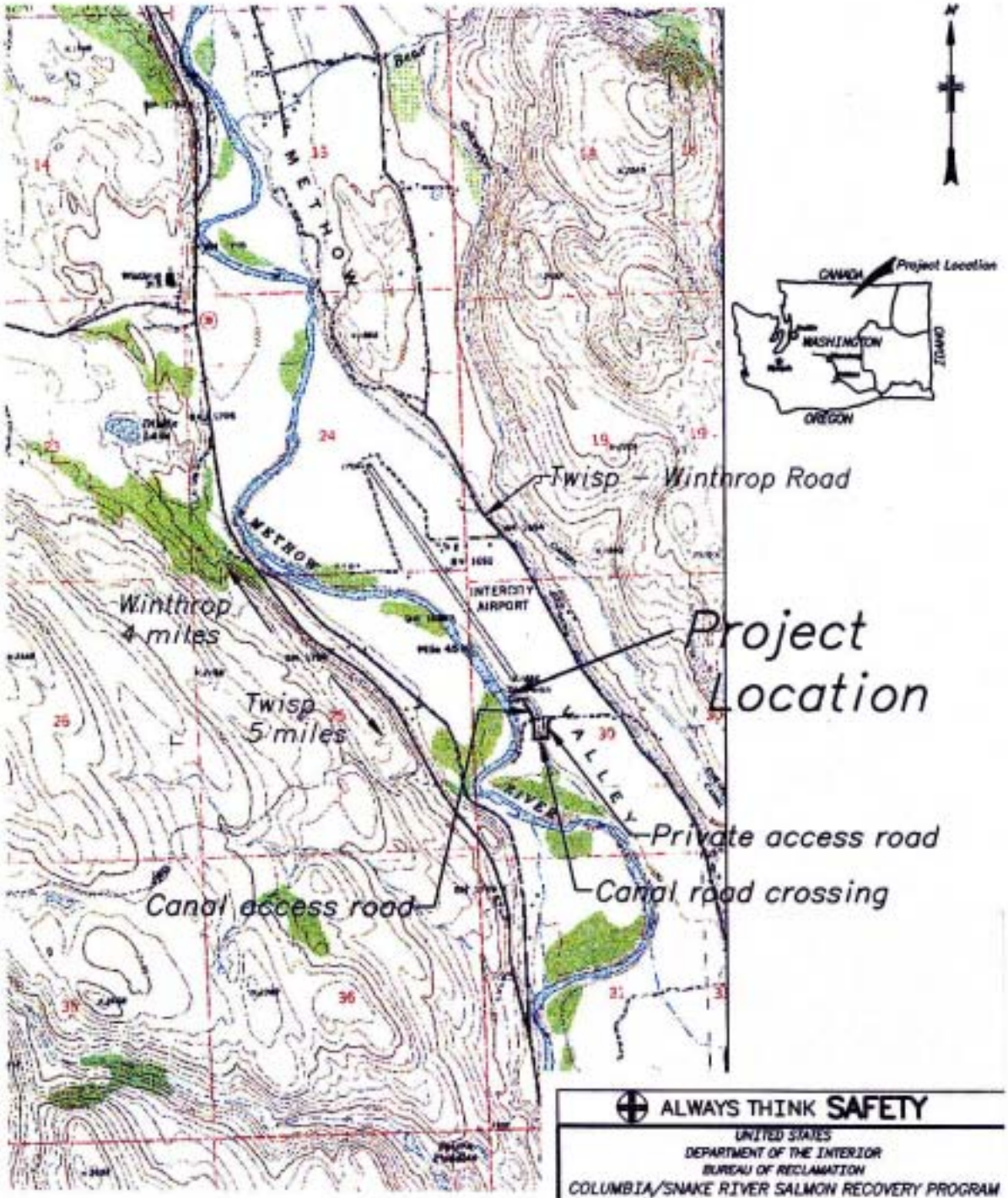
APPENDIX C

MVID East Fish Screen Designs



0 1 1.5
SCALE OF MILES

ALWAYS THINK **SAFETY**

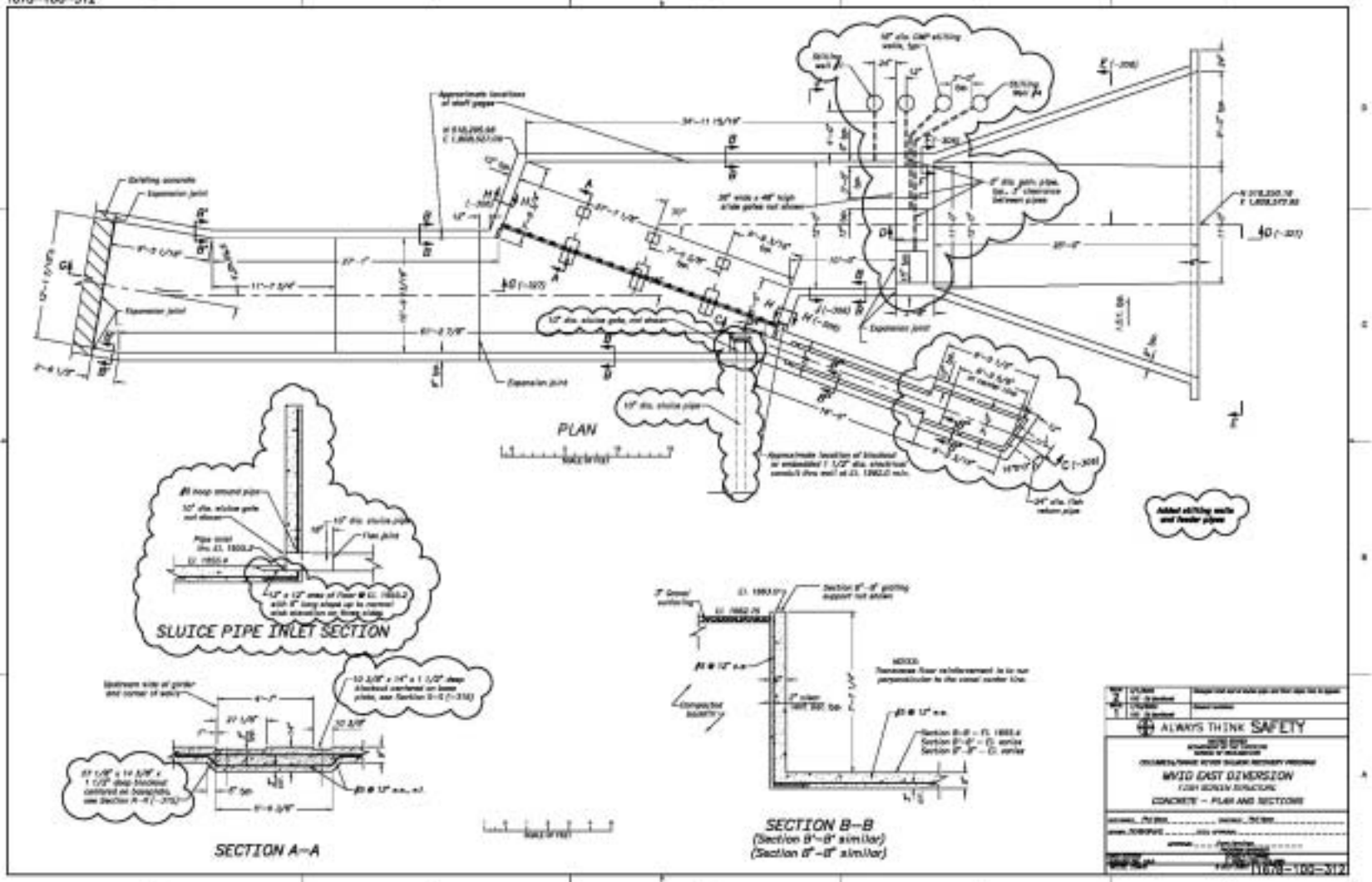
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
COLUMBIA/SNAKE RIVER SALMON RECOVERY PROGRAM

MVID EAST DIVERSION

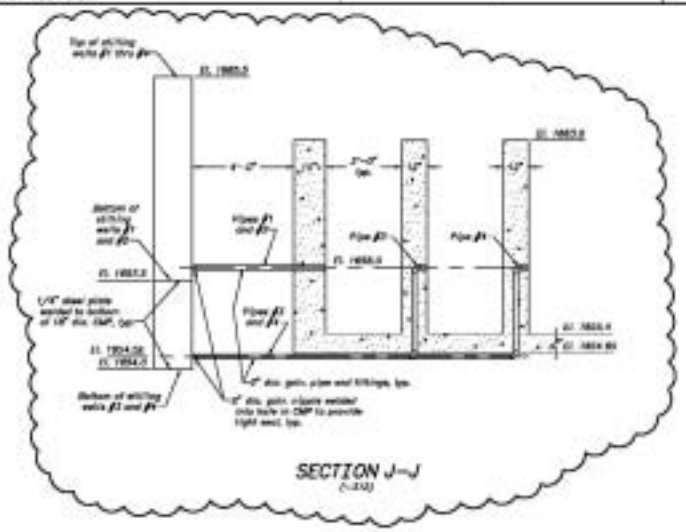
LOCATION MAP

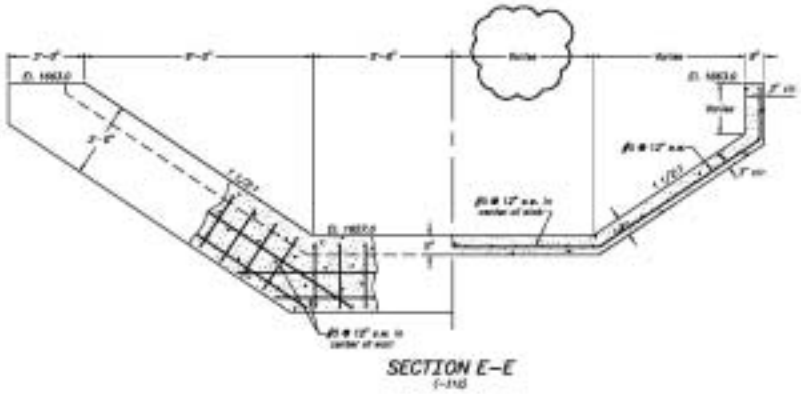
DESIGNED	TECH. APPROVAL
DRAWN SGrome	SUBMITTED
CHECKED	APPROVED REGIONAL ENGINEER
CADD SYSTEM AutoCAD Rel. 15.06	CADD FILENAME 1678-100-305.DWG
BOISE, IDAHO MAY 1, 2003	1678-100-305

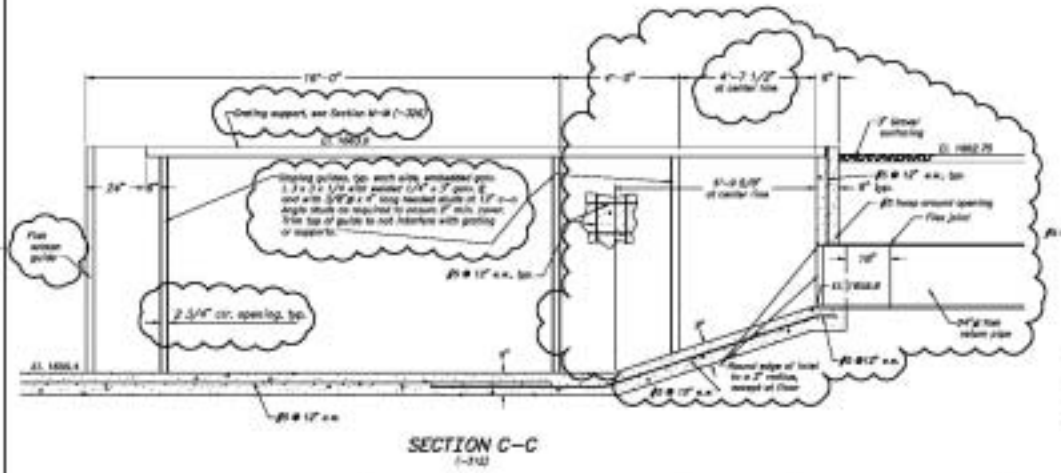
1678-100-312

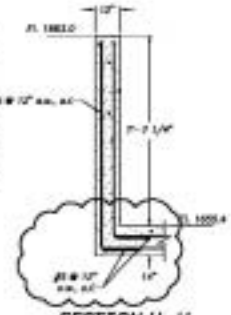

PLAN
SLUICE PIPE INLET SECTION
SECTION A-A
SECTION B-B
(Section B'-B' similar)
(Section B"-B" similar)
ALWAYS THINK SAFETY
WVID EAST DIVERSION
CONCRETE - PLAN AND SECTIONS
1678-100-312

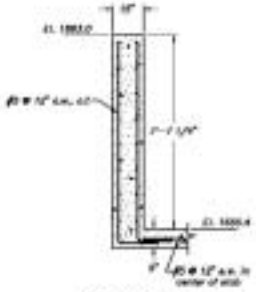
1678-100-308











ALWAYS THINK SAFETY

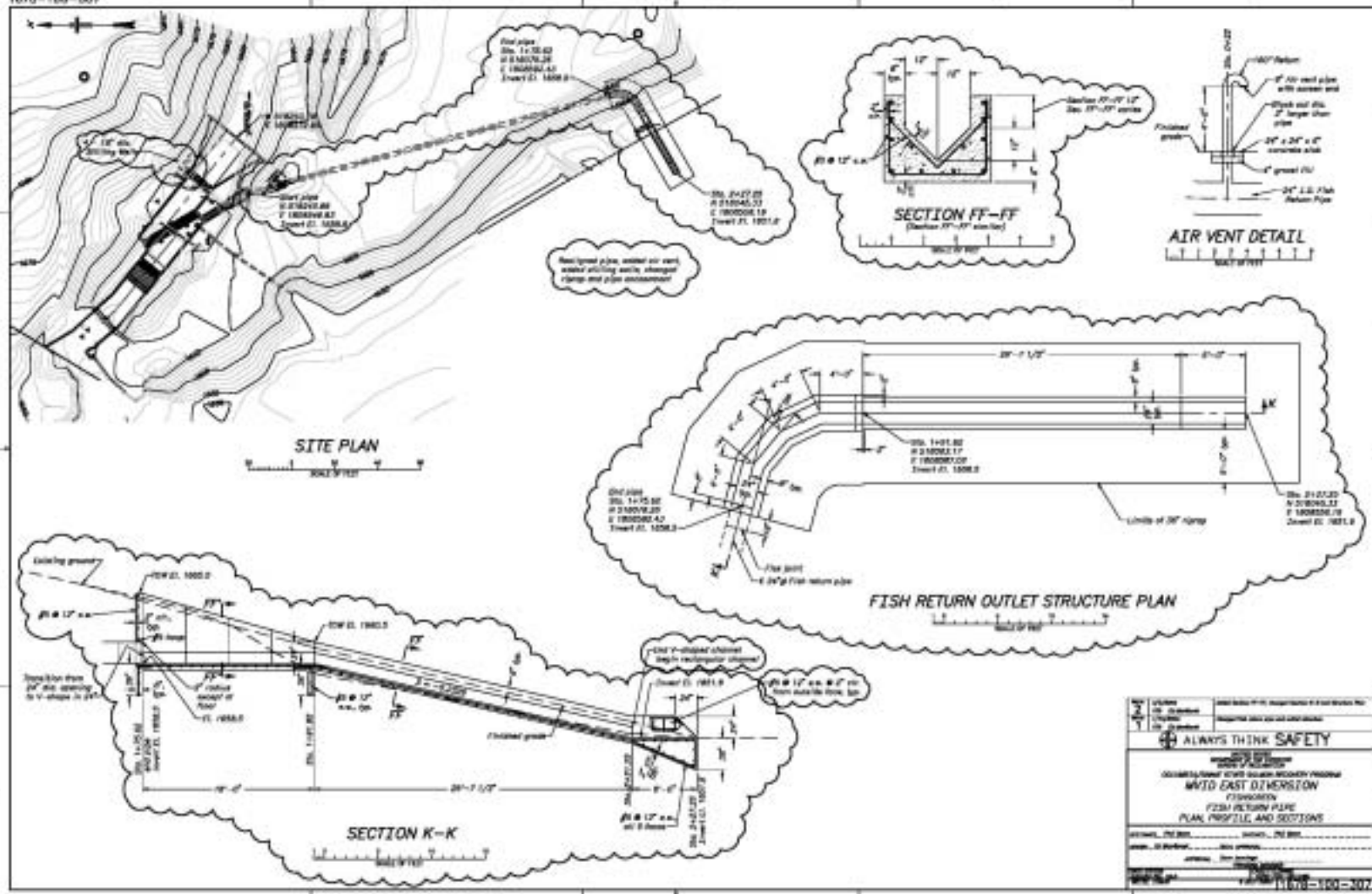
WVID EAST DIVERSION

FISH SCREEN STRUCTURE

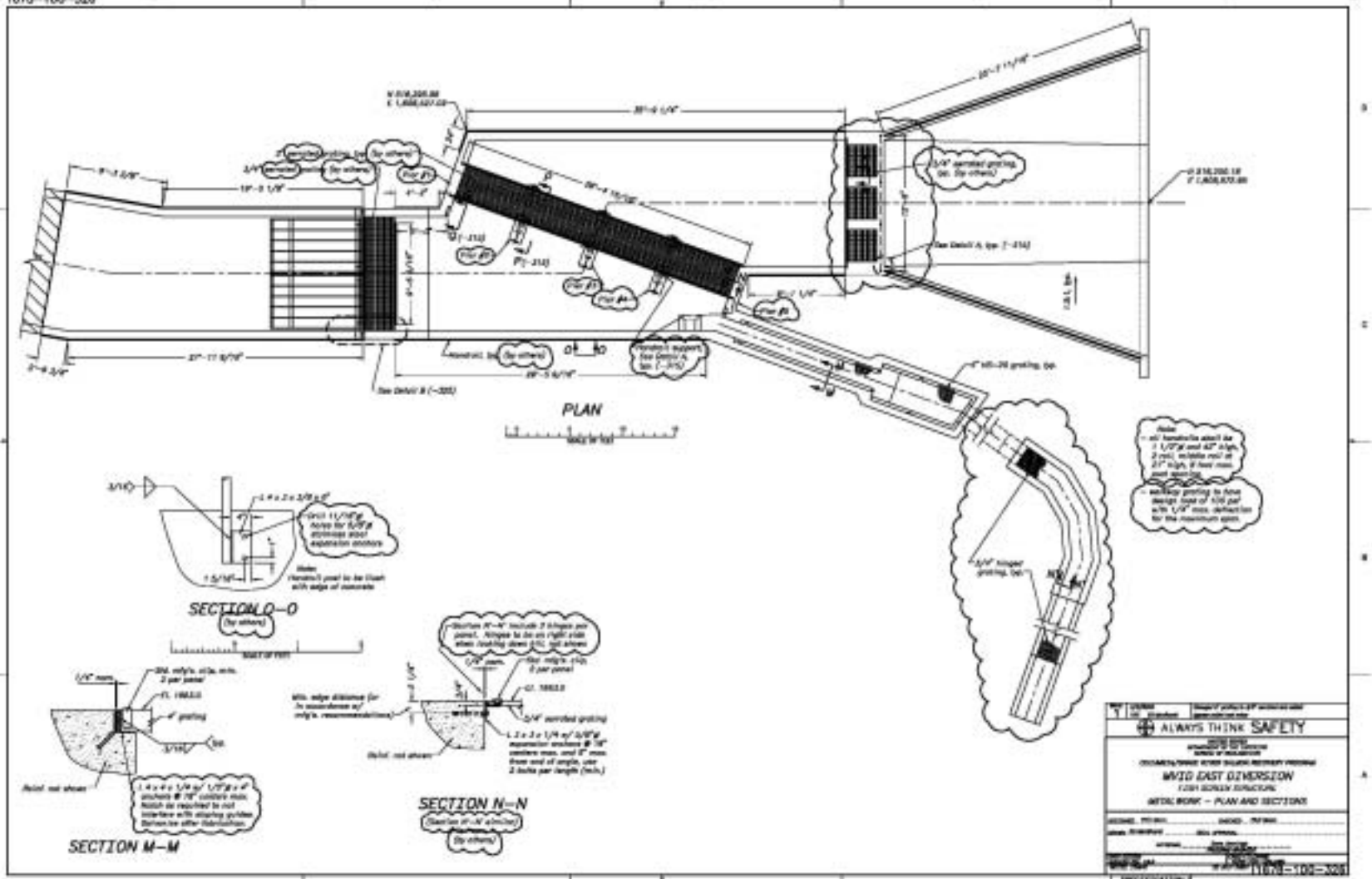
CONCRETE SECTIONS

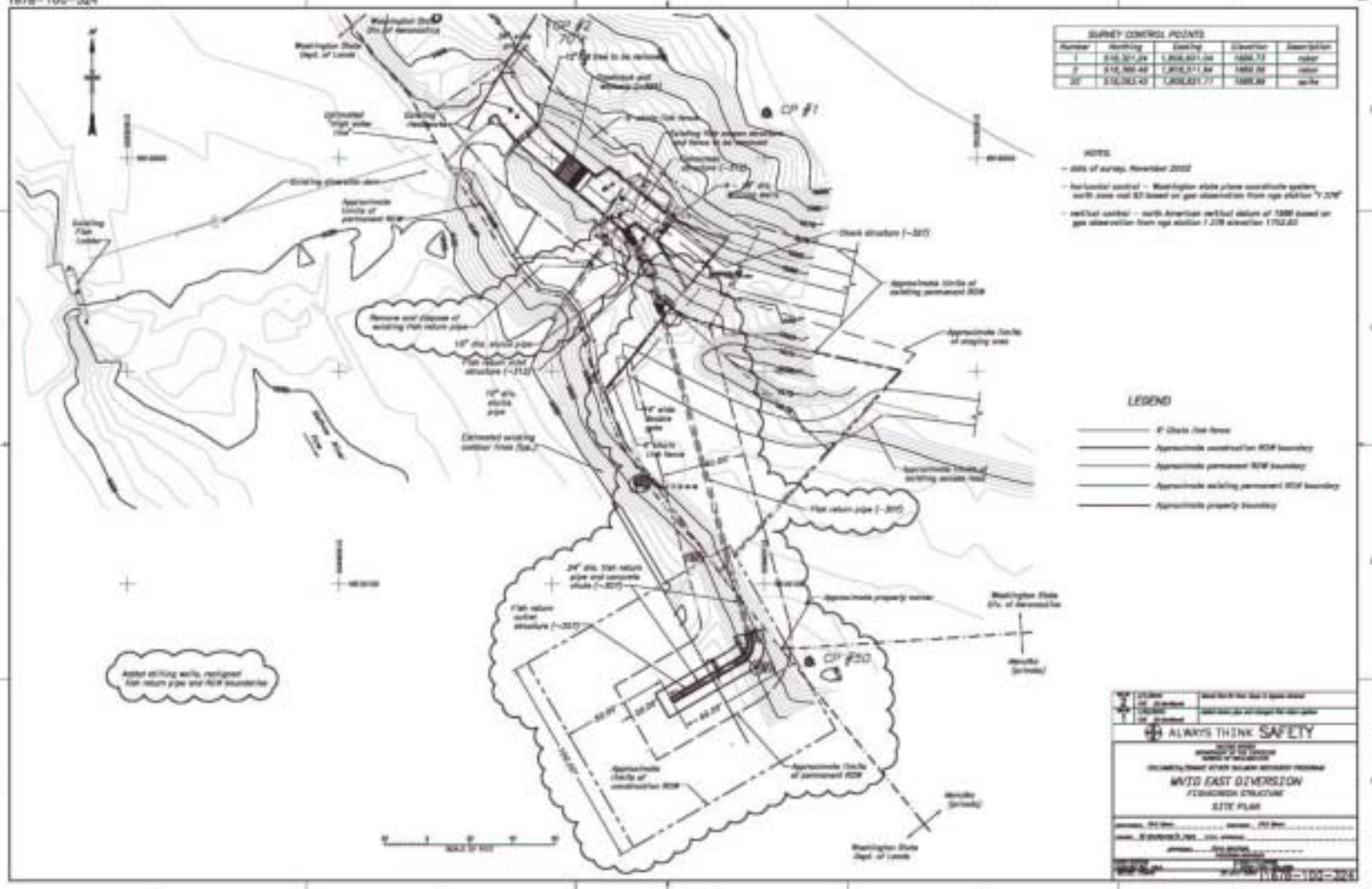
1678-100-308

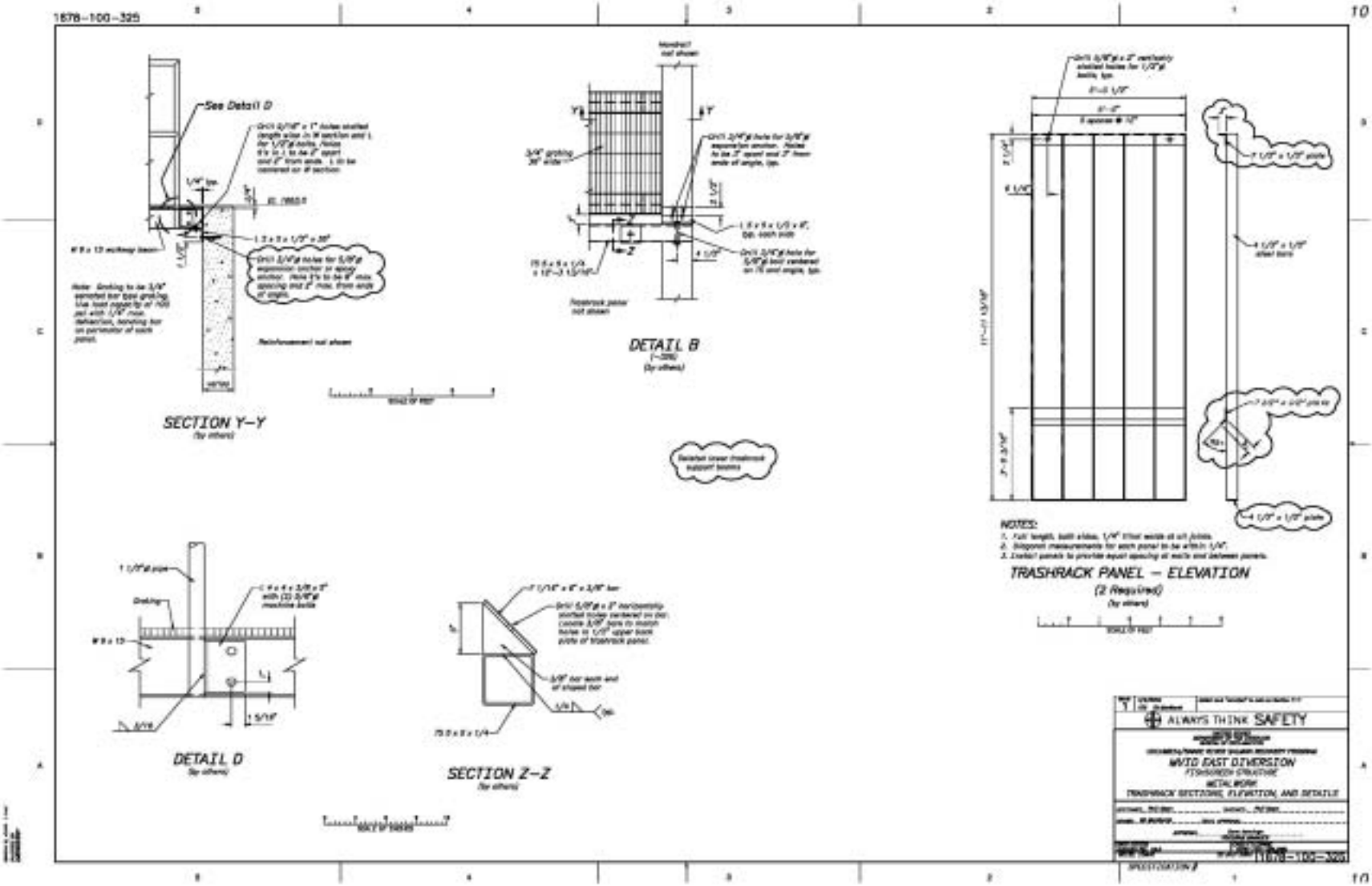
1678-100-307


SITE PLAN
SECTION FF-FF
AIR VENT DETAIL
FISH RETURN OUTLET STRUCTURE PLAN
SECTION K-K
ALWAYS THINK SAFETY
MATO EAST DIVERSION
FISH RETURN PIPE
PLAN, PROFILE, AND SECTIONS
1678-100-307

1678-100-328


PLAN
SECTION O-O
SECTION M-M
SECTION N-N
ALWAYS THINK SAFETY
MVID EAST DIVERSION
METAL WORK - PLAN AND SECTIONS


1678-100-324
SURVEY CONTROL POINTS
NOTES
LEGEND
CP #1
CP #50
ALWAYS THINK SAFETY
MVID EAST DIVERSION
FISHBOREN STRUCTURE
SITE PLAN
1678-100-324


1878-100-325
See Detail D
SECTION Y-Y
(by others)
DETAIL B
(by others)
Trashrack panel not shown
Deleted lower trashrack support beams
NOTES:
TRASHRACK PANEL - ELEVATION
(2 Required)
(by others)
DETAIL D
(by others)
SECTION Z-Z
(by others)
ALWAYS THINK SAFETY
WVID EAST DIVERSION
FISHSCREEN STRUCTURE
METALWORK
TRASHRACK SECTIONS, ELEVATION, AND DETAILS
1878-100-325

1678-100-330

13

Panel No. : MVID PPM	Section :	BUS: 240/120 Volts	☒ Main Ckt. Breaker 125 AMP
Location : MVID – East	Serving : Fishscreen	1 PH 3 WIRE 200 AMP	☐ Main Lugs Only
Fully Rated SCI 10,000 RMS SYS AMPS	☐ Feed Through Lugs ☐ Sub Feed Lugs	☐ Isolated Ground Bus	☐ Flush Mount ☐ Top Feed ☒ Surface Mount ☒ Bottom Feed

LOAD TYPE	CIRCUIT DESCRIPTION	CONN VA	C.B. AMP	C.B. POLE	C.B. CKT	PH	C.B. CKT	C.B. POLE	C.B. AMP	CONN VA	CIRCUIT DESCRIPTION	LOAD TYPE
M	SCREEN MOTOR	741	20	2	1	N/A	2	2	20	741	SCREEN MOTOR	M
M	—— " ——	741	20	2	3	N/A	4	2	20	741	—— " ——	M
M	SCREEN MOTOR	741	20	2	5	N/A	6	2	20	741	SCREEN MOTOR	M
M	—— " ——	741	20	2	7	N/A	8	2	20	741	—— " ——	M
R	GFCI RECEPTACLE	1800	20	1	9	N/A	10	1	20	1920	SPARE	
	SPARE	1920	20	1	11	N/A	12	1	20	1920	SPARE	
	SPARE	1920	20	1	13	N/A	14	1	20	1920	SPARE	
	Space				15	N/A	16				Space	
	Space				17	N/A	18				Space	
	Space				19	N/A	20				Space	
	Space				21	N/A	22				Space	
	Space				23	N/A	24				Space	
	Space				25	N/A	26				Space	
	Space				27	N/A	28				Space	
	Space				29	N/A	30				Space	
	Space				31	N/A	32				Space	
	Space				33	N/A	34				Space	
	Space				35	N/A	36				Space	
	Space				37	N/A	38				Space	
	Space				39	N/A	40				Space	
	Space				41	N/A	42				Space	

Total Receptacle (R) Load @ 180VA/each=X100% for first 10KVA & 50% for remainder: kVA

Total Non-coincidental (E) Load: kVA

Total Lighting (L) Load @ 125% : kVA

Total Motor (M) Load : kVA

Total Heating (H) Load : kVA

Total Non-continuous (N) Load : kVA

Largest Motor (25% added to demand load): HP kVA

TOTAL CONNECTED LOAD : kVA	CONNECTED AMP Total Amp / PH :	A	B	C	TOTAL DEMAND LOAD AMP kVA

ALWAYS THINK SAFETY

MVID – EAST FISHSCREEN

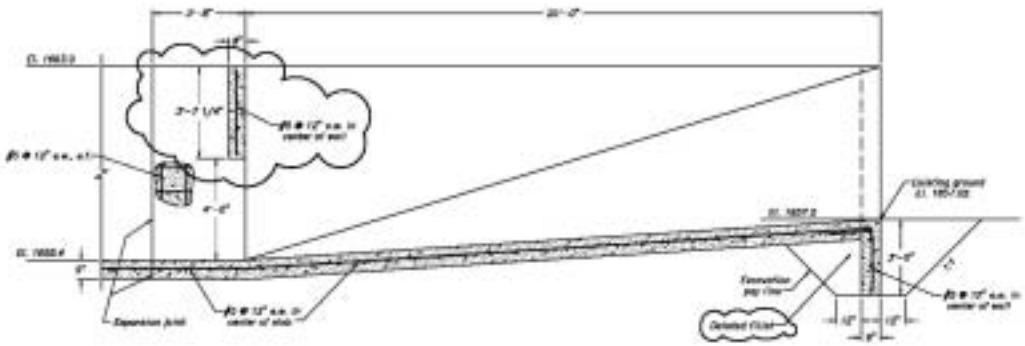
ELECTRICAL INSTALLATION

PANEL SCHEDULE

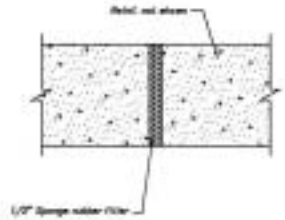
1678-100-330

13

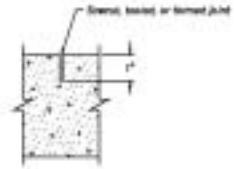
1678-100-327



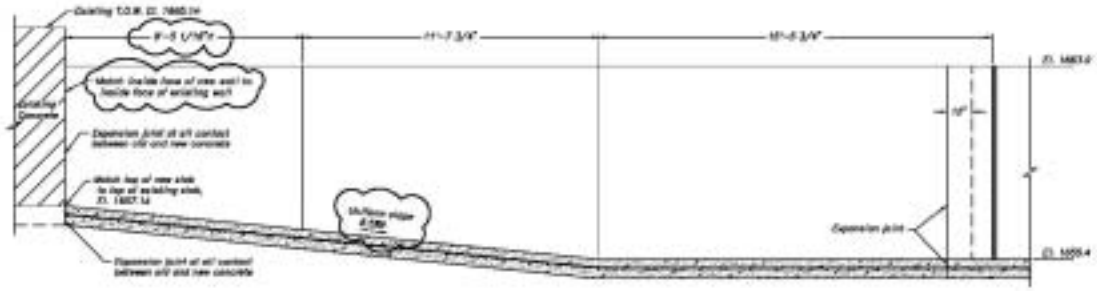
SECTION D-D



TYPICAL EXPANSION JOINT



TYPICAL CONTRACTION JOINT



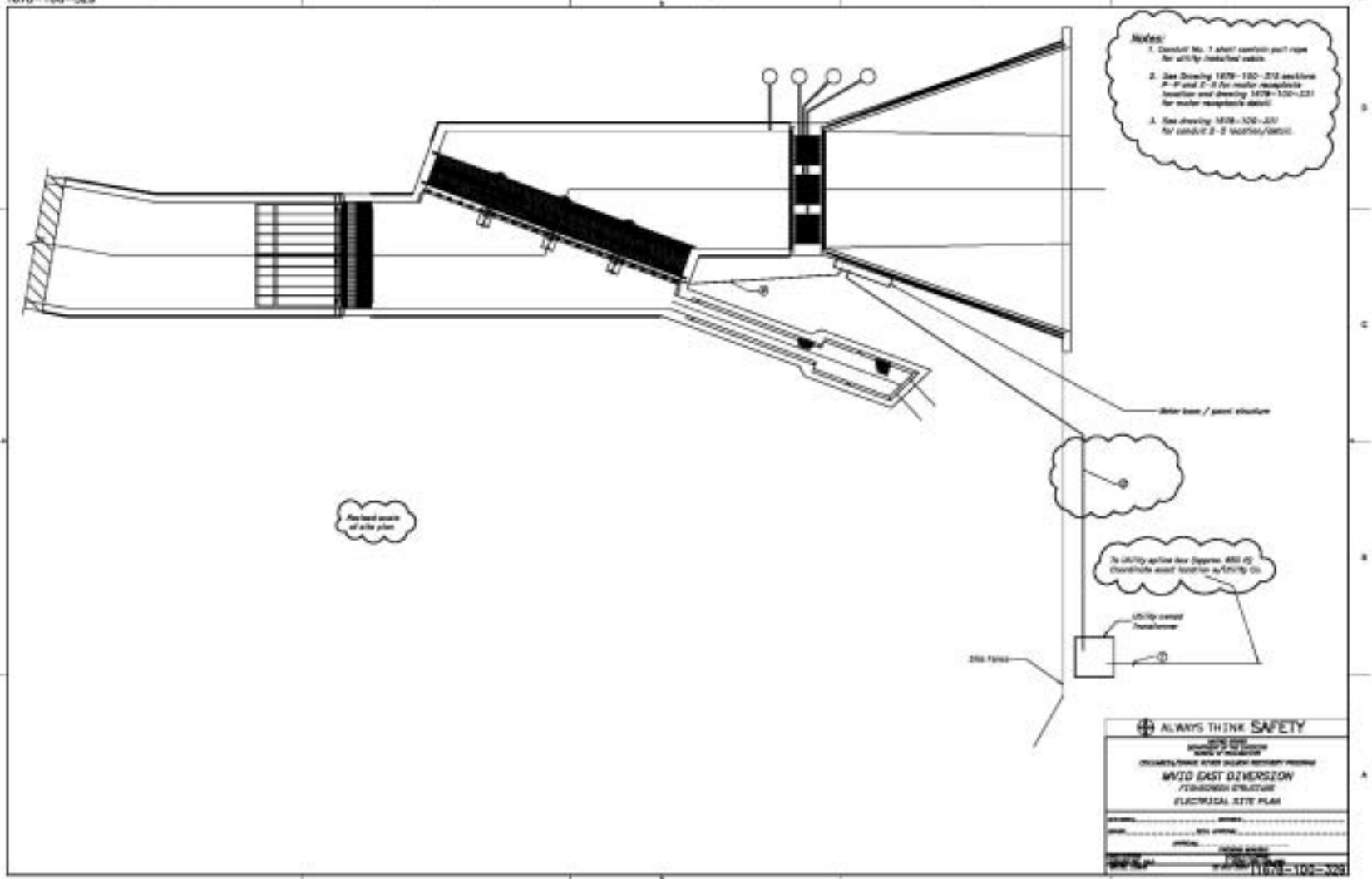
SECTION G-G

NOTE:
Transverse construction or contraction joint
@12" max. spacing in walls and floors
between expansion joints, in section C-C only

ALWAYS THINK SAFETY

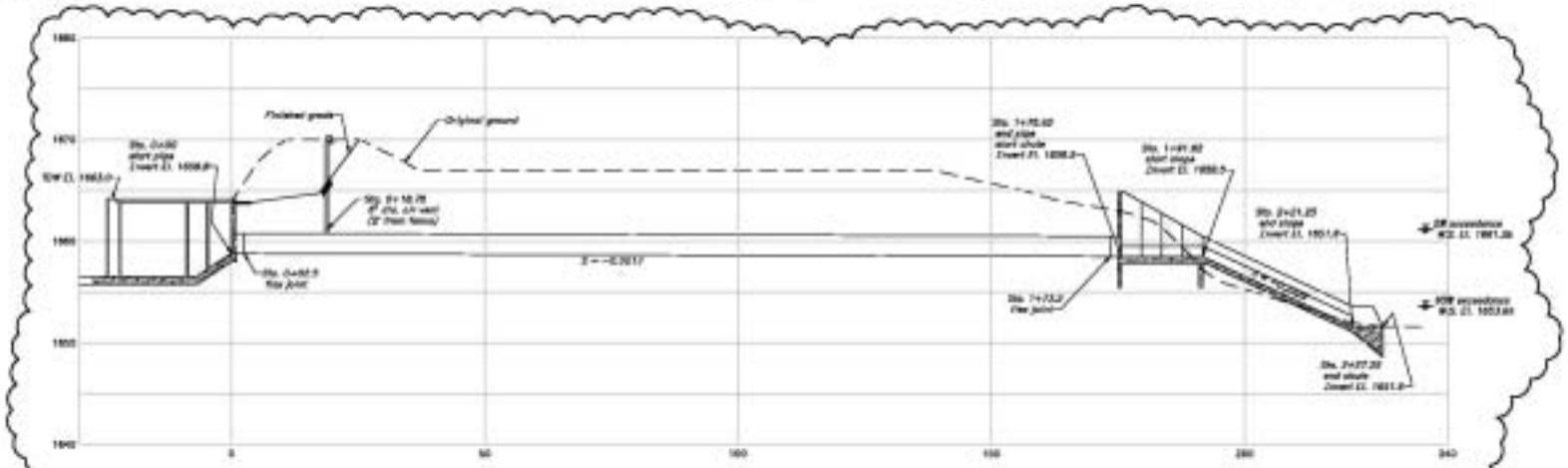
WVID EAST DIVERSION
FISHSCREEN STRUCTURE
CONCRETE SECTIONS AND DETAILS

1678-100-327

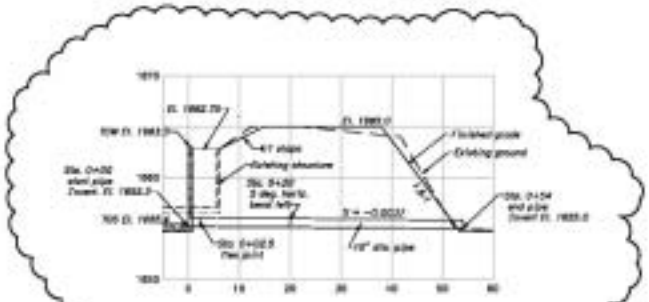

1678-100-329
12
Notes:
ALWAYS THINK SAFETY
WVID EAST DIVERSION
FISHSCREEN STRUCTURE
ELECTRICAL SITE PLAN
1678-100-329

1676-100-344

7A



FISH RETURN PIPE – PROFILE



10" DIA. SLUICE PIPE – PROFILE

ALWAYS THINK SAFETY

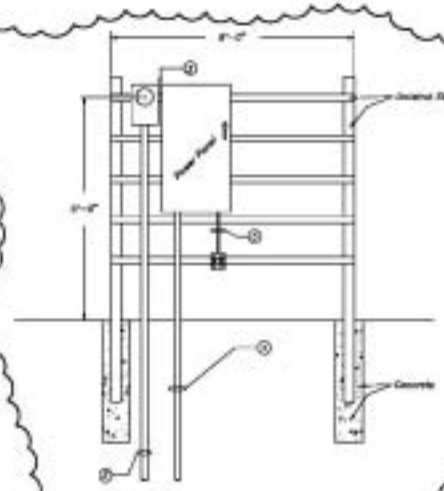
COLUMBIA/SNAKE RIVER SALMON RECOVERY PROGRAM

MVID EAST DIVERSION

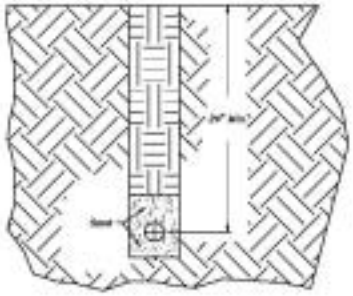
FISH RETURN PIPE AND SLUICE PIPE PROFILES

1676-100-344

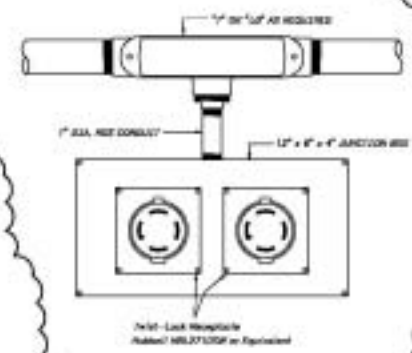
7A



METER BASE / PANEL DETAIL



CONDUIT/ TRENCH DETAIL



MOTOR RECEPTACLE DETAIL

CONDUIT & CABLE SCHEDULE

Conduit No.	Cable	Conduit Size	From	To	Remarks
1	(BY OTHERS)	2"	UTILITY SPLICE	UTILITY KFMR	UTILITY INSTALLED CABLE
2	3-1C No. 3/0	2"	UTILITY KFMR	METER BASE	BURRIED/SURFACE MOUNT
3	4-1C No. 3/0 No. 4 GRND	2"	METER BASE	PANEL	NIPPLE
4	12-1C No. 10	1-1/2"	PANEL	MOTOR RECEPTACLES	EMBEDDED/BURRIED/SURFACE
5	3-1C No. 12	3/4"	PANEL	RECEPTACLES	SURFACE

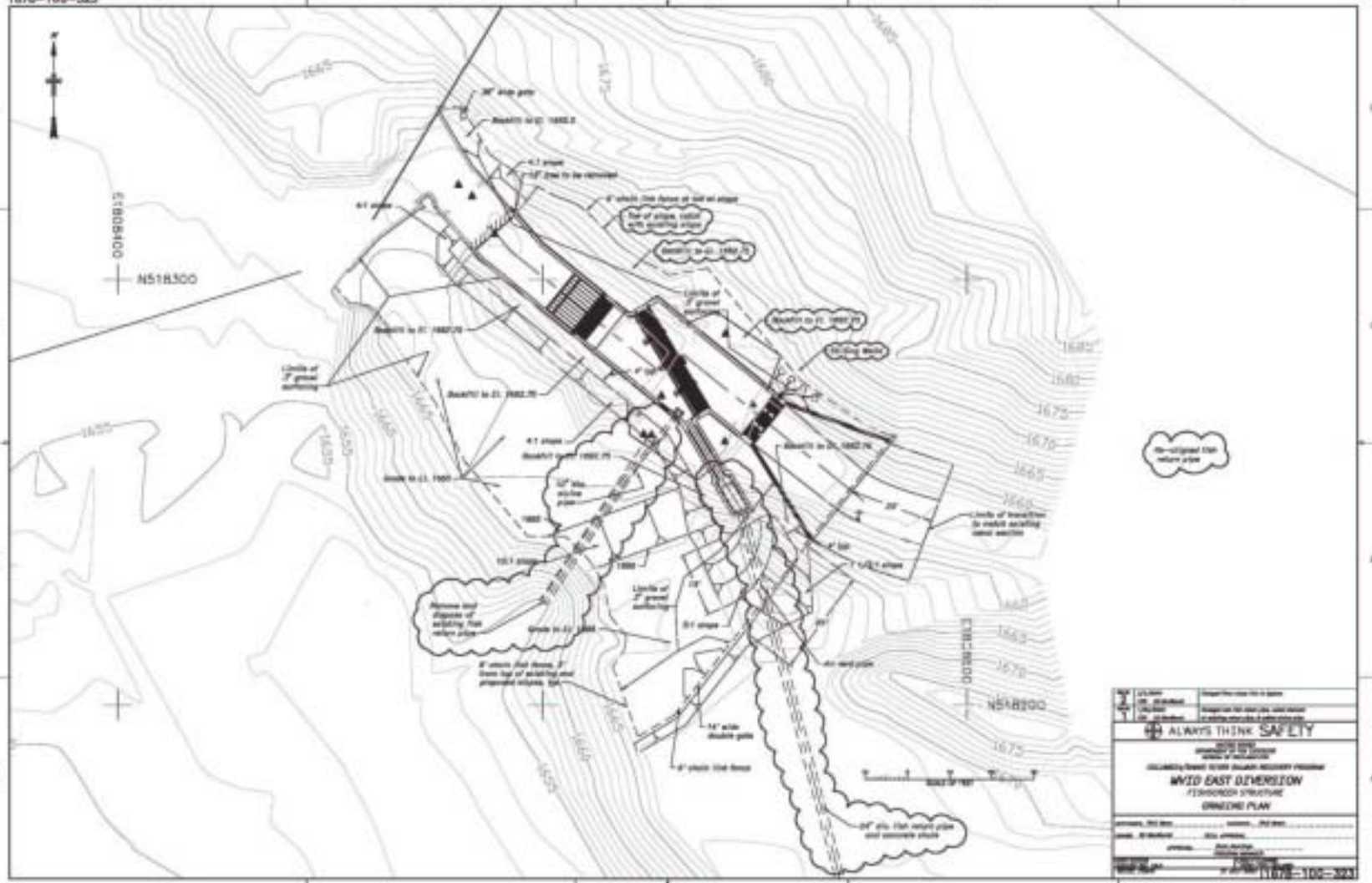
Notes:
1. Conduit No. 1 Shown on Drawing 1878-100-328.
2. Field Verify Panel Mounting Location.
3. Provide Motor Plug Hubbell HBL27115W or Equivalent to Match Receptacle.

ALWAYS THINK SAFETY

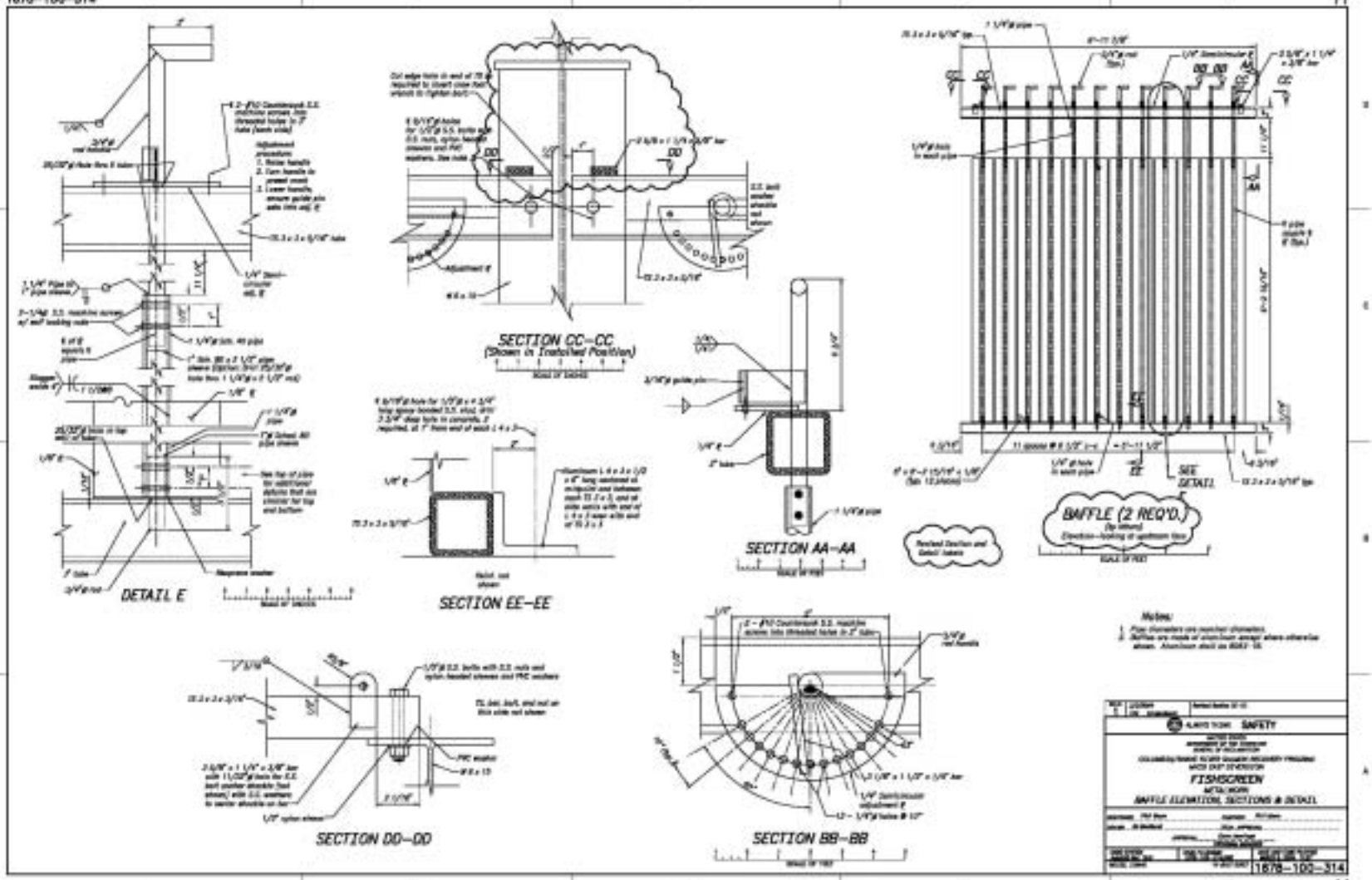
COLUMBIA/SNAKE RIVER SALMON RECOVERY PROGRAM

MVID – EAST FISHSCREEN
ELECTRICAL INSTALLATION
CONDUIT SCHEDULE & DETAILS

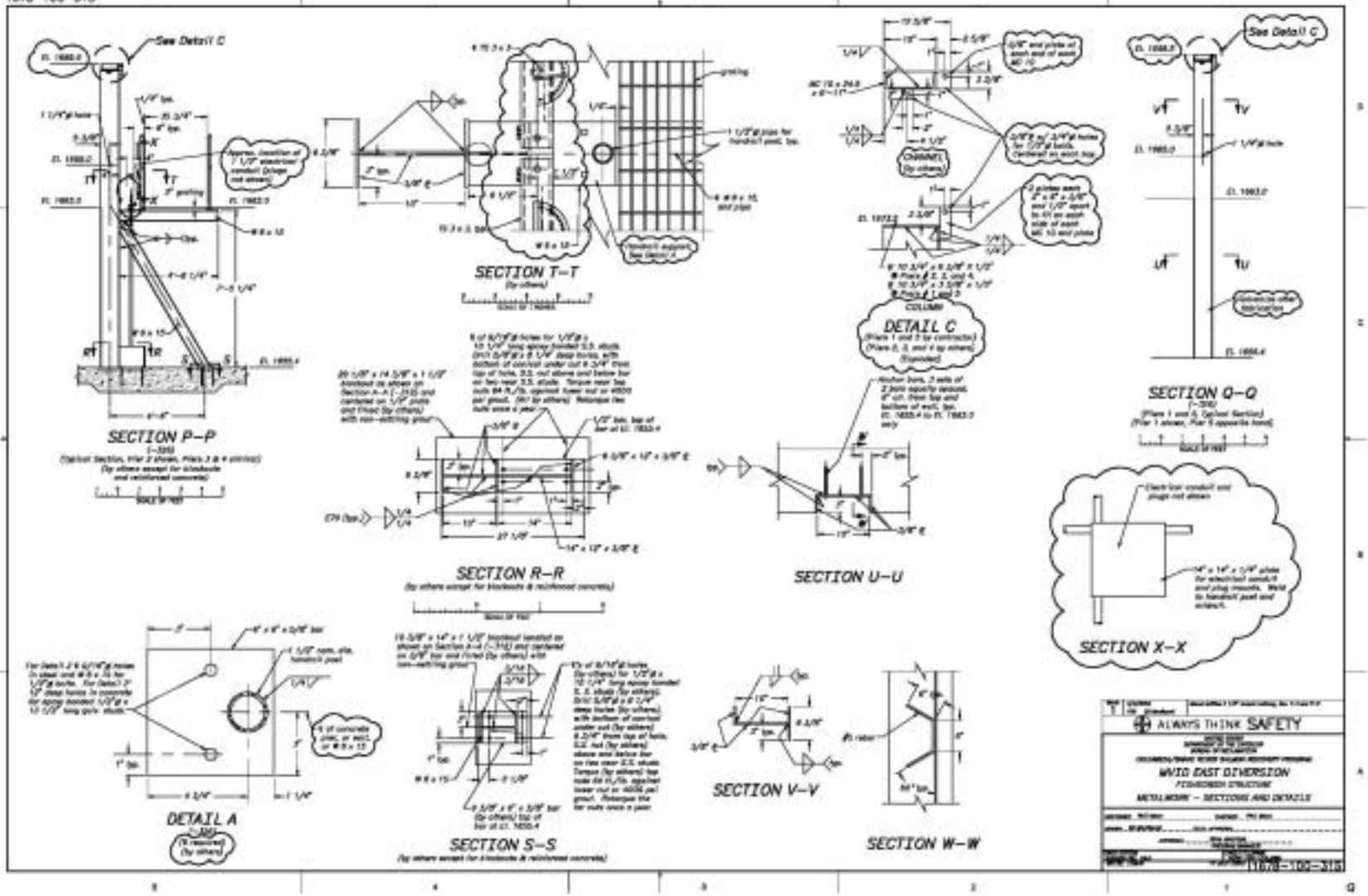
1878-100-331


1878-100-323
N518300
E1808400
ALWAYS THINK SAFETY
MVID EAST DIVERSION
FISHBORDER STRUCTURE
GRADING PLAN
1878-100-323

1678-100-314


DETAIL E
SECTION CC-CC
(Shown in Installed Position)
SECTION AA-AA
SECTION EE-EE
SECTION DD-DD
SECTION BB-BB
BAFFLE (2 REQ'D.)
SEE DETAIL
Revised Section and Detail Labels
Notes:
SAFETY
FISHSCREEN
METALWORK
BAFFLE ELEVATION, SECTIONS & DETAIL
1678-100-314

1678-100-315


SECTION P-P
SECTION T-T
DETAIL C
SECTION Q-Q
SECTION R-R
SECTION U-U
SECTION X-X
DETAIL A
SECTION S-S
SECTION V-V
SECTION W-W
ALWAYS THINK SAFETY
WVID EAST DIVERSION
METALWORK - SECTIONS AND DETAILS
1678-100-315