

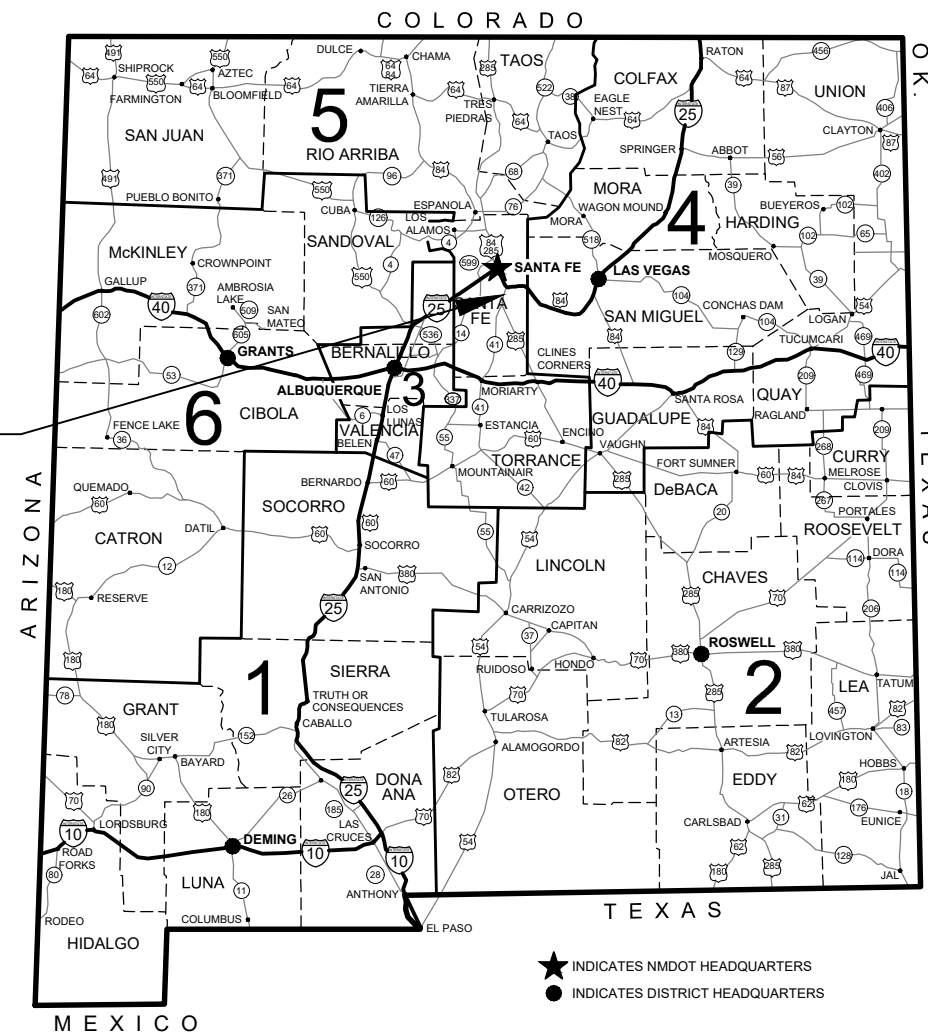
SANTA FE COUNTY

CONSTRUCTION PLANS

AVENIDA VISTA GRANDE OVER SAN MARCOS ARROYO BRIDGE REHABILITATION

2025-0186-PWTS

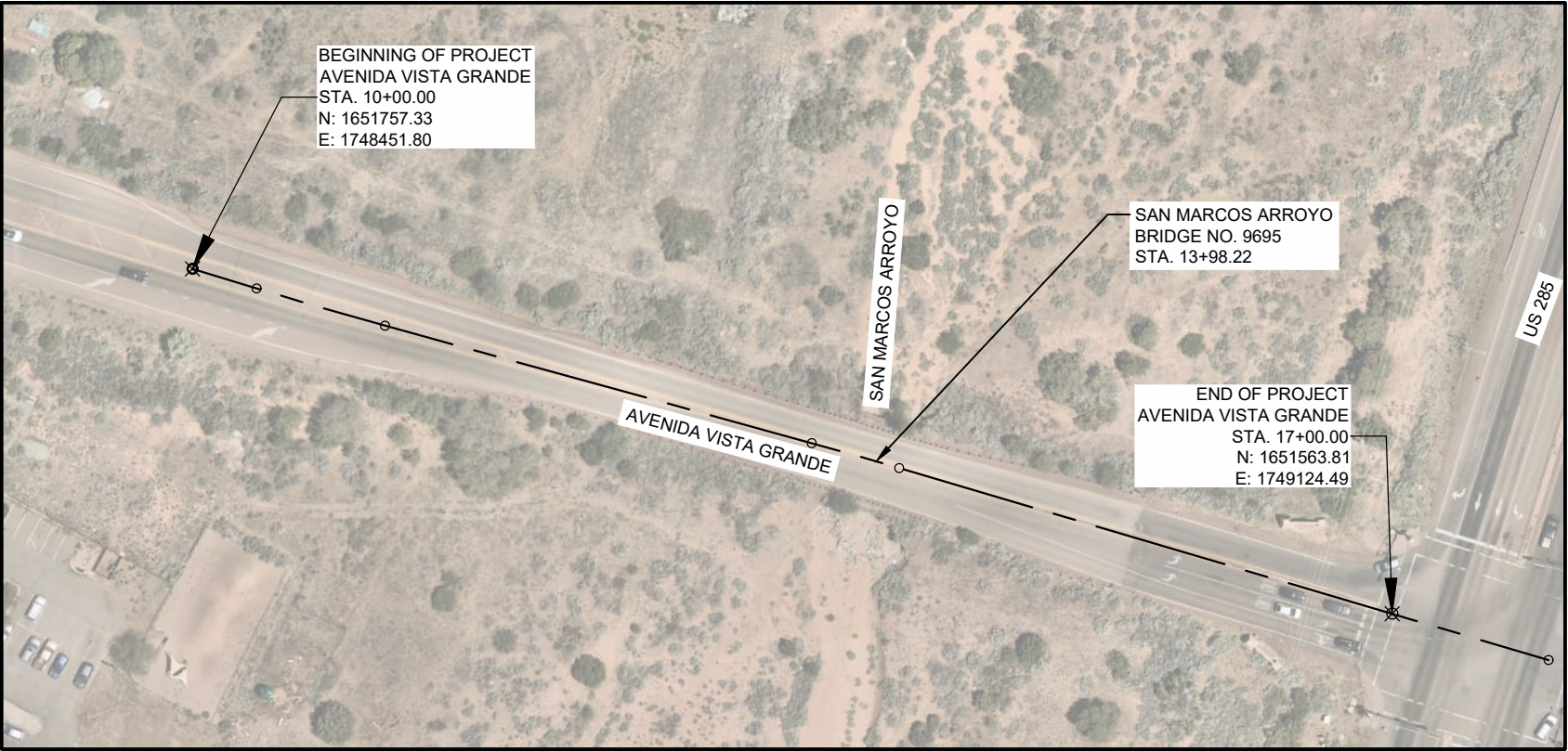
2025-0186-PWTS
AVENIDA VISTA GRANDE



WSP



LENGTH OF PROJECT 0.133 miles
THIS PROJECT BEGINS IN LAND GRANT, CANADA DE LOS ALAMOS, SECTION 09, SESW.
THIS PROJECT ENDS IN LAND GRANT, CANADA DE LOS ALAMOS, SECTION 09, SESW.



VICINITY MAP

PROJECT CONTACT INFORMATION

PROJECT MANAGER
ERIN FEEHILY
CELL: 505-469-0364

WSP USA
BURKE LOKEY, P.E.
CELL: 505-670-5548

PROJECT DESCRIPTION

THE SCOPE OF THIS PROJECT INCLUDES BRIDGE REHABILITATION AND SCOUR COUNTERMEASURES.
REPLACEMENT OF GUARDRAIL. APPLY TEMPORARY TRAFFIC CONTROL AND PLACE NEW PERMANENT SIGNING
AND STRIPING.



AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
VICINITY MAP

4
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NO.

DESCRIPTION

DATE
BY



102 GRANT AVENUE
SANTA FE, NM 87501-2061

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
SERIES 1	
1-1	COVER SHEET
1-2	VICINITY MAP
1-3	INDEX OF SHEETS
1-4	SUMMARY OF QUANTITIES
1-5	GENERAL NOTES
	SUBTOTAL = 5
SERIES 2	
2-1	EXISTING TYPICAL SECTIONS
2-2	PROPOSED TYPICAL SECTIONS
2-3	PROPOSED TYPICAL SECTION DETAILS
2-4	MISCELLANEOUS QUANTITIES
2-5	ROADSIDE BARRIER PLAN
2-6	SCOUR PROTECTION PLAN AND PROFILE
	SUBTOTAL = 6
SERIES 3	
3-00	HORIZONTAL LAYOUT
	SUBTOTAL = 1
SERIES 5	
5-1	GENERAL NOTES AND ESTIMATED QUANTITIES
5-2	CBC ELEVATIONS
5-3	PARAPET REPLACEMENT AND REPAIR DETAILS
5-4	CONCRETE APRON DETAILS
	SUBTOTAL = 4
SERIES 6	
6-1	SUGGESTED TRAFFIC CONTROL QUANTITIES
6-2	SUGGESTED TRAFFIC CONTROL SEQUENCE OF CONSTRUCTION
6-3 TO 6-4	SUGGESTED DETOUR OPERATIONS
6-5 TO 6-6	SUGGESTED TRAFFIC CONTROL - PHASE A
6-7 TO 6-8	SUGGESTED TRAFFIC CONTROL - PHASE B
	SUBTOTAL = 8
SERIES 7	
7-1	PERMANENT SIGNING AND STRIPING NOTES AND QUANTITIES
7-2	PERMANENT SIGNING AND STRIPING QUANTITIES
7-3	PERMANENT SIGNING AND STRIPING PLAN
	SUBTOTAL = 3
	PROJECT SHEET TOTAL = 27



AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
INDEX OF SHEETS

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SANTA FE, NM 87501-2061

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NO	DESCRIPTION	DATE	BY



SANTA FE COUNTY

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NO	DESCRIPTION	DATE	BY

AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
SUMMARY OF QUANTITIES



GENERAL NOTES

DIVISION 100

100

1. **DESCANSOS.** THE CONTRACTOR SHALL DOCUMENT THE LOCATION, CONDITION AND PHOTOGRAPH ALL DESCANSOS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO SEE THAT ANY AND ALL DESCANSOS WITHIN THE PROJECT LIMITS ARE NOT ADVERSELY IMPACTED DURING CONSTRUCTION ACTIVITIES. DESCANSOS THAT INTERFERE WITH CONSTRUCTION ACTIVITIES SHALL BE CAREFULLY REMOVED AND STORED FOR LATER RESETTING AT A LOCATION APPROVED BY THE PROJECT MANAGER. DESCANSOS DAMAGED DURING PROJECT CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION, TO THE SATISFACTION OF THE PROJECT MANAGER. THIS WORK SHALL BE CONSIDERED INCIDENTAL.

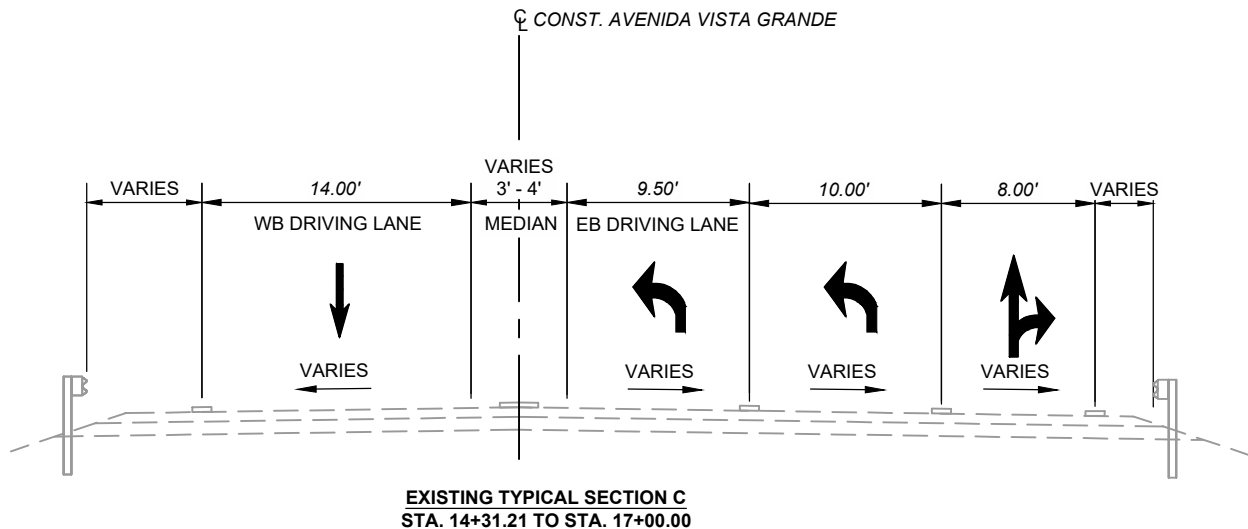
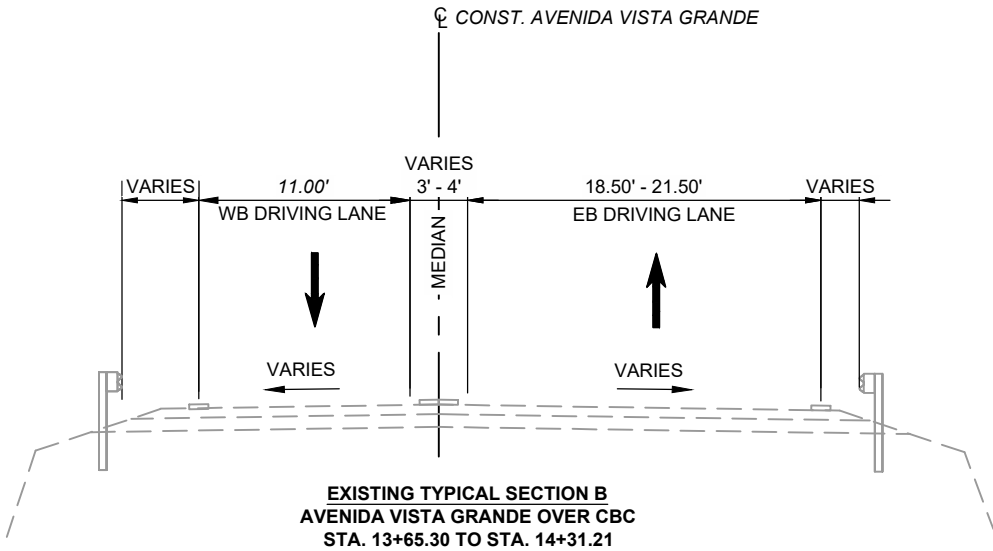
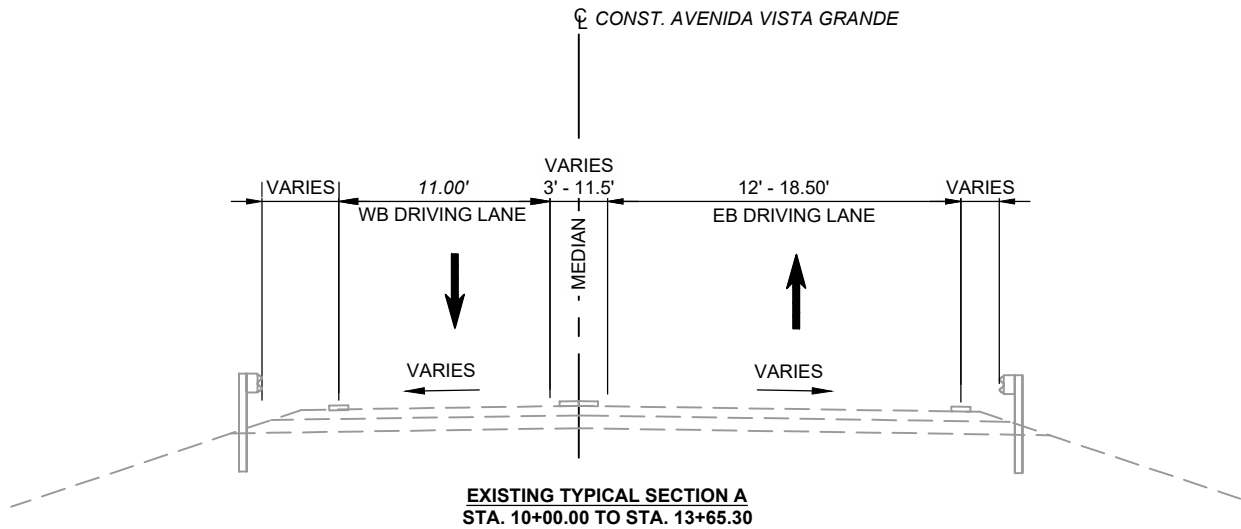


AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
GENERAL NOTES

NO.	DESCRIPTION	DATE	BY
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LENGTH OF PROJECT

STATION	TO	STATION	LENGTH		REMARKS
			L.F.	MILES	
10+00.00	-	17+00.00	700.00	0.133	AVENIDA VISTA GRANDE
PROJECT LENGTH			700.00	0.133	

NOTES:
1. LENGTHS SHOWN IN PARENTHESES ARE FOR INFORMATION ONLY AND ARE NOT INCLUDED IN THE PROJECT LENGTH.

DESIGN CRITERIA

ROUTE	AVE. VISTA GRANDE
POSTED SPEED	35 MPH
DESIGN SPEED	35 MPH
WORK ZONE SPEED	35 MPH
CLEAR ZONE	14 FT



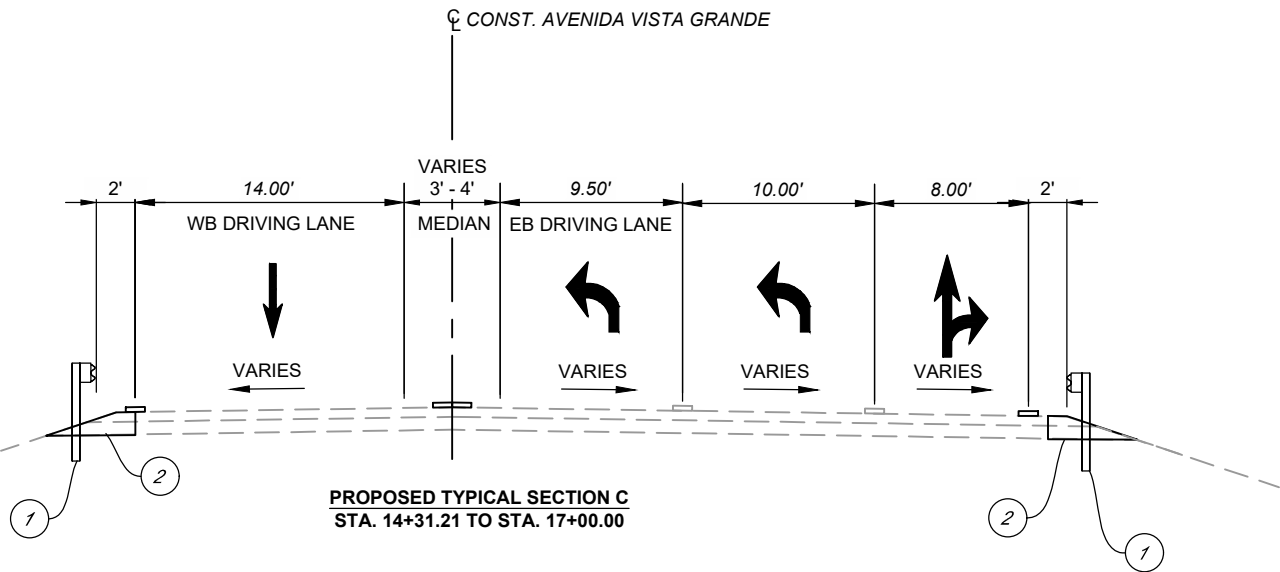
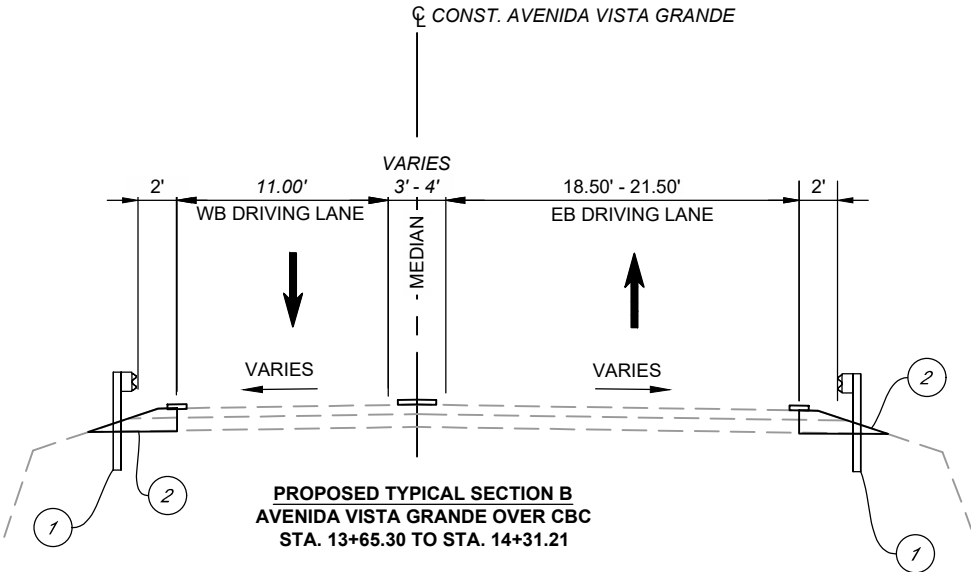
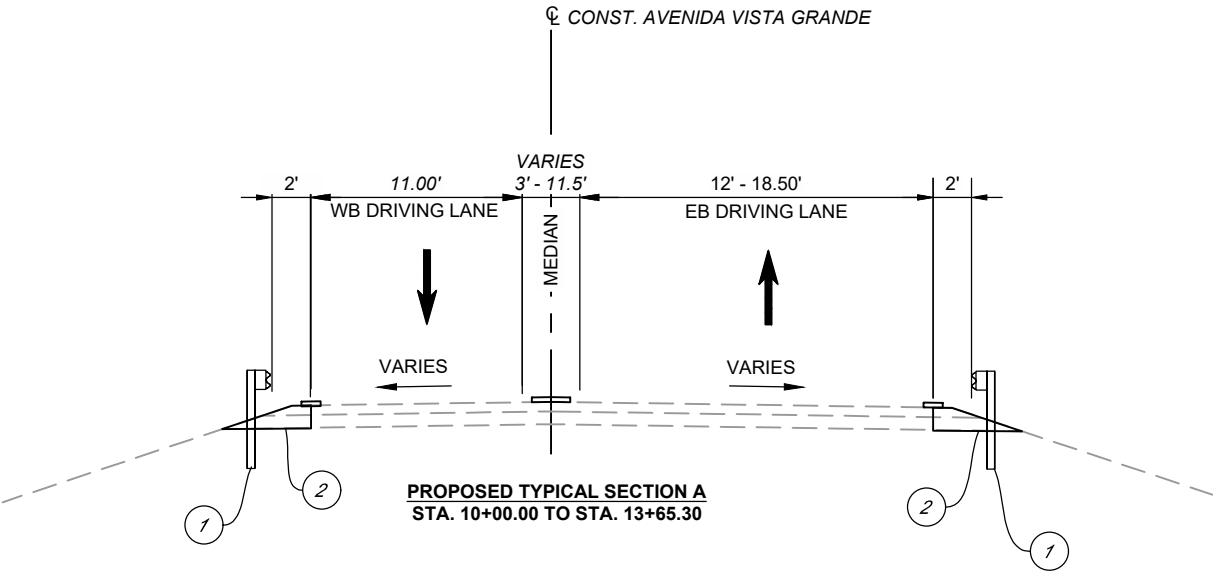
102 GRANT AVENUE
SANTA FE, NM 87501-2061

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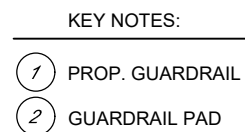
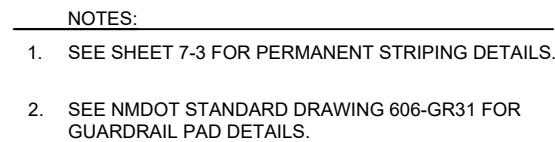
AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
EXISTING TYPICAL SECTIONS

- NOTES:
- 1. SEE SHEET 7-3 FOR PERMANENT STRIPING DETAILS.
 - 2. SEE NMDOT STANDARD DRAWING 606-GR31 FOR GUARDRAIL PAD DETAILS.

- KEY NOTES:
- 1 PROP. GUARDRAIL
 - 2 GUARDRAIL PAD



102 GRANT AVENUE SANTA FE, NM 87501-2061				SANTA FE COUNTY	
AVENIDA VISTA GRANDE OVER SAN MARCOS ARROYO BRIDGE REHABILITATION PROPOSED TYPICAL SECTIONS				DESCRIPTION	BY
4	3	2	1	NO.	DATE



4			
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NO.	DESCRIPTION	DATE	BY

AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
PROPOSED TYPICAL SECTION DETAILS

CL CONST. AVENIDA VISTA GRANDE	STATION	STATION	OFFSET (SEE NOTE 2)	LOCATION	ITEM NO. 606001 SINGLE FACE W-BEAM GUARDRAIL	ITEM NO. 606051 END TREATMENT TL-3 END TERMINAL
					L.F.	EACH
RB-01	10+37.39	14+98.78	2.0	RT.	362.5	2
RB-02	12+51.08	15+88.19	2.0	LT.	237.5	2
PROJECT TOTAL					600.0	4
PROJECT USE					600	4

SCOUR PROTECTION

GABION ID	SIZE	VOLUME (C.Y.)	NO. OF BASKETS	ITEM NO. 602200 GABIONS	ITEM NO. 604002 GEOTEXTILE CLASS 2
				TOTAL (C.Y.)	TOTAL (S.Y.)
GB-1	3' X 3' X 6'	2.00	11	22	
GB-2	9' X 6' X 1'	2.00	47	94	
GB-3	9' X 3' X 1'	1.00	1	1	
-	VARIES				313.13
PROJECT TOTAL				117.00	313.13
PROJECT USE				123	320

			203000			NOTES
STATION	TO	STATION	UNCLASSIFIED EXCAVATION	EMBANKMENT	EXCESS EXCAVATION	
			C.Y.	C.Y.	C.Y.	
10+00.00	-	17+00.00	82	25	57	SCOUR PROTECTION
				27	30	SCOUR PROTECTION SLOPES
PROJECT TOTAL			82			
PROJECT USE			90			

SURFACING SCHEDULE	AVENIDA VISTA GRANDE CONST. CL STATION			SUBGRADE AREA		207000	303160			408100			417000		
						SUBGRADE PREPARATION	BASE COURSE 6"			PRIME COAT MATERIAL			MISCELLANEOUS PAVING		
	BEGIN	END	LENGTH L.F.	WIDTH L.F.	AREA S.Y.	AREA (S.Y.)	WIDTH L.F.	DEPTH IN	AREA S.Y.	WIDTH L.F.	AREA S.Y.	(TON)	WIDTH L.F.	DEPTH IN	AREA (S.Y.)
PAVED SLOPES AT STRUCTURE															
PROPOSED GUARDRAIL SLOPE (EB)	13+65.30	14+31.21	65.91	3.50	25.63	21.79	3.50	6	25.63	3.50	25.63	0.05	3.50	3	25.63
PROPOSED GUARDRAIL SLOPE (WB)	13+65.30	14+31.21	65.91	3.75	27.46	23.34	3.75	6	27.46	3.75	27.46	0.05	3.75	3	27.46
PROJECT TOTAL					53.09	45.13			53.09		53.09	0.10			53.09
PROJECT USE						100			60			1			100

ESTIMATED SURFACING FACTORS		
ITEM	GALLONS/ SY *	GALLONS/ TON
ASPHALT FOR PRIME COAT	0.45	240
* FOR ESTIMATING PURPOSES ONLY, ACTUAL % WILL BE DETERMINED BY APPROVED MIX DESIGN.		

ITEM NO. 601000
REMOVAL OF STRUCTURES AND OBSTRUCTIONS

AVENIDA VISTA GRANDE					DESCRIPTION	METAL BARRIER	EXISTING PAVEMENT
STATION	OFFSET	STATION	OFFSET	LOCATION		L.F.	SQ. YD.
11+34	28	15+48	32	RT.	GUARDRAIL	415	
12+34	20	15+48	22	LT.	GUARDRAIL	315	
10+37	5	15+48	5	RT.	EXISTING PAVEMENT		316
12+34	5	15+88	5	LT.	EXISTING PAVEMENT		201
PROJECT TOTAL						730	517

CONSTRUCTION ENGINEERING & LUMP SUM ITEMS

ITEM NO.	DESCRIPTION	UNITS	PROJECT USE
201000	CLEARING AND GRUBBING	LS	LS
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	LS
603281	SWPPP PLAN PREPARATION AND MAINTENANCE	LS	LS
613000	CLEANING CULVERTS AND DRAINAGE STRUCTURES	LS	LS
618000	TRAFFIC CONTROL MANAGEMENT	LS	LS
618011	PUBLIC AWARENESS	LS	LS
621000	MOBILIZATION	LS	LS
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	LS	LS
802000	POST CONSTRUCTION PLANS	LS	LS

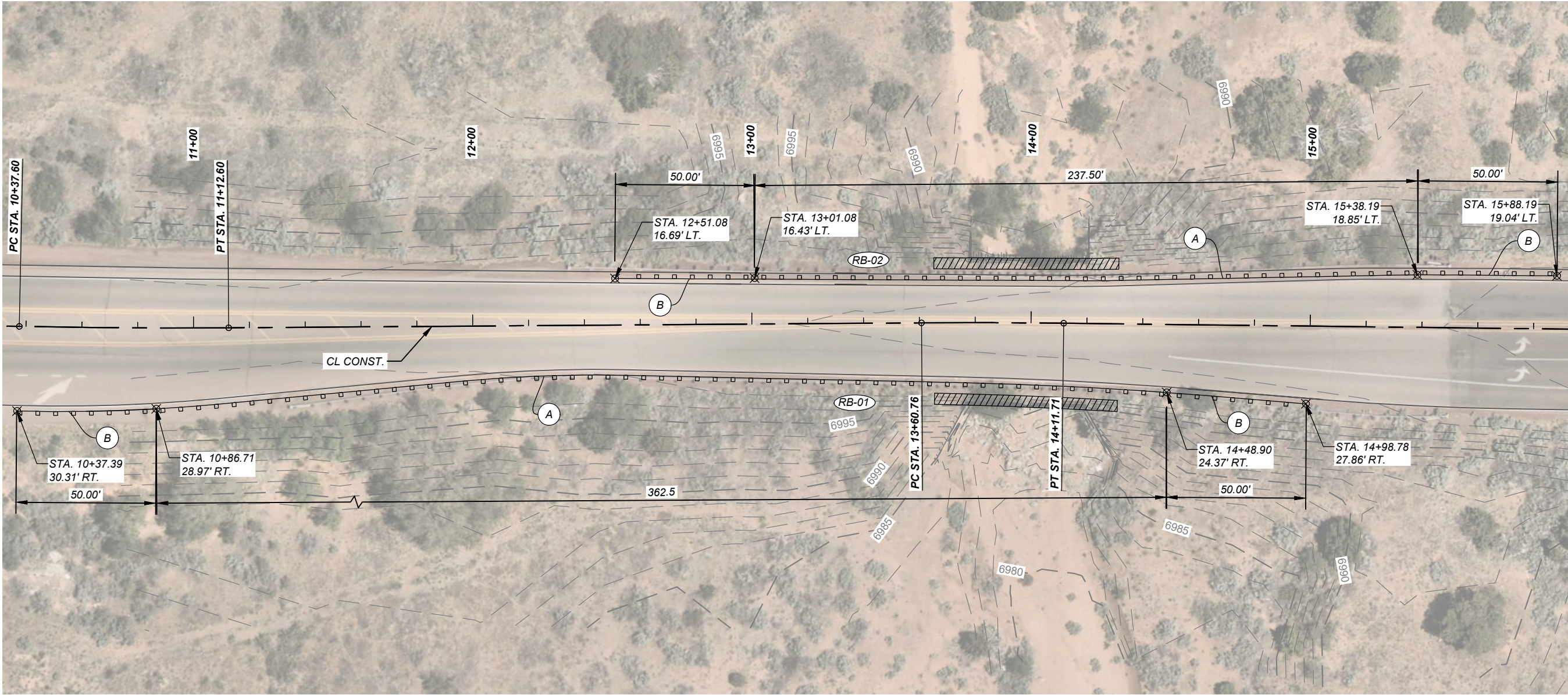


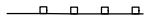
SANTA FE COUNTY

NO.	DESCRIPTION	DATE	BY
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AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
MISCELLANEOUS QUANTITIES





LEGEND		
(RB-XX)	ROADSIDE BARRIER ID NUMBER	
(A)	SINGLE FACE W-BEAM GUARDRAIL	
(B)	END TREATMENT TL-3 END TERMINAL	
		 METAL BARRIER

GENERAL NOTES

- DIMENSIONS FOR BARRIER COMPONENTS ARE TO FACE OF BARRIER UNLESS OTHERWISE NOTED.
- SEE SHEET 2-4 FOR BARRIER QUANTITIES.

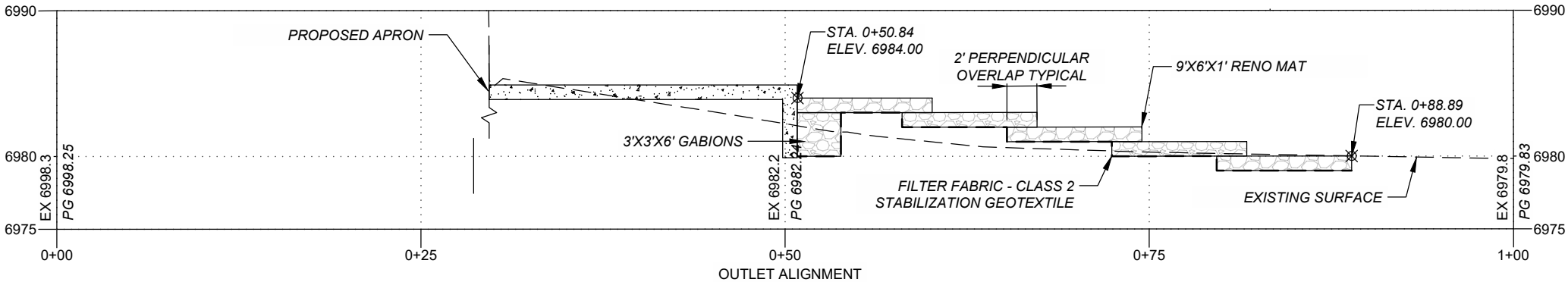
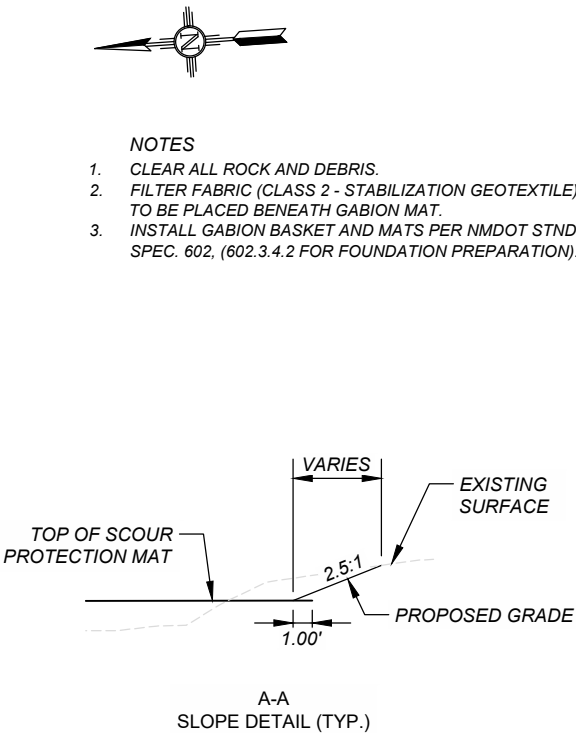
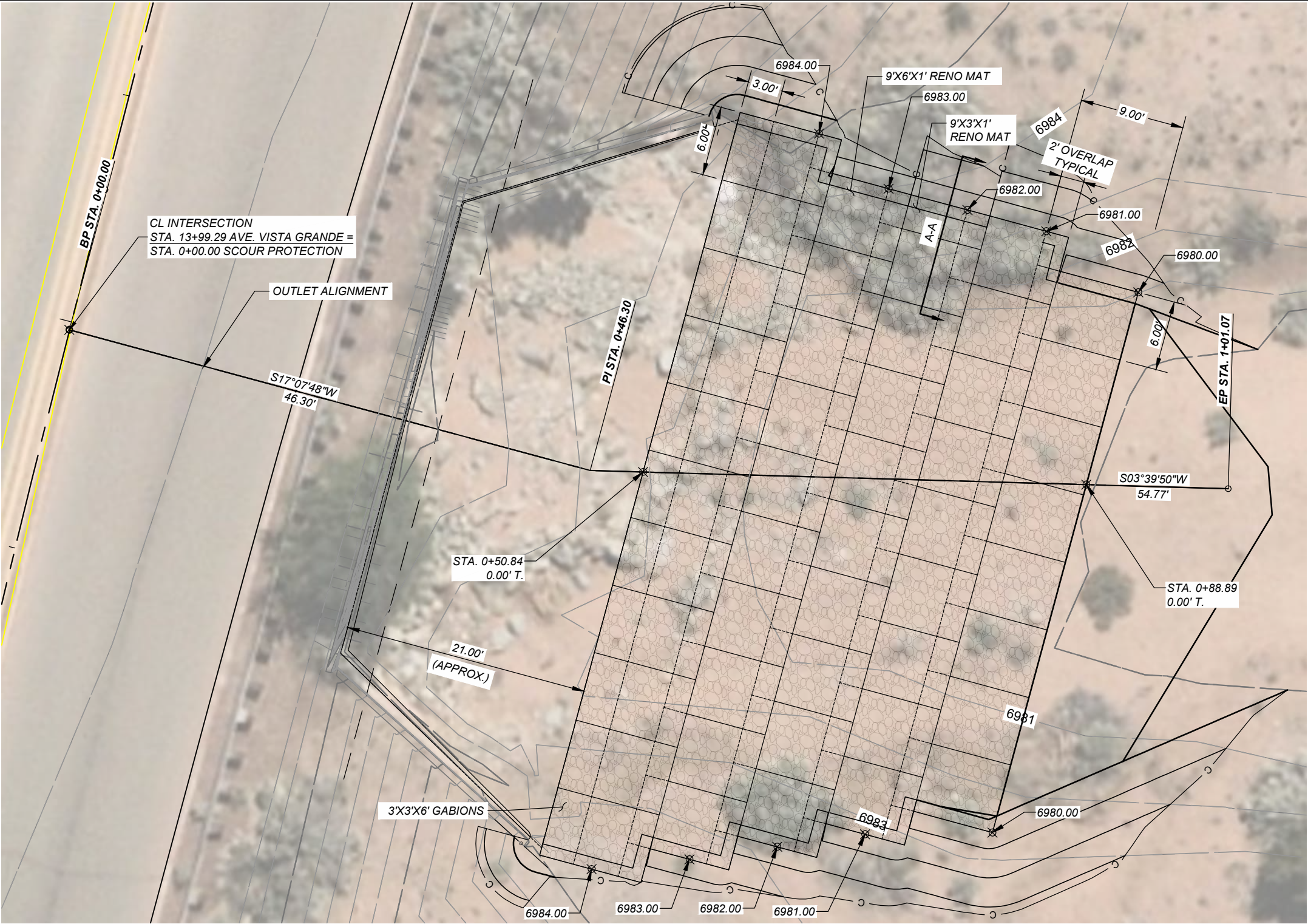


AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
ROADSIDE BARRIER PLAN

NO.	DESCRIPTION	DATE	BY
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SANTA FE, NM 87501-2061

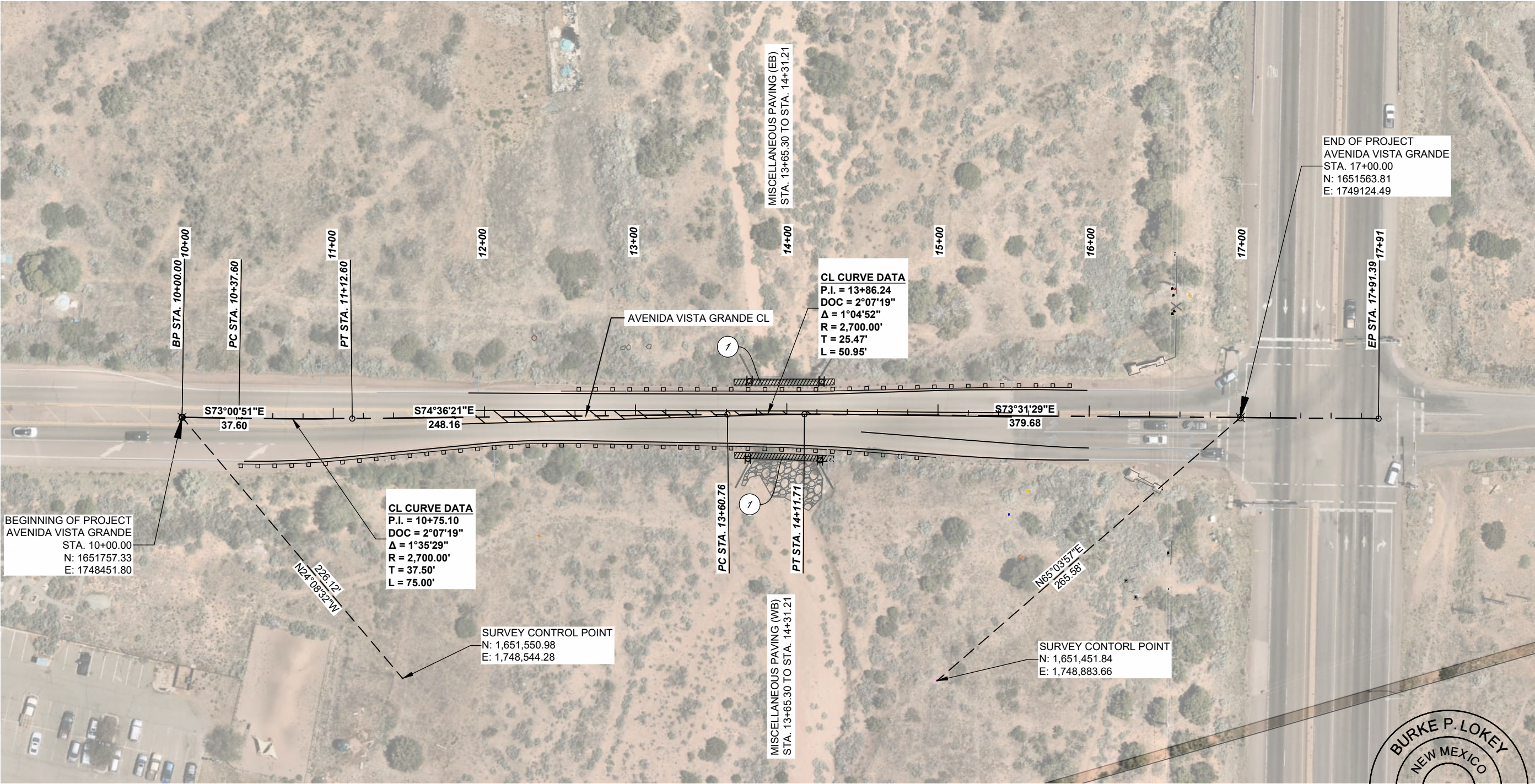


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SANTA FE, NM 87501-2061



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AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
SCOUR PROTECTION PLAN AND PROFILE



NOTES
1. EXISTING ALIGNMENT BUILT AS BEST FIT FROM AVAILABLE SURVEY DATA.

KEY NOTES:

1 PROPOSED MISC. PAVING

102 GRANT AVENUE SANTA FE, NM 87501-2061			
SANTA FE COUNTY			
AVENIDA VISTA GRANDE OVER SAN MARCOS ARROYO BRIDGE REHABILITATION HORIZONTAL LAYOUT		DESCRIPTION	DATE
4			BY
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NO.			

GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE 2019 NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION AND ALL APPLICABLE SPECIAL PROVISIONS.
2. AS-BUILT PLANS FOR THE EXISTING CONCRETE BOX CULVERT (CBC) ARE NOT AVAILABLE.
3. ALL DIMENSIONS, ELEVATIONS, AND DETAILS WERE MEASURED IN THE FIELD. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
4. ALL TREES AND BRUSH WITHIN A 20 FOOT PERIMETER OF THE CBC SHALL BE REMOVED INCLUDING ROOTS. THE AREA MUST BE CLEARED TO FULL DEPTH OF THE ROOT SYSTEM. REMOVAL SHALL BE PAID FOR UNDER ITEM NO. 201000 - CLEARING AND GRUBBING.
5. IN ACCORDANCE WITH NMDOT STANDARD SPECIFICATIONS SECTION 533, THE CONTRACTOR SHALL FIELD VERIFY, LOCATE AND MARK THE PRECISE AREAS OF DELAMINATION AND REPAIR AND PROVIDE QUANTITIES TO THE PROJECT MANAGER FOR REVIEW AND ACCEPTANCE. THE CONTRACTOR SHALL OBTAIN PROJECT MANAGER'S CONCURRENCE OF ESTABLISHED REPAIR AREAS AND ESTABLISH ESTIMATED PAY QUANTITIES PRIOR TO BEGINNING REMOVAL OF LOOSE CONCRETE.
6. BONDING NEW CONCRETE TO EXISTING CONCRETE SHALL BE IN ACCORDANCE WITH NMDOT STANDARD SPECIFICATION SECTION 511.3.7.2. THE CONTRACTOR SHALL USE METHOD 4 FOR CURING CONCRETE IN ACCORDANCE WITH SECTION 511.2.10.4. CURING COMPOUND SHALL BE APPLIED AS SOON AFTER FINISHING AS IS ALLOWED BY THE MANUFACTURER.
7. DURING CONCRETE PARAPET REPLACEMENT AND AT THE DIRECTION OF THE PROJECT MANAGER, ANY EXISTING REINFORCEMENT BARS REQUIRING REPLACEMENT OR SUPPLEMENTING DUE TO CORROSION OR SECTION LOSS SHALL BE REPLACED OR SUPPLEMENTED. IF REPLACEMENT IS REQUIRED, REINFORCEMENT BARS SHALL BE MATCHED IN CROSS SECTIONAL AREA. IF SUPPLEMENTING IS REQUIRED, REINFORCEMENT BARS SHALL BE LAPPED WITH THE SAME CROSS SECTIONAL AREA BAR AND IN ACCORDANCE WITH THE LAP SPLICE TABLE SHOWN BELOW.
8. REMOVAL OF ROCK AND DEBRIS AT THE OUTLET APRON SHALL BE PAID FOR UNDER ITEM NO. 210002 - MAJOR STRUCTURE EXCAVATION.
9. PENETRATING WATER REPELLENT TREATMENT SHALL BE APPLIED TO ALL EXISTING AND EXPOSED CONCRETE SURFACES INCLUDING CBC BOTTOM OF TOP SLAB AND TOP OF BOTTOM SLAB.

ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL
201000	CLEARING AND GRUBBING	LS	LS
210002	MAJOR STRUCTURE EXCAVATION	C.Y.	130
210003	MAJOR STRUCTURE BACKFILL	C.Y.	100
511030	STRUCTURAL CONCRETE, CLASS AA	C.Y.	35
532000	PENETRATING WATER REPELLENT TREATMENT	S.Y.	960
533000	REPAIR OF CONCRETE STRUCTURES	S.Y.	110
533001	EMBEDDED GALVANIC ANODES	EACH	324
533003	REPLACEMENT REINFORCING BARS	LB	800
534020	EPOXY INJECTION	L.F.	1,390
540060	REINFORCING BARS GRADE 60	LB	1,800

REINFORCEMENT BAR SCHEDULE

MARK	SIZE	TYPE	LENGTH	No. REQ'D	REMARKS
OUTLET CONCRETE APRON					
#4D	#4	1	2'-9"	44	
#4AL	#4	2	7'-6"	64	a=3'-0", b=4'-6"
#4AH1	#4	1	60'-0"	10	
#4AH2	#4	1	6'-0"	10	

REINFORCEMENT SCHEDULE NOTES

1. DIMENSIONS ARE TO THE CENTER OF BARS.
2. WEIGHT OF 4X4, W4X4 WELDED WIRE FABRIC IS INCLUDED IN THE WEIGHT FOR ITEM NO. 540060 - REINFORCING BARS GRADE 60. APPROXIMATELY 920 LBS OF 4X4, W4XW4 WELDED WIRE FABRIC IS REQUIRED FOR THE OUTLET APRON.

ALL REBAR LAP SPLICES SHALL BE AS SHOWN BELOW UNLESS OTHERWISE NOTED.

REINFORCEMENT LAP SPLICE TABLE

BAR SIZE:	MINIMUM BAR LAP:
No. 4	1'-10"
No. 5	2'-3"
No. 6	2'-11"
No. 7	3'-11"
No. 8	5'-2"
No. 9	6'-6"
No. 10	8'-3"

INDEX OF SHEETS

- 5-1 GENERAL NOTES AND ESTIMATED QUANTITIES
- 5-2 CBC ELEVATIONS
- 5-3 PARAPET REPLACEMENT AND REPAIR DETAILS
- 5-4 CONCRETE APRON DETAILS

SCOPE OF WORK

1. REMOVE ALL PARAPET CONCRETE (INLET AND OUTLET). PLACE EMBEDDED GALVANIC ANODES IN ACCORDANCE WITH NMDOT STANDARD DRAWING 533-02-1/1. ALL REINFORCING BARS SHALL BE PRESERVED STRAIGHTENED AND CLEANED. ADD SUPPLEMENTAL BARS WHERE NECESSARY. REBUILD PARAPETS TO THE SAME DIMENSIONS AS EXISTING. PLACE AN IMPERMEABLE MEMBRANE ON TOP OF THE CBC AS SHOWN ON SHEET 5-3.
2. REMOVE 1'-0" OF CONCRETE FROM THE ENDS OF THE INTERIOR WALLS ON THE OUTLET SIDE ONLY. ALL REINFORCING BARS SHALL BE PRESERVED STRAIGHTENED AND CLEANED. ADD SUPPLEMENTAL BARS WHERE NECESSARY. PLACE EMBEDDED GALVANIC ANODES IN ACCORDANCE WITH NMDOT STANDARD DRAWING 533-02-1/1. REBUILD INTERIOR WALLS TO THE SAME DIMENSIONS AS EXISTING.
3. REPAIR CONCRETE IN ISOLATED LOCATIONS OF CBC AND WINGWALLS (INLET AND OUTLET) AND IN ACCORDANCE WITH NMDOT SECTION 533 - CONCRETE REPAIR AND THE DETAILS SHOWN ON SHEET 5-3. PLACE EMBEDDED GALVANIC ANODES IN ACCORDANCE WITH NMDOT STANDARD DRAWING 533-02-1/1 AND SPECIAL PROVISIONS FOR SECTION 533-B: EMBEDDED GALVANIC ANODES.
4. EPOXY INJECT ALL CRACKS 1/32" WIDE OR GREATER IN ISOLATED LOCATIONS OF CBC INTERIOR WALLS, EXTERIOR WALLS, CEILING, FLOOR, WINGWALLS, AND IN ACCORDANCE WITH NMDOT SECTION 534 - EPOXY INJECTION AND SPECIAL PROVISIONS MODIFYING SECTION 534: EPOXY INJECTION.
5. REMOVE ALL ROCKS AND DEBRIS IN THE OUTLET SIDE OF THE CBC IN ACCORDANCE WITH NMDOT SECTION 601. PLACE STRUCTURAL BACKFILL MATERIAL AND COMPACT IN ACCORDANCE WITH NMDOT SECTION 210 AND NMDOT STANDARD DRAWINGS 210-01-3/3. BUILD CONCRETE APRON ON THE OUTLET SIDE OF THE CBC.
6. AFTER ALL REPAIRS ARE MADE, APPLY PENETRATING WATER REPELLENT TREATMENT TO ALL EXPOSED CONCRETE SURFACES OF THE CBC.

DESIGN DATA

DESIGN DATA SHOWN IS FOR REPAIR OF EXISTING CBC COMPONENTS.

DESIGN STRESSES:

CONCRETE:

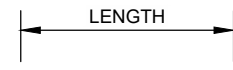
fc = 4,000 psi MIN. @28 DAYS

REINFORCING BARS AND

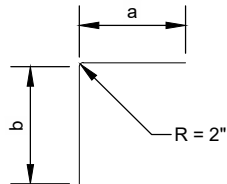
4X4, W4XW4 WELDED WIRE FABRIC:

fy = 60 ksi GRADE 60

BAR BENDING DIAGRAM



TYPE 1



TYPE 2



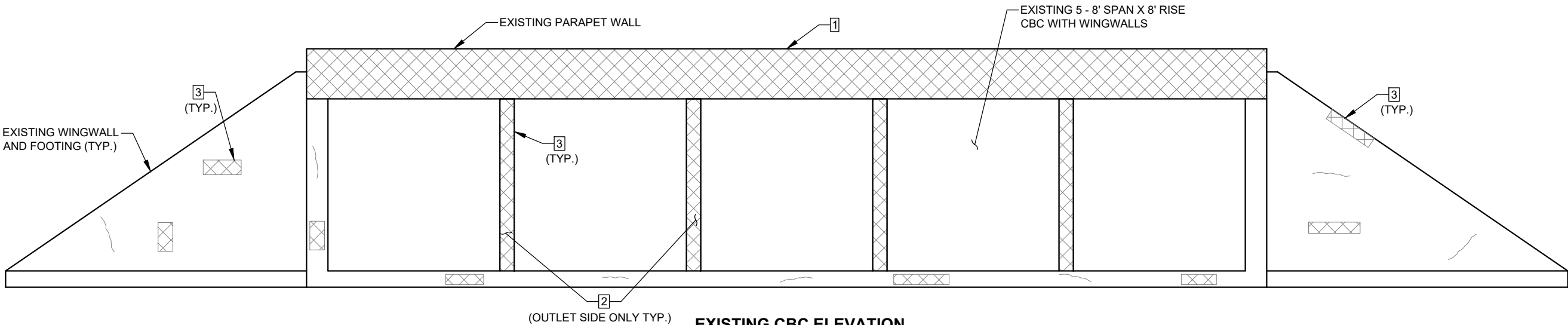
STA. 13+98.22
BRIDGE NO. 9695

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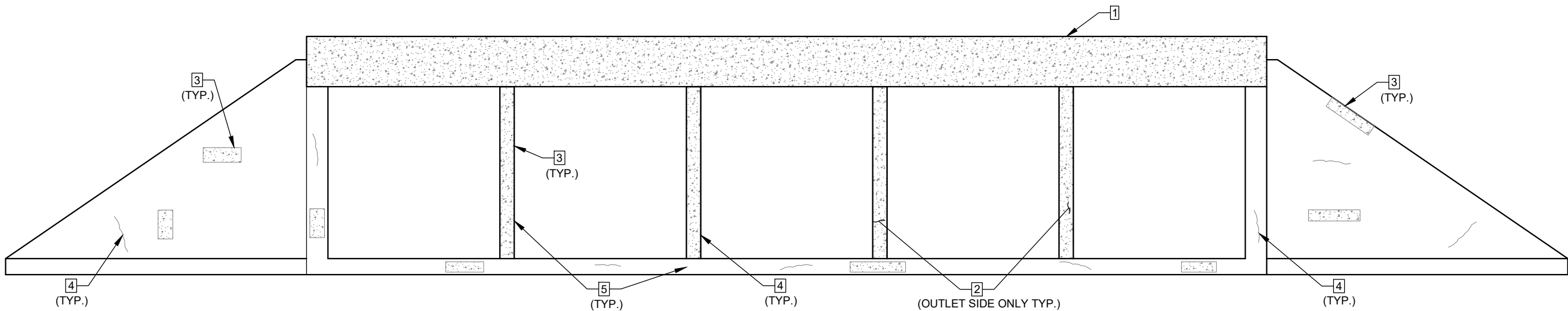


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AVENDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
GENERAL NOTES AND ESTIMATED QUANTITIES



EXISTING CBC ELEVATION
OUTLET SIDE SHOWN; INLET SIDE SIMILAR

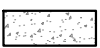


PROPOSED CBC ELEVATION
OUTLET SIDE SHOWN; INLET SIDE SIMILAR

KEYED NOTES

- 1 REMOVE ALL PARAPET CONCRETE (INLET AND OUTLET). PLACE EMBEDDED GALVANIC ANODES IN ACCORDANCE WITH NMDOT STANDARD DRAWING 533-02-1/1. ALL REINFORCING BARS SHALL BE PRESERVED, STRAIGHTENED AND CLEANED. ADD SUPPLEMENTAL BARS WHERE NECESSARY. REBUILD PARAPETS TO THE SAME DIMENSIONS AS EXISTING.
- 2 REMOVE 1'-0" OF CONCRETE FROM THE ENDS OF THE INTERIOR WALLS ON THE OUTLET SIDE ONLY. ALL REINFORCING BARS SHALL BE PRESERVED, STRAIGHTENED AND CLEANED. ADD SUPPLEMENTAL BARS WHERE NECESSARY. PLACE EMBEDDED GALVANIC ANODES IN ACCORDANCE WITH NMDOT STANDARD DRAWING 533-02-1/1. REBUILD INTERIOR WALLS TO THE SAME DIMENSIONS AS EXISTING.
- 3 REPAIR CONCRETE IN ISOLATED LOCATIONS OF CBC AND WINGWALLS (INLET AND OUTLET) AND IN ACCORDANCE WITH NMDOT SECTION 533 - CONCRETE REPAIR AND THE DETAILS SHOWN ON SHEET 5-3. PLACE EMBEDDED GALVANIC ANODES IN ACCORDANCE WITH NMDOT STANDARD DRAWING 533-02-1/1.
- 4 EPOXY INJECT ALL CRACKS GREATER THAN 1/32" IN ISOLATED LOCATIONS OF INTERIOR WALLS, EXTERIOR WALLS, CBC CEILING, AND WINGWALLS, AND IN ACCORDANCE WITH NMDOT SECTION 534 - EPOXY INJECTION.
- 5 AFTER ALL REPAIRS ARE MADE, APPLY PENETRATING WATER REPELLENT TREATMENT TO ALL EXPOSED SURFACES OF THE CBC INCLUDING THE BOTTOM SLAB OF THE CBC.

LEGEND

- REMOVE 
- NEW CONCRETE 



STA. 13+98.22
BRIDGE NO. 9695

DESIGNED BY: MA DRAWN BY: MA CHECKED BY: JG PLOT DATE: 9/3/2025

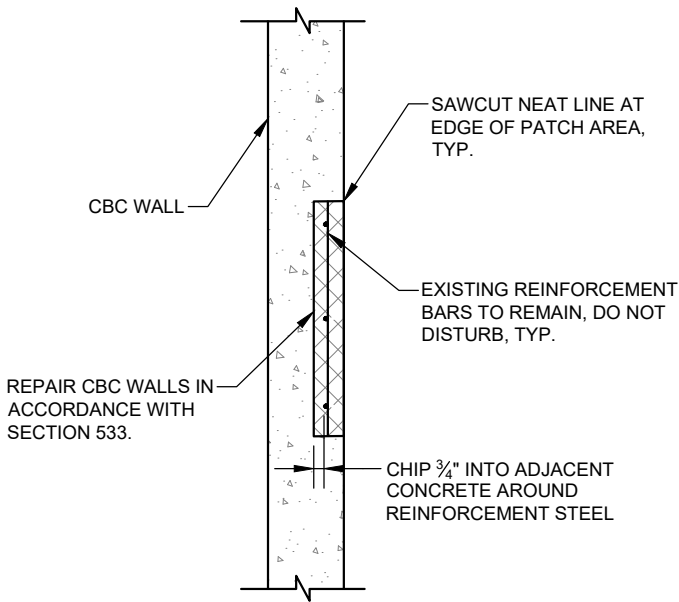
APPROVED FOR CONSTRUCTION: _____ DATE: _____

102 GRANT AVENUE
SANTA FE, NM 87501-2061

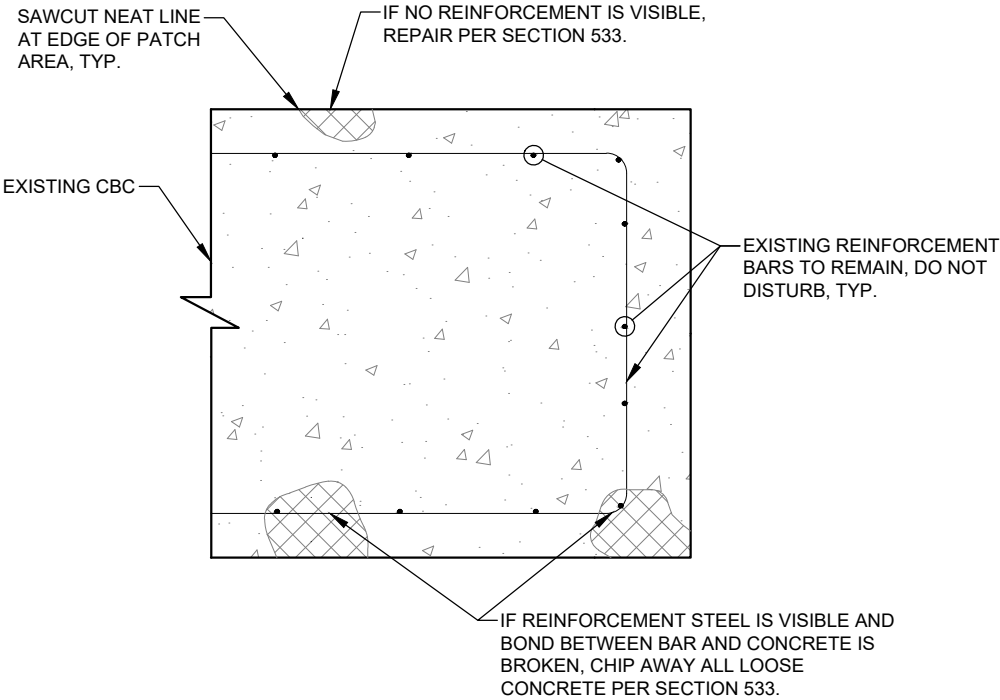


NO.	DESCRIPTION	DATE	BY
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AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
CBC ELEVATIONS



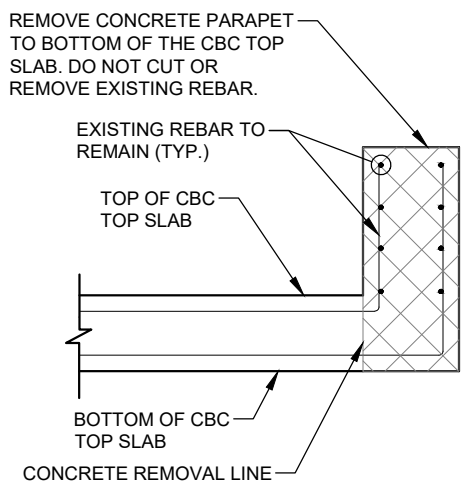
CBC INTERIOR WALL REPAIR



TYPICAL PATCH REPAIR DETAILS

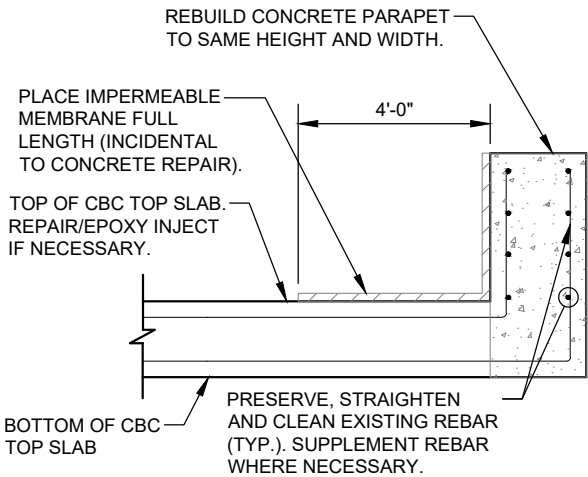
NOTES:

1. PREPARATION AND REPLACEMENT OF EXPOSED REINFORCEMENT BARS AND UNSOUND CONCRETE SHALL CONFORM TO SECTION 533 - CONCRETE STRUCTURE REPAIR.
2. NEW STEEL REINFORCEMENT, IF REQUIRED, SHALL CONFORM TO SECTION 533 - CONCRETE STRUCTURE REPAIR.
3. PLACE EMBEDDED GALVANIC ANODES IN ACCORDANCE WITH NMDOT DRAWING 533-02-1/1 - CONCRETE STRUCTURE REPAIR DETAILS (GALVANIC ANODES).
4. EXISTING REBAR SHOWN ARE APPROXIMATE. ACTUAL NUMBER OF REBAR AND THEIR LOCATION MAY VARY.

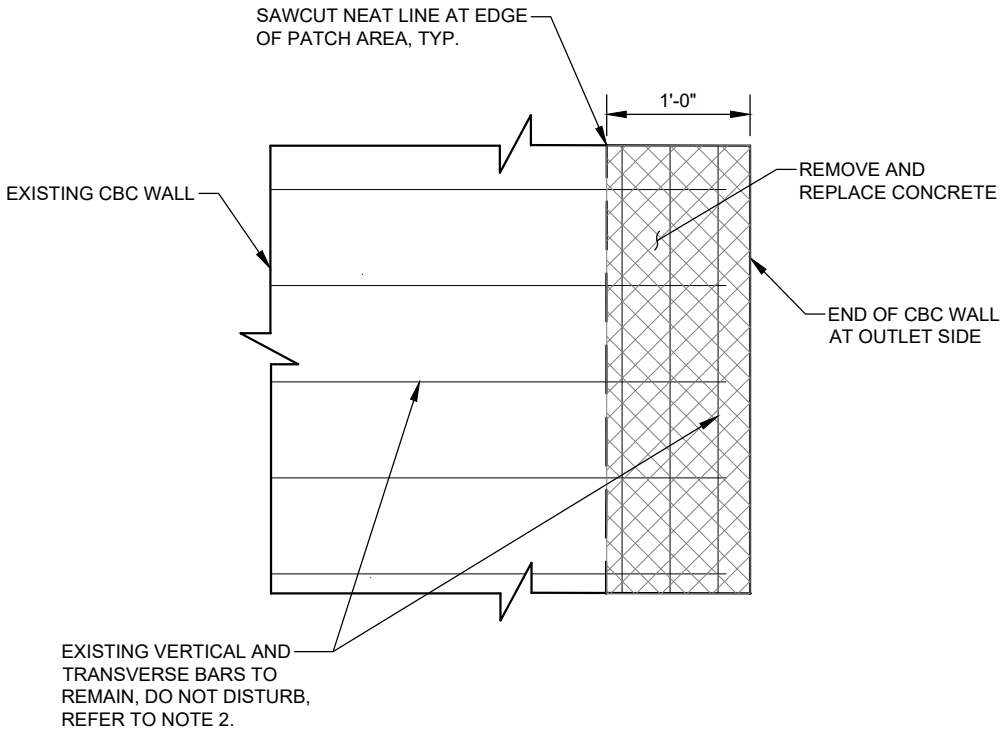


EXISTING CONCRETE PARAPET

EXISTING REBAR SHOWN ARE APPROXIMATE. ACTUAL NUMBER OF REBAR AND THEIR LOCATION MAY VARY.



PROPOSED CONCRETE PARAPET



CBC WALL REPAIR AT OUTLET END

LEGEND

REMOVE



NEW CONCRETE



STA. 13+98.22
BRIDGE NO. 9695

DESIGNED BY: MA DRAWN BY: MA CHECKED BY: JG PLOT DATE: 9/3/2025

APPROVED FOR CONSTRUCTION: DATE:

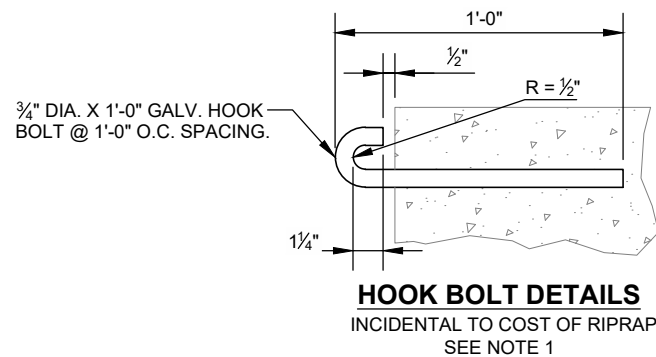
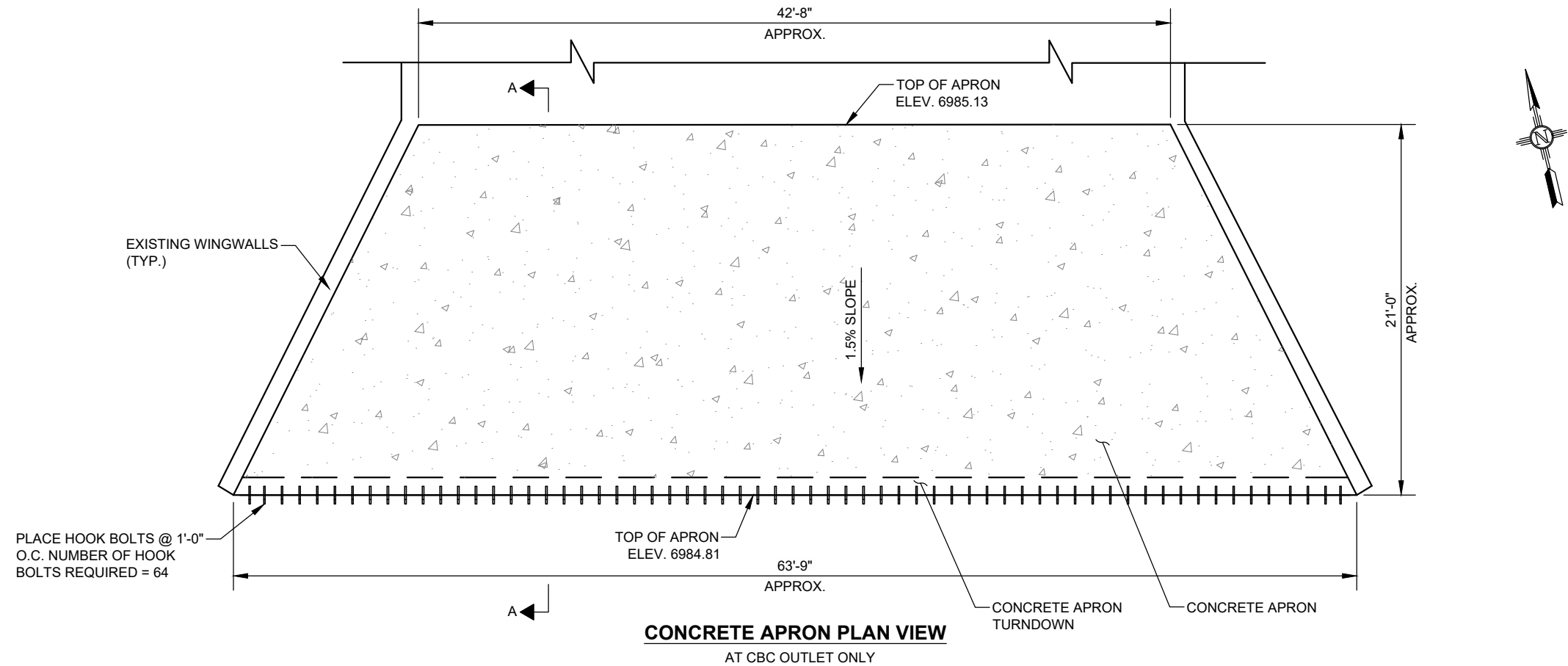
AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
PARAPET REPLACEMENT AND REPAIR DETAILS

4 3 2 1 NO.

DESCRIPTION

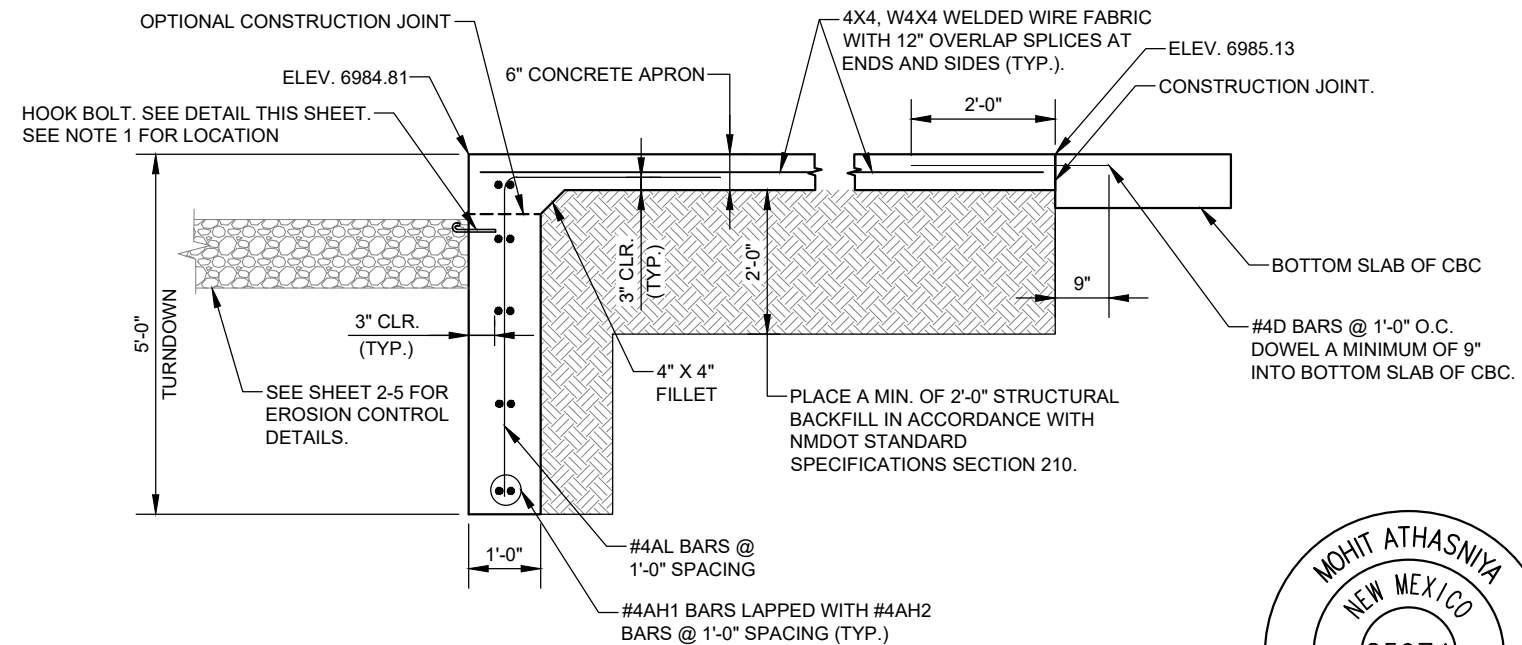
DATE BY





NOTE:

1. PLACE 3/4" DIA. X 1'-0" LONG GALVANIZED HOOK BOLTS AT 1'-0" SPACING O.C. EMBED J-HOOKS INTO CONCRETE APRON IN ACCORDANCE WITH THE DETAIL ON THIS SHEET. HOOK BOLTS SHALL MEET THE REQUIREMENTS OF ASTM F1554 GRADE 55. LOCATE HOOK BOLTS IN CONCRETE APRON WHERE THE WIRE FOR THE EROSION CONTROL STRUCTURE CAN BE HOOKED. NUMBER OF HOOK BOLTS REQUIRED = 64. HOOK BOLT CAN BE A CAST IN PLACE BAR IN THE NEW CONCRETE OR BAR SET IN DRILLED HOLE FILLED WITH NON-SHRINK GROUT.



SECTION A-A
OUTLET CONCRETE APRON WITH TURNDOWN



STA. 13+98.22
BRIDGE NO. 9695

DESIGNED BY: MA DRAWN BY: MA CHECKED BY: JG PLOT DATE: 9/3/2025

APPROVED FOR CONSTRUCTION: _____ DATE: _____

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SANTA FE, NM 87501-2061



NO.	DESCRIPTION	DATE	BY
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AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
CONCRETE APRON DETAILS

CONSTRUCTION SIGNING SUMMARY OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNITS	PROJECT USE
606598	TCWB RETAINED BY THE CONTRACTOR	L.F.	570
606599	RESETTING OF TCWB	L.F.	410
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	LS	
704099	TEMPORARY RETROREFLECTORIZED PAINTED MARKINGS 4"	L.F.	5,000
720060	VEHICULAR IMPACT ATTENUATOR UNIT - WORK ZONES	EACH	1
720110	REMOVE/RESET IMPACT ATTENUATOR UNIT	EACH	1
721000	REMOVAL OF PAVEMENT MARKING	L.F.	5,200

CONSTRUCTION SIGNING TCWB AND IMPACT ATTENUATOR

PHASE	STATION	TO	STATION	TCWB ID	LOCATION	606598	606599	720060	720110	REMARKS
						TCWB RETAINED BT CONTRACTOR	RESETTING OF TCWB	VEHICULAR IMPACT ATTENUATOR UNIT - WORK ZONES	REMOVE/RESET IMPACT ATTENUATOR UNIT	
						L.F.	L.F.	EACH	EACH	
SHOULDER AND WINGWALLS WORK - AVE. VISTA GRANDE WESTBOUND										
A	11+89.96	-	15+98.26	TCWB-01	LT.	410.00		1		SEE SHEET 6-3 FOR DETAILS
SHOULDER AND WINGWALLS WORK - AVE. VISTA GRANDE EASTBOUND										
B	10+32.14	-	15+99.50	TCWB-02	RT.	160.00	410.00		1	SEE SHEET 6-5 FOR DETAILS
PROJECT TOTAL						570.00	410.00	1	1	
PROJECT USE						570	410	1	1	

CONSTRUCTION SIGNING & DEVICES

SIGN CODE & CHANNELIZATION DEVICES	702810														
	CONSTRUCTION SIGNING					STEEL POSTS AND BASE POSTS FOR CONSTRUCTION SIGNING (MOUNTING REQUIREMENTS)							PORTABLE SIGN SUPPORT	BARRICADE, TYPE III-8'	CHANNELIZATION DEVICES TYPE DRUM
						POST LENGTH					BASE POST (3.5 L.F.)				
						WIDTH OF SIGN	HEIGHT OF SIGN	NO. OF SIGNS	SIGN AREA	TOTAL SIGN AREA	LEFT	CENTER			
	IN.	IN.	EACH	S.F.	S.F.	L.F.	L.F.	L.F.	EACH	L.F.	EACH	L.F.	EACH	EACH	EACH
DETOUR OPERATION															
M4-8a-24	24	18	3	3.0	9.0								3.0		
M1-5 (285)	24	24	12	4.0	48.0								12.0		
M4-8-24	24	12	17	2.0	34.0								17.0		
M-5 (AVE. VISTA GRANDE)	30	24	7	6.0	42.0								7.0		
M5-1R-21	21	15	2	2.2	4.4								2.0		
M6-1R-21	21	15	2	2.2	4.4								2.0		
M5-1L-21	21	15	2	2.2	4.4								2.0		
M6-1R-21	21	15	4	2.2	8.8								4.0		
M6-3-21	21	15	6	2.2	13.1								6.0		
R3-2-24	24	24	1	4.0	4.0								1.0		
R3-1-24	24	24	1	1.0	1.0								1.0		
W20-2-36	36	36	2	10.0	20.0								2.0		
R11-22	30	24	4	5.0	20.0								4.0		
W1-4R-36	36	36	1	9.0	9.0								1.0		
W1-4L-36	36	36	1	9.0	9.0								1.0		
B1-1RL-96														4.0	
DRUMS															45
SUBTOTAL					231.0								65.0	4.0	45.0
PHASE A - SHOULDER AND WINGWALLS WORK - AVE. VISTA GRANDE WESTBOUND															
W1-4L-36	36	36	1	9.0	9.0		11.0		1	11.0	1	3.5			
W1-4R-36	36	36	1	9.0	9.0		11.0		1	11.0	1	3.5			
W20-1a-36	36	36	4	36.0	36.0		11.0		4	44.0	4	14.0			
G20-2-36	36	18	4	18.0	18.0		9.5		4	38.0	4	14.0			
SUBTOTAL					72.0					104.0		35.0			
PHASE B - SHOULDER AND WINGWALLS WORK - AVE. VISTA GRANDE EASTBOUND															
W20-1a-36	36	36	(4)	9.0	(9.0)		11.0		4	(44.0)	4	14.0			
G20-2-36	36	18	(4)	4.5	(4.5)		9.5		4	(38.0)	4	14.0			
SUBTOTAL												28.0			
PROJECT TOTAL					303.0					104.0		63.0	65.0	4.0	45.0
PROJECT USE					310					110		70	65	4	45

- NOTES:
- QUANTITIES ENCLOSED IN PARENTHESES ARE ACCOUNTED FOR IN OTHER TRAFFIC CONTROL PHASES.
 - FOR CONTRACTOR INFORMATION ONLY.

TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ITEM NO. 702810

DESCRIPTION	UNITS	PROJECT TOTAL	PROJECT USE
CONSTRUCTION SIGNING	S.F.	290	310
STEEL POSTS AND BASE POSTS FOR CONSTRUCTION SIGNING	L.F.	167	180
PORTABLE SIGN SUPPORT	EACH	63	65
CHANNELIZATION DEVICES TYPE DRUM	EACH	46	45
BARRICADE, TYPE III-8'	EACH	4	4

- NOTES:
- FOR CONTRACTOR'S INFORMATION ONLY.

TEMPORARY RETROREFLECTORIZED PAINTED MARKINGS 4" ITEM NO. 704099

PHASE	STATION	TO	STATION	LOCATION	4" SOLID WHITE	4" SOLID DOUBLE YELLOW	REMARKS
					L.F.	L.F.	
A	11+68.37	-	15+48.66	MEDIAN		381	SEE SHEET 6-5 FOR DETAILS
A	11+68.37	-	15+48.66	MEDIAN		381	SEE SHEET 6-5 FOR DETAILS
A	11+89.72	-	15+98.45	LT.	410		SEE SHEET 6-5 FOR DETAILS
PH. A SUBTOTAL					410	1,524	
B	10+41.78	-	15+99.83	RT.	561		SEE SHEET 6-7 FOR DETAILS
PH. B SUBTOTAL					561	0	
PROJECT SUBTOTAL					971	1,524	
PROJECT TOTAL					2,500		
(X2 APPLICATIONS) PROJECT USE					5,000		SEE NOTE 1

- NOTES:
- THIS QUANTITY INCLUDES SECOND COAT APPLICATION.

REMOVAL OF PAVEMENT MARKING ITEM NO. 721000

PHASE	STATION	TO	STATION	LOCATION	L.F.	REMARKS
AVENIDA VISTA GRANDE						
A	11+68.37	-	15+48.66	RT.	762.00	EXISTING SOLID DOUBLE YELLOW MEDIAN STRIPING
A	11+68.37	-	15+48.66	LT.	762.00	EXISTING SOLID DOUBLE YELLOW MEDIAN STRIPING
A	11+68.37	-	15+48.66	MIDDLE	33.00	EXISTING MEDIAN GORE MARKINGS
A	11+89.96	-	15+98.45	LT.	410.00	EXISTING SOLID WHITE SHOULDER STRIPE
A	14+49.41	-	15+99.91	RT.	151.00	EXISTING RIGHT TURN LANE STRIPING
PHASE-A SUBTOTAL					2,118.00	
POST-A	11+68.37	-	15+48.66	RT.	762.00	TEMP. SOLID DOUBLE YELLOW MEDIAN STRIPING
POST-A	11+68.37	-	15+48.66	LT.	762.00	TEMP. SOLID DOUBLE YELLOW MEDIAN STRIPING
POST-A	11+89.72	-	15+98.45	LT.	410.00	TEMP. SOLID WHITE SHOULDER STRIPING
POST PHASE-A SUBTOTAL					1,934.00	
B	10+41.78	-	15+99.82	RT.	560.00	EXISTING SOLID WHITE SHOULDER STRIPE
PHASE-B SUBTOTAL					560.00	
POST-B	10+41.78	-	15+99.83	RT.	561.00	TEMP. SOLID WHITE SHOULDER STRIPING
POST PHASE-B SUBTOTAL					561.00	
PROJECT TOTAL					5,173.00	
PROJECT USE					5,200	



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SANTA FE, NM 87501-2061

SANTA FE COUNTY

					BY
					DATE
4	3	2	1	NO.	DESCRIPTION

AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
SUGGESTED TRAFFIC CONTROL QUANTITIES

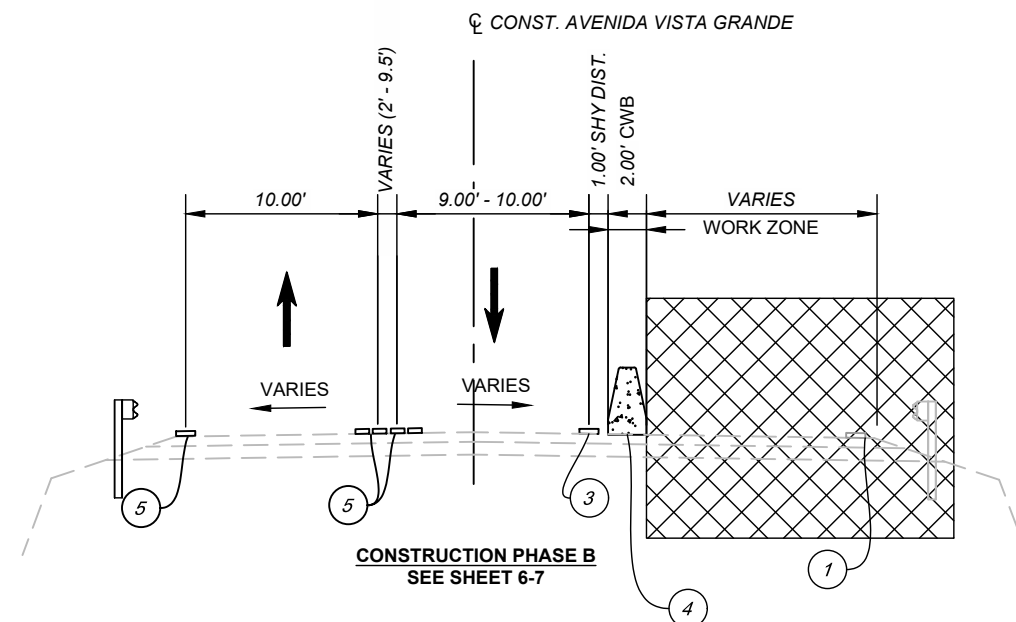
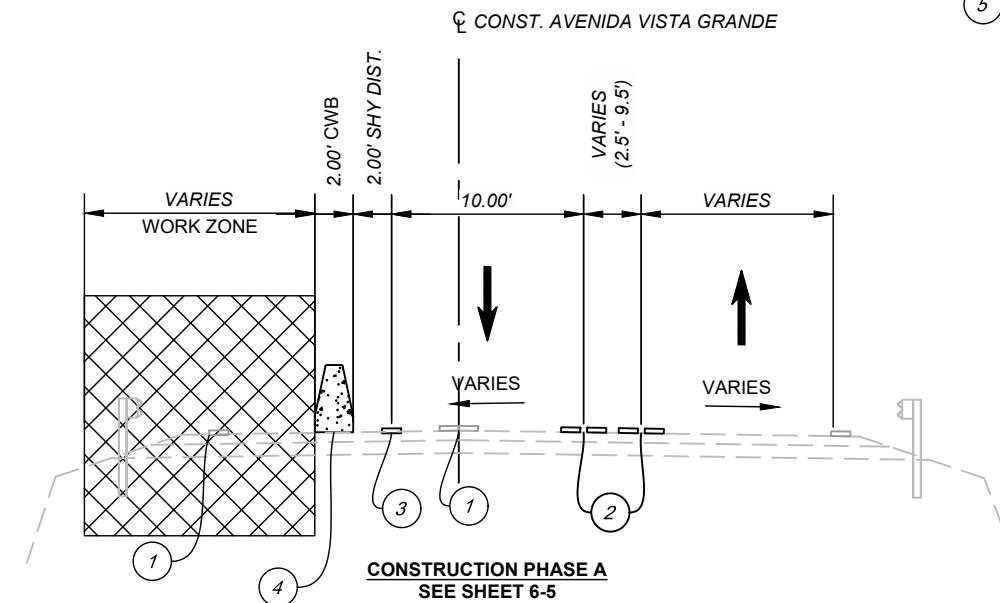
PHASE A. - WESTBOUND WORK

- USING DETOUR OPERATION (SHEETS 6-3 AND 6-4), REMOVE EXISTING STRIPING, PLACE TEMPORARY STRIPING, AND PLACE TEMPORARY CONCRETE WALL BARRIER PER SHEETS 6-5 TO 6-6
- MOVE TRAFFIC ONTO TRAFFIC CONTROL CONFIGURATION PER SHEET 6-5. REMOVE DETOUR SIGNING.
- REPAIR EXISTING WESTBOUND WING WALL
- BUILD WESTBOUND PROPOSED GUARDRAIL (SEE SHEET 2-4)
- USING DETOUR OPERATION (SHEETS 6-3 AND 6-4), REMOVE TEMPORARY CONCRETE WALL BARRIER AND RESTRIPE WB SHOULDER STRIPE AND MEDIUM STRIPING.

PHASE B. - EASTBOUND WORK

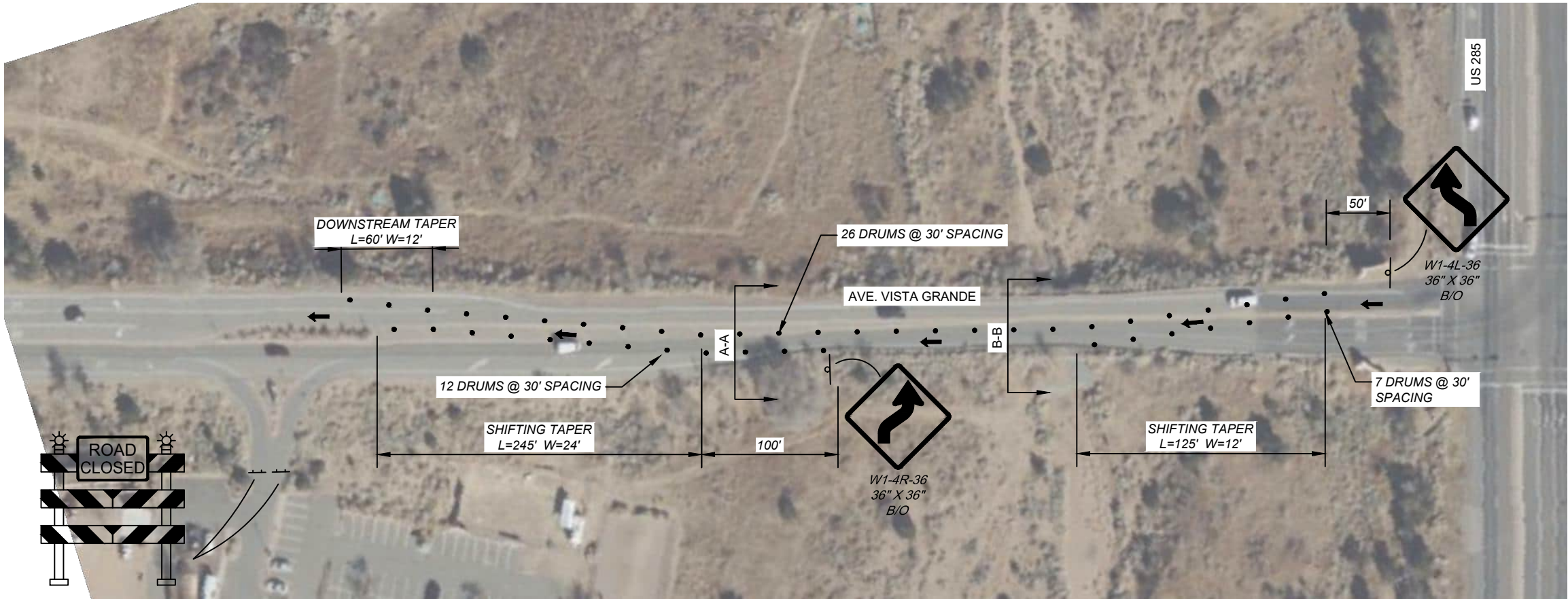
- USING DETOUR OPERATION (SHEET 6-3), REMOVE EXISTING STRIPING, PLACE TEMPORARY STRIPING, AND PLACE TEMPORARY CONCRETE WALL BARRIER PER SHEETS 6-7 TO 6-8.
- MOVE TRAFFIC ONTO TRAFFIC CONTROL CONFIGURATION PER SHEET 6-7. REMOVE DETOUR SIGNING.
- REPAIR EXISTING EASTBOUND WING WALL
- BUILD EASTBOUND SCOUR PROTECTION
- BUILD EASTBOUND PROPOSED GUARDRAIL (SEE SHEET 2-4)
- USING DETOUR OPERATION (SHEET 6-3), REMOVE TEMPORARY CONCRETE WALL BARRIER AND RESTRIPE EB SHOULDER STRIPE AND RIGHT TURN LANE STRIPE.

- 1 OBLITERATE EXISTING STRIPING
- 2 TEMPORARY DOUBLE YELLOW STRIPING
- 3 TEMPORARY WHITE STRIPING
- 4 TEMPORARY CWB
- 5 PERMANENT STRIPING, SEE 7- SERIES



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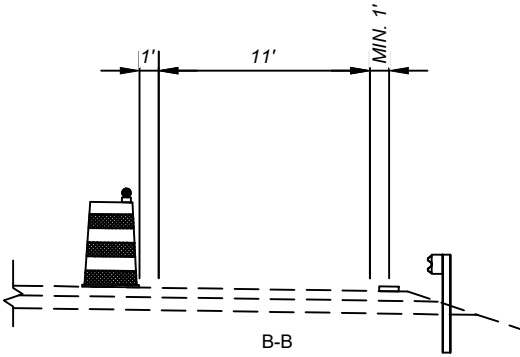
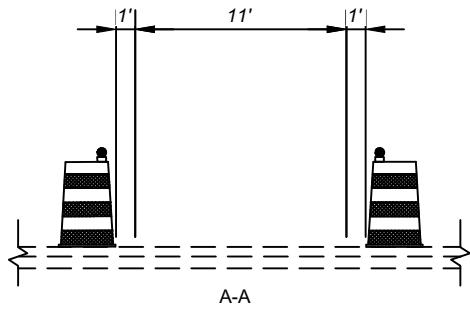
AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO BRIDGE REHABILITATION
SUGGESTED TRAFFIC CONTROL
SEQUENCE OF CONSTRUCTION



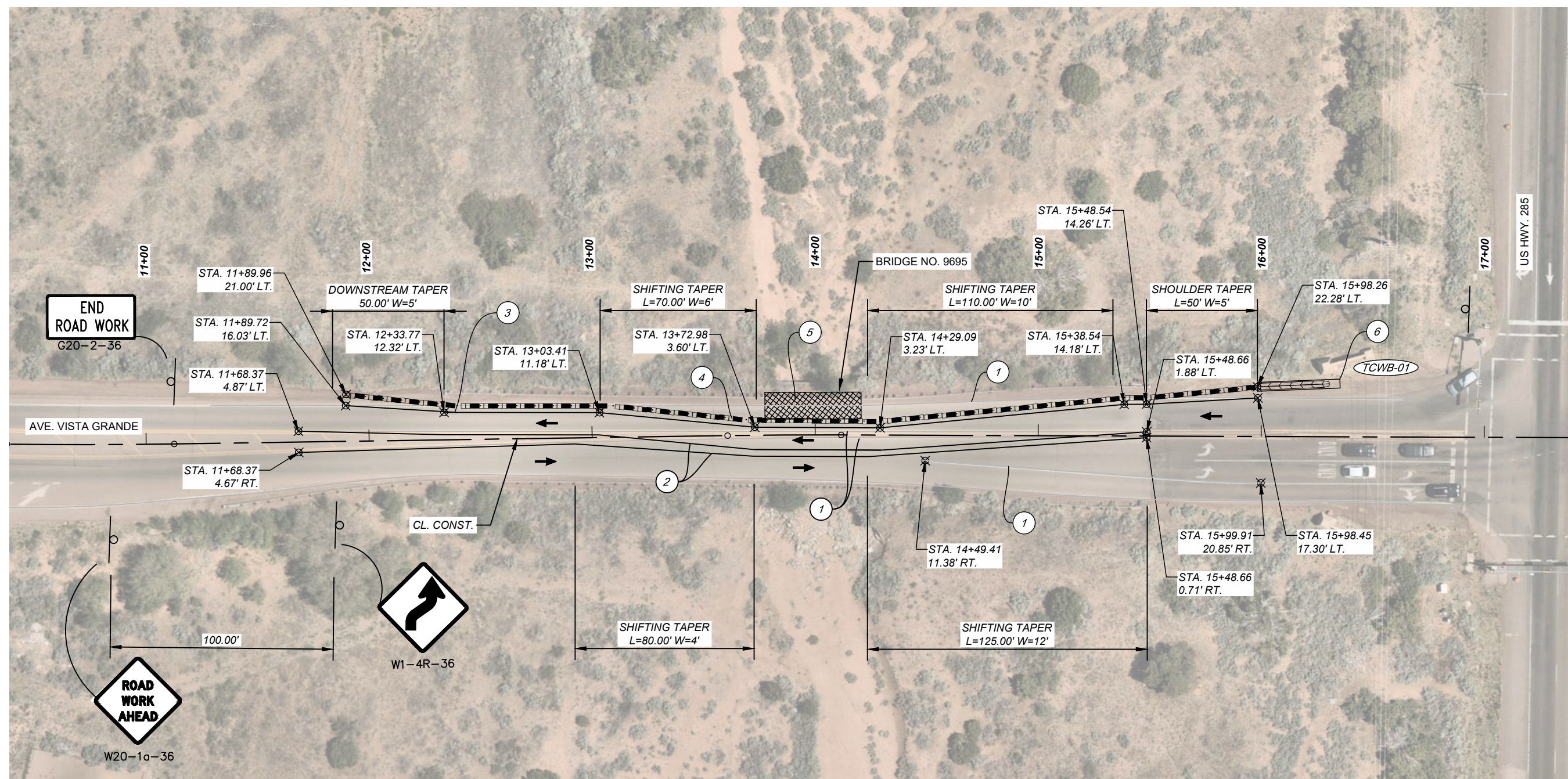
SUGGESTED TRAFFIC CONTROL PRE-PHASING -
FOR INSTALLING TRAFFIC CONTROL FOR PHASE A
(WESTBOUND WORK)

NOTES:

1. COVER OR REMOVE SIGNS EXCEPT DURING DETOUR USE.
2. PLAN SHOWN IS SCHEMATIC. REFER TO MUTCD FOR SIGN PLACEMENT. CONTRACTOR SHALL SUBMIT DETAILED PLAN FOR APPROVAL.
3. DETOUR OPERATIONS SHOULD TAKE PLACE OFF PEAK HOURS IF POSSIBLE.
4. SEE SHEET 6-3 TO SEE SUGGESTED DETOUR PLAN FOR THE REST OF THE PORTION. 6-4 SHEET SHALL BE USED IN COMBINATION WITH SHEET 6-3 FOR THE INSTALLATION OF TRAFFIC CONTROL PHASE A.



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				DATE	BY
				DESCRIPTION	
4	3	2	1	NO.	
AVENIDA VISTA GRANDE OVER SAN MARCOS ARROYO BRIDGE REHABILITATION SUGGESTED DETOUR OPERATIONS					



KEY NOTES:

- 1 OBLITERATE EXISTING STRIPING
- 2 4" TEMPORARY DOUBLE YELLOW STRIPING
- 3 4" TEMPORARY WHITE STRIPING
- 4 TEMPORARY CWB
- 5 WORK ZONE
- 6 VEHICULAR IMPACT ATTENUATOR UNIT

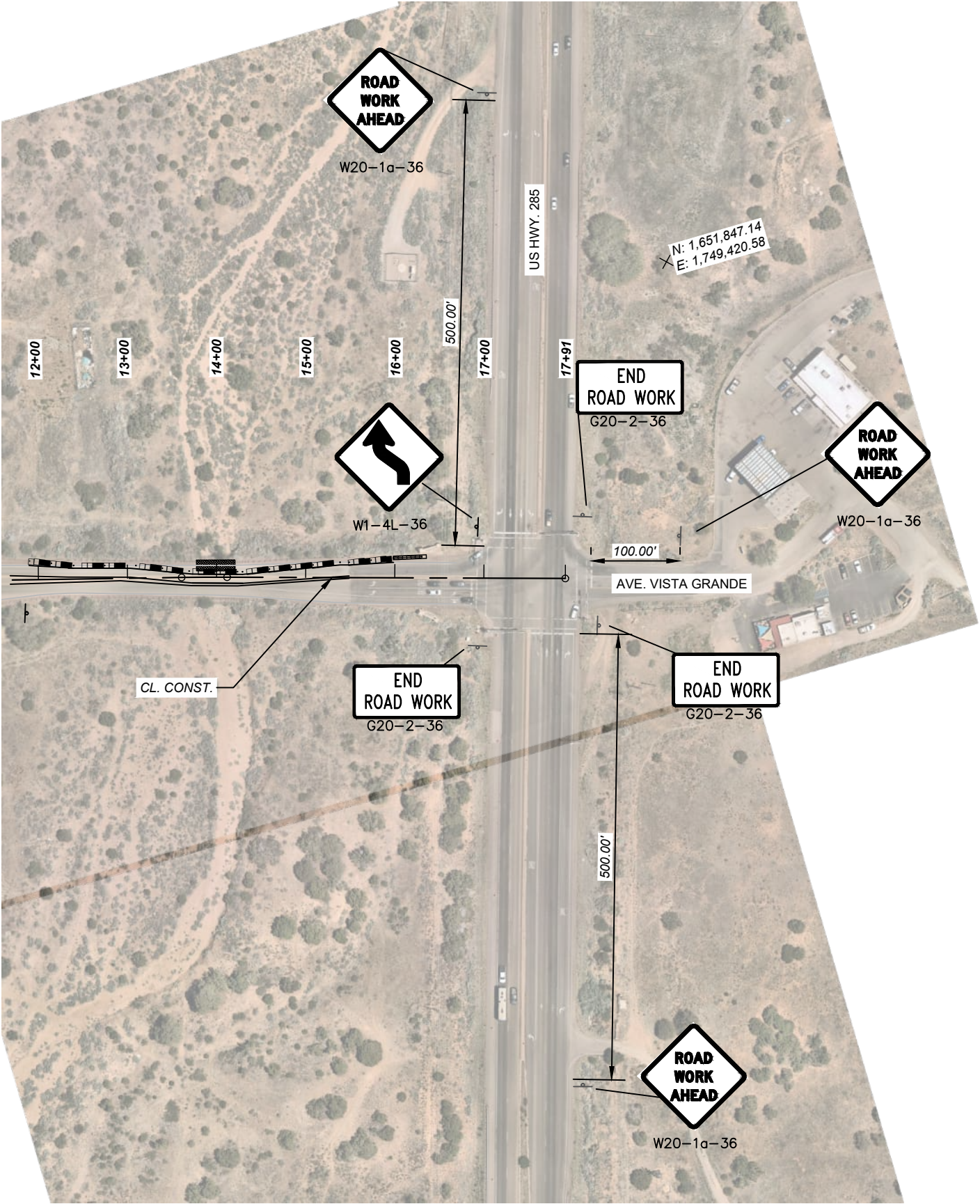


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AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
SUGGESTED TRAFFIC CONTROL - PHASE A

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SANTA FE, NM 87501-2061





AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
SUGGESTED TRAFFIC CONTROL - PHASE A

NO.	DESCRIPTION	DATE	BY
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- 1 OBLITERATE EXISTING STRIPING
- 2 4" TEMPORARY DOUBLE YELLOW STRIPING
- 3 4" TEMPORARY WHITE STRIPING
- 4 TEMPORARY CWB
- 5 WORK ZONE
- 6 VEHICULAR IMPACT ATTENUATOR UNIT

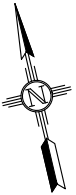
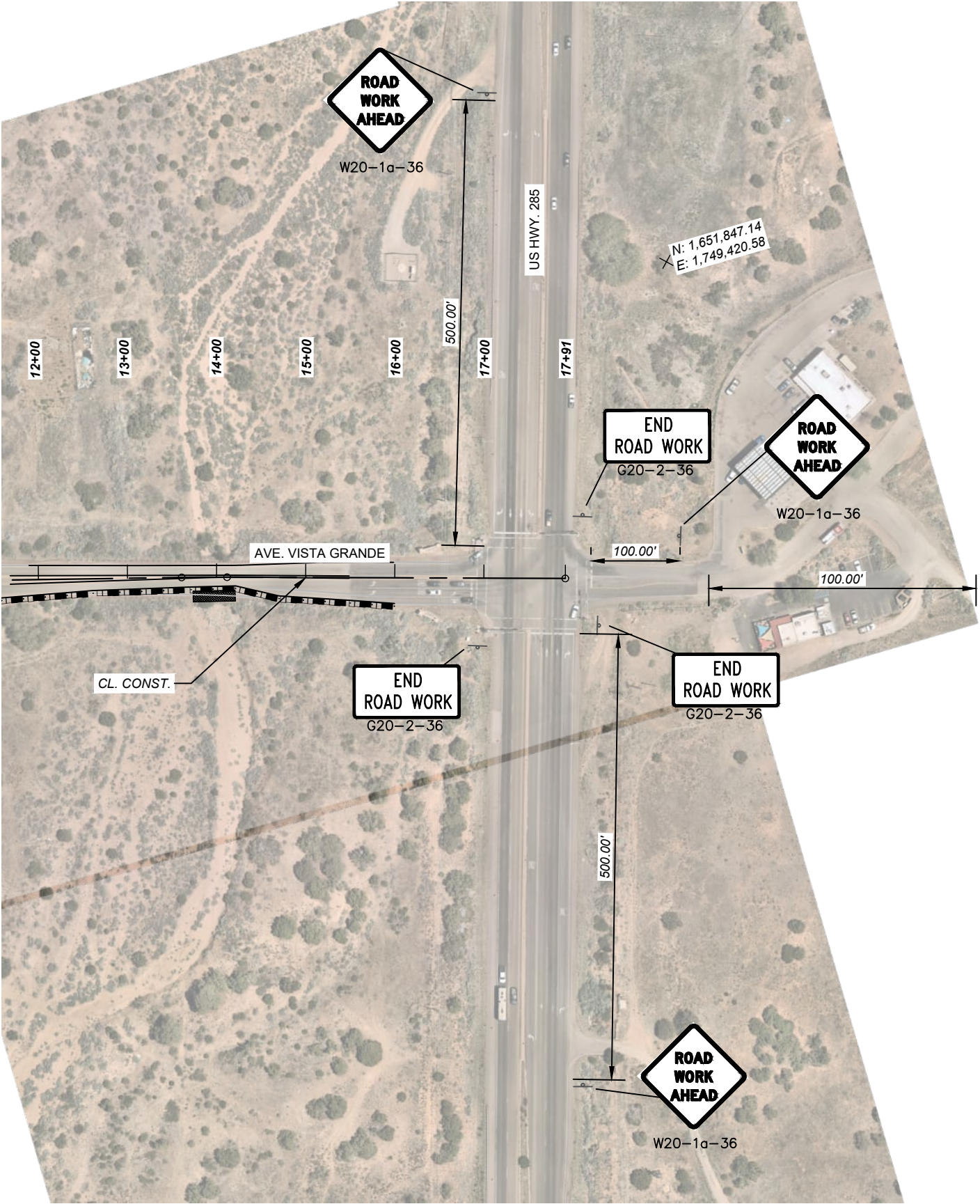


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AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
SUGGESTED TRAFFIC CONTROL - PHASE B

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SANTA FE, NM 87501-2061





AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
SUGGESTED TRAFFIC CONTROL - PHASE B

NO.	DESCRIPTION	DATE	BY
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PERMANENT SIGNING AND STRIPING NOTES

1. THE PERMANENT SIGNING AND STRIPING PLANS HAVE BEEN DESIGNED USING THE NMDOT STANDARD SPECIFICATIONS AND DETAILS. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE CURRENT NMDOT SPECIFICATIONS, SPECIAL PROVISION OR SUPPLEMENTAL PROVISION, AND COMPLY WITH THE CURRENT MUTCD IN USE BY THE NMDOT.
2. THE CONTRACTOR SHALL REMOVE EXISTING SIGN BASE POSTS, PAID UNDER ITEM NUMBER 601000.
3. SQUARE TUBING SHALL BE USED FOR SIGN POSTS AS APPROVED BY THE PROJECT MANAGER.

PERMANENT STRIPING SUMMARY OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNITS	PROJECT TOTAL
704000	RETROREFLECTORIZED PAINTED MARKINGS 4"	L.F.	5,600

PERMANENT SIGNING SUMMARY OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNITS	PROJECT TOTAL
701031	REMOVE AND RESET TRAFFIC SIGN	EACH	6
703002	OBJECT MARKER TYPE 2	EACH	8



AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO BRIDGE REHABILITATION
PERMANENT SIGNING AND STRIPING NOTES AND
QUANTITIES

NO.	DESCRIPTION	DATE	BY
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ITEM NO. 703002 OBJECT MARKER TYPE 2 (EACH)		
STATION	LOCATION	OM2-1V* QUANTITY
13+74.05	RT.	2
13+75.45	LT.	2
14+22.31	RT.	2
14+22.78	LT.	2
PROJECT TOTAL		8
PROJECT USE		8

NOTES:

1. PLACE PANEL SIGNS ON NEW POSTS AND BASE POSTS. INCIDENTAL TO BID ITEM 701031.

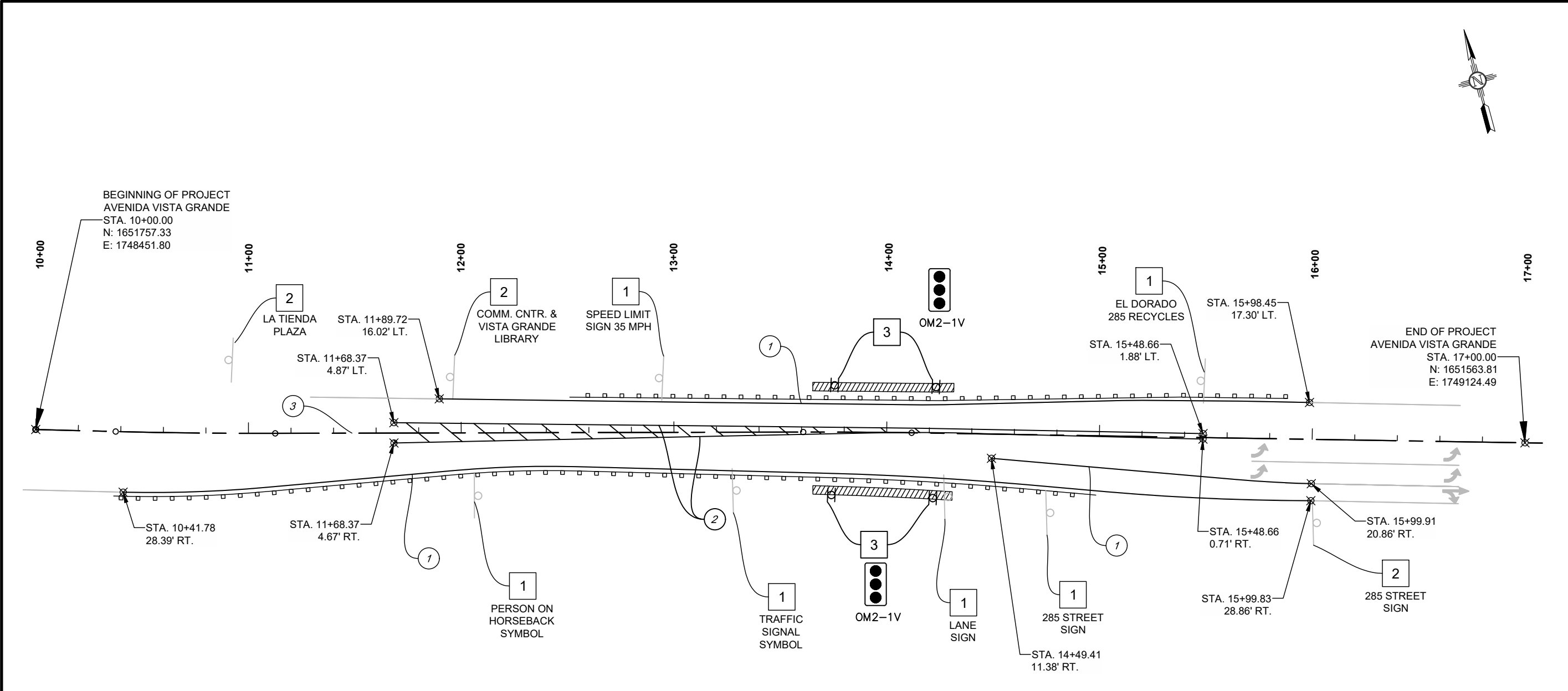
2. REMOVAL OF POSTS AND BASE POSTS INCIDENTAL TO BID ITEM 601000.

STATION	TO	STATION	LOCATION	704000				REMARKS
				RETROREFLECTORIZED PAINTED MARKINGS 4"				
				4" SOLID WHITE	4" SOLID YELLOW	4" SOLID DOUBLE YELLOW	TOTAL	
				L.F.	L.F.	L.F.	L.F.	
AVENIDA VISTA GRANDE								
10+41.78	-	15+99.83	RT.	560.00			560.00	SOLID WHITE SHOULDER STRIPING
11+68.37	-	15+48.66	RT.			762.00	762.00	SOLID DOUBLE YELLOW MEDIAN STRIPING
11+68.37	-	15+48.66	LT.			762.00	762.00	SOLID DOUBLE YELLOW MEDIAN STRIPING
11+68.37	-	15+48.66	MEDIAN		141.00		141.00	MEDIAN GORE MARKINGS
11+89.72	-	15+98.45	LT.	410.00			410.00	SOLID WHITE SHOULDER STRIPING
14+49.41	-	15+99.83	RT.	151.00			151.00	RIGHT TURN LANE STRIPING
PROJECT SUBTOTAL							2786.00	
PROJECT TOTAL							2,800	
(2X APPLICATION) PROJECT USE							5,600	

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NO.	DESCRIPTION	DATE	BY	

AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
PERMANENT SIGNING AND STRIPING QUANTITIES





STRIPING KEY NOTES:

- ① 4" SOLID WHITE RETROREFLECTORIZED PAINTED STRIPE
- ② 4" DOUBLE SOLID YELLOW RETROREFLECTORIZED PAINTED STRIPE
- ③ 4" SOLID YELLOW RETROREFLECTORIZED PAINTED STRIPE (GORE)

SIGNING KEY NOTES:

- ① REMOVE AND RESET EXISTING SIGN AND POST
- ② PROTECT IN PLACE EXISTING SIGN AND POST
- ③ INSTALL NEW OBJECT MARKER TYPE 2, DOUBLE SIDE MOUNT (BACK TO BACK)



AVENIDA VISTA GRANDE OVER
SAN MARCOS ARROYO
BRIDGE REHABILITATION
PERMANENT SIGNING AND STRIPING PLAN

4
3
2
1
NO.

DESCRIPTION	DATE	BY

