

NOTES:

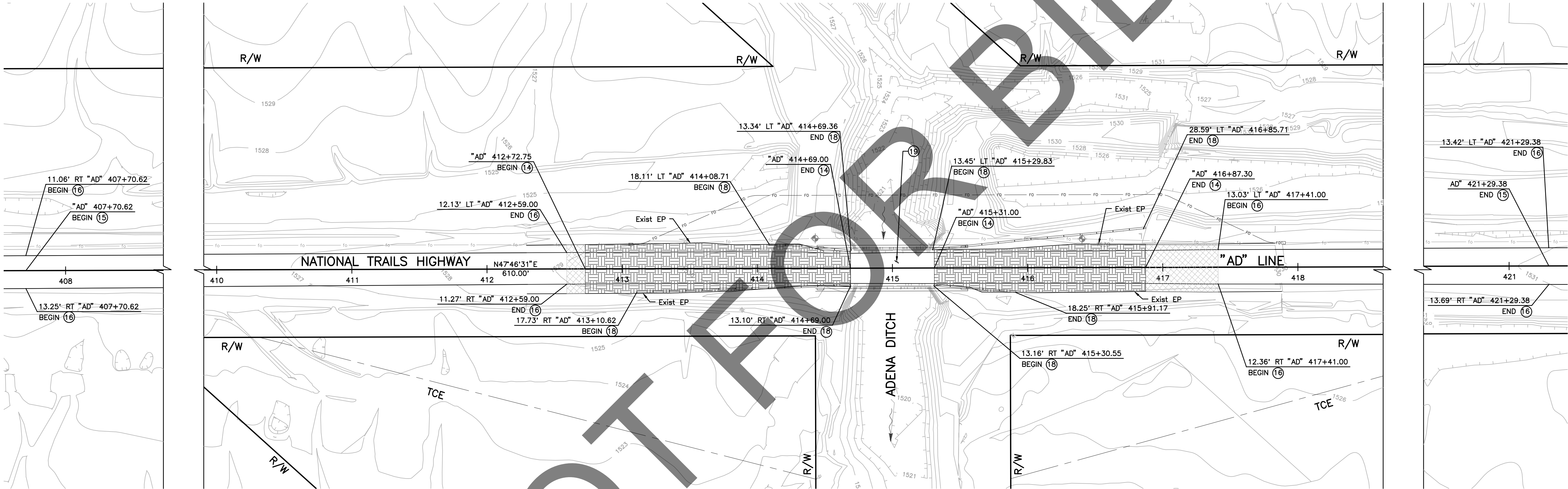
1. SEE CONSTRUCTION AREA SIGNS FOR TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

LEGEND:

- ROADWAY EXCAVATION
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- DITCH FLOW

CONSTRUCTION NOTES

- 14 ROADWAY EXCAVATION.
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 18 REMOVE RAILING (K-RAIL).
- 19 REMOVE BRIDGE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.



RV-12

PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	Chris Nguyen, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
LEI (ROCKY) LI, P.E., SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: Mervat R. Mikhail, P.E., DEPUTY DIRECTOR 1/16/2025 DATE

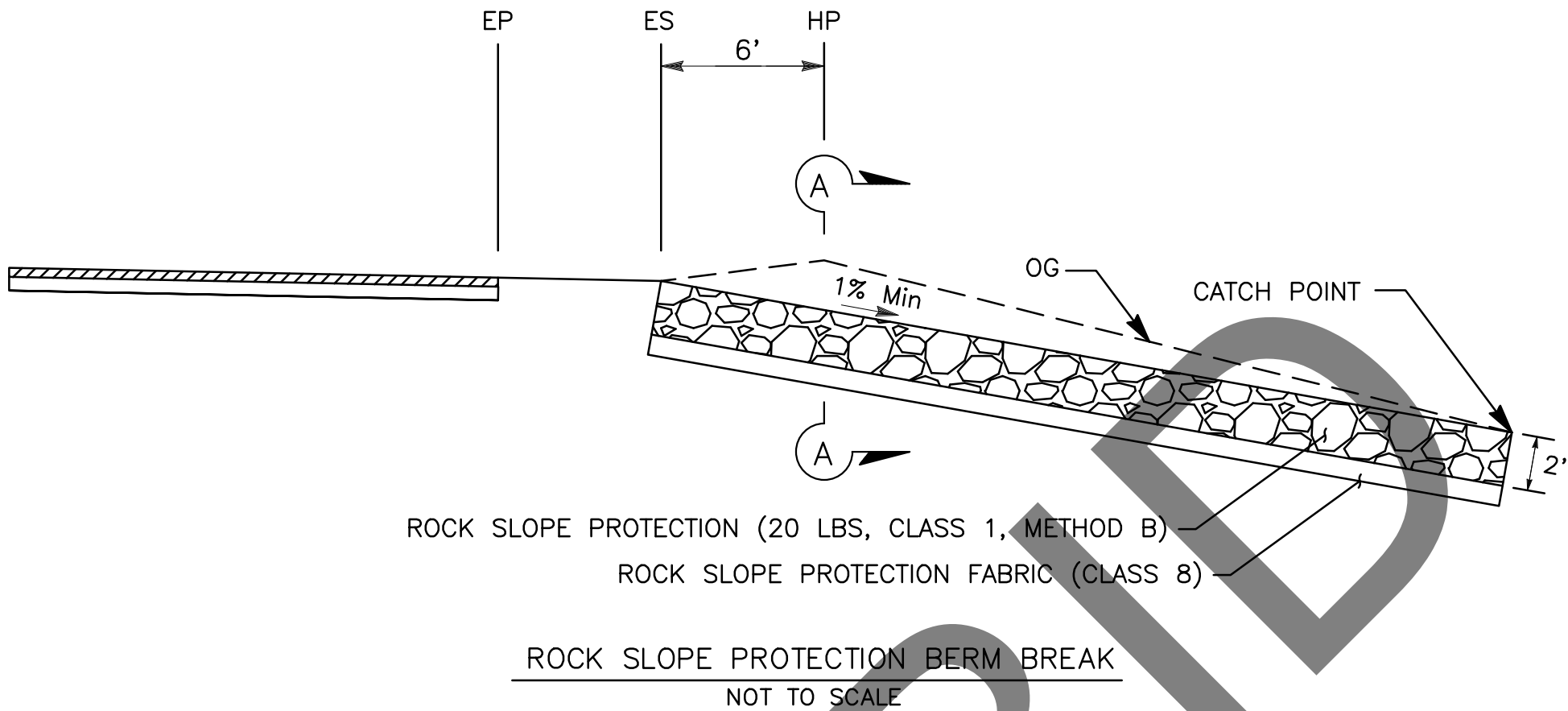
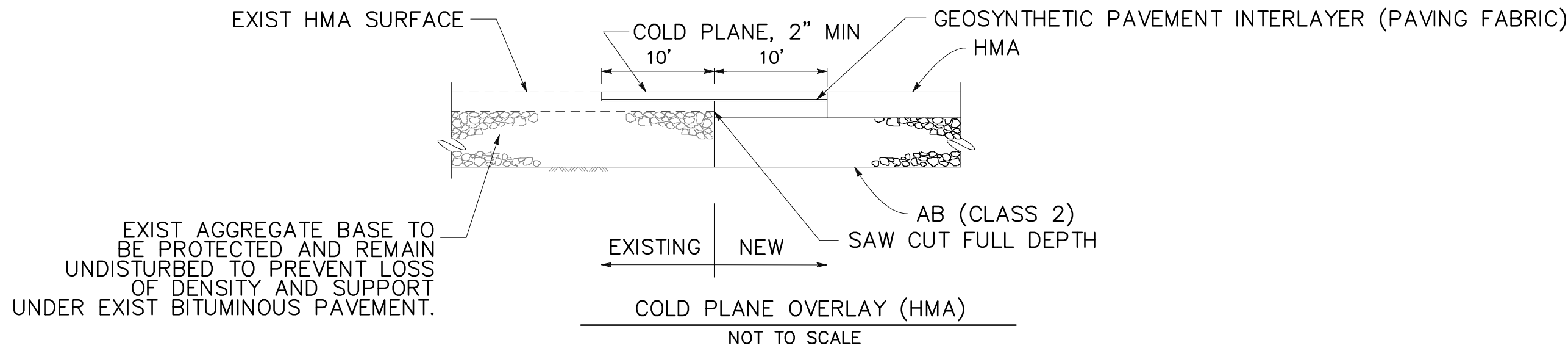
BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES

REMOVAL PLAN
ADENA DITCH

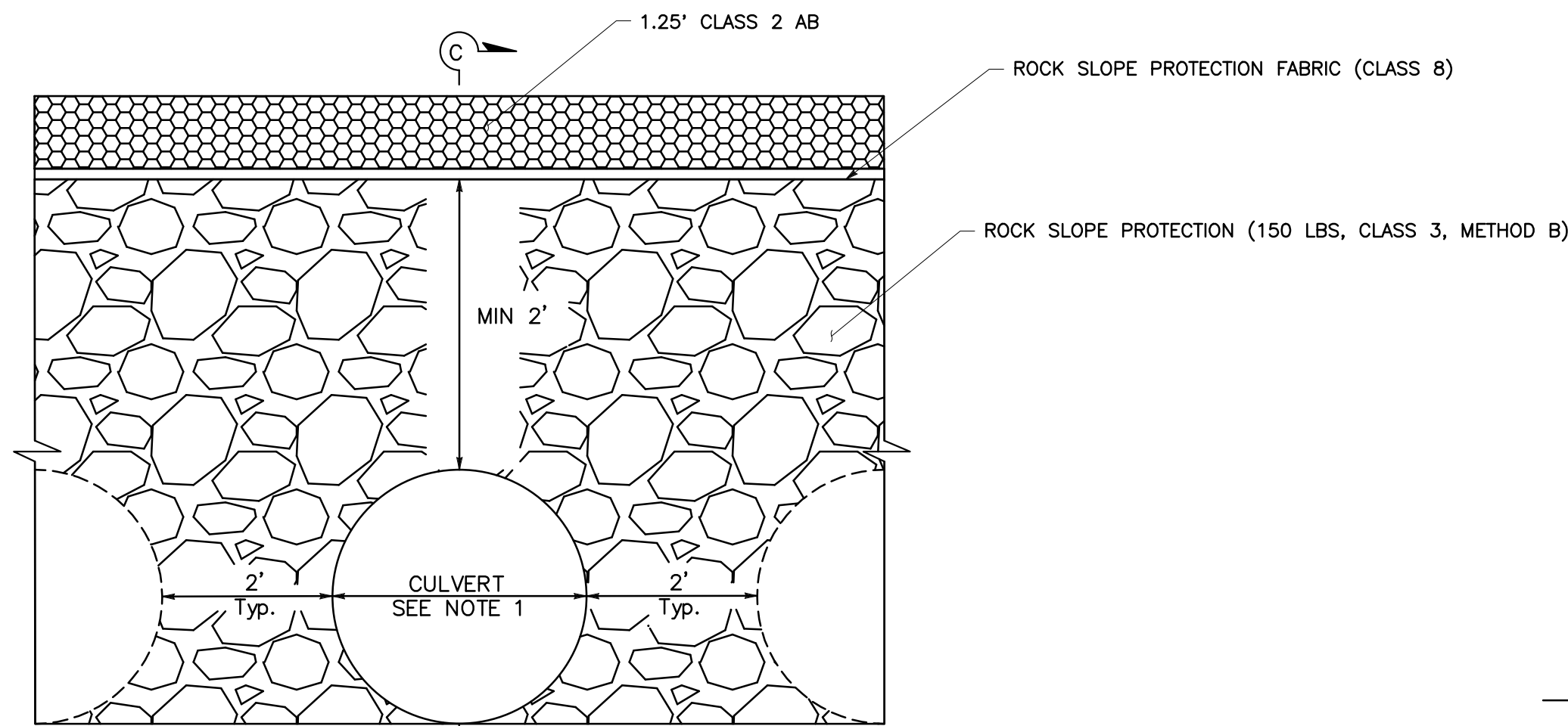
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11797	H14853	1"=40'	29	240

FILE NO. 586600-120,
586600-110, AND 586600-100

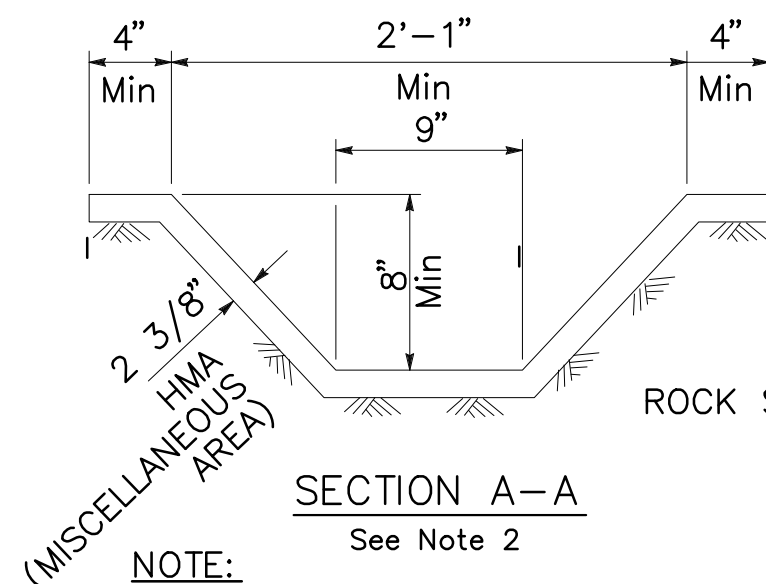
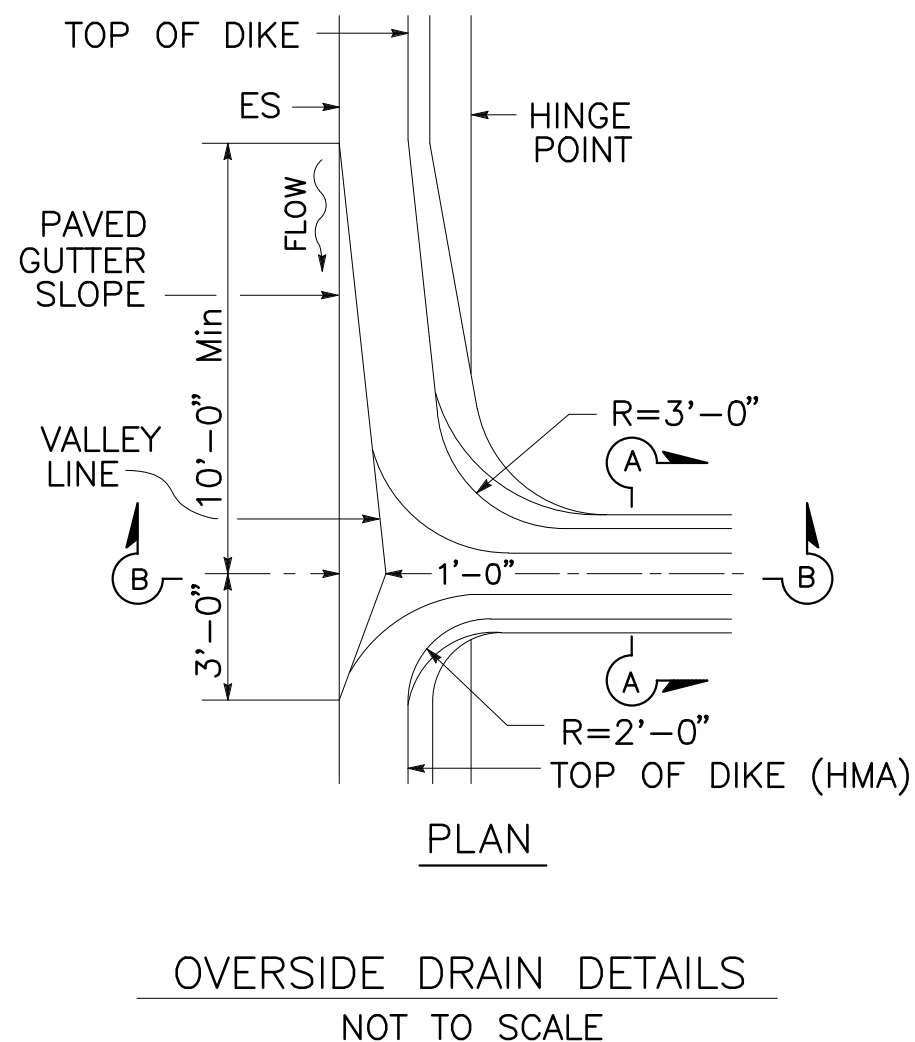
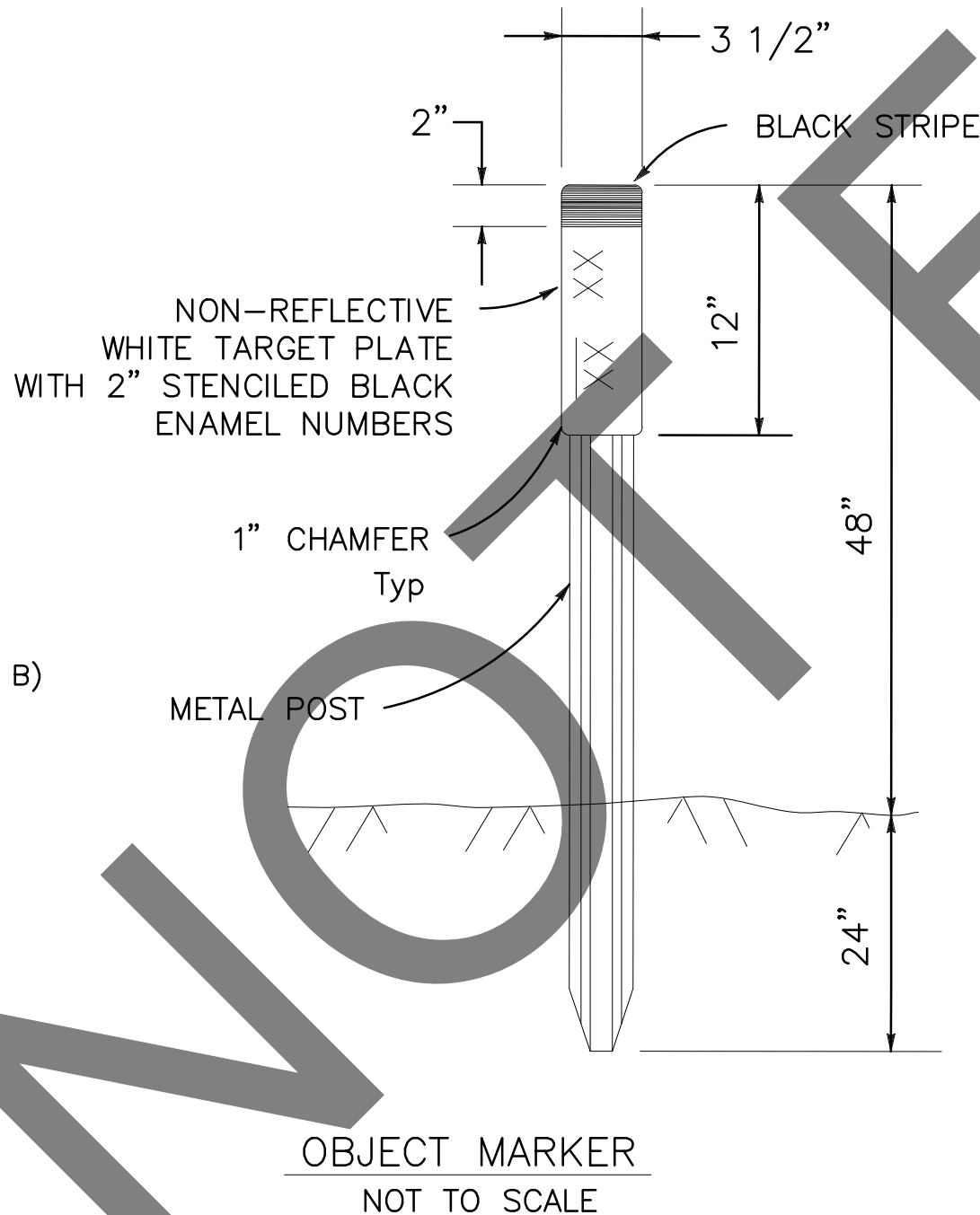
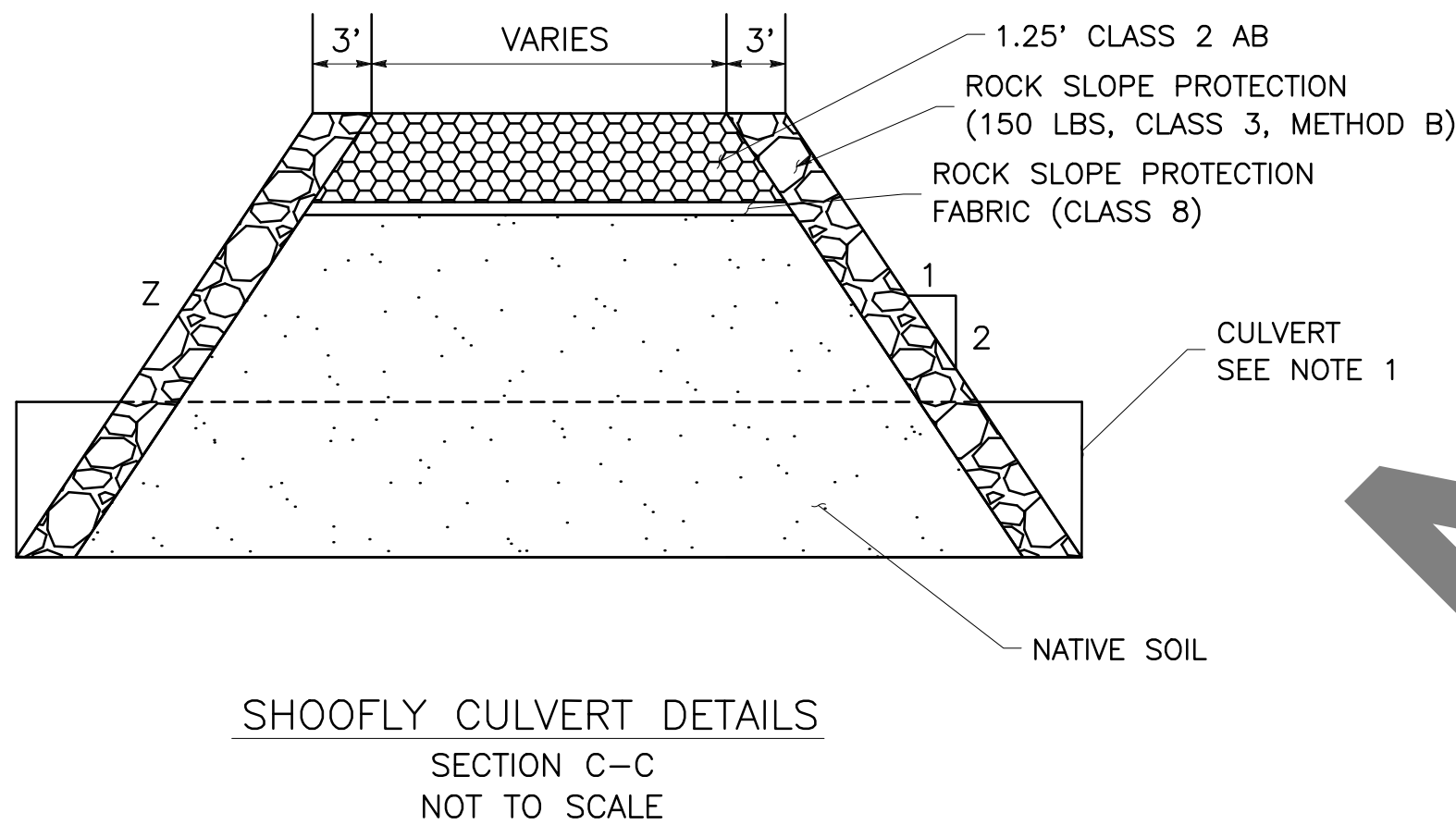
FILE NO. 586600-120, 586600-110, AND 586600-100



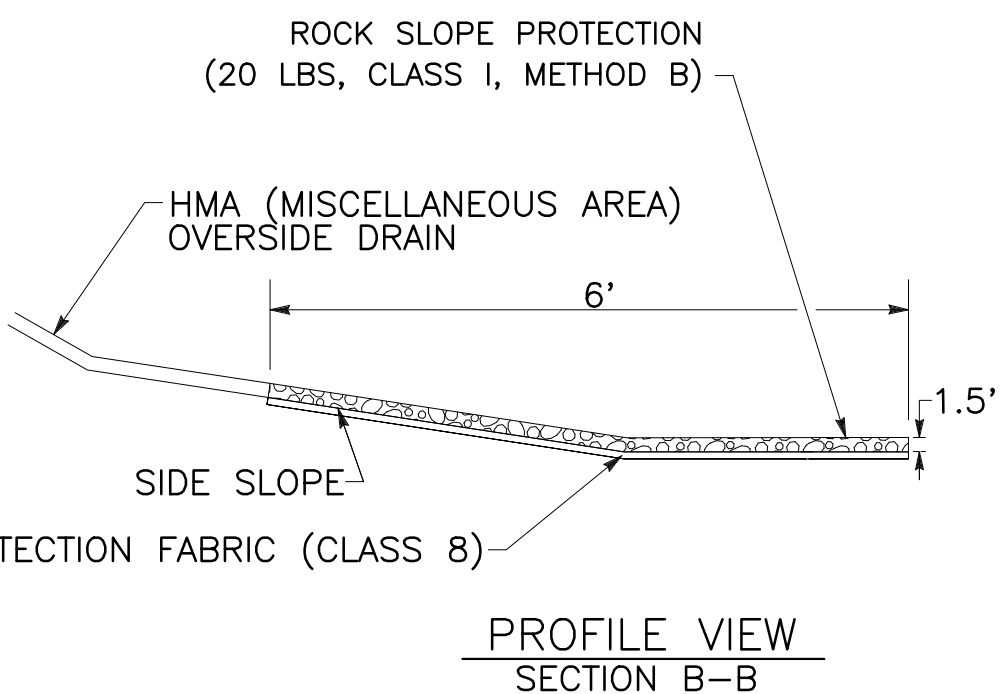
OVERSIDE DRAIN X VALUE			
BRIDGE	SHEET ID	OVERSIDE DRAIN #	LENGTH (FT) - X
BRISTOL	L-1	1	34
BRISTOL	L-1	2	38
CERRO	L-2	1	29
CERRO	L-2	2	21
GORDO	L-3	1	6
GORDO	L-3	2	6
CERULIA	L-4	1	6
CERULIA	L-4	2	6
LEITH	L-5	1	7
LEITH	L-5	2	6
TERRA	L-6	1	7
TERRA	L-6	2	6
TERRA	L-6	3	7
TERRA	L-6	4	6
SOMBRA	L-7	1	15
SOMBRA	L-7	2	37
BEACON	L-9	1	7
BEACON	L-9	2	9
LARISSA	L-10	1	7
LARISSA	L-10	2	10
ADENA	L-11	1	28
ADENA	L-11	2	50



NOTE:
1. SEE PLAN AND PROFILE (SHOOFLY),
CD-1,2,3,5,7,10,11,14,15 SHEETS FOR
CULVERT DETAILS.



NOTE:
2. CROSS SECTION OF SLOPE DITCH MAY BE
SEMICIRCULAR, VEE OR TRAPEZOIDAL.



C-1

PREPARED BY:

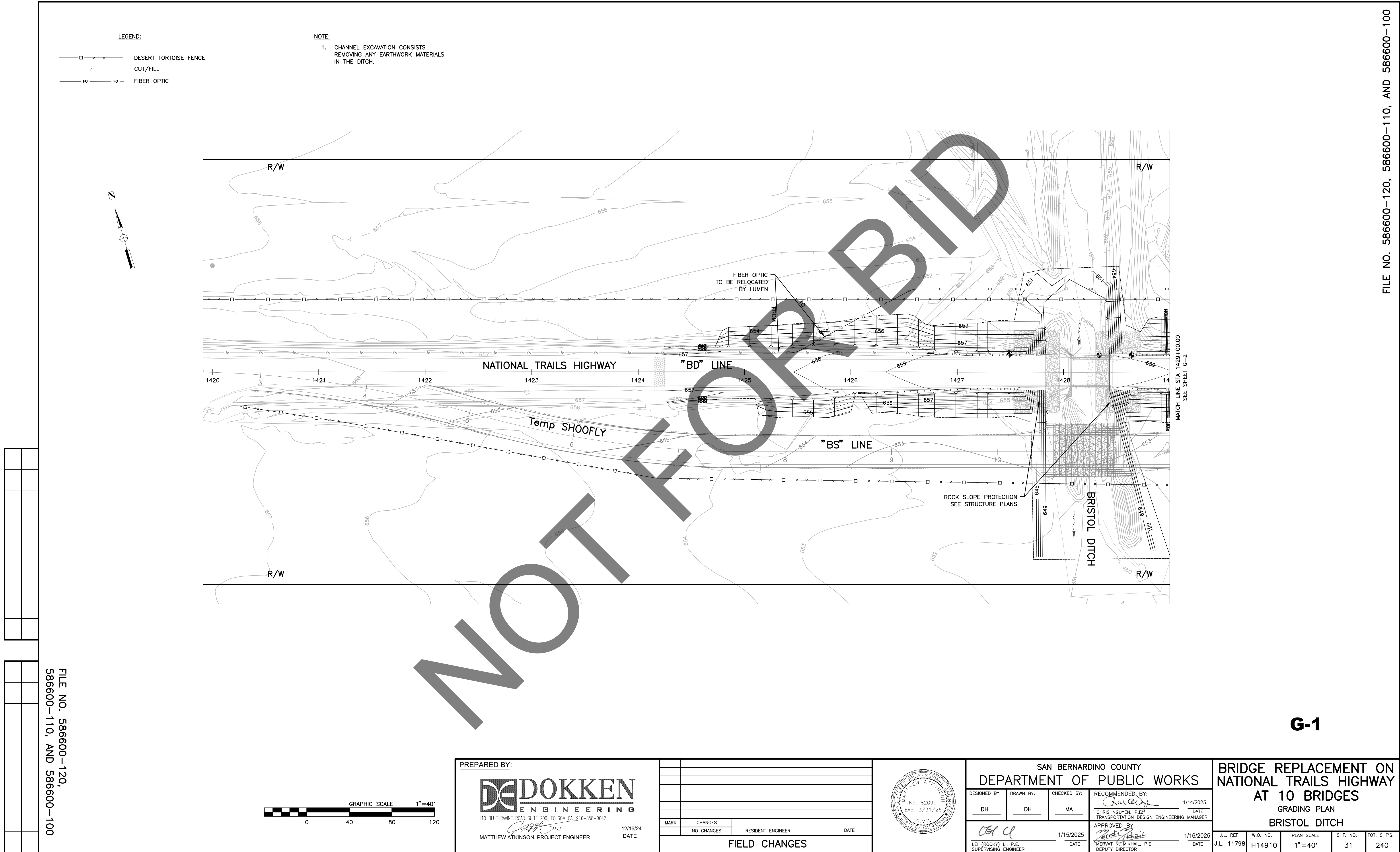
DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM CA, 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/18/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



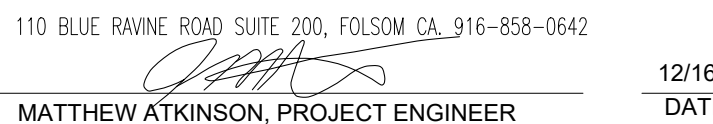
SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE	APPROVED BY: MERVAT K. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE		

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES CONSTRUCTION DETAIL				
J.L. REF. ALL	W.O. NO. ALL	PLAN SCALE 1"=30'	SHT. NO. 30	TOT. SHT'S. 240










G-1

PREPARED BY:






MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE
FIELD CHANGES		

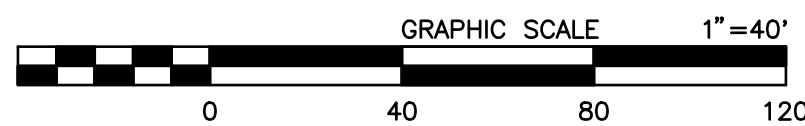
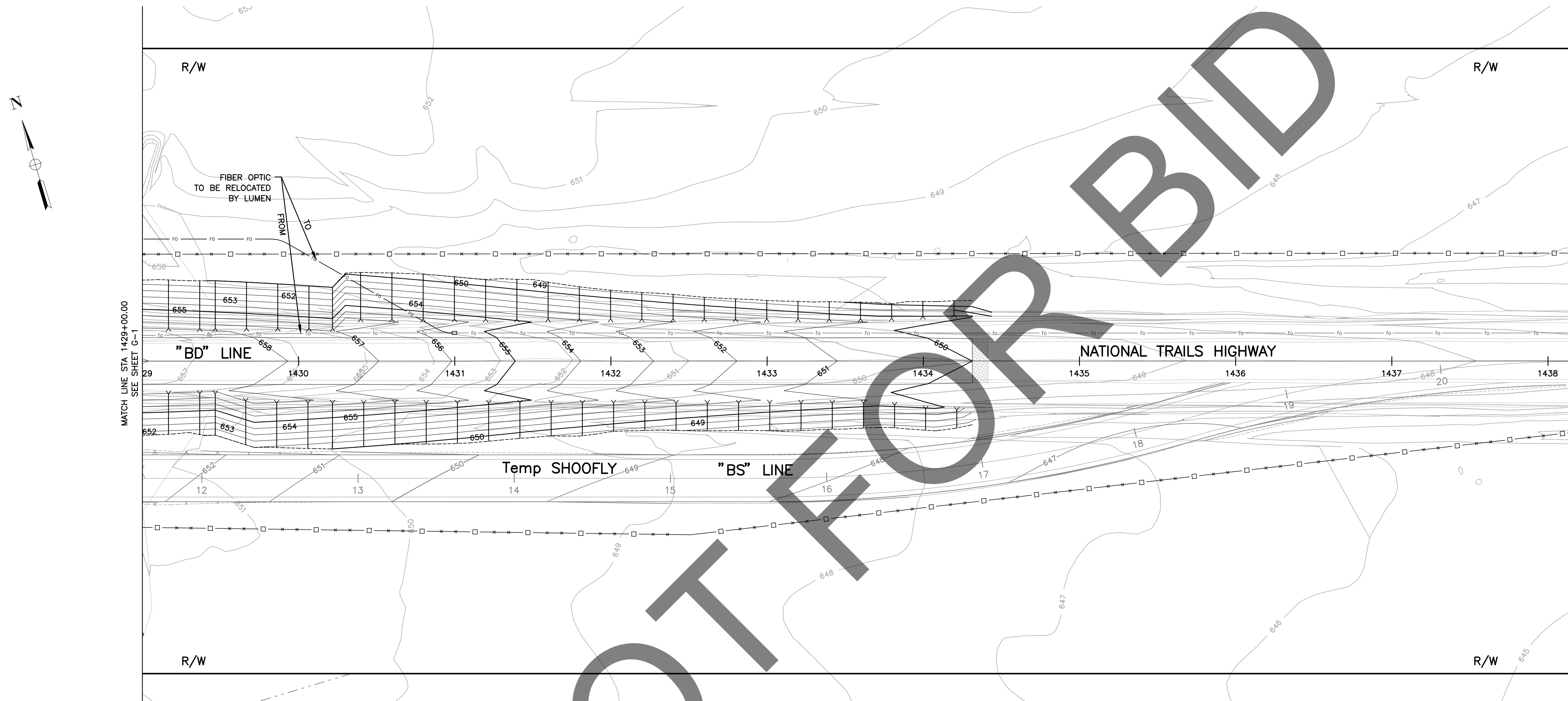


SAN BERNARDINO COUNTY					
DEPARTMENT OF PUBLIC WORKS					
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:		
					1/14/2025
DH	DH	MA	CHRIS NGUYEN, P.E.		DATE
			TRANSPORTATION DESIGN ENGINEERING MANAGER		
 		1/15/2025	APPROVED BY: 		1/16/2025
LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER		DATE	MERVAT K MIKHAL, P.E. DEPUTY DIRECTOR		DATE

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES GRADING PLAN BRISTOL DITCH					
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.	
J.L. 11798	H14910	1" = 40'	32	240	

 DESERT TORTOISE FENCE
 CUT/FILL
 FIBER OPTIC

1. CHANNEL EXCAVATION CONSISTS REMOVING ANY EARTHWORK MATERIALS IN THE DITCH.



FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

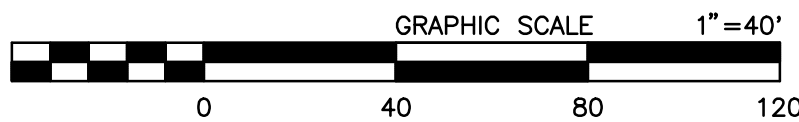
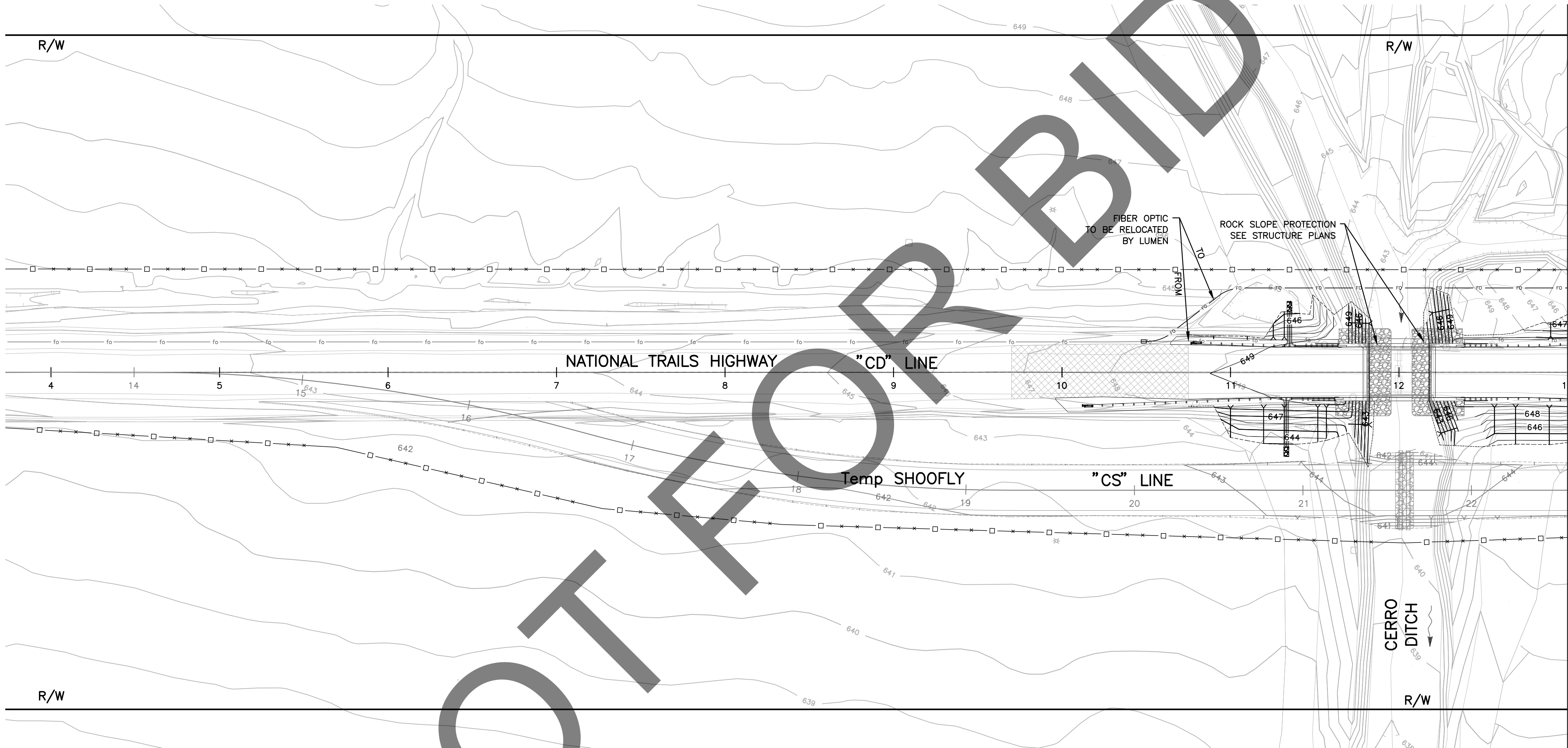
G-3

LEGEND:

- DESERT TORTOISE FENCE
CUT/FILL
FIBER OPTIC

NOTE:

1. CHANNEL EXCAVATION CONSISTS
REMOVING ANY EARTHWORK MATERIALS
IN THE DITCH.



PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 95630-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

MARK CHANGES NO CHANGES RESIDENT ENGINEER DATE

FIELD CHANGES

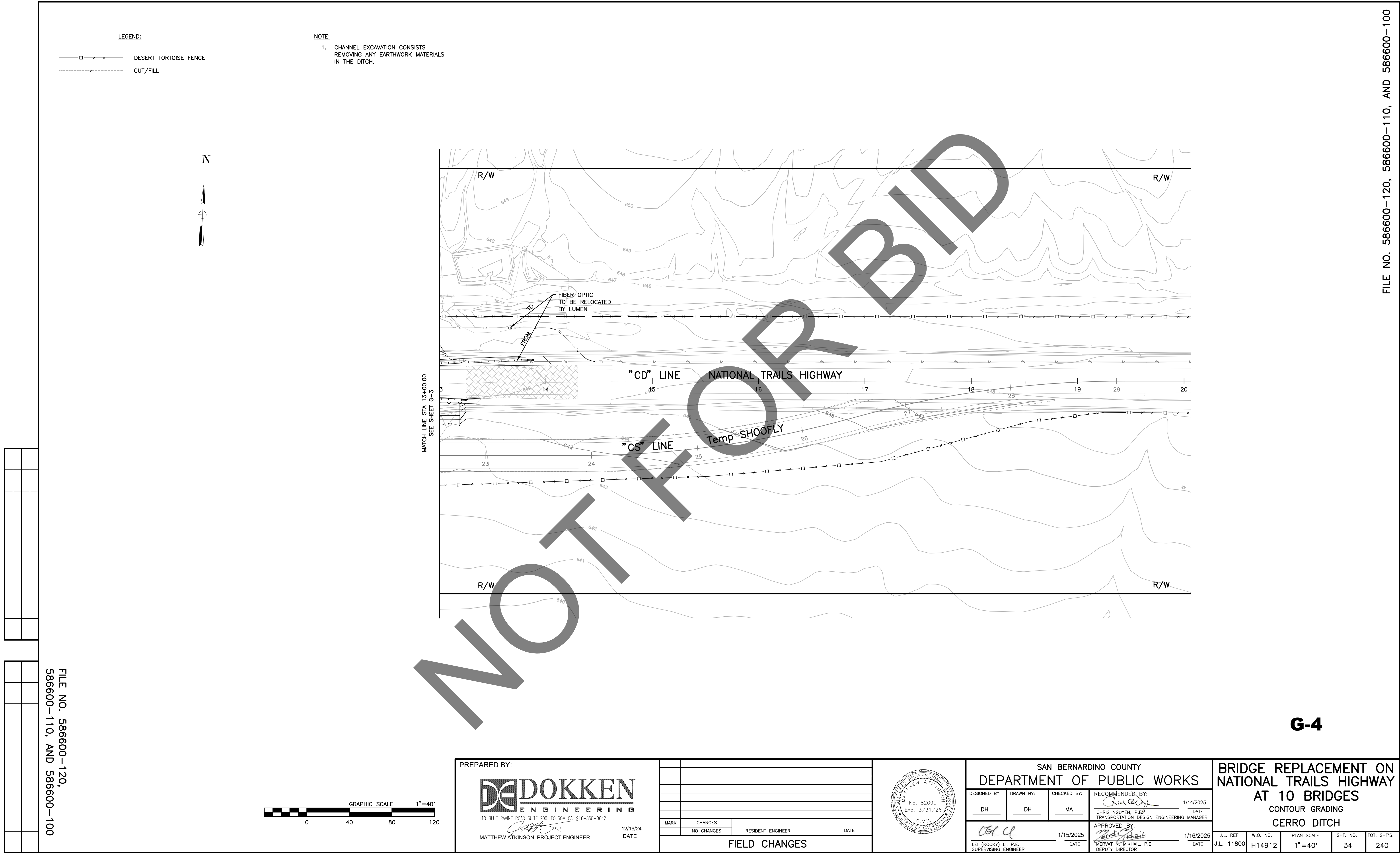


SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH DRAWN BY: DH CHECKED BY: MA RECOMMENDED BY: 1/14/2025
CHRIS NGUYEN, P.E.
TRANSPORTATION DESIGN ENGINEERING MANAGER
APPROVED BY: 1/16/2025
LEI (ROCKY) LI, P.E.
SUPERVISING ENGINEER
MERVAT R. MIKHAIL, P.E.
DEPUTY DIRECTOR

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
CONTOUR GRADING
CERRO DITCH

J.L. REF. W.O. NO. PLAN SCALE SHT. NO. TOT. SHT'S.
J.L. 11800 H14912 1"=40' 33 240



FILE NO. 586600-120,
586600-110, AND 586600-100

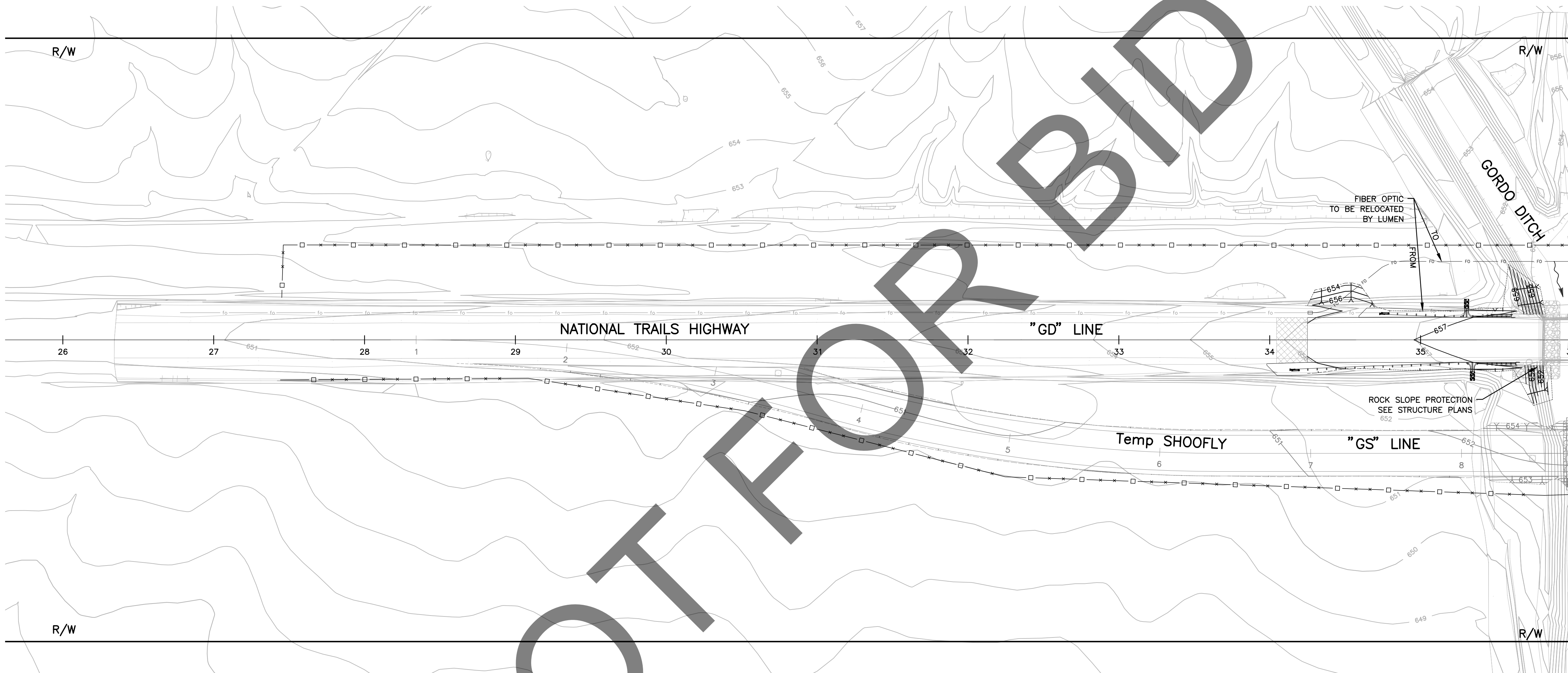
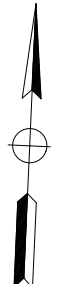
LEGEND:

- *—*— DESERT TORTOISE FENCE
- - - - - CUT/FILL
—FO—FO— FIBER OPTIC

NOTE:

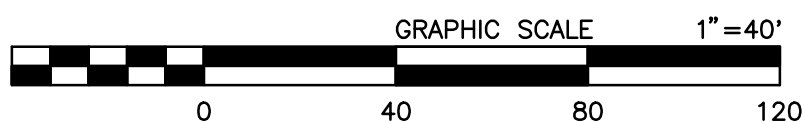
1. CHANNEL EXCAVATION CONSISTS
REMOVING ANY EARTHWORK MATERIALS
IN THE DITCH.

N



MATCH LINE STA 36+00.00
SEE SHEET G-6

G-5



PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/18/24
DATE

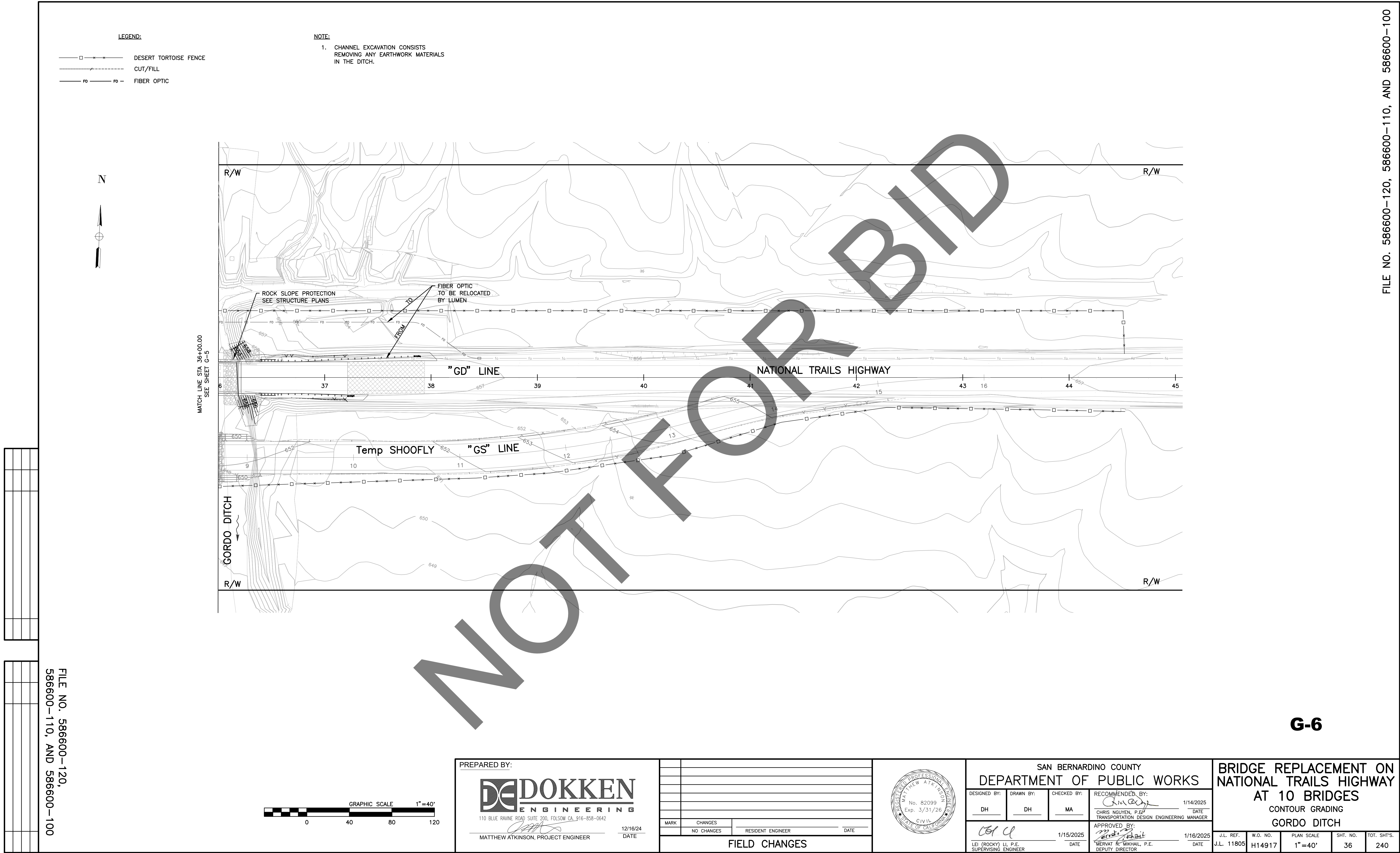
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE	APPROVED BY: Mervat R. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE		

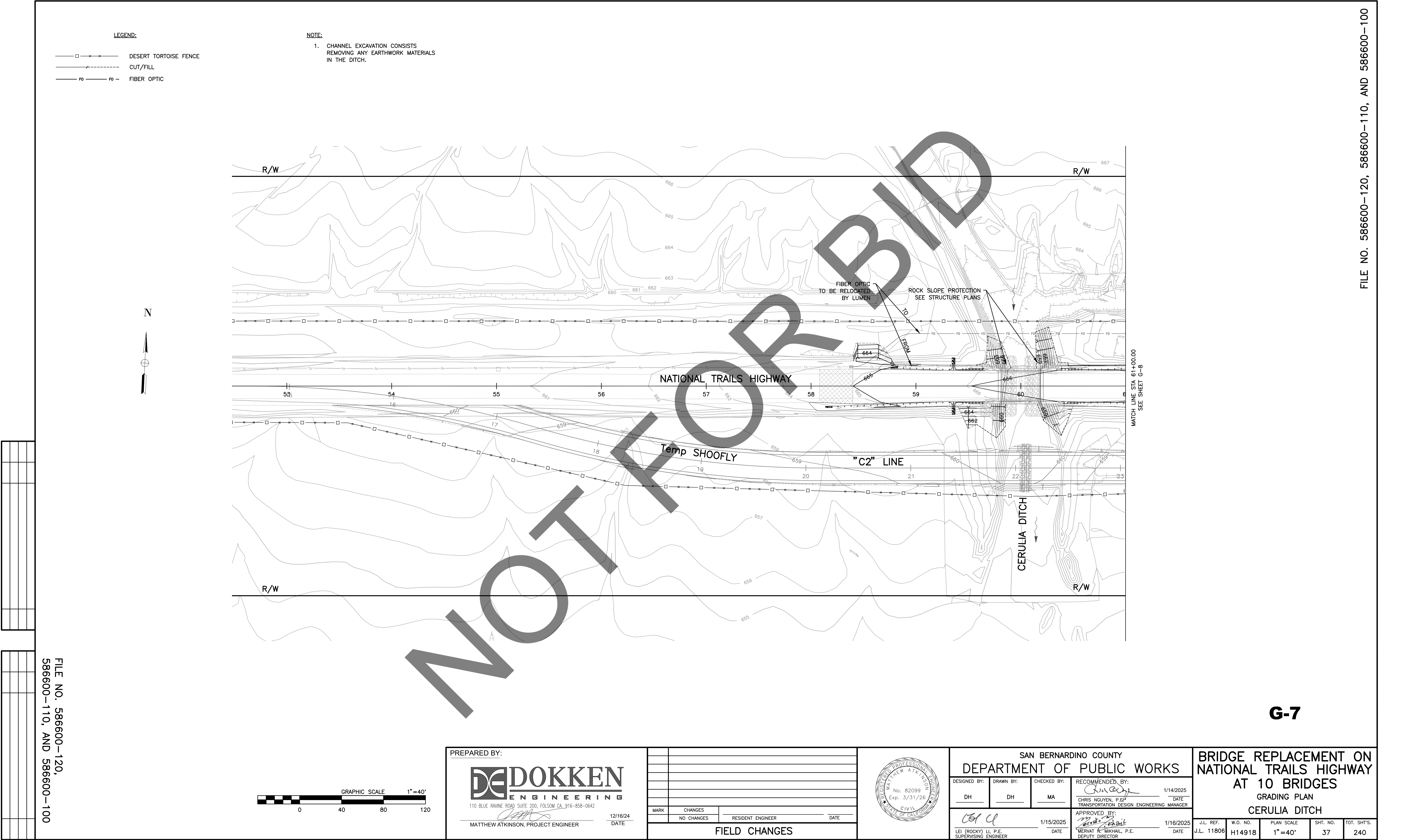
BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES CONTOUR GRADING GORDO DITCH			
J.L. REF. J.L. 11805	W.O. NO. H14917	PLAN SCALE 1"=40'	SHT. NO. 35
TOT. SHT'S. 240			

FILE NO. 586600-120, 586600-110, AND 586600-100



FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

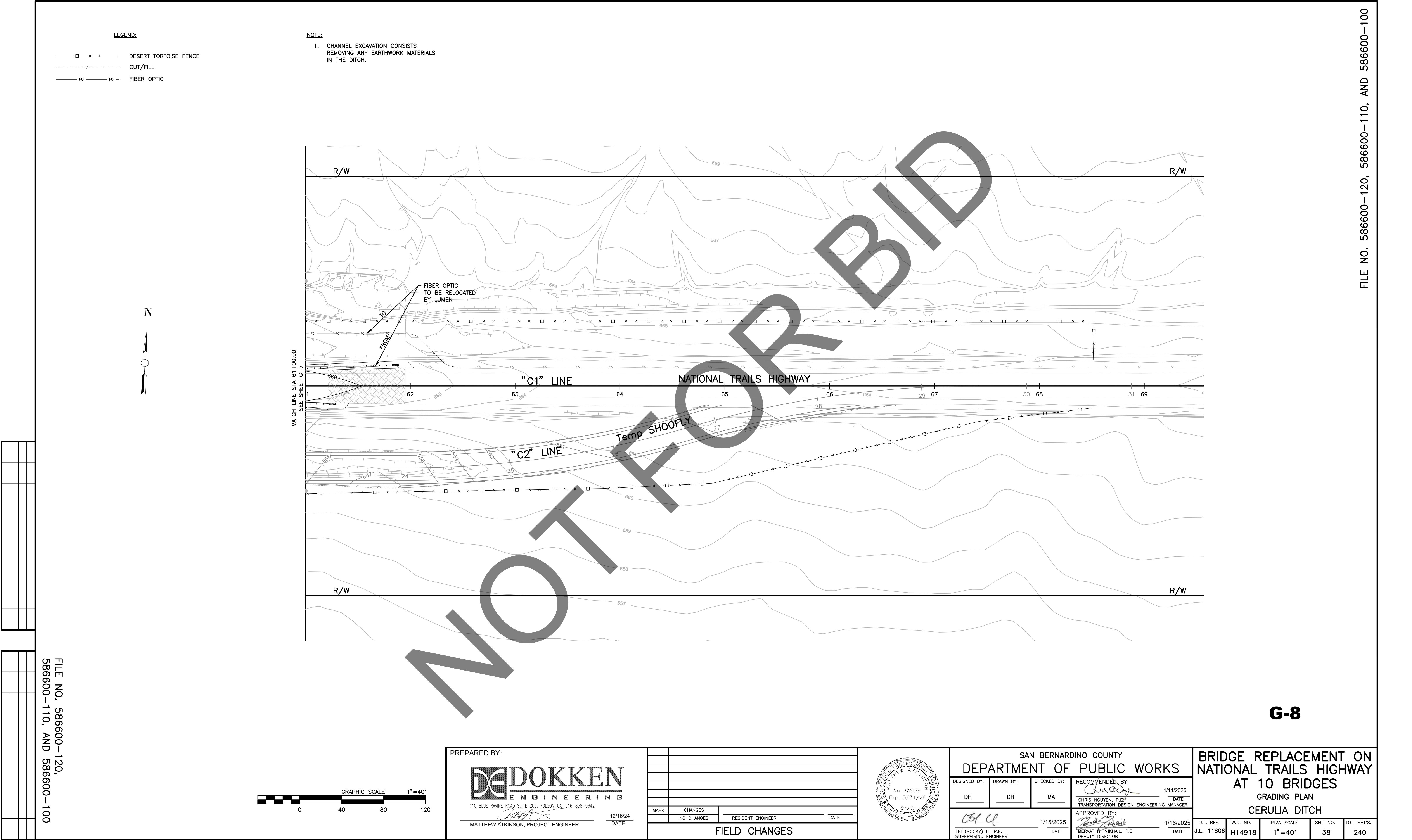


FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

G-7

PREPARED BY: DOKKEN ENGINEERING 110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA 95630-0642 MATTHEW ATKINSON, PROJECT ENGINEER 12/16/24 DATE		<table><tr><td>MARK</td><td>CHANGES</td><td>RESIDENT ENGINEER</td><td>DATE</td></tr><tr><td></td><td>NO CHANGES</td><td></td><td></td></tr></table>		MARK	CHANGES	RESIDENT ENGINEER	DATE		NO CHANGES			<table><tr><td colspan="2">FIELD CHANGES</td></tr></table>		FIELD CHANGES		<table><tr><td colspan="2">SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</td></tr><tr><td>DESIGNED BY: DH</td><td>DRAWN BY: DH</td><td>CHECKED BY: MA</td><td>RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE</td></tr><tr><td colspan="2">APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE</td><td colspan="2">APPROVED BY: MERVAT R. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE</td></tr></table>		SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS		DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE	APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE		APPROVED BY: MERVAT R. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE		BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES GRADING PLAN CERULIA DITCH J.L. REF. J.L. 11808 W.O. NO. H14918 PLAN SCALE 1"=40' SHT. NO. 37 TOT. SHT'S. 240	
MARK	CHANGES	RESIDENT ENGINEER	DATE																										
	NO CHANGES																												
FIELD CHANGES																													
SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS																													
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE																										
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE		APPROVED BY: MERVAT R. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE																											



LEGEND:

- DESERT TORTOISE FENCE
- CUT/FILL
- FIBER OPTIC

NOTE:

- CHANNEL EXCAVATION CONSISTS REMOVING ANY EARTHWORK MATERIALS IN THE DITCH.

MATCH LINE STA 61+00.00
SEE SHEET G-7

R/W

R/W

R/W

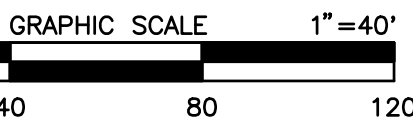
R/W

"C1" LINE

NATIONAL TRAILS HIGHWAY

"C2" LINE

Temp SHOOFLY



PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/18/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



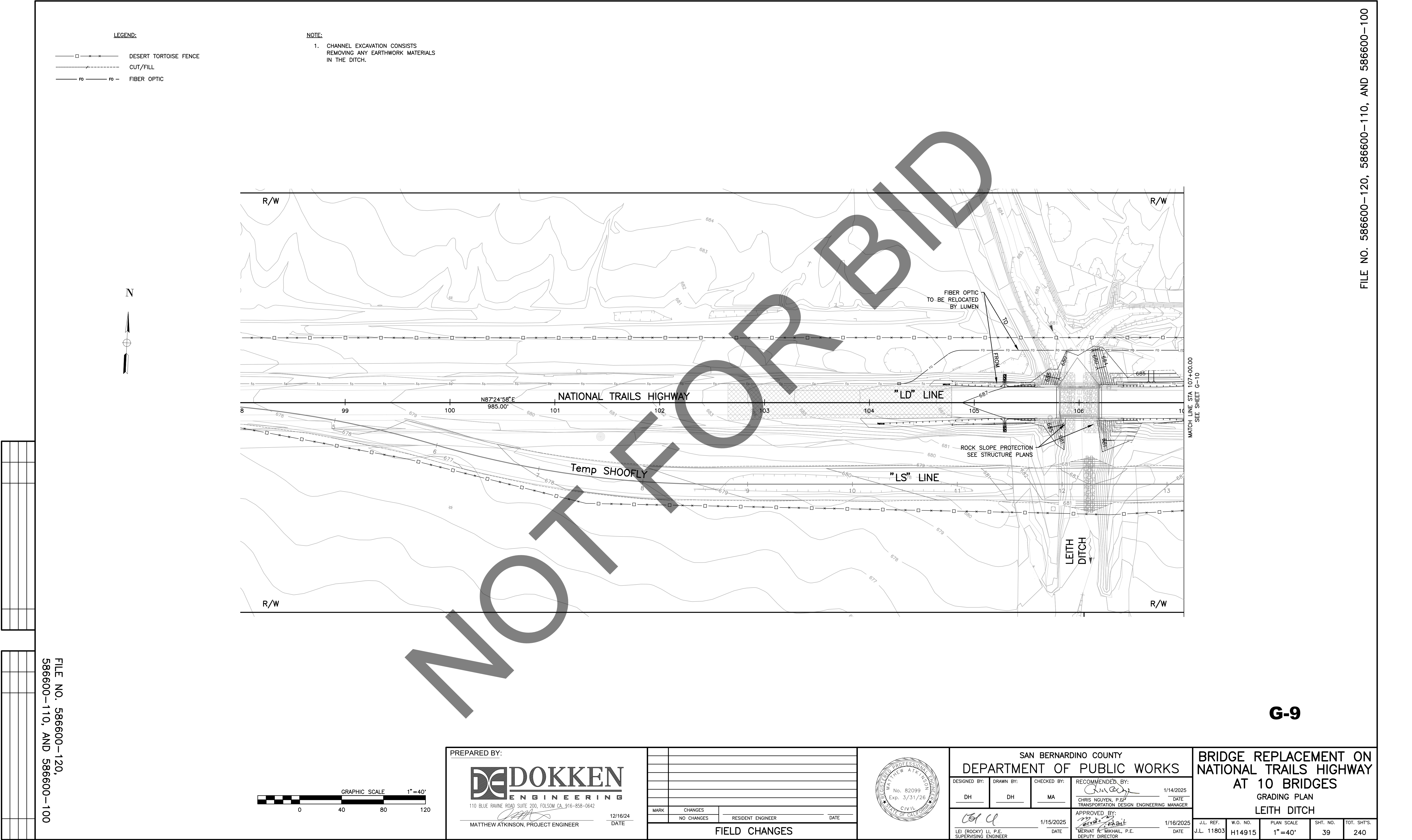
SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER	1/15/2025 DATE	Mervat R. Mikhail, P.E. DEPUTY DIRECTOR	1/16/2025 DATE

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11808	H14918	1"=40'	38	240

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
GRADING PLAN
CERULIA DITCH

G-8



LEGEND:

- DESERT TORTOISE FENCE
- CUT/FILL
- FIBER OPTIC

NOTE:

- 1. CHANNEL EXCAVATION CONSISTS REMOVING ANY EARTHWORK MATERIALS IN THE DITCH.

PREPARED BY:

DOKKEN ENGINEERING
110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA 95642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS


DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: Mervat R. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE			

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
GRADING PLAN
LEITH DITCH

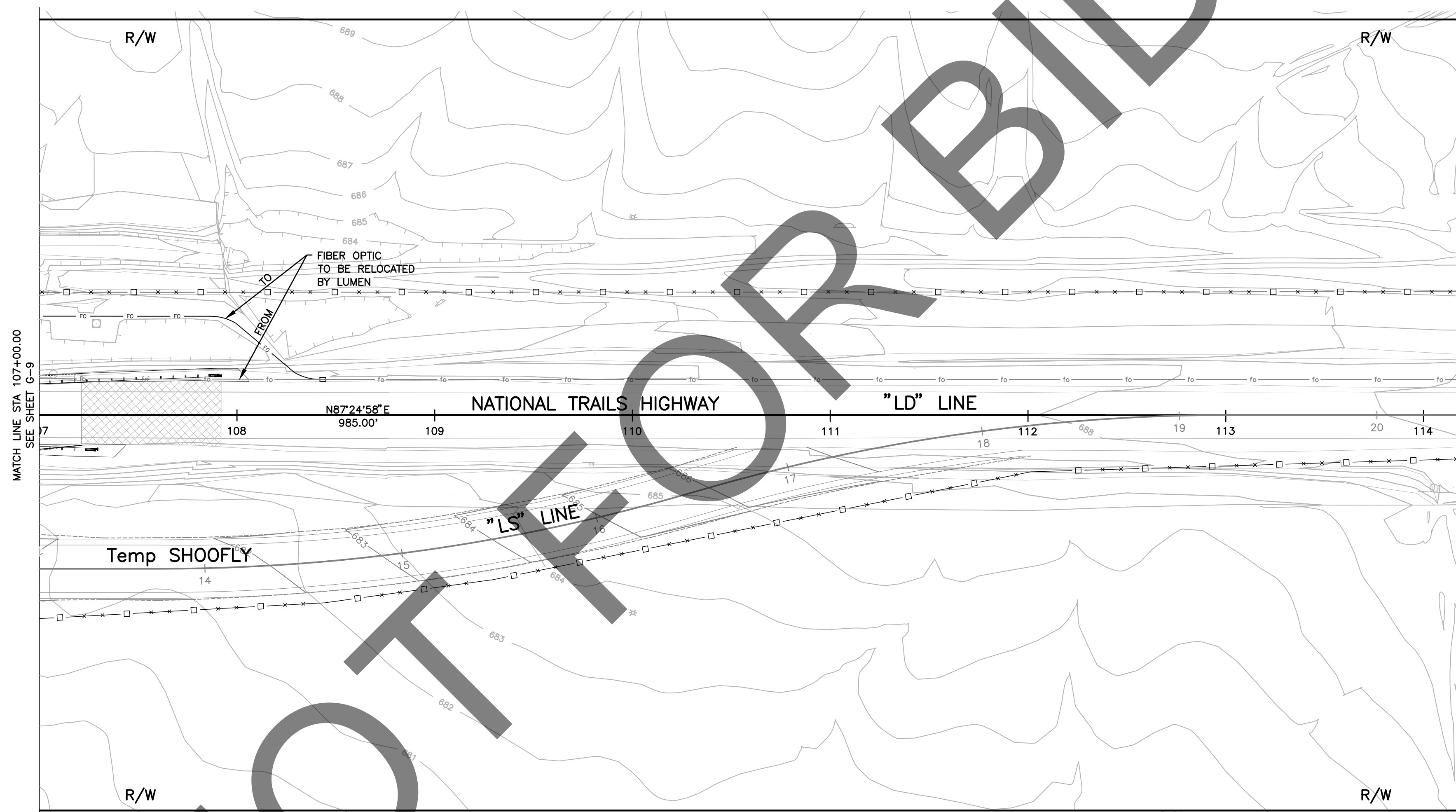
J.L. REF. J.L. 11803	W.O. NO. H14915	PLAN SCALE 1"=40'	SHT. NO. 39	TOT. SHT'S. 240
-------------------------	--------------------	----------------------	----------------	--------------------

FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100


 DESERT TORTOISE FENCE
 CUT/FILL
 FIBER OPTIC

1. CHANNEL EXCAVATION CONSISTS REMOVING ANY EARTHWORK MATERIALS IN THE DITCH.



MATCH LINE STA 107+00.00
SEE SHEET G-9

Temp SHOOFLY

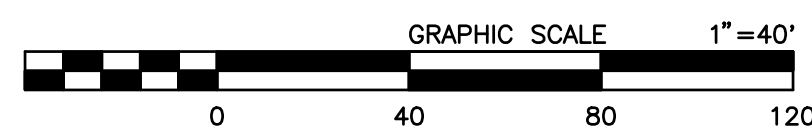
N87°24'58"E

NATIONAL TRAILS HIGHWAY

"LD" LINE

"IS" LINE

G-10



PREPARED BY:



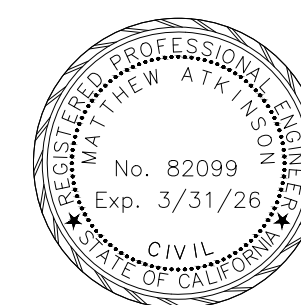
DOKKEN
ENGINEERING

110 BLUE RAVINE ROAD, SUITE 200, FOLSOM, CA. 916-858-0641

12/16/24
DATE

MARK	CHANGES		
	NO CHANGES	RESIDENT ENGINEER	DATE

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

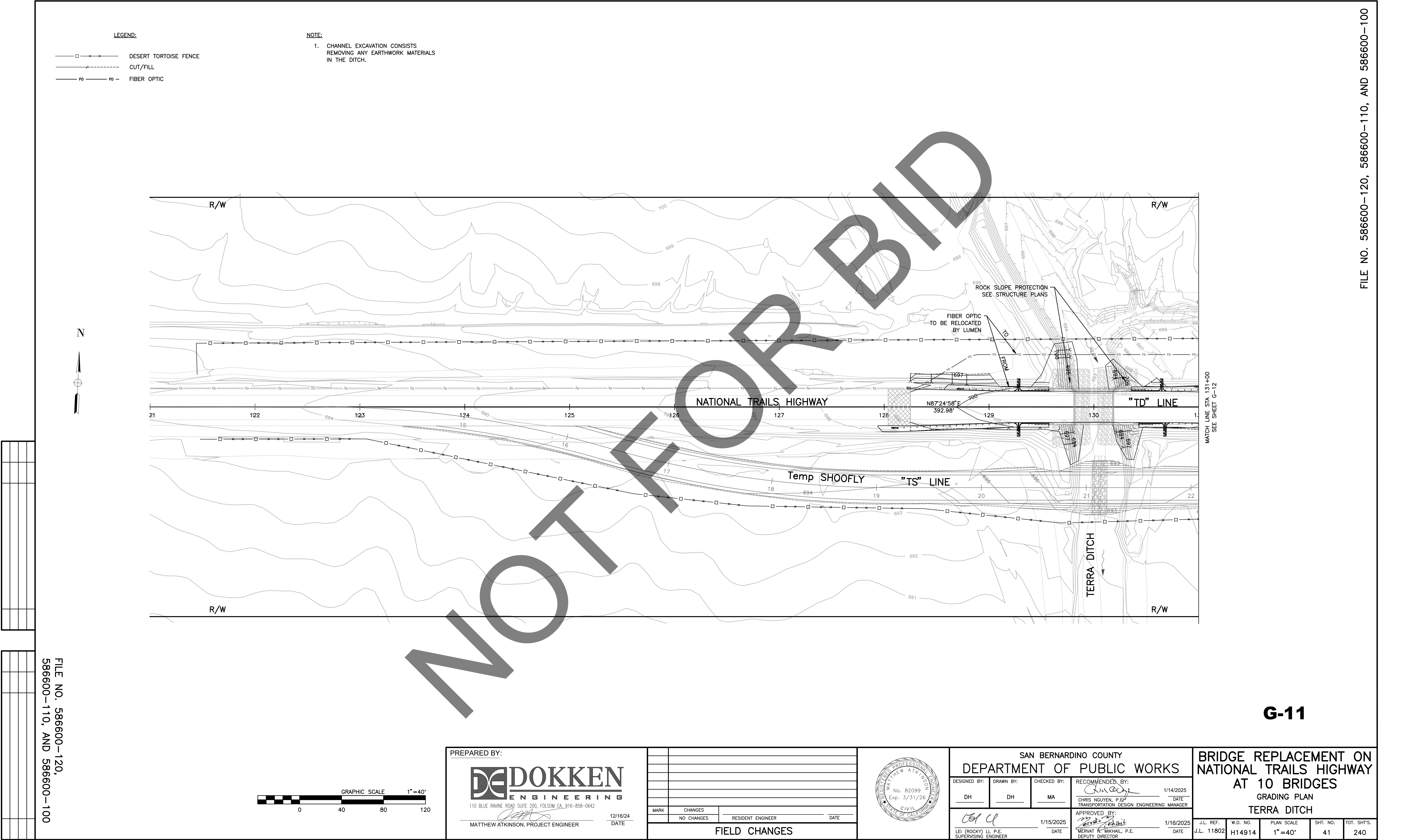
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:	1/14/2025
DH	DH	MA	CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER	
1/15/2025		1/16/2020		
LEI (ROCKY) U. P.E. CIVIL ENGINEER			MERVAT K. MIKHAIL, P.E. GENERAL ENGINEER	

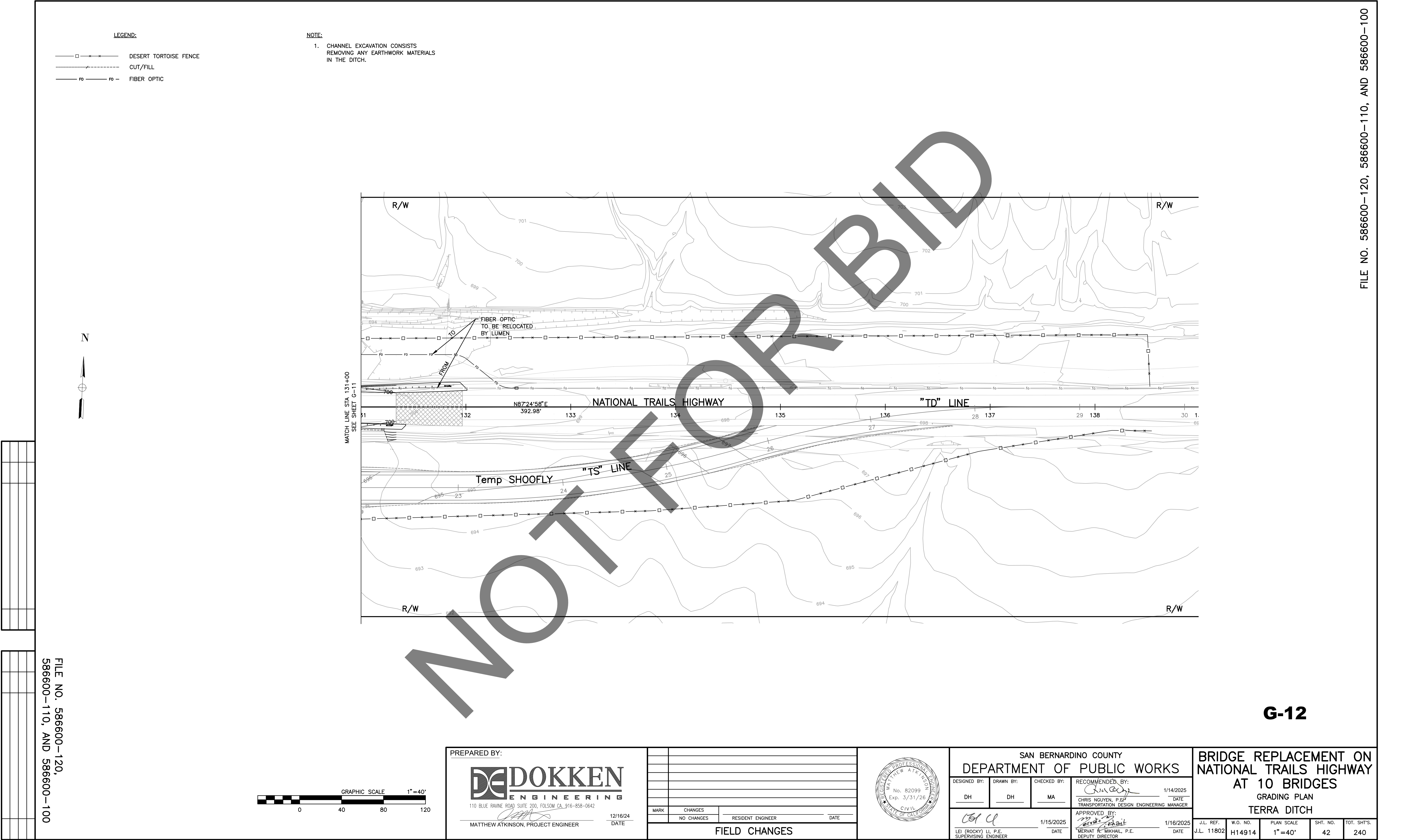
BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
GRADING PLAN
LEITH DITCH

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11803	H14915	1"=40'	40	240

FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100





LEGEND:

- DESERT TORTOISE FENCE
- CUT/FILL
- FIBER OPTIC

NOTE:

- 1. CHANNEL EXCAVATION CONSISTS REMOVING ANY EARTHWORK MATERIALS IN THE DITCH.

MATCH LINE STA. 131+00
SEE SHEET G-11

R/W

R/W

G-12

PREPARED BY:

110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 95630-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	Chris Nguyen, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER

1/14/2025
DATE

APPROVED BY:

Mervat R. Mikhail, P.E.,
DEPUTY DIRECTOR

1/16/2025
DATE

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11802	H14914	1"=40'	42	240

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
GRADING PLAN
TERRA DITCH

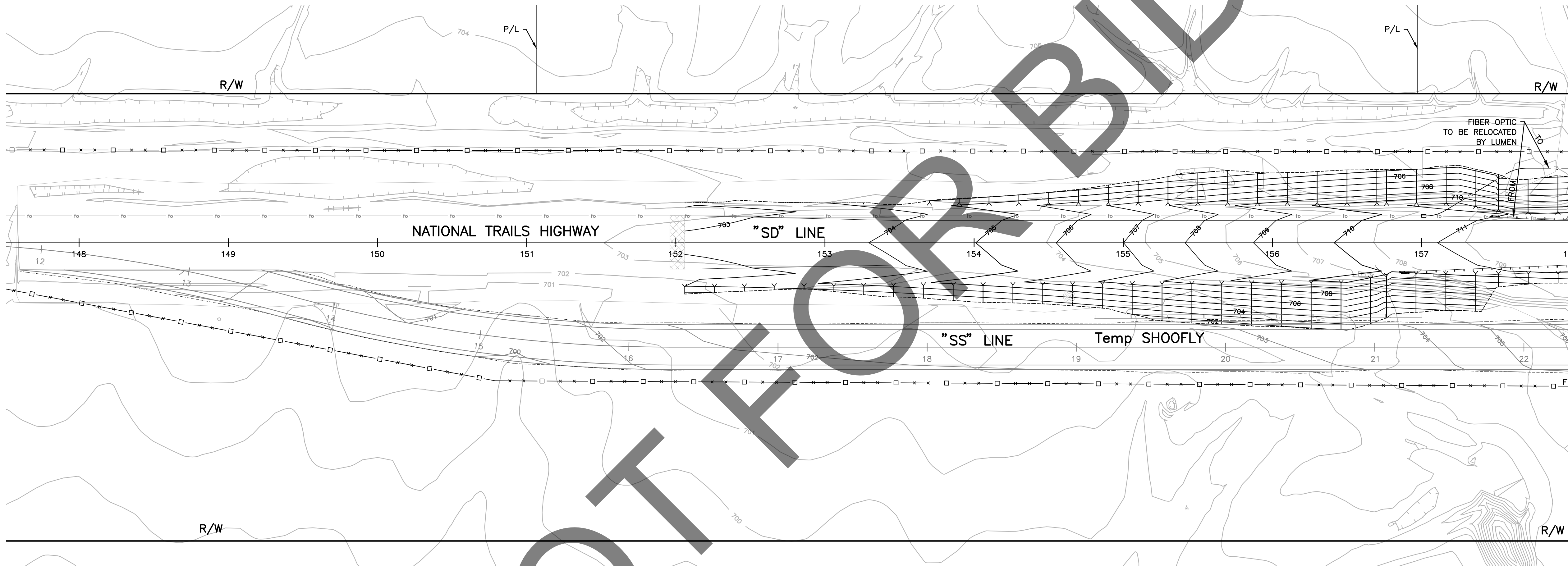
FILE NO. 586600-120,
586600-110, AND 586600-100

LEGEND:

- *—*— DESERT TORTOISE FENCE
- - - - - CUT/FILL
—FO—FO— FIBER OPTIC

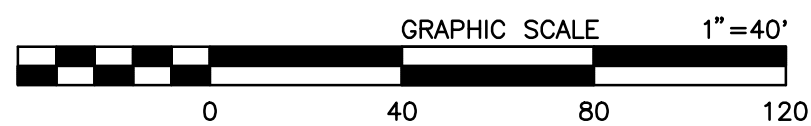
NOTE:

1. CHANNEL EXCAVATION CONSISTS
REMOVING ANY EARTHWORK MATERIALS
IN THE DITCH.



MATCH LINE STA 158+00.00
SEE SHEET G-14

G-13

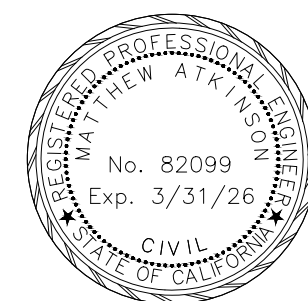


PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/18/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: Lei (Rocky) Li, P.E. SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: Mervat R. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
CONTOUR GRADING
SOMBRA DITCH

J.L. REF. J.L. 11799	W.O. NO. H14911	PLAN SCALE 1"=40'	SHT. NO. 43	TOT. SHT'S. 240
-------------------------	--------------------	----------------------	----------------	--------------------

FILE NO. 586600-120, 586600-110, AND 586600-100

G-14

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES

25	J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
	J.L. 11799	H14911	1"=40'	44	240

SAN BERNARDINO COUNTY				
DEPARTMENT OF PUBLIC WORKS				
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:	
DH	DH	MA	<i>Chris Nguyen</i>	1/14/2025
			CHRIS NGUYEN, P.E.	DATE
			TRANSFORMATION DESIGN ENGINEERING MANGE	
<i>CEP CL</i>		1/15/2025	APPROVED BY:	
LEI (ROCKY) LI, P.E.		DATE	<i>Merwat N. Michael</i>	1/16/2025
LI, P.E.			MERWAT N. MICHAEL, P.E.	DATE
LI, P.E.				

[illegible]

PREPARED BY:

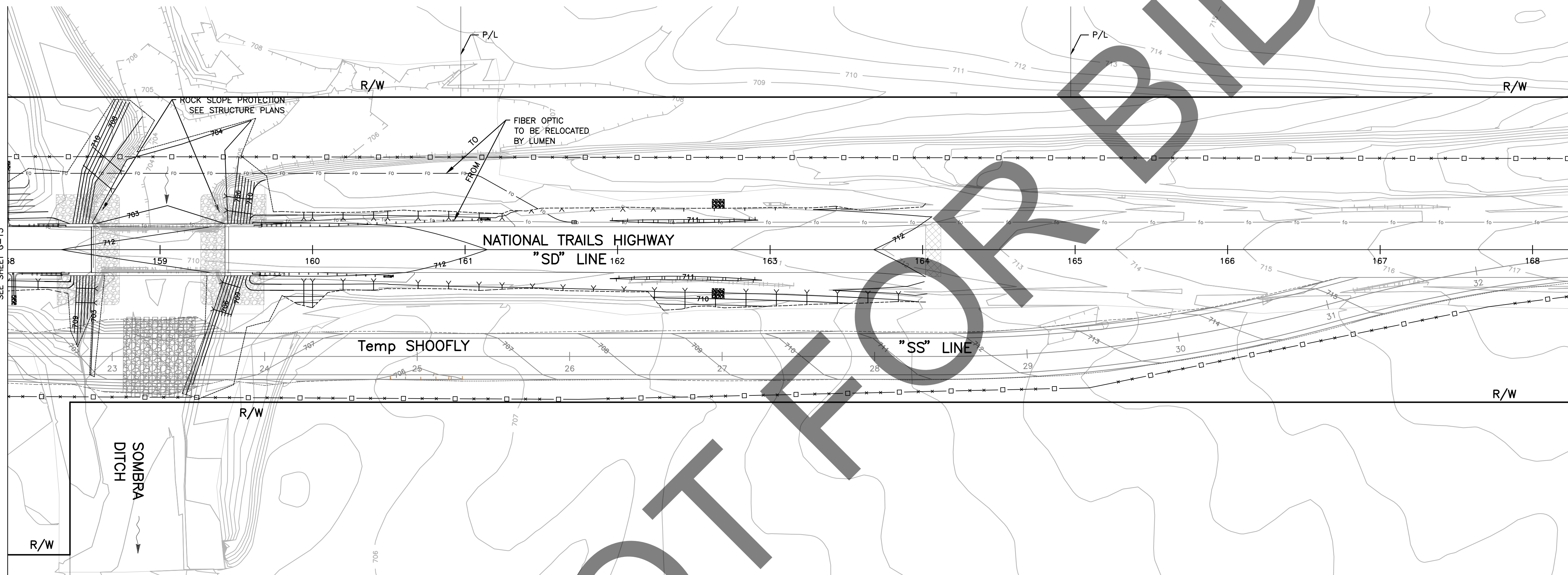
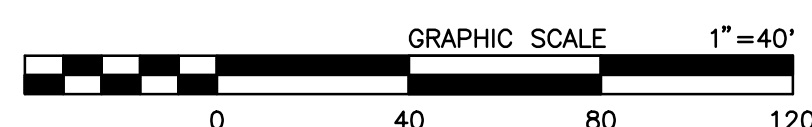
DE DOKKEN
ENGINEERING

110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA, 916-858-0642

[Signature]

MATTHEW ATKINSON, PROJECT ENGINEER

12/16/24
DATE



MATCH LINE STA 158+00.00

R/W



**SOMBRAS
DITCH**

Temp SHOOFLY

NATIONAL TRAILS HIGHWAY
"SD" LINE 162

"SS" LINE

R/W

R/W

R/W

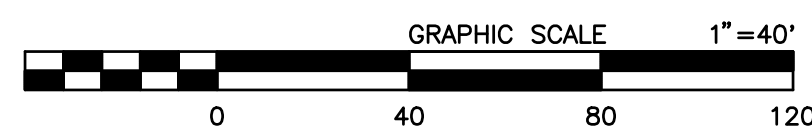
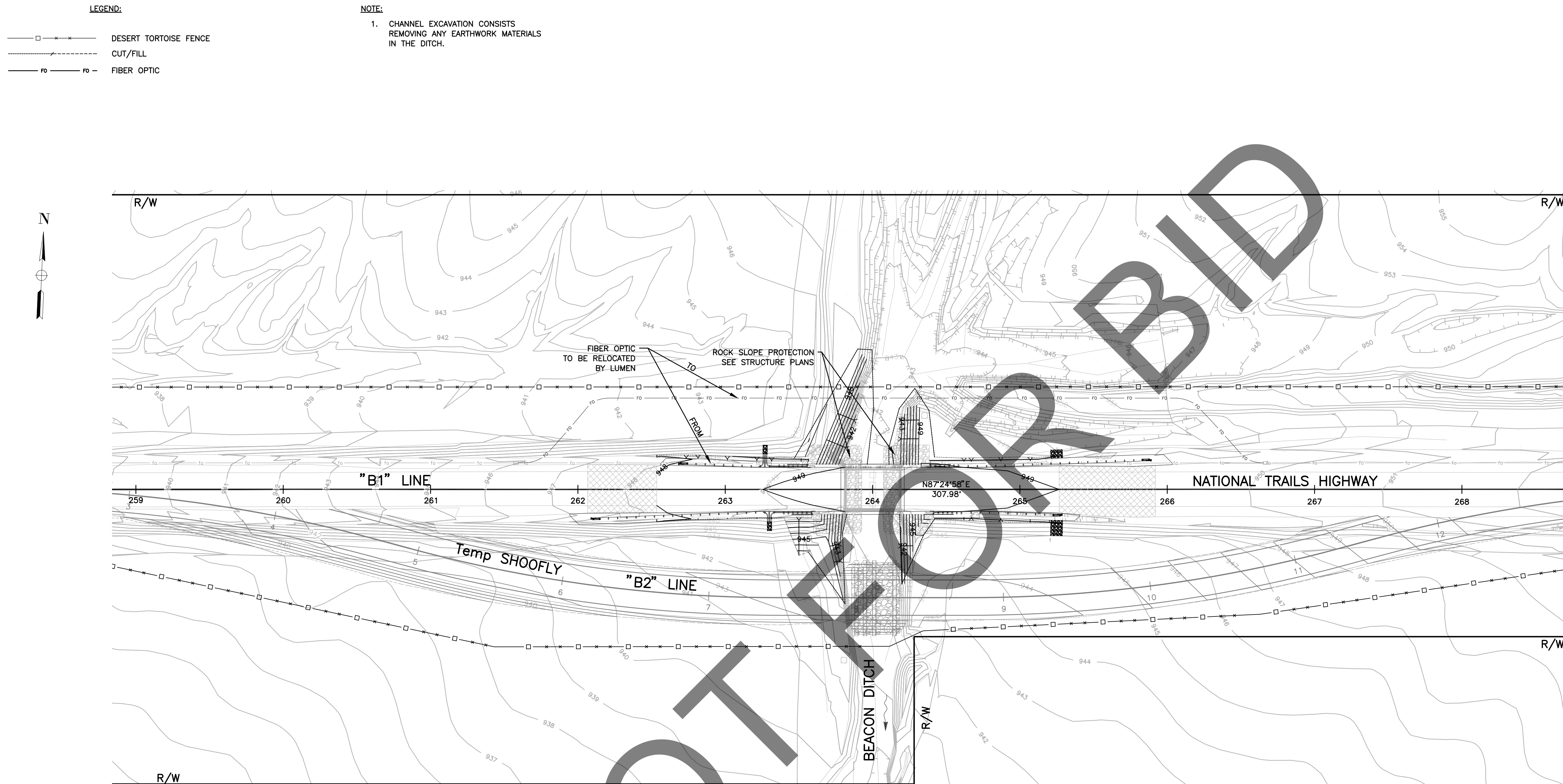
NOTE:

1. CHANNEL EXCAVATION CONSISTS REMOVING ANY EARTHWORK MATERIALS IN THE DITCH.

LEGEND:

—— DESERT TORTOISE FENCE
---- CUT/FILL
FO — FIBER OPTIC

G-15



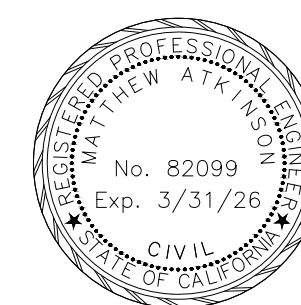
PREPARED BY:



110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA. 916-858-0642

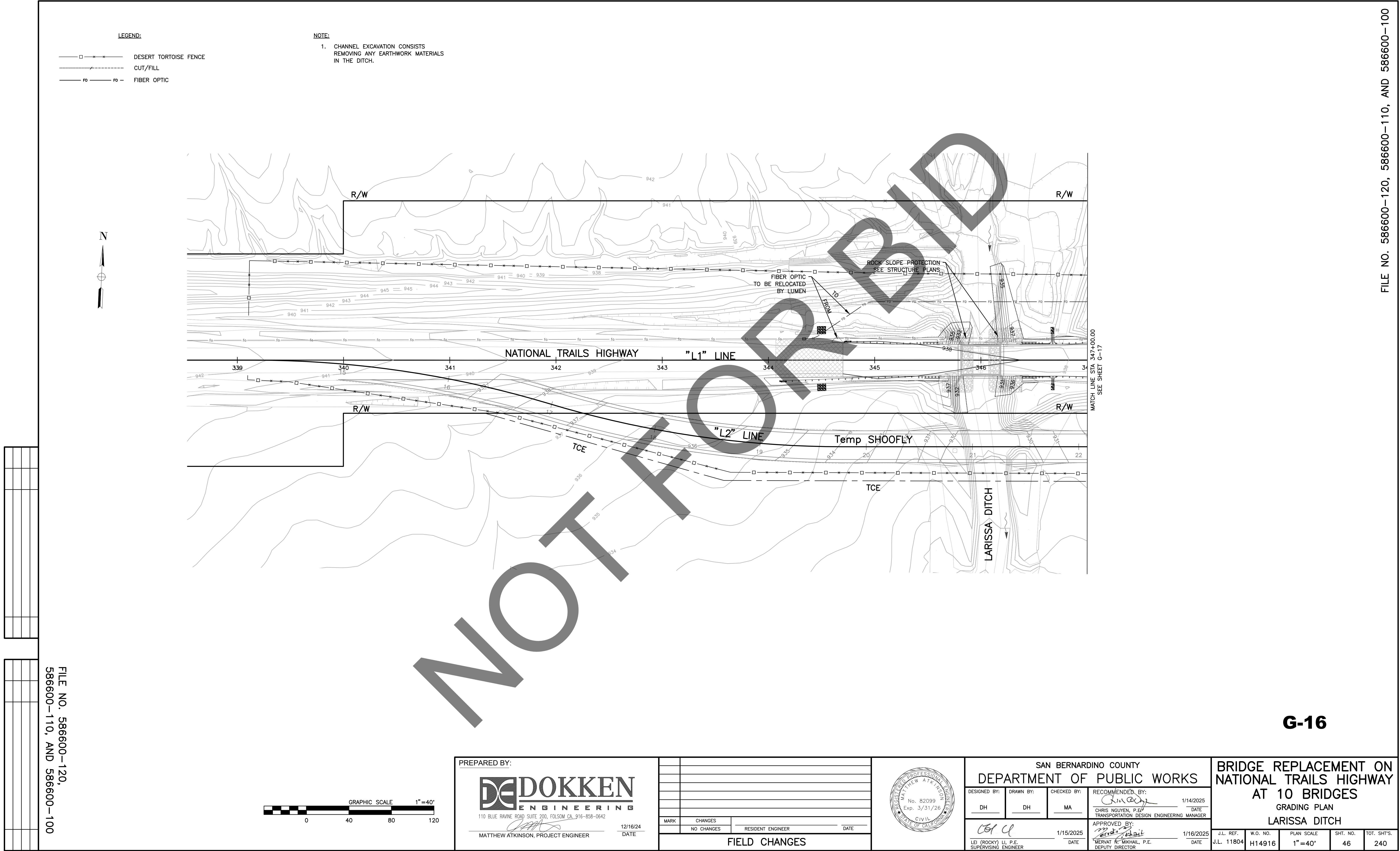
MATTHEW ATKINSON, PROJECT ENGINEER


12/16/24
DATE

[illegible]

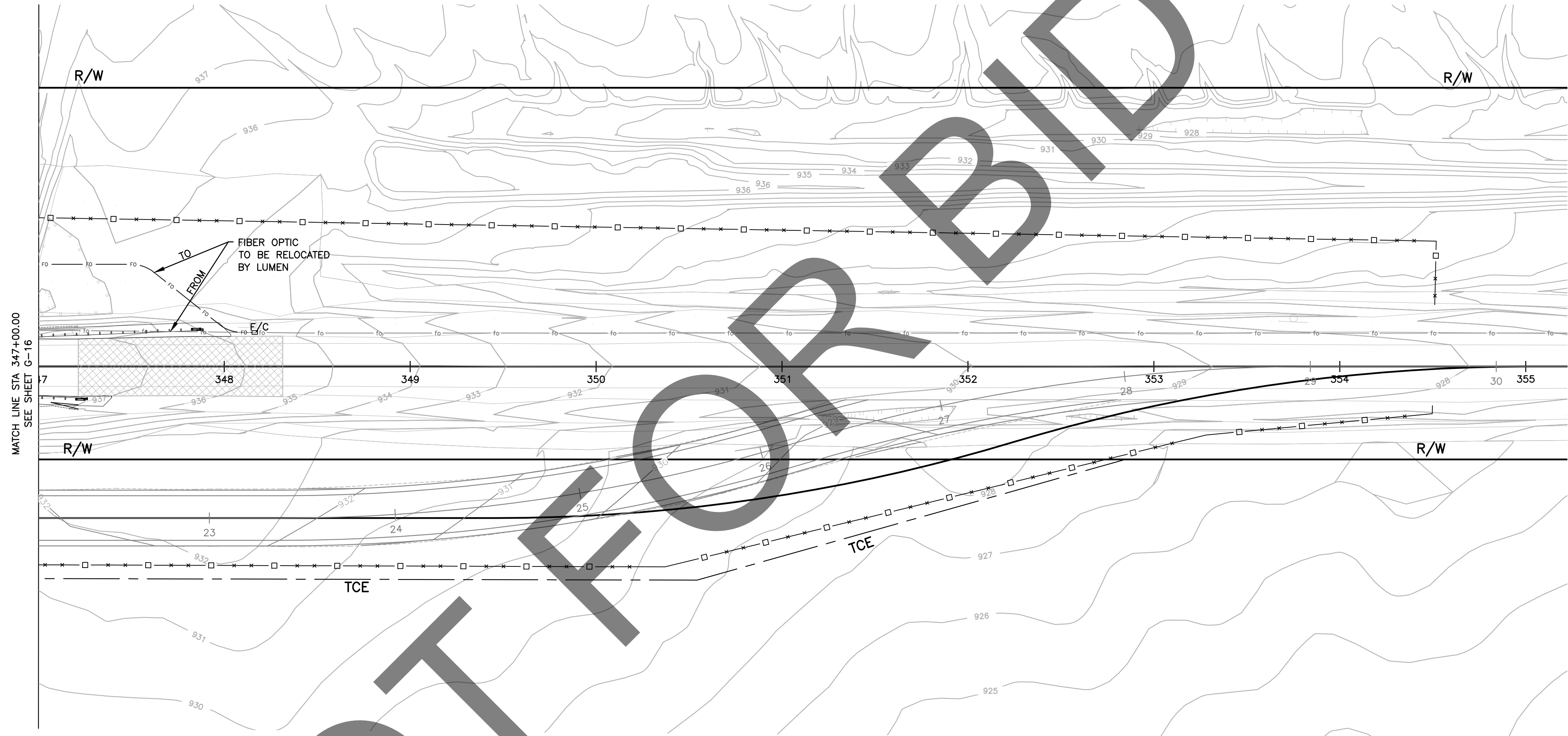
SAN BERNARDINO COUNTY			
DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	<i>Chris Nguyen</i>
			CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER
1/14/20		1/14/20	
LEI (ROCKY) LI, P.E. REGISTERED ENGINEER		1/15/2025	DATE
		DATE	1/16/2025
		DATE	DATE

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES CONTOUR GRADING BEACON DITCH				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11801	H14913	1" = 40'	45	240




 DESERT TORTOISE FENCE
 CUT/FILL
 FIBER OPTIC

1. CHANNEL EXCAVATION CONSISTS REMOVING ANY EARTHWORK MATERIALS IN THE DITCH.



MATCH LINE STA 347+00.00
SEE SHEET G-16

R/W



R/W

R/W

R/W

DOKKEN
ENGINEERING
110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA 916-858-0642
Matthew Atkinson
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/2011
DATE

[illegible]

SAN BERNARDINO COUNTY			
DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
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DATE	DATE	DATE	DATE
			1/14/2025
			CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER
			APPROVED BY:
<div style="border: 1px solid black; height: 40px; width: 100%;"></div>			<div style="border: 1px solid black; height: 40px; width: 100%; text-align: center;">  </div>
DATE			DATE
1/15/2025			1/16/2025
LEI (ROCKY) L. P.E. SUPERVISING ENGINEER			MERVAT K. MERVAT, P.E. DEPUTY DIRECTOR

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
GRADING PLAN
LARISSA DITCH

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11804	H14916	1" = 40'	47	240

FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

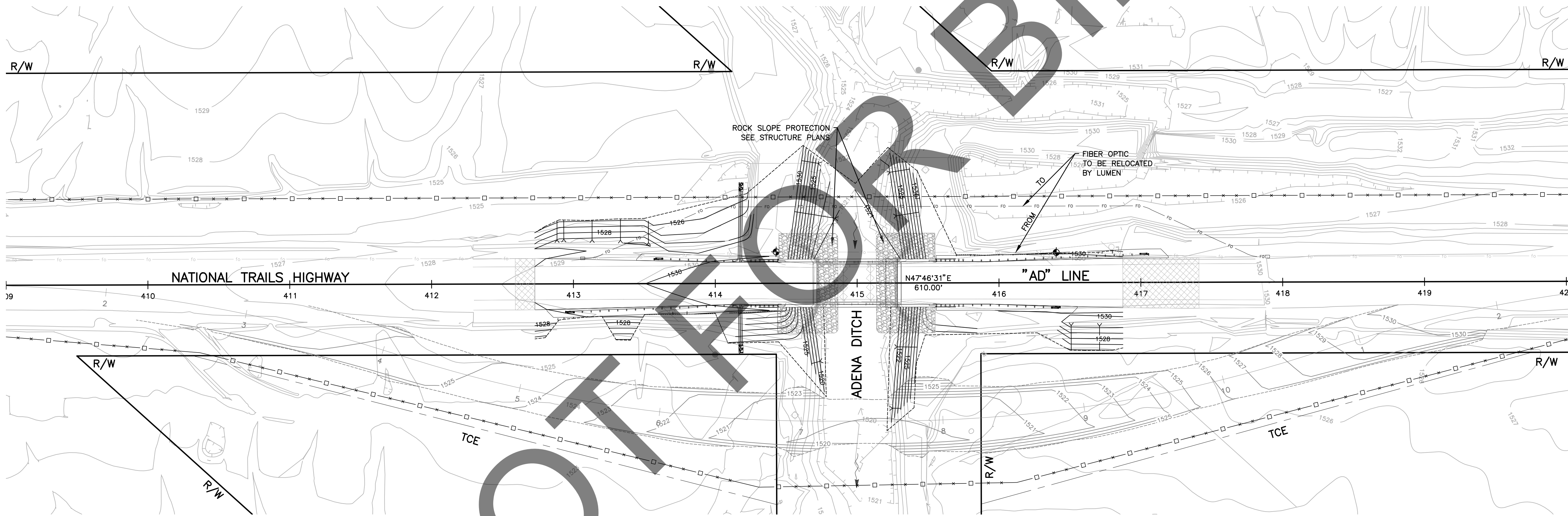
G-17

LEGEND:

- DESERT TORTOISE FENCE
CUT/FILL
FIBER OPTIC

NOTE:

1. CHANNEL EXCAVATION CONSISTS REMOVING ANY EARTHWORK MATERIALS IN THE DITCH.



G-18

PREPARED BY:

DOKKEN ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



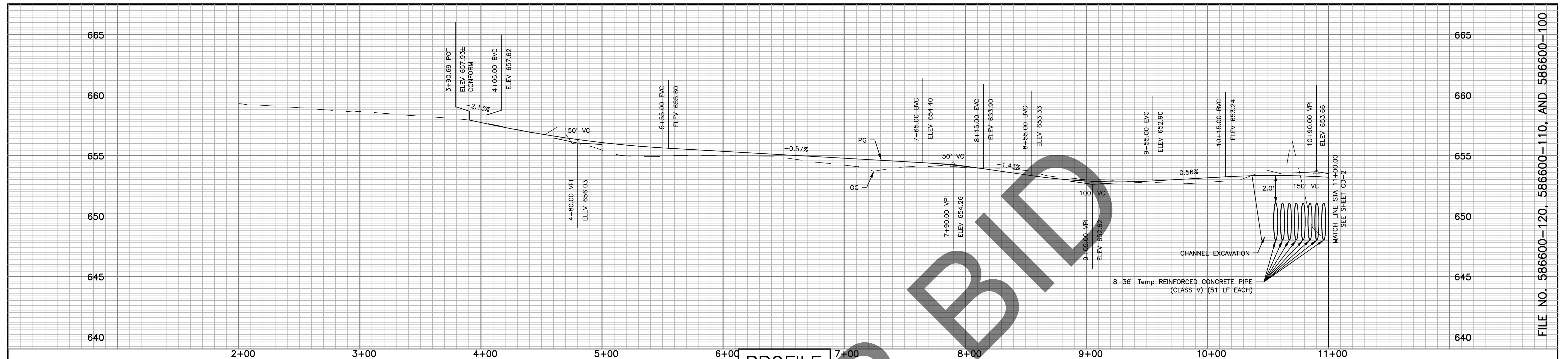
SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: MERVAT R. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE

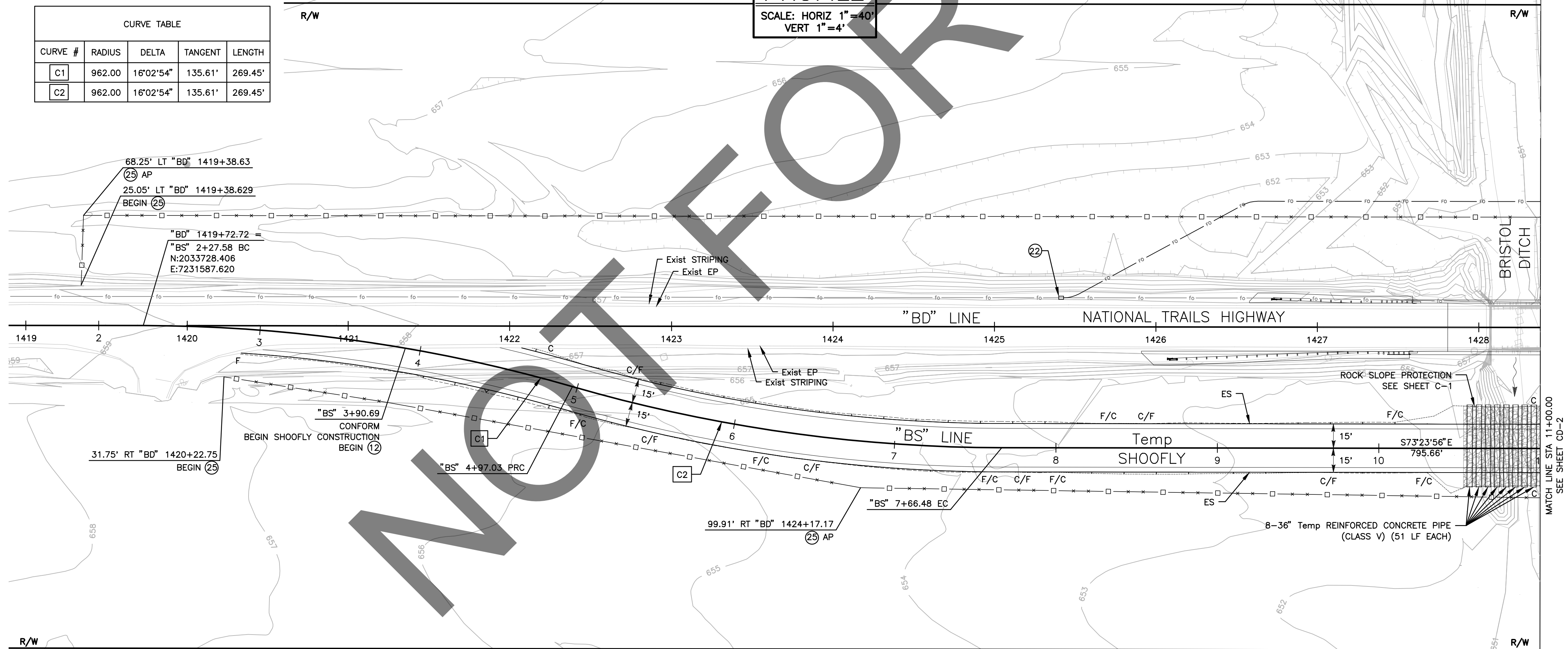
BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES

CONTOUR GRADING
ADENA DITCH

J.L. REF. J.L. 11797	W.O. NO. H14853	PLAN SCALE 1"=40'	SHT. NO. 48	TOT. SHT'S. 240
-------------------------	--------------------	----------------------	----------------	--------------------



CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C1	962.00	16°02'54"	135.61'	269.45'
C2	962.00	16°02'54"	135.61'	269.45'



○	CONSTRUCTION NOTE
12	PLACE 1.25' CLASS 2 AGGREGATE BASE.
22	PULLOUT BOX PROTECT IN PLACE.
25	PLACE DESERT TORTOISE FENCE.

NOTE:

1. Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.

CD-1

PREPARED BY:



110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/16/24
DATE

[illegible]

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:	1/14/2025
DH	DH	MA	CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER	DATE
1/15/2025		APPROVED BY:		
LEI (ROCKY) U, P.E. SUPERVISOR		MERVAT K. MIKHAIL, P.E. GENERAL MANAGER		
DATE		DATE		

**BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
PLAN AND PROFILE (SHOOFLY)
BRISTOL DITCH**

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11798	H14910	1"=40'	49	240

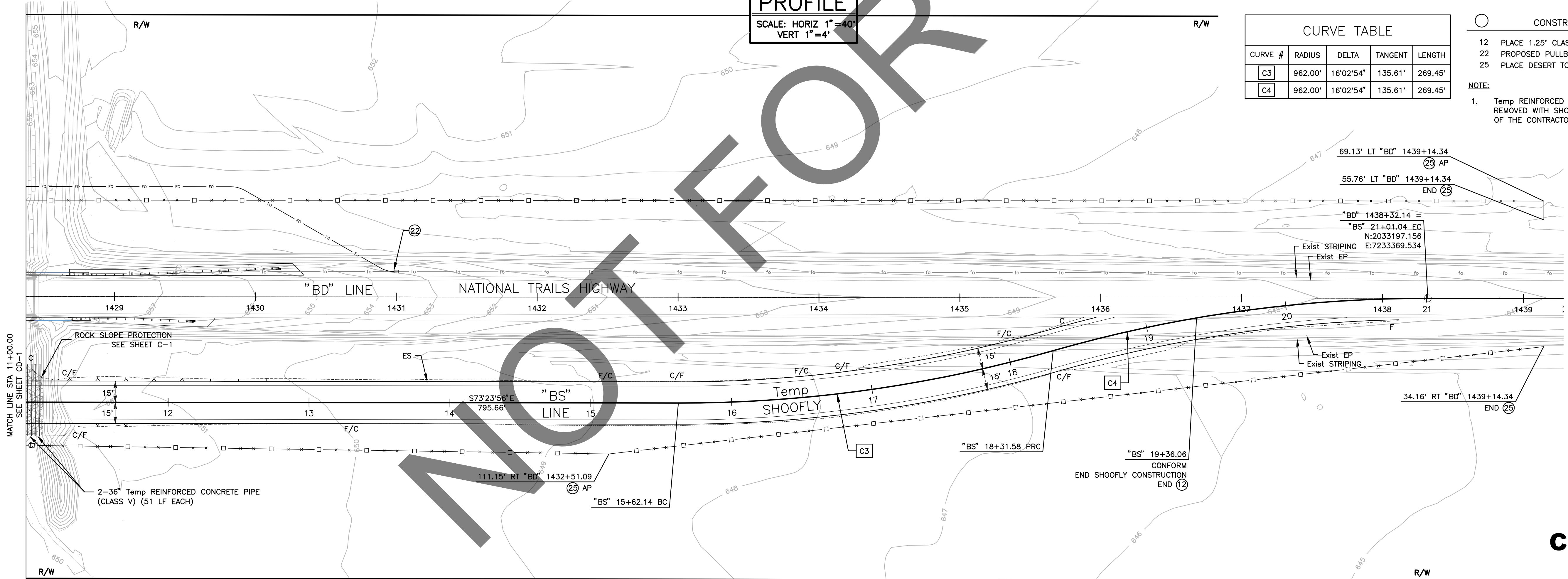
FILE NO. 586600-120,
586600-110, AND 586600-100



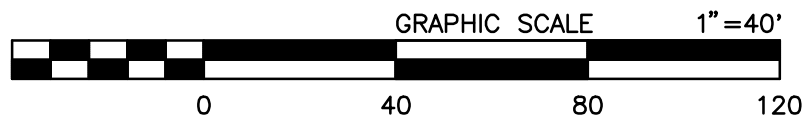
PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C3	962.00'	16°02'54"	135.61'	269.45'
C4	962.00'	16°02'54"	135.61'	269.45'

- CONSTRUCTION NOTE
- PLACE 1.25" CLASS 2 AGGREGATE BASE.
 - PROPOSED PULLBOX PROTECT IN PLACE.
 - PLACE DESERT TORTOISE FENCE.
- NOTE:
- Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.



CD-2



PREPARED BY:

DOKKEN ENGINEERING
110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA 916-858-0642

12/16/24
DATE

MATTHEW ATKINSON, PROJECT ENGINEER

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



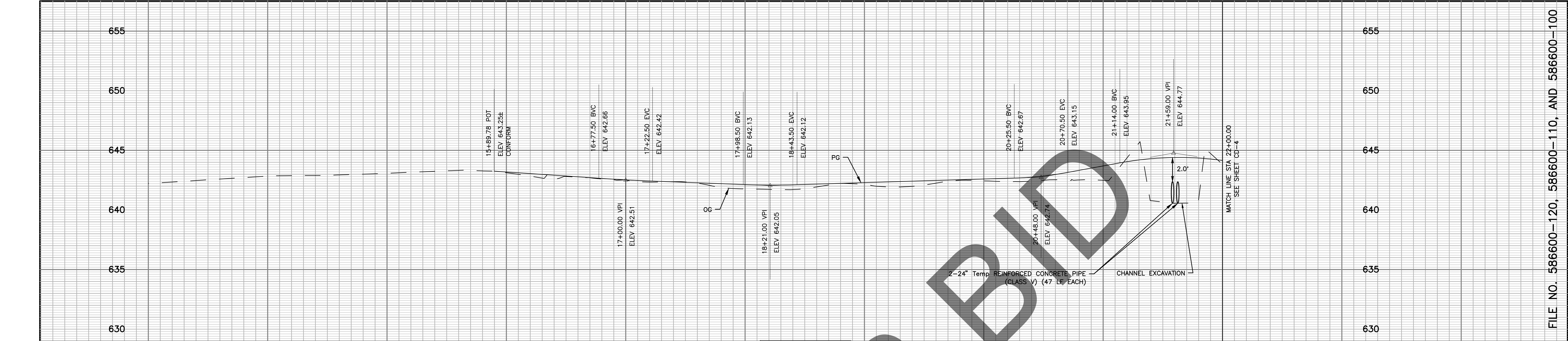
SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH
DRAWN BY: DH
CHECKED BY: MA
RECOMMENDED BY: 1/14/2025
DATE
CHRIS NGUYEN, P.E.
TRANSPORTATION DESIGN ENGINEERING MANAGER

APPROVED BY: 1/15/2025
DATE
LEI (ROCKY) LI, P.E.
SUPERVISING ENGINEER

1/16/2025
DATE
MERVAT N. MIKHAEL, P.E.
DEPUTY DIRECTOR

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE (SHOOFLY) BRISTOL DITCH				
J.L. REF. 11798	W.O. NO. H14910	PLAN SCALE 1"=40'	SHT. NO. 50	TOT. SHT'S. 240



FILE NO. 586600-120, 586600-110, AND 586600-100

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C1	962.00'	15°30'10"	130.95'	260.29'
C2	962.00'	15°30'10"	130.95'	260.29'

PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'

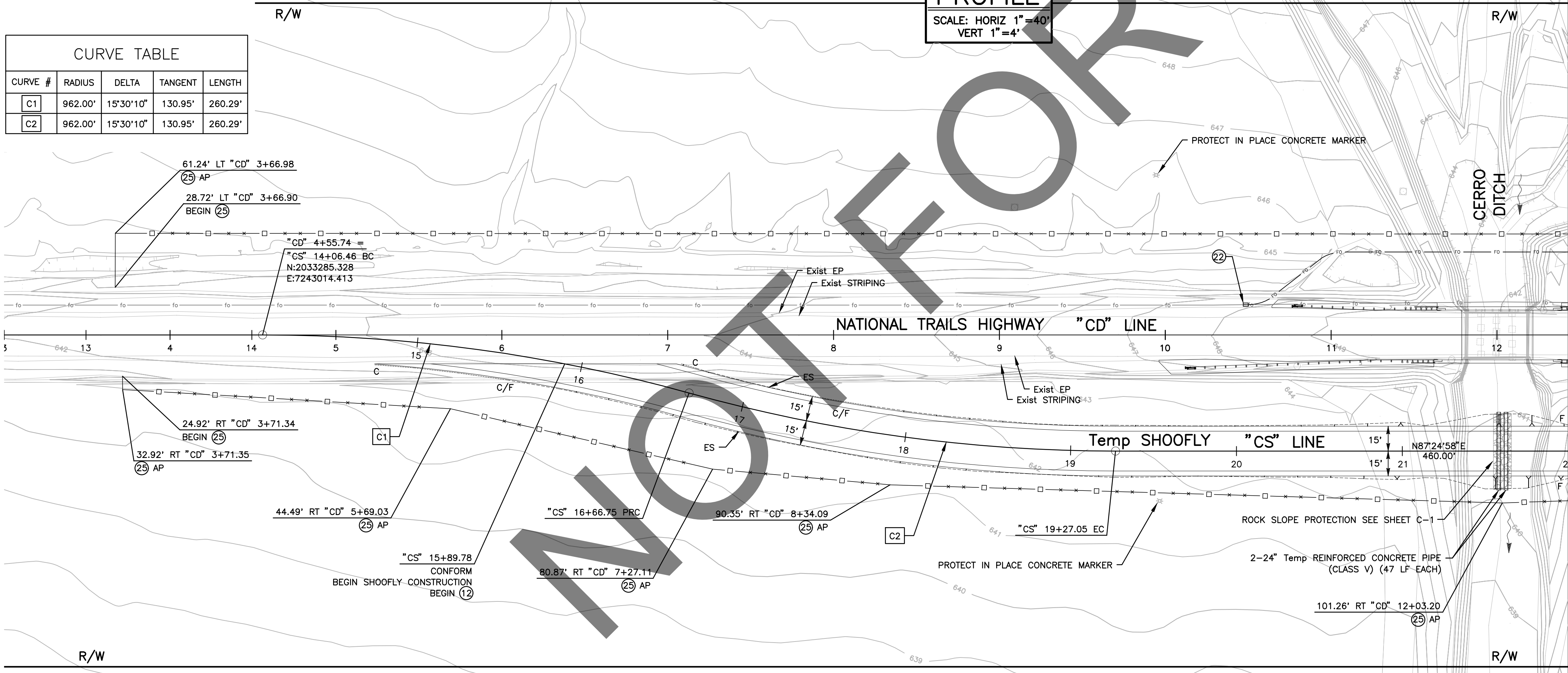
CONSTRUCTION NOTE
12 PLACE 1.25' CLASS 2 AGGREGATE BASE.
22 PROPOSED PULLBOX PROTECT IN PLACE.
25 PLACE DESERT TORTOISE FENCE.

NOTE:
1. Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.

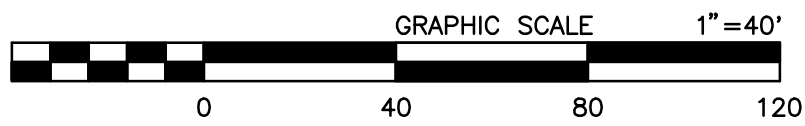
MARK	REVISIONS	DATE

MARK	REVISIONS	DATE

FILE NO. 586600-120,
586600-110, AND 586600-100



CD-3



PREPARED BY:

DOKKEN ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642

Matthew Atkinson, Project Engineer

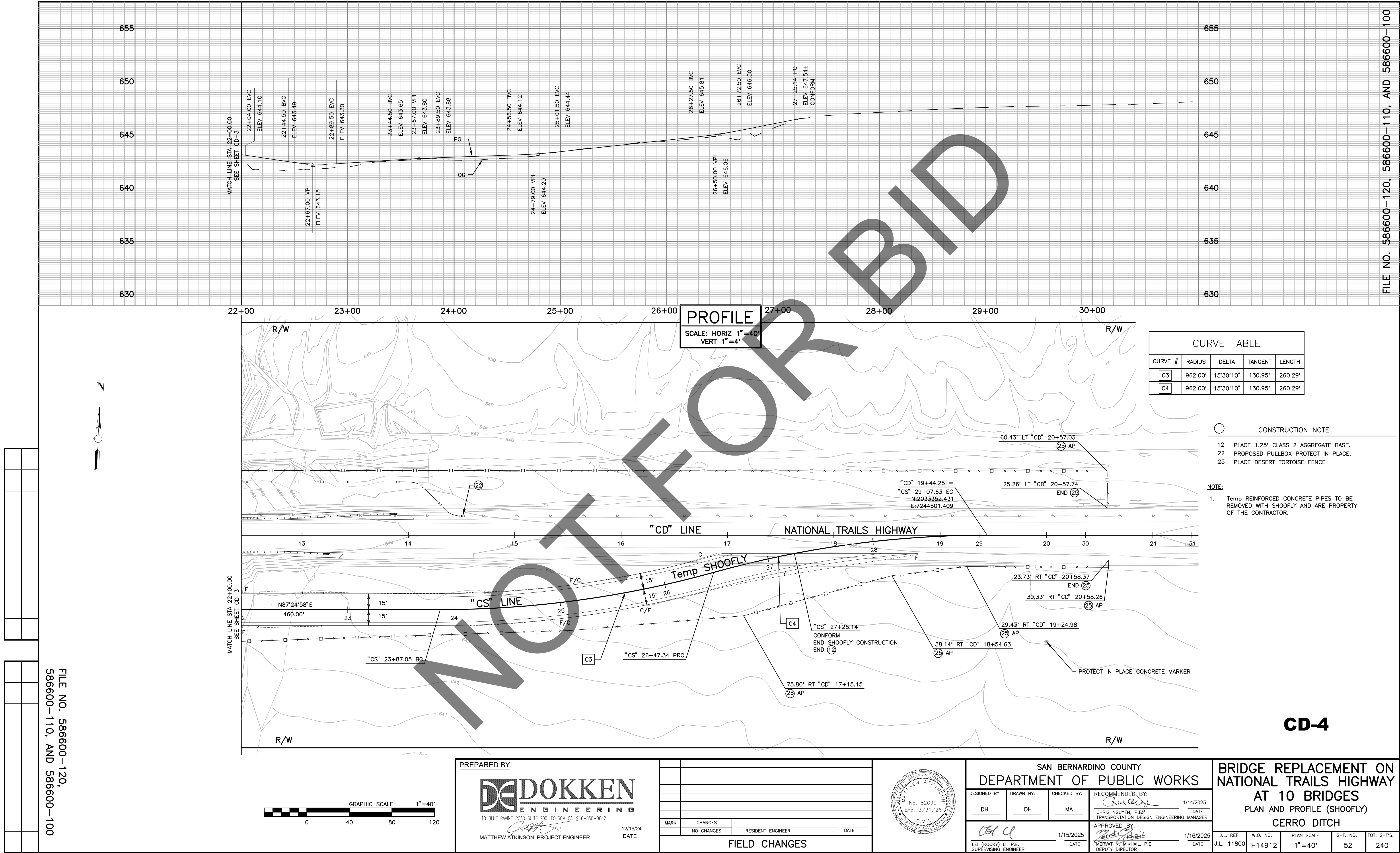
12/16/24 DATE

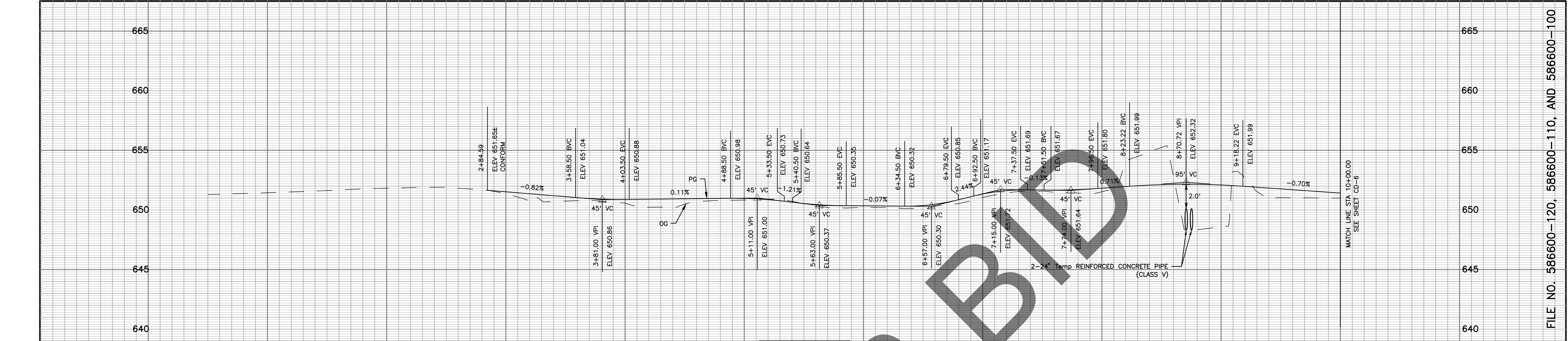
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



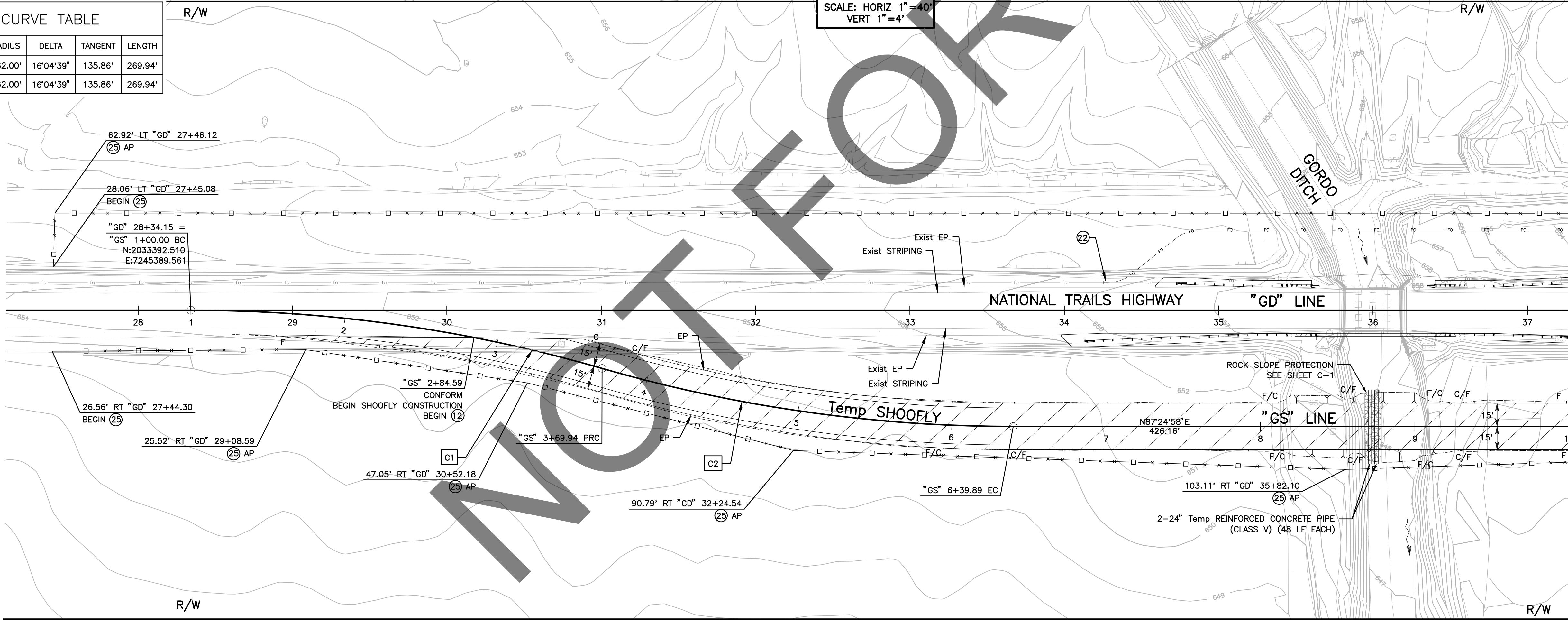
SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: 1/14/2025
LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER			APPROVED BY: 1/16/2025
DATE			DATE

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE (SHOOFLY) CERRO DITCH			
J.L. REF. J.L. 11800	W.O. NO. H14912	PLAN SCALE 1"=40'	SHT. NO. 51
TOT. SHT'S. 240			



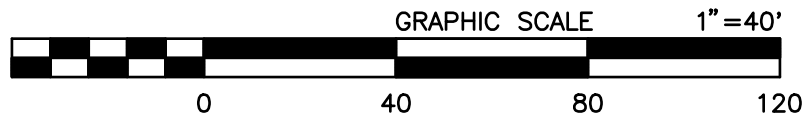


CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C1	962.00'	16°04'39"	135.86'	269.94'
C2	962.00'	16°04'39"	135.86'	269.94'



- CONSTRUCTION NOTE
- 12 PLACE 1.25' CLASS 2 AGGREGATE BASE.
 - 22 PROPOSED PULLBOX PROTECT IN PLACE.
 - 25 PLACE DESERT TORTOISE FENCE.
- NOTE:
- 1. Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.

FILE NO. 586600-120,
586600-110, AND 586600-100



PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA, 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/16/24 DATE

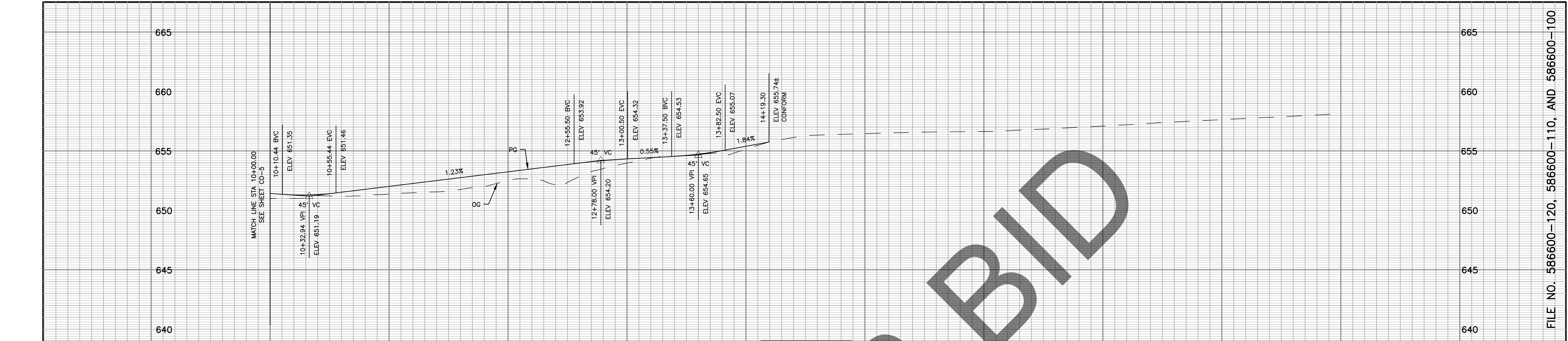
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



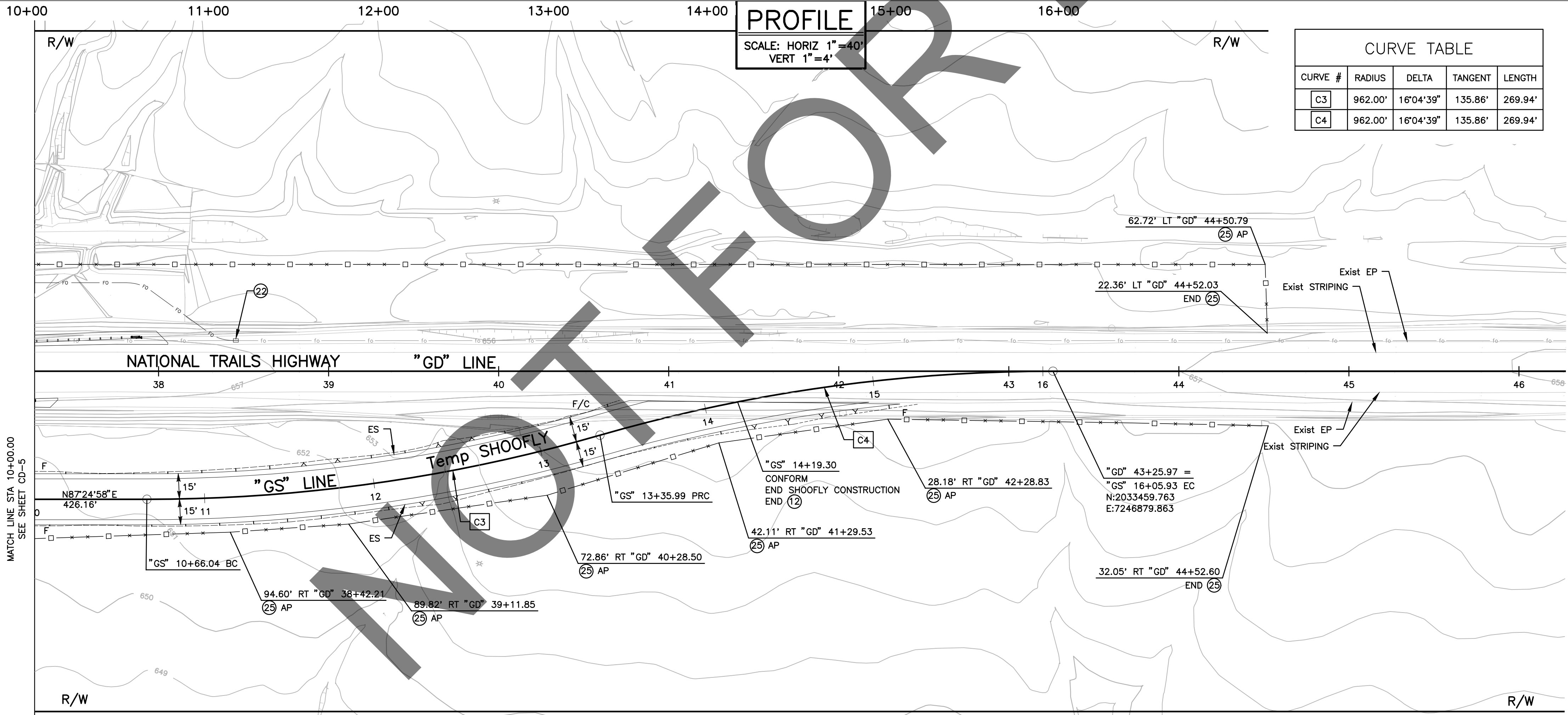
SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER	1/15/2025 DATE		APPROVED BY: Mervat N. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE (SHOOFLY) GORDO DITCH			
J.L. REF. J.L. 11805	W.O. NO. H14917	PLAN SCALE 1"=40'	SHT. NO. 53
		TOT. SHT'S. 240	

CD-5



FILE NO. 586600-120, 586600-110, AND 586600-100

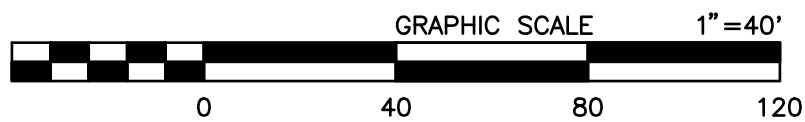


CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C3	962.00'	16°04'39"	135.86'	269.94'
C4	962.00'	16°04'39"	135.86'	269.94'

- CONSTRUCTION NOTE
- 12 PLACE 1.25' CLASS 2 AGGREGATE BASE.
 - 22 PROPOSED PULLBOX PROTECT IN PLACE.
 - 25 PLACE DESERT TORTOISE FENCE.

NOTE:

1. Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.



PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/16/24 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: Mervat K. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE			

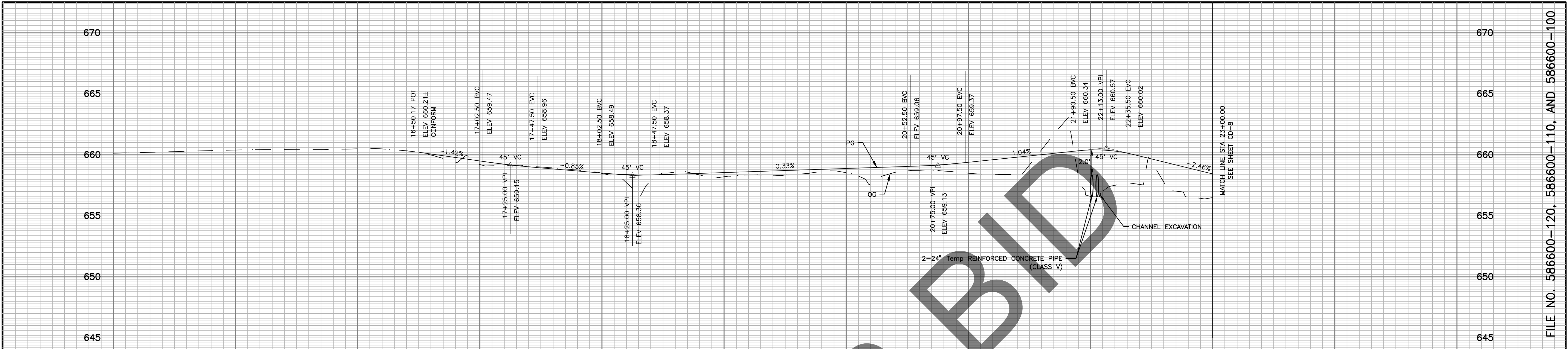
LEI (ROCKY) LI, P.E.
SUPERVISING ENGINEER

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
PLAN AND PROFILE (SHOOFLY)
GORDO DITCH

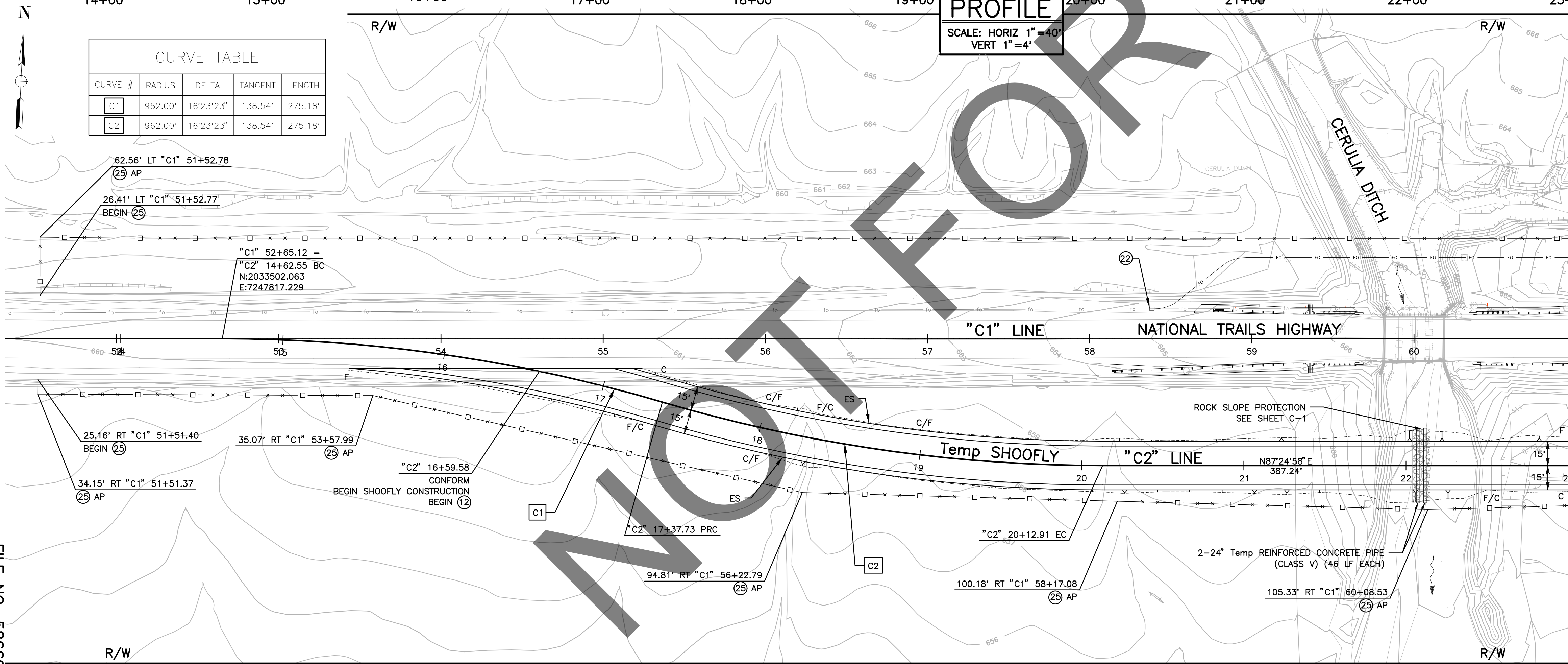
J.L. REF. J.L. 11805	W.O. NO. H14917	PLAN SCALE 1"=40'	SHT. NO. 54	TOT. SHT'S. 240
-------------------------	--------------------	----------------------	----------------	--------------------

FILE NO. 586600-120,
586600-110, AND 586600-100

CD-6



FILE NO. 586600-120, 586600-110, AND 586600-100



CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C1	962.00'	16°23'23"	138.54'	275.18'
C2	962.00'	16°23'23"	138.54'	275.18'

PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'

- CONSTRUCTION NOTE
- 12 PLACE 1.25' CLASS 2 AGGREGATE BASE.
 - 22 PROPOSED PULLBOX PROTECT IN PLACE.
 - 25 PLACE DESERT TORTOISE FENCE.

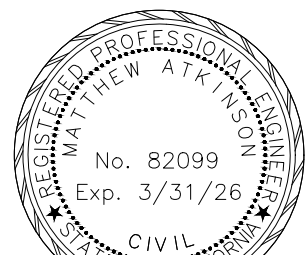
- NOTE:
- 1. Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.

CD-7

PREPARED BY:
DOKKEN ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24 DATE

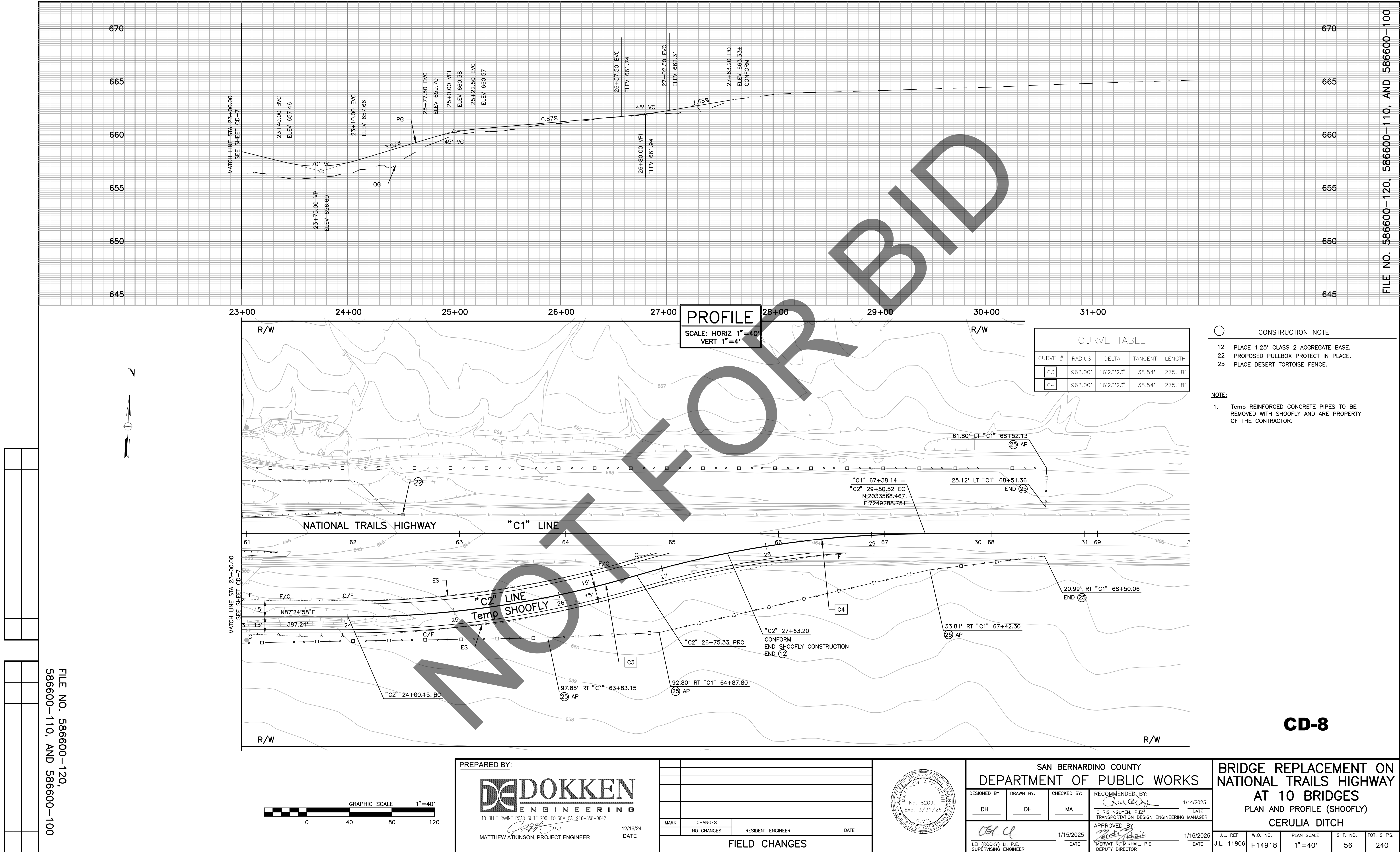
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

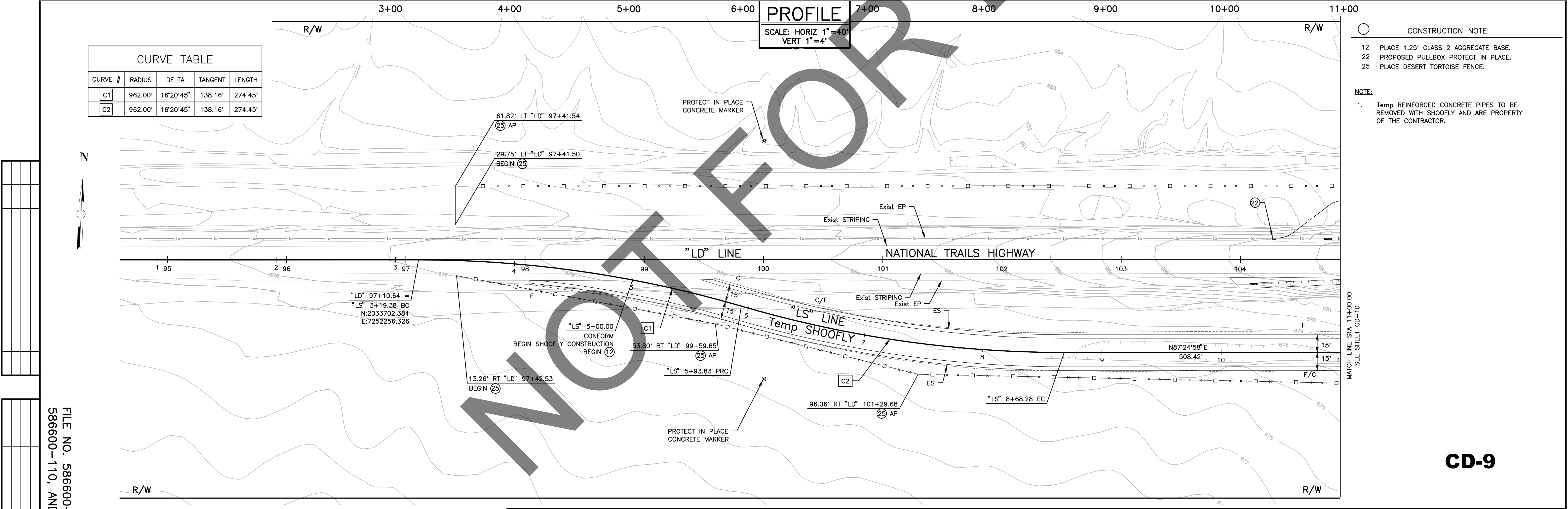
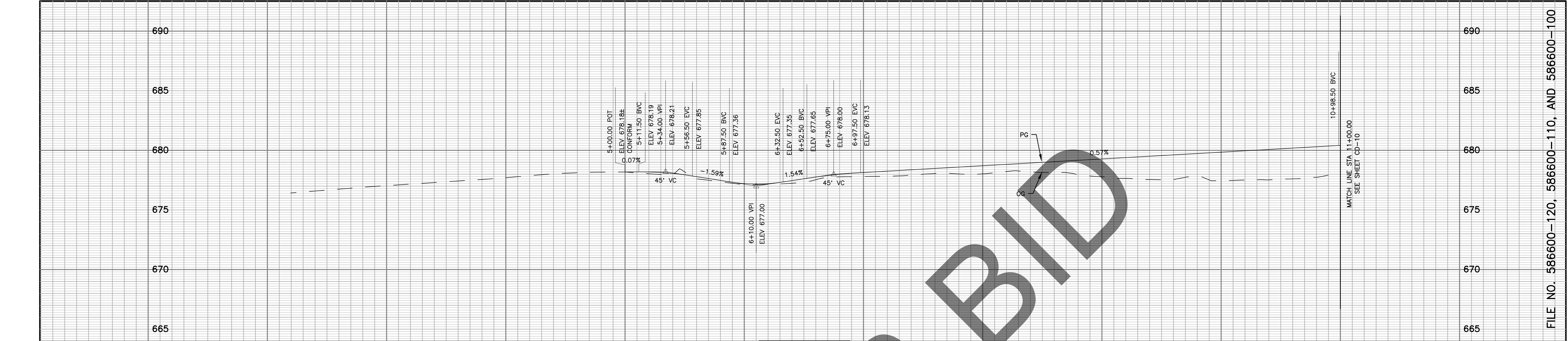
FIELD CHANGES



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: MERVAT K. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE (SHOOFLY) CERULIA DITCH			
J.L. REF. J.L. 11808	W.O. NO. H14918	PLAN SCALE 1"=40'	SHT. NO. 55
		TOT. SHT'S. 240	

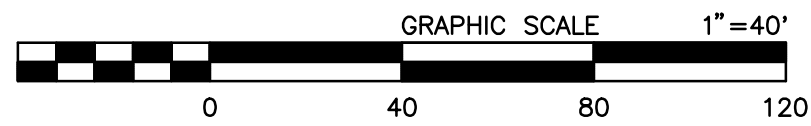




CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C1	962.00'	16°20'45"	138.16'	274.45'
C2	962.00'	16°20'45"	138.16'	274.45'

- CONSTRUCTION NOTE
- 12 PLACE 1.25' CLASS 2 AGGREGATE BASE.
 - 22 PROPOSED PULLBOX PROTECT IN PLACE.
 - 25 PLACE DESERT TORTOISE FENCE.
- NOTE:
- Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.

FILE NO. 586600-120,
586600-110, AND 586600-100



PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA. 916-858-0642

12/16/24 DATE

MATTHEW ATKINSON, PROJECT ENGINEER

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



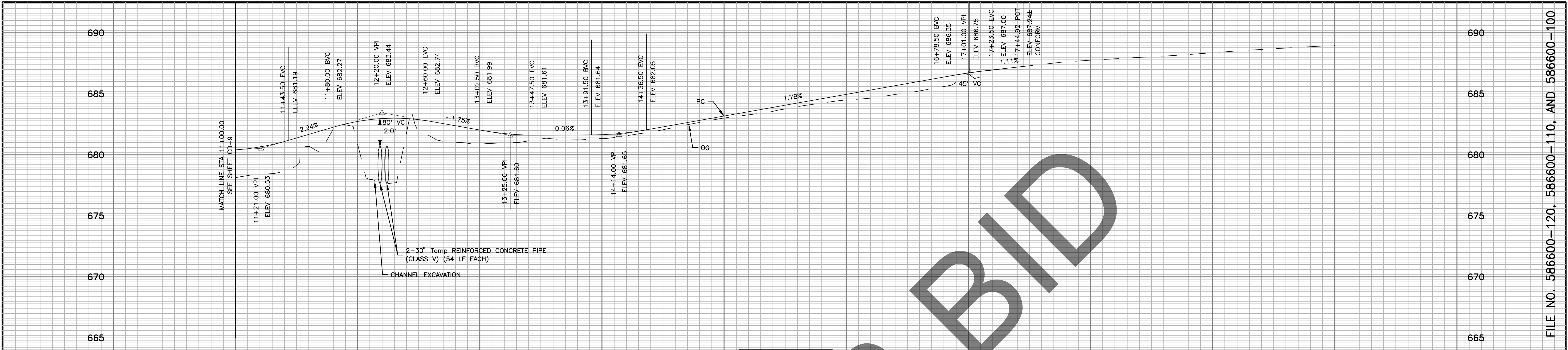
SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: Mervat K. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
PLAN AND PROFILE (SHOOFLY)
LEITH DITCH

J.L. REF. J.L. 11803	W.O. NO. H14915	PLAN SCALE 1"=40'	SHT. NO. 57	TOT. SHT'S. 240
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CD-9

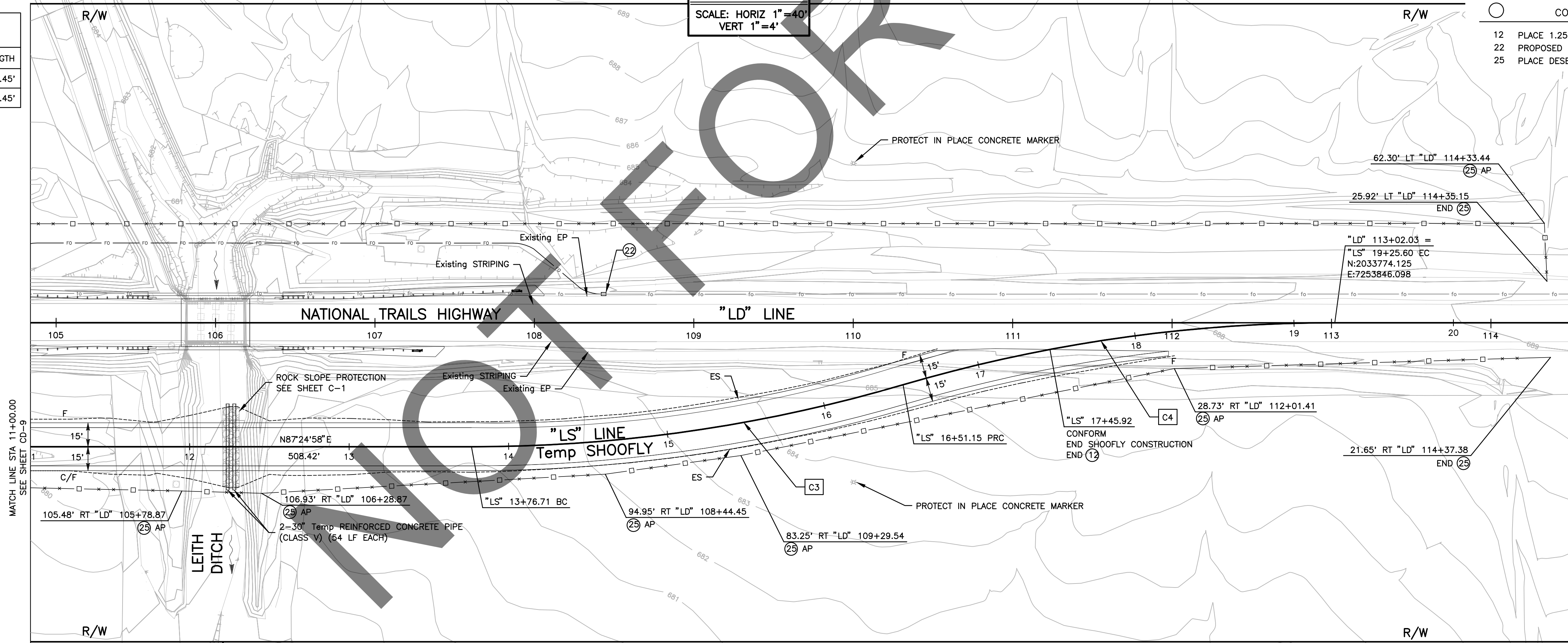


CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C3	962.00'	16°20'45"	138.16'	274.45'
C4	962.00'	16°20'45"	138.16'	274.45'

PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'

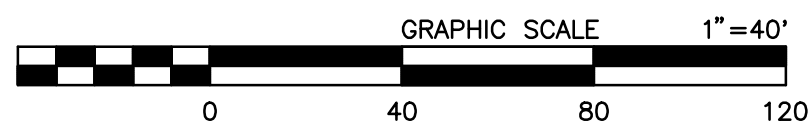
	CONSTRUCTION NOTE
12	PLACE 1.25' CLASS 2 AGGREGATE BASE.
22	PROPOSED PULLBOX PROTECT IN PLACE.
25	PLACE DESERT TORTOISE FENCE.

- NOTE:
- Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.



CD-10

FILE NO. 586600-120,
586600-110, AND 586600-100



PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642

12/16/24 DATE

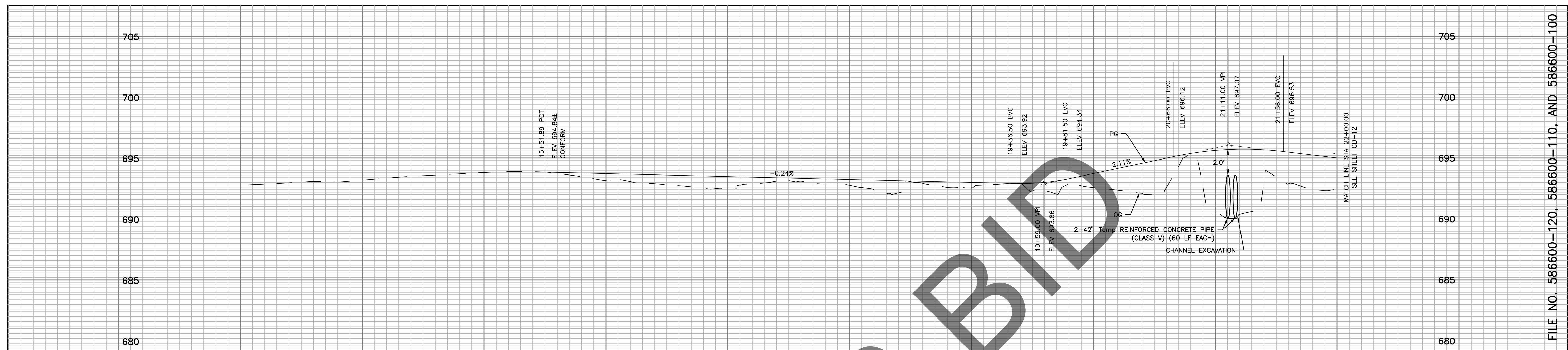
MATTHEW ATKINSON, PROJECT ENGINEER

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			

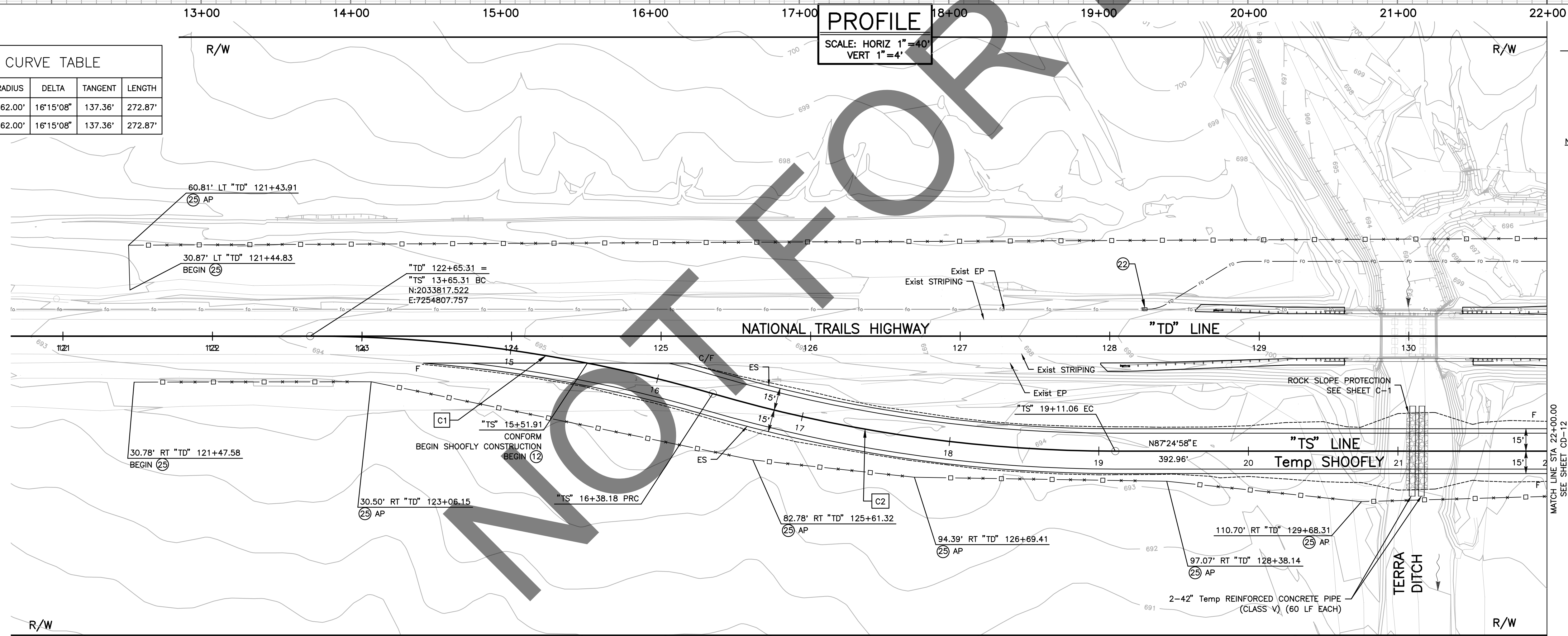


SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: 1/14/2025 DATE CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER
APPROVED BY: 1/15/2025 DATE LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER	APPROVED BY: 1/16/2025 DATE MERVAT K. MIKHAIL, P.E. DEPUTY DIRECTOR		

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE (SHOOFLY) LEITH DITCH			
J.L. REF. J.L. 11803	W.O. NO. H14915	PLAN SCALE 1"=40'	SHT. NO. 58
		TOT. SHT'S. 240	



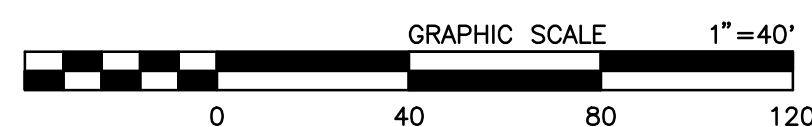
CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C1	962.00'	16°15'08"	137.36'	272.87'
C2	962.00'	16°15'08"	137.36'	272.87'



- | ○ | CONSTRUCTION NOTE |
|----|-------------------------------------|
| 12 | PLACE 1.25' CLASS 2 AGGREGATE BASE. |
| 22 | PROPOSED PULLBOX PROTECT IN PLACE. |
| 25 | PLACE DESERT TORTOISE FENCE. |

NOTE:

1. Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.

CD-11

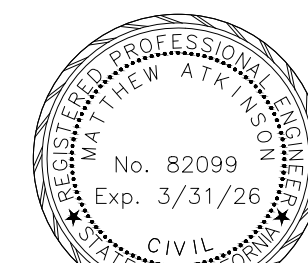
PREPARED BY:

DOKKEN
ENGINEERING

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

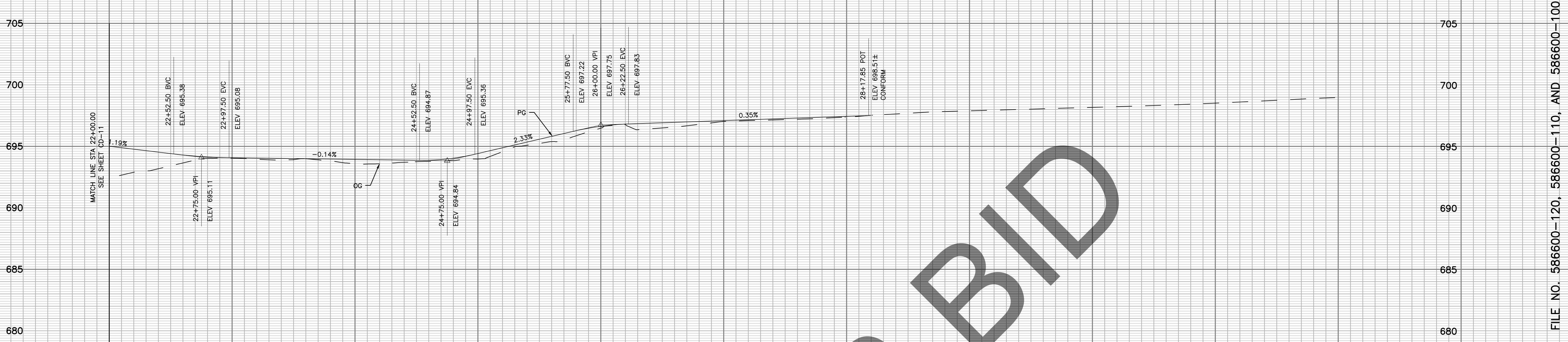
Matthew Atkinson
MATTHEW ATKINSON, PROJECT ENGINEER

12/16/24
DATE

[illegible]

SAN BERNARDINO COUNTY				
DEPARTMENT OF PUBLIC WORKS				
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:	1/14/2025
DH	DH	MA	CHRIS NGUYEN, P.E. TRANSFORMATION DESIGN ENGINEERING MANAGER	DATE
1/15/2025			APPROVED BY:	1/16/2025
LEI (ROCKY) LI, P.E. CIVIL ENGINEER			MERVAT N. MIKHAIL, P.E. CIVIL ENGINEER	DATE

<h1 style="text-align: center;">BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES</h1> <h2 style="text-align: center;">PLAN AND PROFILE (SHOOFLY) TERRA DITCH</h2>				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11802	H14914	1" = 40'	59	240



FILE NO. 586600-120, 586600-110, AND 586600-100

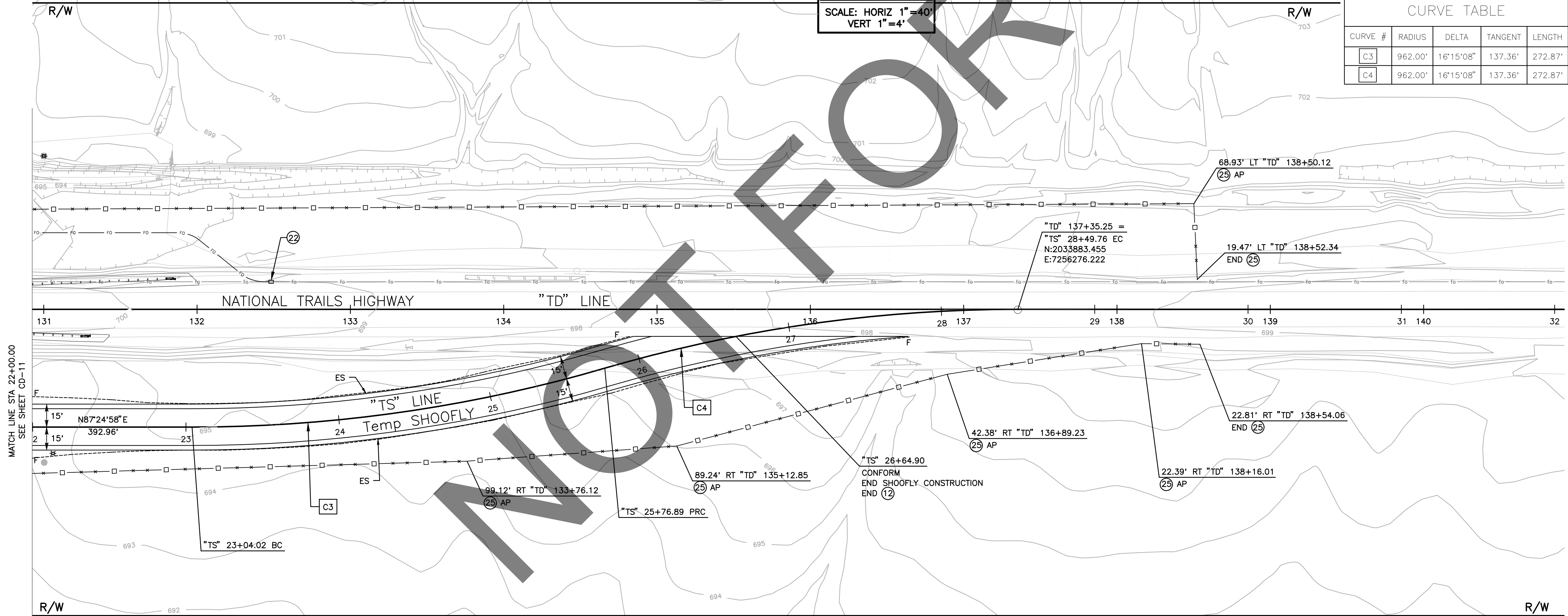


PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C3	962.00'	16°15'08"	137.36'	272.87'
C4	962.00'	16°15'08"	137.36'	272.87'

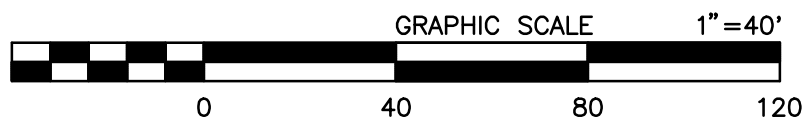
CONSTRUCTION NOTE	
12	PLACE 1.25' CLASS 2 AGGREGATE BASE.
22	PROPOSED PULLBOX PROTECT IN PLACE.
25	PLACE DESERT TORTOISE FENCE.

NOTE:
1. Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.



CD-12

FILE NO. 586600-120,
586600-110, AND 586600-100



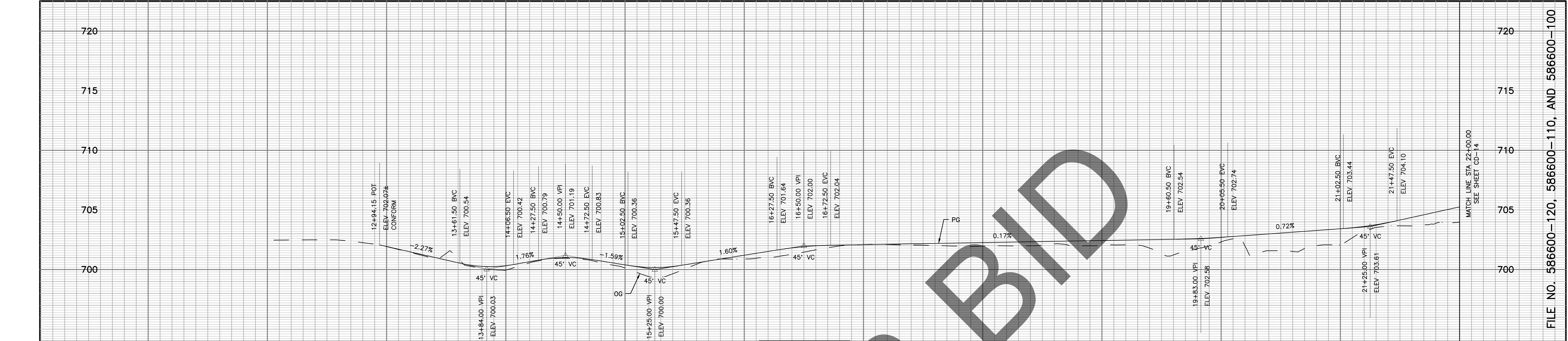
PREPARED BY:
DOKKEN ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			

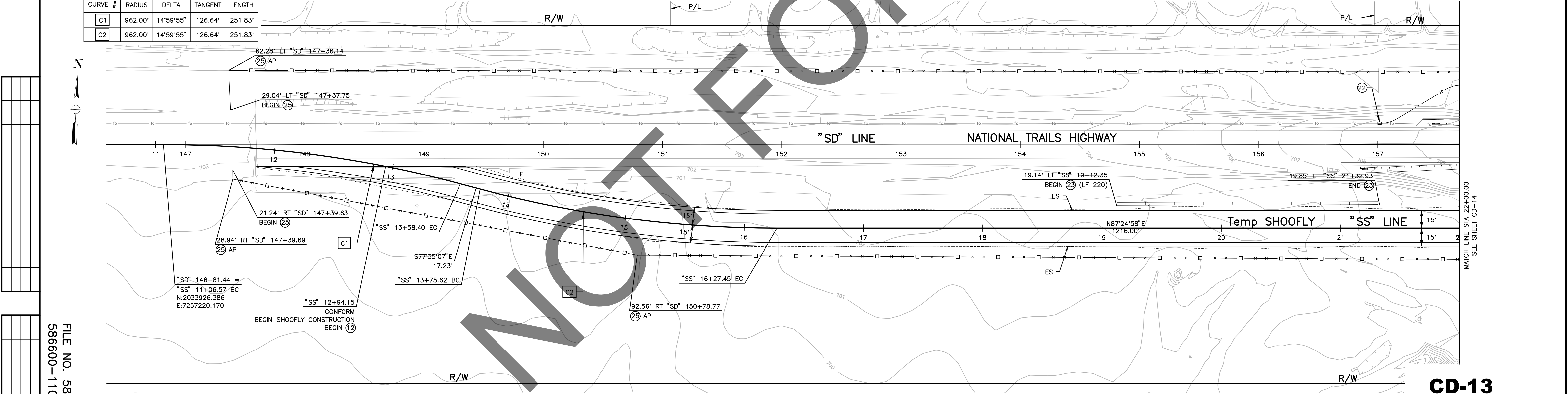


SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: Mervat R. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE

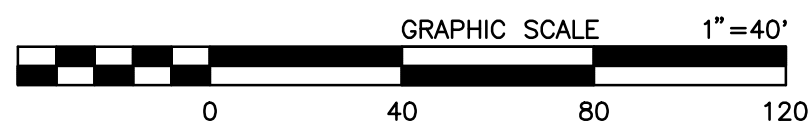
BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE (SHOOFLY) TERRA DITCH			
J.L. REF. J.L. 11802	W.O. NO. H14914	PLAN SCALE 1"=40'	TOT. SHT'S. 240



CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C1	962.00'	14°59'55"	126.64'	251.83'
C2	962.00'	14°59'55"	126.64'	251.83'



FILE NO. 586600-120,
586600-110, AND 586600-100



PREPARED BY:



MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

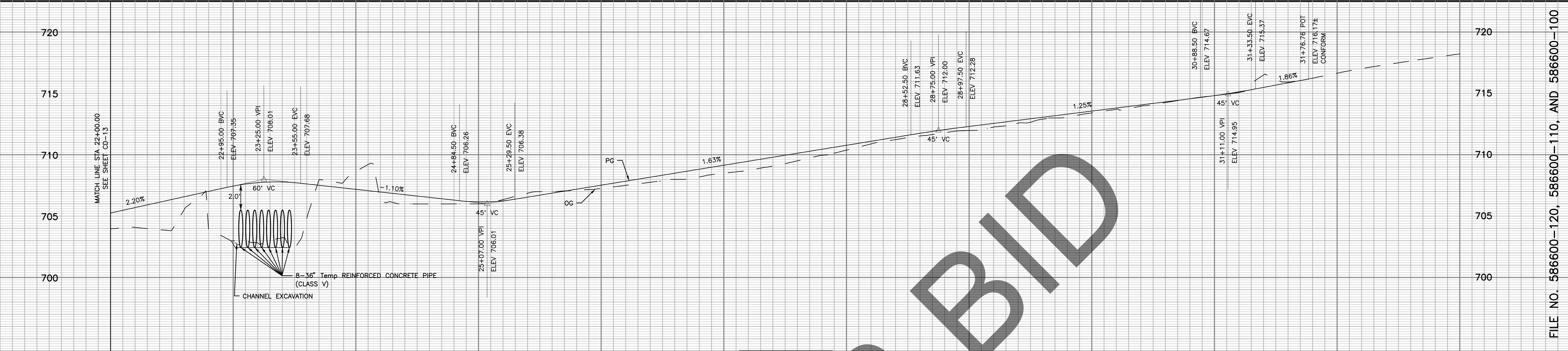
FIELD CHANGES		
MARK	CHANGES	DATE
	NO CHANGES	
	RESIDENT ENGINEER	



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE	APPROVED BY: MERVAT K. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE		

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE (SHOOFLY) SOMBRA DITCH			
J.L. REF. J.L. 11799	W.O. NO. H14911	PLAN SCALE 1"=40'	TOT. SHT'S. 240
SHT. NO. 61			

CD-13



FILE NO. 586600-120, 586600-110, AND 586600-100

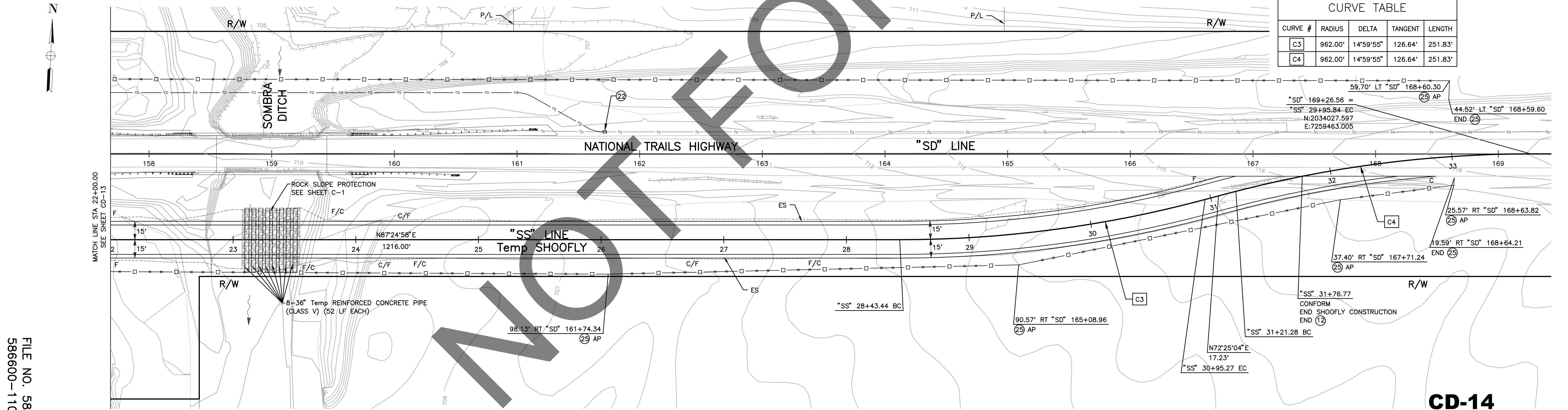
PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'

- NOTE:
- Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.

CONSTRUCTION NOTE

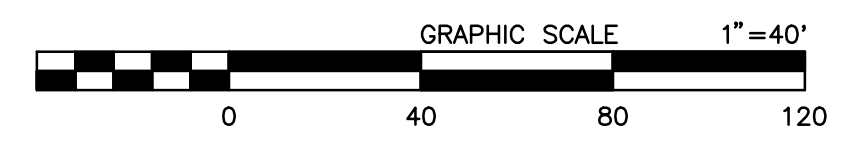
- PLACE 1.25' CLASS 2 AGGREGATE BASE.
- PROPOSED PULLBOX PROTECT IN PLACE.
- PLACE DESERT TORTOISE FENCE.

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C3	962.00'	14°59'55"	126.64'	251.83'
C4	962.00'	14°59'55"	126.64'	251.83'



CD-14

FILE NO. 586600-120,
586600-110, AND 586600-100



PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642

12/18/24 DATE

MATTHEW ATKINSON, PROJECT ENGINEER

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES

San Bernardino County
Department of Public Works

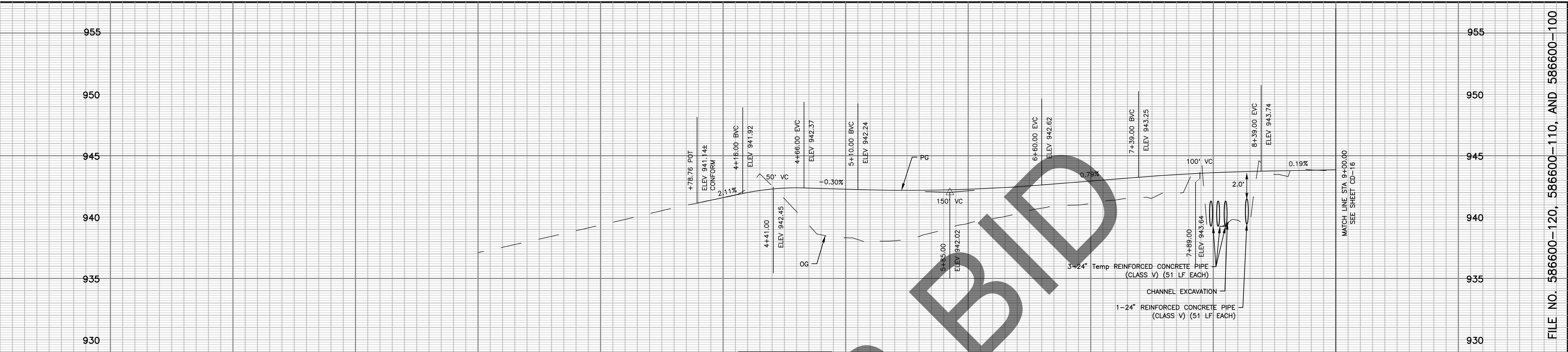
DESIGNED BY: DH
DRAWN BY: DH
CHECKED BY: MA
RECOMMENDED BY: Chris Nguyen, P.E., Transportation Design Engineering Manager
APPROVED BY: Mervat K. Mikhail, P.E., Deputy Director

1/15/2025 DATE

1/16/2025 DATE

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
PLAN AND PROFILE (SHOOFLY)
SOMBRA DITCH

J.L. REF. J.L. 11799	W.O. NO. H14911	PLAN SCALE 1"=40'	SHT. NO. 62	TOT. SHT'S. 240
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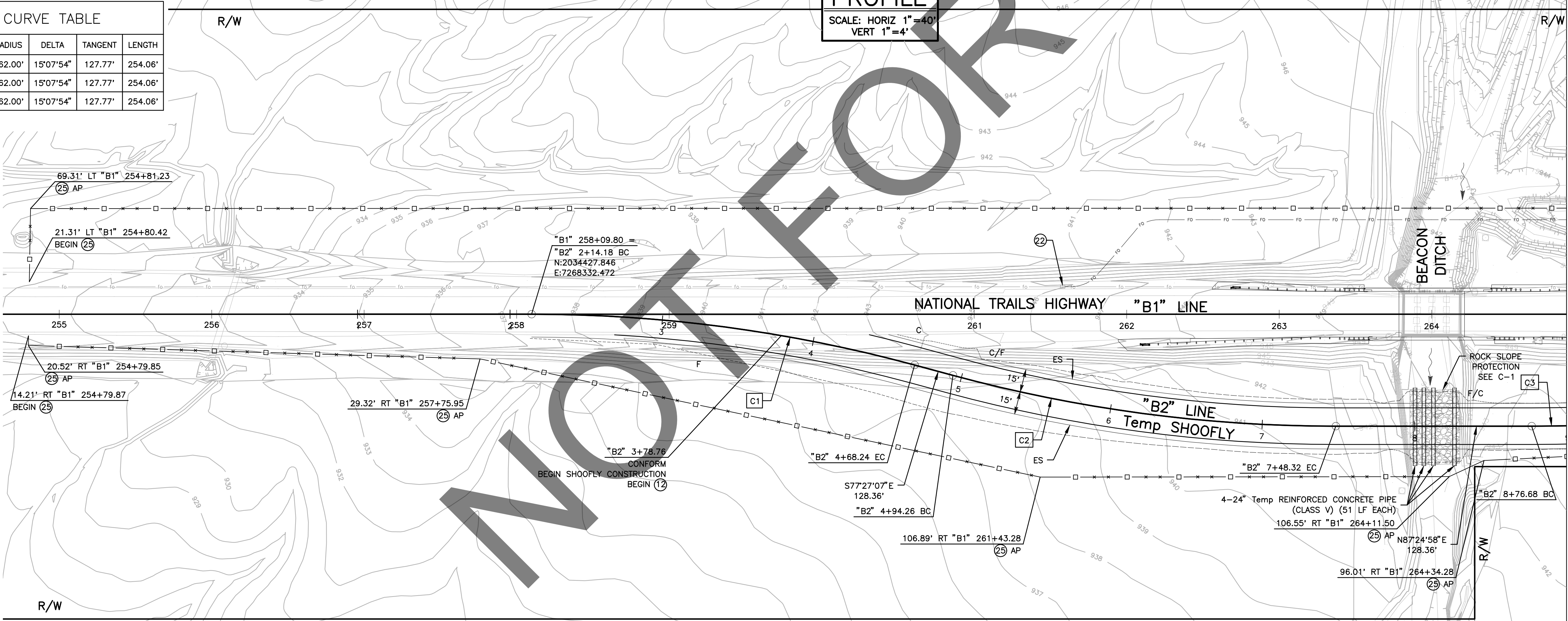


CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C1	962.00'	15°07'54"	127.77'	254.06'
C2	962.00'	15°07'54"	127.77'	254.06'
C3	962.00'	15°07'54"	127.77'	254.06'

PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'

- CONSTRUCTION NOTES
- 12 PLACE 1.25' CLASS 2 AGGREGATE BASE.
 - 22 PROPOSED PULLBOX PROTECT IN PLACE.
 - 25 PLACE DESERT TORTOISE FENCE.

NOTE:
1. Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.



FILE NO. 586600-120,
586600-110, AND 586600-100

CD-15

PREPARED BY:

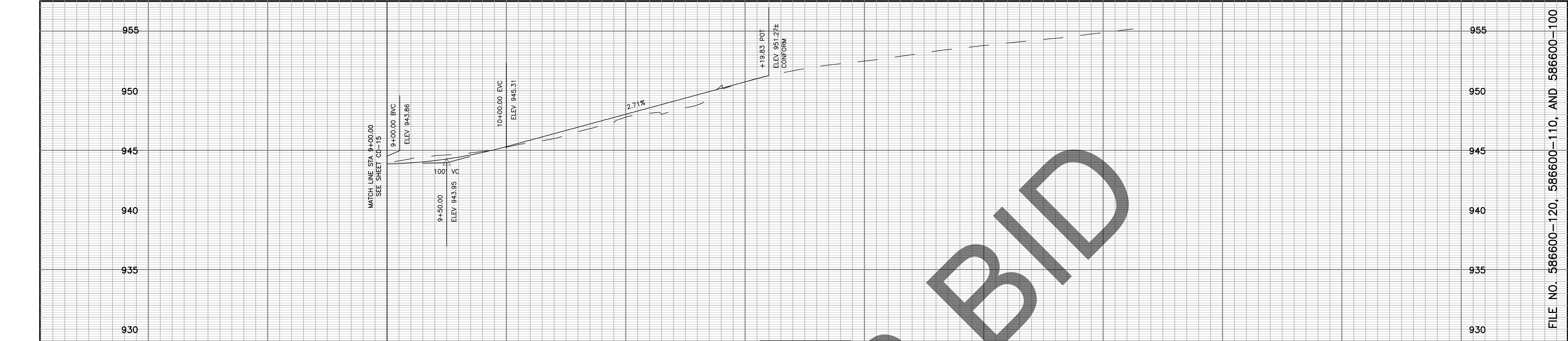
DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM CA, 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE	APPROVED BY: Mervat N. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE		

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE (SHOOFLY) BEACON DITCH				
J.L. REF. J.L. 11801	W.O. NO. H14913	PLAN SCALE 1"=40'	SHT. NO. 63	TOT. SHT'S. 240



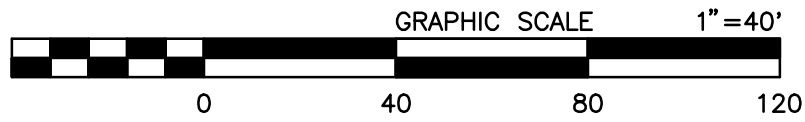
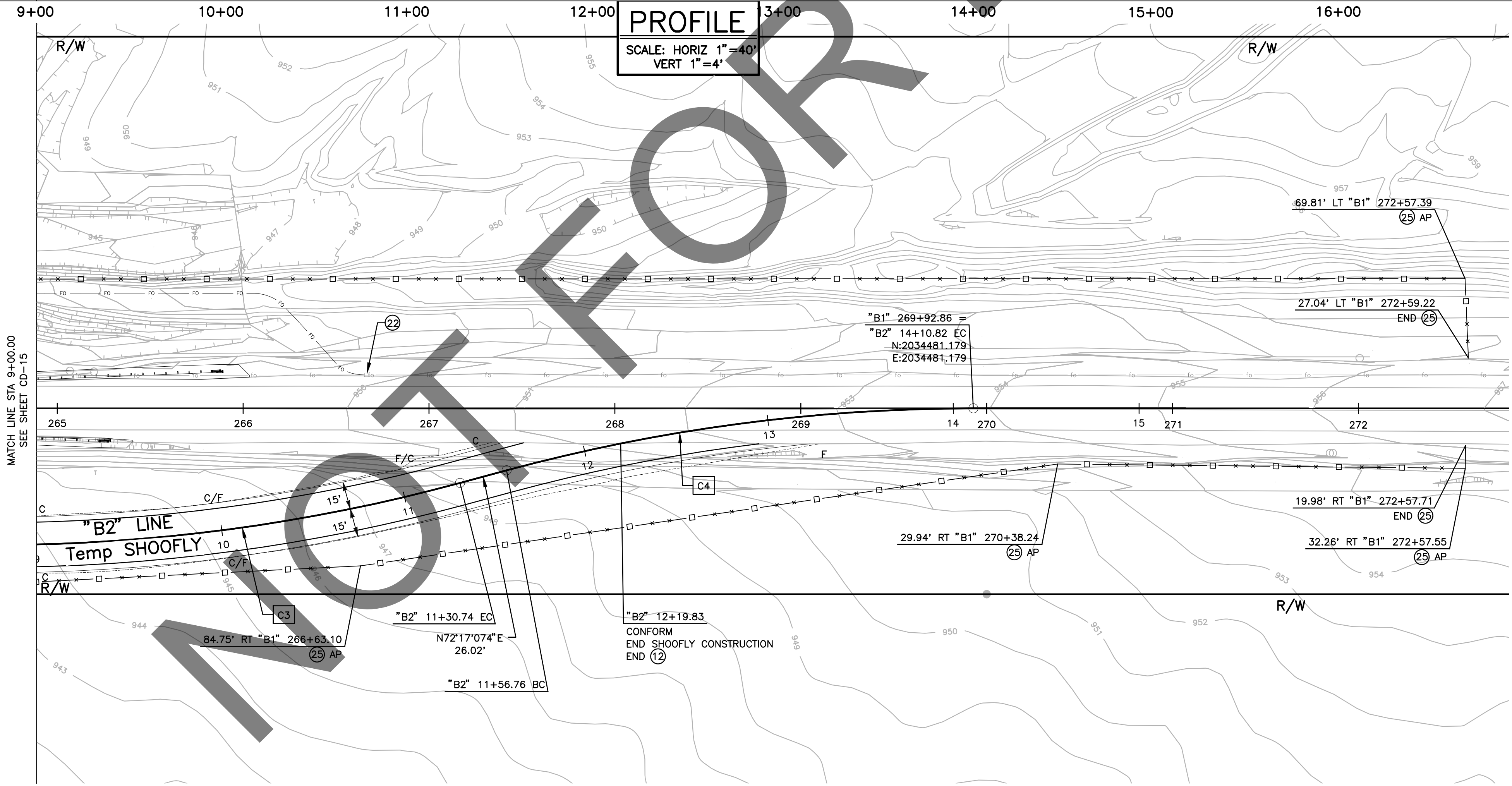
FILE NO. 586600-120, 586600-110, AND 586600-100

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C3	962.00'	15°07'54"	127.77'	254.06'
C4	962.00'	15°07'54"	127.77'	254.06'

PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'

- CONSTRUCTION NOTES
- 12 PLACE 1.25' CLASS 2 AGGREGATE BASE.
 - 22 PROPOSED PULLBOX PROTECT IN PLACE.
 - 25 PLACE DESERT TORTOISE FENCE.

NOTE:
1. Temp REINFORCED CONCRETE PIPES TO BE REMOVED WITH SHOOFLY AND ARE PROPERTY OF THE CONTRACTOR.



PREPARED BY:
DOKKEN ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE	APPROVED BY: MERVAT K. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE		

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE (SHOOFLY) BEACON DITCH			
J.L. REF. J.L. 11801	W.O. NO. H14913	PLAN SCALE 1"=40'	TOT. SHT'S. 240
SHT. NO. 64			

CD-16

FILE NO. 586600-120,
586600-110, AND 586600-100