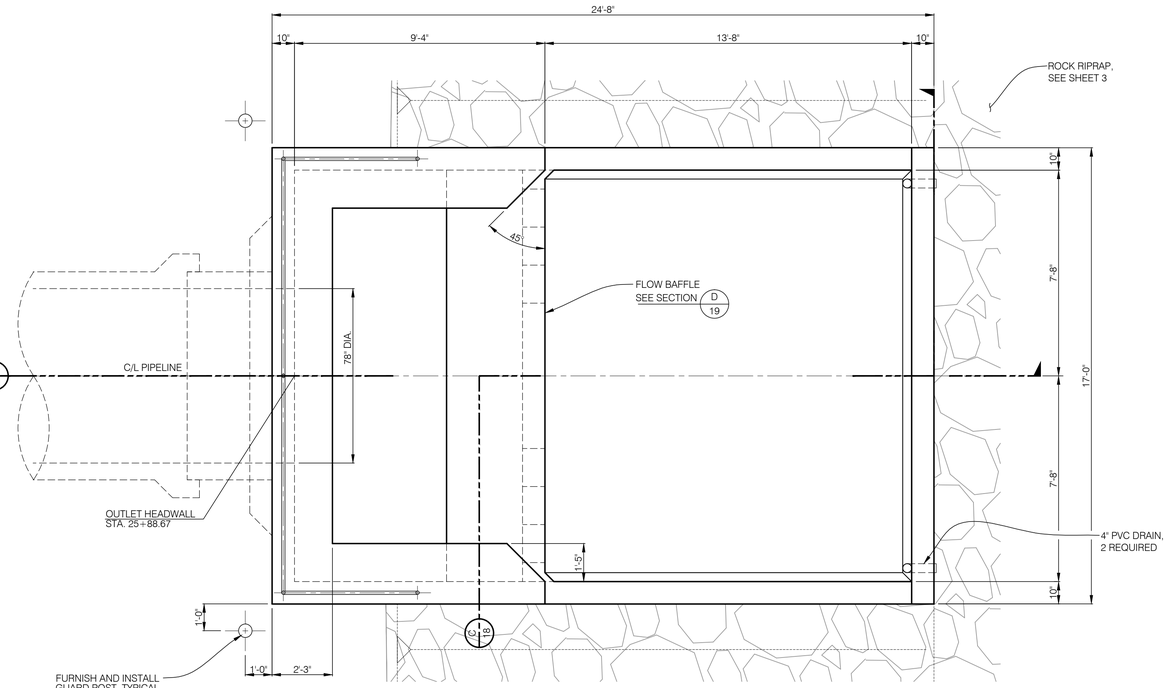
FINAL ENVIRONMENTAL ASSESSMENT (EA/IS-09-080)

BUENA VISTA WASTER STORAGE DISTRICT
BV8 STATE WATER PROJECT TURNOUT

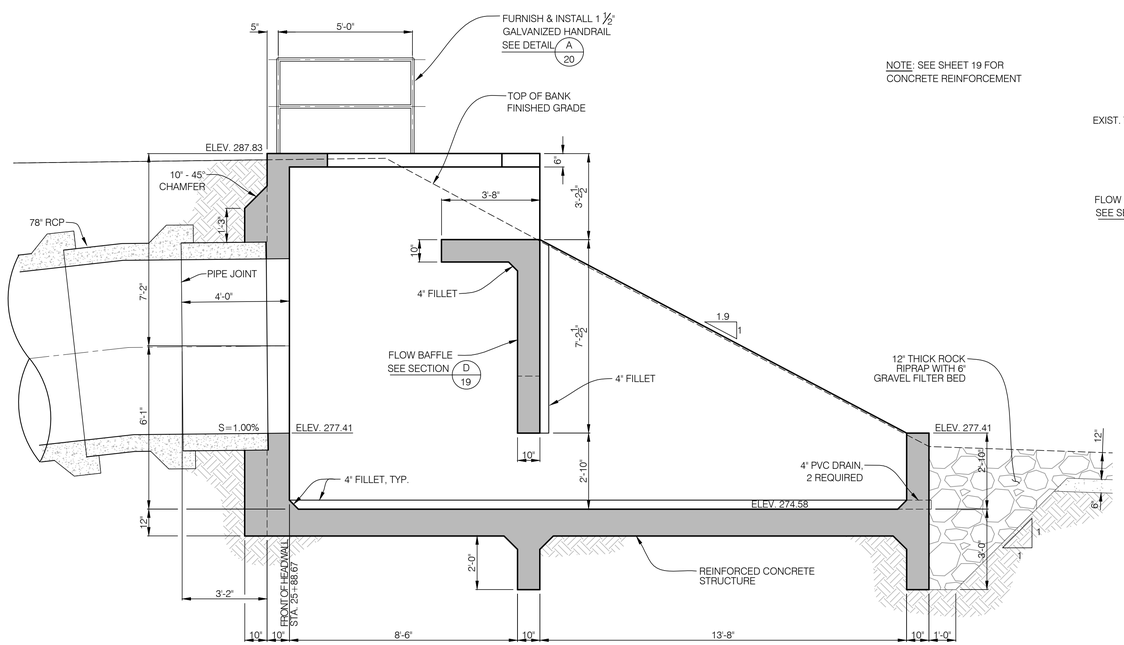
Appendix A
Final Project Designs (Pages 18-25)

December 2011



PLAN - PIPELINE OUTLET (A 18)

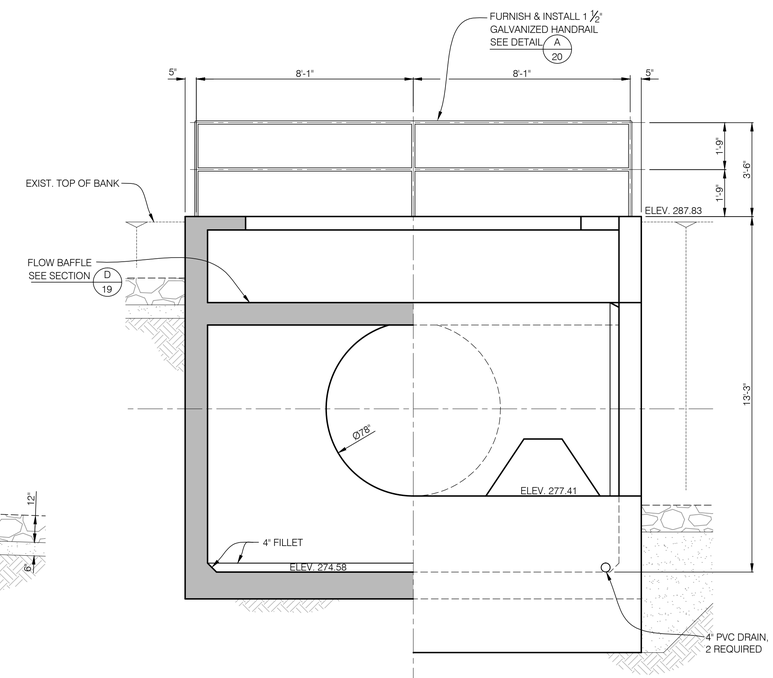
SCALE: 3/8"=1'-0"



NOTE: SEE SHEET 19 FOR CONCRETE REINFORCEMENT

SECTION - PIPELINE OUTLET (B 18)

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



SECTION (C 18)

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

Meyer Civil Engineering, Inc.
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REGISTERED PROFESSIONAL ENGINEER RICHARD D. MEYER No. 28104 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

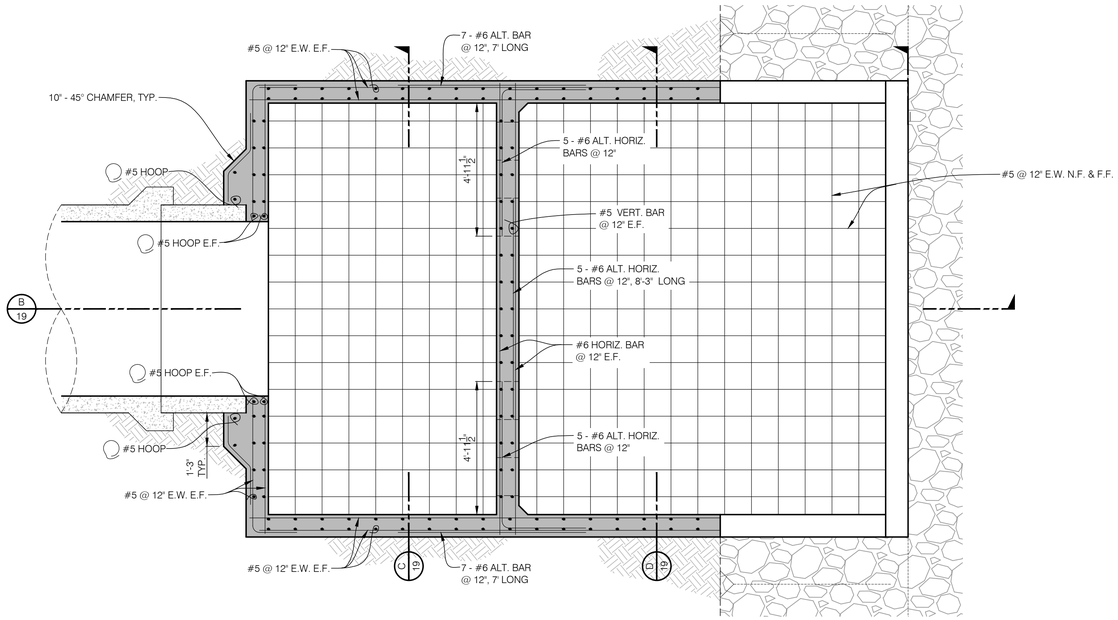
Richard D. Meyer 10-7-11
Richard D. Meyer RCE 28104 — Date

Rev. No.	Date	Revision Description	Approved By

FM: RDM
Drawn By: RDM/SCB
AutoCAD Ver. 2007
File No: BVW09001TO
Date: BVW-09-001
10/07/11

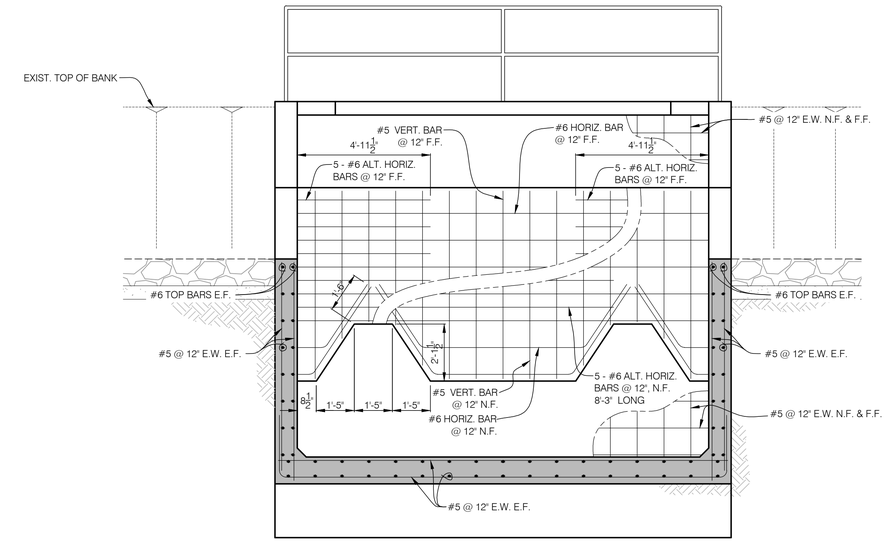
BUENA VISTA WATER STORAGE DISTRICT
BUENA VISTA TURNOUT #8
WESTSIDE CANAL OUTLET STRUCTURE

SHEET NO. 18 OF 25



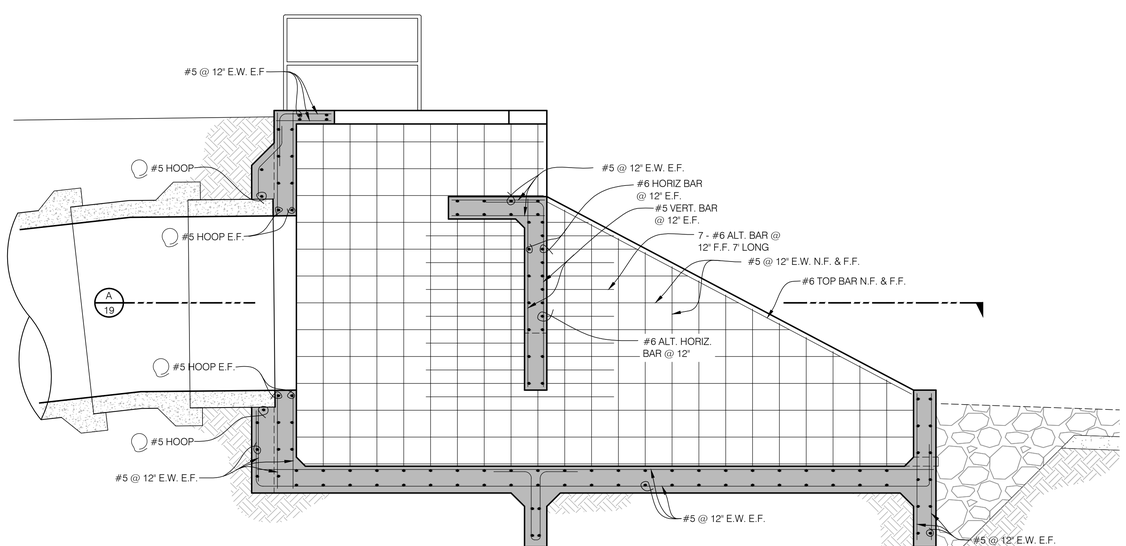
SECTION - PIPELINE OUTLET (A/19)

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



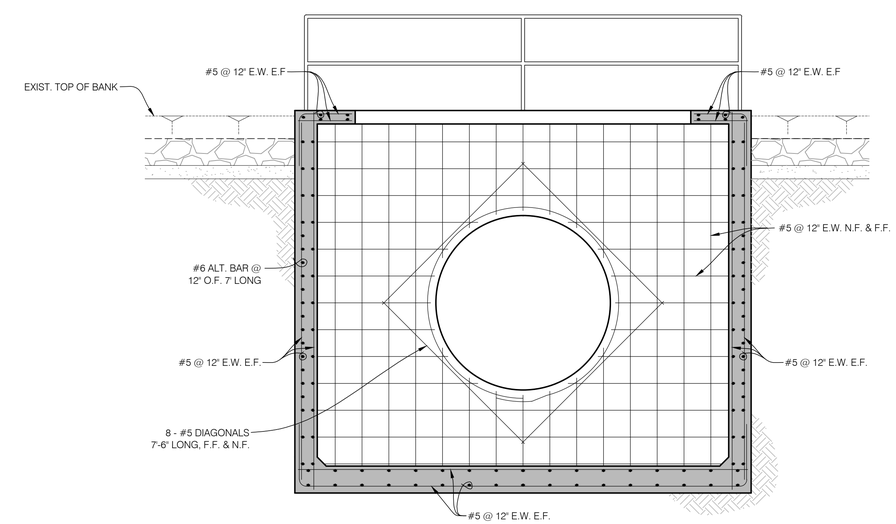
SECTION - BAFFLE WALL (D/19)

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



SECTION - PIPELINE OUTLET (B/19)

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



SECTION - HEADWALL (C/19)

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

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Drawn By: RDM/SCB
AutoCAD File: BWW09001TO
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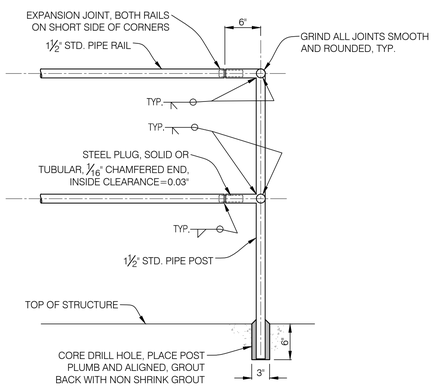
Date: 10/07/11

BUENA VISTA WATER STORAGE DISTRICT
BUENA VISTA TURNOUT #8
OUTLET STRUCTURE REINFORCING DETAILS

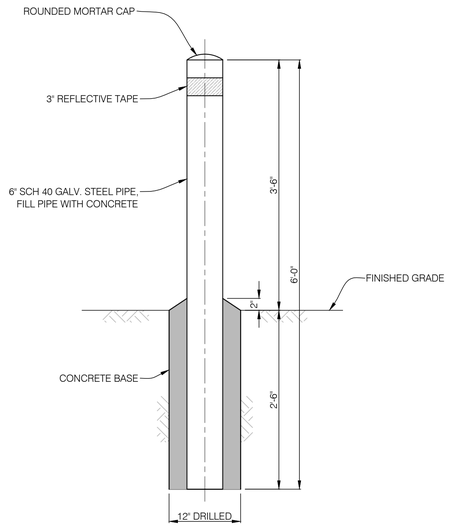
SHEET NO. 19 OF 25



DETAIL - HAND RAIL (A/20)

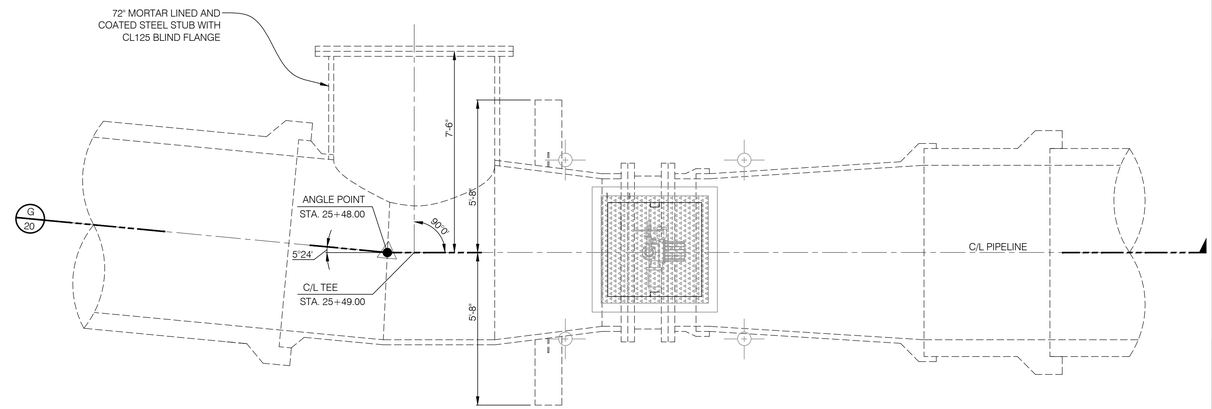
SCALE: 1"=1'-0"

ALL HANDRAILS TO BE HOT-DIP GALVANIZED AFTER FABRICATION



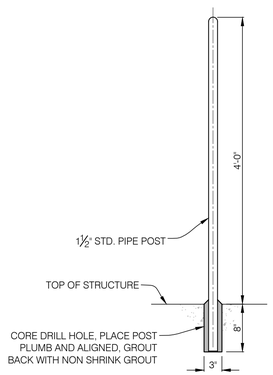
DETAIL - METAL GUARD POST (B/20)

SCALE: 1"=1'-0"



PLAN - BID ALTERNATE NO. 2 (F/20)

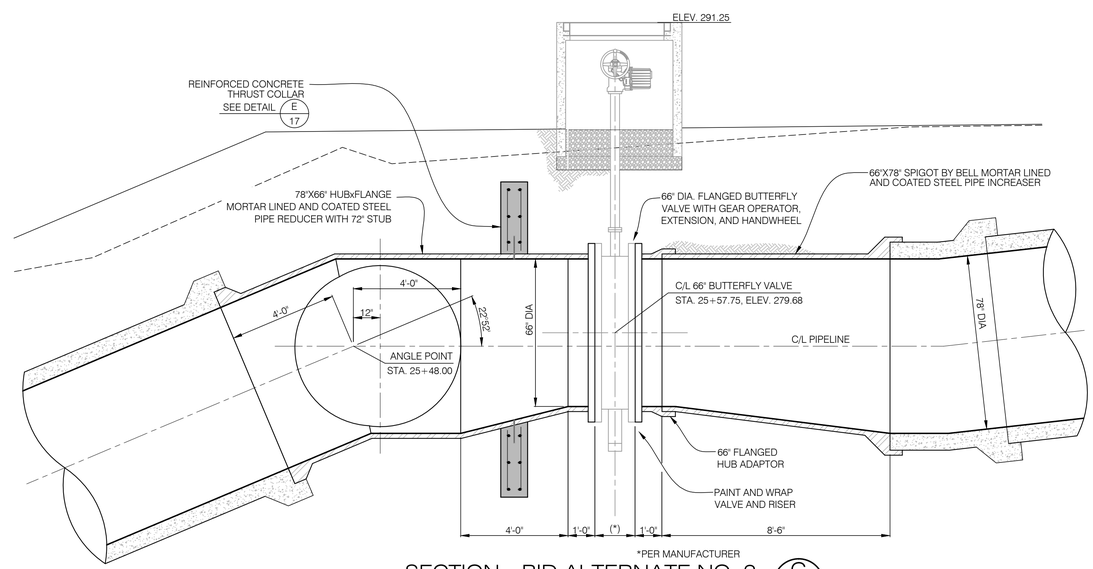
SCALE: 3/8"=1'-0"



DETAIL - GRAB BAR (C/20)

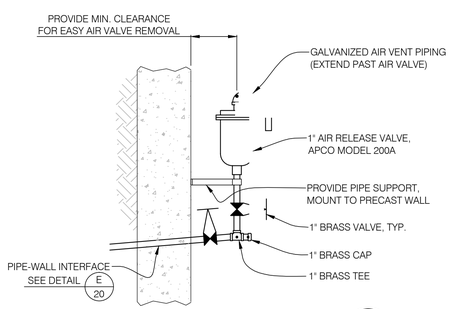
SCALE: 1"=1'-0"

ALL GRAB BARS TO BE HOT-DIP GALVANIZED AFTER FABRICATION



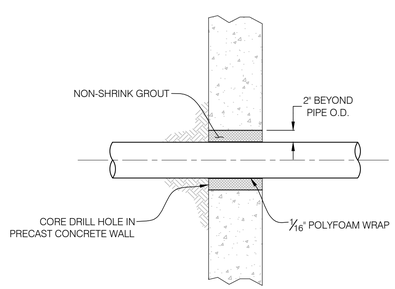
SECTION - BID ALTERNATE NO. 2 (G/20)

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



DETAIL - VAULT AIR VALVE (D/20)

SCALE: 1"=1'-0"



DETAIL - PIPE ENTRY (E/20)

NOT TO SCALE

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Richard D. Meyer 10-7-11 Date

Richard D. Meyer RCE 28104

Rev. No.	Date	Revision Description	Approved By

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Drawn By: RDM/GCB
AutoCAD Ver: BVWS0001TO
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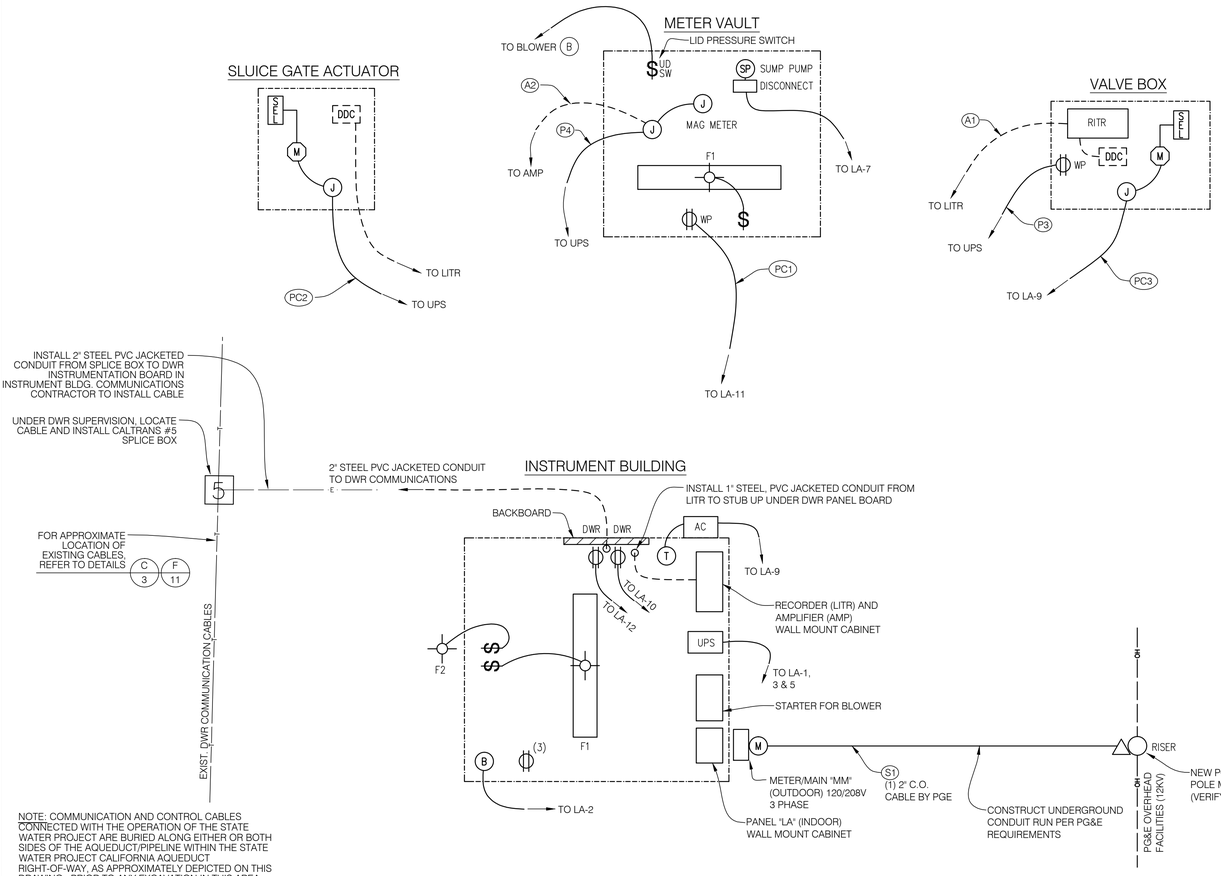
Date: 10/07/11

BUENA VISTA WATER STORAGE DISTRICT
BUENA VISTA TURNOUT #8
HANDRAIL, GUARD POST, VAULT AIR VALVE PIPE ENTRY & BID ALTERNATE NO. 2 DETAILS

SHEET NO. 20 OF 25



NOTE: COMMUNICATION AND CONTROL CABLES CONNECTED WITH THE OPERATION OF THE STATE WATER PROJECT ARE BURIED ALONG EITHER OR BOTH SIDES OF THE AQUEDUCT/PIPELINE WITHIN THE STATE WATER PROJECT CALIFORNIA AQUEDUCT RIGHT-OF-WAY, AS APPROXIMATELY DEPICTED ON THIS DRAWING. PRIOR TO ANY EXCAVATION IN THIS AREA, THE CABLES SHALL BE LOCATED AND EXPOSED BY POTHOLING WITH HAND TOOLS IN THE PRESENCE OF A DEPARTMENT OF WATER RESOURCES FIELD DIVISION REPRESENTATIVE. CALL SAN JOAQUIN FIELD DIVISION AT (661) 858-5513 AT LEAST SEVEN DAYS IN ADVANCE FOR AN APPOINTMENT. ANY EXCAVATION WITHIN THREE FEET OF THE CABLE(S) SHALL BE DONE USING HAND HELD TOOLS ONLY.

ELECTRICAL PLAN

A / 21

FEEDER SCHEDULE

ITEM	FROM	TO	CONDUIT	CONDUCTORS	DISTANCE (FT)
S1	PG&E RISER POLE	METER/MAIN "MM"	(1) 2"C.O.	BY PG&E	50
P3	PANEL LA	VALVE BOX REC.	(1) 1½"C.O.	2#10AWG 1#10AWG(G)	1130
P4	PANEL LA	MAG METER IN VAULT	(1) 1" *	2#12AWG 1#12 (G)	30
PC1	PANEL LA	METER VAULT, SW, REC, LT, PMP	(1) 1" *	6#10 2#12 2#10(G)	30
PC2	PANEL LA (UPS)	SLUICE GATE ACTUATOR 1	(1) 1" *	3#10 PWR 1#10 GND 4#12 CONT	160
PC3	PANEL LA	BUTTERFLY VALVE ACTUATOR 2	(1) 1½" PVC	3#8AWG 1#10 (G), 4#12 CONT.	1130
A1	LITR (INSTRUMENT BUILDING)	RITR (VALVE BOX)	(1) 1 ½" PVC	(16) PR #14 SHIELDED	1130
A2	MAG METER (METER VAULT)	AMPLIFIER (INSTRUMENT BUILDING)	(1) 1" *	(8) PR #18 SHIELDED	30
A3	LITR	DDC AT ACTUATOR 1	(1) 1" *	(16) PR #18 SHIELDED	160

* STEEL WITH PVC JACKET

LIGHT FIXTURE SCHEDULE

VOLTAGE (u.o.n.): 120

1.) FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY CODES AND ORDINANCES.

2.) FIXTURES SHALL INCLUDE ALL ACCESSORIES NECESSARY FOR INSTALLATION ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND AS REQUIRED BY CODES AND LOCAL ORDINANCES.

3.) PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, THE CONTRACTOR SHALL COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING CAVITY DEPTHS.

4.) ALL LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE FIXTURE SCHEDULE AND SPECIFICATIONS (SEE BELOW). ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP AND BALLAST(S).

5.) CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE.

6.) PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED CEILINGS.

7.) LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY HARDWARE AS REQUIRED BY THE SPECIFICATIONS, DRAWING, AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION.

8.) ALL FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S) THAT HAVE UL AND CBM LABELS. ALL BALLASTS MUST CONFORM TO TITLE 24 REQUIREMENTS FOR PERFORMANCE. PROVIDE MULTIPLE BALLASTS FOR DUAL-LEVEL SWITCHING AND WIRING (I.E. TANDEM) AS INDICATED ON THE PLANS.

9.) UPON INITIAL ENERGIZING OF ALL NEW FLUORESCENT LAMPS, A CONTINUOUS PERIOD OF 30 HOURS SHALL OCCUR PRIOR TO DE-ENERGIZING OF LAMPS, FOR MANUFACTURER REQUIRED LAMP BURN-IN AND MAXIMUM LAMP LIFE.

10.) ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC TYPE. PROVIDE END OF LIFE (EOL) SHUT-DOWN PROTECTION FOR COMPACT FLUORESCENT LAMPS.

11.) ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS ESPECIALLY DIMMED SYSTEMS. FIXTURES, LAMPS, BALLAST(S), AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS MUST BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.

12.) PROVIDE CLEARANCES FROM COMBUSTIBLES A MINIMUM OF ½" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR RECESSED LIGHTING FIXTURES WHICH ARE NON-IC RATED.

13.) PROVIDE A MINIMUM OF TWO (2) #12 SUPPORT WIRES ATTACHED TO BUILDING FRAME IN ADDITION TO T-BAR CLIPS FOR FLUORESCENT FIXTURES RECESSED IN SUSPENDED T-BAR CEILING.

14.) ALL LIGHTING POLES 15 FEET AND LONGER SHALL BE COMPLETE WITH INTEGRAL PRE-INSTALLED FACTORY ENGINEERED DAMPING ASSEMBLY.

TYPE	INPUT VOLTS-AMPS	DESCRIPTION AND MANUFACTURER	REMARKS
F1	70	FLUORESCENT FIXTURE, 2 LAMP, 1'x4', SURFACE ENCLOSED VOLTAGE: 120 LAMP: (2) F32WT8 MANUFACTURER: LITHONIA - VSL SERIES	ROUGH SERVICE TYPE
F2	50	FLUORESCENT MICRO WALL PAK POLYCARBONATE REFRACTOR VOLTAGE: 120 LAMP: (1) 42 TRT COMPACT FLUORESCENT MANUFACTURER: LITHONIA TWL SERIES	ENTRANCE LIGHT

LEGEND

- OH — OVERHEAD ELECTRICAL
- LINE DIAGRAM ELECTRICAL RUN IN CONDUIT
- SINGLE LINE
- ENCLOSURE
- $ — SWITCH
- F2 — LIGHT FIXTURE
- F1 — 4' DOUBLE FLUORESCENT LIGHT FIXTURE
- DUPLEX OUTLET
- M — PG&E METER
- M — MOTOR DRIVEN DEVICE
- T — THERMOSTAT
- B — BLOWER
- J — JUNCTION BOX
- "HOA" — HAND OFF AUTOMATIC
- "SEL" — SELECTOR SWITCH (OPEN, CLOSE, OFF)
- "LA" — LOAD CENTER PANEL
- "UPS" — BATTERY BACKUP SYSTEM
- "DWR" — DEPARTMENT OF WATER RESOURCES
- PC2 — CONDUIT - CONDUCTOR RUN PER FEEDER SCHEDULE
- DDC — DISTRIBUTION DIGITAL CONTROLLER IN ACTUATOR

REGISTERED PROFESSIONAL ENGINEER RICHARD D. MEYER No. 28104 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

Richard D. Meyer 10-7-11
Richard D. Meyer PCE 28104 — Date

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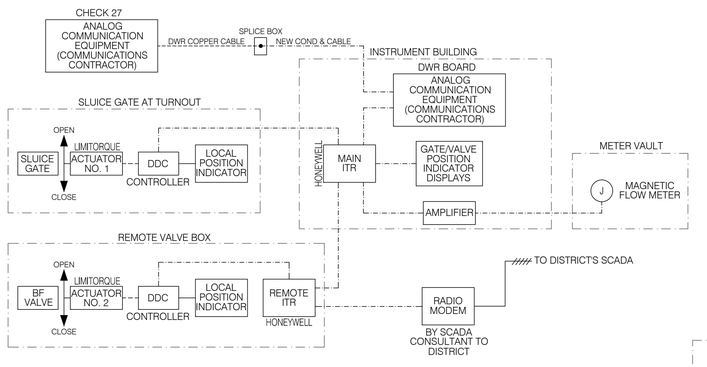
Rev. No.	Date	Revision Description	Approved By
2	9-2-11	ADDENDUM NO. 4	RDM
1	7/22/11	Addendum No. 1	RDM

PM: RDM
Drawn By: RDM/SCB
AutoCAD Rev: BW09000TO
File No: BW-09-001
Date: 10/07/11

BUENA VISTA WATER STORAGE DISTRICT
BUENA VISTA TURNOUT #8
ELECTRICAL PLAN

SHEET NO. 21 OF 25



CONTROL DIAGRAM B/22

PANEL LA

BUS AMPS 125 MFR. C-H OR EQUAL LOC. INDOOR MTG. SURFACE MAIN AMPS 100A/3P

PHASE 3 WIRES 4 VOLTS 120/208 FEEDER SEE 1-LINE AT BOTTOM AIC RATING 10K

DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	OUTLETS LTG	OUTLETS REC	OUTLETS MISC	BKR. AMP	BKR. P	WIRE AWG	BUS CONNECTION	WIRE AWG	WIRE P	BKR. AMP	BKR. MISC	OUTLETS REC	OUTLETS LTG	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	DESCRIPTION
–	3300					1	30	/	10	1 — 2	10	1	30	1			1800			BLOWER
UPS		3300							10	3 — 4	12	1	20	1				200		MAG METER
–			3300					3	10	5 — 6	–	1	20		1				–	SPARE
SUMP PUMP	900					1	20	1	10	7 — 8	10	1	20			3	300			LIGHTS
WINDOW AC		1500				1	20	1	10	9 — 10	12	1	20		1			200		DWR REC. 1
BUILDING/MV REC.			800		4		20	1	10	11 — 12	12	1	20		1				200	DWR REC. 2
B.F. VALVE ACTUATOR 2	500					1	15	/	4	13 — 14	–		20				–			SPARE
–		500							4	15 — 16	–		20					–		SPARE
–			500					3	4	17 — 18	–		20						–	SPARE
										19 — 20										
										21 — 22										
										23 — 24										
										25 — 26										
										27 — 28										
										29 — 30										
										31 — 32										
										33 — 34										
										35 — 36										
										37 — 38										
										39 — 40										
										41 — 42										
	4700	5300	4600	COLUMN TOTALS							COLUMN TOTALS						2100	400	200	

BUS LOADING

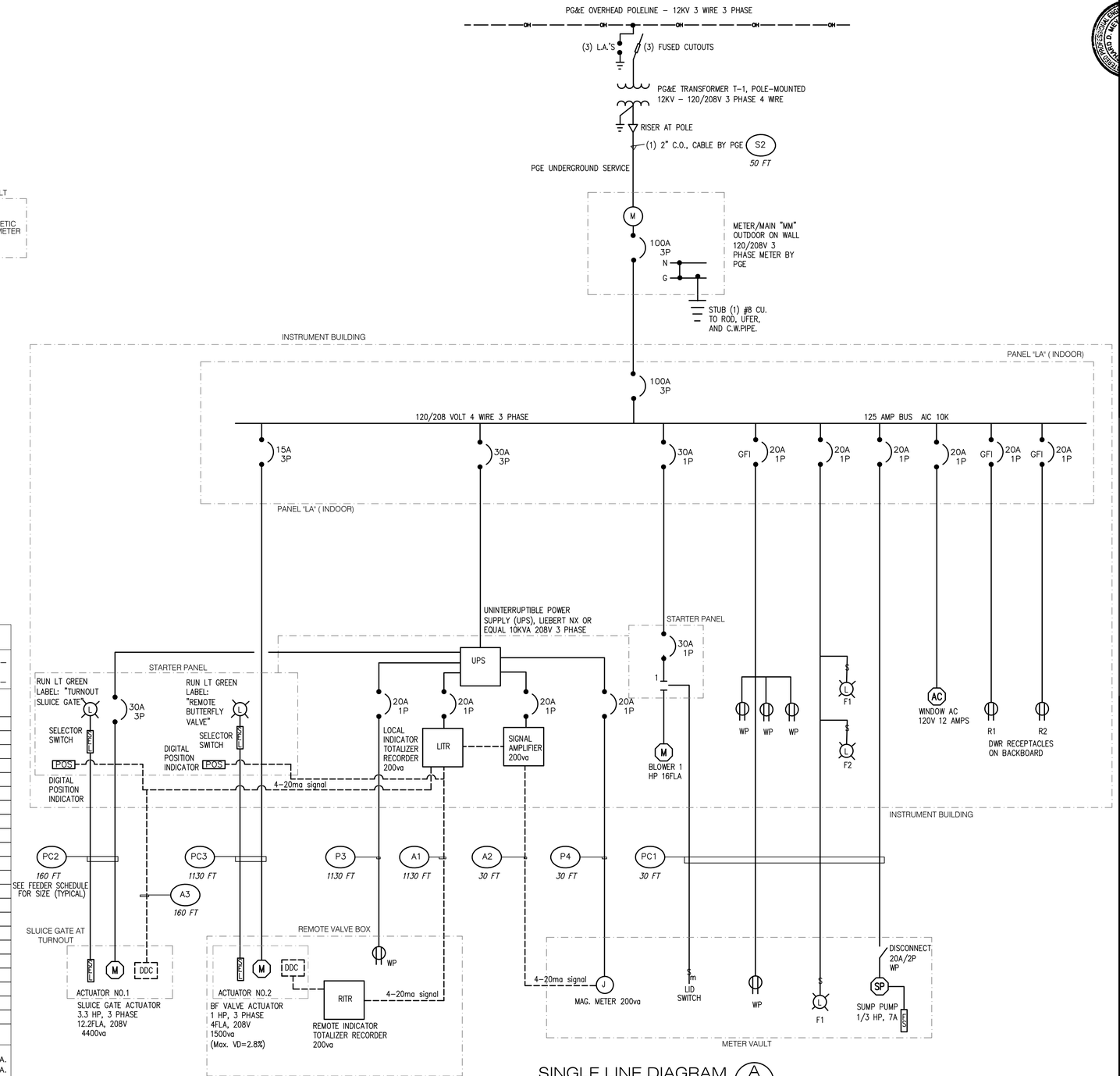
PHASE VOLT-AMPS:
PHASE A TOTAL: 6800 VA.
PHASE B TOTAL: 5700 VA.
PHASE C TOTAL: 4800 VA.

PHASE TOTAL AMPS:
PHASE A TOTAL: 57 A.
PHASE B TOTAL: 48 A.
PHASE C TOTAL: 40 A.

DEMAND CALCULATION

TOTAL CONNECTED VOLT-AMPS 17300 VA.
LONG CONTINUOUS LOADING (LCL) AT 25% 2500 VA.
TOTAL DEMAND 19800 VA.

TOTAL DEMAND AMPS = 19800 VOLT-AMPS ÷ 208 PANEL VOLTAGE ÷ √3 = 55 AMPS



SINGLE LINE DIAGRAM A/22

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Richard D. Meyer PCE 28104 Date

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1	7/22/11	Addendum No. 1	rdm

PM: RDM
Drawn By: RDM/GCB
Approved By: RDM
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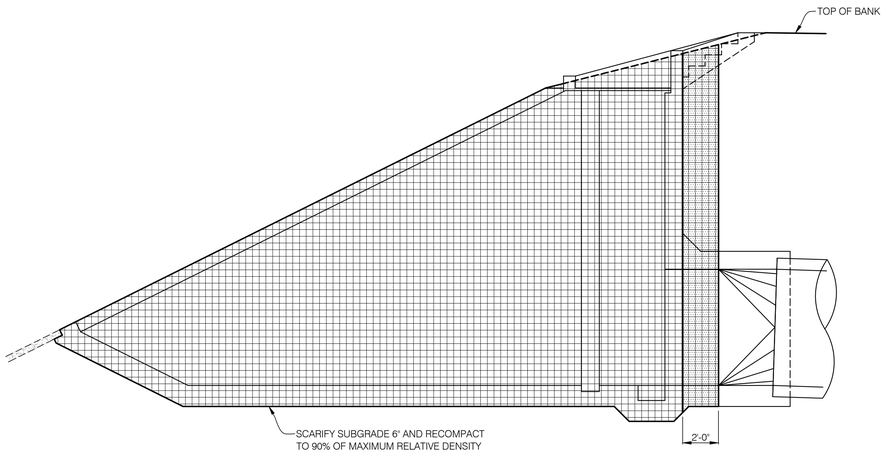
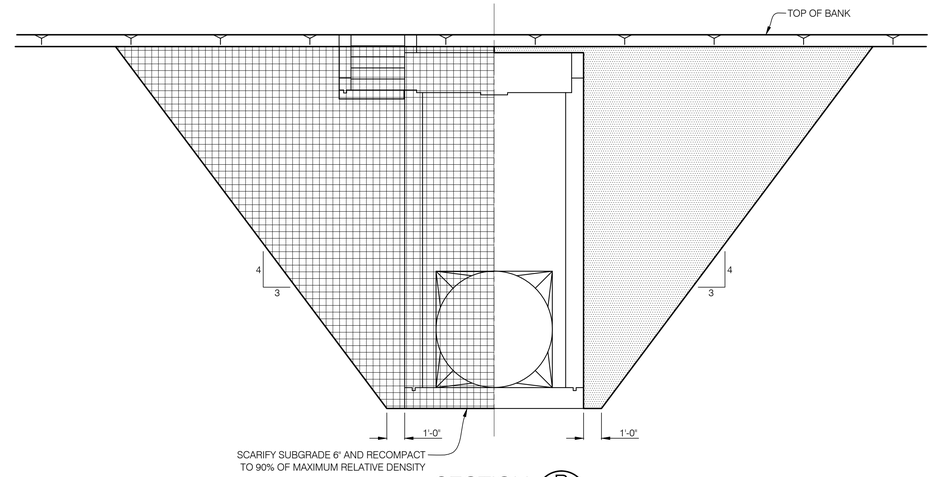
Date: 1/03/11

BUENA VISTA WATER STORAGE DISTRICT
BUENA VISTA TURNOUT #8
ELECTRICAL SINGLE LINE DIAGRAM

SHEET NO. 22 OF 25



TURNOUT STRUCTURE (A / 23)



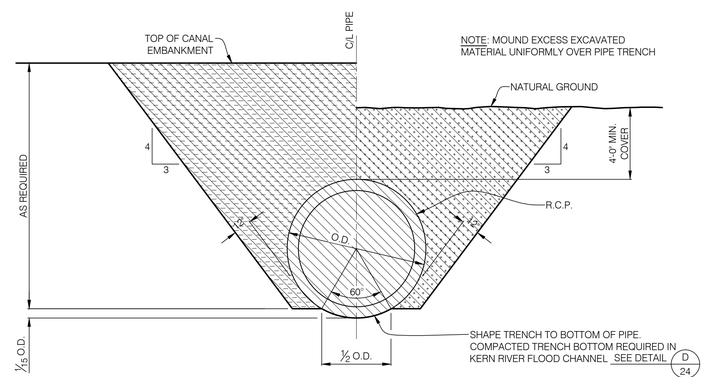
SECTION (B / 23)

PAYLINES LEGEND

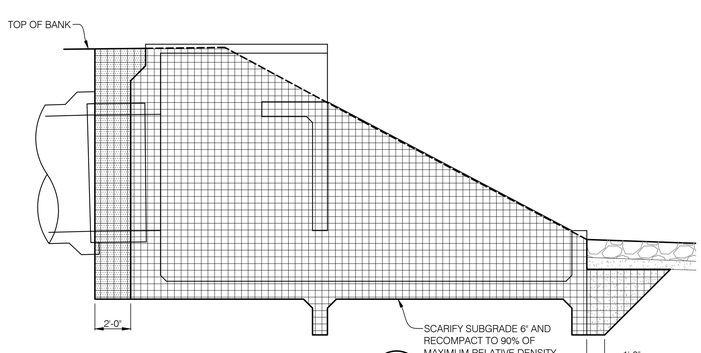
- STRUCTURE EXCAVATION
- STRUCTURE BACKFILL
- TRENCH EXCAVATION
- NORMAL TRENCH BACKFILL
- COMPACTED TRENCH BACKFILL

GENERAL EARTHWORK NOTES

1. PIPE TRENCH SHALL BE GRADED TO PROVIDE UNIFORM SUPPORT FOR THE ENTIRE LENGTH OF PIPE EXCEPT BELL HOLES.
2. BELL HOLES SHALL HAVE A 3" MINIMUM CLEARANCE BETWEEN OUTSIDE OF THE PIPE AND GROUND SURFACE.
3. ALL TRENCH AND STRUCTURE BACKFILL SHALL BE COMPACTED AS PER SPECIFICATIONS.
4. WHERE UNSUITABLE MATERIALS ARE FOUND, CONTRACTOR SHALL OVER EXCAVATE 6" MINIMUM AND REPLACE WITH COMPACTED BACKFILL AS DIRECTED BY THE ENGINEER.



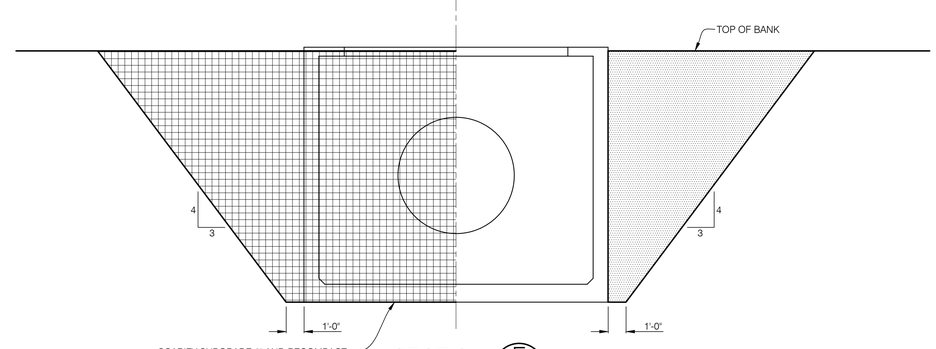
TYPICAL PIPE TRENCH (C / 23)



OUTLET STRUCTURE (D / 23)

TURNOUT STRUCTURE AND OUTLET STRUCTURE NOTES:

1. STRUCTURE BACKFILL PLACED INSIDE STRUCTURE WINGWALLS SHALL BE OBTAINED FROM STRUCTURE EXCAVATIONS OR FROM SELECT BORROW AREAS. BACKFILL MATERIAL SHALL NOT CONTAIN MORE THAN 15% FINES PASSING A #200 SIEVE.
2. WHERE UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED, OVER EXCAVATE 12" MINIMUM AND REPLACE WITH SELECT PERVIOUS BACKFILL



SECTION (E / 23)

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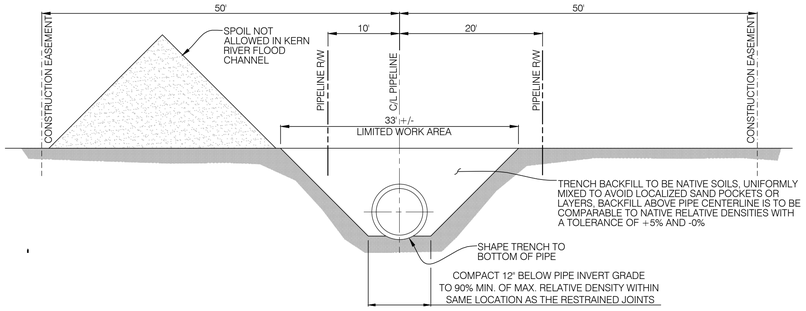
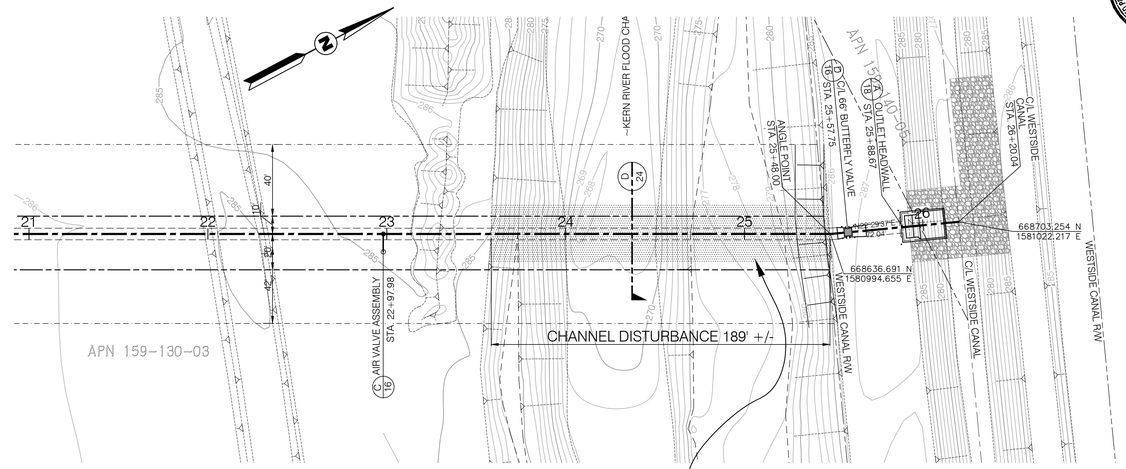
BUENA VISTA WATER STORAGE DISTRICT
BUENA VISTA TURNOUT #8
EARTHWORK PAYLINES

SHEET NO. 23 OF 25



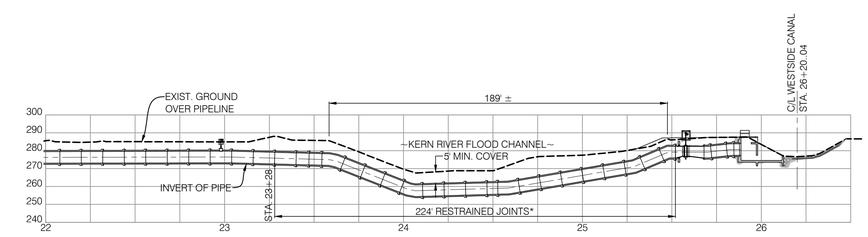
PIPELINE TRENCH WITHIN FLOODWAY (D/24)



PLAN - KERN RIVER FLOOD CHANNEL XING (A/24)

DISTURBED AREA

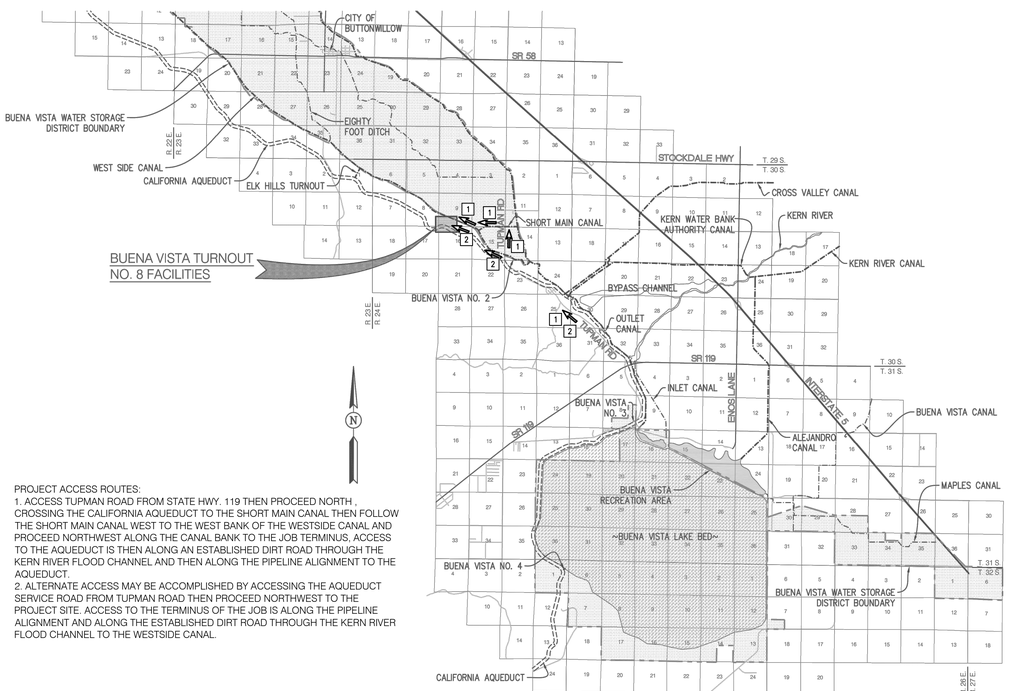
1) THE MAXIMUM DISTURBED SURFACE AREA OF THE FLOOD CHANNEL DUE TO TRENCHING IS 0.14 ACRES.
2) NO SPOIL OR EQUIPMENT STAGING TO OCCUR WITHIN THE FLOOD CHANNEL.
3) EXCESS SOIL SHALL BE DISPOSED OF IN AN UPLAND LOCATION.
4) ALL EQUIPMENT REQUIRE RUBBER TIRES OR RUBBER TRACKS IN THE WETLAND AREAS OF THE CHANNEL.



*JOINTS ARE TO BE LONGITUDINALLY RESTRAINED WITH AN APPROVED BELL-BOLT TYPE SYSTEM OR CLAMP-TYPE JOINT RING. SPECIAL COMPACTION REQUIREMENT, REFER TO SECTION D/24.

PROFILE - KERN RIVER FLOOD CHANNEL XING (B/24)

SCALES:
HORIZONTAL: 1"=40'
VERTICAL: 1"=40'



PROJECT ACCESS ROUTES:
1. ACCESS TUPMAN ROAD FROM STATE HWY. 119 THEN PROCEED NORTH , CROSSING THE CALIFORNIA AQUEDUCT TO THE SHORT MAIN CANAL THEN FOLLOW THE SHORT MAIN CANAL WEST TO THE WEST BANK OF THE WESTSIDE CANAL AND PROCEED NORTHWEST ALONG THE CANAL BANK TO THE JOB TERMINUS, ACCESS TO THE AQUEDUCT IS THEN ALONG AN ESTABLISHED DIRT ROAD THROUGH THE KERN RIVER FLOOD CHANNEL AND THEN ALONG THE PIPELINE ALIGNMENT TO THE AQUEDUCT.
2. ALTERNATE ACCESS MAY BE ACCOMPLISHED BY ACCESSING THE AQUEDUCT SERVICE ROAD FROM TUPMAN ROAD THEN PROCEED NORTHWEST TO THE PROJECT SITE. ACCESS TO THE TERMINUS OF THE JOB IS ALONG THE PIPELINE ALIGNMENT AND ALONG THE ESTABLISHED DIRT ROAD THROUGH THE KERN RIVER FLOOD CHANNEL TO THE WESTSIDE CANAL.

PROJECT ACCESS (C/24)

REGISTERED PROFESSIONAL ENGINEER
RICHARD D. MEYER
No. 25104
Exp. 3-31-12
CIVIL
STATE OF CALIFORNIA

Richard D. Meyer 10-7-11
Richard D. Meyer RCE 25104 — Date

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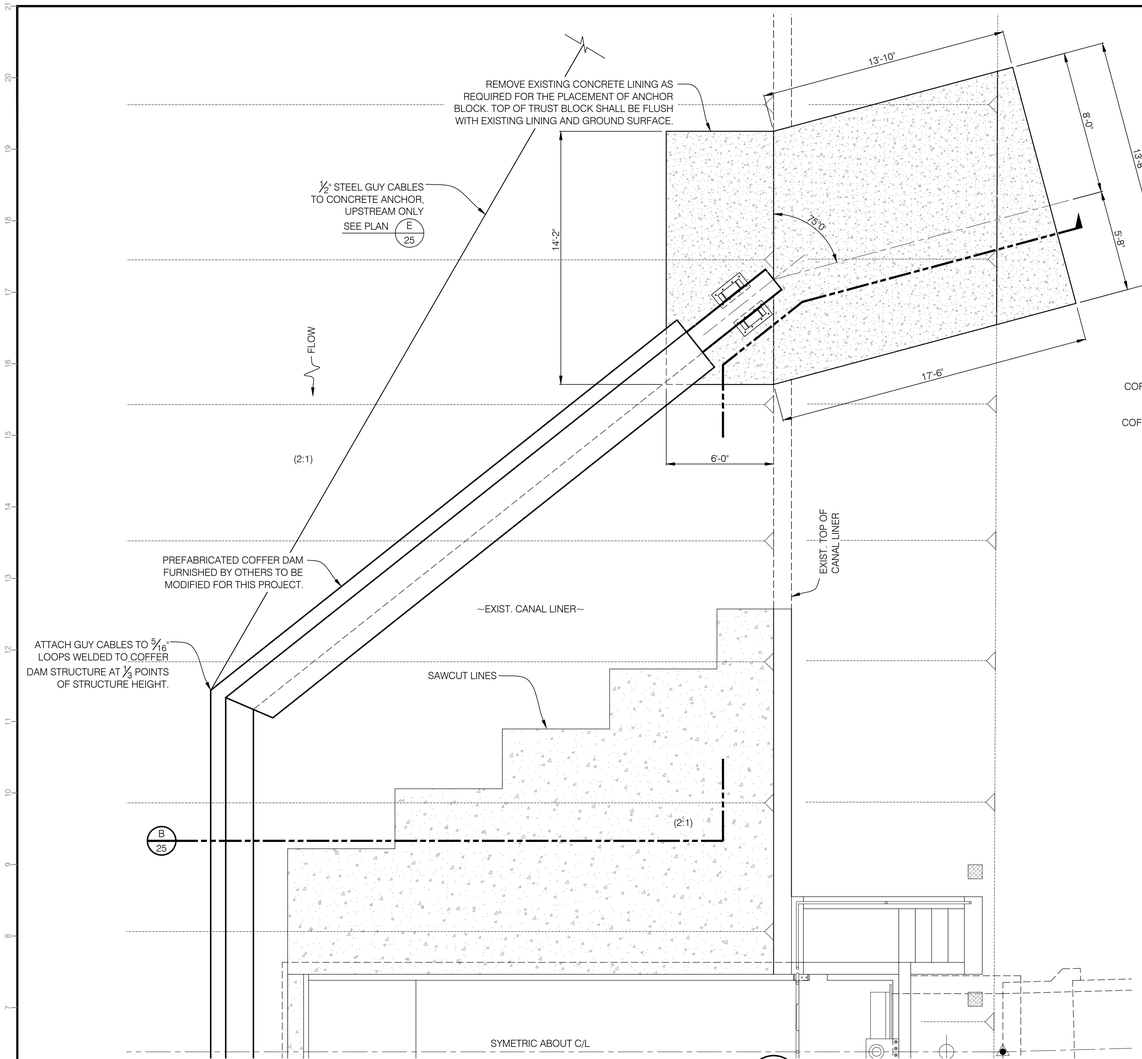
Rev. No.	Date	Revision Description	Approved By

PM: RDM
Drawn By: RDM/SCB
AutoCAD File: BWW0900110
File No: BW-09-001
Date: 10/07/11

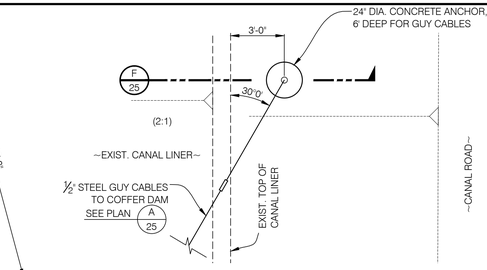
BUENA VISTA WATER STORAGE DISTRICT
BUENA VISTA TURNOUT #8
FLOOD CHANNEL DISTURBANCE REQUIREMENTS

SHEET NO. 24 OF 25



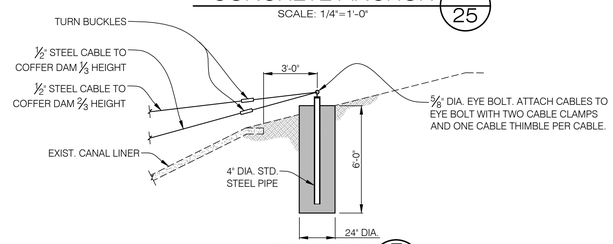
PLAN - COFFER DAM A 25

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



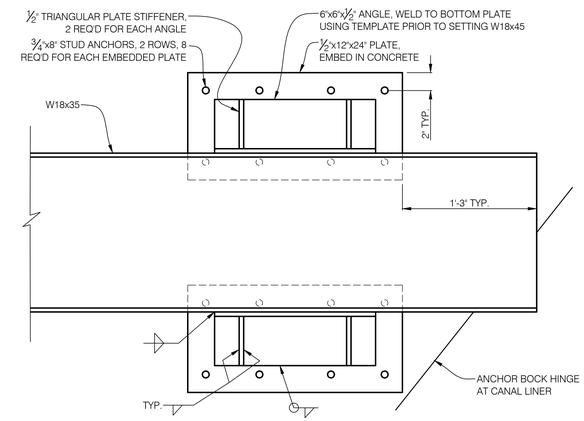
PLAN - GUY CABLE CONCRETE ANCHOR E 25

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



SECTION F 25

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

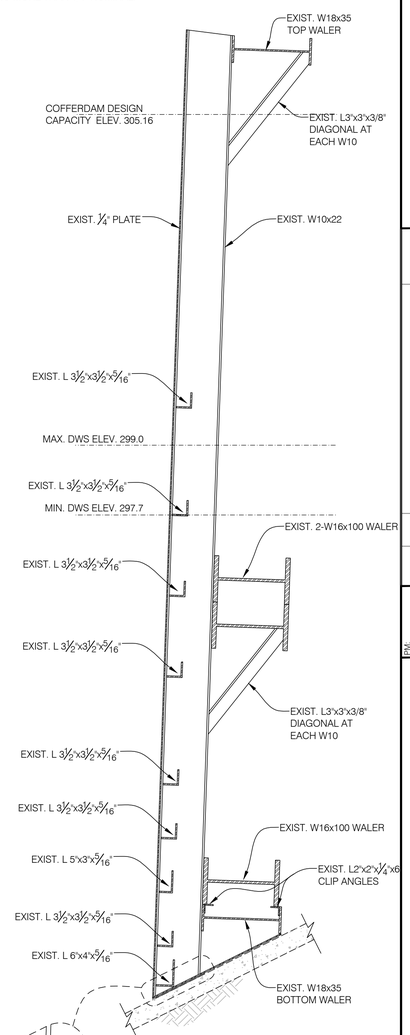


DETAIL D 25

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

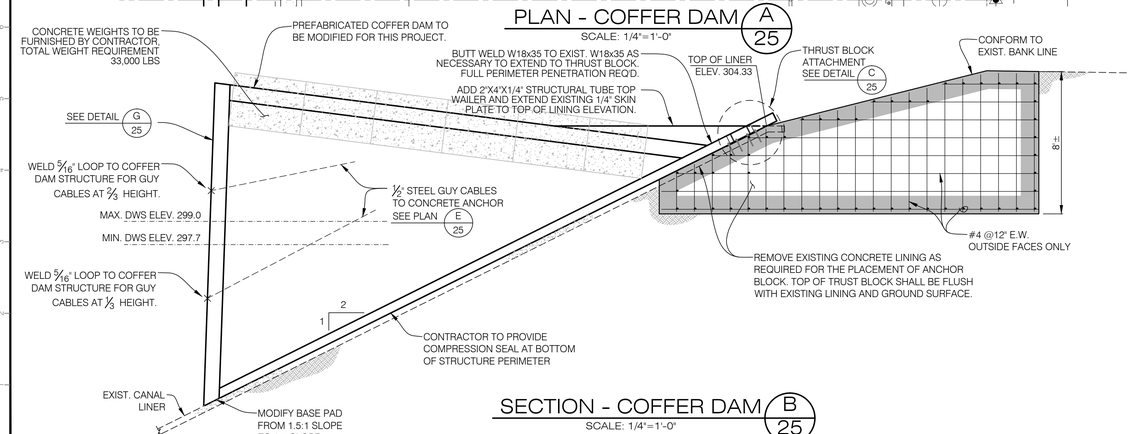
NOTES:

1. DRAWING REPRESENTS INSTALLATION OF PRE-FABRICATED STEEL COFFER DAM. CONTRACTOR SHALL BE RESPONSIBLE FOR FABRICATING ANY ADDITIONAL REQUIRED STRUCTURAL ELEMENTS. STRUCTURE SHALL BE ANCHORED TO TOP OF ANCHOR BLOCKS AND BY GUYS. STABILIZATION GUY CABLES SHALL BE FURNISHED AND INSTALL BY THE CONTRACTOR. USE GUIDE CABLES ATTACHED TO LOADERS TO STEER COFFER DAM INTO FINAL POSITION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING MEASUREMENTS OF PRE-FABRICATED COFFER DAM AND MAKING ANY APPROPRIATE ADJUSTMENTS AND FOR VERIFYING ANCHOR ASSEMBLY LOCATION.
3. ASSUMED WATER SURFACE ELEVATION DURING CONSTRUCTION IS 297.70.
4. ALL ADDITIONAL STEEL MEMBERS SHALL BE A36 STEEL.
5. CONCRETE ANCHOR BLOCKS SHALL BE F'c=4,000 PSI AND MUST ATTAIN 80% OF DESIGN STRENGTH PRIOR TO DEWATERING COFFER DAM.
6. HANDLING, INSTALLATION, COMPRESSION SEAL, LIFTING, DEWATERING, AND REMOVAL OF COFFER DAM ARE THE SOLE RESPONSIBILITIES OF THE CONTRACTOR.
7. COFFERDAM ANCHORAGE THAT ENCROACHES INTO THE ROADWAY, SHALL RISE ABOVE THE ROADWAY BY NO MORE THAN 1/4" NOMINAL.



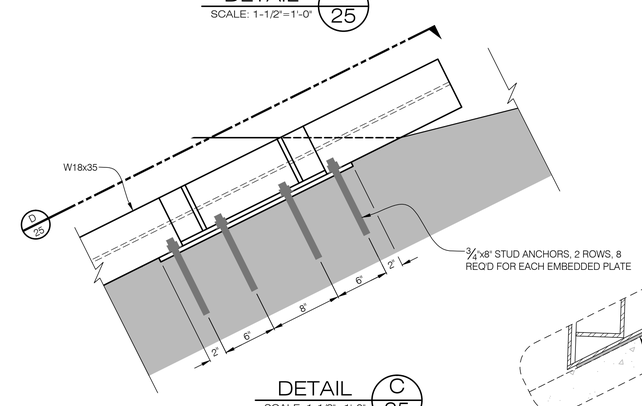
DETAIL G 25

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



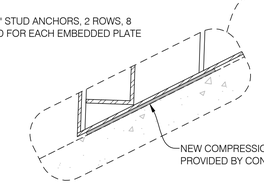
SECTION - COFFER DAM B 25

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



DETAIL C 25

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



REGISTERED PROFESSIONAL ENGINEER RICHARD D. MEYER No. 28104 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

Richard D. Meyer 10-7-11
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Rev. No.	Date:	Revision Description
1	7-28-11	ADDENDUM NO. 2

Approved By: RDM

P.M.: RDM
Drawn By: RDM/SCB
AutoCAD File: BW09001TO
File No: BVW-09-001
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BUENA VISTA WATER STORAGE DISTRICT
BUENA VISTA TURNOUT #8
COFFER DAM DETAILS

SHEET NO. 25 OF 25