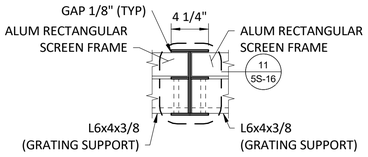
DRAWING
5S-17

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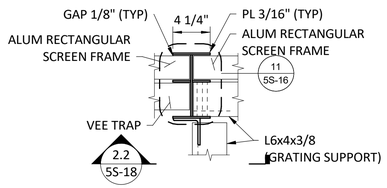
SCREEN SCHEDULE (CONSOLIDATED)						
SCREEN ID	LOCATION	TYPE	DETAIL	LENGTH (IN)	HEIGHT (IN)	QTY
5-SC-6, 7	SOUTH LOWER RACEWAY U/S	PERFORATED PLATE	ALUMINUM	89 3/8"	67 3/8"	2
5-SC-8, 9, 10	SOUTH LOWER RACEWAY D/S	PERFORATED PLATE	ALUMINUM	59 1/16"	103 3/4"	3
5-SC-15, 23	LOWER REARING POND D/S	PERFORATED PLATE	ALUMINUM	29 1/16"	126 9/16"	2
5-SC-16 THUR 22	LOWER REARING POND D/S	PERFORATED PLATE	ALUMINUM	58 13/16"	126 9/16"	7
5-SC-24	TAILRACE ENTRANCE	PERFORATED PLATE	STAINLESS STEEL	59 1/4"	84"	1
5-SC-25	REUSE PUMP STATION ENTRANCE	PERFORATED PLATE	STEEL	72"	156"	1



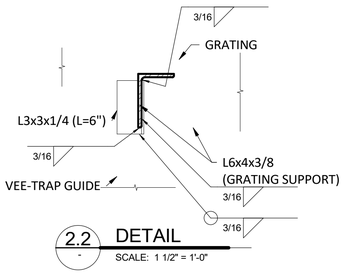
2.1 - DETAIL
SCALE: 1 1/2" = 1'-0"



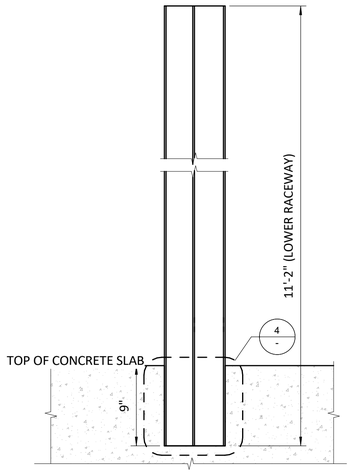
PLAN VIEW
GRATING SUPPORT ON BOTH SIDES OF GUIDE



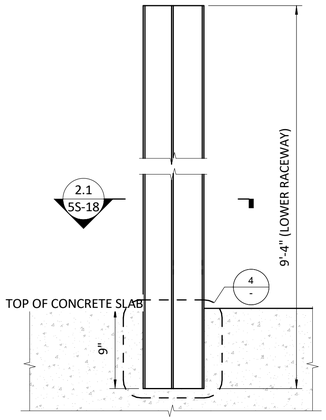
PLAN VIEW
GRATING AND VEE TRAP SUPPORTS ON EACH SIDE OF GUIDE



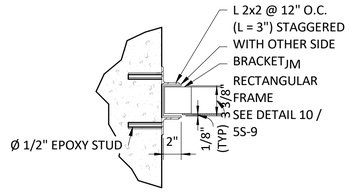
2.2 - DETAIL
SCALE: 1 1/2" = 1'-0"



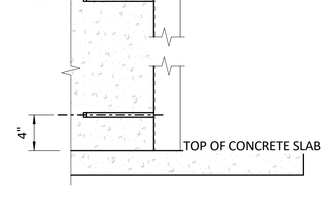
SIDE VIEW



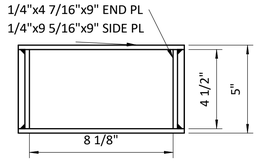
SIDE VIEW



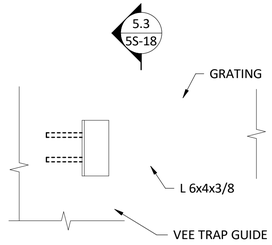
TOP VIEW



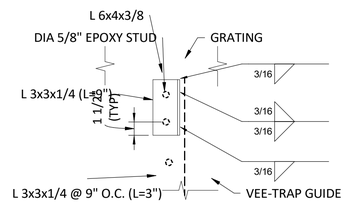
SIDE VIEW



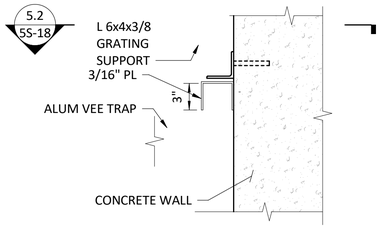
TOP VIEW



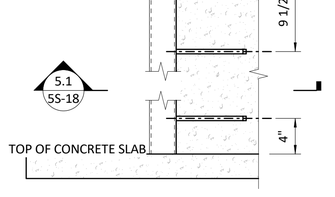
5.2 - DETAIL
SCALE: 1 1/2" = 1'-0"



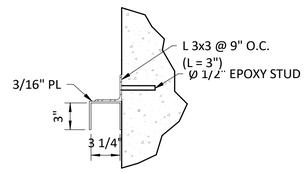
5.3 - DETAIL
SCALE: 1 1/2" = 1'-0"



TOP VIEW



SIDE VIEW



1 - SCREEN GUIDE DETAIL
SCALE: 1 1/2" = 1'-0"

2 - SCREEN/VEE TRAP GUIDE DETAIL
SCALE: 1 1/2" = 1'-0"

3 - WALL GUIDE DETAIL
SCALE: 1 1/2" = 1'-0"

4 - GUIDE SOCKET DETAIL
SCALE: 3" = 1'-0"

5 - VEE TRAP GUIDE DETAIL
SCALE: 1 1/2" = 1'-0"

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

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

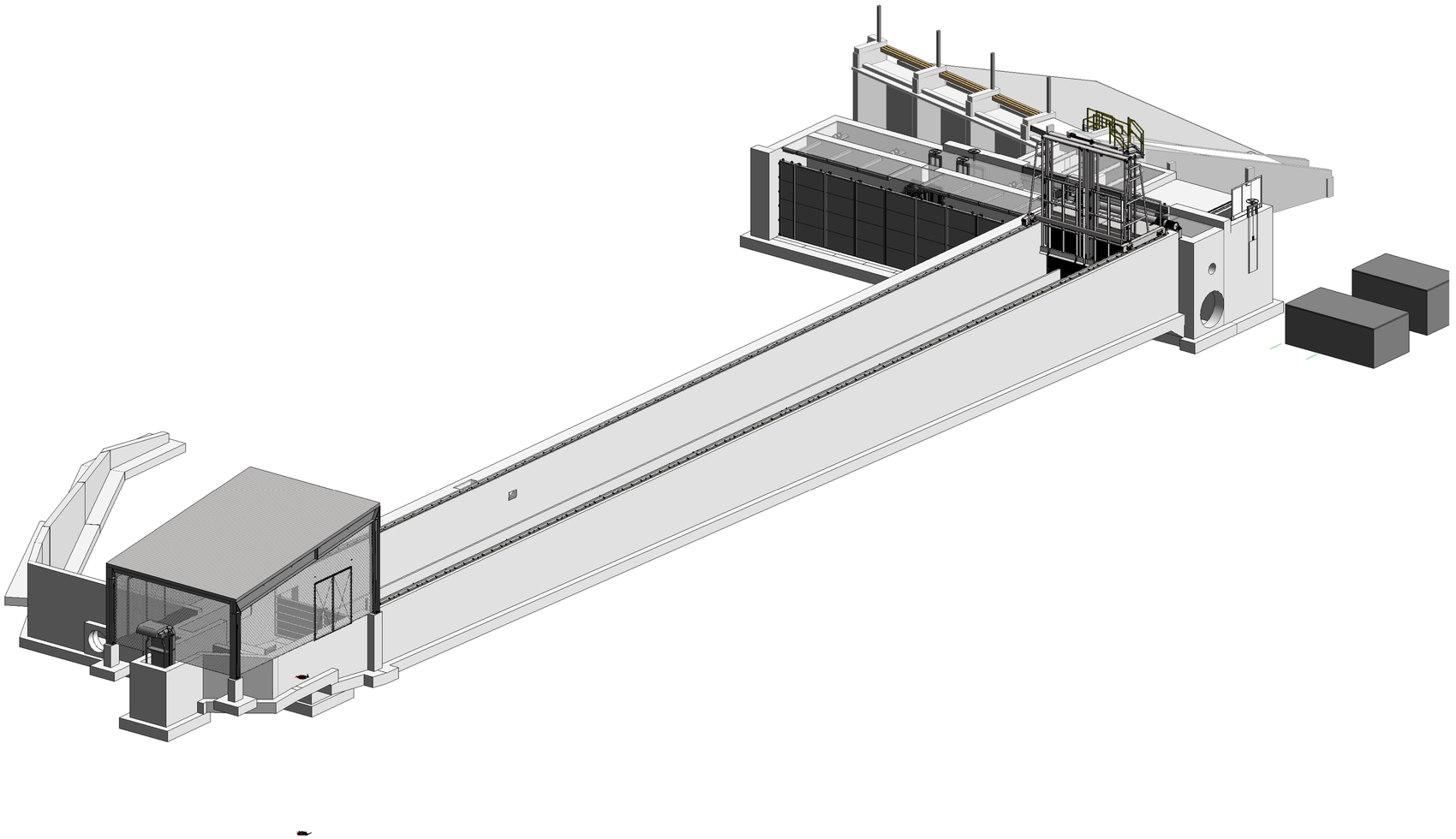
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER POND, RACEWAYS VEE TRAP AND SCREEN GUIDE DETAILS

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
5S-18

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
6/29/2026 1:06:29 PM



LOWER POND AND RACEWAYS ISOMETRIC

SCALE:

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER POND AND RACEWAYS ISOMETRIC VIEWS

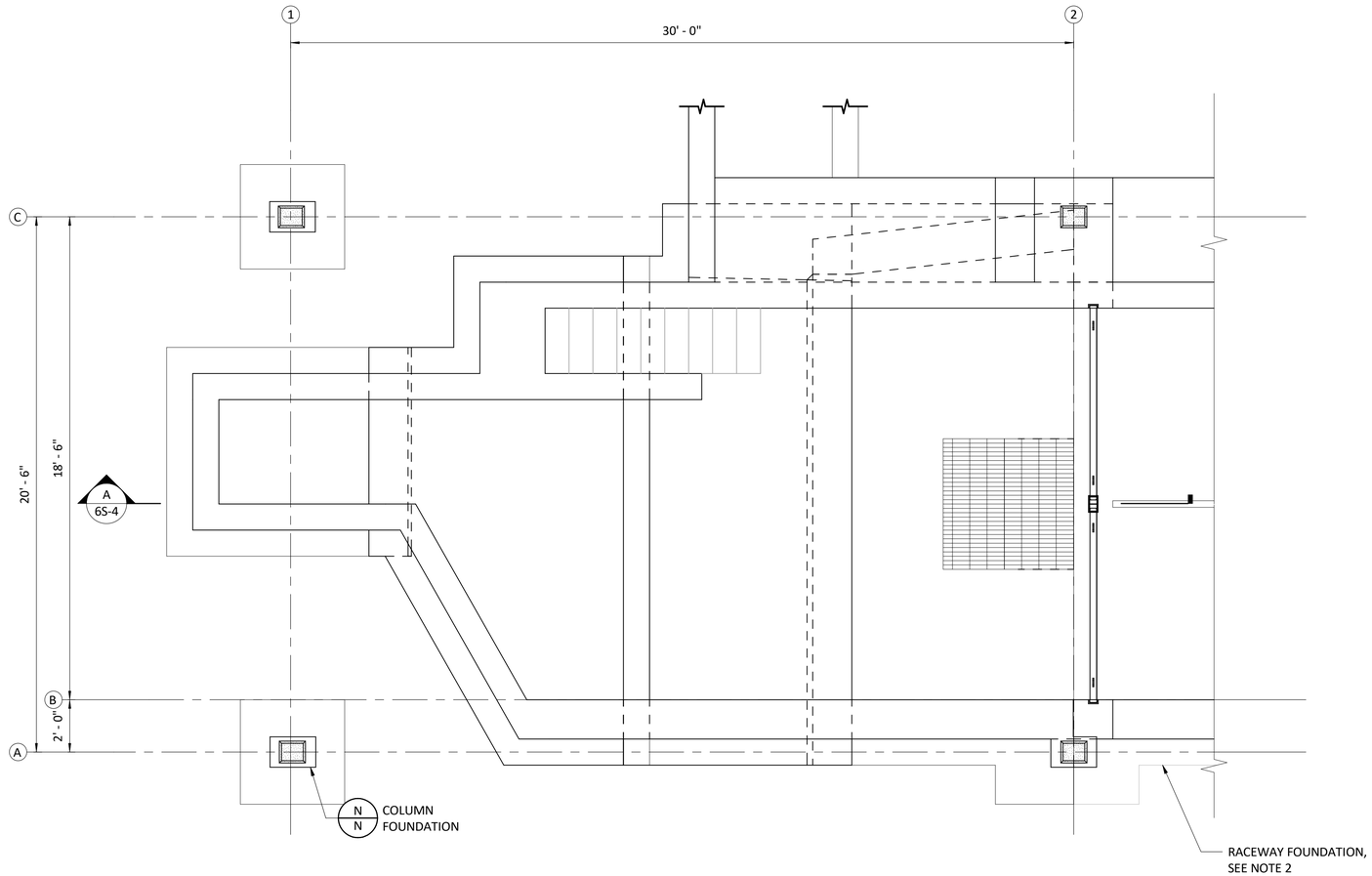
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
5S-21

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
6/29/2026 1:06:43 PM

GENERAL SHEET NOTES

1. FOUNDATION DETAILS FOR THE PEMB ARE PRELIMINARY AND MUST BE VERIFIED PRIOR TO CONSTRUCTION BASED ON PEMB MANUFACTURER DIMENSIONS AND COLUMN REACTIONS.
2. FOR ADDITIONAL FOUNDATION DIMENSIONS AND DETAILS, INCLUDING RACEWAY FOUNDATION, SEE 5S DRAWINGS.



FOUNDATION PLAN

SCALE: 3/8" = 1'-0"

0 2' 4'

N

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Exhibit E.1 Page 87 of 161

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SPAWNING SHED FOUNDATION PLAN

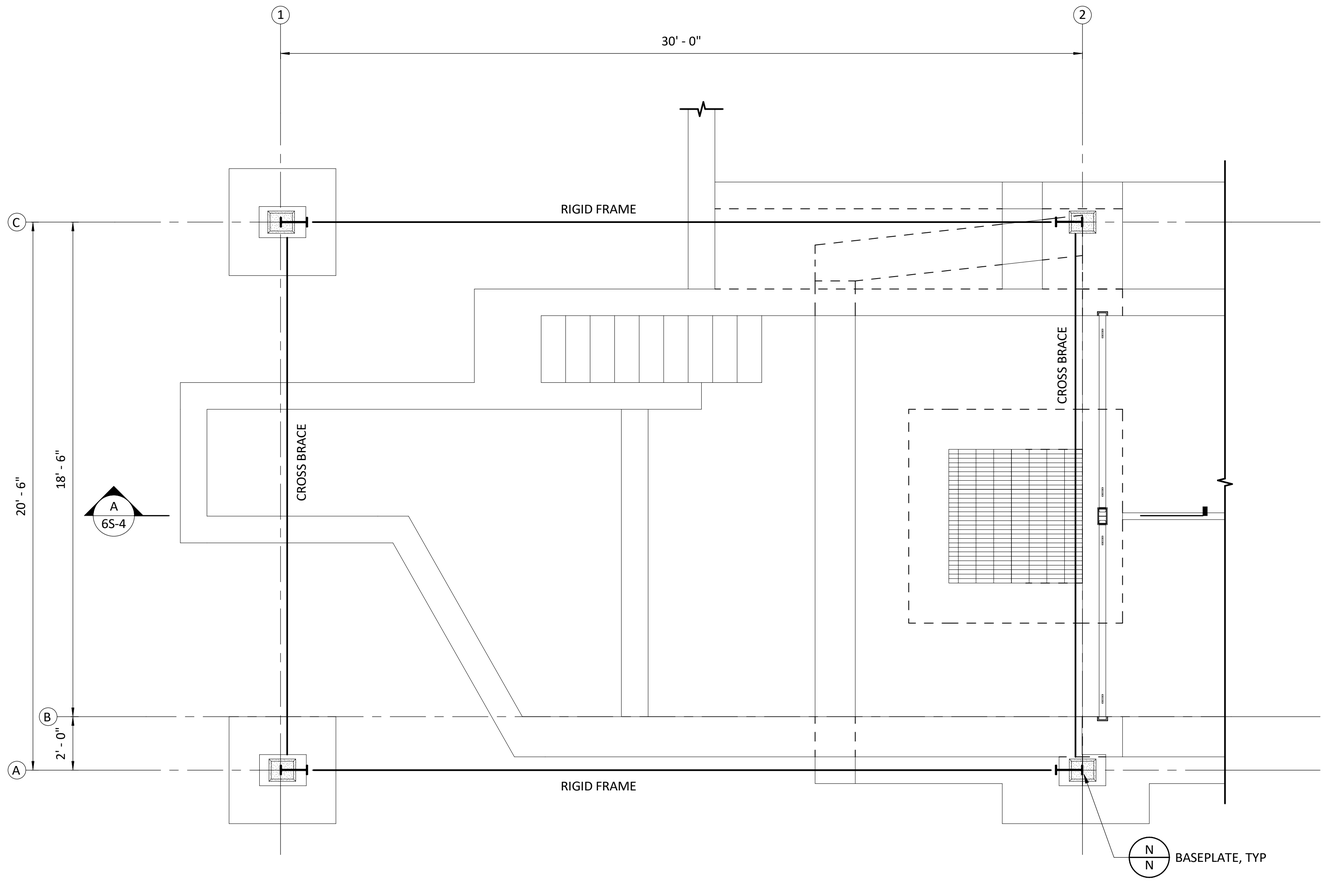
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
6S-1

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
6/29/2026 1:16:33 PM

GENERAL SHEET NOTES

1. FOR GENERAL STRUCTURAL NOTES SEE DRAWINGS GS-1 AND GS-2.
2. FOUNDATION DETAILS FOR THE PEMB ARE PRELIMINARY AND MUST BE VERIFIED PRIOR TO CONSTRUCTION BASED ON PEMB MANUFACTURER DIMENSIONS AND COLUMN REACTIONS.
3. FOR ADDITIONAL FOUNDATION DEMINSIONS AND DETAILS, INCLUDING RACEWAY FOUNDATION, SEE 5S DRAWINGS.



FRAMING PLAN

SCALE: 3/8" = 1'-0"

0 2' 4'

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SPAWNING SHED FRAMING PLAN

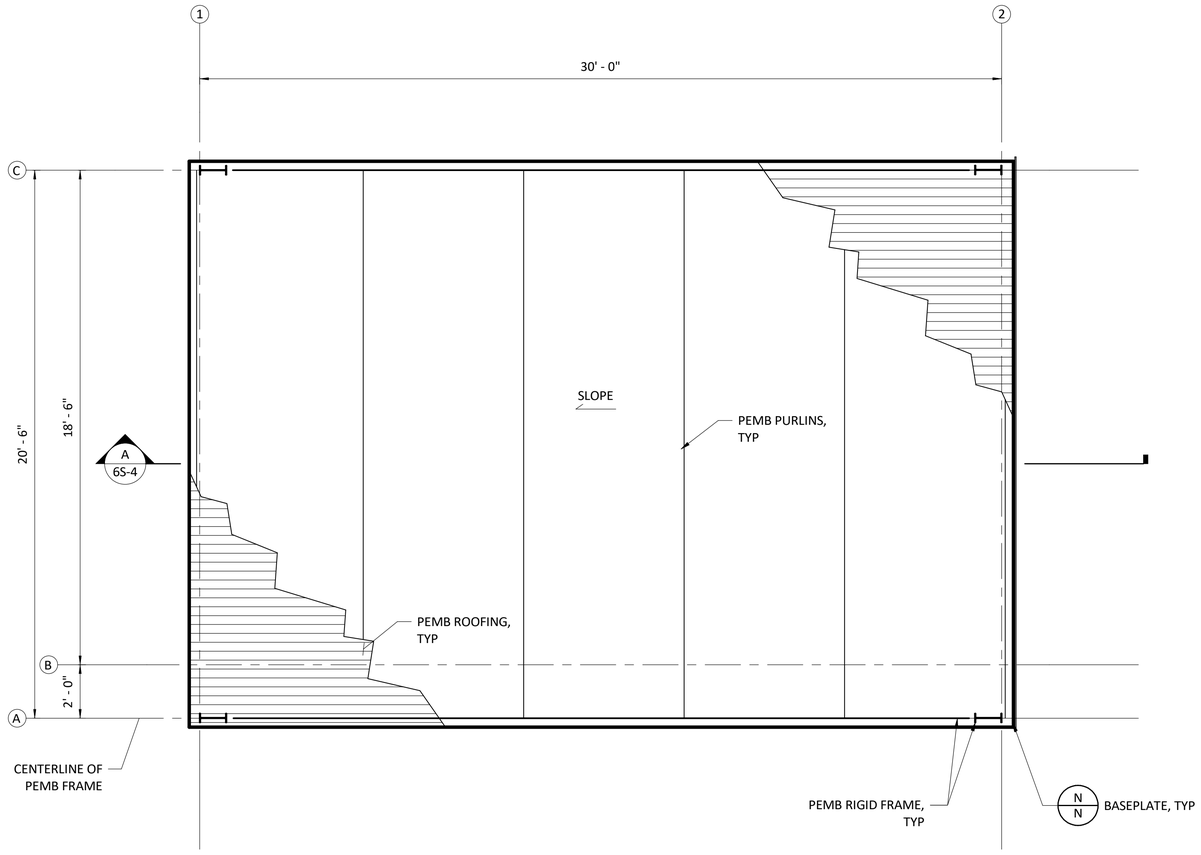
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
6S-2

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:16:33 PM

GENERAL SHEET NOTES

1. FOR GENERAL STRUCTURAL NOTES SEE DRAWINGS GS-1 AND GS-2.
2. PEMB MANUFACTURER TO VERIFY DIMENSIONS NOTED.



FRAMING PLAN

SCALE: 3/8" = 1'-0"

0 2' 4'

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SPAWNING SHED ROOF PLAN

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

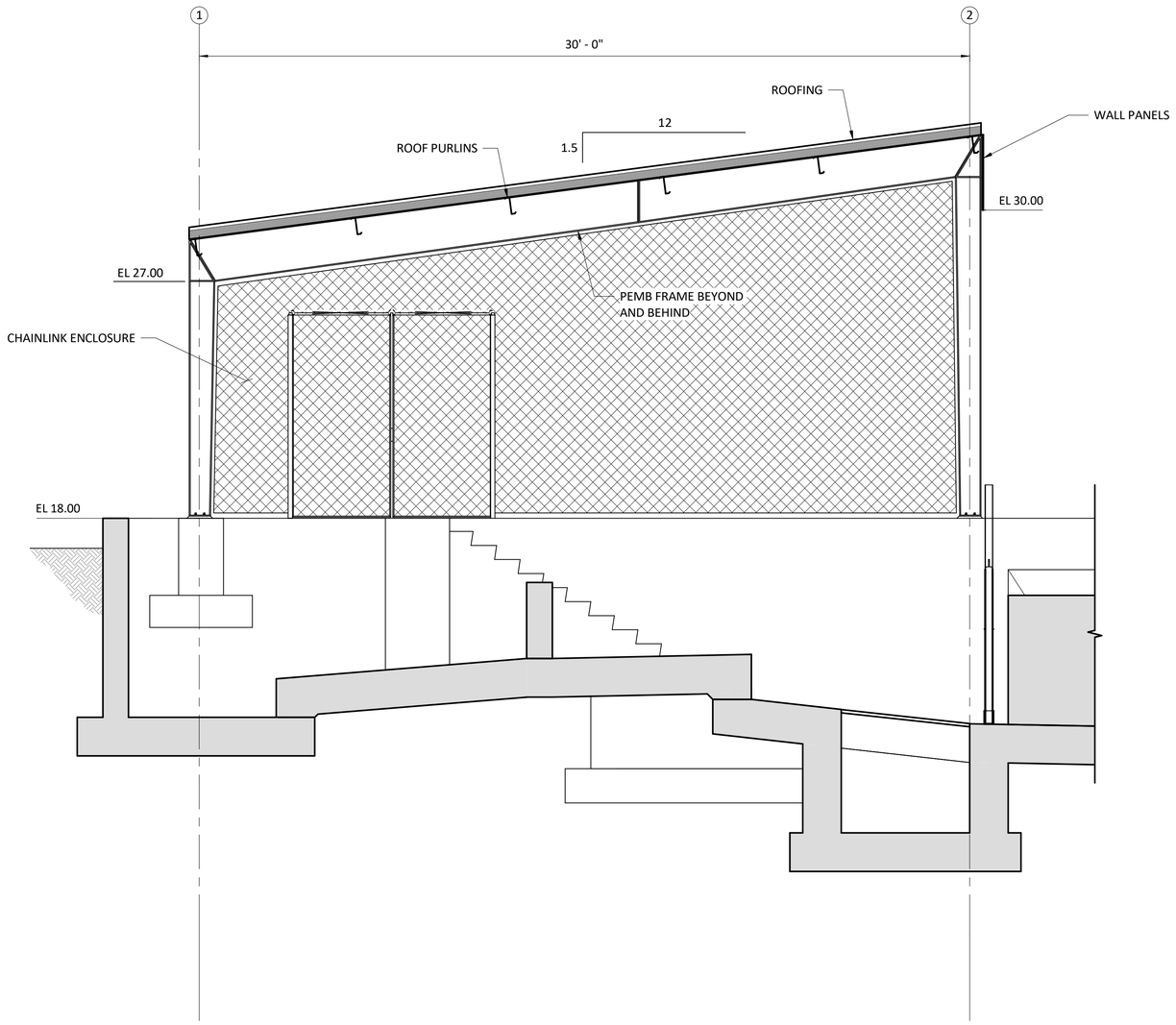
DRAWING 6S-3

Exhibit E.1 Page 89 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
6/29/2026 1:16:33 PM

GENERAL SHEET NOTES

1. FOR GENERAL STRUCTURAL NOTES SEE DRAWINGS GS-1 AND GS-2.
2. PEMB MANUFACTURER TO VERIFY DIMENSIONS NOTED.



A / - SECTION

SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SPAWNING SHED SECTIONS

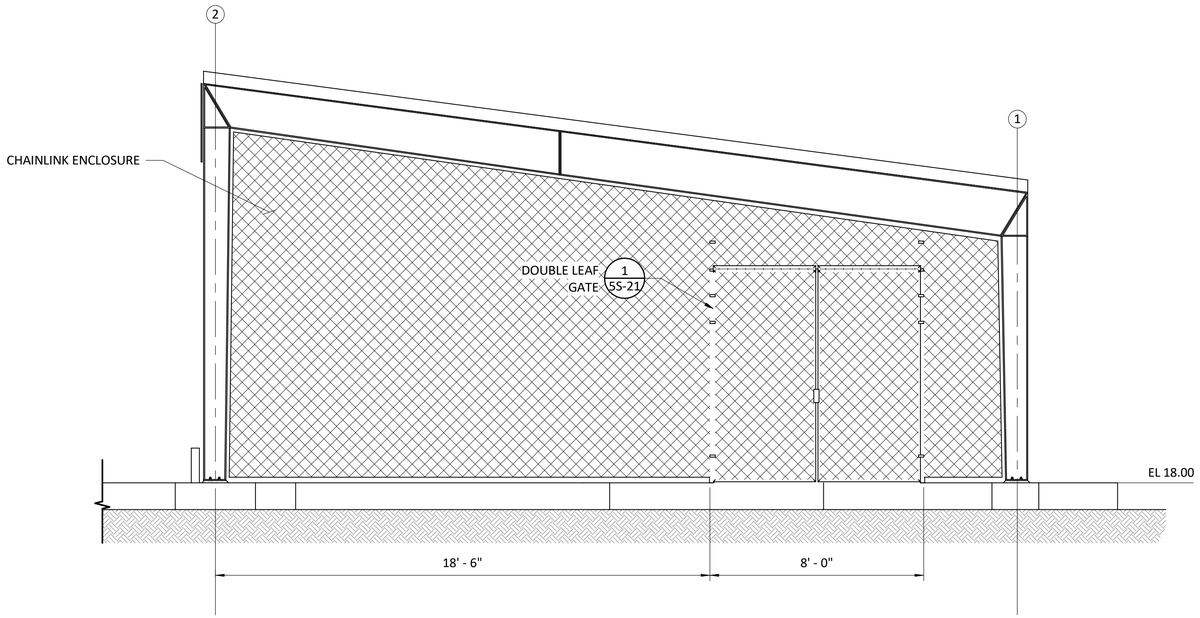
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
6S-4

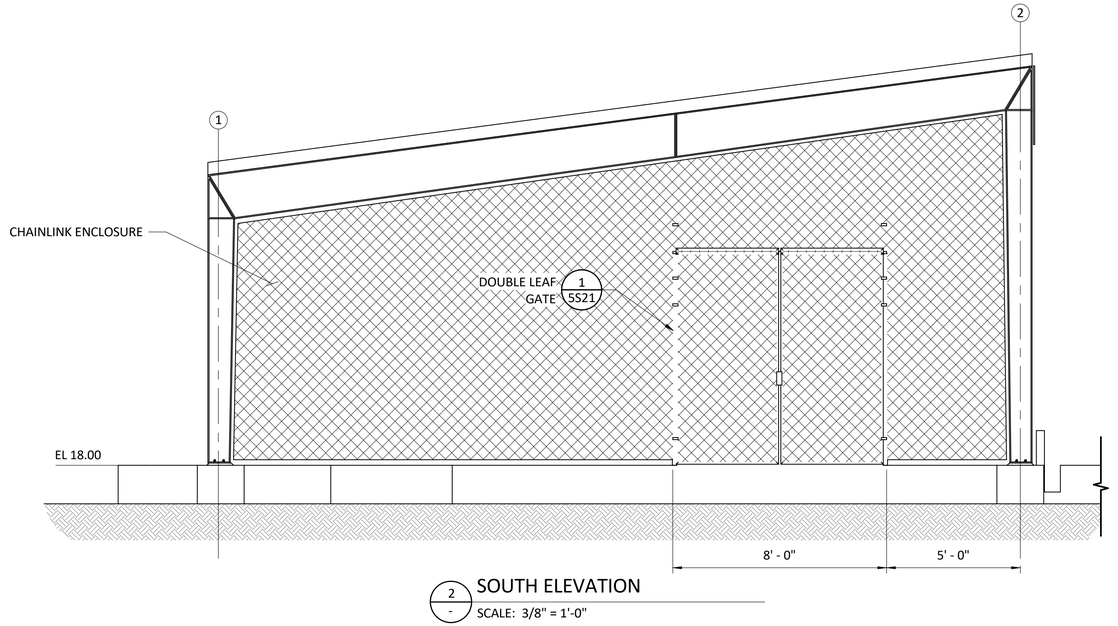
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
6/29/2026 1:16:34 PM

GENERAL SHEET NOTES

1. FOR GENERAL STRUCTURAL NOTES SEE DRAWINGS GS-1 AND GS-2.
2. PEMB MANUFACTURER TO VERIFY DIMENSIONS NOTED.



1 - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



2 - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
SPAWNING SHED ELEVATIONS 1

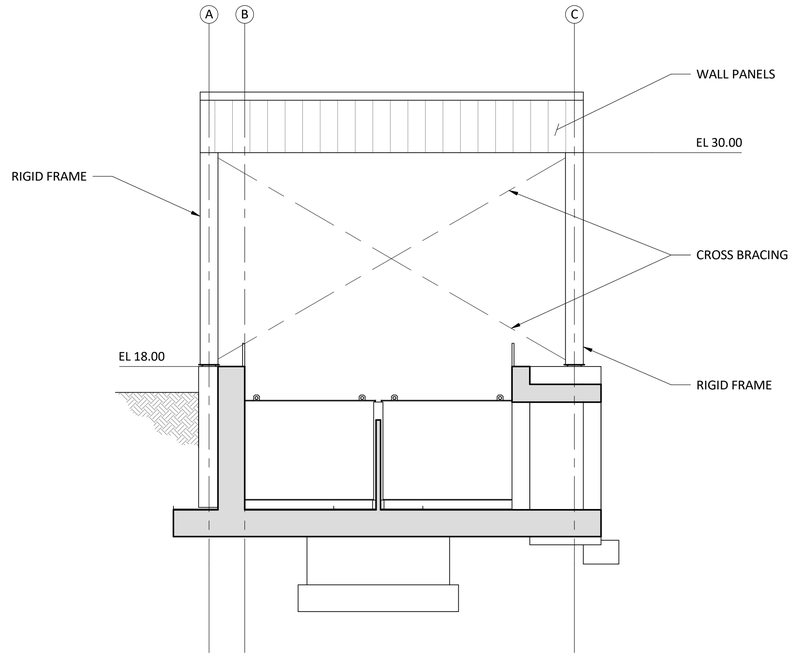
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
6S-5

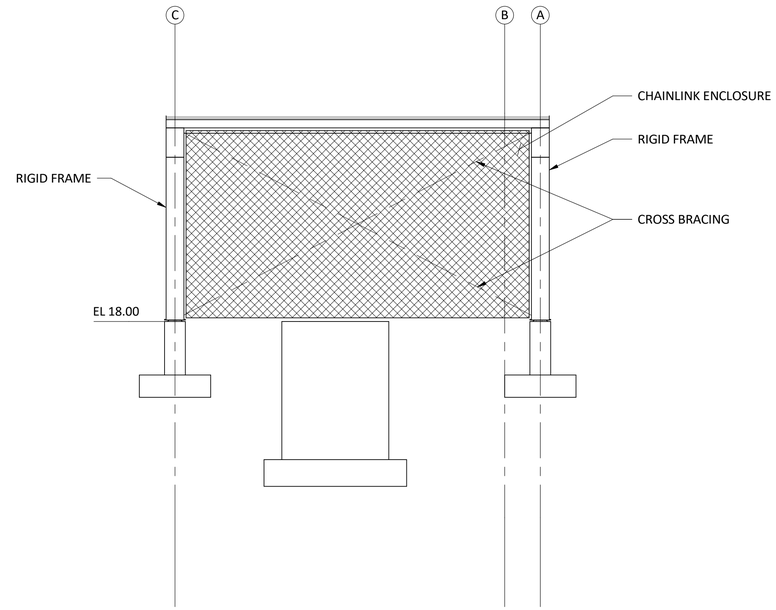
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:16:34 PM

GENERAL SHEET NOTES

1. FOR GENERAL STRUCTURAL NOTES SEE DRAWINGS GS-1 AND GS-2.
2. PEMB MANUFACTURER TO VERIFY DIMENSIONS NOTED.



2 - EAST ELEVATION
SCALE: 1/4" = 1'-0"



1 - WEST ELEVATION
SCALE: 1/4" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

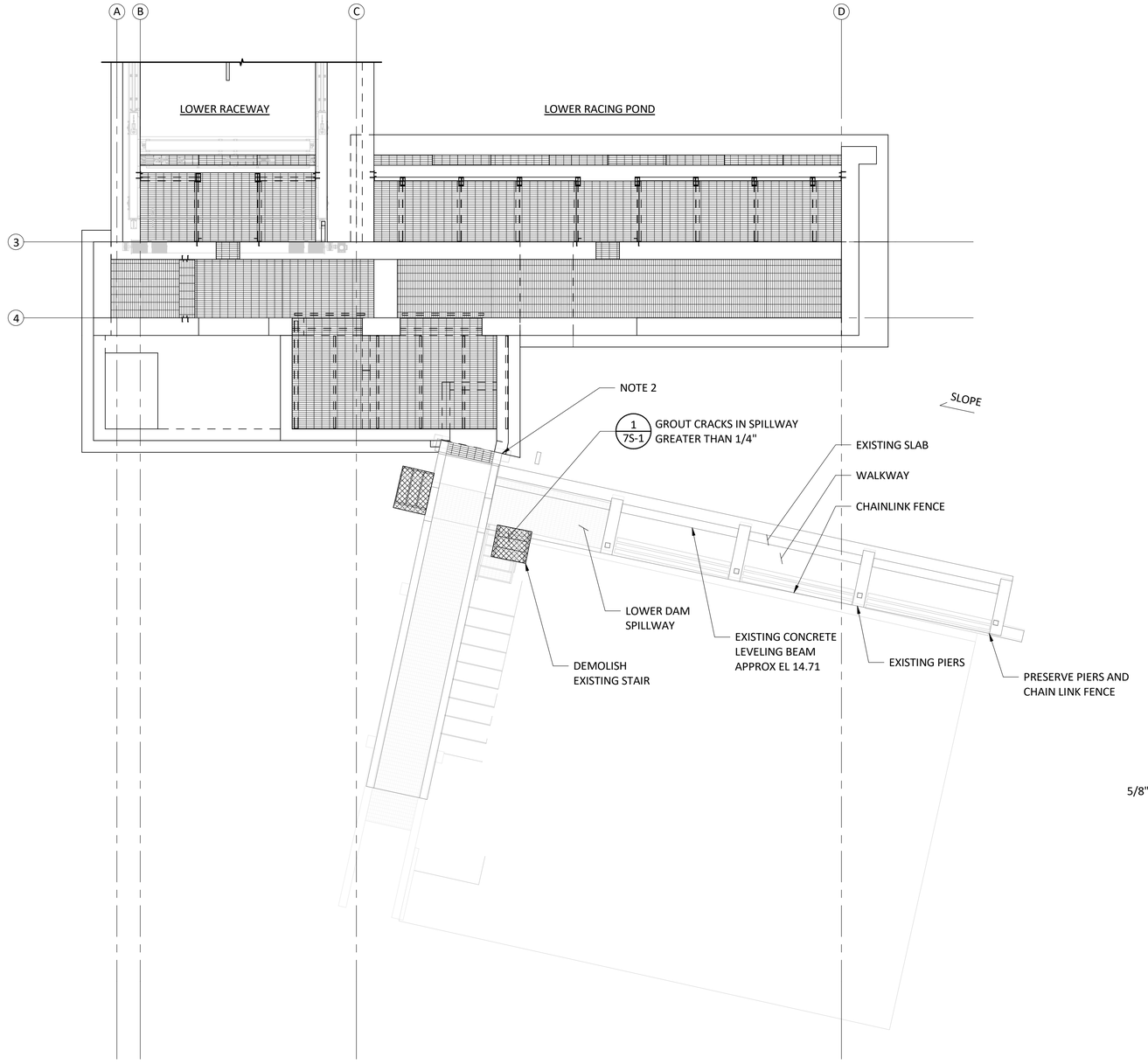
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
SPAWNING SHED ELEVATIONS 2

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
6S-6

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
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FISH LADDER MODIFICATION PLAN

SCALE: 3/16" = 1'-0"

0 4' 8'

GENERAL SHEET NOTES

GENERAL NOTES

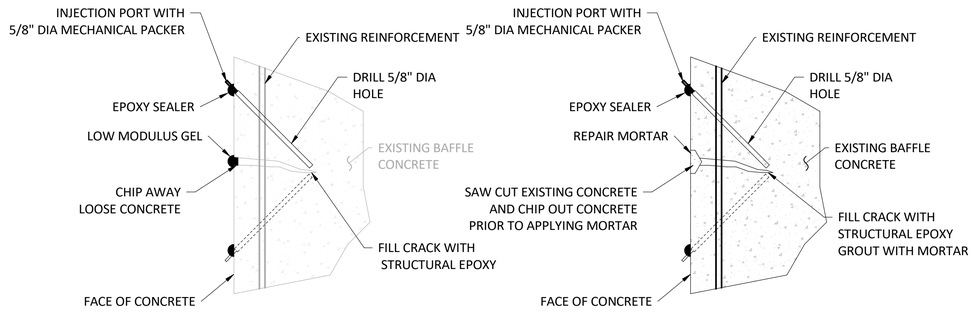
1. REPAIR CRACKS WITH WITDTH GREATER THAN 1/4-INCH. FOR ADDITIONAL INFORMATION SEE SPECIFICATION 03 01 30 CONCRETE REPAIR AND REHABILITATION.
2. FOR CONNECTION AND INTERFACE WITH FACILITY 5, SEE 5S DRAWINGS.



LOWER DAM SPILLWAY CRACK LOCATION



CRACK ENLARGED PHOTO



FOR CRACKS WITHOUT SPALLING OR WITH SPALLING LESS THAN 1/2" WIDTH AT SURFACE — FOR CRACKS WITH SPALLING GREATER THAN 1/2" WIDTH AT SURFACE

1 / - TYPICAL CRACK REPAIR DETAIL

SCALE: 3" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FISH LADDER MODIFICATIONS PLAN

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

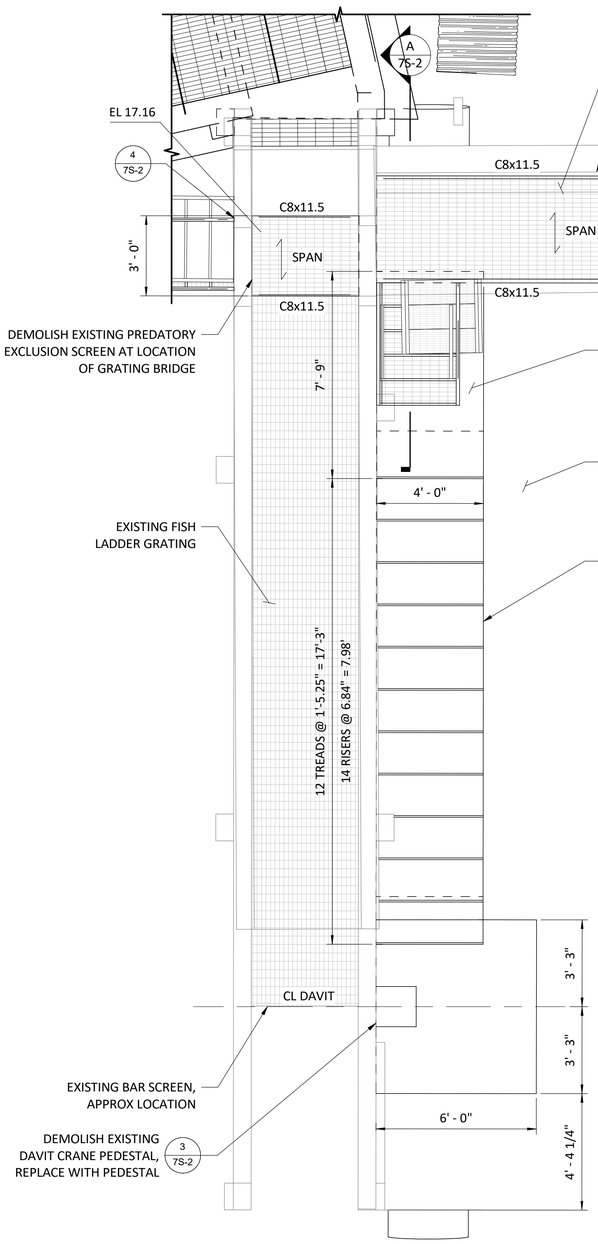
DRAWING 7S-1

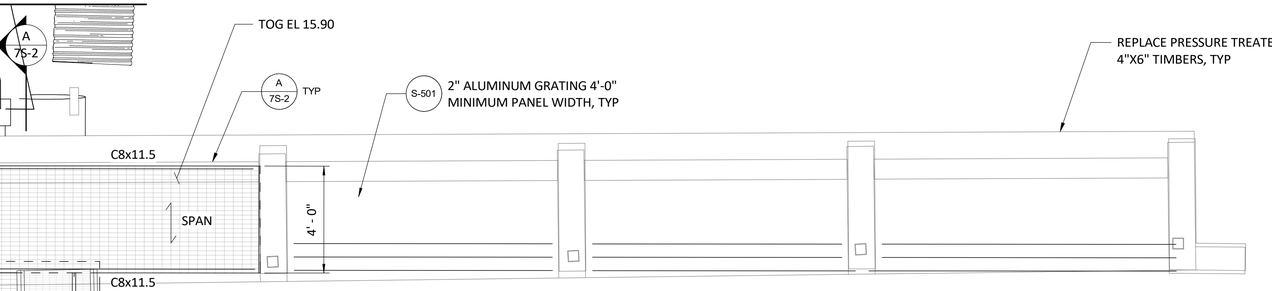
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0268655-md.rvt
6/29/2026 1:16:38 PM

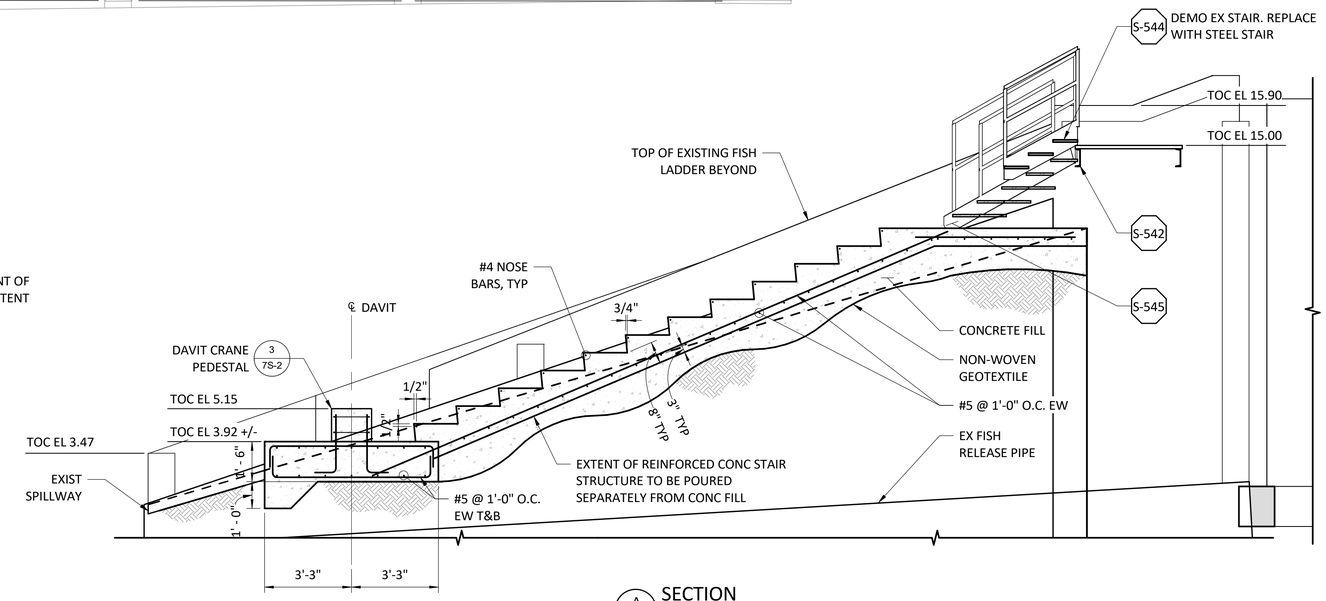
GENERAL SHEET NOTES

GENERAL NOTES

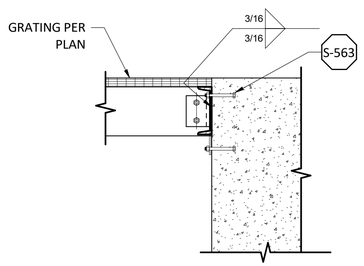
1. FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION, FABRICATION, OR SHOP DRAWING SUBMITTAL.
2. LANDING AT THE BOTTOM OF THE STEPS SHALL PROVIDE, AT MINIMUM, A 3'-0" WORKING SPACE CENTERED AT THE DAVIT CRANE.
3. HYDROPHOBIC WATERSTOP AND SEALANT AROUND PERIMETER OF STAIRS.
4. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATIONS.

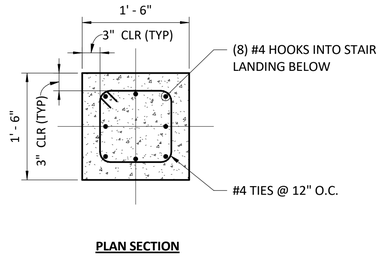


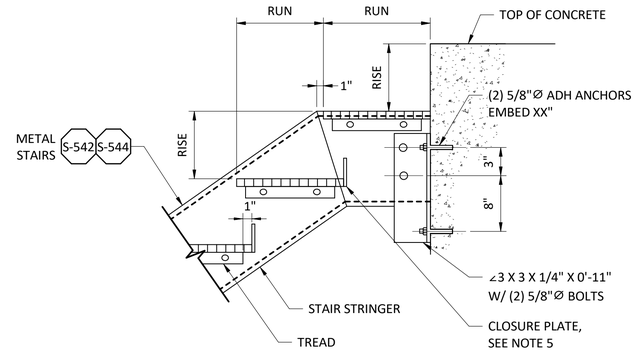




A 7S-2 SECTION
SCALE: 3/8" = 1'-0"







1 FISH LADDER MODIFICATION PLAN
SCALE: 3/8" = 1'-0"
0 2' 4'

3 DETAIL
SCALE: 1" = 1'-0"

2 SECTION - DAVIT CRANE PEDESTAL
SCALE: 1" = 1'-0"

4 STAIR TOP TO CONC WALL CONNECTION
SCALE: 1" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
FISH LADDER, SPILLWAY ACCESS IMPROVEMENTS PLAN, SECTIONS, AND DETAILS

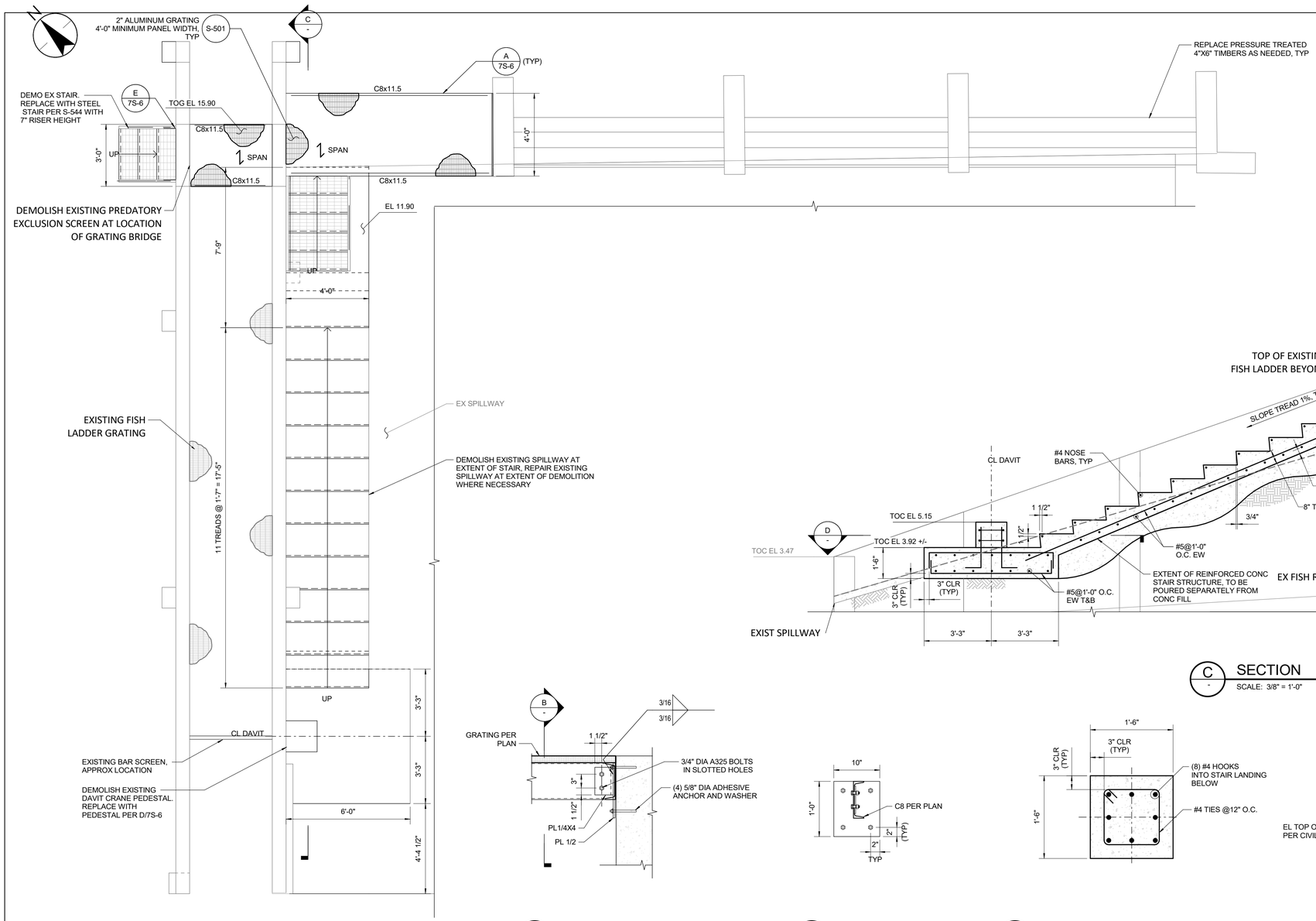
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
7S-2

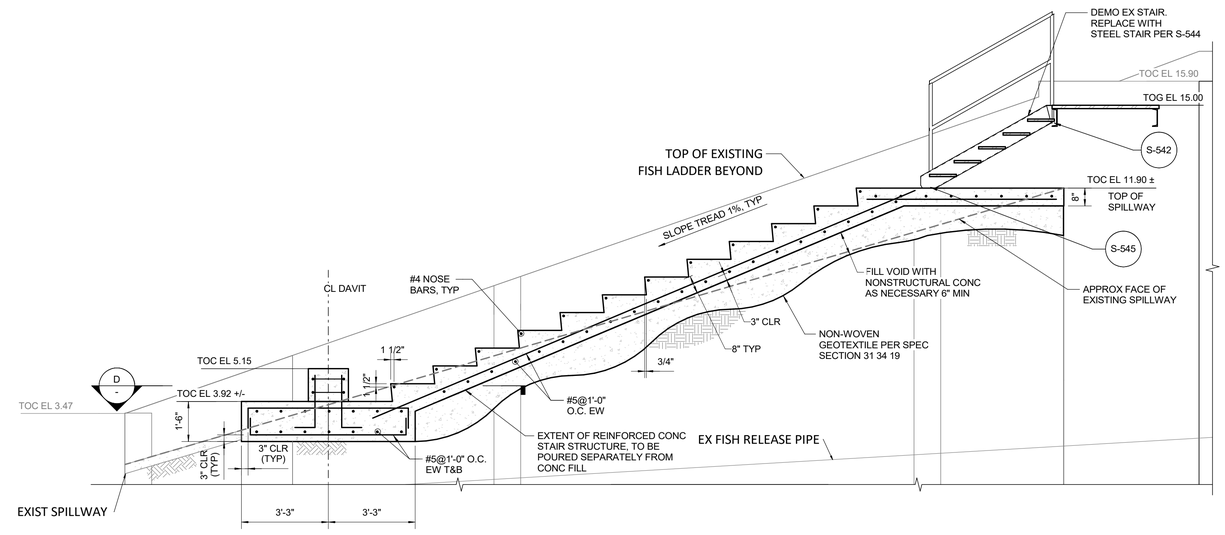
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865s-md.rvt
6/29/2026 1:16:38 PM

GENERAL SHEET NOTES

1. ALUMINUM SAFETY GRATING SHALL BE GRATING PACIFIC GRIP STRUT 8-DIAMOND PLANK, OR EQUAL.
2. LANDING AT THE BOTTOM OF THE STEPS SHALL PROVIDE, AT MINIMUM, A 3'-0" WORKING SPACE CENTERED AT THE DAVIT CRANE.
3. HYDROPHOBIC WATERSTOP AND SEALANT AROUND PERIMETER OF STAIRS.
4. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATIONS.



FISH LADDER PLAN
SCALE: 3/8" = 1'-0"

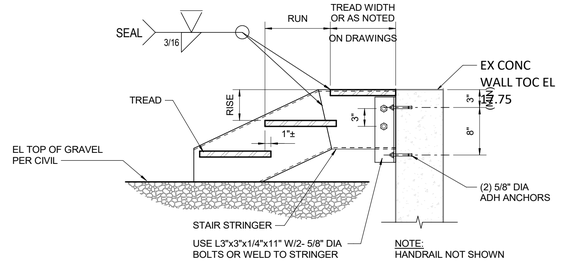


C - SECTION
SCALE: 3/8" = 1'-0"

A - DETAIL
SCALE: 1" = 1'-0"

B - SECTION
SCALE: 1" = 1'-0"

D - SECTION - DAVIT CRANE PEDESTAL
SCALE: 1" = 1'-0"



E - STAIR TOP TO CONC WALL CONNECTION
SCALE: 1" = 1'-0"

REV	DATE	BY	DESCRIPTION

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
FISH LADDER AND SPILLWAY ACCESS IMPROVEMENTS PLAN, SECTIONS AND DETAILS

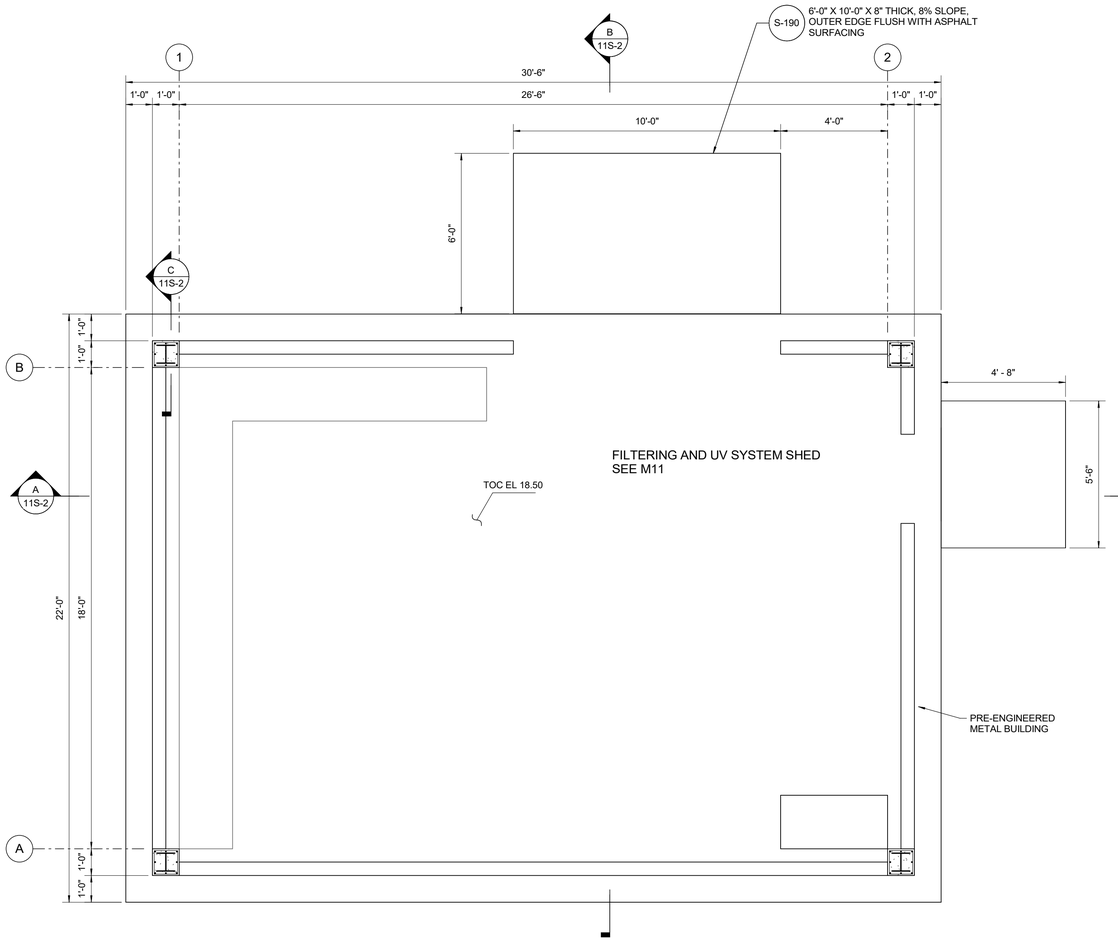
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE Issue Date

DRAWING
7S-4

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/FISH LADDER.rvt

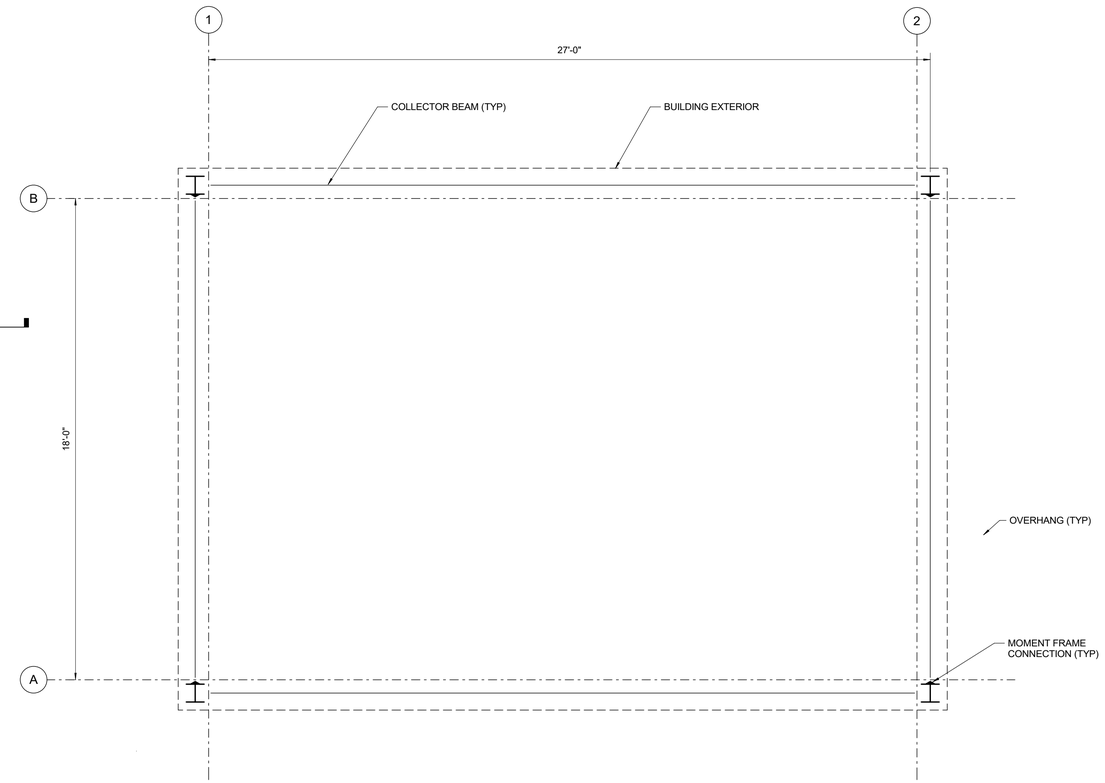
GENERAL SHEET NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SPECIFICATIONS PRIOR THE CONTRUCTION BEGINS.



FOUNDATION PLAN

SCALE: 3/8" = 1'-0"



ROOF FRAMING PLAN

SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

WATER TREATMENT SHED METAL BUILDING

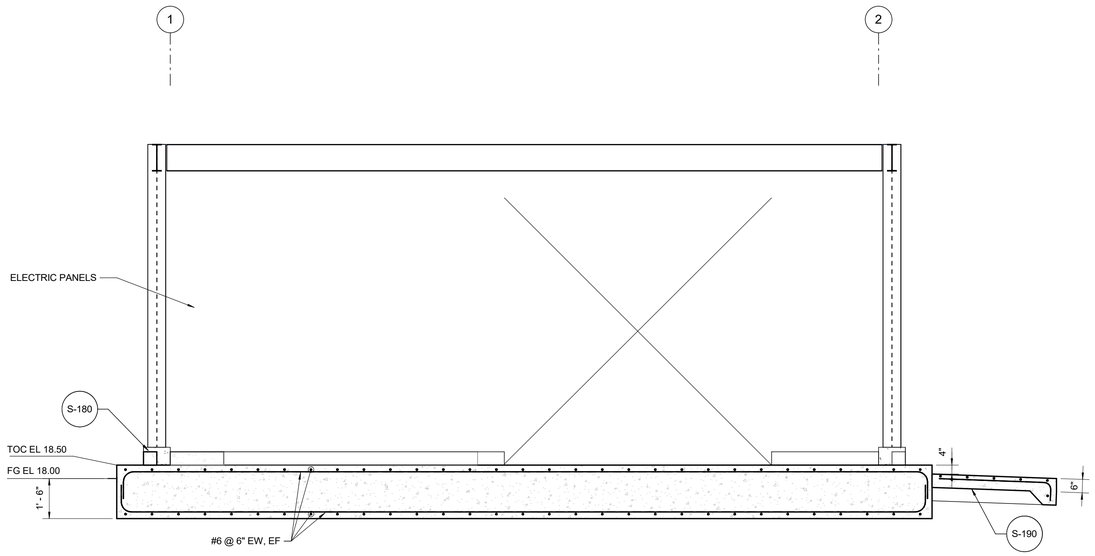
DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
11S-1

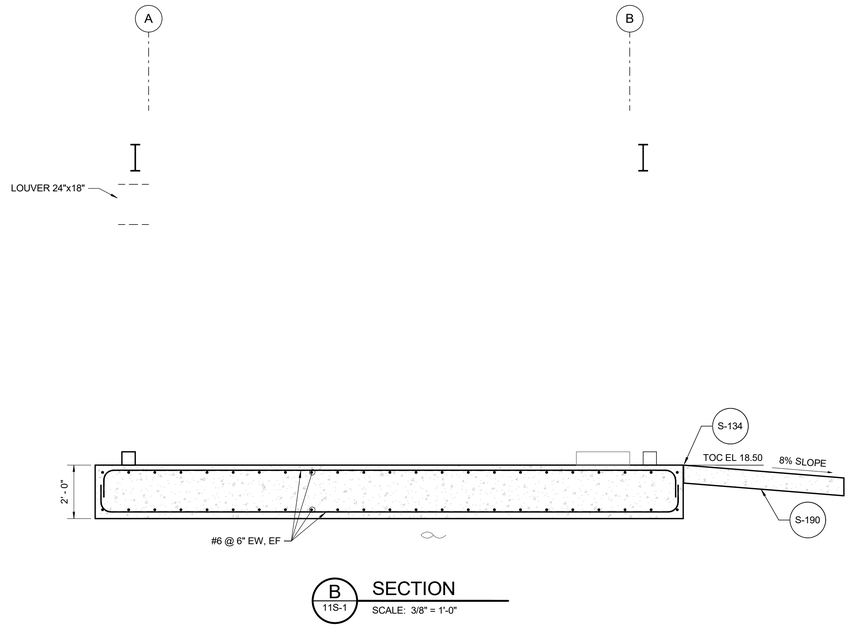
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/02686111-md.rvt

GENERAL SHEET NOTES

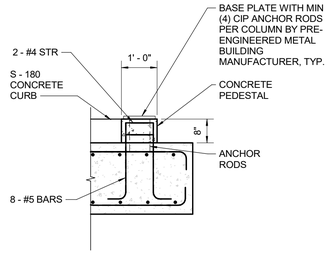
1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SPECIFICATIONS PRIOR THE CONTRUCTION BEGINS.



A 11S-1 SECTION
SCALE: 3/8" = 1'-0"



B 11S-1 SECTION
SCALE: 3/8" = 1'-0"



C 11S-1 SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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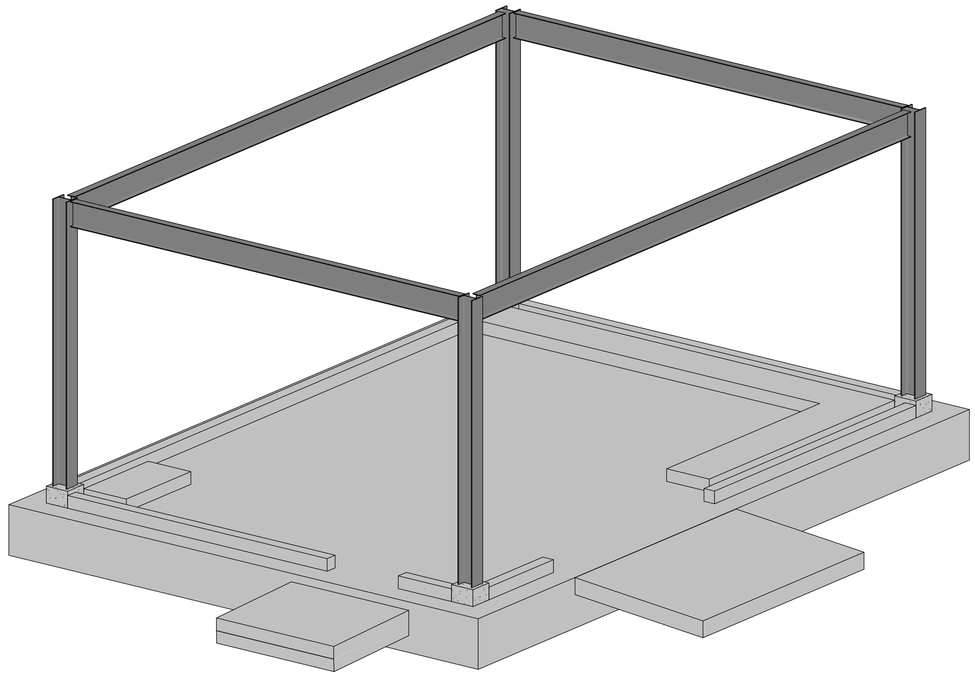
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
FILTRATION AND UV SYSTEM SECTIONS

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
11S-2

Exhibit E.1 Page 97 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/02686115-md.rvt



ISOMETRIC VIEW

SCALE:

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

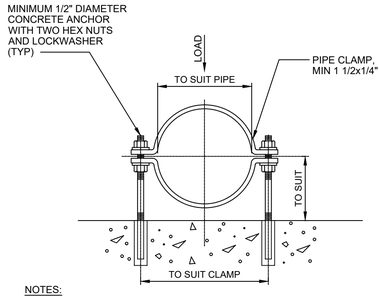
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FILTRATION UV AND FILTRATION ISOMETRIC VIEWS

DESIGNED AG
DRAWN STN
CHECKED ST
ISSUED DATE 06/29/2026

DRAWING
11S-3

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/02686115-md.rvt



NOTES:

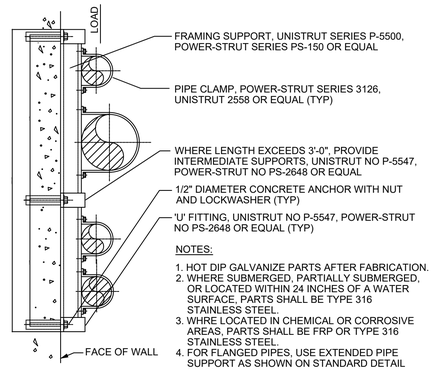
1. HOT DIP GALVANIZE PARTS AFTER FABRICATION.
2. WHERE SUBMERGED, PARTIALLY SUBMERGED, OR LOCATED WITHIN 24 INCHES OF A WATER SURFACE, PARTS SHALL BE TYPE 316 STAINLESS STEEL.
3. WHERE LOCATED IN CHEMICAL OR CORROSIVE AREAS, PARTS SHALL BE FRP OR TYPE 316 STAINLESS STEEL.

D-101

PIPE CLAMP

(FOR PIPE 4" DIAMETER AND SMALLER)

REV 010119



NOTES:

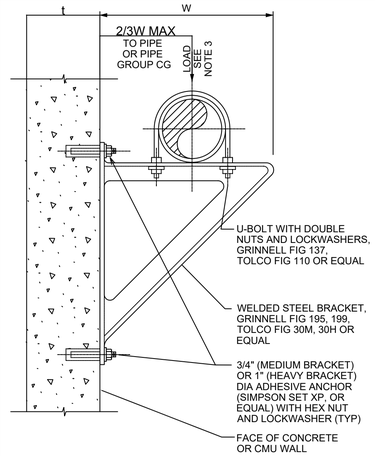
1. HOT DIP GALVANIZE PARTS AFTER FABRICATION.
2. WHERE SUBMERGED, PARTIALLY SUBMERGED, OR LOCATED WITHIN 24 INCHES OF A WATER SURFACE, PARTS SHALL BE TYPE 316 STAINLESS STEEL.
3. WHRE LOCATED IN CHEMICAL OR CORROSIVE AREAS, PARTS SHALL BE FRP OR TYPE 316 STAINLESS STEEL.
4. FOR FLANGED PIPES, USE EXTENDED PIPE SUPPORT AS SHOWN ON STANDARD DETAIL M-103.

FLUSH MOUNTED PIPE SUPPORT

(FOR PIPE 4" DIAMETER AND SMALLER)

REV 091515

D-102



WALL TYPE	ANVIL FIG	TOLCO FIG	THREADED ROD DIA	MIN EDGE DISTANCE	EMBED	WALL THICK MIN (t)	Sds≤0.5 MAX LOAD (LB)	NOTES
CONC	195	30M	3/4"	12"	7.5"	10"	1500	
CONC	199 NO 2-5	30H NO 3-6	1"	12"	9.5"	12"	2100	
CMU	195	30M	3/4"	12"	6 3/4"	8"	900	NO ANCHOR PLACED WITHIN 1/2" OF HEAD JOINT

NOTES :

1. HOT DIP GALVANIZE BRACKET AND PARTS AFTER FABRICATION, UNO. PROVIDE 316 SS BRACKET AND PARTS IN SUBMERGED OR CORROSIVE CONDITIONS (VERIFY CHEMICAL COMPATIBILITY WITH STAINLESS STEEL).
2. THIS PIPE BRACKET IS LIMITED TO A SINGLE PIPE OF 16" DIAMETER OR A GROUP OF PIPES 16" WIDE, INCLUSIVE.
3. REFER TO TABLE FOR MAXIMUM ALLOWED SERVICE LOAD ON EACH BRACKET. IN NO CASE, SHALL THE LOAD ON THE BRACKET EXCEED THE LOADS SHOWN IN THE TABLE.
4. PROVIDE ANCHORS AT MANUFACTURER'S BRACKET HOLE LOCATIONS.
5. FOR TOLCO 30H BRACKETS WITH 1 1/8"Ø HOLES, PROVIDE 1/4" THICK PLATE WASHER WITH STANDARD 1 1/16"Ø HOLE FOR 1"Ø THREADED ROD. WELD PLATE WASHER ALL AROUND WITH 3/16" FILLET WELD.
6. DEVIATIONS FROM THIS DETAIL MUST BE VERIFIED WITH CALCULATIONS AND SUBMITTED TO ENGINEER FOR REVIEW.

SEISMIC AND WIND COMPLIANT DESIGN CRITERIA

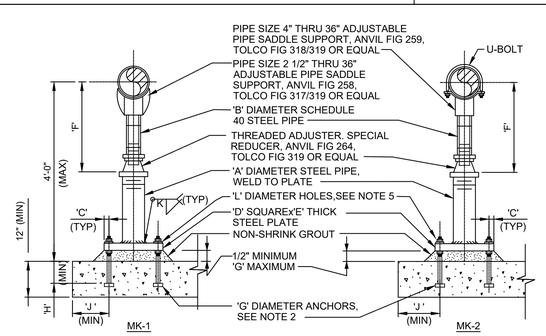
1. THE SUPPORT IS ADEQUATE FOR SEISMIC RESPONSE COEFFICIENT (SDS) GIVEN IN THE TABLE. SEISMIC FORCE ASSUMPTIONS (ASCE 7-10, EQN 13.3-1): ap=2.5, Rp=3.0, Ωo=2.5, Ip=1.0, z/h=1.0.
2. THE SUPPORT, DESIGNED FOR SEISMIC LOADS ARE ALSO ADEQUATE FOR A DESIGN WIND SPEED (Vult) OF UP TO 180 MPH WITH A MAXIMUM HEIGHT ABOVE GRADE OF 40'. WIND FORCE ASSUMPTIONS: EXPOSURE CATEGORY C, Kzt=1.0, Kz=1.04, Kd=0.85, G=0.85, Gcp=1.4,Cf=1.1 (DESIGNED PER ASCE 7-10 SECTION 29.5 - OTHER STRUCTURES).

PIPE BRACKET

(FOR PIPE 16" DIAMETER AND SMALLER)

REV 102717

D-104



NOMINAL PIPE DIAMETER	'A' (SCH 40 UNO)	'B'	'C'	'D'	'E'	'F' (APPROX) (MINIMUM)	'F' (APPROX) (MAXIMUM)	'G'	'H'	'J'	'K'	'L'	Sds≤0.5 LOAD MAX (LBS)	'M'
2 1/2	* 2 / 2 1/2	1 1/2	1	8	7/16	7	11 1/2	1/2	4	6	3/8	13/16	1400	500
3	* 2 / 2 1/2	1 1/2	1	8	7/16	7 5/16	11 13/16	1/2	4	6	3/8	13/16	1400	500
3 1/2	* 2 / 2 1/2	1 1/2	1	8	7/16	7 9/16	12 1/16	1/2	4	6	3/8	13/16	1400	500
4	3	* 2 1/2 / 3	1 1/4	10	5/8	10 1/4	14 3/4	5/8	5	8	7/16	1 1/16	2650	1100
6	3	* 2 1/2 / 3	1 1/4	10	5/8	11 9/16	16 1/16	5/8	5	8	7/16	1 1/16	2650	1100
8	3	* 2 1/2 / 3	1 1/4	10	5/8	13 9/16	18 1/16	5/8	5	8	7/16	1 1/16	2650	1100
10	3	* 2 1/2 / 3	1 1/4	10	5/8	14 5/8	19 1/8	5/8	5	8	7/16	1 1/16	2650	1100
12	3	* 2 1/2 / 3	1 1/4	10	5/8	15 5/8	20 1/8	5/8	5	8	7/16	1 1/16	2650	1100
14	4	3	1 3/8	12	3/4	18 7/8	23 3/8	3/4	7	10.5	1/2	1 5/16	4200	2200
16	4	3	1 3/8	12	3/4	19 7/8	24 3/8	3/4	7	10.5	1/2	1 5/16	4200	2200
18	6 (SCH 80)	* 4 / 3 1/2	1 5/8	14	1 1/4	22 1/4	26 3/4	7/8	8	12	11/16	1 9/16	6050	2775
20	6 (SCH 80)	* 4 / 3 1/2	1 5/8	14	1 1/4	23 1/4	27 3/4	7/8	8	12	11/16	1 9/16	6050	2775
24	6 (SCH 80)	4	1 5/8	14	1 1/4	26 1/2	31	7/8	8	12	11/16	1 9/16	6050	2775
30	6 (SCH 80)	4	1 7/8	16	1 1/4	29 5/8	34 1/8	1	8	12	11/16	1 13/16	8150	3100
32	6 (SCH 80)	4	1 7/8	16	1 1/4	30 5/8	35 1/8	1	8	12	11/16	1 13/16	8150	3100
36	6 (SCH 80)	4	1 7/8	16	1 1/4	32 5/8	37 1/8	1	8	12	11/16	1 13/16	8150	3100

* SEE MANUFACTURER

NOTES:

1. HOT DIP GALVANIZE PARTS AFTER FABRICATION, UNO. PROVIDE 316 SS PARTS AND BOLTS IN SUBMERGED OR CORROSIVE CONDITIONS.
2. PROVIDE CAST-IN-PLACE HEAVY HEX HEAD ASTM F1554 GR 36 ANCHORS, UNO.
3. REFER TO TABLE FOR MAXIMUM ALLOWABLE SERVICE LOAD ON EACH SUPPORT.
4. USE MK-2, UNLESS OTHERWISE INDICATED.
5. FOR 3/4" ANCHORS AND LARGER, PROVIDE SQUARE WASHERS PER AISC MANUAL OF STEEL CONSTRUCTION TABLE 14-2 WITH STD HOLES WELDED TO PLATE WITH 3/16" FILLETS. USE 1 3/4" SQx3/16" THICK WASHERS FOR 5/8" ANCHORS.
6. IF ADHESIVE ANCHORS ARE USED (SIMPSON SET XP, OR EQUAL), USE REDUCED MAX LOADS IN COLUMN 'M'. OVERSIZED HOLES AND WASHERS ARE NOT REQUIRED.

SEISMIC AND WIND COMPLIANT DESIGN CRITERIA

1. THE SUPPORTS ARE ADEQUATE FOR SEISMIC RESPONSE COEFFICIENT (SDS) GIVEN IN THE TABLE. SEISMIC FORCE ASSUMPTIONS (ASCE 7-10, EQN 13.3-1): ap=2.5, Rp=6, Ωo=2.5, Ip=1.0, z/h=1.0.
2. THE SUPPORTS, DESIGNED FOR SEISMIC LOADS, ARE ALSO ADEQUATE FOR A DESIGN WIND SPEED (Vult) OF UP TO 165 MPH WITH A MAXIMUM HEIGHT ABOVE GRADE OF 40'. WIND FORCE ASSUMPTIONS: EXPOSURE CATEGORY C, Kzt=1.0, Kz=1.04, Kd=0.95, G=0.85, Cf=1.2 (DESIGNED PER ASCE 7-10 SECTION 29.5 - OTHER STRUCTURES).

D-108

ADJ PIPE SUPPORT W OR W/O 'U' BOLT

(FOR PIPE 36" DIAMETER AND SMALLER)

REV 010119

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

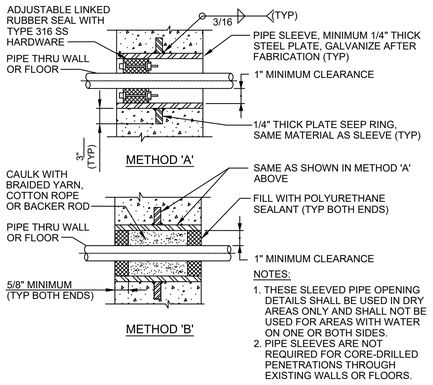
MECHANICAL STANDARD DETAILS 1

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING

GM-1

C:\Users\MeganTracy\DC\ACCDocs\McMillen Inc\26-017 Tulalip Lower Pond Improvements\Project Files\Drawings\26-017_TLP STANDARD DETAILS_07-MEC.dwg

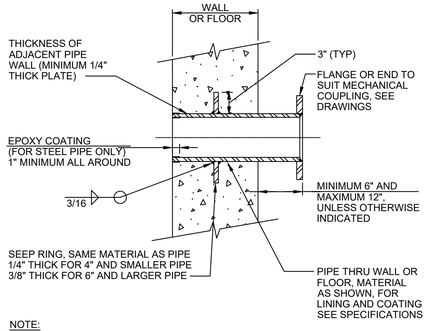


NOTES:

1. THESE SLEEVED PIPE OPENING DETAILS SHALL BE USED IN DRY AREAS ONLY AND SHALL NOT BE USED FOR AREAS WITH WATER ON ONE OR BOTH SIDES.
2. PIPE SLEEVES ARE NOT REQUIRED FOR CORE-DRILLED PENETRATIONS THROUGH EXISTING WALLS OR FLOORS.

D-111 SLEEVED PIPE OPENING

REV 010119

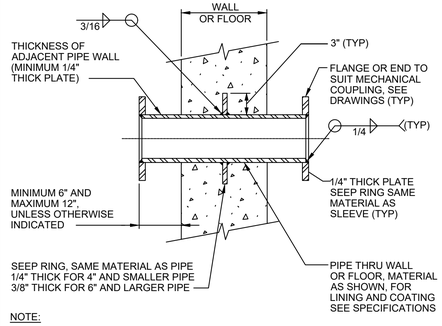


NOTE:

1. SEE STRUCTURAL DRAWINGS FOR WALL THICKNESS.

D-112 FABRICATED PIPE THIMBLE

REV 010119



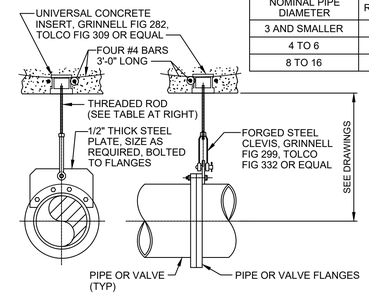
NOTE:

1. SEE STRUCTURAL DRAWINGS FOR WALL THICKNESS.

D-113 FABRICATED PIPE THIMBLE

REV 010119

DIMENSIONS IN INCHES	
NOMINAL PIPE DIAMETER	ROD DIAMETER
3 AND SMALLER	1/2
4 TO 6	3/4
8 TO 16	1



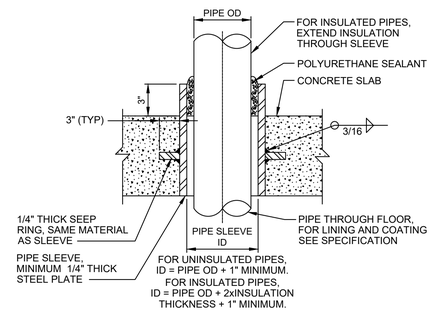
NOTES:

1. HOT DIP GALVANIZE PARTS AFTER FABRICATION.
2. WHERE LOCATED IN CHEMICAL OR CORROSIVE AREAS, PARTS SHALL BE FRP OR TYPE 316 STAINLESS STEEL.

D-128 PIPE OR VALVE HANGER

(FOR PIPE OR VALVE 16" DIAMETER AND SMALLER)

REV 010119



NOTES:

1. HOT DIP GALVANIZE ALL PARTS AFTER FABRICATION.
2. THIS SLEEVED PIPE OPENING DETAIL SHALL BE USED IN DRY AREAS ONLY AND SHALL NOT BE USED FOR AREAS WITH WATER ON ONE OR BOTH SIDES.

D-130 FLOOR PIPE SLEEVE

REV 010119

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

MECHANICAL STANDARD DETAILS 2

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
PROJECT DATE 06/29/26

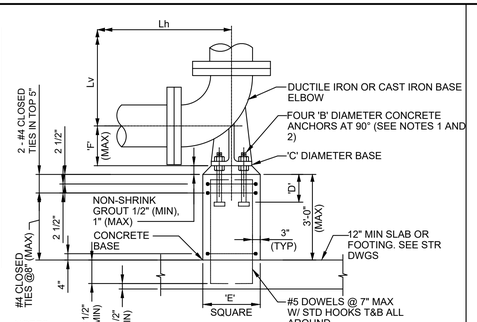
DRAWING
GM-2

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DIMENSIONS IN INCHES (UNO)						Sds ≤ 0.5	
NOMINAL PIPE DIAMETER	'B'	'C'	'D'	'E'	'F'	'L'	'L' ADH
4	5/8	6	4.5	12	5.5	33'	33'
6	5/8	7	4.5	12	7	38'	38'
8	5/8	9	7.5	12	8.38	43'	26'
10	5/8	9	7.5	12	9.75	43'	26'
12	3/4	11	9	16	11.25	47'	24'
14	3/4	11	9	16	12.5	47'	24'
16	3/4	11	9	16	13.75	52'	26'
18	3/4	13.5	9	18	15	52'	28'
20	3/4	13.5	9	21	16	48'	25'
24	3/4	13.5	9	27	18.5	32'	19'
30	7/8	16	10.5	30	23	32'	14'

SEISMIC AND WIND COMPLIANT - DESIGN CRITERIA

1. THE SUPPORTS ARE ADEQUATE FOR SEISMIC RESPONSE COEFFICIENT (SDS) GIVEN IN THE TABLE. SEISMIC FORCE ASSUMPTIONS (ASCE 7-10, EQ 13.3-1): ap=2.5, Rp=6, Ωo=2.5, Ip=1.0, z/h=1.0 FOR 4" TO 14" PIPE, z/h=0.4 FOR PIPES LARGER THAN 14".
2. THE SUPPORTS, DESIGNED FOR SEISMIC LOADS, ARE ALSO ADEQUATE FOR A DESIGN WIND SPEED (Vult) OF UP TO 200 MPH WITH A MAXIMUM HEIGHT ABOVE GRADE OF 40', EXCEPT FOR 4", 6" AND 24" PIPE DIAMETERS, WHICH ARE ADEQUATE FOR Vult OF UP TO 175 MPH. WIND FORCE ASSUMPTIONS: EXPOSURE CATEGORY C, Kzt=1.0, Kz=1.04, Kd=0.95, G=0.85, Cf=1.2 (DESIGNED PER ASCE 7 SECTION 29.5).



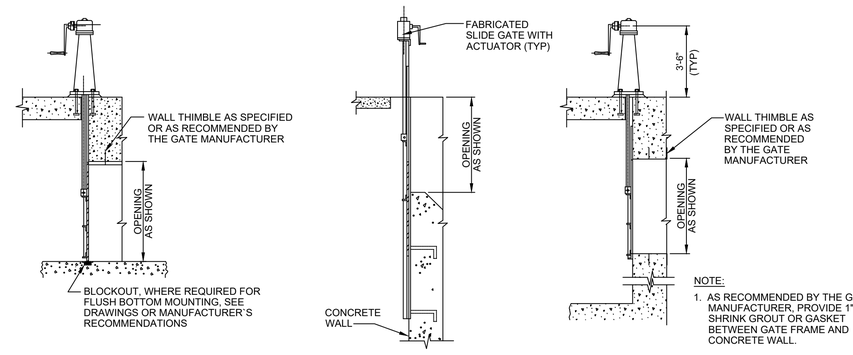
NOTES:

1. PROVIDE CAST-IN-PLACE HEAVY HEX HEAD ASTM F1554 GR 36 ANCHORS WITH TWO NUTS AND ONE LOCK WASHER, UNO.
2. HOT DIP GALVANIZE AFTER FABRICATION, UNO. PROVIDE 316SS ANCHORS IN SUBMERGED OR CORROSIVE CONDITIONS.
3. 'L' IS ALLOWABLE LONGITUDINAL TRIBUTARY LENGTH, DEFINED AS 1/2 THE VERTICAL DISTANCE TO THE NEXT LATERAL PIPE SUPPORT (Lv) PLUS 1/2 THE HORIZONTAL DISTANCE TO THE NEXT LONGITUDINAL PIPE SUPPORT (Lh). REFER TO TABLE FOR MAXIMUM ALLOWABLE 'L' FOR EACH SUPPORT.
4. IF ADHESIVE ANCHORS ARE USED (SIMPSON SET XP, OR EQUAL), USE REDUCED ALLOWABLE LONGITUDINAL TRIBUTARY LENGTH, 'L' ADH, GIVEN IN TABLE.

D-143 BASE MOUNTED ELBOW SUPPORT

(FOR PIPE 30" DIAMETER AND SMALLER)

REV 010119

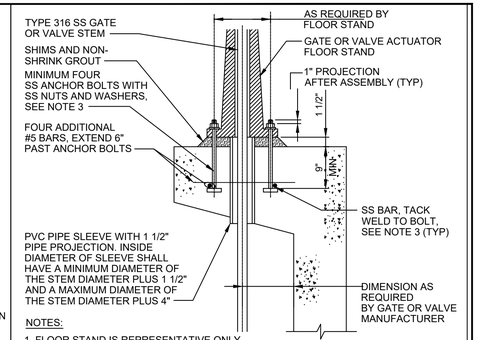


NOTE:

1. AS RECOMMENDED BY THE GATE MANUFACTURER, PROVIDE 1" NON SHRINK GROUT OR GASKET BETWEEN GATE FRAME AND CONCRETE WALL.

D-205 FABRICATED SLIDE GATE

REV 010119

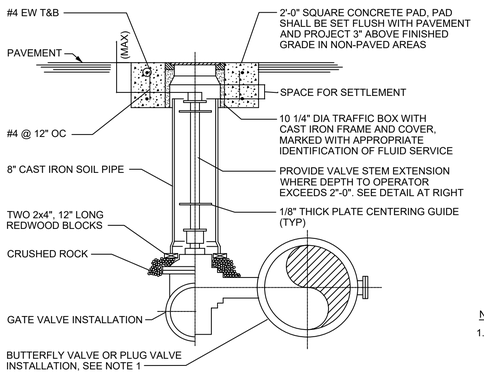


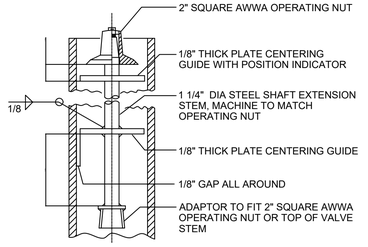
NOTES:

1. FLOOR STAND IS REPRESENTATIVE ONLY.
2. DETAIL APPLICABLE FOR FLOOR SLAB OR CURB INSTALLATION.
3. IF USED ON ELEVATED SLABS LESS THAN 12" THICK, BOLT THROUGH SLAB USING 4" SS ANCHOR BOLTS WITH SS NUTS AND WASHERS. SEE DRAWINGS FOR ADDITIONAL ANCHOR PLATE DETAILS, IF REQUIRED. SEE SPECIFICATIONS FOR ANCHOR BOLT AND ANCHORAGE REQUIREMENTS.

D-230 FLOOR STAND INSTALLATION

REV 010119





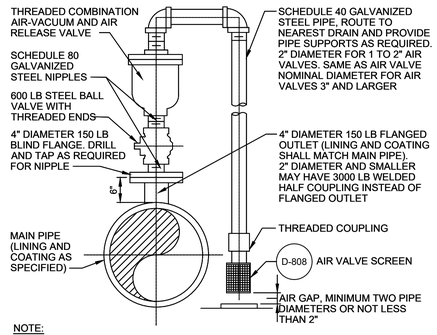
VALVE STEM EXTENSION DETAIL

NOTE:

1. FOR LUBRICATED PLUG VALVES, EXTEND LUBRICATION LINE TO GRADE PER MANUFACTURER'S INSTRUCTIONS.

BURIED VALVE D-803

REV 091515



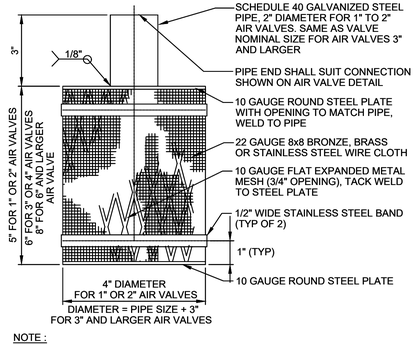
NOTE:

1. ALL COMPONENTS FOR PIPING SYSTEMS WITH SERVICE PRESSURE CLASS GREATER THAN 150 PSI SHALL BE SUITABLE FOR THE HIGHER PRESSURE.

D-804 AIR-VAC AND A/R VALVE ASSEMBLY

(3" AND SMALLER)

REV 010119



NOTE :

1. AIR VALVE SCREEN ASSEMBLY (EXCEPT WIRE CLOTH AND STAINLESS STEEL BANDS) SHALL BE COATED PER THE REQUIREMENTS OF THE SPECIFICATION 'PROTECTIVE COATING'.

D-808 AIR VALVE SCREEN

REV 010119

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

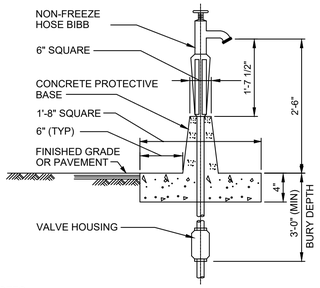
MECHANICAL STANDARD DETAILS 3

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING

GM-3

C:\Users\MeganTracy\DC\ACDocs\McMillen Inc\26-017 Tulalip Lower Pond Improvements\Project Files\Drawings\26-017_TLP STANDARD DETAILS_07-MEC.dwg

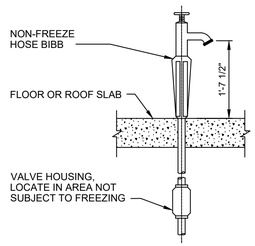


NOTES:

1. PROVIDE WARNING SIGN PER STANDARD DETAIL M-832 WHEN USED FOR NON-POTABLE WATER
2. WHERE NOT LOCATED NEXT TO A PAVED AREA, CONCRETE BASE SHALL BE 3" ABOVE FINISHED GRADE

D-822 NON-FREEZE HOSE BIBB SURFACE MOUNTED

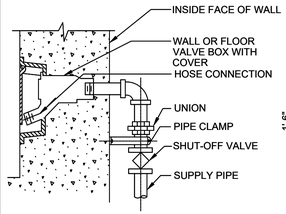
REV 010119



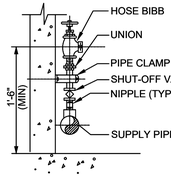
NOTE:

1. PROVIDE WARNING SIGN PER STANDARD DETAIL M-832 WHEN USED FOR NON-POTABLE WATER.

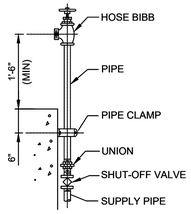
D-823 NON-FREEZE HOSE BIBB FLOOR OR SLAB MOUNTED



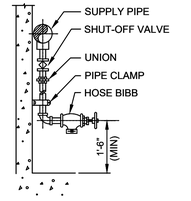
HB-2
NON-FREEZE WALL HYDRANT



HB-3
HOSE HYDRANT INSTALLATION METHOD A



HB-3
HOSE HYDRANT INSTALLATION METHOD B



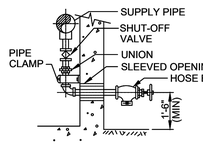
HB-3
HOSE HYDRANT INSTALLATION METHOD C

NOTES:

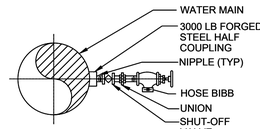
1. FOR SIZE AND LOCATION SEE DRAWINGS.
2. PROVIDE WARNING SIGN PER STANDARD DETAIL M-832 WHEN USED FOR NON-POTABLE WATER.

D-824 HOSE BIBBS

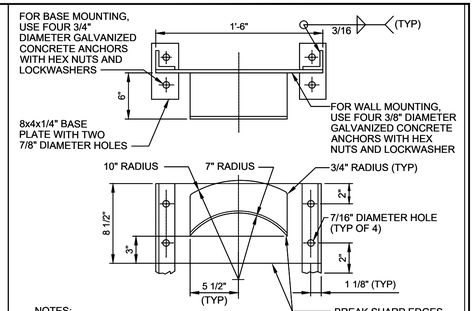
REV 010119



HB-3
HOSE HYDRANT INSTALLATION METHOD D



HB-3
HOSE HYDRANT INSTALLATION METHOD E

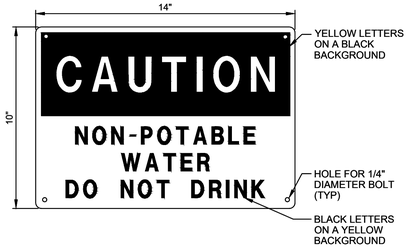


NOTES:

1. WHERE HOSE RACK IS FREE-STANDING, PROVIDE TWO 2x2x1/4" STEEL ANGLES WITH BASEPLATES. WHERE BASEPLATES ARE ATTACHED TO CONCRETE, A MINIMUM OF 1" OF NON-SHRINK GROUT SHALL BE PROVIDED BETWEEN THE BASEPLATES AND THE CONCRETE.
2. HOSE RACK SHALL BE CONSTRUCTED OF WELDED 8-GAUGE STEEL SHEET, HOT DIP GALVANIZED AFTER FABRICATION.

D-825 HOSE RACK

REV 010119

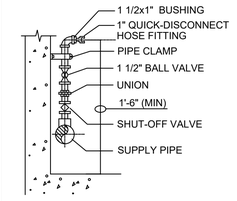


NOTES:

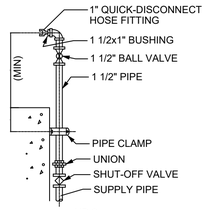
1. PROVIDE SIGN AT ALL HOSE BIBB LOCATIONS WHERE WATER IS NON-POTABLE.
2. SEE SPECIFICATIONS SECTION 'BUILDING SIGNAGE' FOR FURTHER REQUIREMENTS.

D-832 WARNING SIGN FOR NON-POTABLE WATER

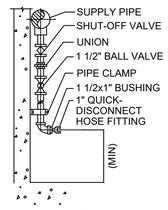
REV 010119



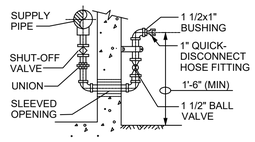
HB-3
HOSE HYDRANT INSTALLATION METHOD A



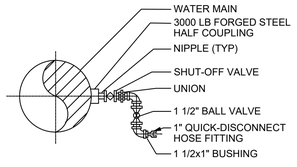
HB-3
HOSE HYDRANT INSTALLATION METHOD B



HB-3
HOSE HYDRANT INSTALLATION METHOD C



HB-3
HOSE HYDRANT INSTALLATION METHOD D



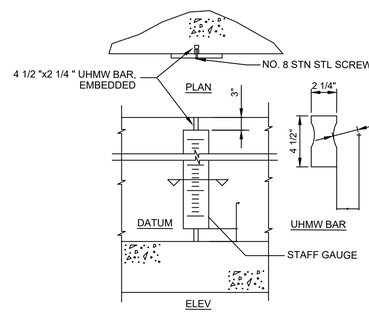
HB-3
HOSE HYDRANT INSTALLATION METHOD E

NOTES:

1. FOR LOCATION SEE DRAWINGS.
2. PROVIDE WARNING SIGN PER STANDARD DETAIL M-832 WHEN USED FOR NON-POTABLE WATER.

HOSE VALVES WITH QUICK-DISCONNECTS

D-839



D-901 STAFF GAUGE MOUNTING

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES

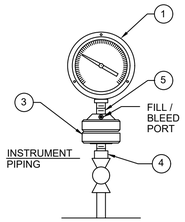
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

MECHANICAL STANDARD DETAILS 4

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING
GM-4

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PRESSURE GAUGE OR SWITCH WITH DIAPHRAGM SEAL

BILL OF MATERIALS					
ITEM	QTY	DESCRIPTION	SUPPLY	MATERIAL/ RATING (WATER / AIR)	MATERIAL/ RATING (CHEMICAL)
1	1	LIQUID-FILLED PRESSURE GAUGE	MANF	PHENOLIC ENCASED	PHENOLIC ENCASED
2	1	1/2" (15mm) 2 VALVE MANIFOLD WITH INTEGRAL BLEED	MANF	316 SS	316 SS OR PVC
3	AR	ISOLATION DIAPHRAGM SEAL; SILICONE OIL FILL FLUID ⬡A	MANF	316 SS	HASTELLOY C OR PVC
4	1	HEX REDUCING BUSHING 1"x1/2" (25mmx15mm)	CONT	316 SS	316 SS OR PVC
5	AR	1/2" MALE TO MALE NIPPLE	CONT	316 SS	316 SS OR PVC

⬡ KEYNOTES:

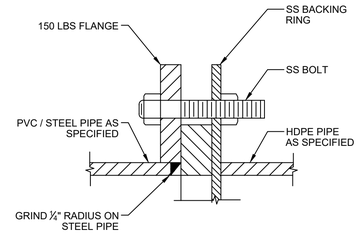
A. FOR AMBIENT TEMPERATURE APPLICATIONS LOWER THAN -10 degC, ETHYLENE GLYCOL FILL FLUID REQUIRED IN LIEU OF STANDARD SILICONE OIL.

GENERAL NOTES:

1. PIPING SIDE ISOLATION VALVES FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
2. REFER TO DIVISION 26 SPECIFICATIONS FOR FLEX AND RIGID CONDUIT MATERIAL AND USAGE LIMITATIONS.

I-301 PRESSURE GAUGE / SWITCH

REV 010119



NOTES:

1. FOR STEEL PIPE, FABRICATE TO MATCH THE SAME ID AS HDPE PIPE.
2. PIPE SHALL BE INSTALLED SUCH THAT ID OF BOTH PIPES ARE FLUSH AT THE JOINT

D-902 HDPE TO PVC / STEEL CONNECTION

NOT TO SCALE

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

MECHANICAL STANDARD DETAILS 5

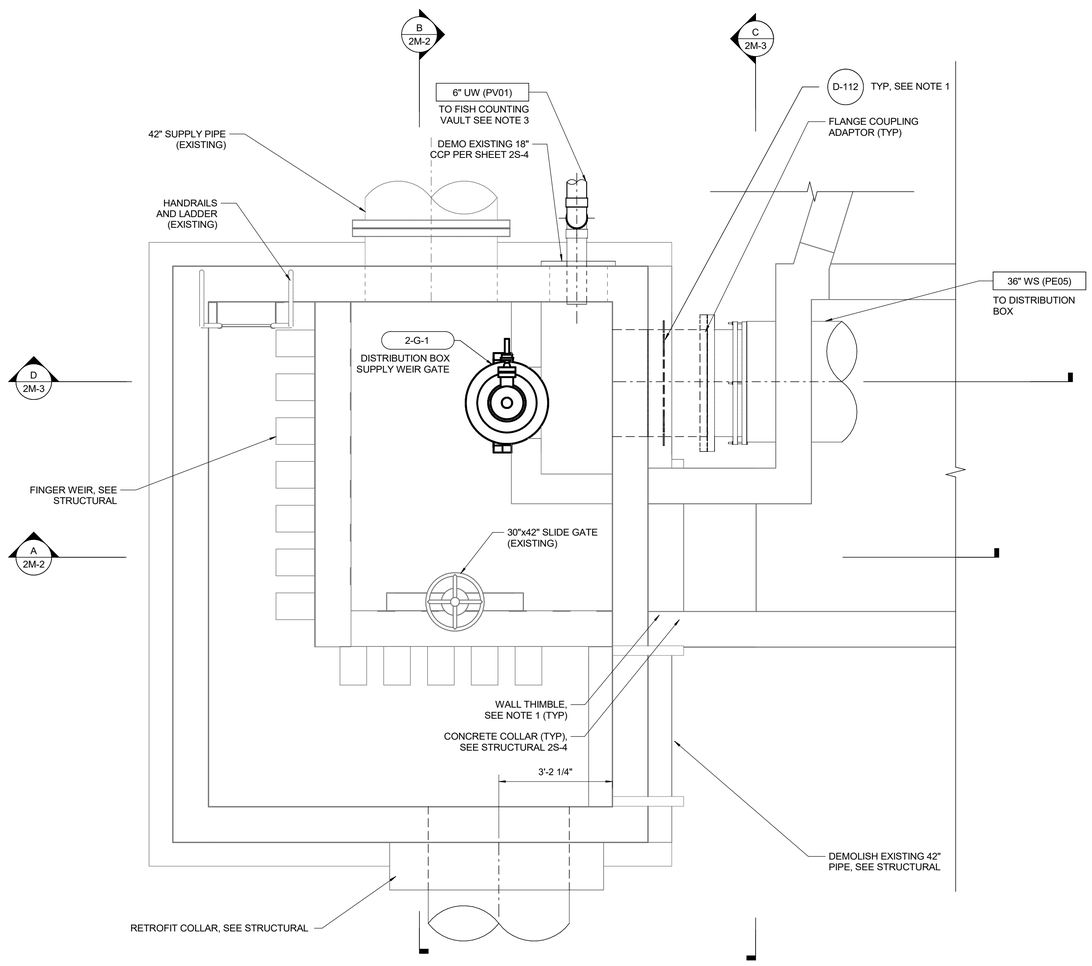
DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING
GM-5

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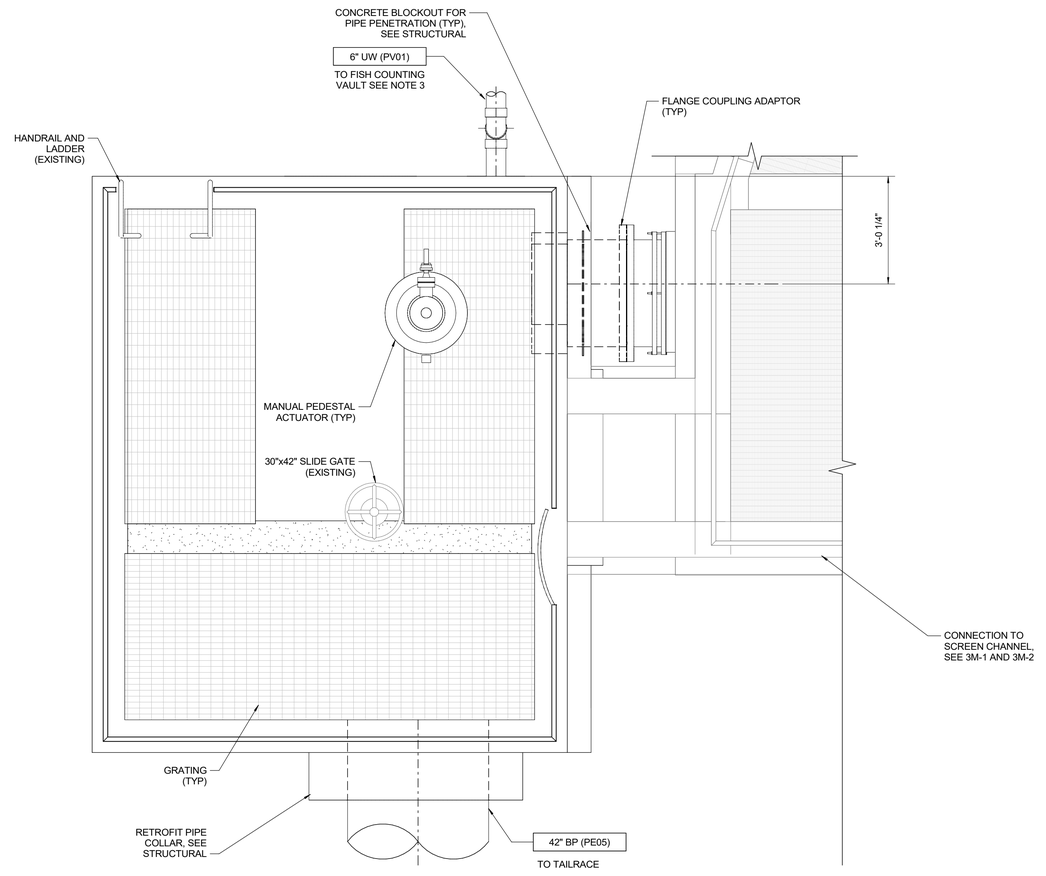
GENERAL SHEET NOTES

1. PROVIDE WALL THIMBLES THROUGH THE CORE DRILLED OPENINGS AND CAST INTO THE PIPE COLLAR. THIMBLE SHALL BE FABRICATED FROM STEEL AND SIZED TO MATCH THE INSIDE DIAMETER OF THE RECEIVING PIPE. SEE GM-2
2. MODIFY EXISTING GRATING AS REQUIRED FOR NEW GATE ACTUATOR. EXISTING GRATING SHALL BE BANDED AND RESTORED WITH NEW GALVANIZED FINISH.
3. INSTALL 6" UTILITY WATER PIPE IN EXISTING OPENING FOLLOWING DEMOLITION OF THE EXISTING 18" CMP. GROUT OPENING AROUND NEW PIPE WATER TIGHT.



LOWER PLAN

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



TOP PLAN

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

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FLOW SPLITTING BOX MODIFICATIONS PLANS

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/26

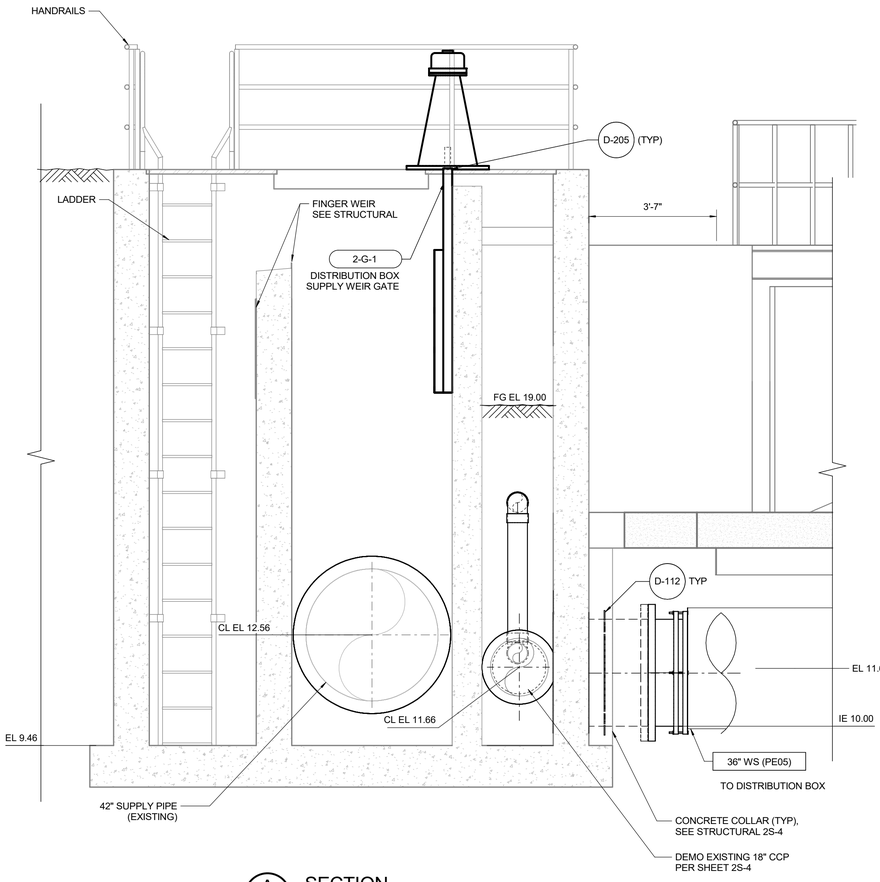
DRAWING

2M-1

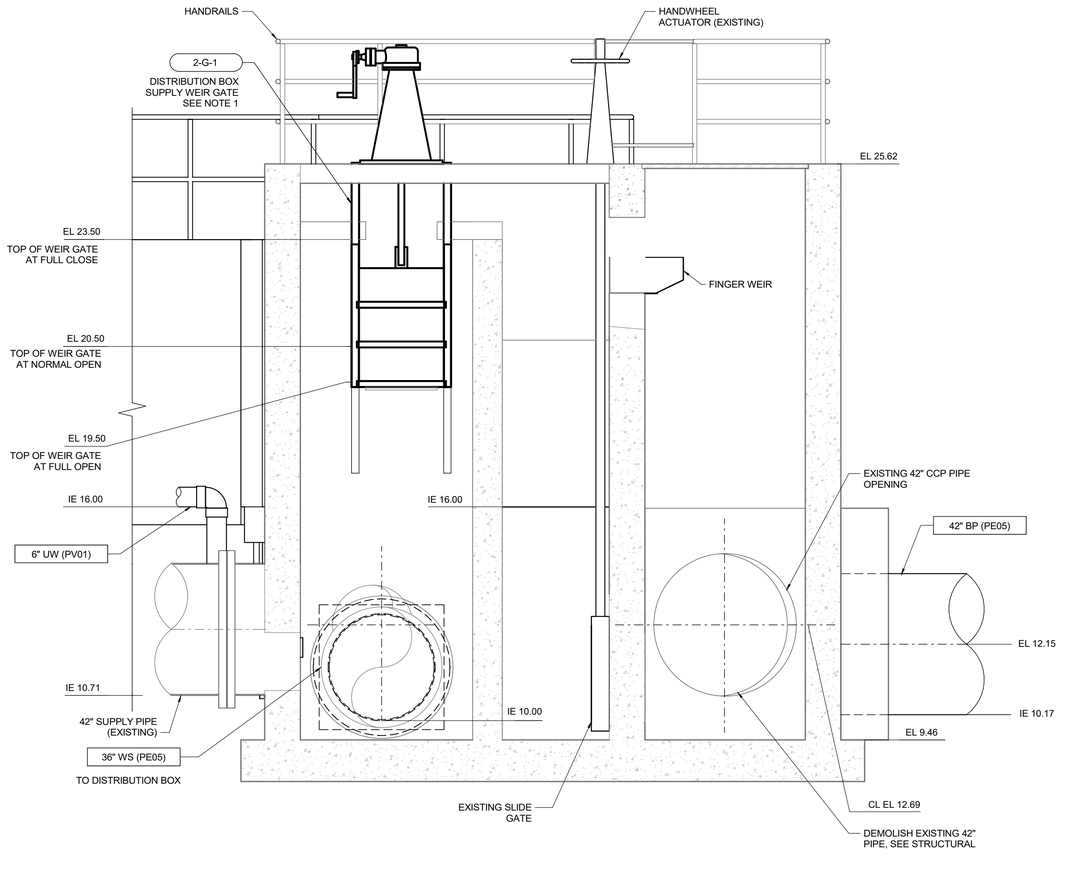
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026862m-md.rvt

GENERAL SHEET NOTES

1. WEIR GATE TO BE SINGLE STEM WITH FRAMED OPENING SIMILAR TO DETAIL 1 ON SHEET 5M-3.



A 2M-1 SECTION
SCALE: 1/2" = 1'-0"



B 2M-1 SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
FLOW SPLITTING
BOX MODIFICATION
SECTIONS - I

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/26

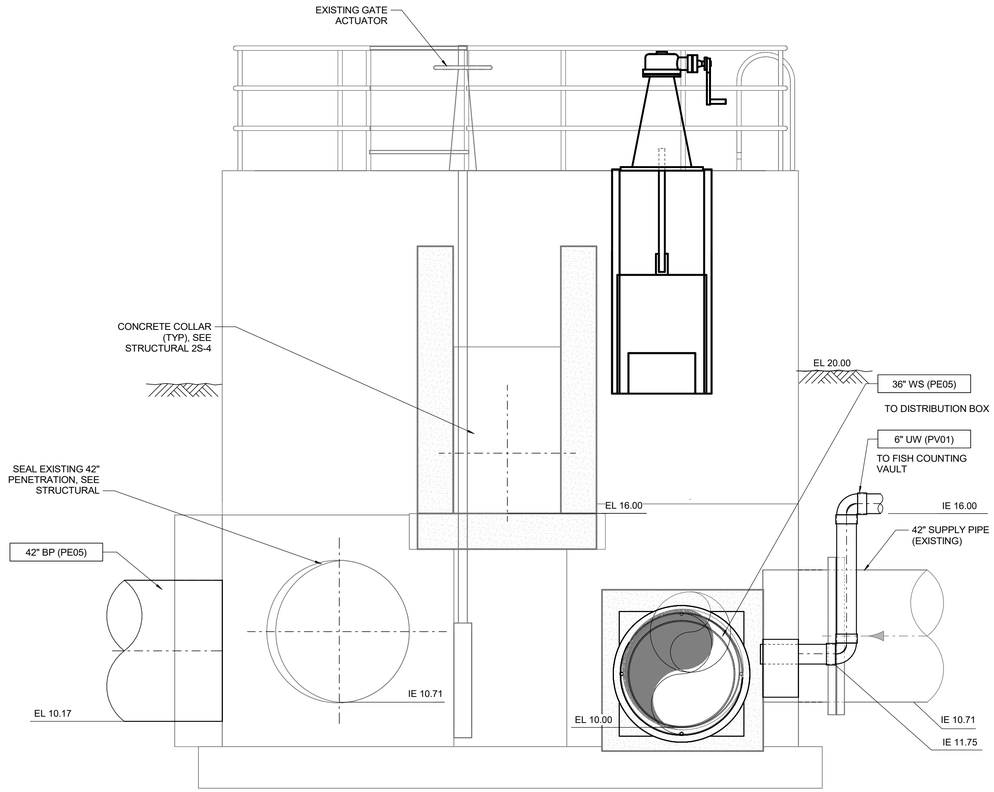
DRAWING
2M-2

Exhibit E.1 Page 105 of 161

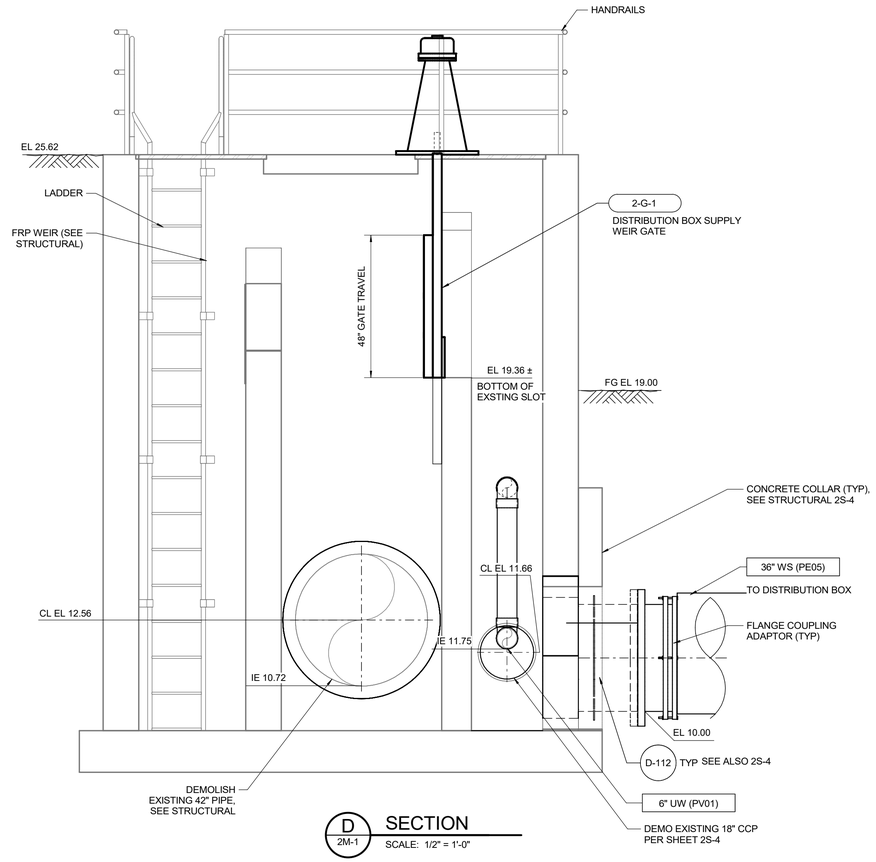
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026862m-md.rvt

GENERAL SHEET NOTES

1. PROVIDE SHOP DRAWINGS WITH DIMENSIONS OF THE EXISTING RCP PRIOR TO FABRICATION.
2. ALL HDPE WELDS SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.
3. THE SILICON SEALANT SHALL BE APPROVED BY THE ENGINEER.



C 2M-1 SECTION
SCALE: 1/2" = 1'-0"



D 2M-1 SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

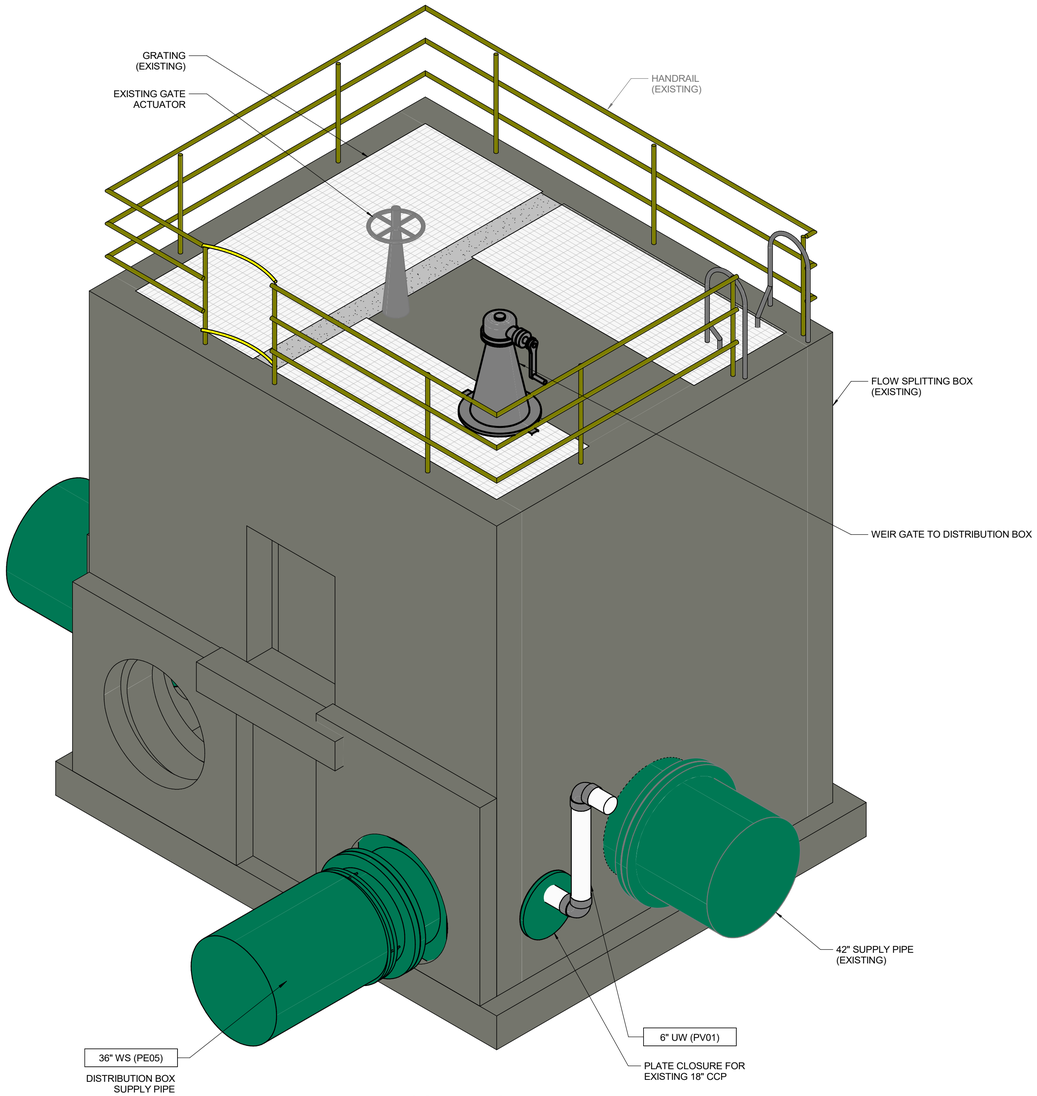
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
FLOW SPLITTING BOX MODIFICATION
SECTION - II

DESIGNED	M. VASILEV
DRAWN	E. BOWEN
CHECKED	J. DALLAS
ISSUED DATE	06/29/26

DRAWING
2M-3

Exhibit E.1 Page 106 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026862m-md.rvt



ISOMETRIC VIEW

SCALE:

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FLOW SPLITTING
BOX MODIFICATION
ISOMETRIC VIEW

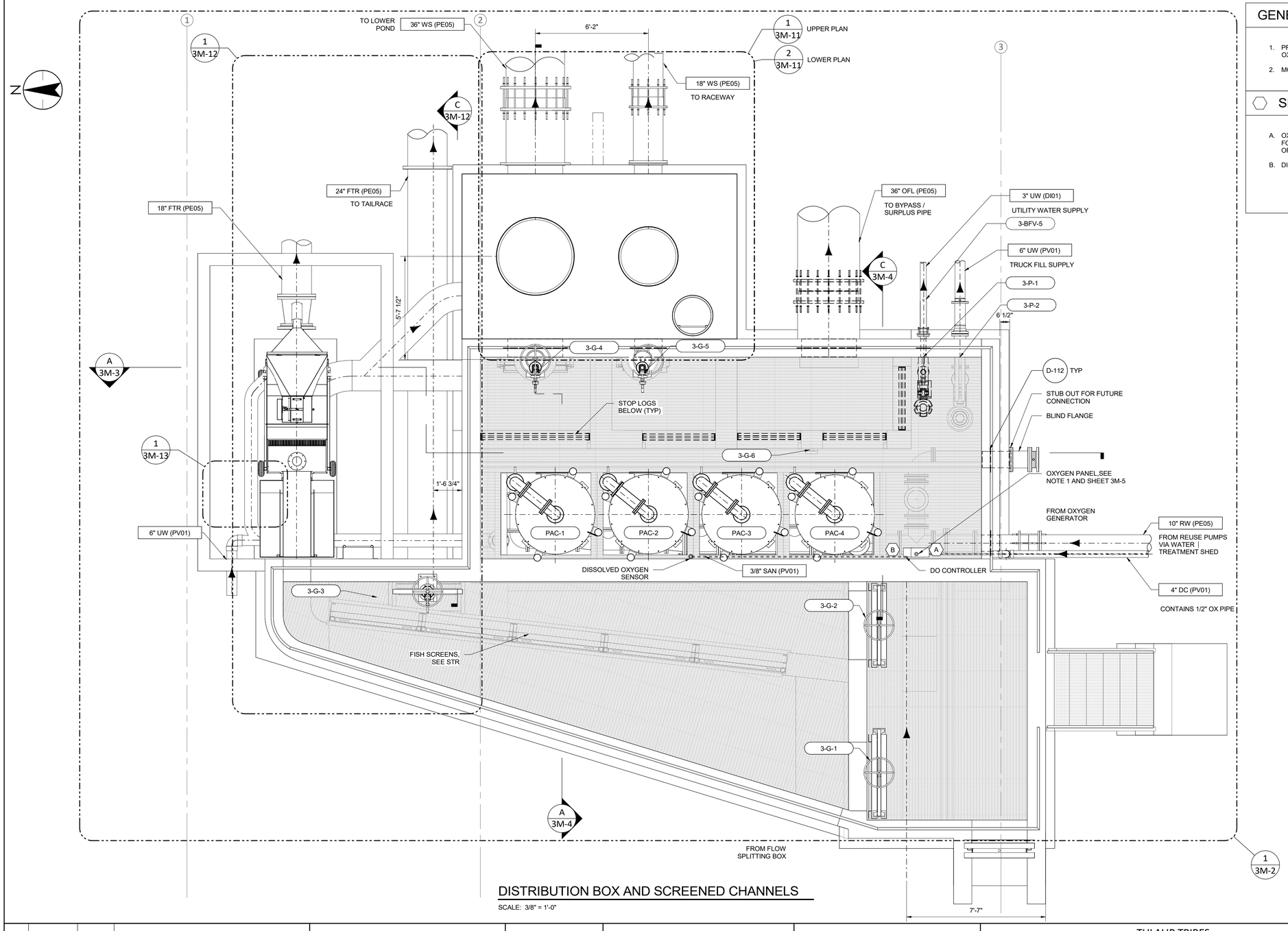
DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/26

DRAWING

2M-4

Exhibit E.1 Page 107 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026862m-md.rvt



DISTRIBUTION BOX AND SCREENED CHANNELS

SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

1. PROVIDE AN ALUMINIUM OR STAINLESS STEEL MOUNTING TO THE HANDRAIL INSTALL OXYGEN FLOW METER AND MANIFOLD PIPING INSIDE
2. MOUNT LOCAL DISPLAY AT SPAWNING SHED, FIELD CONFIRM LOCATION

SHEET KEYNOTES

A. OXYGEN FLOWMETER WITH BUILT-IN BRASS FLOW REGULATING VALVE SUITABLE FOR OXYGEN SERVIVE. SCAL 4-40 CUBIC FEET PER HOUR, PENTAIR MODEL MFR440 OR EQUAL

B. DISSOLVED OXYGEN ANALYZER/ CONTROLLER TRANSMITTER, SEE SPECIFICATIONS.

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

DISTRIBUTION BOX AND SCREENED CHANNELS

DESIGNED M. VASILEV
DRAWN M. TRACY
CHECKED J. DALLAS
ISSUED DATE 06/29/26

DRAWING
3M-1

Exhibit E.1 Page 108 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863m-mdrev.rvt

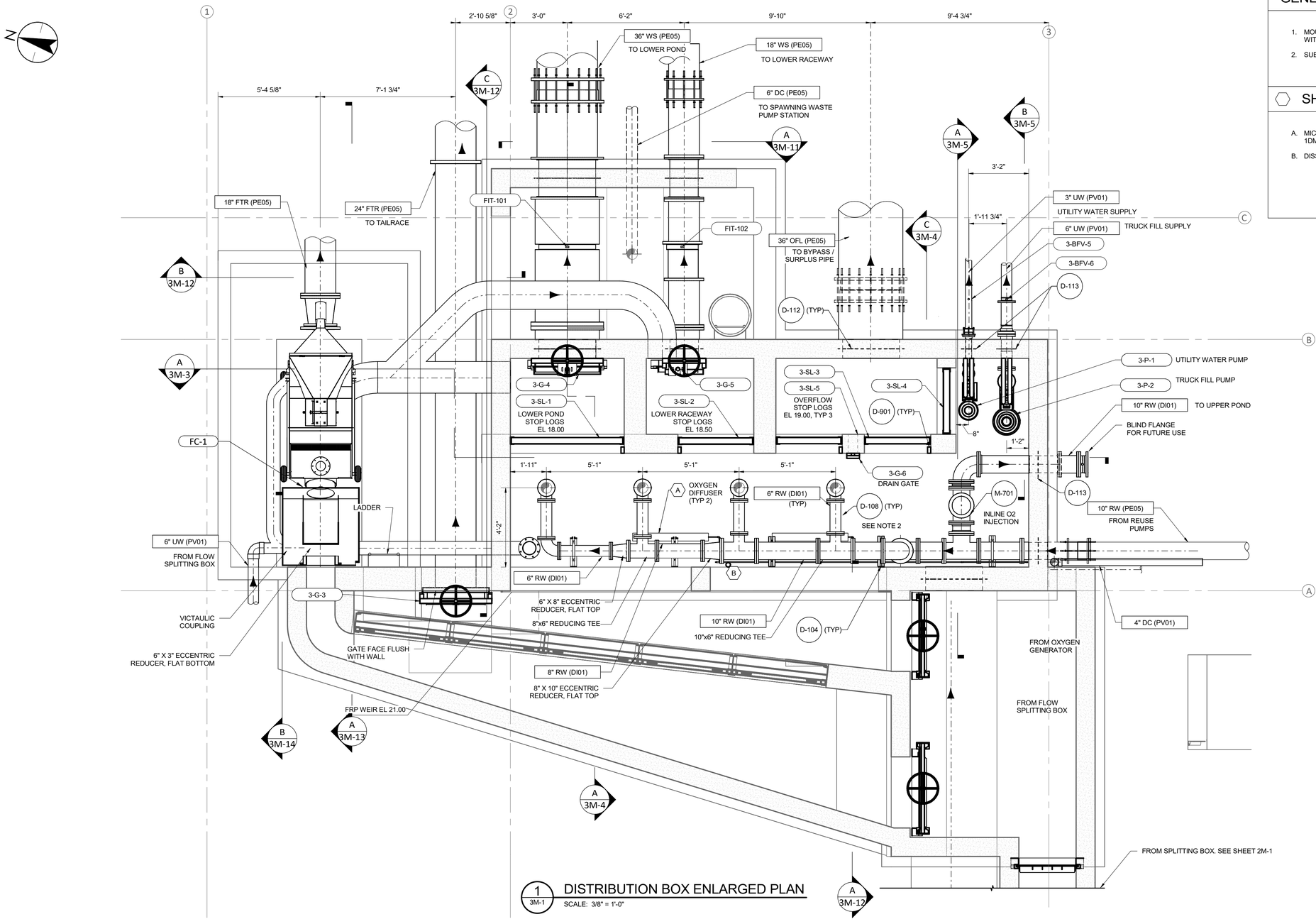
GENERAL SHEET NOTES

1. MOUNT MICRO-BUBBLE OXYGEN DIFFUSERS TO FLOOR TO OXYGEN SUPPLY PIPING WITH SOLID BRASS CONNECTION FITTINGS.
2. SUBMERGED PIPE SUPPORTS SHALL BE STAINLESS STEEL.

SHEET KEYNOTES

A. MICRO-BUBBLE OXYGEN DIFFUSER WITH ALUMINIUM BASE, POINT FOUR MODEL 1DMBC120 OR EQUAL.

B. DISSOLVED OXYGEN SENSOR, SEE SPECIFICATIONS.



1 3M-1 DISTRIBUTION BOX ENLARGED PLAN
SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

DISTRIBUTION BOX
LOWER PLAN

DESIGNED M. VASILEV
DRAWN M. TRACY
CHECKED J. DALLAS
ISSUED DATE 06/29/26

DRAWING
3M-2

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863m-mdrev.rvt

GENERAL SHEET NOTES

1. MOUNT MICRO-BUBBLE OXYGEN DIFFUSERS TO FLOOR TO OXYGEN SUPPLY PIPING WITH SOLID BRASS CONNECTION FITTINGS
2. PROVICE AN ALUMINIUM OR STAINLESS STEEL MOUNTING TO THE HANDRAIL INSTALL OXYGEN FLOW METER AND MANIFOLD PIPING INSIDE
3. CONTRACTOR SHALL PROVIDE ADDITIONAL PIPE SUPPORTS AS NEEDED, SEE REQUIREMENTS OF SECTION 40 05 07 PIPE SUPPORTS.

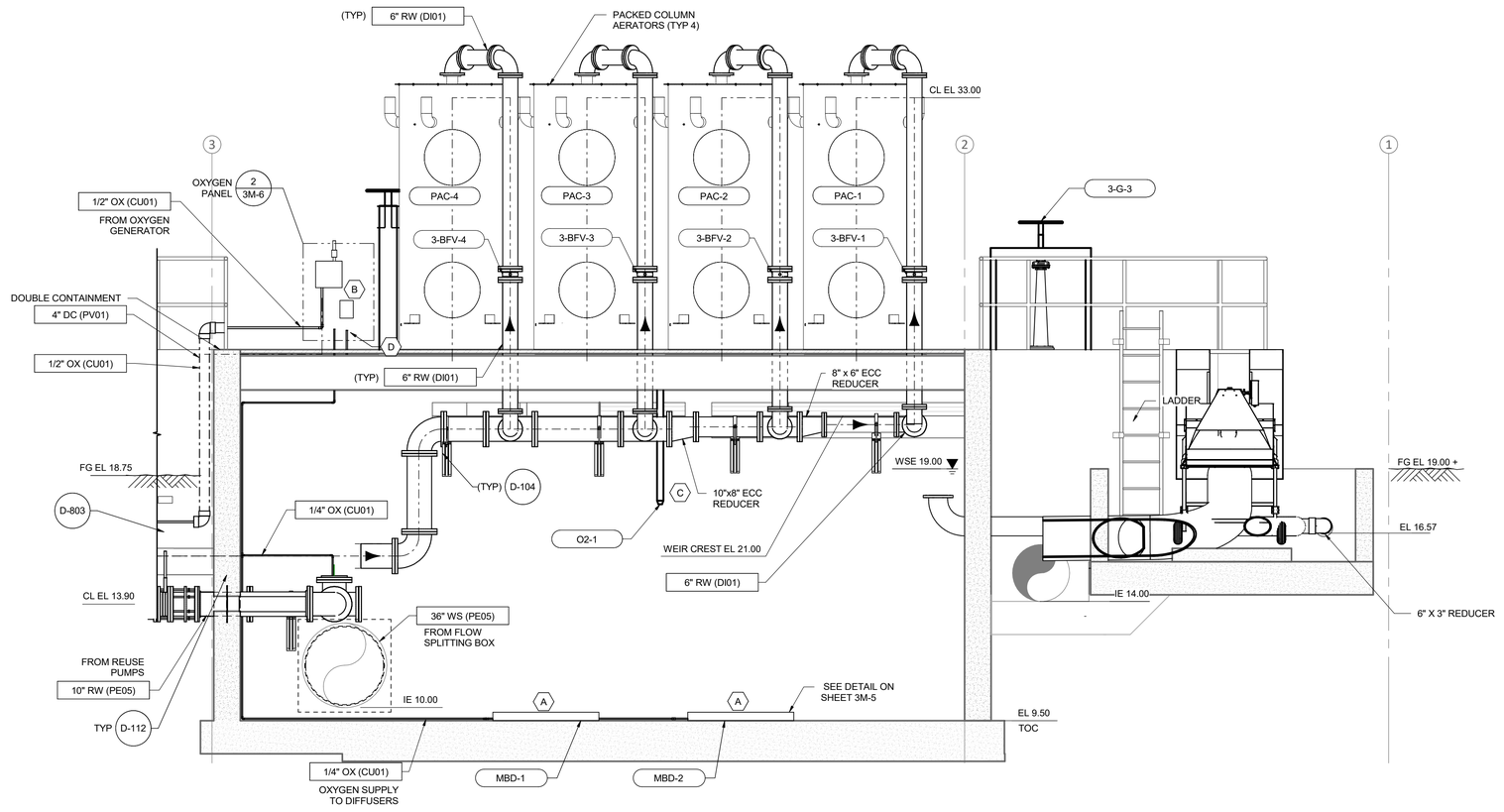
SHEET KEYNOTES

A. MICRO-BUBBLE OXYGEN DIFFUSER WITH ALUMINIUM BASE, POINT FOUR MODEL 1DMBC120 OR EQUAL

B. OXYGEN FLOWMETER WITH BUILT-IN BRASS FLOW REGULATING VALVE SUITABLE FOR OXYGEN SERVICE. SCALE 4-40 CUBIC FEET PER HOUR, PENTAIR MODEL MFR440 OR EQUAL.

C. DISSOLVED OXYGEN SENSOR, SEE SPECIFICATIONS, MOUNTED IN 4" SCH 40 PVC STILLING WELL

D. DISSOLVED OXYGEN ANALZER/ CONTROLLET TRANSMITTER, SEE SPECIFICATIONS.



A 3M-1 SECTION
SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING
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TULALIP TRIBES

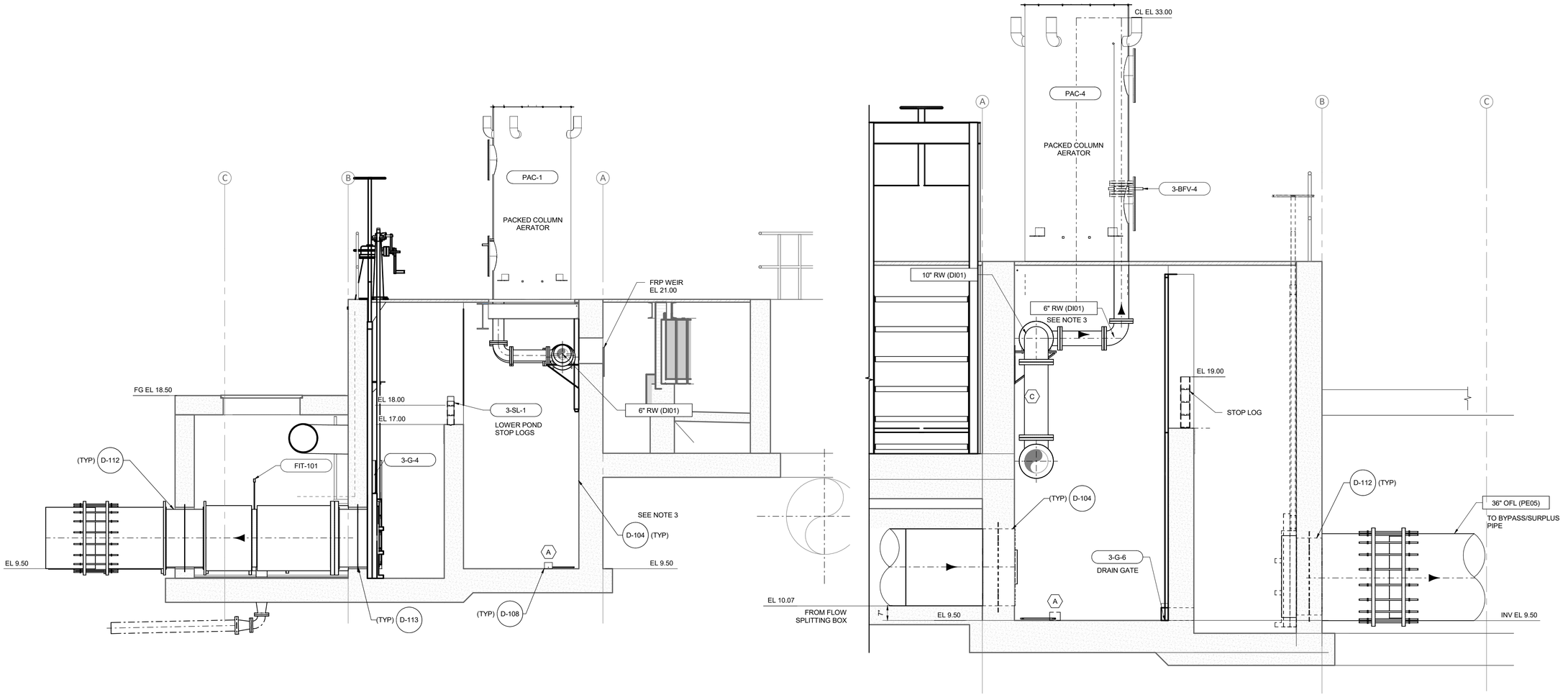
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
DISTRIBUTION BOX
SECTIONS 1

DESIGNED M. VASILEV
DRAWN M. TRACY
CHECKED J. DALLAS
ISSUED DATE 06/29/26

DRAWING
3M-3

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Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0126863m-mdrev.rvt



A 3M-1 SECTION
SCALE: 3/8" = 1'-0"

C 3M-1 SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

DISTRIBUTION BOX
SECTIONS 2

DESIGNED M. VASILEV
DRAWN M. TRACY
CHECKED J. DALLAS
ISSUED DATE 06/29/26

DRAWING
3M-4

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GENERAL SHEET NOTES

1. MOUNT MICRO-BUBBLE OXYGEN DIFFUSERS TO FLOOR TO OXYGEN SUPPLY PIPING WITH SOLID BRASS CONNECTION FITTINGS.
2. PROVICE AN ALUMINIUM OR STAINLESS STEEL MOUNTING TO THE HANDRAIL INSTALL OXYGEN FLOW METER AND MANIFOLD PIPING INSIDE.
3. CONTRACTOR SHALL PROVIDE ADDITIONAL PIPE SUPPORTS AS NEEDED, SEE REQUIREMENTS OF SECTION 40 05 07 PIPE SUPPORTS.

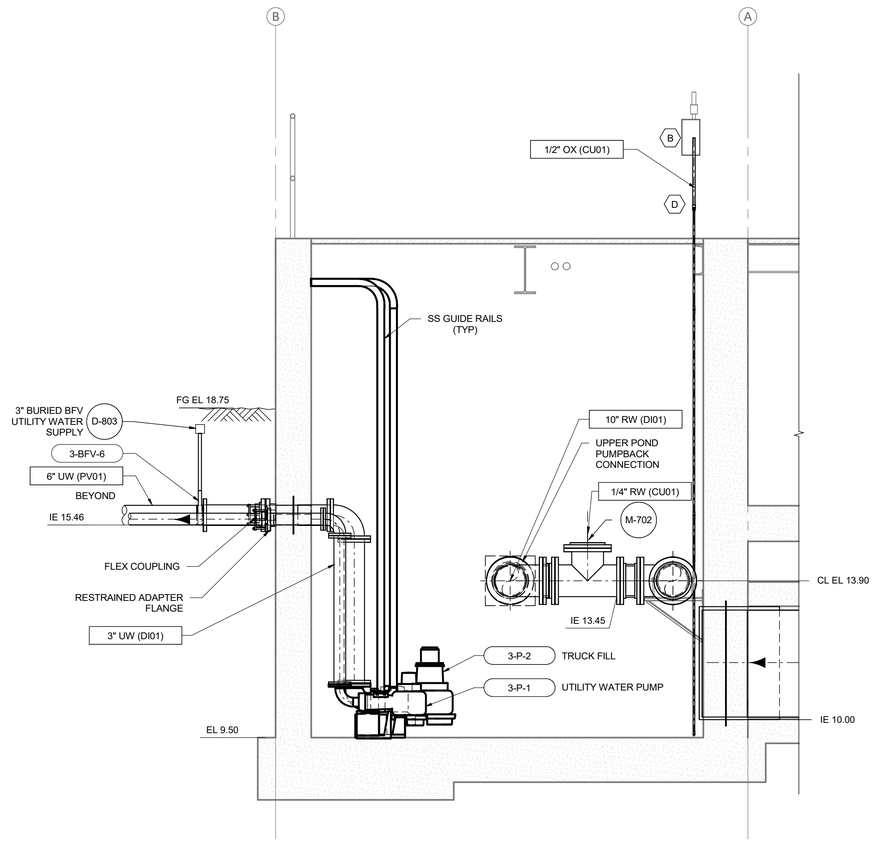
SHEET KEYNOTES

A. MICRO-BUBBLE OXYGEN DIFFUSER WITH ALUMINIUM BASE, POINT FOUR MODEL 1DMBC120 OR EQUAL

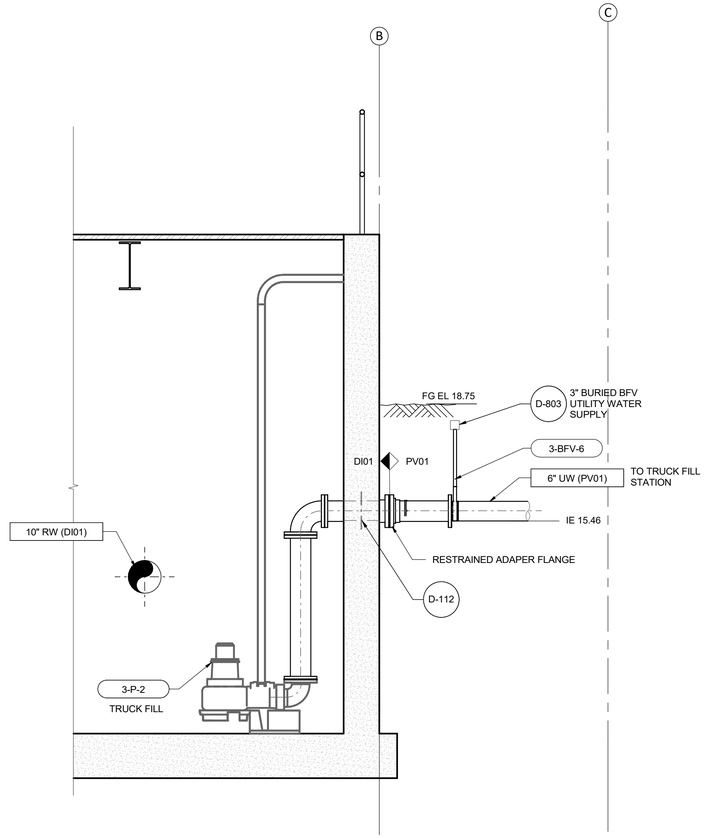
B. OXYGEN FLOWMETER WITH BUILT-IN BRASS FLOW REGULATING VALVE SUITABLE FOR OXYGEN SERVICE. SCALE 4-40 CUBIC FEET PER HOUR, PENTAIR MODEL MFR440 OR EQUAL.

C. DISSOLVED OXYGEN SENSOR, SEE SPECIFICATIONS, MOUNTED IN 4" SCH 40 PVC STILLING WELL

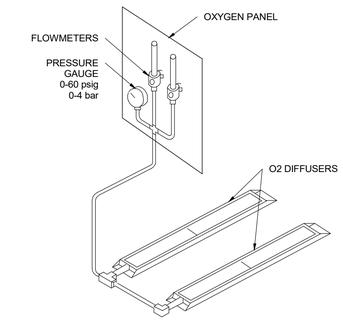
D. DISSOLVED OXYGEN ANALZER/ CONTROLLET TRANSMITTER, SEE SPECIFICATIONS.



A 3M-2 SECTION
SCALE: 1/2" = 1'-0"



B 3M-2 SECTION
SCALE: 1/2" = 1'-0"



C OXYGEN SUPPLY SCHEMATIC
NO SCALE

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

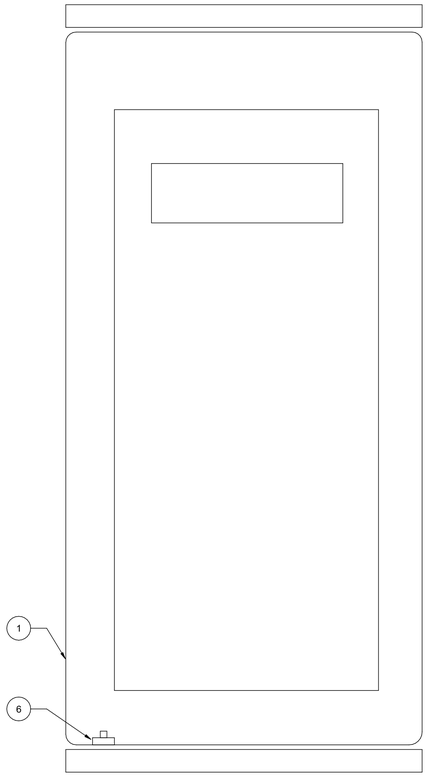
DISTRIBUTION BOX
SECTIONS 3

DESIGNED M. VASILEV
DRAWN M. TRACY
CHECKED J. DALLAS
ISSUED DATE 06/29/26

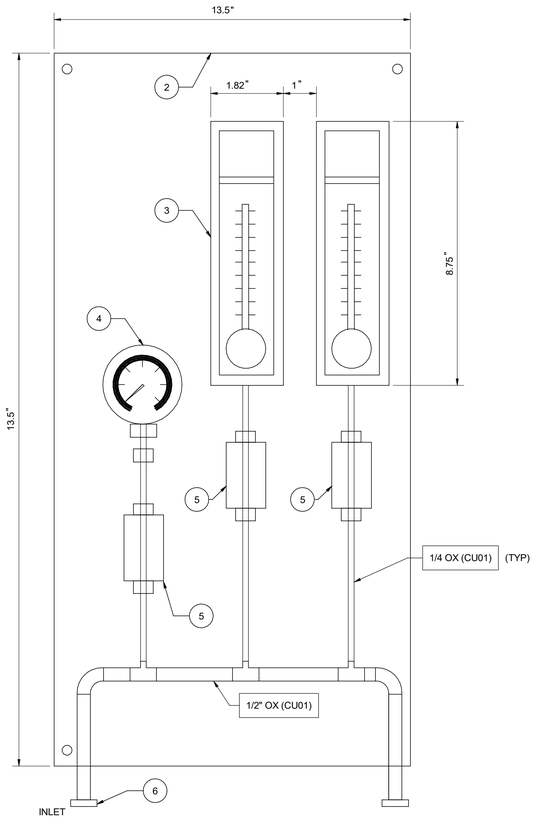
DRAWING
3M-5

Exhibit E.1 Page 112 of 161

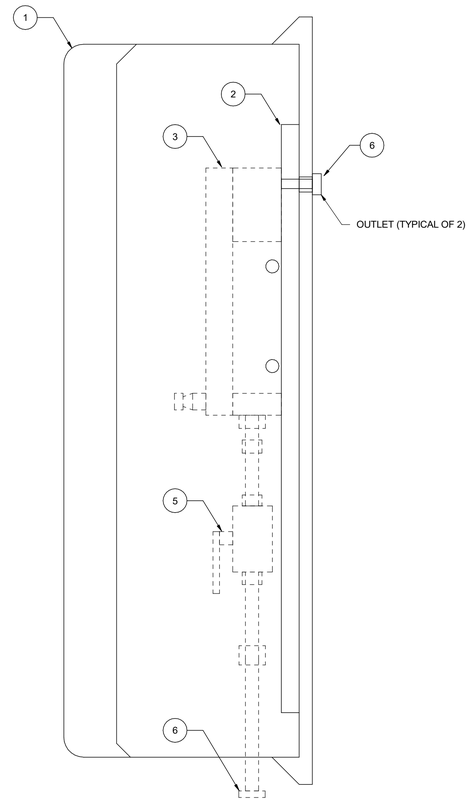
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0258683m-mdrev.rvt



A FLOW METER PANEL LAYOUT DIAGRAM EXTERIOR VIEW
NO SCALE



B FLOW METER PANEL LAYOUT DIAGRAM INTERIOR VIEW
NO SCALE



C FLOW METER PANEL LAYOUT DIAGRAM SIDE VIEW
NO SCALE

ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER	QYT
1	TYPE 4x ENCLOSURE (30.25x24.25x6.00) C/W DOCUMENT HOLDER	HOFFMAN	A30H2406GQRLP	1
2	FULL SIZE MOUNTING PANEL	HOFFMAN	A30P24	1
3	VARIABLE AREA FLOWMETER, 5-50 SCFH, 2" SCALE, 1/4" FEMALE NPT	DWYER	RMB-52-SSV	5
4	PRESSURE GAUGE, 0-100 PSI, 2.5", 1/4" NPT	WIKA	9767061	1
5	2 WAY BALL VALVE, 1/4" FRACTIONONAL TUBE CONNECTION, 3.18mm ORIFICE	DWYER	MSV-BD220	6
6	BULKHEAD PIPE FITTING	-	-	6
7	VARIOUS BRAA PIPING / FITTINGS 1/4"	-	-	AS REQ
8	NAME PLATE : XXX XXXX (TO BE DETERMINED)	TBD	TBD	1

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

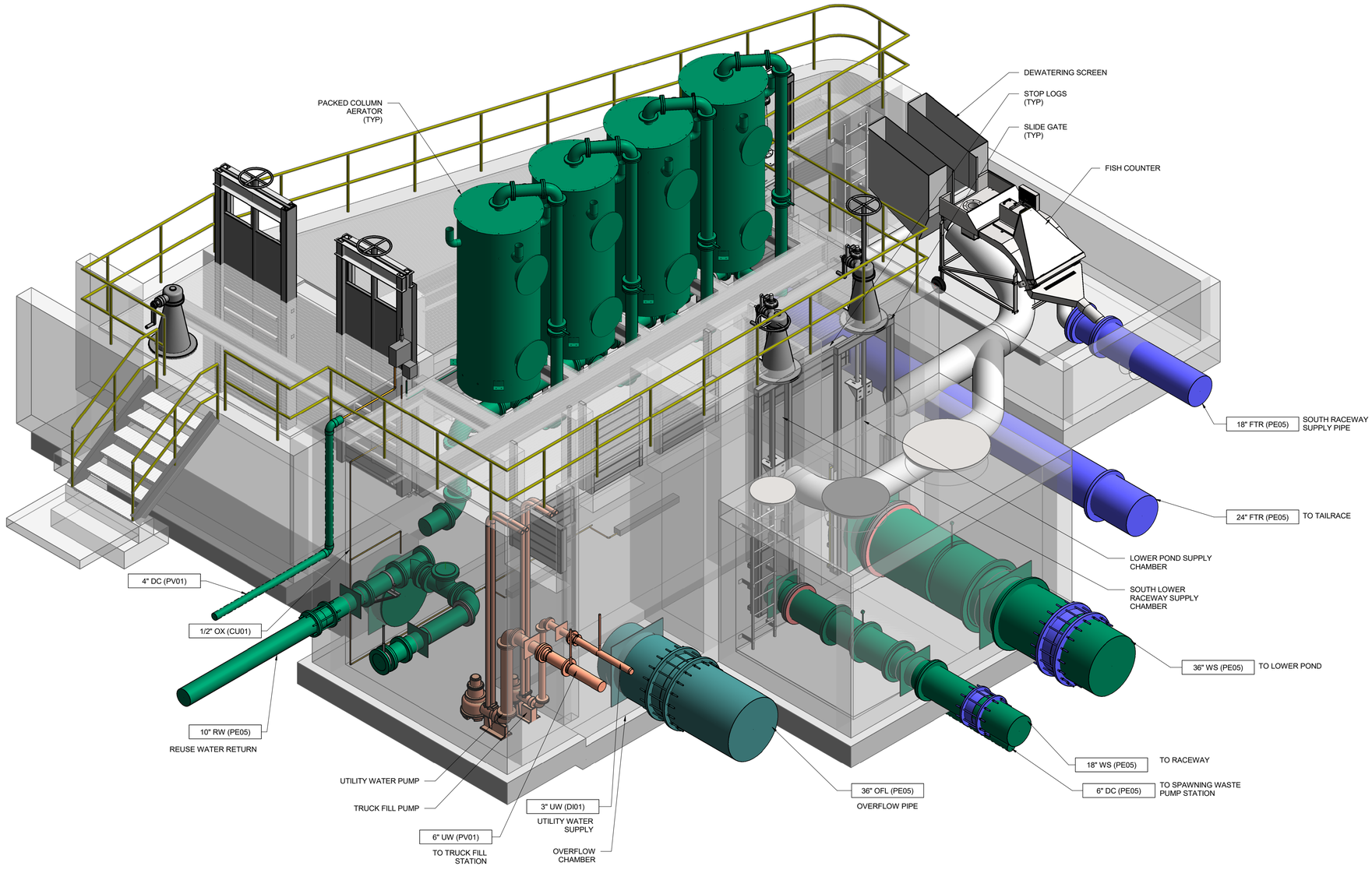
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
DISTRIBUTION BOX DETAILS

DESIGNED LR
DRAWN DW
CHECKED STN
ISSUED DATE 06/29/26

DRAWING
3M-6

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NORTHWEST ISOMETRIC VIEW

SCALE:

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

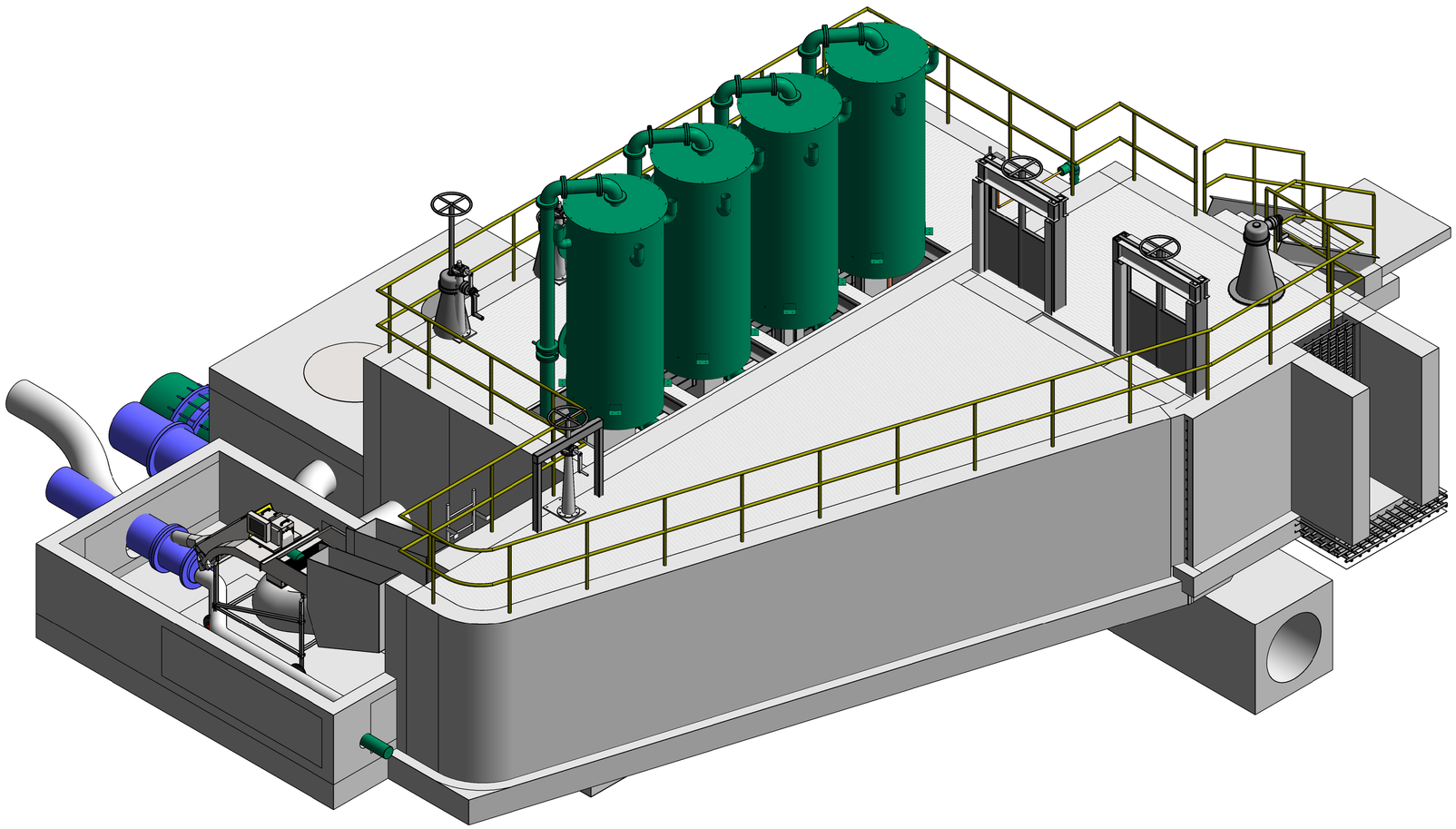
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

DISTRIBUTION BOX
ISOMETRIC VIEWS 1

DESIGNED B. WELTON
DRAWN M. TRACY
CHECKED J. DALLAS
ISSUED DATE 06/29/26

DRAWING
3M-7

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SOUTHEAST ISOMETRIC VIEW

SCALE:

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

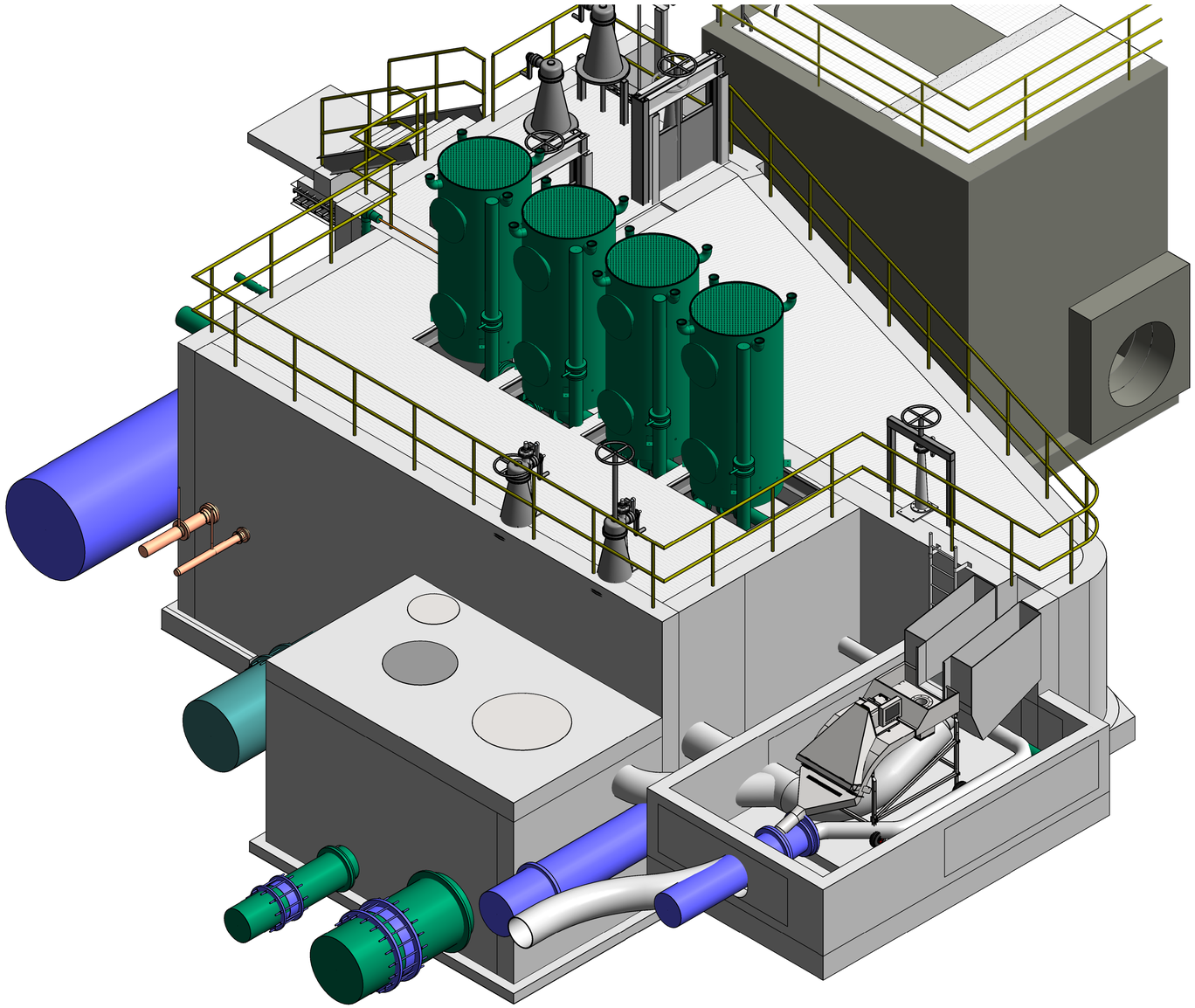
DISTRIBUTION BOX
ISOMETRIC VIEWS 2

DESIGNED B. WELTON
DRAWN M. TRACY
CHECKED J. DALLAS
ISSUED DATE 06/29/26

DRAWING

3M-8

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SOUTHWEST ISOMETRIC VIEW

SCALE:

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

DISTRIBUTION BOX
ISOMETRIC VIEWS 3

DESIGNED B. WELTON
DRAWN M. TRACY
CHECKED J. DALLAS
ISSUED DATE 06/29/26

DRAWING
3M-9

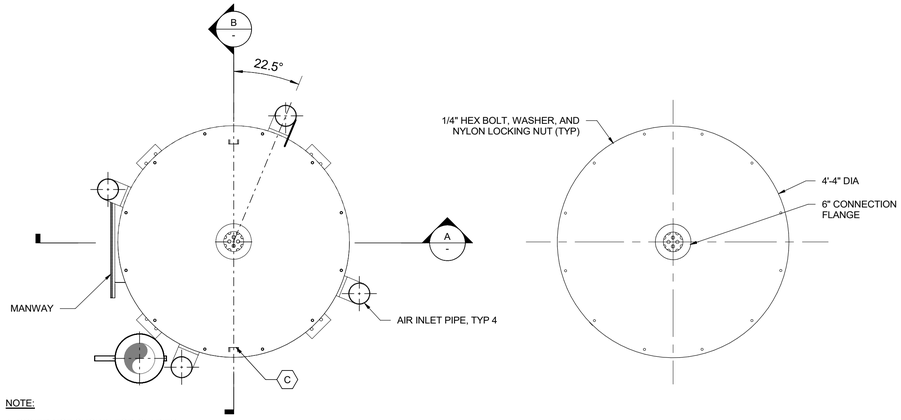
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026863m-mdrev.rvt

GENERAL SHEET NOTES

1. COLUMNS SHALL BE PROVIDED FILLED COMPLETELY WITH MEDIA BETWEEN THE RETAINER PLATE AND THE DISTRIBUTION PLATE, SEE SPECIFICATION FOR MEDIA TYPE.
2. ALL EXTERNAL CONNECTIONS TO THE TOWER AND THE AIR COLLECTION CHAMBER SHALL BE SEAL WELDED.

SHEET KEYNOTES

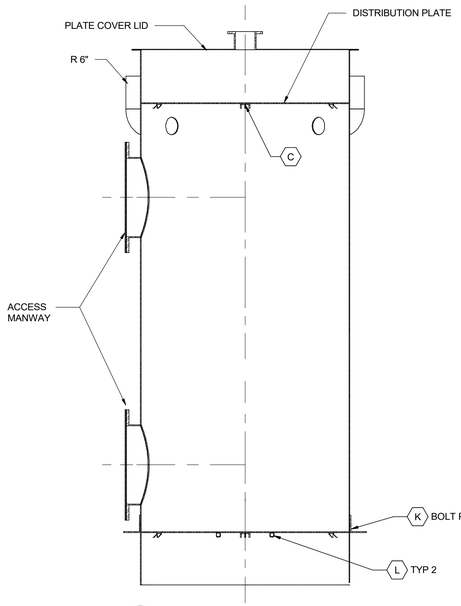
A. 12 GA ALUMINUM PLATE COVER
B. DISTRIBUTION PLATE FOR TOWERS SHALL BE FABRICATED FROM 10 GA PERFORATED ALUMINUM PLATE WITH 1/4" DIA STAGGERED HOLES AT 1" OC, APPROX 4.9% OPEN AREA.
C. 1/4" X 2" STIFFENER RIB.
D. 4" SCH 40 PVC ELBOW AND PIPE. PIPE EXTENSION SHALL BE PROVIDED TO MATCH TOP OF THE TOWER LID.
E. 48" ALUMINUM CORRUGATED METAL PIPE (CMP).
F. 4" ALUMINUM PIPE.
G SEE STRUCTURAL DRAWINGS FOR SUPPORT BEAMS.
H. MANWAY CONNECTION FLANGE AND MANWAY COVER PLATE SHALL BE FABRICATED FROM 1/4". ALUMINUM PLATE. PROVIDE BOLTS AT 3" OC FOR FLANGE AND COVER PLATE, 1/4" ALUMINUM HEX BOLTS WITH WASHERS AND NYLON LOCKING NUTS.
I. RETAINER PLATE FOR ALL TOWERS SHALL BE FABRICATED FROM 11 GA MIN PERFORATED ALUMINUM PLATE WITH 3/4" STAGGERED HOLES AT 1" OC, APPROX 50% OPEN AREA.
J. WELDOLET SHALL BE MODEL NO. 4565T331, 1/2" 304/304L SS THREADED PIPE FITTING.
K. L4" X 4" X 1/4" ALUMINIUM PLATE. SEE DETAIL ON THIS SHEET FOR STRUCTURAL INTERFACE.
L. HSS 1" X 1" X 1/8" STIFFENER.



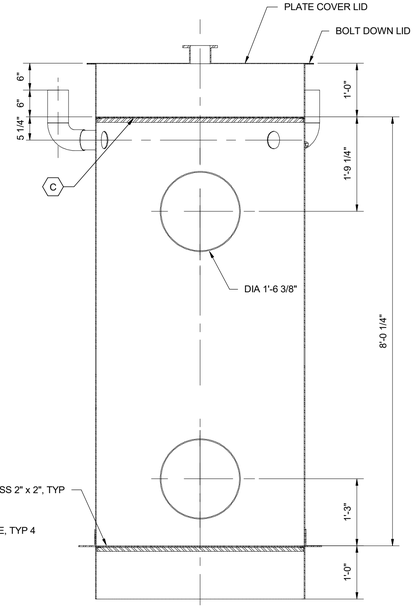
NOTE:
1. COVER NOT SHOWN FOR CLARITY.

1 TYPICAL TOWER PLAN
SCALE: 3/4" = 1'-0"

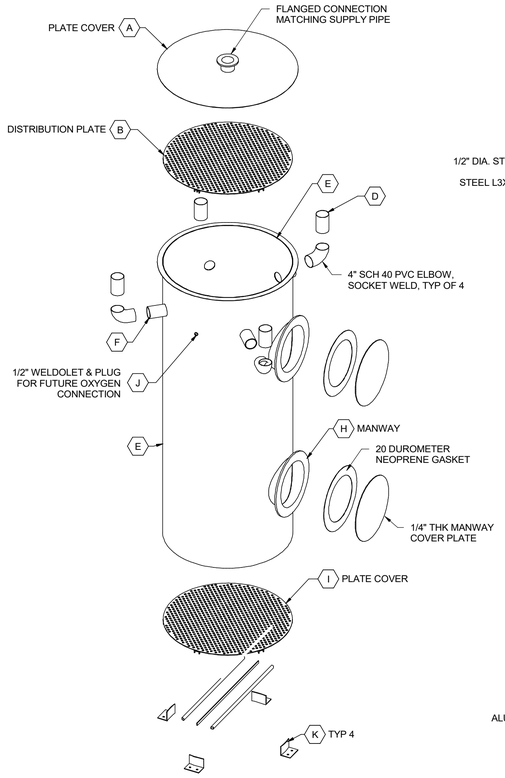
2 PLATE COVER
SCALE: 3/4" = 1'-0"



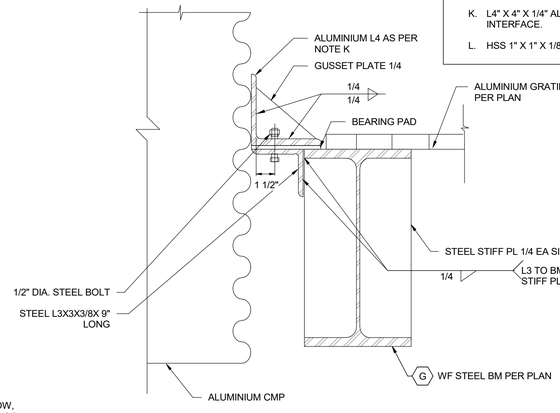
A 3M-10 SECTION
SCALE: 3/4" = 1'-0"



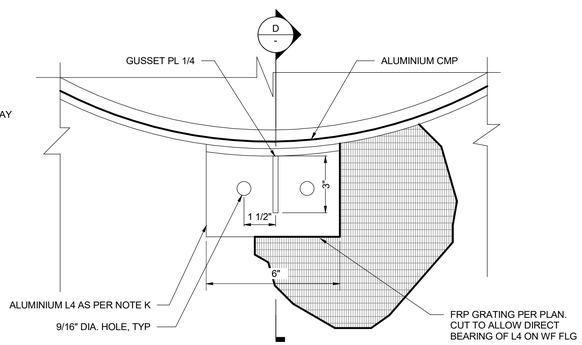
B 3M-10 SECTION
SCALE: 3/4" = 1'-0"



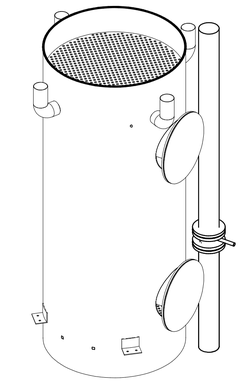
C ISOMETRIC VIEW 1
SCALE: 3/8" = 1'-0"



D SECTION
SCALE: 1/4" = 1'-0"



E DETAIL
SCALE: NO SCALE



F ISOMETRIC VIEW 2
NO SCALE

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING
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TULALIP TRIBES

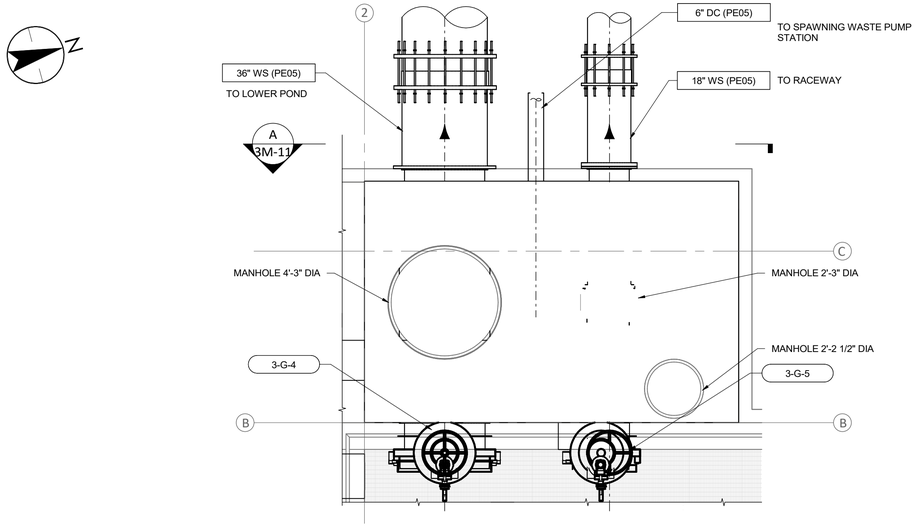
TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

DISTRIBUTION BOX AERATION SYSTEM DETAILS

DESIGNED B. WELTON
DRAWN M. TRACY
CHECKED J. DALLAS
ISSUED DATE 06/29/26

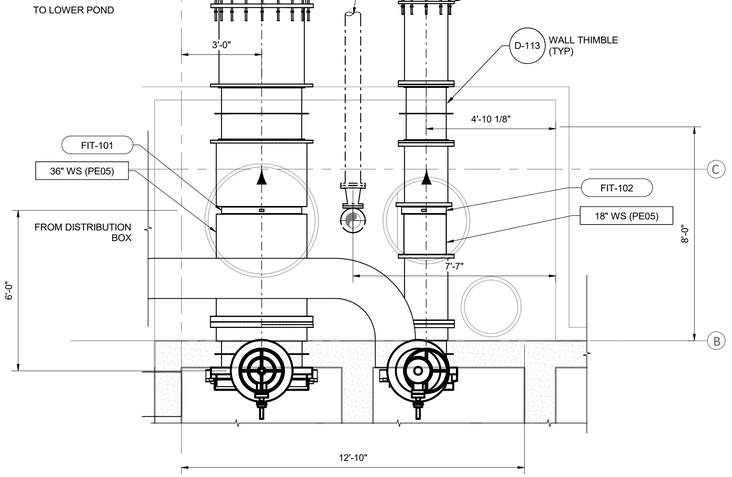
DRAWING
3M-10

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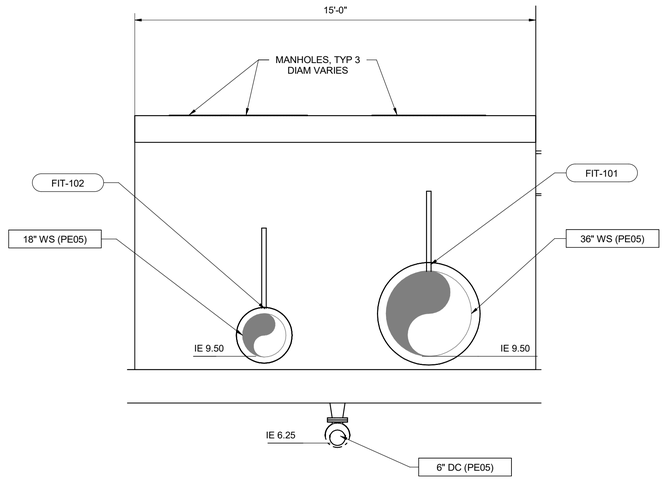
1 3M-1 DISTRIBUTION BOX AND METERING VAULTS UPPER PLAN

SCALE: 3/8" = 1'-0"



2 3M-1 DISTRIBUTION BOX AND METERING VAULTS LOWER PLAN

SCALE: 3/8" = 1'-0"



A 3M-2 LOWER POND AND RACEWAYS SUPPLY METERING VAULT

SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

1. PROVIDE FLOW METERS WITH REMOTE TRANSMITTER MOUNTED TO DISTRIBUTION BOX WALL. COORDINATE LOCATION WITH OWNER.
2. MANHOLE AND VAULT LIDS SHALL BE INSTALLED FLUSH WITH SURROUNDING PAVEMENT. LID AND ACCESS HATCH SHALL BE HS-20 RATED FOR VEHICLE TRAFFIC.

SHEET KEYNOTES

A CHANNELIZE SLAB OF VAULT TOWARD FLOOR DRAIN WITH GROUT.

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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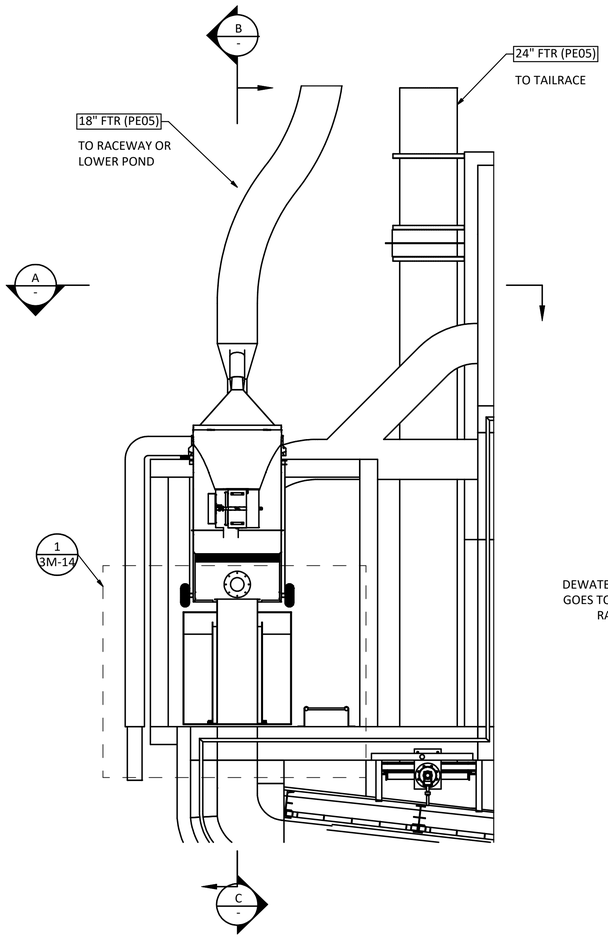
TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER POND AND RACEWAYS SUPPLY METERING VAULT PLAN AND SECTIONS

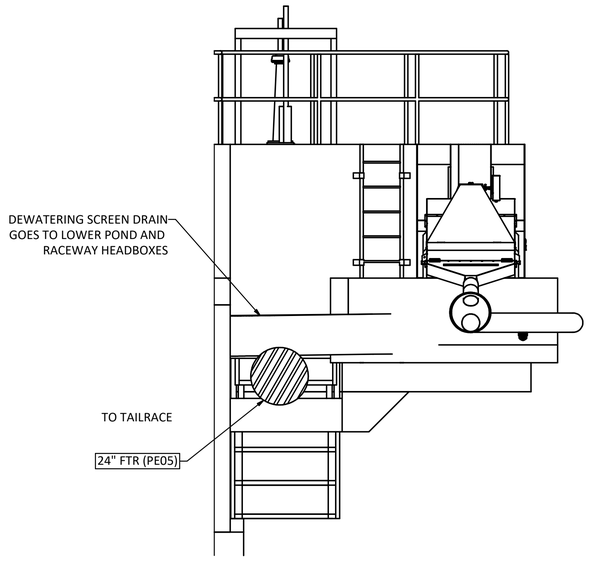
DESIGNED M. VASILEV
DRAWN M. TRACY
CHECKED J. DALLAS
ISSUED DATE 06/29/26

DRAWING
3M-11

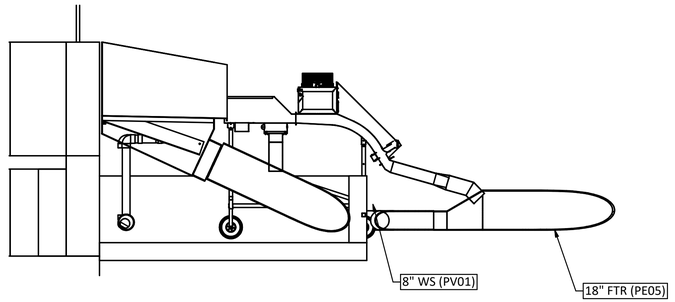
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0265863m-mdrev.rvt



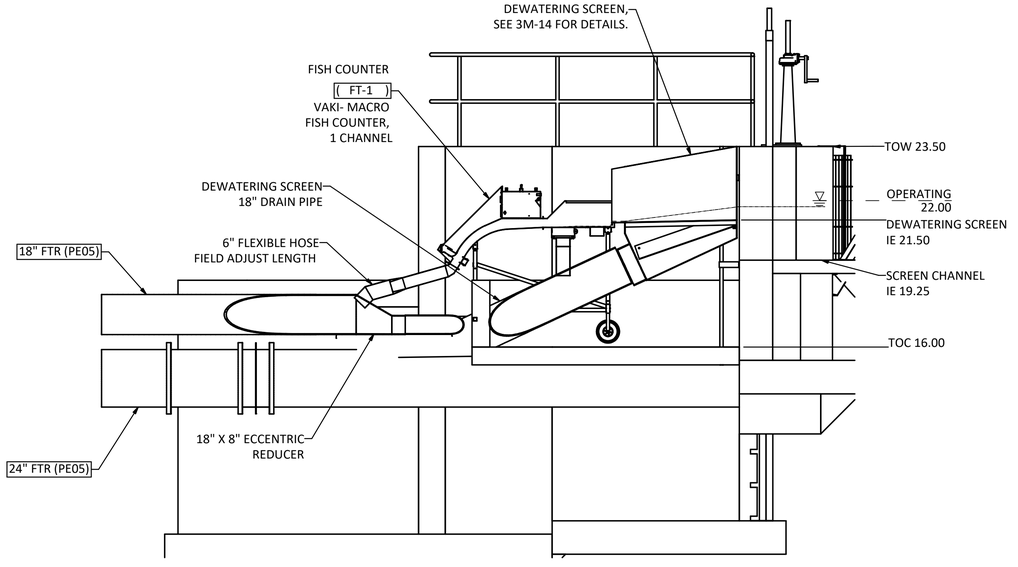
1 / 3M-1 DETAIL FISH COUNTING BASIN
SCALE: 3/8"=1'-0"



A / - SECTION
SCALE: 3/8"=1'-0"



B / - SECTION
SCALE: 3/8"=1'-0"



C / - SECTION
SCALE: 3/8"=1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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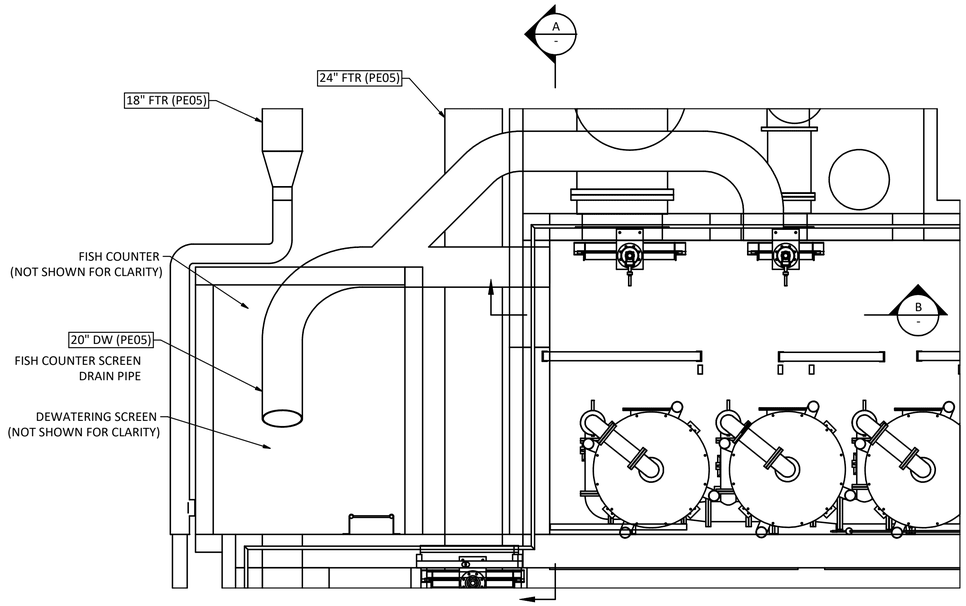
TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
FISH COUNTER BASIN SECTIONS

DESIGNED B. WELTON
DRAWN M. TRACY
CHECKED J. DALLAS
PROJECT DATE 06/29/2026

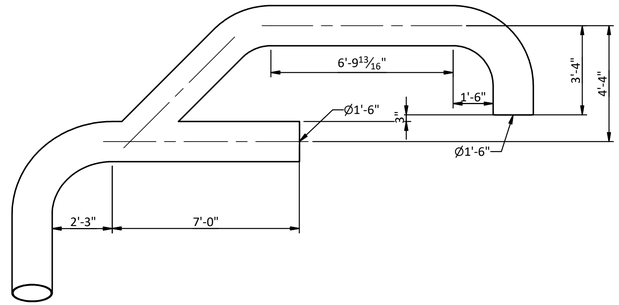
DRAWING
3M-12

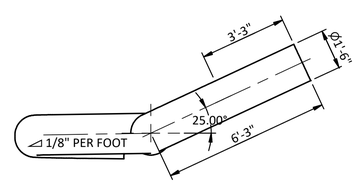
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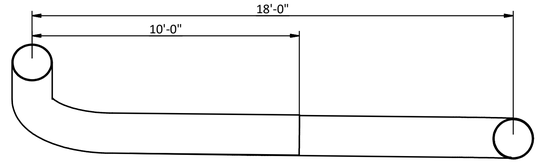


FISH COUNTER BASIN PIPING

SCALE: 3/4"=1'-0"

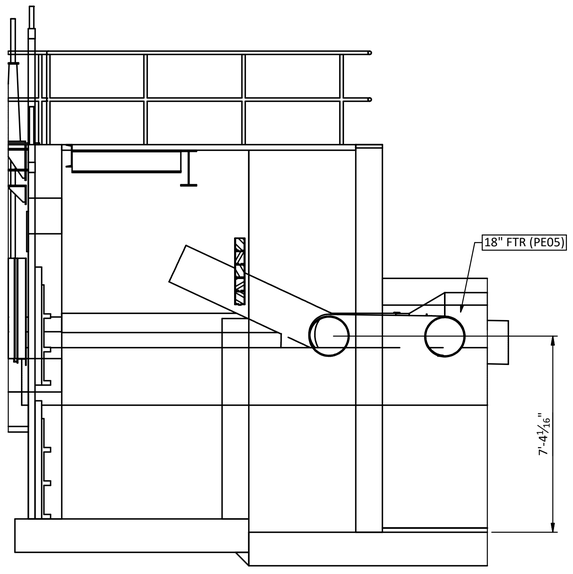






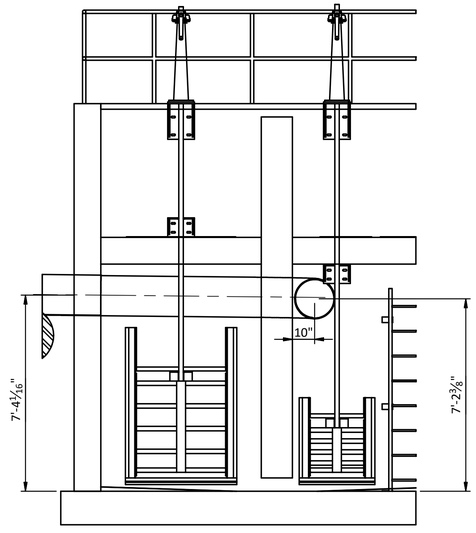
FISH COUNTER DRAIN PIPE

SCALE: 3/8"=1'-0"



A - SECTION

SCALE: 3/8"=1'-0"



B - SECTION

SCALE: 3/8"=1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

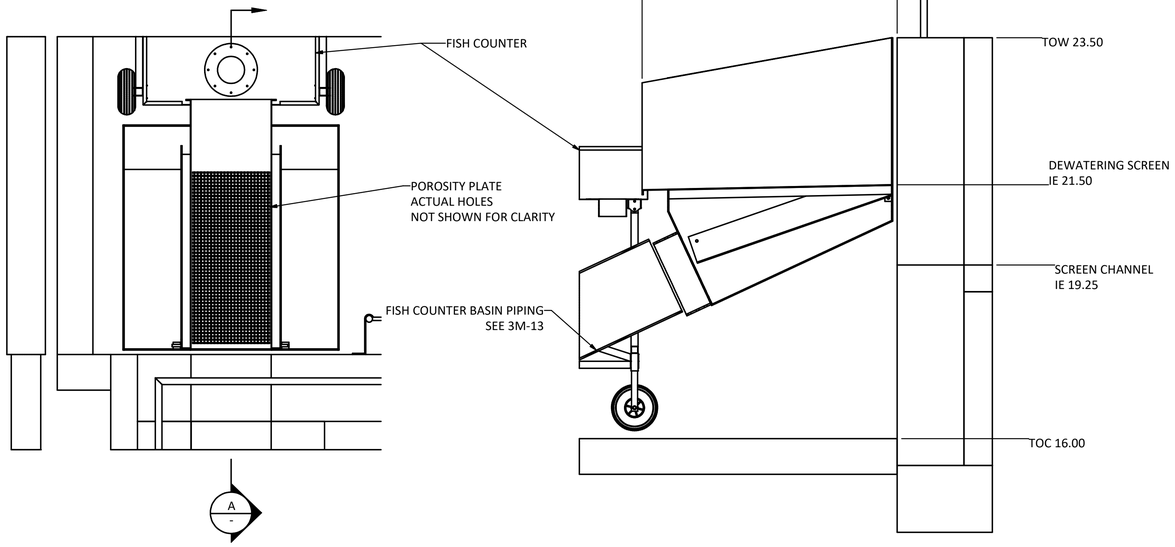
FISH COUNTER BASIN PIPING

DESIGNED B. WELTON
DRAWN M. TRACY
CHECKED J. DALLAS
PROJECT DATE 06/29/2026

DRAWING 3M-13

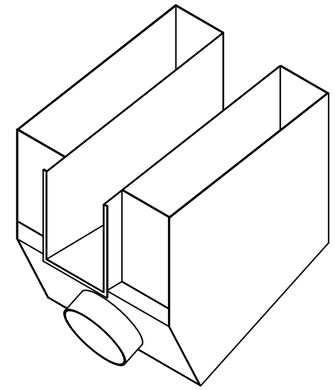
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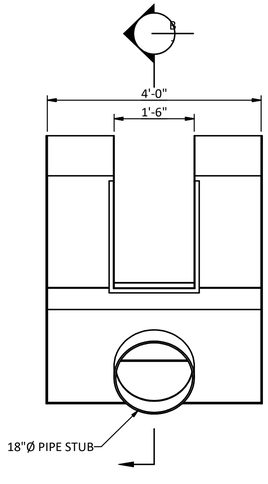


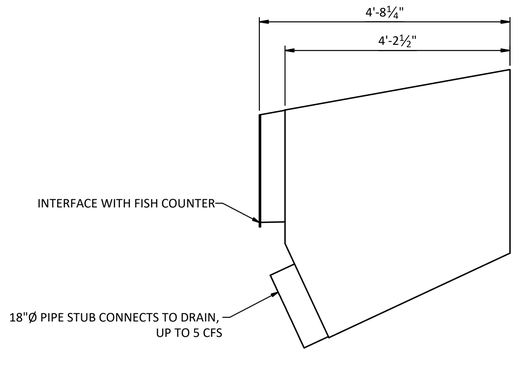
1 / 3M-12 DETAIL
SCALE: 3/4"=1'-0"

A / - SECTION
SCALE: 3/4"=1'-0"

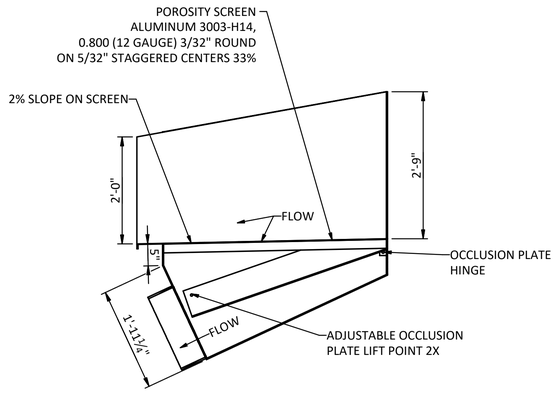


DEWATERING SCREEN ASSEMBLY ISO
SCALE: NTS





DEWATERING SCREEN ASSEMBLY
SCALE: 3/4"=1'-0"



B / - SECTION
SCALE: 3/4"=1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FISH COUNTER BASIN
DEWATERING SCREEN SYSTEM

DESIGNED B. WELTON
DRAWN M. TRACY
CHECKED J. DALLAS
PROJECT DATE 06/29/2026

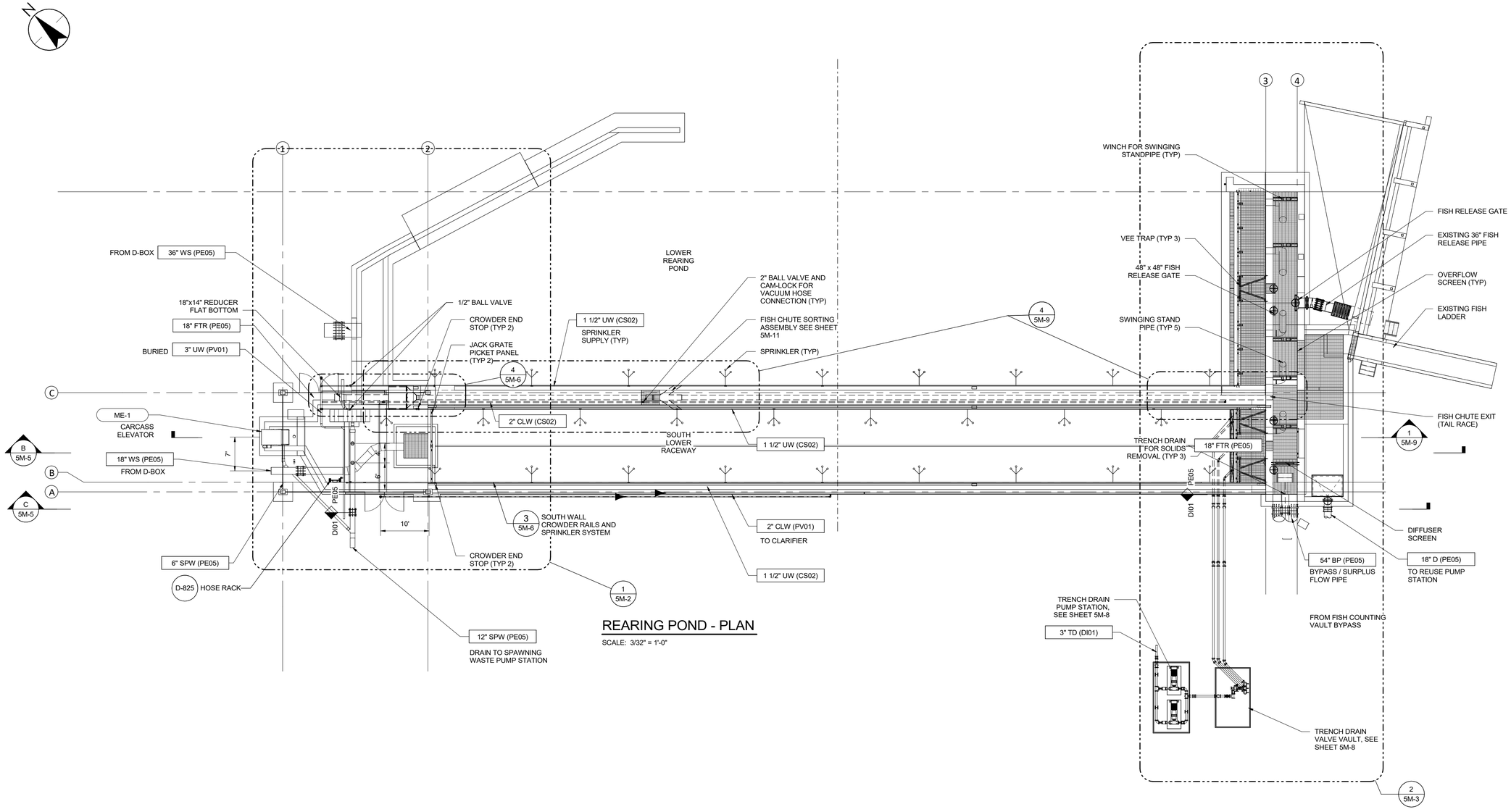
DRAWING
3M-14

JOB NO:

Path:C:\Vault\Tulalip Tribe\26-017 Tulalip Creek Lower Pond Improvements Project Redesign\Designs\Drawings\Area 3 Flow Distr 3M.dwg

GENERAL SHEET NOTES

1. ADJUSTABLE BUMPER CRANE STOP RRT-40 LB BUMPER STOP. INSTALL 2 PER RAIL, ONE AT EACH END.
2. THE MONORAIL FOR THE FISH SCREEN HOIST SHALL BE A STRUCTURAL S-SHAPE SIZED BY THE HOIST SUPPLIER TO ACCOMMODATE THE GEAR DRIVEN HOIST TROLLEY AND THE MONORAIL SUPPORT COLUMN LAYOUT. THE MONORAIL SIZING AND CONNECTION DETAILS TO THE SUPPORTS SHALL BE DESIGNED BY THE HOIST SUPPLIER OR A DESIGNER HIRED BY THE HOIST SUPPLIER. CALCULATIONS FOR THE MONORAIL SIZING AND CONNECTIONS TO THE STRUCTURAL SUPPORT COLUMNS SHALL BE PREPARED BY A RPOFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON AND SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. SEE SPECIFICATION 43 52 04.



REARING POND - PLAN

SCALE: 3/32" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING
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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER RACEWAYS AND POND MECHANICAL PLAN

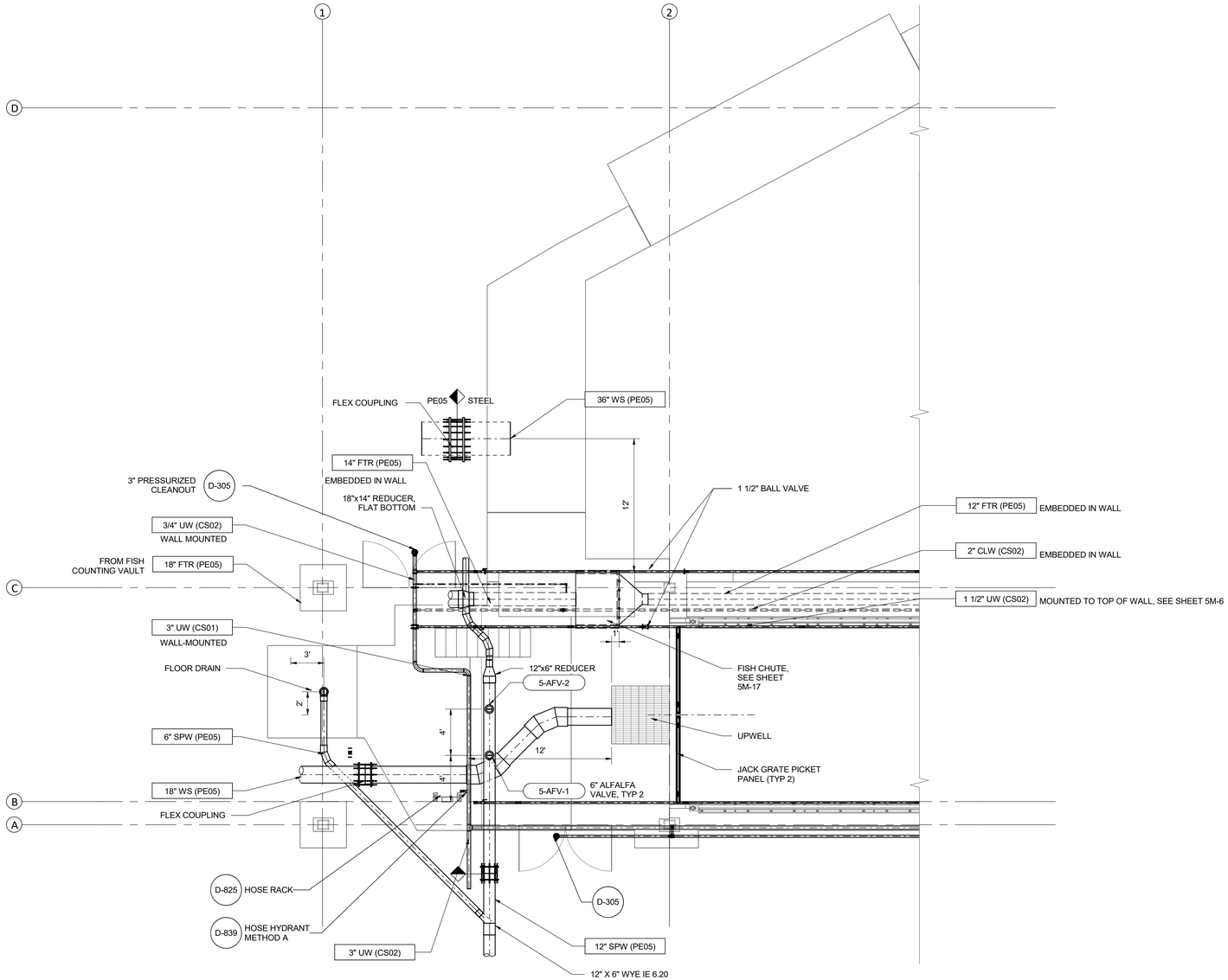
DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

DRAWING
5M-1

Exhibit E.1 Page 122 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt

GENERAL SHEET NOTES



1 / 5M-1 SUPPLY END ENLARGED PLAN

SCALE: 3/16" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER RACEWAYS AND POND SUPPLY END ENLARGED PLAN

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

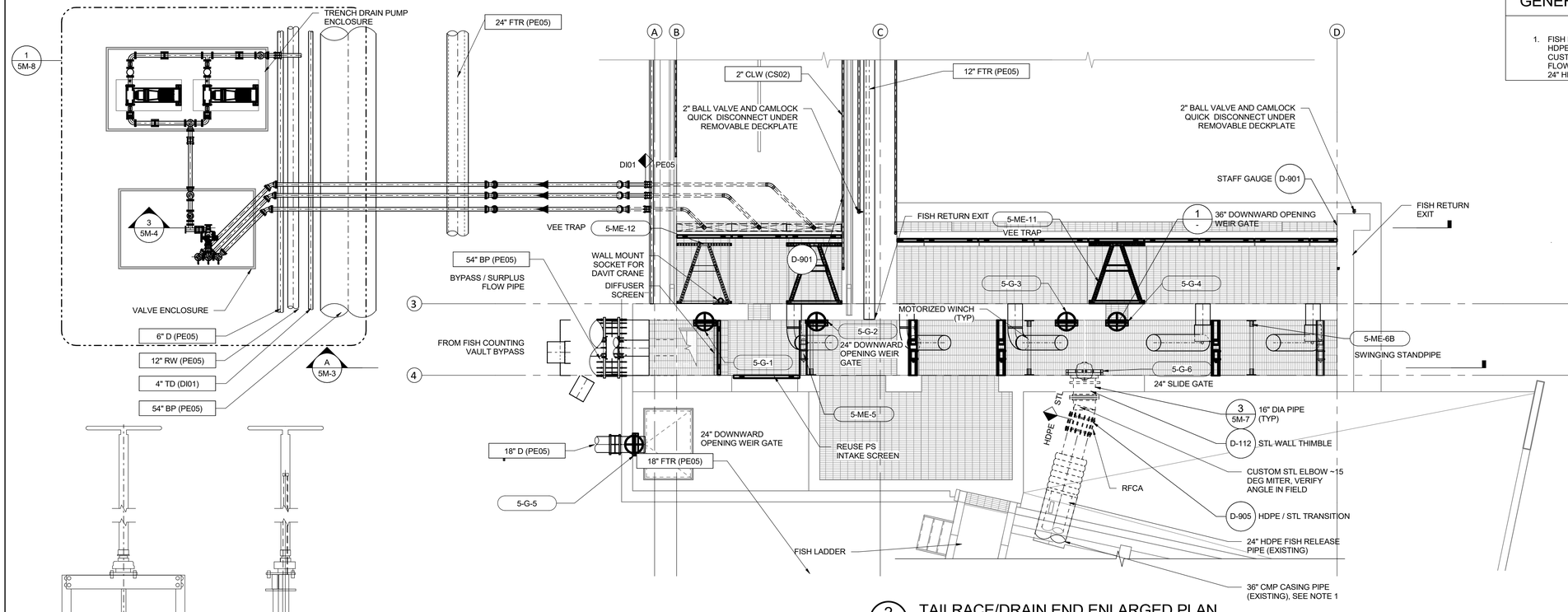
DRAWING 5M-2

Exhibit E.1 Page 123 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt

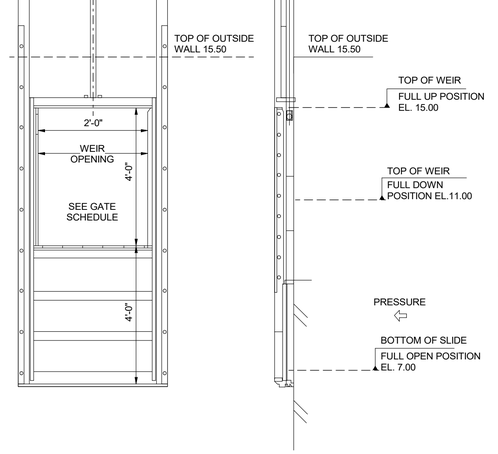
GENERAL SHEET NOTES

1. FISH RELEASE PIPE CONSISTS OF A 36" CMP CASING PIPE WITH A 24" SLIPLINED HDPE PIPE INSIDE. CUT BACK CMP CASING TO INSTALL STL WALL THIMBLE, CUSTOM 15 DEG STL MITER ELBOW, RFCA, AND HDPE/STL TRANSITION. FLOWABLE GROUT TO FILL IN ANNULAR SPACE BETWEEN 36" CASING PIPE AND 24" HDPE PIPE.



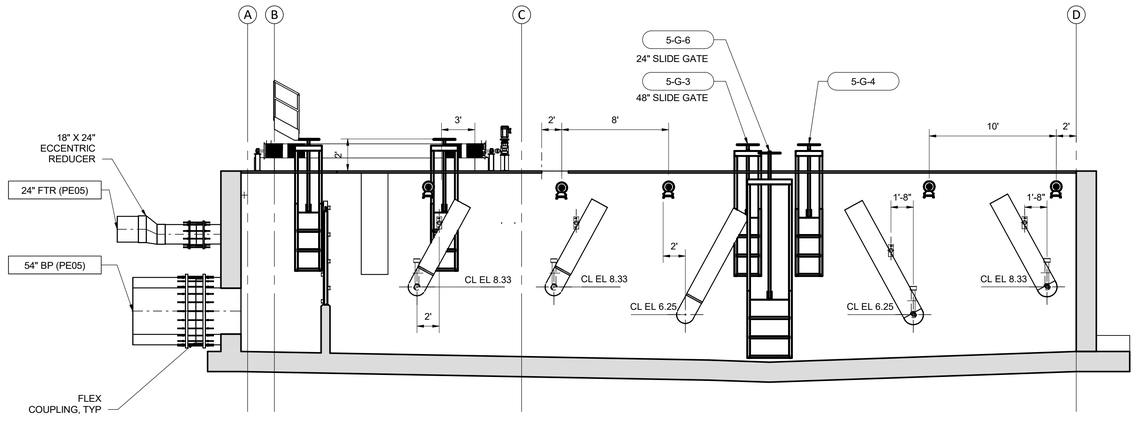
2 TAILRACE/DRAIN END ENLARGED PLAN

SCALE: 3/16" = 1'-0"



1 GATE ASSEMBLY

SCALE: 3/16" = 1'-0"



A SECTION - TAILRACE

SCALE: 3/16" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER RACEWAYS AND POND
TAILRACE ENLARGED PLAN

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

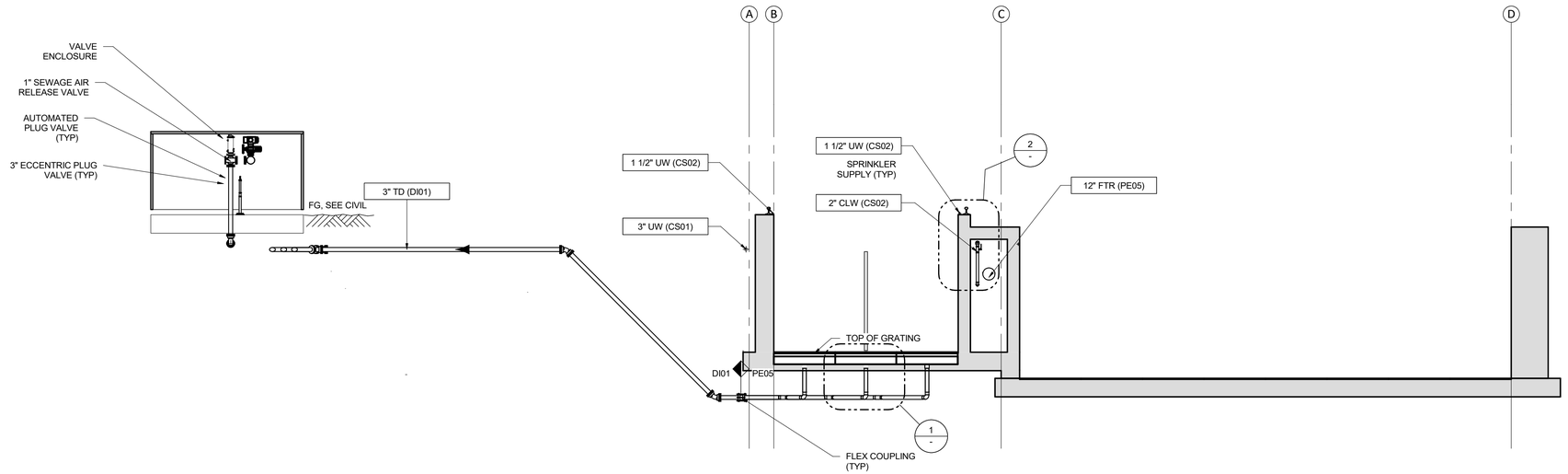
DRAWING
5M-3

Exhibit E.1 Page 124 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt

GENERAL SHEET NOTES

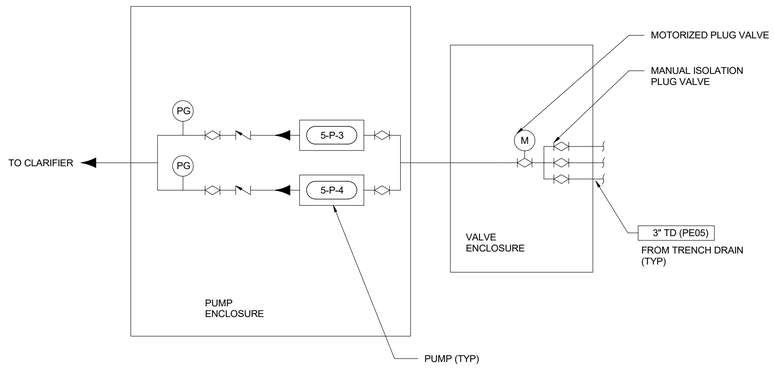
1. TRENCH DRAIN SHALL BE FABRICATED FROM 1/8" GALVANIZED PLATE AND EMBEDDED IN CONCRETE FLOOR SLAB FLUSH WITH THE FLOOR.
2. GRATING SHALL BE MCNICHOLS 640131413L GALVANIZED BAR GRATING 1" X 3/16" OR APPROVED EQUAL. GRATING SHALL HAVE 1/4" MAXIMUM CLEAR OPENING BETWEEN THE BARS.



3 SECTION - LOWER POND / RACEWAY DRAIN

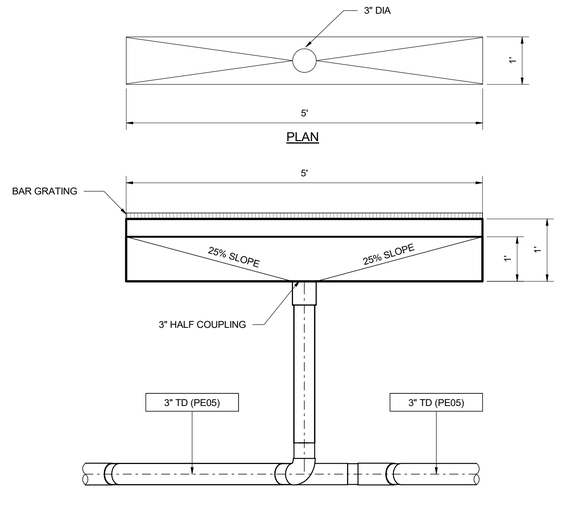
5M-3

SCALE: 3/16" = 1'-0"



TRENCH DRAIN PROCESS LINE DIAGRAM

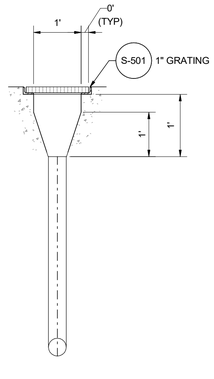
SCALE: NTS

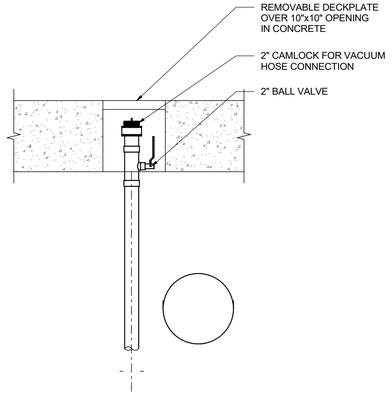


1 TRENCH DRAIN DETAILS

-

SCALE: 1" = 1'-0"





2 DETAIL

-

SCALE: 1" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

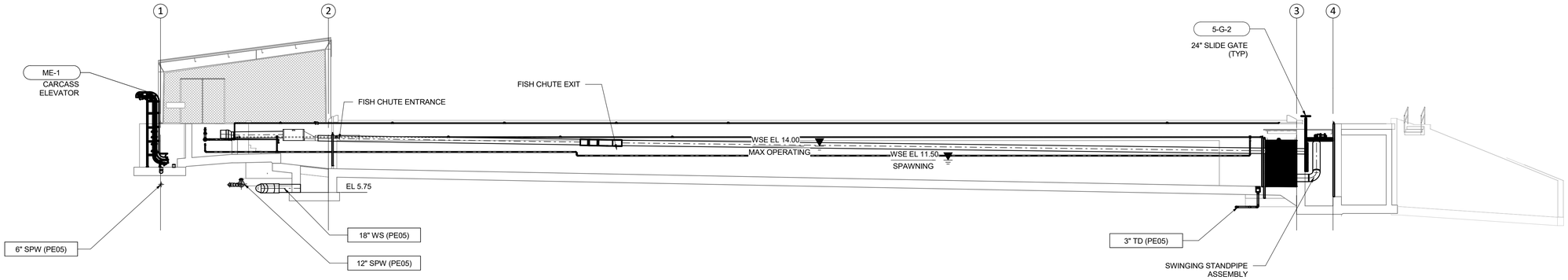
LOWER RACEWAYS AND POND
TRENCH DRAIN
SECTIONS AND DETAILS

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

DRAWING
5M-4

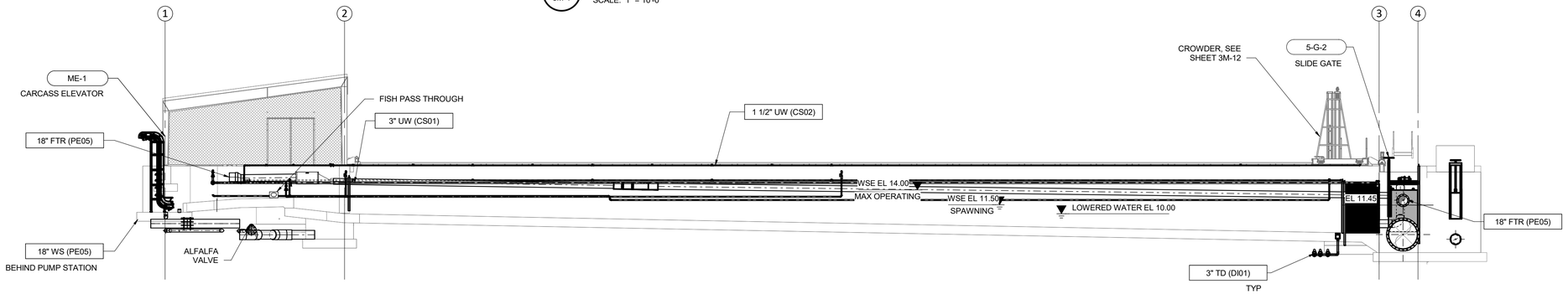
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Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt



B 5M-1 LOWER POND RACEWAY SECTION

SCALE: 1" = 10'-0"



C 5M-1 SOUTH LOWER RACEWAY SECTION

SCALE: 1" = 10'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

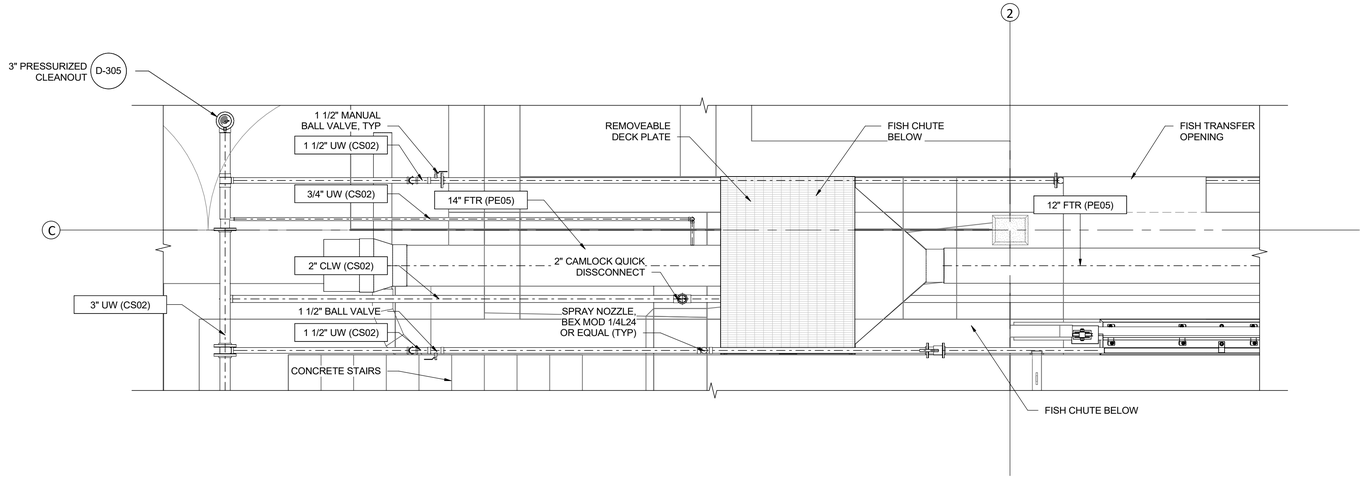
LOWER RACEWAYS AND POND SECTIONS

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

DRAWING
5M-5

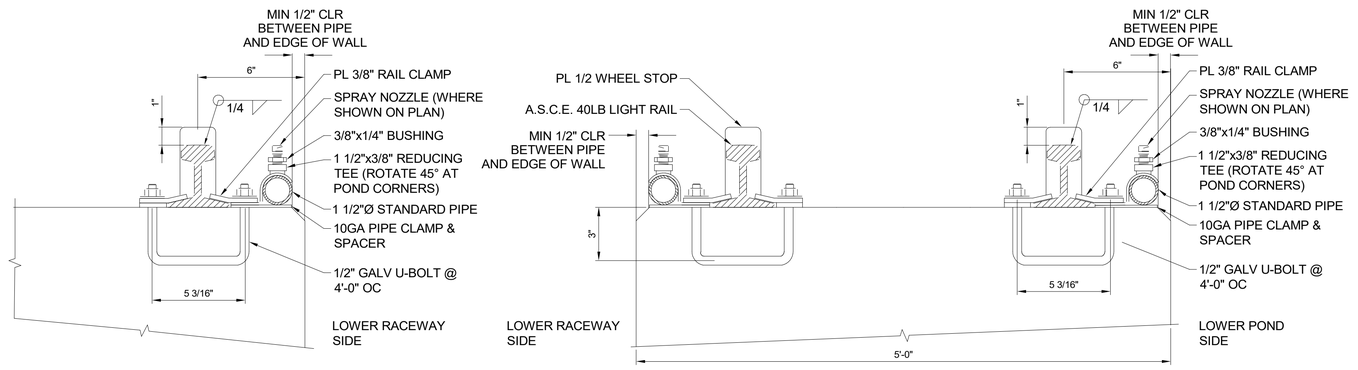
Exhibit E.1 Page 126 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt



4 5M-1 **RAIL AND SPRINKLER PLAN DETAIL**

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



1 5M-1 **SOUTH WALL**

NO SCALE

2 5M-1 **CENTER WALL**

NO SCALE

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

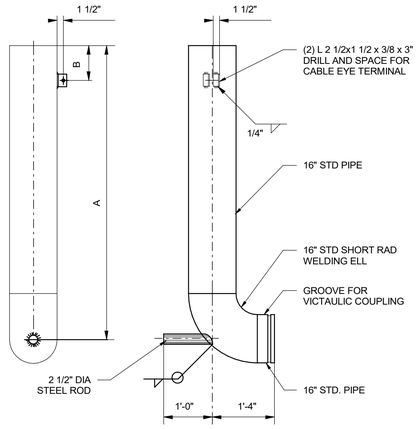
LOWER RACEWAYS AND POND
CROWDER RAILS
DETAILS AND SECTIONS

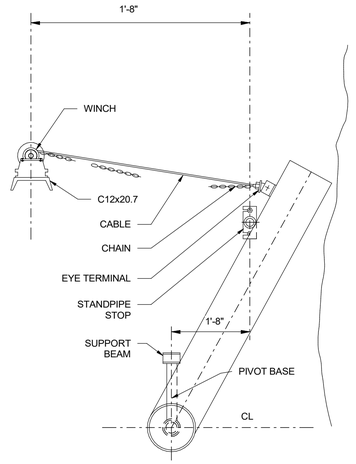
DESIGNED LR
DRAWN STN
CHECKED DW
ISSUED DATE 06/29/2026

DRAWING
5M-6

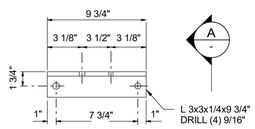
Exhibit E.1 Page 127 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt



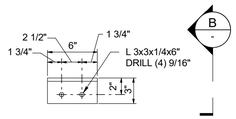


SWINGING STANDPIPE SCHEDULE		
DIM	RACEWAY	LOWER POND
A	8'-0"	9'-10 1/2"
B	1'-1 1/4"	1'-2 1/2"
CL EL	7.33'	5.34'



WIDE FLANGE ANGLE

1 DETAIL - WIDE FLANGE ANGLE
NO SCALE

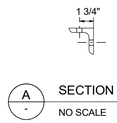


SUPPORT BEAM ANGLE

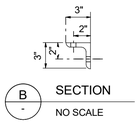
4 DETAIL - SUPPORT BEAM ANGLE
NO SCALE

STANDPIPE STOP SHIM

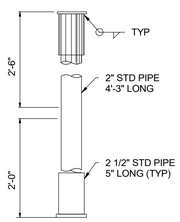
3 DETAIL - PIVOT BASE
NO SCALE



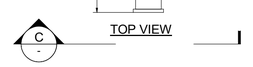
A SECTION
NO SCALE



B SECTION
NO SCALE



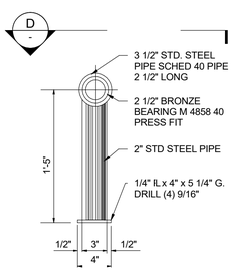
TOP VIEW



STANDPIPE STOP

END VIEW

C SECTION - STANDPIPE STOP
NO SCALE



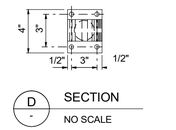
FRONT VIEW

PIVOT BASE

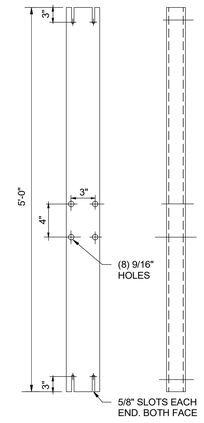
5 DETAIL - PIVOT BASE
NO SCALE

PIVOT BASE ANCHOR PLATE

6 DETAIL - PIVOT BASE ANCHOR PLATE
NO SCALE

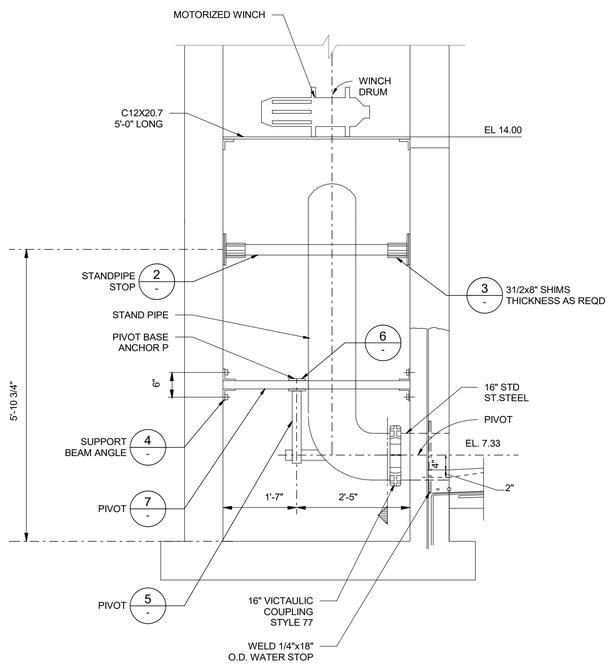


D SECTION
NO SCALE



PIVOT SUPPORT BEAM

7 DETAIL - PIVOT BASE ANCHOR PLATE
NO SCALE



5M-3

3 SWINGING STANDPIPE
NO SCALE

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER RACEWAYS
AND POND
DRAIN END DETAILS

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

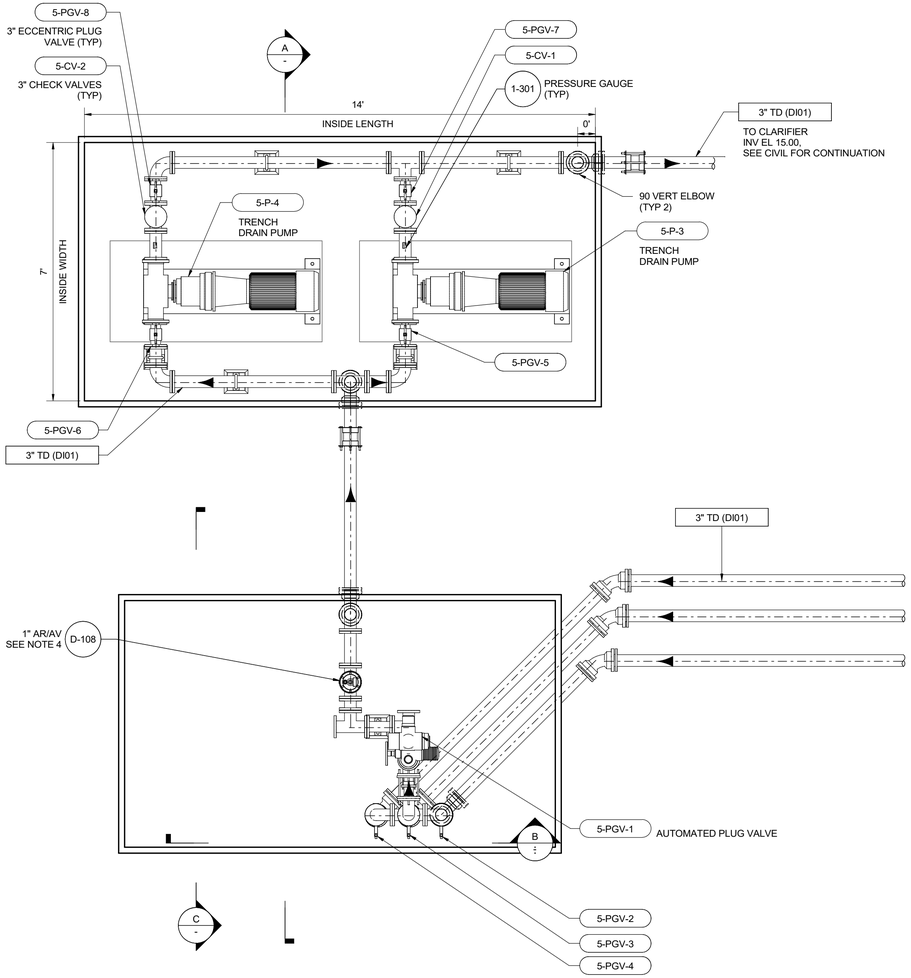
DRAWING
5M-7

Exhibit E.1 Page 128 of 161

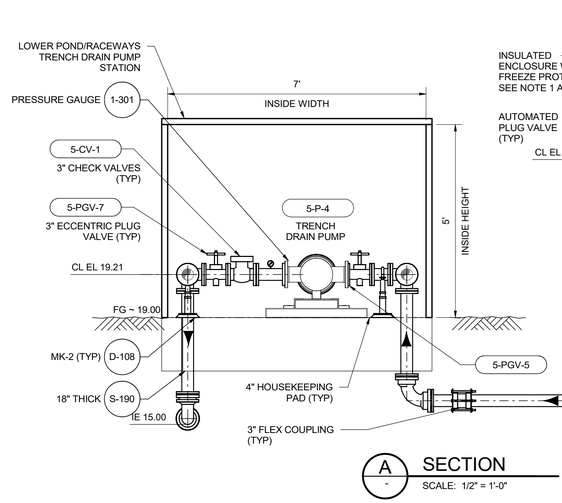
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt

GENERAL SHEET NOTES

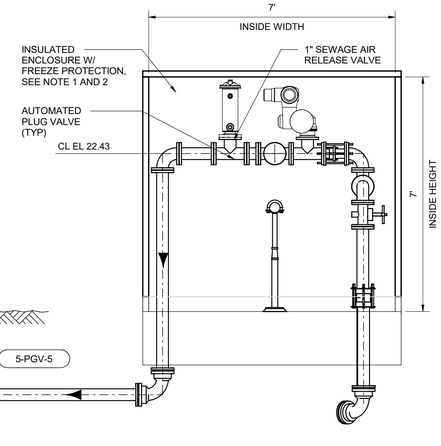
1. INSULATED VALVE ENCLOSURE SHALL BE HOT BOX MODEL HA083145074 HB8E-DS OR EQUAL. PROVIDE SUBMITTALS FOR ENCLOSURE, INCLUDING SHOP DRAWINGS AND TECHNICAL MANUALS, IN ACCORDANCE WITH SECTION 013300. CONTRACTOR TO VERIFY EQUIPMENT LAYOUT INSIDE ENCLOSURE PRIOR TO ORDERING. PROVIDE LARGER ENCLOSURE, IF NECESSARY, TO ACCOMMODATE EQUIPMENT SELECTIONS.
2. INSULATED PUMP ENCLOSURE SHALL BE HOT BOX MODEL HA087172065 HB10N-DS OR EQUAL. PROVIDE SUBMITTALS FOR ENCLOSURE, INCLUDING SHOP DRAWINGS AND TECHNICAL MANUALS, IN ACCORDANCE WITH SECTION 013300. CONTRACTOR TO VERIFY EQUIPMENT LAYOUT INSIDE ENCLOSURE PRIOR TO ORDERING. PROVIDE LARGER ENCLOSURE, IF NECESSARY, TO ACCOMMODATE EQUIPMENT SELECTIONS.
3. PUMP TO BE ROTARY LOBE PUMP OR SCREW CENTRIFUGAL PUMP IN ACCORDANCE WITH SECTION 43 23 58 LOBE PUMPS.
4. ROUTE AIR VALVE DRAINAGE DISCHARGE TO OUTSIDE OF HOT BOX.

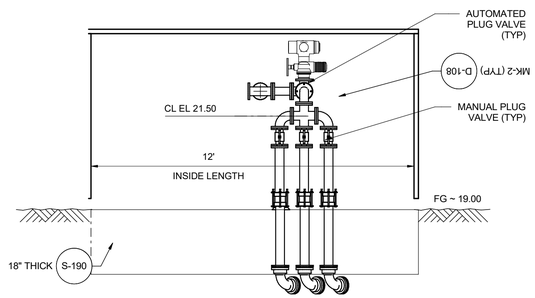


1 5M-3 PLAN
SCALE: 1/2" = 1'-0"

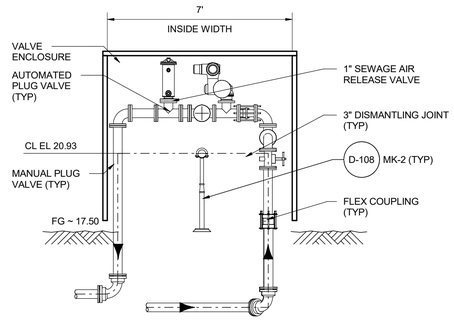


A - SECTION
SCALE: 1/2" = 1'-0"





B - SECTION
SCALE: 3/8" = 1'-0"



C - SECTION
SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

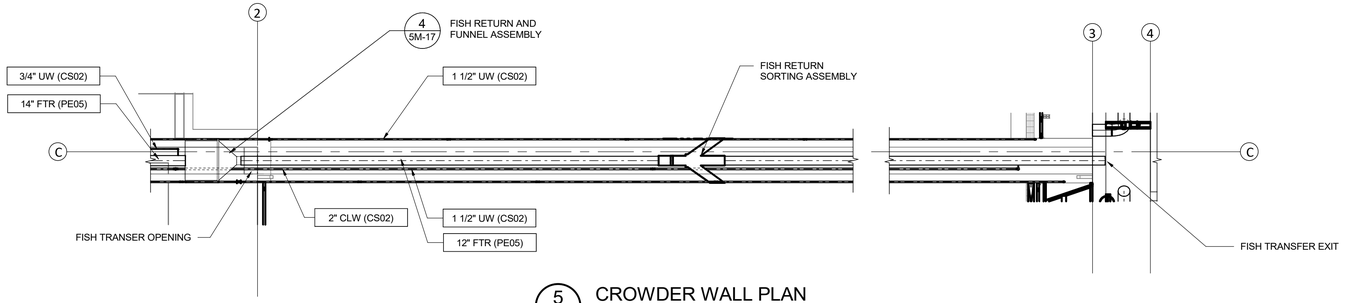
LOWER RACEWAYS AND
POND DRAIN END DETAILS

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

DRAWING
5M-8

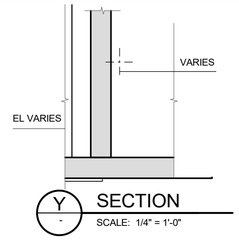
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Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt



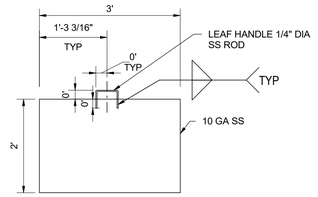
5 5M-1 CROWDER WALL PLAN

SCALE: 1/8" = 1'-0"



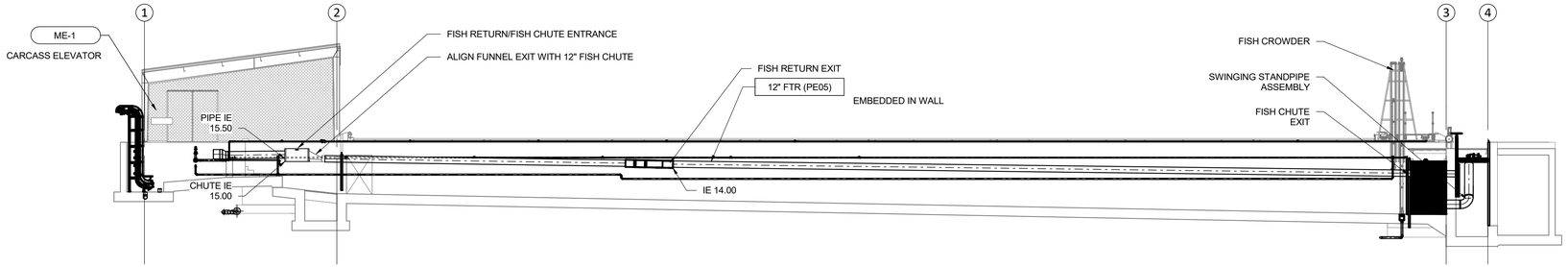
Y - SECTION

SCALE: 1/4" = 1'-0"



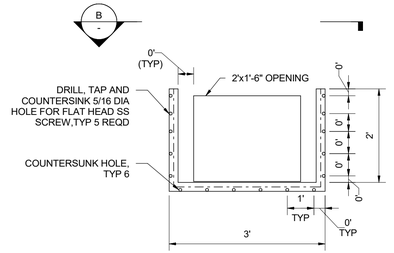
FISH RETURN EXIT GATE LEAF DETAIL

SCALE: 3/4" = 1'-0"



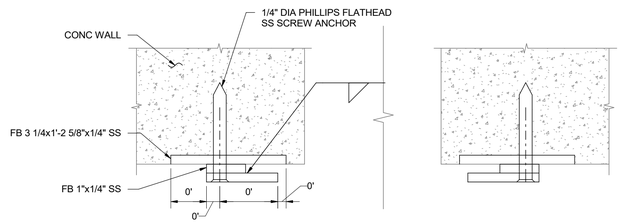
1 - LOWER POND / RACEWAY CROWDER WALL SECTION

SCALE: 3/32" = 1'-0"



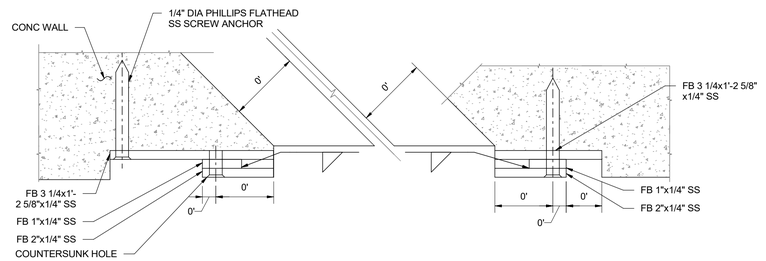
2 - FISH RETURN EXIT GUIDE DETAIL

SCALE: 3/4" = 1'-0"



A - SECTION

SCALE: 6" = 1'-0"



B - SECTION

SCALE: 6" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FISH CHUTE ENTRY
RETURN PLANS AND SECTIONS

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

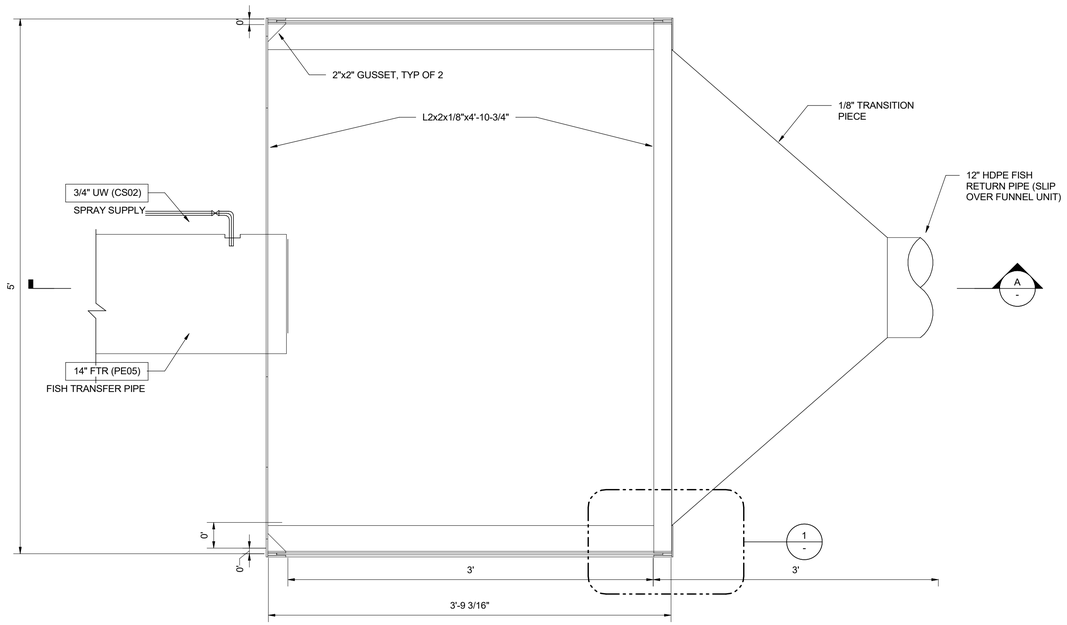
DRAWING
5M-9

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Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt

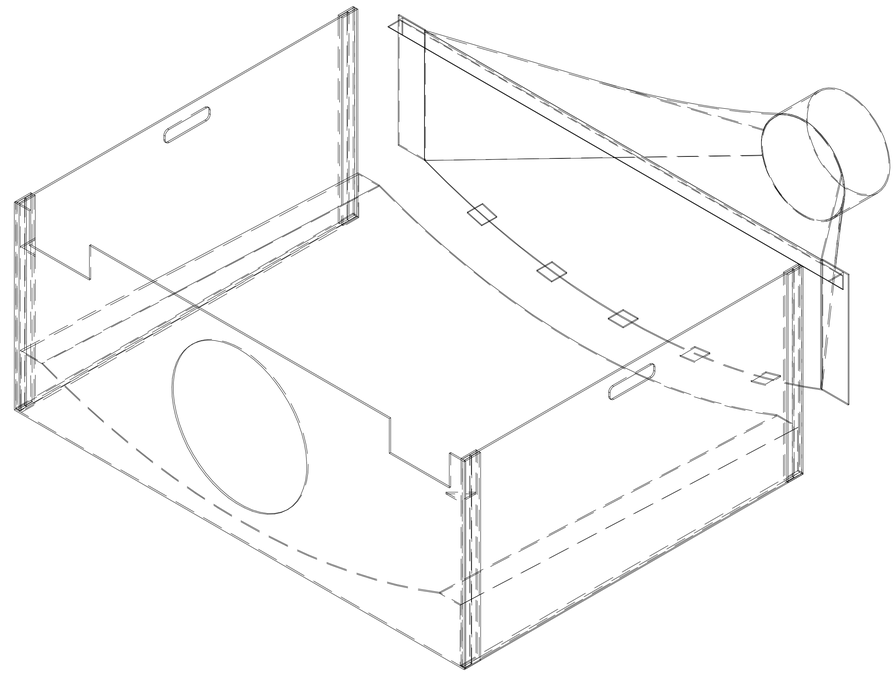
GENERAL SHEET NOTES

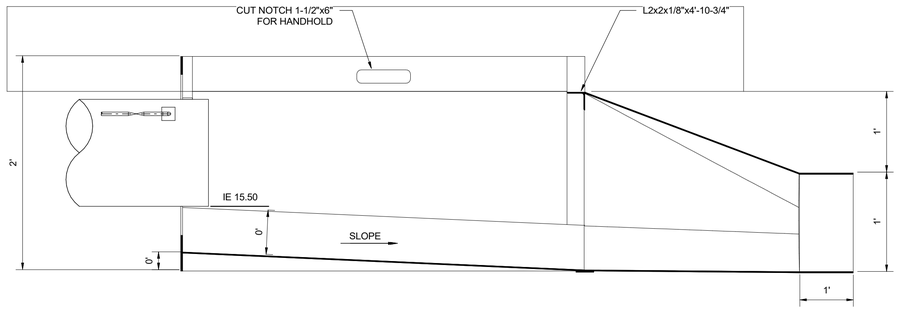
1. FISH CHUTE AND FUNNEL TO BE CONSTRUCTED OF FIBERGLASS OR STAINLESS STEEL MATERIAL UNLESS NOTED OTHERWISE.



FISH RETURN AND FUNNEL ASSEMBLY

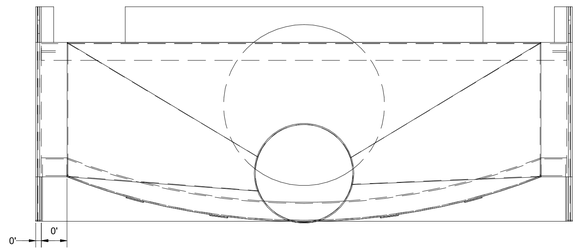
SCALE: 1 1/2" = 1'-0"





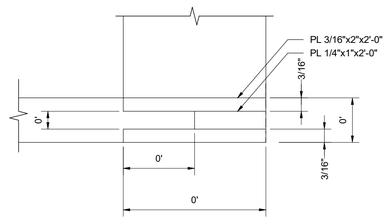
A - SECTION

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



FRONT VIEW

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



1 - DETAIL

SCALE: 12" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

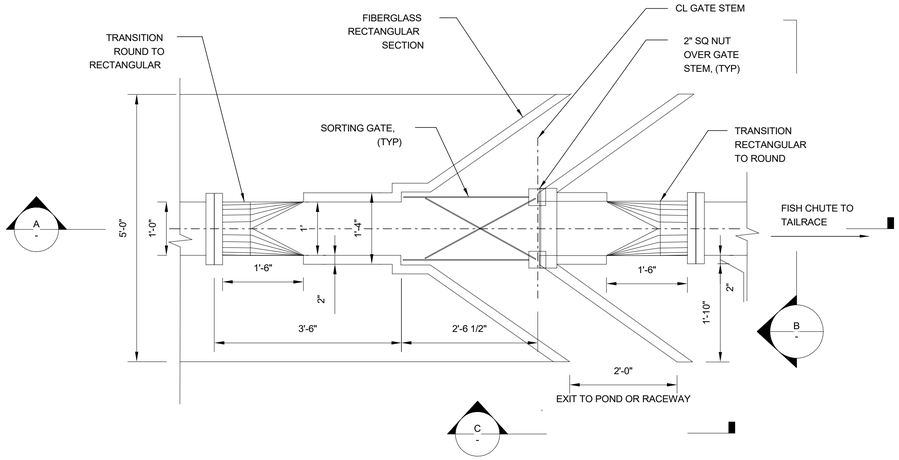
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FISH RETURN AND FUNNEL DETAILS

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

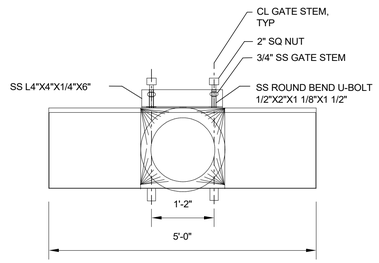
DRAWING
5M-10

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/0258655m-mid_A.rvt



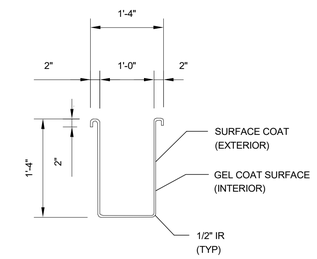
1 - FISH CHUTE SORTING ASSEMBLY PLAN

SCALE: 1/4" = 1'-0"



B - SECTION - END VIEW

SCALE: 1/4" = 1'-0"

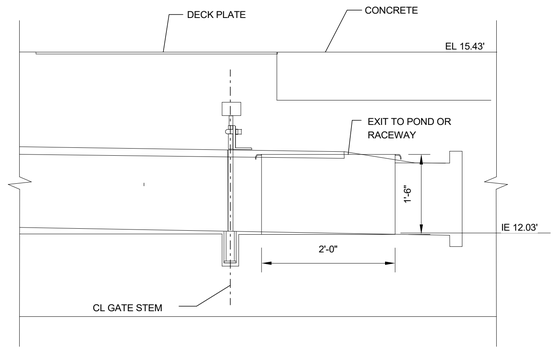


D - SECTION - TYP THROUGH SEC.

SCALE: 1/4" = 1'-0"

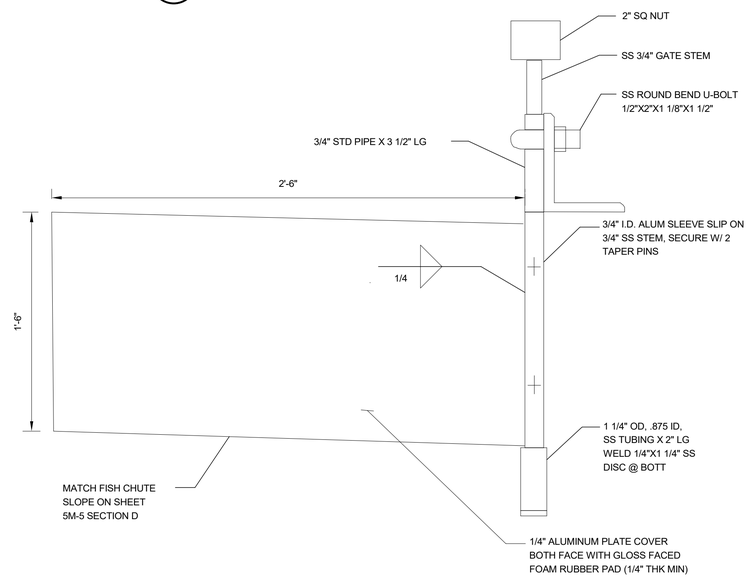
A - SECTION - FISH CHUTE SORTING ASSEMBLY

SCALE: 1/4" = 1'-0"



D - SECTION - IN WALL

SCALE: 1/4" = 1'-0"



1 - DETAIL - GATE STEM

SCALE: 1/4" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FISH RETURN SORTING ASSEMBLY DETAILS

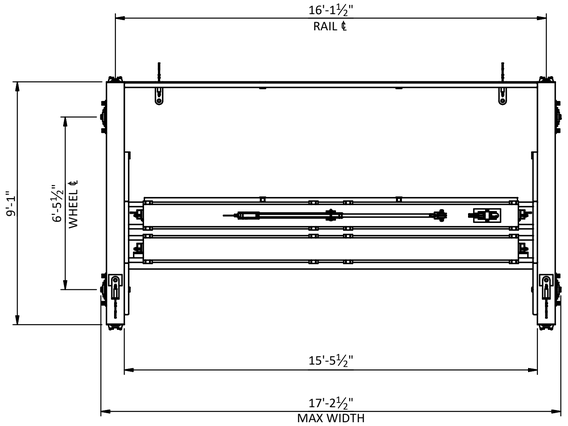
DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

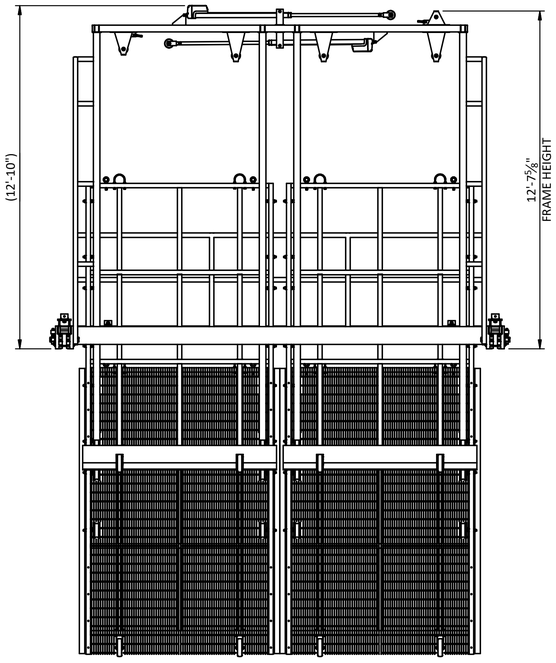
DRAWING 5M-11

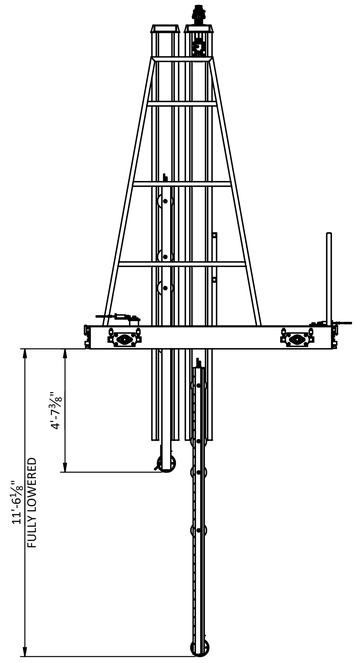
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt

SHEET NOTES:

1. USING THE JACKING BOLTS ADJUST WHEEL TO ENSURE CROWDER IS LEVEL AND THE CROWDER WEIGHT IS EVENLY DISTRIBUTED AMONG THE WHEELS.

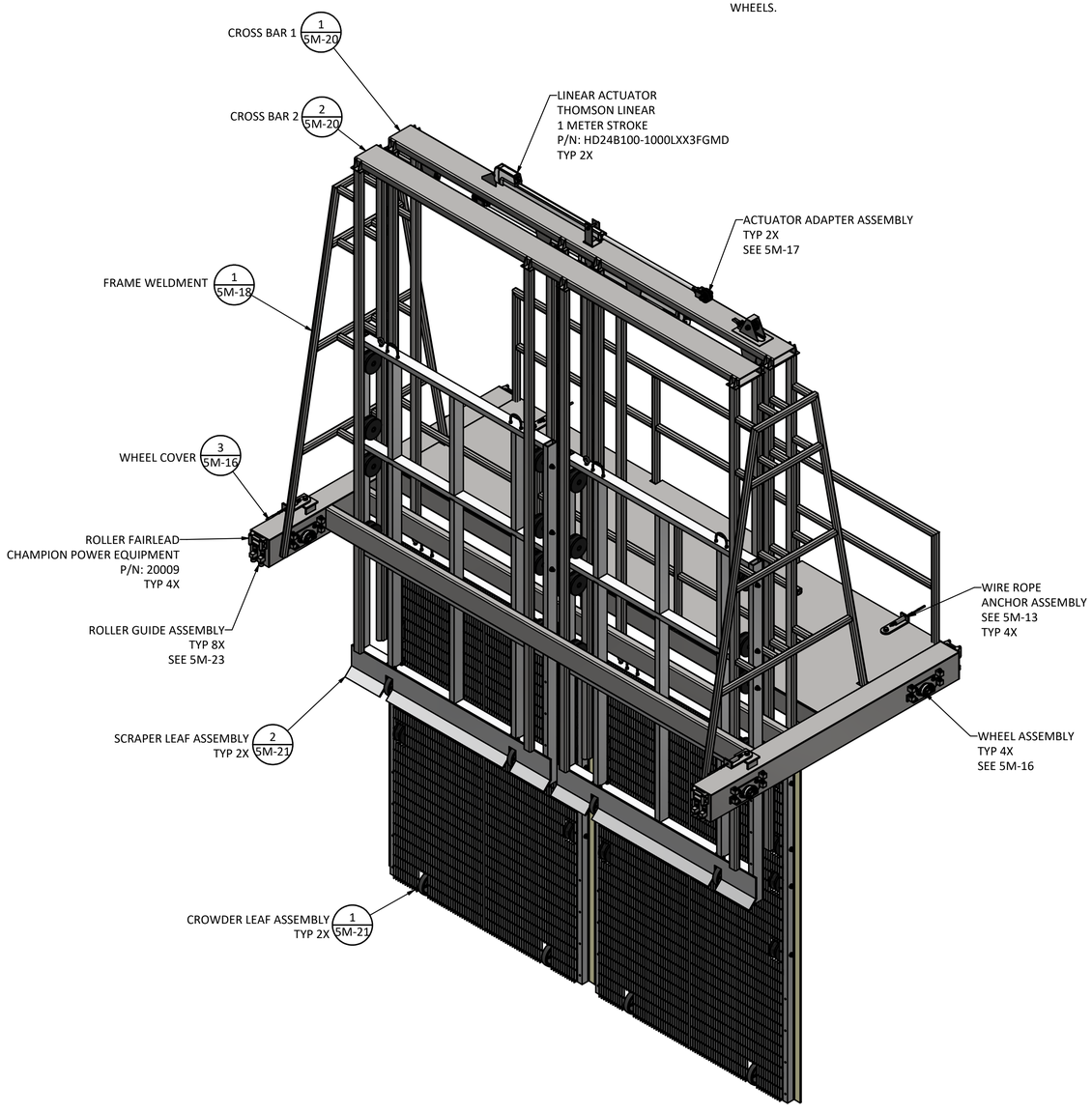






LOWER RACEWAY CROWDER

SCALE: 3/8" = 1'-0"



LOWER RACEWAY CROWDER- ISO

SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

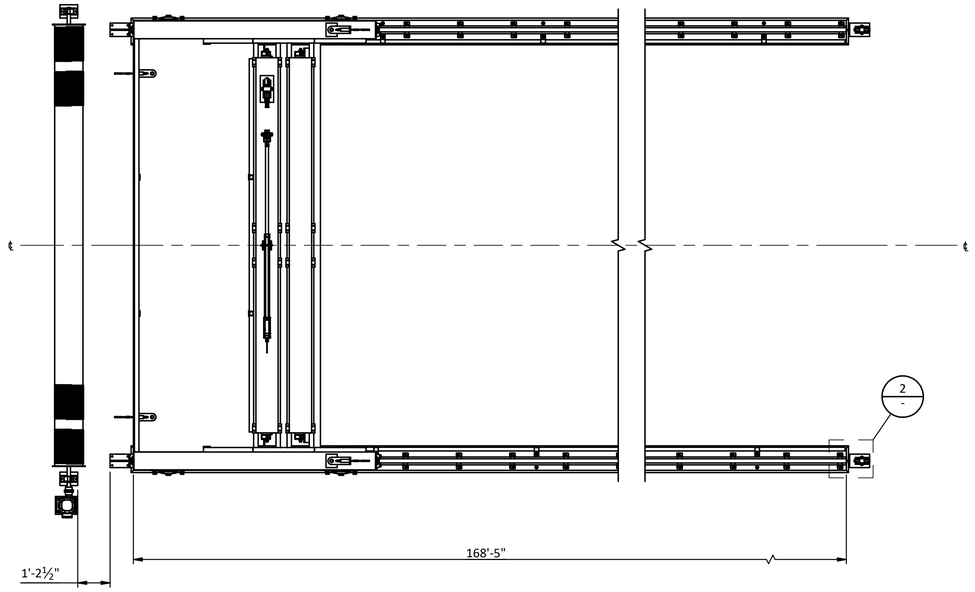
LOWER RACEWAY CROWDER
ASSEMBLY

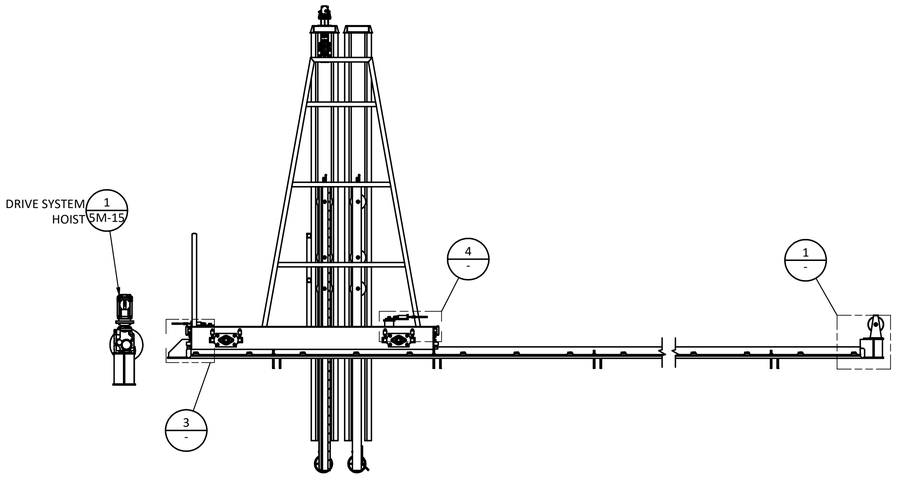
DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING
5M-12

JOB NO:

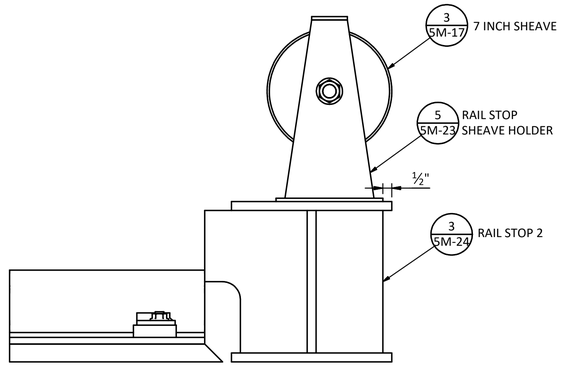
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CROWDER INSTALLATION

SCALE: 3/8" = 1'-0"

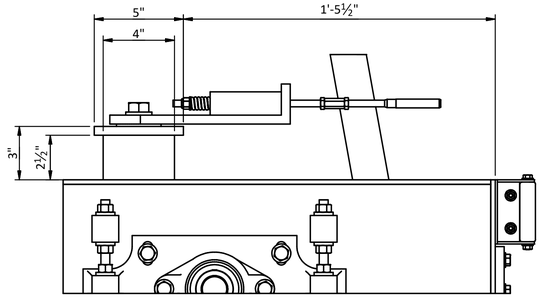


1 - DETAIL

SCALE: 3" = 1'-0"

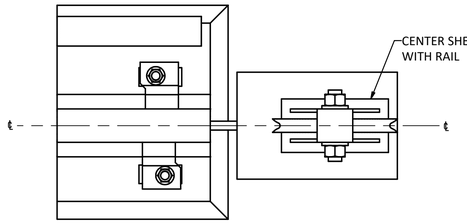
SHEET NOTES:

1. FLEET ANGLE MUST NOT EXCEED 1.5 DEGREES WHILE THE CROWDER IS OPERATIONAL.
2. WIRE ROPE IS TO BE TENSIONED SUCH THAT IT DOES NOT DRAG ON THE CROWDER FRAME DURING OPERATION.
3. INSTALL COMPRESSION SPRING TO ALLOW 1/4" MOVEMENT IN EACH DIRECTION. INSTALLATION TEMP MUST BE 60 DEGREES F.



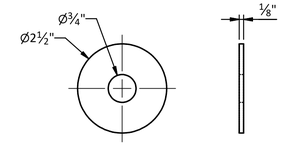
2 - DETAIL

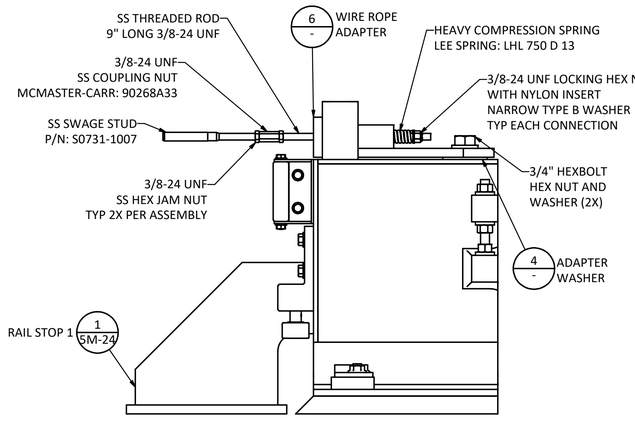
SCALE: 3" = 1'-0"



3 - DETAIL

SCALE: 3" = 1'-0"



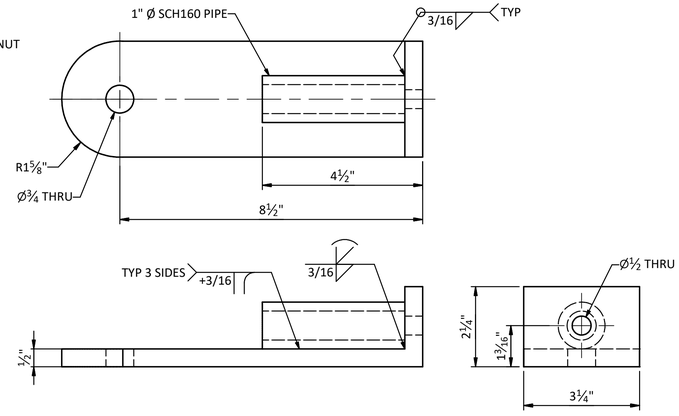


5 - DETAIL

SCALE: 3" = 1'-0"

4 - ADAPTER WASHER

SCALE: 6" = 1'-0"



6 - WIRE ROPE ADAPTER

SCALE: 6" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER RACEWAY CROWDER
RAIL INSTALLATION DETAILS

DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

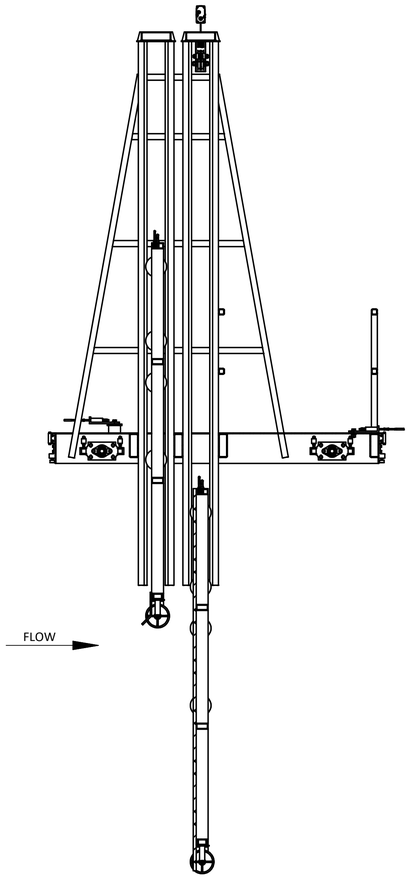
DRAWING
5M-13

JOB NO:

Path:C:\Vault\Tulalip Tribe\26-017 Tulalip Creek Lower Pond Improvements Project Redesign\Designs\Drawings\5M-X CROWDER.dwg

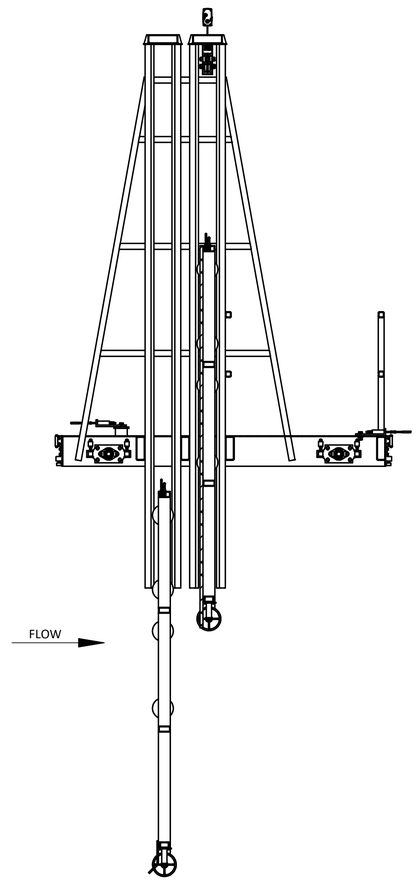
SHEET NOTES:

1. WELD IN ACCORDANCE WITH AWS D1.1



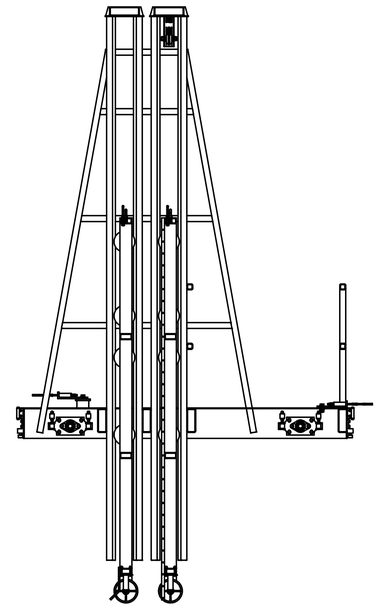
CROWDER - CROWDING LEAF DOWN

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



CROWDER - SCRAPING LEAF DOWN

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



CROWDER - PARKED

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

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

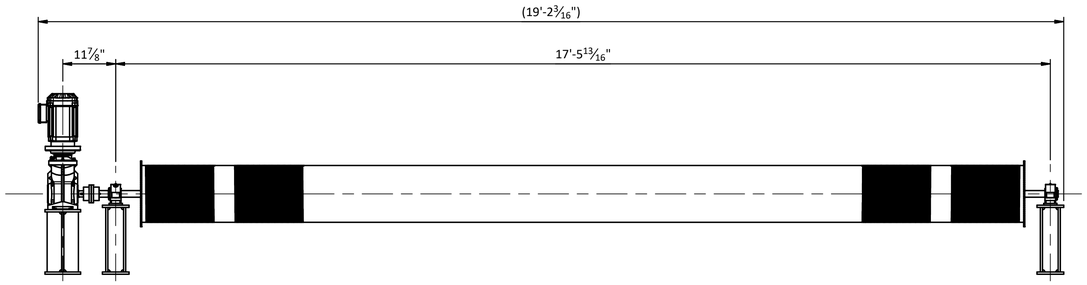
LOWER RACEWAY CROWDER
LIMIT SWITCH DETAILS

DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING
5M-14

JOB NO:

Path:C:\Vault\Tulalip Tribal\26-017 Tulalip Creek Lower Pond Improvements Project Redesign\1Designs\Drawings\5M-X CROWDER.dwg

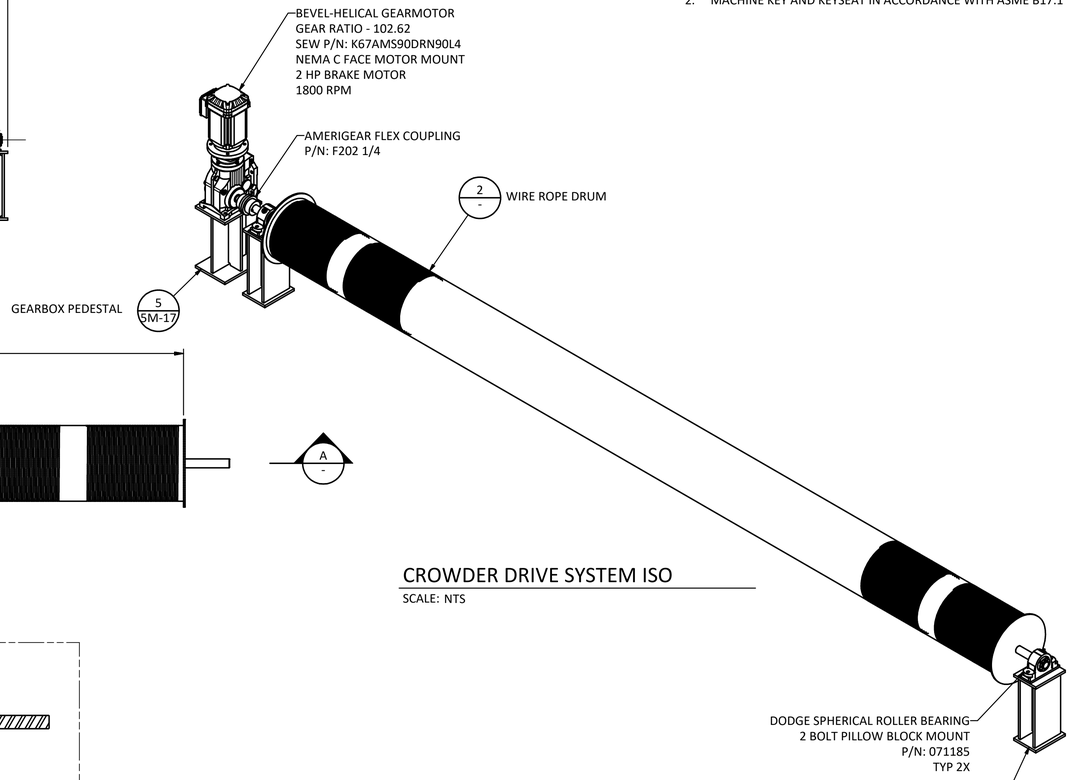


1 / 5M-13 CROWDER DRIVE SYSTEM ASSEMBLY

SCALE: 3/4" = 1'-0"

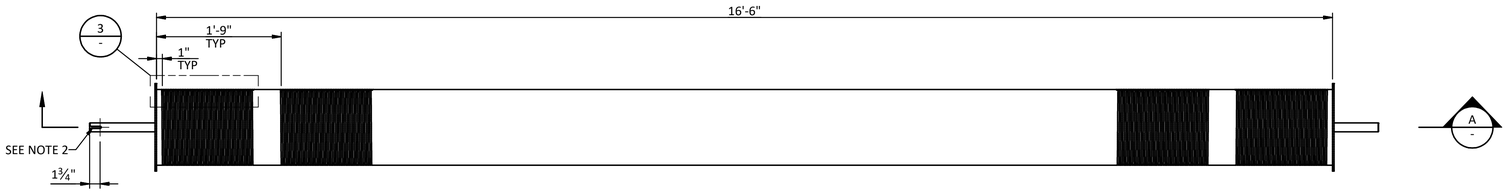
SHEET NOTES:

1. WELD IN ACCORDANCE WITH AWS D1.1
2. MACHINE KEY AND KEYSEAT IN ACCORDANCE WITH ASME B17.1



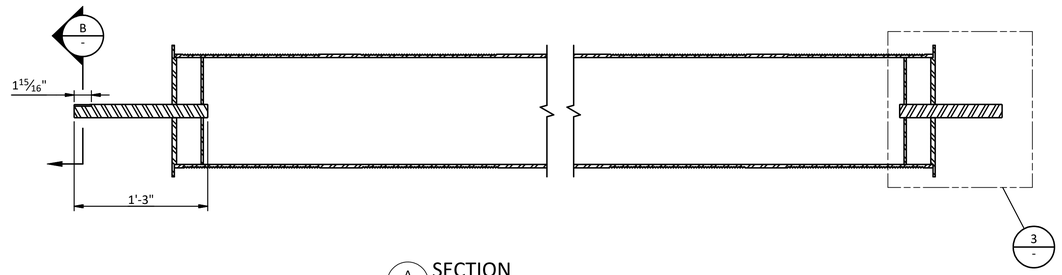
CROWDER DRIVE SYSTEM ISO

SCALE: NTS



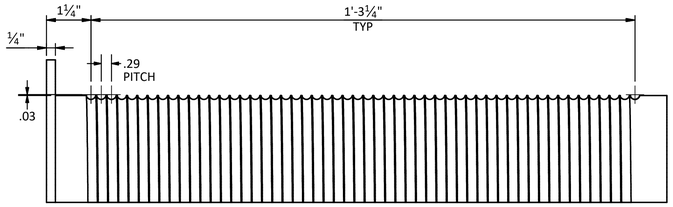
2 - WIRE ROPE DRUM

SCALE: 1" = 1'-0"



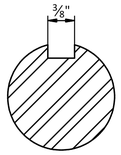
A - SECTION

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



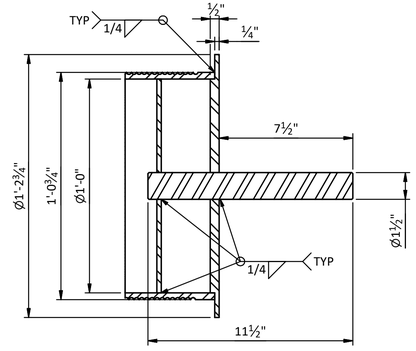
3 - DETAIL

SCALE: 6" = 1'-0"



B - SECTION

SCALE: 12" = 1'-0"



4 - DETAIL

SCALE: 3" = 1'-0"

SECTION Y-Y
SCALE 12" = 1' 0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

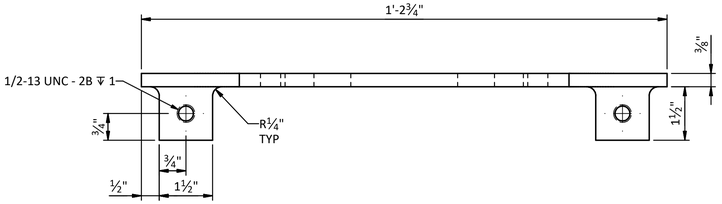
LOWER RACEWAY CROWDER
DRIVE SYSTEM ASSEMBLY

DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

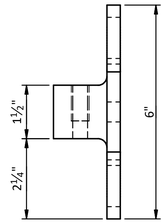
DRAWING
5M-15

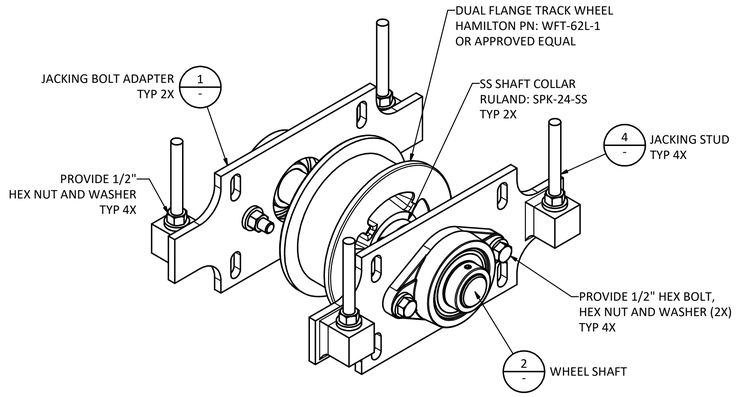
JOB NO:

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1 JACKING BOLT ADAPTER
SCALE: 6" = 1'-0"



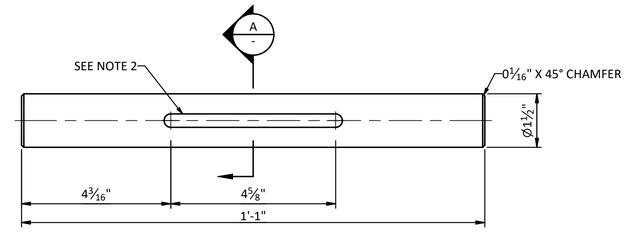


WHEEL ASSEMBLY ISO
SCALE: NTS

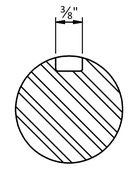
SHEET NOTES:

1. WELD IN ACCORDANCE WITH AWS D1.1
2. MACHINE KEY AND KEYSEAT IN ACCORDANCE WITH ASME B17.1

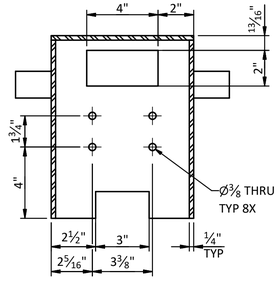
3 5M-12 WHEEL COVER
SCALE: 1 1/2" = 1'-0"



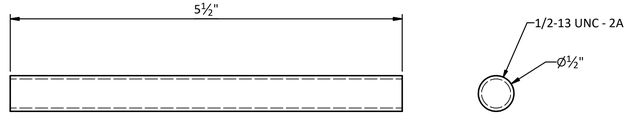
2 WHEEL SHAFT
SCALE: 6" = 1'-0"



A SECTION
SCALE: 12" = 1'-0"



B SECTION
SCALE: 3" = 1'-0"



4 JACKING BOLT
SCALE: 12" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER RACEWAY CROWDER
DRIVE SYSTEM DETAILS 1

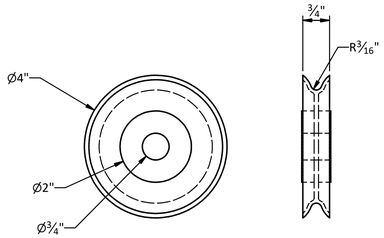
DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING
5M-16

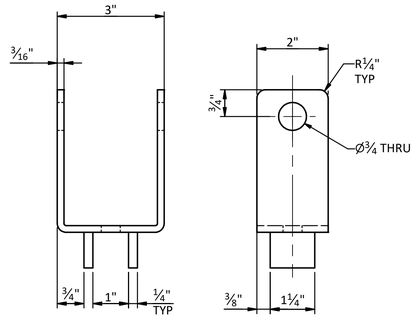
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SHEET NOTES:

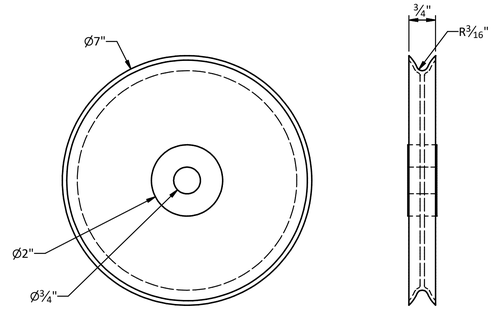
1. WELD IN ACCORDANCE WITH AWS D1.1



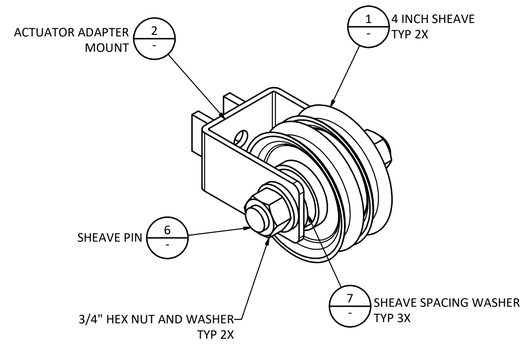
1 - 4 INCH SHEAVE
SCALE: 6" = 1'-0"



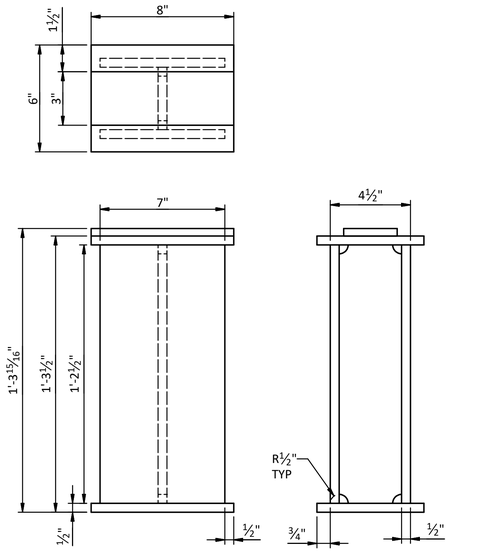
2 - ACTUATOR ADAPTOR MOUNT
SCALE: 6" = 1'-0"



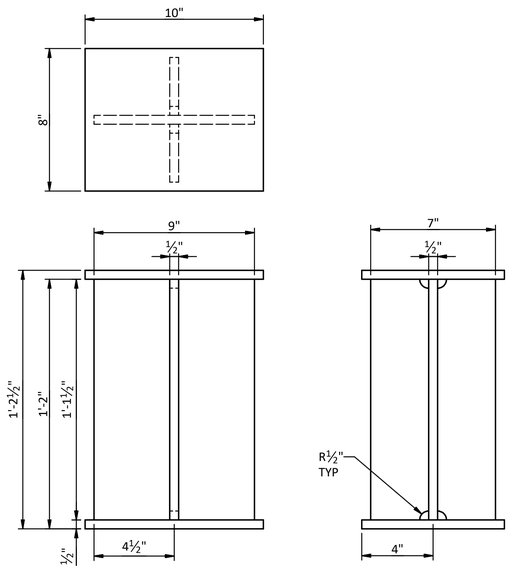
3 5M-13 - 7 INCH SHEAVE
SCALE: 6" = 1'-0"



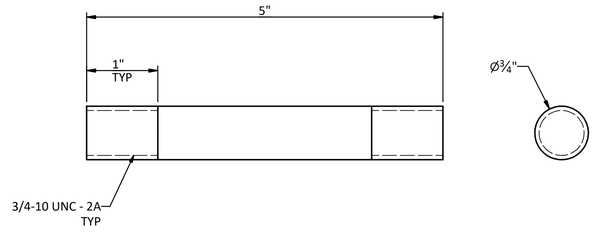
ACTUATOR ADAPTOR ASSEMBLY
SCALE: NTS



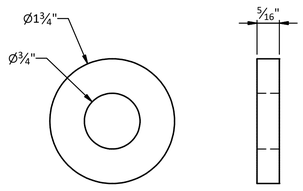
4 - BEARING PEDESTAL
SCALE: 3" = 1'-0"



5 - GEARBOX PEDESTAL
SCALE: 3" = 1'-0"



6 - SHEAVE PIN
SCALE: 3" = 1'-0"



7 - SHEAVE SPACING WASHER
SCALE: 3" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER RACEWAY CROWDER
DRIVE SYSTEM DETAILS 2

DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

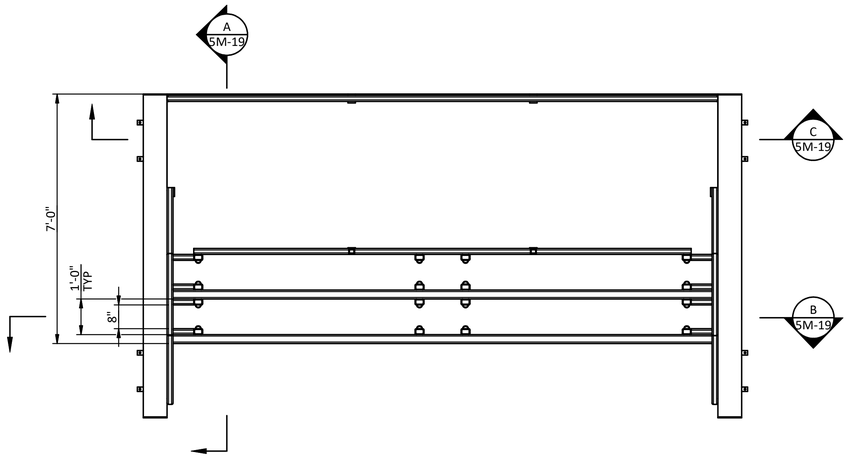
DRAWING
5M-17

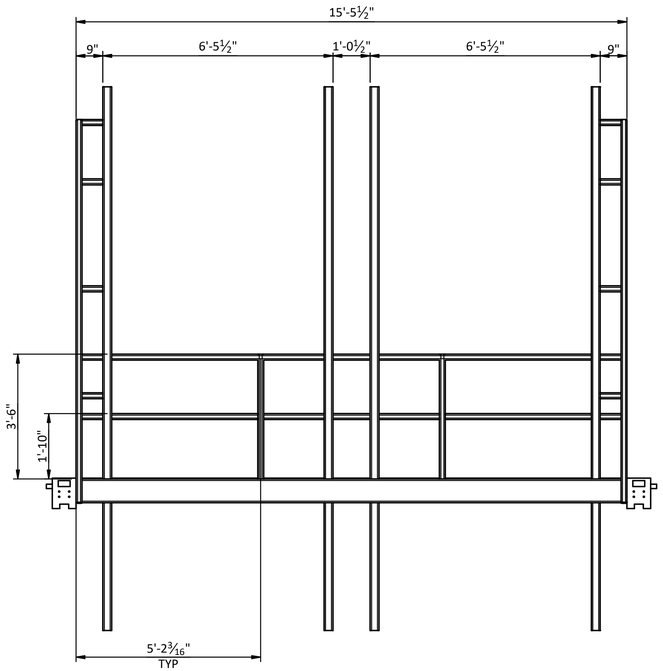
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SHEET NOTES:

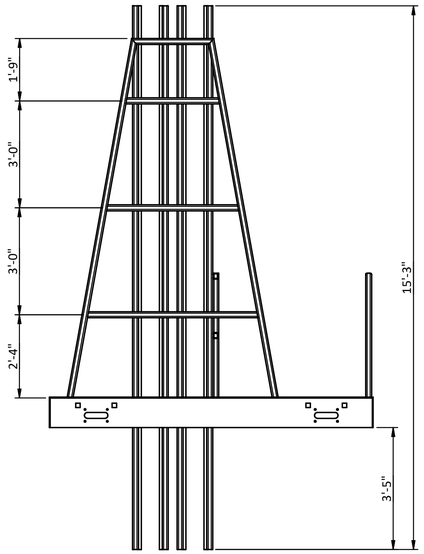
1. WELD IN ACCORDANCE WITH AWS D1.1

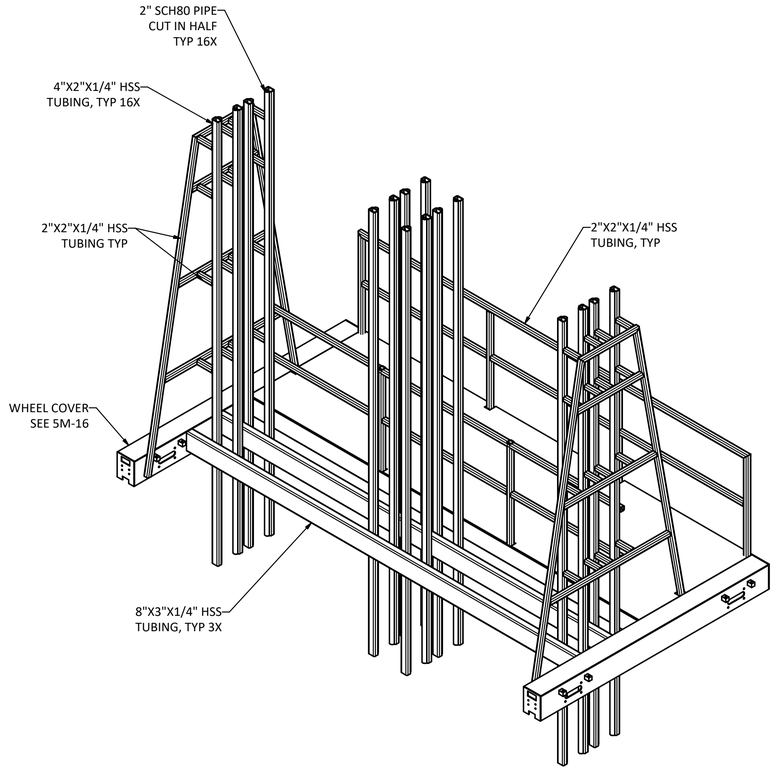




CROWDER FRAME WELDMENT

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





CROWDER FRAME ISO

SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER RACEWAY CROWDER
FRAME WELDMENT 1

DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

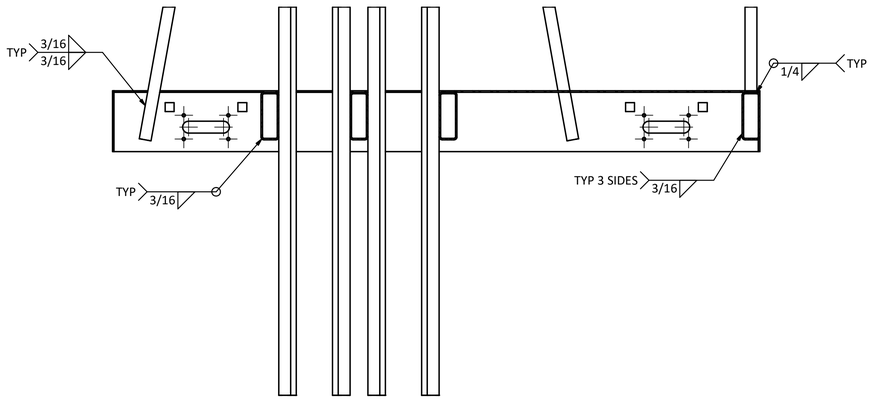
DRAWING
5M-18

JOB NO:

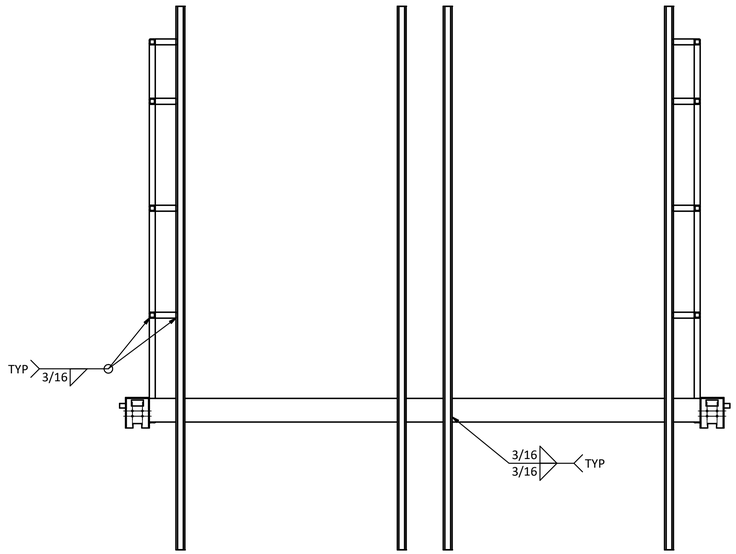
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SHEET NOTES:

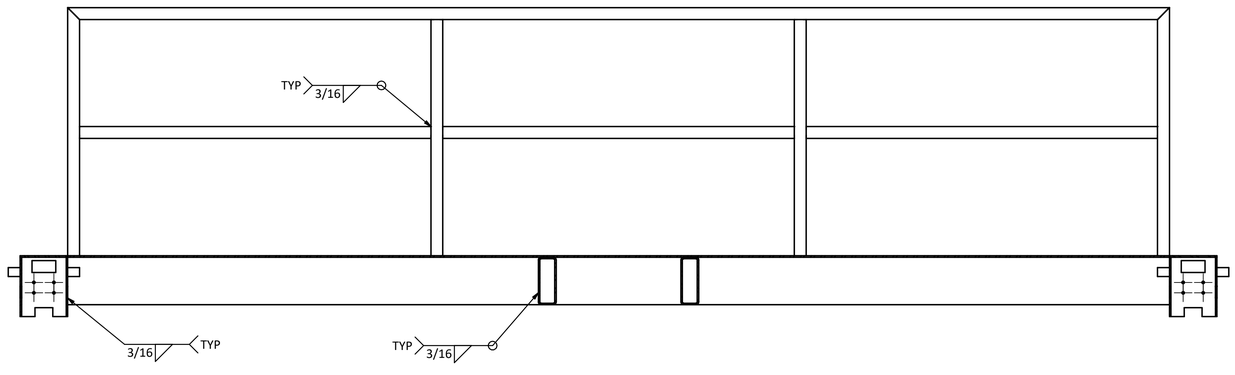
1. WELD IN ACCORDANCE WITH AWS D1.1



A
-
SECTION
SCALE: 1" = 1'-0"



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



C
-
SECTION
SCALE: 1" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

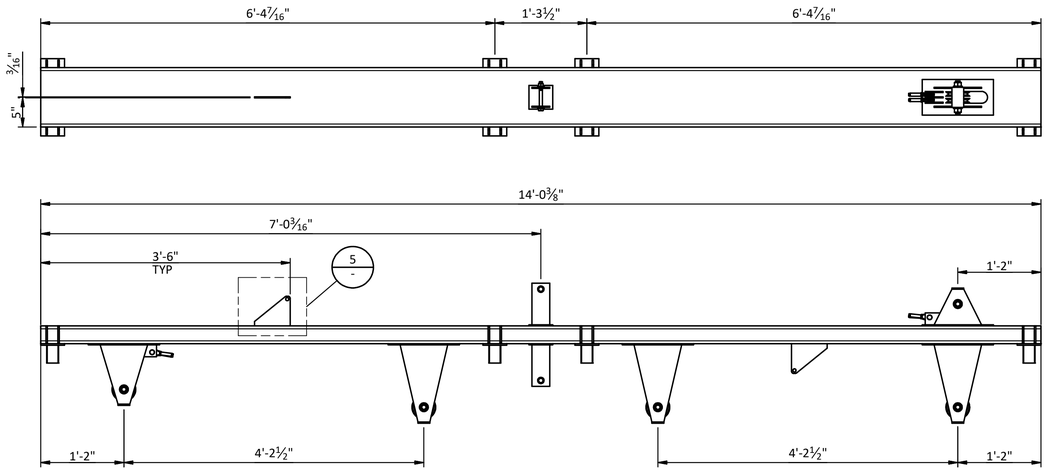
LOWER RACEWAY CROWDER
FRAME WELDMENT 2

DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING
5M-19

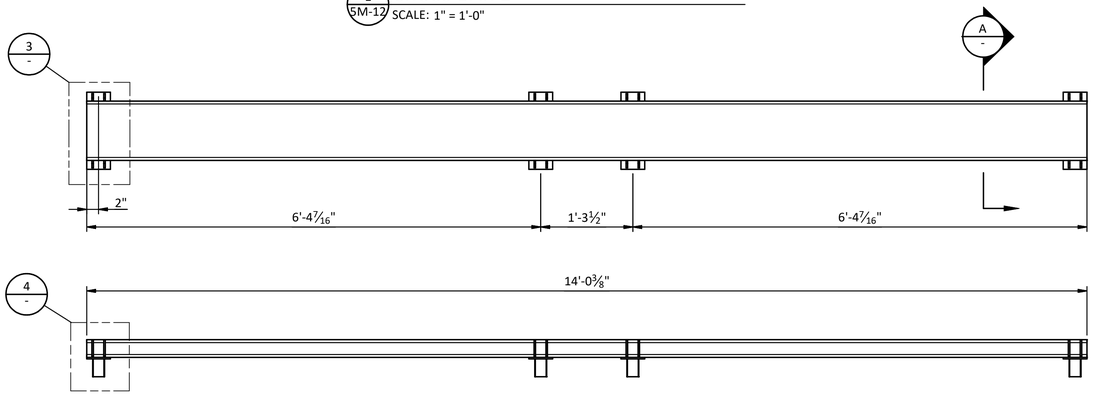
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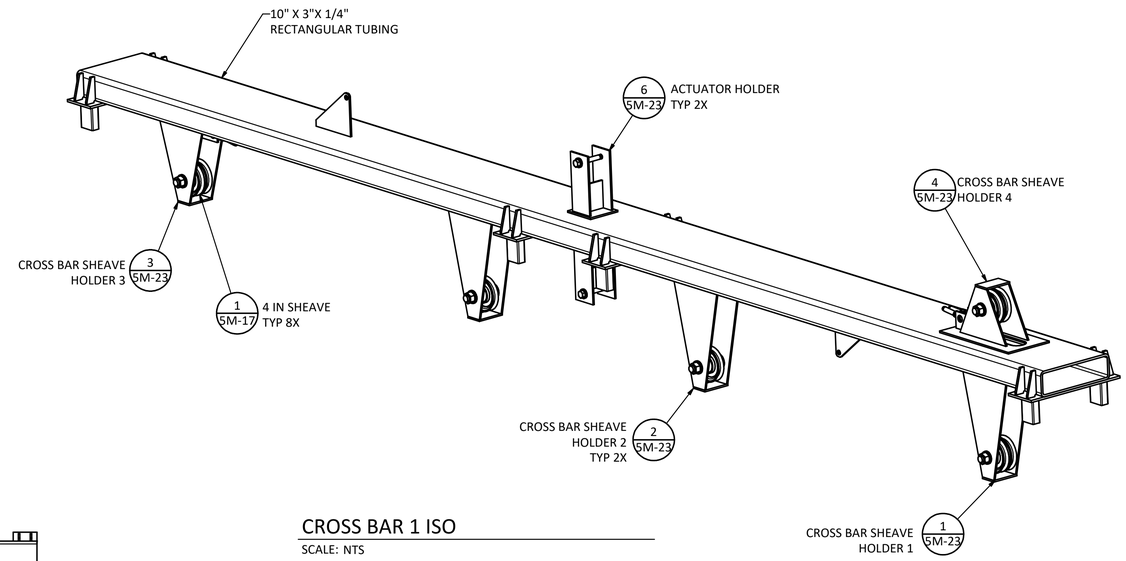
1 5M-17 **CROSS BAR 1**

SCALE: 1" = 1'-0"



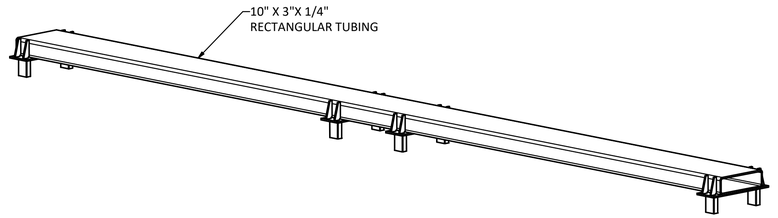
SHEET NOTES:

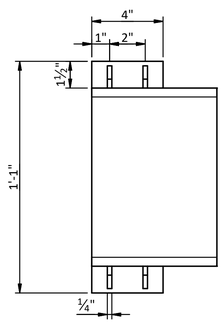
1. WELL IN ACCORDANCE WITH AWS D1.1



CROSS BAR 1 ISO

SCALE: NTS



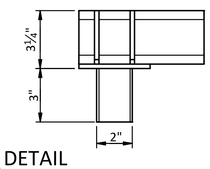


3 - **DETAIL**

SCALE: 3" = 1'-0"

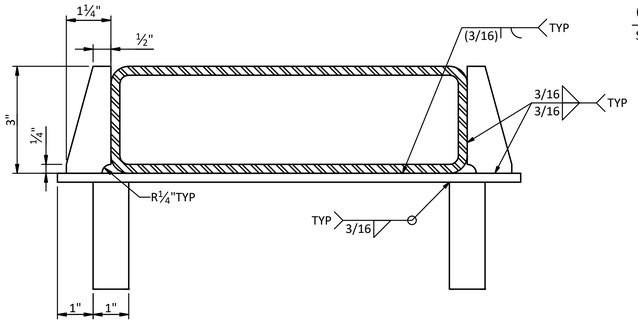
2 5M-12 **CROSS BAR 2**

SCALE: 1" = 1'-0"



4 - **DETAIL**

SCALE: 3" = 1'-0"

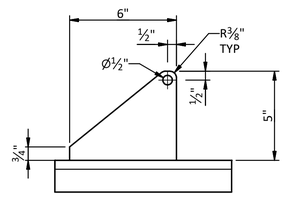


A - **SECTION**

SCALE: 6" = 1'-0"

CROSS BAR 2 ISO

SCALE: NTS



5 - **DETAIL**

SCALE: 3" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER RACEWAY CROWDER
FRAME DETAILS

DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING

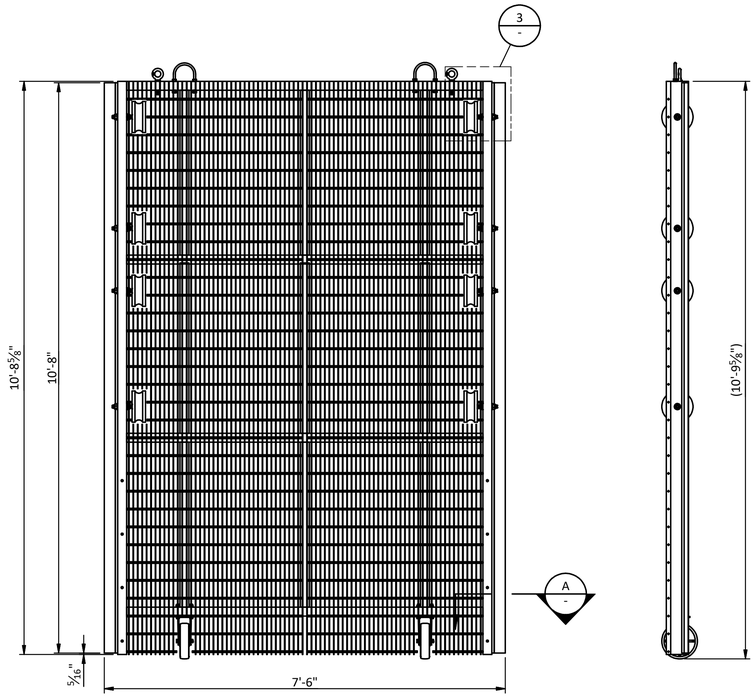
5M-20

JOB NO:

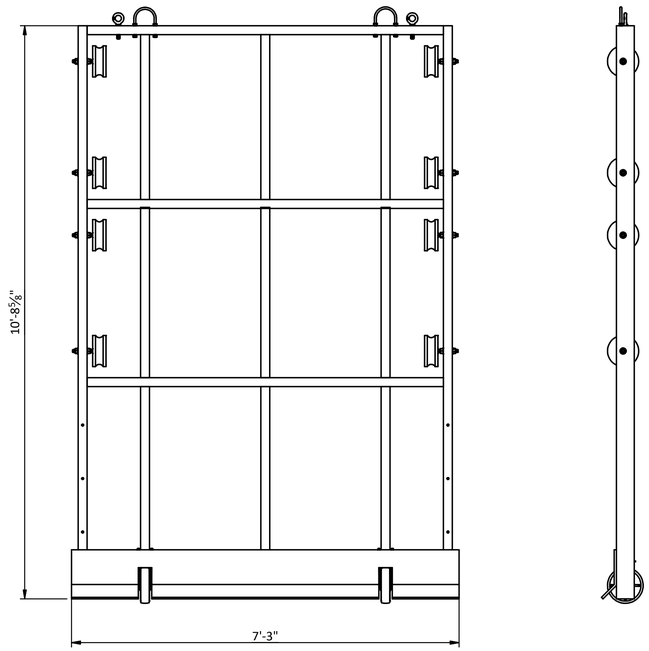
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SHEET NOTES:

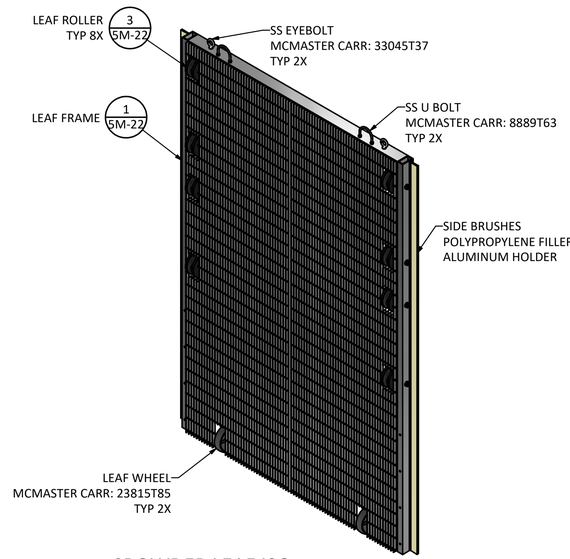
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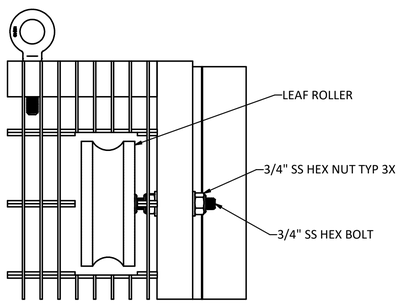
1 / 5M-12 CROWDER LEAF ASSEMBLY
SCALE: 3/4" = 1'-0"



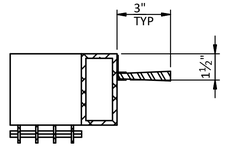
2 / 5M-12 SCRAPER LEAF ASSEMBLY
SCALE: 3/4" = 1'-0"



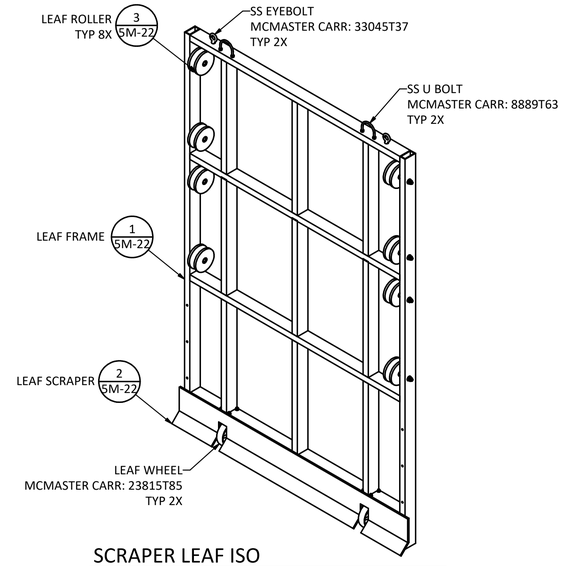
CROWDER LEAF ISO
SCALE: NTS



3 / - DETAIL
SCALE: 3" = 1'-0"



A / - SECTION
SCALE: 3" = 1'-0"



SCRAPER LEAF ISO
SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
LOWER RACEWAY CROWDER
LEAF ASSEMBLY

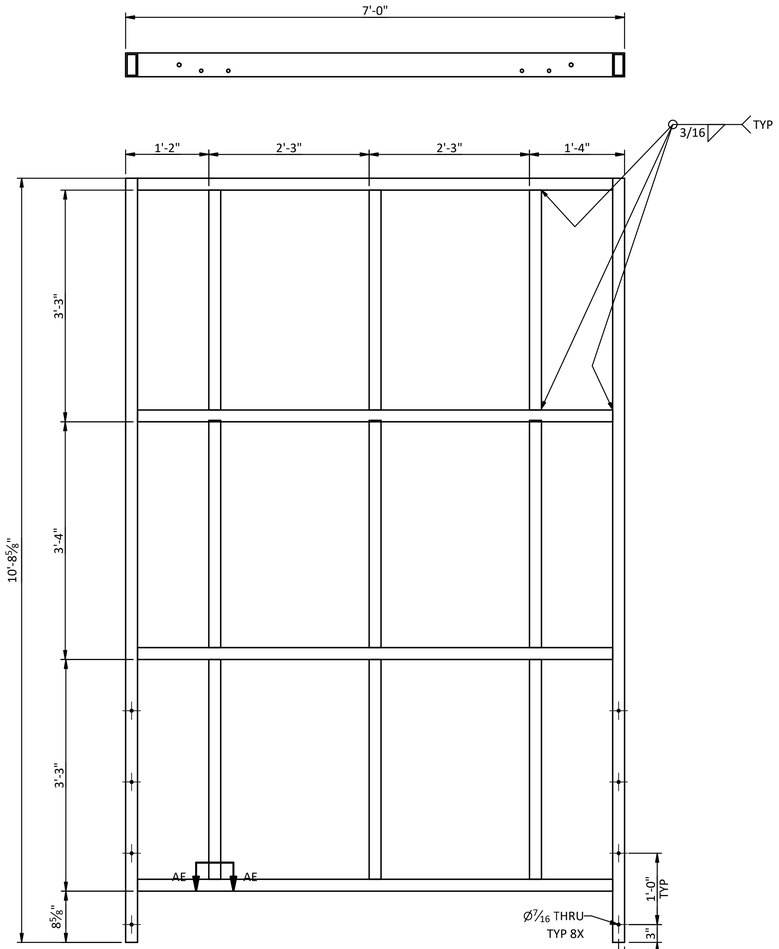
DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING
5M-21

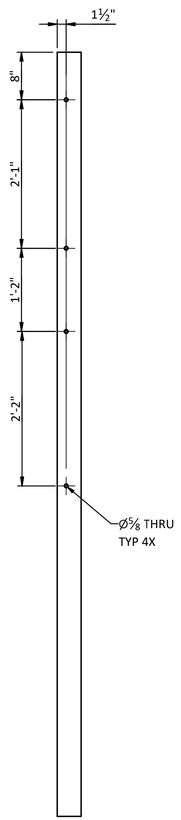
JOB NO:
Path:C:\Vault\Tulalip Tribe\26-017 Tulalip Creek Lower Pond Improvements Project Redesign\Designs\Drawings\5M-X CROWDER.dwg

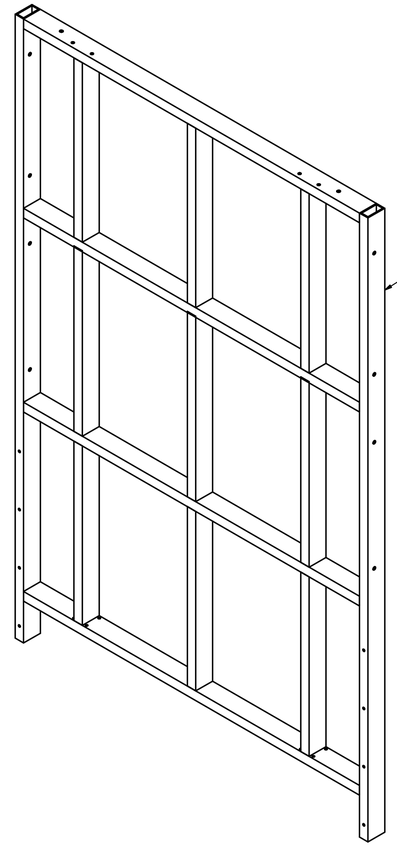
SHEET NOTES:

1. WELD IN ACCORDANCE WITH AWS D1.2

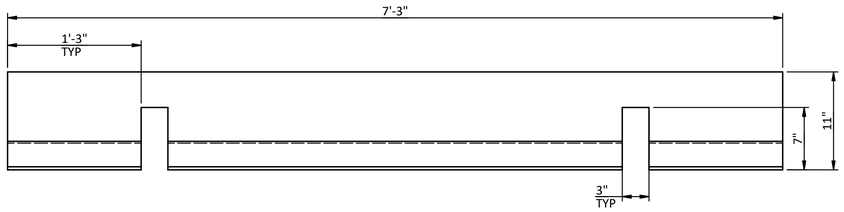


1 5M-21 LEAF FRAME WELDMENT
SCALE: 1" = 1'-0"

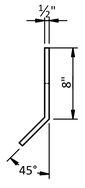


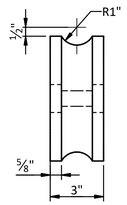


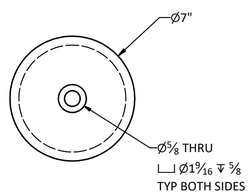
LEAF FRAME WELDMENT ISO
SCALE: NTS



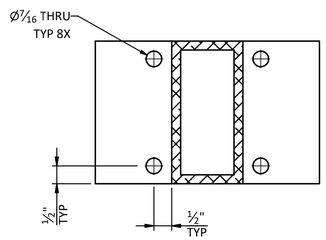
2 5M-21 LEAF SCRAPER
SCALE: 1 1/2" = 1'-0"







3 5M-21 LEAF ROLLER
SCALE: 3" = 1'-0"



A - SECTION
SCALE: 6" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER RACEWAY CROWDER
LEAF DETAILS

DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

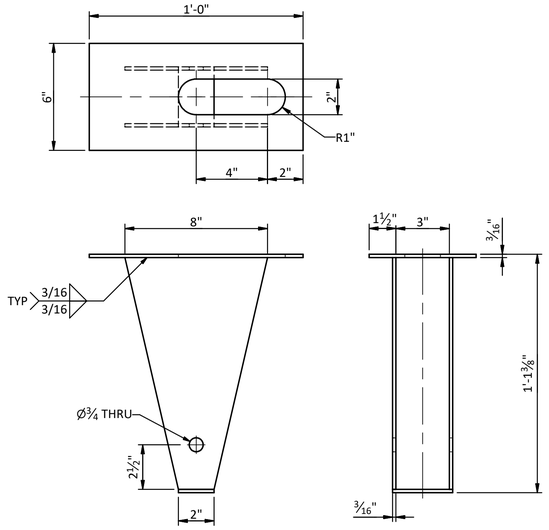
DRAWING
5M-22

JOB NO:

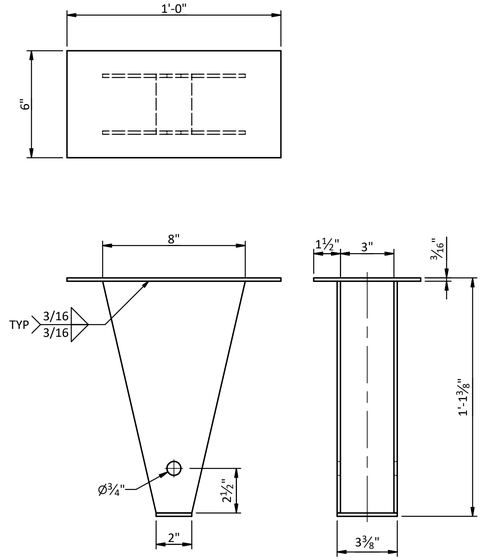
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SHEET NOTES:

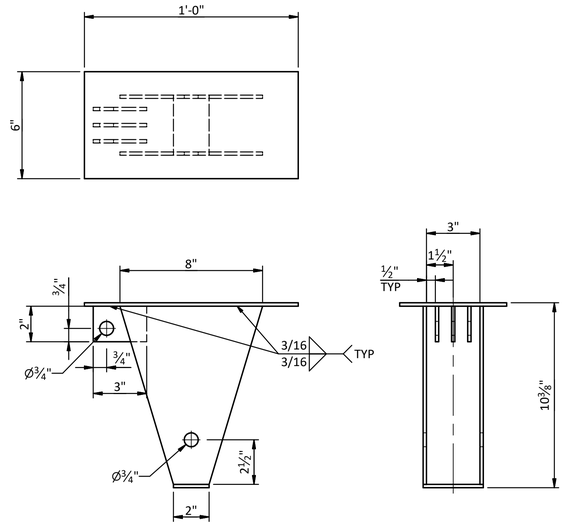
1. WELD IN ACCORDANCE WITH AWS D1.1



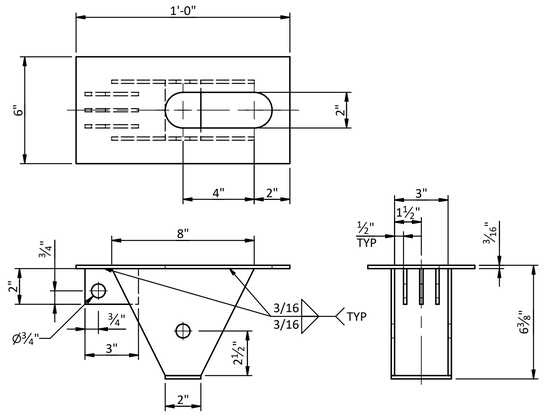
1 5M-20 CROSS BAR SHEAVE HOLDER 1
SCALE: 3" = 1'-0"



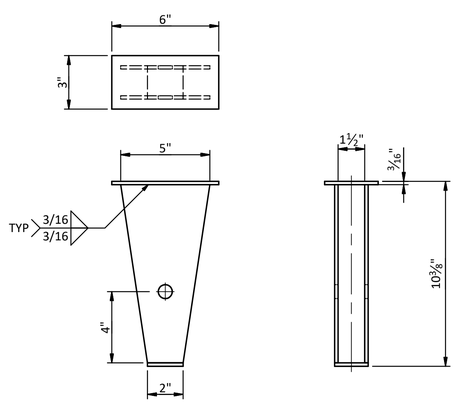
2 5M-20 CROSS BAR SHEAVE HOLDER 2
SCALE: 3" = 1'-0"



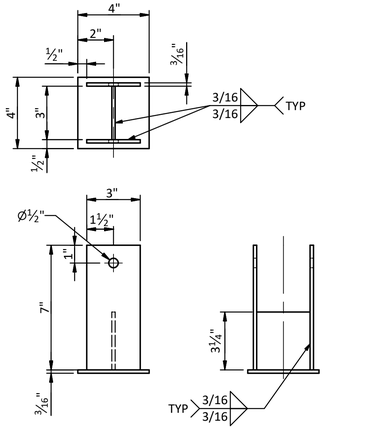
3 5M-20 CROSS BAR SHEAVE HOLDER 3
SCALE: 3" = 1'-0"



4 5M-20 CROSS BAR SHEAVE HOLDER 4
SCALE: 3" = 1'-0"



5 5M-13 END STOP SHEAVE HOLDER
SCALE: 3" = 1'-0"



6 5M-20 ACTUATOR HOLDER
SCALE: 3" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

LOWER RACEWAY CROWDER
MISC DETAILS 1

DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

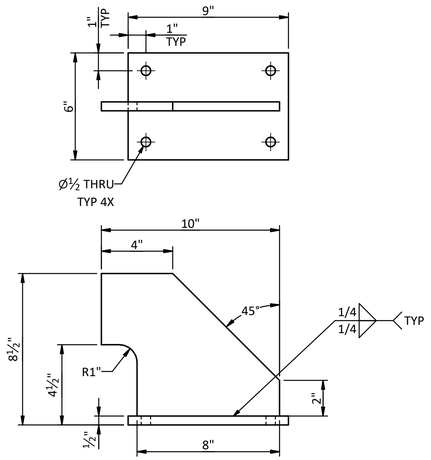
DRAWING
5M-23

JOB NO:

Path:C:\Vault\Tulalip Tribe\26-017 Tulalip Creek Lower Pond Improvements Project Redesign\Designs\Drawings\5M-X CROWDER.dwg

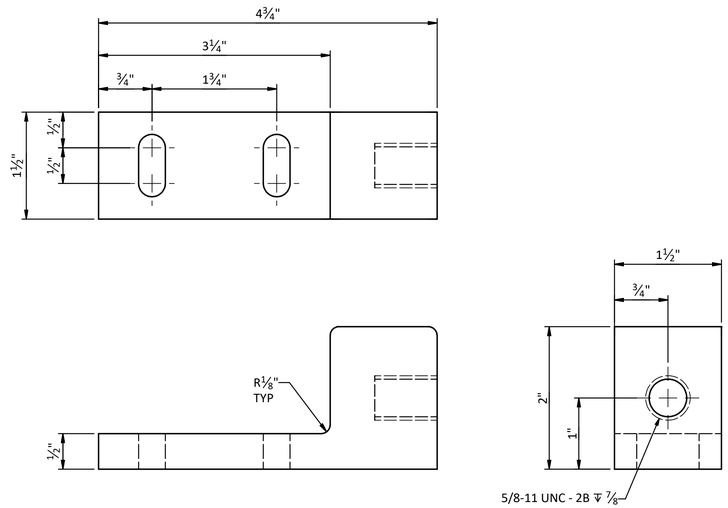
SHEET NOTES:

1. WELD IN ACCORDANCE WITH AWS D1.1



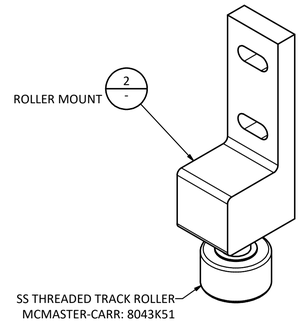
1 5M-13 RAIL STOP 1

SCALE: 3" = 1'-0"



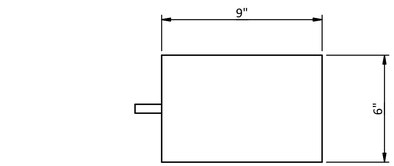
2 - ROLLER GUIDE MOUNT

SCALE: 12" = 1'-0"



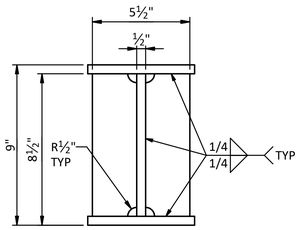
ROLLER GUIDE ASSEMBLY ISO

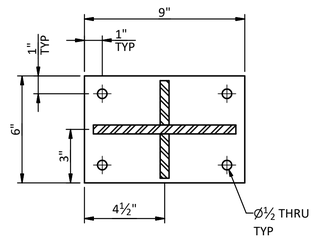
SCALE: NTS



3 5M-13 RAIL STOP 2

SCALE: 3" = 1'-0"





A - SECTION

SCALE: 3" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

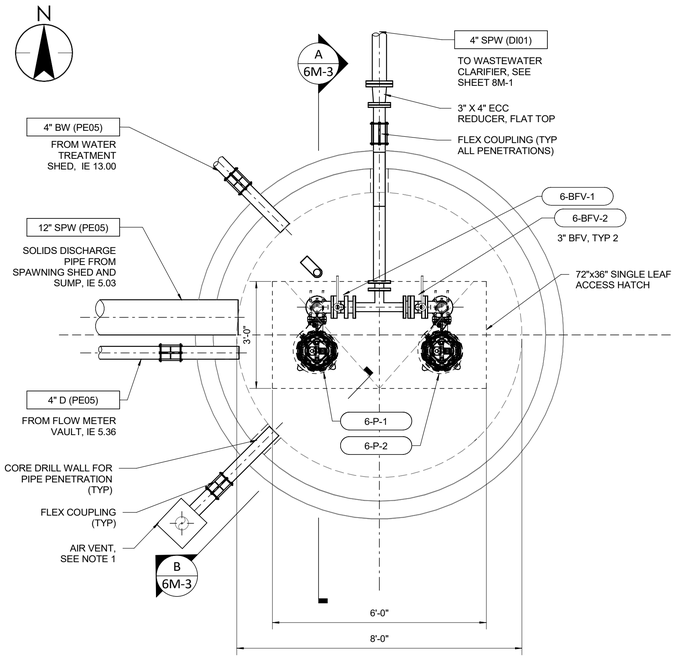
LOWER RACEWAY CROWDER
MISC DETAILS 2

DESIGNED M. RIETZE
DRAWN M. RIETZE
CHECKED J. DALLAS
PROJECT DATE 06/29/26

DRAWING
5M-24

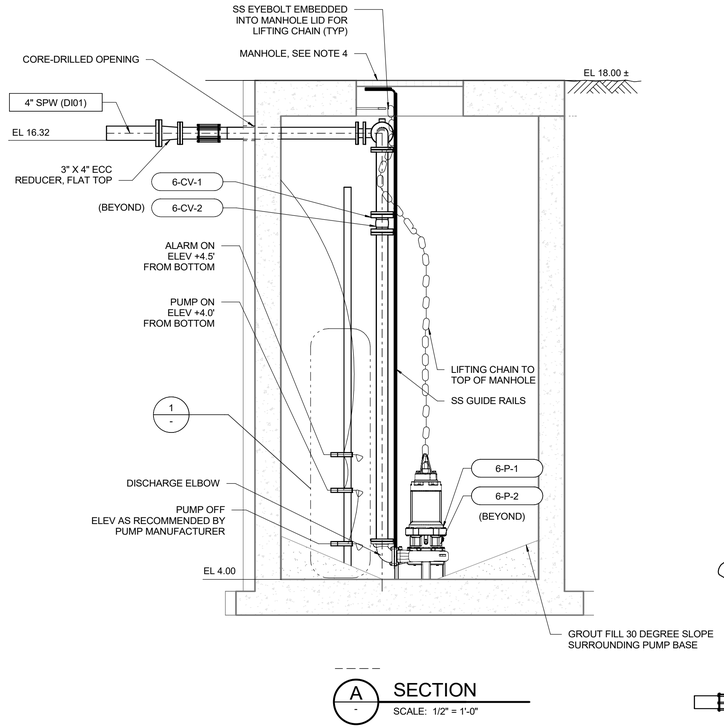
JOB NO:

Path:C:\Vault\Tulalip Tribe\26-017 Tulalip Creek Lower Pond Improvements Project Redesign\Designs\Drawings\5M-X CROWDER.dwg



SPAWNING WASTE PUMP STATION

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

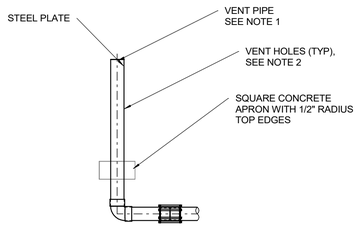


A - SECTION

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

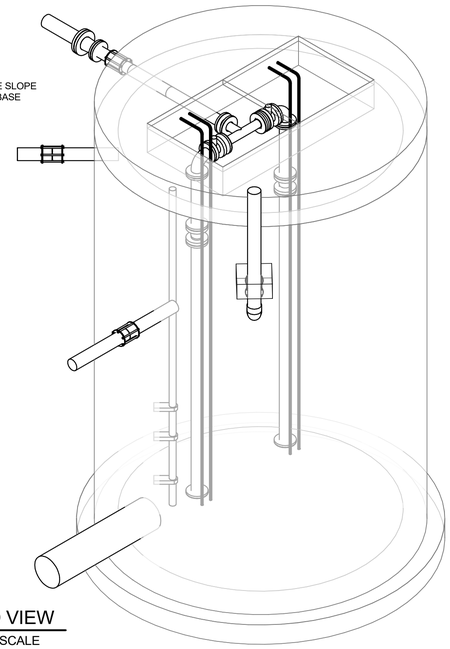
GENERAL SHEET NOTES

1. LOCATE VENT PIPE ALONG WATER TREATMENT SHED OUTSIDE WALL. OWNER TO APPROVE FINAL LOCATION.
2. DRILL HOLES AS REQUIRED TO PROVIDE TOTAL FREE AREA AT LEAST 1.5 TIMES AREA OF PIPE. HOLES SHALL BE 1/4" DIAMETER, START APPROXIMATELY 3" FROM TOP AND SPREAD EVENLY.
3. VENT PIPE SHALL BE SCHEDULE 40 PVC.
4. MANHOLE AND VAULT LIDS SHALL BE INSTALLED FLUSH WITH SURROUNDING PAVEMENT. LID AND ACCESS HATCH SHALL BE HS-20 RATED FOR VEHICLE TRAFFIC.
5. INSTALL LINKSEALS FOR CORE DRILLED PIPE PENETRATIONS SMALLER THAN 6".
6. FOR PREMANUFACTURED KNOCKOUTS, FILL ANNULAR SPACE WITH GROUT TO CREATE WATER TIGHT SEAL
7. PRECAST SUPPLIER SHALL DESIGN WET WELL TO RESIST UPLIFT FORCES ASSUMING GROUNDWATER ELEVATION OF 14.00 FEET.



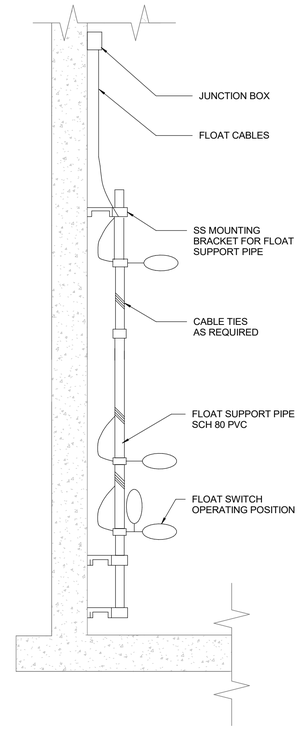
B - SECTION

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



3D VIEW

NO SCALE



1 - BALL FLOAT SWITCH

NO SCALE

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SPAWNING WASTE
PUMP STATION
PLAN AND SECTIONS

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED D. WHITBECK
ISSUED DATE 06/29/2026

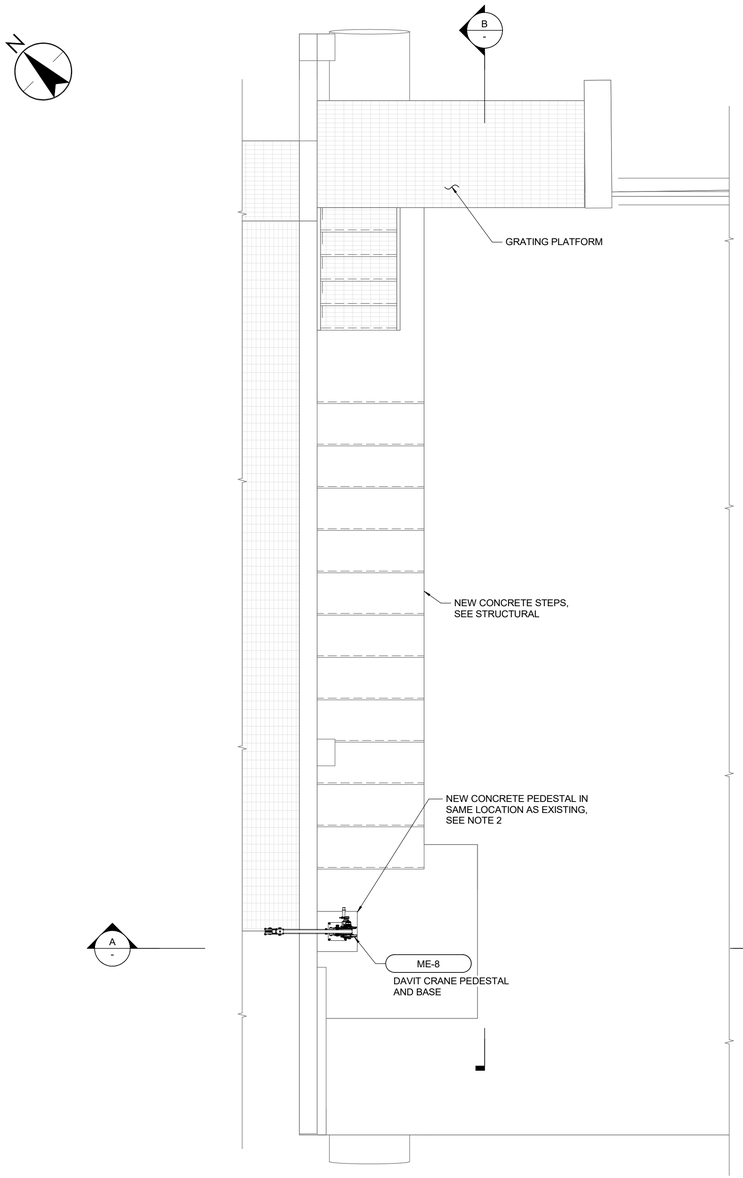
DRAWING
6M-3

Exhibit E.1 Page 146 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026866m-md.rvt

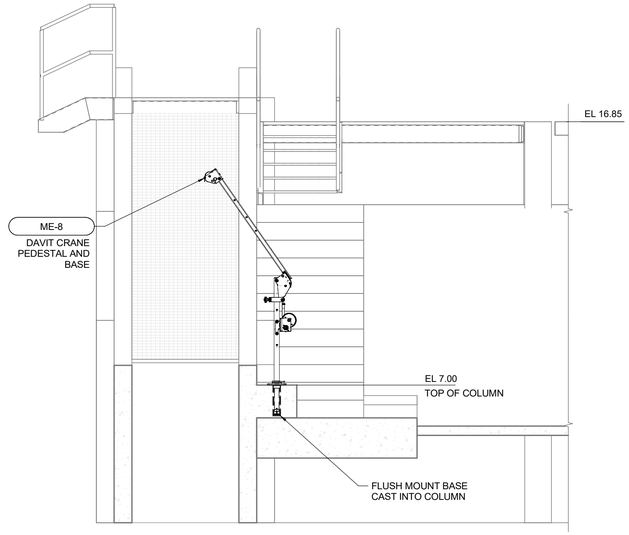
GENERAL SHEET NOTES

1. SEE SPECIFICATION 43 52 10 FOR DAVIT CRANE REQUIREMENTS.
2. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATIONS.



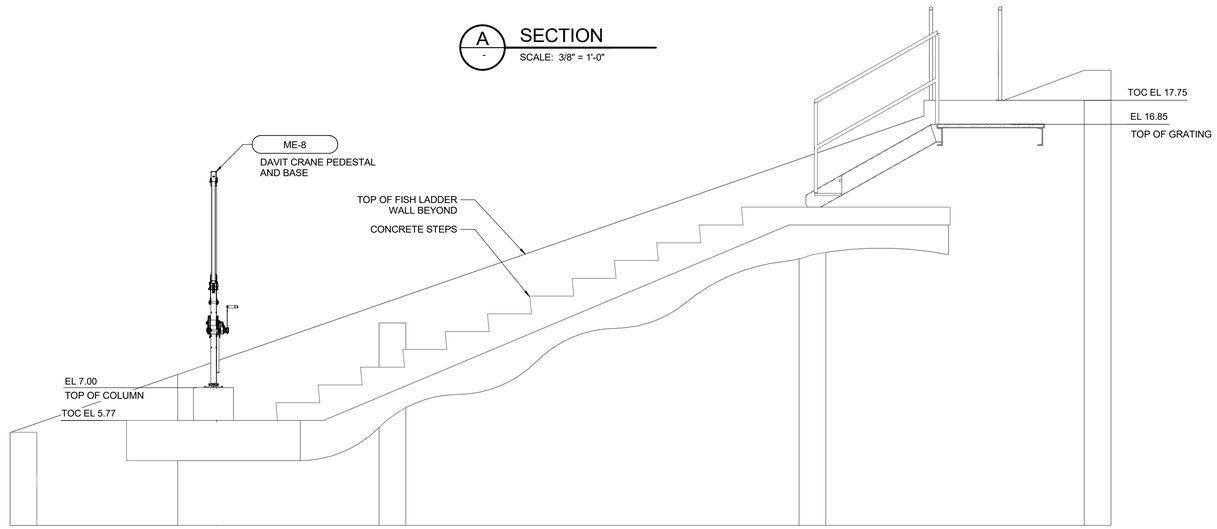
FISH LADDER HOIST PLAN

SCALE: 3/8" = 1'-0"



A SECTION

SCALE: 3/8" = 1'-0"



B SECTION

SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

FISH LADDER HOIST
PLAN AND SECTIONS

DESIGNED LR
DRAWN STN
CHECKED DW
ISSUED DATE 06/29/2026

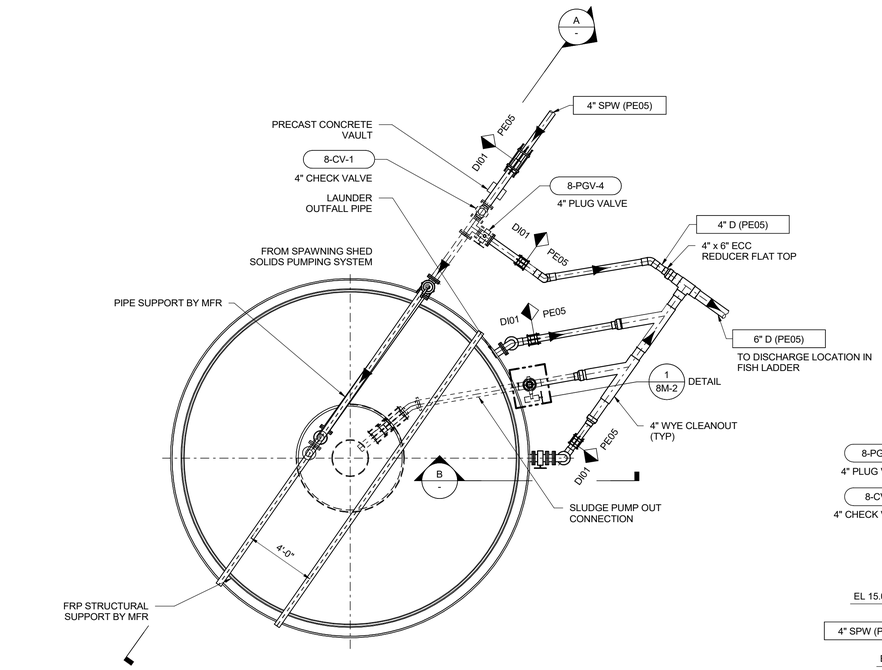
DRAWING

7M-1

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026867m-md.rvt

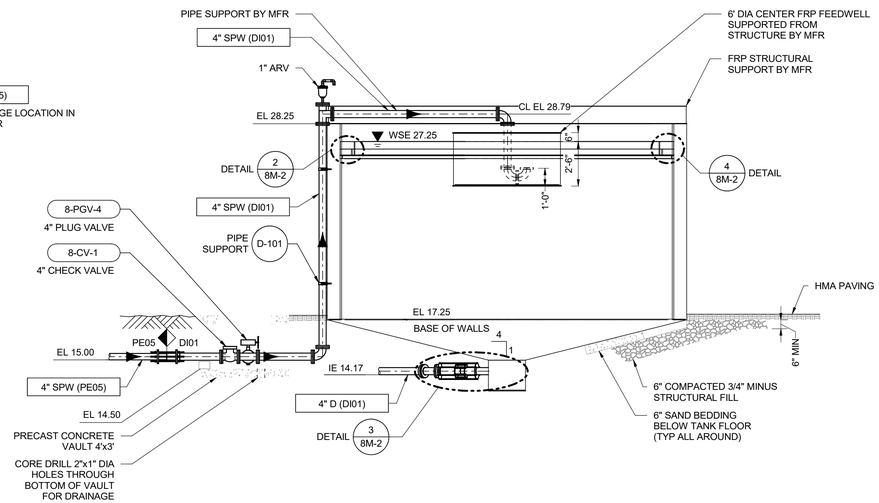
GENERAL SHEET NOTES

1. MINIMUM 2% SLOPE ON ALL DRAINS.
2. THE CLARIFIER IS A PACKAGED ASSEMBLY, SEE SPECIFICATION SECTION 46 34 22 CIRCULAR CENTER FEED CLARIFIER FOR ADDITIONAL REQUIREMENTS.



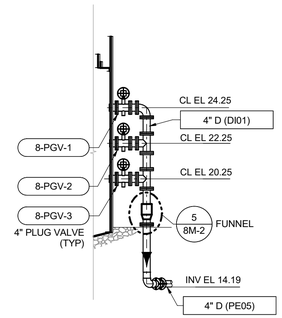
CLARIFIER MECHANICAL PLAN

SCALE: 1/4" = 1'-0"



A SECTION

SCALE: 1/4" = 1'-0"



B SECTION

SCALE: 1/4" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26		PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Tulalip Tribes

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

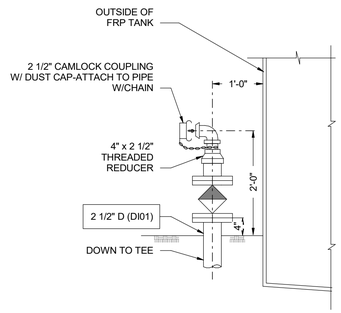
WASTEWATER CLARIFIER MECHANICAL PLAN AND SECTIONS

DESIGNED LR
DRAWN STN
CHECKED DW
ISSUED DATE 06/29/2026

DRAWING 8M-1

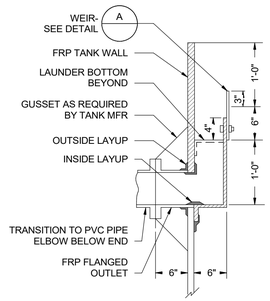
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Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026868m-md.rvt



SLUDGE PUMPOUT CONNECTION

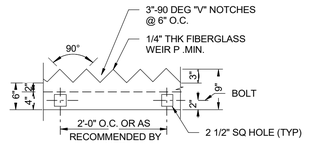
1 DETAIL
8M-1 SCALE: 1 1/2" = 1'-0"



NOTE:
ALL SIDE FLANGED OUTLETS ARE SIMILAR TO THIS ONE.

LAUNDER AT OUTFALL

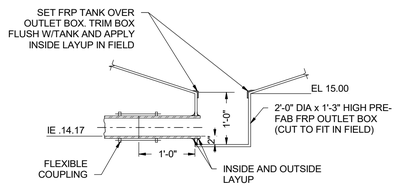
2 DETAIL
8M-1 SCALE: 1 1/2" = 1'-0"



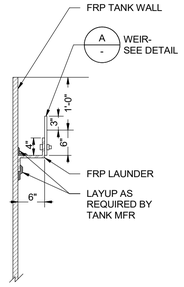
NOTE:
ATTACH WEIR TO LAUNDER WITH 1/2" x 2" SST MB. SUPPLY WASHER ON EA SIDE

V-NOTCH LAUNDER WEIR

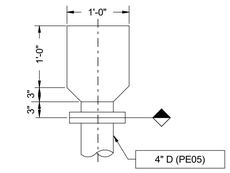
A DETAIL
- SCALE: 1 1/2" = 1'-0"



3 DETAIL
8M-1 SCALE: 1 1/2" = 1'-0"



4 DETAIL
8M-1 SCALE: 1 1/2" = 1'-0"



NOTES:
1. FABRICATE FUNNEL FROM SCHED 10 STEEL PIPE. HOT DIP GALVANIZE AFTER FABRICATION.
2. EXTEND DRAINAGE PIPE 2" INTO FUNNEL.

FUNNEL

5 DETAIL
8M-1 SCALE: 1 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26		PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

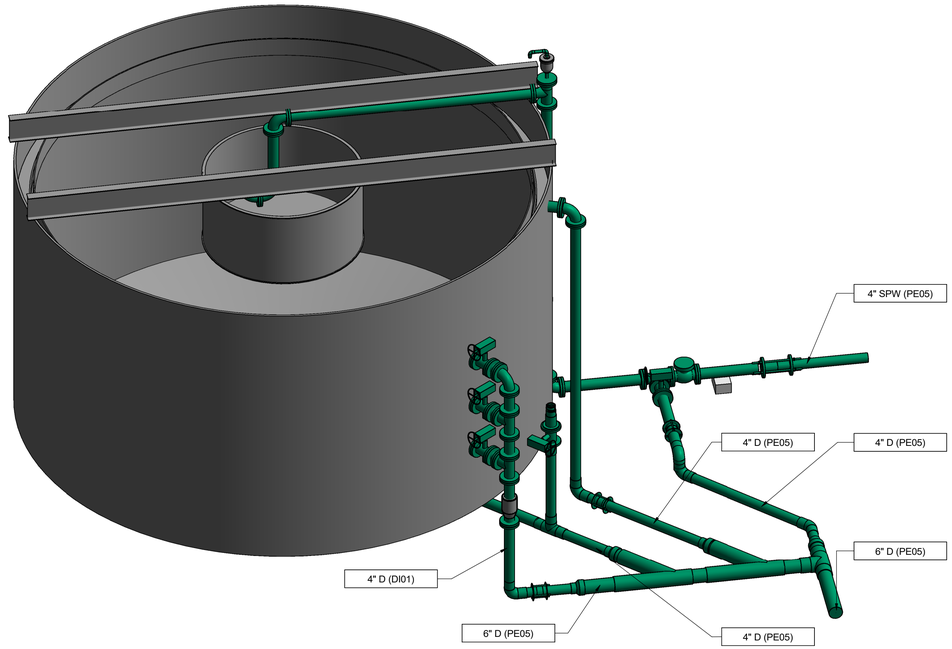
WASTEWATER CLARIFIER
MECHANICAL DETAILS 1

DESIGNED LR
DRAWN STN
CHECKED DW
ISSUED DATE 06/29/2026

DRAWING
8M-2

Exhibit E.1 Page 149 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026868m-md.rvt



1 - CLARIFIER ISOMETRIC
SCALE:

REV	DATE	BY	DESCRIPTION
A	06/29/26		PRE-FINAL DESIGN

PRELIMINARY
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0 1/2 1
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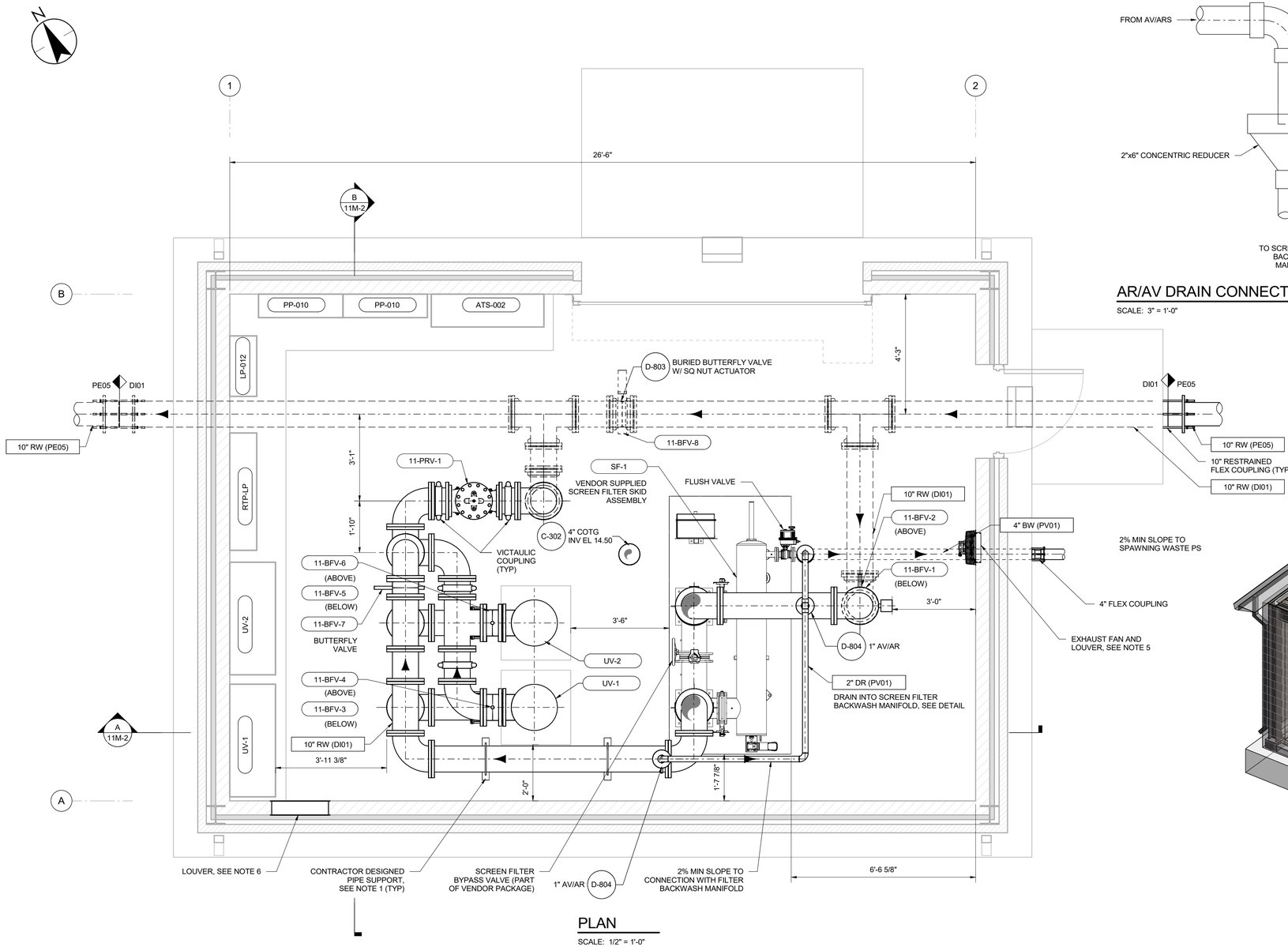
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

WASTEWATER CLARIFIER
MECHANICAL DETAILS 2

DESIGNED LR
DRAWN STN
CHECKED DW
ISSUED DATE 06/29/2026

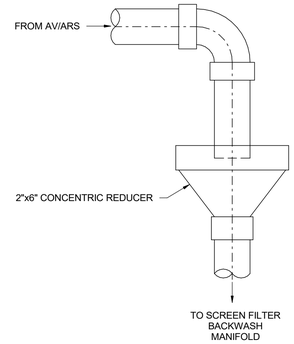
DRAWING
8M-3

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026868m-md.rvt



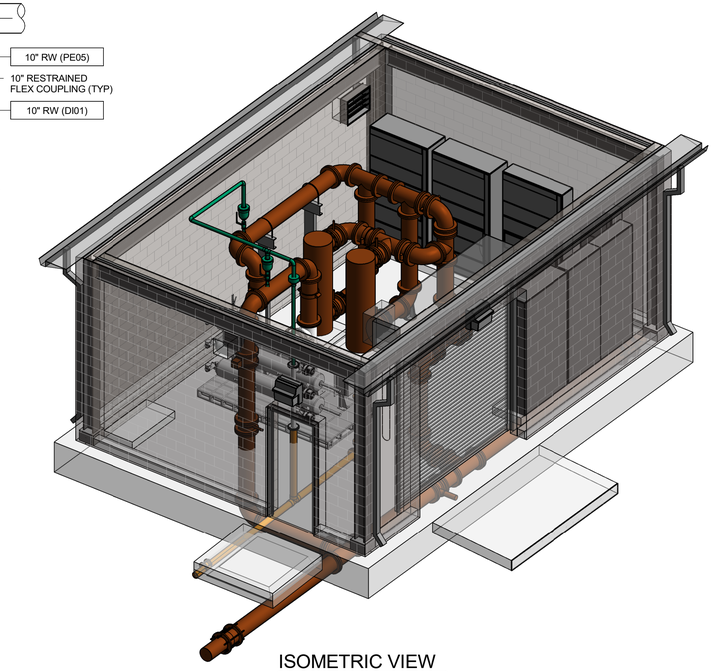
PLAN

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



AR/AV DRAIN CONNECTION DETAIL

SCALE: 3" = 1'-0"



ISOMETRIC VIEW

SCALE: NO SCALE

GENERAL SHEET NOTES

1. NOT ALL NECESSARY PIPE SUPPORTS ARE SHOWN. CONTRACTOR SHALL PROVIDE PIPE SUPPORTS FOR A COMPLETE PIPING SYSTEM. SEE SPECIFICATION 40 05 07 FOR ADDITIONAL REQUIREMENTS.
2. SCREEN FILTER LAYOUT IS BASED ON FORSTA FILTERS MODEL 180C. CONTRACTOR MAY PROPOSE SUBSTITUTE EQUIPMENT. IF LAYOUT OF SUBSTITUTE EQUIPMENT VARIES FROM WHAT IS SHOWN, ALL PIPING AND OTHER MODIFICATIONS NECESSARY FOR COMPLETE INSTALLATION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. SCREEN FILTER SKID SHALL BE INSTALLED LEVEL, PROVIDE LEVELING NUTS OR GROUT BENEATH SKID BASE AS REQUIRED.
3. FLUSH VALVE WITH ACTUATOR PROVIDED AS PART OF SCREEN FILTER SUPPLY PACKAGING (TYP). CONTRACTOR SHALL COORDINATE WITH SUPPLIER TO PROVIDE ALL PARTS AND COMPONENTS NEEDED FOR COMPLETE INSTALLATION.
4. ALL EXPOSED FITTINGS SHALL BE RESTRAINED JOINT TYPE FITTINGS.
5. PROVIDE GROOVED COUPLINGS OR FLANGED COUPLING ADAPTERS FOR ABOVE-GRADE PIPING WHERE SHOWN AND AS NEEDED FOR COMPLETE PIPING INSTALLATION.
6. 12" DIA EXHAUST FAN AND LOUVER SHALL BE WALL-MOUNTED. LOUVER MUST BE CAPABLE OF PASSING AT MINIMUM AN AIRFLOW OF 825CFM. FRAME MATERIAL SHALL BE STEEL. FAN BLADE MATERIAL SHALL BE ALUMINUM.
7. FIXED BLADE WALL LOUVRE WITH ALUMINUM FRAME AND BLADES SHALL BE WALL MOUNTED. FIXED BLADE LOUVER SHALL BE MCMASTER-CARR 2083K64 OR EQUIVALENT. FRAME AND BLADE MATERIAL SHALL BE ALUMINUM.
8. SEE ELECTRICAL DRAWINGS FOR PLACEMENT OF UNIT HEATERS AND ELECTRICAL EQUIPMENT.

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
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WARNING
0 1/2 1
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TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
WATER TREATMENT
SHED PLAN

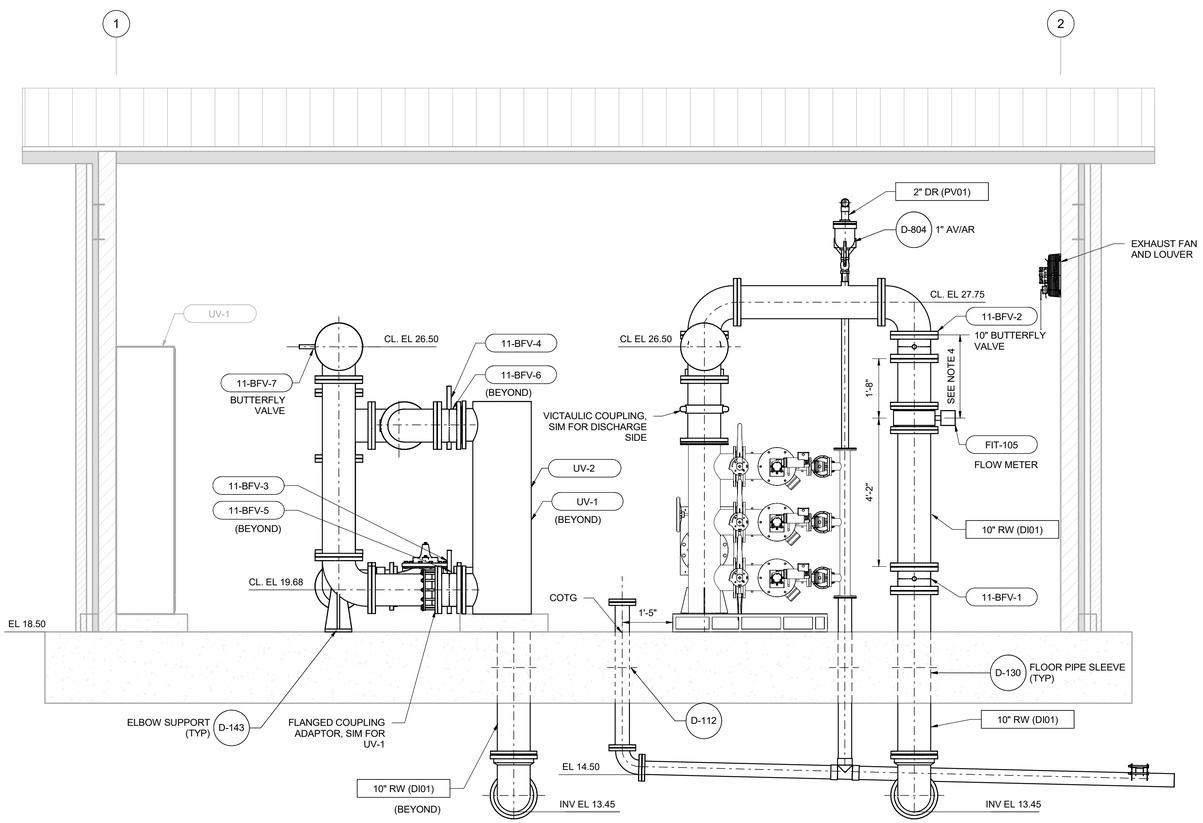
DESIGNED LR
DRAWN STN
CHECKED DW
ISSUED DATE 06/29/2026

DRAWING
11M-1

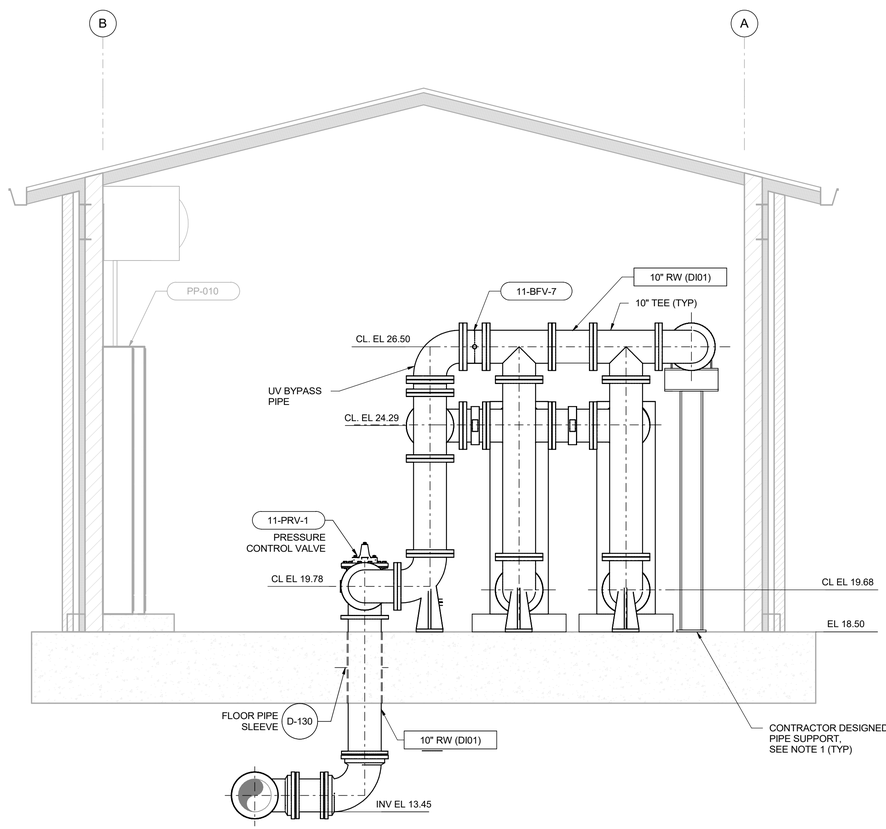
Autodesk Docs://26-017 Tulalip Lower Pond Improvements/02586511m-md.rvt

GENERAL SHEET NOTES

1. NOT ALL NECESSARY PIPE SUPPORTS ARE SHOWN. CONTRACTOR SHALL PROVIDE PIPE SUPPORTS FOR A COMPLETE PIPING SYSTEM. SEE SPECIFICATION 40 05 07 FOR ADDITIONAL REQUIREMENTS.
2. SCREEN FILTER LAYOUT IS BASED ON FORSTA FILTERS MODEL 180C. CONTRACTOR MAY PROPOSE SUBSTITUTE EQUIPMENT. IF LAYOUT OF SUBSTITUTE EQUIPMENT VARIES FROM WHAT IS SHOWN, ALL PIPING AND OTHER MODIFICATIONS NECESSARY FOR COMPLETE INSTALLATION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. SCREEN FILTER SKID SHALL BE INSTALLED LEVEL, PROVIDE LEVELING NUTS OR GROUT BENEATH SKID BASE AS REQUIRED.
3. FLUSH VALVE WITH ACTUATOR PROVIDED AS PART OF SCREEN FILTER SUPPLY PACKAGING (TYP). CONTRACTOR SHALL COORDINATE WITH SUPPLIER TO PROVIDE ALL PARTS AND COMPONENTS NEEDED FOR COMPLETE INSTALLATION.
4. CONTRACTOR SHALL INSTALL FLOW METER WITH SUFFICIENT STRAIGHT, UNIMPEDED RUN UPSTREAM AND DOWNSTREAM OF THE FLOWMETER IN ACCORDANCE WITH MANUFACTURER'S MANUAL.
5. ALL EXPOSED FITTINGS SHALL BE FLANGED OR RESTRAINED JOINT TYPE FITTINGS.



A 11M-1 SECTION
SCALE: 1/2" = 1'-0"



B 11M-1 SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING
0 1/2 1
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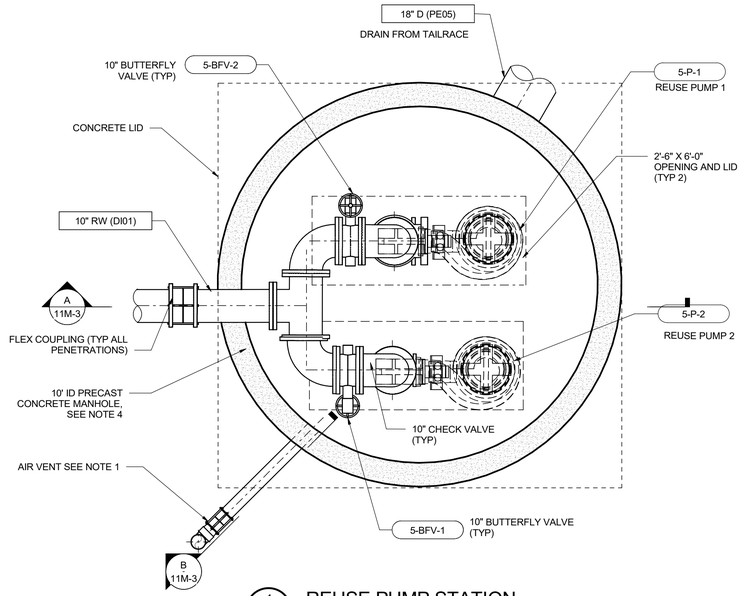
TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
WATER TREATMENT SHED SECTIONS

DESIGNED LR
DRAWN STN
CHECKED DW
ISSUED DATE 06/29/2026

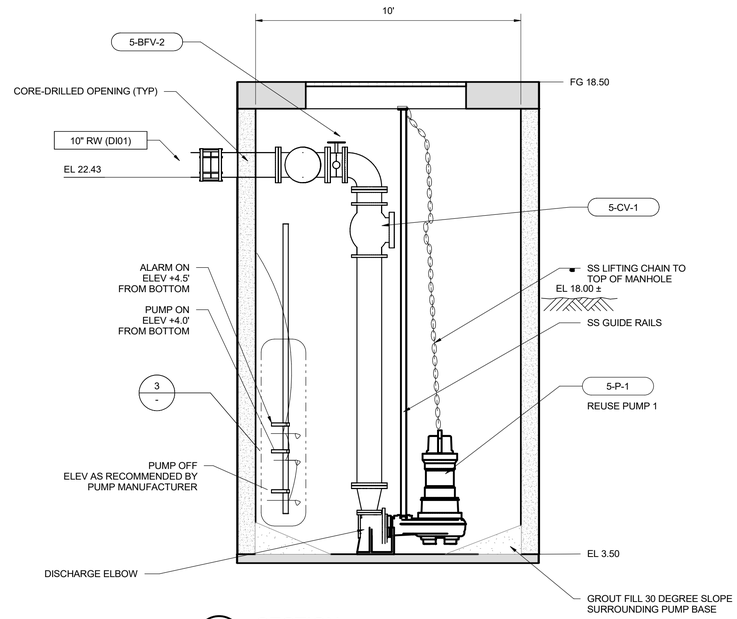
DRAWING
11M-2

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/02686611m-md.rvt



1 REUSE PUMP STATION

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

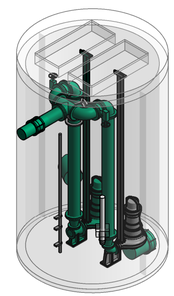


A SECTION

SCALE: 3/8" = 1'-0"

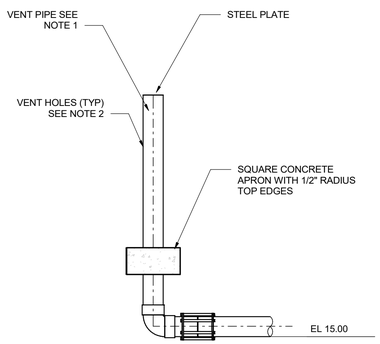
GENERAL SHEET NOTES

1. LOCATE VENT PIPE ALONG WATER TREATMENT SHED OUTSIDE WALL. OWNER TO APPROVE FINAL LOCATION.
2. DRILL HOLES AS REQUIRED TO PROVIDE TOTAL FREE AREA AT LEAST 1.5 TIMES AREA OF PIPE. HOLES SHALL BE 1/4" DIAMETER, START APPROXIMATELY 3" FROM TOP AND SPREAD EVENLY.
3. VENT PIPE SHALL BE SCHEDULE 40 PVC.
4. MANHOLE AND VAULT LIDS SHALL BE INSTALLED FLUSH WITH SURROUNDING PAVEMENT. LID AND ACCESS HATCH SHALL BE HS-20 RATED FOR VEHICLE TRAFFIC.
5. INSTALL LINKSEALS FOR CORE DRILLED PIPE PENETRATIONS SMALLER THAN 6".
6. FOR PREMANUFACTURED KNOCKOUTS, FILL ANNULAR SPACE WITH GROUT TO CREATE WATER TIGHT SEAL.
7. VALVE VAULT AND WET WELL LID SHALL BE INSTALLED 1/2" ABOVE FINISHED GRADE.
8. PRECAST SUPPLIER SHALL DESIGN WET WELL TO RESIST UPLIFT FORCES ASSUMING GROUNDWATER ELEVATION OF 14.00 FEET.



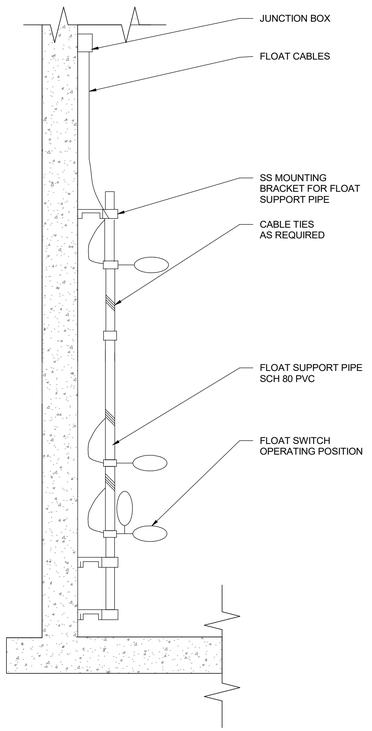
2 NW ISOMETRIC VIEW

SCALE:



B SECTION

SCALE: 3/4" = 1'-0"



3 BALL FLOAT SWITCH

NO SCALE

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

WARNING

0 1/2 1

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TULALIP TRIBES

TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

REUSE PUMP ENLARGED
PLAN AND SECTION

DESIGNED M. VASILEV
DRAWN E. BOWEN
CHECKED J. DALLAS
ISSUED DATE 06/29/2026

DRAWING
11M-3

Exhibit E.1 Page 153 of 161

Autodesk Docs://26-017 Tulalip Lower Pond Improvements/026865m-md_A.rvt

SINGLE LINE DIAGRAM, SCHEMATIC DIAGRAM SYMBOLOGY AND PLAN SYMBOLOGY

LOC — THERMAL MAGNETIC CIRCUIT BREAKER
LOC = LOCATION
100 — FRAME (AMPS)
20 — TRIP (AMPS)

LOC — MCP CIRCUIT BREAKER
LOC = LOCATION
100 — CONTINUOUS AMPS
MCP — INSTANTANEOUS TRIP
MOTOR CIRCUIT PROTECTOR

X — COMBINATION NEMA RATED STARTER WITH MCP DISCONNECT AND CONTROL POWER TRANSFORMER
40 MCP — ROMAN NUMERAL = NEMA SIZE
X = LOCATION
* = STARTER TYPE
(BLANK) FULL VOLTAGE NON-REVERSING
FVR FULL VOLTAGE REVERSING
2S2W TWO SPEED TWO WINDING
2S1W TWO SPEED ONE WINDING

X VFD — VARIABLE FREQUENCY DRIVE
X = AMPERE RATING

X RVSS — REDUCED VOLTAGE SOLID STATE STARTER
X = AMPERE RATING

X / Y — PACKAGED EQUIPMENT
X = EQUIPMENT SIZE
Y = TYPE (KW, KVA, OR HP AS INDICATED)

GENERATOR
RATINGS AS INDICATED

TRANSFER SWITCH (MANUAL OR AUTOMATIC)
RATINGS AS INDICATED

X — METERING DEVICE
X = METER TYPE
WHM WATT HOUR METER
WM WATT METER
AM AMMETER
VM VOLTMETER
PFM POWER FACTOR METER

480/120 (3) — POTENTIAL TRANSFORMER
RATIO AND NUMBER OF PT'S AS INDICATED

100/5 (3) — CURRENT TRANSFORMER
RATIO AND NUMBER OF CT'S AS INDICATED

GROUND FAULT CURRENT TRANSFORMER
RATIO AS INDICATED

5A — FUSE
SIZE AS INDICATED

X — MOTOR
X = HORSEPOWER
* = FULL LOAD AMPS

DELTA-WYE TRANSFORMER WITH
SECONDARY KVA SIZE AND VOLTAGE
RATIO AS INDICATED

MOV — ELECTRICAL MOTOR OPERATED VALVE, WITH INTEGRAL REVERSING STARTER

30A — DISCONNECT SWITCH
SIZE AS INDICATED

30A / 30A — FUSED DISCONNECT SWITCH
SIZE AS INDICATED

SPD — SURGE PROTECTIVE DEVICE

SSM — SOLID STATE METERING DEVICE

SSMP — SOLID STATE MOTOR PROTECTIVE DEVICE

L O R — THREE - POSITION SELECTOR SWITCH

VACUUM OR PRESSURE SWITCH
CLOSE ON RISING PRESSURE

VACUUM OR PRESSURE SWITCH
OPEN ON RISING PRESSURE

FLOAT LEVEL SWITCH
CLOSE ON RISING LEVEL

FLOAT LEVEL SWITCH
OPEN ON RISING LEVEL

NORMALLY OPEN

NORMALLY CLOSED

NORMALLY OPEN HELD CLOSED

NORMALLY CLOSED HELD OPEN

TEMPERATURE SWITCH
CLOSE ON RISING TEMPERATURE

TEMPERATURE SWITCH
OPEN ON RISING TEMPERATURE

FLOW SWITCH
CLOSE ON INCREASING FLOW

FLOW SWITCH
OPEN ON INCREASING FLOW

E-STOP PUSHBUTTON

X — CONTROL RELAY OR COIL
X = DEVICE
CR CONTROL RELAY
TD TIME DELAY RELAY (TIMING RANGE AS INDICATED)
M MOTOR STARTER
PC PHOTOCELL

NORMALLY OPEN CONTACT

NORMALLY CLOSED CONTACT

TIMED CONTACTS
CONTACT ACTION IS DELAYED AFTER COIL IS:

ENERGIZED

TD1 — NORMALLY OPEN WITH TIME DELAY CLOSING

TD1 — NORMALLY CLOSED WITH TIME DELAY OPENING

DE-ENERGIZED

TD1 — NORMALLY OPEN WITH INSTANT CLOSING AND TIME DELAY OPENING

TD1 — NORMALLY CLOSED WITH INSTANT OPENING AND TIME DELAY CLOSING

START — NORMALLY OPEN PUSHBUTTON (MOMENTARY)

STOP — NORMALLY CLOSED PUSHBUTTON (MOMENTARY)

OFF ON — NO/NC MAINTAINED PUSHBUTTON

X — PILOT LIGHT
X = LENS COLOR
R RED
G GREEN
A AMBER
W WHITE

X — PILOT LIGHT (PUSH-TO-TEST)
X = LENS COLOR (SEE ABOVE)

HORN

ETM — ELAPSED TIME METER

HEATER

GROUND CONNECTION

CROSSING OF CONDUCTORS - NOT CONNECTED

CROSSING OF CONDUCTORS - CONNECTED

FUSE

VOLTAGE SURGE SUPPRESSOR

RECEPTACLES

X-# — 120V SINGLE RECEPTACLE, NEMA CONFIGURATION
5-20R (WALL MOUNT)

X-# — 120V DUPLEX RECEPTACLE, NEMA CONFIGURATION
5-20R (WALL MOUNT)
X = PANELBOARD DESIGNATION
= CIRCUIT DESIGNATION
* = TYPE
WP WEATHERPROOF
XP EXPLOSION PROOF
GFCI GROUND FAULT CIRCUIT INTERRUPTER

CONDUIT AND RACEWAY SYMBOLOGY

EXPOSED OR CONCEALED CONDUIT

CONDUIT RUN (UNDERGROUND OR IN CONCRETE)

CONDUIT RUN (CHANGE IN ELEVATION)

CONDUIT TURNING UP

CONDUIT TURNING DOWN

CONDUITS GROUPED TOGETHER BUT SHOWN AS A SINGLE LINE FOR CLARITY

CONDUIT FROM FLOOR ABOVE TO FLOOR BELOW

CONDUIT CAPPED, OR SEALED

J — JUNCTION BOX OR FITTING

MISCELLANEOUS ELECTRICAL SYMBOLOGY

POWER PANEL

DISCONNECT SWITCH

COMBINATION STARTER

M — MOTOR

T — THERMOSTAT

GROUNDING SYMBOLOGY

GROUND ROD AND GROUND WELL

GROUND ROD (3/4" X 10'-0")

GROUND CONNECTION - BOLTED TYPE

GROUND CONNECTION - EXOTHERMIC TYPE

BARE COPPER GROUND TO GROUND WIRE IN SLAB, OR UNDERGROUND GROUND GRID, SIZE AS NOTED

EARTH GROUNDING

GENERAL ELECTRICAL NOTES

1. ALL RACEWAYS, EQUIPMENT AND EXPOSED METAL SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL CODES.
2. ALL ITEMS ARE NEW UNDER THIS CONTRACT UNLESS OTHERWISE NOTED. ITEMS SHOWN AS "SCREENED" (LIGHTER GRAY TONE OR LIGHT WEIGHT) ARE EXISTING. SCREENED ELECTRICAL OR MECHANICAL EQUIPMENT OR DEVICES SHOULD ALSO BE NOTED AS "EXISTING" OR "(E)". IF EQUIPMENT OR DEVICES ARE NOT SO NOTED THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE OWNER BEFORE BIDDING THAT PORTION OF THE WORK. FOR ALL EQUIPMENT OR DEVICES LISTED AS "FUTURE" OR "(FUT)" LEAVE SPACE FOR EQUIPMENT AND RACEWAYS.
3. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES OF ALL EQUIPMENT AGAINST APPROVED SHOP DRAWINGS BEFORE STUBBING UP CONDUITS.
4. REFER TO SPECIFICATION SECTION 26 05 33 - ELECTRICAL RACEWAYS REQUIREMENTS FOR REQUIREMENTS RELATED TO FLEXIBLE CONDUIT INSTALLATION.
5. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT OR STRUCTURAL CONDITIONS. EXPOSED CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BEAMS AND WALLS.
6. ALL SURFACE MOUNTED PANELS AND PANELBOARDS ON WALLS OR IN OTHER LOCATIONS CONSIDERED DAMP OR WET SHALL BE MOUNTED SO AS TO MAINTAIN A 1/2 INCH (MINIMUM) AIR SPACE BETWEEN THE ENCLOSURE AND THE WALL.
7. LOCATION OF PULLBOXES ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH PIPING AND OTHER UTILITIES. PULLBOXES SHALL BE 6 INCHES (MINIMUM) AWAY FROM PIPING, ETC.
8. THE CONTRACTOR SHALL PROVIDE ADDITIONAL PULLBOXES WHERE REQUIRED TO MAKE A WORKABLE INSTALLATION.
9. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAILS WHETHER OR NOT THEY ARE REFERENCED ON THE DRAWINGS.
10. CONNECTIONS BETWEEN RIGID CONDUIT AND EQUIPMENT SUBJECT TO VIBRATION SHALL BE FLEXIBLE LIQUID-TIGHT CONDUIT.
11. CONDUITS SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTION TO EQUIPMENT.
12. 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 AT EXISTING SITES.
13. EQUIPMENT LOCKOUTS SHALL BE IN STRICT ACCORDANCE WITH OWNER'S REQUIREMENTS AND PERFORMED BY THE CONTRACTOR.
14. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUITS, WIRES,FITTINGS, JUNCTION BOXES AND ALL NECESSARY COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS, TO MAKE THE ELECTRICAL INSTALLATION COMPLETE AND OPERATIONAL. ALL CONDUIT RUNS SHALL BE CONCEALED UNLESS INDICATED OTHERWISE.
15. WHERE ENCLOSURES ARE SHOWN AS STAINLESS STEEL, PAINTED STEEL ENCLOSURES MAY BE PROVIDED IF THEY ARE INSTALLED INSIDE A LOCKABLE LARGER STAINLESS OUTER ENCLOSURE. THE OUTER ENCLOSURE SHALL BE SIZED TO DISSIPATE HEAT GENERATED BY THE INNER ENCLOSURE, SOLAR GAIN AND AMBIENT TEMPERATURE.

LIGHTING SYMBOLOGY

X-#a — VAPORTIGHT LED LUMINAIRE
X = LIGHTING PANEL DESIGNATION
= CIRCUIT NUMBER
a = SWITCH DESIGNATION

WALL MOUNTED LED LUMINAIRE

A / * — LUMINAIRE CALLOUT
A = LUMINAIRE TYPE
* = APPROXIMATE MOUNTING HEIGHT AFF
CLG = CEILING MOUNT
(SEE LUMINAIRE SCHEDULE FOR MORE DETAILS)

S X-#a — LIGHT SWITCH
X = LIGHTING PANEL DESIGNATION
= CIRCUIT DESIGNATION
a = SWITCH DESIGNATION
* = SWITCH TYPE
3 — 3 WAY
4 — 4 WAY
D — DIMMER
M — MANUAL MOTOR STARTER

LIGHTING PANEL

ELECTRICAL ABBREVIATIONS

A	AMPERE, AUTOMATIC
AC	ALTERNATING CURRENT
AF	CIRCUIT BREAKER FRAME SIZE
AM	AMMETER
ANN	ANNUNCIATOR
AS	ADJUSTABLE SPEED
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BC	BARE COPPER
BKR	BREAKER
C	CONDUIT, CLOSED
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLF	CURRENT LIMITING FUSE
COM	COMMON
COMM	COMMUNICATIONS
COMP	COMPARTMENT
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY, CARD READER
CT	CURRENT TRANSFORMER
DCS	DISTRIBUTED CONTROL SYSTEM
DISC	DISCONNECT
DISTR	DISTRIBUTION
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
E	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ETM	ELAPSED TIME METER
F	FREQUENCY, FUSE, FIXED
FDR	FEEDER
FLA	FULL LOAD AMPS
FLUOR	FLUORESCENT
FM	FREQUENCY METER
FO	FIBER OPTIC
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
H	HAND
HD	HEAT DETECTOR
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HPS	HIGH PRESSURE SODIUM
HS	HAND SWITCH
HZ	HERTZ
IMC	INTERMEDIATE METALLIC CONDUIT
INCAND	INCANDESCENT
IND	INDICATION
INST	INSTANTANEOUS
I/O	INPUT/OUTPUT
Isc	SHORT CIRCUIT CURRENT, AMPS
ISO	ISOLATION
J,JB	JUNCTION BOX
KA	KILO AMPERES
KAIC	KILO AMP INTERRUPTING CURRENT
KCMIL	KILO CIRCULAR MILS
KVA	KILOVOLT AMPERE
L	LOCAL
LCP	LOCAL CONTROL PANEL
LCS	LOCAL CONTROL STATION
LOC	LOCAL
LOR	LOCAL-OFF-REMOTE
LOS	LOCKOUT STOP PUSHBUTTON
LP	LIGHTING PANEL
LRA	LOCKED ROTOR AMPS
LS	LEVEL SWITCH
LTG	LIGHTING
LTS	LIGHTS
M	MOTOR CONTACTOR COIL
mA	MILLIAMPERE
MCP	MOTOR CIRCUIT PROTECTOR
MLO	MAIN LUGS ONLY
MOV	MOTOR OPERATED VALVE
MS	MANUAL MOTOR STARTER
MTS	MANUAL TRANSFER SWITCH
NEUT	NEUTRAL
NP	NAMEPLATE
O	OPEN, OFF
OL	OVERLOAD
PA	PUBLIC ADDRESS
PB	PUSHBUTTON, PULLBOX
PC	PHOTOCELL
PCM	PROCESS CONTROL MODULE
PF	POWER FACTOR
PFM	POWER FACTOR METER
PH	PHASE
PL	PILOT LIGHT
PNLBD	PANELBOARD
PP	POWER PANELBOARD
POS	POSITION
POT	POTENTIOMETER
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PTZ	PAN-TILT-ZOOM
PWR	POWER
R	REMOTE
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE
RTU	REMOTE TERMINAL UNIT
RVSS	REDUCED VOLTAGE SOLID STATE
SEL SW	SELECTOR SWITCH
SEQ	SEQUENCE
SHLD	SHIELDED
SIG	SIGNAL
SP	SPARE
SP HTR	SPACE HEATER
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SSM	SOLID STATE METER
SSMP	SOLID STATE MOTOR PROTECTOR
ST, SH	SHUNT TRIP
STR	STARTER
SSTU	SOLID STATE TRIP UNIT
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TACH	TACHOMETER
TB	TERMINAL BOX
TERM	TERMINAL
TM	REPEAT CYCLE TIMER
TD	TIME DELAY RELAY
TS	TEMPERATURE SWITCH
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTAGE, VOLTS
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
VCP	VENDOR CONTROL PANEL
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
VP	VAPOR PROOF
W	WATTS, WIRE
WM	WATT METER
WP	WEATHERPROOF
XFMR	TRANSFORMER
XMTR	TRANSMITTER
XP	EXPLOSION PROOF

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

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TULALIP TRIBES

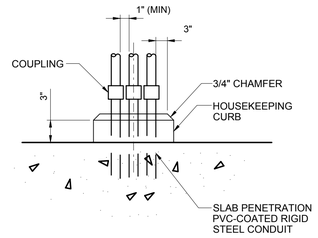
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

ELECTRICAL SYMBOLS AND ABBREVIATIONS

DESIGNED M. CHAN
DRAWN B. SHEPARD
CHECKED W. FORTUNY
PROJECT DATE 06/29/26

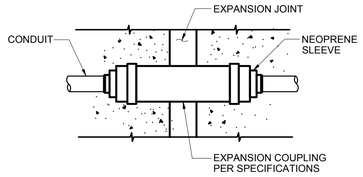
DRAWING
GE-1

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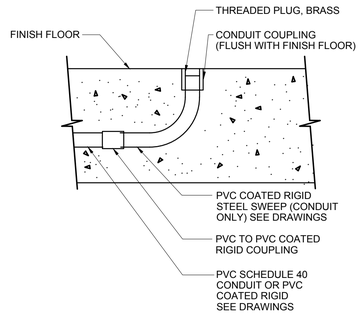
NOTE:
HOUSEKEEPING CURB REQUIRED AT ALL LOCATIONS FOR SINGLE AND MULTIPLE RISERS.

CONCRETE HOUSEKEEPING CURB
NON-HAZARDOUS LOCATIONS REV 110112 E-203

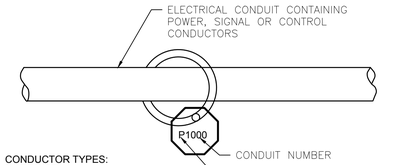


NOTE:
PROVIDE EXTERNAL BONDING JUMPER WITH METALLIC CONDUIT AND WHEN COUPLING HAS NO INTERNAL JUMPER.

EXPANSION COUPLING
REV 110112 E-204



CONDUIT TERMINATION FOR FUTURE EQUIPMENT
REV 110112 E-206

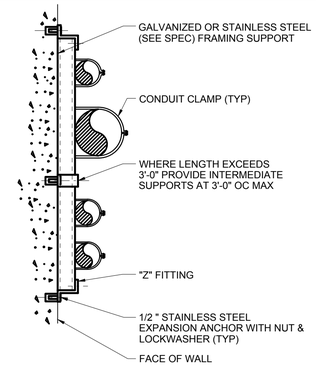


CONDUCTOR TYPES:
P - POWER
C - CONTROL OR DIGITAL STATUS
S - SIGNAL (ANALOG)

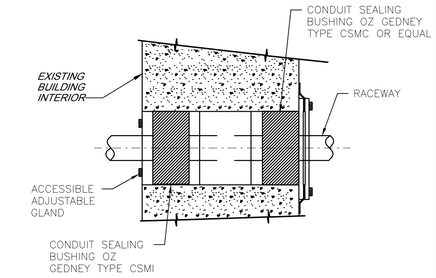
CONDUIT NUMBERS ARE LISTED ON THE CONDUIT / CABLE SCHEDULE

NOTE:
1. CONDUIT TAGS SHALL BE AFFIXED TO CONDUITS:
   A. AFTER ALL WORKING DRAWINGS ARE APPROVED AND ALL FIELD MODIFICATIONS HAVE BEEN MADE.
   B. BEFORE FINAL ACCEPTANCE TESTING HAS STARED.

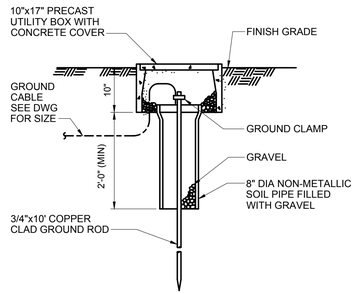
CONDUIT IDENTIFICATION TAG
E-210



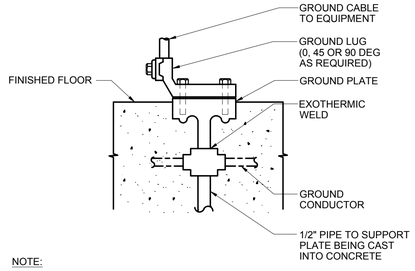
CONDUIT SUPPORT
FLUSH MOUNT REV 110112 E-212



WATERTIGHT CONDUIT SEAL
E-214

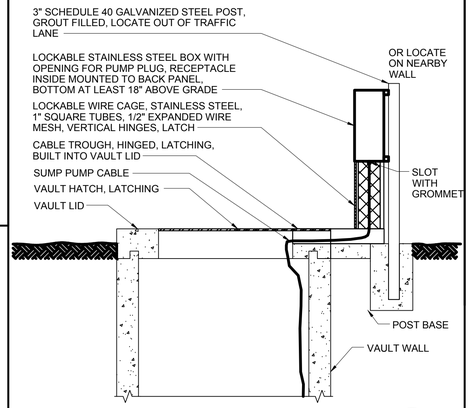


GROUND ROD AND WELL
REV 110112 E-303

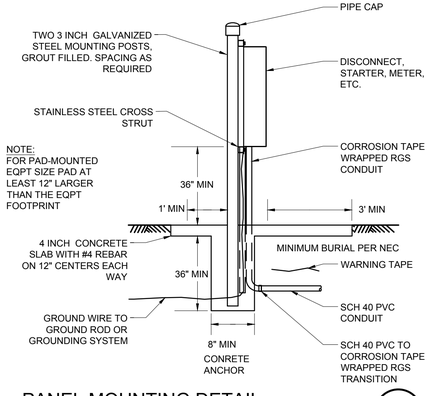


NOTE:
1. ALL BOLTS SHALL BE INSERTED IN BOLT HOLES BEFORE THE INSERT IS EMBEDDED.

GROUNDING INSERT
REV 110112 E-308

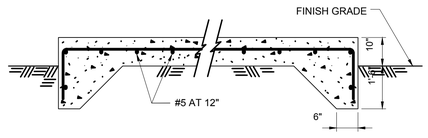


VAULT CABLE TROUGH
E-902



NOTE:
FOR PAD-MOUNTED EQPT SIZE PAD AT LEAST 12" LARGER THAN THE EQPT FOOTPRINT

PANEL MOUNTING DETAIL
NOT TO SCALE E-903



NOTES:
1. OVERALL PAD DIMENSIONS SHALL BE DETERMINED FROM ELECTRICAL DRAWING AND ADJUSTED AS REQ'D TO SUIT EQUIPMENT FURNISHED.
2. COORDINATE WITH STRUCTURAL DRAWINGS.

ELECTRICAL EQUIPMENT PAD
REV 110112 E-617

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

ELECTRICAL STANDARD DETAILS

DESIGNED M. CHAN
DRAWN B. SHEPARD
CHECKED W. FORTUNY
PROJECT DATE 06/29/26

DRAWING
GE-2

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208/120 VOLTS | **Ph: 3** | **SURGE PROTECTIVE DEVICE: EXTERNAL**
175 A MAIN BREAKER | **W: 4** | **PANELBOARD: LP-012** | **FEED: BOTTOM**
22 kAIC SHORT CIRCUIT | **A: 200** | **LOCATION: INDOORS** | **MOUNTING: SURFACE**

LOAD DESCRIPTION	kVA Ph.A	kVA Ph.B	kVA Ph.C	LTG.	REC.	MIS.	CIR.	BKR.	BKR.	CIR.	MIS.	REC.	LTG.	kVA Ph.A	kVA Ph.B	kVA Ph.C	LOAD DESCRIPTION
RTP-LP, CONTROL POWER	0.60					X	1	20	20	2	X			1.00			FISH COUNTERS, FC-1, FC-2
RTP-LP, HVAC POWER		1.20				X	3	20	20	4	X				0.20		TRANSFER SWITCH HEATER, ATS-002
RTP-LP, RECEPTACLE			0.36		X		5	20	20	6		X				1.13	TRASH PUMP RECEPTS, INT RACEWAY
LIGHTS, SPAWNING SHED	0.61			X			7	20	20	8		X		1.13			TRASH PUMP RECEPTS, LOWER RCW
RECEPTS, FLOW BOXES		0.72			X		9	20	30	10		X			1.84		HOISTS ME-5 & 6 RECEPTS
RECEPTS			1.44		X		11	20	30	12		X				1.84	HOISTS ME-7A & 7B RECEPTS
RECEPTS, SPAWNING SHED	1.08				X		13	20	20	14		X		0.69			CROWDER CHARGER, ME-2 RECPT
RECEPTS, SPAWNING SHED		1.08			X		15	20	20	16		X			0.69		CROWDER CHARGER, ME-3 RECPT
RECEPTS, LOWER RACEWAY			1.44		X		17	20	30	18		X				2.07	CROWDER CHARGER, ME-4 RECPT
LIGHTS, YARD - POLES	0.16			X			19	20	20	20		X		0.83			VAULT SUMP PUMP RECPT, P-9
RECPTS, YARD - POLES		1.08			X		21	20	20	22		X			0.36		RECEPT, P-3, 4 VAULT
SPARE							23	20	20	24	X					0.51	TRENCH DRAIN VALVES, PGV-1,5,9,14
EXHAUST FAN, TRTMNT BLDG, 11EF-1	0.67					X	25	20		26							
LIGHTS, TREATMENT BLDG		0.26		X			27	20	20	28							3P SPARE
RECEPTS IN TRTMNT BLDG, NORTH			0.72		X		29	20		30							
RECEPTS IN TRTMNT BLDG, SOUTH	1.08				X		31	30		32	X			0.90			SPAWNING WASTE PUMPS
RECEPTS EXTERIOR, TRTMNT BLDG		1.44					33	30	20	34	X				0.90		3P VCP-P-5/6 (P-5, P-6)
SPARE 2P							35	20		36	X					0.90	(ONLY 1 RUNS AT A TIME)
GFCI-B (20mA)							37			38	X			0.00			
SPARE 2P							39	20	30	40	X				0.00		3P SURGE PROTECTIVE DEVICE
GFCI-B (20mA)							41			42	X					0.00	
	4.20	5.78	3.96				TOTAL		TOTAL					4.55	3.99	6.44	
	PHASE LOAD			TOTAL LOAD													
	8.75	9.77	10.40	28.9 kVA													(CONNECTED LOAD, NOT DEMAND LOAD)

GENERAL SHEET NOTES

1. SEE THE GENERAL NOTES ON SHEET GE-1 AND GE-4. .
2. FURNISH, INSTALL AND CONNECT CONDUIT AND WIRE FOR ALL PANELBOARD AND MISCELLANEOUS LOADS. CONDUIT AND WIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. MINIMUM CONDUIT SIZE FOR PANELBOARD LOADS SHALL BE 3/4" FOR SURFACE MOUNTED AND 1" FOR ENCASED CONDUITS IN ACCORDANCE WITH SECTIONS 26 05 33 AND 26 05 43. MINIMUM WIRE FILL SHALL BE 2#12, #12 GROUND FOR 1 PHASE LOADS, 3#12, #12 GROUND FOR 3 PHASE LOADS, OR LARGER AS SHOWN OR REQUIRED BY CODE IN ACCORDANCE WITH SECTION 26 05 19. FOR 120/208 VAC PANELBOARD LOADS NOT SHOWN ON THE SINGLE-LINE DIAGRAM THE LAST TWO DIGITS OF CABLE NUMBER SHALL BE THE PANELBOARD CIRCUIT/POLE NUMBER.
3. SEE THE PLANS, SINGLE LINE DIAGRAM AND CONDUIT DEVELOPMENT DIAGRAM FOR ADDITIONAL INFORMATION.
4. VCP = VENDOR CONTROL PANEL. FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED BY CONTRACTOR.
5. PROVIDE RACEWAYS, CONDUCTORS, APPURTENANCES, ETC. FOR VENDOR PACKAGE EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS, CODE, AND CONTRACT DOCUMENTS.

ELECTRICAL LUMINAIRE SCHEDULE

SYMBOL	TYPE	LAMPS	MANUFACTURER	CATALOG NO. / POWER	DESCRIPTION
	A	LED	COOPER/ EATON/ METALUX	4VT3-LD5-6-G-UNV-L850-CD1-SS-VBK-AYC-CHAIN/SETU, OR EQUAL / 120/277VAC, 51 WATTS	LENSED LED FIXTURE, WET LABEL, REINFORCED FIBERGLASS BODY, 4 FOOT LED, CLEAR LENS, STAINLESS STEEL LATCHES, PENDANT OR CHAIN MOUNT. GENERAL DISTRIBUTION, DIMMABLE, 4,500-5,500K COLOR RANGE. PROVIDE MOUNTING ACCESSORIES FOR EACH LOCATION.
	F	LED	ACUITY	TFX1-LED-50K-MVOLT-THK-DDBXD, OR EQUAL. 120/277VAC, 54 WATTS.	OUTDOOR LED FLOOD FIXTURE, WET LABEL. 7,300 LUMENS, TYPE IV DISTRIBUTION, DIMMABLE 4,500-5,500 COLOR RANGE, PHOTOCELL. PROVIDE POLE, 20FT SQUARE WITH HAND HOLE AND DUPLEX GFCI RECEPTACLE WITH LOCKING METAL WEATHERPROOF WHILE-IN USE COVER. PROVIDE BIRD SPIKES ON FIXTURE AND POLE. FABRICATE GLARE GUARD TO SHIELD LIGHT INTRUSION FROM RACEWAYS, PONDS AND PUBLIC ROADS.
	W	LED	AV POLES & LIGHTS	FWP-30-3000K-120-277V-DARK BRONZE-PHOTOCELL, MOTION SENSOR, OR EQUAL.	OUTDOOR FULL CUT-OFF WALL FIXTURE, WET LABEL, DIE-CAST ALUMINUM HOUSING, 4,216 LUMENS, 3,000K COLOR. PHOTOCELL AND MOTION SENSOR.

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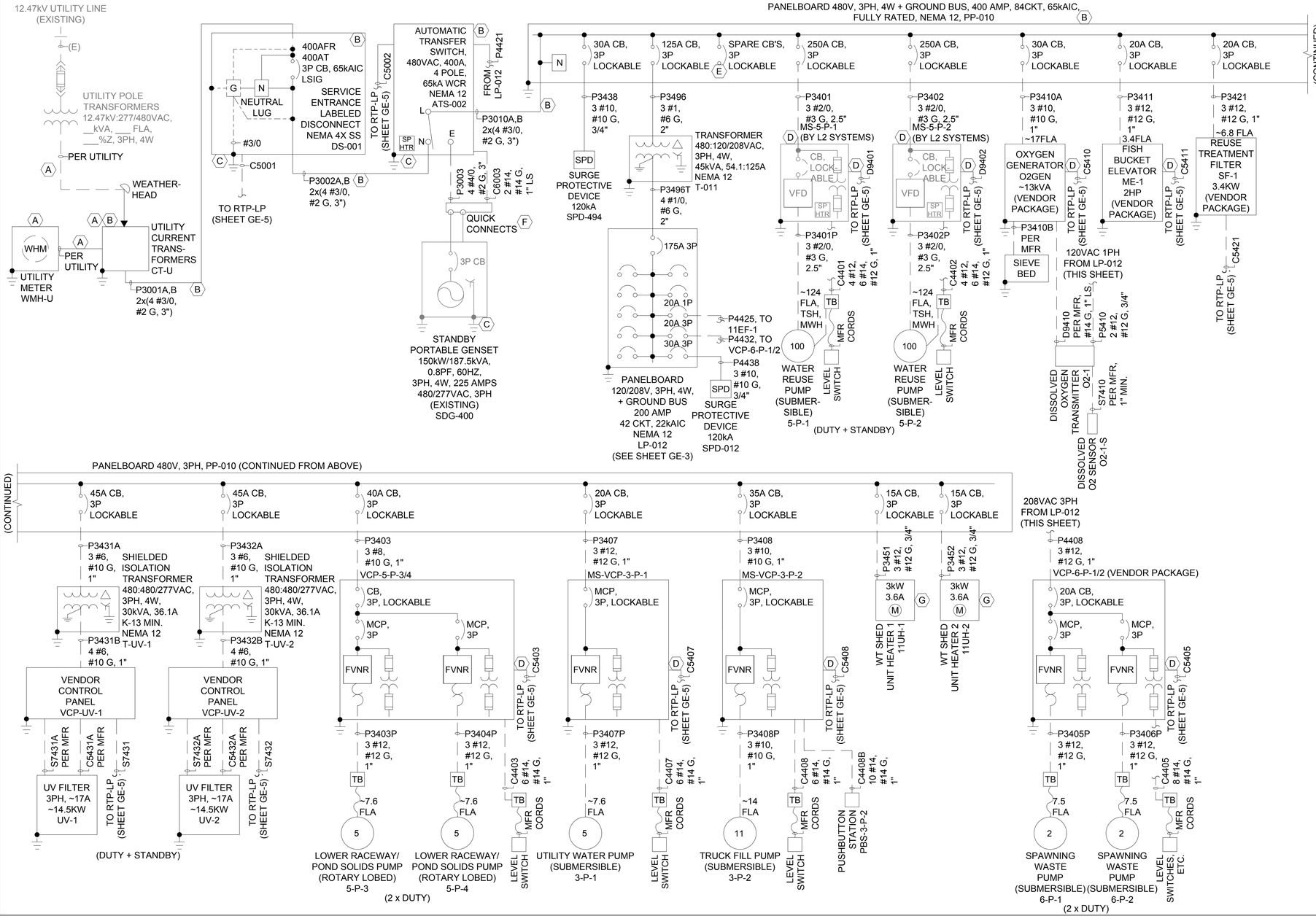
TULALIP TRIBES

TULALIP TRIBES
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT
PANELBOARD SCHEDULES

DESIGNED M. CHAN
DRAWN B. SHEPARD
CHECKED W. FORTUNY
PROJECT DATE 06/29/26

DRAWING
GE-3

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GENERAL SHEET NOTES

1. SEE THE GENERAL NOTES ON SHEET GE-1 AND GE-3. CONDUIT AND WIRING FOR LIGHTS AND RECEPTACLES ARE NOT SHOWN ON THIS SHEET. ALL OUTDOOR ENCLOSURES SHALL BE RATED NEMA 3R STAINLESS STEEL OR BETTER.
2. SEE THE SITE PLAN, PANEL SCHEDULES AND CONDUIT DEVELOPMENT DIAGRAM FOR ADDITIONAL INFORMATION.
3. VCP = VENDOR CONTROL PANEL. FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED BY CONTRACTOR.
4. PROVIDE RACEWAYS, CONDUCTORS, APPURTENANCES, ETC. FOR VENDOR PACKAGE EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS, CODE, AND CONTRACT DOCUMENTS.
5. (VD) = WIRE AND CONDUIT SIZE INCREASED FOR VOLTAGE DROP REASONS.
6. COORDINATE NEW CONTROL, SIGNAL DATA INPUTS AND NEW POWER TO THE REMOTE TERMINAL PANEL WITH THE OWNER'S SYSTEM INTEGRATOR, L2 SYSTEMS LLC. RTU PANEL RTP-LP IS FURNISHED BY L2 SYSTEMS LLC, AND INSTALLED AND WIRES TERMINATED BY THE CONTRACTOR.

SHEET KEYNOTES

A. PROVIDE NEW 480/277VAC UTILITY ELECTRICAL SERVICE WITH CENTER GROUNDED WYE. CONTRACTOR SHALL PROVIDE ALL COMPONENTS NOT PROVIDED BY THE UTILITY, MOUNTING HARDWARE, ETC. TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. PROVIDE SERVICE EQUIPMENT, METERING, AND METER SECONDARY CABLES PER UTILITY REQUIREMENTS, SNOHOMISH COUNTY PUD NO. 1.

B. PROVIDE WEATHERHEAD, SECONDARY CONDUIT, SERVICE DISCONNECT, CIRCUIT BREAKER FRAME RATING, AUTOMATIC TRANSFER SWITCH AND PANELBOARD RATED FOR 400 AMPS. PROVIDE SERVICE DISCONNECT CIRCUIT BREAKER TRIP RATING TO MATCH TRANSFORMER PROVIDED. PROVIDE THERMOSTATICALLY CONTROLLED HEATER INSIDE ATS-002 IN ACCORDANCE WITH SECTION 26 05 15. EQUIPMENT WITH PAINTED STEEL ENCLOSURES MAY BE PLACED INSIDE LARGER NEMA 4X STAINLESS STEEL ENCLOSURES. 480VAC CIRCUIT BREAKERS SHALL BE FULLY RATED FOR THE kAIC VALUE SHOWN, AND NOT SERIES RATED.

C. PROVIDE ACCESSIBLE GROUNDING POINT IN A GROUND WELL. PROVIDE A #1/0 GROUND RING AND THREE GROUND RODS AROUND THE NEW SERVICE EQUIPMENT. PROVIDE #2 GROUND FROM NEW STRUCTURAL STEEL TO THE GROUND RING. PROVIDE TWO #2 GROUNDS FROM ANY NEW STRUCTURAL REBAR TO THE GROUND RING. THE GROUNDING SHOWN FROM THE ELECTRICAL ENCLOSURES SHALL BE TO THE GROUND RING.

D. COORDINATE NEW CONTROL, SIGNAL DATA INPUTS AND NEW POWER TO THE REMOTE TERMINAL PANEL WITH THE OWNER'S SYSTEM INTEGRATOR, L2 SYSTEMS LLC. RTU PANEL RTP-LP, MS-5-P-1 AND MS-5-P-2 SHALL BE FURNISHED BY L2 SYSTEMS LLC, AND INSTALLED AND WIRES TERMINATED BY THE CONTRACTOR.

E. PROVIDE SPARE CIRCUIT BREAKERS IN 480VAC PANELBOARD PP-010 AS FOLLOWS: 2x 30A 3P; 3x 20A 3P, 3x 15A 3P.

F. PROVIDE AUTOMATIC TRANSFER SWITCH (ATS) WITH FIVE 400 AMP FEMALE CAMLOCK CONNECTORS (BOYGW) TO MATCH EXISTING CABLE OF OWNER'S EXISTING PORTABLE GENERATOR. PROVIDE ATS WITH MINI CONNECTOR FOR AUTO START CABLE OF THE GENERATOR.

G. WATER TREATMENT SHED UNIT HEATERS HAVE BUILT-IN THERMOSTATS. SET THE THERMOSTATS AT DIFFERENT TEMPERATURES AS LISTED ON SHEET 11E-1.

ELECTRICAL LOADS + FUTURE

NAME	HP	CONNECTED kVA	CONNECTED FLA	PEAKING FACTOR
T-011	-	45.0	54.1	0.55
MS-5-P-1	100	98.8	~124.0	1
MS-5-P-2	100	98.8	~124.0	0
O2GEN	-	~13.0	~17.0	1
ME-1	2	2.7	3.4	1
VCP-SF-1	-	~5.5	~6.8	1
VCP-UV-1	-	~14.5	~17.1	1
VCP-UV-2	-	~14.5	~17.1	1
VCP-5-P-3/4	5+5	11.2	~14.0	1
VCP-3-P-1	5	6.4	~7.6	1
MS-P-8	11	11.2	~14.0	1
11UH-1	-	3.0	3.6	1
11UH-2	-	3.0	3.6	1
25% LARGEST MOTOR	25	24.7	31	1
CONNECTED LOAD		364.5	436.8	
PEAK LOAD		228.6	275.7	

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

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TULALIP TRIBES

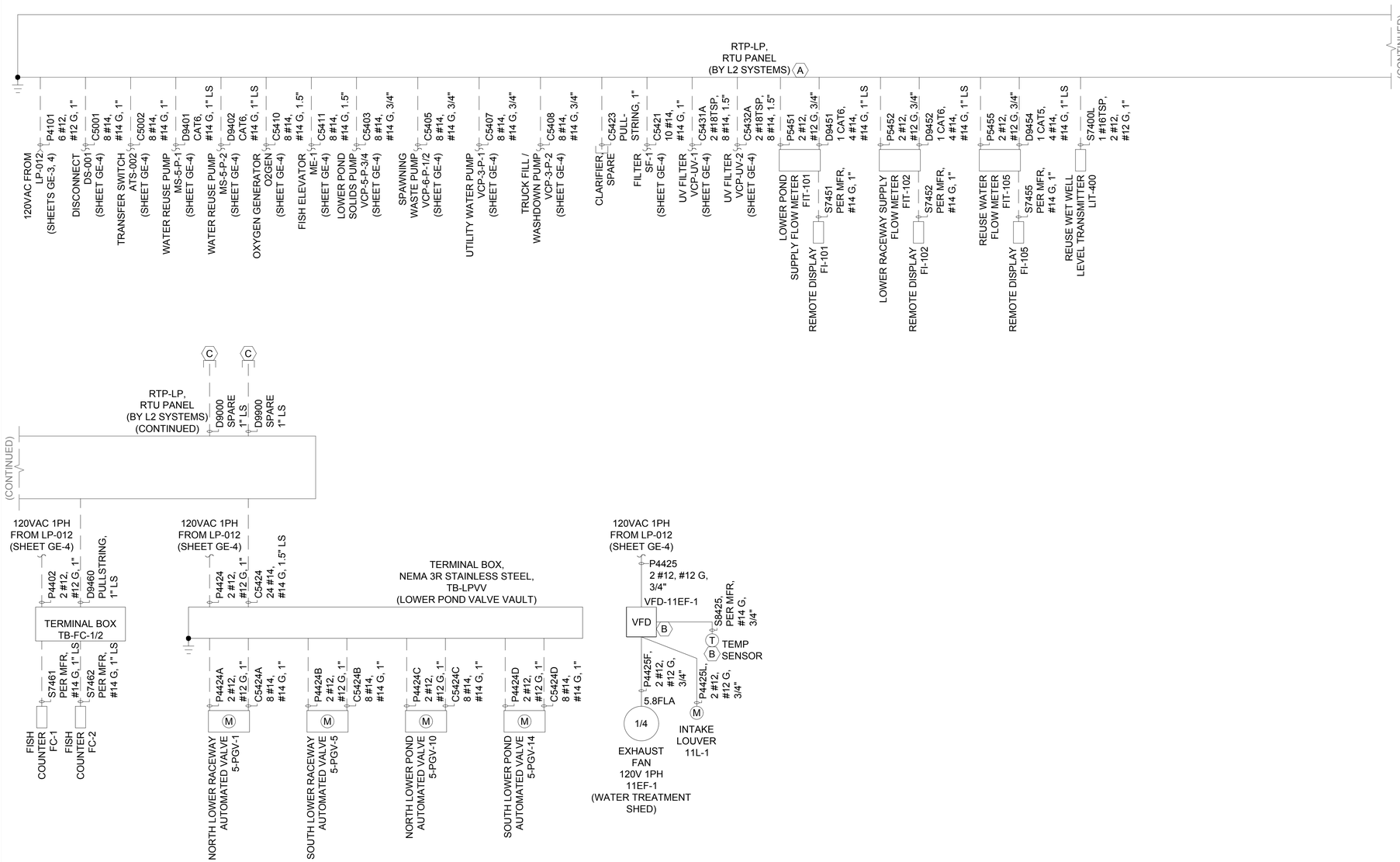
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SINGLE-LINE DIAGRAM

DESIGNED M. CHAN
DRAWN B. SHEPARD
CHECKED W. FORTUNY
PROJECT DATE 06/29/26

DRAWING
GE-4

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GENERAL SHEET NOTES

1. SEE THE GENERAL NOTES ON SHEET GE-1 AND GE-3. CONDUIT AND WIRING FOR LIGHTS AND RECEPTACLES ARE NOT SHOWN ON THIS SHEET. ALL OUTDOOR ENCLOSURES SHALL BE RATED NEMA 3R STAINLESS STEEL OR BETTER.
2. SEE THE SITE PLAN, PANEL SCHEDULES AND SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. VCP = VENDOR CONTROL PANEL. FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED BY CONTRACTOR.
4. PROVIDE RACEWAYS, CONDUCTORS, APPURTENANCES, ETC. FOR VENDOR PACKAGE EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS, CODE, AND CONTRACT DOCUMENTS.

SHEET KEYNOTES

A. COORDINATE NEW CONTROL, SIGNAL DATA INPUTS AND NEW 120VAC POWER TO THE REMOTE TERMINAL PANEL WITH THE OWNER'S SYSTEM INTEGRATOR, L2 SYSTEMS LLC. RTU PANEL RTP-LP, MS-P-1 AND MS-P-2 ARE FURNISHED BY L2 SYSTEMS LLC, AND INSTALLED AND WIRES TERMINATED BY THE CONTRACTOR.

B. EXHAUST FAN VARIABLE FREQUENCY DRIVE (VFD) SHALL BE PROVIDED WITH: HIM (KEYPAD/DISPLAY), RELAY OUTPUT RATED TO CONTROL THE LOUVER MOTOR, AND AN ANALOG INPUT FOR THE TEMPERATURE SENSOR. PROVIDE THE TEMPERATURE SENSOR (THERMISTOR, RTD, ETC.) TO MATCH THE VFD'S ANALOG INPUT BOARD. THE VFD ENCLOSURE SHALL BE RATED NEMA 12 OR BETTER WITH NO EXPOSED ENERGIZED PARTS. VFD MAY BE NEMA 1 IF ENCLOSED IN A NEMA 12 ENCLOSURE PROVIDED WITH EXTERNALLY REMOVABLE DUST FILTERS ON THE INLET AND OUTLET AIR VENTS. PROGRAM THE VFD TO AUTOMATICALLY ADJUST THE FAN SPEED TO MAINTAIN THE ROOM TEMPERATURE AT 75 DEGREES F. PROGRAM THE VFD TO OPEN THE LOUVER WHEN THE FAN IS RUNNING.

C. STUB OUT CONDUITS FOR FUTURE FIBER OPTIC AT LEAST 12 INCHES PAST THE BUILDING FOUNDATION AND MARK WITH STAKES AND TRACING WIRES.

REV	DATE	BY	DESCRIPTION
A	06/29/26	RM	PRE-FINAL SUBMITTAL

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TULALIP TRIBES

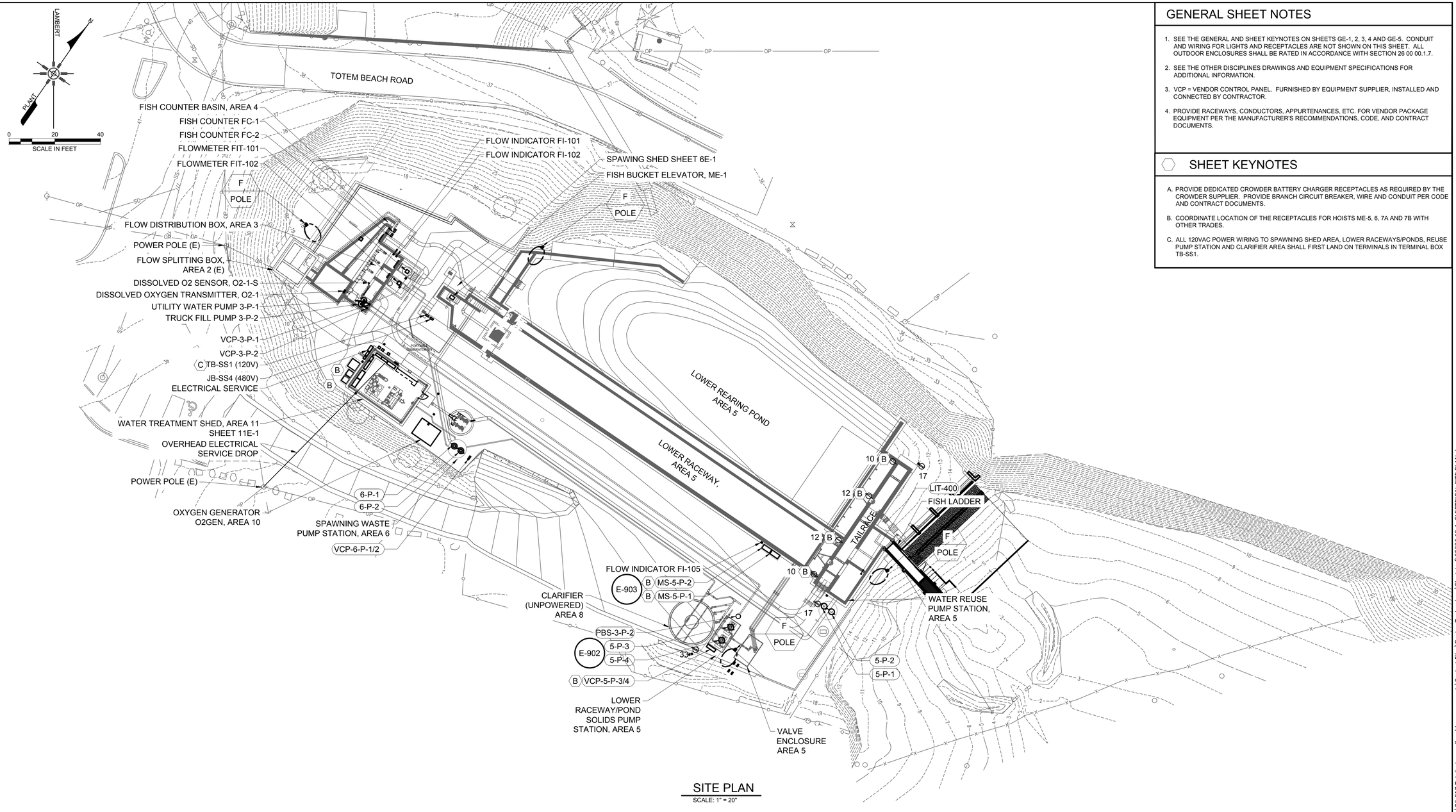
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

CONDUIT DEVELOPMENT

DESIGNED M. CHAN
DRAWN B. SHEPARD
CHECKED W. FORTUNY
PROJECT DATE 06/29/26

DRAWING
GE-5

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SITE PLAN

SCALE: 1" = 20"

GENERAL SHEET NOTES

1. SEE THE GENERAL AND SHEET KEYNOTES ON SHEETS GE-1, 2, 3, 4 AND GE-5. CONDUIT AND WIRING FOR LIGHTS AND RECEPTACLES ARE NOT SHOWN ON THIS SHEET. ALL OUTDOOR ENCLOSURES SHALL BE RATED IN ACCORDANCE WITH SECTION 26 00 00.1.7.
2. SEE THE OTHER DISCIPLINES DRAWINGS AND EQUIPMENT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. VCP = VENDOR CONTROL PANEL. FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED AND CONNECTED BY CONTRACTOR.
4. PROVIDE RACEWAYS, CONDUCTORS, APPURTENANCES, ETC. FOR VENDOR PACKAGE EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS, CODE, AND CONTRACT DOCUMENTS.

SHEET KEYNOTES

A. PROVIDE DEDICATED CROWDER BATTERY CHARGER RECEPTACLES AS REQUIRED BY THE CROWDER SUPPLIER. PROVIDE BRANCH CIRCUIT BREAKER, WIRE AND CONDUIT PER CODE AND CONTRACT DOCUMENTS.

B. COORDINATE LOCATION OF THE RECEPTACLES FOR HOISTS ME-5, 6, 7A AND 7B WITH OTHER TRADES.

C. ALL 120VAC POWER WIRING TO SPAWNING SHED AREA, LOWER RACEWAYS/PONDS, REUSE PUMP STATION AND CLARIFIER AREA SHALL FIRST LAND ON TERMINALS IN TERMINAL BOX TB-SS1.

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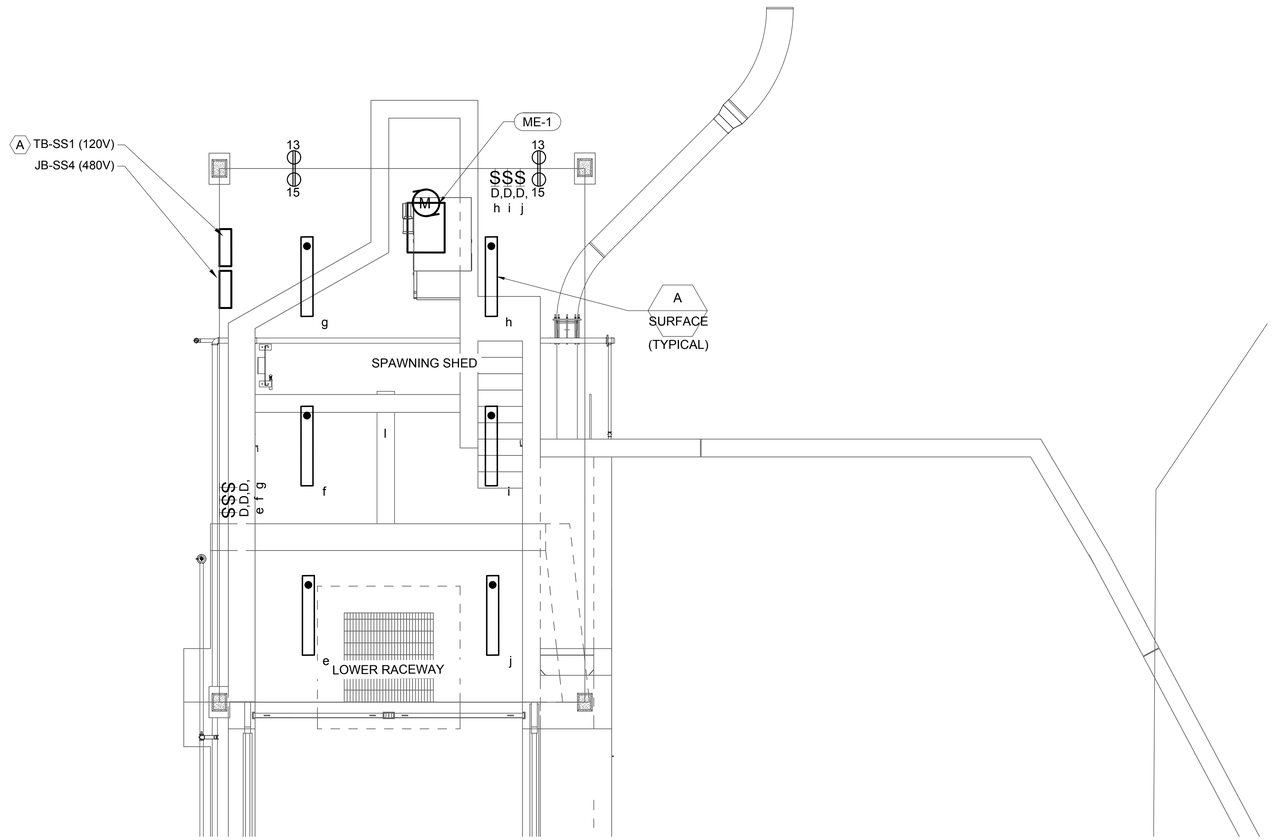
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

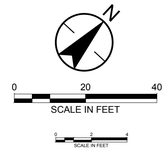
ELECTRICAL SITE PLAN

DESIGNED M. CHAN
DRAWN B. SHEPARD
CHECKED W. FORTUNY
PROJECT DATE 06/29/26

DRAWING
1E-1

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GENERAL SHEET NOTES

1. SEE THE GENERAL AND SHEET KEYNOTES ON SHEETS GE-1, GE-2, GE-3, GE-4 AND GE-5. CONDUIT AND WIRING FOR LIGHTS AND RECEPTACLES ARE NOT SHOWN ON THIS SHEET. ALL OUTDOOR ENCLOSURES SHALL BE RATED IN ACCORDANCE WITH SECTION 26 00 0 .1.7.
2. SEE THE OTHER DISCIPLINES DRAWINGS AND EQUIPMENT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. VCP = VENDOR CONTROL PANEL. FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED AND CONNECTED BY CONTRACTOR.
4. PROVIDE RACEWAYS, CONDUCTORS, APPURTENANCES, ETC. FOR VENDOR PACKAGE EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS, CODE, AND CONTRACT DOCUMENTS.
5. MOUNT OUTDOOR, WEATHER RATED, SWITCHES AND RECEPTACLES ON STRUT SUPPORTED FREESTANDING PEDESTALS AT LOCATIONS INDICATED.

SHEET KEYNOTES

A. ALL 120VAC POWER WIRING TO SPAWNING SHED AREA, LOWER RACEWAYS/PONDS, REUSE PUMP STATION AND CLARIFIER AREA SHALL FIRST LAND ON TERMINALS IN TERMINAL BOX TB-SS1.

REV	DATE	BY	DESCRIPTION
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WARNING
0 1/2 1
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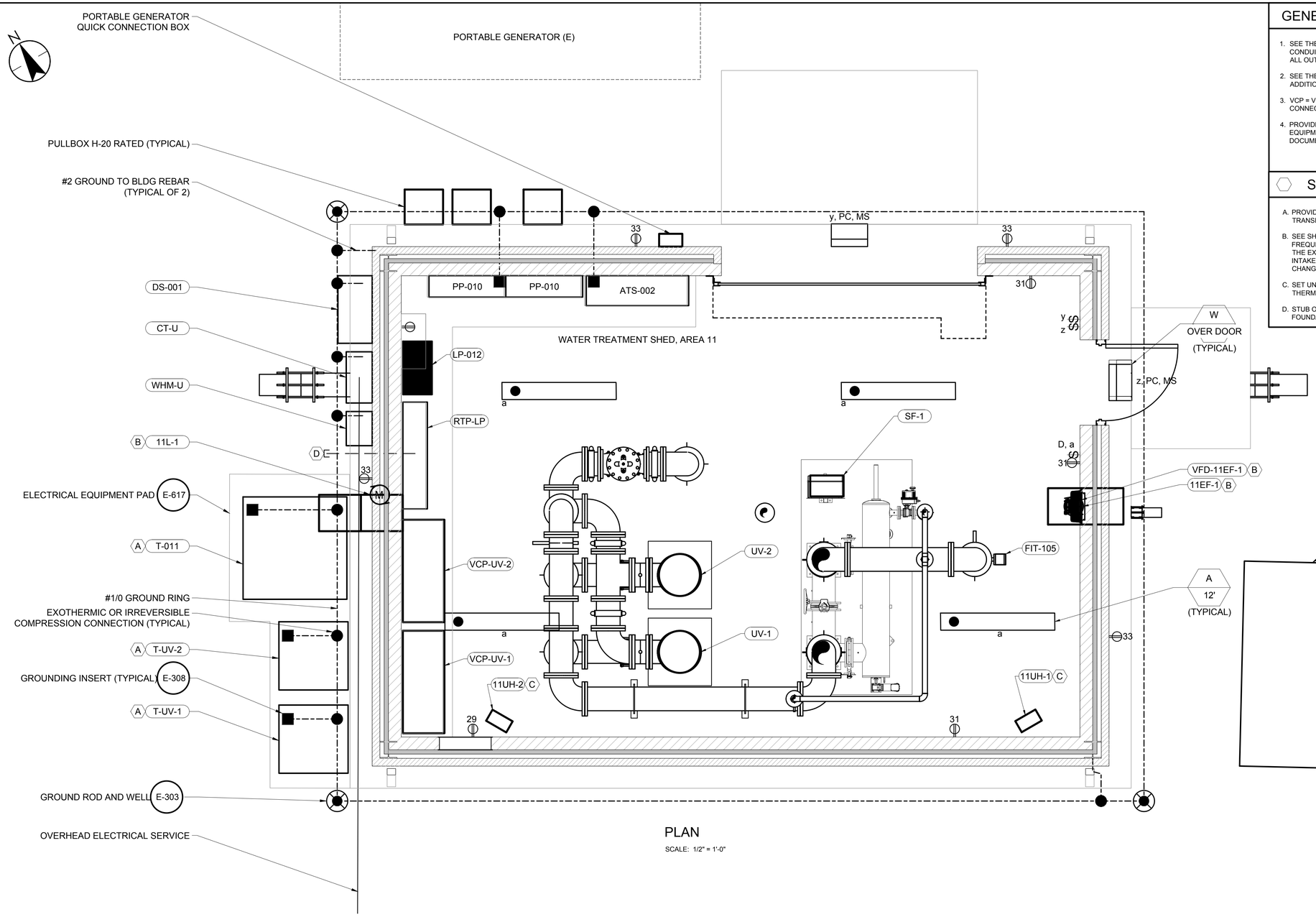
TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

SPAWING SHED
ELECTRICAL PLAN

DESIGNED M. CHAN
DRAWN B. SHEPARD
CHECKED W. FORTUNY
PROJECT DATE 06/29/26

DRAWING
6E-1

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PLAN

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

GENERAL SHEET NOTES

1. SEE THE GENERAL AND SHEET KEYNOTES ON SHEETS GE-1, GE-2, GE-3, GE-4 AND GE-5. CONDUIT AND WIRING FOR LIGHTS AND RECEPTACLES ARE NOT SHOWN ON THIS SHEET. ALL OUTDOOR ENCLOSURES SHALL BE RATED IN ACCORDANCE WITH SECTION 26 00 0 .1.7.
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4. PROVIDE RACEWAYS, CONDUCTORS, APPURTENANCES, ETC. FOR VENDOR PACKAGE EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS, CODE, AND CONTRACT DOCUMENTS.

SHEET KEYNOTES

A. PROVIDE A PARTIAL ROOF FOR RAIN PROTECTION OF THE OUTDOOR ELECTRICAL TRANSFORMERS ON THE NORTH SIDE OF THE WATER TREATMENT SHED.

B. SEE SHEET GE-5 FOR ADDITIONAL INFORMATION REGARDING THE EXHAUST FAN VARIABLE FREQUENCY DRIVE (VFD) AND LOUVER. PROVIDE GRAVITY DAMPER AND BUG SCREEN ON THE EXHAUST LOUVER. PROVIDE 90 DEGREE RAIN HOOD AND BUG SCREEN ON THE AIR INTAKE AND EXHAUST LOUVERS. SIZE FAN TO PROVIDE A MINIMUM OF TWELVE AIR CHANGES PER HOUR.

C. SET UNIT HEATER 11UH-1 THERMOSTAT AT 45 DEGREES. SET UNIT HEATER 11UH-2 THERMOSTAT AT 45 DEGREES.

D. STUB OUT CONDUITS FOR FUTURE FIBER OPTIC AT LEAST 12 INCHES PAST THE BUILDING FOUNDATION AND MARK WITH STAKES AND TRACING WIRES.

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TULALIP TRIBES

TULALIP CREEK LOWER POND IMPROVEMENTS PROJECT

WATER TREATMENT SHED
ELECTRICAL PLAN

DESIGNED M. CHAN
DRAWN B. SHEPARD
CHECKED W. FORTUNY
PROJECT DATE 06/29/26

DRAWING
11E-1

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