

# COUNTY OF EL DORADO, CA DEPARTMENT OF TRANSPORTATION

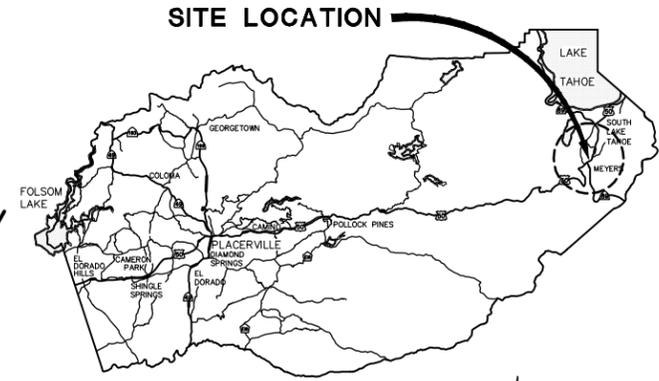
## PROJECT PLANS FOR THE CONSTRUCTION OF THE 2023 MEYERS STREAM ENVIRONMENT ZONE/ EROSION CONTROL PROJECT

IN THE COUNTY OF EL DORADO, DISTRICT 5  
E SAN BERNARDINO AVE IN THE SUBDIVISIONS OF TAHOE PARADISE UNITS 4, 5, AND 6  
IN THE UNINCORPORATED AREA OF THE COMMUNITY OF MEYERS

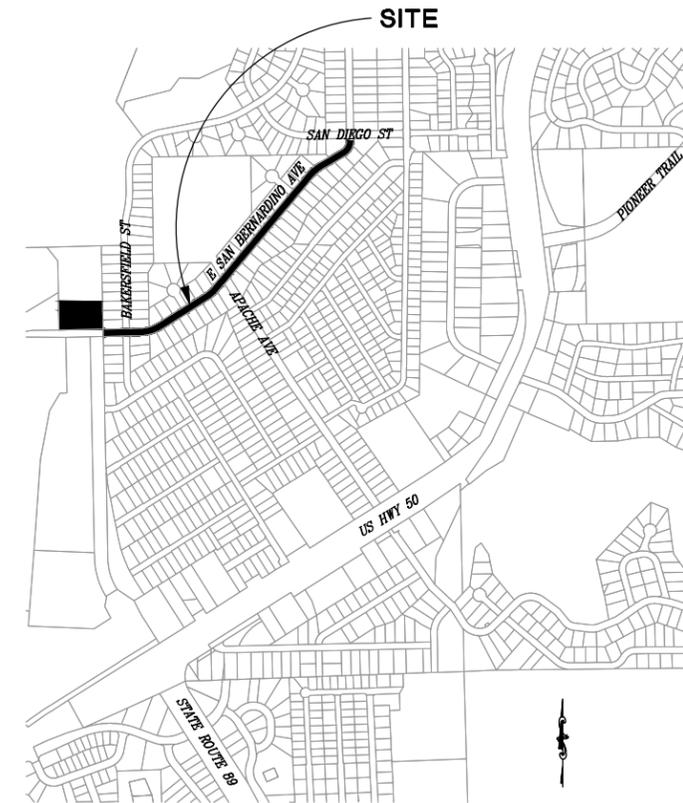
To be supplemented with Standard Plans and Specifications dated 2018, including the  
2018 Revised Standard Specifications, of the California Department of Transportation,  
unless otherwise noted.

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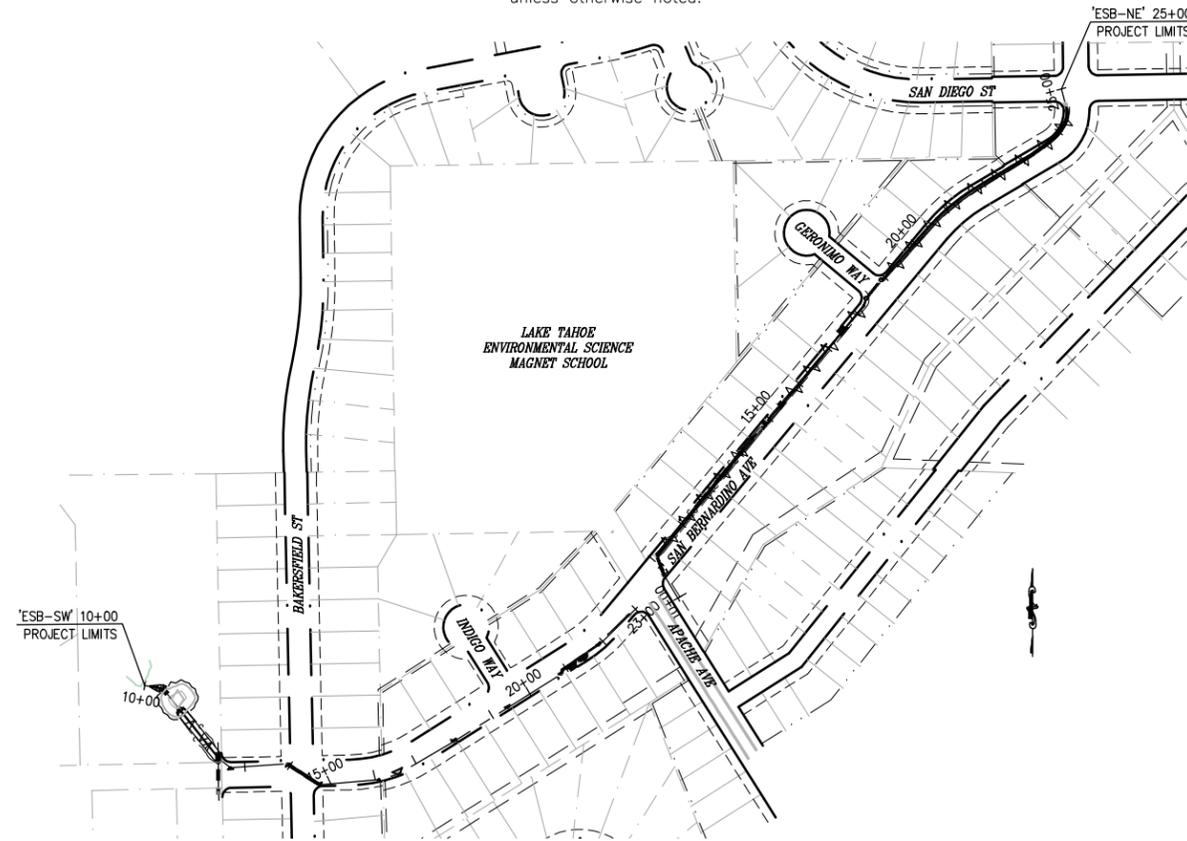
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**VICINITY MAP**  
COUNTY OF EL DORADO



**LOCATION MAP**  
NOT TO SCALE



**SITE PLAN**  
SCALE: 1"=200'

**BOARD OF SUPERVISORS**

— I —	JOHN HIDAHL
— II —	GEORGE TURNBOO
— III —	WENDY THOMAS
— IV —	LORI PARLIN
— V —	BROOKE LAINE

**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

(530) 621-5900  
2850 FAIRLAKE CT  
PLACERVILLE, CA 95667

ADOPTED AND APPROVED BY:

WENDY THOMAS  
CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS

APPROVED BY:

RAFAEL MARTINEZ, DIRECTOR  
DEPARTMENT OF TRANSPORTATION

JOHN H. WAHLING P.E. NO. C52426  
DEPUTY DIRECTOR, ENGINEERING

CONTRACT NO. 7377 CIP NO. 36107007

**MEYERS STREAM ENVIRONMENT  
ZONE/ EROSION CONTROL  
PROJECT**

**TITLE SHEET**

SHEET **1** OF **29**

### FUNDING AGENCY

USDA FOREST SERVICE  
STATE OF CALIFORNIA PROPOSITION 1  
TAHOE REGIONAL PLANNING AGENCY



*[Signature]*  
SUBMITTED BY:  
CIVIL ENGINEER  
STATE OF CALIFORNIA NO. C66083

APRIL 28, 2023  
DATE

CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Act (Business and Professions Code section 7000 et seq.) and shall possess a CLASS A LICENSE or equivalent combination of Classes required by the categories and type of Work included in the Contract Documents and Plans. Failure of the successful Bidder to obtain proper and adequate licensing at the time bids are submitted shall constitute a failure to execute the Contract, and forfeiture as provided under that section.

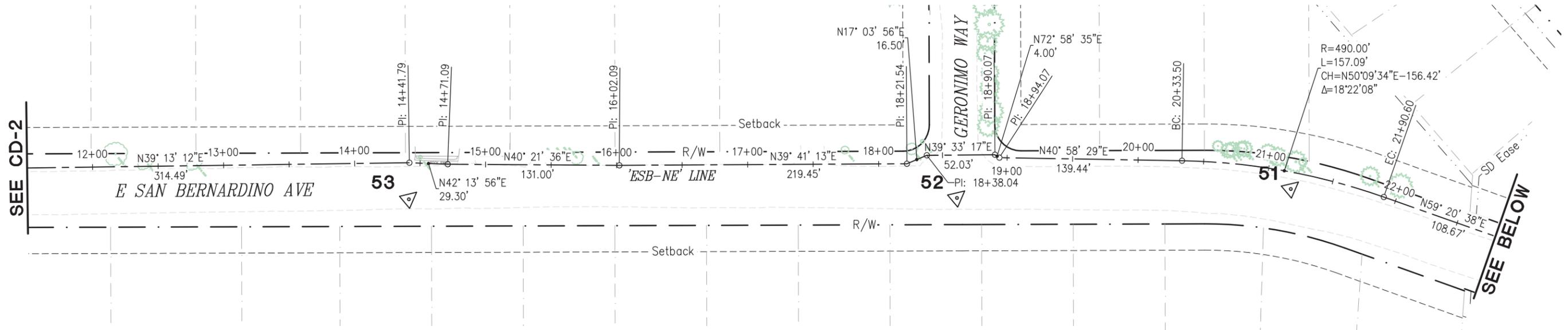
### REVISIONS

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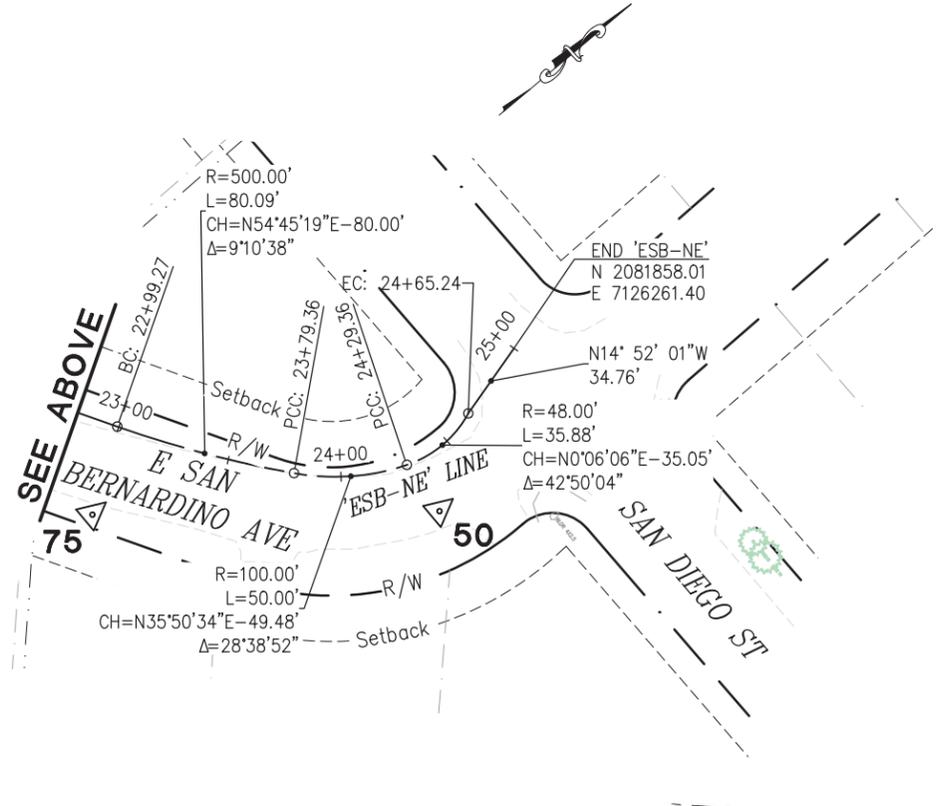




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CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	2081787.34	7126294.90	6304.63	MAG NAIL
51	2081597.18	7126032.18	6306.32	S-MAG
52	2081397.66	7125873.64	6308.56	S-MAG
53	2081076.59	7125605.50	6311.73	S-MAG
75	2081670.04	7126198.45	6304.78	5/8" REBAR



**SURVEY AND CONTROL DIAGRAM**  
SCALE : 1" = 40'



PREPARED UNDER THE SUPERVISION OF :  
*Joseph C. Neely*  
 PROFESSIONAL LAND SURVEYOR  
 APRIL 28, 2023

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: JCN  
 DATE: 1/2023  
 ROAD NUMBER: 2252B

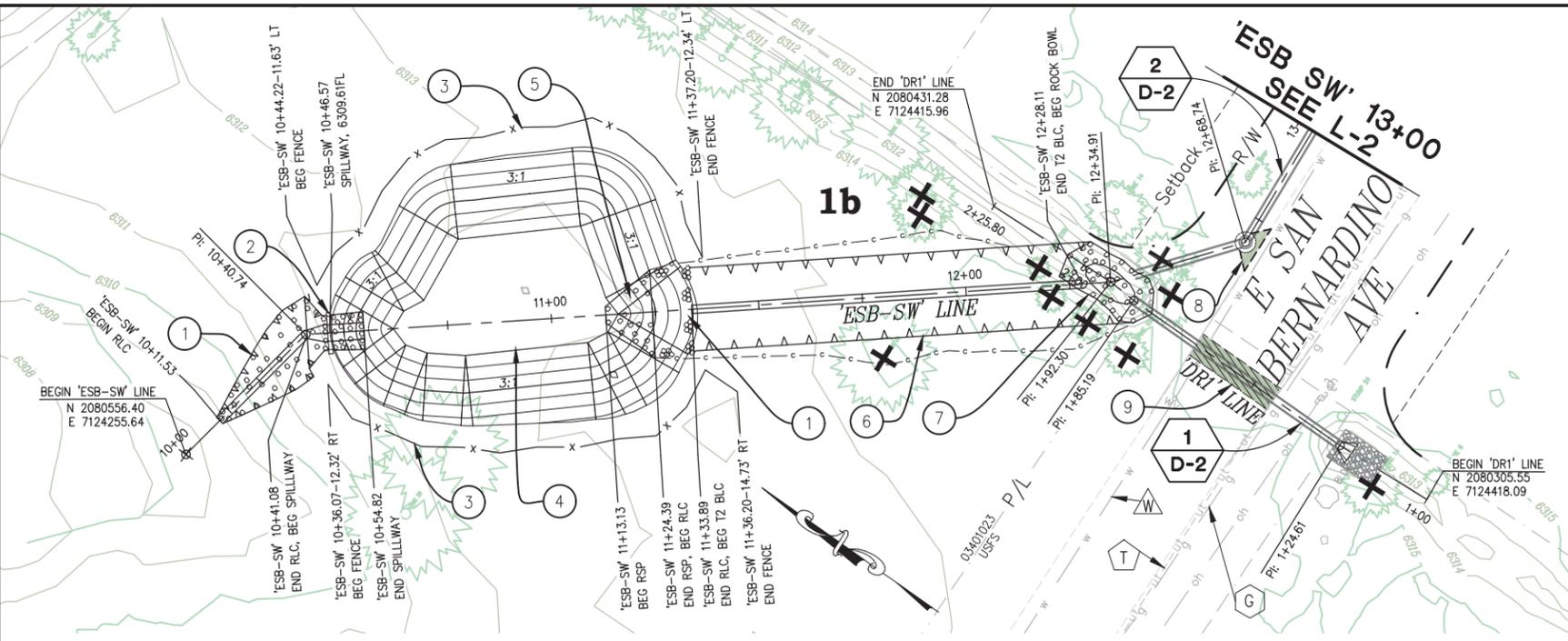


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

SHEET  
**CD-2**  
 3 OF 29  
 W.O. No. 36107007

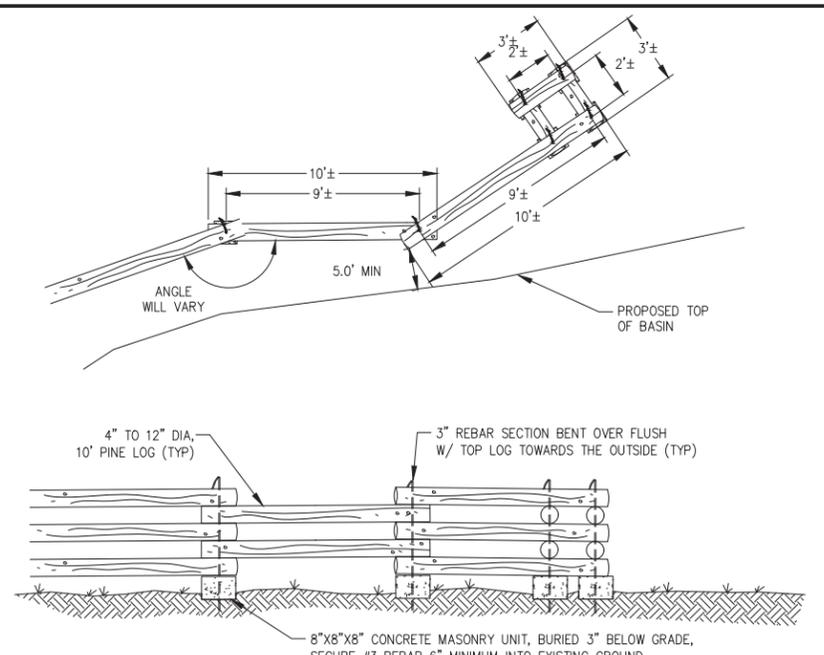
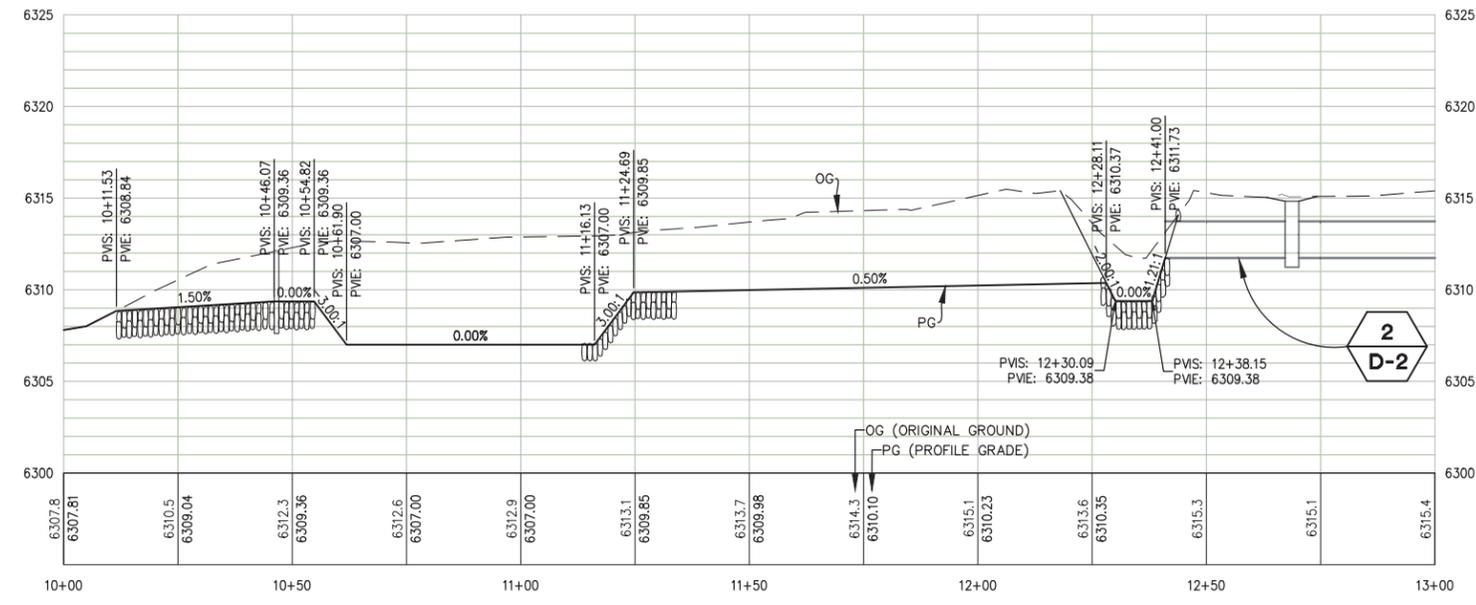
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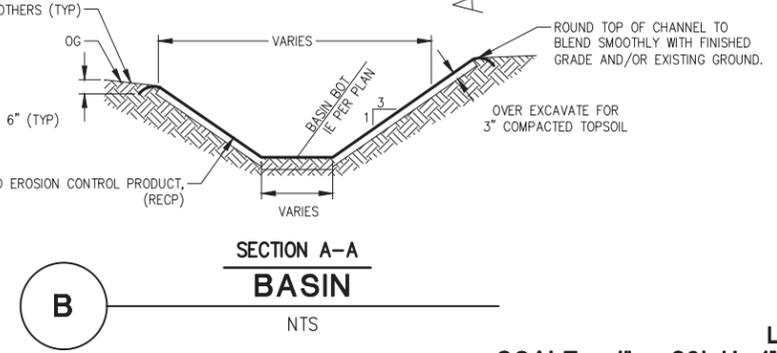
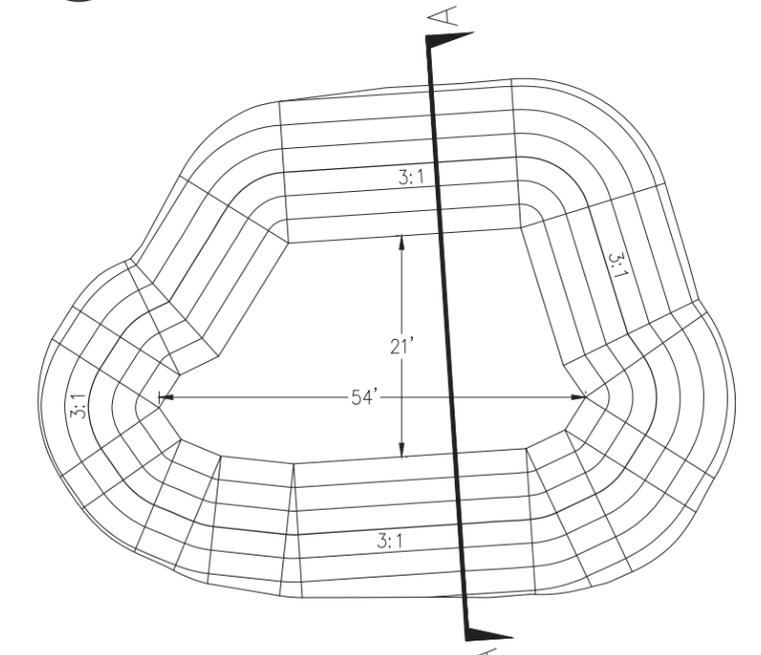
- LEGEND**
- REMOVE HMA
  - INSALL HMA
  - 1b** LAND CAPABILITY
  - WATER LINE
  - SEWER LINE
  - TELEPHONE LINE
  - GAS LINE

- CONSTRUCTION NOTES:**
- 1 — ROCK LINED CHANNEL (RLC). SEE DETAIL 2 SHEET C-1.
  - 2 — CONCRETE SPILLWAY. SEE DETAIL 1 SHEET C-1.
  - 3 — WOOD RAIL FENCE. SEE DETAIL A THIS SHEET.
  - 4 — BASIN. SEE DETAIL B THIS SHEET.
  - 5 — ROCK SLOPE PROTECTION (RSP). SEE DETAIL 3 SHEET C-1.
  - 6 — BLANKET LINED CHANNEL (T2 BLC). SEE DETAIL A SHEET L-6.
  - 7 — ROCK BOWL. SEE DETAIL A SHEET L-5.
  - 8 — INLET APRON. SEE DETAIL A SHEET L-2.
  - 9 — REMOVE/REPLACE HMA. SEE DETAIL B SHEET D-2.

- GENERAL NOTES:**
1. INSTALL TEMPORARY FENCING PER THE EC SHEETS.
  2. SEE SHEET TR-1 FOR TREE REMOVAL.
  3. ALL DISTURBED SOIL SHALL BE REVEGETATED PER THE EC SHEETS.
  4. THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. THE CONTRACTOR SHALL EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.
  5. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES.



**A WOOD RAIL FENCE**  
NTS



**B SECTION A-A BASIN**  
NTS

**LAYOUT**  
SCALE : 1" = 20' H, 1" = 5' V

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 APRIL 28, 2023  
 DATE:

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B

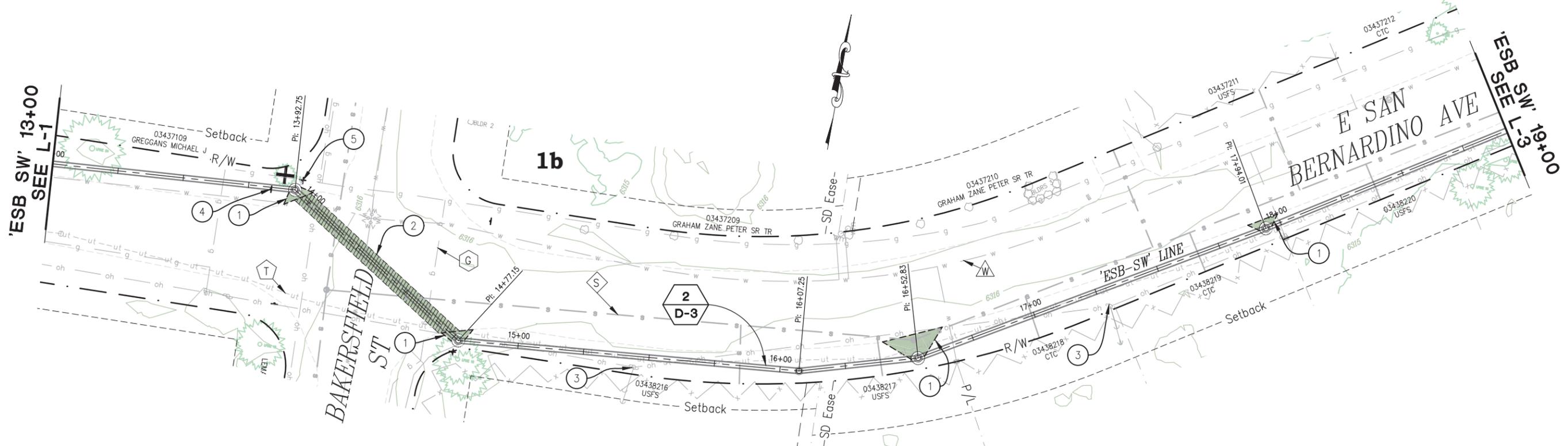


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

SHEET  
**L-1**  
 4 OF 29  
 W.O. No.  
**36107007**

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 FOR REDUCED PLANS  
 REVISION  
 NUMBER DATE DESCRIPTION BY

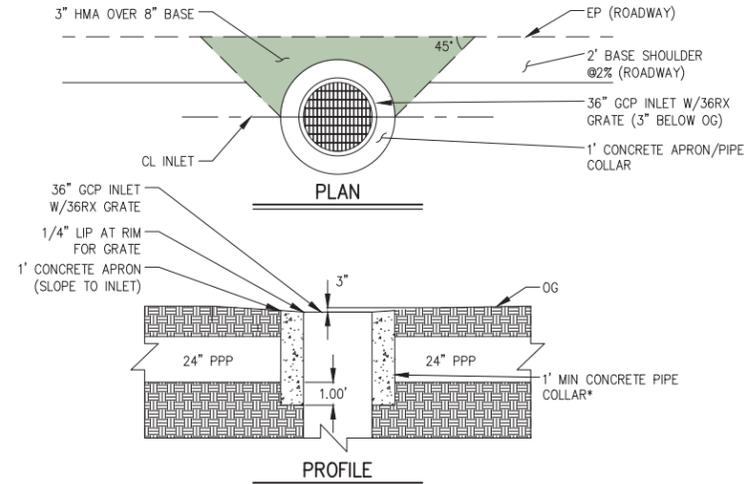


**LEGEND**

- REMOVE HMA
- INSTALL HMA
- 1b** LAND CAPABILITY

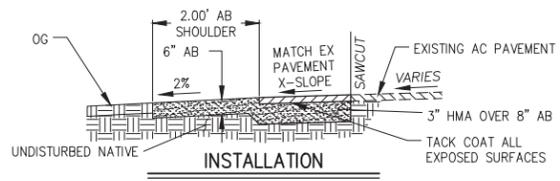
**CONSTRUCTION NOTES:**

- ① — INLET APRON. SEE DETAIL A THIS SHEET.
- ② — REMOVE/REPLACE HMA. SEE DETAIL B THIS SHEET, DETAIL B SHEET D-2.
- ③ — UTILITY POLE AND GUY WIRE. PROTECT IN PLACE.
- ④ — REMOVE AND RELOCATE SIGN PER ENGINEER IN THE FIELD.
- ⑤ — STREET SIGN. PROTECT IN PLACE.

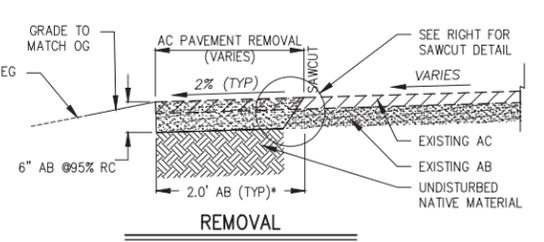


- NOTES:**
- FOR CONDITIONS THAT DO NOT ALLOW FOR 1' OF CONCRETE ABOVE PIPE, PLACE CONCRETE BETWEEN AC AND TOP OF PIPE.
  - AT 'ESB-SW' 16+52.83 WARP AC TO MATCH smh.

**A** — **INLET APRON**  
NTS

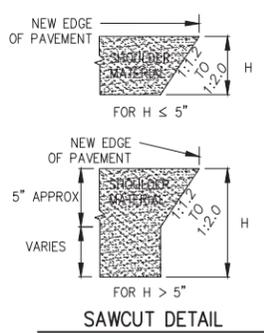


- NOTES:**
- SAWCUT LIMITS TO BE MARKED BY ENGINEER IN THE FIELD EXCEPT WHERE OVER PIPE SEE PIPE TRENCH DETAIL D-X.



- NOTES:**
- FOR AREAS ADJACENT TO CHANNEL, EXTEND SHOULDER TO TOP OF CHANNEL.
  - SAWCUT LIMITS TO BE MARKED BY ENGINEER IN THE FIELD.

**B** — **REMOVE AND REPLACE HMA**  
NTS



**LAYOUT**  
SCALE : 1" = 20'



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: **APRIL 28, 2023**

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B

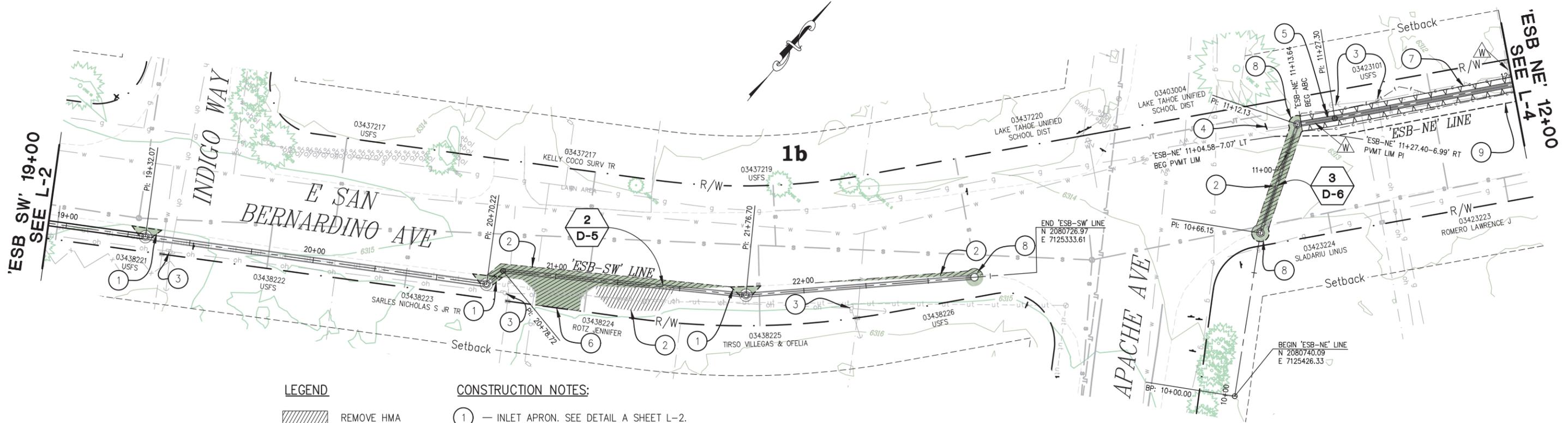


**COUNTY OF EL DORADO**  
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**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

SHEET  
**L-2**  
5 OF 29  
W.O. No. **36107007**

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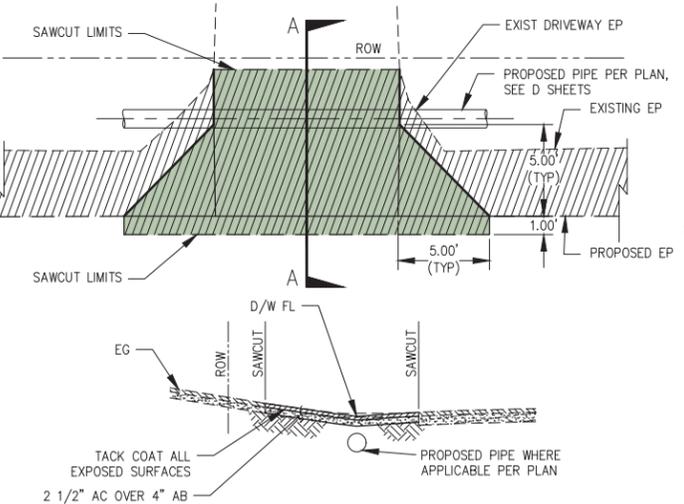


**LEGEND**

- REMOVE HMA
- INSTALL HMA
- 1b** LAND CAPABILITY

**CONSTRUCTION NOTES:**

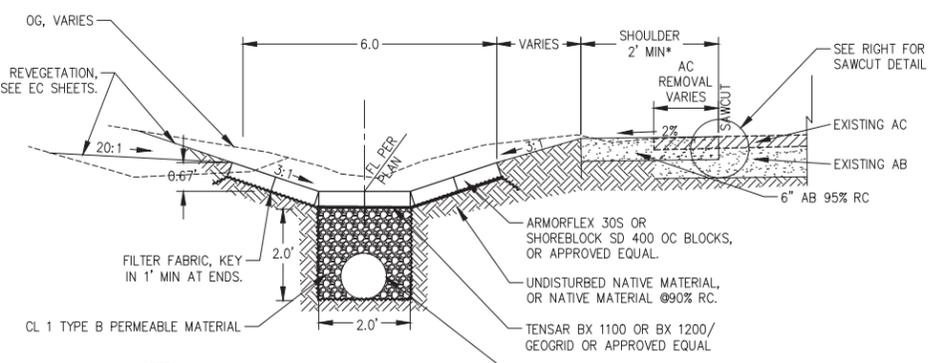
- ① — INLET APRON. SEE DETAIL A SHEET L-2.
- ② — REMOVE/REPLACE HMA. SEE DETAIL B SHEET L-2.
- ③ — UTILITY POLE AND GUY WIRE. PROTECT IN PLACE.
- ④ — SIGN. PROTECT IN PLACE.
- ⑤ — REMOVE AND RELOCATE SIGN PER ENGINEER IN THE FIELD.
- ⑥ — DRIVEWAY RECONSTRUCT. SEE DETAIL A THIS SHEET.
- ⑦ — ARTICULATED BLOCK CHANNEL (ABC). SEE DETAIL B THIS SHEET.
- ⑧ — 2' HMA AROUND INLET (3" HMA OVER 8" BASE). 'ESB-NE' 11+12.13 WARP TO MATCH ABC.
- ⑨ — PAVEMENT LIMITS. FINAL LOCATION PER ENGINEER IN THE FIELD.



**SECTION A-A**

NOTE:  
 1. SAW CUT LIMITS VARY. PER PLAN.  
 2. DWY FL LOCATION AND ELEVATION PER PLAN. FOR DRIVEWAY AT 'ESB-SW' 21+15 SLOPE AND GRADE DWY TO CONVEY FLOWS TO THE EAST.

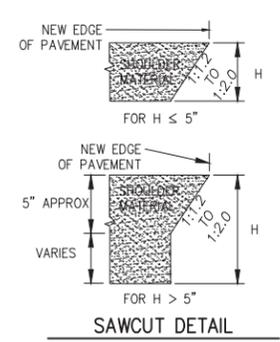
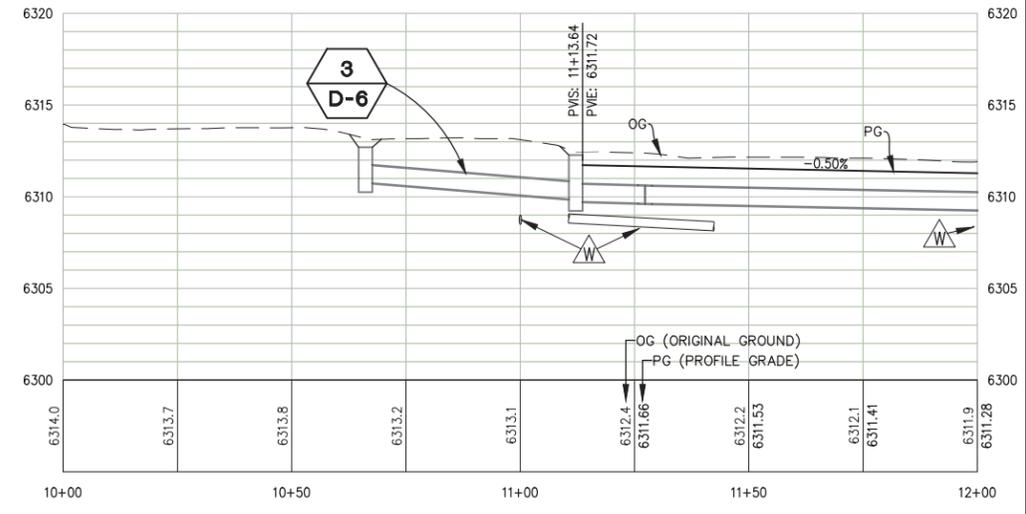
**A DRIVEWAY RECONSTRUCT**  
NTS



**NOTES:**

- 1. EXTEND SHOULDER TO TOP OF DITCH 3:1 TIE IN.
- 2. WARP BOTTOM AND SIDE SLOPES TO MATCH RIM AT INLET LOCATIONS.
- 3. SAWCUT LIMITS TO BE MARKED BY ENGINEER IN THE FIELD.

**B ARTICULATED BLOCK CHANNEL (ABC)**  
NTS



**LAYOUT**  
SCALE : 1" = 20' H, 1" = 5' V

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 APRIL 28, 2023

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B

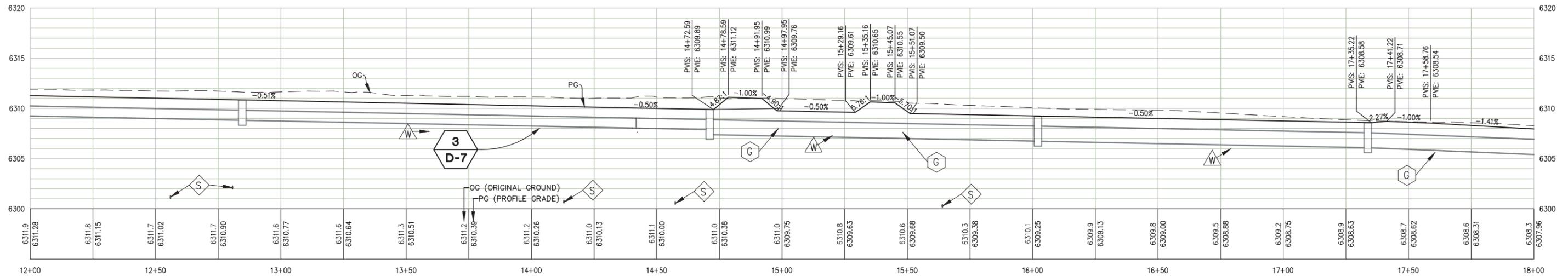
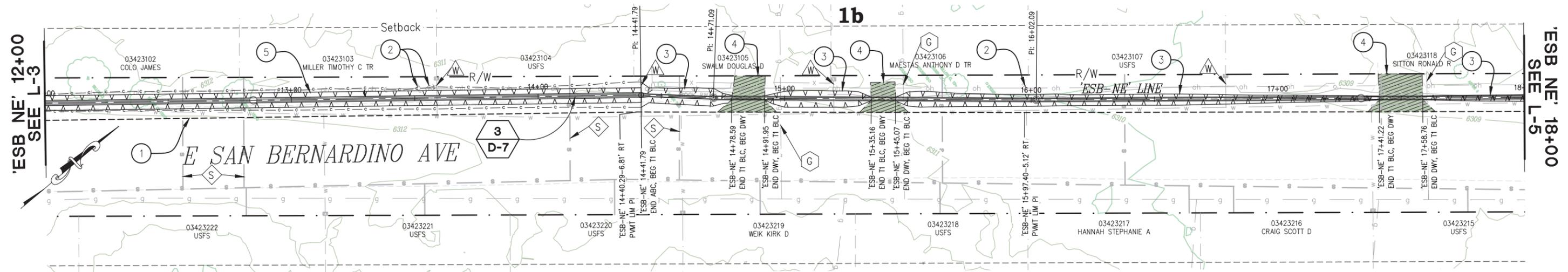


**COUNTY OF EL DORADO**  
DEPARTMENT OF TRANSPORTATION

**MEYERS STREAM ENVIRONMENT**  
ZONE/ EROSION CONTROL PROJECT

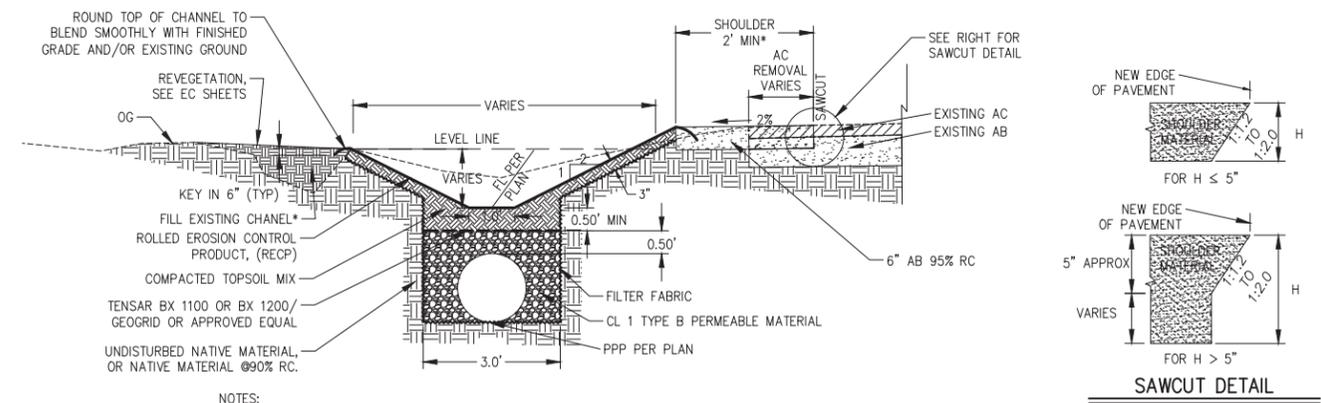
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**L-3**  
6 OF 29  
W.O. No. 36107007

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FOR REDUCED PLANS  
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dplairrom



- LEGEND**
- REMOVE HMA
  - INSTALL HMA
  - 1b** LAND CAPABILITY

- CONSTRUCTION NOTES:**
- ① — PAVEMENT LIMITS.
  - ② — UTILITY POLE AND GUY WIRE. PROTECT IN PLACE.
  - ③ — BLANKET LINED CHANNEL ABOVE PIPE (T1 BLC). SEE DETAIL A THIS SHEET.
  - ④ — DRIVEWAY RECONSTRUCT. SEE DETAIL A SHEET L-3.
  - ⑤ — ARTICULATED BLOCK CHANNEL (ABC). SEE DETAIL B SHEET L-3.



**A**  
**BLANKET LINED CHANNEL ABOVE PIPE (T1 BLC)**  
NTS

**LAYOUT**  
SCALE : 1" = 20' H, 1" = 5' V

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DATE: **APRIL 28, 2023**

DESIGNED: DSP  
DRAWN: KIS  
CHECKED: DSP  
DATE: 1/2023  
ROAD NUMBER: 2252B

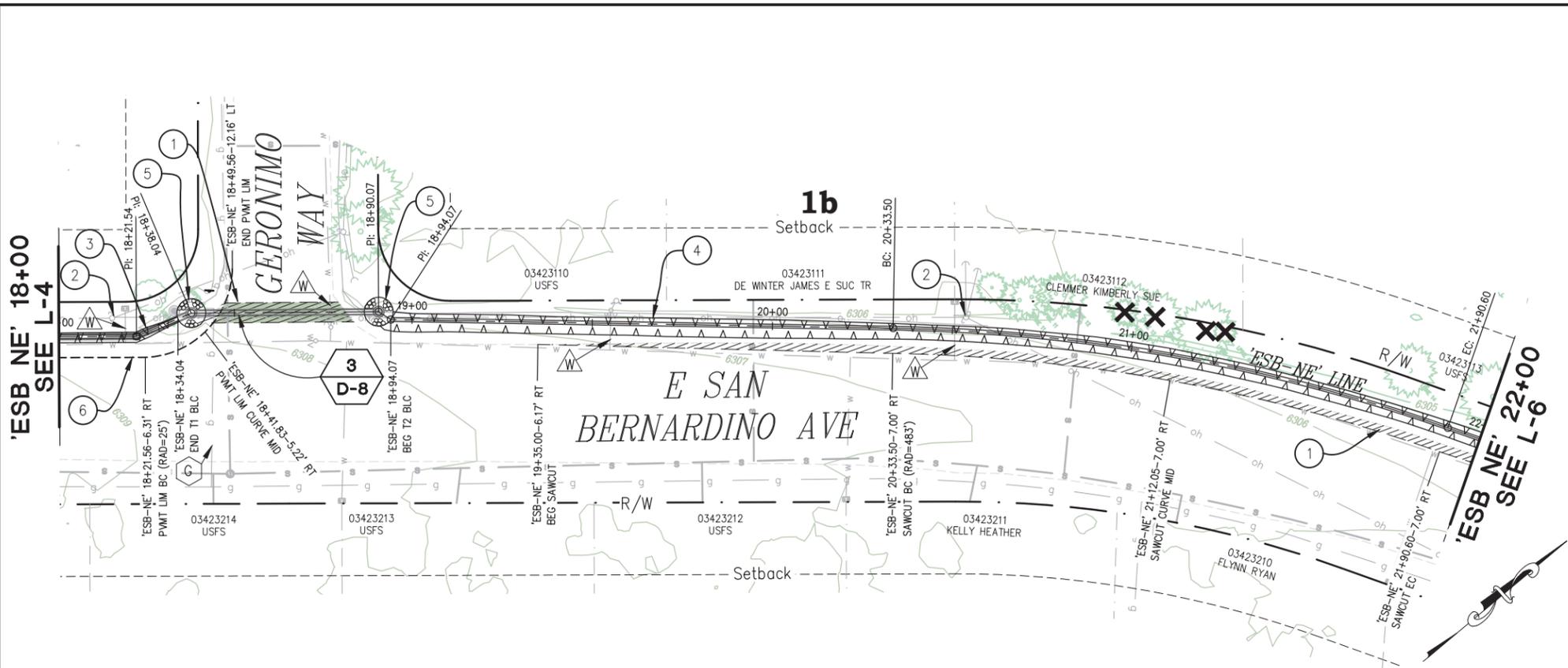


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

SHEET  
**L-4**  
7 OF 29  
W.O. No.  
**36107007**

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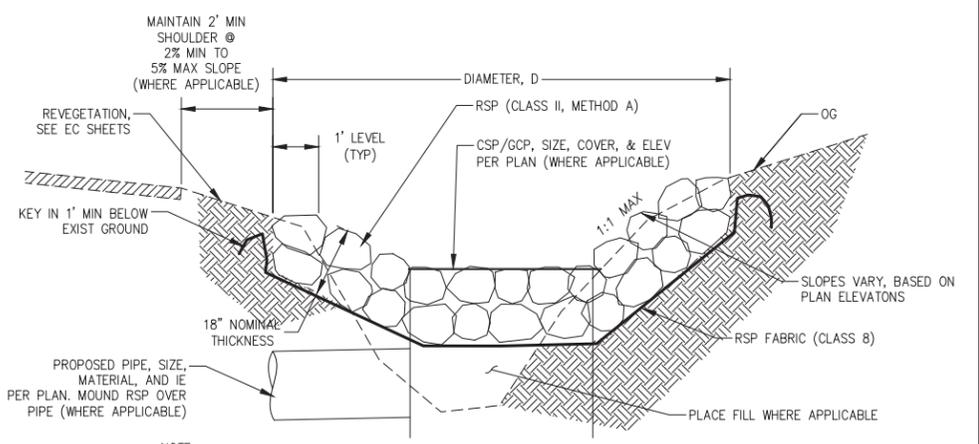
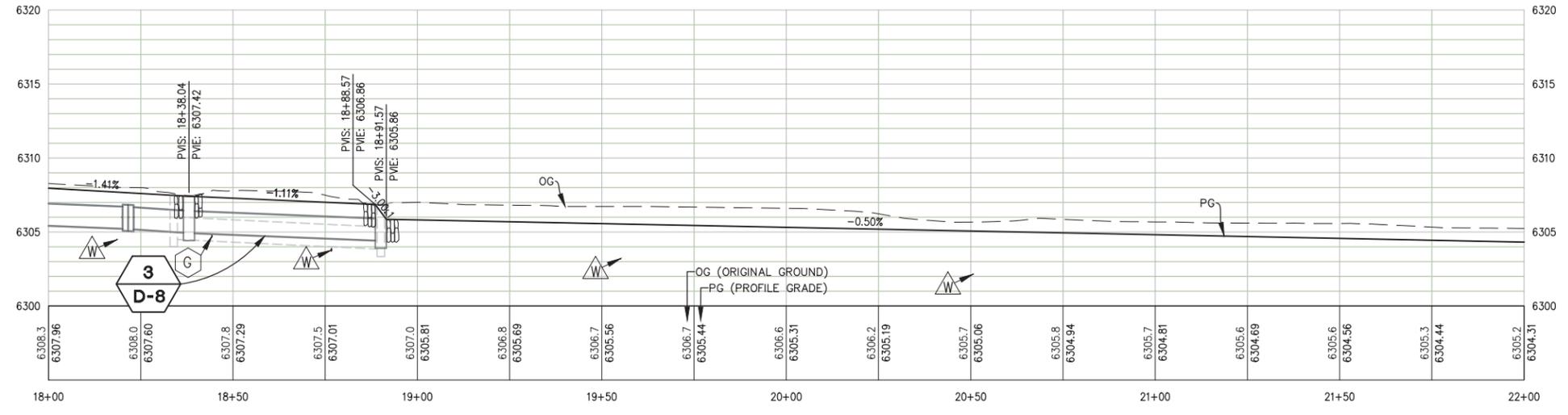


**LEGEND**

- REMOVE HMA
- 1b** LAND CAPABILITY

**CONSTRUCTION NOTES:**

- ① — REMOVE/REPLACE HMA. SEE DETAIL B SHEET L-2.
- ② — UTILITY POLE AND GUY WIRE. PROTECT IN PLACE.
- ③ — BLANKET LINED CHANNEL ABOVE PIPE (T1 BLC). SEE DETAIL A SHEET L-4.
- ④ — BLANKET LINED CHANNEL (T2 BLC) SEE DETAIL A SHEET L-4.
- ⑤ — ROCK BOWL. WARP TO MATCH CHANNEL SEE DETAIL A THIS SHEET.
- ⑥ — PAVEMENT LIMITS.



**A** **ROCK BOWL**  
NTS

**LAYOUT**  
SCALE : 1" = 20' H, 1" = 5' V

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 REGISTERED CIVIL ENGINEER  
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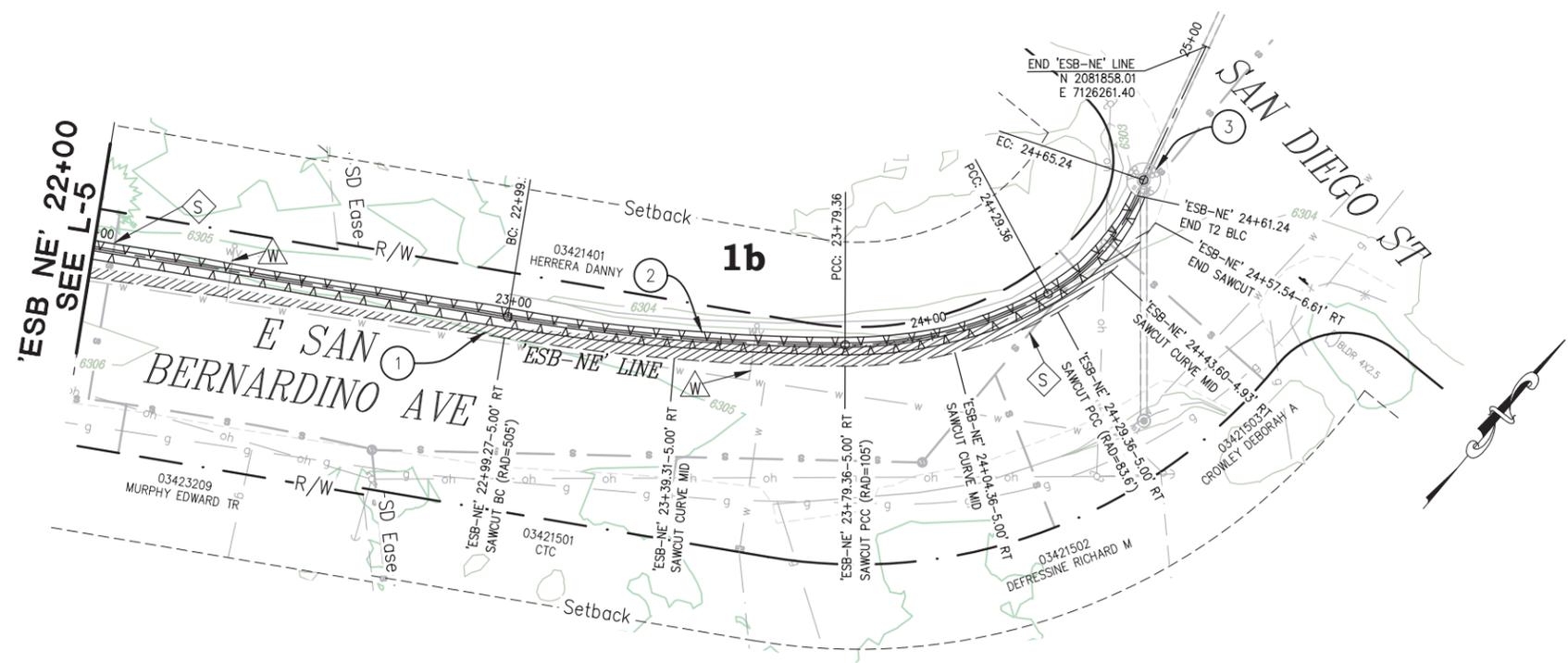


**COUNTY OF EL DORADO**  
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**MEYERS STREAM ENVIRONMENT**  
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SHEET  
**L-5**  
8 OF 29  
W.O. No.  
**36107007**

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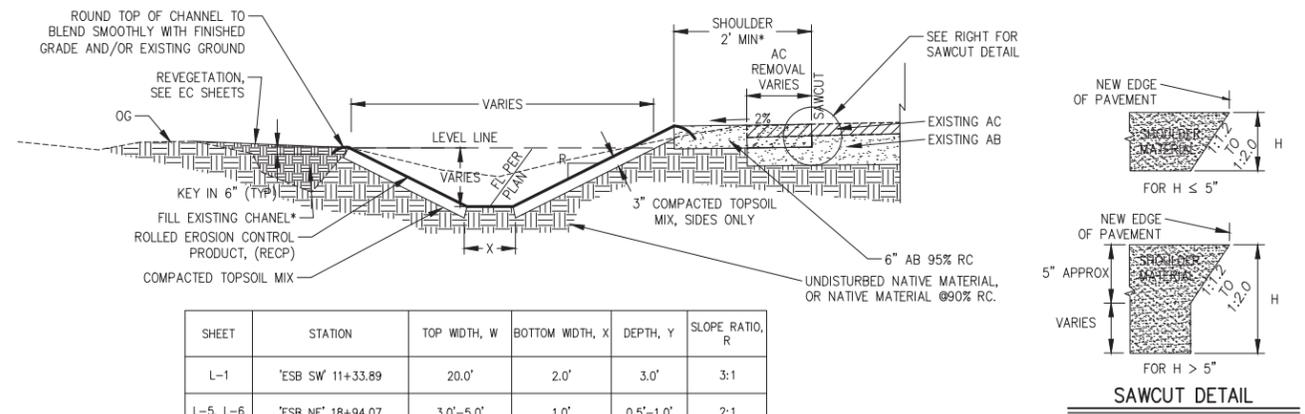
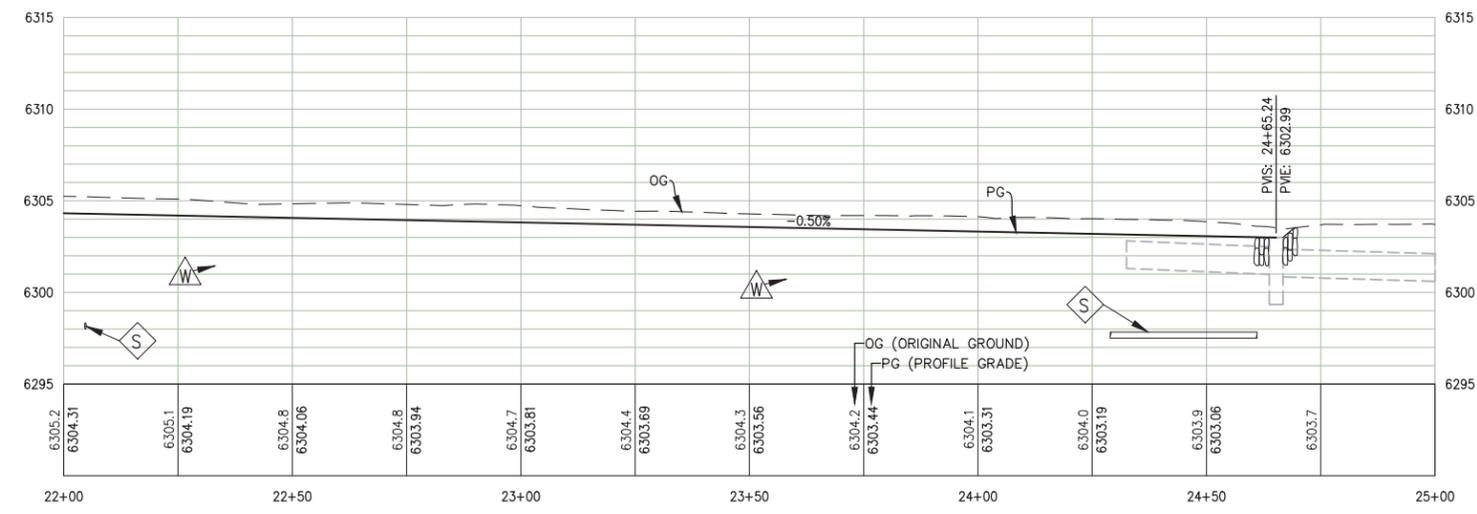


**LEGEND**

- REMOVE HMA
- 1b** LAND CAPABILITY

**CONSTRUCTION NOTES:**

- ① — REMOVE/REPLACE HMA. SEE DETAIL B SHEET L-2.
- ② — BLANKET LINED CHANNEL (T2 BLC) SEE DETAIL A THIS SHEET.
- ③ — RECONSTRUCT EXISTING ROCK BOWL TO MATCH CHANNEL SEE DETAIL A SHEET L-5.



SHEET	STATION	TOP WIDTH, W	BOTTOM WIDTH, X	DEPTH, Y	SLOPE RATIO, R
L-1	'ESB SW' 11+33.89	20.0'	2.0'	3.0'	3:1
L-5, L-6	'ESB NE' 18+94.07	3.0'-5.0'	1.0'	0.5'-1.0'	2:1

- NOTES:
- EXTEND SHOULDER TO TOP OF DITCH.
  - FOR AREAS ADJACENT TO EXISTING CHANNEL, FILL EXISTING CHANNEL WITH NATIVE MATERIAL @ 90% RC.
  - SAWCUT LIMITS TO BE MARKED BY ENGINEER IN THE FIELD.

**BLANKET LINED CHANNEL (T2 BLC)**  
 A \_\_\_\_\_ NTS

**LAYOUT**  
 SCALE : 1" = 20' H, 1" = 5' V

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: **APRIL 28, 2023**

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 DRAWN: KIS  
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 ZONE/ EROSION CONTROL PROJECT

SHEET  
**L-6**  
 9 OF 29  
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ORIGINAL SCALE IS IN INCHES  
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**NOTES:**

- AC PAVEMENT REMOVAL DOES NOT INCLUDE AREA FOR IN PAVEMENT PIPE TRENCH.
- CLASS 2 AGGREGATE BASE QUANTITIES INCLUDE BASE UNDER PAVEMENT AND ROAD SHOULDER ADJACENT TO PAVEMENT REMOVAL.
- CLASS 2 AGGREGATE BASE QUANTITIES FOR CONSTRUCTION ITEM "PAVEMENT LIMITS" ARE FOR THE SHOULDER BASE. HMA AND BASE QUANTITIES FOR THE PAVEMENT REMOVAL AND REPLACEMENT IN THESE AREAS ARE TO BE PAID FOR AS PART OF THE SOUTH TAHOE PUBLIC UTILITY DISTRICT WATER LINE RELOCATION PORTION OF THIS PROJECT.
- STATION VALUES NOT GIVEN FOR ITEMS WITH MULTIPLE LOCATIONS PER SHEET.
- QUANTITY FOR ROCK (60 LB, CLASS III, METHOD A) INCLUDES 6.6 CY FROM ROCK ENERGY DISSIPATOR ON SHEET D-2.
- [N] NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

LAYOUT PLAN SHEET NO.	LAYOUT SHEET UNIT	WOOD RAIL FENCE	ROADWAY EXCAVATION (SEDIMENT BASIN)	DITCH EXCAVATION (BLANKET LINED CHANNEL)	DITCH EXCAVATION (ARTICULATED BLOCK CHANNEL)	DITCH EXCAVATION (ROCK LINED CHANNEL)	DITCH EXCAVATION (ROCK BOWL)	CLASS 2 AGGREGATE BASE	HOT MIX ASPHALT (TYPE A)	REMOVE ASPHALT CONCRETE PAVEMENT	MINOR CONCRETE (INLET APRON)	MINOR CONCRETE (MINOR STRUCTURE) (SPILLWAY)	ROCK (60 LB, CLASS II, METHOD A)	ARTICULATED BLOCK [N]	DESCRIPTION	STATION	LAYOUT SHEET UNIT	LAYOUT PLAN SHEET NO.
		LF	CY	CY	CY	CY	CY	CY	SQFT	SQFT	CY	CY	CY	SQFT				
1	1					42							33		PER DETAIL 2 SHEET C-1	2 LOCATIONS	1	1
	2											2.0	7.1		PER DETAIL 1 SHEET C-1	'ESB-SW' 10+46.57	2	
	3	234													PER DETAIL A SHEET L-1	2 LOCATIONS	3	
	4		596												PER DETAIL B SHEET L-1	'ESB-SW' 10+78.80	4	
	5												7.9		PER DETAIL 3 SHEET C-1	'ESB-SW' 11+13.13-11+24.39	5	
	6			218											PER DETAIL A SHEET L-6	'ESB-SW' 11+33.89-12+28.11	6	
	7						400							375	PER DETAIL A SHEET L-5, 22'X12'	'ESB-SW' 12+34.91	7	
	8							0.5	20		0.8				PER DETAIL A SHEET L-2	'ESB-SW' 12+68.74	8	
	9							2.2	136						PER DETAIL B SHEET D-2		9	
2	1							4.0	160		3.3				PER DETAIL A SHEET L-2	4 LOCATIONS	1	2
	2							8.3	455						PER DETAIL B SHEET D-2		2	
3	1							1.5	60		2.4				PER DETAIL A SHEET L-2	3 LOCATIONS	1	3
	2							8.9	685	586					PER DETAIL B SHEET L-2, B SHEET D-2		2	
	6							2.6	207	207					PER DETAIL A SHEET L-3	'ESB-SW' 21+14.25-2.56RT	6	
	7				19									519	PER DETAIL B SHEET L-3	'ESB-NE' 11+13.64-12+00	7	
	8							2.0	82						3" HMA OVER 8" BASE	3 LOCATIONS	8	
4	9							6.4							PER DETAIL B SHEET L-2		9	4
	1							35							PER DETAIL B SHEET L-2		1	
	3			31											PER DETAIL A SHEET L-4	4 LOCATIONS	3	
	4							8.1	659	659					PER DETAIL A SHEET L-3	3 LOCATIONS	4	
5	5				63								1,451		PER DETAIL B SHEET L-3	'ESB-NE' 12+00-14+41.79	5	5
	1							27	193	455					PER DETAIL B SHEET L-2		1	
	3			0.9											PER DETAIL A SHEET L-4	'ESB-NE' 18+00-18+34.04	3	
	4			38											PER DETAIL A SHEET L-6	'ESB-NE' 18+94.07-22+00	4	
	5						6.0						5.0		PER DETAIL A SHEET L-5, 8' DIAMETER	2 LOCATIONS	5	
	6							3.5							PER DETAIL B SHEET L-2		6	
6	1							15		839					PER DETAIL B SHEET L-2		1	6
	2			24											PER DETAIL A SHEET L-6	'ESB-NE' 22+00-24+61.24	2	
	3					2.0									PER DETAIL A SHEET L-5	'ESB-NE' 24+65.24	3	
TOTAL		234	596	312	82	42	408	125	2,657	2,746	6.5	2.0	428	1,970			TOTAL	

FOR REDUCED PLANS  
 REVISION  
 NUMBER DATE DESCRIPTION BY




PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 APRIL 28, 2023  
 DATE:

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B



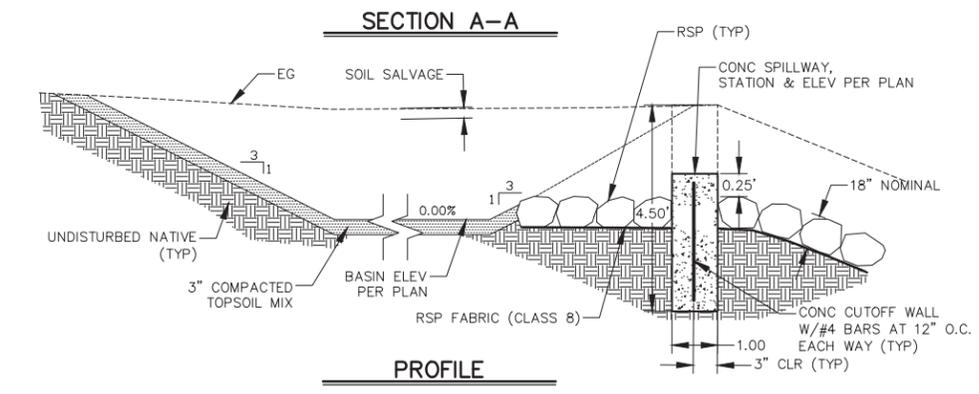
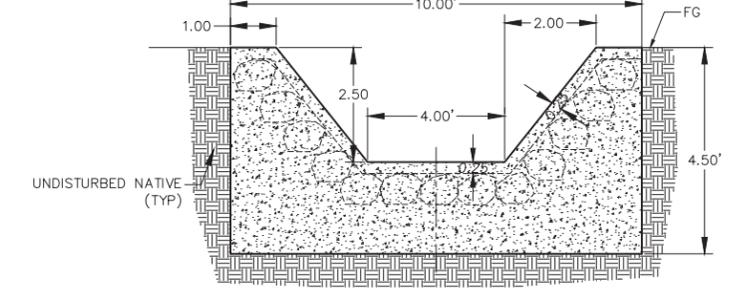
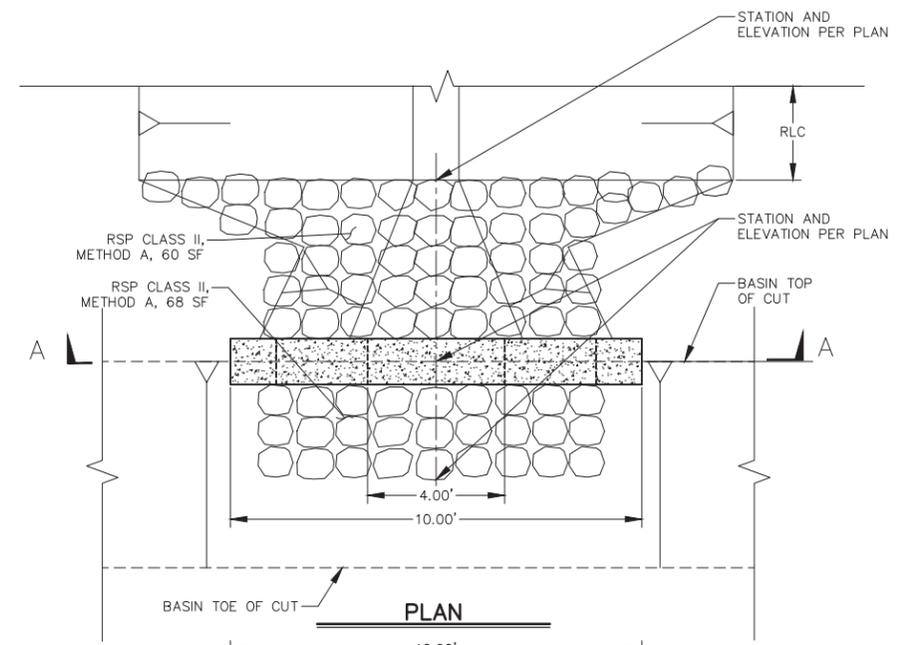
**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

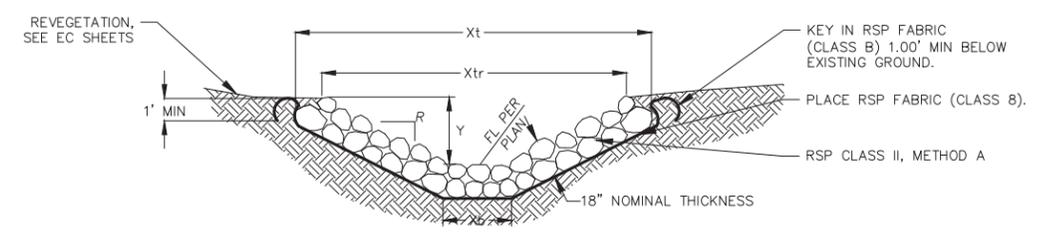
SHEET  
**L-7**  
 10 OF 29  
 W.O. No.  
**36107007**

LAYOUT QUANTITIES  
SCALE : NA

ORIGINAL SCALE IS IN INCHES  
 Drawing name: \\C:\Data\5\TD-SLT-Engineering\CIVIL\_3D\_PROJECTS\95179\Engineering\Phase2\_MPLAN\MEYERS2\_C.dwg Layout Tab: C-1  
 FOR REDUCED PLANS



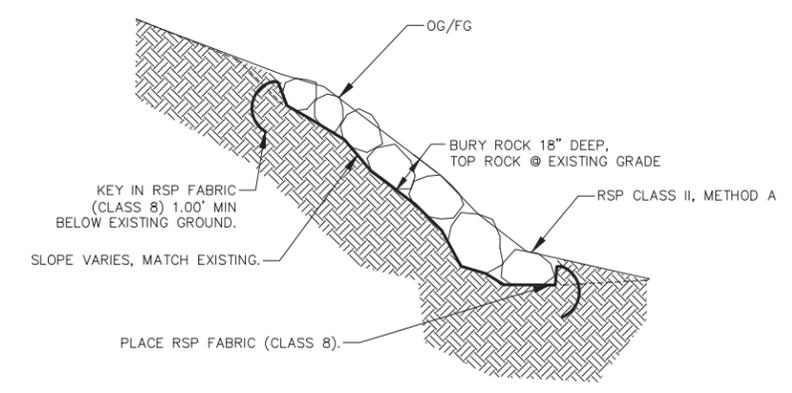
**1 CONCRETE SPILLWAY**  
NTS



SHEET	LOCATON AND STATION	TOP WIDTH, Xt (EXCAVATION)	TOP WIDTH, Xtr (ROCK)	WIDTH, Xb (EXCAVATION)	DEPTH, Y	SLOPE RATIO, R
L-1	USFS BASIN 10+11.53	2.0 - 19.0	2.0 - 17.0	2.0	0.0 - 2.5	3:1
L-1	USFS BASIN 11+24.39	22.0	20.0	2.0	3.0	3:1

- NOTES:
- "Y" DEPICTS MIN REQ'D DEPTH OF CHANNEL. FINISHED TOP WIDTH AND SIDE SLOPE HEIGHT MAY VARY DEPENDING ON EXISTING TERRAIN.
  - SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.

**2 ROCK LINED CHANNEL (RLC)**  
NTS



**3 ROCK SLOPE PROTECTION (RSP)**  
NTS

**CONSTRUCTION DETAILS**  
SCALE : AS SHOWN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

*[Signature]*

REGISTERED CIVIL ENGINEER

DATE: APRIL 28, 2023

DESIGNED: DSP  
DRAWN: KIS  
CHECKED: DSP  
DATE: 1/2023  
ROAD NUMBER: NA

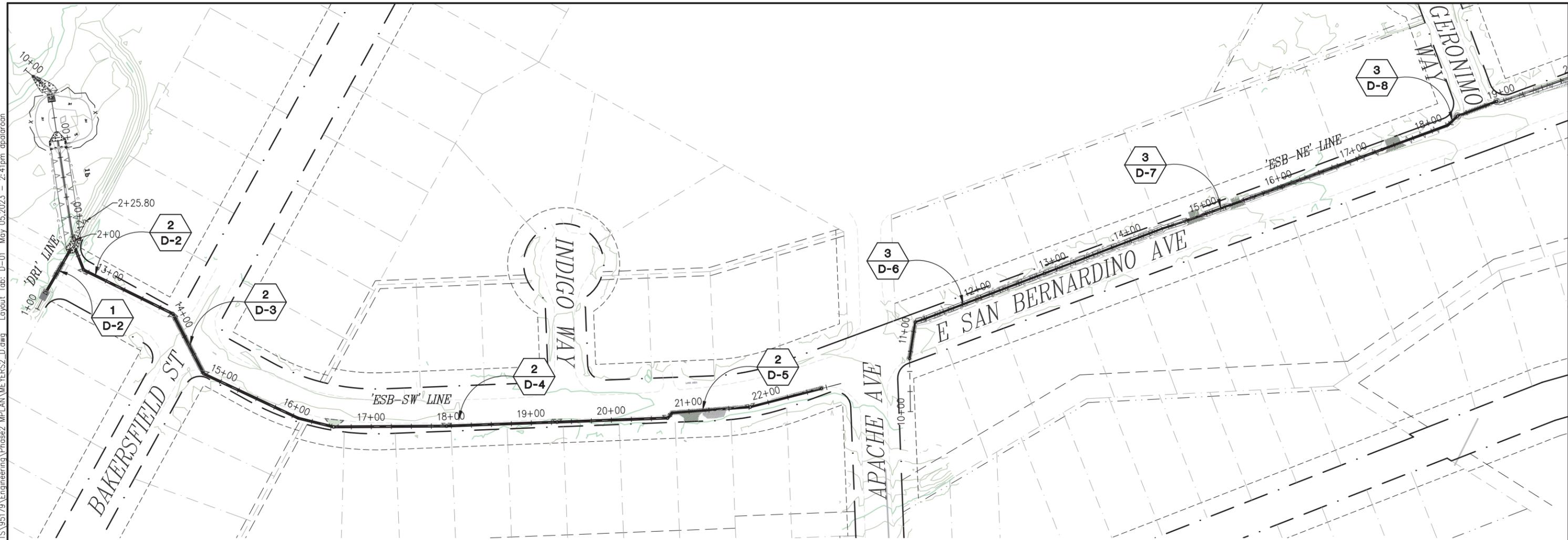


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

SHEET  
**C-1**  
11 OF 29  
W.O. No.  
**36107007**

ORIGINAL SCALE IS IN INCHES  
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**LEGEND**

- STORM DRAINAGE SYSTEM NUMBER
- DETAIL SHEET NUMBER

**GENERAL NOTES:**

1. SEE SHEET TR-1 FOR TREE REMOVAL.
2. SEE DETAIL B SHEET D-2 FOR PIPE TRENCH DETAILS.
3. SEE L SHEETS FOR ITEMS NOT DETAILED ON D SHEETS.
4. ALL DISTURBED SOIL SHALL BE REVEGETATED PER THE EC SHEETS.
5. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES.



FOR REDUCED PLANS  
 0 1 2

**DRAINAGE LAYOUT  
SCALE : 1" = 60'**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE: APRIL 28, 2023

DESIGNED: DSP      DRAWN: KIS  
 CHECKED: DSP      DATE: 1/2023  
 ROAD NUMBER: 2252B

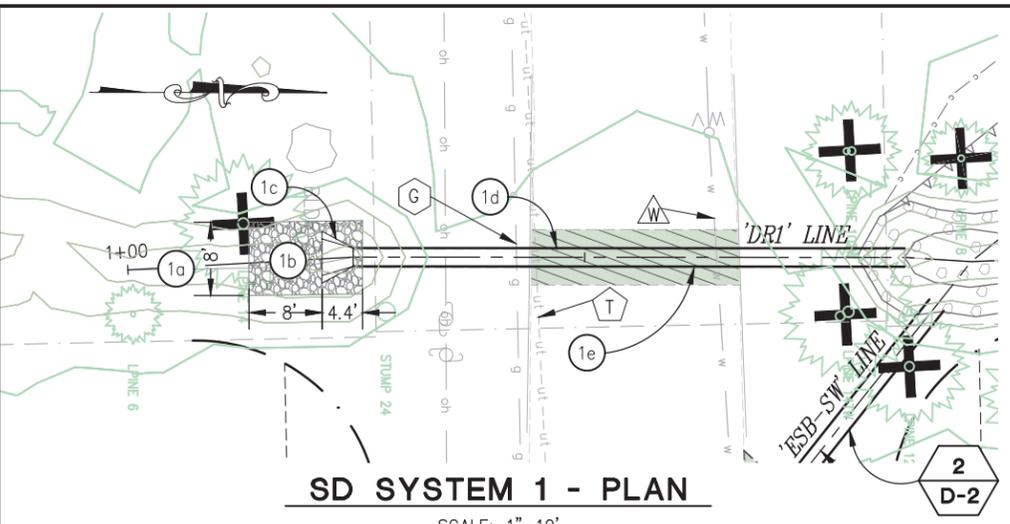


**COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT  
 ZONE/ EROSION CONTROL PROJECT**

SHEET  
**D-1**  
 12 OF 29  
 W.O. No.  
**36107007**

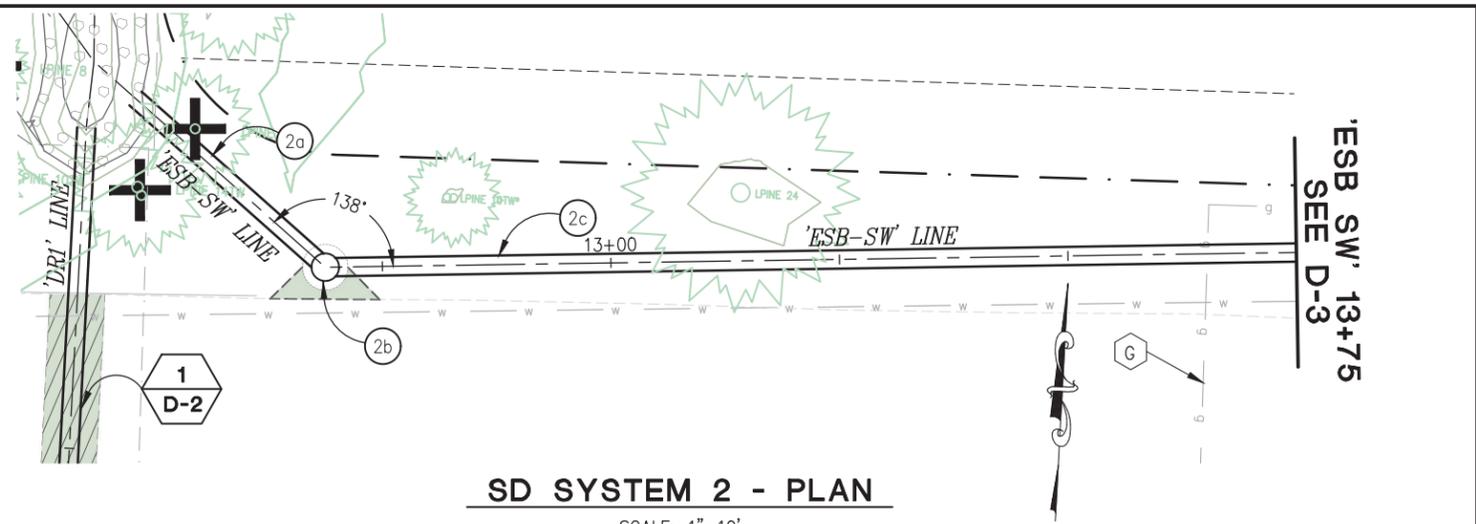
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 FOR REDUCED PLANS



**SD SYSTEM 1 - PLAN**

SCALE: 1"=10'

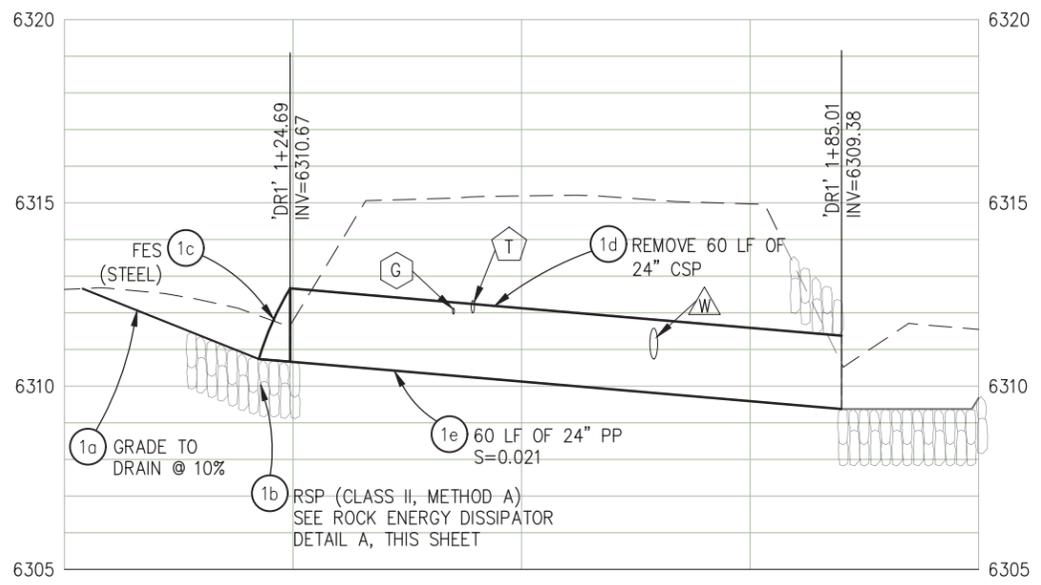
- LEGEND:**
- W WATER LINE
  - S SEWER LINE
  - T TELEPHONE LINE
  - G GAS LINE



**SD SYSTEM 2 - PLAN**

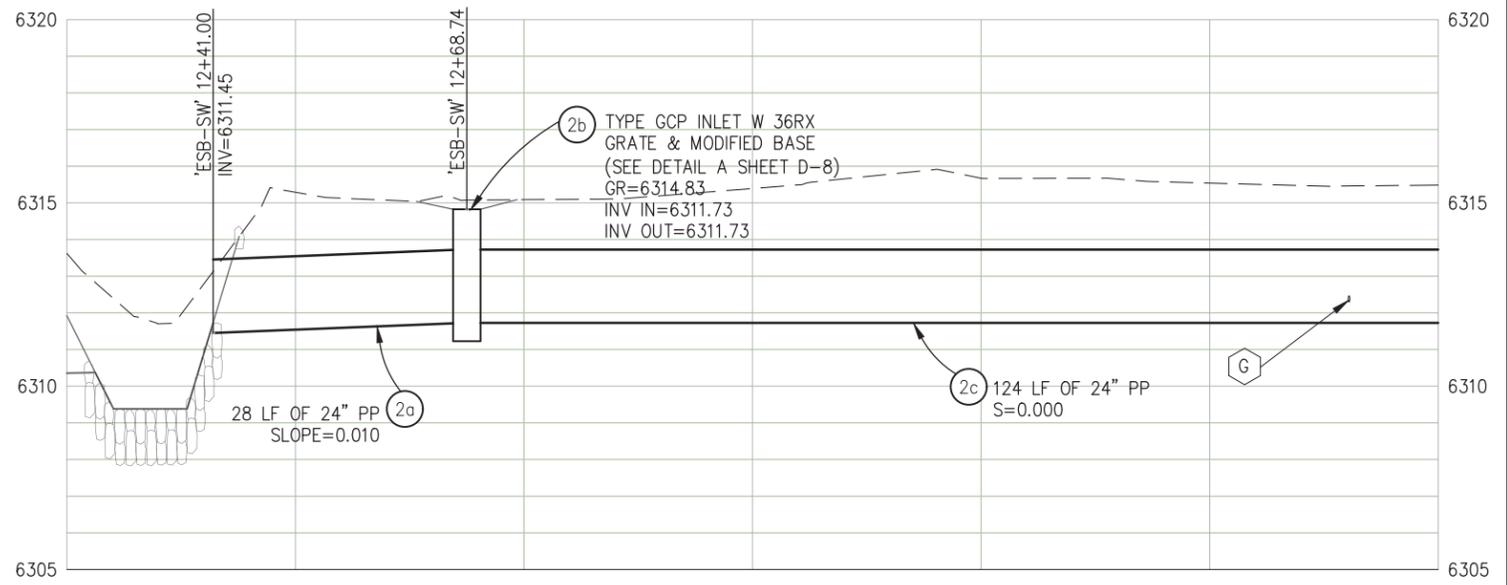
SCALE: 1"=10'

**ESB SW' 13+75**  
**SEE D-3**



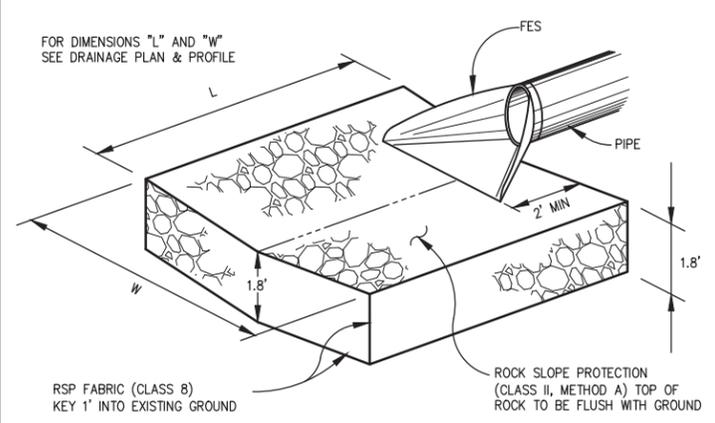
**SD SYSTEM 1 - PROFILE**

SCALE: 1"=10' H, 1"=2.5' V

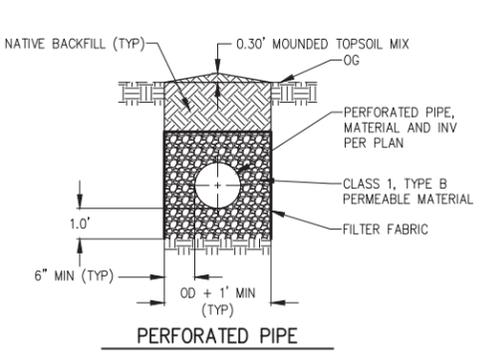
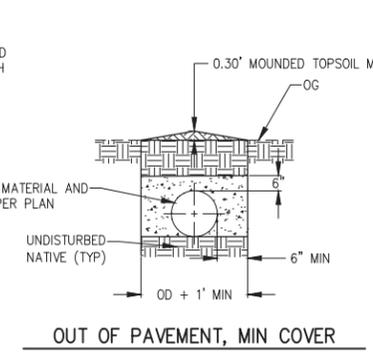
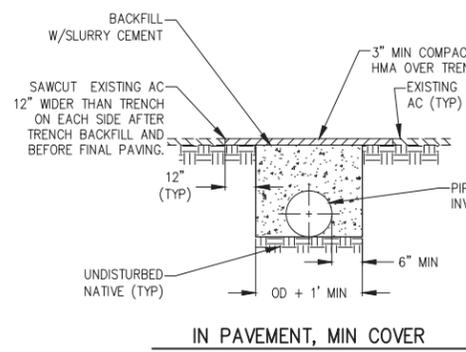
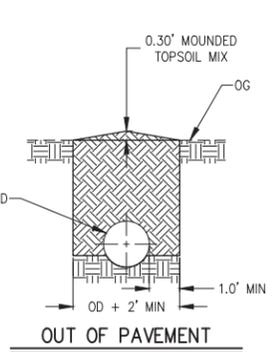
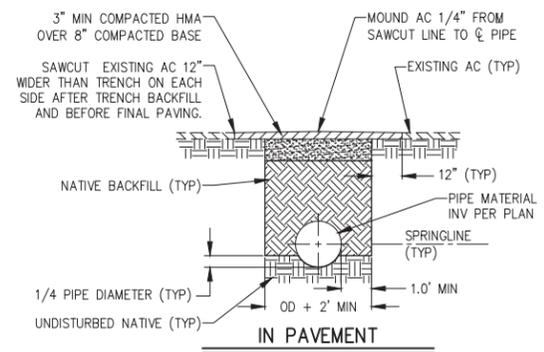


**SD SYSTEM 2 - PROFILE**

SCALE: 1"=10' H, 1"=2.5' V



**A ROCK ENERGY DISSIPATOR (RED)**  
NTS



**B PIPE TRENCH**  
NTS

- NOTES:**
- FOR REMOVAL OF EXISTING PIPE IN PAVEMENT, SAWCUT THE EXISTING AC PAVEMENT 12" WIDER THAN THE TRENCH ON EACH SIDE AND EXCAVATE AS REQUIRED TO ACCOMMODATE THE NEW PAVEMENT SECTION.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 APRIL 28, 2023  
 DATE:

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B

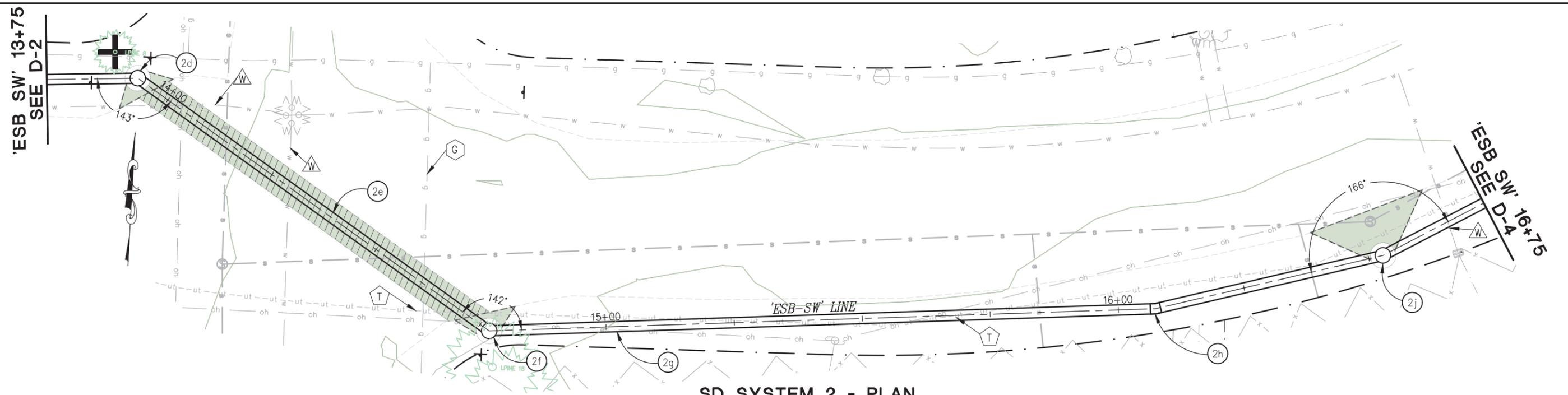


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

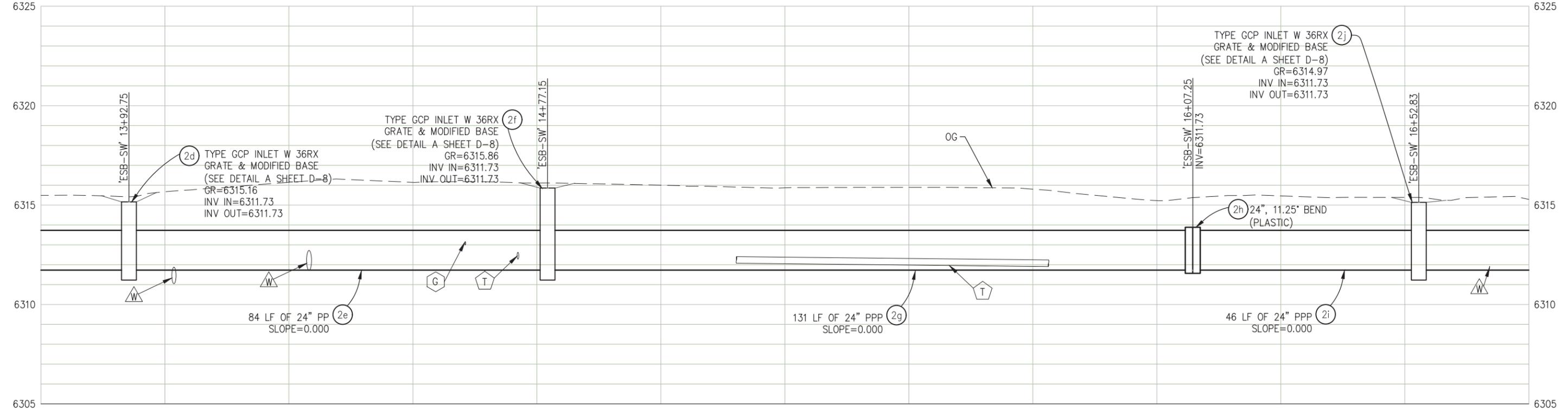
**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

SHEET  
**D-2**  
 13 OF 29  
 W.O. No.  
**36107007**

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 Layout Tab: D-03 May 05, 2023 2:41pm dpatarcom



**SD SYSTEM 2 - PLAN**  
SCALE: 1"=10'



**SD SYSTEM 2 - PROFILE**  
SCALE: 1"=10' H, 1"=2.5' V

FOR REDUCED PLANS  
 2  
 1  
 0

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: APRIL 28, 2023

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B



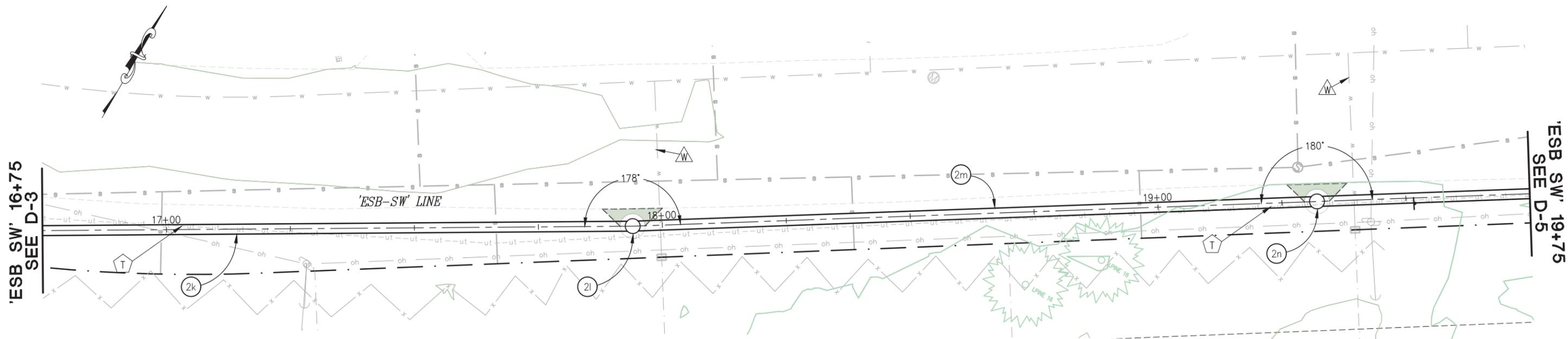
**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

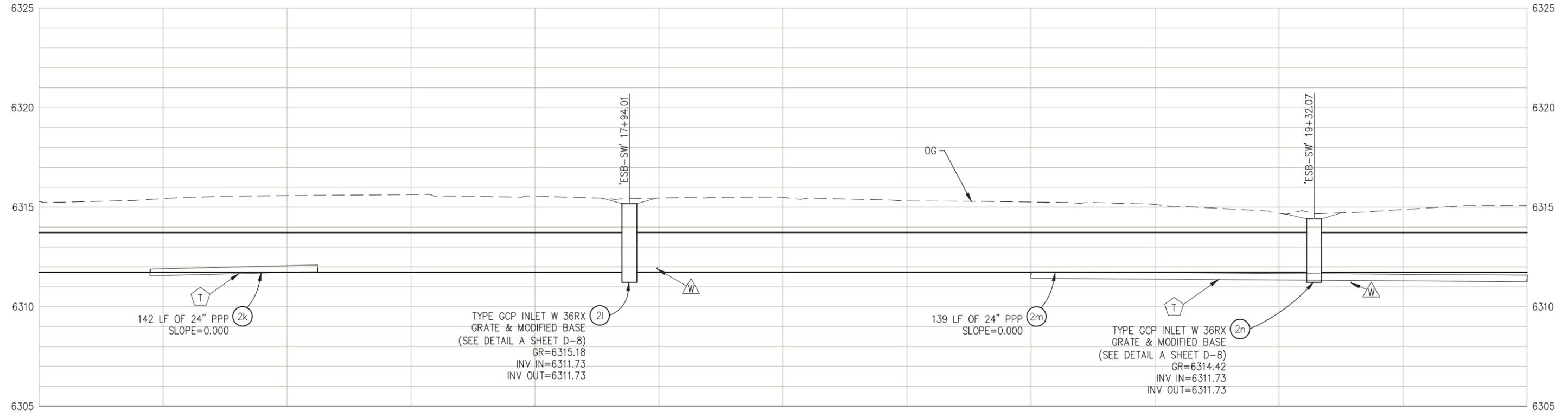
**DRAINAGE**  
**SCALE : AS SHOWN**

SHEET  
**D-3**  
 14 OF 29  
 W.O. No.  
**36107007**

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**SD SYSTEM 2 - PLAN**  
SCALE: 1"=10'



**SD SYSTEM 2 - PROFILE**  
SCALE: 1"=10' H, 1"=2.5' V

FOR REDUCED PLANS  
 2  
 1  
 0

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 APRIL 28, 2023  
 DATE:

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B



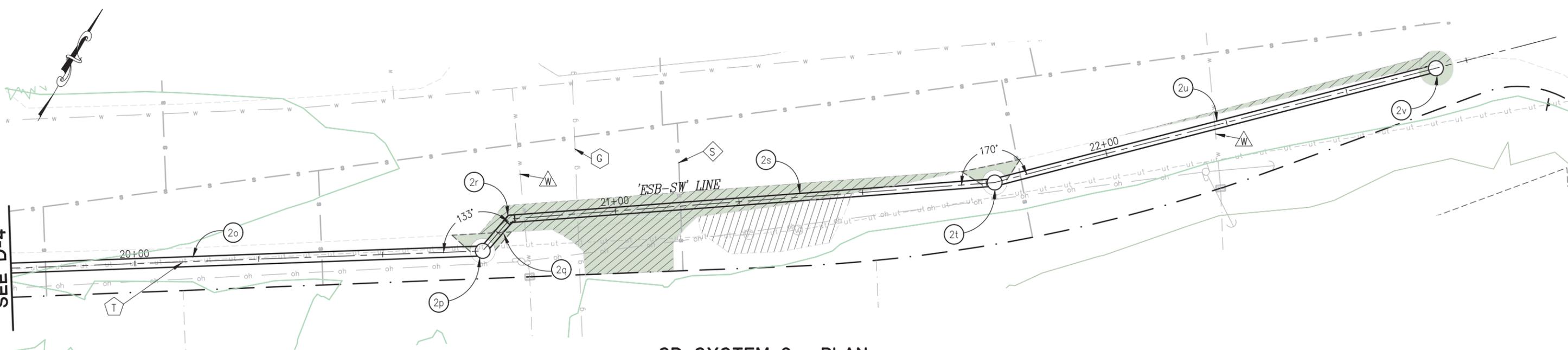
**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

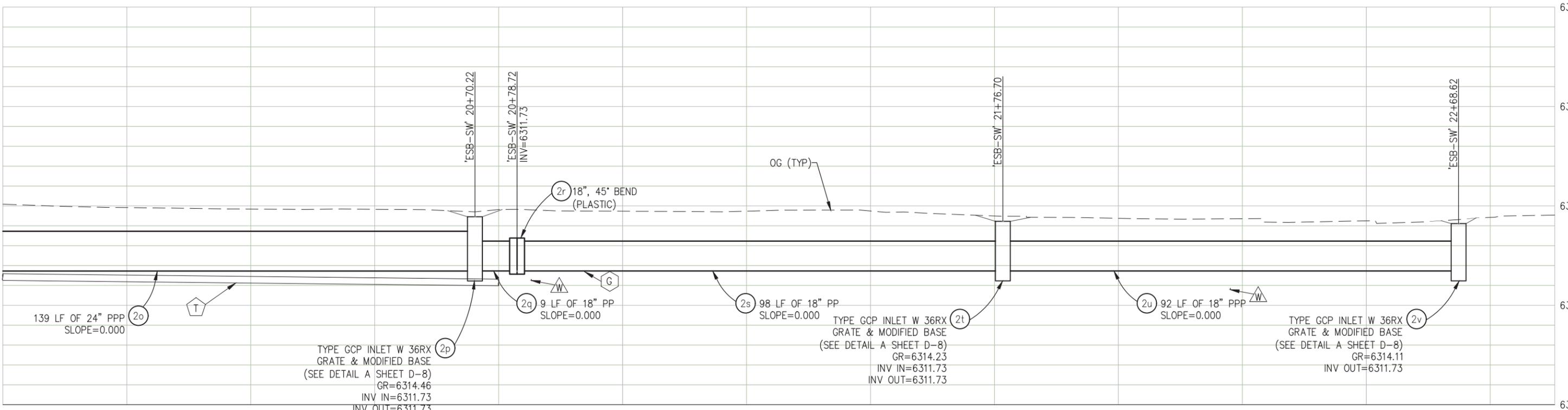
**DRAINAGE**  
**SCALE : AS SHOWN**

SHEET  
**D-4**  
 15 OF 29  
 W.O. No.  
**36107007**

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**SD SYSTEM 2 - PLAN**  
 SCALE: 1"=10'



**SD SYSTEM 2 - PROFILE**  
 SCALE: 1"=10' H, 1"=2.5' V

**GENERAL NOTES:**

1. SEE DETAIL B SHEET D-1 FOR PIPE TRENCH DETAILS.
2. SEE L SHEETS FOR ITEMS NOT DETAILED ON D SHEETS.
3. ALL DISTURBED SOIL SHALL BE REVEGETATED PER THE EC SHEETS.
4. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: **APRIL 28, 2023**

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B



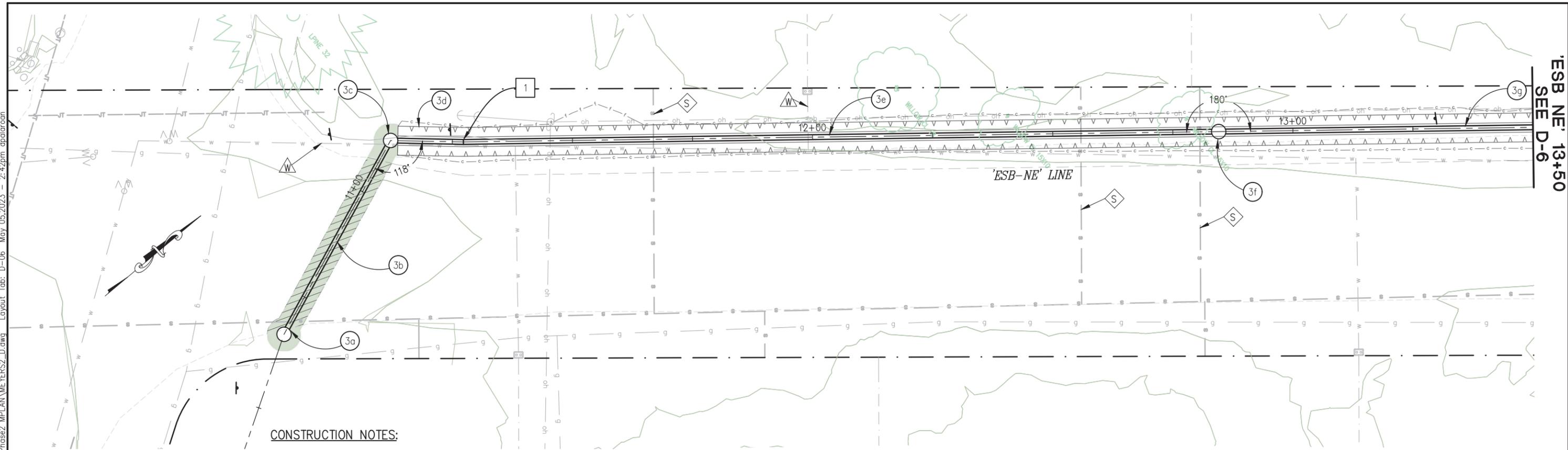
**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

**DRAINAGE**  
**SCALE : AS SHOWN**

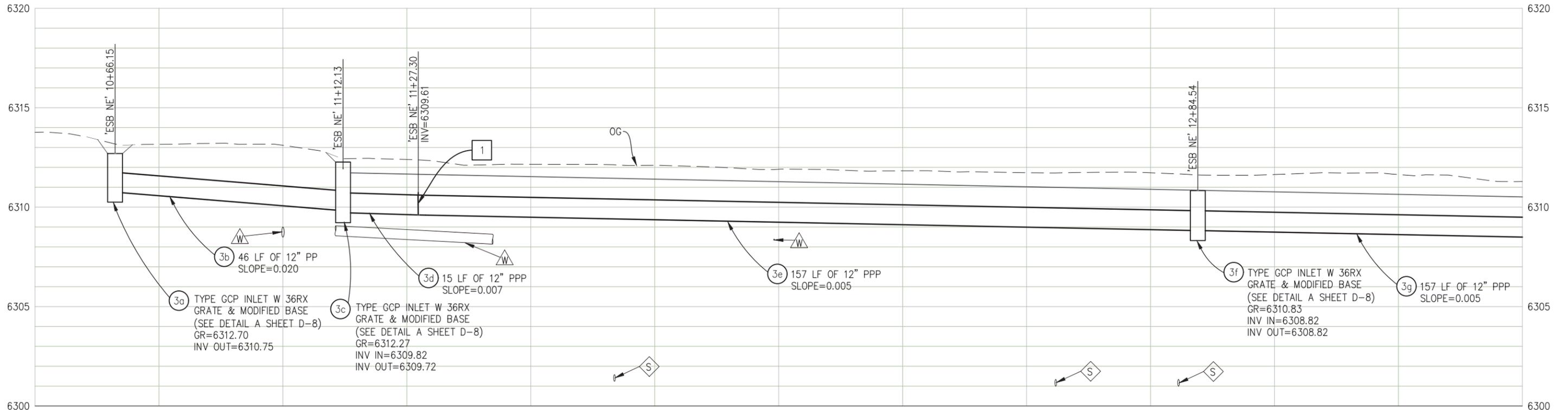
SHEET  
**D-5**  
 16 OF 29  
 W.O. No.  
**36107007**

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 Layout Tab: D-06 May 05, 2023 - 2:42pm dplarc@com



**CONSTRUCTION NOTES:**  
 1 — 2° DEFLECTION ANGLE AT PIPE JOINT. INV=6309.61

**SD SYSTEM 3 - PLAN**  
 SCALE: 1"=10'



**SD SYSTEM 3 - PROFILE**  
 SCALE: 1"=10' H, 1"=2.5' V

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: **APRIL 28, 2023**

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B

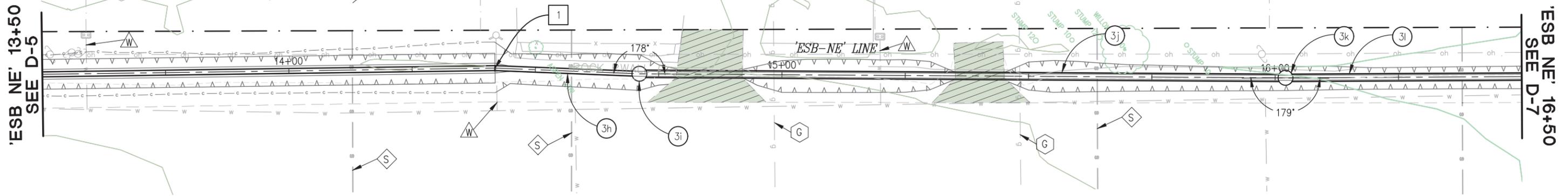


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

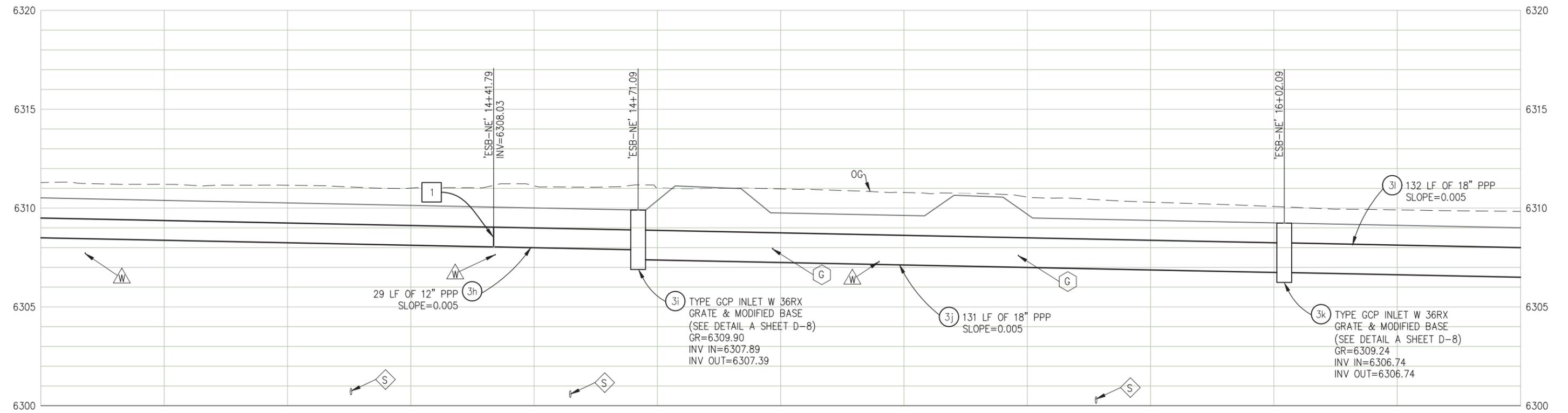
**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

SHEET  
**D-6**  
 17 OF 29  
 W.O. No.  
**36107007**

ORIGINAL SCALE IS IN INCHES  
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**SD SYSTEM 3 - PLAN**  
SCALE: 1"=10'



**SD SYSTEM 3 - PROFILE**  
SCALE: 1"=10' H, 1"=2.5' V

**CONSTRUCTION NOTES:**

- 1 — 5° DEFLECTION ANGLE AT PIPE JOINT. INV=6308.03

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: APRIL 28, 2023

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B



**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

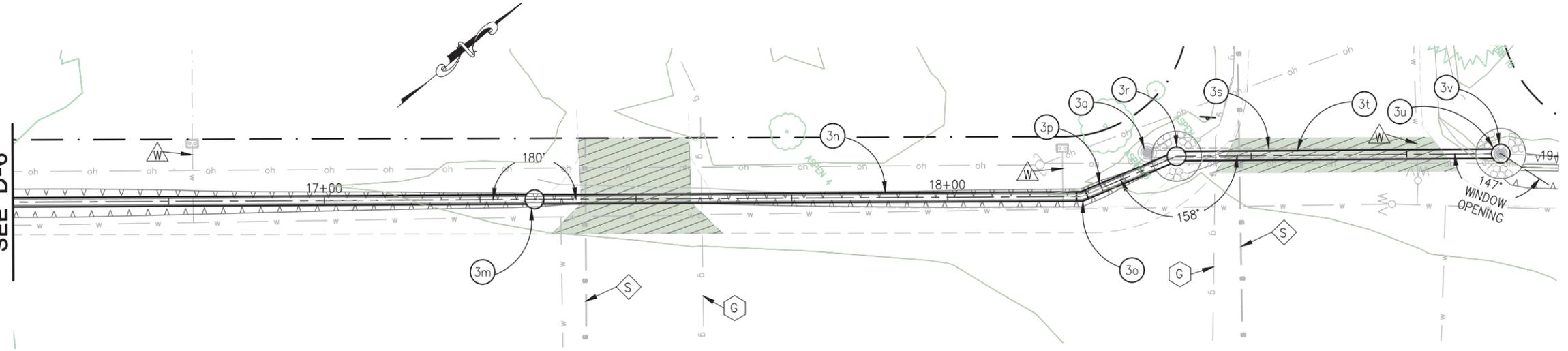
**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

**DRAINAGE**  
**SCALE : AS SHOWN**

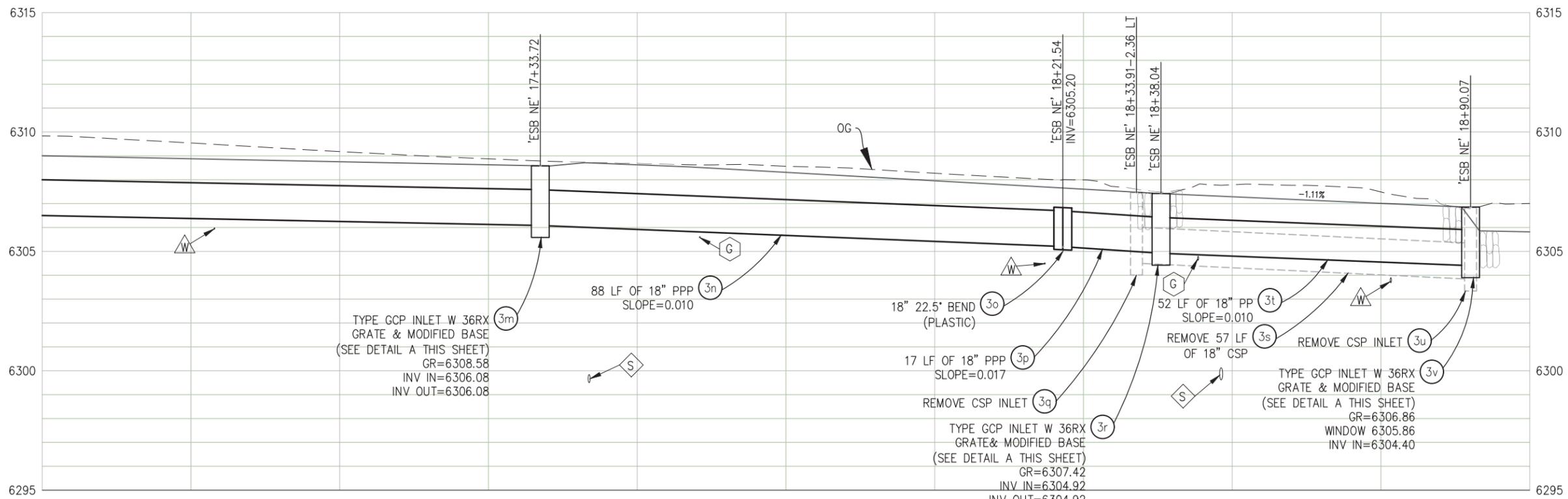
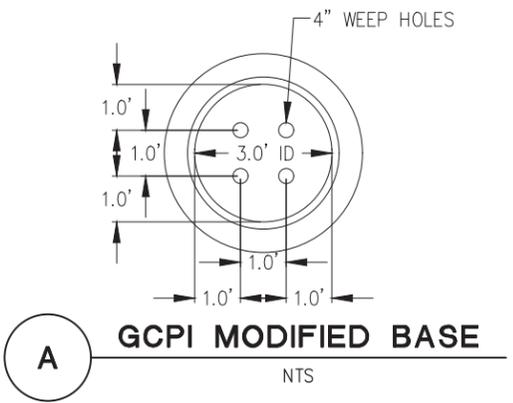
SHEET  
**D-7**  
 18 OF 29  
 W.O. No.  
**36107007**

ORIGINAL SCALE IS IN INCHES  
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 Layout Tab: D-08\_May 05, 2023 2:42pm dpataroon

'ESB NE' 16+50  
SEE D-6



**SD SYSTEM 3 - PLAN**  
SCALE: 1"=10'



**SD SYSTEM 3 - PROFILE**  
SCALE: 1"=10' H, 1"=2.5' V

FOR REDUCED PLANS  
 2  
 1  
 0

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: APRIL 28, 2023

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B



**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

**DRAINAGE**  
**SCALE : AS SHOWN**

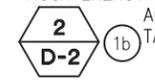
SHEET  
**D-8**  
19 OF 29  
W.O. No.  
**36107007**

ORIGINAL SCALE IS IN INCHES  
Drawing name: \\CAD\data\1D-SIT-Engineering\Civil\_3D\_PROJECTS\95179\Engineering\Phase2\_MPLAN\_MEYERS2\_D.dwg Layout Tab: D-09 May 05, 2023 2:42pm dpataroon

FOR REDUCED PLANS  
2  
1  
0

**NOTES:**

- [N] NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
- 6.6 CY RSP (60 LB, CLASS II, METHOD A) OF ROCK ENERGY DISSIPATOR ON SHEET D-2, IS ACCOUNTED FOR IN QUANTITY TABLE ON SHEET L-9.



DRAINAGE PLAN SHEET NO.	DRAINAGE SYSTEM NO.	DRAINAGE UNIT	36" GCPI W 36RX GRATE [N]	H INLET DEPTH	12" PPP (PERFORATED PLASTIC PIPE)	18" PPP (PERFORATED PLASTIC PIPE)	24" PPP (PERFORATED PLASTIC PIPE)	12" PP (PLASTIC PIPE)	18" PP (PLASTIC PIPE)	24" PP (PLASTIC PIPE)	18" PP 22.5° BEND (PLASTIC PIPE) [N]	18" PP 45° BEND (PLASTIC PIPE) [N]	24" PP 11.25° BEND (PLASTIC PIPE) [N]	24" FES (STEEL)	RSP FABRIC (CLASS 8) [N]	PERMEABLE MATERIAL (CLASS 1, TYPE B) [N]	MINOR GRADING [N]	REMOVE 24" CMPI [N]	REMOVE 18" CMP [N]	REMOVE 24" CMP [N]	DESCRIPTION	STATION	DRAINAGE UNIT	DRAINAGE SYSTEM NO.	DRAINAGE PLAN SHEET NO.		
			EA	FT	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	SY	CY	CY	EA	LF	LF							
D-2	1	a															4.1								1		
		b													12.7												
		c													1												
		d																									
		e									60											61	S=0.021, PER DETAIL B, SHT D-2				
D-2	2	a								28												S=0.000, PER DETAIL B, SHT D-2					
		b	1	3.1																							
		c									124												S=0.000, PER DETAIL B, SHT D-2				
		d																									
D-3	2	e																									
		f	1	3.4																							
		g						131									23.9						S=0.000, PER DETAIL B, SHT D-2				
		h												1													
		i						46									8.4						S=0.000, PER DETAIL B, SHT D-2				
		j	1	3.2																							
		k						142									25.9							S=0.000, PER DETAIL B, SHT D-2			
		l	1	3.5													25.4							S=0.000, PER DETAIL B, SHT D-2			
		m						139																			
		n	1	2.7																							
D-5	2	o					139									25.4						S=0.000, PER DETAIL B, SHT D-2					
		p	1	2.7																							
		q							9														S=0.000, PER DETAIL B, SHT D-2				
		r										1															
		s								98														S=0.000, PER DETAIL B, SHT D-2			
		t	1	2.5													5.7							S=0.000, PER DETAIL B, SHT D-2			
D-6	3	u				92																					
		v	1	2.5																							
		a	1	2.0					46																		
		b																									
		c	1	2.6																							
		d				15											2.7							S=0.007, PER DETAIL A, SHT L-3			
		e				157											18.7							S=0.005, PER DETAIL A, SHT L-3			
D-7	3	f	1	2.0																							
		g				157											18.7										
		h				29											4.0										
		i	1	2.5																							
D-8	3	j				131										20.5							S=0.005, PER DETAIL A, SHT L-4				
		k	1	2.5																							
		l					132										20.7										
		m	1	2.5																							
		n					88										11.9							S=0.010, PER DETAIL A, SHT L-4			
		o										1															
		p					17										2.7							S=0.017, PER DETAIL A, SHT L-4			
		q																									
		r	1	2.5																							
		s																									
D-8	3	t							52																		
		u																									
		v	1	2.5																							
TOTAL			17	47	358	460	597	46	159	296	1	1	1	1	13	215	4.1	2	57	61				TOTAL			

**DRAINAGE QUANTITIES SCALE : NA**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DATE: **APRIL 28, 2023**

DESIGNED: DSP  
DRAWN: KIS  
CHECKED: DSP  
DATE: 1/2023  
ROAD NUMBER: 2252B

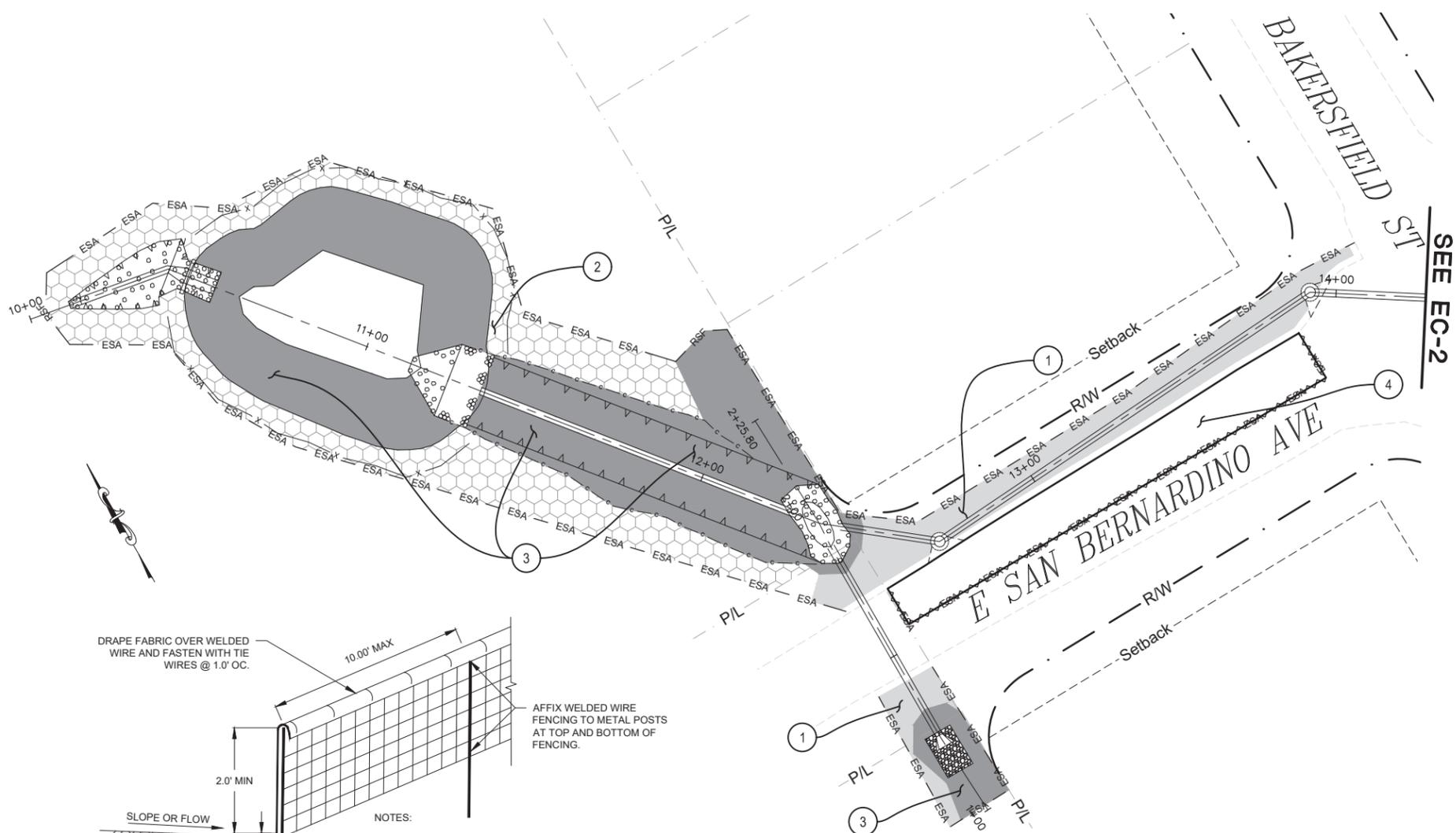


**COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT ZONE/ EROSION CONTROL PROJECT**

SHEET **D-9**  
20 OF 29  
W.O. No. **36107007**

ORIGINAL SCALE: 1/8" = 1'-0" INCHES  
 Drawing Name: I:\CADD\data\51D-SL1-E-Engineering\CIVIL\_3D\_PROJECTS\95179\Engineering\Phase2\MPLAN\MEYERS2\_EC.dwg Layout Tab: EC-1 May 05, 2023 - 2:42pm dpalaroan



**LEGEND**

- ESA - TEMPORARY HIGH VISIBILITY FENCING FOR ENVIRONMENTALLY SENSITIVE AREAS (TYPE ESA) PER CALTRANS STANDARD PLAN T65.
- RSF - TEMPORARY REINFORCED SILT FENCE. SEE DETAIL A THIS SHEET.
- ~ ~ ~ FIBER ROLL
- [ ] STAGING AND STORAGE AREAS.
- [ ] TYPE 1 REVEGETATION.
- [ ] TYPE 2 REVEGETATION.
- [ ] TYPE 3 REVEGETATION.

**EROSION CONTROL CONSTRUCTION NOTES:**

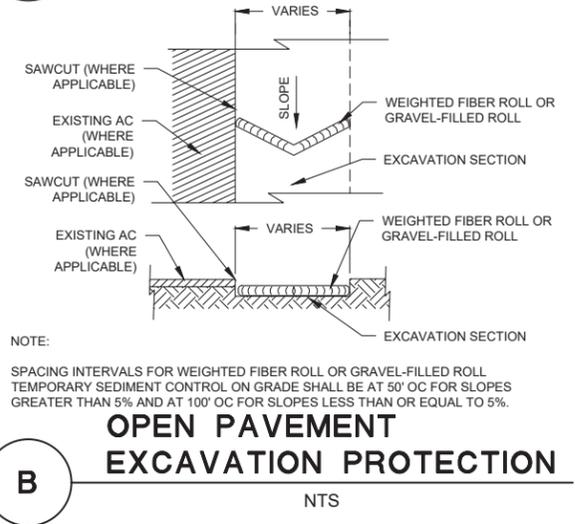
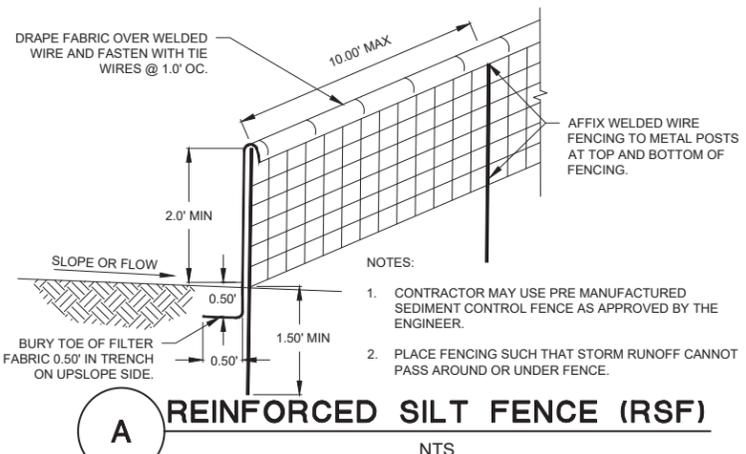
- ① - TYPE 1 - CONTRACTOR TO PLACE 2" COMPACTED TOPSOIL MIX, COUNTY TO ADD SEED, CONTRACTOR TO APPLY 1" MULCH, CONTRACTOR TO APPLY TACKIFIER. FOR AREAS ADJACENT TO ROAD SHOULDERING, PIPE INSTALLATION, DISTURBED AREAS ADJACENT TO IMPROVEMENTS, AND GRADE TO DRAIN LOCATIONS, UNLESS NOTED OTHERWISE.
- ② - TYPE 2 - COUNTY ADDS SEED, CONTRACTOR APPLIES 1" MULCH; CONTRACTOR APPLIES TACKIFIER.
- ③ - TYPE 3 - CONTRACTOR TO PLACE 3" COMPACTED TOPSOIL MIX ON BASIN BERM TOPS AND SLOPES AND CHANNEL SIDES, COUNTY TO PLACE SEED, CONTRACTOR TO PLACE RECP (BLANKET) ON BASIN AND CHANNEL SIDES, CONTRACTOR TO APPLY TACKIFIER. FOR AREAS ASSOCIATED WITH BASIN SIDES, CHANNEL, AND THE SLOPES ABOVE THE CHANNEL.
- ④ - STAGING AND STORAGE AREAS. CONTRACTOR TO MAINTAIN ACCESS TO TROUGH TRAFFIC ON ADJACENT ROADWAY.

**EROSION CONTROL GENERAL NOTES:**

1. MULCH - TO BE APPLIED BY HAND OR WITH BLOWER EQUIPMENT AND NOT PLACED IN CHANNELS OR EXISTING CHANNELS.
2. HUMUS - TO BE BLENDED WITH SALVAGED SOIL.
3. TOPSOIL MIX - A BLEND OF SOIL SALVAGED FROM EXCAVATED AREAS (3 PARTS) WITH HUMUS (1 PART).
4. TACKIFIER - CONTRACTOR TO APPLY WOOD-CELLULOSE FIBER MULCH/TACKIFIER OVER AREAS THAT RECEIVE MULCH.
5. ALL REVEGETATION AREAS DESCRIBED ABOVE WILL BE IRRIGATED WITH A WATER TRUCK BY THE COUNTY FOR TWO YEARS FOLLOWING INSTALLATION TO ENSURE OPTIMUM VEGETATION SURVIVAL.
6. FOR TEMPORARY OPEN CHANNEL EXCAVATION PROTECTION, USE CALTRANS STANDARD PLAN T55 AS REQUIRED.
7. FOR TEMPORARY OPEN PAVEMENT EXCAVATION PROTECTION, USE DETAIL B THIS SHEET AS REQUIRED.
8. FOR TEMPORARY INLET PROTECTION USE CALTRANS STANDARD PLAN T61 AS REQUIRED.

**EROSION CONTROL QUANTITIES:**

EROSION CONTROL SHEET NO.	REVEGETATION (TYPE 1)	REVEGETATION (TYPE 2)	REVEGETATION (TYPE 3)	TEMPORARY FENCING (RSF)	TEMPORARY FENCING (ESA)	WEIGHTED FIBER ROLL	STAGING AND STORAGE
	SF	SF	SF	FT	FT	FT	SF
EC-1	1,945	4,244	6,546	41	931	161	1,772
EC-2	5,742	-	-	-	959	182	4,334
EC-3	9,103	-	3,710	-	1,579	-	-
<b>TOTAL</b>	<b>16,790</b>	<b>4,244</b>	<b>10,256</b>	<b>41</b>	<b>3,469</b>	<b>343</b>	<b>6,106</b>



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: **APRIL 28, 2023**

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B

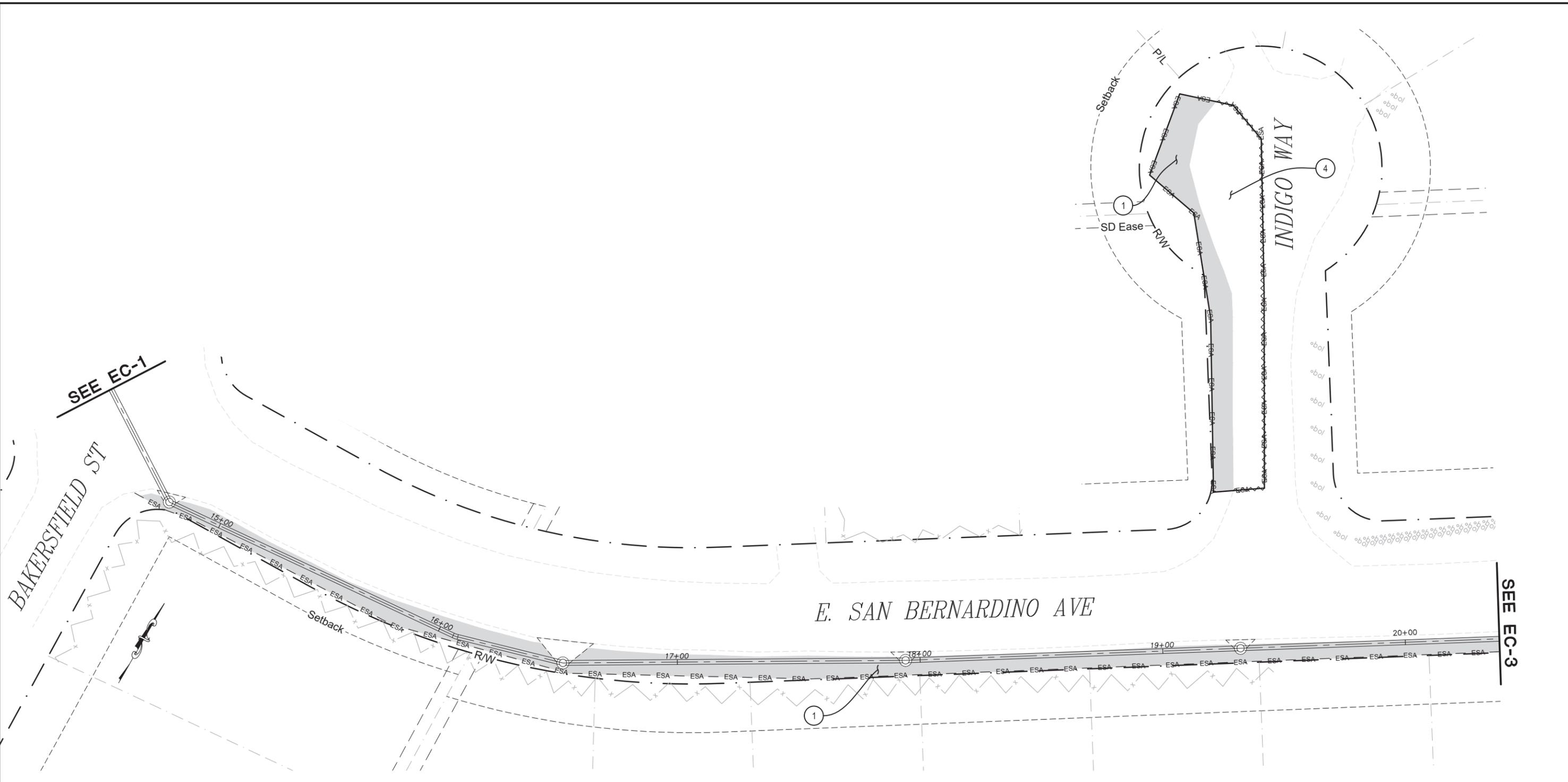


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

SHEET  
**EC-1**  
 21 OF 29  
 W.O. No. 36107007

ORIGINAL SCALE: 1/8" = 1' IN INCHES  
 Drawing name: \\C:\Data\51\T-Engineering\CIVIL\_3D PROJECTS\195179\Engineering\Phase2\MP\PLAN\MEYERS2\_EC.dwg Layout Tab: EC-2 May 05, 2023 - 2:42pm dpalaroan



FOR REDUCED PLANS  
 2  
 1  
 0

EROSION CONTROL  
 SCALE : 1" = 20'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE: APRIL 28, 2023

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B

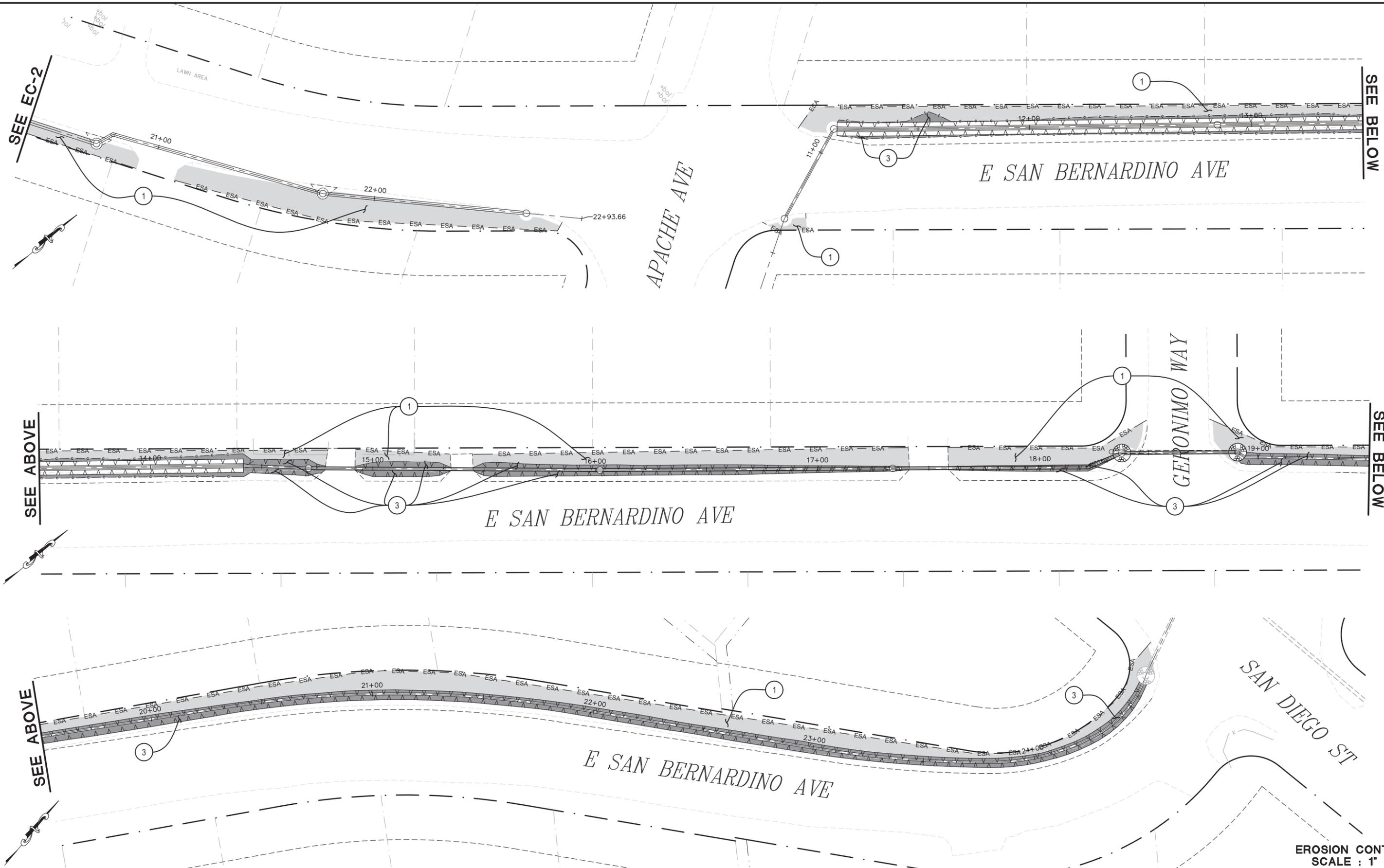


COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION

MEYERS STREAM ENVIRONMENT  
 ZONE/ EROSION CONTROL PROJECT

SHEET  
**EC-2**  
 22 OF 29  
 W.O. No. 36107007

ORIGINAL SCALE: 1" = 20'. FOR REDUCED PLANS: 1" = 40'. DRAWING NAME: I:\CADD\DATA5\TDS\SLT-Engineering\CIVIL\_3D\PROJECTS\95179\Engineering\Phase2\MP\PLAN\MEYERS2\_EC.dwg Layout Tab: EC-3 May 05, 2023 - 2:42pm dpalaroan



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: APRIL 28, 2023

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B



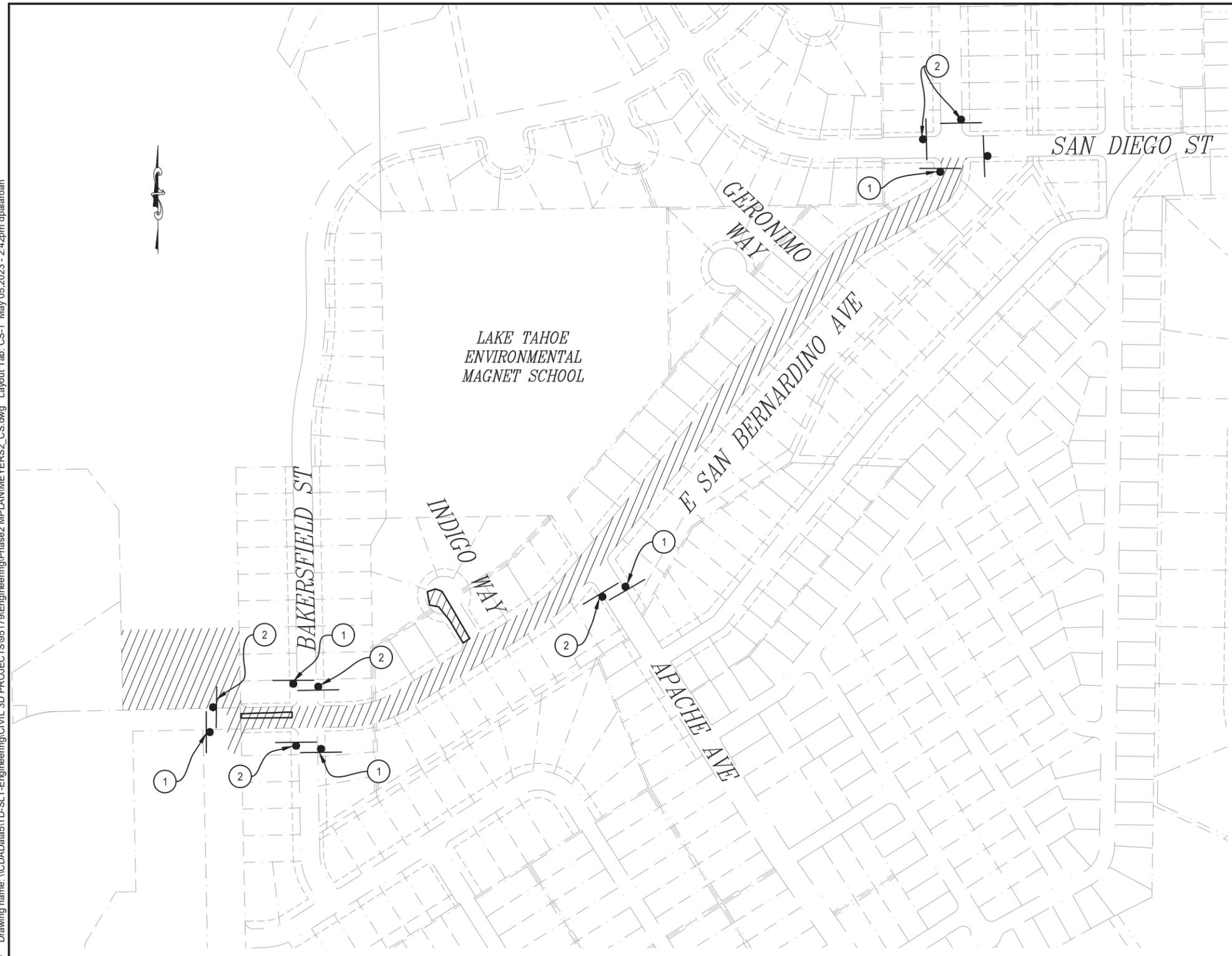
COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION

MEYERS STREAM ENVIRONMENT  
 ZONE/ EROSION CONTROL PROJECT

SHEET  
**EC-3**  
 23 OF 29  
 W.O. No. 36107007

EROSION CONTROL  
 SCALE: 1" = 20'

ORIGINAL SCALE: 1" = 150'  
 Drawing name: \\C:\Data\5179\Engineering\Civil\_3D\PROJECTS\95179\Engineering\Phase2\MPLAN\MEYERS2\_CS.dwg Layout Tab: CS-1 May 05, 2023 - 2:42pm dpalaroan



**LEGEND:**

- CONSTRUCTION AREA
- STAGING AND STORAGE AREA
- CONSTRUCTION SIGN
- W20-1 (CA) "ROAD WORK AHEAD" SIGN
- G20-2 "END ROAD WORK" SIGN

**GENERAL NOTES:**

1. THIS PLAN HAS BEEN PREPARED AS A GUIDE FOR YOU IN PREPARATION OF A COMPLETE TRAFFIC CONTROL PLAN AND TO AID IN YOUR PLANNING FOR STAGING/STORAGE OF MATERIALS AND EQUIPMENT. YOUR TRAFFIC CONTROL PLAN WILL INCLUDE DETAILED CONTROLS INCLUDING FLAGGERS, LANE CLOSURES, AND SIGNS FOR ALL ITEMS OF ROAD WORK WHICH WILL REQUIRE ALTERATION OF EXISTING TRAFFIC PATTERNS. THE PLAN SHOWS THE SIGNS TO BE REQUIRED AS A MINIMUM.
2. YOUR TRAFFIC CONTROL PLAN WILL ADDRESS EACH PHASE OF CONSTRUCTION (e.g. PIPE PLACEMENT, STRUCTURES ADJACENT TO AND/OR AFFECTING THE ROADWAY, ETC.) AND WILL CONFORM TO PART 6 OF THE CALIFORNIA MUTCD ENTITLED "TEMPORARY TRAFFIC CONTROL" AND THE SPECIAL PROVISIONS. YOUR TRAFFIC CONTROL PLAN WILL ALSO INCLUDE ALL SIGNING REQUIRED AT INTERSECTING STREETS WITHIN THE AREA THAT WILL REQUIRE TRAFFIC CONTROL.
3. SINGLE LANE CLOSURES WILL BE ALLOWED FOR THE INSTALLATION OF THE ROCK SLOPE PROTECTION, CORRUGATED STEEL PIPE INLETS, CHANNELS, DRAINAGE INLET, AND PIPE AS APPLICABLE. AT ALL OTHER TIMES, TWO LANES OF TRAFFIC WILL BE MAINTAINED EXCEPT FOR THE ROADWAY ADJACENT TO THE STAGING AND STORAGE AREAS.
4. AT THE END OF EACH WORK DAY A MINIMUM OF TWO 10-FOOT LANES WILL BE OPENED TO PUBLIC TRAFFIC EXCEPT FOR THE ROADWAY ADJACENT TO THE STAGING AND STORAGE AREAS. NO LANE CLOSURE WILL PREVENT RESIDENTS FROM ACCESS TO THEIR PROPERTY.
5. WHEN LANE CLOSURES ARE REMOVED AND ROADS ARE OPEN TO PUBLIC TRAFFIC, ALL DRIVEWAYS WITHIN THE WORK AREA WILL BE ACCESSIBLE AND OPERATIONAL.
6. YOU WILL NOT EXCAVATE MORE THAN CAN BE INSTALLED AND BACKFILLED IN ONE WORKING DAY.
7. YOU MUST REFER TO THE SWPPP/WPCP, EROSION CONTROL PLAN SHEETS, AND THE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL REQUIREMENTS FOR STAGING AREAS.
8. STAGING AREAS SHOWN ARE FOR THE TEMPORARY STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT WHICH ARE TO BE USED ON THIS PROJECT.

FOR REDUCED PLANS  
 0 1 2

**CONSTRUCTION AREA SIGNS**  
 SCALE : 1" = 150'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE: APRIL 28, 2023

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B

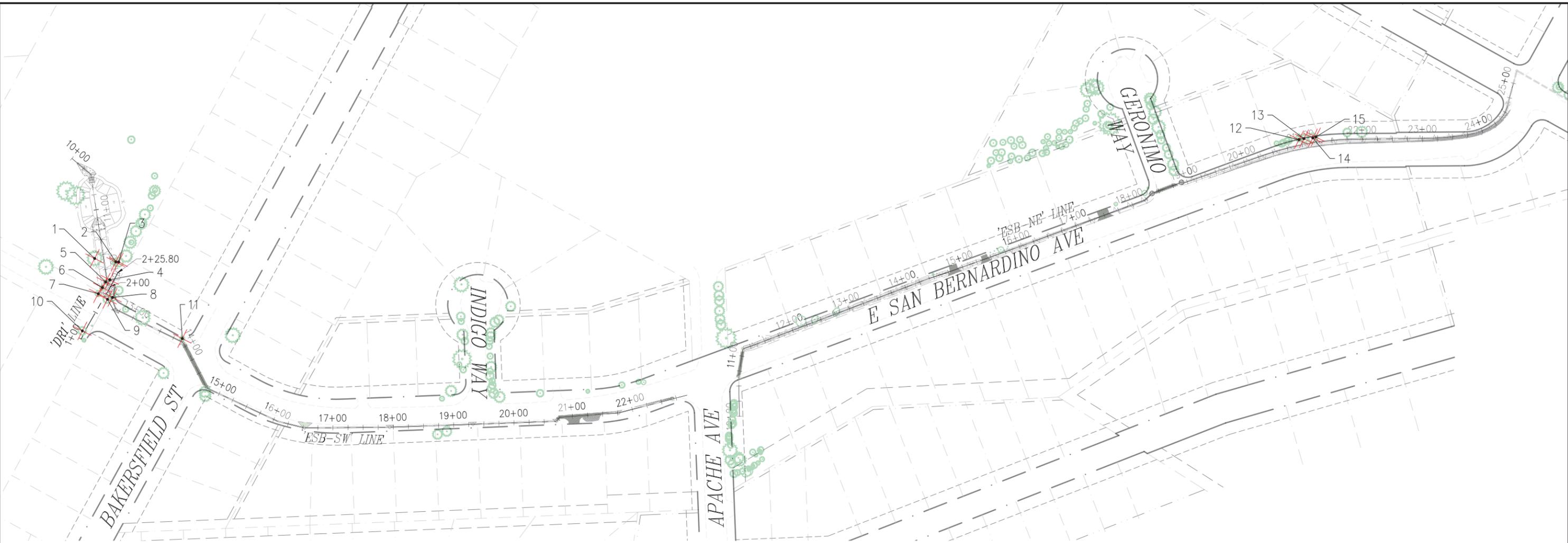


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

SHEET  
**CS-1**  
 24 OF 29  
 W.O. No.  
**36107007**

ORIGINAL SCALE IS IN INCHES  
 Drawing name: \\CAD\data5\1D-SIT-Engineering\CIVIL\_3D\_PROJECTS\95179\Engineering\Phase2\_MPLAN\MEYERS2\_TR.dwg Layout Tab: TR-01 May 05, 2023 2:42pm dpatara.com  
 FOR REDUCED PLANS  
 2  
 1  
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**LEGEND**  
 ✕ TREES TO BE REMOVED

**GENERAL NOTES:**  
 1. ALL TREES TO BE REMOVED WILL BE CLEARLY MARKED WITH A PAINTED ORANGE "X".  
 2. TREE SIZES ARE APPROXIMATE. ACTUAL SIZES MAY VARY SLIGHTLY.

TREE REMOVAL TABLE			
NUMBER ON SHEET	STATION	OFFSET	SIZE (DBH), DESCRIPTION
1	'ESB SW' 11+79.22	14.75' RT	30" LODGEPOLE PINE
2	'ESB SW' 11+90.25	18.86' LT	18" LODGEPOLE PINE
3	'ESB SW' 11+90.95	23.66' LT	18"-18"-22" FORKED LODGEPOLE PINE
4	'ESB SW' 12+17.84	4.55' LT	11"-11"-11" FORKED LODGEPOLE PINE
5	'ESB SW' 12+20.37	2.65' RT	13"-12" FORKED LODGEPOLE PINE
6	'ESB SW' 12+28.72	9.48' RT	14" LODGEPOLE PINE
7	'DR1' 1+78.99	11.68' LT	16"-14" FORKED LODGEPOLE PINE
8	'ESB SW' 12+48.08	1.84' LT	18" LODGEPOLE PINE
9	'ESB SW' 15+48.00	7.15' RT	20"-18" FORKED LODGEPOLE PINE
10	'DR1' 1+12.89	4.32' LT	20" LODGEPOLE PINE
11	'ESB SW' 13+88.43	5.17' LT	14" LODGEPOLE PINE
12	'ESB NE' 20+96.65	9.63' LT	13" LODGEPOLE PINE
13	'ESB NE' 21+05.04	9.68' LT	20" LODGEPOLE PINE
14	'ESB NE' 21+19.37	8.35' LT	22" LODGEPOLE PINE
15	'ESB SW' 21+24.52	9.14' LT	12" LODGEPOLE PINE



**TREE REMOVAL PLAN**  
 SCALE : 1" = 80'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: **APRIL 28, 2023**

DESIGNED: DSP  
 DRAWN: KIS  
 CHECKED: DSP  
 DATE: 1/2023  
 ROAD NUMBER: 2252B



**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**MEYERS STREAM ENVIRONMENT**  
**ZONE/ EROSION CONTROL PROJECT**

SHEET  
**TR-1**  
 25 OF 29  
 W.O. No. **36107007**

## ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
APPX	APPROXIMATELY
AVE	AVENUE
C&G	CURB AND GUTTER
CF	CUBIC FEET
CL	CENTERLINE
CPLG	COUPLING
CPS	COPPER PIPE SIZE
CSLT	CITY OF SOUTH LAKE TAHOE
DI	DRAINAGE INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	DRIVE WAY
E	EXISTING
EA	EACH
ELEC	ELECTRIC
ELEV	ELEVATION
ELL	ELBOW
EOP	EDGE OF PAVEMENT
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FLG	FLANGE
FM	FORCE MAIN
G	GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BREAK
GPM	GALLONS PER MINUTE
GS	GAS SERVICE, GROUND SHOT
H	HEIGHT
HORZ, HO	HORIZONTAL, HORIZONTAL OFFSET
HWY	HIGHWAY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
IPS	IRON PIPE SIZE
JT	JOINT
L	LENGTH
LF	LINEAR FEET
LN	LANE
LOC	LOCATION
LT	LEFT
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MJ	MECHANICAL JOINT
MIN	MINIMUM
N	NORTH/NEW
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PCC	PORTLAND CEMENT CONCRETE
PE, POLY	POLYETHYLENE
PL	PROPERTY LINE
PP	POWER POLE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTW	PIPE TRACER WIRE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
REQD	REQUIRED
REVEG	REVEGETATION
RJ	RESTRAINED JOINT
RT	RIGHT
ROW	RIGHT-OF-WAY
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SQ FT	SQUARE FOOT
SHT	SHEET
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	SANITARY SEWER, STAINLESS STEEL
SSL	SANITARY SEWER LATERAL
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STPUD	SOUTH TAHOE PUBLIC UTILITY DISTRICT
STR	STRUCTURE
TEL	TELEPHONE
TAN	TANGENT
TBC	TOP BACK CURB
TBD	TO BE DETERMINED
TEMP	TEMPORARY
TG	TOP OF GRATE
TR	TOP OF RIM
TRPA	TAHOE REGIONAL PLANNING AGENCY
TYP	TYPICAL
UG	UNDERGROUND
USFS	U.S. FOREST SERVICE
UTIL	UTILITY
V, VO	VERTICAL, VERTICAL OFFSET
VAR	VARIES
W	WATER
WL	WATER LINE
W/	WITH
WM	WATER METER
WS	WATER SERVICE
WV	WATER VALVE
YD	YARD

## LEGEND

### EXISTING:

SEWER:	— s — s —
WATER:	— w — w —
GAS:	— g — g —
UNDERGROUND ELECTRIC:	— JT — JT —
OVERHEAD UTILITY:	— oh — oh —
EDGE OF GRADING:	— c — c — c — c — c — c —
STORM DRAIN:	— SD — SD — SD —
PROPERTY LINE:	— — — — —
RIGHT-OF-WAY:	— — — — —
EASEMENT:	— — — — —
EDGE OF PAVEMENT:	— — — — —
EDGE OF SD CHANNEL:	— — — — —
WATER MAIN VALVE:	⊕
WATER METER:	⊞
FIRE HYDRANT:	⊙
SEWER MANHOLE:	⊙
POWER POLE:	⊕
ELEC/COMM/TELE VAULT:	□
SIGN:	⊕
TREE OR BUSH:	⊙

### PROPOSED:

WATER MAIN LINE:	— — — — —
SVC & FH LINES:	— — — — —
WATER MAIN VALVE:	●
FIRE HYDRANT:	●
CUT AND CAP EXISTING MAIN:	⊔
WATER REDUCER:	▶

## AGENCY & UTILITY CONTACTS

CALTRANS 24HOUR EMERGENCY  
(530) 426-7600  
(916) 859-7900

EL DORADO COUNTY SHERIFF'S OFFICE  
NON EMERGENCY  
(530) 573-3000

EL DORADO COUNTY DEPARTMENT OF  
TRANSPORTATION  
(530) 573-3180

SOUTH TAHOE PUBLIC UTILITY DISTRICT  
(530) 544-6474

EL DORADO COUNTY  
ENVIRONMENTAL MANAGEMENT  
(530) 573-3450

TAHOE REGIONAL PLANNING AGENCY  
(775) 588-4547

SOUTHWEST GAS (NATURAL GAS)  
(800) 772-4555

CHARTER COMMUNICATIONS INC. (CABLE TV)  
(775) 588-1077

LIBERTY ENERGY (ELECTRIC)  
(530) 541-1628  
(775) 689-4100 COLLECT

ATT/SBC (TELEPHONE)  
611 (PRESS "0" FOUR TIMES)  
(800) 310-2355 OPTION #2

LAKE VALLEY FIRE PROTECTION DISTRICT  
(530) 577-3737

## GENERAL NOTES

- CONTRACTOR SHALL HAVE SIGNED PLANS, SPECIFICATION AND PERMITS IN THEIR POSSESSION PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES, LOCAL AGENCIES AND/OR UTILITY DISTRICTS AS TO THE LOCATION OF ALL UNDERGROUND FACILITIES. LOCATION AND DEPTH OF EXISTING UTILITIES WHERE SHOWN ON PLANS ARE BASED ON BEST AVAILABLE INFORMATION. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION OR THAT ALL UTILITIES ARE SHOWN. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE, PROTECT, AND MAINTAIN ALL EXISTING UTILITIES. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACTOR SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING UNDERGROUND SERVICE ALERT 811. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES OF DEPTH BELOW THE EXISTING SURFACE.
- THE CONTRACTOR SHALL POTHOLE ALL UTILITY AND STORM DRAIN CROSSINGS ALONG THE PIPELINE ALIGNMENT IN ADVANCE OF INSTALLATION. THE CONTRACTOR SHALL REPORT THE RESULTS OF THE POTHOLE IN WRITING TO THE ENGINEER 48 HOURS (NOT TO INCLUDE WEEKENDS OR HOLIDAYS) PRIOR TO UNDERTAKING ANY CORRECTIVE ACTION BY THE CONTRACTOR REGARDING FACILITY LOCATION OR ALIGNMENT. SHOULD ANY CORRECTIVE WORK BE DONE PRIOR TO NOTIFICATION, THE DISTRICT ASSUMES NO LIABILITY FOR THE COSTS INCURRED FOR THIS WORK.
- CONTRACTOR TO BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND ANY OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A CALIFORNIA LICENSED SURVEYOR AT CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL APPLY EITHER WATER OR DUST PALLIATIVE OR BOTH, AS REQUIRED BY THE OPTION OF THE OWNER OR HIS REPRESENTATIVE, FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE.
- THE CONTRACTOR SHALL COMPLY WITH THE TAHOE REGIONAL PLANNING AGENCY STANDARD CONDITIONS OF APPROVAL. A PRE-GRADE INSPECTION SHALL BE COMPLETED PRIOR TO ANY SAWCUTTING OR EXCAVATION ACTIVITIES.
- THE CONTRACTOR SHALL COMPLY WITH THE STATE WATER QUALITY CONTROL BOARD WASTE DISCHARGE REQUIREMENTS FOR THIS PROJECT AND EL DORADO COUNTY ENCROACHMENT PERMIT.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REVEGETATED BY THE CONTRACTOR IN ACCORDANCE WITH THE TAHOE REGIONAL PLANNING AGENCY HANDBOOK OF BEST MANAGEMENT PRACTICES. APPLICATION OF A MULCH MAY ENHANCE VEGETATIVE ESTABLISHMENT. NO EQUIPMENT OR VEHICLES SHALL BE PLACED OUTSIDE THE STATE, CITY, OR COUNTY RIGHT OF WAY. ANY DISTURBANCE OF PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT THEIR EXPENSE.
- ALL EXCESS MATERIAL FROM THE PROJECT IS TO BE REMOVED FROM THE SITE AND DISPOSED OF AT A SITE APPROVED BY THE TAHOE REGIONAL PLANNING AGENCY. NO EXCESS MATERIAL SHALL BE STORED ON SITE AFTER HOURS.
- ALL INTERTIES BETWEEN NEW WATER MAINS AND THE EXISTING WATER SYSTEM, INCLUDING NEW WATER SERVICE CONNECTIONS, AND FIRE HYDRANT INSTALLATIONS AND TRANSFERS, SHALL ONLY BE MADE AFTER ALL PRESSURE TESTING AND DISINFECTION REQUIREMENTS ARE SATISFACTORILY MET. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL BLOW OFFS NECESSARY FOR FLUSHING AND SAMPLING OF ALL NEW WATER MAINS AS REQUIRED BY THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD AND PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL REPLACE ALL TRAFFIC STRIPING THAT IS DISTURBED DURING CONSTRUCTION.
- ALL EXCAVATIONS SHALL BE BACKFILLED OR TRENCH PLATED AT THE END OF EACH DAY'S WORK PER THE SPECIFICATIONS. EXCAVATIONS WITHIN EXISTING PAVED AREAS SHALL BE COLD PATCHED AS REQUIRED PER SPECIFICATIONS TO MATCH THE EXISTING PAVEMENT AT THE END OF EACH DAY'S WORK. ALL TRENCH PLATES SHALL BE NON-SKID TYPE AND HAVE COLD PATCH APPLIED TO THE EDGE FOR TRAFFIC APPROACH AND DEPARTURE.
- THE CONTRACTOR SHALL PROVIDE, ON ALL NON-CONDUCTIVE PIPING, CONTINUOUS INSULATED TRACER WIRE RATED FOR DIRECT BURY (#10 SOLID COPPER OR #12 COPPER CLAD STEEL WIRE ALONG THE PIPELINE AND PROVIDE ACCESS TO TRACER WIRE AT ALL VALVE BOX INSTALLATIONS WITH A MINIMUM OF 1 FT EXCESS TRACER WIRE FOR FUTURE SERVICE CONNECTIONS. THIS SHALL ALSO APPLY TO ALL CONDUCTIVE PIPING UNLESS PERMANENTLY BONDED AT EACH JOINT. ALL

TRACER WIRE CONNECTIONS SHALL BE MADE USING 3M DBR-6 SPLICE KIT OR APPROVED EQUAL.

- THE CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR ANY DISTURBANCE OR CONTAMINATION TO ANY DRY WELLS, STORM WATER COLLECTION OR RETAINAGE SYSTEMS INCLUDING STORM DRAIN PIPE, CURB & GUTTER, VALLEY GUTTERS AND HORIZONTAL DRAINS THROUGH OUT THE PROJECT AREA. ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE DISTRICT. THE CONTRACTOR SHALL NOT STOCK PILE ANY MATERIAL UPON ANY DRAINAGE FACILITIES.
- CONTRACTOR SHALL MAINTAIN THE CONTINUOUS FLOW OF TRAFFIC AT ALL TIMES DURING CONSTRUCTION ACTIVITY. AFTER WORKING HOURS ALL TRAFFIC BARRIERS SHALL BE REMOVED AND TRAFFIC RETURNED TO NORMAL.
- CONTRACTOR SHALL REMOVE ALL MATERIAL GENERATED BY ANY ASPHALT SAW CUTTING OPERATION DURING OR IMMEDIATELY AFTER SAWCUTTING BY USING ADEQUATELY SIZED VACUUMING EQUIPMENT TO ACCOMMODATE THE REMOVAL PROCESS.
- CONTRACTORS EQUIPMENT AND EMPLOYEE VEHICLES SHALL PARK ON EXISTING PAVED SURFACES OR EXISTING COMPACTED ROAD SHOULDERS. NO EQUIPMENT OR VEHICLES SHALL BE PLACED OUTSIDE THE STATE, CITY, OR COUNTY RIGHT OF WAY. ANY DISTURBANCE OF PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT THEIR EXPENSE.
- ALL SEWER PIPES DAMAGED DURING THE EXECUTION OF THE PROJECT SHALL BE REPAIRED PER DETAILS.
- AFTER THE NEW MAIN IS PLACED INTO SERVICE, THE EXISTING WATER MAINS, WHERE SHOWN ON THE PROJECT DRAWINGS, ARE TO BE ABANDONED IN PLACE BY CUTTING OUT A SECTION OF PIPE AND WELDING A CAP ON THE END OF THE PIPELINE, OR OTHER APPROVED METHOD OF CAPPING. BLIND-FLANGE CAPPING SHALL BE UTILIZED WHERE POSSIBLE. ALL EXPOSED CORPORATION STOPS ON THE EXISTING WATER MAINS ARE TO BE LEFT IN PLACE IN THE CLOSED POSITION. FOR CORPORATION STOPS THAT HAVE NOT BEEN EXPOSED, THE CAPPING OF THE END OF THE SERVICE LINE USING AN APPROVED COMPRESSION FITTING SHALL BE ACCEPTABLE. EXISTING FIRE HYDRANTS TO BE ABANDONED AT THE ISOLATION VALVE. REMOVED FROM THE PROJECT AREA AND RETURNED TO THE DISTRICT. BY THE CONTRACTOR. THE ISOLATION VALVE IS TO BE BLIND FLANGED OR CAPPED BY OTHER APPROVED METHOD.
- ALL EXISTING WATER SERVICES FOR THIS PROJECT SHALL BE ABANDONED PER NOTE #19. ONLY NEW WATER SERVICE CONNECTIONS WHERE SHOWN ON THE PROJECT PLANS SHALL BE INSTALLED PER THE DISTRICTS STANDARD DETAILS AND PROJECT DRAWINGS. THE LOCATIONS OF ALL EXISTING WATER SERVICES SHALL BE VERIFIED AND MARKED IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HANDLING AND PROPER DISPOSAL OF DISTRIBUTION SYSTEM WATER ENCOUNTERED DURING SYSTEM TIE-INS IN ACCORDANCE WITH THE SPECIFICATIONS. FOR THIS PROJECT, THE CONTRACTOR SHALL ASSUME THAT UP TO 1,250 GALLONS WILL BE ENCOUNTERED AT EACH TIE-IN.
- CONTRACTOR SHALL EXPECT SHALLOW GROUNDWATER TO BE ENCOUNTERED. DEWATERING PER SPECIFICATIONS REQUIRED.
- WORK SHALL BE IN CONFORMANCE WITH THE ENCROACHMENT PERMIT ISSUED BY EL DORADO COUNTY. NO WORK SHALL OCCUR ON SATURDAYS OR SUNDAYS WITHOUT WRITTEN PERMISSION FROM THE DISTRICT AND EL DORADO COUNTY.



SOUTH TAHOE PUBLIC UTILITY DISTRICT  
Sewer: 1950 Rider A PUBLIC AGENCY  
1275 Meadows Crest Drive South Lake Tahoe, California 96160  
Phone (530) 544-6474 Fax (530) 544-6379  
WWW.STPUD.US

## 2023 SAN BERNADINO SEZ/E.C. STPUD WATER LINE RELOCATION GENERAL NOTES



DATE: APRIL 2023

SCALE: AS SHOWN

DRAWN: TCJ

DESIGN: TCJ

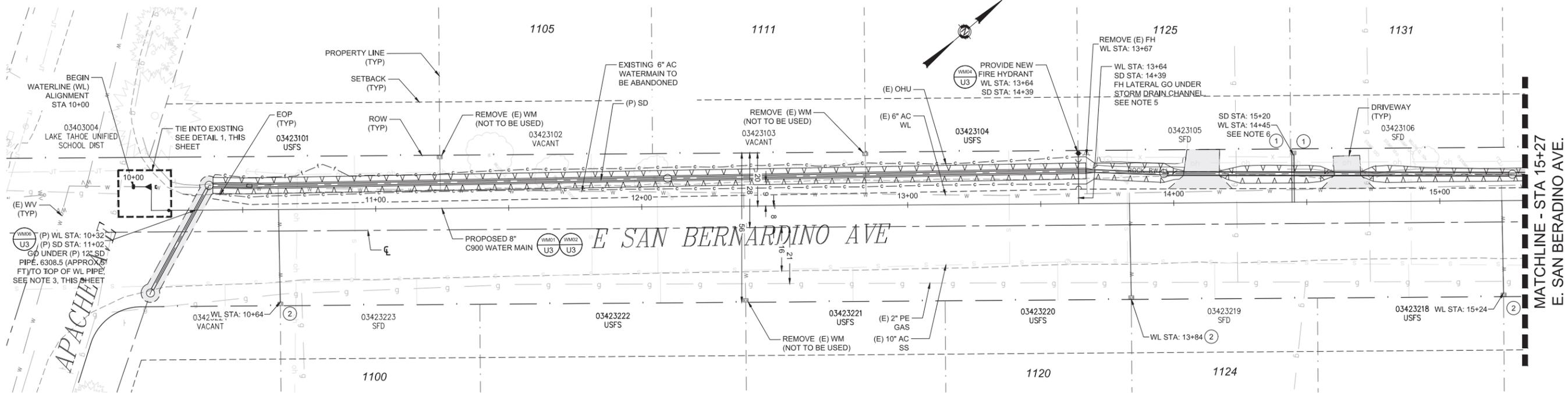
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Know what's below.  
Call before you dig.

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26 OF 29  
SHEETS

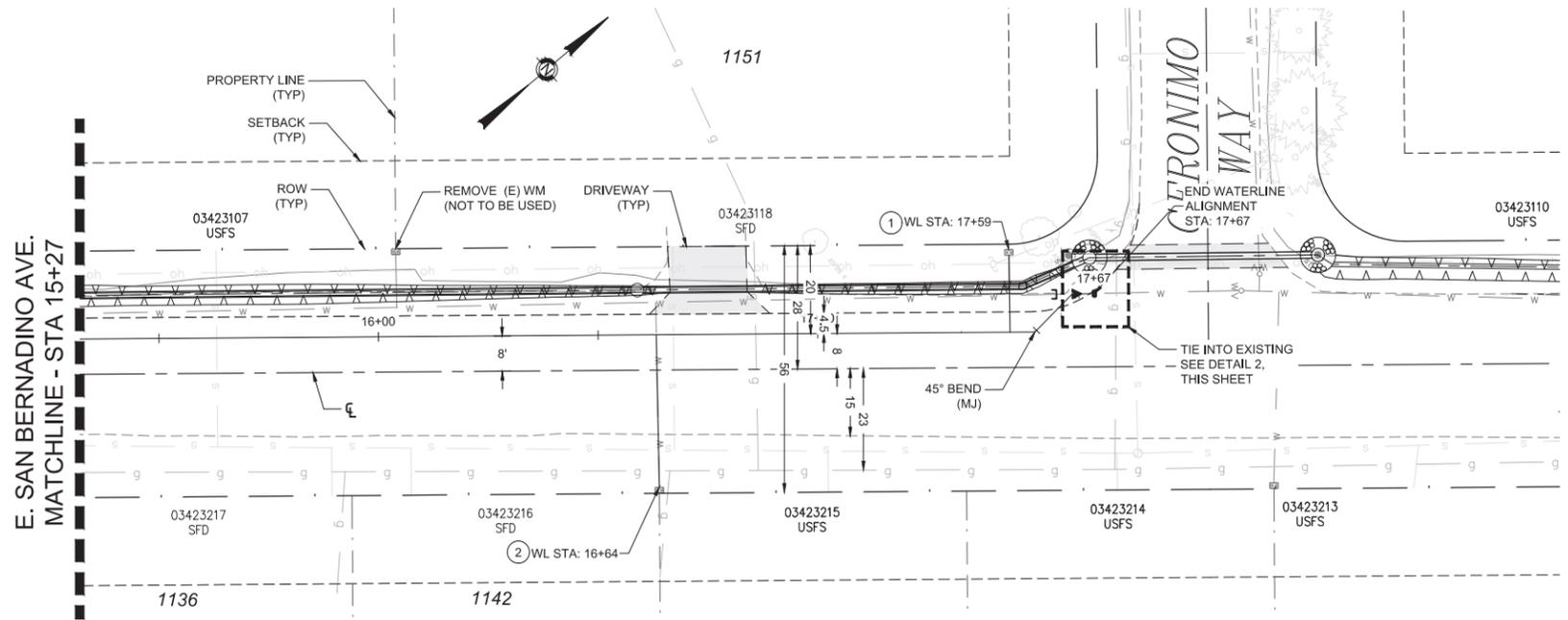
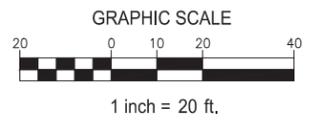


- NOTES:**
- ACTUAL LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL POTHOLE AND VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION. PROTECT EXISTING UTILITIES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGED UTILITIES, PAVEMENT, OR CURB AND GUTTER AS NECESSARY. SEE DETAILS SS04, C01 AND C04 ON SHEET U4.
  - PROPOSED STORM DRAIN LOCATION TO BE STAKED BY COUNTY. INSTALL FULL STICK OF C900 DR14 CENTERED AT CROSSING AND RESTRAIN JOINTS ON BOTH SIDES. 12" MINIMUM SEPARATION BETWEEN BOTTOM OF STORM DRAIN AND TOP OF WATER LINE.
  - ALL MJ JOINTS SHALL BE RESTRAINED.
  - FIRE HYDRANT LATERAL MUST HAVE 12" MIN SEPARATION FROM THE BOTTOM OF THE (P) STORM DRAIN. TOP OF FH LATERAL APPROXIMATELY 4FT BELOW EXISTING GRADE AT LOCATION OF CROSSING.
  - RUN NEW WATER SERVICES UNDER PROPOSED STORM DRAIN CHANNEL. MAINTAIN 12" VERTICAL SEPARATION. (P) WATER SERVICE APPROXIMATELY 5FT BELOW (E) GRADE.

# PLAN

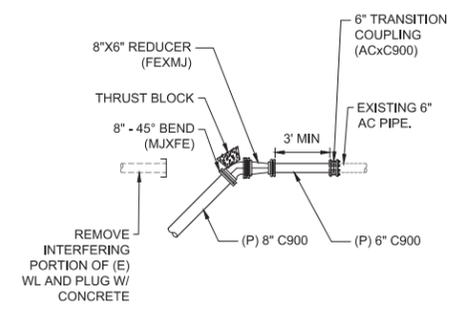
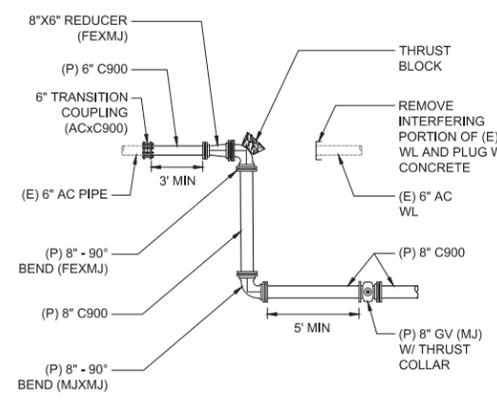
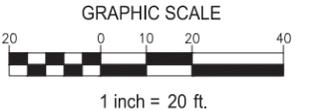
SCALE: 1" = 20'

- KEYNOTES:**
- PROVIDE SINGLE 3/4" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER
  - PROVIDE SINGLE 1" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER



# PLAN

SCALE: 1" = 20'



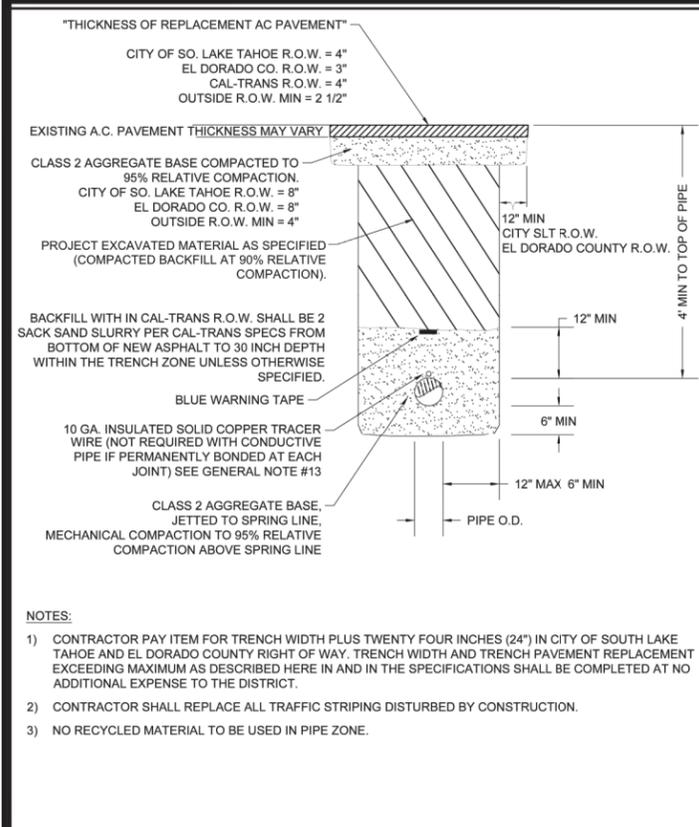
## 2023 SAN BERNADINO SEZ/E.C. STPUD WATER LINE RELOCATION E. SAN BERNADINO AVE



DATE: APRIL 2023  
SCALE: AS SHOWN  
DRAWN: TCJ  
DESIGN: TCJ  
AS BUILT:

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27 OF 29  
SHEETS

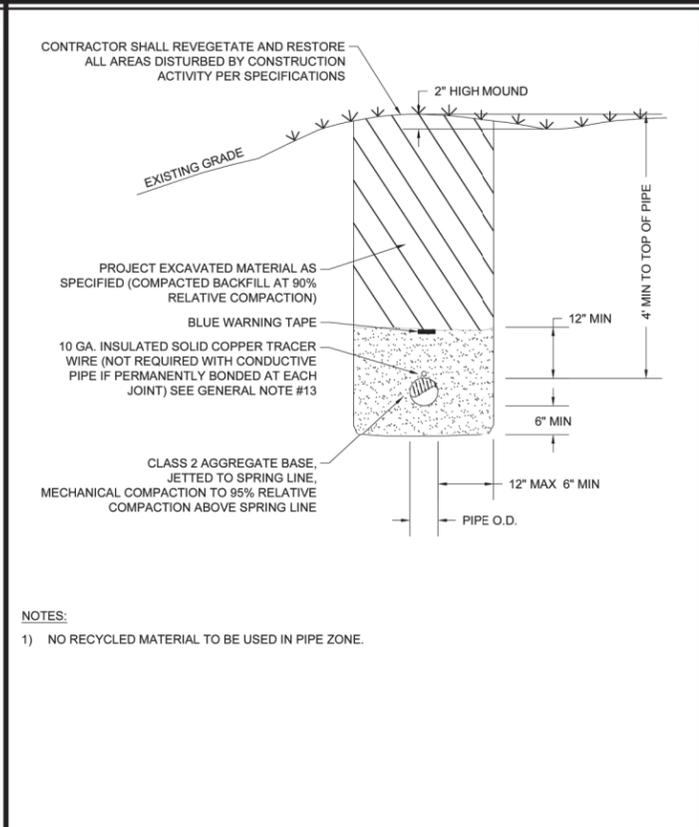
SOUTH TAHOE PUBLIC UTILITY DISTRICT  
A PUBLIC AGENCY  
1275 Meadow Crest Drive South Lake Tahoe, California 96150  
Phone (530) 544-6474 Fax (530) 544-4379  
WWW.STPUD.US



APPROVED BY: JULIE H. BYAN, DISTRICT ENGINEER, P.E. NO. CE 59002

**WATER MAIN TRENCH WITHIN PAVED AREAS**  
 STANDARD DETAIL WM01  
 DATE: 3/9/2023 SCALE: NTS

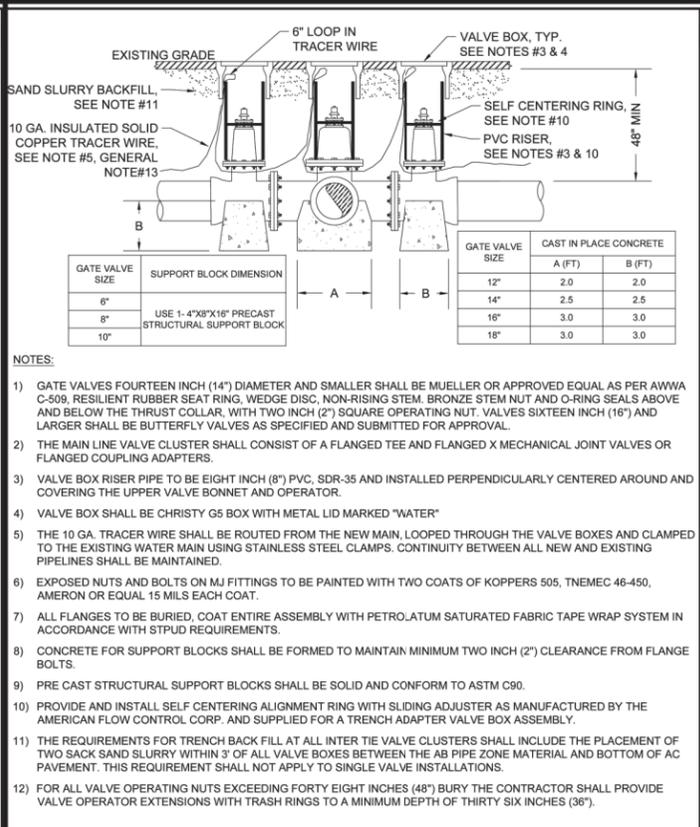
**WM01**



APPROVED BY: JULIE H. BYAN, DISTRICT ENGINEER, P.E. NO. CE 59002

**WATER MAIN TRENCH OUTSIDE PAVED AREAS**  
 STANDARD DETAIL WM02  
 DATE: 4/7/2022 SCALE: NTS

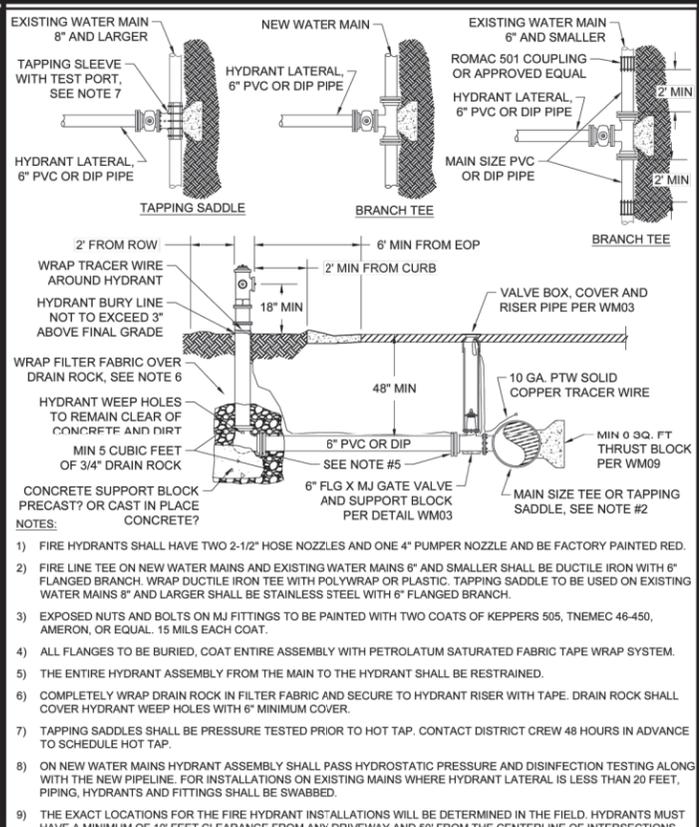
**WM02**



APPROVED BY: JULIE H. BYAN, DISTRICT ENGINEER, P.E. NO. CE 59002

**WATER VALVE ASSEMBLY**  
 STANDARD DETAIL WM03  
 DATE: 4/11/2022 SCALE: NTS

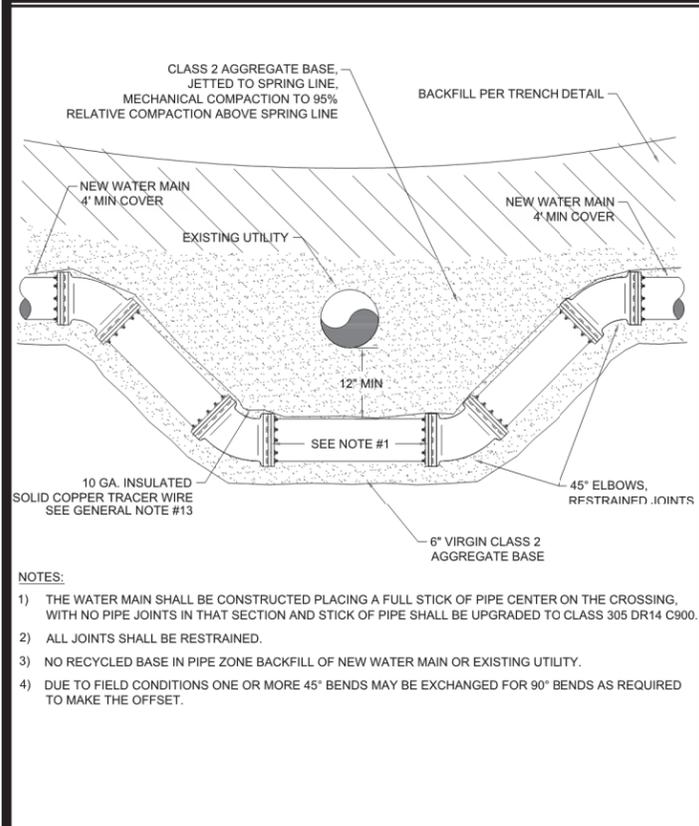
**WM03**



APPROVED BY: JULIE H. BYAN, DISTRICT ENGINEER, P.E. NO. CE 59002

**FIRE HYDRANT**  
 STANDARD DETAIL WM04  
 DATE: 5/23/2022 SCALE: NTS

**WM04**



APPROVED BY: JULIE H. BYAN, DISTRICT ENGINEER, P.E. NO. CE 59002

**NEW WATER MAIN VERTICAL OFFSET**  
 STANDARD DETAIL WM06  
 DATE: 7/27/2022 SCALE: NTS

**WM06**

**FITTING AND PIPE RESTRAINT LENGTH REQUIREMENTS**

TYPE OF FITTING	90° ELBOW	45° ELBOW	22.5° ELBOW	11.25° ELBOW	TEE BRANCH*	TEE W/ PLUG	REDUCER**	VALVE IN LINE	VALVE AT END	DEAD END
6" PVC DIP	14'	6'	3'	2'	10'	14'	41'	42'	42'	42'
8" PVC DIP	16'	7'	4'	2'	10'	16'	61'	63'	63'	63'
10" PVC DIP	18'	8'	4'	2'	10'	18'	41'	55'	55'	55'
12" PVC DIP	21'	9'	5'	3'	10'	21'	62'	82'	82'	82'
14" PVC DIP	22'	6'	5'	3'	10'	22'	43'	66'	66'	66'
16" PVC DIP	25'	10'	5'	3'	10'	25'	63'	99'	99'	99'
18" PVC DIP	26'	11'	6'	3'	15'	26'	43'	78'	78'	78'
24" PVC DIP	29'	12'	6'	3'	23'	29'	64'	117'	117'	117'
6" PVC DIP	29'	12'	6'	3'	25'	29'	43'	90'	90'	90'
8" PVC DIP	33'	14'	7'	4'	39'	33'	94'	133'	133'	133'
10" PVC DIP	33'	14'	7'	4'	36'	33'	44'	101'	101'	101'
12" PVC DIP	36'	15'	8'	4'	55'	36'	65'	150'	150'	150'
14" PVC DIP	36'	15'	8'	4'	46'	36'	62'	112'	112'	112'
16" PVC DIP	40'	17'	8'	4'	71'	40'	92'	167'	167'	167'
18" PVC DIP	45'	19'	9'	4'	76'	45'	62'	144'	144'	144'
24" PVC DIP	51'	21'	10'	4'	116'	51'	92'	214'	214'	214'

\* MINIMUM 10' RESTRAINED LENGTH ON EACH RUN ON BOTH SIDES OF BRANCH  
 \*\* LENGTHS GIVEN ARE VALID FOR UP TO 4" INCREASE IN NOMINAL DIAMETER FROM SIZE SHOWN

**NOTES:**

- ALL MINIMUM RESTRAINT LENGTH CALCULATIONS BASED ON MINIMUM 10' PIPE LENGTHS. MINIMUM PIPE LENGTHS FOR DUCTILE IRON PIPE FITTINGS BASED ON POLYETHYLENE ENCASEMENT.
- NUTS AND BOLTS ON ALL MJ FITTINGS SHALL BE PAINTED WITH TWO COATS OF KOPPERS 505, TNEMEC 46-450, AMERON OR EQUAL, 15 MILS EACH COAT.
- ALL FLANGES TO BE BURIED, COAT ENTIRE ASSEMBLY WITH PETROLATUM SATURATED FABRIC TAPE WRAP SYSTEM IN ACCORDANCE WITH SPECIFICATIONS.
- CONCRETE THRUST BLOCKINGS MAY BE REQUIRED IN CONJUNCTION WITH MECHANICAL THRUST RESTRAINT SYSTEMS IF DETERMINED NECESSARY BY THE ENGINEER.
- VALVES PLACED IN A RUN OF PIPE OR AT A DEAD END TO BE RESTRAINED PER DEAD END RESTRAINT LENGTHS.
- ALL VALVE CLUSTERS (CROSS OR TEE) USE THE RESTRAINT LENGTHS FOR THE 90° ELBOW.

APPROVED BY: JULIE H. BYAN, DISTRICT ENGINEER, P.E. NO. CE 59002

**RESTRAINT LENGTH SCHEDULE**  
 STANDARD DETAIL WM08  
 DATE: 4/12/2022 SCALE: NTS

**WM08**

**THRUST BLOCK AREA REQUIRED - SQUARE FEET**

TYPE OF FITTING	90° ELBOW	45° ELBOW	22.5° ELBOW	11.25° ELBOW	TEE BRANCH	TEE W/ PLUG	CROSS W/ PLUG	CROSS W/ PLUGS
6"	4	4	2	2	4	4	4	4
8"	10	6	3	3	10	10	10	10
10"	12	8	4	4	15	15	15	15
12"	16	10	6	6	20	20	20	20
14"	21	12	6	6	22	21	22	21
16"	27	15	8	8	32	27	27	27
18"	45	25	13	13	42	45	45	45
24"	65	35	18	18	45	65	65	65

**SECTION**

BEARING AREA

12" MIN

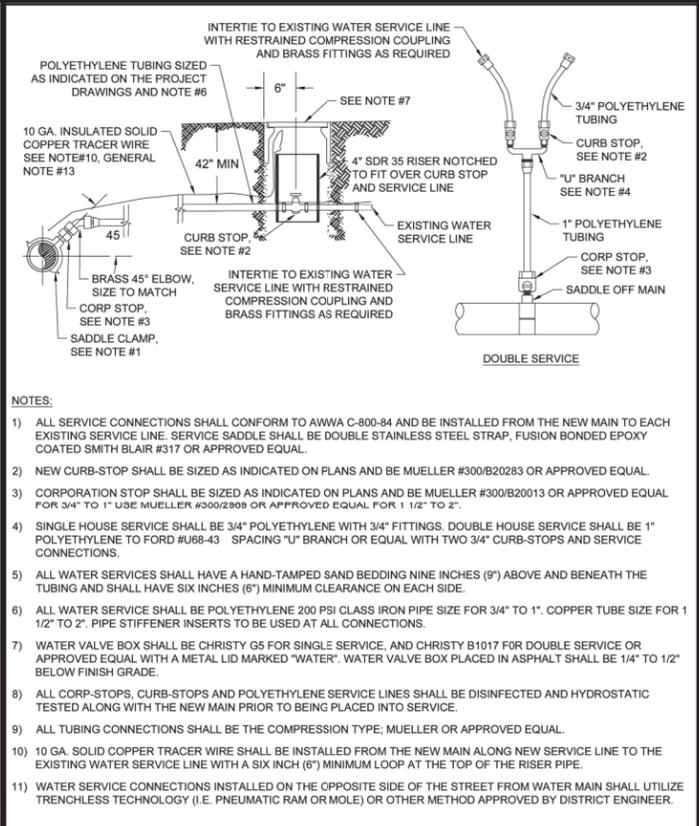
**NOTES:**

- JOINTS, FLANGE BOLTS AND FACE OF PLUGS TO BE KEPT CLEAR OF CONCRETE.
- BLOCKS MUST BE POURED AGAINST UNDISTURBED SOIL.
- THRUST BLOCKS TO BE CONSTRUCTED OF CLASS 423-C-2500 OR BETTER P.C.C.
- THRUST BLOCKS AREA IS BASED ON TEST PRESSURE OF 150 PSI AND A HORIZONTAL SOIL BEARING STRENGTH OF 1500 PSI.
- NUTS AND BOLTS ON ALL MJ FITTINGS SHALL BE PAINTED WITH TWO COATS OF KOPPERS 505, TNEMEC 46-450, AMERON OR EQUAL, 15 MILS EACH COAT.

APPROVED BY: JULIE H. BYAN, DISTRICT ENGINEER, P.E. NO. CE 59002

**TYPICAL THRUST BLOCK**  
 STANDARD DETAIL WM09  
 DATE: 4/12/2022 SCALE: NTS

**WM09**



APPROVED BY: JULIE H. BYAN, DISTRICT ENGINEER, P.E. NO. CE 59002

**WATER SERVICE**  
 STANDARD DETAIL WS01  
 DATE: 4/7/2022 SCALE: NTS

**WS01**

SOUTH LAKE TAHOE PUBLIC UTILITY DISTRICT  
 A PUBLIC AGENCY  
 1275 Meadows Crest Drive, South Lake Tahoe, California 96150  
 Phone (530) 544-6474 Fax (530) 544-6319  
 WWW.STJUD.US

2023 SAN BERNADINO SEZ/E.C.  
 STJUD WATER LINE RELOCATION  
 DETAILS

REGISTERED PROFESSIONAL ENGINEER  
 APRIL AN COMBES  
 No. 73243  
 Exp. 12/31/22  
 CIVIL  
 STATE OF CALIFORNIA

DATE: APRIL 2023

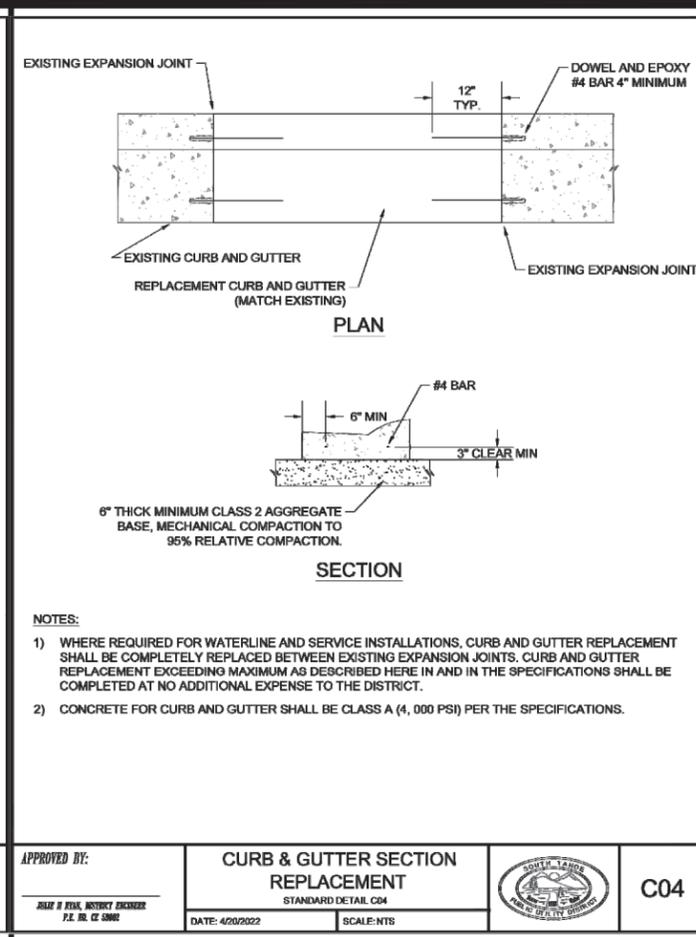
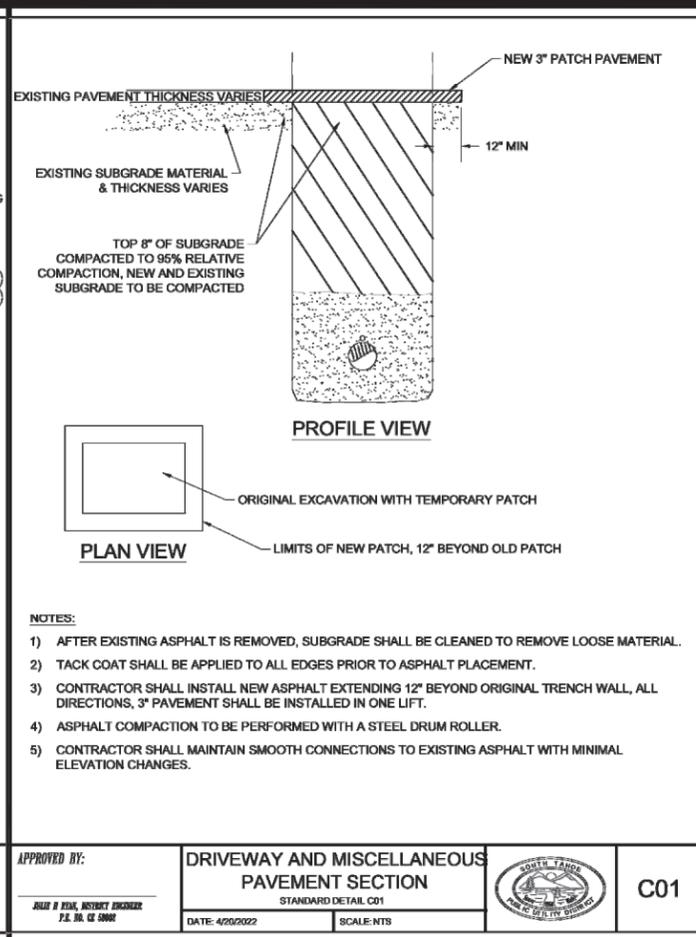
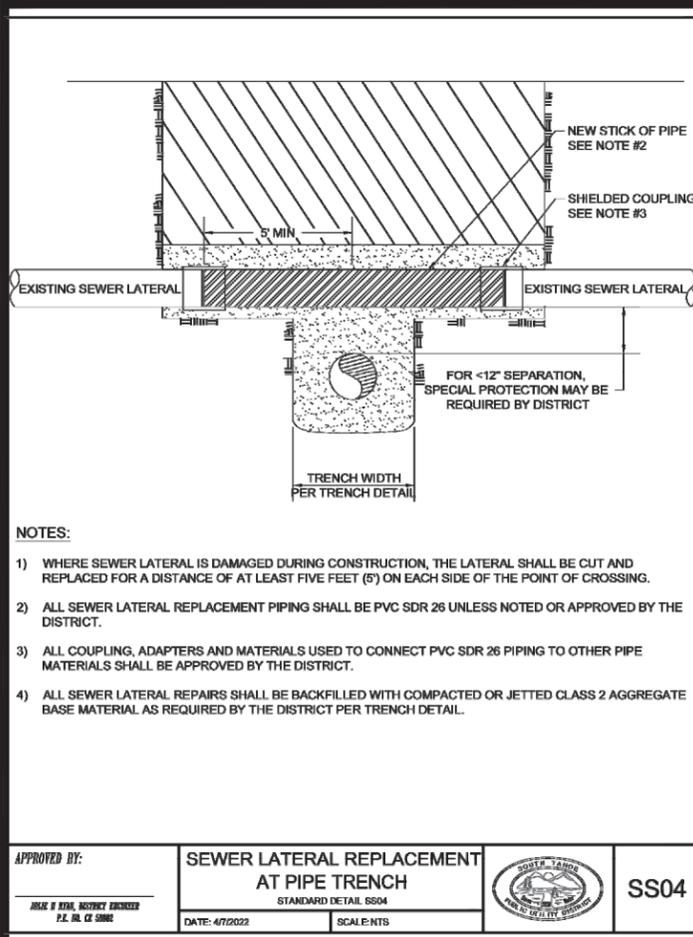
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DESIGN: TCJ

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 28 OF 29 SHEETS



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