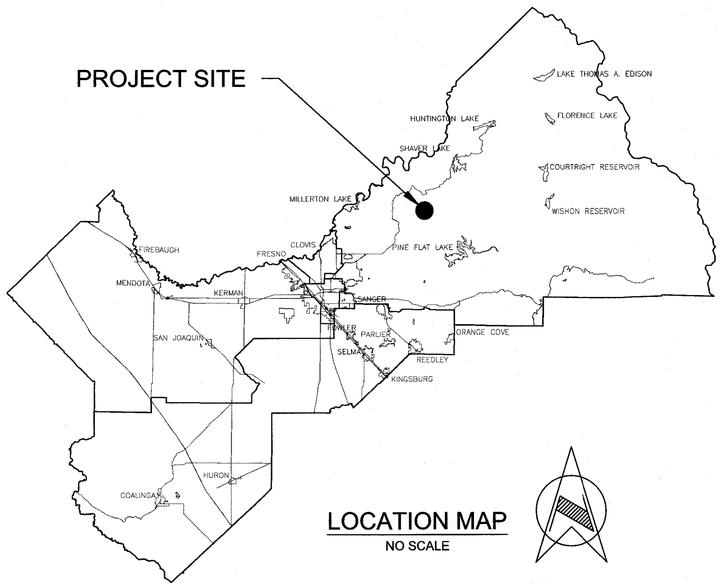
PLANS FOR CONSTRUCTION

ADDENDUM 3

DRY CREEK BRIDGE
REPLACEMENT ON BURROUGH VALLEY ROAD
BRIDGE No. 42C-0710 & CULVERT No. 42C-0711
FEDERAL PROJECT No. BRLS 5942(245)

TO BE SUPPLEMENTED BY THE FRESNO COUNTY STANDARD PLANS DATED 2016 AND THE STATE STANDARD PLANS AND SPECIFICATIONS DATED 2015

INDEX OF SHEETS



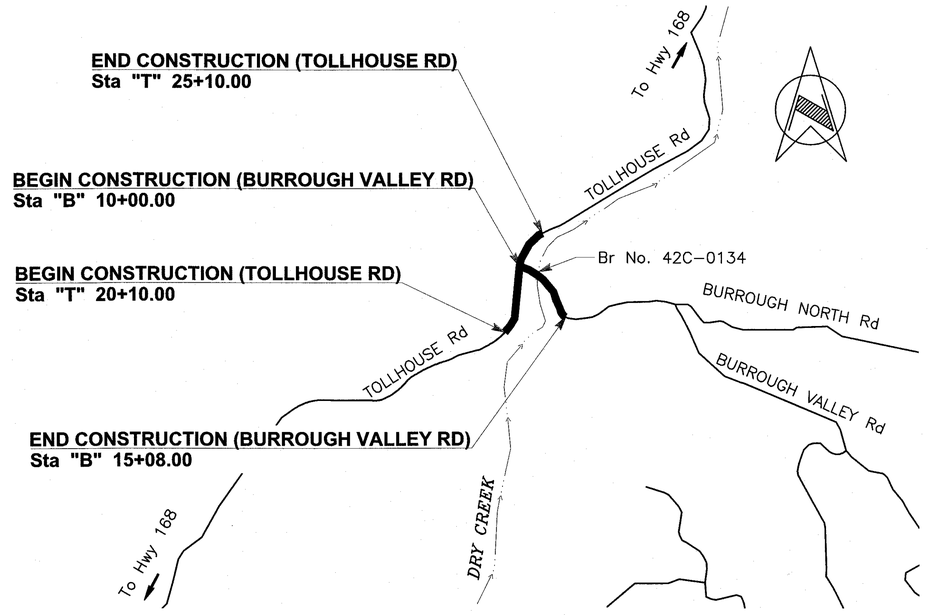
LOCATION MAP
NO SCALE

END CONSTRUCTION (TOLLHOUSE RD)
Sta "T" 25+10.00

BEGIN CONSTRUCTION (BURROUGH VALLEY RD)
Sta "B" 10+00.00

BEGIN CONSTRUCTION (TOLLHOUSE RD)
Sta "T" 20+10.00

END CONSTRUCTION (BURROUGH VALLEY RD)
Sta "B" 15+08.00



VICINITY MAP
NO SCALE

Ernest Buddy Mendes		4th	District
Steve Brandau		2nd	District
Brian Pacheco		1st	District
Sal Quintero	Chairman	3rd	District
Nathan Magsig	Vice Chairman	5th	District

Paul Nerland
County Administrative Officer

APPROVED _____

Steven E. White, Director
Department of Public Works and Planning

CALIFORNIA CONTRACTOR'S LICENSES REQUIRED FOR THIS PROJECT					
CLASS A, GENERAL ENGINEERING					
DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL
11278	1114, 7921, 7922	42C0710 & 42C0711	2023	T-1	64
CONTRACT NO. 22-05-C					

RECORD DRAWING		
DATE ADOPTED		
CONTRACTOR		
NAME		
ADDRESS		
CITY	STATE	ZIP
PHONE		
DATE AWARDED		
DATE STARTED		
DATE COMPLETED		
RESIDENT ENGINEER		
NAME	SIGNATURE	
NAME	SIGNATURE	

DIVISION	DES	CON	RMO
SIGNATURE	[signature]	[signature]	[signature]
DATE	3/10/23	3/10/23	3/10/23

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GENERAL LEGEND

2015 CALTRANS STANDARD PLANS LIST

■ INDICATES APPLICABLE PLAN

☐	A20A	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
☐	A20B	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
☐	A20C	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
■	A20D	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
☐	A24A	PAVEMENT MARKINGS ARROWS
☐	A24B	PAVEMENT MARKINGS ARROWS AND SYMBOLS
☐	A24C	PAVEMENT MARKINGS SYMBOLS AND NUMERALS
■	A24D	PAVEMENT MARKINGS WORDS
☐	A24E	PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES
■	A24F	PAVEMENT MARKINGS CROSSWALKS
☐	A62A	EXCAVATION AND BACKFILL MISCELLANEOUS DETAILS
☐	A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL
☐	A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
☐	A62D	EXCAVATION AND BACKFILL CONCRETE PIPE CULVERTS
☐	A62DA	EXCAVATION AND BACKFILL CONCRETE PIPE CULVERTS INDIRECT DESIGN METHOD
☐	A62E	EXCAVATION AND BACKFILL CAST-IN-PLACE REINFORCED CONCRETE BOX AND ARCH CULVERTS
☐	A62F	EXCAVATION AND BACKFILL METAL AND PLASTIC CULVERTS
☐	A62G	EXCAVATION AND BACKFILL PRECAST REINFORCED CONCRETE BOX CULVERTS
☐	A73A	OBJECT MARKERS
☐	A73B	MARKERS
☐	A73C	DELINEATORS, CHANNELIZERS, AND BARRICADES
☐	A74	SURVEY MONUMENTS
☐	A78A	THRIE BEAM BARRIER STANDARD RAILING SECTION (WOOD POST WITH WOOD BLOCK)
☐	A78C1	THRIE BEAM BARRIER STANDARD HARDWARE DETAILS
☐	A78C2	THRIE BEAM BARRIER POST AND BLOCK DETAILS
☐	A78E1	SINGLE THRIE BEAM BARRIER END ANCHOR ASSEMBLY AND TERMINAL SYSTEM END TREATMENT
☐	A81C	CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)
☐	A85	CHAIN LINK FENCE
☐	A86	BARBED WIRE AND WIRE MESH FENCES
☐	A87A	CURBS AND DRIVEWAYS
■	A87B	HOT MIX ASPHALT DIKES
■	A88A	CURB RAMP DETAILS
☐	B3-7A	RETAINING WALL TYPE 6 (CASE 1)
☐	B3-7C	RETAINING WALL TYPE 6 DETAILS
☐	D73	DRAINAGE INLETS
☐	D74A	DRAINAGE INLETS
☐	D74B	DRAINAGE INLETS
☐	D74C	DRAINAGE INLET DETAILS
☐	D75A	STEEL PIPE INLETS
☐	D75B	CONCRETE PIPE INLETS
☐	D75C	PIPE INLETS LADDER AND TRASH RACK DETAILS
☐	D77A	GRATE DETAILS No. 1
☐	D77B	GRATE DETAILS No. 2
☐	P74	PAVEMENT EDGE TREATMENTS
☐	P75	PAVEMENT EDGE TREATMENTS - OVERLAYS
☐	P76	PAVEMENT EDGE TREATMENTS - NEW CONSTRUCTION
☐	T1A	TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)
☐	T1B	TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)
☐	T2	TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)
☐	T3	TEMPORARY RAILING (TYPE K)
☐	T56	TEMPORARY FIBER ROLL
☐	T57	TEMPORARY CHECK DAM
☐	T61	TEMPORARY DRAINAGE INLET PROTECTION
☐	T65	TEMPORARY HIGH-VISIBILITY FENCE

CONSTRUCTION AND TOPOGRAPHIC LINES

GFL — GFL

CUT & FILL

R/W — EXIST R/W

PROPOSED R/W

SAWCUT

9+80 9+90 10+00 10+10 10+20 — STATION LINE

GRADE BREAK

ORIGINAL GROUND (OG)

GENERAL NOTES

1. THE DIMENSIONS SHOWN ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE CALTRANS STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS THERETO.
2. CALTRANS STANDARD SPECIFICATIONS - 2015 EDITION
3. SAW-CUT AND DEMOLITION AREAS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO DEMOLITION. ANY ADDITIONAL DEMOLITION SHALL BE APPROVED BY THE ENGINEER.
4. THE CONTRACTOR SHALL COORDINATE WITH ANY UTILITY COMPANIES THAT REQUIRE THEIR FACILITIES TO BE ADJUSTED TO GRADE. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING EACH SITE AND IDENTIFYING ANY UTILITIES THAT MAY REQUIRE ADJUSTMENT. ANY UNFORESEEN DELAY SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY IN WRITING.
5. APPLY TACK COAT TO EXISTING AC PRIOR TO PAVING, INCLUDING VERTICAL JOINTS.

ABBREVIATIONS

AB	AGGREGATE BASE	DO	DRAINAGE OUTLET	MAX	MAXIMUM	RW	RETAINING WALL
ABUT	ABUTMENT(S)	DWY	DRIVEWAY	MB	METAL BEAM	R/W	RIGHT OF WAY
AC	ASPHALT CONCRETE	E	EAST, EASTING	MGS	METAL BEAM GUARD RAILING	S	SLOPE/SOUTH
ALIGN	ALIGNMENT	EA	EACH	MH	MANHOLE	SALV	SALVAGE
ALT	ALTERNATIVE	EASE	EASEMENT	MI	MILE (S)	SB	SOUTH BOUND LANE
AP	ANGLE POINT	EB	END OF BRIDGE	MIN	MINIMUM	SEC	SECTION
APCH	APPROACH	E/B	EAST BOUND	MISC	MISCELLANEOUS	SDWK	SIDEWALK
APPROX	·····	EC	END HORIZONTAL CURVE	MOD	MODIFY (IED)	SH	STATE HIGHWAY
AS	AGGREGATE SUBBASE	ECR	END CURB RETURN	MON	MONUMENT	SHLDR	SHOULDER
ASSY	ASSEMBLY	ED	END DIKE	MP	MILE POST	SHT	SHEET
AVE	AVENUE	ELEV	ELEVATION	MPH	MILES PER HOUR	S/L	SECTION LINE
BB	BEGINNING OF BRIDGE	(ELEV)	EXISTING ELEVATION	MR	MOVEMENT RATING	SP	STANDPIPE
BC	BEGIN HORIZONTAL CURVE	EMB	EMBANKMENT	MTL	MATERIAL	SQ	SQUARE
BCM	BRASS CAP MONUMENT	EP	EDGE OF PAVEMENT	N	NORTH, NORTHING	SQFT	SQUARE FOOT (FEET)
BCR	BEGIN CURB RETURN	EQ	EQUAL	N/A	NOT APPLICABLE	SQ IN	SQUARE INCH
BEG	BEGIN(ING)	ES	EDGE OF SHOULDER	NB	NORTH BOUND LANE	ST	STREET
BKF	BACKFILL	ETW	EDGE OF TRAVEL LANE	NO (#)	NUMBER	STA	STATION
BLDG	BUILDING	EVC	END VERTICAL CURVE	NS	NATIVE SOIL	STD	STANDARD
BLVD	BOULEVARD	EW	ENDWALL	OC	ON CENTER	STR	STRUCTURE (S)
BM	BENCH MARK	EXC	EXCAVATION	OD	OUTSIDE DIAMETER	SURF	SURFACING
BR	BRIDGE	EXIST / (E)	EXISTING	OG	ORIGINAL GROUND	STP	STEEL PIPE
BRG	BEARING	EXP JT	EXPANSION JOINT	PB	PULL BOX	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
BVC	BEGIN VERTICAL CURVE	FCBCM	FRESNO COUNTY BCM	PBS	PULV BIT SURF		
BW	BARBED WIRE	FES	FLARED END SECTION	PE	POLYETHYLENE	TAN OFF	TANGENT OFFSET
CC	CENTER TO CENTER	FFW	FRONT FACE OF WALK	PCC	PORTLAND CEMENT CONCRETE	TBM	TEMPORARY BM
CF	CUBIC FOOT (FEET)	FG	FINISHED GRADE	PERM	PERMEABLE	TCE	TEMPORARY CONSTRUCTION EASEMENT
CFS	CUBIC FEET PER SECOND	FL	FLOW LINE	PG	PROFILE GRADE	TCP	TEMPORARY CONST PERMIT
C & G	CURB AND GUTTER	FRE	FRESNO	PI	POINT OF INTERSECTION	TBC	TOP BACK OF CURB
CHNL	CHANNEL	FT	FOOT (FEET)	PL	PLATE	TBW	TOP BACK OF WALK
CIDH	CAST-IN DRILLED HOLE	GAL	GALLON (S)	P/L	PROPERTY LINE	TFC	TOP FACE OF CURB
CIP	CAST IRON PIPE	GV	GAS VALVE	PM	POST MILE	TFP	TRANSFORMER POLE
CIPCP	CAST-IN-PLACE CONCRETE PIPE	GFL	GUTTER FLOW LINE	POC	POINT ON CURVE	TOT	TOTAL
C/L (℄)	CENTER LINE	GB	GRADE BREAK	POT	POINT ON TANGENT	TP	TELEPHONE POLE
CL	CHAIN LINK	GP	GRADING PLANE	PP	POWER POLE	TCB	TRAFFIC CONTROL BOX
CLR	CLEAR (ING), CLEARANCE	GRUB	GRUBBING	PRF	PAVEMENT REINFORCING FABRIC	TRANS	TRANSITION
CMP	CORRUGATED METAL PIPE	GW	GUY WIRE	PSF	POUNDS PER SQUARE FOOT	TS	TRAFFIC SIGNAL
CMPA	CORRUGATED METAL PIPE ARCH	HMA	HOT MIXED ASPHALT	PSI	POUNDS PER SQUARE INCH	TYP	TYPICAL
CNS	COMPACTED NATIVE SOIL	HORIZ	HORIZONTAL	PT	PEDESTAL TELEPHONE OR POINT	TYP SEC	TYPICAL SECTION
CNL	CLEAN NEAT LINE	HP	HINGE POINT	PNT	POINT	UG	UNDERGROUND
CO	COUNTY	HS	HIGH STRENGTH	PRC	POINT OF REVERSE CURVATURE	UD	UNDERDRAIN
COMM	COMMERCIAL	HW	HEAD WALL	PULV	PULVERIZED	UDR	UNDERDRAIN RISER
CONC	CONCRETE	HWM	HIGH WATER MARK	PVC	POLYVINYL CHLORIDE	VAR	VARIES (ABLE)
CONST	CONSTRUCT (ION)	HWY	HIGHWAY	RVMT	PAVEMENT	VC	VERTICAL CURVE
CONT	CONTINUOUS	IP	IRON PIPE	R	RADIUS	VCP	VITRIFIED CLAY PIPE
CP	CONCRETE PIPE	IRR	IRRIGATION	RCB	REINFORCED CONCRETE BOX	VERT	VERTICAL
CR	CURB RAMP	IV	IRRIGATION VALVE	RCP	REINFORCED CONCRETE PIPE	W	WEST
CSP	CORRUGATED STEEL PIPE	JP	JOINT POLE	RD	ROAD	W/B	WEST BOUND
CSPA	CORRUGATED STEEL PIPE ARCH	JT	JOINT	REINF	REINFORCED (MENT) (ING)	WM	WATER METER
CA TV	CABLE TELEVISION	LBS	POUNDS	REL	RELOCATE	WP	WORKING POINT
CULV	CULVERT	LF	LINEAR FOOT	RET	RETAINING	WPC	WATER POLLUTION CONTROL
CY (CU YD)	CUBIC YARD(S)	LOC	LOCATION	RLG	ROCK LINED GUTTER	WV	WATER VALVE
DI	DRAINAGE INLET	LOL	LAYOUT LINE	RR	RAILROAD	WW	WINGWALL
DIA	DIAMETER	LP	LIMIT OF PAYMENT	RSP	ROCK SLOPE PROTECTION	YR	YEAR
DIR	DIRECTION	LS	LUMP SUM	RT	RIGHT		
DIST	DISTANCE	LT	LEFT	RTE	ROUTE		

CONSTRUCTION SYMBOLS

- A — TYPE "A" CURB
- B3 — TYPE "B3" CURB
- FA — TYPE "FA" CURB
- CE — FA CURB EXTENSION
- CS — COMMERCIAL SIDEWALK
- RD — RESIDENTIAL SIDEWALK
- AS STA W — ADJACENT RES SIDEWALK
- HW STA D — CONCRETE HOUSEWALK
- VG STA D — VALLEY GUTTER
- MB STA — MAIL BOX
- W STA D — CONCRETE DRIVEWAY
- W STA D ···AC DRIVEWAY
- W STA D ···DIRT DRIVEWAY
- W STA D — MODIFY CONC DRIVEWAY
- "W" — DENOTES WIDTH
- "D" — DENOTES MATCH DISTANCE
- ·· ····· — DENOTES SKEW ANGLE
- DI TC STA — DRAINAGE INLET
- DO TC STA — DRAINAGE OUTLET
- MH STA OFFSET — INSTALL MANHOLE
- WV STA OFFSET — INSTALL WATER VALVE
- MH — ADJUST MANHOLE
- AV STA OFFSET — ADJUST AIR RELEASE VALVE
- WV — ADJUST WATER VALVE
- DD — 2" AC DEPRESSED DIKE
- ID — 4" AC INTERMEDIATE DIKE
- D — 6" AC DIKE
- R — RADIUS
- "R" — DENOTES RADIUS IN FEET

- SM — SURVEY MONUMENT
- CC — CONCRETE COLLAR
- GM — GRADE MATCH
- SC — SAW CUT
- OD STA L — OVERSIDE DRAIN
- S — MISC TRAFFIC SIGN
- SS — STOP SIGN
- MB — MAIL BOX
- "L" — DENOTES LENGTH IN FEET
- SECTION CORNER
- MA — PLACE AC , MISC AREA
- DIRECTION OF FLOW
- GRADE TO FLOW
- CHAIN LINK FENCE
- WIRE FENCE
- DAYLIGHT LIMIT
- L — GP AND LP ROADWAY EXC
- X / X — SHEET NO. / DWG. NO. — REFERENCE TO STATE STANDARD PLAN DETAIL
- X / X — SHEET NO. / DWG. NO. — REFERENCE TO DETAIL ON DWG. OR DETAIL TITLE
- X / X — SHEET NO. / DWG. NO. — SECTION CUT
- DETECTABLE WARNING SURFACE PER CALTRANS STANDARD PLAN A88A

EXISTING IMPROVEMENTS

- A — TYPE "A" CURB
- B3 — TYPE "B3" CURB
- FA — TYPE "FA" CURB
- CS — COMM SIDEWALK
- SS — ROADSIDE SIGN
- RS — RES SIDEWALK
- VG — VALLEY GUTTER
- SM — SURVEY MON
- MB — MAIL BOX
- STOP SIGN
- WIRE FENCE
- CHAIN LINK FENCE
- METAL FENCE
- WOOD FENCE
- PVC FENCE
- MISC LANDSCAPING

UTILITY NOTES

1. LOCATIONS OF EXISTING UNDERGROUND FACILITIES ARE APPROXIMATE EXACT DEPTH AND LOCATIONS ARE UNKNOWN. FIELD LOCATE PRIOR TO THE START OF CONSTRUCTION.

CALL UNDERGROUND SERVICE ALERT (USA) 811

UTILITY SYMBOLS

- STAND PIPE
- IRR UG PIPE FLOW
- IRR UG PIPE CAPPED
- IRR VALVE SCREWGATE
- IRR TOP GATE VALVE
- IRR PIPE 12" VERTICAL
- VENT PIPE
- IRR VALVE - BUBBLER
- IRR VALVE, DRIP SYSTEM
- IRR PIPE 4" VERT OUTLET
- WATER WELL
- WATER WELL PUMP
- WATER STORAGE TANK
- FIRE HYDRANT
- IRR 2"-4" PIPE RISER
- HOSE BIB
- MH-STORM DRAIN
- MH-ELECTRICAL
- MH-FO/CABLE
- MH-GAS
- MH-SANITARY SWR
- MH-TELEPHONE
- MH-WATER
- ELEC METER
- ELECTRIC VAULT
- CHRISTY BOX
- TELEPHONE VAULT
- GAS METER
- GAS VALVE
- GAS VAULT
- WATER METER
- WATER VALVE
- C — UG CABLE
- D — UG STORM DRAIN LINE
- E — UG ELECTRIC LINE
- FO — UG FIBER OPTIC
- G — UG GAS LINE
- S — UG SANITARY SEWER
- T — UG TELEPHONE LINE
- W — UG WATER LINE
- OHE — OVERHEAD ELEC LINE
- OHT — OVERHEAD TELE LINE
- MH-GASOLINE FILLER
- GASOLINE VENT PIPE
- GASOLINE PUMP
- CLEAN OUT
- BACKFLOW PREVENTER
- SPRINKLER
- STREET LIGHT POLE
- EXISTING SIGNAL POLE
- STORM DRAIN DROP INLET
- STORM DRAIN GRATE
- STEEL DRAIN PIPE
- DOWN DRAIN
- C WARNING SIGN
- D WARNING SIGN
- E WARNING SIGN
- FO WARNING SIGN
- G WARNING SIGN
- S WARNING SIGN
- T WARNING SIGN
- W WARNING SIGN
- ELECTRIC PULL BOX
- PEDESTAL-TELEPHONE

EXISTING

- TELEPHONE POLE
- POWER POLE
- JOINT POLE
- JOINT TRANSFORMER POLE
- TRANSFORMER POLE
- GUY POLE
- GUY WIRE

LS-1

	DATE	RECORD DRAWING		DATE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER		
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: NO SCALE

SUPERVISING ENGINEER _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

LEGEND SHEET

DRAWING NO. 11278 SHEET NO. 2 TOTAL 64

NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR EXACT LOCATIONS OF PAVEMENT TRANSITIONS, DRIVEWAYS, DITCHES, HMA DIKES, FENCE AND MGS, SEE LAYOUTS.
3. SEE SUPERELEVATION DIAGRAM WHERE CROSS SLOPE VARIES.
4. SUBGRADE TO BE THE SAME AS TYPICAL SURFACE SLOPE UNLESS OTHERWISE NOTED.
5. FOR NARROW INSTALLATION OF MGS, SEE CALTRANS STANDARD PLAN A77N3.

LEGEND:

[1] 0.40' HMA (TYPE A)
0.55' CLASS 2 AGGREGATE BASE

[2] 0.17' HMA (TYPE A)
0.50' SCARIFIED NATIVE SOIL COMPACTED TO 90% RELATIVE COMPACTION.

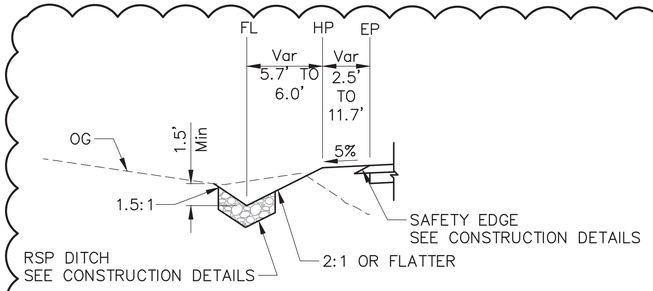
TOLLHOUSE ROAD DESIGN DESIGNATION

ROAD CLASSIFICATION	MINOR COLLECTOR (RURAL)
ADT	1600 (2006)
DESIGN SPEED	30 MPH
TRUCKS	2%

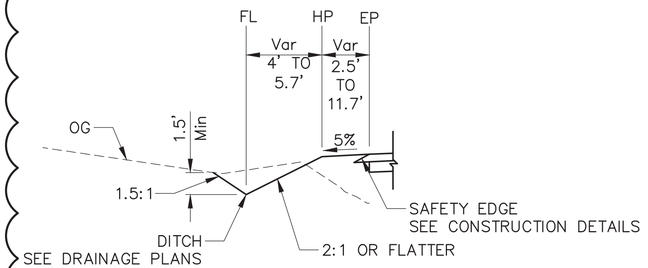
BURROUGH VALLEY ROAD DESIGN DESIGNATION

ROAD CLASSIFICATION	MAJOR COLLECTOR (RURAL)
ADT	1100 (2010)
ADT	1320 (2030)
DESIGN SPEED	35 MPH
TRUCKS	9%

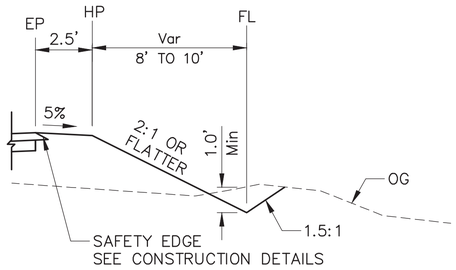
3 REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023



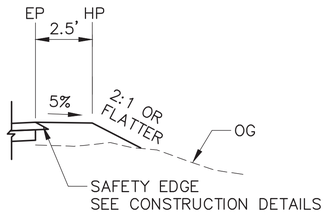
"T" 22+23.57 TO "T" 22+59.43



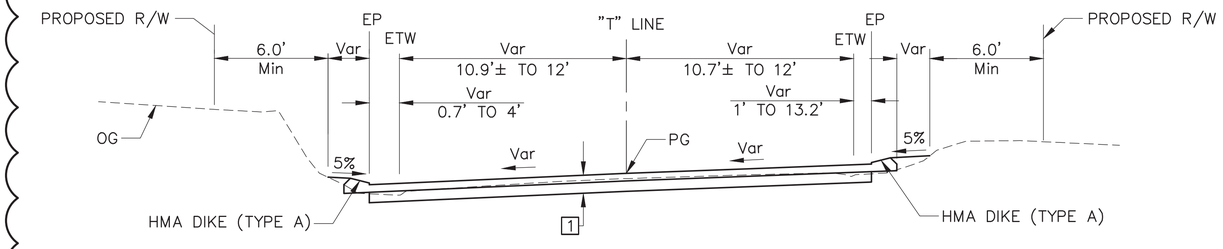
"T" 21+70.00 TO "T" 22+23.57



"T" 21+41.36 TO "T" 22+59.43



"T" 20+61.36 TO "T" 21+41.36



"T" 20+20.00 TO "T" 22+59.43

TOLLHOUSE ROAD

3

X-1

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	NO SCALE
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER ____ DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

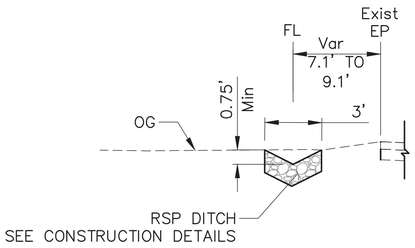
ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

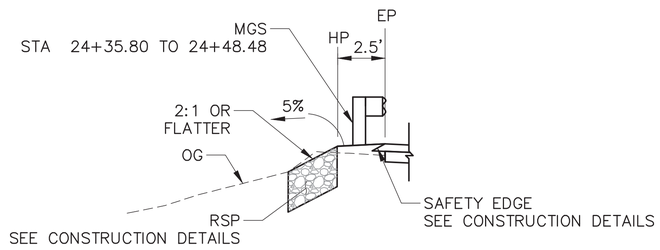
DEPARTMENT OF PUBLIC WORKS AND PLANNING

TYPICAL CROSS SECTIONS

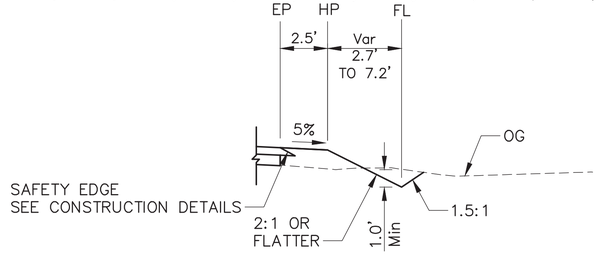
DRAWING NO. 11278 SHEET NO. 3 TOTAL 64



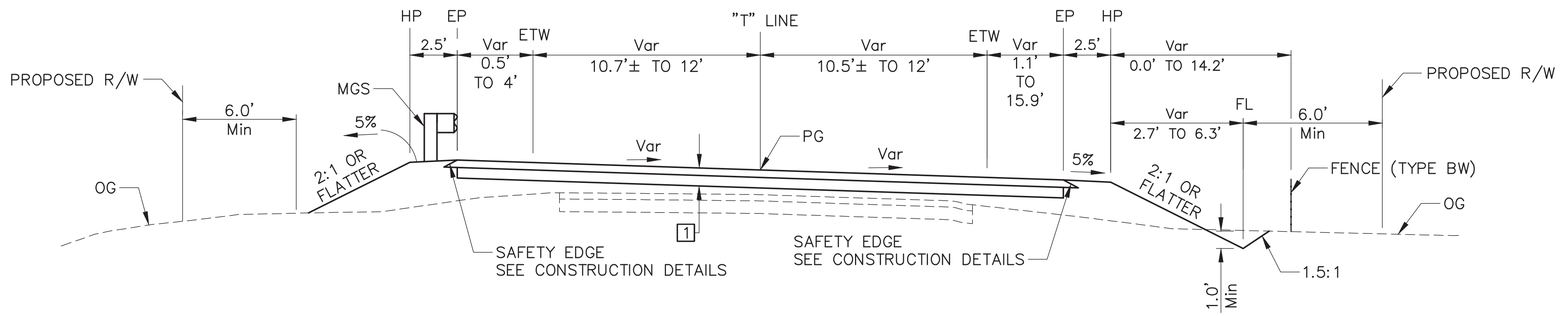
"T" 245+00.00 TO "T" 25+37.22



"T" 24+35.80 TO "T" 25+00.00

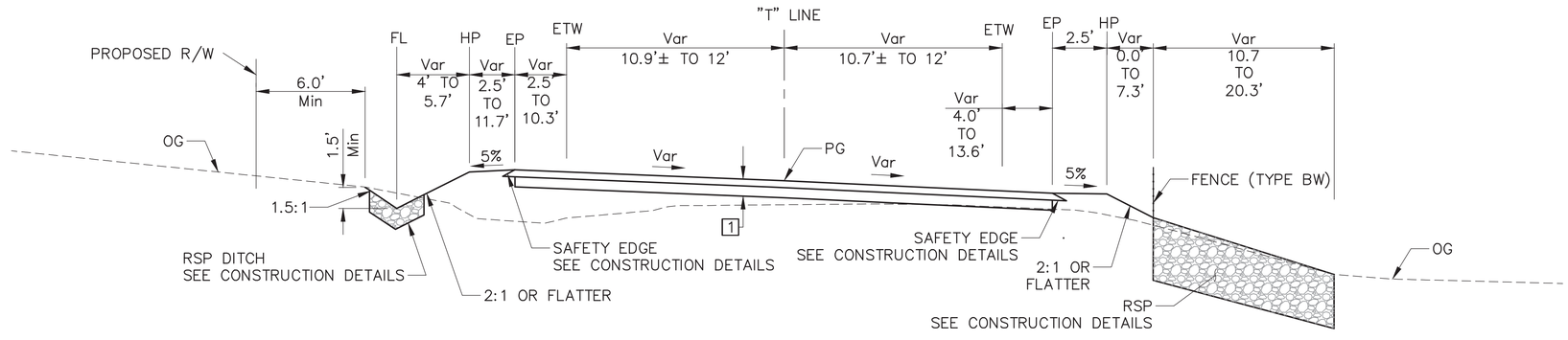


"T" 24+38.79 TO "T" 25+00.00



"T" 23+68.56 END CULVERT TO "T" 25+00.00

TOLLHOUSE ROAD



3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**

"T" 22+59.43 TO "T" 23+40.27 BEGIN CULVERT

TOLLHOUSE ROAD

3

X-2

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	NO SCALE
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

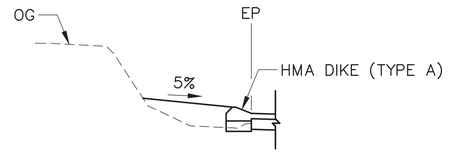
ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

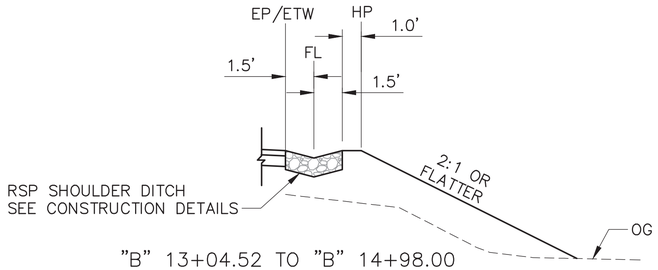
DEPARTMENT OF PUBLIC WORKS AND PLANNING

TYPICAL CROSS SECTIONS

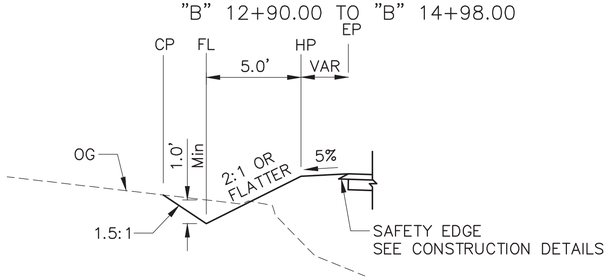
DRAWING NO. 11278 — SHEET NO. 4 — TOTAL 64



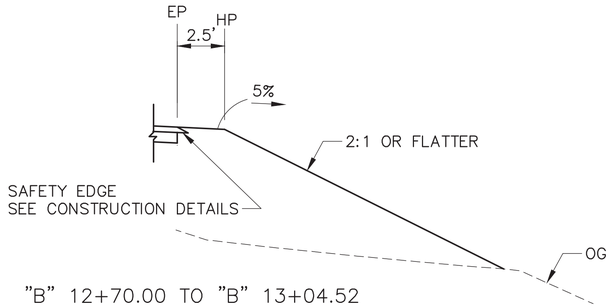
"B" 12+90.00 TO "B" 14+98.00



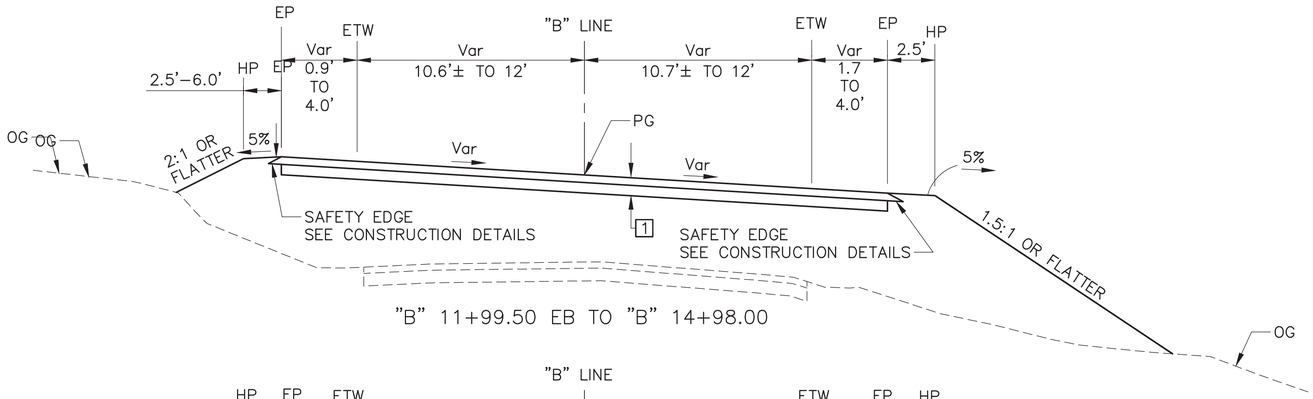
"B" 13+04.52 TO "B" 14+98.00



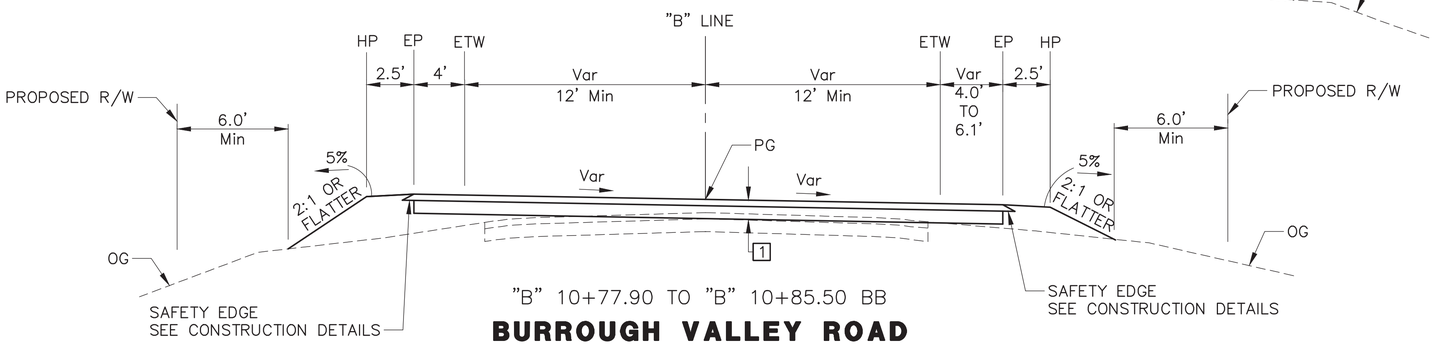
"B" 12+35.20 EB TO "B" 12+90.00



"B" 12+70.00 TO "B" 13+04.52

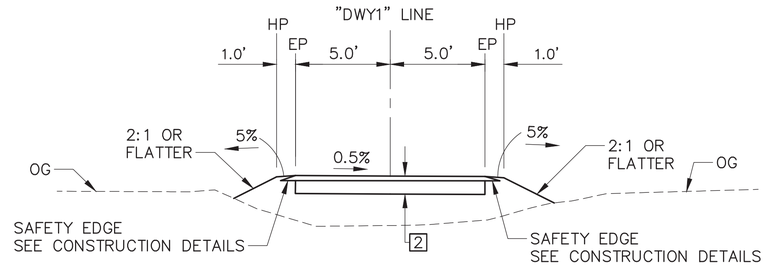


"B" 11+99.50 EB TO "B" 14+98.00



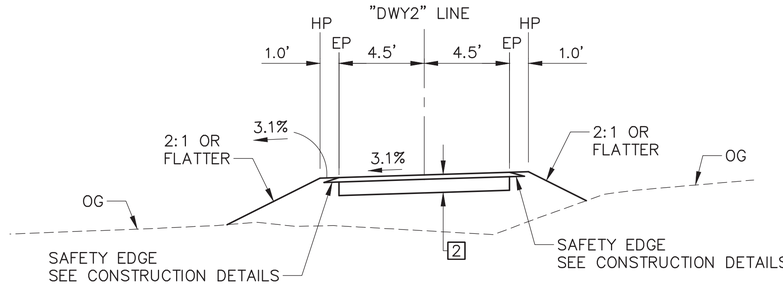
"B" 10+77.90 TO "B" 10+85.50 BB

BURROUGH VALLEY ROAD



"DWY1" 1+19.76 TO "DWY1" 1+49.40

"DWY1" LINE



"DWY2" 1+30.62 TO "DWY2" 1+78.21

"DWY2" LINE

X-3

	DATE	RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	NO SCALE	SUPERVISING ENGINEER / DATE	DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD	THE COUNTY OF FRESNO	TYPICAL CROSS SECTIONS
DRAWN: G. DANKE	11/2/22							
CHECKED: G. GROSS	11/2/22					ROAD NO. / BRIDGE NO. 42C0710 / 42C0711		DRAWING NO. 11278 SHEET NO. 5 TOTAL 64

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

NOTE:

FOR ACCURATE RIGHT–OF–WAY DATA, CONTACT COUNTY OFFICE.

BASIS OF BEARINGS:

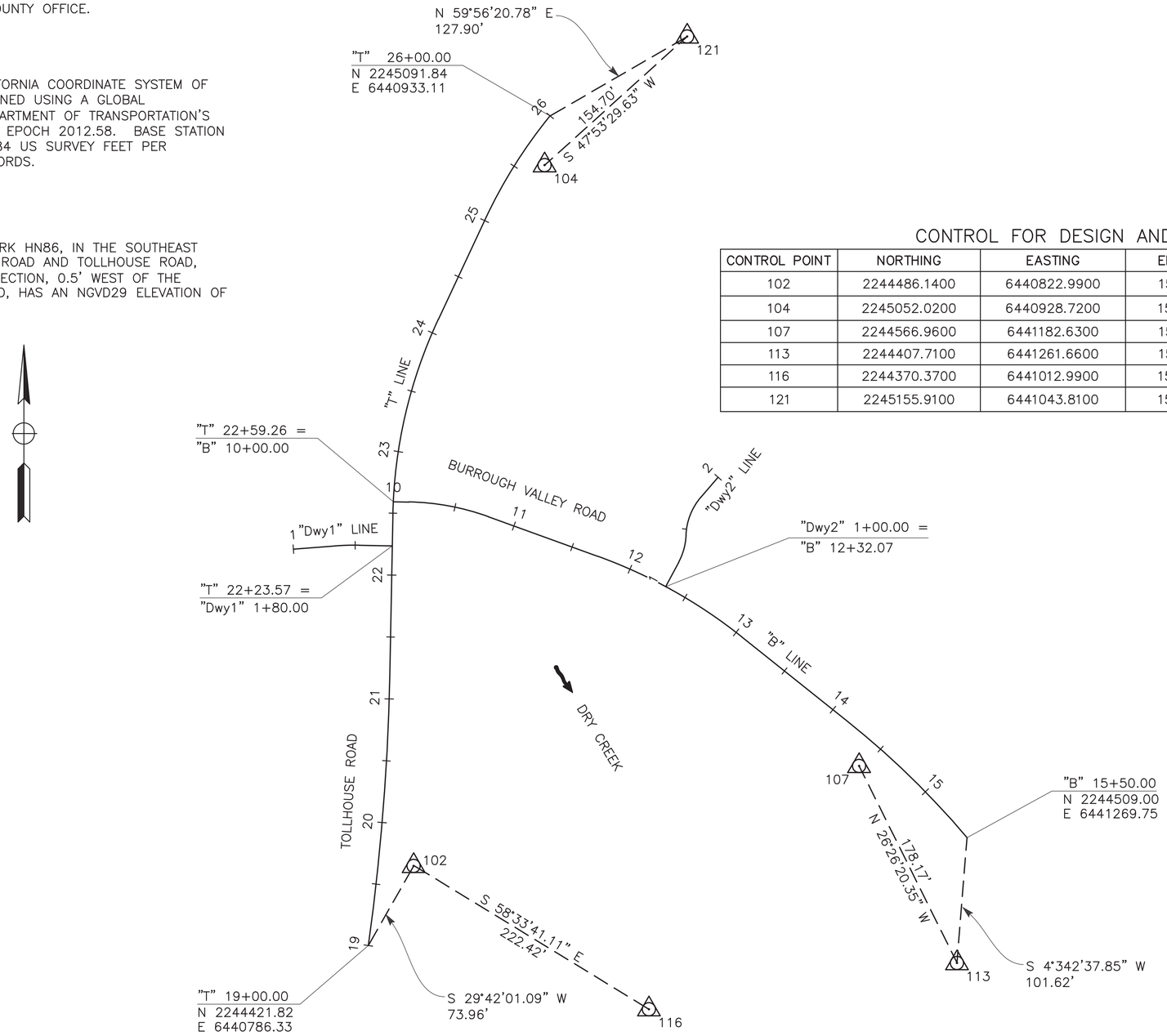
COORDINATES IN THIS PROJECT ARE ON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 4. POSITIONS WERE DETERMINED USING A GLOBAL POSITIONING SYSTEM TIED TO THE CALIFORNIA DEPARTMENT OF TRANSPORTATION'S CENTRAL VALLEY SPATIAL REFERENCE NETWORK AT EPOCH 2012.58. BASE STATION "RAPT" WAS HELD AT N2125482.786, E6430069.984 US SURVEY FEET PER CALIFORNIA DEPARTMENT OF TRANSPORTATION RECORDS.

BASIS OF ELEVATIONS:

FRESNO COUNTY BRASS CAP MONUMENT BENCHMARK HN86, IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF PITMAN HILL ROAD AND TOLLHOUSE ROAD, 68.5' SOUTHEAST OF THE CENTER OF SAID INTERSECTION, 0.5' WEST OF THE SOUTHWEST CORNER OF A CONCRETE MAILBOX PAD, HAS AN NGVD29 ELEVATION OF 1028.85 FEET PER FRESNO COUNTY RECORDS.

LEGEND:

△ SURVEY CONTROL POINT



CONTROL FOR DESIGN AND CONSTRUCTION

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
102	2244486.1400	6440822.9900	1552.1900	REBAR/CAP
104	2245052.0200	6440928.7200	1558.9300	REBAR/CAP
107	2244566.9600	6441182.6300	1572.3100	REBAR/CAP
113	2244407.7100	6441261.6600	1575.1200	TEMP PT HUB AND TACK
116	2244370.3700	6441012.9900	1563.5400	TEMP PT NAIL
121	2245155.9100	6441043.8100	1570.5000	TEMP PT NAIL

APPROVED FOR PROJECT CONTROL INFORMATION ONLY

PC-1

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 20' 40'

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

PROJECT CONTROL

DRAWING NO. 11278 SHEET NO. 6 TOTAL 64

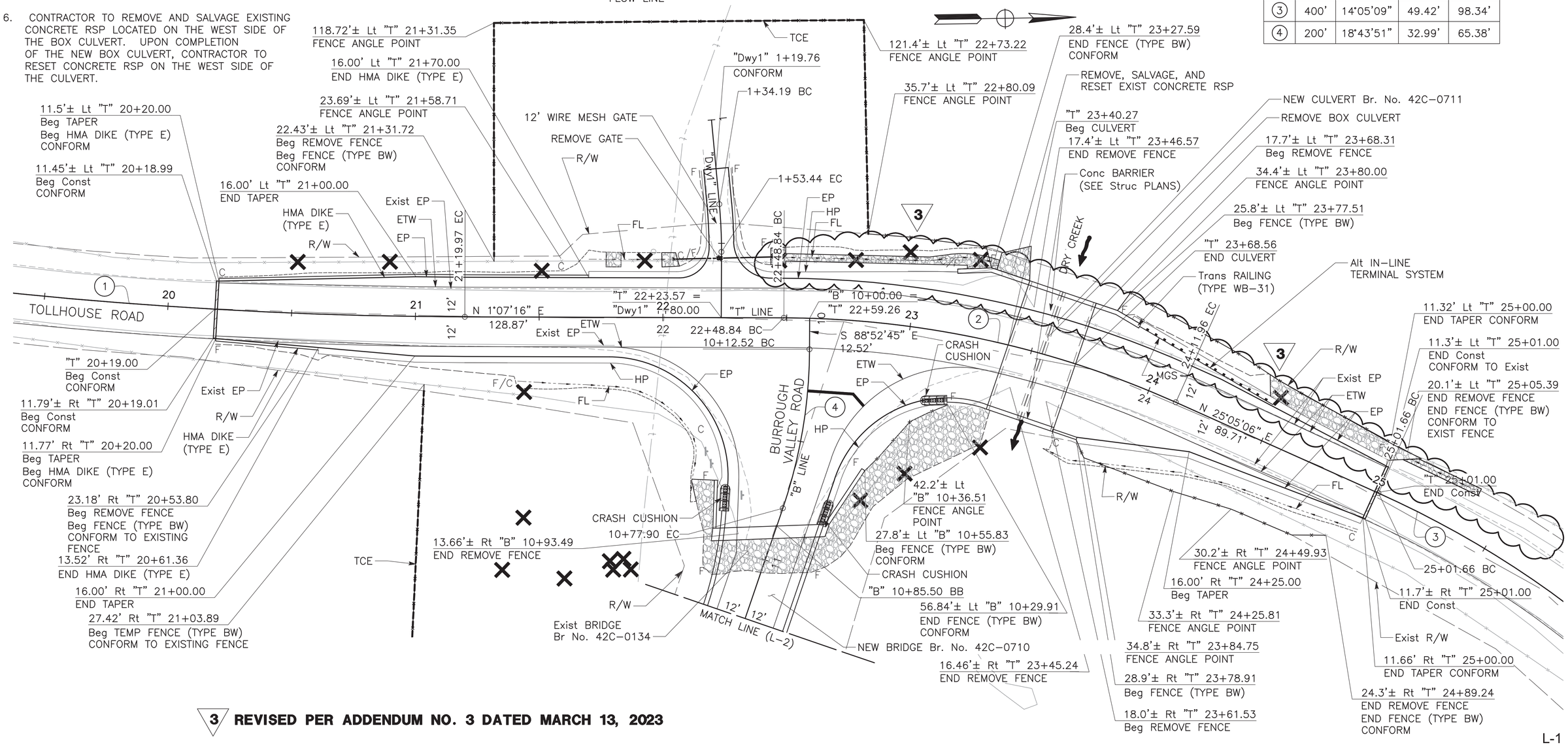
NOTES:

1. FOR ACCURATE RIGHT–OF–WAY DATA, CONTACT COUNTY OFFICE.
2. UTILITIES SHOWN ARE APPROXIMATE.
3. ALL STATION/OFFSET CALLOUTS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
4. FOR DETAILS NOT SHOWN, SEE CONSTRUCTION DETAILS SHEETS.
5. STUMP LOCATIONS AND QUANTITIES SHOWN ARE APPROXIMATE.
6. CONTRACTOR TO REMOVE AND SALVAGE EXISTING CONCRETE RSP LOCATED ON THE WEST SIDE OF THE BOX CULVERT. UPON COMPLETION OF THE NEW BOX CULVERT, CONTRACTOR TO RESET CONCRETE RSP ON THE WEST SIDE OF THE CULVERT.

LEGEND:

- C — CUT
- F — FILL
- PROPOSED RIGHT–OF–WAY (R/W)
- TEMPORARY CONSTRUCTION EASEMENT (TCE)
- PROPERTY LINE (P/L) AND EXISTING R/W
- FLOW LINE
- x x x — TEMPORARY FENCE (TYPE BW, 5–STRAND, METAL POST)
- HMA PAVEMENT TRANSITION
- ROCK SLOPE PROTECTION / ROCK LINED DITCH
- REMOVE STUMP

CURVE DATA				
No.	R	Δ	T	L
①	1850'	6°48'46"	110.12'	219.97'
②	390'	23°57'51"	82.77'	163.12'
③	400'	14°05'09"	49.42'	98.34'
④	200'	18°43'51"	32.99'	65.38'



3 REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023

L-1

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 20' 40'

SUPERVISING ENGINEER ____ DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

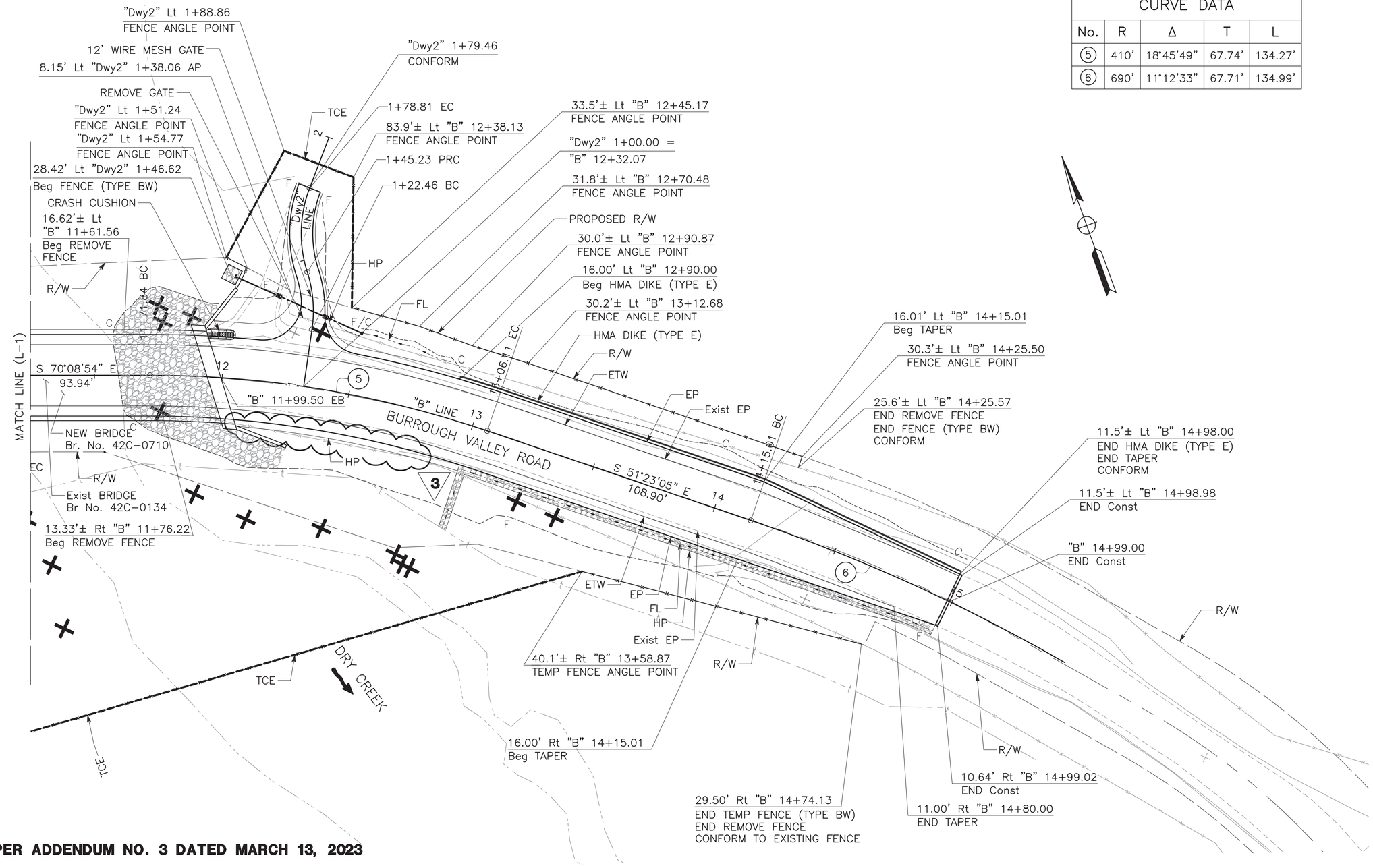
LAYOUT

DRAWING NO. 11278 SHEET NO. 7 TOTAL 64

NOTE:

FOR ACCURATE RIGHT–OF–WAY DATA, CONTACT COUNTY OFFICE.

CURVE DATA				
No.	R	Δ	T	L
⑤	410'	18°45'49"	67.74'	134.27'
⑥	690'	11°12'33"	67.71'	134.99'



3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**

L-2

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 20' 40'

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

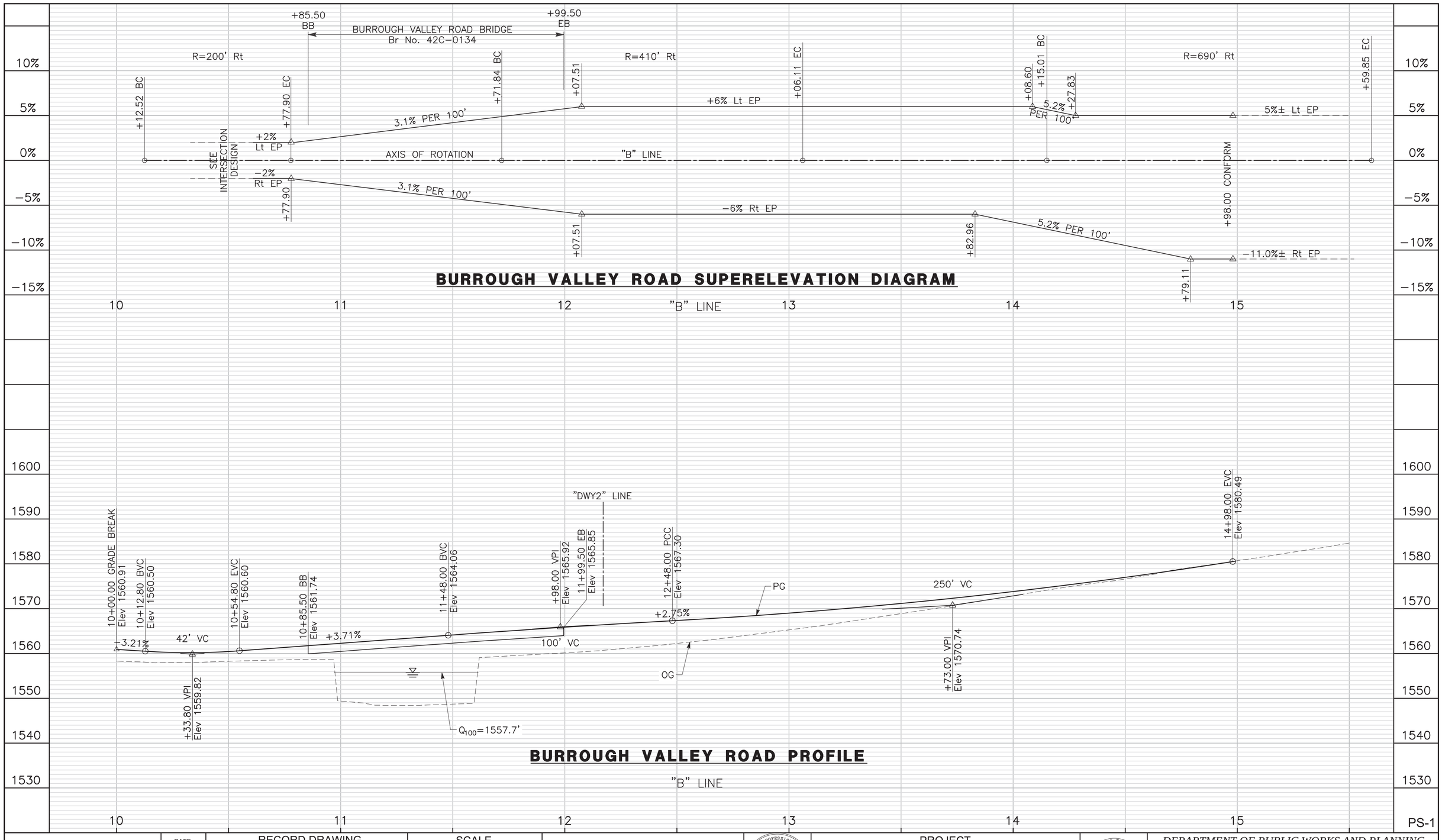
ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

LAYOUT

DRAWING NO. 11278 — SHEET NO. 8 — TOTAL 64



	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	PLAN 0 20' 40' HZ
DRAWN: G. DANKE	11/2/22			PROFILE 0 10' 20' VT
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

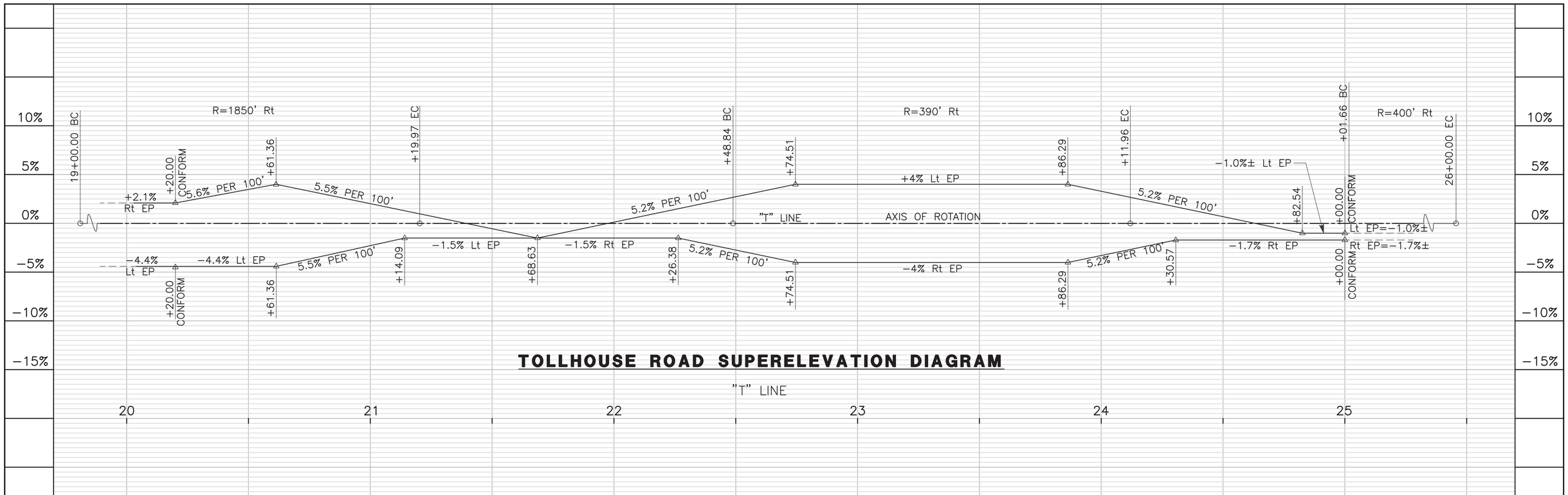
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

PROFILE AND SUPERELEVATION DIAGRAM

DRAWING NO. 11278 — SHEET NO. 9 — TOTAL 64

PS-1



TOLLHOUSE ROAD SUPERELEVATION DIAGRAM

"T" LINE

TOLLHOUSE ROAD PROFILE

"T" LINE

PS-2

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE

PLAN: 0 — 20' — 40' HZ

PROFILE: 0 — 10' — 20' VT

SUPERVISING ENGINEER ____ DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

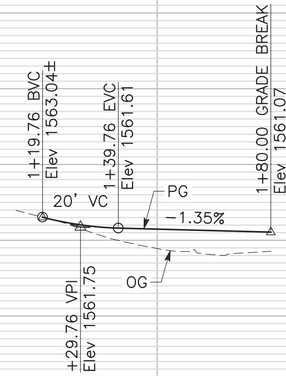
ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

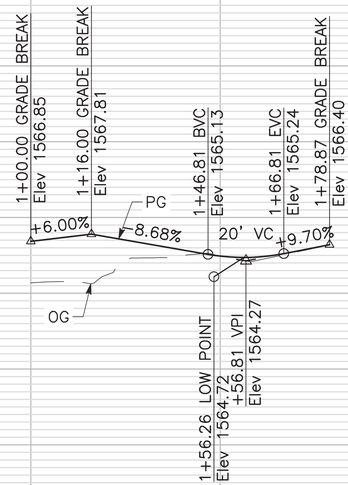
PROFILE AND SUPERELEVATION DIAGRAM

DRAWING NO. 11278 SHEET NO. 10 TOTAL 64



DRIVEWAY No. 1

"DWY1" LINE



DRIVEWAY No. 2

"DWY2" LINE

P-1

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE

PLAN 0 20′ 40′ HZ

PROFILE 0 10′ 20′ VT

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

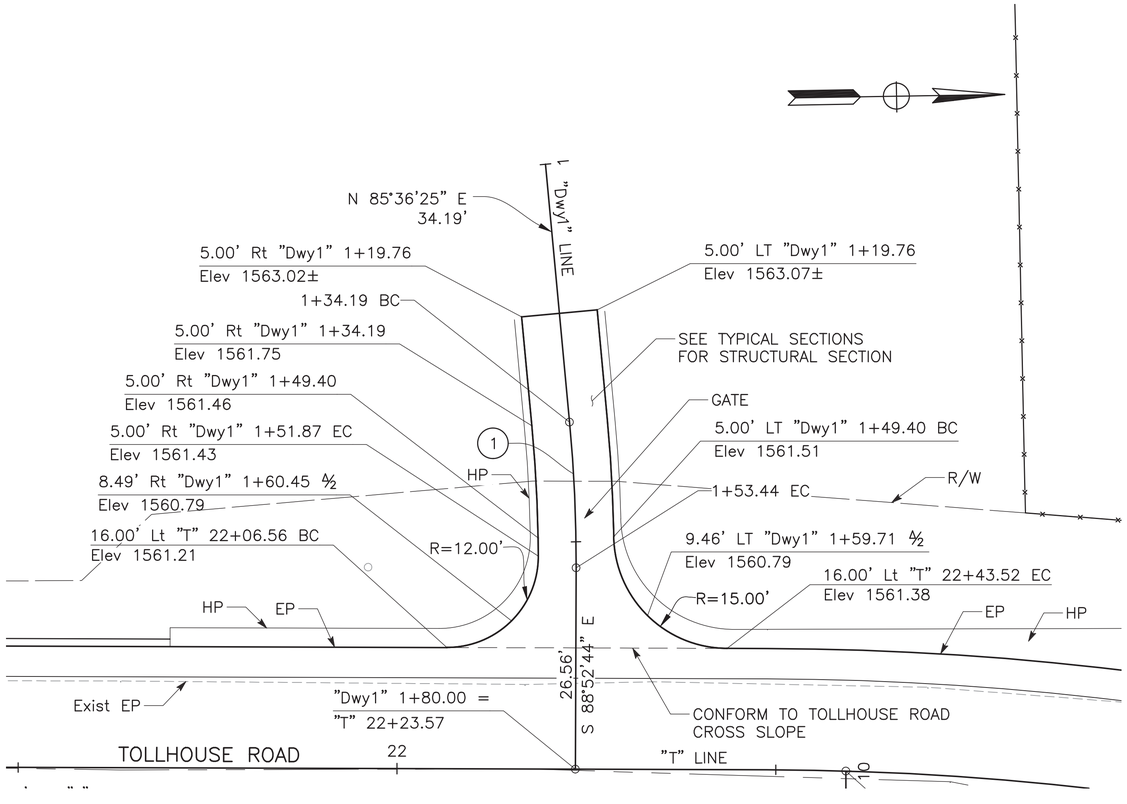
PROFILE

DRAWING NO. 11278 — SHEET NO. 11 — TOTAL 64

NOTES:

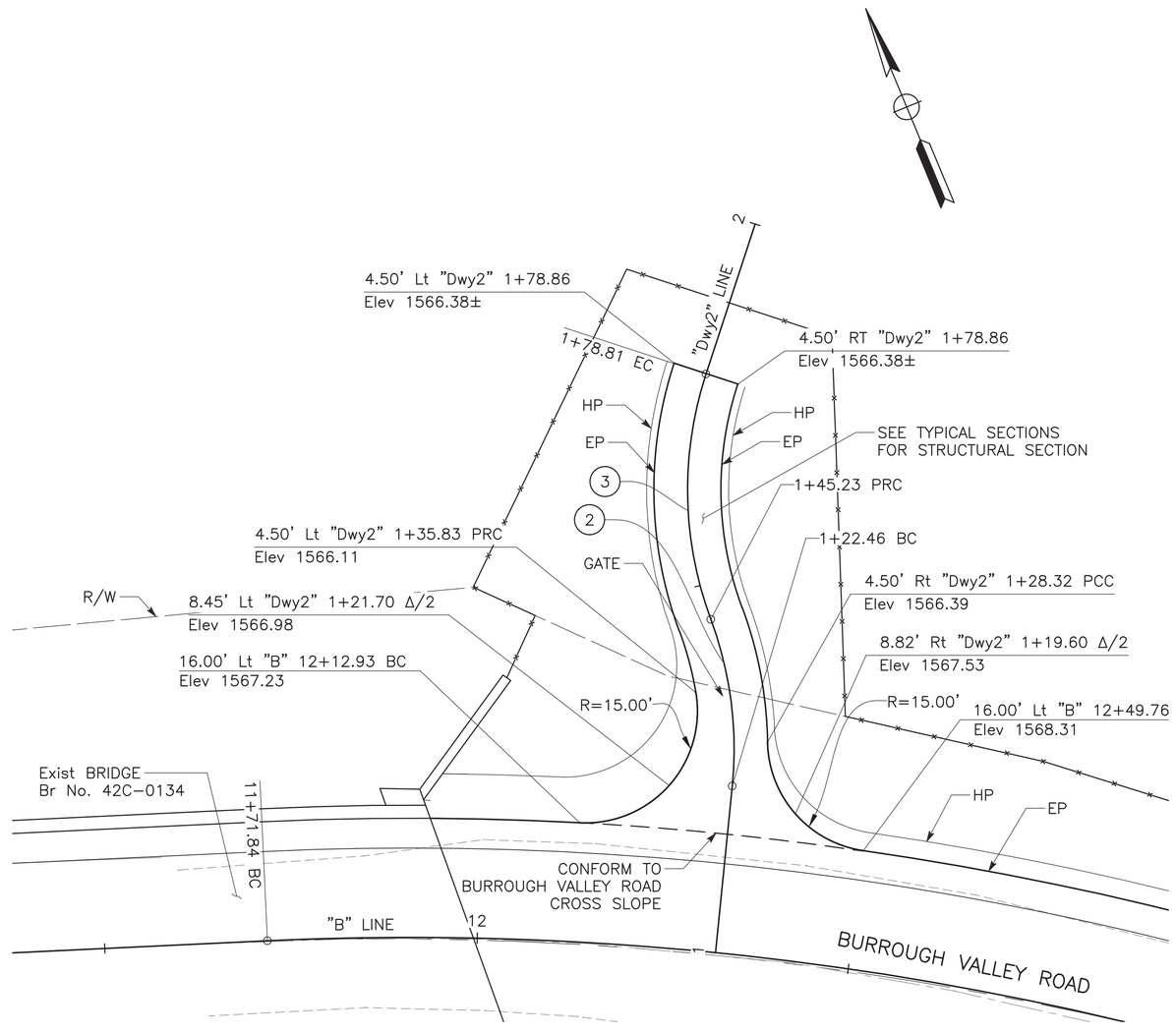
1. ALL STATION/OFFSET CALLOUTS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

CURVE DATA				
No.	R	Δ	T	L
(1)	200'	5°30'51"	9.63'	19.25'
(2)	50'	26°05'02"	11.58'	22.76'
(3)	50'	38°28'40"	17.45'	33.58'



DRIVEWAY No. 1 DETAIL

SCALE: 1"=10'



DRIVEWAY No. 2 DETAIL

SCALE: 1"=10'

C-1

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	NO SCALE
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

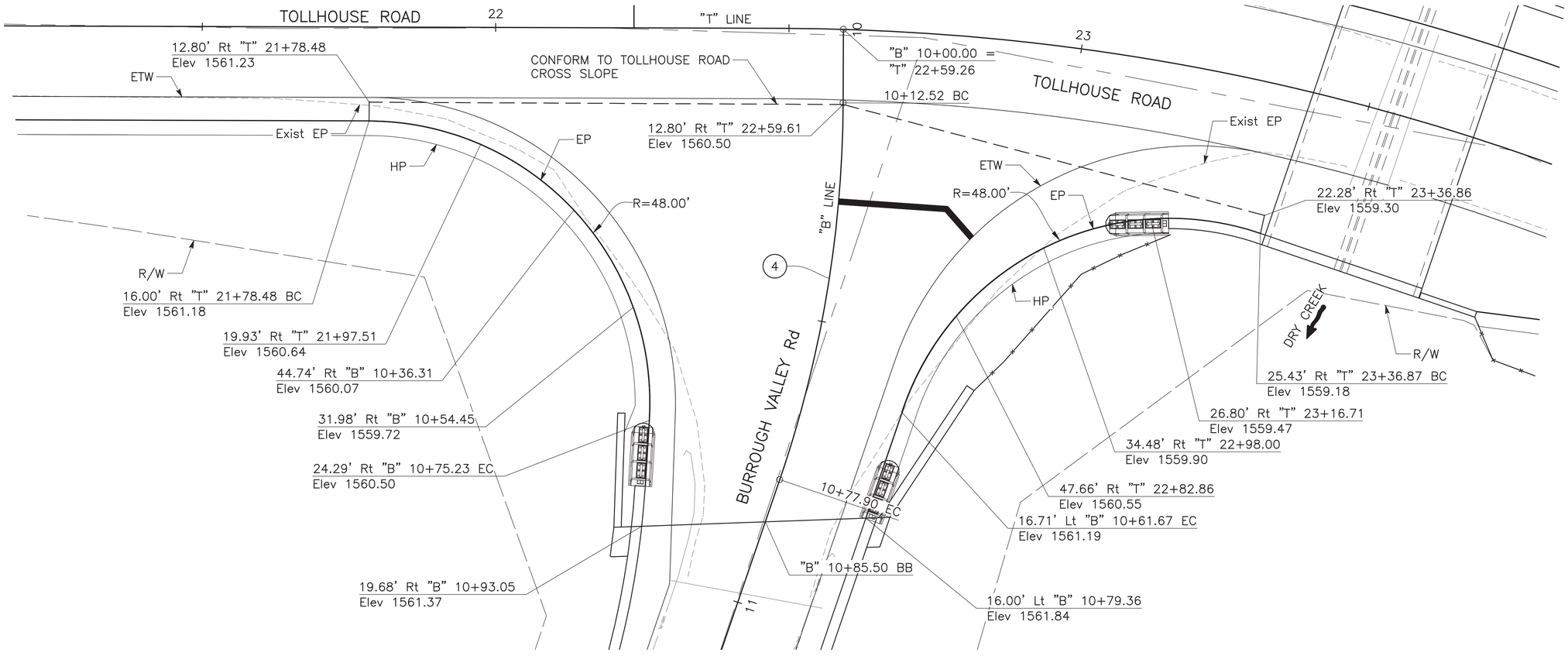
CONSTRUCTION DETAILS

DRAWING NO. 11278 — SHEET NO. 12 — TOTAL 64

NOTES:

1. ALL STATION/OFFSET CALLOUTS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

CURVE DATA				
No.	R	Δ	T	L
(4)	200'	18°43'51"	32.99'	65.38'



INTERSECTION DETAIL

SCALE: 1"=10'

C-2

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	NO SCALE
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION DETAILS

DRAWING NO. 11278 — SHEET NO. 13 — TOTAL 64

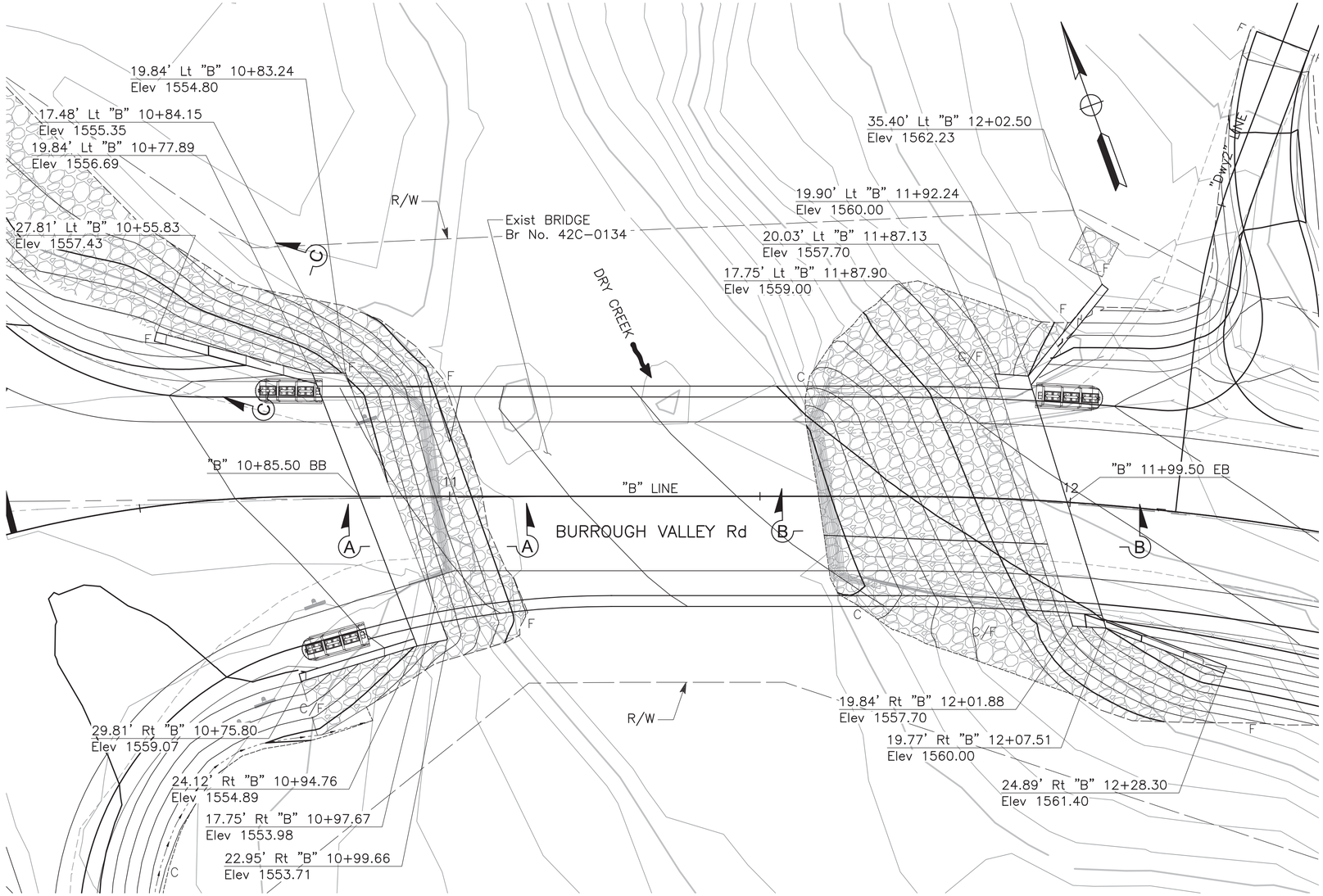
NOTES:

1. FOR ACCURATE RIGHT–OF–WAY DATA, CONTACT COUNTY OFFICE.

2. ALL STATION/OFFSET CALLOUTS ARE TO THE EDGE OF ROCK SLOPE PROTECTION UNLESS OTHERWISE NOTED.

LEGEND:

ROCK SLOPE PROTECTION (1T, CLASS VIII, METHOD B)



ROCK SLOPE PROTECTION DETAIL

SCALE: 1"=10'

C-3

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	SCALE AS SHOWN
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

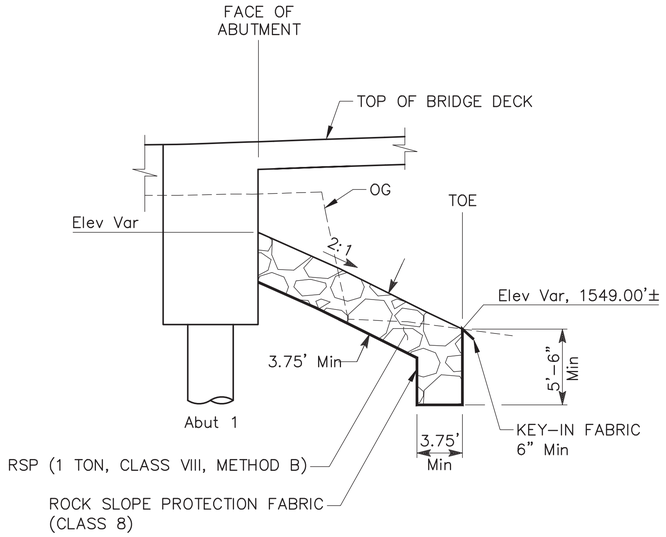
ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO — 1856

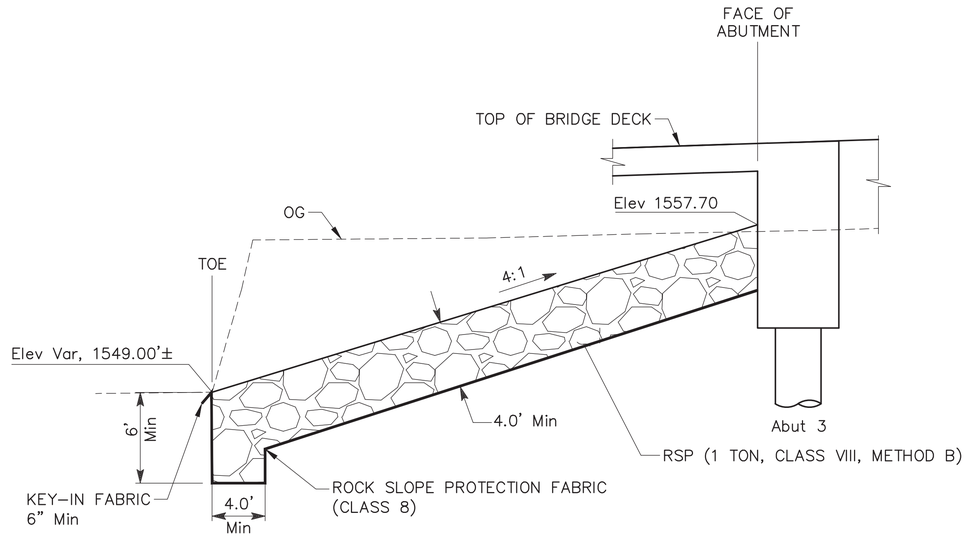
DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION DETAILS

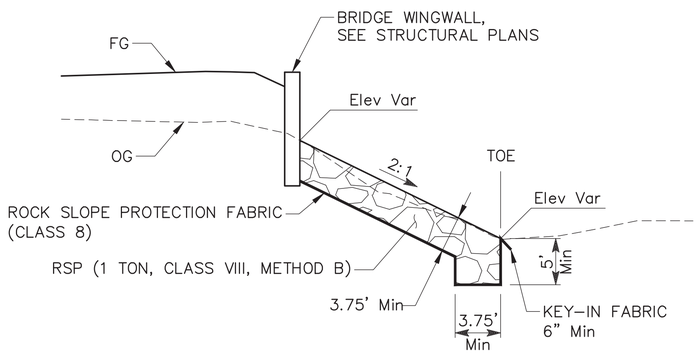
DRAWING NO. 11278 — SHEET NO. 14 — TOTAL 64



SECTION A-A



SECTION B-B



SECTION C-C

ROCK SLOPE PROTECTION DETAIL

C-4

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	NO SCALE
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER
No. 70950
Exp. 6/23
STATE OF CALIFORNIA

PROJECT
DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

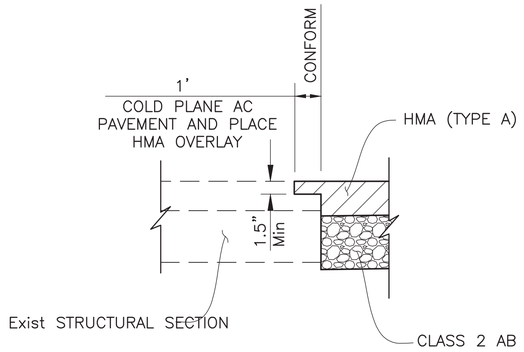
ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

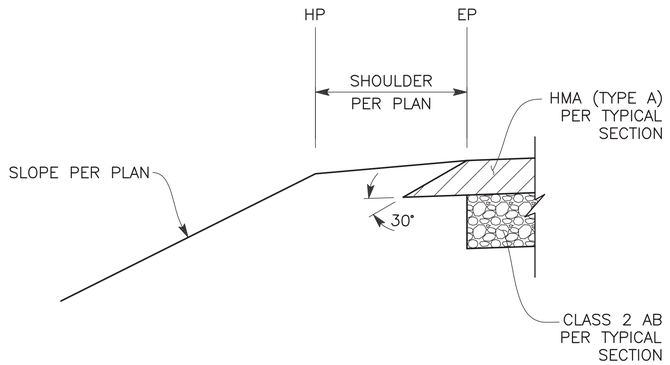
CONSTRUCTION DETAILS

DRAWING NO. 11278 SHEET NO. 15 TOTAL 64



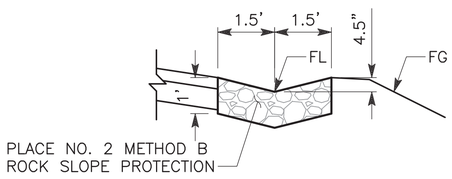
HMA PAVEMENT TRANSITION DETAIL

NO SCALE



SAFETY EDGE DETAIL

NO SCALE

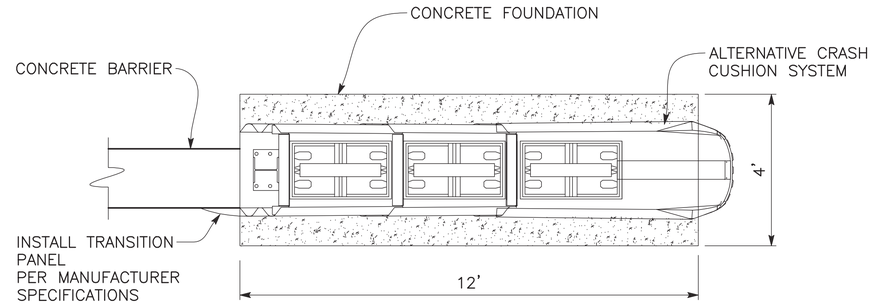


RSP SHOULDER DITCH DETAIL

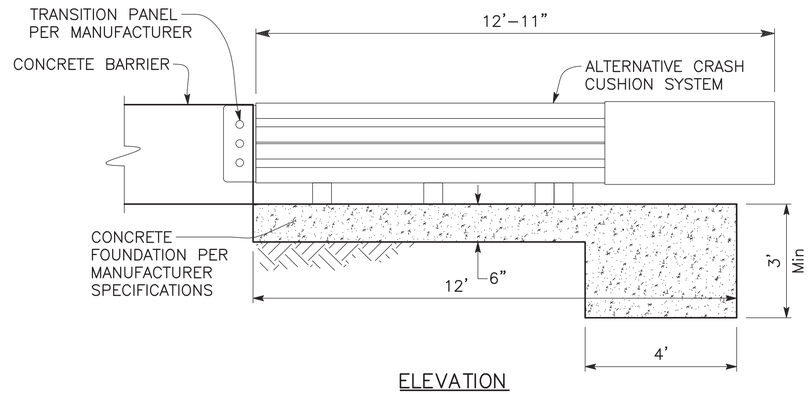
NO SCALE

NOTES:

1. ALTERNATIVE CRASH CUSHION SYSTEM SHALL BE QUADGUARD M10 SYSTEM, MODEL QGMTSCVR–U, OR APPROVED EQUAL.
2. ALTERNATIVE CRASH CUSHION SYSTEM ARE TO BE MINIMUM TL–2 AS DEFINED BY MASH WITH A DESIGN SPEED OF 45 MPH.



PLAN



ELEVATION

ALTERNATIVE CRASH CUSHION

NO SCALE

C-5

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	NO SCALE
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

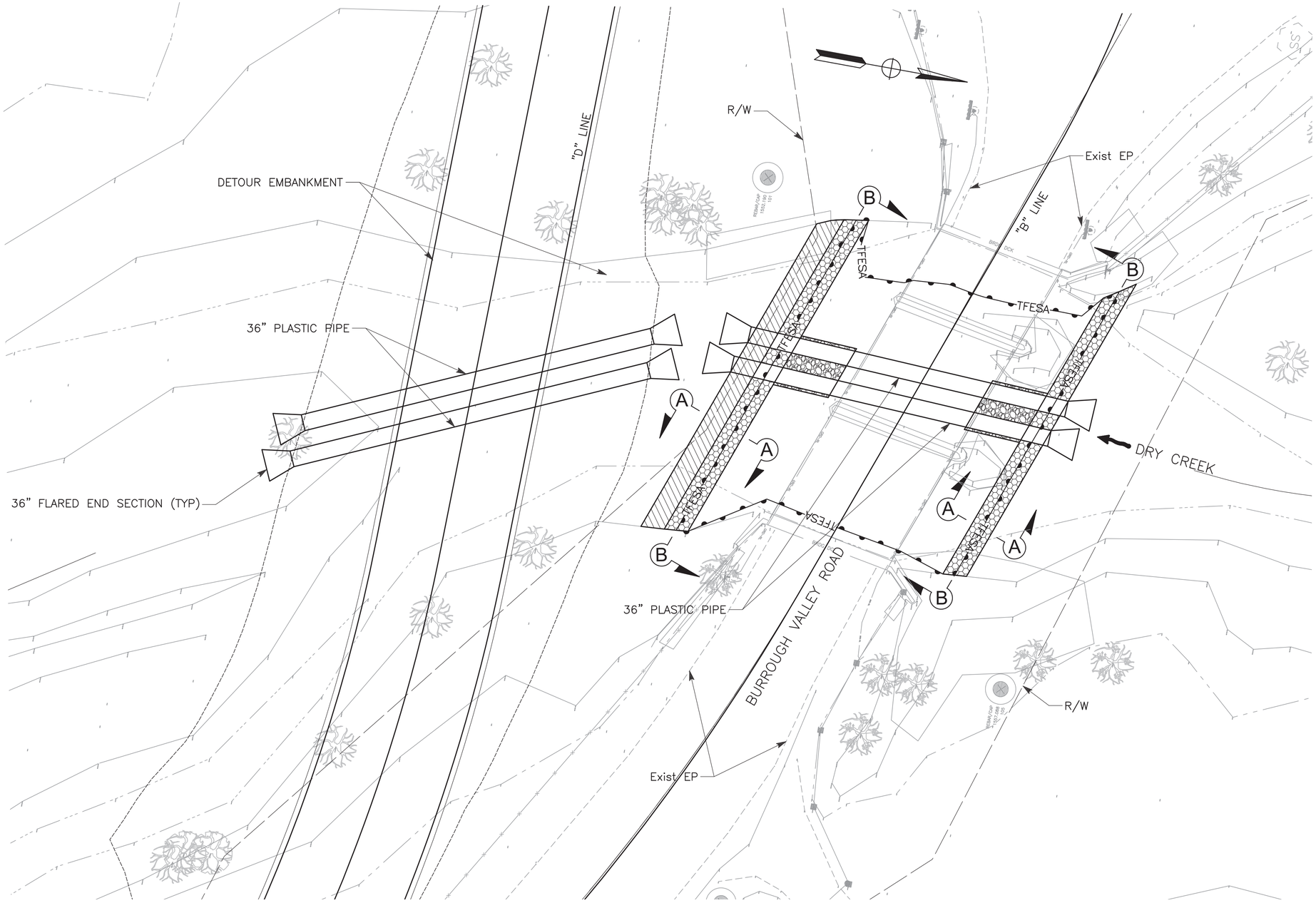
ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION DETAILS

DRAWING NO. 11278 — SHEET NO. 16 — TOTAL 64



LEGEND:

- COFFERDAM
- GRAVEL BEDDING
- FILTER MATERIAL WITH FILTER FABRIC UNDERNEATH
- TFESA — TEMPORARY HIGH VISIBILITY FENCE

NOTES:

1. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE TO INSTALL TEMPORARY CREEK DIVERSION DEVICES. PREPARE A CREEK DIVERSION PLAN INCLUDING THE CONSTRUCTION SEQUENCE, EQUIPMENT, MEANS AND METHODS REQUIRED FOR ERECTION AND REMOVAL OF THE DIVERSION SYSTEM. A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA MUST PREPARE THE CREEK DIVERSION PLAN AND SUBMIT FOR ACCEPTANCE BY THE ENGINEER AND REGULATORY AGENCIES.
2. THE INTENT OF THE DIVERSION PLAN IS TO DIVERT MINIMAL FLOWS DURING THE DRY WORK SEASON. THE SCHEMATIC PLAN IS NOT DESIGNED FOR STORM WATER FLOWS EXPECTED IN THE WET SEASON. YOU ARE RESPONSIBLE FOR ANY DIVERSION CONTINGENCIES IN THE EVENT OF A STORM.
3. SEE SHEET TCD–2 FOR TEMPORARY CREEK DIVERSION DETAILS.
4. VERIFY PEAK FLOWS IN DRY CREEK TO ENSURE PIPE SIZES SHOWN ON THIS PLAN IS ADEQUATE.
5. GRAVEL BEDDING SHALL CONSIST OF 1–INCH TO 4–INCHES IN DIAMETER, WASHED AND ROUNDED RIVER ROCK, AND SHALL MEET THE CALTRANS GRAVEL CLEANLINESS SPECIFICATION #85.

APPROVED FOR TEMPORARY STREAM DIVERSION WORK ONLY

WPC-1

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 20′ 40′

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

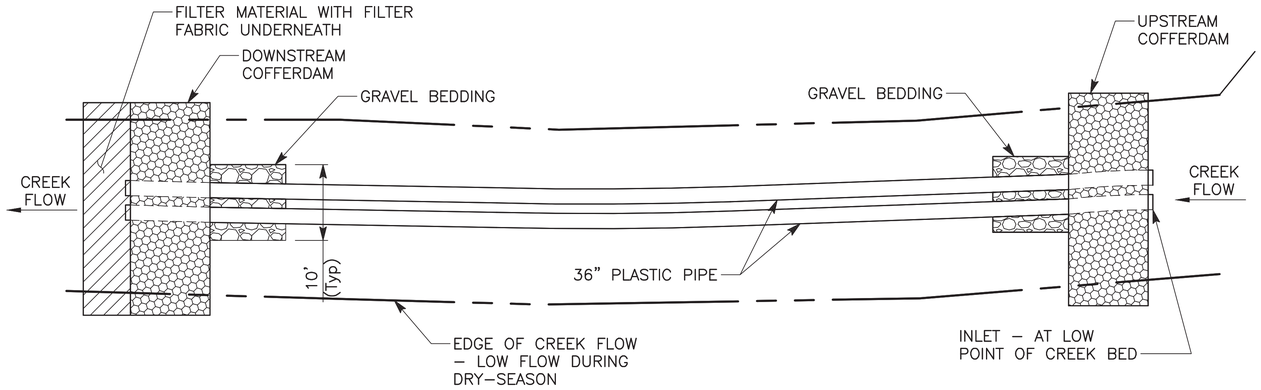
ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

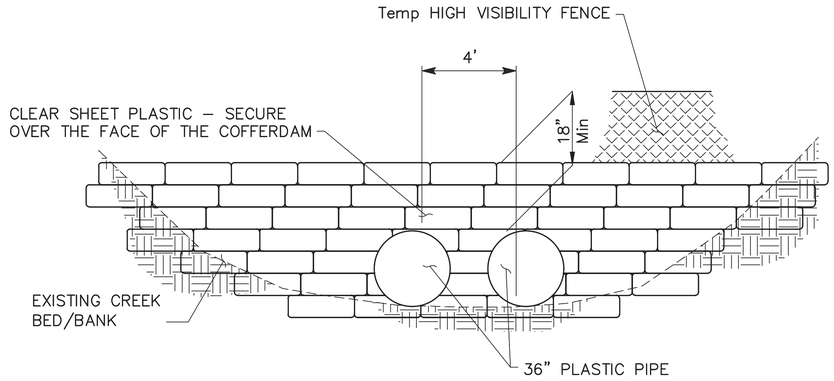
TEMPORARY CREEK DIVERSION

DRAWING NO. 11278 — SHEET NO. 17 — TOTAL 64



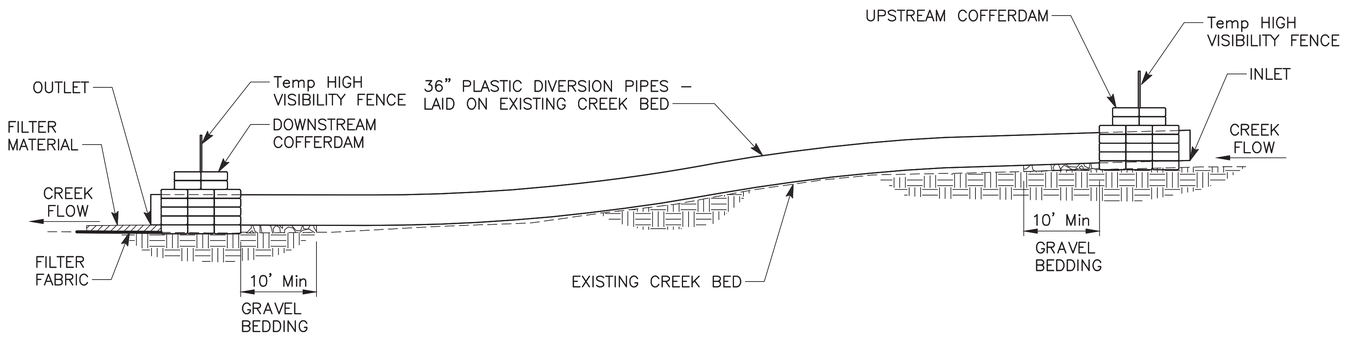
PIPE AND COFFERDAM SCHEMATIC PLAN

NO SCALE



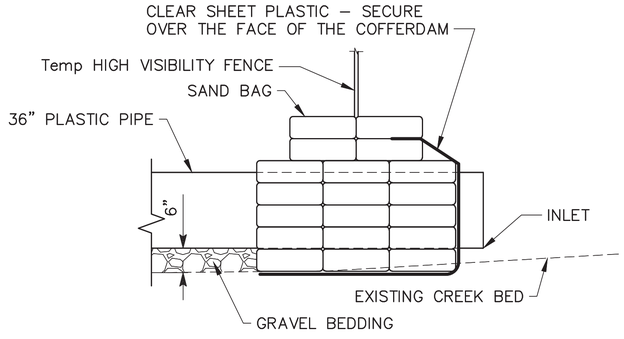
SECTION B-B COFFERDAM DETAIL

NO SCALE



PIPE AND COFFERDAM SCHEMATIC ELEVATION

NO SCALE



SECTION A-A COFFERDAM DETAIL

NO SCALE

WPCD-1

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	0 20' 40'
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

TEMPORARY CREEK DIVERSION DETAILS

DRAWING NO. 11278 SHEET NO. 18 TOTAL 64

NOTES:

1. FOR ACCURATE RIGHT–OF–WAY DATA, CONTACT COUNTY OFFICE.
2. DEPLOY LINEAR SEDIMENT CONTROLS (FIBER ROLLS) ON DISTURBED SLOPES. APPLY LINEAR SEDIMENT CONTROLS ALONG THE TOE OF THE SLOPE AND AT THE GRADE BREAKS OF THE SLOPE. ADDITIONALLY, USE LINEAR SEDIMENT CONTROLS AS A PERIMETER CONTROL TO CONTAIN SEDIMENT WITHIN THE PROJECT AREA. PLACE FIBER ROLLS 5 FEET ABOVE THE TOE OF SLOPE AND 6.5 FEET BELOW GRADING CONFORM.
3. ROCK SLOPE PROTECTION SHOWN ON EROSION CONTROL PLANS IS FOR REFERENCE ONLY.

LEGEND:

HYDROSEED

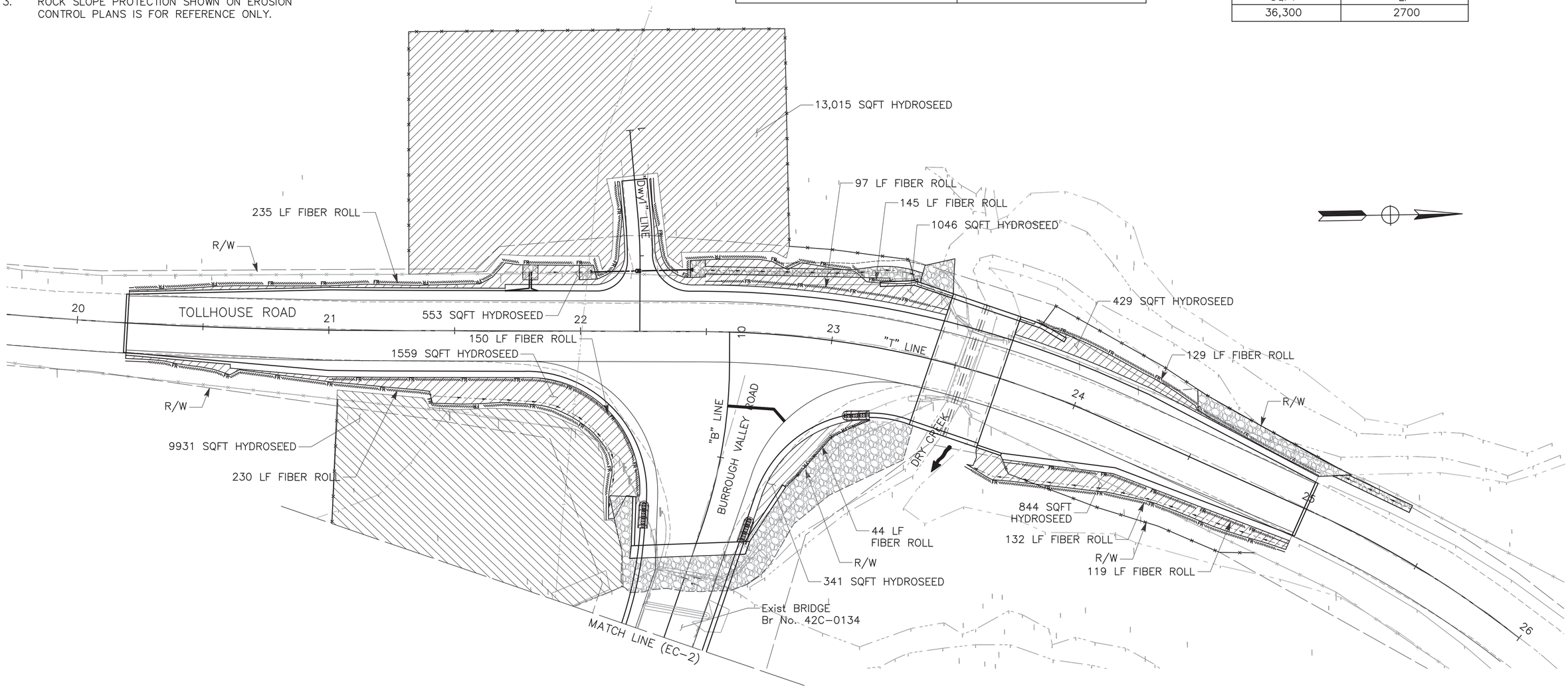
FR SC–5: FIBER ROLLS

ROCK SLOPE PROTECTION (RSP)

EROSION CONTROL SEED MIX	
COMMON NAME	PURE LIVE SEED (Lbs/Ac)
Mugwort	2.0
California brome	5.0
Slender wheatgross	2.0
Regreen	10.0
California poppy	2.0
California barley	2.0
BICOLORED LUPINE	4.0
Total	27.0

FIBER ROLL PLACEMENT INTERVALS	
SLOPE	SPACING
4:1 OR FLATTER	20'
2:1 TO 4:1	15'
2:1 OR STEEPER	10'

EROSION CONTROL QUANTITIES	
HYDROSEED	FIBER ROLL
SQFT	LF
36,300	2700



APPROVED FOR EROSION CONTROL WORK ONLY

EC-1

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	0 20' 40'
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. 70950 Exp. 6/23 STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

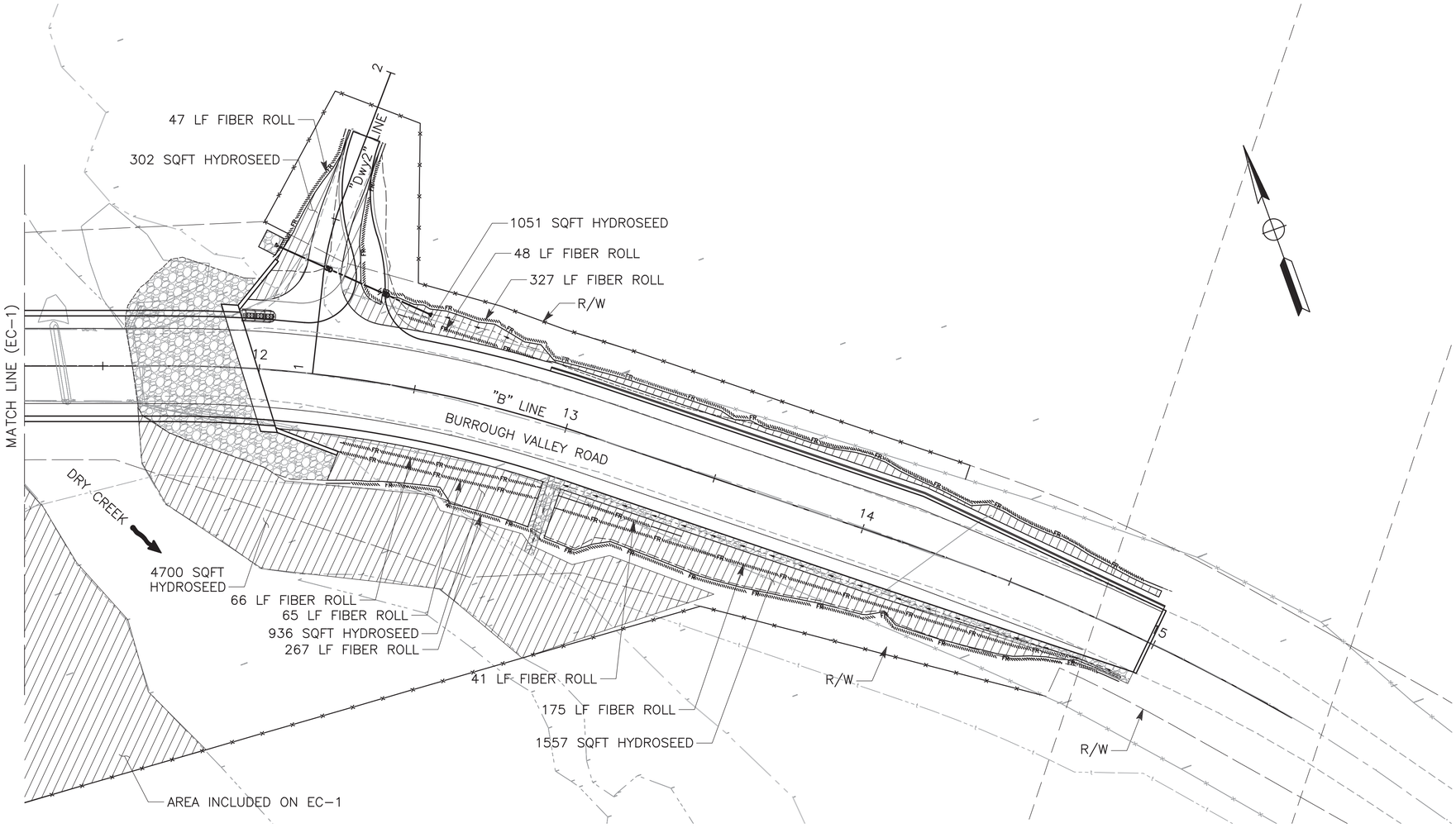
ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

EROSION CONTROL PLAN

DRAWING NO. 11278 SHEET NO. 19 TOTAL 64



APPROVED FOR EROSION CONTROL WORK ONLY

EC-2

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	0 20′ 40′
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO — 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

EROSION CONTROL PLAN

DRAWING NO. 11278 — SHEET NO. 20 — TOTAL 64

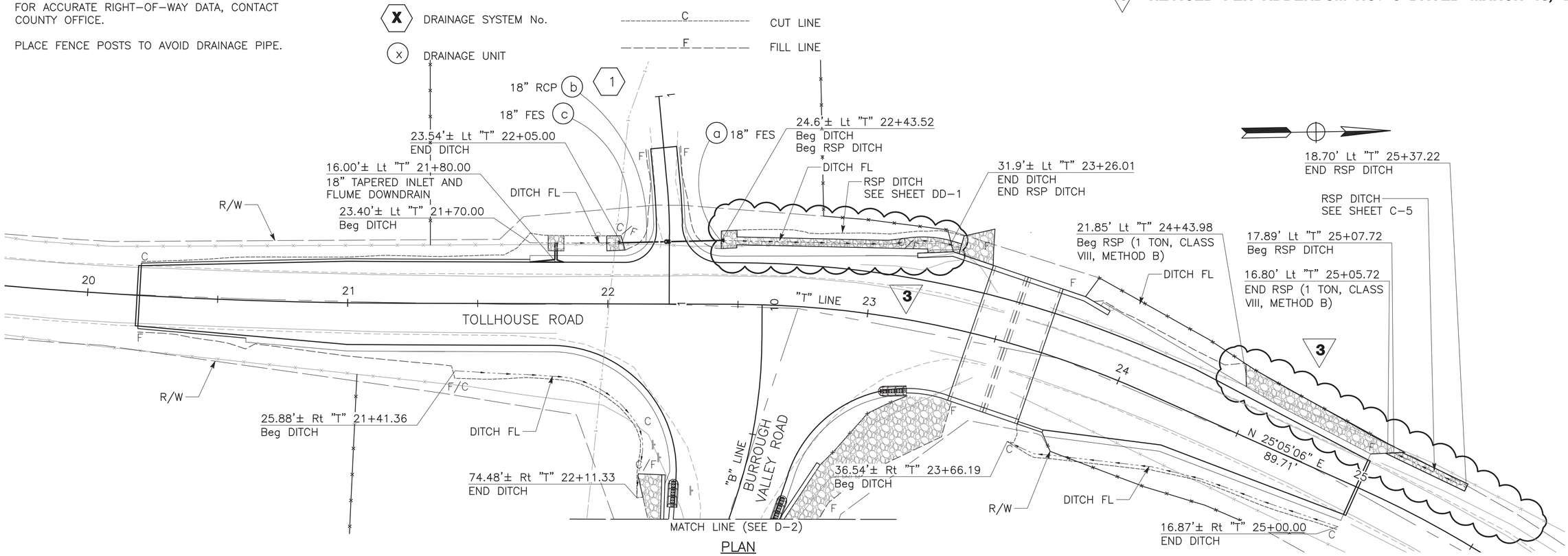
NOTE:

1. FOR ACCURATE RIGHT–OF–WAY DATA, CONTACT COUNTY OFFICE.
2. PLACE FENCE POSTS TO AVOID DRAINAGE PIPE.

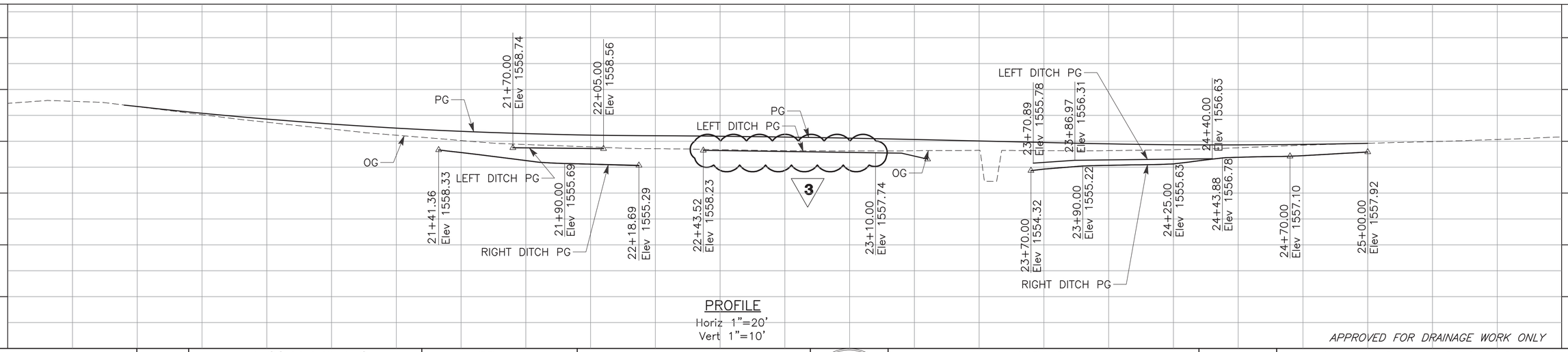
LEGEND:

(X) DRAINAGE SYSTEM No.
(x) DRAINAGE UNIT
C CUT LINE
F FILL LINE

3 REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023



PLAN
SCALE 1"=20'



PROFILE
Horiz 1"=20'
Vert 1"=10'

APPROVED FOR DRAINAGE WORK ONLY

D-1

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	SCALE AS SHOWN
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
No. 70950
Exp. 6/23
STATE OF CALIFORNIA

PROJECT
DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD
ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

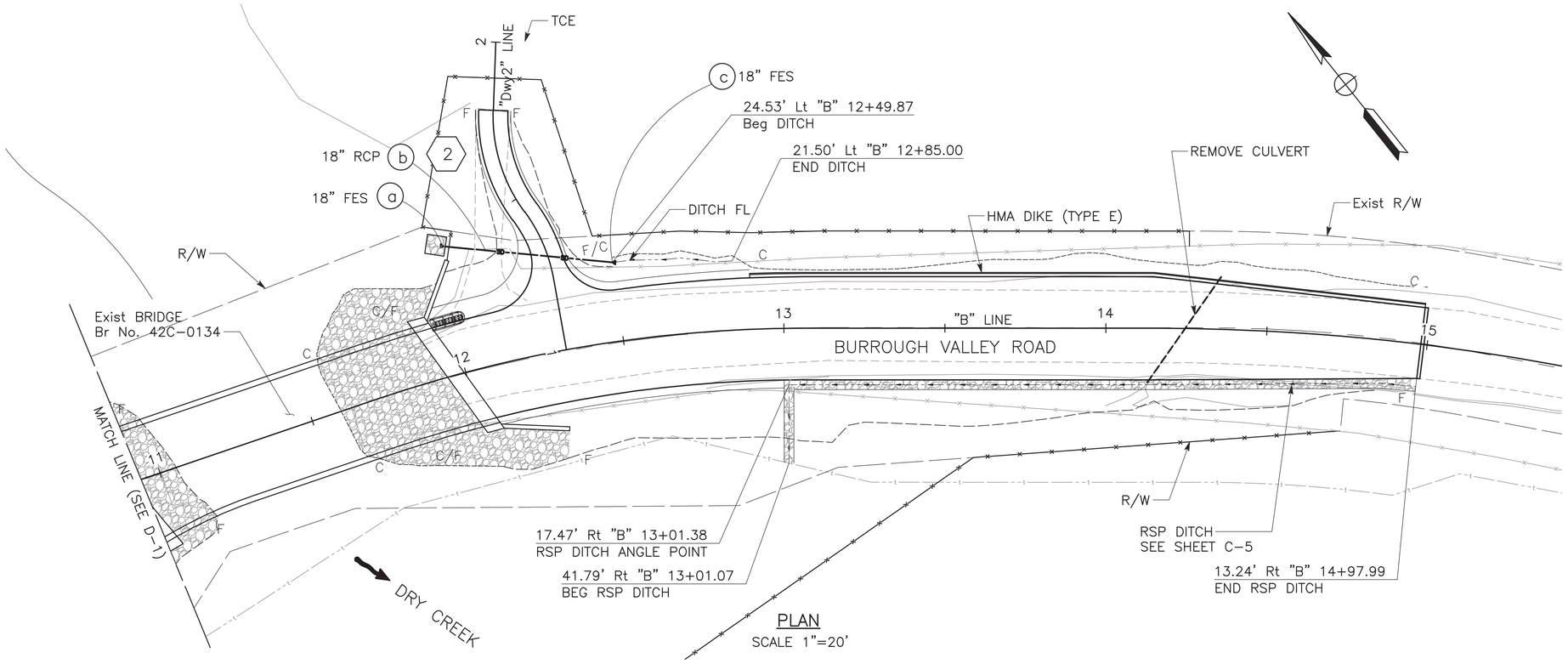
DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

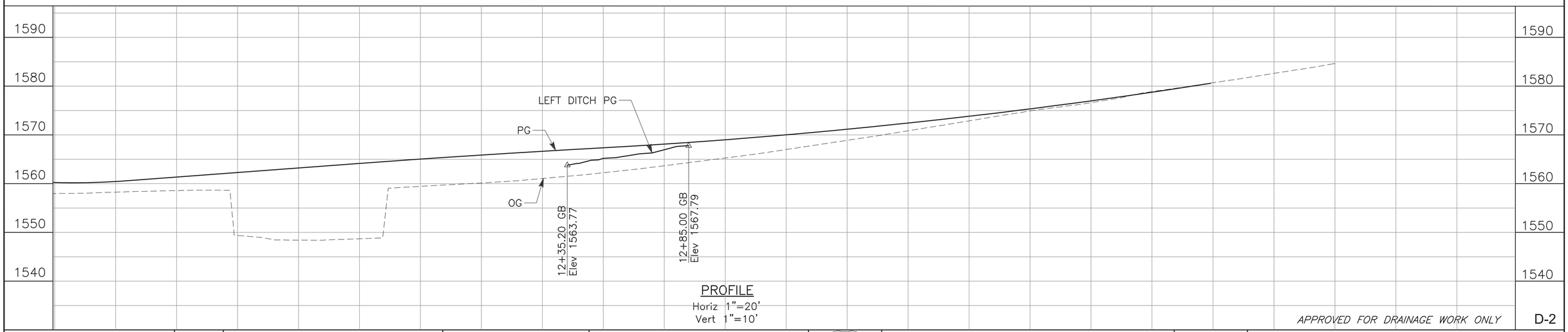
DRAWING NO. 11278 SHEET NO. 21 TOTAL 64

NOTE:

1. FOR ACCURATE RIGHT–OF–WAY DATA, CONTACT COUNTY OFFICE.



PLAN
SCALE 1"=20'



PROFILE
Horiz 1"=20'
Vert 1"=10'

APPROVED FOR DRAINAGE WORK ONLY

D-2

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	0 20' 40'
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

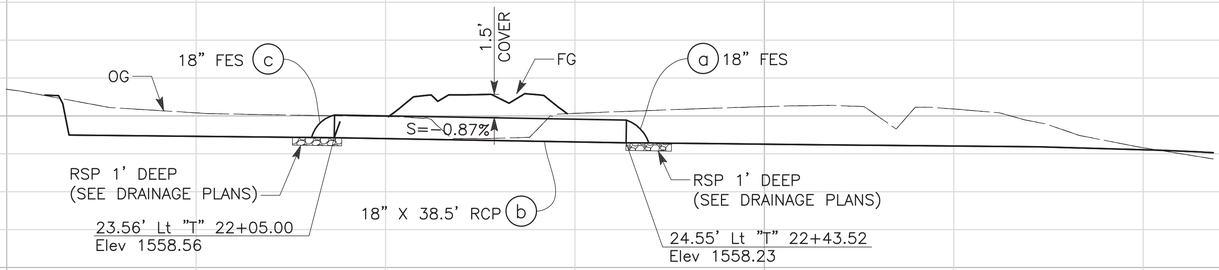
ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

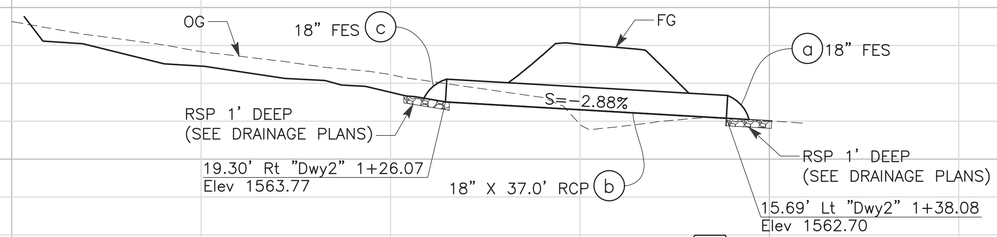
DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

DRAWING NO. 11278 — SHEET NO. 22 — TOTAL 64



DRAINAGE SYSTEM No. 1



DRAINAGE SYSTEM No. 2

SCALE: Horiz 1"=10'
Vert 1"=5'

DP-1

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	SCALE AS SHOWN
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

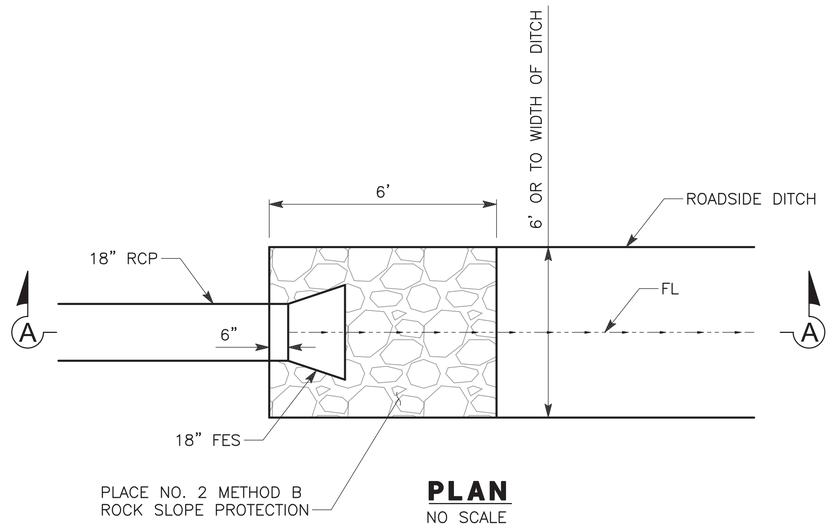
DRAINAGE PROFILE

DRAWING NO. 11278 — SHEET NO. 23 — TOTAL 64

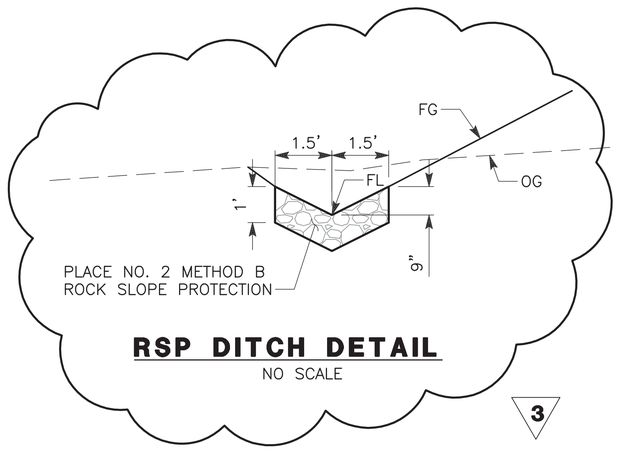
DRAINAGE NOTES:

1. FOR DETAILS NOT SHOWN FOR INLET (TYPE OCPI) SEE CALTRANS STANDARD PLANS

3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**

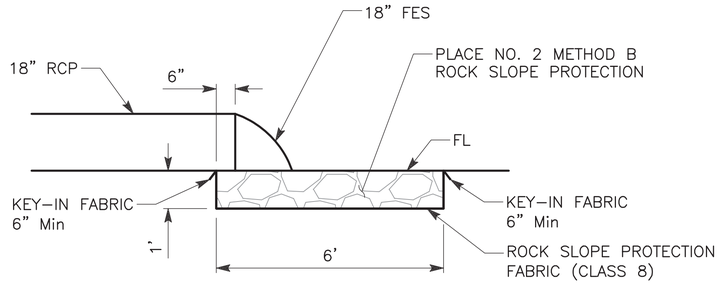


PLAN
NO SCALE



RSP DITCH DETAIL
NO SCALE

3



SECTION A-A
NO SCALE

CULVERT RSP DETAIL
NO SCALE

DD-1

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE DETAILS

DRAWING NO. 11278 — SHEET NO. 24 — TOTAL 64

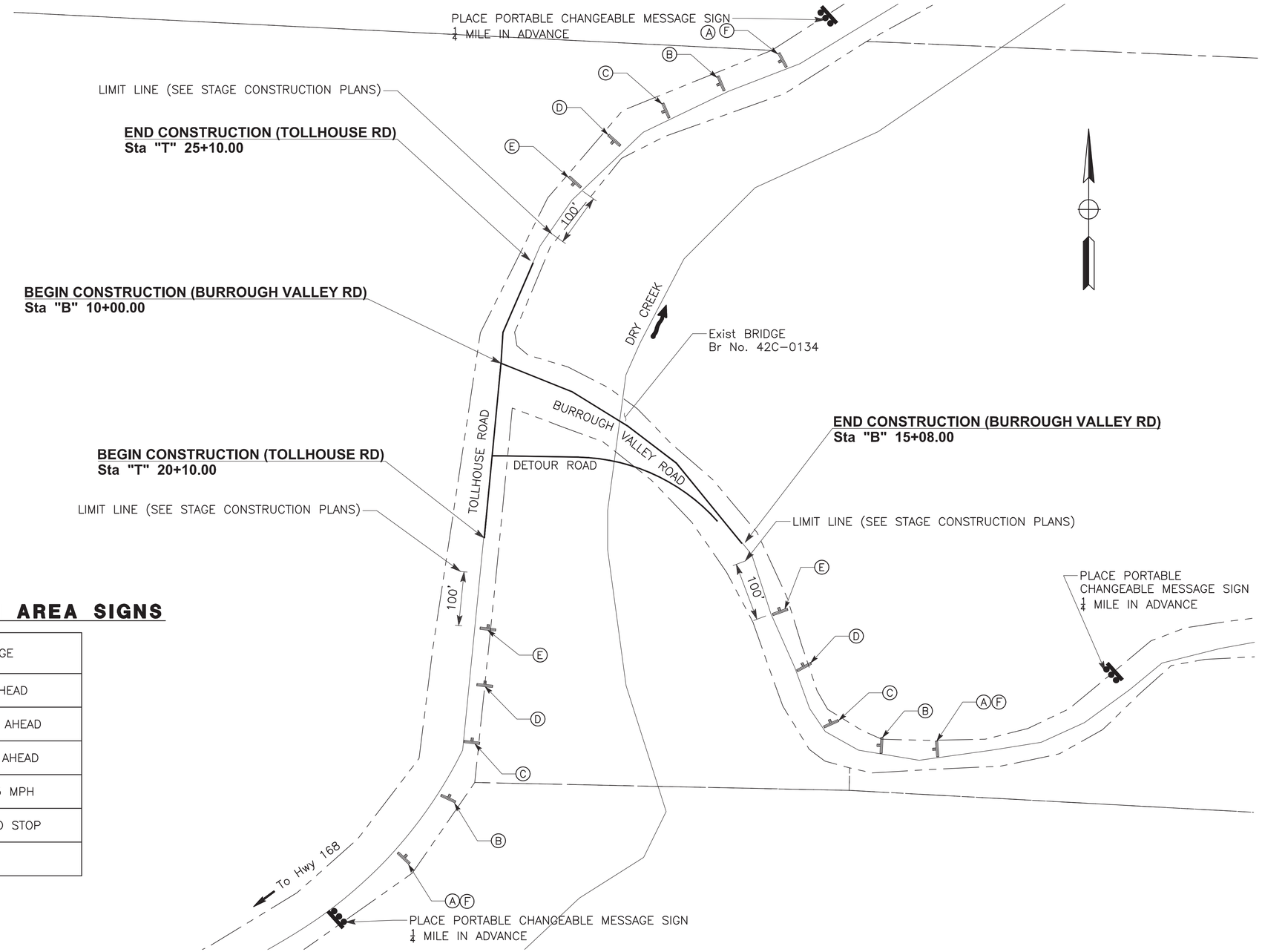
NOTES:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. ALL CONSTRUCTION AREA SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA MUTCD AND THE 2015 CALTRANS STANDARD PLANS.
3. SIGN No. B, E, AND F SHALL BE EQUIPPED WITH FLASHING BEACONS.
4. PORTABLE CHANGEABLE MESSAGE SIGNS TO BE INSTALLED 7 DAYS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO COORDINATE SIGN MESSAGING WITH THE ENGINEER.

LEGEND:

CONSTRUCTION AREA SIGN

PORTABLE CHANGEABLE MESSAGE SIGN



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	No. OF SIGNS	SIGN MESSAGE
(A)	W20-1	30" x 30"	3	ROAD WORK AHEAD
(B)	W20-4	30" x 30"	3	ONE LANE ROAD AHEAD
(C)	W3-3	48" x 24"	3	TRAFFIC SIGNAL AHEAD
(D)	W3-5	36" x 36"	3	SPEED LIMIT 15 MPH
(E)	W3-4	36" x 36"	3	BE PREPARED TO STOP
(F)	C29(CA)	20" x 7"	3	1500 FT

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	NO SCALE
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION AREA SIGNS

DRAWING NO. 11278 — SHEET NO. 25 — TOTAL 64

LEGEND:

- STRUCTURE WORK
- ROADWAY WORK
- STAGING AREA
- CHANNELIZER (SURFACE MOUNTED) (10' O.C.)
- TEMPORARY CRASH CUSHION
- TEMPORARY RAILING (TYPE K)
- DIRECTION OF TRAVEL
- TEMPORARY SIGN – SINGLE POST (n)

NOTE:

1. EXISTING FENCE SHALL BE MAINTAINED TO CONTAIN LIVESTOCK WITHIN PRIVATE PROPERTIES.

STAGE 1 TRAFFIC HANDLING NOTES:

1. MAINTAIN PRIVATE ACCESS AT ALL TIMES.

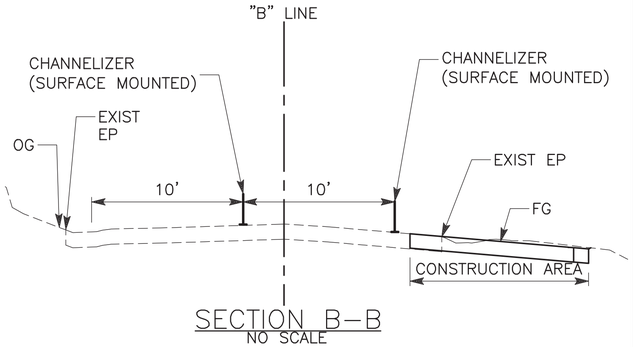
(n) NOT A PAY ITEM, FOR INFORMATION ONLY

STAGE 1 CONSTRUCTION NOTES:

[1] CONSTRUCT DETOUR ROAD. SEE DETOUR PLANS

[2] MAINTAIN EXISTING TRAFFIC PATTERS.

[3] CONSTRUCT TEMPORARY CREEK DIVERSION. SEE TEMPORARY CREEK DIVERSION PLANS.



SECTION B–B
NO SCALE

SECTION A–A
NO SCALE

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-1

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	PLAN 0 20' 40' HZ
DRAWN: G. DANKE	11/2/22			PROFILE 0 10' 20' VT
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER No. 70950 Exp. 6/23 STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE 1-DETOUR
STAGE CONTRUCTION AND TRAFFIC HANDLING PLAN

DRAWING NO. 11278 SHEET NO. 26 TOTAL 64

LEGEND:

- STRUCTURE WORK
- ROADWAY WORK
- STAGING AREA
- TEMPORARY PAINTED STRIPE
- CHANNELIZER (SURFACE MOUNTED) (10' O.C.)
- ALTERNATIVE TEMPORARY CRASH CUSHION
- TEMPORARY RAILING (TYPE K)
- DIRECTION OF TRAVEL
- TEMPORARY SIGN – SINGLE POST (n)

STAGE 2 TRAFFIC HANDLING NOTES:

1. PROVIDE TEMPORARY TRAFFIC SIGNAL AND ONE–LANE TRAFFIC CONTROL ON APPROACH ROADWAY PER CALTRANS STANDARD PLAN T13.
2. WHEN FLAGGER IS NOT PRESENT, TEMPORARY TRAFFIC SIGNAL SHALL BE INCORPORATED. KEEP CONSTRUCTION EQUIPMENT IN STAGING AREA DURING NON–WORK HOURS. TEMPORARY TRAFFIC SIGNAL SHALL ALLOW GREEN IN ONE DIRECTION AND RED IN THE OTHER TWO DIRECTIONS UNTIL TRAFFIC CLEARS THE CONSTRUCTION ZONE.
3. MAINTAIN PRIVATE ACCESS AT ALL TIMES.

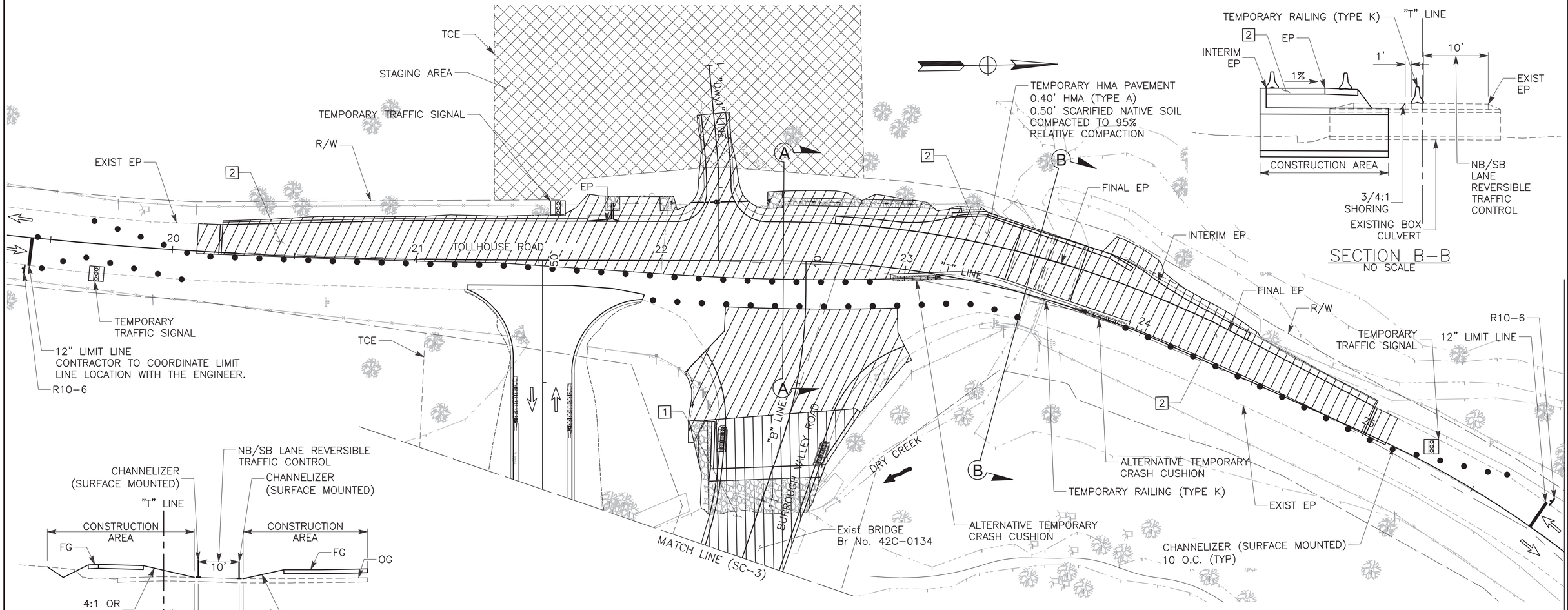
(n) NOT A PAY ITEM, FOR INFORMATION ONLY

NOTE:

1. EXIST FENCE SHALL BE MAINTAINED TO CONTAIN LIVESTOCK WITHIN PRIVATE PROPERTIES.

STAGE 2 CONSTRUCTION NOTES:

1. REMOVE AND CONSTRUCT BRIDGE.
2. CONSTRUCT ROADWAY.
3. CONSTRUCT TEMPORARY PAVEMENT FOR STAGE 3.
4. CONSTRUCT BOX CULVERT.



SECTION B–B
NO SCALE

SECTION A–A
NO SCALE

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-2

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 20' 40'

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

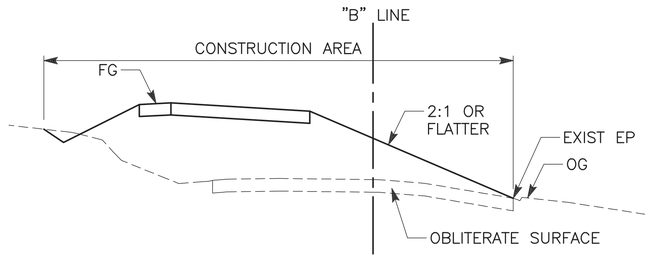
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

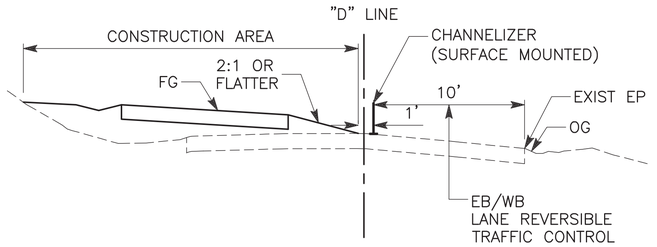
STAGE 2

STAGE CONTRUCTION AND TRAFFIC HANDLING PLAN

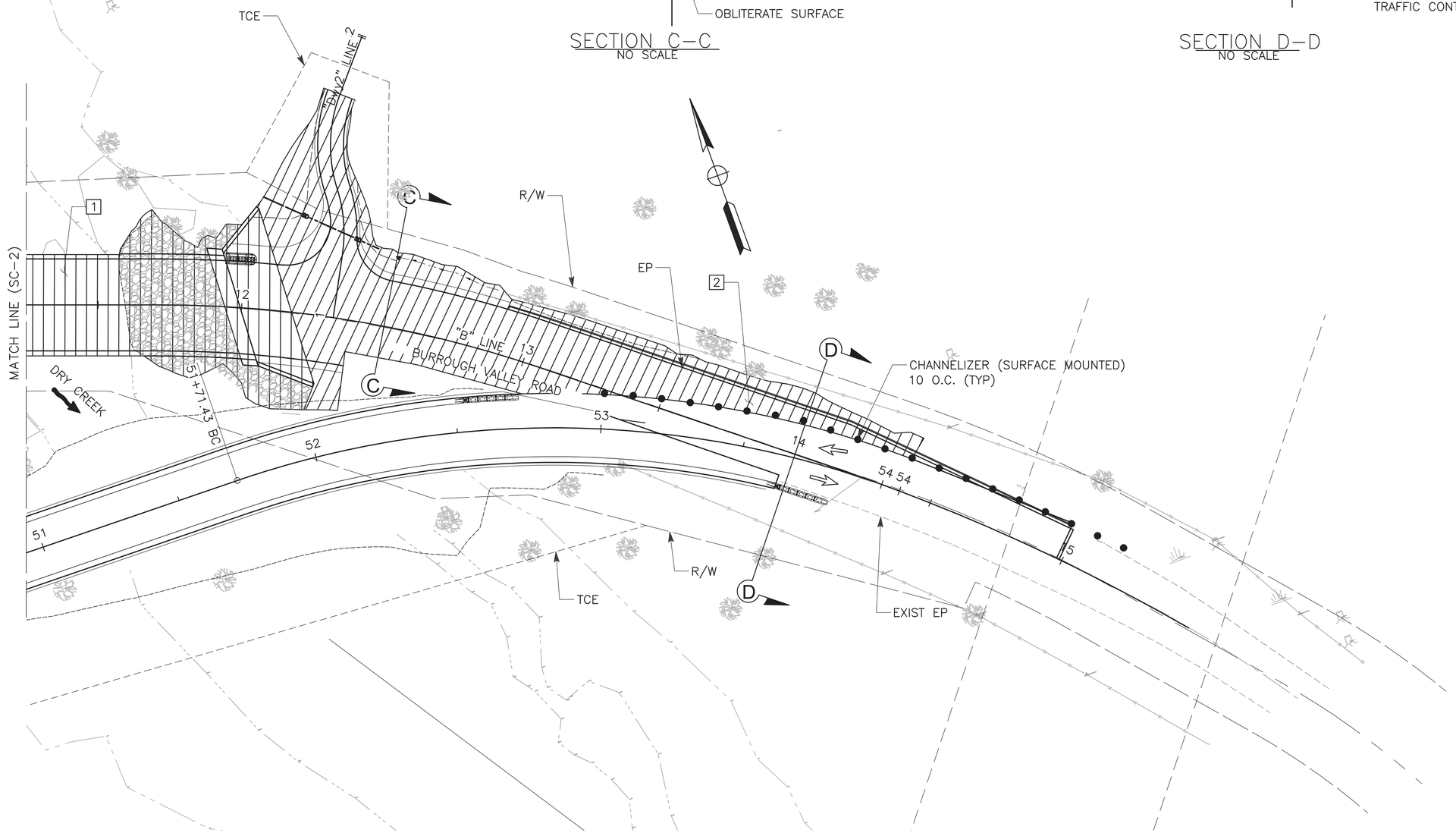
DRAWING NO. 11278 — SHEET NO. 27 — TOTAL 64



SECTION C–C
NO SCALE



SECTION D–D
NO SCALE



APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-3

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 20' 40'

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE 2

STAGE CONTRUCTION AND TRAFFIC HANDLING PLAN

DRAWING NO. 11278 SHEET NO. 28 TOTAL 64

LEGEND:

- STRUCTURE WORK
- ROADWAY WORK
- POTENTIAL STAGING AREA
- CHANNELIZER (SURFACE MOUNTED) (10' O.C.)
- ALTERNATIVE TEMPORARY CRASH CUSHION
- TEMPORARY RAILING (TYPE K)
- DIRECTION OF TRAVEL
- TEMPORARY SIGN – SINGLE POST (n)

STAGE 3 TRAFFIC HANDLING NOTES:

1. PROVIDE TEMPORARY TRAFFIC SIGNAL AND ONE–LANE TRAFFIC CONTROL ON APPROACH ROADWAY PER CALTRANS STANDARD PLAN T13.
2. WHEN FLAGGER IS NOT PRESENT, TEMPORARY TRAFFIC SIGNAL SHALL BE INCORPORATED. KEEP CONSTRUCTION EQUIPMENT IN STAGING AREA DURING NON–WORK HOURS. TEMPORARY TRAFFIC SIGNAL SHALL ALLOW GREEN IN ONE DIRECTION AND RED IN THE OTHER TWO DIRECTIONS UNTIL TRAFFIC CLEARS THE CONSTRUCTION ZONE.
3. MAINTAIN PRIVATE ACCESS AT ALL TIMES.

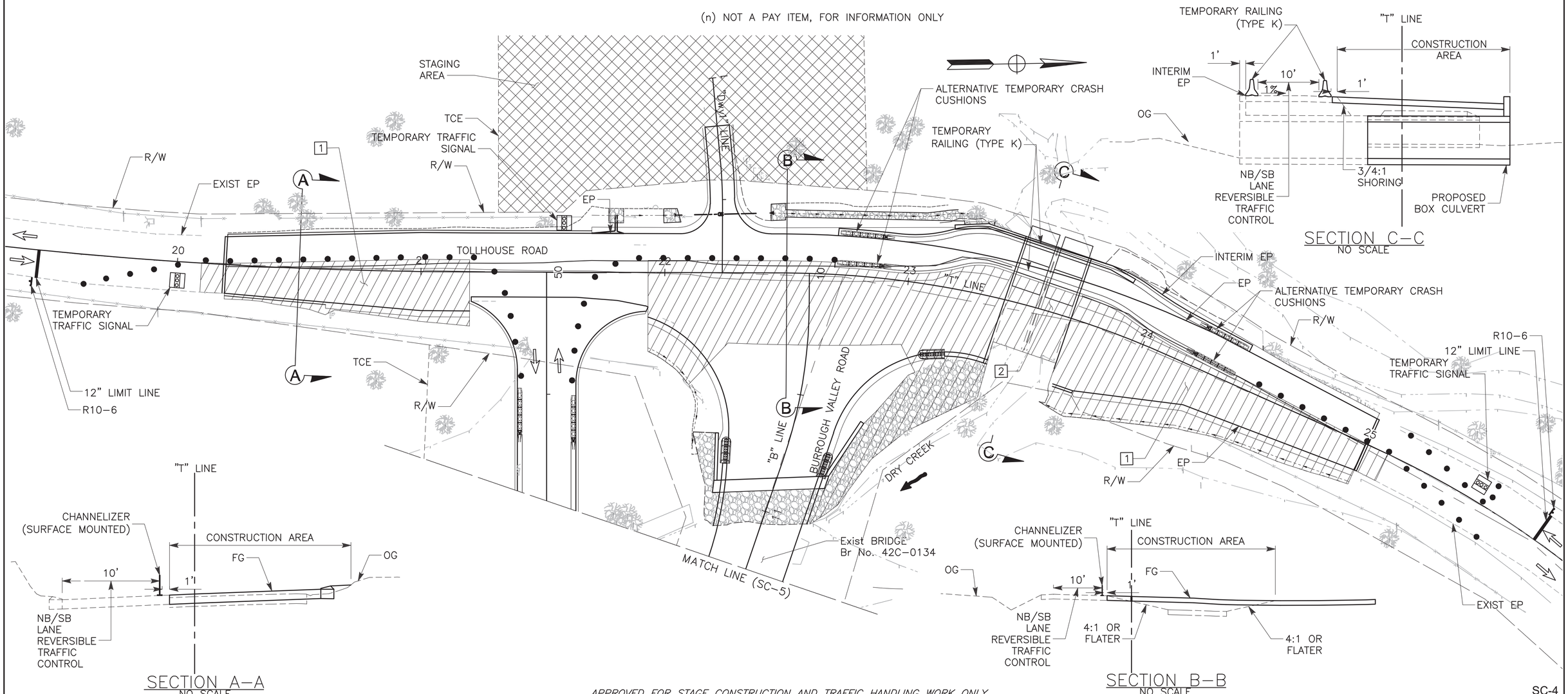
(n) NOT A PAY ITEM, FOR INFORMATION ONLY

NOTE:

1. EXIST FENCE SHALL BE MAINTAINED TO CONTAIN LIVESTOCK WITHIN PRIVATE PROPERTIES.

STAGE 3 CONSTRUCTION NOTES:

1. CONSTRUCT ROADWAY.
2. CONSTRUCT BOX CULVERT



SECTION C–C
NO SCALE

SECTION A–A
NO SCALE

SECTION B–B
NO SCALE

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-4

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 20' 40'

SUPERVISING ENGINEER ____ DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

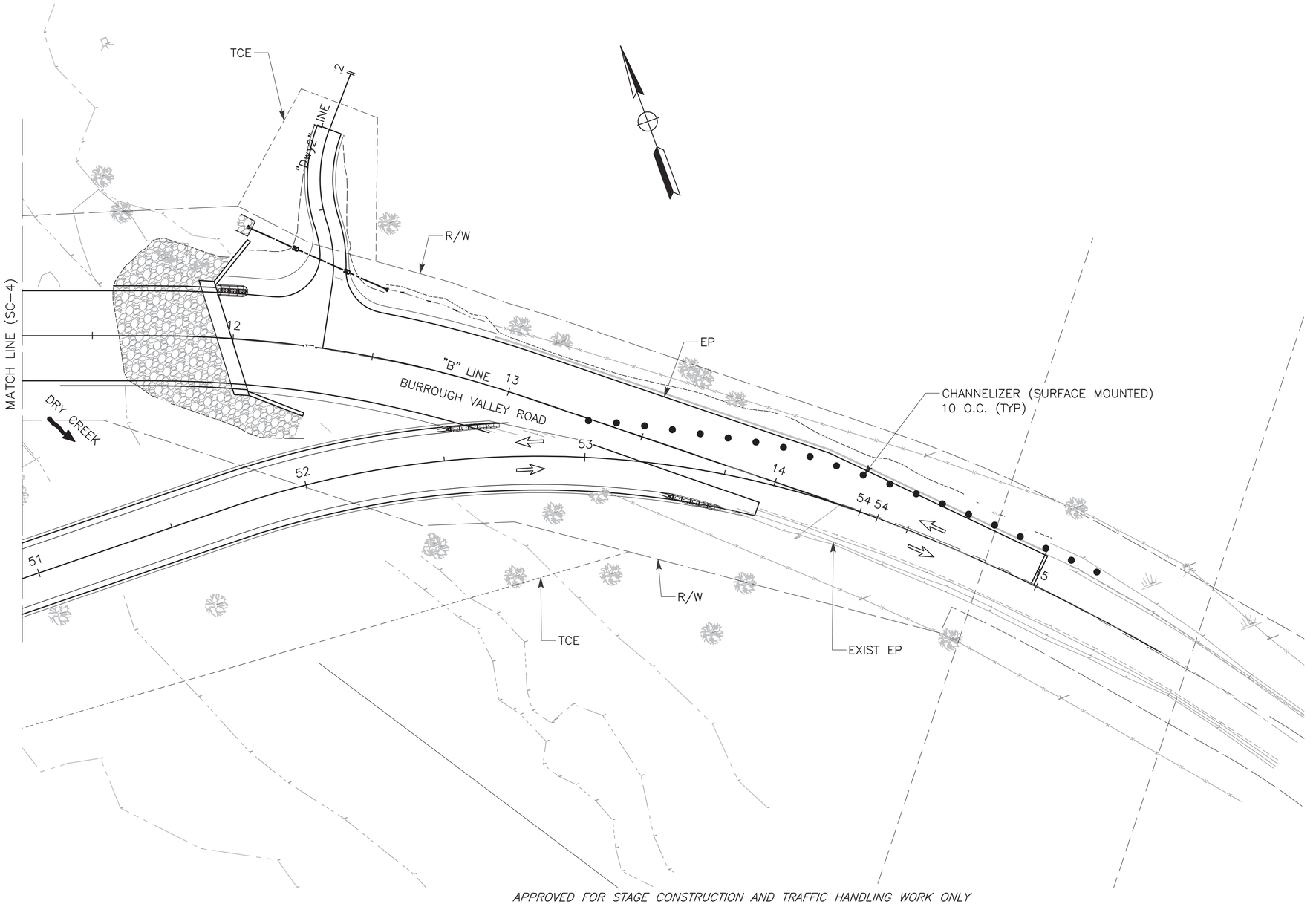
ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE 3
STAGE CONTRUCTION AND TRAFFIC HANDLING PLAN

DRAWING NO. 11278 SHEET NO. 29 TOTAL 64



APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-5

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 20′ 40′

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE 3

STAGE CONTRUCTION AND TRAFFIC HANDLING PLAN

DRAWING NO. 11278 — SHEET NO. 30 — TOTAL 64

LEGEND:

- STRUCTURE WORK
- ROADWAY WORK
- POTENTIAL STAGING AREA
- STAGED ROADWAY WORK, SEE NOTE 2
- CHANNELIZERS (SURFACE MOUNTED) (10' O.C.)
- ALTERNATIVE TEMPORARY CRASH CUSHION
- TEMPORARY RAILING (TYPE K)
- DIRECTION OF TRAVEL
- TEMPORARY SIGN – SINGLE POST (n)

STAGE 4 TRAFFIC HANDLING NOTES:

1. PROVIDE TEMPORARY TRAFFIC SIGNAL AND ONE–LANE TRAFFIC CONTROL ON APPROACH ROADWAY PER CALTRANS STANDARD PLAN T13.
2. CONTRACTOR TO UTILIZE SINGLE LANE CLOSURE TO PERFORM CONFORM WORK. COORDINATE CLOSURES AND TRAFFIC HANDLING REQUIREMENTS WITH THE ENGINEER.
3. MAINTAIN PRIVATE ACCESS AT ALL TIMES.

(n) NOT A PAY ITEM, FOR INFORMATION ONLY

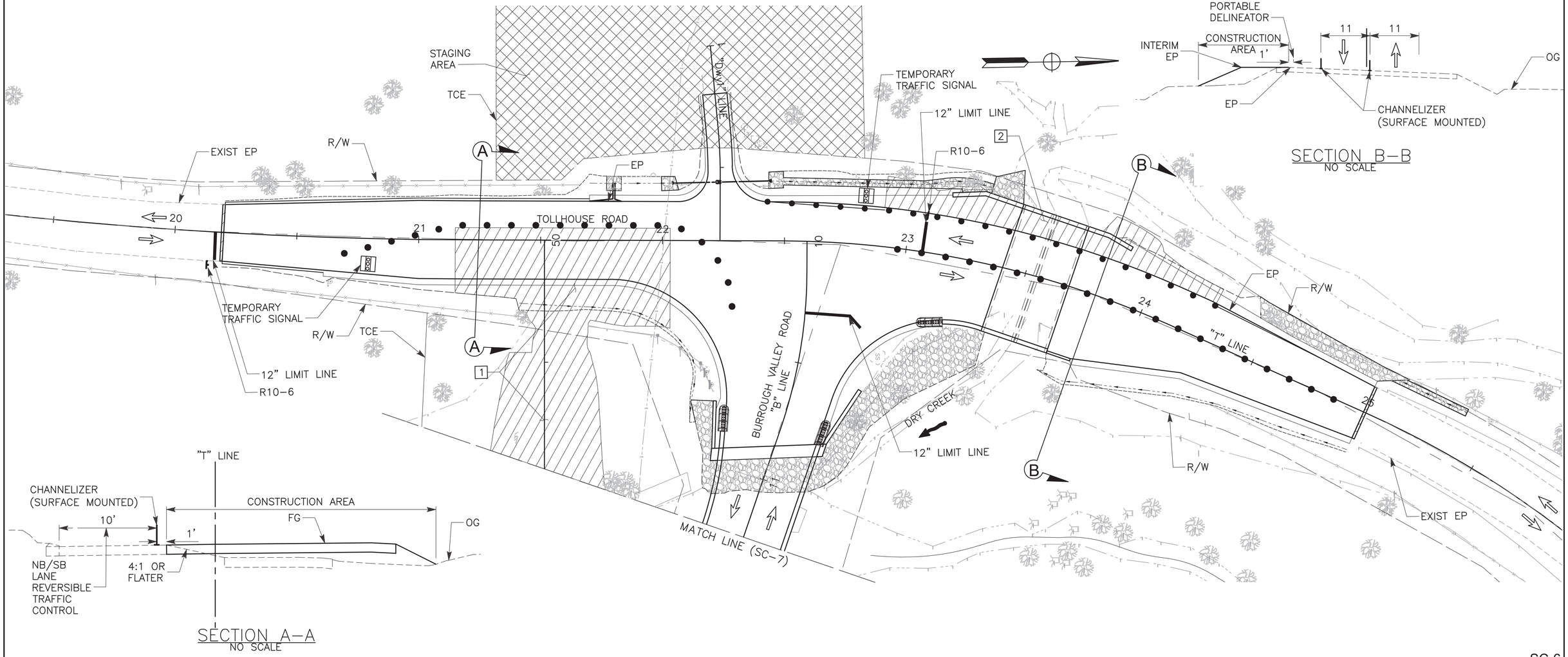
NOTE:

1. EXIST FENCE SHALL BE MAINTAINED TO CONTAIN LIVESTOCK WITHIN PRIVATE PROPERTIES.
2. CONTRACTOR TO STAGE CONSTRUCTION AND UTILIZE REVERSING ONE WAY TRAFFIC CONTROL TO MAINTAIN TRAFFIC ALONG BURROUGH VALLEY ROAD.

STAGE 4 CONSTRUCTION NOTES:

1 REMOVE DETOUR AND CONSTRUCT ROADWAY.

2 REMOVE TEMPORARY PAVEMENT AND CONSTRUCT ROADWAY SHOULDER AND BARRIER.



SECTION B–B
NO SCALE

SECTION A–A
NO SCALE

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-6

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 20' 40'

SUPERVISING ENGINEER ____ DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

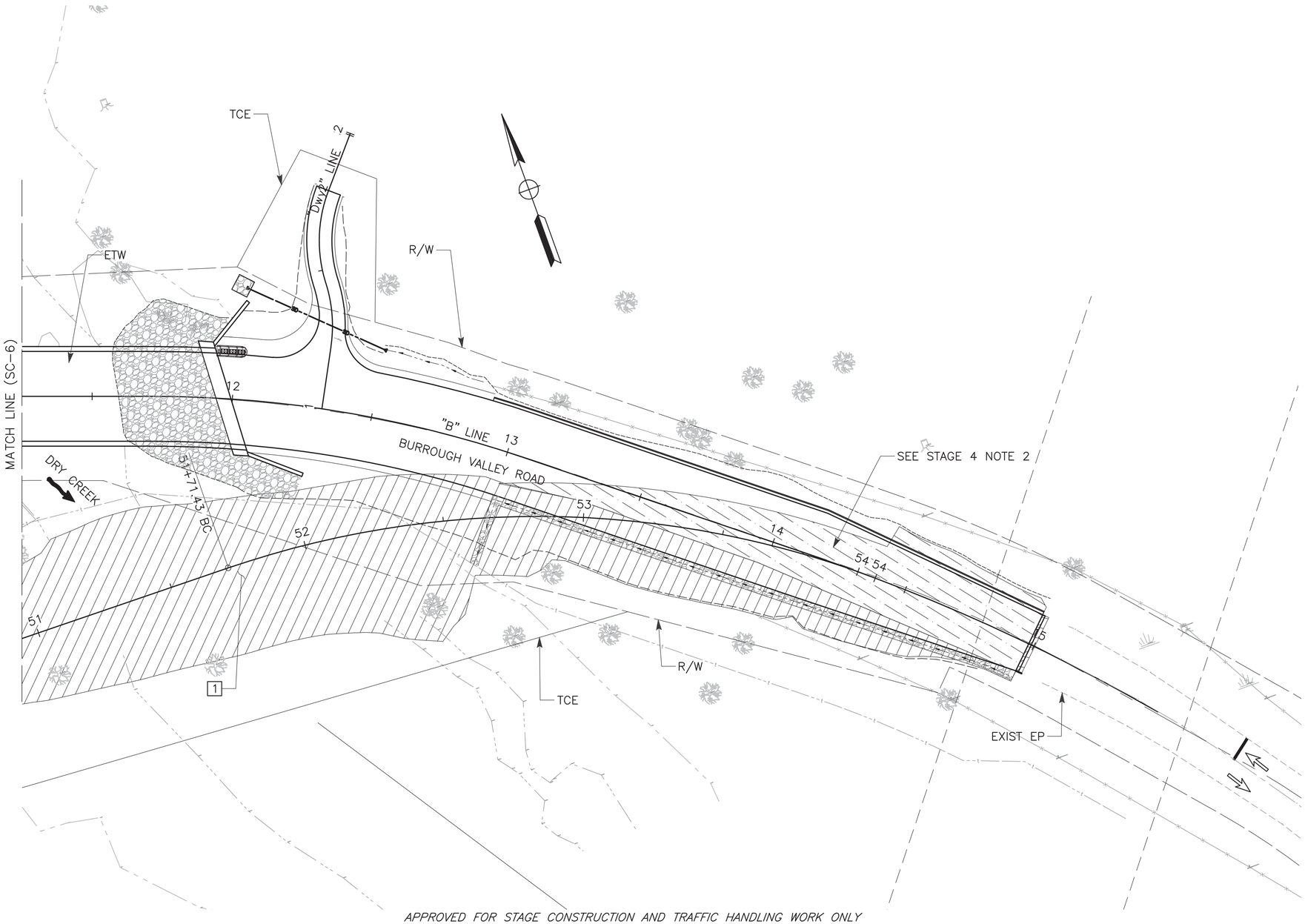
ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE 4
STAGE CONTRUCTION AND TRAFFIC HANDLING PLAN

DRAWING NO. 11278 SHEET NO. 31 TOTAL 64



APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-7

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE

0 20′ 40′

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
No. 70950
Exp. 6/23
STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE 4

STAGE CONTRUCTION AND TRAFFIC HANDLING PLAN

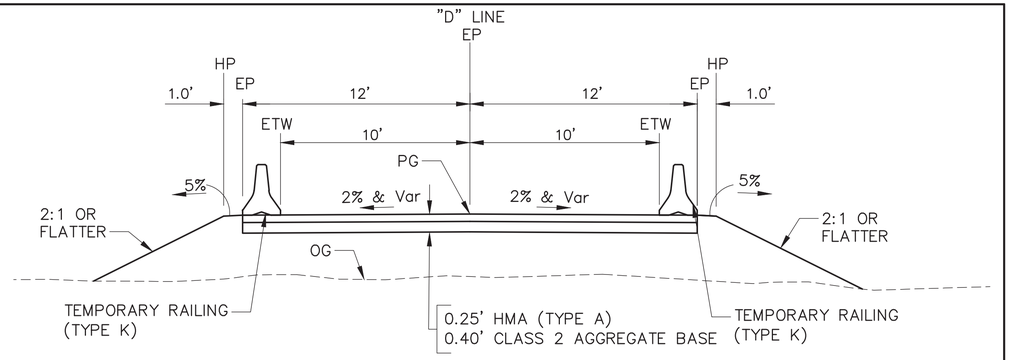
DRAWING NO. 11278 SHEET NO. 32 TOTAL 64

LEGEND

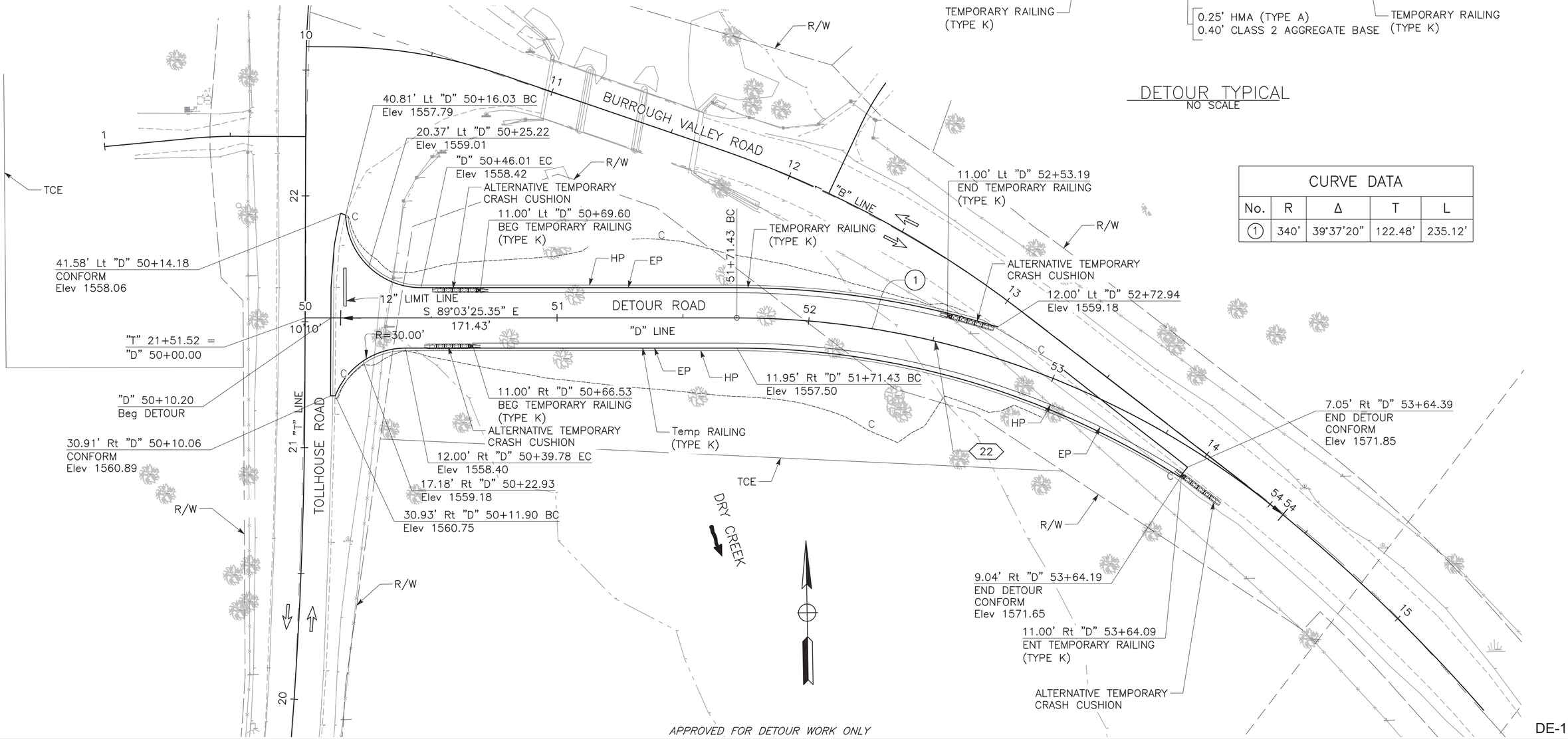
- RIGHT–OF–WAY / PROPERTY LINE
- CUT
- FILL
- DIRECTION OF TRAFFIC
- TEMPORARY PAINTED STRIPE

NOTES

1. FOR ACCURATE RIGHT–OF–WAY DATA, CONTACT RIGHT–OF–WAY ENGINEERING AT THE COUNTY OFFICE.
2. ALL STATION/OFFSET CALLOUTS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.



DETOUR TYPICAL
NO SCALE



CURVE DATA

No.	R	Δ	T	L
①	340'	39°37'20"	122.48'	235.12'

DE-1

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE
PLAN 0 20' 40' HZ
PROFILE 0 10' 20' VT

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. 70950 Exp. 6/23 STATE OF CALIFORNIA

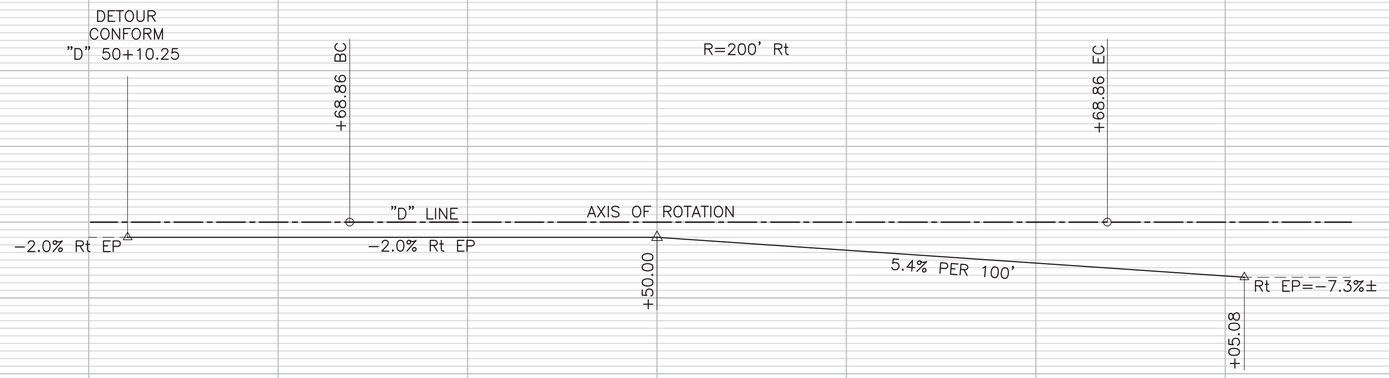
PROJECT
DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD
ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

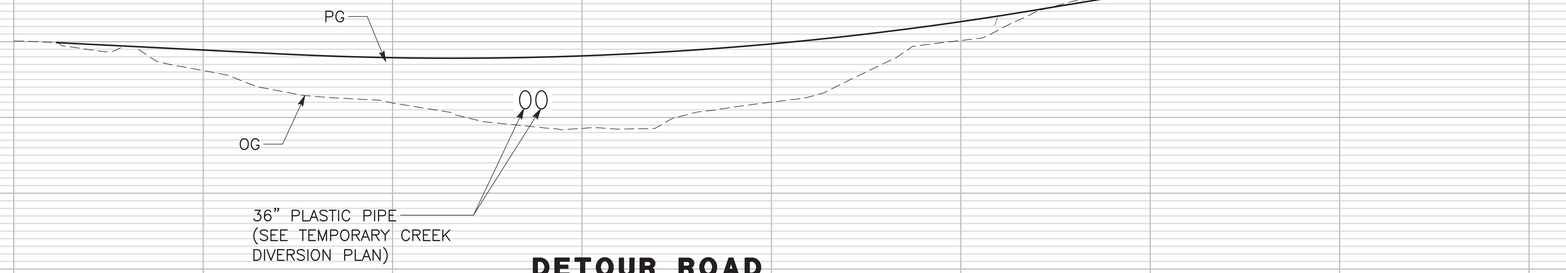
DETOUR PLAN

DRAWING NO. 11278 SHEET NO. 33 TOTAL 64



DETOUR ROAD SUPERELEVATION DIAGRAM

"D" LINE



DETOUR ROAD

"D" LINE

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE

PLAN 0 20' 40' HZ

PROFILE 0 10' 20' VT

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DETOUR SUPERELEVATION DIAGRAM AND PROFILE

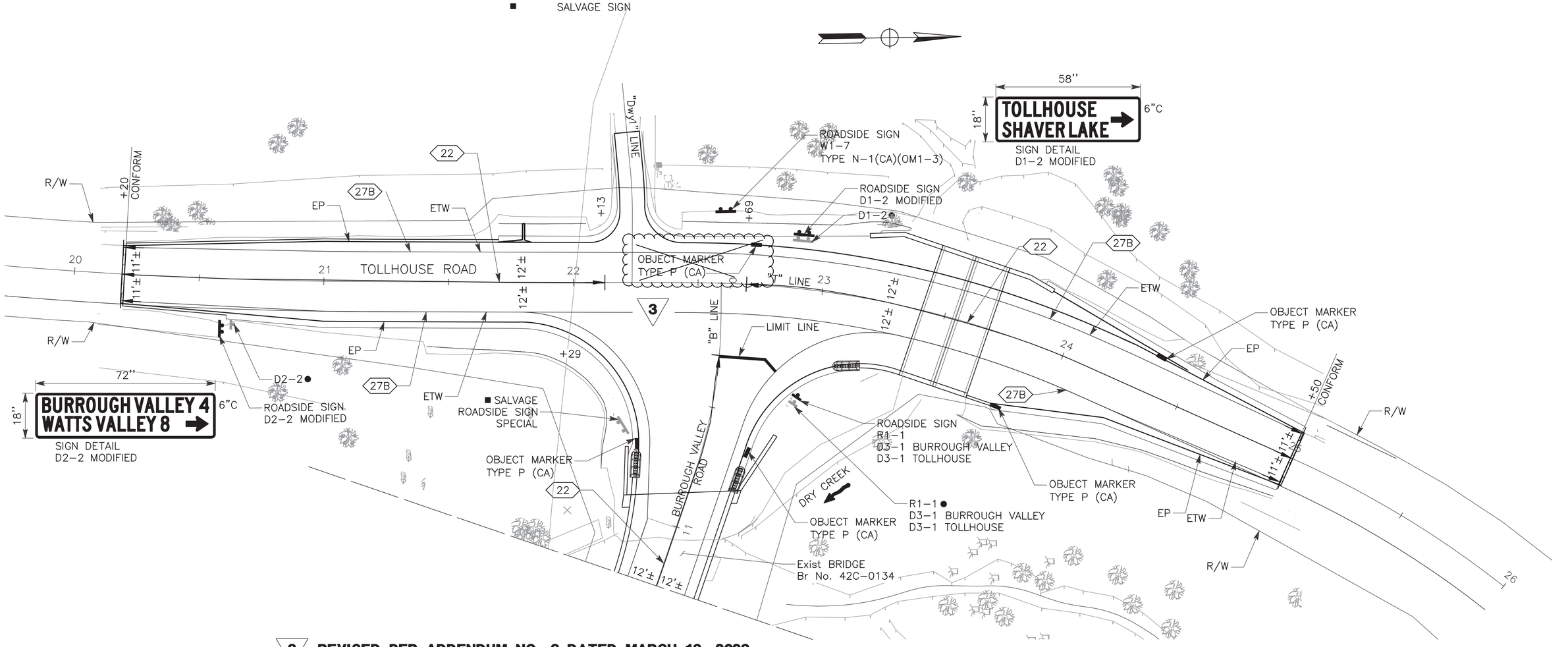
DRAWING NO. 11278 SHEET NO. 34 TOTAL 64

NOTES:

1. FOR ACCURATE RIGHT–OF–WAY DATA, SEE COUNTY OFFICE.
2. FOR ALL PAVEMENT STRIPING DETAILS, REFER TO CALTRANS STANDARD PLANS DATED 2015.
3. FOR ROADSIDE SIGN DETAILS, REFER TO 2014 VERSION OF THE CALIFORNIA MUTCD.
4. ALL TRAFFIC STRIPES SHALL BE THERMOPLASTIC.
5. EXISTING TRAFFIC STRIPES SHALL BE REMOVED PRIOR TO PAVEMENT BEING REMOVED OR OBLITERATED.
6. FOR STREET NAME SIGN, SEE FRESNO COUNTY DRAFT STANDARD DRAWING ST19 LOCATED IN THE SUPPLEMENTAL PROJECT INFORMATION.

LEGEND:

- BEGIN/END OF TRAFFIC STRIPE DETAIL
- (#) TRAFFIC STRIPE DETAIL NUMBER
- OBJECT MARKER TYPE P (CA)
- ROADSIDE SIGN (ONE POST)
- ROADSIDE SIGN (TWO POST)
- REMOVE ROADSIDE SIGN
- SALVAGE SIGN
- EXIST ROADSIDE SIGN (ONE POST)
- EXIST ROADSIDE SIGN (TWO POST)
- DELINEATOR CLASS 1
- STOP "STOP" PAVEMENT MARKING
- AHEAD "AHEAD" PAVEMENT MARKING



3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PD-1

	DATE	RECORD DRAWING		SCALE
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE	0 20' 40'
DRAWN: G. DANKE	11/2/22			
CHECKED: G. GROSS	11/2/22			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

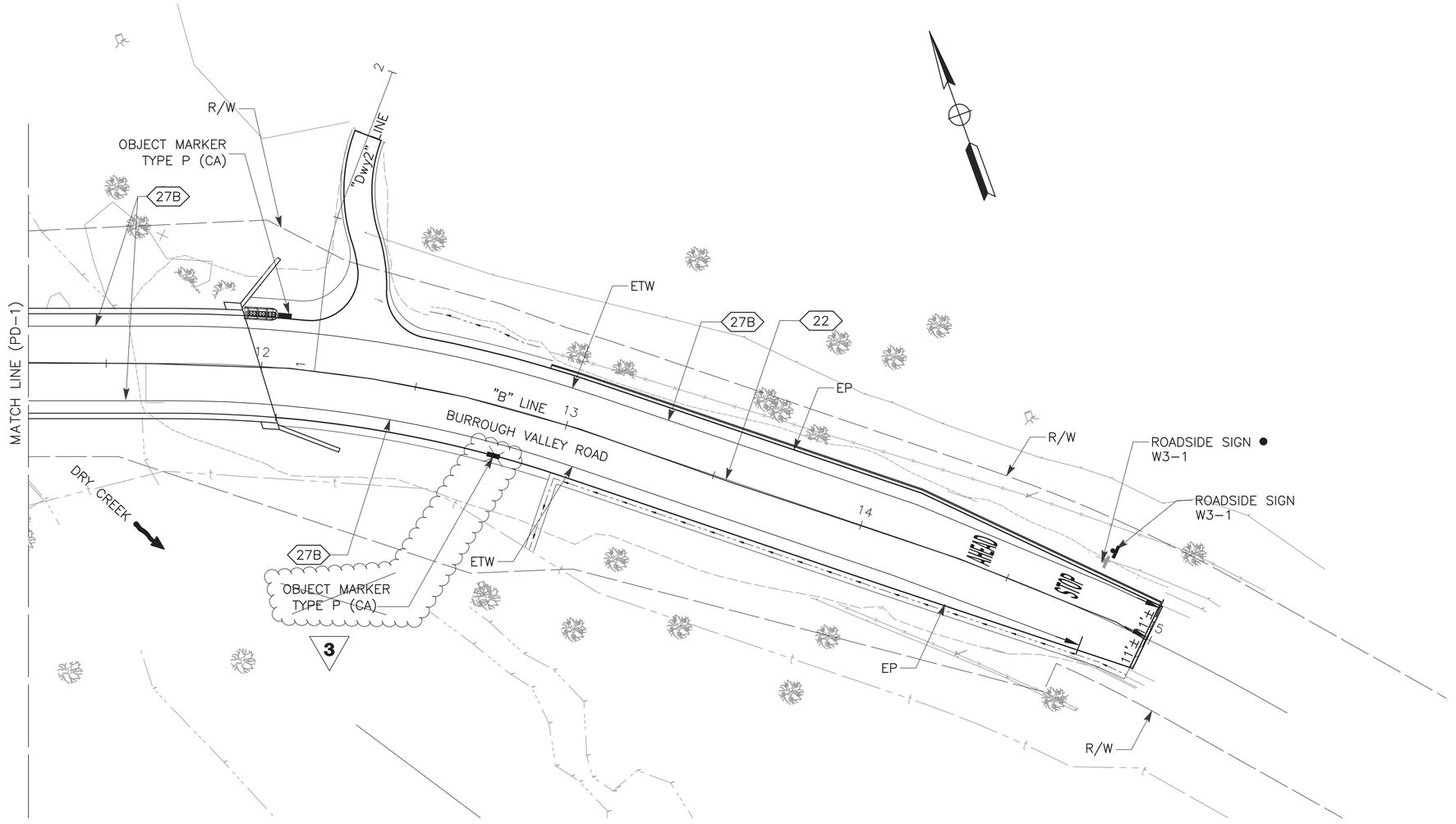
DEPARTMENT OF PUBLIC WORKS AND PLANNING

PAVEMENT DELINEATION AND SIGN PLAN

DRAWING NO. 11278 SHEET NO. 35 TOTAL 64

NOTE:

1. FOR ACCURATE RIGHT–OF–WAY DATA, SEE COUNTY OFFICE.



3 REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PD-2

	DATE	RECORD DRAWING	
DESIGNED: P. BRADBURY	11/2/22	RESIDENT ENGINEER	DATE
DRAWN: G. DANKE	11/2/22		
CHECKED: G. GROSS	11/2/22		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: 0 20′ 40′

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. 70950 — Exp. 6/23 — STATE OF CALIFORNIA

PROJECT

DRY CREEK BRIDGE REPLACEMENT ON BURROUGH VALLEY ROAD

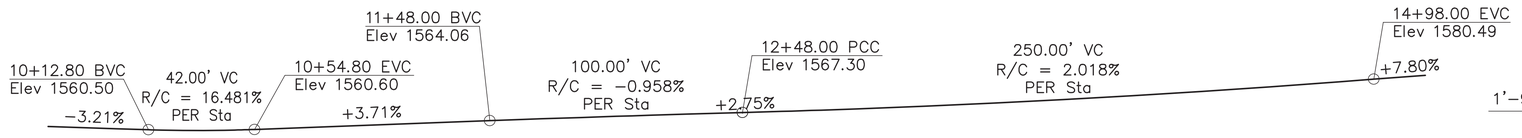
ROAD NO. — BRIDGE NO. 42C0710 / 42C0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

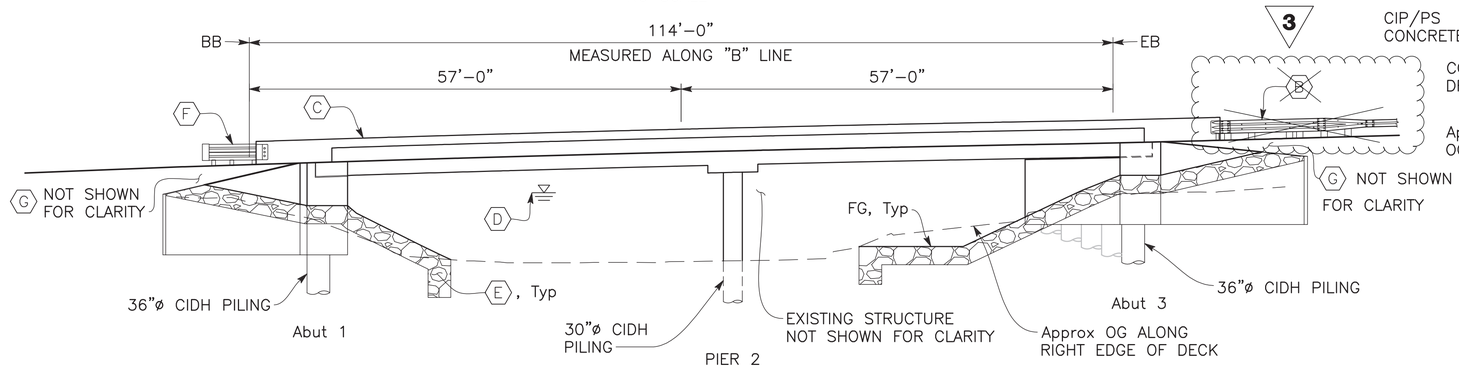
PAVEMENT DELINEATION AND SIGN PLAN

DRAWING NO. 11278 SHEET NO. 36 TOTAL 64



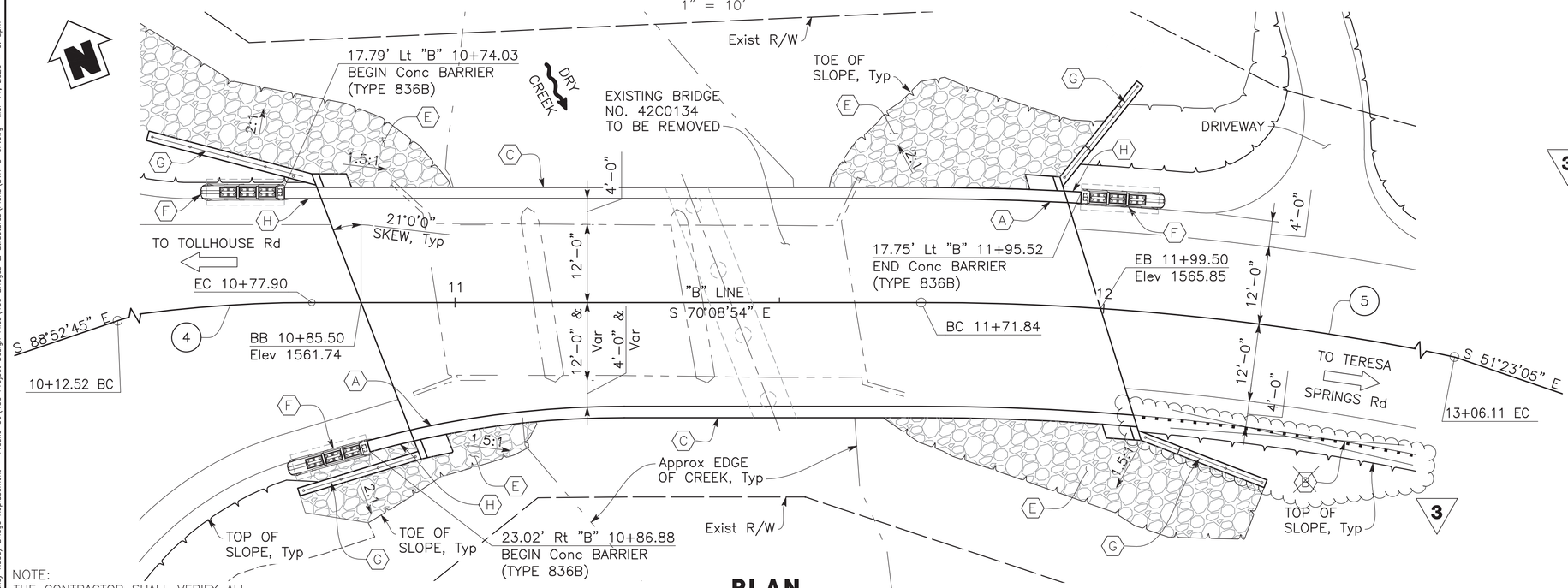
PROFILE GRADE

NO SCALE



ELEVATION

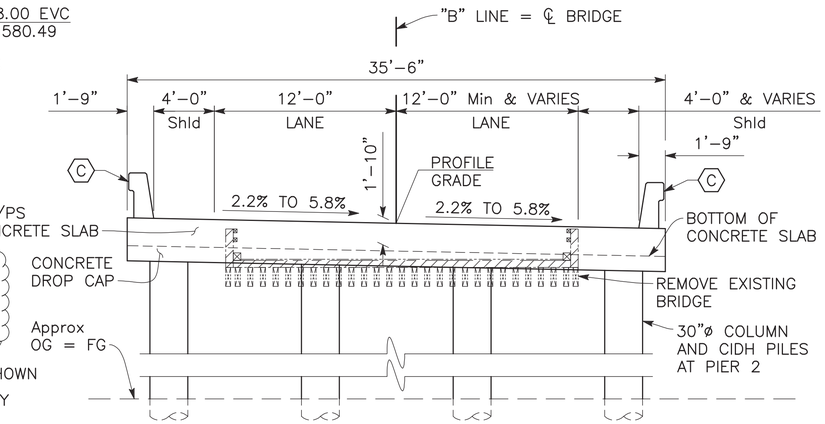
1" = 10'



PLAN

1" = 10'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL



TYPICAL SECTION

1" = 5'

LEGEND:

- Indicates Direction of Water Flow
- Indicates Direction of Traffic
- Indicates Existing Structure to be Removed
- Indicates New Structure
- Indicates High Water Elevation

KEY NOTES:

- (A) Paint Bridge Number 42C0710, year completed and "Dry Creek Br."
- 3 (B) ~~Midwest Guardrail System, see "Roadway Plans"~~
- (C) Concrete Barrier Type 836
- (D) 100 yr. WS Elevation = 1557.7'. For hydrologic data, see "Foundation Plan" sheet
- (E) For Rock Slope Protection and Grading Details, see "Roadway Plans"
- (F) Crash Cushion, see "Construction Details" on "Roadway Plans"
- (G) Cable Railing (B11−47 / −)
- (H) Concrete Barrier Type 836B

CURVE DATA				
No.	R	Δ	T	L
(4)	200.00'	18°43'51"	32.99'	65.38'
(5)	410.00'	18°45'49"	67.74'	134.27'

3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**

ST-1

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH — SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL T. PUGH — No. 13957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT: DRY CREEK ON BURROUGH VALLEY ROAD BRIDGE REPLACEMENT BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GENERAL PLAN

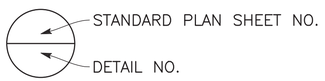
DRAWING NO. 11278 — SHEET NO. 37 — TOTAL 64

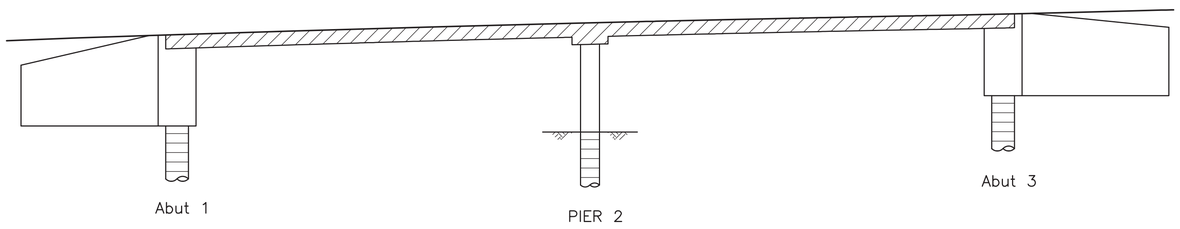
U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BWR-S-GP.dwg Mar 11, 2023 – 6:43pm

INDEX TO PLANS

CALTRANS STANDARD PLANS DATED 2015

	No.	Title
	A3A	ABBREVIATIONS (SHEET 1 OF 3)
	A3B	ABBREVIATIONS (SHEET 2 OF 3)
	A3C	ABBREVIATIONS (SHEET 3 OF 3)
	A10A	LEGEND – LINES AND SYMBOLS (SHEET 1 OF 5)
	A10B	LEGEND – LINES AND SYMBOLS (SHEET 2 OF 5)
	A10C	LEGEND – LINES AND SYMBOLS (SHEET 3 OF 5)
	A10D	LEGEND – LINES AND SYMBOLS (SHEET 4 OF 5)
	A10E	LEGEND – LINES AND SYMBOLS (SHEET 5 OF 5)
	A10F	LEGEND – SOIL (SHEET 1 OF 2)
	A10G	LEGEND – SOIL (SHEET 2 OF 2)
	A10H	LEGEND – ROCK
	A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL – BRIDGE
	B0–1	BRIDGE DETAILS
RSP	B0–3	BRIDGE DETAILS
	B0–13	BRIDGE DETAILS
	B6–21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP	B8–5	CAST–IN–PLACE POST–TENSIONED GIRDER DETAILS
	B11–47	CABLE RAILING
RSP	B11–79	CONCRETE BARRIER TYPE 836 DETAILS NO. 1 (2018)
RSP	B11–80	CONCRETE BARRIER TYPE 836 DETAILS NO. 2 (2018)





CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

LEGEND:

Structural Concrete, Bridge (f'c = 4000 psi @ 28 days)

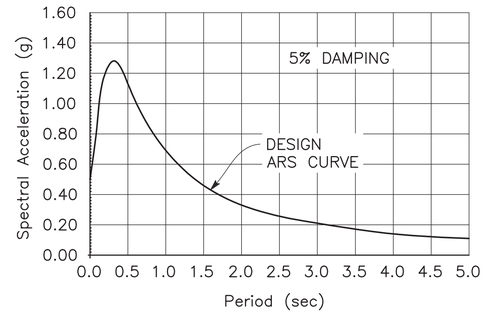
Structural Concrete, Bridge (Polymer Fiber) (See "SLAB DETAILS NO. 1" sheet)

CIDH Concrete Piling (f'c = 4000 psi @ 28 days)

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

LOAD RESISTANCE FACTOR DESIGN

DESIGN:	AASTHO LRFD Bridge Design Specifications, Sixth Edition, 2012 and the California Amendments, preface dated January 2014
SEISMIC DESIGN:	Caltrans Seismic Design Criteria (SDC), Version 2.0, April 2019
DEAD LOAD:	Includes 35 psf for future wearing surface and 100 plf for future utilities
LIVE LOADING:	HL93, Tandem, and permit design loading
SEISMIC LOADING:	Soil Profile: V_{s30} = 302 m/s Moment Magnitude = 7.9 Peak Ground Acceleration = 0.23g



REINFORCED CONCRETE:	fy = 60 ksi f'c = see "CONCRETE STRENGTH AND TYPE LIMITS" on "DECK CONTOURS" sheet. n = 8
PRESTRESSED CONCRETE:	See "PRESTRESSING NOTES" on "SLAB DETAILS NO. 1" sheet.

QUANTITIES

REMOVE BRIDGE	LS	1
STRUCTURE EXCAVATION (BRIDGE)	CY	234
STRUCTURE BACKFILL (BRIDGE)	CY	122
30" CAST–IN–DRILLED–HOLE CONCRETE PILING	LF	44
36" CAST–IN–DRILLED–HOLE CONCRETE PILING	LF	188
30" CAST–IN–DRILLED–HOLE CONCRETE PILING (ROCK SOCKET)	LF	32
36" CAST–IN–DRILLED–HOLE CONCRETE PILING (ROCK SOCKET)	LF	80
PRESTRESSING CAST–IN–PLACE CONCRETE	LS	1
STRUCTURAL CONCRETE, BRIDGE	CY	234
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	286
JOINT SEAL (MR = 1")	LF	91
BAR REINFORCING STEEL, BRIDGE	LB	86,000
CABLE RAILING	LF	88
CONCRETE BARRIER TYPE 836	LF	234
CONCRETE BARRIER TYPE 836B	LF	16

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 63957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

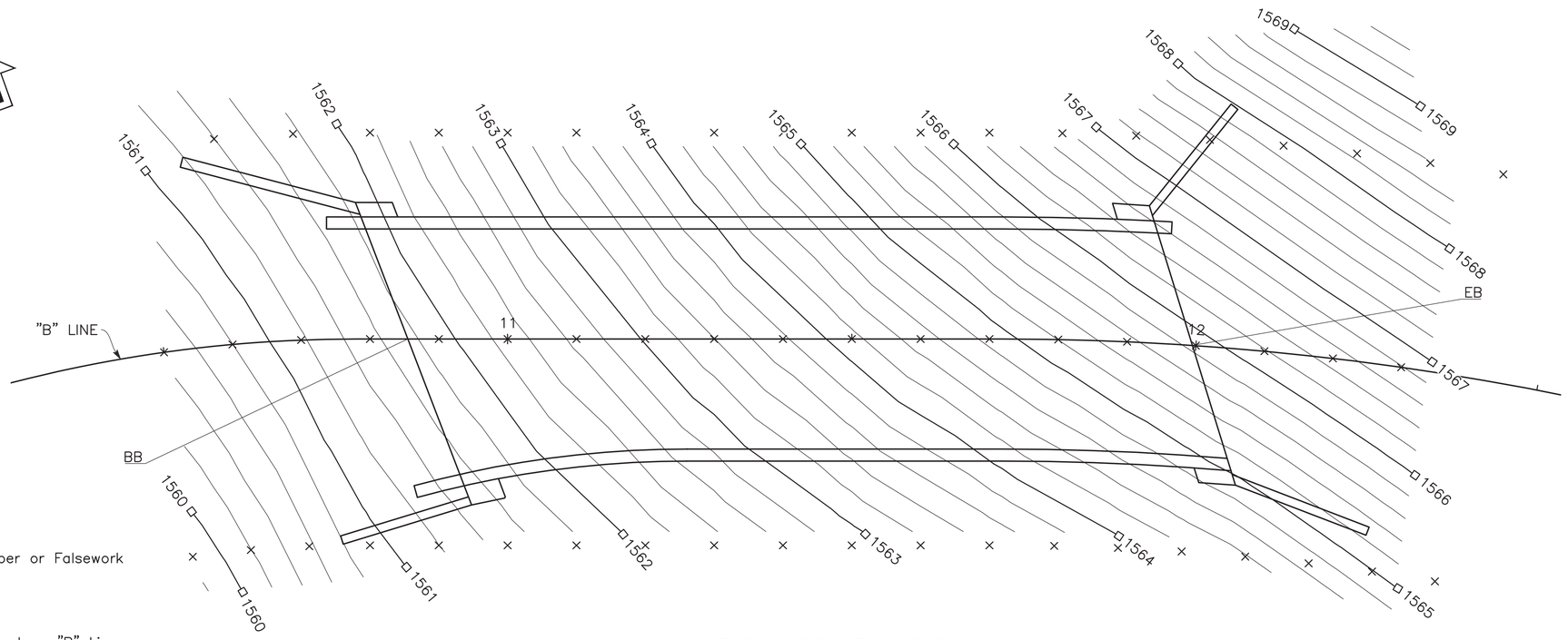
THE COUNTY OF FRESNO — 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GENERAL NOTES

DRAWING NO. 11278 — SHEET NO. 38 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR-S-GN.dwg Mar 11, 2023 – 6:44pm

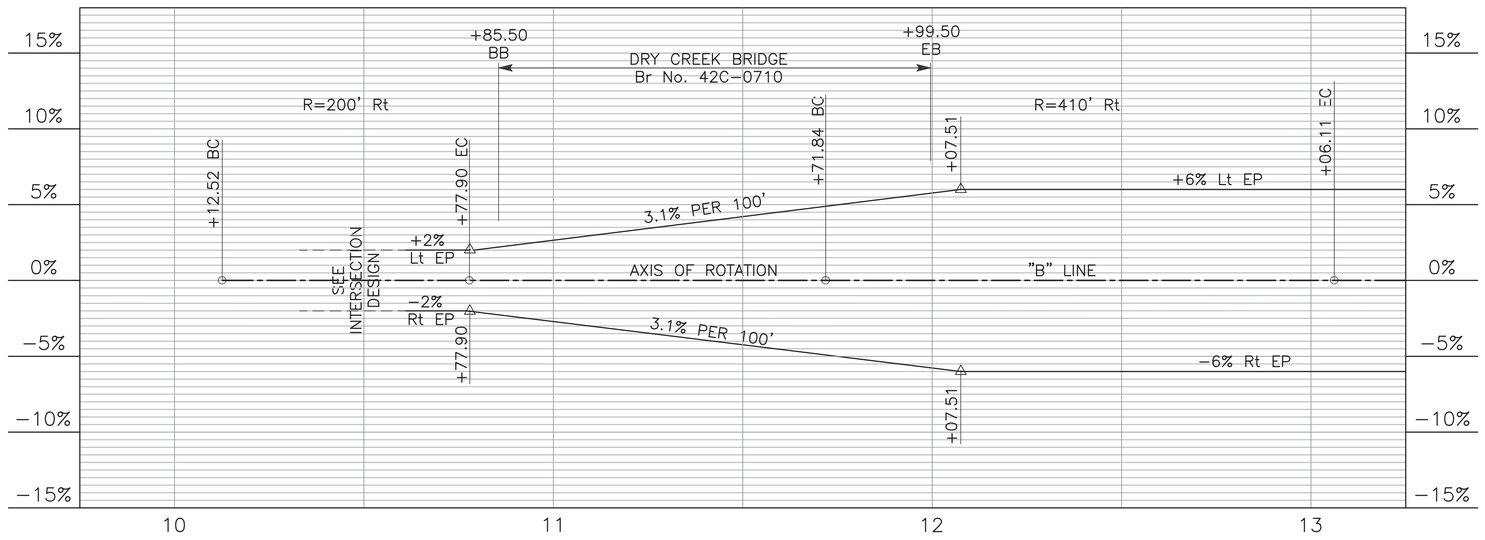


DECK CONTOURS

1" = 10'

NOTES:

1. Contours do not include Camber or Falsework Settlement.
2. 0.2' Contour Interval.
3. × = Indicates 10' increments along "B" Line.
4. □ = Indicates whole foot contours.



SUPERELEVATION DIAGRAM

1" = 20'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

ST-3

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 03957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

COUNTY OF FRESNO — 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DECK CONTOURS

DRAWING NO. 11278 — SHEET NO. 39 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BWR-S-DC.dwg Mar 11, 2023 – 6:45pm

BENCH MARKS:

See "Roadway Plans"

PILE DATA TABLE

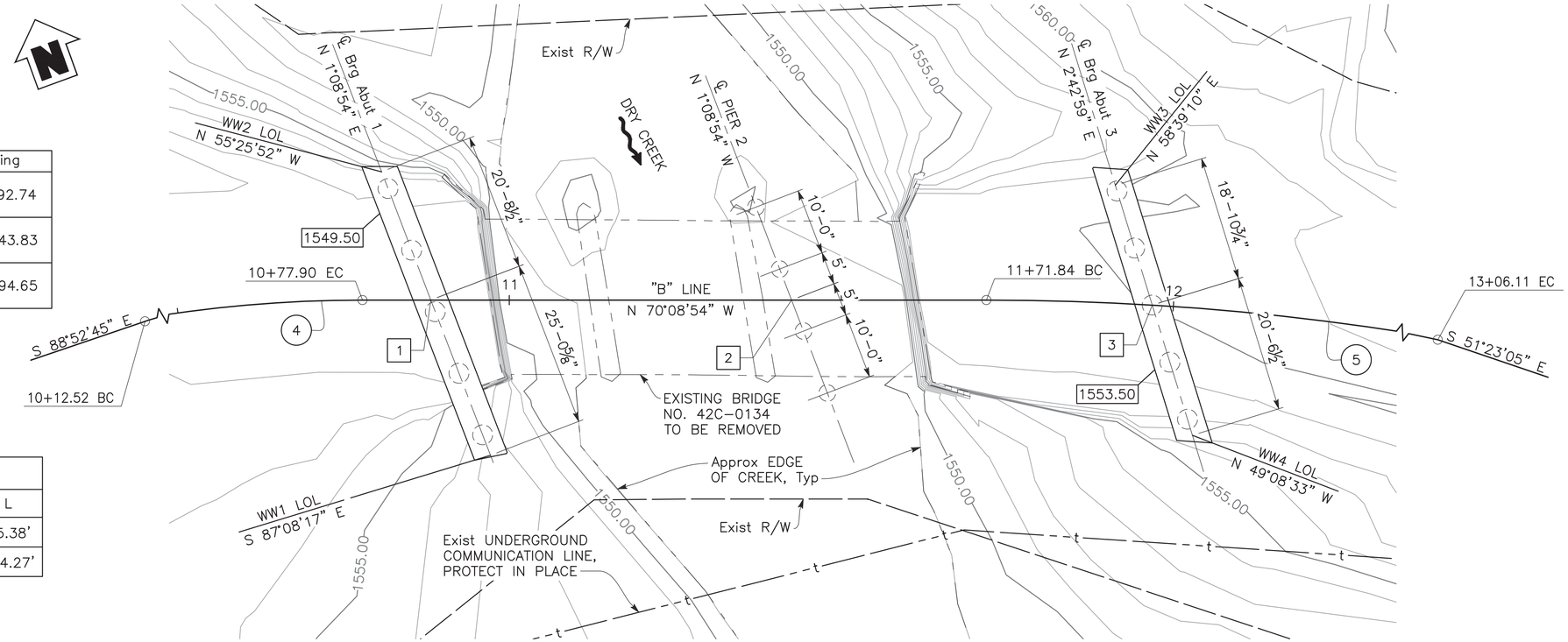
LOCATION	PILE TYPE	CUT–OFF ELEVATION	ESTIMATED BEDROCK ELEVATION	NOMINAL RESISTANCE (kips)		DESIGN TIP ELEVATIONS (ft)	SPECIFIED TIP ELEVATIONS (ft)
				COMPRESSION	TENSION		
Abutment 1	36" CIDH	1549.75	1536.00	350	N/A	1533 (a); 1533 (a–1); N/A (b); 1534 (c); 1528 (d)	1528.00
Pier 2	30" CIDH	1547.00	1536.00	965	N/A	1529 (a); 1528 (a–1); N/A (b); 1532 (c); 1528 (d)	1528.00
Abutment 3	36" CIDH	1553.75	1530.00	350	N/A	1527 (a); 1527 (a–1); N/A (b); 1528 (c); 1522 (d)	1522.00

NOTES:
1. Design tip elevations are controlled by: (a) Compression (Service Limit), (a–1) Compression (Strength Limit), (b) Tension, (c) Settlement, and (d) Lateral load.
2. The CIDH specified tip elevation must not be raised, unless authorized by Engineer.
3. Tip elevations are based on estimated bedrock elevations.

HYDROLOGIC SUMMARY

DRAINAGE AREA: 13.5 SQUARE MILES		
Frequency (Years)	DESIGN FLOOD	BASE FLOOD
	50	100
Discharge (Cubic feet per second)	4,895	5,856
Water Surface Elevation (Ft) Immediately Upstream of Bridge	1,556.9	1,557.7

	Northing	Easting
1 ℄ Brg Abut 1 Sta 10+88.18	2244764.65	6440892.74
2 ℄ PIER 2 Sta 11+42.50	2244746.20	6440943.83
3 ℄ Brg Abut 3 Sta 11+96.83	2244727.04	6440994.65



PLAN
1" = 10'

CURVE DATA

No.	R	Δ	T	L
④	200.00'	18°43'51"	32.99'	65.38'
⑤	410.00'	18°45'49"	67.74'	134.27'

SCOUR DATA

Support Number	Long Term (Degredation, Contraction and Local) Scour Elevation (Ft)	Approximate Non Erodible Strata Elevation (Ft)
Abutment 1	1,543.00	1536.00
Pier 2	1,541.00	1536.00
Abutment 3	1,543.00	1530.00

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

LEGEND:

- Indicates Bottom of Footing Elevation
- Indicates Existing Structure to be Removed
- Indicates New Structure
- Indicates 36"ø Cast–In–Drilled–Hole Concrete Pile
- Indicates 30"ø Cast–In–Drilled–Hole Concrete Pile
- Indicates Direction of Water Flow

ST-4

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 13957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

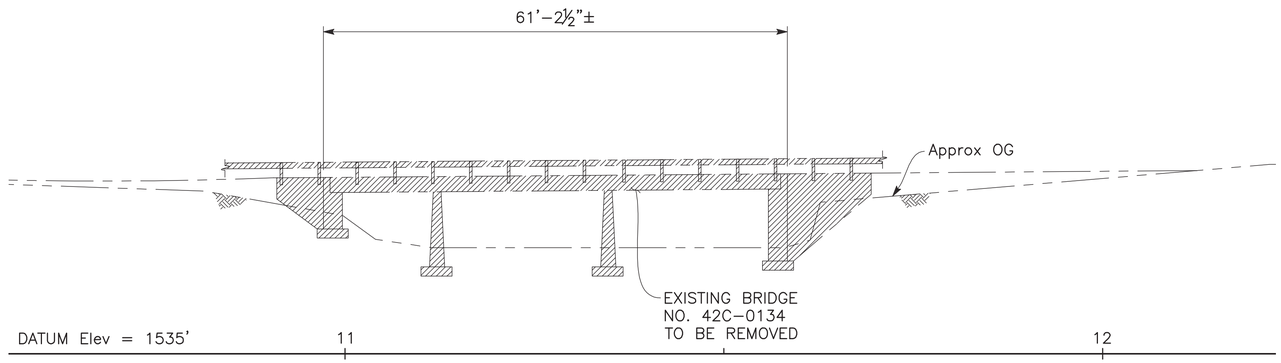
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

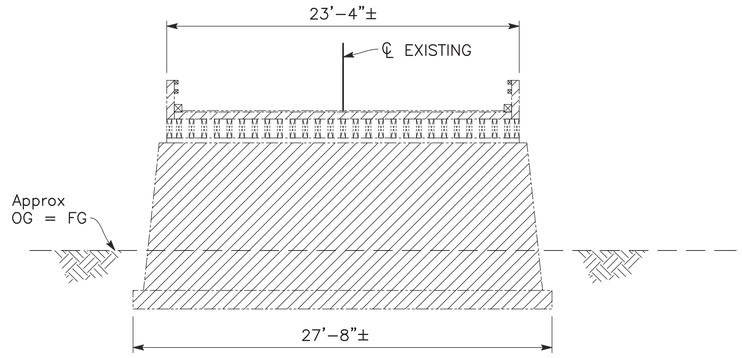
FOUNDATION PLAN

DRAWING NO. 11278 — SHEET NO. 40 — TOTAL 64

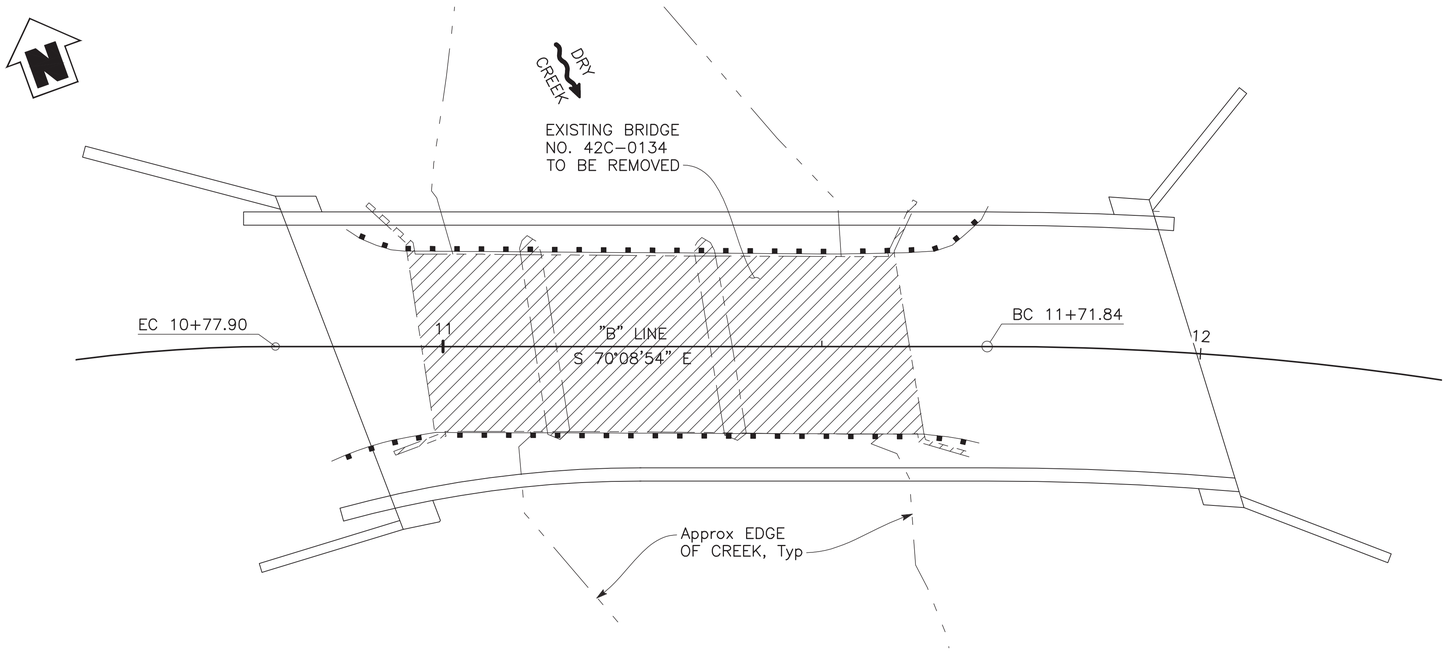
U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR–S–FP.dwg Mar 11, 2023 – 6:46pm



ELEVATION
1" = 10'



TYPICAL SECTION
1" = 5'



PLAN
1" = 10'

NOTES:

1. Remove Entire Existing Bridge Structure including Deck, Beams, Pier Walls, Abutment Walls, Wingwalls (Concrete, Stacked Rock, and Concrete Filled Tire Walls), Footings, and Railing.
2. The Existing Timber Beams, Abutments Sill Plates, and other miscellaneous timber members are Treated Wood Waste.

LEGEND:

- Indicates Direction of Water Flow
- Indicates Existing Structure to be Removed
- Indicates New Structure

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

ST-5

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH — SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MANUEL A. PUGH — No. 13957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

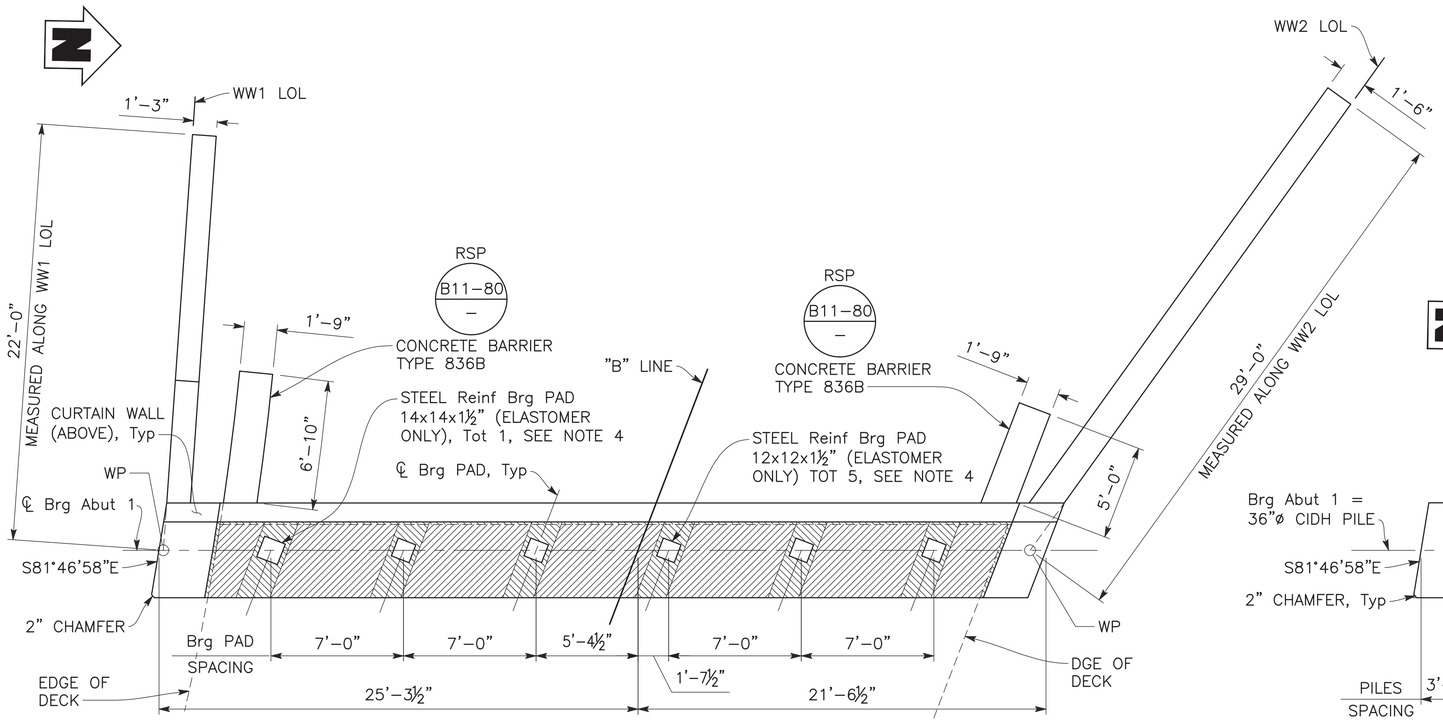
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

BRIDGE REMOVAL DETAILS

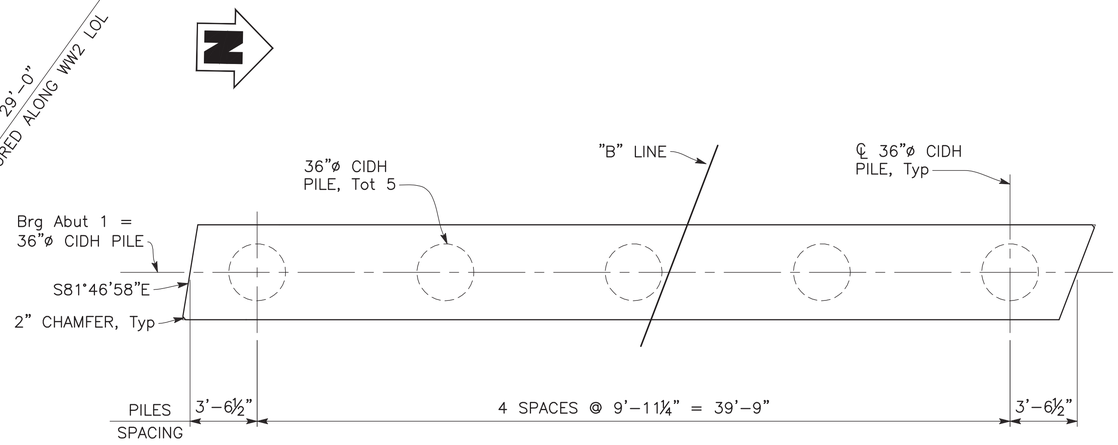
DRAWING NO. 11278 — SHEET NO. 41 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BrR–S–BR.dwg Mar 11, 2023 – 6:47pm



PLAN

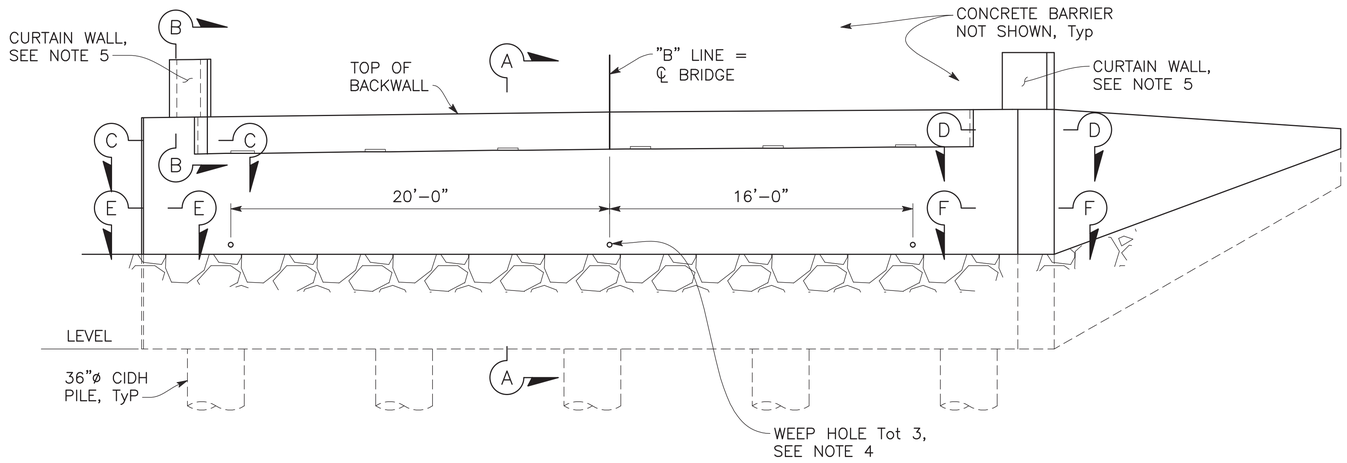
¼" = 1'–0"



ABUTMENT PILE LAYOUT

¼" = 1'–0"

ABUTMENT 1 SHOWN, ABUTMENT 3 SIMILAR



ELEVATION

¼" = 1'–0"

NOTES:

1. For "SECTION A–A", see "ABUTMENT DETAILS NO. 1" Sheet.
2. For "SHEAR KEY DETAIL", "SECTION B–B", "SECTION C–C", and "SECTION D–D", see "ABUTMENT DETAILS NO. 2" sheet.
3. For "SECTION E–E", and "SECTION F–F", see "ABUTMENT DETAILS NO. 3" sheet.
4. For "BEARING PAD DETAIL" and "WEEP HOLE AND GEOCOMPOSITE DRAIN DETAILS" see "ABUTMENT DETAILS NO. 5" sheet.
5. Curtain wall to close gap between Concrete Barrier and cable railing.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

ST-6

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH — SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER · MICHAEL A. PUGH · No. 19967 · Exp. 03/31/23 · STRUCTURAL · STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

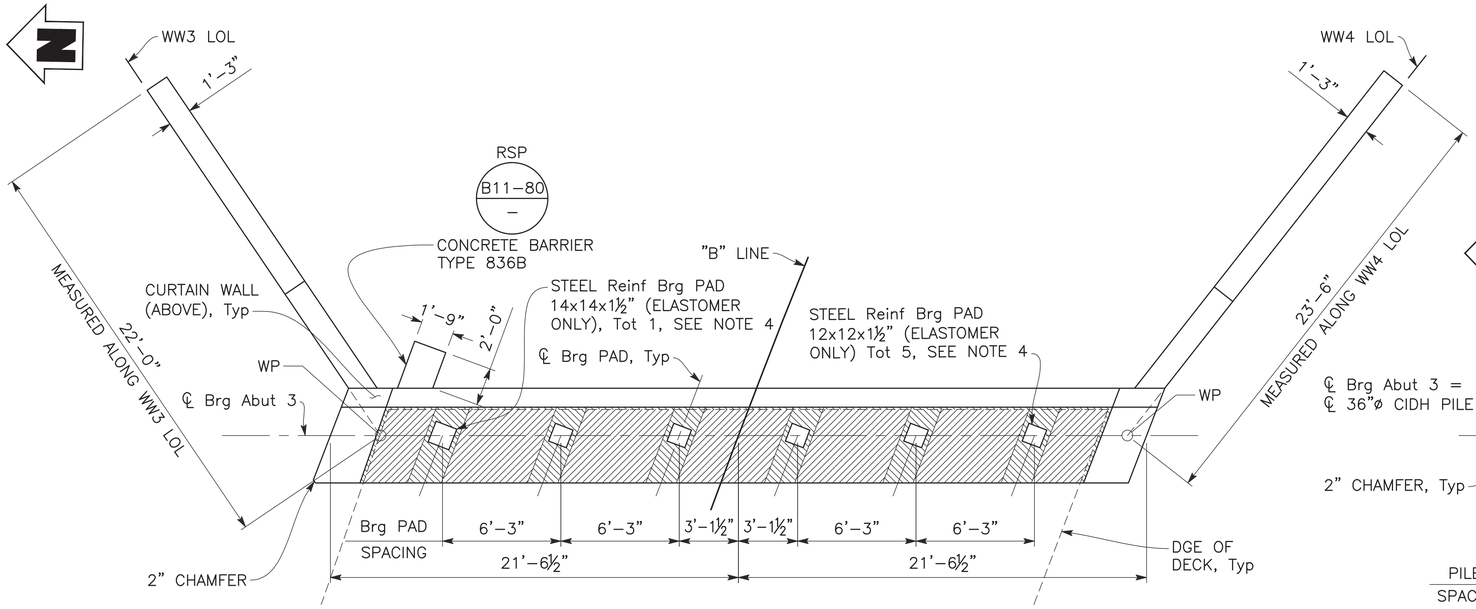
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ABUTMENT 1 LAYOUT

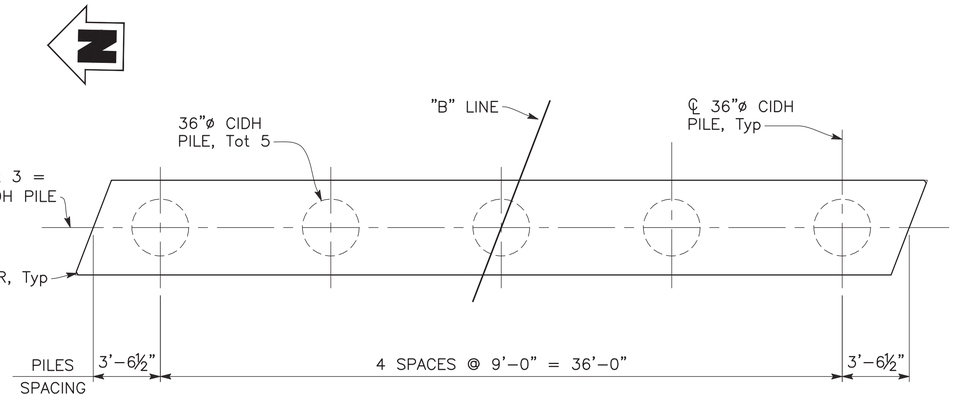
DRAWING NO. 11278 — SHEET NO. 42 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BWR–S–AL.dwg Mar 11, 2023 – 6:49pm



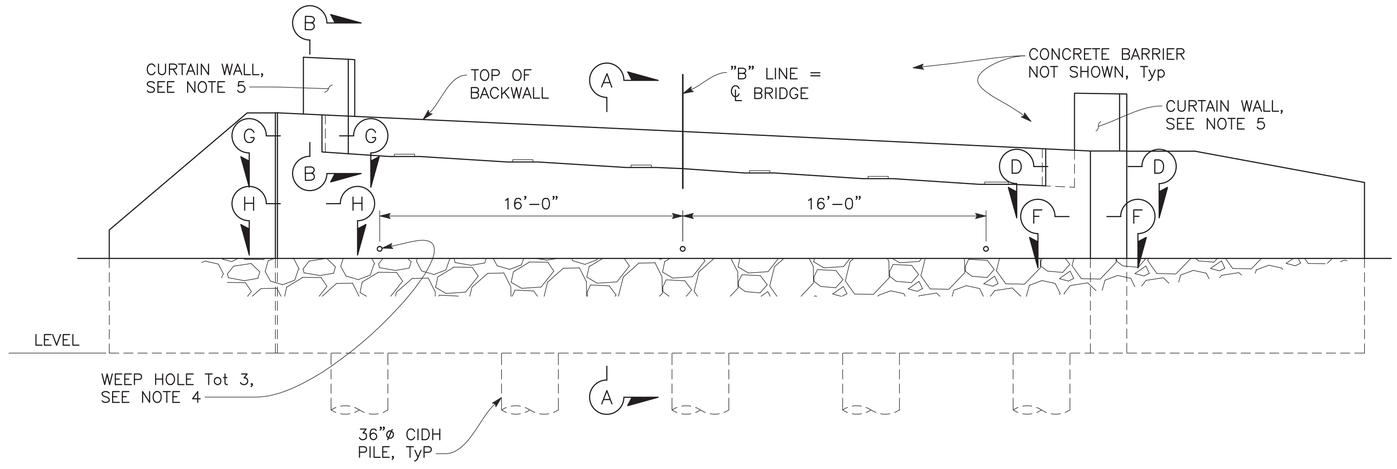
PLAN

¼" = 1'-0"



ABUTMENT PILE LAYOUT

¼" = 1'-0"



ELEVATION

¼" = 1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

NOTES:

1. For "SECTION A–A", see "ABUTMENT DETAILS NO. 1" Sheet.
2. For "SHEAR KEY DETAIL", "SECTION B–B", and "SECTION D–D", see "ABUTMENT DETAILS NO. 2" sheet.
3. For "SECTION F–F", "SECTION G–G", and "SECTION H–H", see "ABUTMENT DETAILS NO. 3" sheet.
4. For "BEARING PAD DETAIL" and "WEEP HOLE AND GEOCOMPOSITE DRAIN DETAILS" see "ABUTMENT DETAILS NO. 5" sheet.
5. Curtain wall to close gap between Concrete Barrier and cable railing.

ST-7

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 13957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

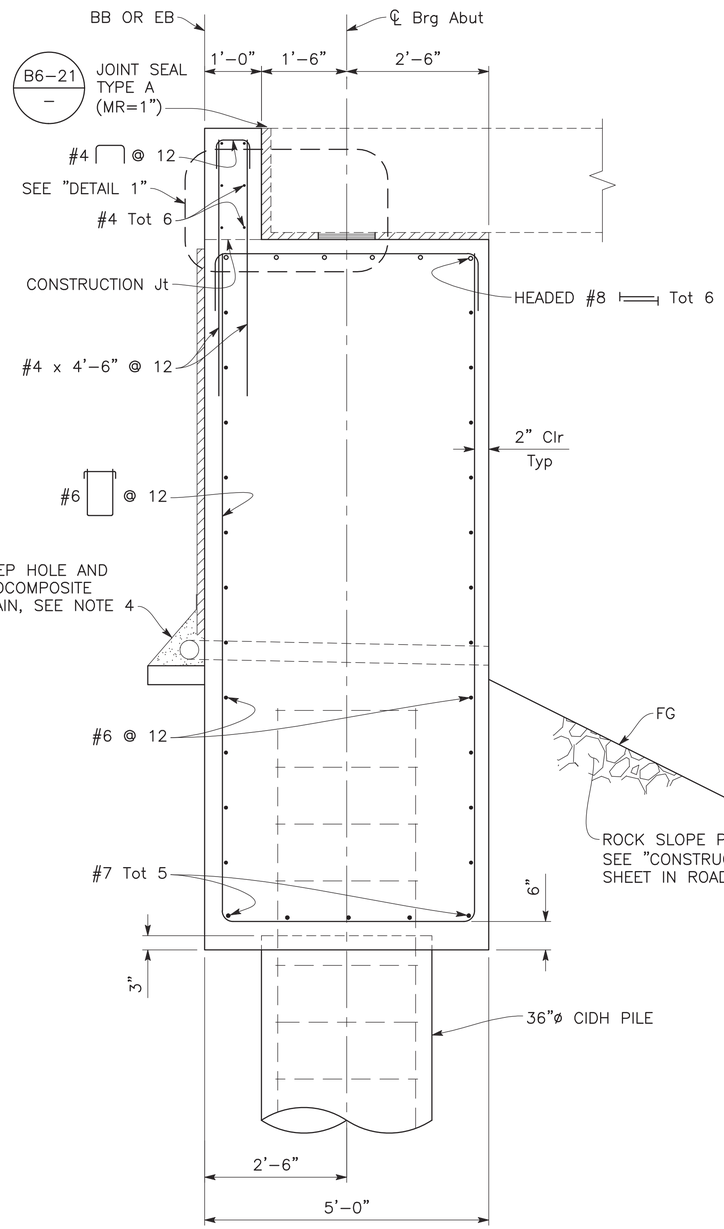
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ABUTMENT 3 LAYOUT

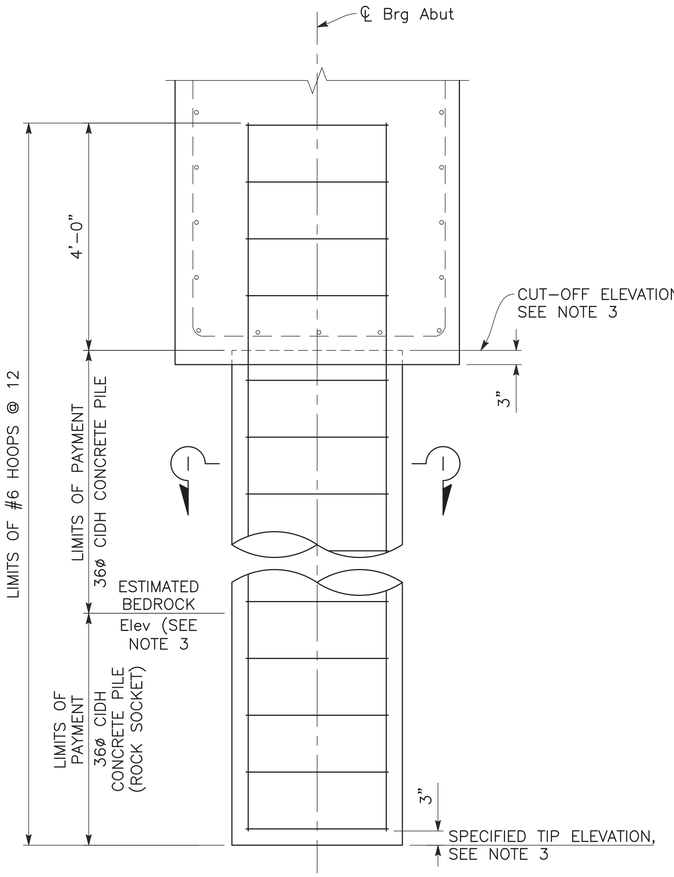
DRAWING NO. 11278 — SHEET NO. 43 — TOTAL 64

U:\15027 - Dry Creek (Burrough Valley Road) Bridge Replacement - Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR-S-AL.dwg Mar 11, 2023 - 6:49pm



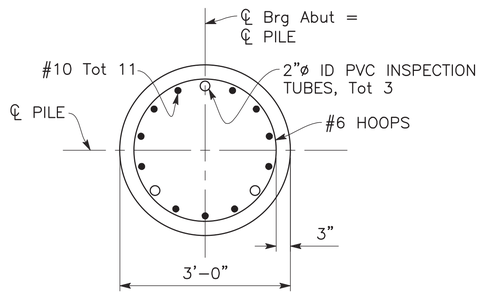
SECTION A-A

¾" = 1'–0"



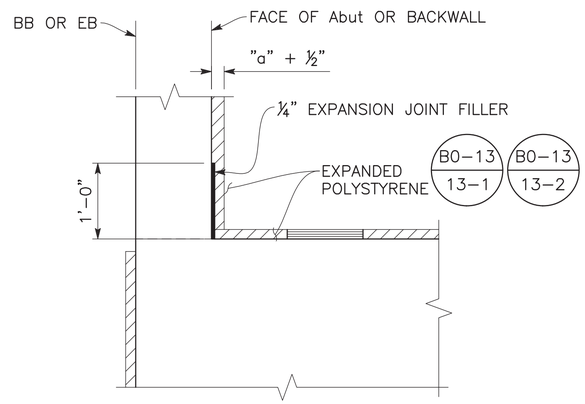
36" CIDH PILE

¾" = 1'–0"



SECTION I-I

¾" = 1'–0"



DETAIL 1

1" = 1'–0"

NOTES:

1. No splices allowed in main longitudinal CIDH Reinforcment.
2. All hoops must be "ultimate" butt weld spliced.
3. For Pile Data Table, see "FOUNDATION PLAN" sheet.
4. For "WEEP HOLE AND GEOCOMPOSITE DRAIN DETAILS" see "ABUTMENT DETAILS NO. 5" sheet.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

ST-8

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 13957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

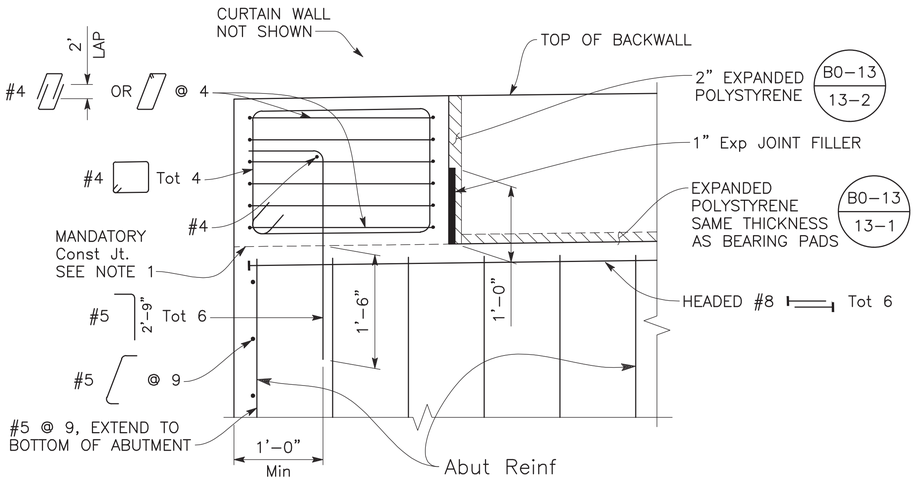
ROAD NO. — BRIDGE NO. 42C-0710

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ABUTMENT DETAILS NO. 1

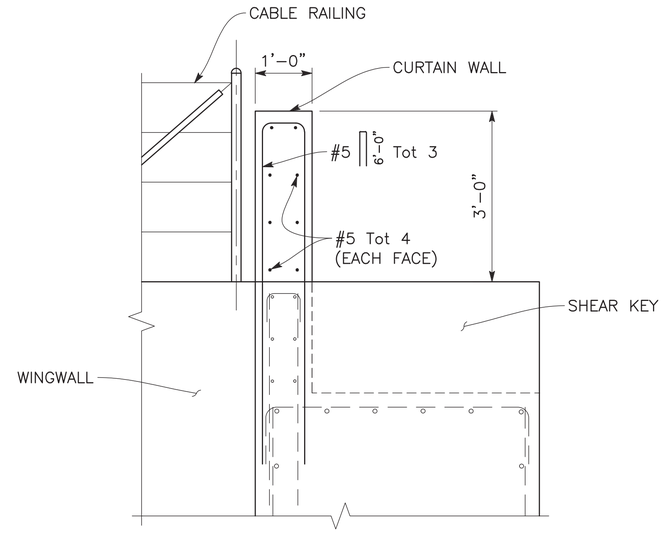
DRAWING NO. 11278 — SHEET NO. 44 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR–S–AL.dwg Mar 11, 2023 – 6:49pm



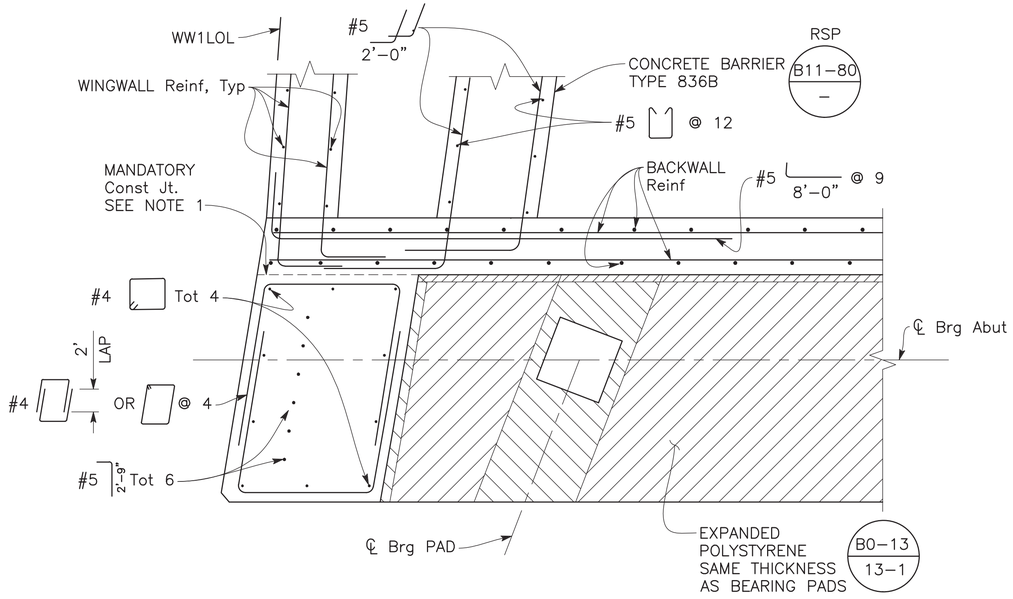
TYPICAL SHEAR KEY DETAIL

1" = 1'–0"



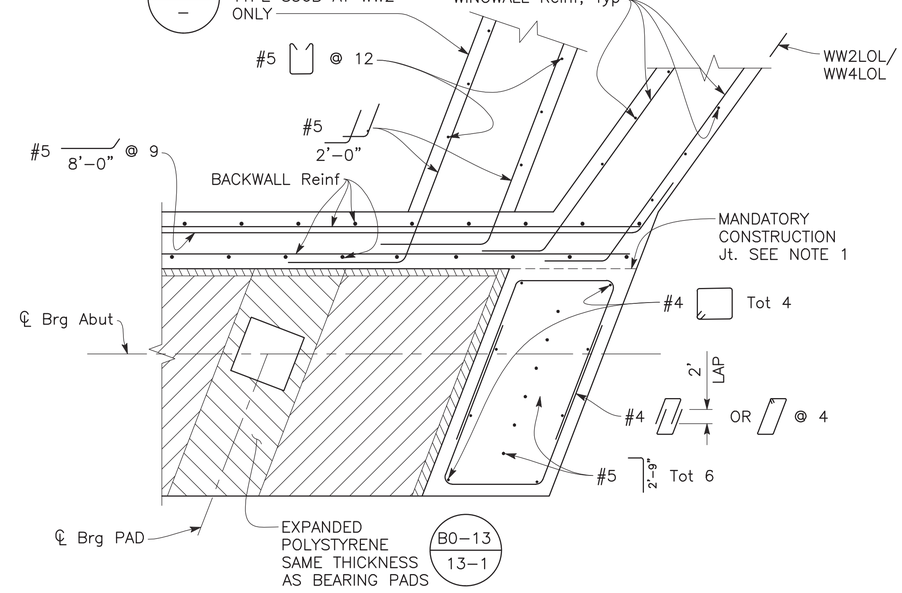
SECTION B-B

1" = 1'–0"



SECTION C-C

¾" = 1'–0"



SECTION D-D

¾" = 1'–0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

NOTE:

1. Joint must be smooth finished and lined with 15 pound construction paper.

ST-9

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 33957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

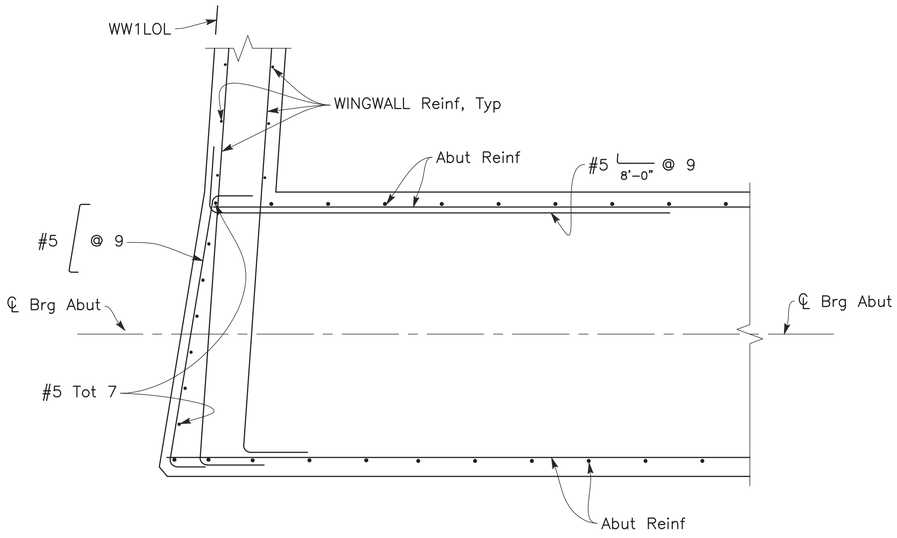
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ABUTMENT DETAILS NO. 2

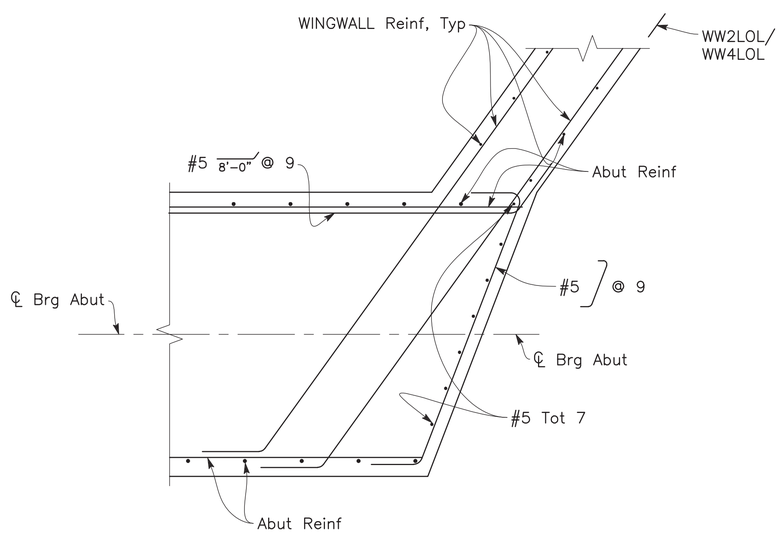
DRAWING NO. 11278 — SHEET NO. 45 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BXR–S–AL.dwg Mar 11, 2023 – 6:50pm



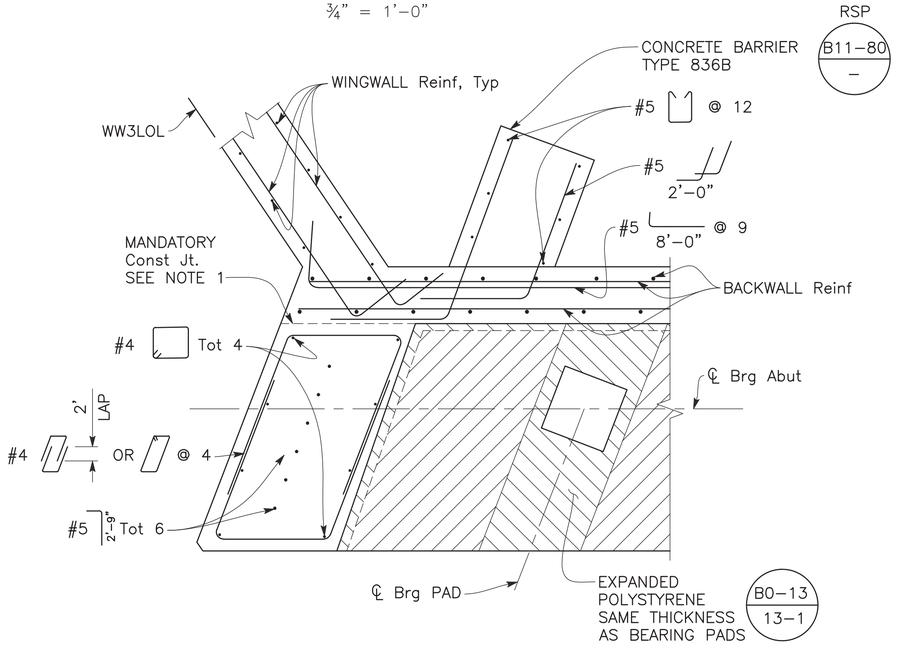
SECTION E-E

¾" = 1'-0"



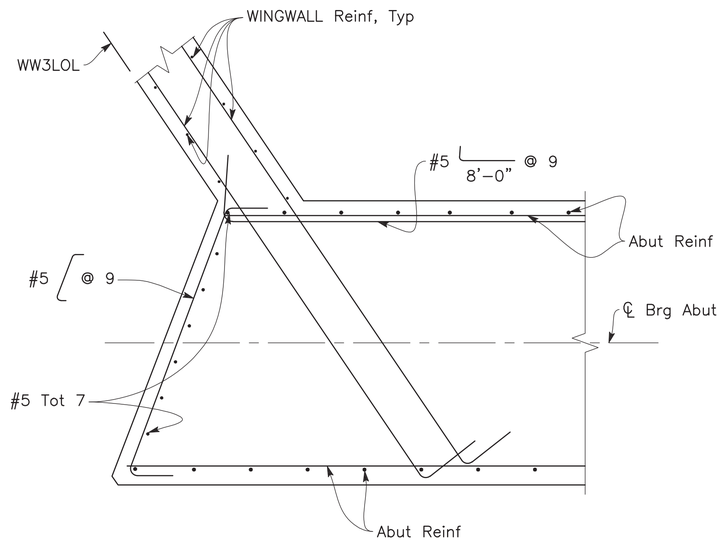
SECTION F-F

¾" = 1'-0"



SECTION G-G

¾" = 1'-0"



SECTION H-H

¾" = 1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

NOTE:

1. Joint must be smooth finished and lined with 15 pound construction paper.

ST-10

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 13957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

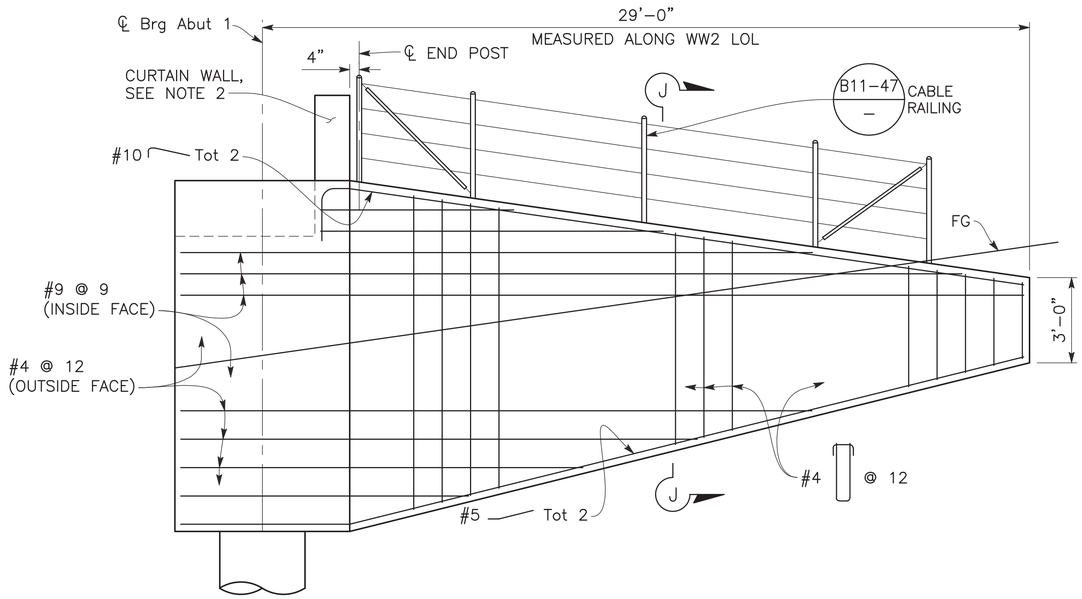
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ABUTMENT DETAILS NO. 3

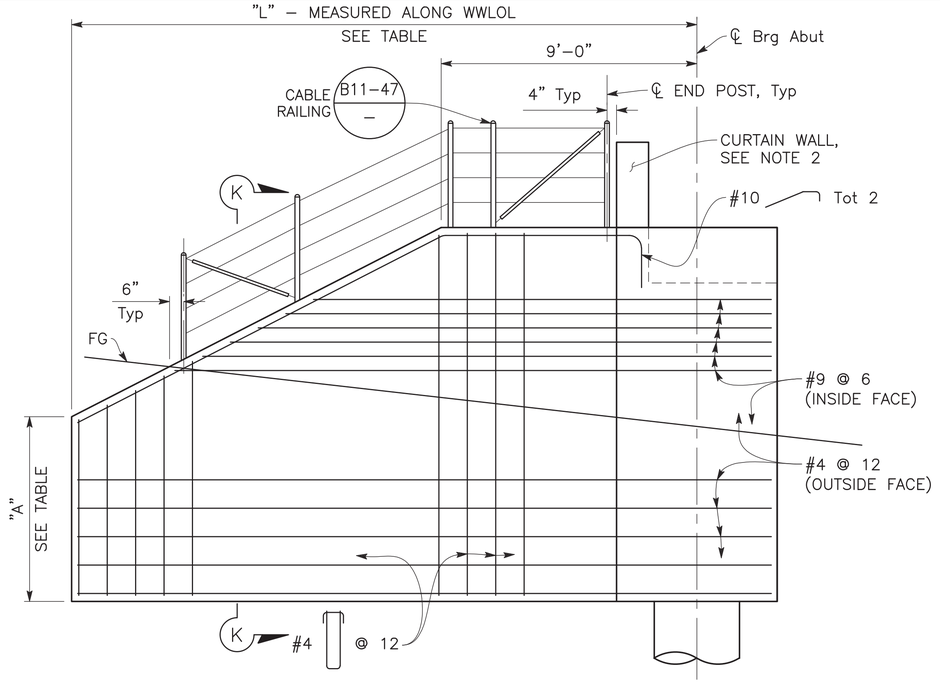
DRAWING NO. 11278 — SHEET NO. 46 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR-S-AL.dwg Mar 11, 2023 – 6:50pm



WINGWALL NO. 2 DEVELOPED ELEVATION

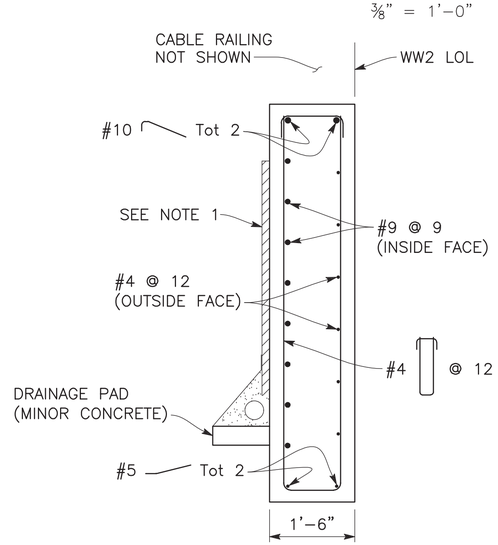
⅜" = 1'–0"



TYPICAL WINGWALL DEVELOPED ELEVATION

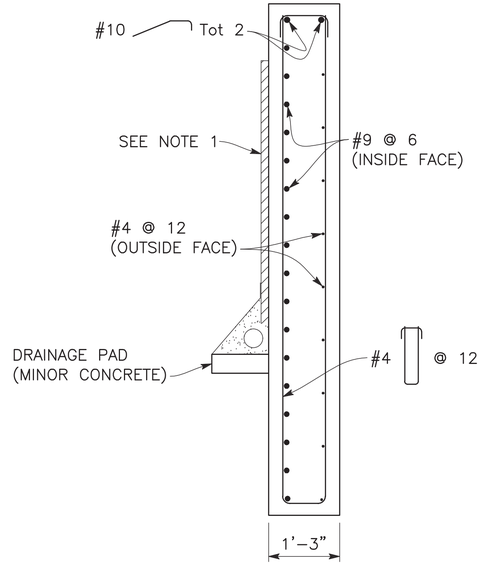
⅜" = 1'–0"

WINGWALL DATA TABLE		
Location	"L"	"A"
WW No. 1	22'–0"	8'–0"
WW No. 3	22'–0"	6'–6"
WW No. 4	23'–6"	9'–0"



SECTION J-J

¾" = 1'–0"



SECTION K-K

¾" = 1'–0"

NOTES:

1. For "WEEP HOLE AND GEOCOMPOSITE DRAIN DETAILS" see "ABUTMENT DETAILS No. 5" sheet.
2. Curtain wall to close gap between Concrete Barrier and Cable Railing. See "ABUTMENT LAYOUT" sheets.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

ST-11

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 19957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

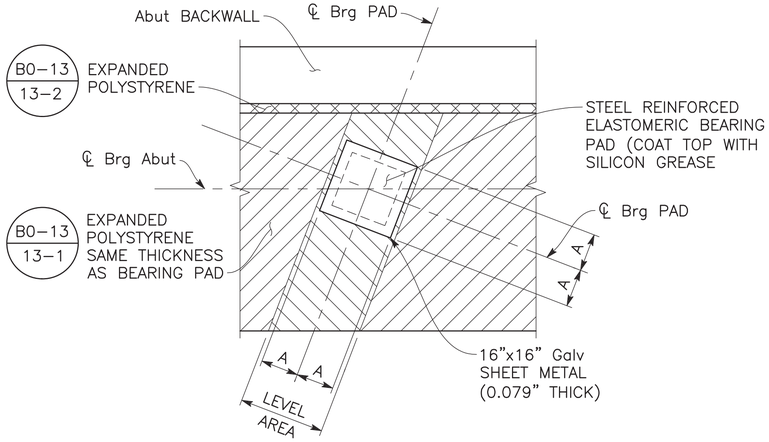
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ABUTMENT DETAILS NO. 4

DRAWING NO. 11278 — SHEET NO. 47 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR–S–A0.dwg Mar 11, 2023 – 6:51pm



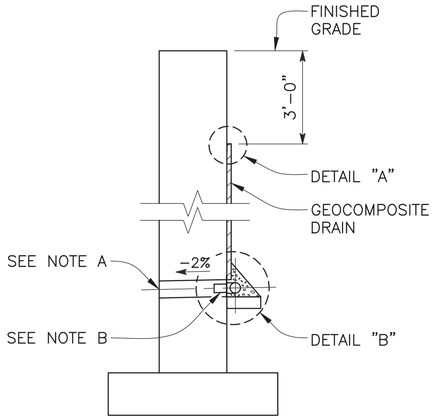
PLAN

ELEVATION

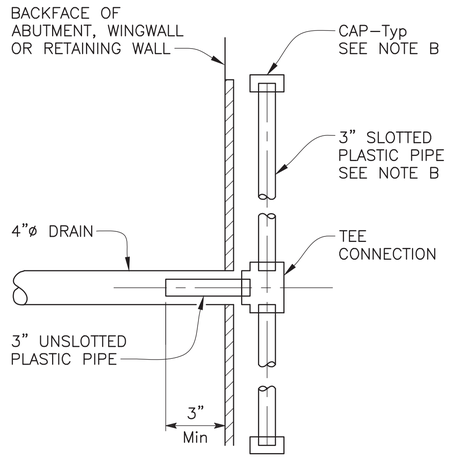
BEARING PAD DETAIL

¾" = 1'–0"

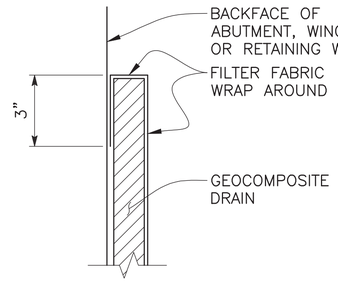
Bearing Pad Size	A (Inches)
12 x 12 x 1½"	6
14 x 14 x 1½"	7



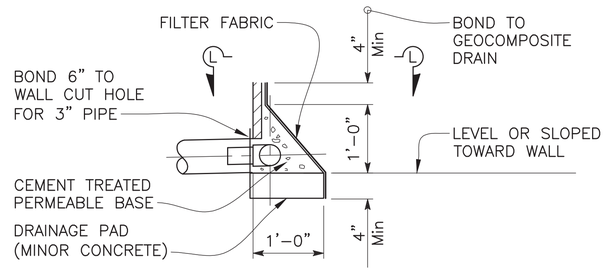
WALL SECTION



SECTION L-L



DETAIL "A"



DETAIL "B"

ALTERNATIVE TO BRIDGE DETAIL B0–3 / 3–1

WEEP HOLE AND GEOCOMPOSITE DRAIN DETAILS

NO SCALE

NOTES:

A. 4"ø Drains at Intermediate Sag Points and at 25'–0" Max Center to Center. Exposed Wall Drains shall be located 3"± above Finished Grade.

B. Geocomposite Drain, Cement Treated Permeable Base, Drainage Pad, and 3"ø Slotted Plastic Pipe continuous behind Wall. Cap ends of pipe. Provide "Tee" connection at each 4"ø drain.

C. Provide 1'–0" x 4" Drainage Pad when Pipe is not supported by Footing.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

ST-12

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 13957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

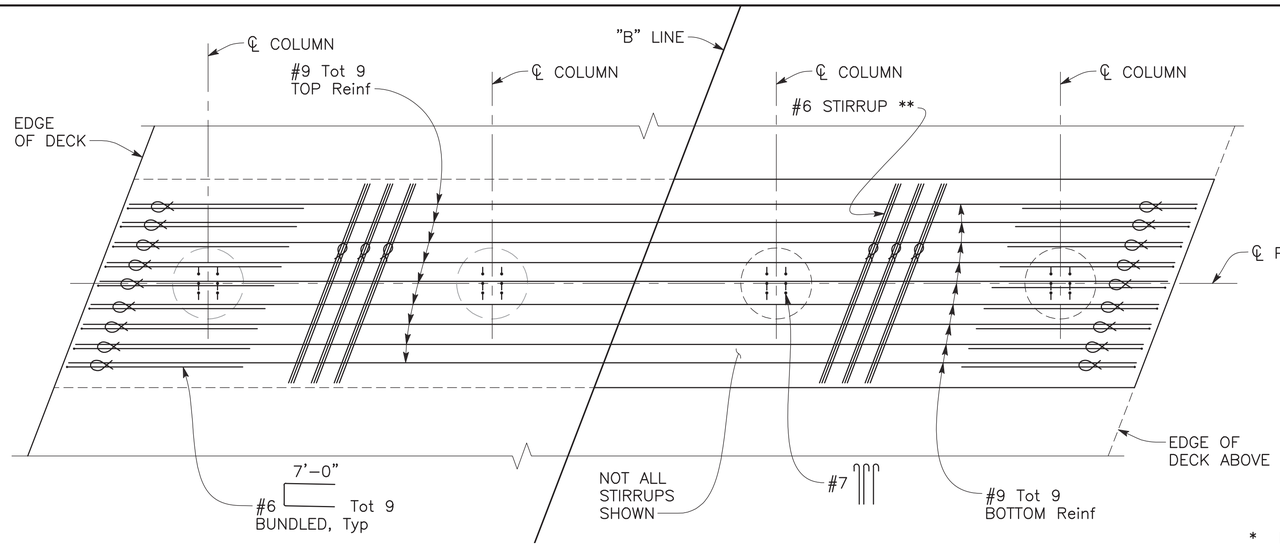
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

ABUTMENT DETAILS NO. 5

DRAWING NO. 11278 — SHEET NO. 48 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\B0R-S-AL.dwg Mar 11, 2023 – 6:52pm

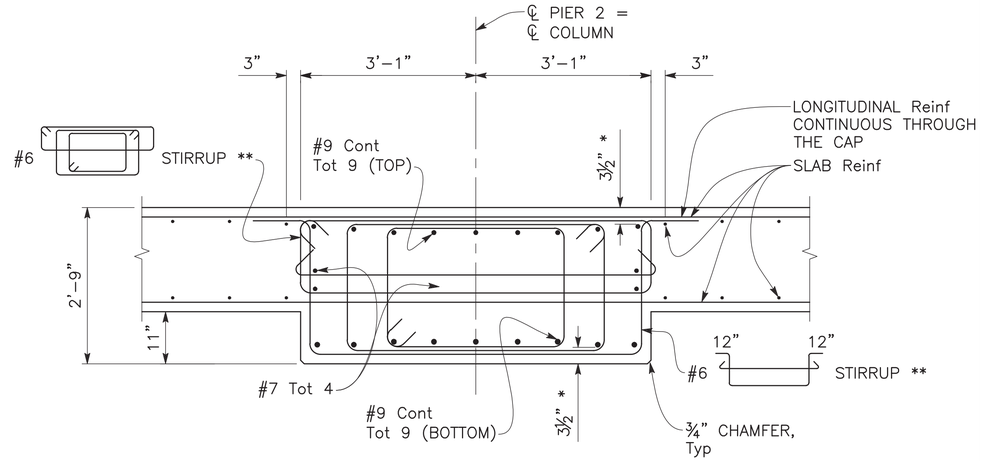


TOP REINFORCEMENT

BOTTOM REINFORCEMENT

PLAN

⅜" = 1'–0"

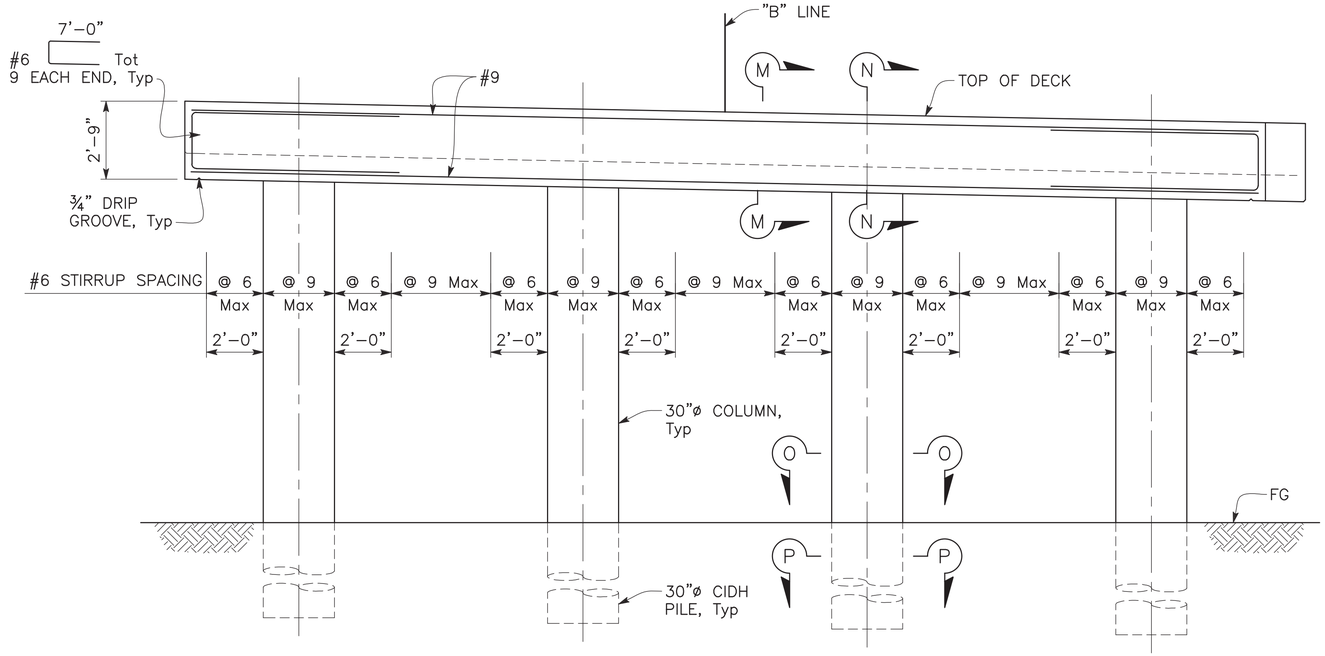


SECTION M-M

¾" = 1'–0"

* Indicates clearance to main cap reinforcement

** Place parallel to ℄ Bridge



ELEVATION

⅜" = 1'–0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

SECTION N-N

¾" = 1'–0"

* Indicates clearance to main cap reinforcement

** Place parallel to ℄ Bridge

LEGEND:

∝ Indicates Bundled Reinforcement

NOTES:

1. For "SECTION O–O" and "SECTION P–P", see "PIER DETAILS" sheet.
2. No lap splices allowed in the top and bottom Pier Cap reinforcement. Place parallel to ℄ Pier.
3. Full size T–Headed bars only.

ST-13

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 19967 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710
ROAD NO. — BRIDGE NO. 42C-0710

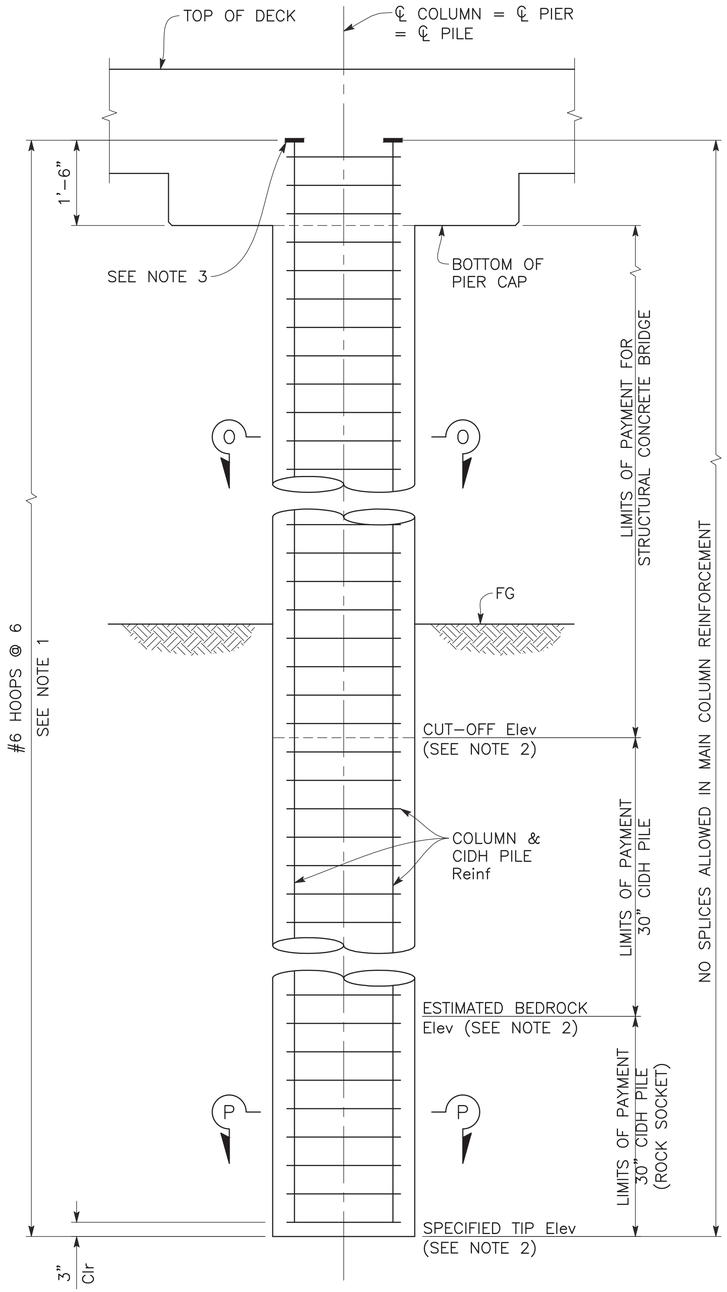
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

PIER 2 LAYOUT

DRAWING NO. 11278 — SHEET NO. 49 — TOTAL 64

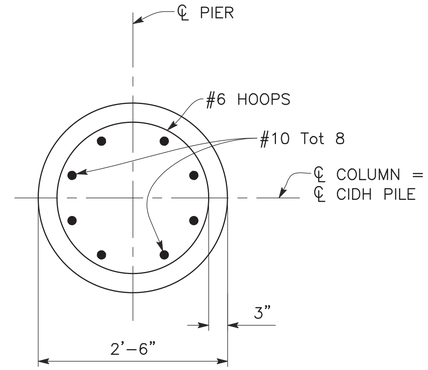
U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BWR–S–PL.dwg Mar 11, 2023 – 6:53pm



COLUMN & CIDH PILE ELEVATION

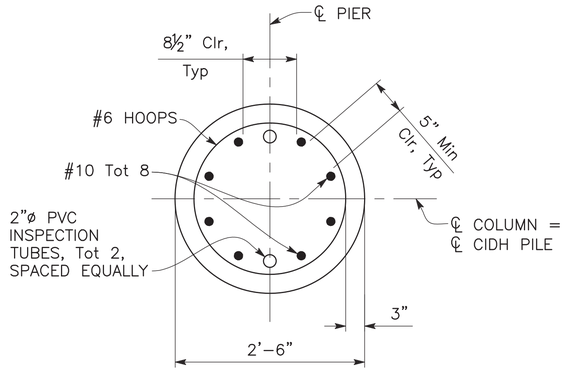
¾" = 1'–0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL



SECTION O-O

1" = 1'–0"



SECTION P-P

1" = 1'–0"

NOTES:

1. All hoops shall be "ultimate" butt weld spliced.
2. For Pile Data Table, see "FOUNDATION PLAN" sheet.
3. Full size Headed reinforcement only.

ST-14

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 33957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

ROAD NO. — BRIDGE NO. 42C-0710

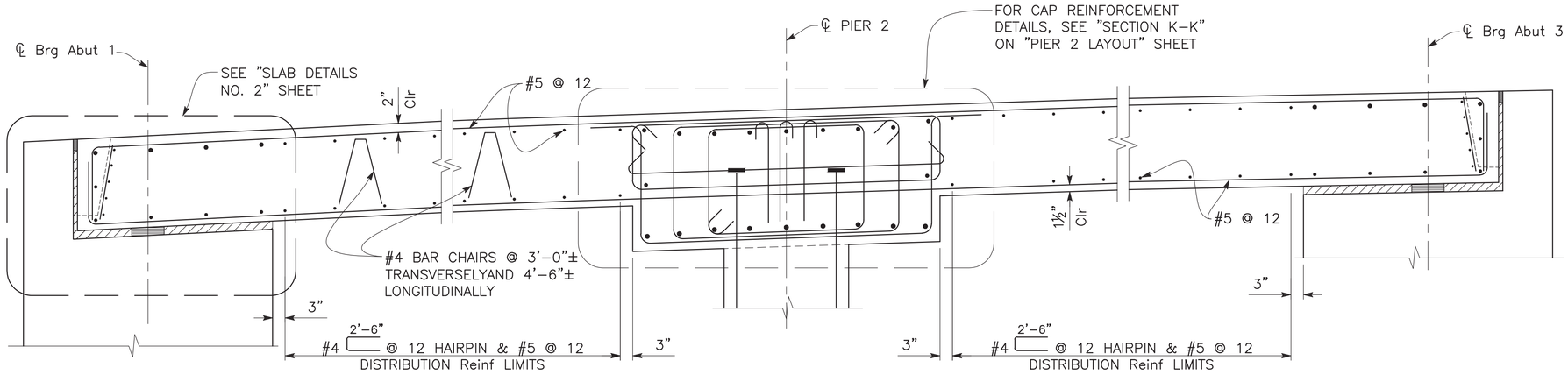
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

PIER DETAILS

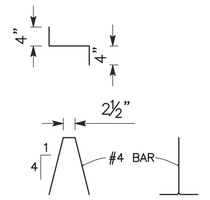
DRAWING NO. 11278 — SHEET NO. 50 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR–S–PL.dwg Mar 11, 2023 – 6:53pm



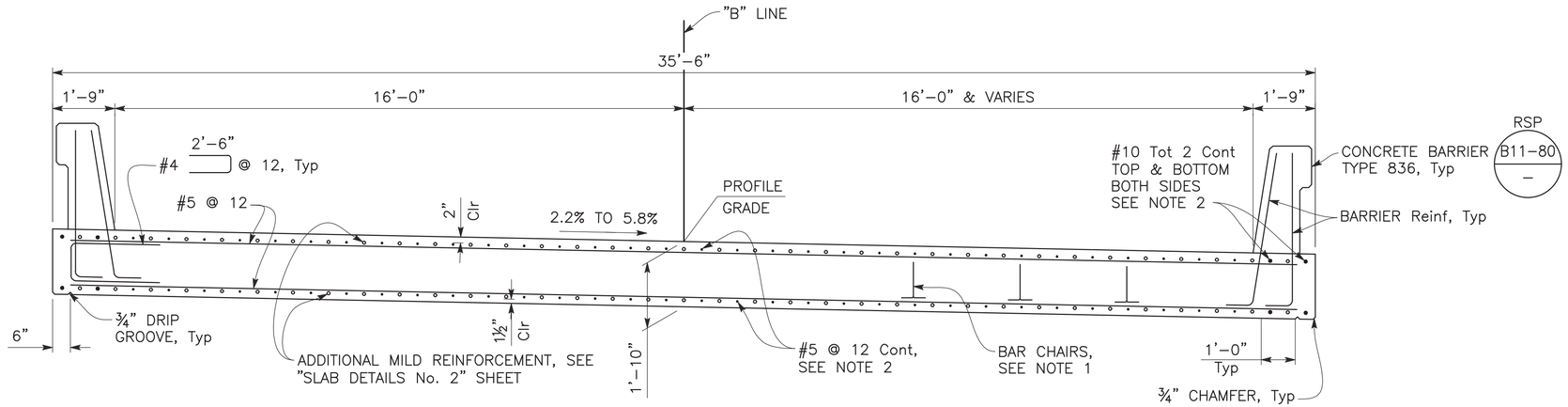
LONGITUDINAL SECTION

½" = 1'–0"



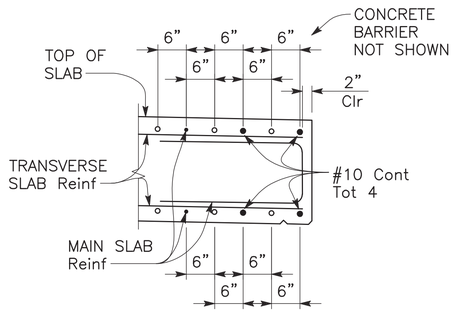
BAR CHAIR DETAIL

¾" = 1'–0"



TYPICAL SECTION

½" = 1'–0"



END OF SLAB DETAIL

¾" = 1'–0"

LEGEND:

° Indicates additional reinforcement, see "SLAB DETAILS NO. 2" sheet.

NOTES:

1. Bar chairs may be used to secure prestress ducts. Bars to be placed between duct anchors parallel to and spaced normal to "B" Line.
2. Continuous reinforcement must be service spliced.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

ST-15

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL T. PUGH — No. 5987 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT	
DRY CREEK ON BURROUGH VALLEY ROAD BRIDGE REPLACEMENT BRIDGE NO. 42C-0710	
ROAD NO.	BRIDGE NO. 42C-0710

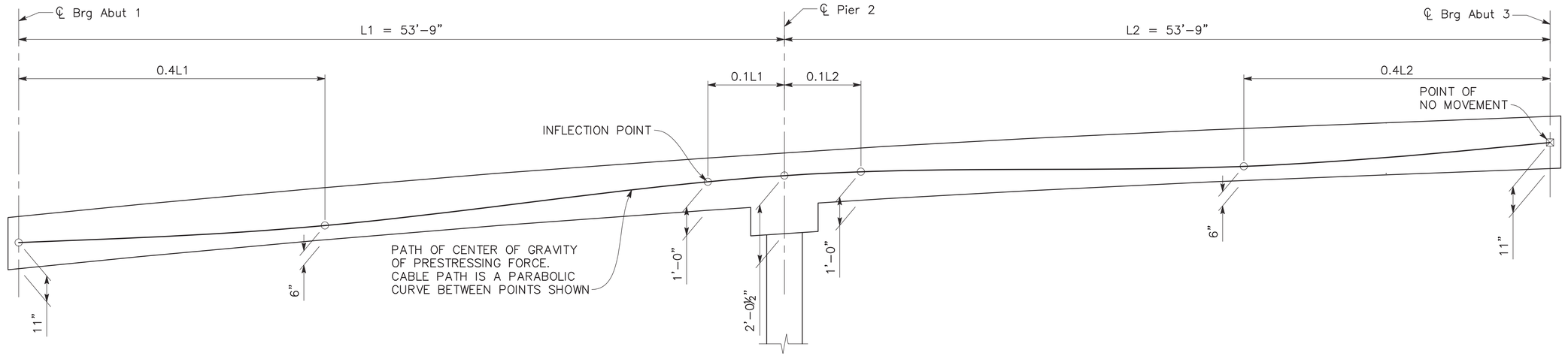
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

TYPICAL SECTION

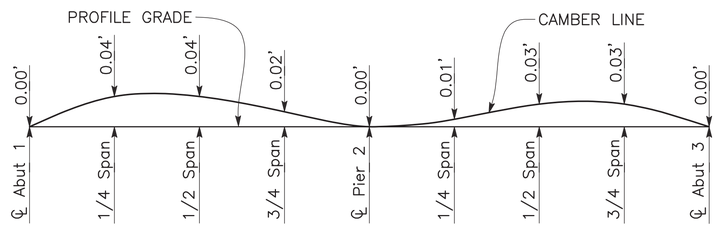
DRAWING NO. 11278 SHEET NO. 51 TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BR–S–TS.dwg Mar 11, 2023 – 6:54pm



PRESTRESS - LONGITUDINAL SECTION

Horiz SCALE: ¼" = 1'–0"
Vert SCALE: ½" = 1'–0"



CAMBER DIAGRAM

NO SCALE

NOTE:
Camber Diagram does not include allowances for falsework settlement

LEGEND:

☒ – Indicates theoretical point of no movement

PRESTRESSING NOTES:

270 ksi Low Relaxation Strand:

P_{jack} = 7510 kips

Anchor set = 3/8"

Friction Curvature Coefficient, μ = 0.15

Friction Wobble Coefficient, k = 0.0002/ft

Prestress Force (P_{jack}) must be uiniformally distributed across the slab.

f'c = 4,000 psi @ 28 days
f'ci = 3,500 psi

Contractor shall submit elongation calculations based on initial stress at ☒ = 0.9483 times jacking stress

One end stressing shall be performed from Abut 1.

For additional notes and details, see B8–5 / –

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

ST-16

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — NO. 19967 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

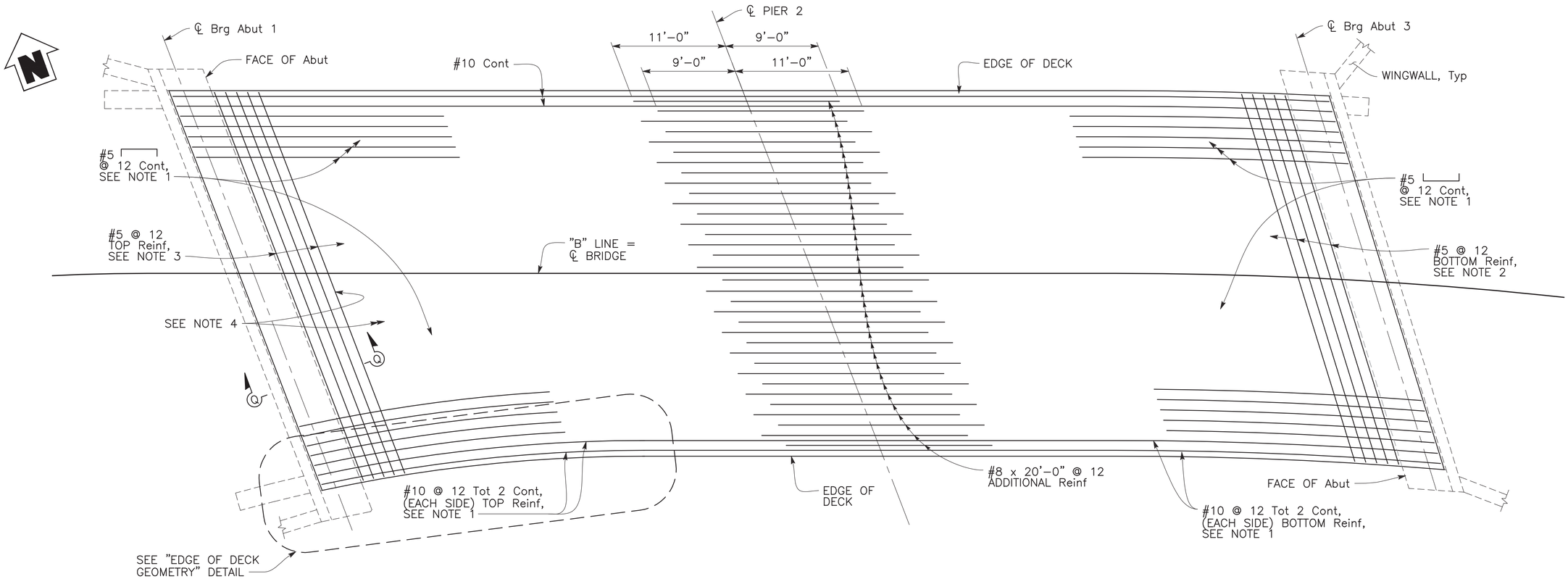
PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710
ROAD NO. — BRIDGE NO. 42C-0710

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SLAB DETAILS NO. 1

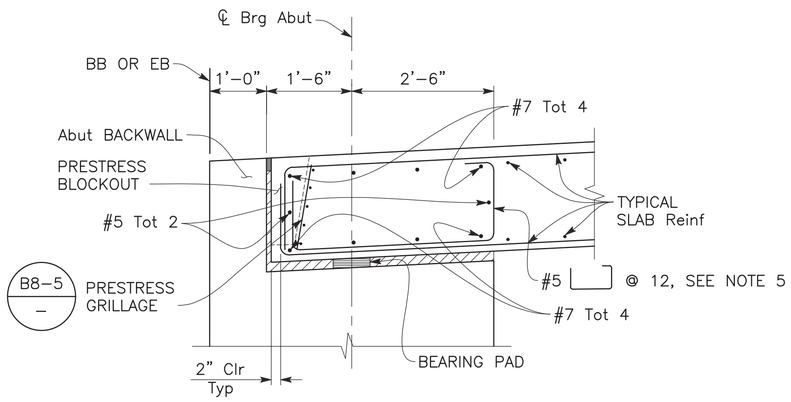
DRAWING NO. 11278 — SHEET NO. 52 — TOTAL 64



TOP REINFORCEMENT

ADDITIONAL TOP & BOTTOM REINFORCEMENT

BOTTOM REINFORCEMENT

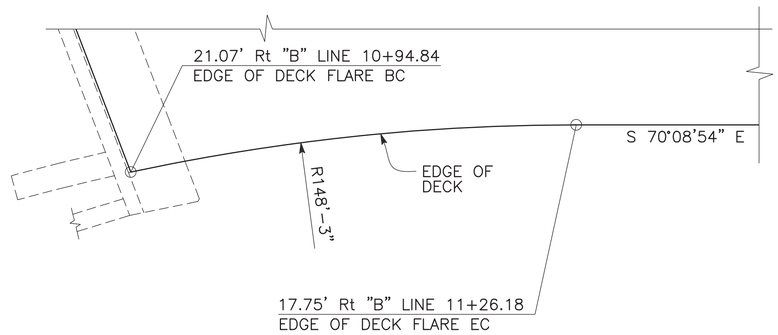


SECTION Q-Q

¾" = 1'–0"

DECK PLAN

NO SCALE



EDGE OF DECK GEOMETRY

NO SCALE

NOTES:

1. Space normal to and place parallel to ℄ Bridge.
2. Space along ℄ Bridge and place parallel to ℄ Brg Abut.
3. Continuous reinforcement must be service spliced.
4. Reinforcement symmetrical about ℄ of Bridge.
5. Stirrups can be adjusted to clear Prestress Anchorage.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

ST-17

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — RAFAEL A. PUGH — No. 33957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0710

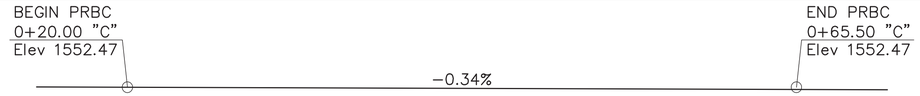
ROAD NO. — BRIDGE NO. 42C-0710

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

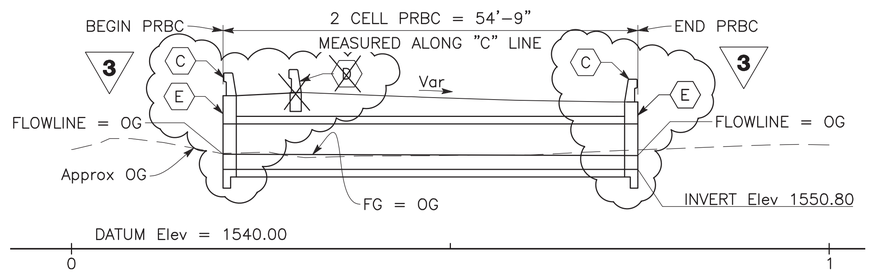
SLAB DETAILS NO. 2

DRAWING NO. 11278 — SHEET NO. 53 — TOTAL 64



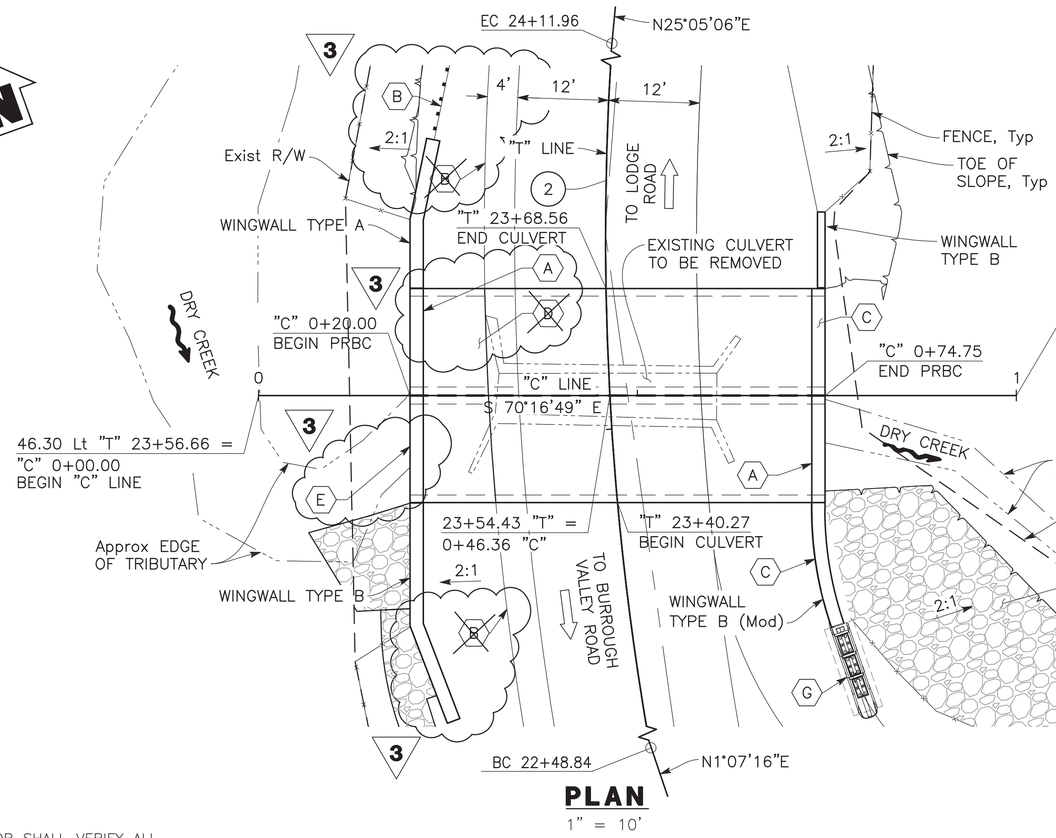
FLOWLINE PROFILE (ALONG "C" LINE)

NO SCALE



LONGITUDINAL SECTION (ALONG "C" LINE)

1" = 10'



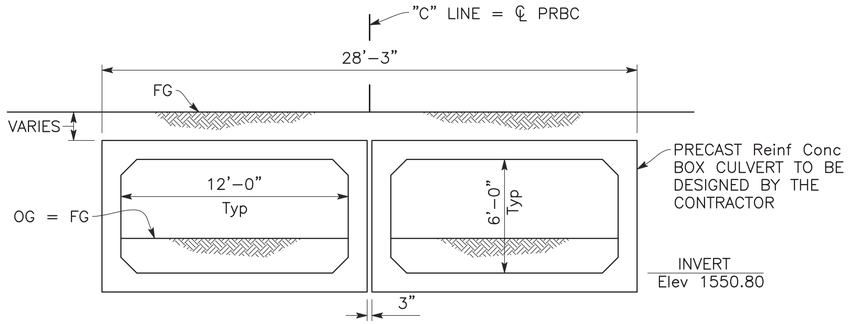
PLAN

1" = 10'

CURVE DATA				
No.	R	Δ	T	L
(2)	390.00'	23°57'51"	82.77'	163.12'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**



TYPICAL CULVERT SECTION

¼" = 1'-0"

LEGEND:

- Indicates Direction of Water Flow
- Indicates Direction of Traffic
- Indicates Existing Culvert
- Indicates New Structure
- PRBC — Precast Reinforced Concrete Box Culvert

KEY NOTES:

- (A) Paint Bridge Number 42C0711 and Year Completed
- (B) Midwest Guardrail System. Location of MGS and barrier layout is moved to be along wingwalls and culvert parapet. See "Road Plans" for new location. 3
- (C) Concrete Barrier Type 836 (Mod) B11-80 / –
- (D) ~~Concrete Barrier Type 836B~~ B11-80 / – RSP D83B / – 3
- (E) Barrier Parapet
- (F) For Rock Slope Protection and Grading, see "ROADWAY PLANS"
- (G) Crash Cushion see "CONSTRUCTION DETAILS" on "ROADWAY PLANS"

1. For PRBC "DESIGN NOTES," "GENERAL NOTES," and "CONSTRUCTION NOTES" see RSP D83B / – 3
2. For "STANDARD PLANS" and "INDEX TO PLANS" see "GENERAL NOTES" sheet.
3. For Roadway Profile along "T" Line, see "ROADWAY PLANS."
4. For "SECTION A–A," see "STAGE CONSTRUCTION NO. 1" and "STAGE CONSTRUCTION NO. 2" sheets.
5. ~~For Culvert Parapet, see "CULVERT DETAILS NO. 3" sheet.~~
6. ~~For Barrier Parapet, see "CULVERT DETAILS NO. 3" sheet.~~ 3
7. Remove Entire Existing Box Culvert Structure Including Top Slab, Walls, Invert Slab, Wingwalls, Footings, and Wood Railing. The Existing Wood Railing is Treated Wood Waste.

ST-18

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 73957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0711

ROAD NO. — BRIDGE NO. 42C-0711

COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CULVERT GENERAL PLAN

DRAWING NO. 11278 — SHEET NO. 54 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR-S-CGP.dwg Mar 11, 2023 - 6:56pm

INDEX TO PLANS

LOAD AND RESISTANCE FACTOR DESIGN

SPECIFICATION: AASTHO LRFD Bridge Design Specifications, Sixth Edition, and the California Amendments, preface dated January 2014

PRCB DESIGN PARAMETERS
Span, S = 12'
Height, H = 6'
Maximum Earth Cover = 10'

LIVE LOADING: HL 93, design tandem and design lane loading.

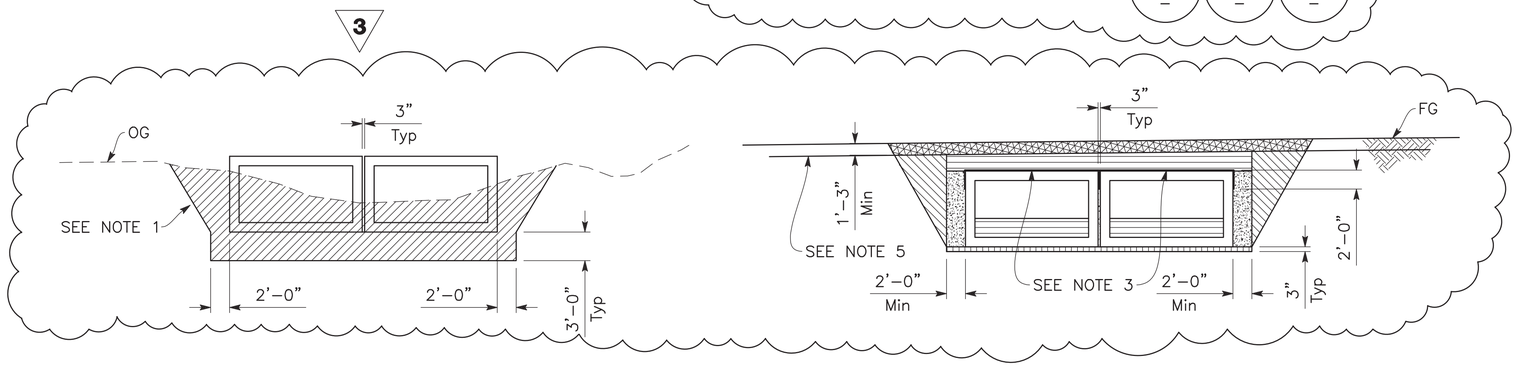
ALLOWABLE BEARING CAPACITY: See "CULVERT FOUNDATION PLAN" sheet.

STANDARD PLANS DATED 2018:

A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LINES AND SYMBOLS (SHEET 5 OF 5)
A62G	EXCAVATION AND BACKFILL PRECAST REINFORCED CONCRETE BOX CULVERT
RSP D83A	PRECAST REINFORCED CONCRETE BOX CULVERT
RSP D83B	PRECAST REINFORCED CONCRETE BOX CULVERT MISCELLANEOUS DETAILS
RSP D84	BOX CULVERT WINGWALLS TYPE A, B AND C
D88	CONSTRUCTION LOADS ON CULVERTS
B0–1	BRIDGE DETAILS
RSP B0–3	BRIDGE DETAILS
B3–5	RETAINING WALL DETAILS No. 1
B11–47	CABLE RAILING
RSP B11–79	CONCRETE BARRIER TYPE 836 DETAILS NO. 1
RSP B11–80	CONCRETE BARRIER TYPE 836 DETAILS NO. 2

STANDARD PLAN SHEET No.
DETAIL No.

For design notes and details not shown, see RSP D83A – , RSP D83B – , RSP D84 – 3



EXCAVATION BACKFILL

STRUCTURE EXCAVATION AND BACKFILL

NO SCALE

LEGEND:

- Structure Excavation (Culvert)
- Structure Backfill (Culvert) 95% relative compaction
- Roadway Embankment
- Slurry Cement Backfill
- Class 2 Aggregate Base (Culvert)
- Roadway Pavement Structure

NOTES:

1. Slope or shore excavation sides as necessary.
2. Dimensions shown are minimum.
3. Approved External Sealing Band required. See Standard Plan D83A.
4. Construction of Roadway Pavement Section shall not disturb the external sealing band.

QUANTITIES

REMOVE REINFORCED CONCRETE BOX CULVERT	LS	1	
STRUCTURE EXCAVATION (CULVERT)	CY	639	
STRUCTURE EXCAVATION (RETAINING WALL)	CY	~~127~~ 160	3
CLASS 2 AGGREGATE BASE (BASE CULVERT)	CY	17	
STRUCTURE BACKFILL (CULVERT)	CY	202	
STRUCTURE BACKFILL (SLURRY CEMENT)	CY	88	
STRUCTURE BACKFILL (RETAINING WALL)	CY	~~113~~ 162	3
FURNISH AND ERECT PRECAST BOX CULVERT	LF	110	
STRUCTURAL CONCRETE, BOX CULVERT	CY	~~17~~ 18	3
STRUCTURE CONCRETE, RETAINING WALL	CY	~~36~~ 56	3
BAR REINFORCING STEEL (BOX CULVERT)	LB	~~4,200~~ 4,061	3
BAR REINFORCING STEEL (RETAINING WALL)	LB	~~3,600~~ 5,103	3
CABLE RAILING	LF	~~64~~ 10	3
CONCRETE BARRIER TYPE 836 (MOD)	LF	~~45~~ 123	3
~~CONCRETE BARRIER TYPE 836B~~	LF	~~29~~	3

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**

ST-19

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. PUGH No. 49013 Exp. 03/31/23 STRUCTURAL STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0711
ROAD NO. BRIDGE NO. 42C-0711

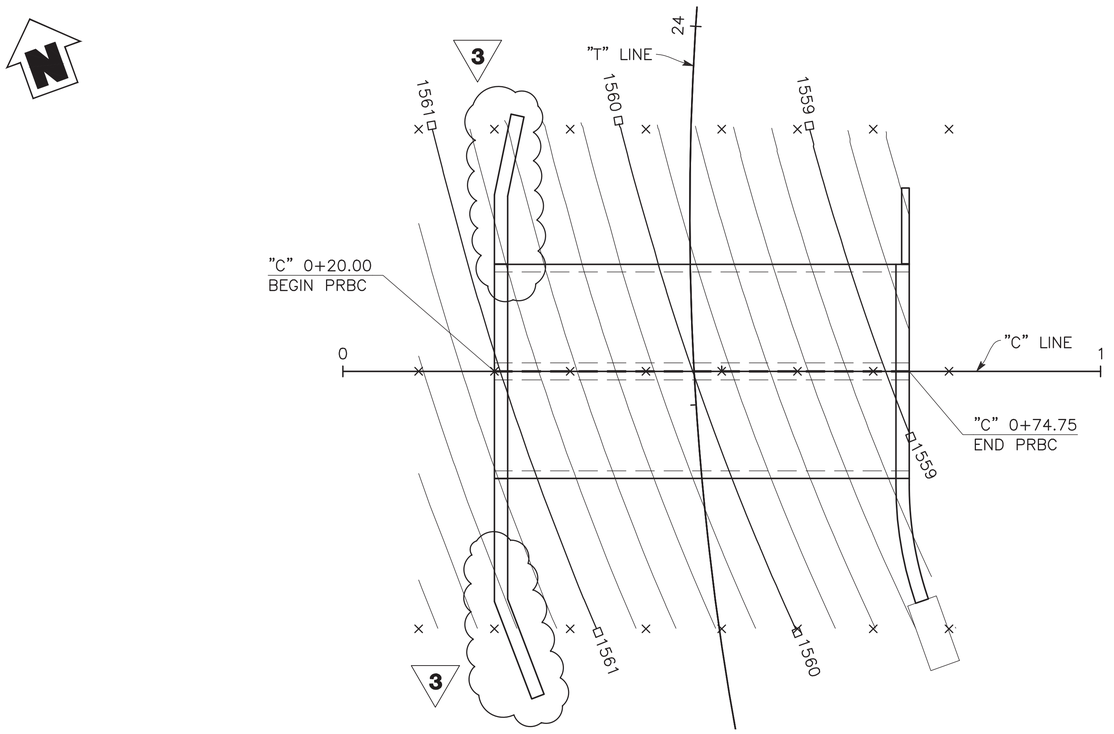
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CULVERT GENERAL NOTES

DRAWING NO. 11278 SHEET NO. 55 TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BWR–S–CGN.dwg Mar 11, 2023 – 6:57pm



DECK CONTOURS

1" = 10'

NOTES:

1. Contours do not include Camber or Falsework Settlement.
2. 0.2' Contour Interval.
3. × = Indicates 10' increments along "C" Line.
4. □ = Indicates whole foot contours.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**

ST-20

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 19957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0711

ROAD NO. — BRIDGE NO. 42C-0711

THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CULVERT DECK CONTOURS

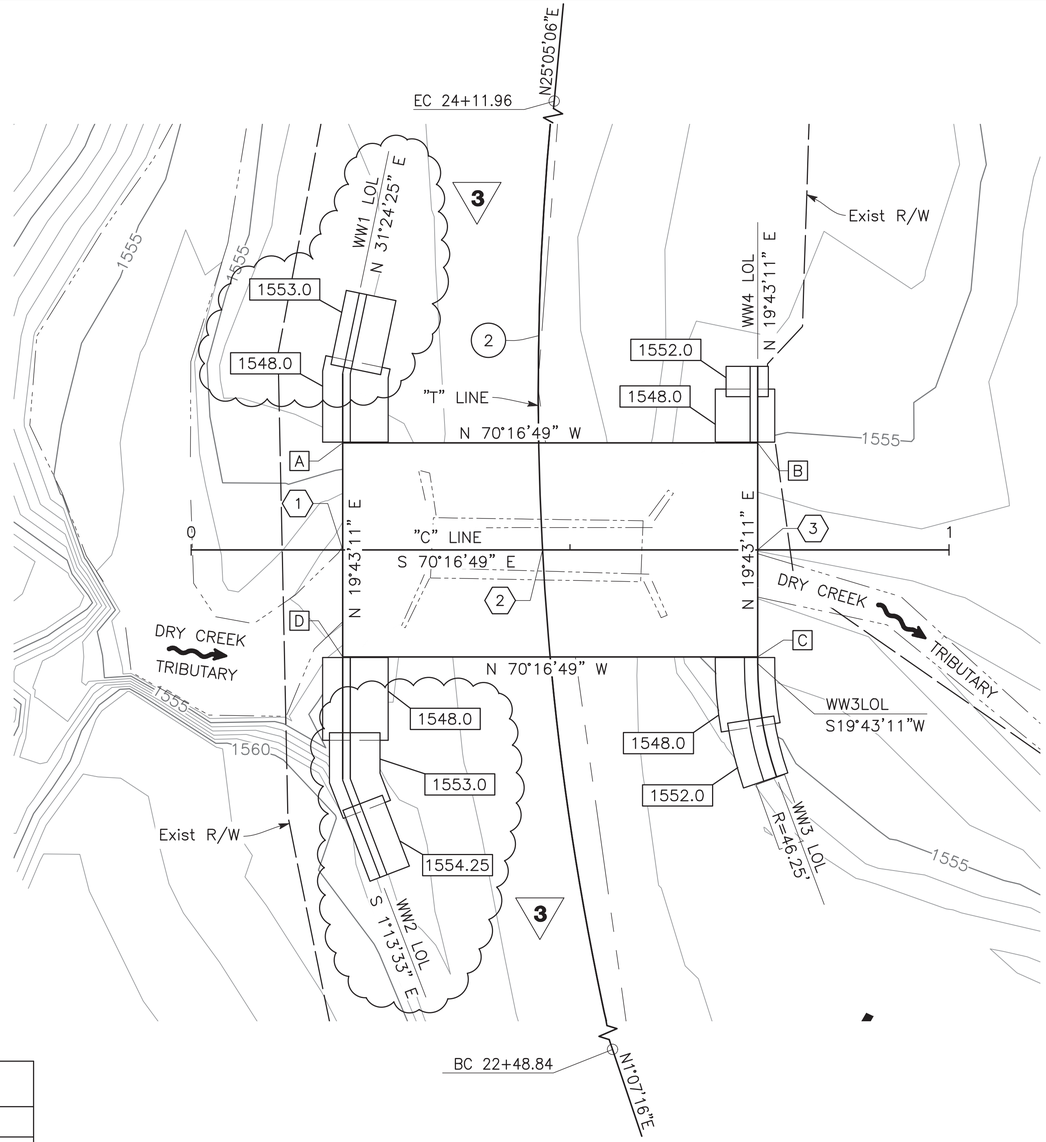
DRAWING NO. 11278 — SHEET NO. 56 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR-S-CDC.dwg Mar 11, 2023 – 6:58pm

BENCHMARK:

See "Roadway Plans"

INVERT SLAB LAYOUT TABLE			
Location	Station	Offset	Bottom of Invert Slab Elevation
A	23+68.99	25.85 Lt	1549.80
B	23+68.01	28.89 Rt	1549.80
C	23+37.62	27.25 Rt	1549.80
D	23+42.57	27.27 Lt	1549.80



PLAN
1" = 10'

	Northing	Easting
1 26.32' Lt "T" Sta 23+55.76 = "C" Sta 0+20.00	2244882.72	6440797.64
2 "T" Sta 23+54.43 = "C" Sta 0+46.36	2244873.82	6440822.45
3 28.35' Rt "T" Sta 23+52.78 = "C" Sta 0+74.75	2244864.24	6440849.18

CURVE DATA				
No.	R	Δ	T	L
2	390.00'	23°57'51"	82.77'	163.12'

HYDROLOGIC SUMMARY TABLE		
Drainage Area = 13.5 Square Miles		
Frequency (Years)	Design Flood	Base Flood
	10	100
Discharge (Cubic Feet per Second)	244	498
Water Surface Elevation, Ft Immediately Upstream of Bridge	1555.50	1558.20

LEGEND:

- Indicates Bottom of Footing Elevation
- Indicates Existing Culvert to be Removed
- Indicates New Structure Footings
- Indicates Direction of Water Flow

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**

ST-21

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 46019 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0711

ROAD NO. — BRIDGE NO. 42C-0711

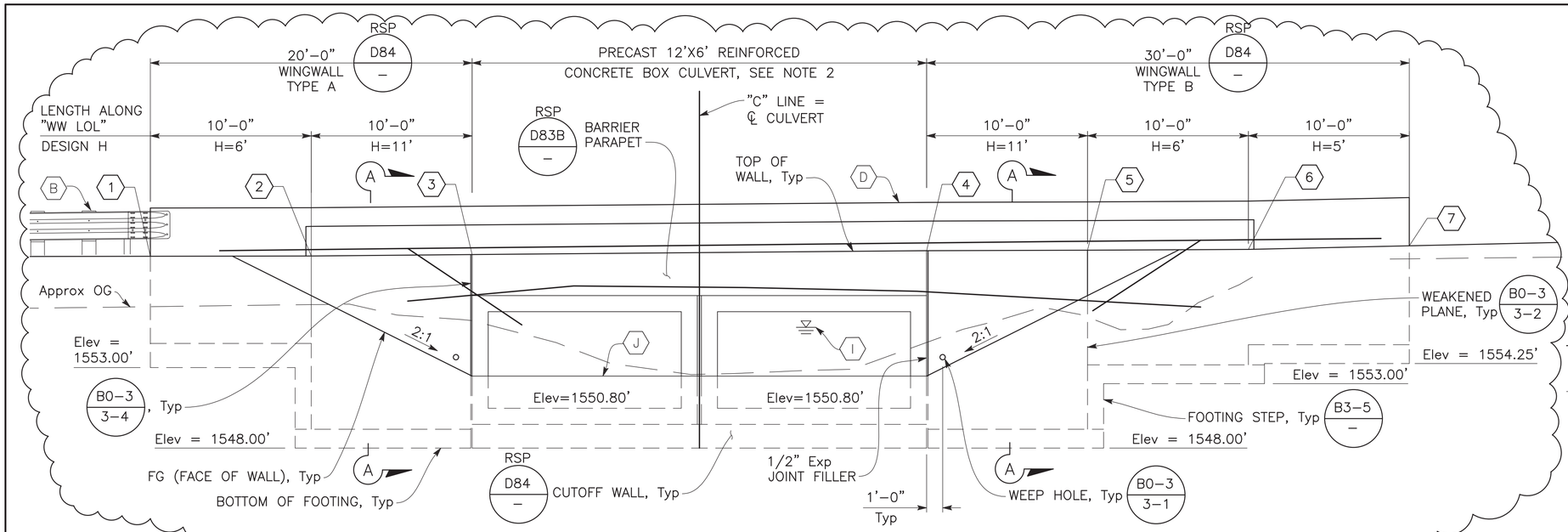
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CULVERT FOUNDATION PLAN

DRAWING NO. 11278 — SHEET NO. 57 — TOTAL 64

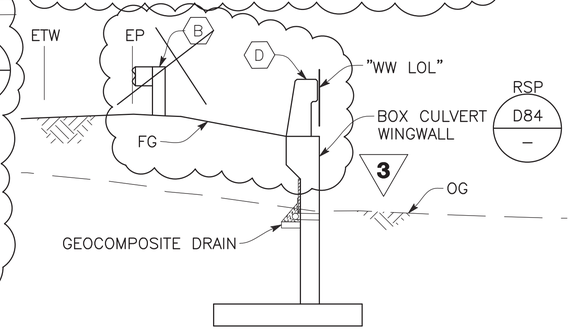
U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR-S-CFP.dwg Mar 11, 2023 – 6:59pm



WINGWALL NO. 1 AND NO. 2 - ELEVATION

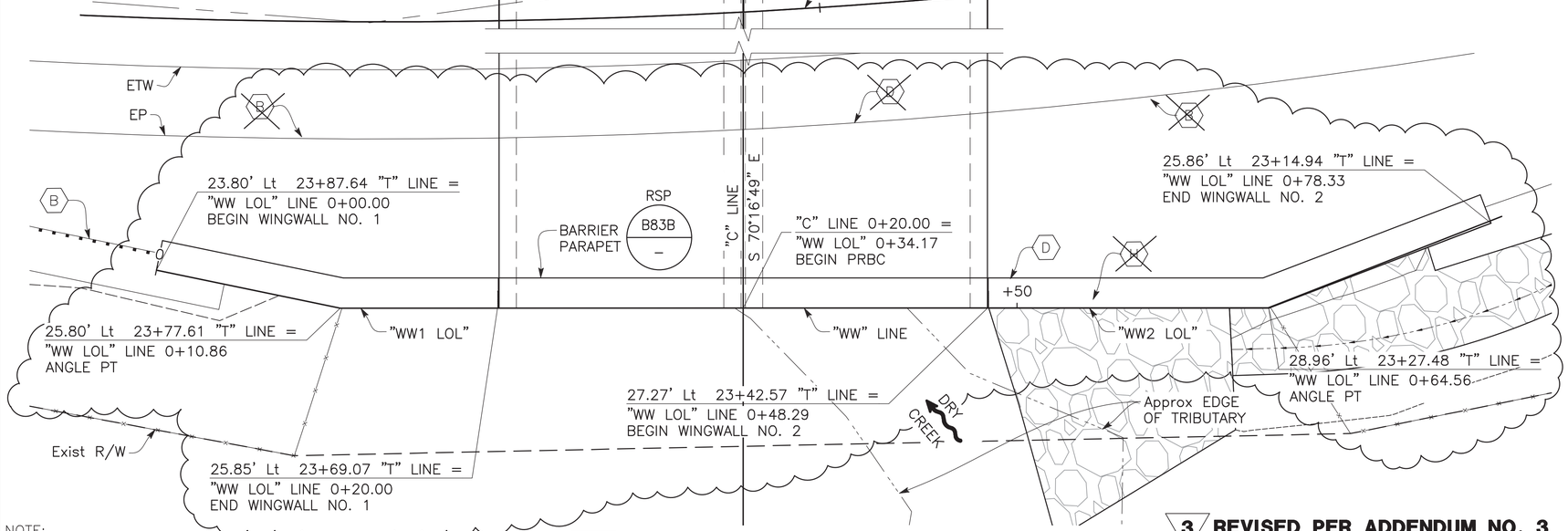
1/4" = 1'–0"

TOP OF WALL ELEVATIONS	
1	1559.91
2	1559.93
3	1560.02
4	1560.26
5	1560.29
6	1560.34
7	1560.56



SECTION A-A

1/4" = 1'–0"



WEST WALL PLAN

1/4" = 1'–0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

LEGEND:

Indicates Direction of Water Flow

KEY NOTES:

B — Midwest Guardrail System. Location of MGS and barrier layout is moved to be along wingwalls and culvert parapet. See "Road Plans" for new location.

D — Concrete Barrier Type 836 (MOD) B11–80 –

H — ~~Cable Railing~~ B11–47 –

I — 10 Year WS Elevation = 1555.5

J — Flowline conforms to original box culvert flowline. For grading details within PRCB, see "ROADWAY PLANS."

1. Barrier Parapet RSP B83B –

2. Out–to–out width of culvert to be determined by the Manufacturer. Begin Culvert Wingwall at exterior face of the PRCB Culvert (designed by others).

3. For "WEEP HOLE AND GEOCOMPOSITE DRAIN DETAILS," see "CULVERT DETAILS NO. 3" sheet.

3 REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023

ST-22

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH — SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 33957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT: DRY CREEK ON BURROUGH VALLEY ROAD BRIDGE REPLACEMENT BRIDGE NO. 42C-0711

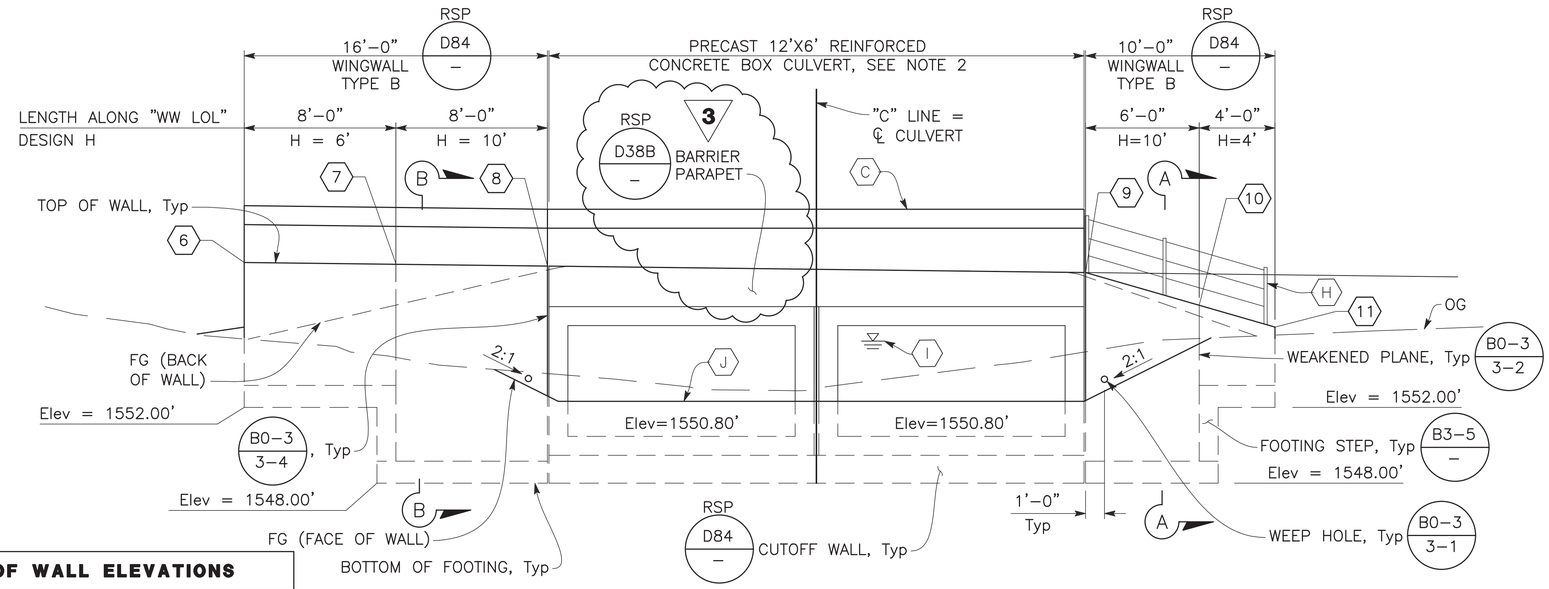
ROAD NO. — BRIDGE NO. 42C-0711

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CULVERT DETAILS NO. 1

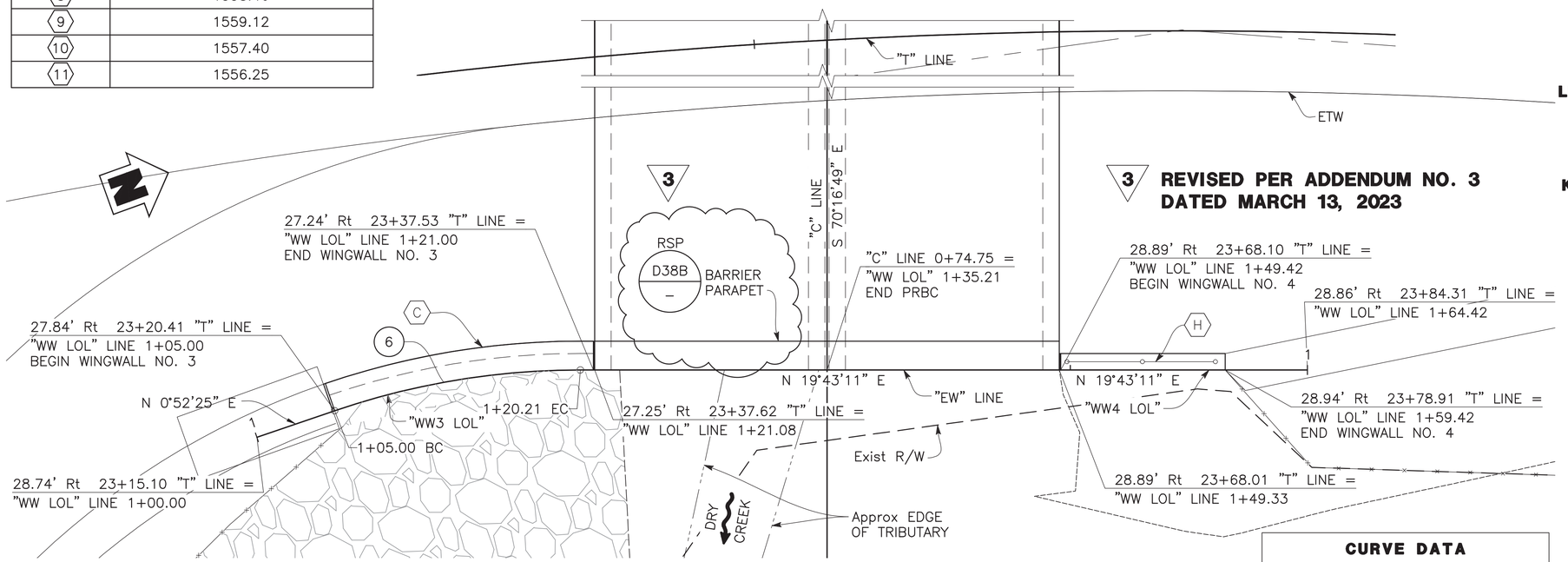
DRAWING NO. 11278 — SHEET NO. 58 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR–S–CDT1–2.dwg Mar 11, 2023 – 7:01pm



WINGWALL NO. 3 AND NO. 4 - DEVELOPED ELEVATION

1/4" = 1'–0"

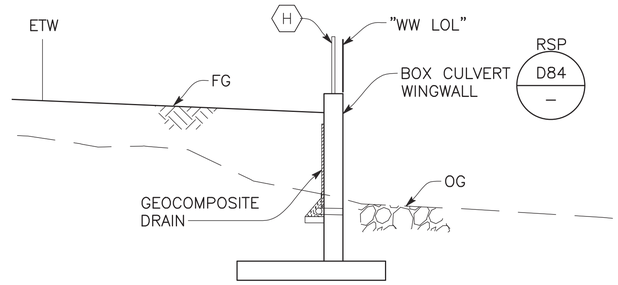


EAST WALL PLAN

1/4" = 1'–0"

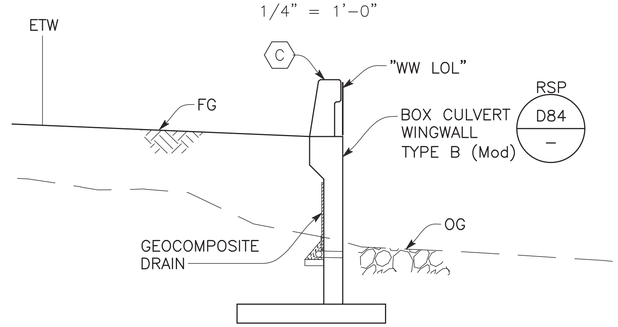
TOP OF WALL ELEVATIONS	
6	1559.65
7	1559.56
8	1558.46
9	1559.12
10	1557.40
11	1556.25

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL



SECTION A-A

1/4" = 1'–0"



SECTION B-B

1/4" = 1'–0"

LEGEND:

Indicates Direction of Water Flow

KEY NOTES:

C — Concrete Barrier Type 836 (Mod) B11–80 / –

H — Cable Railing B11–47 / –

I — 10 Year WS Elevation = 1555.5

J — Flowline conforms to original box culvert flowline. For grading details within PRCB, see "ROADWAY PLANS."

1. For rock slope protection and grading details not shown, see "ROADWAY PLANS."

2. Barrier Parapet RSP D83B – 3

3. Out–to–out width of culvert to be determined by the Manufacturer. Begin Culvert Wingwall at exterior face of the PRCB Culvert (designed by others).

4. For "WEEP HOLE AND GEOCOMPOSITE DRAIN DETAILS," see "CULVERT DETAILS NO. 3" sheet.

3 REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023

CURVE DATA				
No.	R	Δ	T	L
6	46.25'	18°50'48"	7.68'	15.21'

ST-23

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 13957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0711

ROAD NO. — BRIDGE NO. 42C-0711

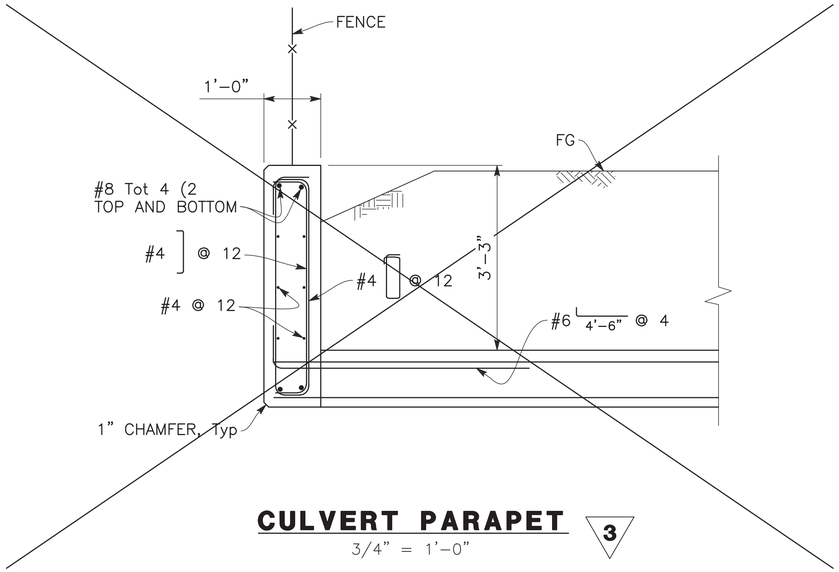
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CULVERT DETAILS NO. 2

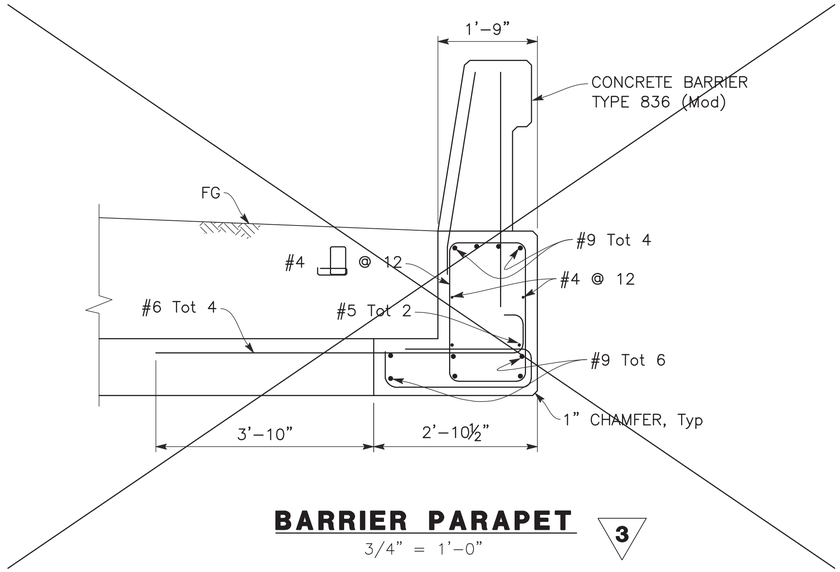
DRAWING NO. 11278 — SHEET NO. 59 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR–S–CDT1–2.dwg Mar 11, 2023 – 7:01pm



CULVERT PARAPET 3

3/4" = 1'–0"



BARRIER PARAPET 3

3/4" = 1'–0"

3 REMOVED PER ADDENDUM NO. 3 DATED MARCH 13, 2023

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

ST-24

	DATE	RECORD DRAWING		SCALE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: ED CISNEROS	11/03/2022			
CHECKED: BRETT SCHOPPE	11/03/2022			
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				

MIKE PUGH
SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL T. PUGH — No. 19967 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0711
ROAD NO. — BRIDGE NO. 42C-0711

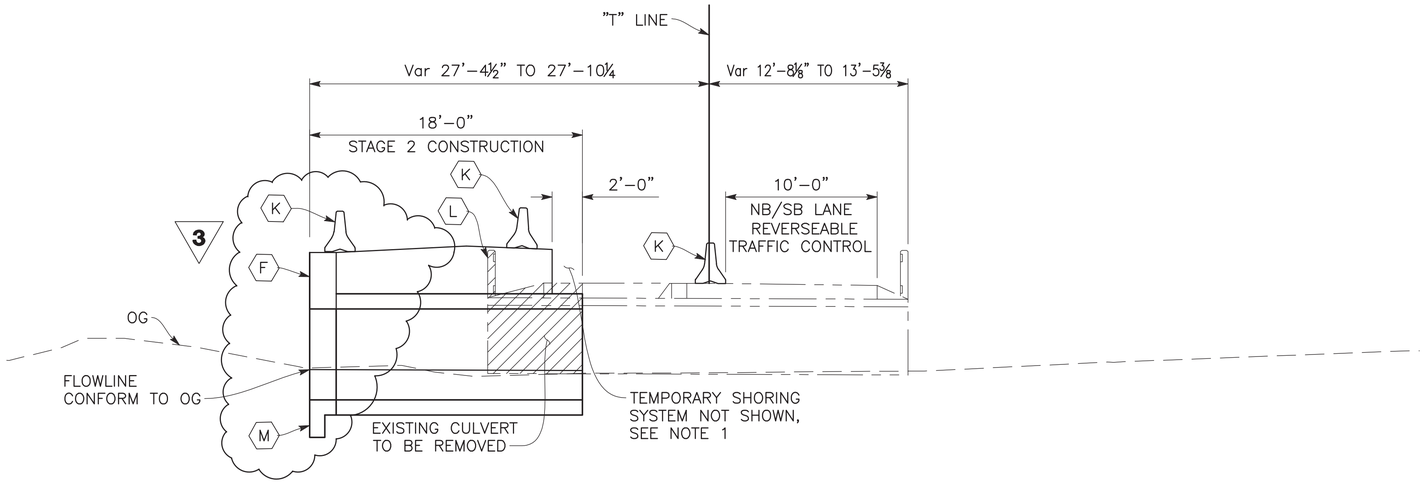
THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CULVERT DETAILS NO. 3

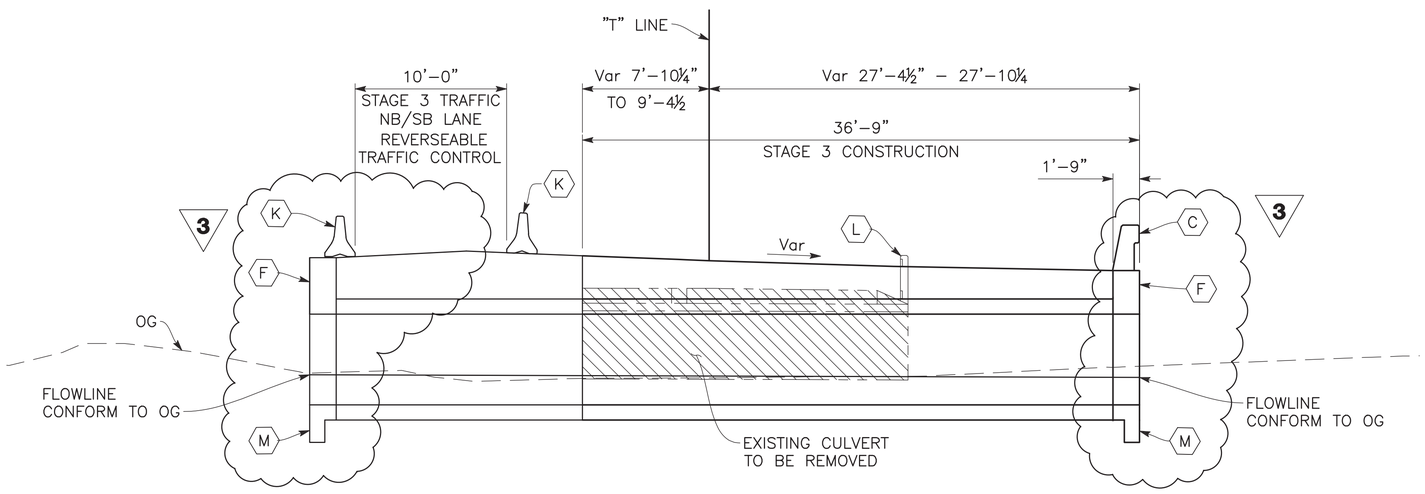
DRAWING NO. 11278 SHEET NO. 60 TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BWR-S-CDT1-2.dwg Mar 11, 2023 – 7:01pm



PROJECT STAGE 2

1" = 5'



PROJECT STAGE 3

1" = 5'

KEY NOTES:

(C) Concrete Barrier Type 836 (Mod), B11–80 / –

~~(E) Culvert Parapet, see "CULVERT DETAILS NO. 3" sheet.~~ 3

(F) Barrier Parapet, RSP D83B / –

(K) Temporary K–Rail, see "Roadway Plans".

(L) Existing Timber Railing to be removed.

(M) Cutoff Wall, RSP D84 / – 3

1. Contractor is responsible for design and installation of all temporary shoring systems required.
2. For Stage Construction plans, see "ROADWAY PLANS."

LEGEND:

- Indicates Stage 2 Culvert Removal
- Indicates Stage 3 Culvert Removal
- Indicates Existing Structure
- NB Northbound
- SB Southbound

3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH — SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — BRETT A. SCHOPPE — No. 19957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0711

ROAD NO. — BRIDGE NO. 42C-0711

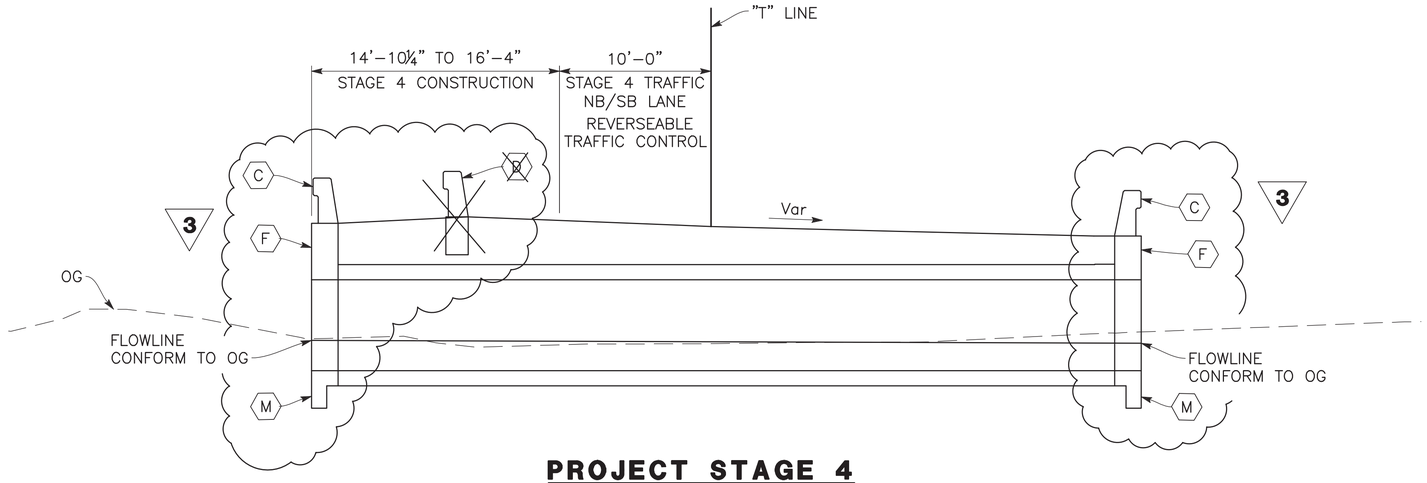
THE COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE CONSTRUCTION NO. 1

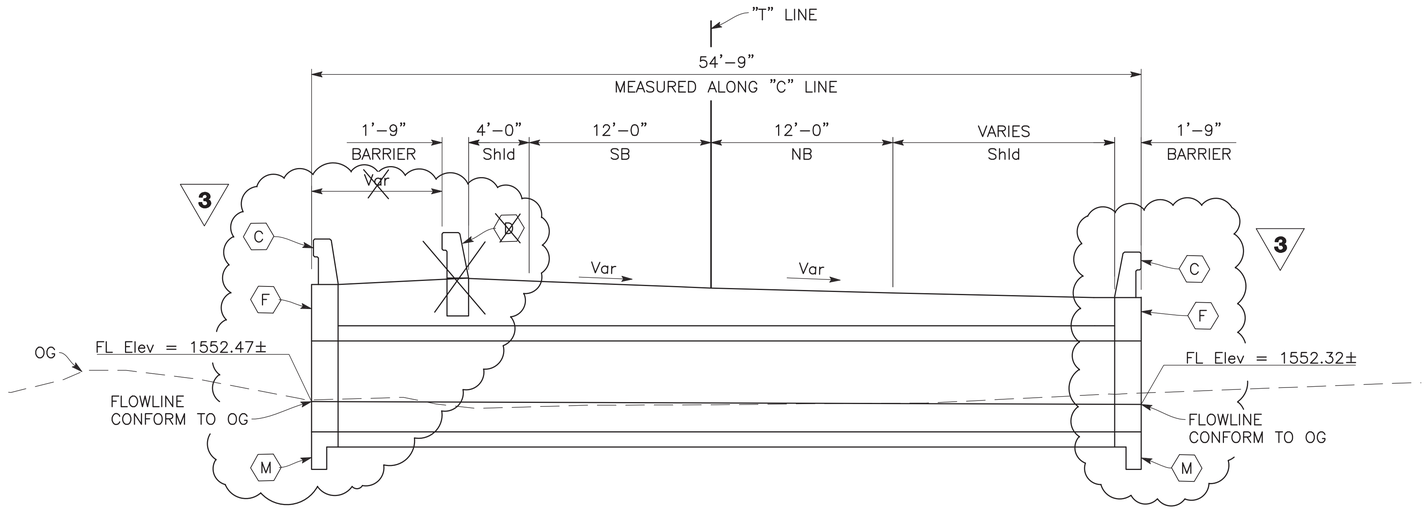
DRAWING NO. 11278 — SHEET NO. 61 — TOTAL 64

U:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR–S–SC.dwg Mar 11, 2023 – 7:02pm



PROJECT STAGE 4

1" = 5'



FINAL CONDITION

1" = 5'

KEY NOTES:

- (C) Concrete Barrier Type 836 (Mod), B11–80 / –
- ~~(D) Concrete Barrier Type 836B, B11–80 / –~~
- ~~(E) Culvert Parapet, see "CULVERT DETAILS NO. 3" sheet.~~
- (F) Barrier Parapet, D83B / –
- (M) Cutoff Wall, RSP D84 / –

1. Contractor is responsible for design and installation of all temporary shoring systems required.
2. For Stage Construction plans, see "ROADWAY PLANS."

LEGEND:

NB	Northbound
SB	Southbound

3 **REVISED PER ADDENDUM NO. 3 DATED MARCH 13, 2023**

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING AND FABRICATING ANY MATERIAL

	DATE	RECORD DRAWING	DATE
DESIGNED: MIKE PUGH	11/03/2022	RESIDENT ENGINEER	DATE
DRAWN: ED CISNEROS	11/03/2022		
CHECKED: BRETT SCHOPPE	11/03/2022		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: AS SHOWN

MIKE PUGH — SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. PUGH — No. 13957 — Exp. 03/31/23 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0711

ROAD NO. — BRIDGE NO. 42C-0711

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

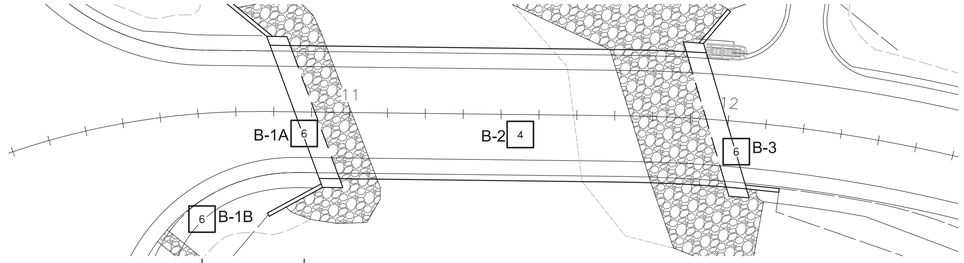
STAGE CONSTRUCTION NO. 2

DRAWING NO. 11278 — SHEET NO. 62 — TOTAL 64

I:\15027 – Dry Creek (Burrough Valley Road) Bridge Replacement – Fresno Co\400 Project Design Files\430 Bridges & Structures\Plans\BVR–S–SC.dwg Mar 11, 2023 – 7:03pm

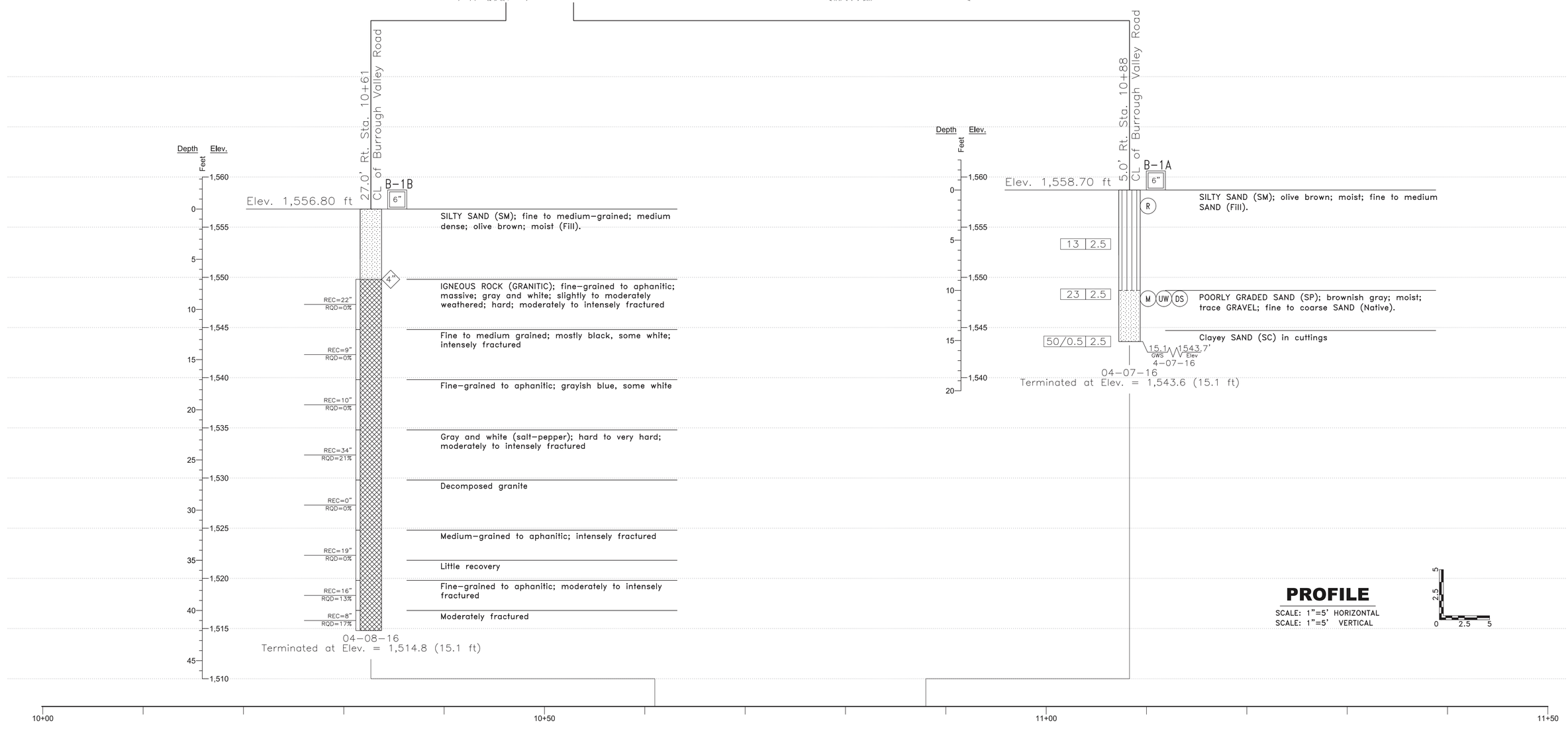
NOTES:

1. 1.5–INCH DIAMETER SAMPLES WERE TAKEN USING A STANDARD PENETRATION TEST (SPT) SPLIT BARREL SAMPLER WITH AN INSIDE DIAMETER (ID) OF 1.5 INCHES AND AN OUTSIDE DIAMETER (OD) OF 2.0 INCHES.
2. 2.5–INCH DIAMETER RING SAMPLES WERE TAKEN USING A CALIFORNIA SPLIT BARREL SAMPLER WITH AN ID OF 2.5 INCHES AND AN OD OF 3.0 INCHES.
3. ALL DRIVE SAMPLES WERE DRIVEN WITH 140 LB HAMMER WITH A FALLING HEIGHT OF 30 INCHES.
4. ELEVATIONS BASED ON TOPOGRAPHIC MAP PROVIDED BY DRAKE HAGLAN & ASSOCIATES.



PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=5' HORIZONTAL
SCALE: 1"=5' VERTICAL

ST-27

	DATE	RECORD DRAWING		SCALE
DESIGNED:		RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: D. FAHRNEY				
CHECKED: N. DAHLEN				

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

DAVID L. PEARSON
SUPERVISING ENGINEER

12/31/17
DATE

REGISTERED PROFESSIONAL ENGINEER
David L. Pearson
No. 674
Exp. 12/31/17
STATE OF CALIFORNIA

PROJECT
DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0134

ROAD NO. BRIDGE NO. 42C-0134

THE COUNTY OF FRESNO 1856

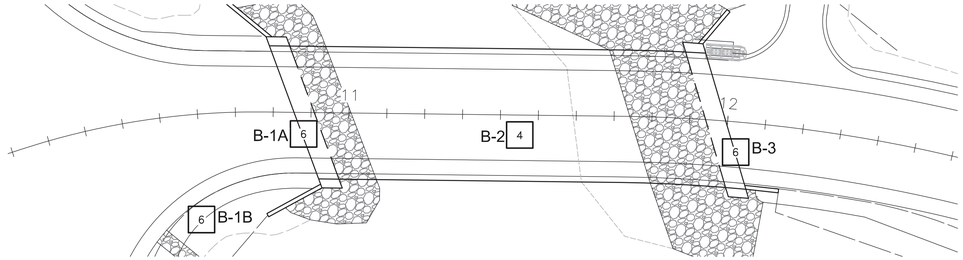
DEPARTMENT OF PUBLIC WORKS AND PLANNING

LOG OF TEST BORINGS
1 OF 2

DRAWING NO. 11272 SHEET NO. 63 TOTAL 64

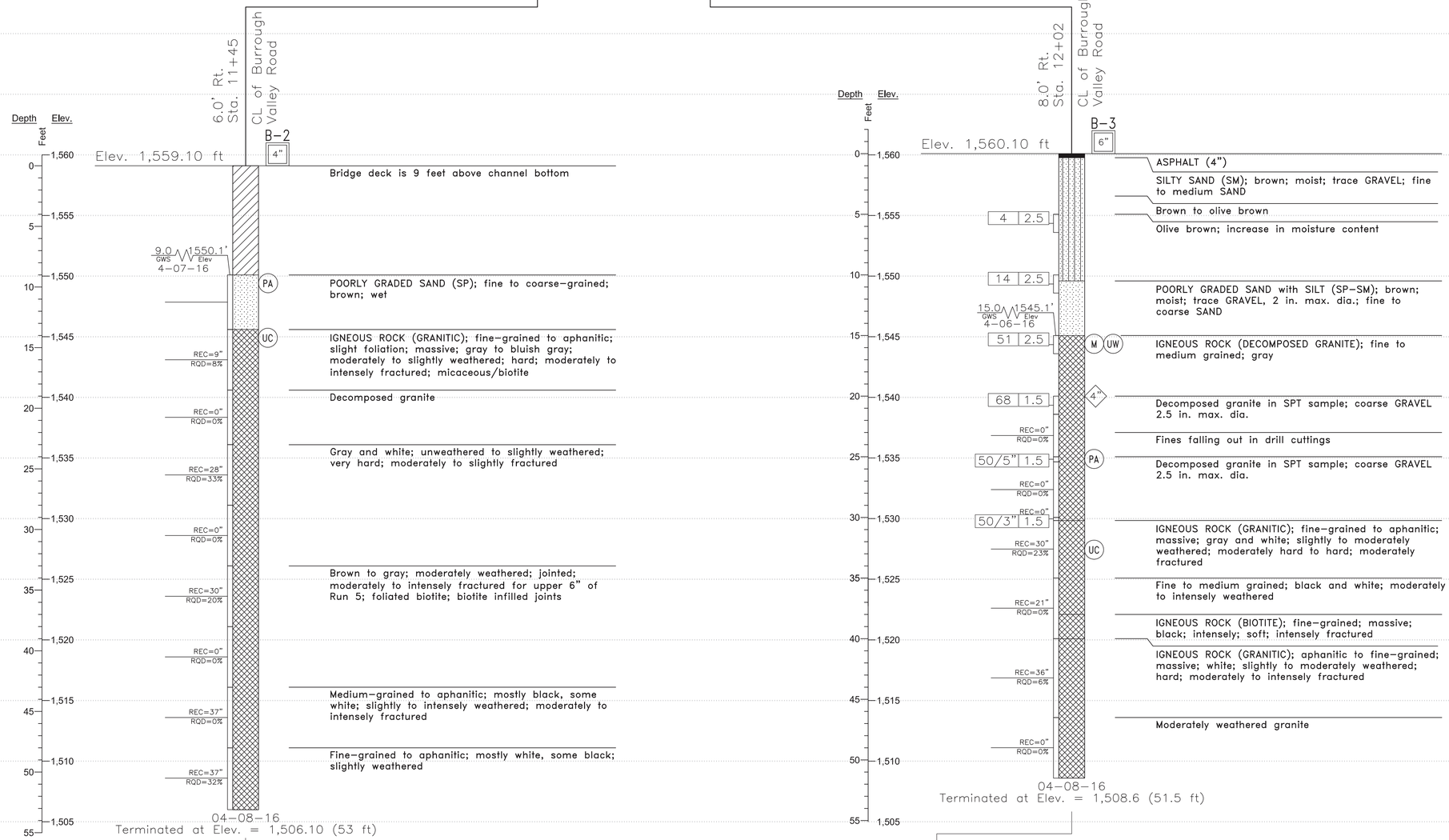
NOTES:

1. 1.5–INCH DIAMETER SAMPLES WERE TAKEN USING A STANDARD PENETRATION TEST (SPT) SPLIT BARREL SAMPLER WITH AN INSIDE DIAMETER (ID) OF 1.5 INCHES AND AN OUTSIDE DIAMETER (OD) OF 2.0 INCHES.
2. 2.5–INCH DIAMETER RING SAMPLES WERE TAKEN USING A CALIFORNIA SPLIT BARREL SAMPLER WITH AN ID OF 2.5 INCHES AND AN OD OF 3.0 INCHES.
3. ALL DRIVE SAMPLES WERE DRIVEN WITH 140 LB HAMMER WITH A FALLING HEIGHT OF 30 INCHES.
4. ELEVATIONS BASED ON TOPOGRAPHIC MAP PROVIDED BY DRAKE HAGLAN & ASSOCIATES.



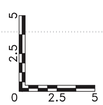
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=5' HORIZONTAL
SCALE: 1"=5' VERTICAL



ST-28

	DATE	RECORD DRAWING		SCALE
DESIGNED:		RESIDENT ENGINEER	DATE	AS SHOWN
DRAWN: D. FAHRNEY				
CHECKED: N. DAHLEN				

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

DAVID L. PEARSON — SUPERVISING ENGINEER — 12/31/17 DATE

REGISTERED PROFESSIONAL ENGINEER — David L. Pearson — No. 674 — Exp. 12/31/17 — STATE OF CALIFORNIA

PROJECT

DRY CREEK ON BURROUGH VALLEY ROAD
BRIDGE REPLACEMENT
BRIDGE NO. 42C-0134

ROAD NO. BRIDGE NO. 42C-0134

THE COUNTY OF FRESNO 1856

DEPARTMENT OF PUBLIC WORKS AND PLANNING

LOG OF TEST BORINGS
2 OF 2

DRAWING NO. 11272 SHEET NO. 64 TOTAL 64