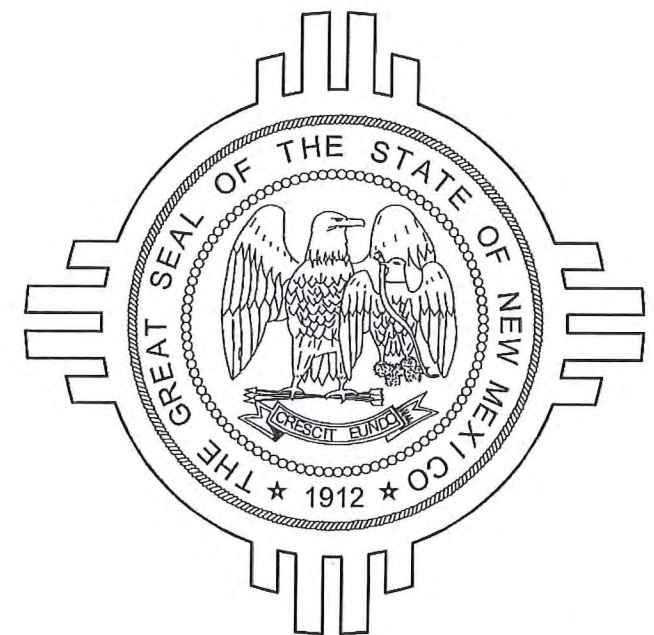
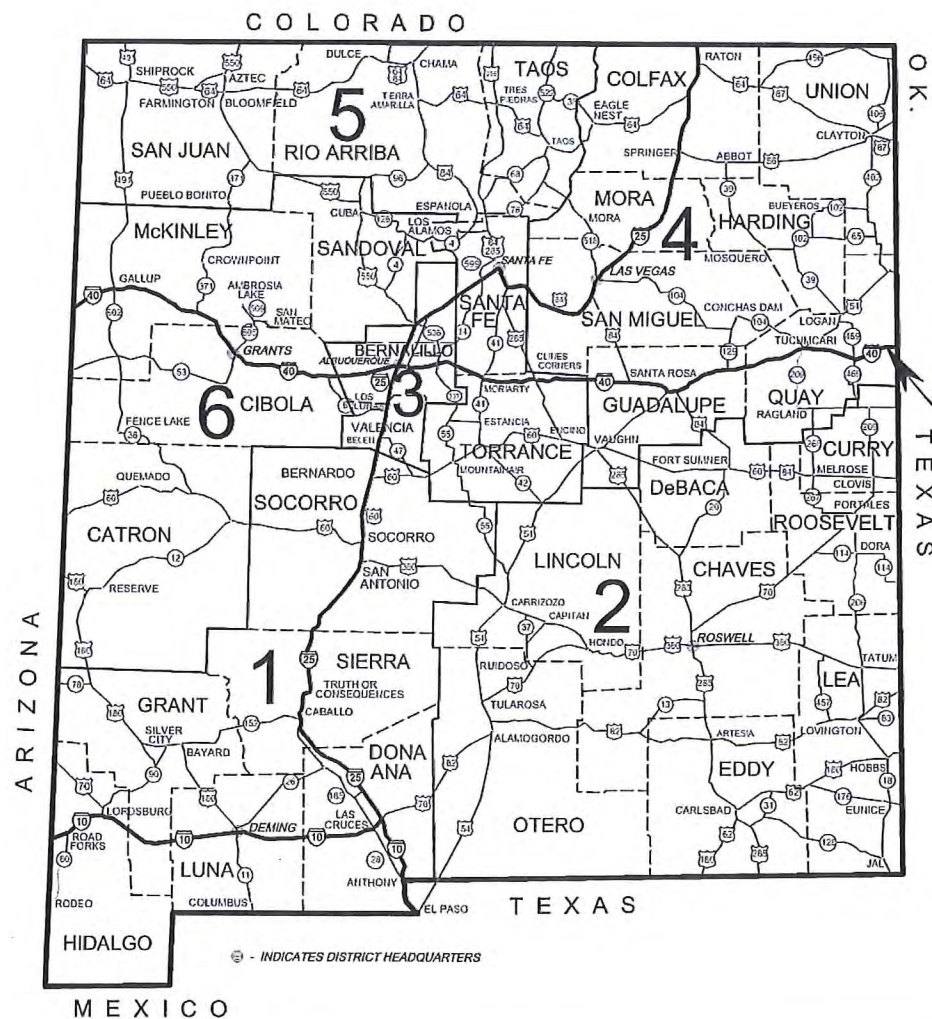


New Mexico

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLANS

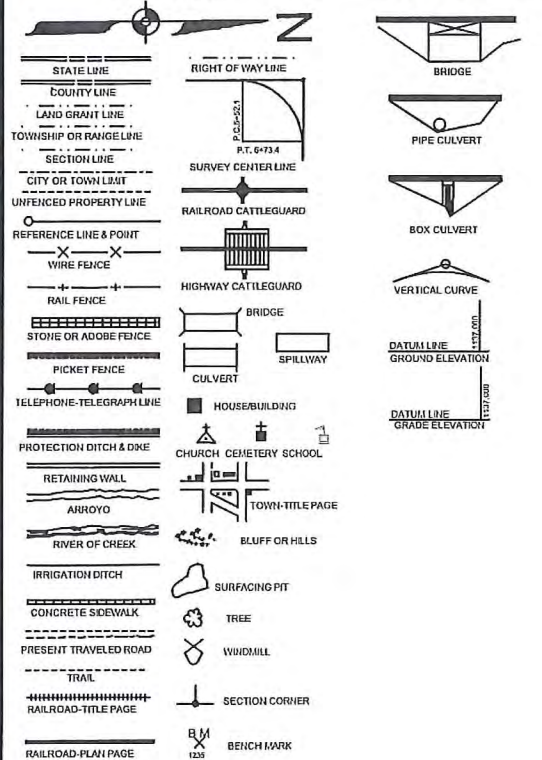
QUAY COUNTY
CN - 4101490



CN - 4101490
OVER I-40, NM-93, BRIDGE# 7345 MP 0.057 - MP 0.224
BRIDGE PREVENTATIVE MAINTENANCE



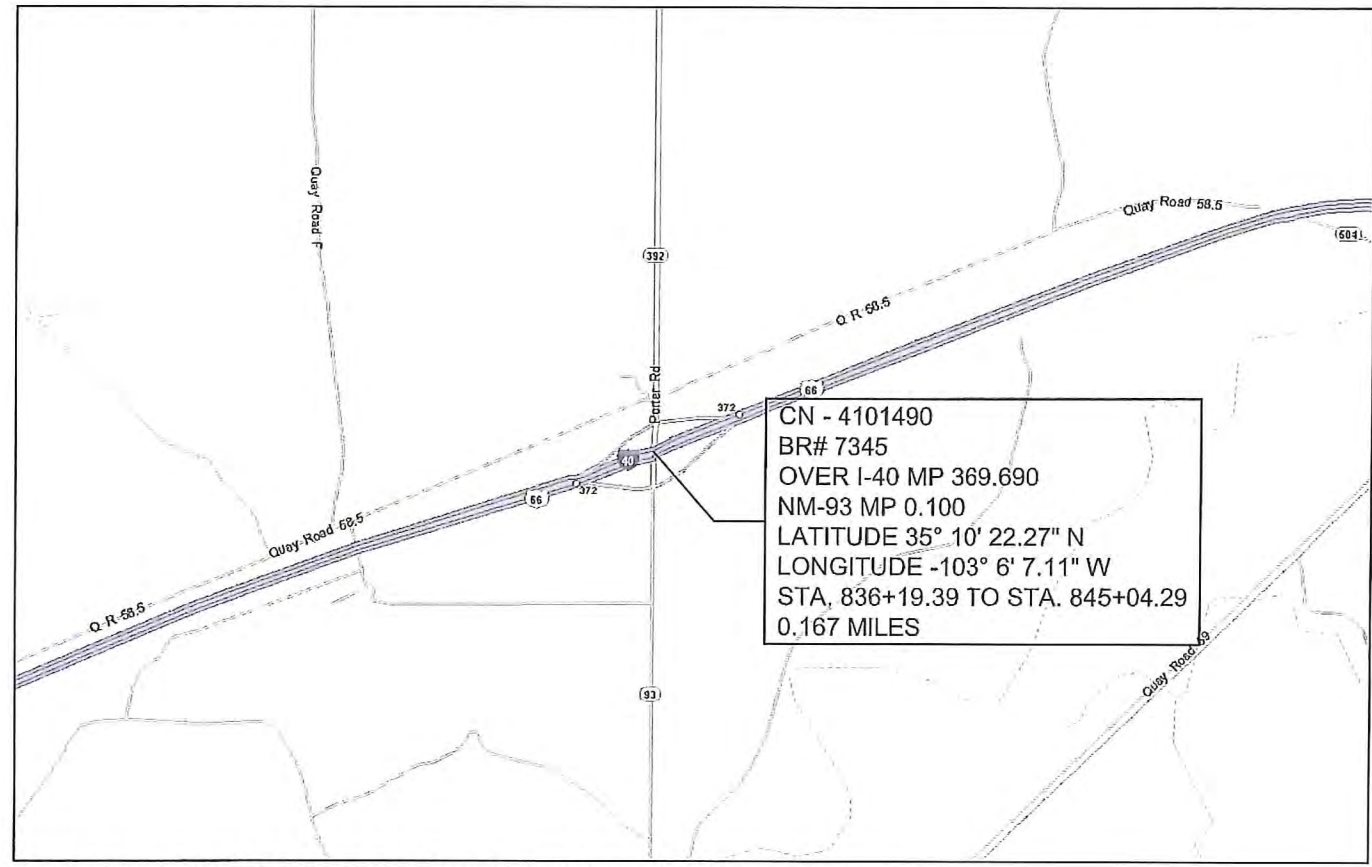
CONVENTIONAL ON PLAN **SIGNS ON PROFILE**



THIS PROJECT IS LOCATED WITHIN QUAY COUNTY
T. 11 N. R. 36 E. SECTION 15

Length Of Project 884.900 Feet = 0.167 Miles

NEW MEXICO PROJECT NO.	SHEET NO.
4101490	1-2



SHIPPING POINTS

TUCUMCARI, NM

NOTE: MILEPOSTS ARE FOR REFERENCE PURPOSES ONLY.

VICINITY MAP

INTENT OF PROJECT

THE INTENT OF THIS PROJECT IS BRIDGE PREVENTATIVE MAINTENANCE
 - REMOVE OLD DECK AND REPLACE USING PRECAST DECK PANELS,
 CONCRETE REPAIR TO COLUMNS, GIRDERS, ABUTMENTS, EPOXY
 OVERLAY, CLEAN AND PAINT BEARINGS, NEW BRIDGE RAIL, METAL
 BARRIER UPGRADES, SIGNING, TRAFFIC CONTROL, MISCELLANEOUS
 CONSTRUCTION & DETOUR CONSTRUCTION

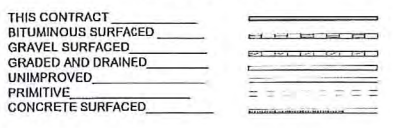


DISTRICT 4 CONTACTS

NAME	WORK PH.	TITLE
HEATHER SANDOVAL	505-617-5090	A.D.E ENGINEERING
CHRIS URIOSTE	505-617-0806	TECHNICAL SUPPORT ENGINEER
JOE GARCIA	505-490-2698	(ACTING) A.D.E CONSTRUCTION
DAVID GONZALES	575-461-4619	PROJECT MANAGER

THE 2014 EDITION OF NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SHALL GOVERN CONSTRUCTION OF THIS PROJECT.

LEGEND



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO DEPARTMENT OF TRANSPORTATION			
PROJECT VICINITY MAP			

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	REV. DATE	STANDARD DRAWING NO.
1-1	COVER SHEET		
1-2	PROJECT VICINITY MAP		
1-3	INDEX OF SHEETS		
1-4	SUMMARY OF QUANTITIES		
1-5	GENERAL NOTES		
1-6	ENVIRONMENTAL COMMITMENTS		
SUB-TOTAL = 6 SHEETS			
2-1	ROADWAY TYPICAL		
2-2	SHOULDER TYPICAL		
2-3	ACCEL & DECEL LANES TYPICALS		
2-4	DISTRESSED AREA TYPICAL		
2-5	SURFACING CONNECTION		
2-6	MISCELLANEOUS QUANTITIES		
2-7	MISCELLANEOUS QUANTITIES		
2-8	CONSTRUCTION ENGINEERING AND LUMP SUM ITEMS		
SUB-TOTAL = 8 SHEETS			
3-0	SURVEY CONTROL SHEET		
3-1	PLAN VIEW		
3-2	WB DETOUR ACCEL & DECEL LANES		
3-3	WB DETOUR ACCEL & DECEL LANES		
SUB-TOTAL = 4 SHEETS			
4 SHEETS	MISCELLANEOUS DETAILS NOT USED		
SUB-TOTAL = 0 SHEETS			
5-1 THRU 5-2	GENERAL NOTES		
5-3	ESTIMATED QUANTITIES		
5-4	STRUCTURE LOCATION PLAN		
5-5	BRIDGE PLAN		
5-6	BRIDGE PROFILE		
5-7	EXISTING TRANSVERSE SECTIONS		
5-8	PROPOSED TRANSVERSE SECTIONS		
5-9	FRAMING PLAN		
5-10	STEEL DIAPHRAGM DETAILS		
5-11	REMOVALS PLAN		
5-12	ABUTMENT REMOVALS		
5-13 THRU 5-14	ABUTMENT PLAN AND ELEVATIONS		
5-15 THRU 5-18	WINGWALL MODIFICATIONS		
5-19 THRU 5-22	PIER DETAILS		
5-23 THRU 5-28	BEARING DETAILS		
5-27	APPROACH SLAB DETAILS		
5-28	APPROACH SLAB SECTIONS		
5-29	SLEEPER FOOTER DETAILS		
5-30	PRECAST DECK PANEL FRAMING PLAN		
5-31	PRECAST DECK PANEL TOLERANCE		
5-32	LIFTING DEVICE AND VERTICAL ADJUSTMENT DETAILS		
5-33 THRU 5-34	TOP OF DECK ELEVATIONS		
5-35 THRU 5-38	DECK PANEL DETAILS - SPAN 1		
5-39 THRU 5-45	DECK PANEL DETAILS - SPAN 2		
5-46 THRU 5-49	DECK PANEL DETAILS - SPAN 3		
5-50 THRU 5-56	DECK PANEL DETAILS - SPAN 4		
5-57 THRU 5-59	DECK PANEL DETAILS - SPAN 5		
5-60 THRU 5-63	DECK PANEL DETAILS - LINK SLAB		
5-64 THRU 5-67	DECK PANEL DETAILS - APPROACH SLAB 1		
5-68 THRU 5-71	DECK PANEL DETAILS - APPROACH SLAB 2		
5-72 THRU 5-81	REINFORCING BAR SCHEDULES		
5-82 THRU 5-83	NM TYPE A42 METAL BRIDGE RAIL PLAN AND ELEVATION		
5-84	METAL RAILING NM TYPE A42 DETAILS OF POSTS ON BRIDGES AND APPROACH SLABS		
5-85	REINFORCING BAR SCHEDULE (CAST IN PLACE CONCRETE)		
5-86	UHPC BLOCKOUT DETAILS		
5-87	UHPC TRANSVERSE JOINT DETAILS		
5-88	ADJUSTMENT BOLT POINT LOCATIONS		
SUB-TOTAL = 88 SHEETS			
6-1	SEQUENCE OF CONSTRUCTION		
6-2 THRU 6-5	TRAIL BLAZING SIGNING		
6-6	TRAIL BLAZING SIGNING QUANTITIES		
6-7	INTERSTATE SPEED REDUCTION		
6-8	NM-392 TRAFFIC CONTROL PLAN		
6-9	ACCEL & DECEL TEMPORARY STRIPING		
6-10	CONSTRUCTION SIGNING QUANTITIES		
6-11	CONSTRUCTION SIGNING QUANTITIES		
6-12	TEMPORARY TRAFFIC CONTROL GENERAL NOTES		
6-13	TEMPORARY TRAFFIC CONTROL GENERAL NOTES		
6-14	CONSTRUCTION & MAINTENANCE SIGN FACE DETAILS		
6-15	CHANNELIZATION DEVICES FOR CONSTRUCTION, MAINTENANCE, UTILITY & INCIDENT MANAGEMENT OPERATIONS		
6-16	TEMPORARY TRAFFIC MARKINGS FOR CONSTRUCTION		
6-17	DOUBLE FINES IN WORK ZONES SIGNING LAYOUT		
6-18	DOUBLE FINES IN WORK ZONES SIGN FACE DETAILS		
6-19	BOPE/OP SIGNING (2 LANE)		
6-20	BOPE/OP SIGNING (4 LANE)		
6-21	INSIDE LANE/MEDIAN AND OUTSIDE LANE OPERATIONS (INTERSTATE, 75 MPH)		
6-22	MEDIAN CONSTRUCTION AND OUTSIDE LANE AND SHOULDER OPERATIONS (45 MPH)		
6-23	TWO LANE ROADWAY WITH ONE-LANE CLOSURE, FLAGMAN, PILOT CAR (45 MPH)		
6-24	MAINTENANCE TRAFFIC CONTROL PLANS, MOBILE OPERATION ON SHOULDER & TWO LANE		
SUB-TOTAL = 24 SHEETS			
7-1	PERMANENT SIGNING		
7-2	PERMANENT SIGNING QUANTITIES		
7-3	PERMANENT SIGNING QUANTITIES		
7-4	PERMANENT SIGNING QUANTITIES		
7-5	PERMANENT SIGNING NOTES		
SUB-TOTAL = 5 SHEETS			
8 SHEETS	NOT USED		
SUB-TOTAL = 0 SHEETS			
9 SHEETS	NOT USED		
SUB-TOTAL = 0 SHEETS			
10 SHEETS	NOT USED		
SUB-TOTAL = 0 SHEETS			
11 SHEETS	NOT USED		
SUB-TOTAL = 0 SHEETS			

SHEET NO.	DESCRIPTION	REV. DATE	STANDARD DRAWING NO.
12-1	RUNDOWN FLUME TYPE I FOR MOORED OF PINNED CURB WITH HALF PIPE RUNDOWN	4/3/2012	515-02-1/2
12-2	ALTERNATE RUNDOWN FOR RUNDOWN FLUMES TYPE I TYPE I TYPE II FULL PIPE, CONCRETE AND RIPRAP	4/3/2012	515-02-2/2
12-3	RUNDOWN FLUMES TYPE II FOR BRIDGES	4/3/2012	515-04-1/2
12-4	ESTIMATED QUANTITIES FOR RUNDOWN FLUMES	4/3/2012	515-04-2/2
12-5	METAL RAILING NM TYPE A42 DETAILS OF POSTS ON BRIDGE, WINGWALLS AND APPROACH SLABS	9/23/2014	543-07-1/4
12-6	METAL RAILING NM TYPE A42 RAILING ELEVATION AND RAIL EXPANSION JOINT DETAIL	9/23/2014	543-07-2/4
12-7	METAL RAILING NM TYPE A42 GENERAL NOTES AND DETAILS OF RAIL TO POST CONNECTION AND GUTTER DETAILS	9/23/2014	543-07-3/4
12-8	METAL RAILING NM TYPE A42 DETAILS OF POSTS ON BRIDGE, WINGWALLS AND APPROACH SLABS	9/23/2014	543-07-4/4
12-9	PERFORMED CLOSED SELL FOAM BRIDGE JOINT SEAL	6/24/2013	564-01-1/1
12-10	W-BEAM GUARDRAIL	5/6/2014	606-GR31-1/20
12-11	THREE BEAM GUARDRAIL	5/6/2014	606-GR31-2/20
12-12	BEAM GUARDRAIL ELEMENTS	5/6/2014	606-GR31-3/20
12-13	BEAM GUARDRAIL POSTS AND BLOCKS	5/6/2014	606-GR31-4/20
12-14	GUARDRAIL POST DETAILS IN ROCK FORMATION & IN MOW STRIP APPLICATION	5/6/2014	606-GR31-5/20
12-15	TYPICAL INSTALLATION AND SURFACING DETAILS	5/6/2014	606-GR31-6/20
12-16	END TREATMENT TL-3 END TERMINAL	5/6/2014	606-GR31-7/20
12-17	END TREATMENT TL-2 END TERMINAL	5/6/2014	606-GR31-8/20
12-18	END TREATMENT W-BEAM END ANCHOR & THREE BEAM END ANCHOR	5/6/2014	606-GR31-9/20
12-19	END TREATMENT DRIVEWAY END ANCHOR	5/6/2014	606-GR31-10/20
12-20	END TREATMENT W-BEAM END ANCHOR DETAILS	5/6/2014	606-GR31-11/20
12-21	END TREATMENT THREE BEAM END ANCHOR DETAILS	5/6/2014	606-GR31-12/20
12-22	END TREATMENT DRIVEWAY END ANCHOR DETAILS	5/6/2014	606-GR31-13/20
12-23	CURVED GUARDRAIL DETAILS	5/6/2014	606-GR31-14/20
12-24	MEDIAN PROTECTION SYSTEM	5/6/2014	606-GR31-15/20
12-25	DRAINAGE STRUCTURE PROTECTION SYSTEM	5/6/2014	606-GR31-16/20
12-26	TRANSITION - METAL BARRIER TO RIGID BARRIER	5/6/2014	606-GR31-17/20
12-27	EXISTING BEAM GUARDRAIL TO 31" BEAM GUARDRAIL TRANSITION	5/6/2014	606-GR31-18/20
12-28	THREE BEAM GUARDRAIL END SECTIONS	5/6/2014	606-GR31-19/20
12-29	W-BEAM GUARDRAIL END SECTIONS	5/6/2014	606-GR31-20/20
12-30	SMALL SIGN SUPPORT INSTALLATION DETAILS	1/11/2005	701-02-1/3
12-31	SMALL SIGN SUPPORT INSTALLATION DETAILS	2/3/2005	701-02-2/3
12-32	MULTI-DIRECTIONAL SLIP BASE POST DETAILS	1/11/2005	701-02-3/3
12-33	ALUMINUM SIGN PANEL DETAILS	1/11/2005	701-03-1/2
12-34	ALUMINUM SIGN PANEL DETAILS	1/11/2005	701-03-2/2
12-35	TYPICAL WRONG WAY SIGNING FOR DIAMOND INTERCHANGE ONLY	12/7/2017	701-18-1/2
12-36	TYPICAL WRONG WAY SIGNING FOR DIAMOND INTERCHANGE ONLY	12/7/2017	701-18-2/2
12-37	ROAD OBJECT MARKER DETAILS	3/14/2005	703-01-1/3
12-38	ROAD DELINEATOR - GUIDE DETAILS	1/11/2005	703-01-2/3
12-39	DELINEATORS AND OBJECT MARKERS	1/11/2005	703-01-3/3
12-40	METHODS FOR DEVELOPING SUPERELEVATED ROADWAY SECTIONS	11/29/2004	801-01-1/4
12-41	METHODS FOR DEVELOPING SUPERELEVATED ROADWAY SECTIONS	11/29/2004	801-01-2/4
12-42	METHODS FOR DEVELOPING SUPERELEVATED ROADWAY SECTIONS	11/29/2004	801-01-3/4
12-43	METHODS FOR DEVELOPING SUPERELEVATED ROADWAY SECTIONS	11/29/2004	801-01-4/4
SUB-TOTAL = 43 SHEETS			
PROJECT SHEETS TOTAL = 178 SHEETS			



4			
3			
2			
1			
NO	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO DEPARTMENT OF TRANSPORTATION			
INDEX OF SHEETS			

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNITS	ROADWAY		BRIDGE		CONSTRUCTION ENGINEERING		CONSTRUCTION SIGNING		PERMANENT SIGNING		PROJECT TOTAL	
			ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL
203000	UNCLASSIFIED EXCAVATION	CU. YD.	869										869	
203211	UNSTABLE SUBGRADE STABILIZATION	SQ. YD.	218										218	
207000	SUBGRADE PREPARATION	SQ. YD.	1,574										1,574	
210002	MAJOR STRUCTURES EXCAVATION	CU. YD.			500								500	
210003	MAJOR STRUCTURES BACKFILL	CU. YD.			440								440	
303010	BASE COURSE	CU. YD.	625										625	
407000	ASPHALT MATERIAL FOR TACK COAT	TON	1										1	
408100	PRIME COAT MATERIAL	TON	3										3	
416000	MINOR PAVEMENT	SQ. YD.	1,574										1,574	
451080	CONCRETE PAVEMENT 8"	SQ. YD.	2,175										2,175	
452000	SEALING CONCRETE PAVEMENT JOINTS	LIN. FT.	602										602	
455000	DIAMOND GRINDING OF PCCP	SQ. YD.			1,410								1,410	
511200	STRUCTURAL CONCRETE, CLASS A-4"	SQ. YD.			50								50	
512006	SPECIAL CONCRETE	CU. YD.			30								30	
512008	ULTRA HIGH PERFORMANCE CONCRETE	CU. YD.			40								40	
515000	REINFORCED CONCRETE FOR MINOR STRUCTURES	CU. YD.			25								25	
516000	FLOWABLE FILL	CU. YD.			20								20	
518299	PRECAST DECK PANEL 8 IN. DEPTH	SQ. FT.			10,653								10,653	
518303	PRECAST DECK PANEL 10 IN. DEPTH	SQ. FT.			1,288								1,288	
529000	PIER AND ABUTMENT BEARING MODIFICATIONS	L.S.			L.S.								L.S.	
532000	PENETRATING WATER REPELLENT TREATMENT	SQ. YD.			520								520	
533000	REPAIR OF CONCRETE STRUCTURES	SQ. YD.	50		10								60	
533003	REPLACEMENT REINFORCING BARS	LBS			100								100	
534000	EPOXY INJECTION, TYPE I	GAL.			6								6	
536001	EPOXY URETHANE POLYMER CONCRETE BRIDGE DECK OVERLAY	SQ. YD.			1,410								1,410	
540180	EPOXY COATED REINFORCING BARS GRADE 60	LBS			2,300								2,300	
541000	STRUCTURAL STEEL FOR CONCRETE BRIDGES	LBS			30,770								30,770	
543002	METAL RAILING, TYPE A42	LIN. FT.			736								736	
547000	SAFETY AND ENVIRONMENTAL REQUIREMENTS	L.S.					L.S.						L.S.	
585000	PREFORMED SILICONE-COATED FOAM JOINT SYSTEM	LIN. FT.			75								75	
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	L.S.		L.S.								L.S.	
601110	REMOVAL OF SURFACING	SQ. YD.	2,773										2,773	
602000	RIPRAP CLASS A	CU. YD.			10								10	
602080	RIPRAP CLASS G	SQ. YD.			80								80	
606001	SINGLE FACE W-BEAM GUARDRAIL	LIN. FT.	262.50										262.50	
606051	END TREATMENT TL-3 END TERMINAL	EACH	4										4	
606082	TRANSITION METAL BARRIER TO RIGID BARRIER	EACH	4										4	
618000	TRAFFIC CONTROL MANAGEMENT	L.S.					L.S.						L.S.	
618011	PUBLIC AWARENESS	L.S.					L.S.						L.S.	
621000	MOBILIZATION	L.S.	L.S.										L.S.	
622002	FIELD LABORATORY, TYPE II	EACH					1						1	
622100	SUPPLEMENTAL FIELD LABORATORY	EACH					1						1	
622110	SUPPLEMENTAL HOT-MIX ASPHALT FIELD LABORATORY	EACH					1						1	
701000	PANEL SIGNS	SQ. FT.								721			721	
701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	LIN. FT.								1,178			1,178	
702810	PORTABLE CHANGEABLE MESSAGE SIGN	EACH							6				6	
702812	PORTABLE FLOODLIGHT SYSTEM	EACH							8				8	
702813	SPEED DETECTOR RADAR TRAILER	EACH							2				2	
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	L.S.							L.S.				L.S.	
702850	LAW ENFORCEMENT IN CONSTRUCTION ZONE	ALLOW					ALLOW						ALLOW	
704000	RETROREFLECTORIZED PAINTED MARKINGS 4"	LIN. FT.								247,422			247,422	
704002	RETROREFLECTORIZED PAINTED MARKINGS 6"	LIN. FT.								30,462			30,462	
704011	RETROREFLECTORIZED PAINTED MARKING THRU ARROW	EACH								2			2	
704030	RETROREFLECTORIZED PAINTED MARKING WRONG WAY ARROW	EACH								4			4	
704099	TEMPORARY STRIPING	LIN. FT.							249,530				249,530	
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	L.S.					L.S.						L.S.	
802000	POST CONSTRUCTION PLANS	L.S.					L.S.						L.S.	



6/13/18

4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO DEPARTMENT OF TRANSPORTATION			
SUMMARY OF QUANTITIES			

GENERAL NOTES

1. R-VALUE. FILL MATERIAL FOR THIS PROJECT TO HAVE AN R-VALUE OF 25 OR BETTER.



6-12-18

NO.	DESCRIPTION	DATE	BY
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT
OF TRANSPORTATION

GENERAL NOTES

ENVIRONMENTAL COMMITMENTS

THE CONTRACTOR SHALL REFER TO SECTION 107 OF THE STANDARD SPECIFICATIONS, MAKING SPECIAL NOTE OF SUB-SECTION 107.14 "CONTRACTOR'S RESPONSIBILITIES FOR ENVIRONMENTAL AND CULTURAL RESOURCE PROTECTION".

NO ADDITIONAL PROJECT SPECIFIC ENVIRONMENTAL REQUIREMENTS APPLY.

IN ADDITION TO SECTION 107, THE FOLLOWING PROJECT-SPECIFIC ENVIRONMENTAL REQUIREMENTS APPLY.

1. **Migratory Bird Treaty Act Compliance:** The Contractor shall contact the Project Manager before February 15 to request a migratory bird nest survey. Failure by the Contractor to timely request the migratory bird survey may impact the Contractor's construction schedule and no additional time or compensation will be granted. The Contractor shall comply with the Migratory Bird Treaty Act (MBTA) at all times. Following receipt of Notice to Proceed (NTP), the Contractor shall be responsible for maintaining nest-free conditions. The Contractor's personnel shall keep detailed logs of nest inspections and removals. Some bird species are capable of building a nest in as little as five (5) days. As an alternative to on-going nest monitoring and removal, the Contractor may propose to prevent migratory birds from nesting by implementing techniques such as netting following unoccupied nest removal. If the Contractor's nest exclusion measures have failed and occupied nests are present, the nests must be avoided until the juvenile birds have fledged (flown from the nest). Once a nest is occupied (containing eggs and/or young), it cannot be removed without a US Fish and Wildlife Service (USFWS) permit. If nest avoidance is not feasible and relocation must occur, nest-disturbance activities shall be suspended at the Contractor's expense while the process for nest relocation or removal is coordinated between the NMDOT and the USFWS. If the USFWS denies the relocation or removal permit request, the Project suspension shall continue until after the migratory bird nesting season ends, or after all young have left the nest as determined by the Project Manager, through consultation with the Environmental Bureau.


 ENVIRONMENTAL BUREAU MANAGER

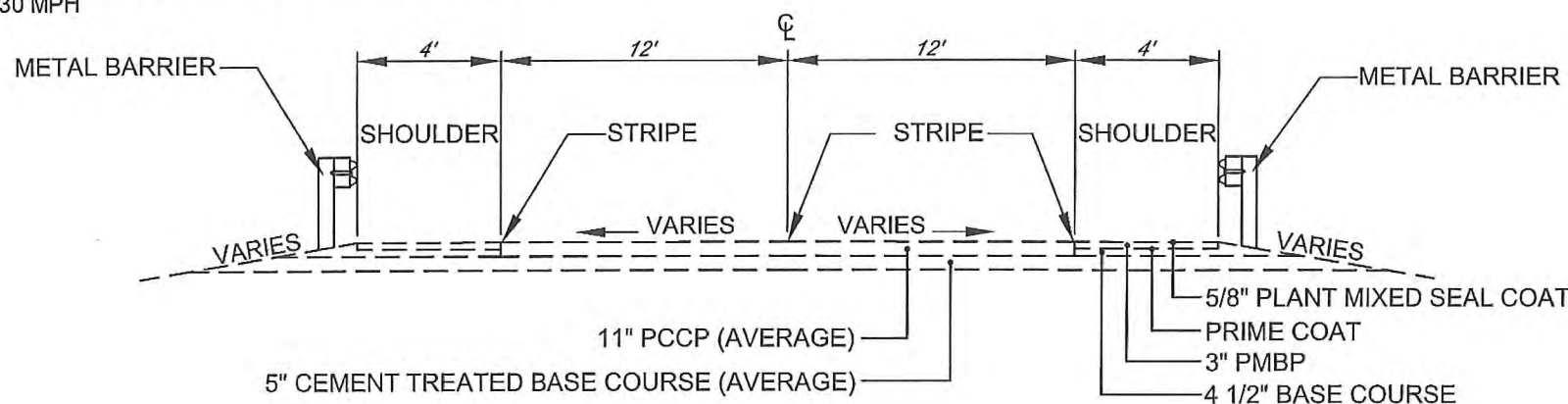
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO DEPARTMENT OF TRANSPORTATION			
ENVIRONMENTAL COMMITMENTS			

LENGTH OF PROJECT

STATION	TO	STATION	MILES	LIN. FT.	REMARKS
10+38.33	TO	16+33.66	(0.113)	(595.33)	WB ON RAMP
16+93.48	TO	21+93.48	(0.195)	(500.00)	WB OFF RAMP
-	TO	-		(250.00)	NORTH TO TRUCK STOP
836+19.39	TO	838+83.39	0.050	264.00	NM-93
838+83.39	TO	842+04.29	0.060	320.90	BRIDGE No. 7345
842+04.29	TO	845+04.29	0.057	300.00	NM-93
TOTAL LENGTH OF PROJECT			0.167	884.90	

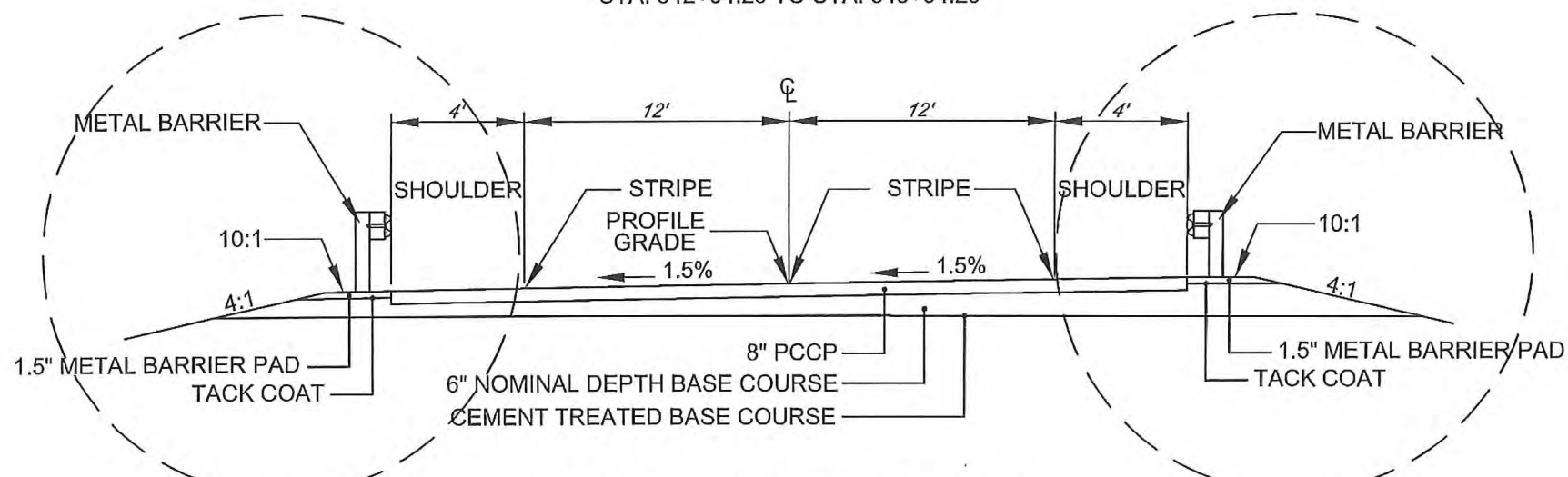
LENGTHS SHOWN IN PARENTHESIS ARE FOR INFORMATION ONLY

* DESIGN SPEED: 30 MPH



**BRIDGE ROADWAY APPROACH
EXISTING TYPICAL**

STA. 836+19.39 TO STA. 838+83.39
STA. 842+04.29 TO STA. 845+04.29



**BRIDGE ROADWAY APPROACH
PROPOSED TYPICAL**

STA. 836+19.39 TO STA. 838+83.39
STA. 842+04.29 TO STA. 845+04.29

SEE DETAIL SHEET 2-2
EASTERN SHOULDER

SEE DETAIL SHEET 2-2
WESTERN SHOULDER

**NEW MEXICO DEPARTMENT OF TRANSPORTATION
TRAFFIC VOLUME ESTIMATES**

PROJECT CN 4101490 ROAD NO. IX40P369.0-A CN 4101490

TERMINI Begin MP 0 End MP 0.345

BMP 0.000 LENGTH (MILES) 0.345

AADT (201 ACTUAL) 458

AADT (2017) 469 DHV (2017) 52

AADT () DHV ()

AADT (2027) 527 DHV (2027) 58

AADT (2037) 584 DHV (2037) 64

AADT (204 DESIGN) 641 DHV (2047) 71

% HEAVY COMMERCIAL (2017) ACTUAL 69.00%

% HEAVY COMMERCIAL (2047) DESIGN 87.34%

% HEAVY COMMERCIAL DURING DHV 84.34%

ESALS (20 YR. CUM.) 5,037,308

NOISE MODEL DATA (% MEDIUM TRUCKS DURING DHV)

(% HEAVY TRUCKS DURING DHV)

* ESAL FOR I-40 ON AND OFF RAMP



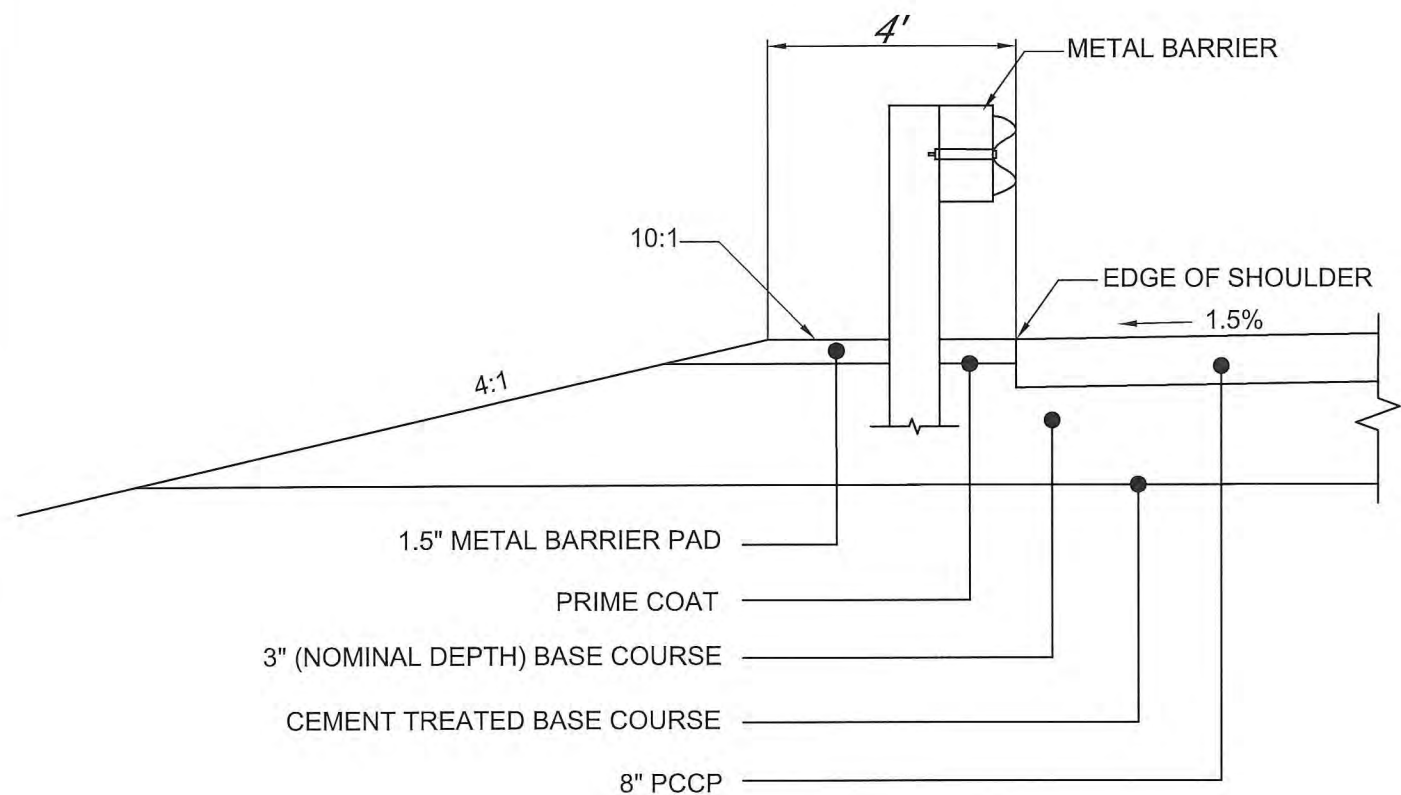
6-12-18

NO.	DESCRIPTION	DATE	BY
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

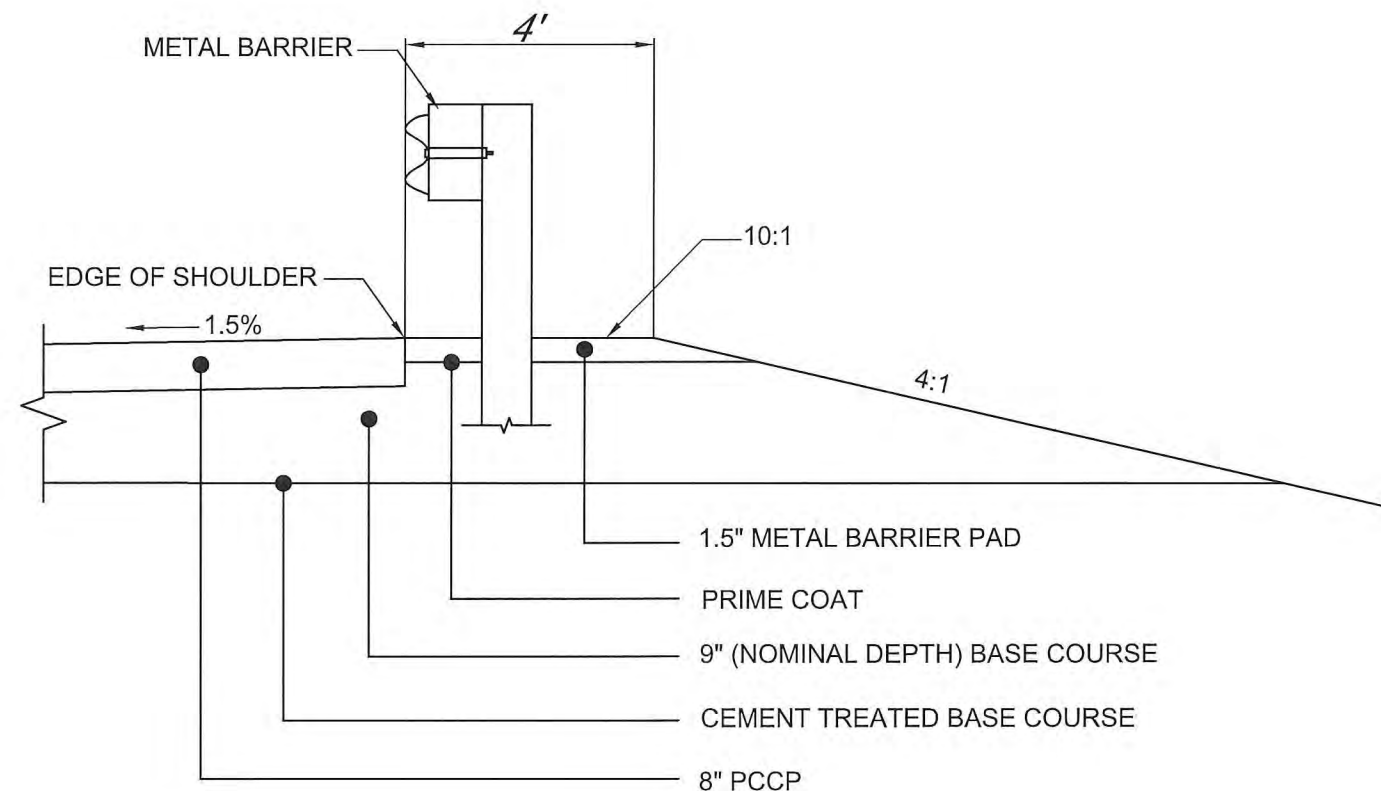
NEW MEXICO DEPARTMENT
OF TRANSPORTATION

ROADWAY TYPICALS



**EASTERN SHOULDER
PROPOSED TYPICAL**

STA. 836+19.39 TO STA. 838+83.39
STA. 842+04.29 TO STA. 845+04.29



**WESTERN SHOULDER
PROPOSED TYPICAL**

STA. 836+19.39 TO STA. 838+83.39
STA. 842+04.29 TO STA. 845+04.29

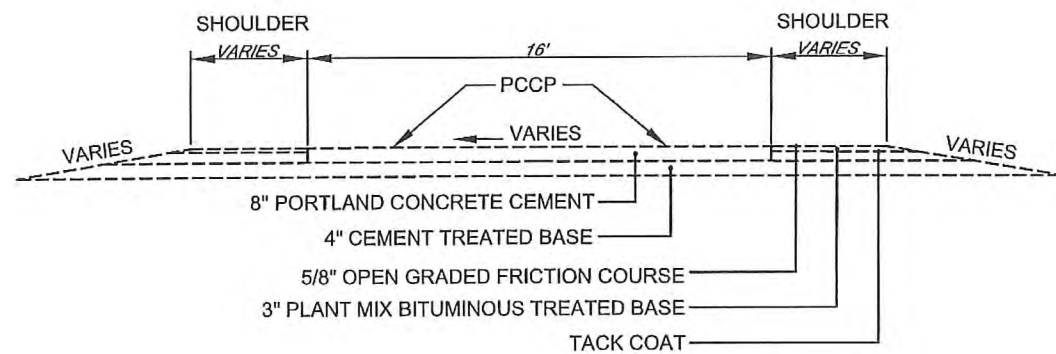


4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

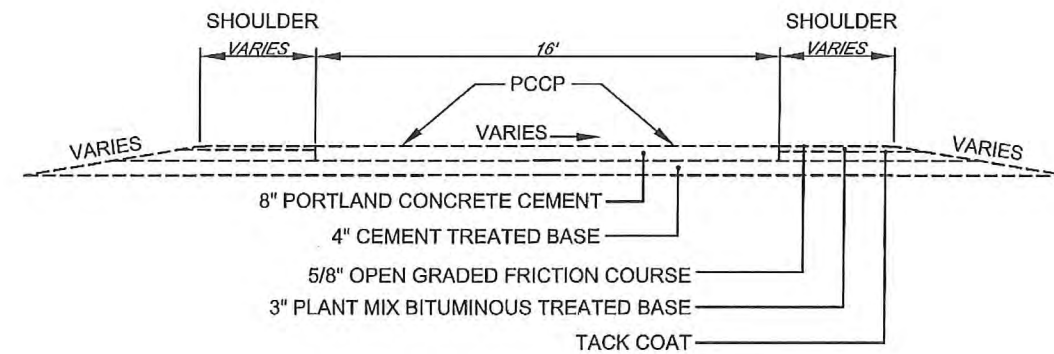
NEW MEXICO DEPARTMENT
OF TRANSPORTATION

SHOULDER TYPICAL



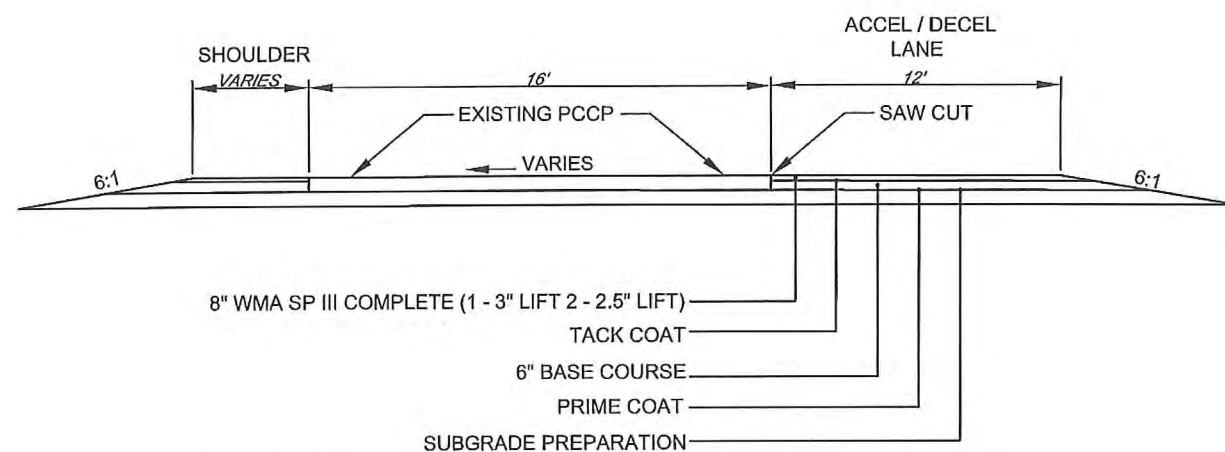
EXISTING RAMP TYPICAL SECTION

WEST BOUND ON RAMP
 STA. 10+38.33 TO STA. 16+33.66
 NORTH TO TRUCK STOP



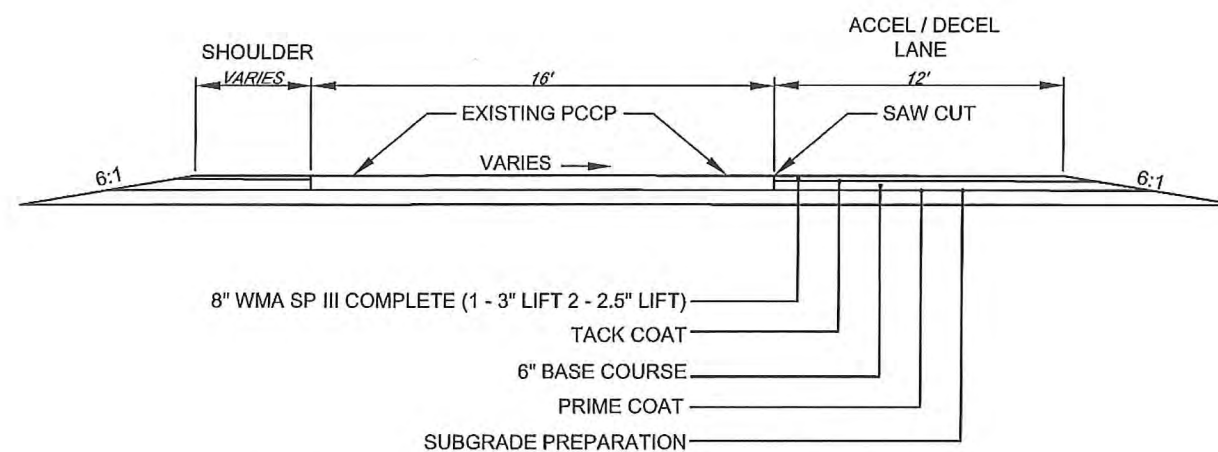
EXISTING RAMP TYPICAL SECTION

WEST BOUND OFF RAMP
 STA. 16+93.48 TO STA. 21+93.48



PROPOSED ACCELERATION AND DECELERATION LANES TYPICAL SECTION

WEST BOUND ON RAMP
 STA. 10+38.33 TO STA. 16+33.66
 NORTH TO TRUCK STOP



PROPOSED ACCELERATION AND DECELERATION LANES TYPICAL SECTION

WEST BOUND OFF RAMP
 STA. 16+93.48 TO STA. 21+93.48



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT
 OF TRANSPORTATION

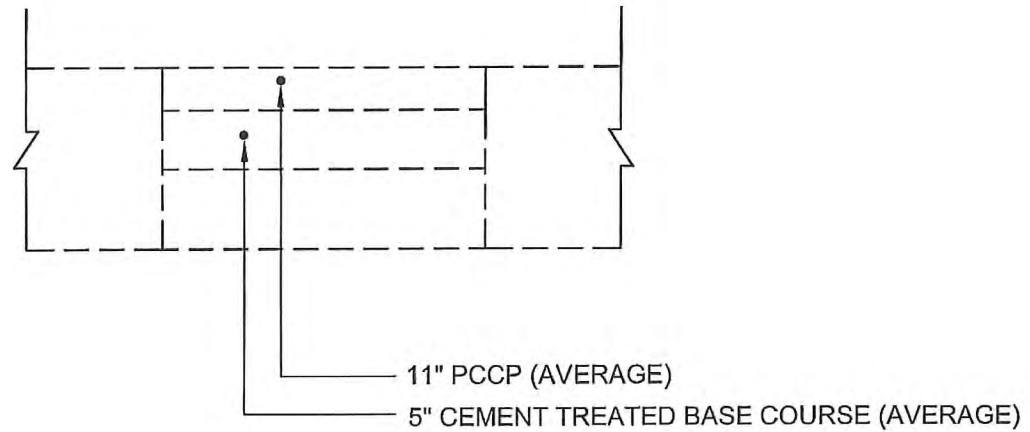
ACCEL & DECEL LANES
 TYPICALS

J. GARCIA SAIZ
 10/11/18

TYPICAL DETAIL FOR RECONSTRUCTION AT DISTRESSED AREAS

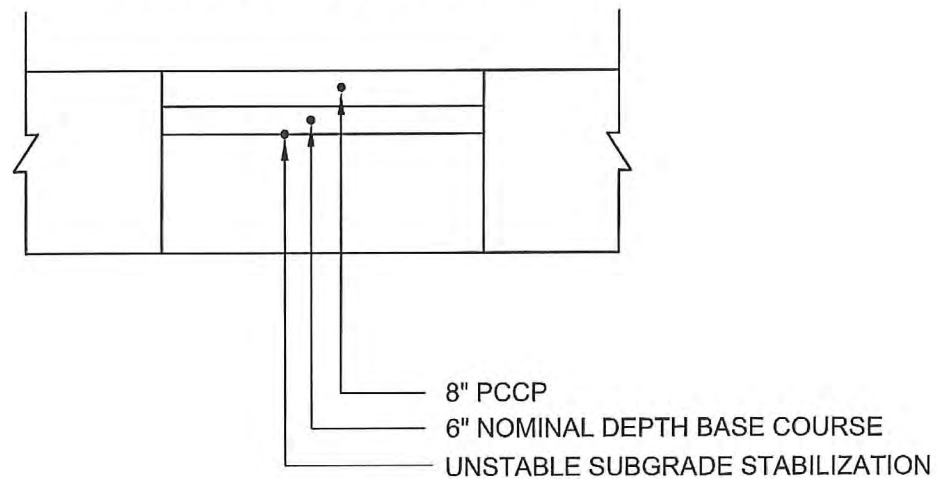
EXISTING APPROACH ROADWAY

STA. 835+83.39 TO STA. 838+83.39
STA. 842+04.29 TO STA. 845+04.29



PROPOSED APPROACH ROADWAY

STA. 835+83.39 TO STA. 838+83.39
STA. 842+04.29 TO STA. 845+04.29



NOTES

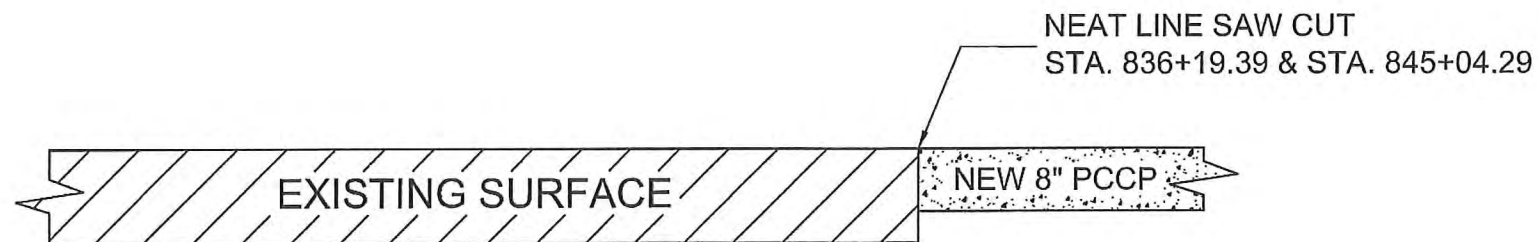
- NOTE 1: LOCATIONS OF DISTRESSED AREAS WILL BE DETERMINED BY THE PROJECT MANAGER.
- NOTE 2: NOMINAL DEPTH OF PCCP WAS TAKEN FROM CORE DATA. CORE DATA WILL BE AVAILABLE AT PROJECT OFFICE UPON REQUEST.
- NOTE 3: ACTUAL DEPTHS OF UNCLASSIFIED EXCAVATION TO BE DETERMINED IN THE FIELD BY THE PROJECT MANAGER.
- NOTE 4: PRIOR TO PLACEMENT OF THE PCCP MATERIAL, THE SURFACE SHALL BE PROOF ROLLED WITH A ROLLER HAVING A MINIMUM WEIGHT OF 30 TONS AND SHALL EXHIBIT NO DISPLACEMENT WHEN PROOF ROLLED.

4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT
OF TRANSPORTATION

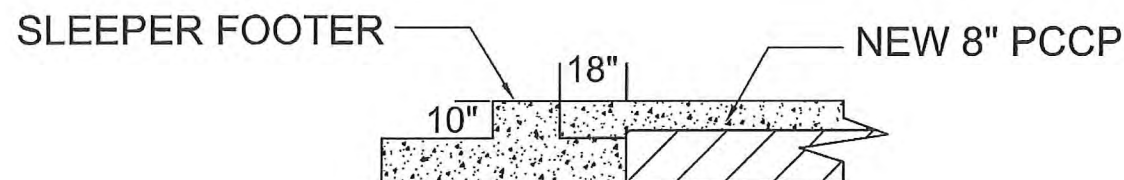
DISTRESSED AREA TYPICAL



THE METHOD USED FOR REMOVING EXISTING SURFACING MUST BE APPROVED BY THE PROJECT MANAGER. THE SURFACING CONNECTION LENGTH MAY BE MODIFIED IN THE FIELD BY THE PROJECT MANAGER.

SURFACING CONNECTION

AT PCCP/WMA INTERFACE AND OTHER LOCATIONS DESIGNATED BY THE PROJECT MANAGER.



NEW 8" PCCP SLAB SHALL BE THICKENED AT ABUTMENT No. 1 AND ABUTMENT No. 2. NEW 8" PCCP SLAB SHALL BEAR DIRECTLY ONTO SLEEPER FOOTER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM No. 451080 - CONCRETE PAVEMENT 8" AND NO SEPARATE PAYMENT SHALL BE MADE THEREFOR.

SURFACING CONNECTION

ABUTMENT No. 1
STA. 838+83.39

ABUTMENT No. 2
STA. 842+04.29



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT
OF TRANSPORTATION

SURFACING CONNECTION

SURFACING SCHEDULE				207000	303010	407000	408100	416000			451080
				SUBGRADE PREPARATION	BASE COURSE	ASPHALT MATERIAL FOR TACK COAT	PRIME COAT MATERIAL	MINOR PAVEMENT			CONCRETE PAVEMENT 8"
STA. TO STA.	LOC.	LENGTH	WIDTH	S.Y.	C.Y.	TONS	TONS	AVG. DEPTH	AVG. WIDTH	AREA	S.Y.
		FT	FT								
				IN.					S.Y.		
10+38.33 TO 16+33.66	NORTH OF BR #7345	595.33	12	793.77	132.30	0.26	1.49	8.00	24	793.77	
NORTH TO TRUCK STOP				113.33	18.89	0.04	0.21	8.00	24	113.33	
16+94.48 TO 21+94.48	NORTH OF BR #7345	500.00	12	666.67	111.11	0.22	1.25	8.00	24	666.67	
INTERCHANGE AREA					28.15						168.89
836+19.39 TO 838+83.39	NORTH OF BR #7345	264.00	32		156.44						938.67
842+04.29 TO 845+04.29	SOUTH OF BR #7345	300.00	32		177.78						1,066.67
SUB-TOTAL				1573.77	624.67	0.52	2.95			1,573.77	2,174.22
PROJECT TOTAL				1573.77	624.67	0.52	2.95			1,573.77	2,174.22
PROJECT USE				1574.00	625.00	1.00	3.00			1,574.00	2,175.00

MINOR PAVEMENT WILL BE WMA - SPIII COMPLETE.

ESTIMATED SURFACING FACTORS						
ITEM	ASPHALT BINDER SP-III PG 76-22 %BY WT OF TOTAL MIX	PG 70-28+ % BY WT. OF TOTAL MIX	HYDRATED LIME BY % TOTAL MIX	SECT. 407		UNIT WT.
				GAL/SY	GAL/TON	LBS/CY
PRIME COAT				0.45	240	
WMA SP-III	4.60%		1.50%			4000
ASPHALT MATERIAL FOR TACK COAT				0.08	240	
BASE COURSE						3950

***TO BE DETERMINED BY DISTRICT LAB.

METAL BARRIER SCHEDULE

STA. TO STA.	LOCATION	606001	606051	606062	REMARKS
		SINGLE FACE W-BEAM GUARDRAIL	END TREATMENT TL-3 END TERMINAL	TRANSITION METAL BARRIER TO RIGID BARRIER	
		L.F	EACH	EACH	
837+70.89 TO 838+33.39	RT.	62.50	1	1	THRIE BEAM TIES INTO BRIDGE RAIL
837+70.89 TO 838+33.39	LT.	62.50	1	1	
TOTAL		125.00	2	2	
842+54.29 TO 843+16.79	RT.	62.50	1	1	THRIE BEAM TIES INTO BRIDGE RAIL
842+54.29 TO 843+29.29	LT.	75.00	1	1	
TOTAL		137.50	2	2	
PROJECT TOTAL		262.50	4.00	4.00	
PROJECT USE		262.50	4.00	4.00	

*CONTRACTOR SHALL FIELD VERIFY ALL GUARDRAIL QUANTITIES AND LOCATIONS WITH PROJECT MANAGER PRIOR TO PLACEMENT OF METAL BARRIER PADS
 *ALL METAL BARRIER RUNS DO NOT INCLUDE END TREATMENTS
 *METAL BARRIER PADS HAVE A DEPTH LESS THAN 8" OF ASPHALT

ITEM NO. 601000, REMOVAL OF STRUCTURES AND OBSTRUCTIONS

STA. TO STA.	LOCATION	SQ. FT.	L.F.	DESCRIPTION
WB				
- TO -	VARIES	385.00	642.00	STEEL SIGN POSTS AND BASE POSTS
- TO -	VARIES			SIGNS
837+37.81 TO 838+76.94	NW SIDE		139.13	ALL METAL BARRIER, END TREATMENTS AND HARDWARE
837+33.80 TO 838+74.65	NE SIDE	140.85		ALL METAL BARRIER, END TREATMENTS AND HARDWARE
EB				
- TO -	VARIES	336.00	536.00	STEEL SIGN POSTS AND BASE POSTS
- TO -	VARIES			SIGNS
842+21.88 TO 843+61.39	SW SIDE		139.51	ALL METAL BARRIER, END TREATMENTS AND HARDWARE
842+12.18 TO 843+64.44	SE SIDE	152.26		ALL METAL BARRIER, END TREATMENTS AND HARDWARE
SUMMARY TOTAL				
	SIGNS		74.00	TOTAL SIGNS
	POSTS		1,178.00	LIN. FT EXISTING SIGN POSTS AND BASE POSTS
	METAL BARRIER		571.75	LIN. FT EXISTING METAL BARRIER
	END SECTIONS		4.00	EXISTING END SECTIONS

* SEE SHEETS 5-1 TO 5-90 FOR ADDITIONAL REMOVALS
 * ALL BRIDGE RAIL, METAL BARRIER AND SIGNS WILL BE HAULED AND STOCKPILED AT THE SAN JON PATROL, I-40 EXIT 356.

*EARTHWORK SUMMARY

STATION/LOCATION	LENGTH	WIDTH	203000	203211	REMARKS
			UNCLASSIFIED EXCAVATION	UNSTABLE SUBGRADE STABILIZATION	
		FT.	C.Y.	S.Y.	
NORTH					
10+38.33 TO 16+18.33	580.00	12.00	170.13		THESE ITEMS WILL BE UTILIZED FOR THE ROADWAY APPROACH AND DEPARTURE OF BRIDGE #7345.
16+93.48 TO 21+93.48	500.00	12.00	146.67		
INTERCHANGE AREA	38.00	40.00	37.16	16.89	
NORTH TO TRUCKSTOP	250.00	12.00	73.33		
836+19.39 TO 838+83.39	264.00	32.00	206.51	93.87	
SOUTH					
842+04.29 TO 845+04.29	300.00	32.00	234.67	106.67	
PROJECT TOTAL			868.46	217.42	
PROJECT USE			869.00	218.00	

*FOR CONTRACTOR INFORMATION ONLY. (FOR ESTIMATING PURPOSES)

ITEM NO. 601110, REMOVAL OF SURFACING

STA. TO STA.	LOCATION	LENGTH	WIDTH	AREA	DESCRIPTION
		LIN. FT.	LIN. FT.	SQ. YD.	
WB					
10+38.33 TO 16+33.66	ON RAMP	595.33	4	264.59	4' SHOULDER OF WMA
- TO -	NORTH TO TRUCK STOP	250.00	4	111.11	4' SHOULDER OF WMA
INTERCHANGE AREA					
16+93.48 TO 21+93.48	OFF RAMP	38.00	40	168.89	11" PCCP (AVG.)
836+19.39 TO 838+83.39	BRIDGE APPROACH	500.00	4	222.22	4' SHOULDER OF WMA
		264.00	32	938.67	11" PCCP (AVG.) AND 4' SHOULDERS OF WMA
EB					
842+04.29 TO 845+04.29	BRIDGE DEPARTURE	300	32	1,066.67	11" PCCP (AVG.) AND 4' SHOULDERS OF WMA
PROJECT TOTAL				2,772.15	
PROJECT USE				2,773.00	



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO DEPARTMENT OF TRANSPORTATION			
MISCELLANEOUS QUANTITIES			

ITEM NO. 533000, REPAIR OF CONCRETE STRUCTURES

STATION/LOCATION	LENGTH	WIDTH	QUANTITY	REMARKS
	FT.	FT.	CU. YD.	
WEST BOUND OFF RAMP 16+93.48 TO 21+93.48 INTERCHANGE AREA	25.00	27.00	16.50	THIS ITEM WILL BE UTILIZED FOR POSSIBLE BLOW OUT REPAIRS OF RAMPS/DETOUR.
	25.00	27.00	16.50	
WEST BOUND ON RAMP 10+38.33 TO 16+18.33	25.00	27.00	16.50	
PROJECT TOTAL			49.50	
PROJECT USE			50.00	

ITEM NO. 452000, SEALING CONCRETE PAVEMENT JOINTS

STA. TO STA.			LENGTH	AVG. WIDTH	LIN. FT.	COMMENTS
			FT.	FT.		
836+19.39	TO	838+83.39	264.00	32.00	264.00	NORTH OF BR #7345
INTERCHANGE AREA			38.00	40.00	38.00	NORTH OF BR #7345
842+04.29	TO	845+04.29	300.00	32.00	300.00	SOUTH OF BR #7345
PROJECT TOTAL					602.00	
PROJECT USE					602.00	



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO DEPARTMENT OF TRANSPORTATION			
MISCELLANEOUS QUANTITIES			

CONSTRUCTION ENGINEERING AND LUMP SUM ITEMS

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
547000	SAFETY AND ENVIRONMENTAL REQUIREMENTS	L.S.	L.S.
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	L.S.
618000	TRAFFIC CONTROL MANAGEMENT	L.S.	L.S.
618011	PUBLIC AWARENESS	L.S.	L.S.
621000	MOBILIZATION	L.S.	L.S.
622002	FIELD LABORATORY, TYPE II	EACH	1
622100	SUPPLEMENTAL FIELD LABORATORY	EACH	1
622110	SUPPLEMENTAL HOT-MIX ASPHALT FIELD LABORATORY	EACH	1
702850	LAW ENFORCEMENT IN CONSTRUCTION ZONE	ALOW	ALOW
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	L.S.	L.S.
802000	POST CONSTRUCTION PLANS	L.S.	L.S.



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT
OF TRANSPORTATION

CONSTRUCTION ENGINEERING
AND LUMP SUM ITEMS

SURVEY NOTES

CREW: DISTRICT 4 SURVEY CREW: JA, DV, JG, MR

PROJECT LOCATION: BRIDGE #7345, LOCATED AT I-40 / NM 392 INTERSECTION, QUAY COUNTY, NM.

EQUIPMENT USED: TRIMBLE R8 MODEL 4 GNSS SYSTEM, TRIMBLE S7 ROBOTIC TOTAL STATION.

DATES OF FIELD WORK: MARCH 07, 16, 20, 28, APRIL 05, 06, MAY 02, 03, 17, 2017.

UNITS: US SURVEY FEET (HORIZONTAL & VERTICAL).

HORIZONTAL DATUM: NAD83(2011)(EPOCH:2010.0000) - OBTAINED FROM AN OPUS SOLUTION AT POINT #1. MONUMENTED BY A PUNCH MARK ON A #5 REBAR SET ON MARCH 07, 2017. LOCAL COORDINATE SYSTEM (NORTHINGS & EASTINGS): DERIVED FROM A TRANSVERSE MERCATOR PROJECTION CENTERED AT POINT #1, LAT: 35°10'18.10733"N, LON: 103°06'10.25585"W, N: 10000.00, E: 10000.00, GROUND SCALE FACTOR: 1.0001813939, AVERAGE ELLIPSOID HEIGHT (WGS84): 3800.00'.

VERTICAL DATUM: NAVD88 – OBTAINED FROM AN OPUS SOLUTION AT POINT #1, HAVING AN AN ORTHOMETRIC HEIGHT OF 3857.57' COMPUTED BY A VERTICAL ADJUSTMENT USING A GEIOD MODEL (GEOID12B) FROM AN ELLIPSOID HEIGHT OF 3779.46' (WGS84) AT POINT #1.

LOCAL COORDINATES				
POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	10000.00	10000.00	3857.57	PUNCH MARK ON #5 REBAR (PROJECT BENCHMARK)
2	10477.89	10444.74	3855.82	PUNCH MARK ON #5 REBAR
3	10370.07	10096.98	3859.58	PUNCH MARK ON #5 REBAR
4	9785.94	10253.32	3862.09	2 3/4" BRASS CAP IN CONCRETE CURB "NEW MEXICO STATE HIGHWAY DEPARTMENT 4100260-19 GPS 2011"
5	9683.99	6837.73	3884.62	3" BRASS CAP IN CONCRETE "STATE OF NEW MEXICO HIGHWAY COMMISSION 3510325017 1972" (NGS PID: FM0953)
6	13630.57	18037.77	3796.80	3" BRASS CAP IN CONCRETE "STATE OF NEW MEXICO HIGHWAY COMMISSION 3510325019 1972" (NGS PID: FM0951)

GEODETIC COORDINATES			
POINT#	LATITUDE	LONGITUDE	ELLIPSOID HT.
1	35°10'18.10733"N	103°06'10.25585"W	3779.46'
2	35°10'22.83302"N	103°06'04.89976"W	3777.72'
3	35°10'21.76681"N	103°06'09.08790"W	3781.48'
X	35°10'21.76681"N	103°06'09.08790"W	3781.48'
XX	35°10'21.76681"N	103°06'09.08790"W	3781.48'

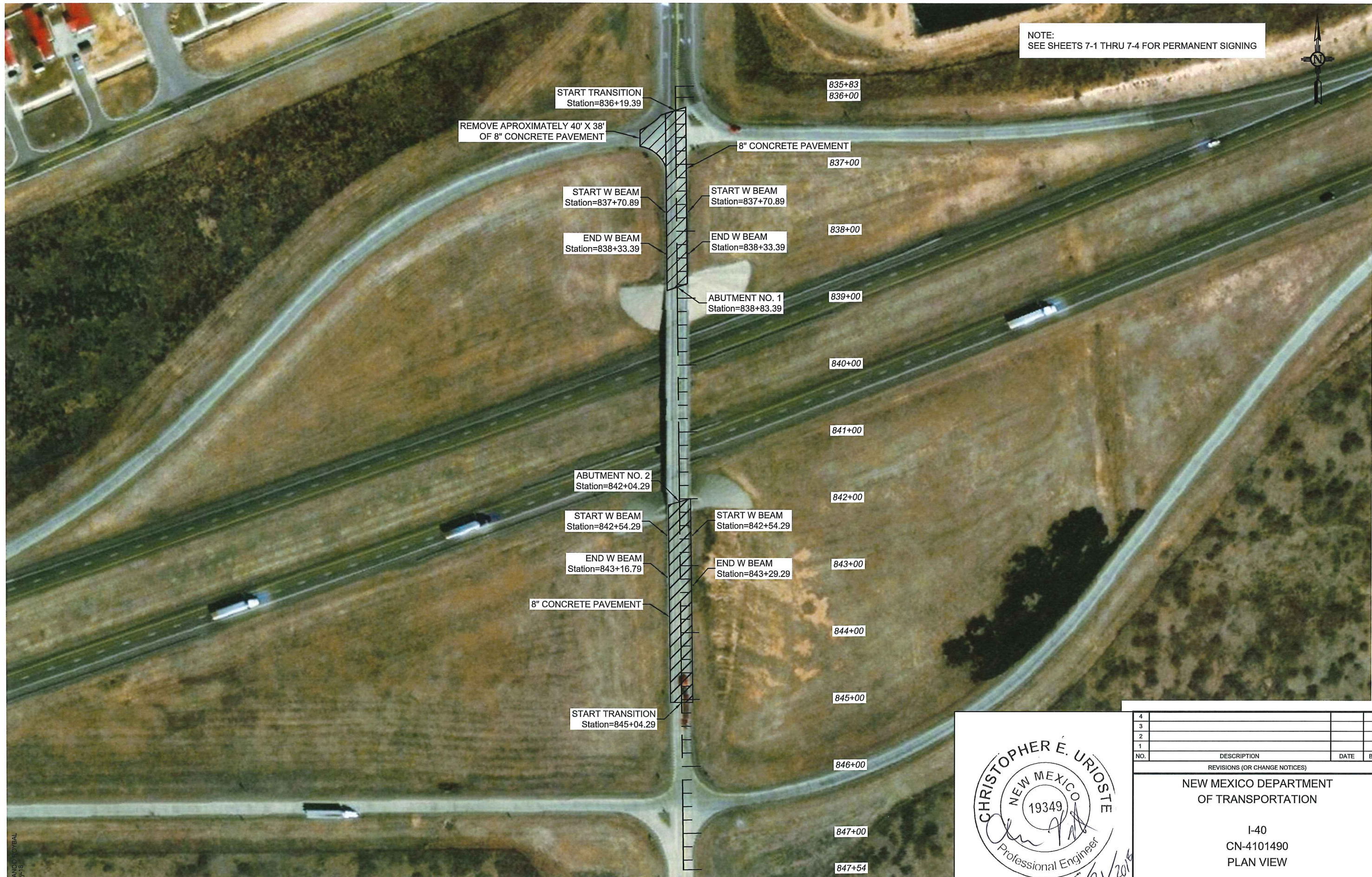
THE CONTRACTOR SHALL NOT DISTURB, COVER, OR REMOVE, ANY SURVEY MONUMENTS INCLUDING BUT NOT LIMITED TO MONUMENTS MARKING PROPERTY CORNERS, TRIANGULATION STATIONS, BENCHMARKS, LAND GRANT CORNERS, SECTION CORNERS, QUARTER/SIXTEENTH/SIXTY-FOURTH/TWO-FIFTY-SIXTH CORNERS, NMDOT (FORMERLY N.M.S.H.T.D.) MONUMENTS OR ANY OTHER PERMANENT REFERENCE MARKERS LOCATED WITHIN OR OUTSIDE THE CONSTRUCTION LIMITS (INCLUDING THE LIMITS OF TEMPORARY CONSTRUCTION PERMITS) OR ON THE RIGHT-OF-WAY LINE OF THIS PROJECT; UNLESS WRITTEN DOCUMENTATION REGARDING REFERENCING OF SAID MONUMENT/MARKER HAS BEEN PROVIDED BY THE CONTRACTOR TO THE TO THE PROJECT ENGINEER FOR APPROVAL. SUCH REFERENCING (OR RESETTNG) OF SAID SURVEY MONUMENTS SHALL BE DONE IN ACCORDANCE WITH NEW MEXICO STATUTE §§61.23.1 THROUGH 61.23.32 NMSA 1978, MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO AS OUTLINED IN §12.8.2 NMAC, AND IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SECTION 801.2.1; AND THE BENCH MARK [SIC] RESET PROCEDURES, AS PREPARED BY THE NATION GEODETIC SURVEY. ALL NOTES BY THE CONTRACTOR REGARDING REFERENCING (OR RESETTNG) OF SAID MONUMENTS SHALL BE SUBMITTED TO THE PROJECT ENGINEER. SUBMITTED NOTES WILL BE FORWARDED TO THE SURVEYING AND LANDS ENGINEERING SECTION, MONUMENTATION UNIT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL BE ASSESSED ONE-THOUSAND DOLLARS (\$1,000.00) PENALTY FOR EACH DISTURBED COVERED OR REMOVED MONUMENT, WHICH HAS NOT BEEN PROPERLY REFERENCED.



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO DEPARTMENT OF TRANSPORTATION			
SURVEY CONTROL SHEET			
PCN: 4101490			
BRIDGE #7345			
QUAY COUNTY			

FELIPE SAIZ

NOTE:
SEE SHEETS 7-1 THRU 7-4 FOR PERMANENT SIGNING



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT
OF TRANSPORTATION

I-40
CN-4101490
PLAN VIEW

FERNANDO TOYBAL
11-MAY-18

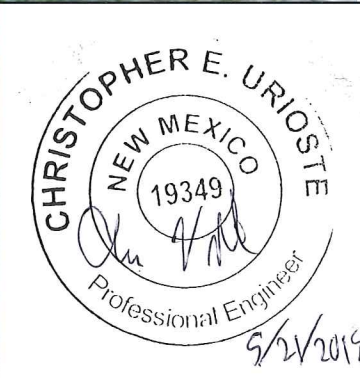


START TAPER FOR
ACCEL LANE
Station=10+38.33

SAW CUT

MATCHLINE 12+31

FERNANDO ROYBAL
11-May-18



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

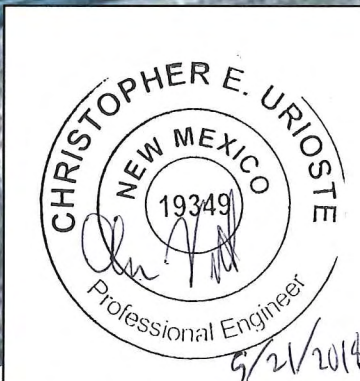
NEW MEXICO DEPARTMENT
OF TRANSPORTATION

I-40
CN-4101490
WB DETOUR ACCEL & DECEL LANES



MATCHLINE 12+31

MATCHLINE 26+13



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION

I-40
CN-4101490
WB DETOUR ACCEL & DECEL LANES

FERNANDO ROYBAL
11 May 18

INDEX OF SHEETS

5-1 to 5-2	GENERAL NOTES
5-3	ESTIMATED QUANTITIES
5-4	STRUCTURE LOCATION PLAN
5-5	BRIDGE PLAN
5-6	BRIDGE PROFILE
5-7	EXISTING TRANSVERSE SECTIONS
5-8	PROPOSED TRANSVERSE SECTIONS
5-9	FRAMING PLAN
5-10	STEEL DIAPHRAGM DETAILS
5-11	REMOVALS PLAN
5-12	ABUTMENT REMOVALS
5-13 to 5-14	ABUTMENT PLAN AND ELEVATIONS
5-15 to 5-18	WINGWALL MODIFICATIONS
5-19 to 5-22	PIER DETAILS
5-23 to 5-26	BEARING DETAILS
5-27	APPROACH SLAB DETAILS
5-28	APPROACH SLAB SECTIONS
5-29	SLEEPER FOOTER DETAILS
5-30	PRECAST DECK PANEL FRAMING PLAN
5-31	PRECAST DECK PANEL TOLERANCES
5-32	LIFTING DEVICE AND VERTICAL ADJUSTMENT DETAILS
5-33	TOP OF DECK ELEVATIONS SPANS 1, 3 & 5
5-34	TOP OF DECK ELEVATIONS SPANS 2 & 4
5-35 to 5-38	DECK PANEL DETAILS - SPAN 1
5-39 to 5-45	DECK PANEL DETAILS - SPAN 2
5-46 to 5-49	DECK PANEL DETAILS - SPAN 3
5-50 to 5-56	DECK PANEL DETAILS - SPAN 4
5-57 to 5-59	DECK PANEL DETAILS - SPAN 5
5-60 to 5-63	DECK PANEL DETAILS - LINK SLAB
5-64 to 5-67	DECK PANEL DETAILS - APPROACH SLAB 1
5-68 to 5-71	DECK PANEL DETAILS - APPROACH SLAB 2
5-72 to 5-81	REINFORCING BAR SCHEDULES (DECK PANELS)
5-82 to 5-83	NM TYPE A42 METAL BRIDGE RAILING
5-84	METAL RAILING NM TYPE A42 DETAILS OF POSTS ON BRIDGE AND APPROACH SLABS
5-85	REINFORCING BAR SCHEDULE (CAST-IN-PLACE CONCRETE)
5-86	UHPC BLOCKOUT DETAILS
5-87	UHPC TRANSVERSE JOINT DETAILS
5-88	ADJUSTMENT BOLT POINT LOCATIONS

DESIGN DATA

DESIGN IS IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS, 17TH EDITION AND CURRENT INTERIM SPECIFICATIONS FOR EXISTING ELEMENTS AND AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014 WITH THE 2015 AND 2016 INTERIM REVISIONS FOR NEW PRECAST ELEMENTS.

DESIGN STRESSES: STRUCTURAL STEEL-AASHTO M270, GRADE 50
Fy = 50 ksi; UNLESS NOTED OTHERWISE

Fy = 36 ksi; ASTM A36 SOLE PLATES, AND MINOR BRIDGE COMPONENTS

Fy = 55 ksi; ASTM F1554 FOR ANCHOR BOLTS

REINFORCED CONCRETE: f'c = 6000 psi @ 28 DAYS (PRECAST PANELS)
f'c = 21700 psi @ 28 DAYS (UHPC JOINTS)
f'c = 4000 psi @ 24 HOURS (SPECIAL CONCRETE)
fy = 60 ksi GRADE 60

EPOXY URETHANE POLYMER CONCRETE BRIDGE DECK OVERLAY:

6 psf

FUTURE OVERLAY:

0 psf (NOT PERMITTED)

LIVE LOAD:

HL93 (DECK REPLACEMENT)
HS20-44 (EXISTING PRESTRESSED GIRDERS AND SUBSTRUCTURE)

GENERAL NOTES

- ALL DIMENSIONS, ELEVATIONS AND DETAILS SHOWN WERE TAKEN FROM THE NMP I-040-6(12)369 AS-BUILT PLANS. AS-BUILT PLANS FOR THE EXISTING BRIDGES ARE AVAILABLE FROM NMDOT RECORD DOCUMENT CONTROL AT (505) 827-5245.
- CARE SHALL BE TAKEN DURING ALL REPAIR AND REMOVAL OPERATIONS TO PREVENT DAMAGE TO STRUCTURAL COMPONENTS AND REINFORCING STEEL BEING RETAINED. ANY DAMAGE TO EXISTING STRUCTURAL COMPONENTS, RETAINED REINFORCING STEEL, FACILITIES OR ROADWAY THAT IS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE NMDOT PROJECT MANAGER, AT NO COST TO THE NMDOT.
- EXISTING REINFORCING BARS THAT ARE TO REMAIN SHALL BE CLEANED AND UNDEFORMED WITH NO NICKS OR CUTS. BARS THAT ARE BENT DURING REMOVAL OF CONCRETE SHALL BE STRAIGHTENED AND RESTORED TO ORIGINAL SHAPE BEFORE BEING INCORPORATED INTO THE NEW WORK. EXISTING REINFORCING BARS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL UNSOUND CONCRETE ON CONCRETE SURFACES TO REMAIN SHALL BE REPAIRED PER SECTION 533 CONCRETE STRUCTURE REPAIR OF THE STANDARD SPECIFICATIONS. UNSOUND AREAS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE PROJECT MANAGER. ANY REPAIR THAT REQUIRES CONCRETE REMOVAL DEEPER THAN 4 INCHES WILL BE PAID FOR AT AN ADDITIONAL 25% OF THE BID PRICE FOR "ITEM No. 533000 - REPAIR OF CONCRETE STRUCTURES" FOR EACH ADDITIONAL INCH. THE QUANTITIES SHOWN ARE AN ESTIMATE ONLY AND ARE SUBJECT TO ADJUSTMENT IN THE FIELD.
- ALL STEEL REINFORCEMENT DETERMINED TO BE INADEQUATE BY THE NMDOT PROJECT MANAGER DUE TO CORROSION OR INADEQUATE EMBEDMENT SHALL BE REPLACED AND WILL BE PAID FOR UNDER "ITEM No. 533003 - REPLACEMENT REINFORCING BARS GRADE 60".
- THE REINFORCING BARS SHOWN IN THE CAST-IN-PLACE CONCRETE REBAR SCHEDULES SHALL BE PAID FOR UNDER "ITEM No. 540160 - EPOXY COATED REINFORCING BARS GRADE 60". REINFORCING BARS SHOWN IN THE PRECAST DECK PANELS SCHEDULES SHALL BE INCLUDED IN "ITEM No. 518299 - PRECAST DECK PANELS 8 IN. DEPTH" AND "ITEM No. 518303 - PRECAST DECK PANELS 10 IN. DEPTH" RESPECTIVELY.
- METAL BRIDGE RAILING SHALL BE GALVANIZED TYPE A42 AS MODIFIED ON SHEET 5-87. MODIFICATIONS INCLUDE FIELD WELDING OF THE POSTS TO THE BASE PLATES. BASE PLATES ARE OVERSIZED. COSTS INCURRED IN THE FABRICATION, WELDING, AND INSTALLATION OF THE METAL BRIDGE RAILING SHALL BE INCLUDED IN "ITEM No. 543002 - METAL RAILING, TYPE A42".
- BRIDGE NUMBER PLATES THE CONTRACTOR SHALL FURNISH AND PLACE TWO BRIDGE NUMBER PLATES CONFORMING TO THE DETAILS SHOWN IN THESE PLANS. THE COST OF THE BRIDGE NUMBER PLATES SHALL BE INCLUDED IN "ITEM No. 543002 - METAL RAILING, TYPE A42".



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-1

CAPACITY RATING

LFR RATINGS	
INVENTORY RATING	HS 21.1
OPERATING RATING	HS 35.2

LRFR RATING FACTORS	
INVENTORY-LEVEL	0.89
OPERATING-LEVEL	1.16

THESE RATINGS WERE COMPUTED BY THE LOAD FACTOR RATING (LFR) AND THE LOAD AND RESISTANCE FACTOR RATING (LRFR) METHODS USING THE AASHTOWARE BRIDGE RATING PROGRAM VERSION 6.8.2. RATINGS WERE PERFORMED BY LOUIS BERGER.



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

GENERAL NOTES

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 6/8/2018

APPROVED FOR CONSTRUCTION: _____

DATE: _____

SANCHEZ, CALVIN 8-Jun-18 Drawing File: G:\NMDOT\2463-14-01 BRIDGE ON-CALL\TASK 11 - BR 7345 REHAB\00_PLANS\BR 7345_GEN NOTES (REV 2018-05-08).DWG 4:12 PM

NEW MEXICO PROJECT NO. 4101490

STA. 840+48.62

DRAWING SCALE:

SHEET NO. 5-1

GENERAL NOTES CONT'D



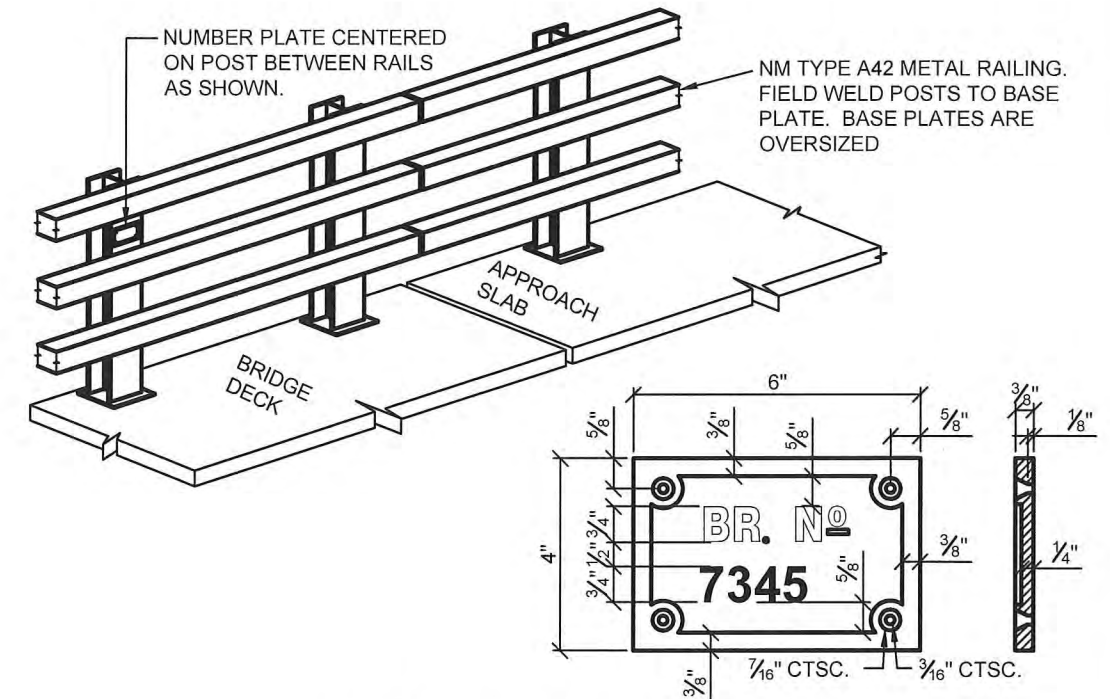
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-2

9. SUBMIT A DEMOLITION, JACKING AND SHORING, AND ERECTION PLAN FOR REVIEW AND APPROVAL TO THE PROJECT MANAGER A MINIMUM OF 60 CALENDAR DAYS PRIOR TO COMMENCEMENT OF THE WORK. THE FOLLOWING SHALL APPLY:

- 9.1. DEMOLITION PLAN: THE EXISTING RAILING, STRIP SEALS, BRIDGE DECK, APPROACH SLABS, BACK WALLS AND THE UPPER PORTIONS OF THE WINGWALLS WILL BE REMOVED BY THE CONTRACTOR. THE PLAN SHALL BE PREPARED AND STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN NEW MEXICO WITH A MINIMUM OF 5 YEARS OF EXPERIENCE IN THE PREPARATION OF DEMOLITION PLANS AND SHALL BE APPROVED BY THE NMDOT BRIDGE BUREAU PRIOR TO THE START OF THE WORK. THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN TO THE NMDOT PROJECT MANAGER FOR APPROVAL TO PERFORM THE REMOVALS IN A SAFE AND CONTROLLED MANNER. THE DEMOLITION PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: THE REMOVAL SEQUENCE; EQUIPMENT TO BE USED; DETAILS, LOCATIONS AND TYPES OF PROTECTION COVERS TO BE USED; MEASURES TO ASSURE THAT PEOPLE, PROPERTY, UTILITIES, AND IMPROVEMENTS WILL NOT BE ENDANGERED; DETAILS AND MEASURES FOR PREVENTING MATERIALS, EQUIPMENT, AND DEBRIS FROM FALLING INTO PUBLIC TRAFFIC AND DEPARTMENT PROPERTY. THE DEMOLITION PLAN AND ALL MATERIAL AND LABOR INVOLVED IN THE SAFE REMOVAL OF THE SPECIFIED PORTIONS OF THE EXISTING BRIDGES SHALL BE INCLUDED IN THE PAYMENT OF ITEM 601000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- 9.2. JACKING AND SHORING PLAN: THE PLAN SHALL BE PREPARED AND STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN NEW MEXICO WITH A MINIMUM OF 5 YEARS EXPERIENCE IN THE PREPARATION OF JACKING AND SHORING PLANS AND SHALL BE APPROVED BY THE NMDOT BRIDGE BUREAU PRIOR TO THE START OF WORK. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING BRIDGE DURING JACKING OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE NMDOT PROJECT MANAGER AT NO COST TO THE STATE. ALL EQUIPMENT, MATERIAL AND LABOR COSTS ASSOCIATED WITH JACKING OPERATIONS AND BEARING REPLACEMENT, LIFTING AND RESETTING GIRDERS IN SPAN 3, SHALL BE INCLUDED IN "ITEM NO. 529000 - PIER AND ABUTMENT BEARING MODIFICATIONS." TO REPLACE ONE OR MORE BEARING DEVICES AT ANY ONE ABUTMENT OR PIER, ALL GIRDERS AT THAT ABUTMENT OR PIER SHALL BE JACKED SIMULTANEOUSLY IF DIAPHRAGMS REMAIN IN PLACE. GIRDERS SHALL BE BRACED TO PROVIDE STABILITY AND TO PREVENT TIPPING AND OVERTURNING.
- 9.3. PRECAST PANEL ERECTION PLAN: THE PLAN SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN NEW MEXICO WITH A MINIMUM OF 5 YEARS EXPERIENCE IN THE PREPARATION OF ERECTION PLANS AND SHALL BE APPROVED BY THE NMDOT BRIDGE BUREAU PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL SUBMIT AN ERECTION PLAN THAT PROVIDES COMPLETE DETAILS OF THE PROCESS INCLUDING, BUT NOT LIMITED TO, ERECTION OF THE PRECAST DECK PANELS, STAGING, TEMPORARY SUPPORTS, SCHEDULING AND OPERATION SEQUENCING, SURVEYING AND PANEL LAYOUT, CRANE PLACEMENT AND CONFIGURATION OF EACH PHASE, AND ASSUMED LOADS AND CALCULATED STRESSES DURING VARYING STAGES OF LIFTING. THE CAPACITY OF THE CRANE AND ALL LIFTING AND CONNECTING DEVICES SHALL BE ADEQUATE FOR 150 PERCENT OF THE TOTAL PICK LOAD INCLUDING SPREADERS AND OTHER MATERIALS. THIS FACTOR OF SAFETY SHALL BE IN ADDITION TO ALL MANUFACTURER'S PUBLISHED FACTORS OF SAFETY.
- 9.4. A MANDATORY PRE-DEMOLITION CONFERENCE WILL BE HELD AT 14 DAYS PRIOR TO THE START OF THE PRECAST DECK PANELS INSTALLATION TO DISCUSS THE DEMOLITION AND ERECTION PLANS AND PROCEDURES, WORK SCHEDULES, CONTINGENCY PLANS, SAFETY REQUIREMENTS AND TRAFFIC CONTROL. THE CONTRACTOR'S PROFESSIONAL ENGINEER, LICENSED SURVEYOR AND ERECTION SUBCONTRACTOR WILL BE REQUIRED TO ATTEND THIS MEETING, AS WILL THE PROJECT MANAGER, AND THE DESIGN CONSULTANT. BASED UPON DISCUSSIONS AT THIS MEETING AND REVIEW OF THE CONTRACTOR'S ERECTION PLAN, NMDOT MAY ORDER THE CONTRACTOR TO MODIFY AND RESUBMIT THE ERECTION PLAN TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL.
- 9.5. THE CONTRACTOR'S SURVEYOR FOR CONSTRUCTION STAKING AND PANEL LAYOUT SHALL BE ON SITE TO VERIFY PANEL LAYOUT AND ELEVATIONS DURING THE PLACEMENT OF ALL PANELS.
- 9.6. THE COST OF PREPARING AND STAMPING THE DEMOLITION, JACKING AND SHORING, AND ERECTION PLANS, COMPUTATIONS, SURVEYING, LAYOUT, AND REPORTS, RESPONDING TO NMDOT'S COMMENTS AND MAKING THE NECESSARY REVISIONS, AND ATTENDANCE AT MEETINGS SHALL BE CONSIDERED INCLUDED IN THE COST OF "ITEM No. 518299 - PRECAST DECK PANELS", AND NO SEPARATE PAYMENT WILL BE MADE THEREFORE.
- 10. GRINDING OF BRIDGE DECK SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 455 - DIAMOND GRINDING AND DIAMOND GROOVING OF PORTLAND CEMENT CONCRETE PAVEMENT AND SHALL BE PAID UNDER BIT "ITEM No. 455000 - DIAMOND GRINDING OF PCCP". THE GRINDER FOR THIS PROJECT SHALL PRODUCE A GRINDING PATH OF NO LESS THAN THREE (3) FEET IN WIDTH AND NO MORE THAN 1/4" IN DEPTH. THE CONTRACTOR WILL DEMONSTRATE TO THE NMDOT PROJECT MANAGER THAT THE DIAMOND GRINDER IS CAPABLE OF THESE REQUIREMENTS AND DEMONSTRATE THAT THE GRINDER IS IN GOOD WORKING CONDITION TO LAST THE ENTIRE DURATION OF THE GRINDING WORK REQUIRED. APPROVAL FOR USE OF THE PROPOSED GRINDER MUST BE OBTAINED FROM THE NMDOT PROJECT MANAGER PRIOR TO BEGINNING THE GRINDING WORK. ALL LOOSE CONCRETE MATERIAL AND SLURRY GENERATED FROM THE GRINDING OPERATION SHALL BE CLEANED OFF THE DECK AND HAULED TO AN ENVIRONMENTALLY ACCEPTABLE DISPOSAL SITE. NO CONCRETE DEBRIS OR SLURRY WILL BE STOCKPILED WITHIN THE PROJECT LIMITS. THIS WORK WILL BE INCLUDED IN ITEM 455000.
- 11. THE CONTRACTOR WILL HAVE THE OPTION OF APPLYING THE PENETRATING WATER REPELLENT TREATMENT AND EPOXY URETHANE POLYMER CONCRETE BRIDGE DECK OVERLAY BEFORE OR AFTER THE BRIDGE IS REOPENED TO TRAFFIC. IF APPLIED AFTER THE BRIDGE IS OPEN, ONE LANE OF TRAFFIC ON THE BRIDGE SHALL REMAIN OPEN AT ALL TIMES FOR TRAFFIC IN BOTH DIRECTIONS.
- 12. ALL PRECAST PANELS SHALL BE INSPECTED PRIOR TO CASTING AND FOR ACCEPTANCE BY THE NMDOT DISTRICT 3 CONSTRUCTION OFFICE. NOTIFICATION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 518.3.5.2. INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 518.3.5.3.



BRIDGE NUMBER PLATE DETAILS
(BRIDGE NO. 7345)

NOTES:

- 1. ONE PLATE IS TO BE PLACED ON THE ROADWAY FACE OF THE STEEL BARRIER RAILING AT EACH END OF THE BRIDGE AND LOCATED ON THE RIGHT-HAND SIDE AS TRAFFIC CROSSES THE BRIDGE.
- 2. TWO NUMBER PLATES ARE REQUIRED. USE GALVANIZED FLAT HEAD BOLTS AND NUTS FOR ATTACHMENT. NEW PLATES SHALL BE GALVANIZED CAST IRON WITH RAISED BLOCK LETTERS OF NEAT SQUARE CUT DESIGN. GRIND FACE OF LETTERS AND BORDERS SMOOTH.



BRIDGE			
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION
BRIDGE No. 7345

GENERAL NOTES CONT'D

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-3

SCOPE OF WORK

- REMOVE EXISTING CONCRETE DECK, DIAPHRAGMS, RAILING, APPROACH SLABS AND PCCP SLABS ON APPROACHES.
- RECONSTRUCT BRIDGE APPROACHES, APPROACH SLABS, WINGWALLS AND ABUTMENTS.
- REMOVE AND REPLACE BEARING ASSEMBLIES; ADJUST BEAM SPACING IN SPAN 3.
- INSTALL STEEL DIAPHRAGMS.
- CONSTRUCT AND ERECT FULL DEPTH PRECAST DECK PANELS AND UHPC JOINTS.
- INSTALL METAL RAILING, TYPE A42.
- REPAIR THE UNSOUND DELAMINATED AND SPALLING CONCRETE ON THE GIRDERS AND SUBSTRUCTURE.
- APPLY EPOXY INJECTION CRACK SEALING IN BEAMS AND SUBSTRUCTURE.
- APPLY PENETRATING WATER REPELLENT TREATMENT.
- DIAMOND GRIND BRIDGE DECK UP TO 1/4" TO PROVIDE PLANAR SURFACE.
- APPLY EPOXY URETHANE POLYMER CONCRETE OVERLAY TO THE BRIDGE DECK.

LIST OF REMOVALS

- EXISTING APPROACH SLABS
- EXISTING PCCP SLABS ON APPROACHES
- EXISTING BRIDGE DECK
- EXISTING DIAPHRAGMS
- TOP PORTION OF EXISTING WINGWALLS AND BACKWALL
- EXISTING TYPE A METAL BRIDGE RAILING; MISCELLANEOUS STEEL
- UN SOUND CONCRETE IN SUBSTRUCTURE
- AREAS OF SLOPE PAVING TO BE REPAIRED
- ANY OTHER REMOVALS NECESSARY FOR THE COMPLETION OF THE PROJECT

ESTIMATED QUANTITIES

ITEM No.	DESCRIPTION	UNIT	SUPER STRUCTURE	SUB STRUCTURE	APPROACH SLAB	QUANTITY
210002	MAJOR STRUCTURE EXCAVATION	CU.YD.		500		500
210003	MAJOR STRUCTURE BACKFILL	CU.YD.		440		440
455000	DIAMOND GRINDING OF PCCP	SQ.YD.	1257		153	1410
511200	STRUCTURAL CONCRETE, CLASS A-4"	SQ.YD.		50		50
512006	SPECIAL CONCRETE	CU.YD.		12	18	30
512008	ULTRA HIGH PERFORMANCE CONCRETE	CU.YD.	36		4	40
515000	REINFORCED CONCRETE FOR MINOR STRUCTURES	CU.YD.		25		25
518000	FLOWABLE FILL	CU.YD.		20		20
518299	PRECAST DECK PANELS 8 IN. DEPTH	SQ. FT.	10653			10653
518303	PRECAST DECK PANELS 10 IN. DEPTH	SQ. FT.			1288	1288
529000	PIER AND ABUTMENT BEARING MODIFICATIONS	L.S.		L.S.		L.S.
532000	PENETRATING WATER REPELLENT TREATMENT	SQ. YD.		520		520
533000	REPAIR OF CONCRETE STRUCTURES	SQ. YD.		10		10
533003	REPLACEMENT REINFORCING BARS	LBS.		100		100
534000	EPOXY INJECTION, TYPE I	GALLON	6			6
536001	EPOXY URETHANE POLYMER CONCRETE BRIDGE DECK OVERLAY	SQ. YD.	1257		153	1410
540160	EPOXY COATED REINFORCING BARS GRADE 60	LBS.		1000	1300	2300
541000	STRUCTURAL STEEL FOR CONCRETE BRIDGES	LBS.	20570	10200		30770
543002	METAL RAILING, TYPE A42	LIN.FT.	658		78	736
565000	PREFORMED SILICONE-COATED FOAM JOINT SYSTEM	LIN.FT.			75	75
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	L.S.	L.S.	L.S.	L.S.
602000	RIPRAP CLASS A	CU.YD.		10		10
602060	RIPRAP CLASS G	SQ.YD.		80		80

ITEM No. 529000 PIER AND ABUTMENT BEARING MODIFICATIONS		
DESCRIPTION OF ITEM	UNIT	TOTAL
ELASTOMERIC BEARING PAD MATERIAL AND FABRICATION	EA.	44
RECOATING SOLE/TAPER PLATES AND RISER	SQ. FT.	140
JACKING AND SHORING - ENGINEERING, PLAN SUBMITTAL, LABOR, EQUIPMENT AND MATERIALS	L.S.	L.S.
LIFTING/SETTING OF GIRDERS IN SPAN 3	L.S.	L.S.

ITEM 518299 (SQ. FT.)	
ITEM DESCRIPTION	QUANTITY
DECK PANEL S1-1	381
DECK PANEL S1-2	381
DECK PANEL S1-3	381
DECK PANEL S1-4	381
LINK SLAB LS1	290
DECK PANEL S2-1	388
DECK PANEL S2-2	388
DECK PANEL S2-3	388
DECK PANEL S2-4	388
DECK PANEL S2-5	388
DECK PANEL S2-6	388
DECK PANEL S2-7	388
LINK SLAB LS2	289
DECK PANEL S3-1	331
DECK PANEL S3-2	331
DECK PANEL S3-3	331
DECK PANEL S3-4	331
LINK SLAB LS3	290
DECK PANEL S4-1	388
DECK PANEL S4-2	388
DECK PANEL S4-3	388
DECK PANEL S4-4	388
DECK PANEL S4-5	388
DECK PANEL S4-6	388
DECK PANEL S4-7	388
LINK SLAB LS4	295
DECK PANEL S5-1	403
DECK PANEL S5-2	403
DECK PANEL S5-3	403
TOTAL	10653

ITEM 518303 (SQ. FT.)	
ITEM DESCRIPTION	QUANTITY
APPROACH SLAB 1-1	161
APPROACH SLAB 1-2	161
APPROACH SLAB 1-3	161
APPROACH SLAB 1-4	161
APPROACH SLAB 2-1	161
APPROACH SLAB 2-2	161
APPROACH SLAB 2-3	161
APPROACH SLAB 2-4	161
TOTAL	1288

ITEM No. 541000 (LBS)	
DESCRIPTION OF ITEM	TOTAL
BENT PLATE DIAPHRAGMS	14472
DIAPHRAGM CLIP ANGLES	2216
DIAPHRAGM BACK PLATES	990
STUDS AND WASHER PLATES	2120
SOLE/TAPER PLATES AND RISER	10197
CORE DRILLING	INCL.
NON DESTRUCTIVE TESTING	INCL.
DIAPHRAGM BOLTS	769
TOTAL WEIGHT	30770



BRIDGE			
REVISIONS			
No.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION
BRIDGE No. 7345

ESTIMATED QUANTITIES

STA. 840+48.62 SHEET NO. 5-3

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 6/8/2018

APPROVED FOR CONSTRUCTION: _____

DATE: _____

SANCHEZ, CALVIN 8-Jun-18 Drawing File: G:\NMDOT\2463 - 14-01 BRIDGE ON-CALL\TASK 11 - BR 7345 REHAB\09_PLANS\BR 7345_EST QUANTS (REV 2018-05-09).DWG 4:12 PM

NEW MEXICO PROJECT NO. 4101490

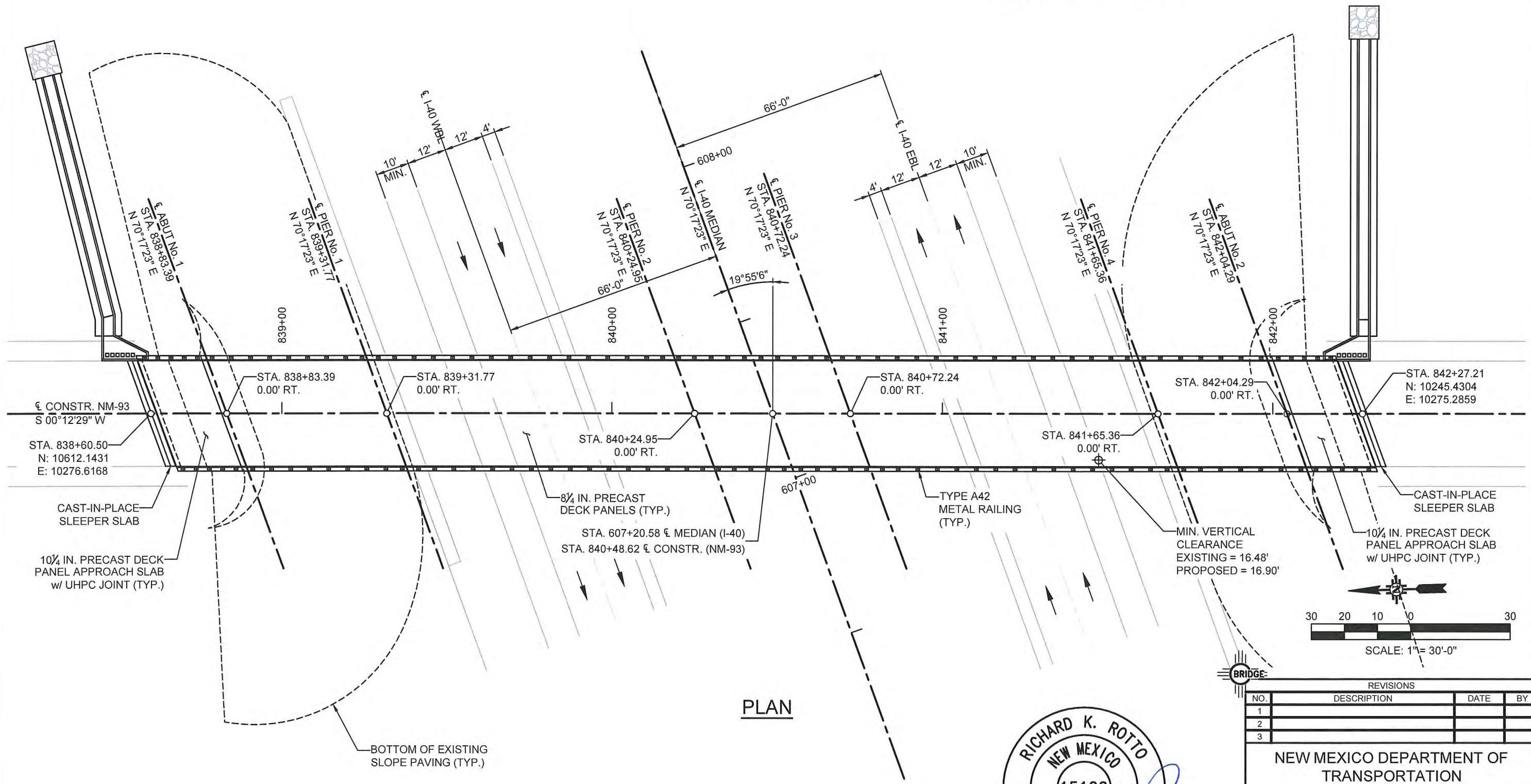
DRAWING SCALE:



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

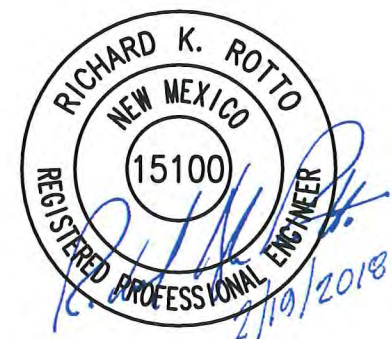
SHEET No.
5-5



PLAN

NOTES:

- EXISTING SLOPE PAVING LIMITS ARE NOT TO SCALE AND ARE APPROXIMATE.



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

BRIDGE PLAN

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

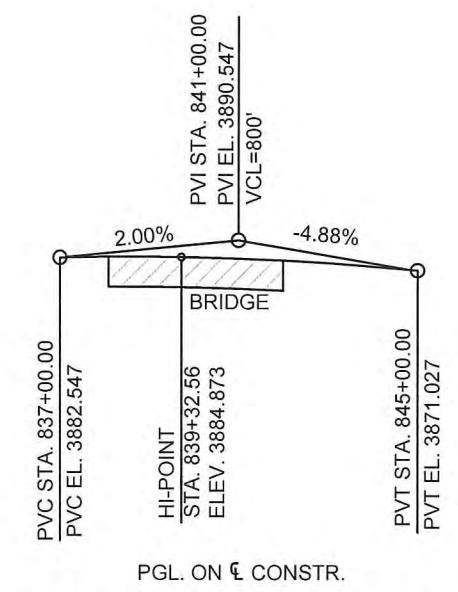
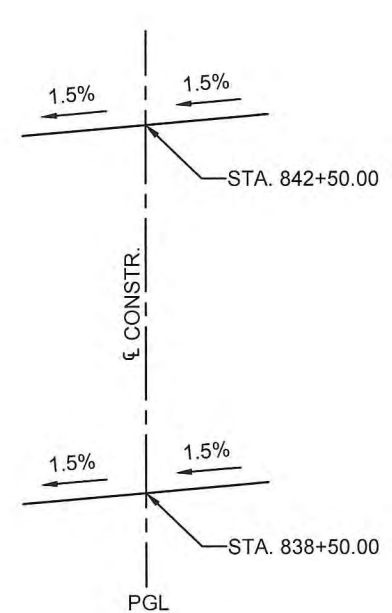
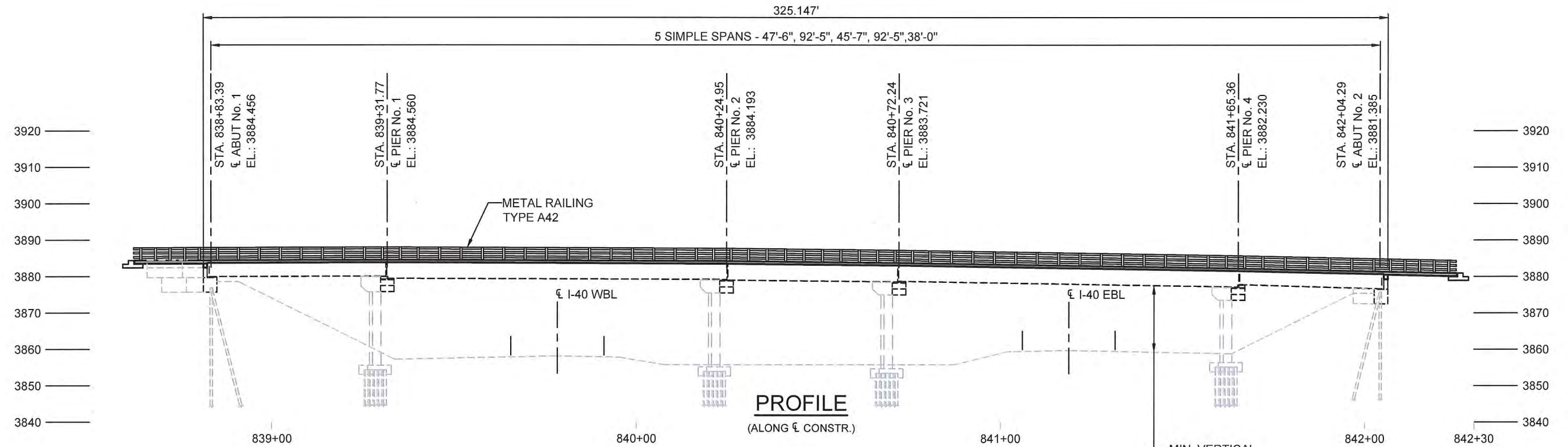
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

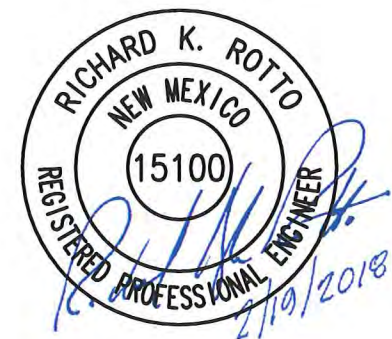
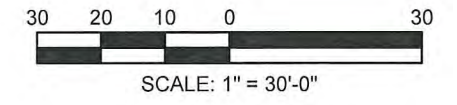
CONTROL No.
4101490

SHEET No.
5-6



NOTES:

- EXISTING VERTICAL CLEARANCE SURVEYED BY NMDOT DISTRICT 4 ON MAY 3, 2017



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION
BRIDGE No. 7345

BRIDGE PROFILE

STA. 840+48.62 SHEET NO. 5-6

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

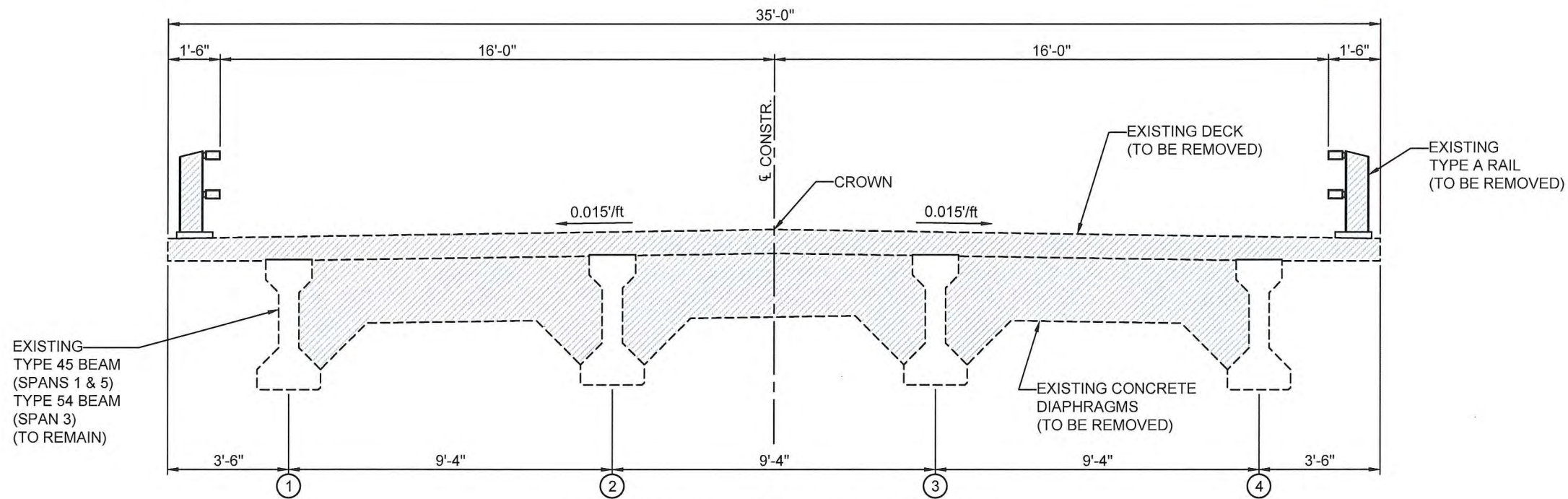
APPROVED FOR CONSTRUCTION: *Kimberly Coleman* DATE: 2/20/2018



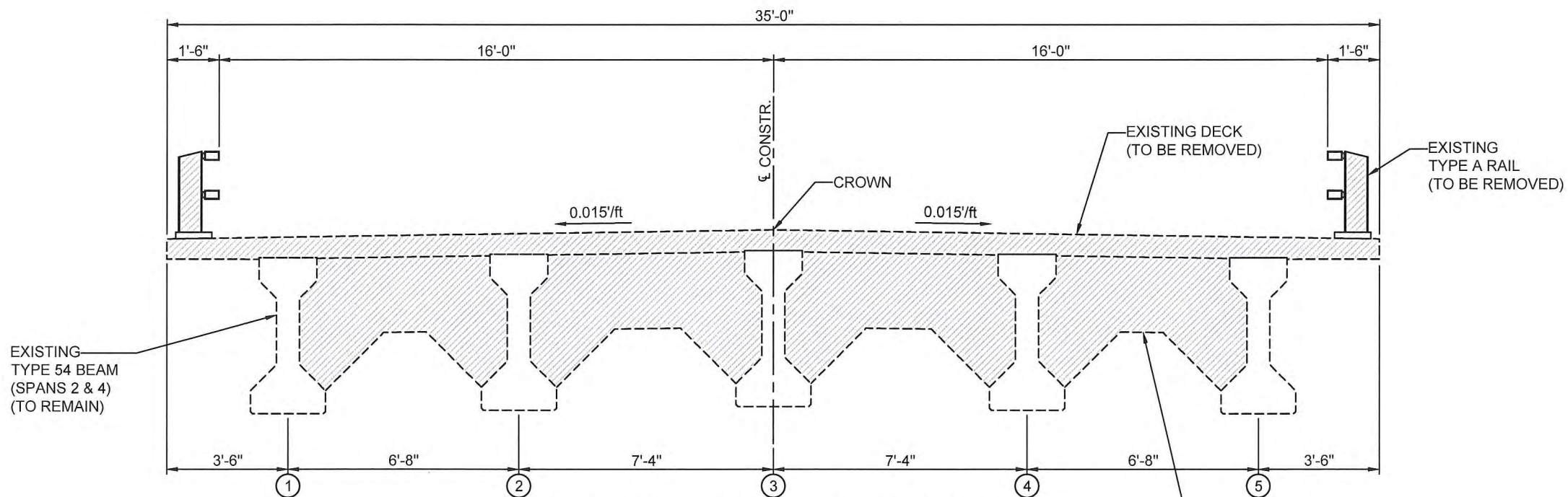
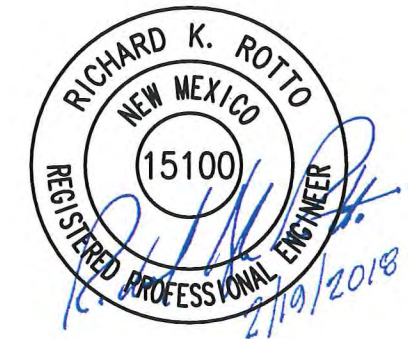
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-7

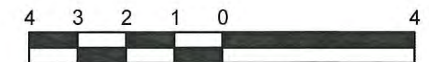
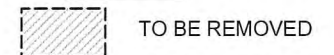


EXISTING TRANSVERSE SECTION
SPANS 1, 3 AND 5



EXISTING TRANSVERSE SECTION
SPANS 2 AND 4

LEGEND



SCALE: 1" = 4'-0"



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

EXISTING TRANSVERSE
SECTIONS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

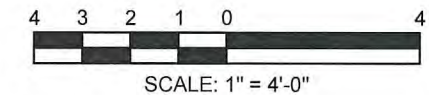
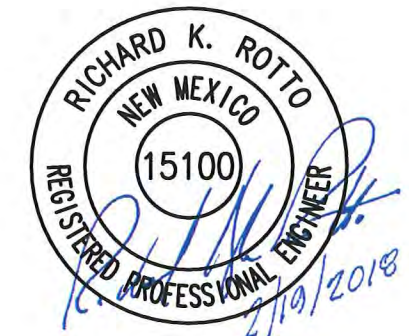
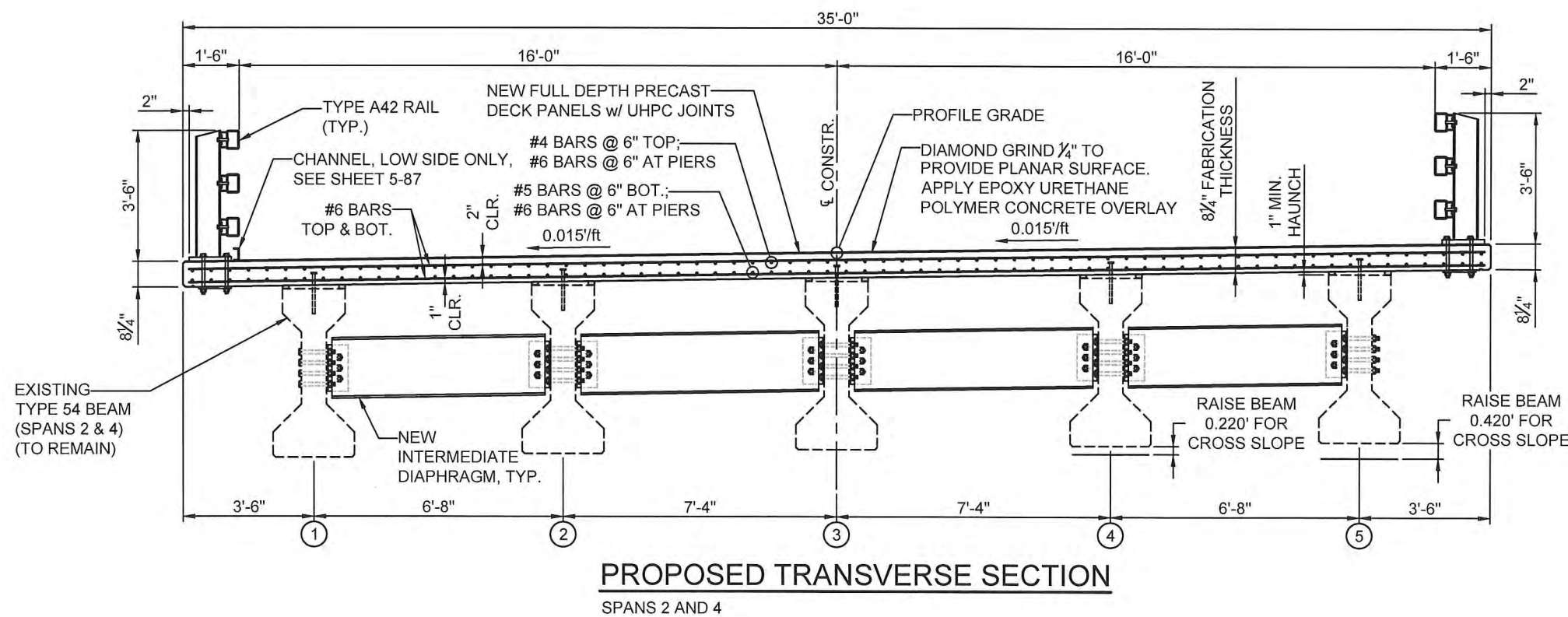
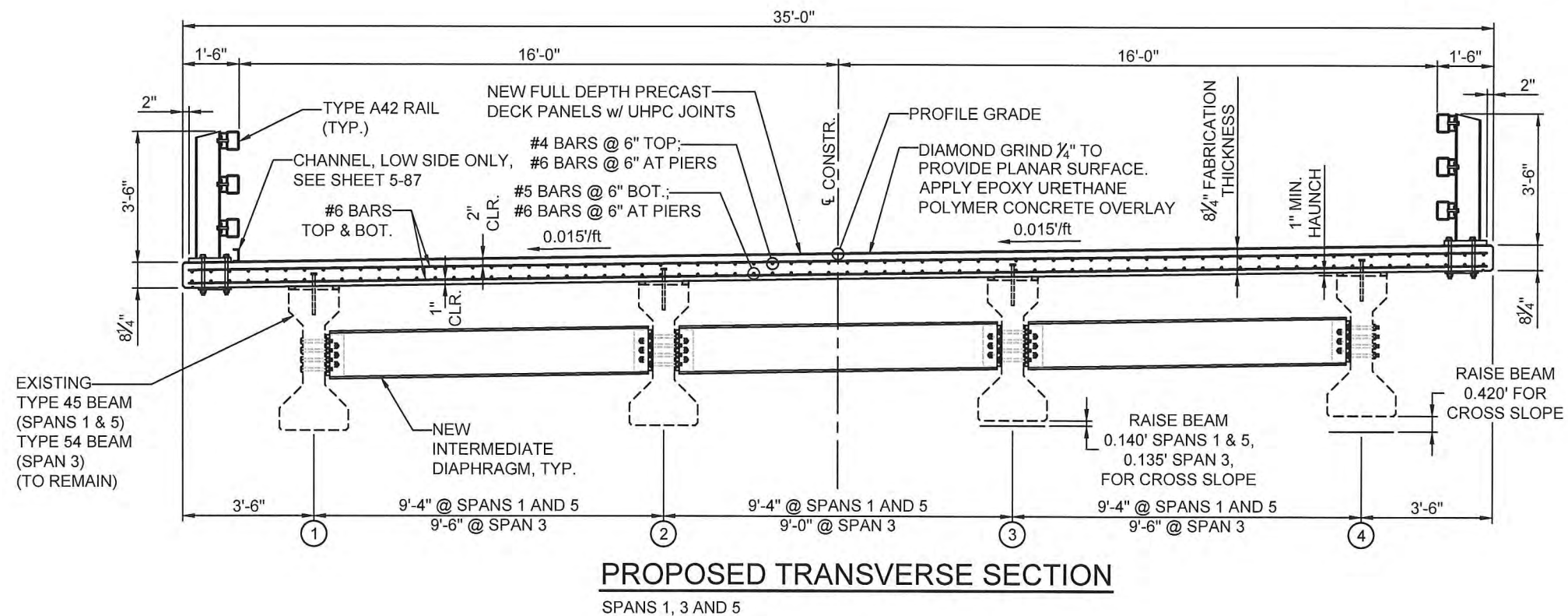
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-8



BRIDGE			
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION
BRIDGE No. 7345

PROPOSED TRANSVERSE SECTIONS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

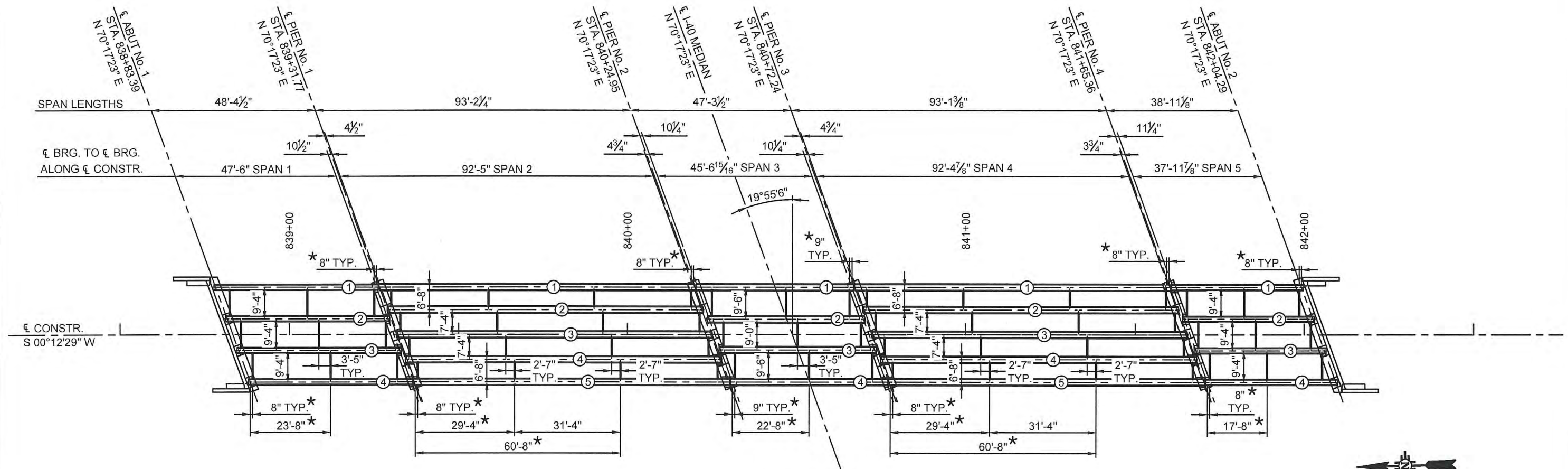
APPROVED FOR CONSTRUCTION: *Kimberly Coleman* DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

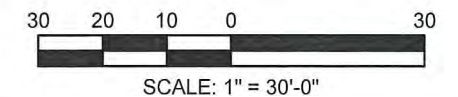
CONTROL No.
4101490

SHEET No.
5-9



FRAMING PLAN

* DIMENSIONS ARE FOR DIAPHRAGM LOCATIONS FROM ϵ BRG. TO ϵ DIAPHRAGM



NOTES:

- EXISTING GIRDERS TO BE REUSED AND RESET TO MATCH PANELS. HORIZONTAL AND VERTICAL ADJUSTMENTS ARE ANTICIPATED.
- GIRDERS ② AND ③ ON SPAN 3 ARE TO BE RESET AS SHOWN TO PREVENT FOULING OF PROPOSED BEARING ASSEMBLIES.
- INSTALL NEW STEEL DIAPHRAGMS AS SHOWN. CORE DRILL CONNECTIONS THROUGH BEAM WEBS, USE NON DESTRUCTIVE TESTING TO VERIFY REINFORCEMENT LOCATIONS. DO NOT DAMAGE REINFORCEMENT.
- COSTS FOR ADJUSTMENT OF GIRDERS AND LIFTING OF GIRDERS IN SPAN 3 SHALL BE INCLUDED IN "ITEM No. 529000 - PIER AND ABUTMENT BEARING MODIFICATIONS".



BRIDGE				REVISIONS			
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1							
2							
3							

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

FRAMING PLAN

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

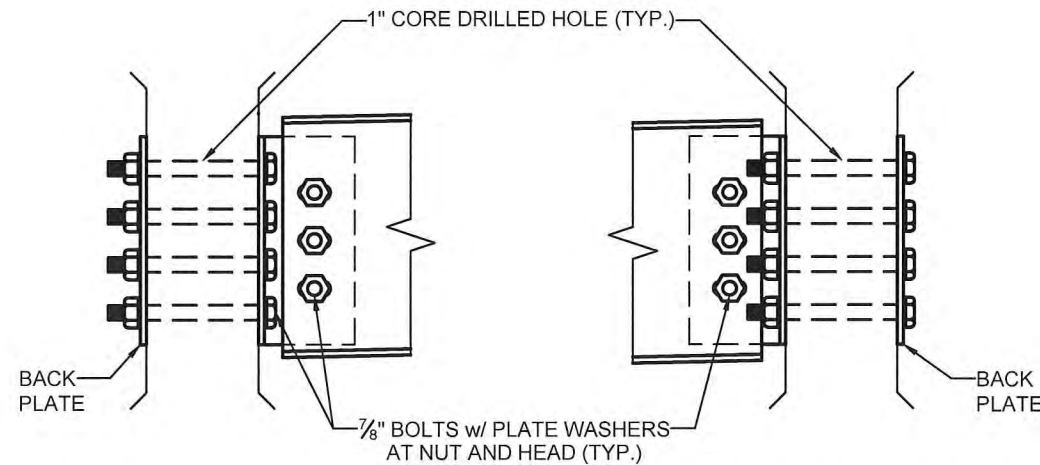
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-10



INTERIOR GIRDER CONNECTION DETAIL

EXTERIOR GIRDER CONNECTION DETAIL

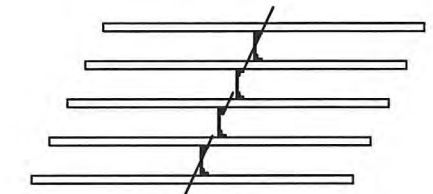
- m = SLOPE OF BENT PLATE DIAPHRAGM (1.5 FOR 0.015'/ft).
- A = THICKNESS OF GIRDER WEB PLUS 3" (SEE TABLE).
- B = DISTANCE FROM TOP OF STEEL DIAPHRAGM TO CENTER OF FIRST HOLE.
- C = DISTANCE FROM TOP OF BEAM TO | OF FIRST INSERT.
- D = DISTANCE FROM CLIP ANGLE EDGE TO CENTER OF FIRST HOLE (CLIP ANGLE/DIAPHRAGM CONNECTION).
- H = DEPTH OF BENT PLATE DIAPHRAGM.
- L = LENGTH OF BACK PLATES AND CLIP ANGLES.
- N = NUMBER OF BOLT SPACES IN GIRDER/CLIP ANGLE CONNECTION.
- S1 = HOLE SPACING.

PRESTRESSED CONCRETE BEAM TYPE	H (in.)	A (in.)	B (in.)	C (in.)	D (in.)	L (in.)	N	S1 (in.)	DIAPHRAGM UNIT WEIGHT (lb/ft)*	CLIP ANGLE WEIGHT (lb)	BACK PLATE WEIGHT (lb)
TYPE 45	15	10	4 1/2	16 1/2	3 1/2	13	3	3	28	16	7
TYPE 54	21	11	6 1/2	19 1/2	4	16	3	4	36	20	9

* MULTIPLY BY DIAPHRAGM LENGTH (S-A) TO OBTAIN DIAPHRAGM WEIGHT.

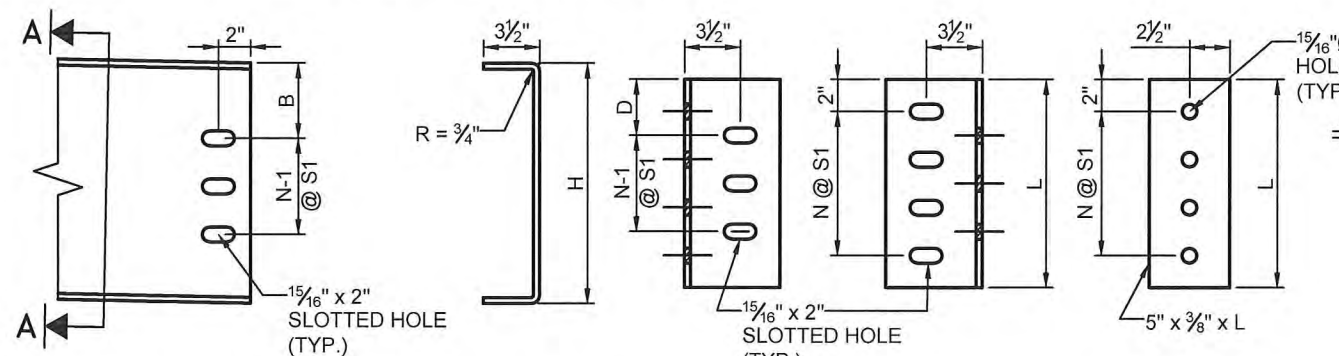
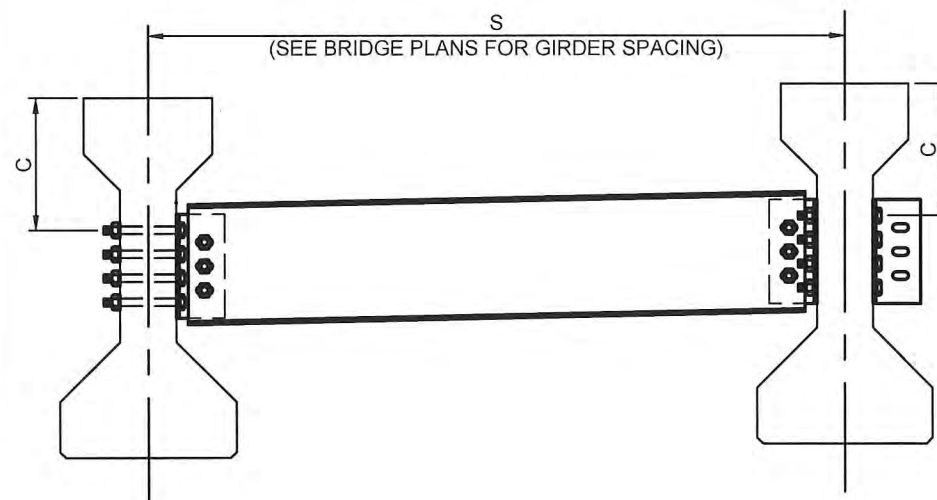
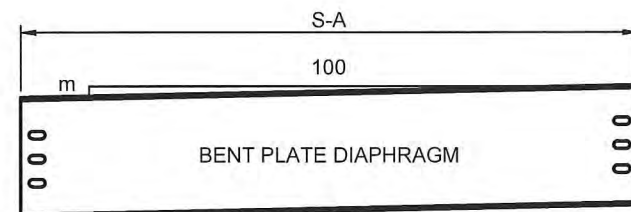
NOTES:

- ALL STRUCTURAL STEEL ELEMENTS IN THIS DETAIL SHALL BE COMPOSED OF WEATHERING STEEL CONFORMING TO AASHTO M270, GRADE 50W, OR HOT-DIPPED GALVANIZED STEEL CONFORMING TO AASHTO M270, GRADE 36. IF WEATHERING STEEL IS USED, ALL ELEMENTS SHALL BE SAND BLASTED TO SSPC SP-6 AND WET PRIOR TO SHIPPING. PAINTING OF THESE ELEMENTS IS NOT REQUIRED.
- BOLTS SHALL MEET THE REQUIREMENTS OF ASTM F3125 - GRADE A325. IF WEATHERING STEEL IS USED FOR THIS DETAIL, TYPE 3 WEATHERING STEEL BOLTS SHALL BE USED. IF GALVANIZED STEEL ELEMENTS ARE USED, BOLTS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232.
- DIAPHRAGMS SHALL BE OFFSET TO FACILITATE THE INSTALLATION OF THE BACK PLATES. SEE FRAMING PLAN.
- HOLES SHALL BE CORE DRILLED. THE VERTICAL DISTANCE BETWEEN ANY TWO HOLES SHALL NOT VARY FROM THE SPECIFIED DISTANCE BY MORE THAN 1/16". ALSO, THE TOTAL LENGTH OF THE GROUP OF HOLES SHALL NOT VARY FROM THE DESIGN LENGTH BY MORE THAN 1/16". THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE PROPER PLACEMENT OF HOLES.
- CLIP ANGLES AND BACK PLATES SHALL BE ATTACHED TO THE PRESTRESSED GIRDER AT THE BRIDGE SITE. DIAPHRAGM INSTALLATION SHALL BE COMPLETED PRIOR TO DECK PLACEMENT.
- LOCATE AND MARK EXISTING GIRDER REINFORCING AND PRESTRESSING BY APPROVED SCIENTIFIC NON-DESTRUCTIVE TESTING. ESTABLISH AND MARK PROPOSED CORE DRILLING LOCATIONS PRIOR TO PREPARATION OF THE WORKING DRAWINGS FOR THE FABRICATION OF THE STEEL DIAPHRAGMS AND PRIOR TO REMOVAL OF THE EXISTING DIAPHRAGMS. VERIFY CORE DRILLING LOCATIONS WILL NOT FOUL WITH EXISTING REINFORCEMENT. SUBMIT WORKING DRAWINGS DENOTING PROPOSED LOCATIONS TO AVOID DAMAGING GIRDER REINFORCEMENT. NON-DESTRUCTIVE TESTING AND CORE DRILLING SHALL BE INCLUDED IN "ITEM No. 541000 - STRUCTURAL STEEL FOR CONCRETE BRIDGES" AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THERE OF.
- ALL STEEL DIAPHRAGMS SHALL BE STAMPED OR MARKED WITH PAINT ON THE UP-STATION FACE OF DIAPHRAGM INDICATING PLACEMENT OF DIAPHRAGM LEFT OR RIGHT OF CENTERLINE OF CONSTRUCTION.
- BENT PLATE DIAPHRAGMS, CLIP ANGLES, BACK PLATES AND BOLTS SHALL BE PAID FOR UNDER "ITEM No. 541000 - STRUCTURAL STEEL FOR CONCRETE BRIDGES".



DIAPHRAGM PLACEMENT PATTERN

(SEE FRAMING PLAN FOR LOCATIONS)



3/8" BENT PLATE DIAPHRAGM

SEE TABLE FOR HEIGHT "H"



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40 BRIDGE REHABILITATION

BRIDGE No. 7345

STEEL DIAPHRAGM DETAILS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

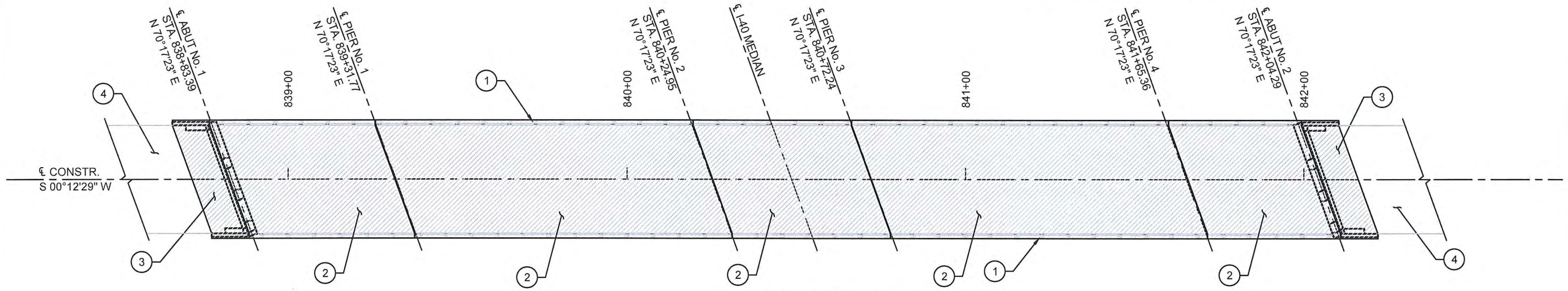
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



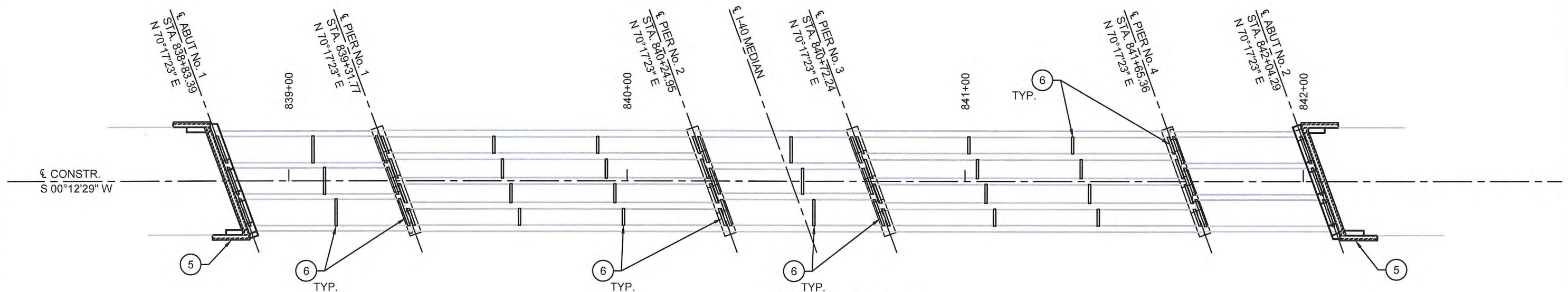
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-11



SUPERSTRUCTURE



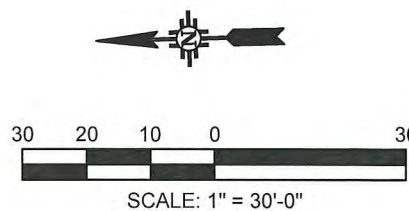
SUBSTRUCTURE

SCOPE OF WORK

- 1 REMOVE EXISTING METAL RAILING.
- 2 REMOVE EXISTING CONCRETE DECK WITH CARE.
- 3 REMOVE EXISTING APPROACH SLABS.
- 4 REMOVE EXISTING PCCP FOR NEW BRIDGE APPROACHES.
- 5 REMOVE TOP PORTION OF EXISTING ABUTMENT BACKWALL AND WINGWALLS. SEE SHEET 5-12 OF PLANS FOR DETAILS.
- 6 REMOVE EXISTING END AND INTERMEDIATE CONCRETE DIAPHRAGMS.

LEGEND

TO BE REMOVED



BRIDGE			
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

REMOVALS PLAN

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

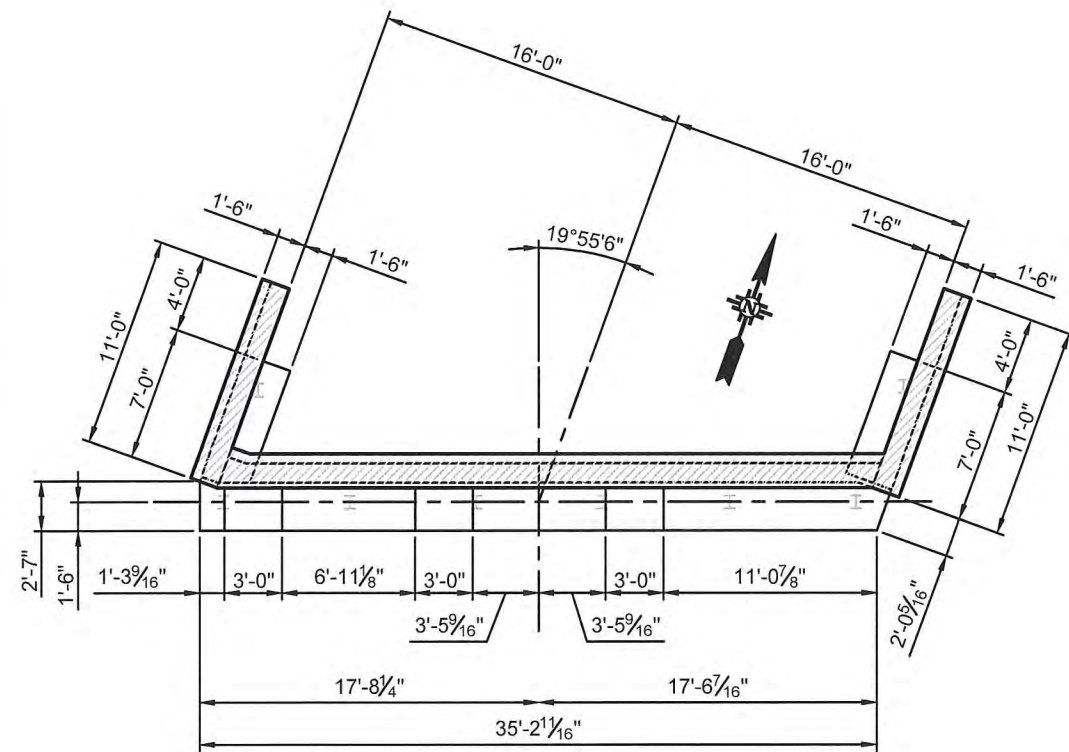
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



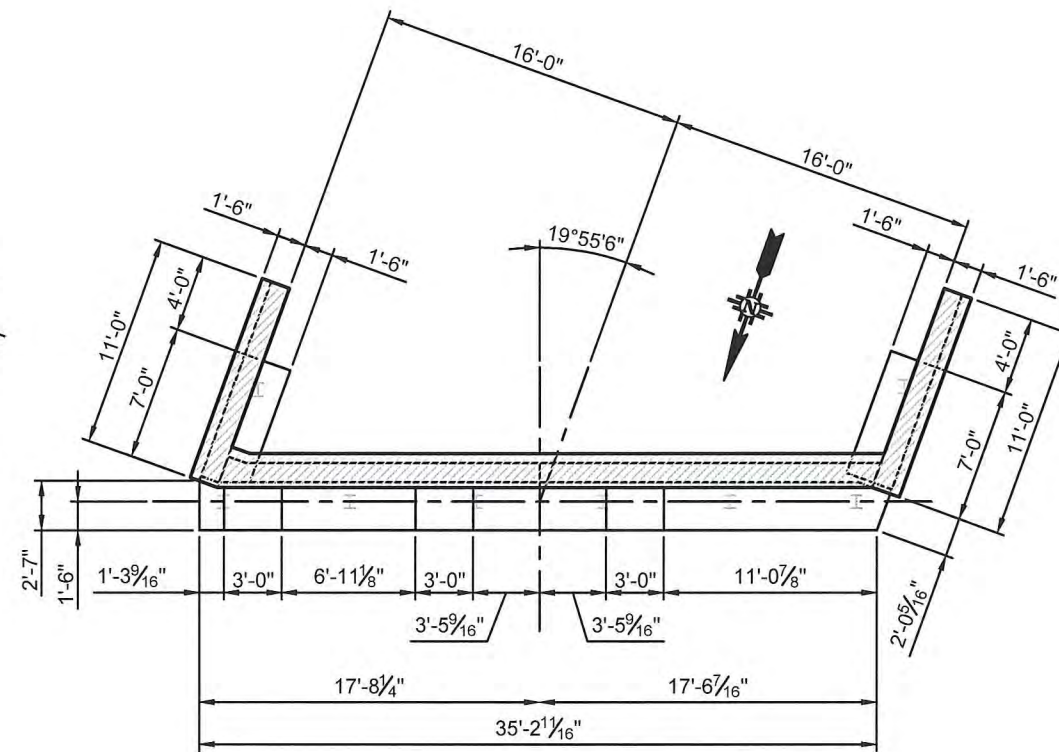
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

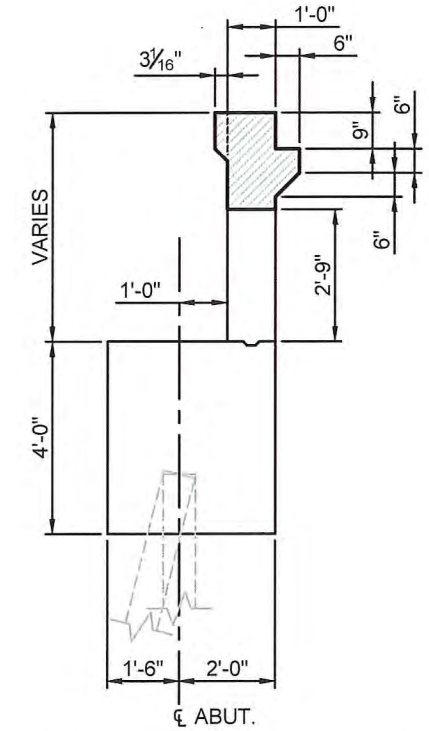
SHEET No.
5-12



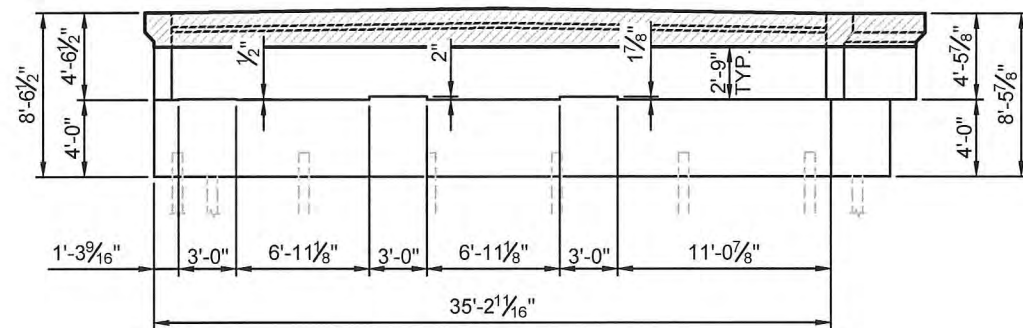
EXISTING ABUTMENT No. 1 PLAN



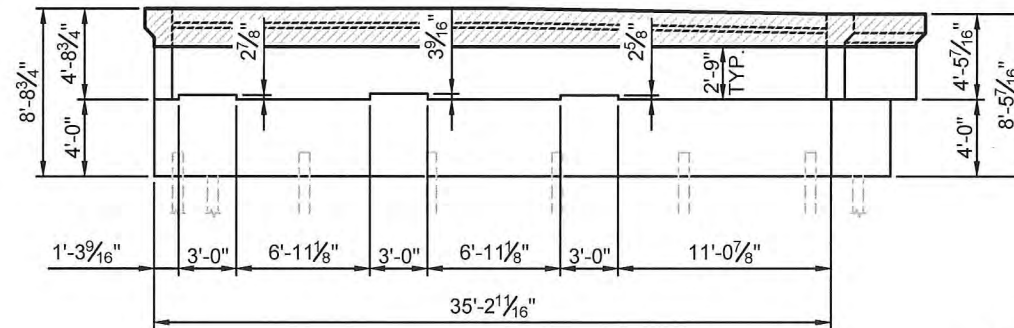
EXISTING ABUTMENT No. 2 PLAN



SECTION THRU EXISTING ABUTMENT AND BACKWALL



EXISTING ABUTMENT No. 1 ELEVATION



EXISTING ABUTMENT No. 2 ELEVATION



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION
BRIDGE No. 7345

ABUTMENT REMOVALS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

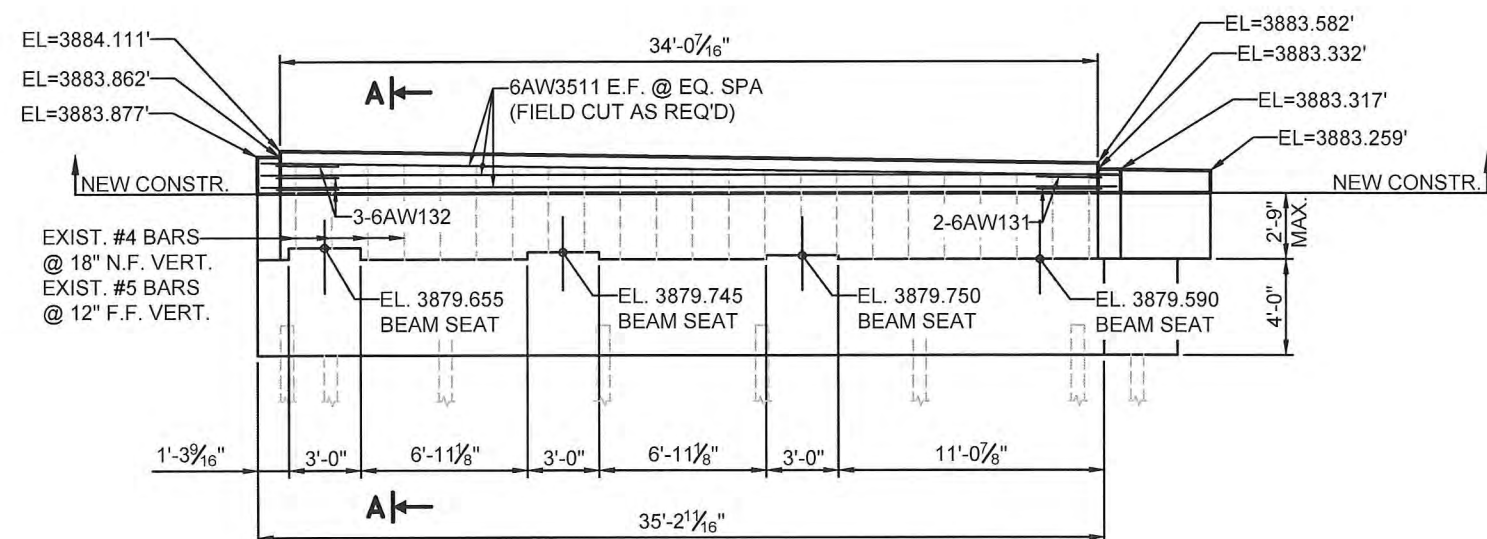
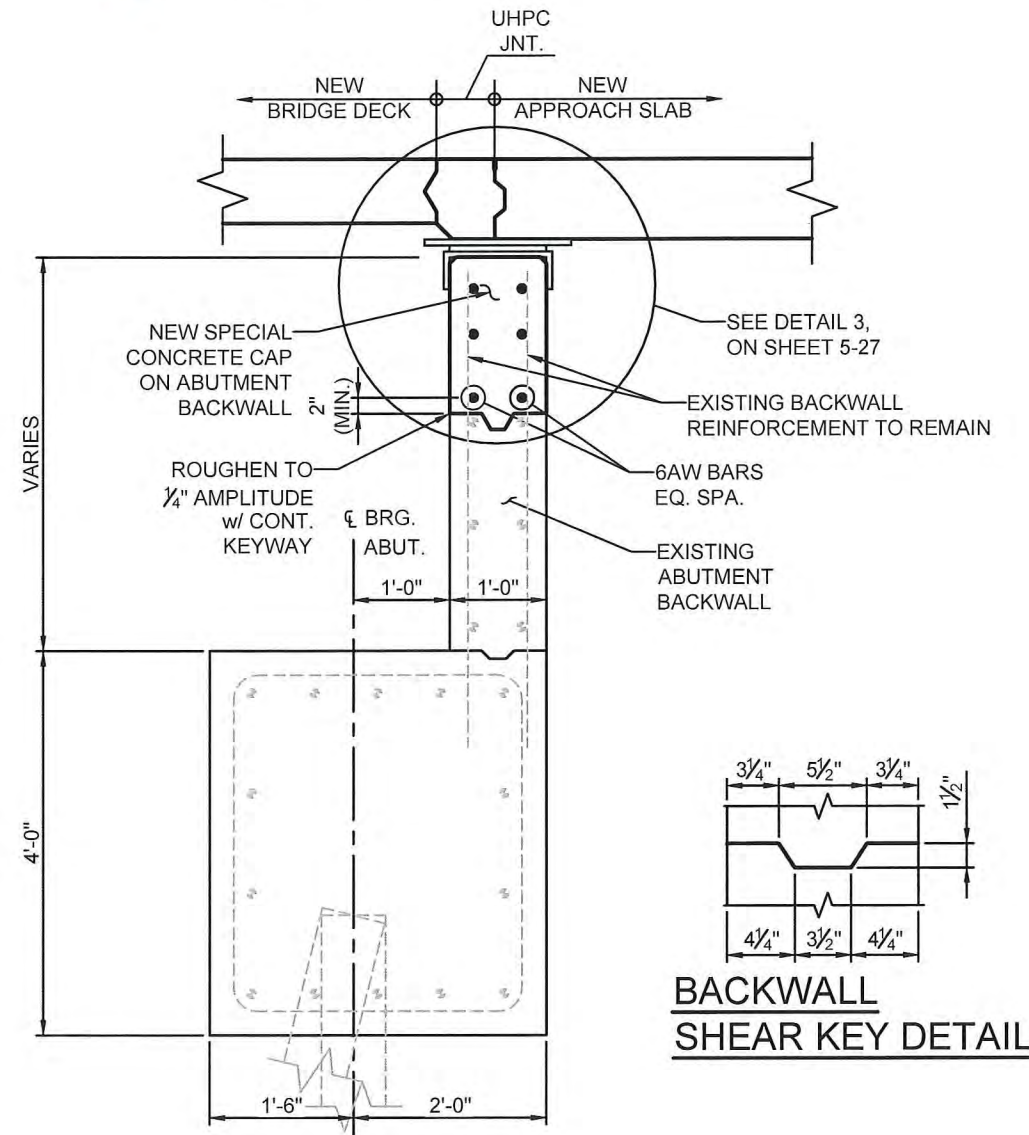
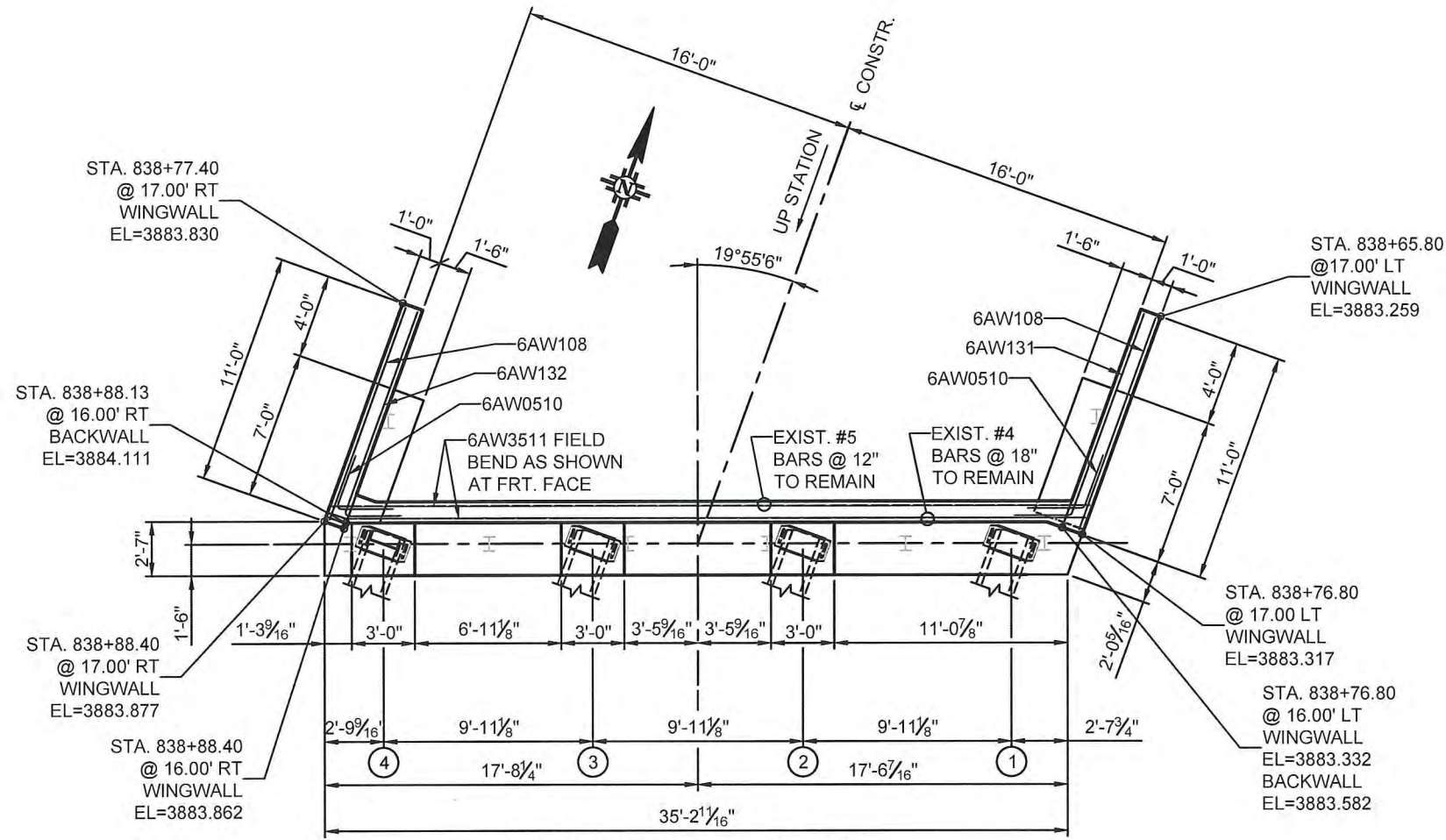
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-13



BRIDGE			
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40 BRIDGE REHABILITATION

BRIDGE No. 7345

ABUTMENT 1
PLAN AND ELEVATION

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

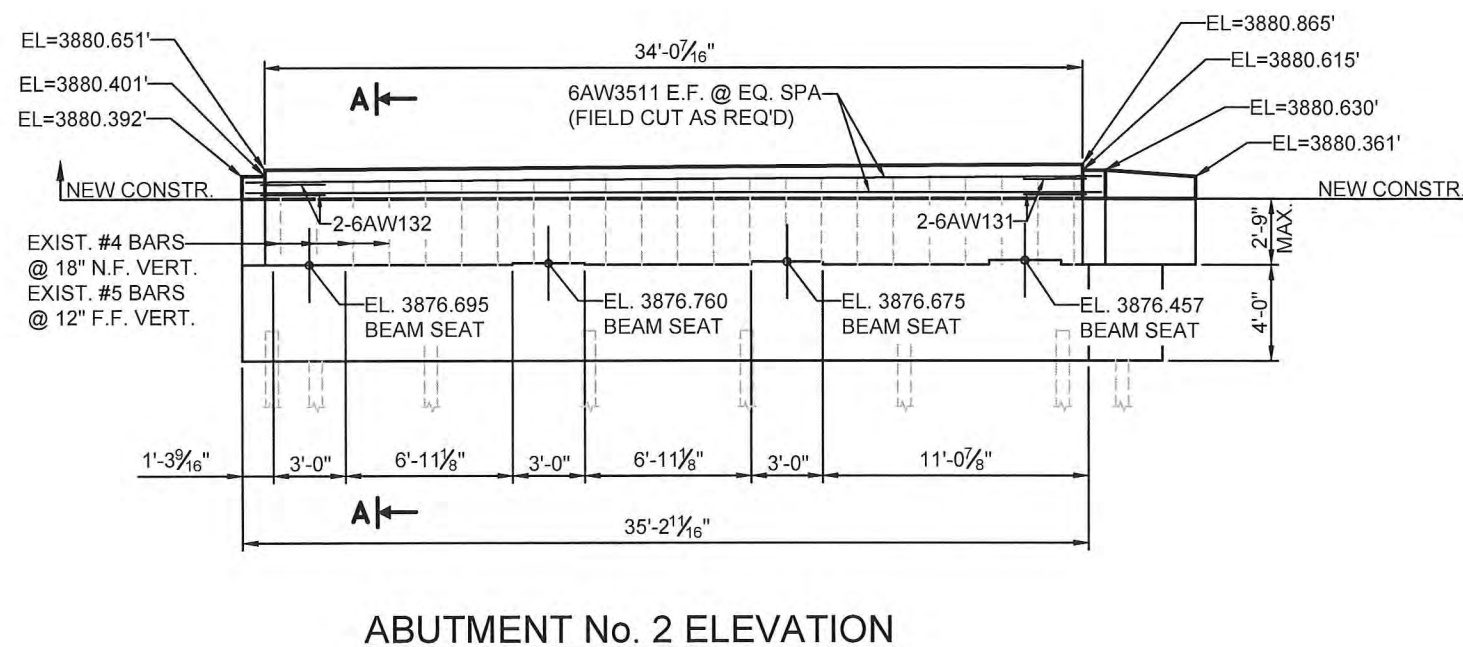
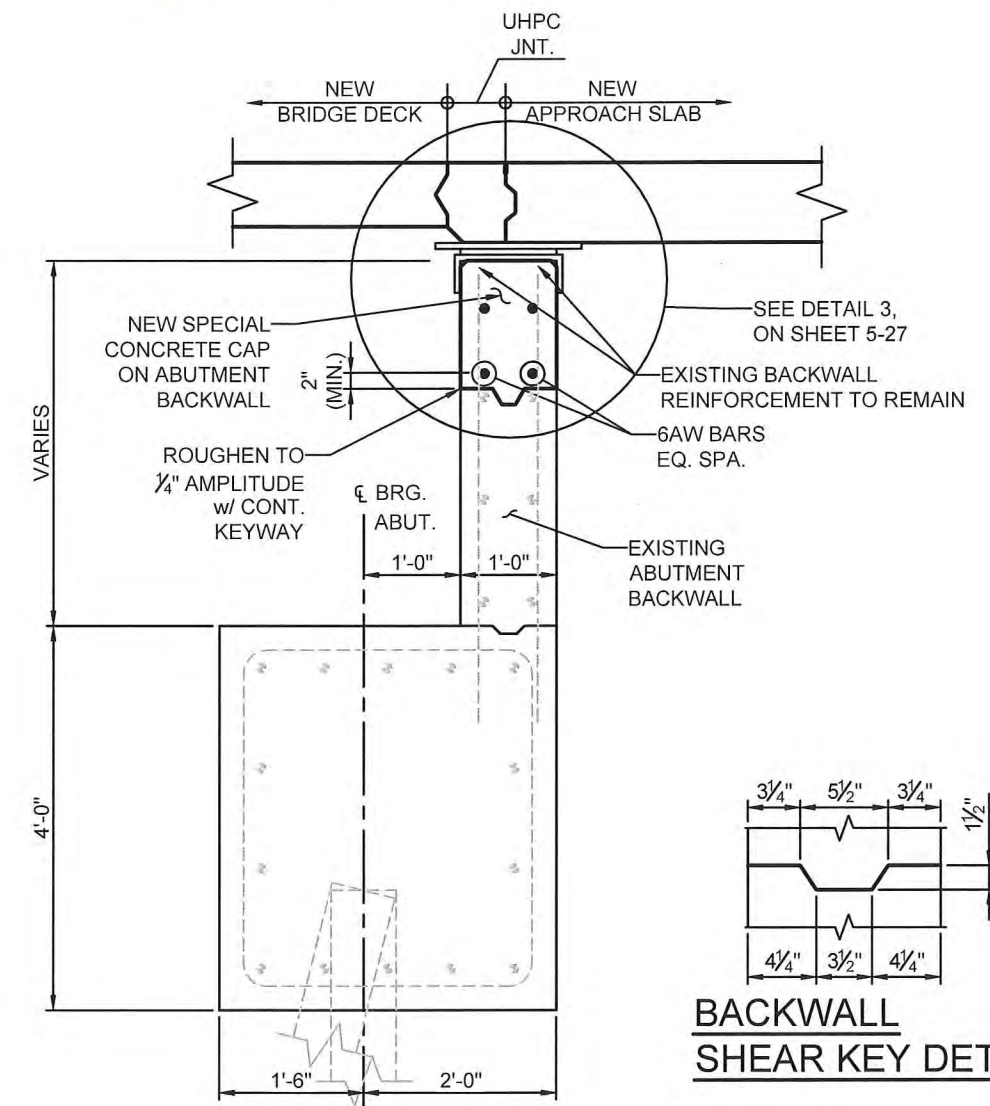
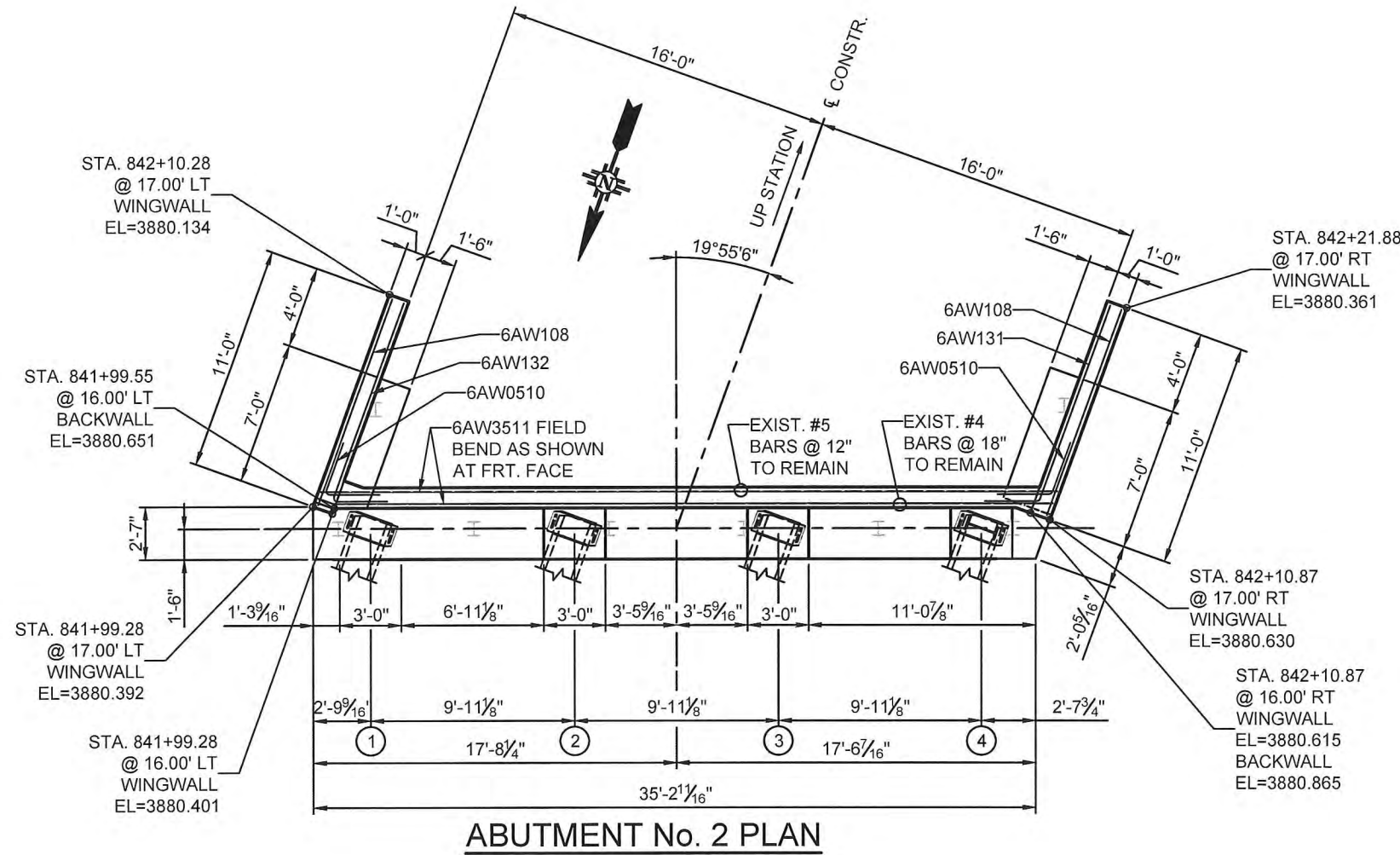
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-14



BRIDGE: REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION
BRIDGE No. 7345

ABUTMENT 2
PLAN AND ELEVATION

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

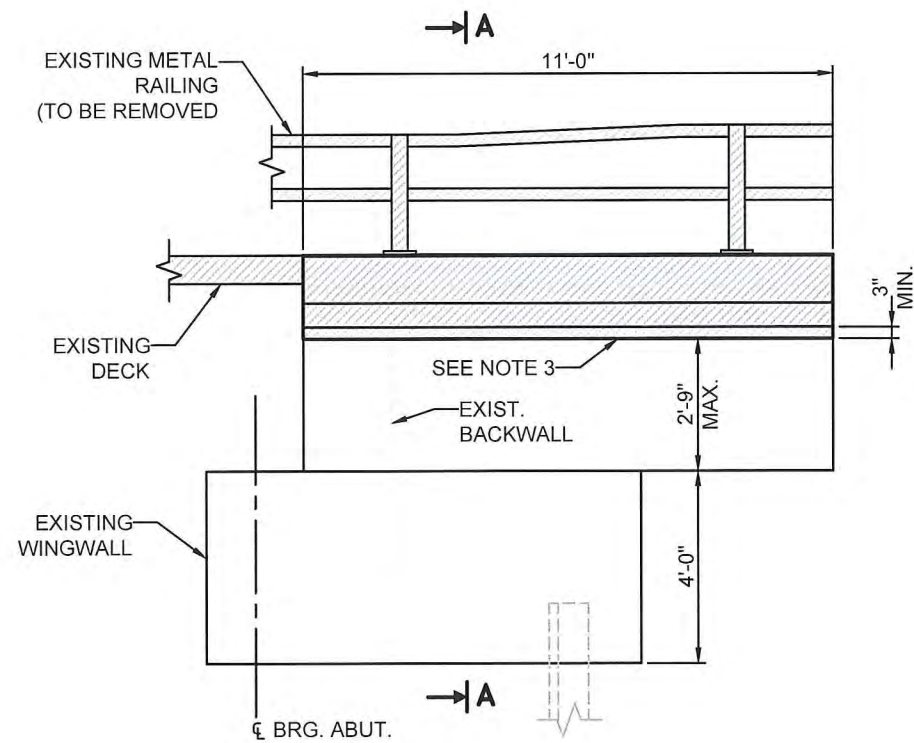
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



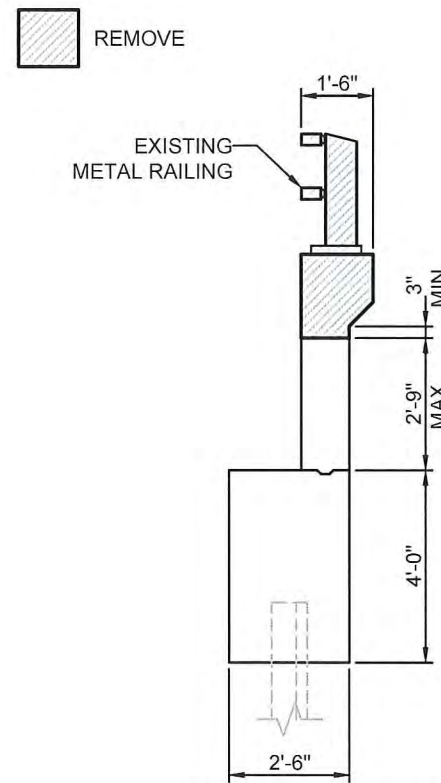
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

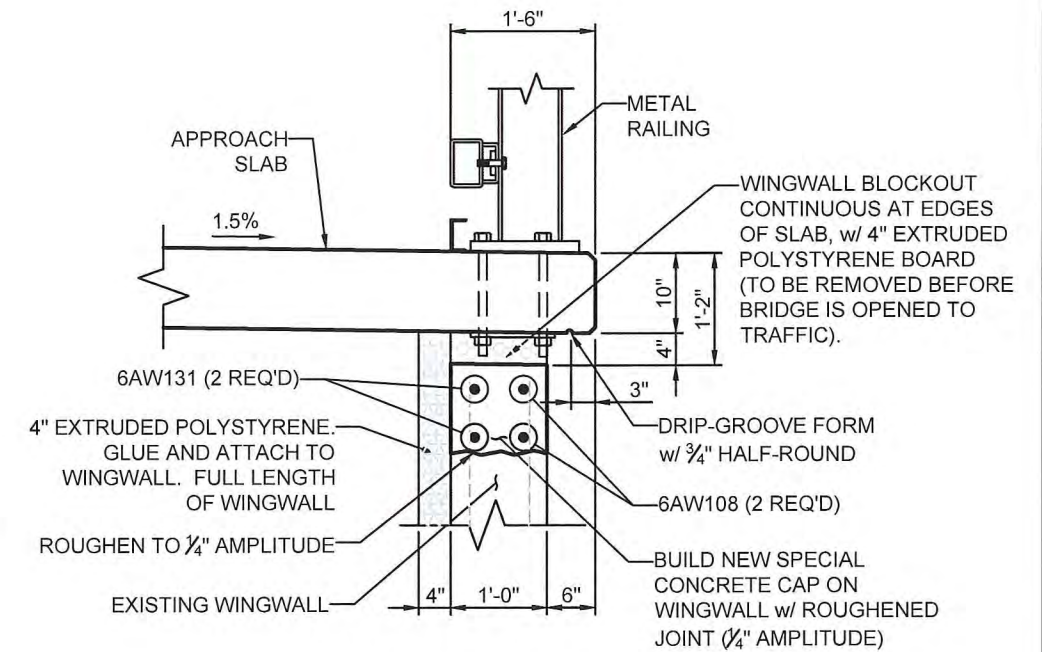
SHEET No.
5-15



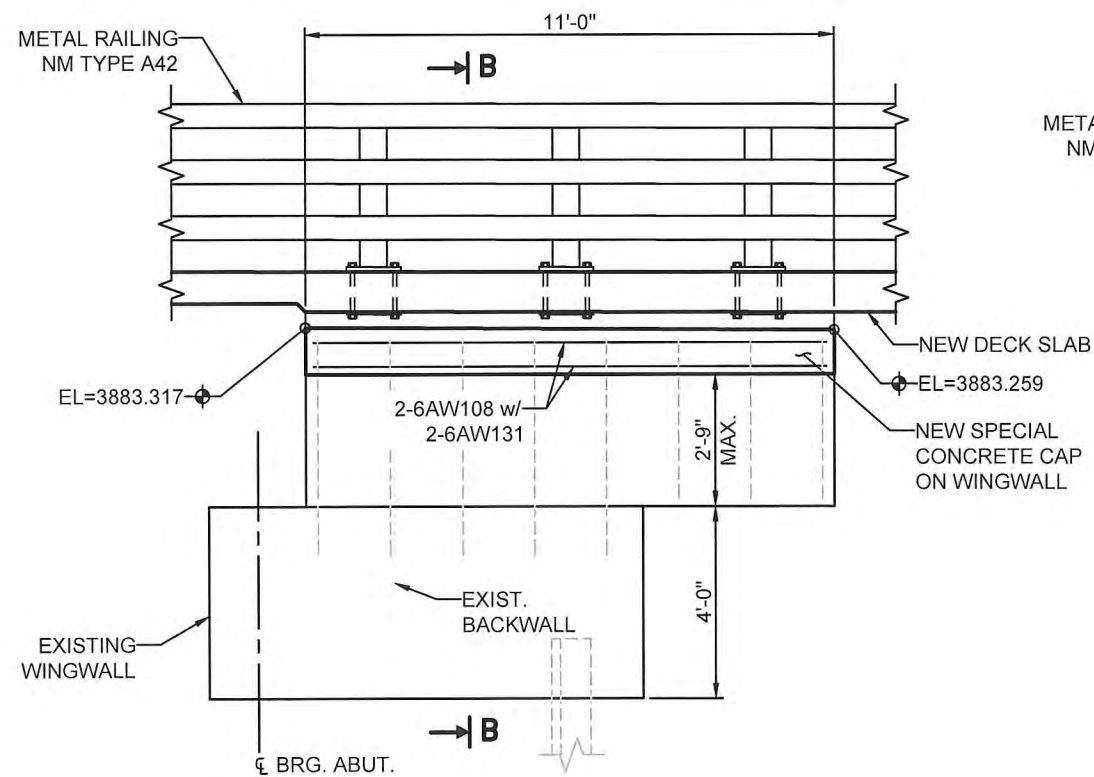
WINGWALL 1L ELEVATION
EXISTING



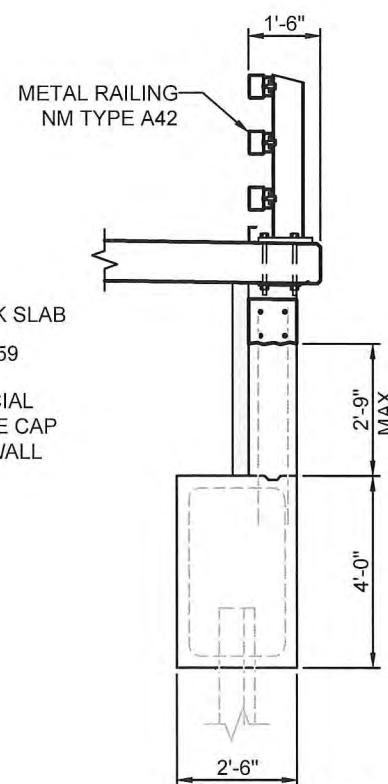
SECTION A-A
EXISTING



DETAIL 1
APPROACH SLAB 1 LT. EDGE



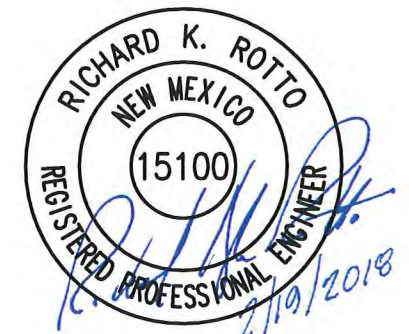
WINGWALL 1L ELEVATION
NEW



SECTION B-B
NEW

NOTES:

1. REMOVE EXISTING METAL RAILING.
2. REMOVE TOP OF WINGWALLS, TOP OF ABUTMENT BACKWALLS AND APPROACH SLABS AS PER DETAILS SHOWN. DELINEATE LIMITS OF CONCRETE REMOVAL WITH 3/8" SAW CUT BEFORE REMOVAL.
3. PRESERVE, STRAIGHTEN, AND CLEAN EXISTING VERTICAL REINFORCEMENT FOR REUSE IN CONCRETE CAPS ON WINGWALLS AND ABUTMENT BACKWALL.
4. COSTS FOR REMOVAL OF EXISTING METAL BARRIER RAILING, ABUTMENT BACKWALLS AND WINGWALLS SHALL BE INCLUDED IN THE PAYMENT FOR "ITEM No. 601000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS" AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR.



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

WINGWALL 1L
MODIFICATIONS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

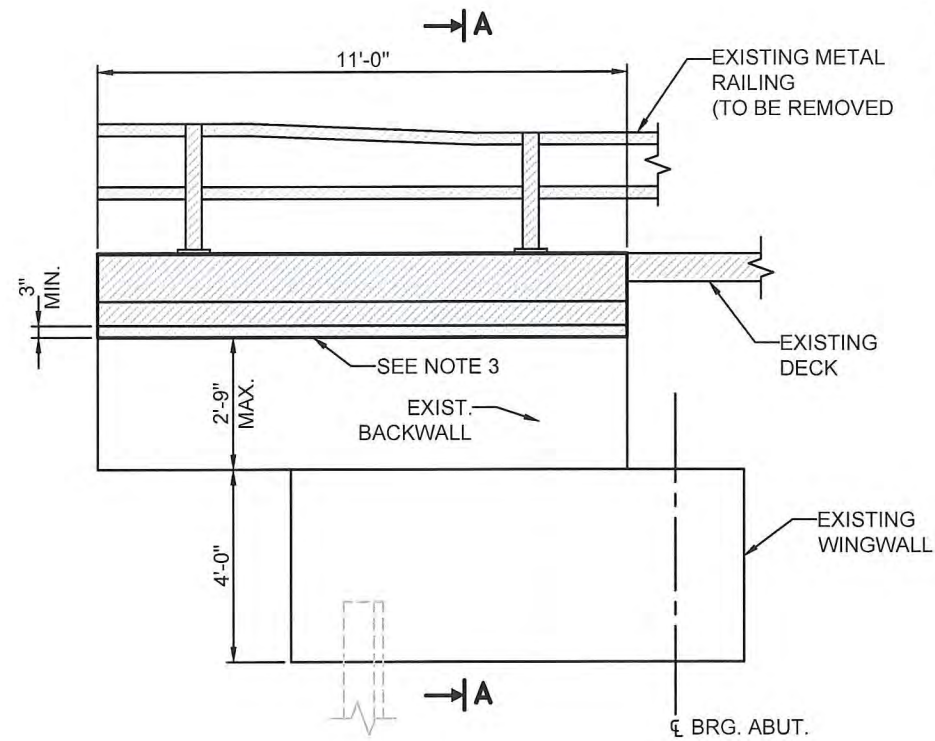
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



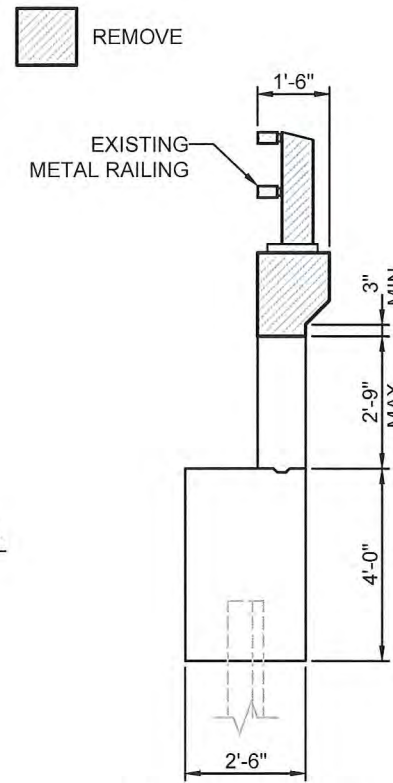
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

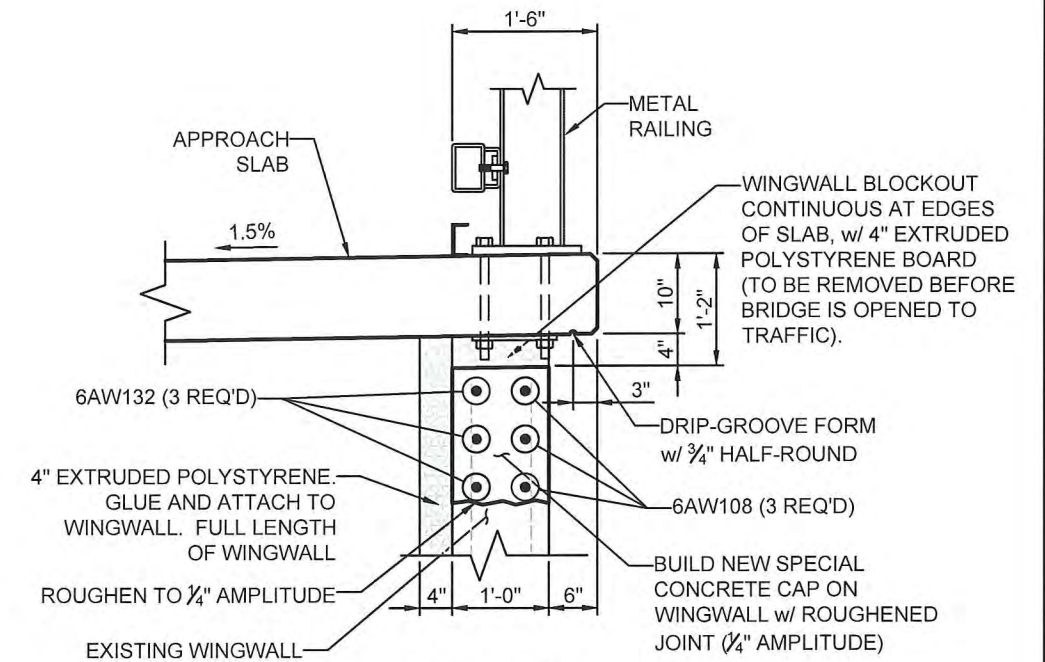
SHEET No.
5-16



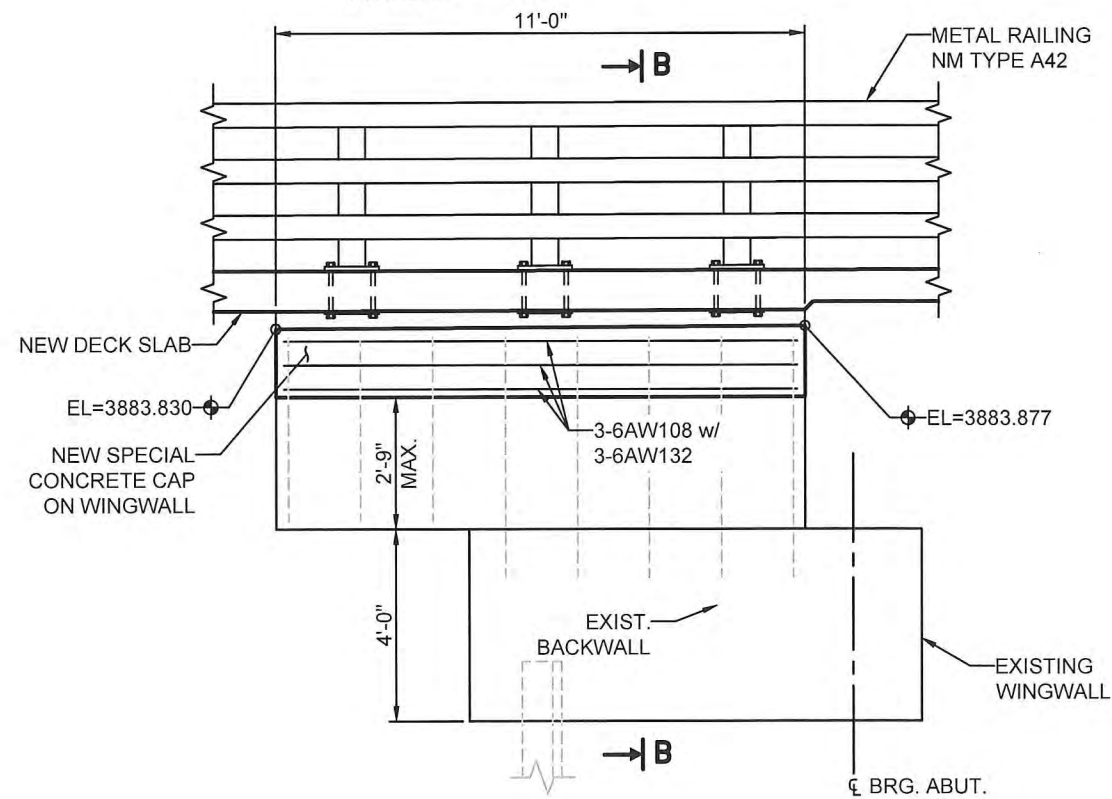
WINGWALL 1R ELEVATION
EXISTING



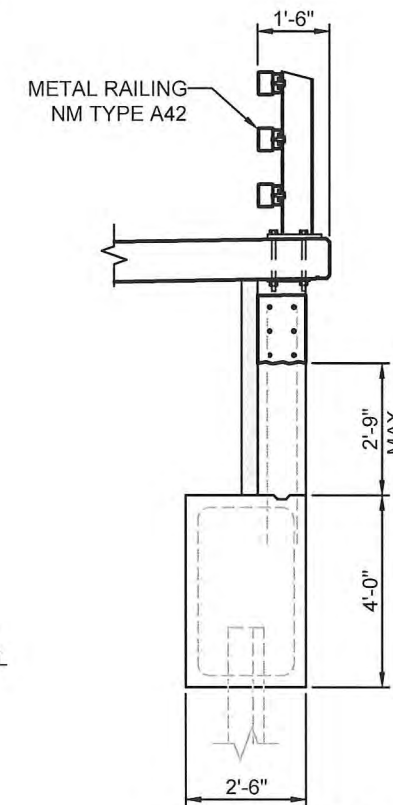
SECTION A-A
EXISTING



DETAIL 1
APPROACH SLAB 1 RT. EDGE



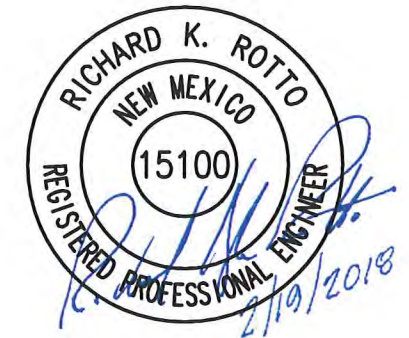
WINGWALL 1R ELEVATION
NEW



SECTION B-B
NEW

NOTES:

1. REMOVE EXISTING METAL RAILING.
2. REMOVE TOP OF WINGWALLS, TOP OF ABUTMENT BACKWALLS AND APPROACH SLABS AS PER DETAILS SHOWN. DELINEATE LIMITS OF CONCRETE REMOVAL WITH 3/4" SAW CUT BEFORE REMOVAL.
3. PRESERVE, STRAIGHTEN, AND CLEAN EXISTING VERTICAL REINFORCEMENT FOR REUSE IN CONCRETE CAPS ON WINGWALLS AND ABUTMENT BACKWALL.
4. COSTS FOR REMOVAL OF EXISTING METAL BARRIER RAILING, ABUTMENT BACKWALLS AND WINGWALLS SHALL BE INCLUDED IN THE PAYMENT FOR "ITEM No. 601000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS" AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR.



BRIDGE-			
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

WINGWALL 1R
MODIFICATIONS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

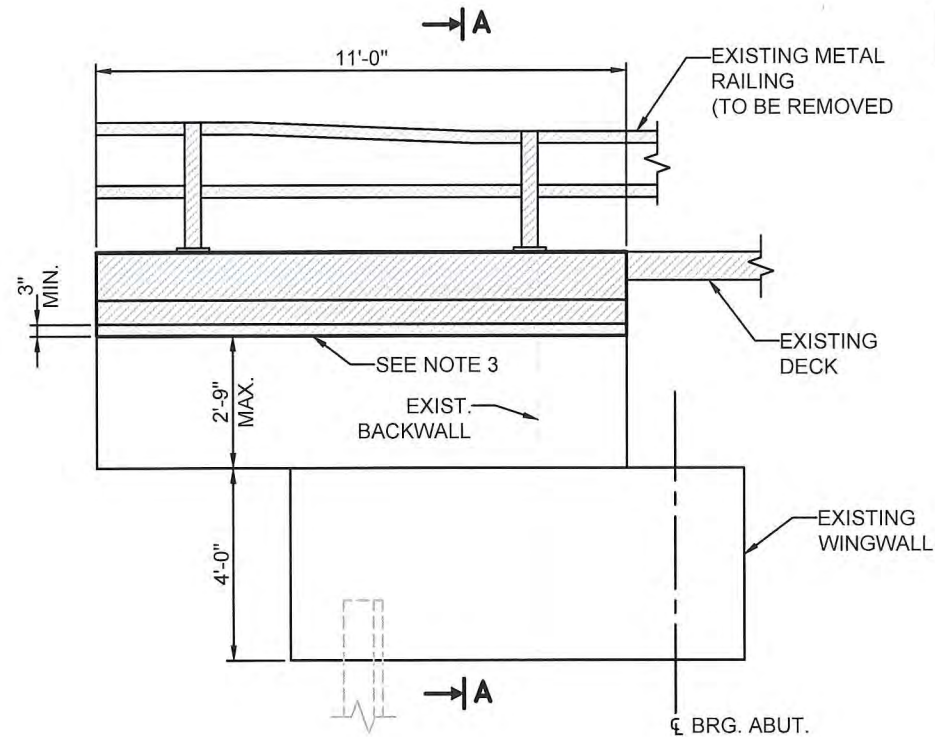
APPROVED FOR CONSTRUCTION: *Kimberly Coleman* DATE: 2/20/2018



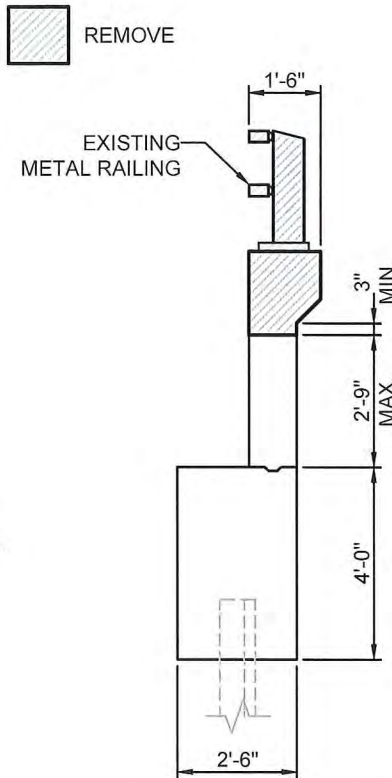
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

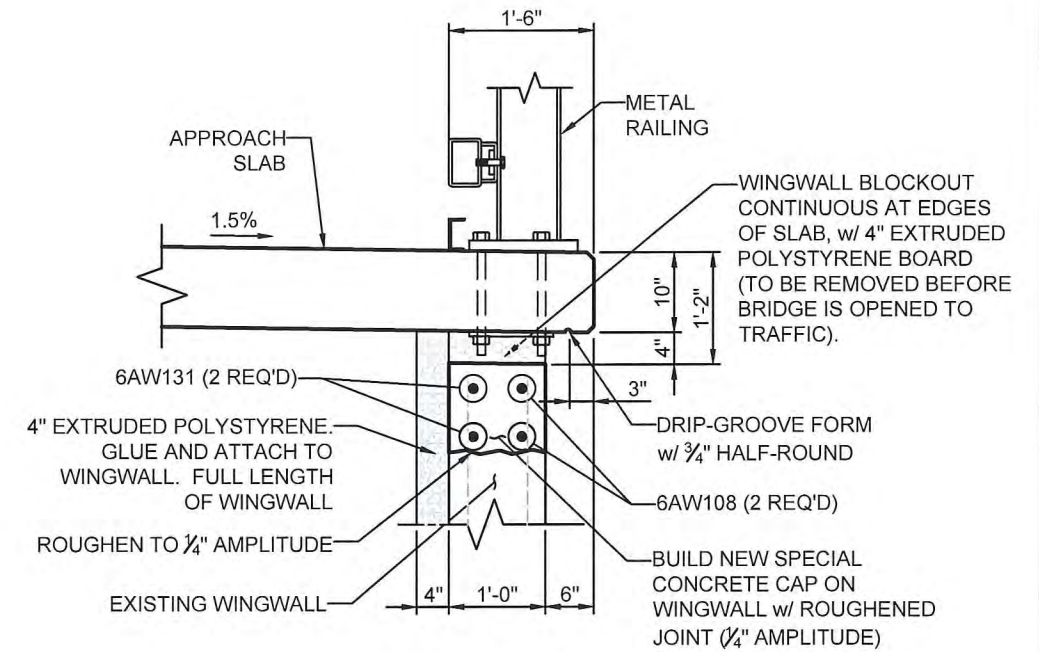
SHEET No.
5-17



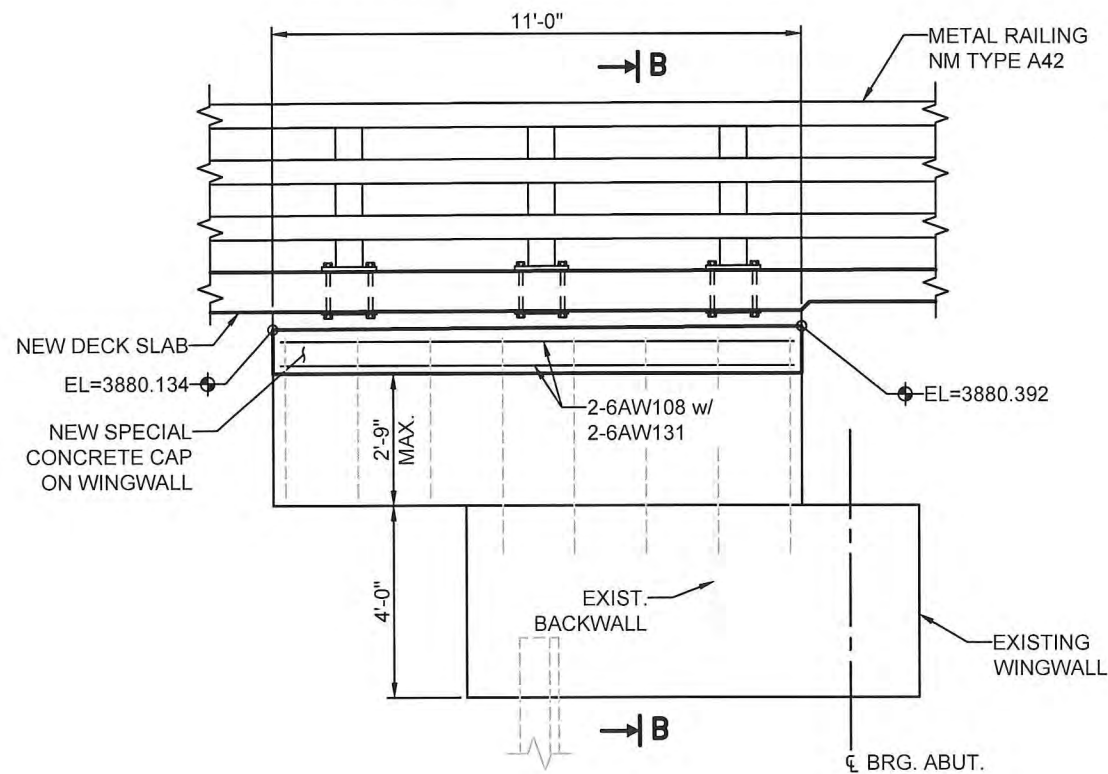
WINGWALL 2L ELEVATION
EXISTING



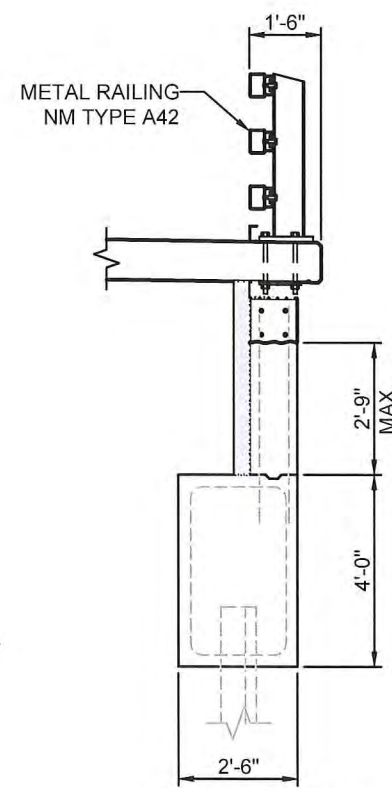
SECTION A-A
EXISTING



DETAIL 1
APPROACH SLAB 2 LT. EDGE



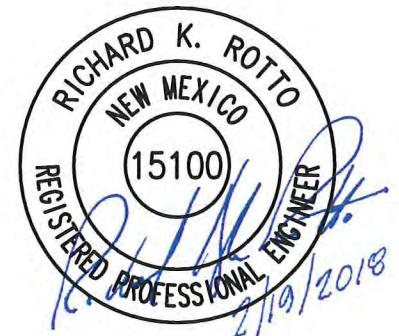
WINGWALL 2L ELEVATION
NEW



SECTION B-B
NEW

NOTES:

1. REMOVE EXISTING METAL RAILING.
2. REMOVE TOP OF WINGWALLS, TOP OF ABUTMENT BACKWALLS AND APPROACH SLABS AS PER DETAILS SHOWN. DELINEATE LIMITS OF CONCRETE REMOVAL WITH 3/4" SAW CUT BEFORE REMOVAL.
3. PRESERVE, STRAIGHTEN, AND CLEAN EXISTING VERTICAL REINFORCEMENT FOR REUSE IN CONCRETE CAPS ON WINGWALLS AND ABUTMENT BACKWALL.
4. COSTS FOR REMOVAL OF EXISTING METAL BARRIER RAILING, ABUTMENT BACKWALLS AND WINGWALLS SHALL BE INCLUDED IN THE PAYMENT FOR "ITEM No. 601000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS" AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR.



BRIDGE			
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

WINGWALL 2L
MODIFICATIONS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

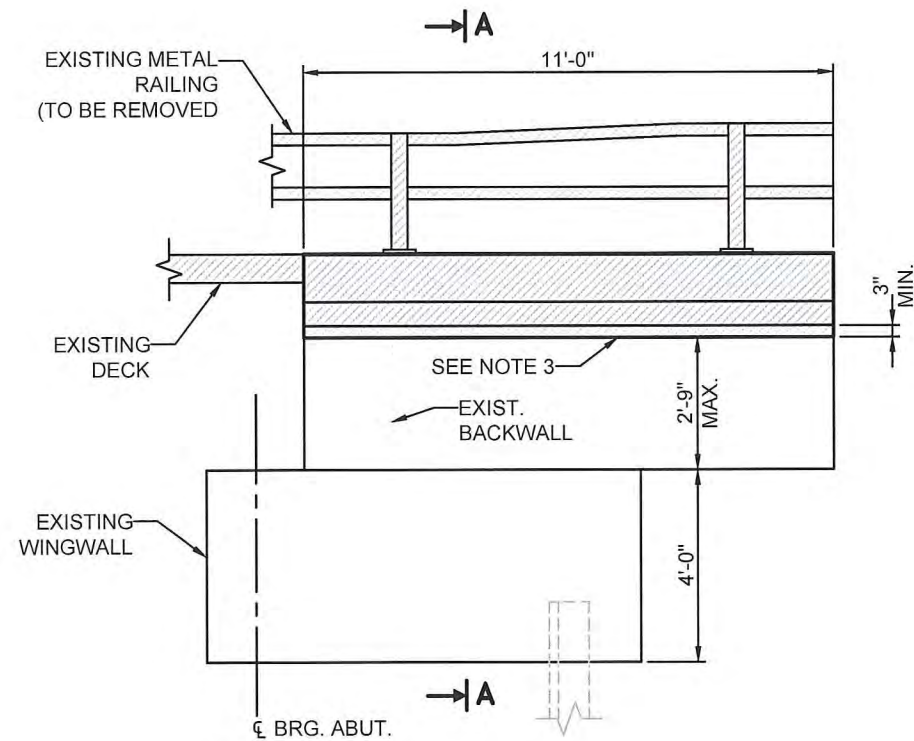
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



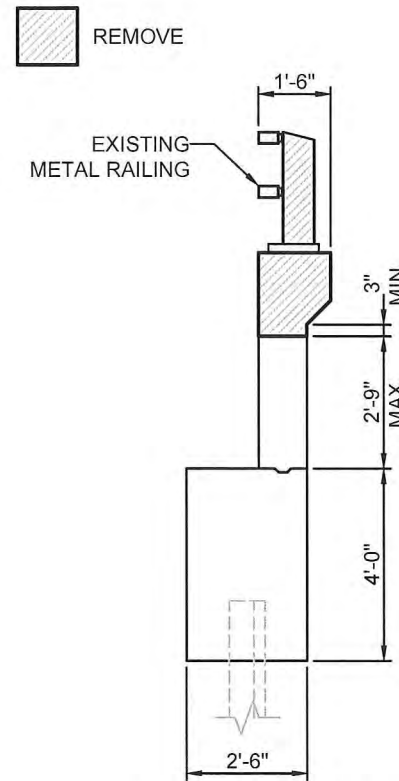
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

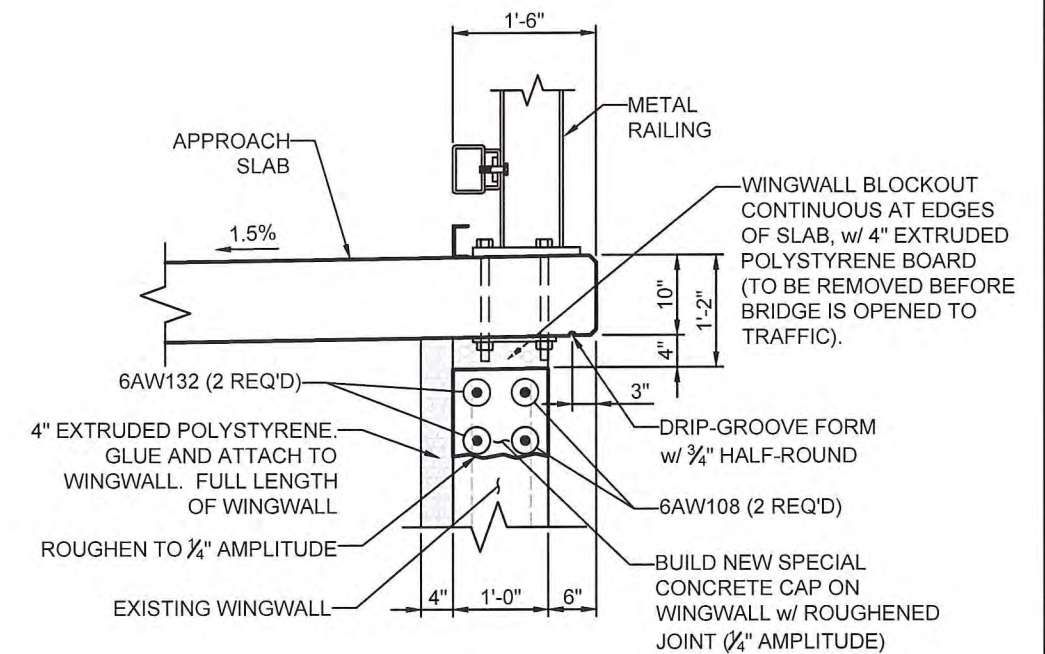
SHEET No.
5-18



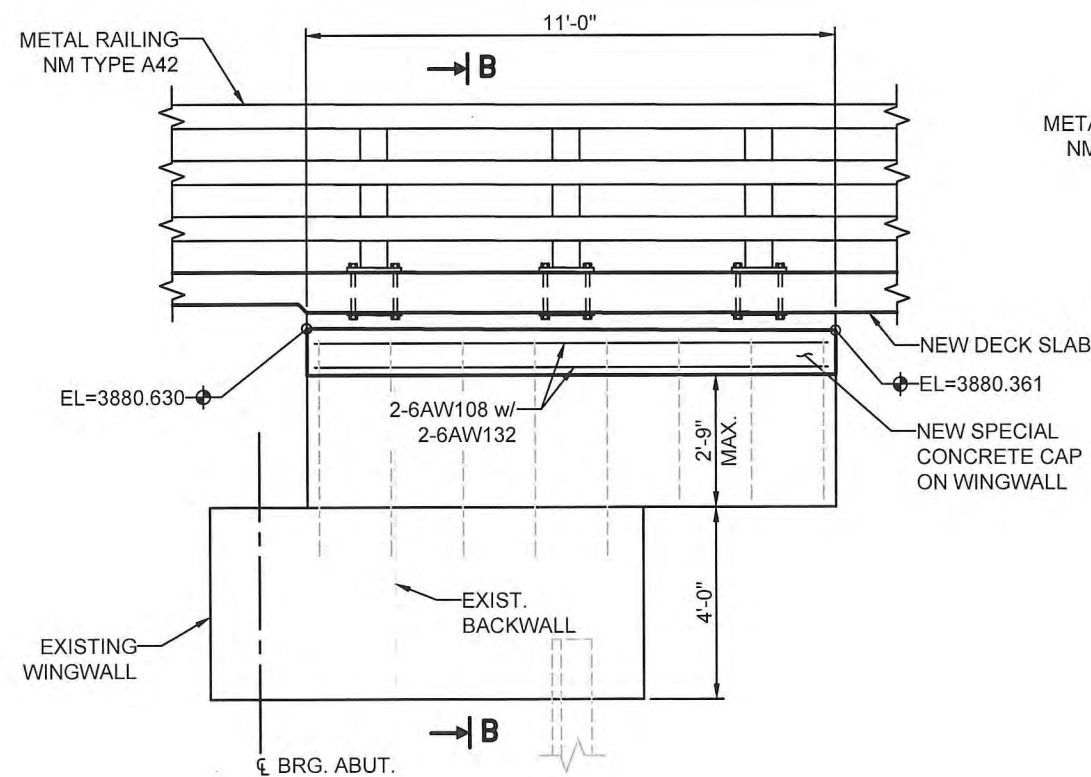
WINGWALL 2R ELEVATION
EXISTING



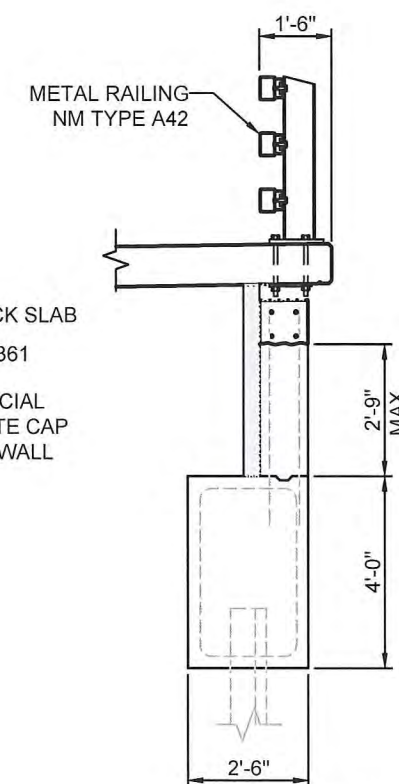
SECTION A-A
EXISTING



DETAIL 1
APPROACH SLAB 2 RT. EDGE



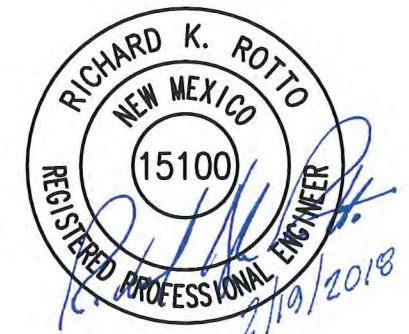
WINGWALL 2R ELEVATION
NEW



SECTION B-B
NEW

NOTES:

1. REMOVE EXISTING METAL RAILING.
2. REMOVE TOP OF WINGWALLS, TOP OF ABUTMENT BACKWALLS AND APPROACH SLABS AS PER DETAILS SHOWN. DELINEATE LIMITS OF CONCRETE REMOVAL WITH 3/4" SAW CUT BEFORE REMOVAL.
3. PRESERVE, STRAIGHTEN, AND CLEAN EXISTING VERTICAL REINFORCEMENT FOR REUSE IN CONCRETE CAPS ON WINGWALLS AND ABUTMENT BACKWALL.
4. COSTS FOR REMOVAL OF EXISTING METAL BARRIER RAILING, ABUTMENT BACKWALLS AND WINGWALLS SHALL BE INCLUDED IN THE PAYMENT FOR "ITEM No. 601000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS" AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR.



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

WINGWALL 2R
MODIFICATIONS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018

STA. 840+48.62

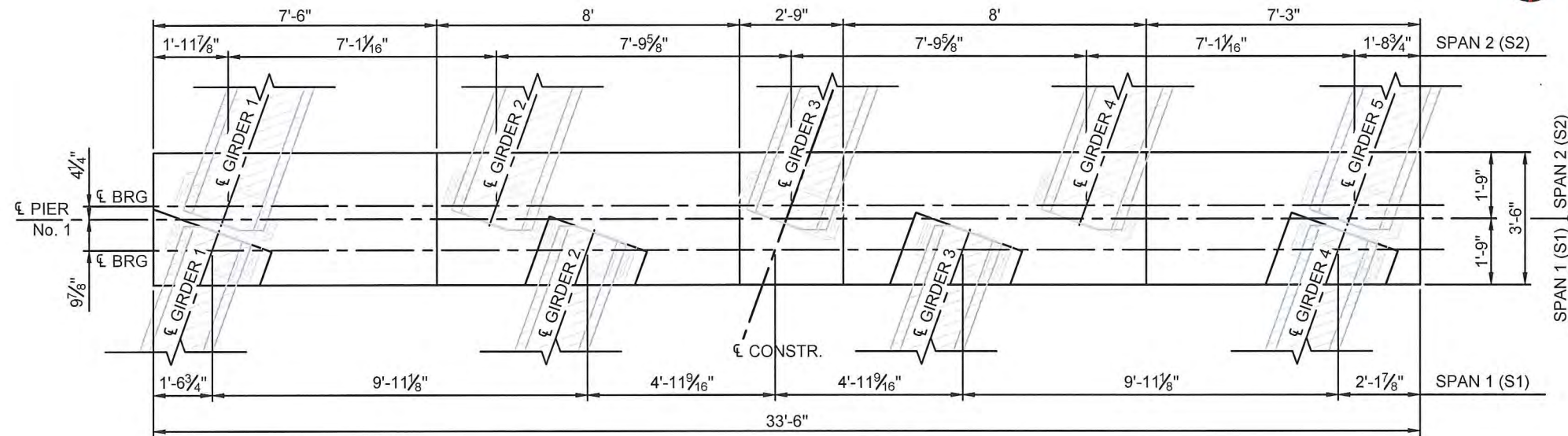
SHEET NO. 5-18



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-19



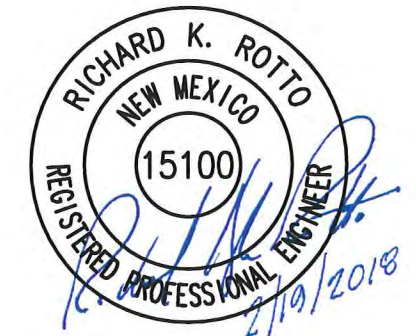
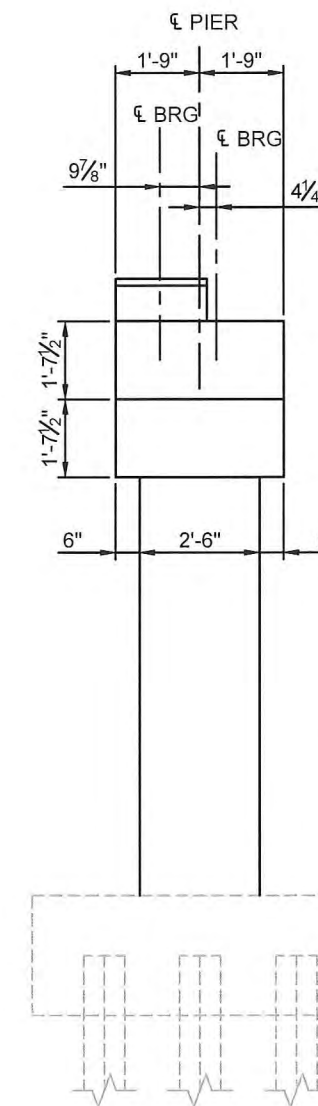
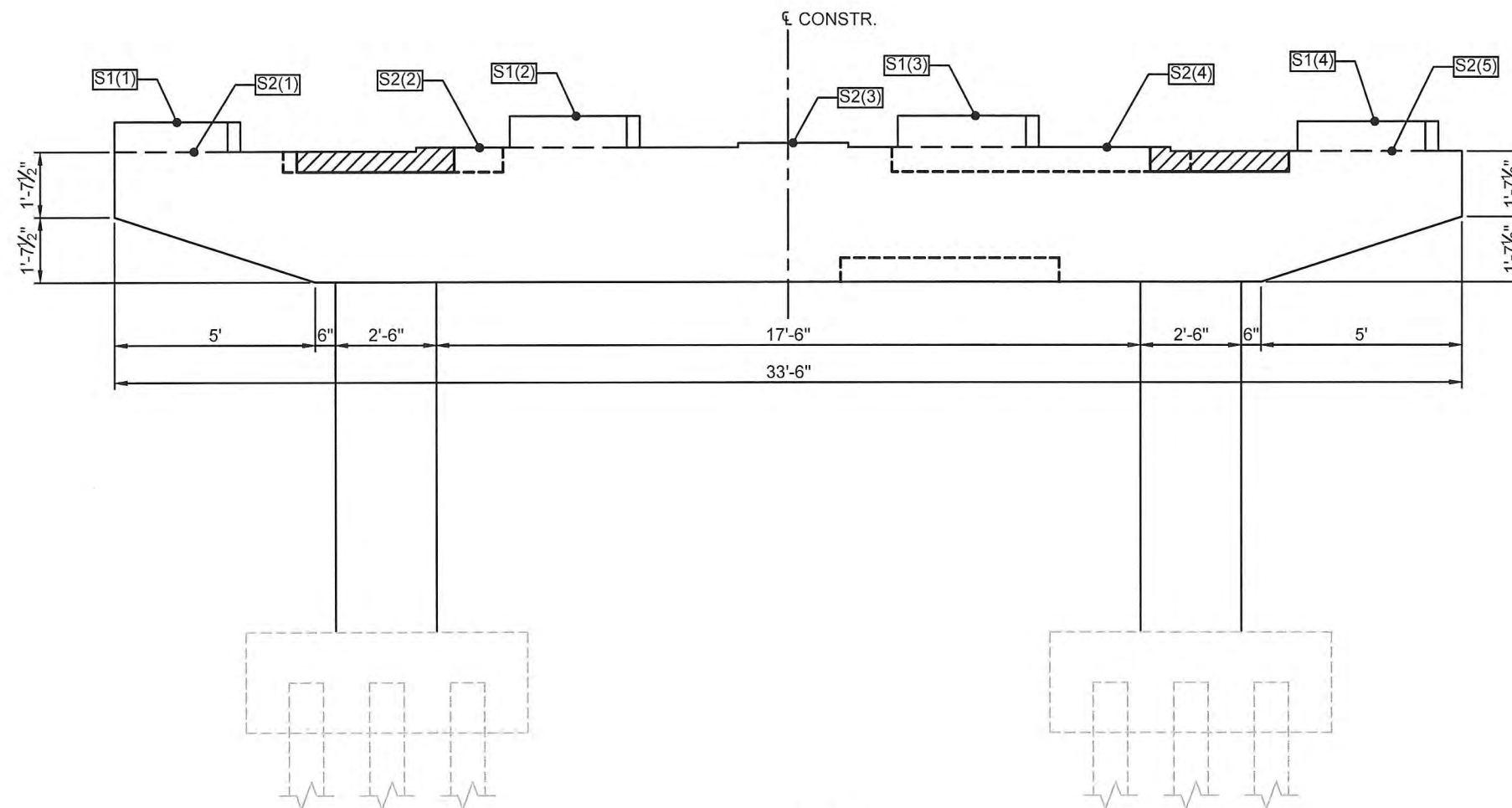
PIER No. 1 GIRDER SEAT ELEV. TABLE

PIER No. 1 SPAN 1		PIER No. 1 SPAN 2	
S1(1)	3879.750	S2(1)	3878.993
S1(2)	3879.888	S2(2)	3879.087
S1(3)	3879.885	S2(3)	3879.187
S1(4)	3879.757	S2(4)	3879.100
		S2(5)	3879.010

NOTE:
ELEVATIONS ARE AT INTERSECTION
OF GIRDERS AND BEARING

LEGEND

- CONCRETE REPAIR, PER SECTION 533 FOR UNSOUND CONCRETE
- CONCRETE REPAIR, FAR SIDE, PER SECTION 533 FOR UNSOUND CONCRETE



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

PIER No. 1
DETAILS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

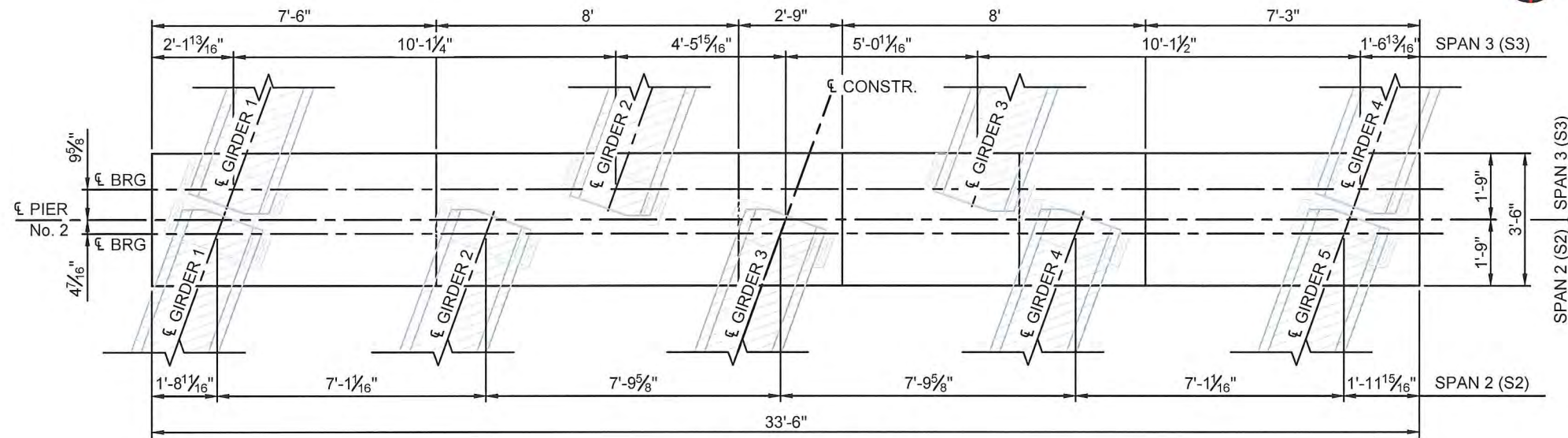
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-20



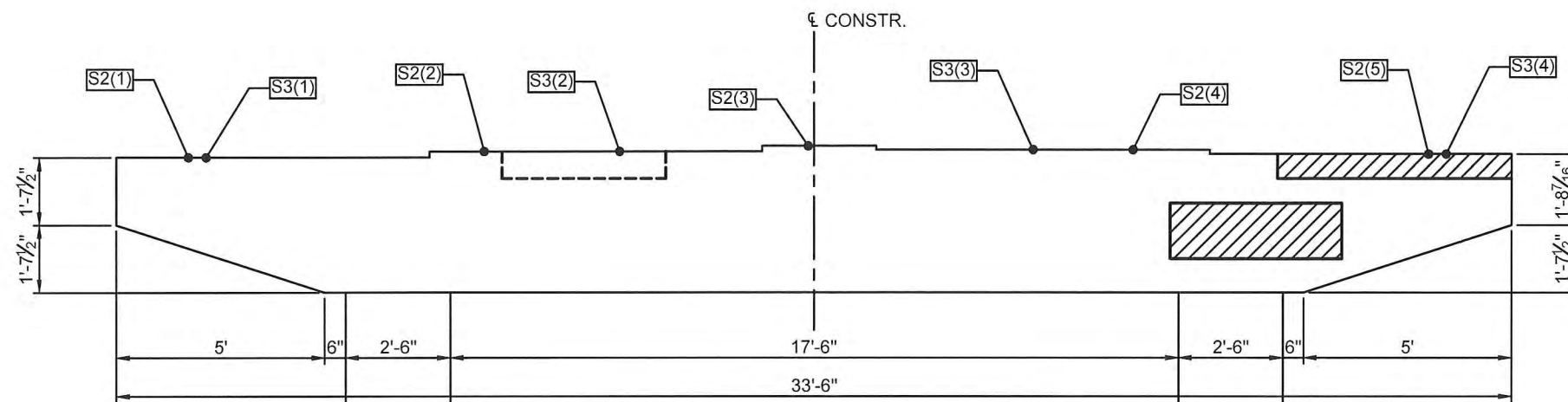
PIER No. 2 GIRDER SEAT ELEV. TABLE

PIER No. 2 SPAN 2		PIER No. 2 SPAN 3	
S2(1)	3878.675	S3(1)	3878.690
S2(2)	3878.785	S3(2)	3878.800
S2(3)	3878.855	S3(3)	3878.735
S2(4)	3878.715	S3(4)	3878.600
S2(5)	3878.585		

NOTE:
ELEVATIONS ARE AT INTERSECTION
OF ϵ GIRDER AND ϵ BEARING

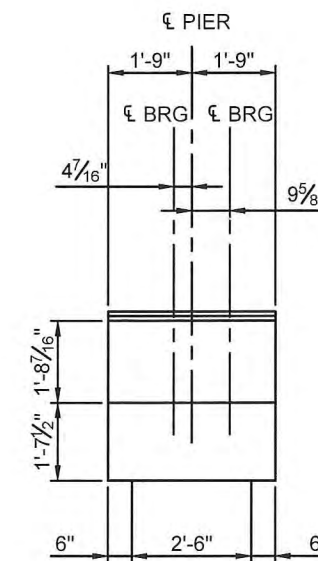
LEGEND

- CONCRETE REPAIR, PER SECTION 533 FOR UNSOUND CONCRETE
- CONCRETE REPAIR, FAR SIDE, PER SECTION 533 FOR UNSOUND CONCRETE



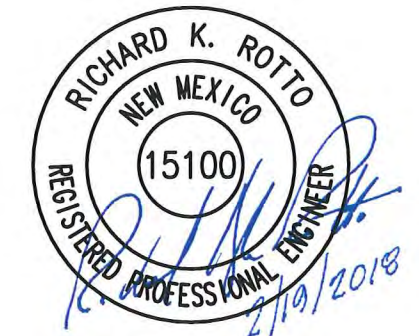
ELEVATION

LOOKING SOUTH (UP STATION)



END VIEW

(LOOKING EAST)



BRIDGE REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

PIER No. 2
DETAILS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

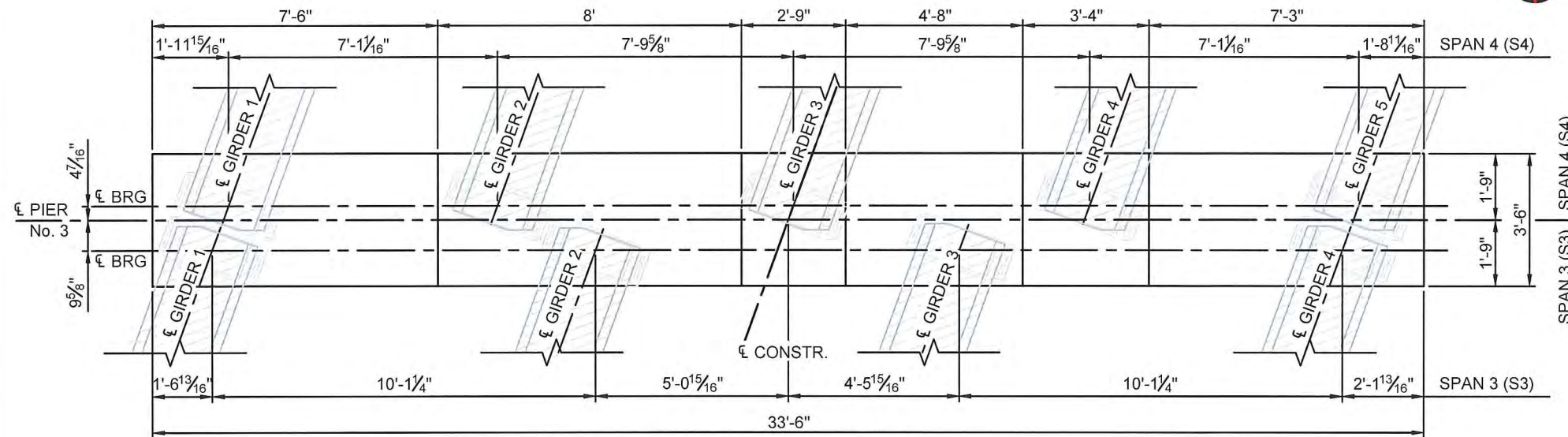
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-21



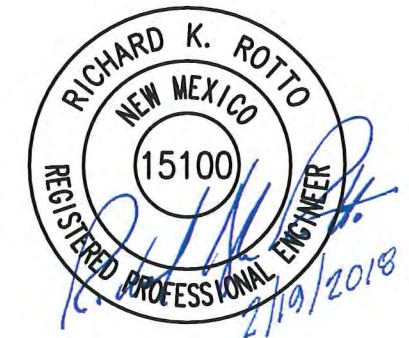
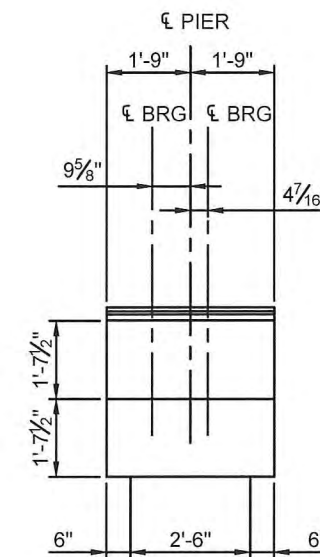
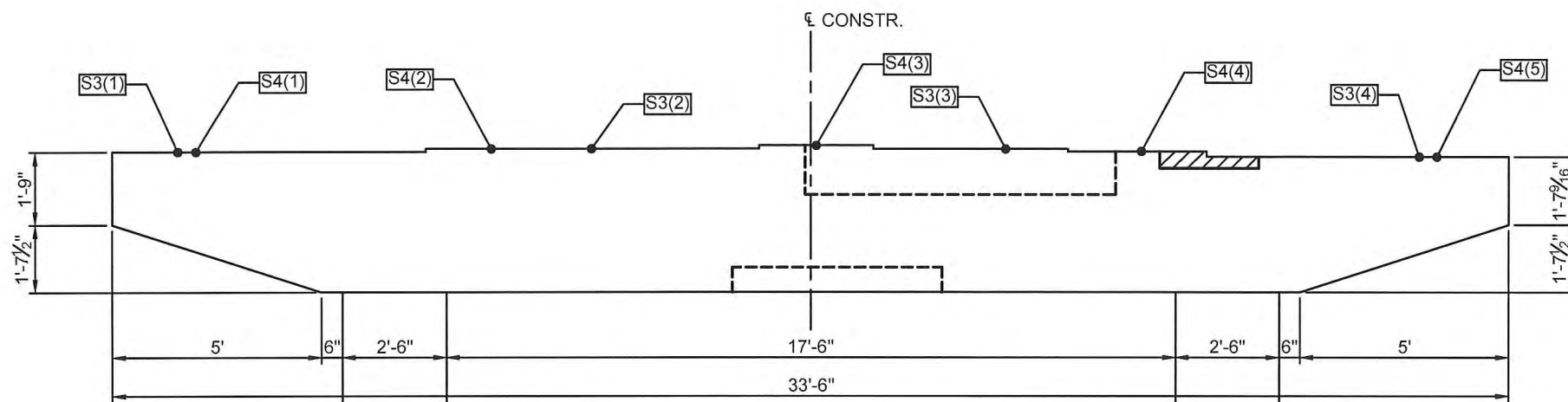
PIER No. 3 GIRDER SEAT ELEV. TABLE

PIER No. 3 SPAN 3		PIER No. 3 SPAN 4	
S3(1)	3878.210	S4(1)	3878.210
S3(2)	3878.280	S4(2)	3878.285
S3(3)	3878.270	S4(3)	3878.330
S3(4)	3878.073	S4(4)	3878.215
		S4(5)	3878.097

NOTE:
ELEVATIONS ARE AT INTERSECTION
OF ϵ GIRDER AND ϵ BEARING

LEGEND

- CONCRETE REPAIR, PER SECTION 533 FOR UNSOUND CONCRETE
- CONCRETE REPAIR, FAR SIDE, PER SECTION 533 FOR UNSOUND CONCRETE



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

PIER No. 3
DETAILS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: *Kimberly Coleman*

DATE: 2/20/2018

STA. 840+48.62

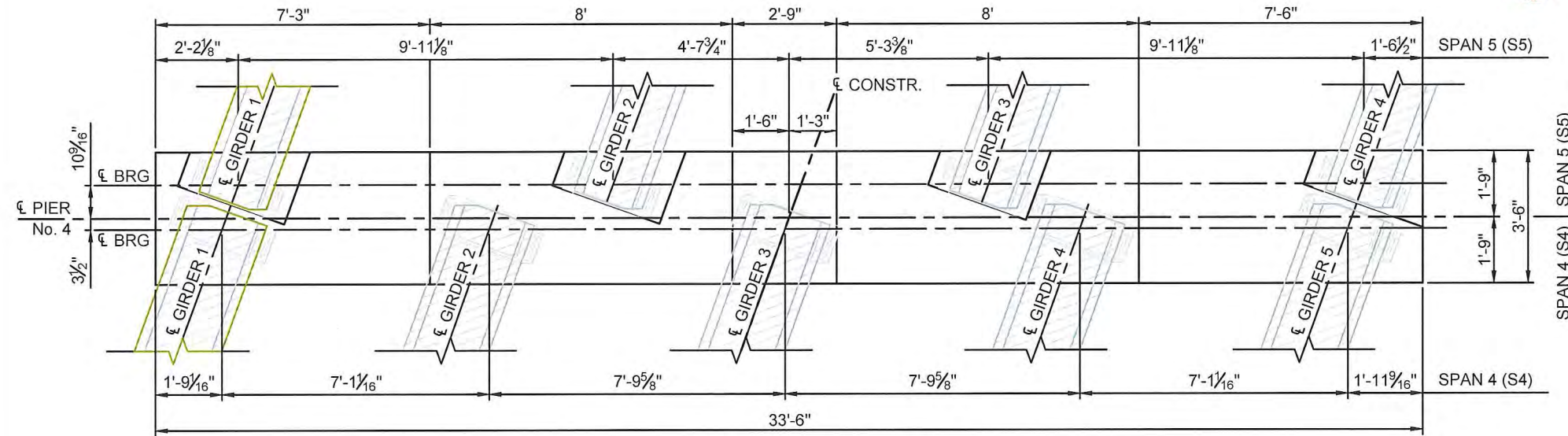
SHEET NO. 5-21



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-22



PIER No. 4 GIRDER SEAT ELEV. TABLE

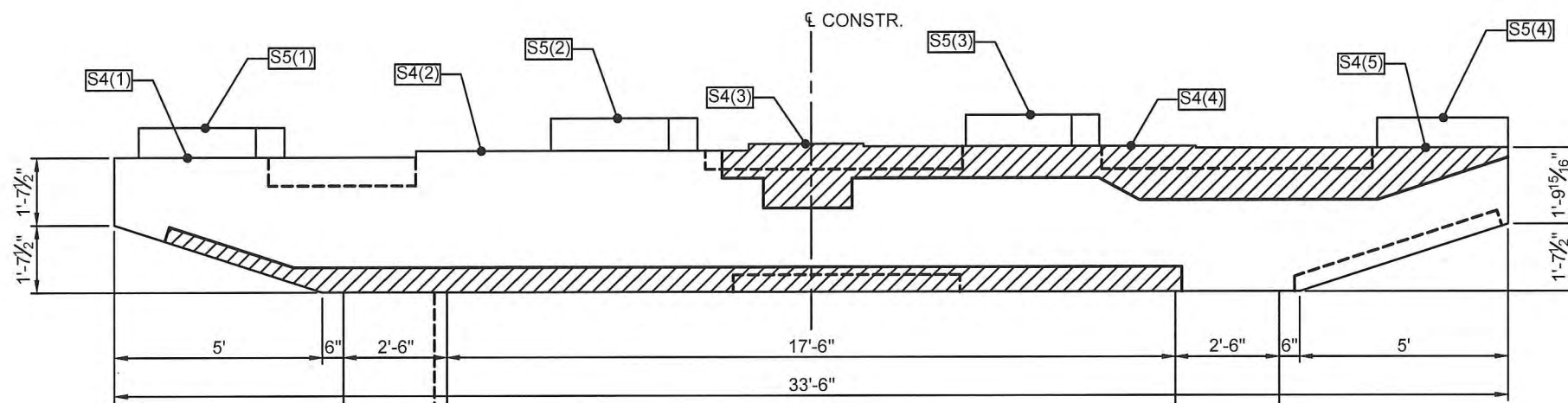
PIER No. 4 SPAN 4		PIER No. 4 SPAN 5	
S4(1)	3876.697	S5(1)	3877.487
S4(2)	3876.780	S5(2)	3877.540
S4(3)	3876.825	S5(3)	3877.510
S4(4)	3876.670	S5(4)	3877.263
S4(5)	3876.510		

NOTE:
ELEVATIONS ARE AT INTERSECTION
OF ϵ GIRDER AND ϵ BEARING

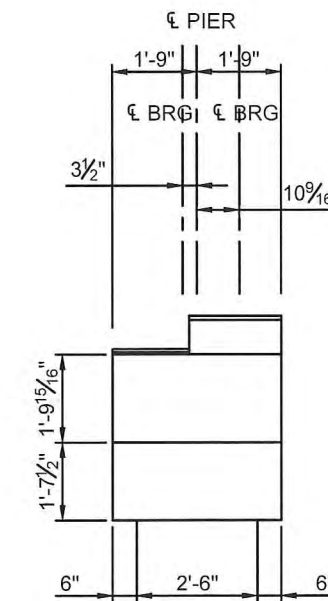


LEGEND

- CONCRETE REPAIR, PER SECTION 533 FOR UNSOUND CONCRETE
- CONCRETE REPAIR, FAR SIDE, PER SECTION 533 FOR UNSOUND CONCRETE



ELEVATION
LOOKING SOUTH (UP STATION)



END VIEW
(LOOKING EAST)



BRIDGE REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

PIER No. 4
DETAILS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: *Kimberly Coleman* DATE: 2/20/2018



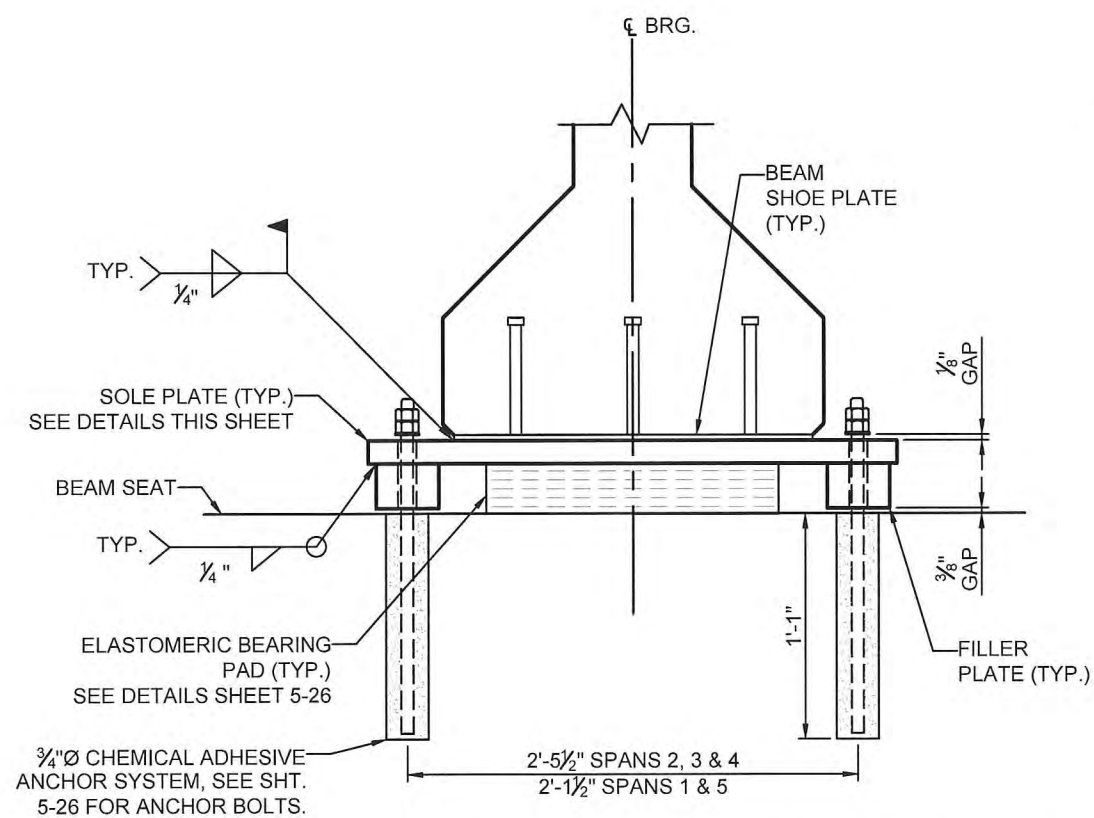
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-23

BRIDGE No. 7345 SOLE PLATE SCHEDULE (TYPE A)

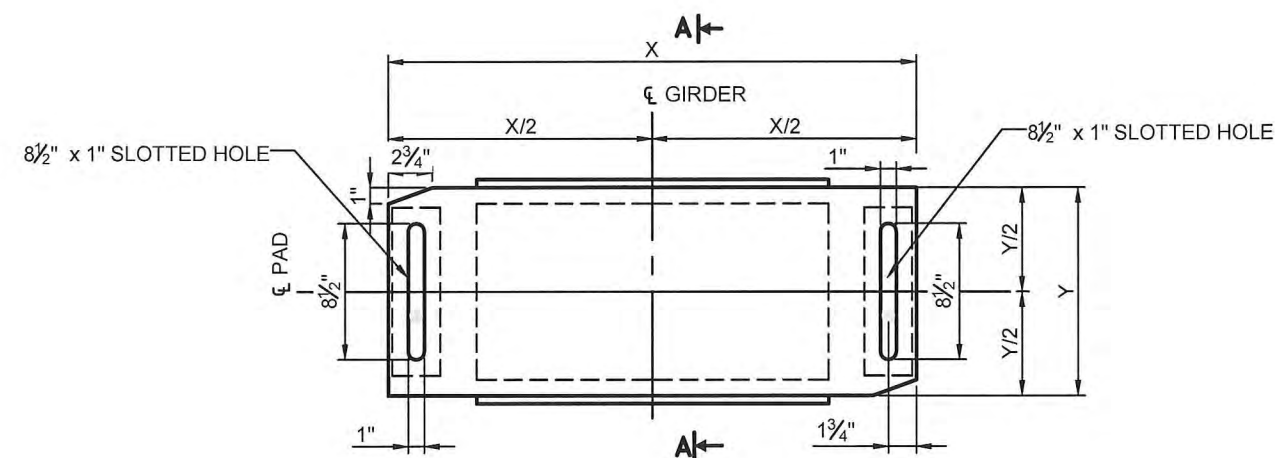
LOCATION	X (IN.)	Y (IN.)	GIRDER 1			GIRDER 2			GIRDER 3			GIRDER 4			GIRDER 5		
			TDN (IN.)	TCL (IN.)	TUP (IN.)	TDN (IN.)	TCL (IN.)	TUP (IN.)	TDN (IN.)	TCL (IN.)	TUP (IN.)	TDN (IN.)	TCL (IN.)	TUP (IN.)	TDN (IN.)	TCL (IN.)	TUP (IN.)
ABUTMENT No. 1	29	13	1.478	1.500	1.522	1.481	1.500	1.519									
PIER No. 1 - SPAN 1	29	13	1.478	1.500	1.522	1.481	1.500	1.519									
PIER No. 1 - SPAN 2	33	13	1.522	1.500	1.478	1.521	1.500	1.479	1.523	1.500	1.477						
PIER No. 2 - SPAN 2	33	13	1.522	1.500	1.478	1.521	1.500	1.479	1.523	1.500	1.477						
PIER No. 2 - SPAN 3	33	13	1.568	1.500	1.432	1.574	1.500	1.426									
PIER No. 3 - SPAN 3	33	13	1.568	1.500	1.432	1.574	1.500	1.426									
PIER No. 3 - SPAN 4	33	13	1.606	1.500	1.394	1.606	1.500	1.394	1.606	1.500	1.394						
PIER No. 4 - SPAN 4	33	13	1.606	1.500	1.394	1.606	1.500	1.394	1.606	1.500	1.394						
PIER No. 4 - SPAN 5	29	13	1.635	1.500	1.365	1.633	1.500	1.367									
ABUTMENT No. 2	29	13	1.635	1.500	1.365	1.633	1.500	1.367									



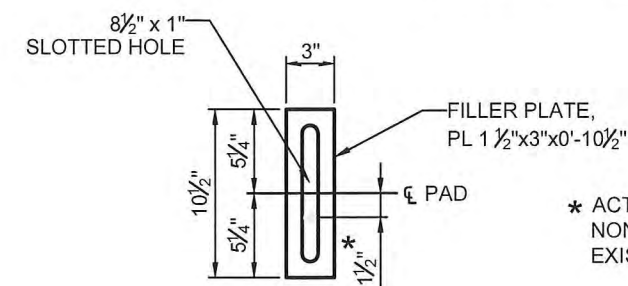
SUPERSTRUCTURE DEPTH DETAIL AT CL BEARING

NOTES:

- LOCATE AND MARK EXISTING ABUTMENT AND PIER CAP REINFORCING BY APPROVED SCIENTIFIC NON-DESTRUCTIVE TESTING. ESTABLISH AND MARK PROPOSED ANCHOR BOLT LOCATIONS PRIOR TO PREPARATION OF THE WORKING DRAWINGS FOR THE FABRICATION OF THE BEARING ASSEMBLIES AND PRIOR TO REMOVAL OF THE EXISTING BEARINGS. VERIFY ANCHOR BOLT LOCATIONS WILL NOT FOUL WITH EXISTING REINFORCEMENT. SUBMIT BEARING ASSEMBLY WORKING DRAWINGS DENOTING PROPOSED MODIFICATION TO AVOID DAMAGING CAP REINFORCEMENT.
- GRIND AND FILL TOP OF BEAM SEATS. SMOOTH AND LEVEL SURFACE FOR BEARING PER REQUIREMENTS OF SECTION 521 OF THE STANDARD SPECIFICATIONS.
- BEFORE REMOVING EXISTING SOLE PLATES AND BEARING PADS, THE CONTRACTOR SHALL SUBMIT FIELD MEASUREMENTS OF EACH OF THE EXISTING BEARINGS AND BEAM SEAT ELEVATIONS TO THE BRIDGE BUREAU FOR REVIEW PRIOR TO FABRICATION OF THE BEARING DEVICES.
- NON-DESTRUCTIVE TESTING, WORKING DRAWINGS, GRINDING, FILLING, AND INSTALLATION OF ANCHOR BOLTS SHALL BE INCLUDED IN "ITEM No. 529000 - PIER AND ABUTMENT BEARING MODIFICATIONS" AND NO SEPARATE PAYMENT WILL BE MADE THERE OF.

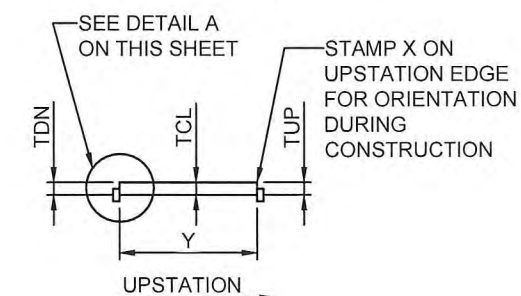


SOLE PLATE PLAN



DETAIL A SOLE PLATE

* ACTUAL DIMENSION DETERMINED BY NON-DESTRUCTIVE TESTING TO AVOID EXISTING REINFORCEMENT



SECTION A-A SOLE PLATE SECTION



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

BEARING DETAILS
TYPE A

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



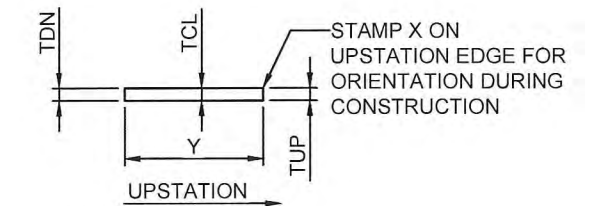
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

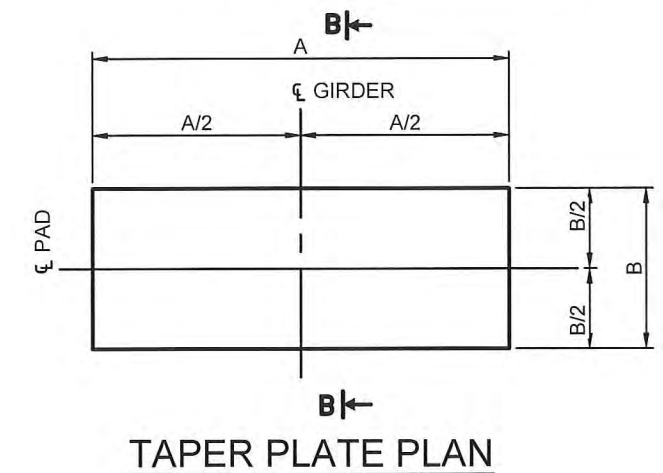
SHEET No.
5-24

BRIDGE No. 7345 SOLE PLATE SCHEDULE (TYPE B)				
LOCATION	X (IN.)	Y (IN.)	GIRDER 3	GIRDER 4
			THICKNESS (IN.)	THICKNESS (IN.)
ABUTMENT No. 1	29	13	1.500	
PIER No. 1 - SPAN 1	29	13	1.500	
PIER No. 1 - SPAN 2	33	13		1.500
PIER No. 2 - SPAN 2	33	13		1.500
PIER No. 2 - SPAN 3	33	13	1.500	
PIER No. 3 - SPAN 3	33	13	1.500	
PIER No. 3 - SPAN 4	33	13		1.500
PIER No. 4 - SPAN 4	33	13		1.500
PIER No. 4 - SPAN 5	29	13	1.500	
ABUTMENT No. 2	29	13	1.500	

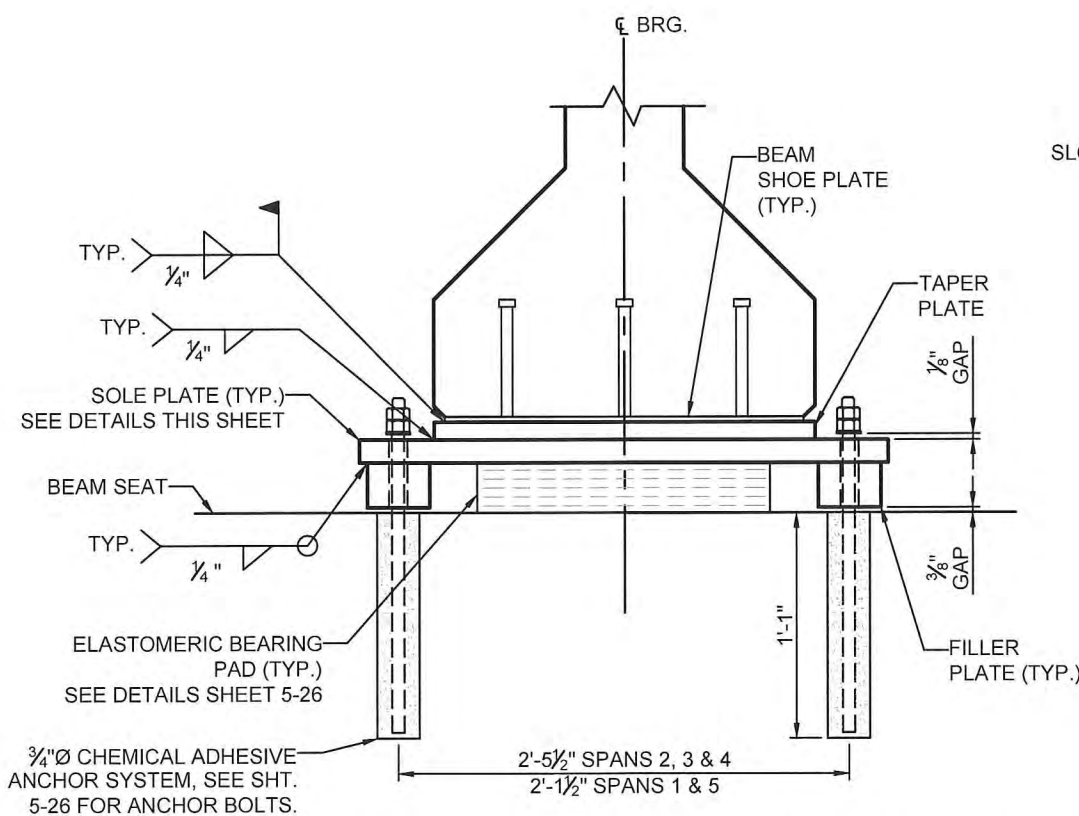
BRIDGE No. 7345 TAPER PLATE SCHEDULE (TYPE B)								
LOCATION	A (IN.)	B (IN.)	GIRDER 3			GIRDER 4		
			TDN (IN.)	TCL (IN.)	TUP (IN.)	TDN (IN.)	TCL (IN.)	TUP (IN.)
ABUTMENT No. 1	22	10	1.673	1.688	1.703			
PIER No. 1 - SPAN 1	22	10	1.673	1.688	1.703			
PIER No. 1 - SPAN 2	26	10				2.646	2.625	2.604
PIER No. 2 - SPAN 2	26	10				2.646	2.625	2.604
PIER No. 2 - SPAN 3	26	10	1.676	1.625	1.574			
PIER No. 3 - SPAN 3	26	10	1.676	1.625	1.574			
PIER No. 3 - SPAN 4	26	10				2.709	2.625	2.541
PIER No. 4 - SPAN 4	26	10				2.709	2.625	2.541
PIER No. 4 - SPAN 5	22	10	1.798	1.688	1.578			
ABUTMENT No. 2	22	10	1.798	1.688	1.578			



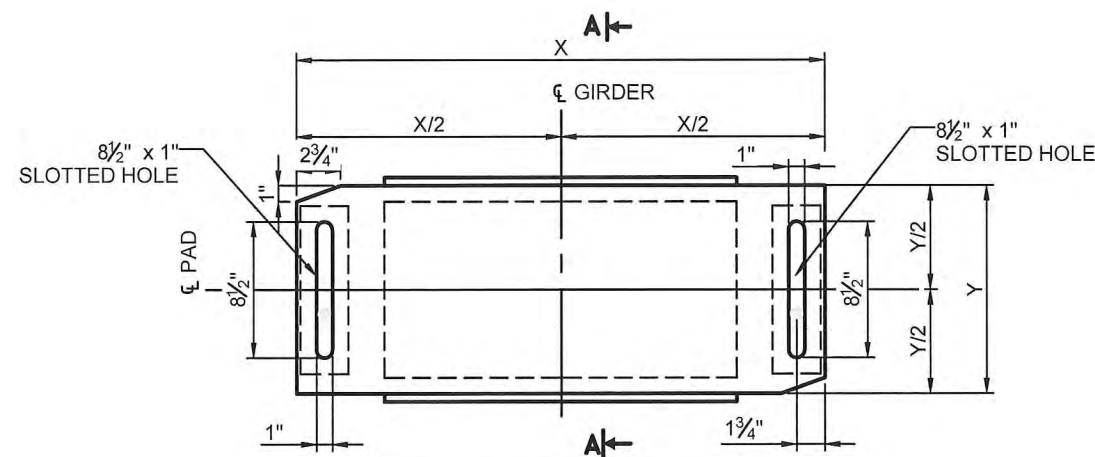
SECTION B-B
TAPER PLATE SECTION



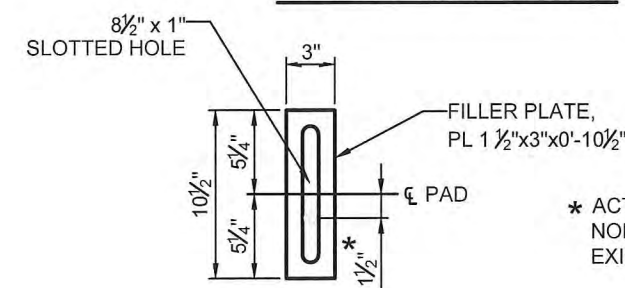
TAPER PLATE PLAN



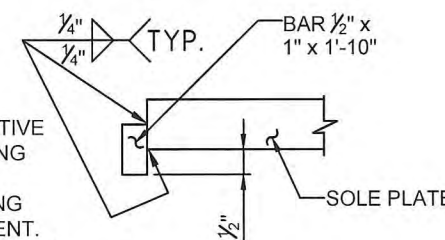
SUPERSTRUCTURE DEPTH DETAIL AT G BEARING



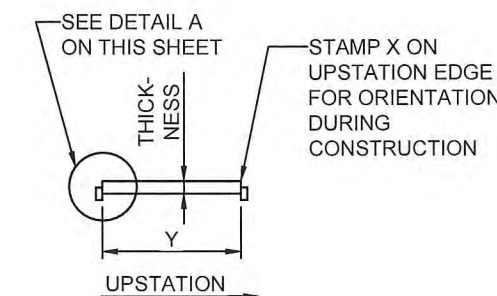
SOLE PLATE PLAN



* ACTUAL DIMENSION DETERMINED BY NON-DESTRUCTIVE TESTING TO AVOID EXISTING REINFORCEMENT



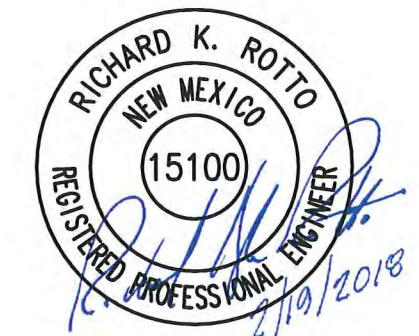
DETAIL A
SOLE PLATE



SECTION A-A
SOLE PLATE SECTION

NOTES:

- LOCATE AND MARK EXISTING ABUTMENT AND PIER CAP REINFORCING BY APPROVED SCIENTIFIC NON-DESTRUCTIVE TESTING. ESTABLISH AND MARK PROPOSED ANCHOR BOLT LOCATIONS PRIOR TO PREPARATION OF THE WORKING DRAWINGS FOR THE FABRICATION OF THE BEARING ASSEMBLIES AND PRIOR TO REMOVAL OF THE EXISTING BEARINGS. VERIFY ANCHOR BOLT LOCATIONS WILL NOT FOUL WITH EXISTING REINFORCEMENT. SUBMIT BEARING ASSEMBLY WORKING DRAWINGS DENOTING PROPOSED MODIFICATION TO AVOID DAMAGING CAP REINFORCEMENT.
- GRIND AND FILL TOP OF BEAM SEATS. SMOOTH AND LEVEL SURFACE FOR BEARING PER REQUIREMENTS OF SECTION 521 OF THE STANDARD SPECIFICATIONS. NON-SHRINK MORTAR SHALL BE SELECTED FROM DEPARTMENT'S APPROVED PRODUCTS LIST.
- BEFORE REMOVING EXISTING SOLE PLATES AND BEARING PADS, THE CONTRACTOR SHALL SUBMIT FIELD MEASUREMENTS OF EACH OF THE EXISTING BEARINGS AND BEAM SEAT ELEVATIONS TO THE BRIDGE BUREAU FOR REVIEW PRIOR TO FABRICATION OF THE BEARING DEVICES.
- COST FOR NON-DESTRUCTIVE TESTING, WORKING DRAWINGS, GRINDING, FILLING, AND INSTALLATION OF ANCHOR BOLTS SHALL BE INCLUDED IN "ITEM 529000- PIER AND ABUTMENT BEARING MODIFICATIONS"



DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018

BRIDGE: REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

BEARING DETAILS
TYPE B

STA. 840+48.62 SHEET NO. 5-24



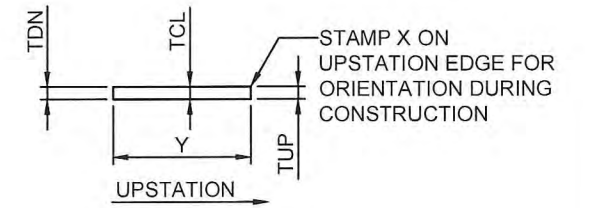
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

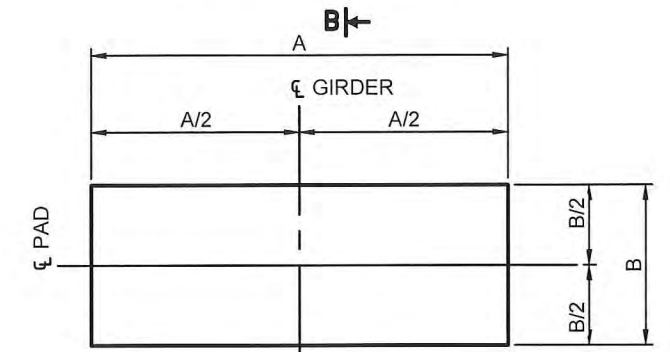
SHEET No.
5-25

BRIDGE No. 7345 SOLE PLATE SCHEDULE (TYPE C)				
LOCATION	X (IN.)	Y (IN.)	GIRDER 4	GIRDER 5
			THICKNESS (IN.)	THICKNESS (IN.)
ABUTMENT No. 1	29	13	1.500	
PIER No. 1 - SPAN 1	29	13	1.500	
PIER No. 1 - SPAN 2	33	13		1.500
PIER No. 2 - SPAN 2	33	13		1.500
PIER No. 2 - SPAN 3	33	13	1.500	
PIER No. 3 - SPAN 3	33	13	1.500	
PIER No. 3 - SPAN 4	33	13		1.500
PIER No. 4 - SPAN 4	33	13		1.500
PIER No. 4 - SPAN 5	29	13	1.500	
ABUTMENT No. 2	29	13	1.500	

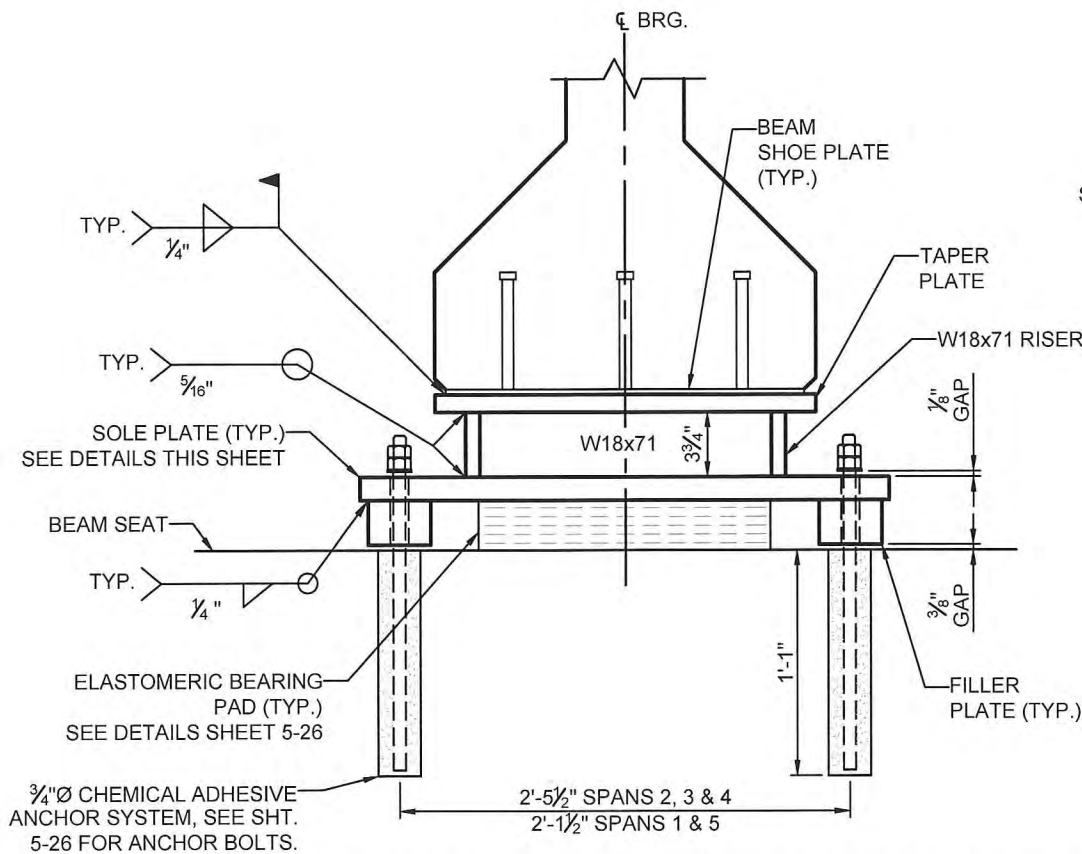
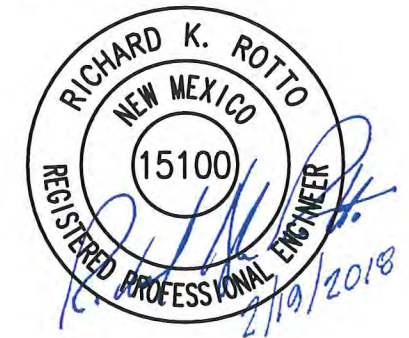
BRIDGE No. 7345 TAPER PLATE SCHEDULE (TYPE C)								
LOCATION	A (IN.)	B (IN.)	GIRDER 4			GIRDER 5		
			TDN (IN.)	TCL (IN.)	TUP (IN.)	TDN (IN.)	TCL (IN.)	TUP (IN.)
ABUTMENT No. 1	22	10	1.239	1.250	1.261			
PIER No. 1 - SPAN 1	22	10	1.239	1.250	1.261			
PIER No. 1 - SPAN 2	26	10				1.273	1.250	1.227
PIER No. 2 - SPAN 2	26	10				1.273	1.250	1.227
PIER No. 2 - SPAN 3	26	10	1.308	1.250	1.192			
PIER No. 3 - SPAN 3	26	10	1.308	1.250	1.192			
PIER No. 3 - SPAN 4	26	10				1.336	1.250	1.164
PIER No. 4 - SPAN 4	26	10				1.336	1.250	1.164
PIER No. 4 - SPAN 5	22	10	1.356	1.250	1.144			
ABUTMENT No. 2	22	10	1.356	1.250	1.144			



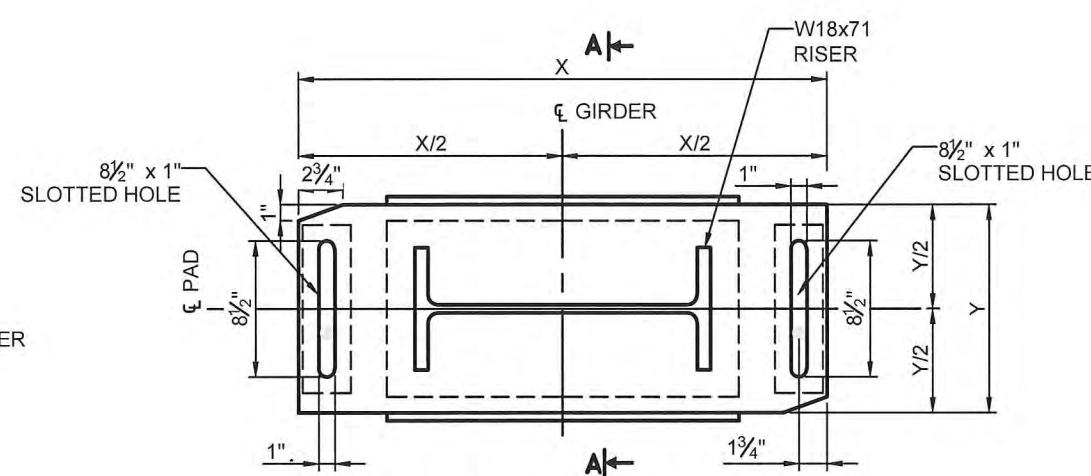
SECTION B-B
TAPER PLATE SECTION



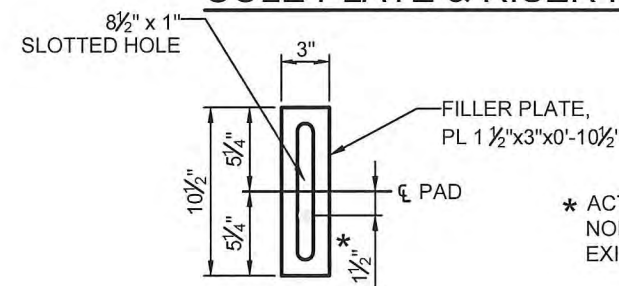
TAPER PLATE PLAN



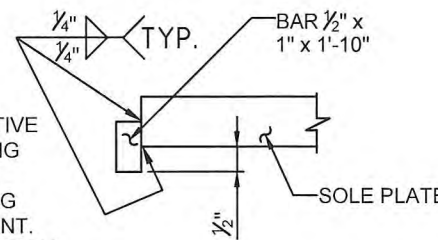
SUPERSTRUCTURE DEPTH DETAIL AT BEARING



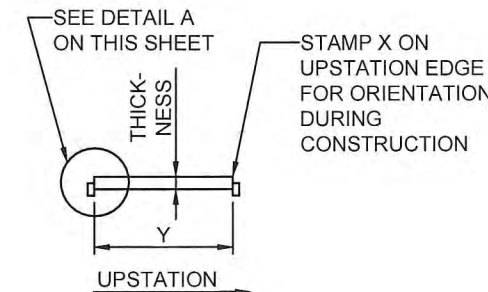
SOLE PLATE & RISER PLAN



* ACTUAL DIMENSION DETERMINED BY NON-DESTRUCTIVE TESTING TO AVOID EXISTING REINFORCEMENT



DETAIL A
SOLE PLATE



SECTION A-A
SOLE PLATE SECTION

NOTES:

- LOCATE AND MARK EXISTING ABUTMENT AND PIER CAP REINFORCING BY APPROVED SCIENTIFIC NON-DESTRUCTIVE TESTING. ESTABLISH AND MARK PROPOSED ANCHOR BOLT LOCATIONS PRIOR TO PREPARATION OF THE WORKING DRAWINGS FOR THE FABRICATION OF THE BEARING ASSEMBLIES AND PRIOR TO REMOVAL OF THE EXISTING BEARINGS. VERIFY ANCHOR BOLT LOCATIONS WILL NOT FOUL WITH EXISTING REINFORCEMENT. SUBMIT BEARING ASSEMBLY WORKING DRAWINGS DENOTING PROPOSED MODIFICATION TO AVOID DAMAGING CAP REINFORCEMENT.
- GRIND AND FILL TOP OF BEAM SEATS. SMOOTH AND LEVEL SURFACE FOR BEARING PER REQUIREMENTS OF SECTION 521 OF THE STANDARD SPECIFICATIONS. NON-SHRINK MORTAR SHALL BE SELECTED FROM DEPARTMENT'S APPROVED PRODUCTS LIST.
- BEFORE REMOVING EXISTING SOLE PLATES AND BEARING PADS, THE CONTRACTOR SHALL SUBMIT FIELD MEASUREMENTS OF EACH OF THE EXISTING BEARINGS AND BEAM SEAT ELEVATIONS TO THE BRIDGE BUREAU FOR REVIEW PRIOR TO FABRICATION OF THE BEARING DEVICES.
- COST FOR NON-DESTRUCTIVE TESTING, WORKING DRAWINGS, GRINDING, FILLING, AND INSTALLATION OF ANCHOR BOLTS SHALL BE INCLUDED IN "ITEM 529000- PIER AND ABUTMENT BEARING MODIFICATIONS"

BRIDGE-			
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

BEARING DETAILS
TYPE C

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

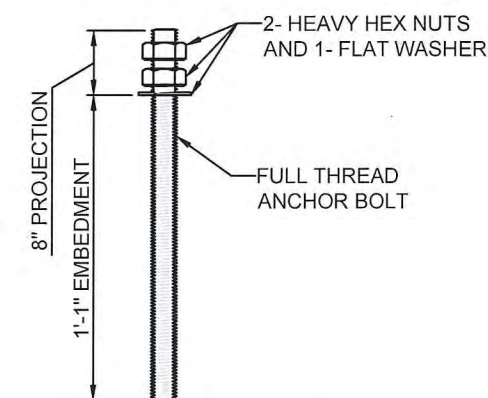
SHEET No.
5-26

BRIDGE No. 7345 BEARING SEAT ELEVATIONS

LOCATION	DESCRIPTION	1	2	3	4	5
ABUT No. 1 SPAN 1	DECK ELEVATION (FT)	3884.536	3884.691	3884.846	3884.999	
	DECK THICKNESS (IN)	8.000	8.000	8.000	8.000	
	HAUNCH (IN)	1.602	1.546	1.777	1.337	
	GIRDER (IN)	45.000	45.000	45.000	45.000	
	SOLE PLATE (IN)	1.500	1.500	1.500	1.500	
	BEARING PAD (IN)	3.250	3.250	3.250	3.250	
	RISE DUE TO CROSS SLOPE (IN)	0.000	0.000	1.680	5.040	
	SEAT ELEVATION (FT)	3879.590	3879.750	3879.745	3879.655	
PIER No. 1 SPAN 1	DECK ELEVATION (FT)	3884.661	3884.802	3884.943	3885.082	
	DECK THICKNESS (IN)	8.000	8.000	8.000	8.000	
	HAUNCH (IN)	1.177	1.224	1.260	1.114	
	GIRDER (IN)	45.000	45.000	45.000	45.000	
	SOLE PLATE (IN)	1.500	1.500	1.500	1.500	
	BEARING PAD (IN)	3.250	3.250	3.250	3.250	
	RISE DUE TO CROSS SLOPE (IN)	0.000	0.000	1.680	5.040	
	SEAT ELEVATION (FT)	3879.750	3879.888	3879.885	3879.757	
PIER No. 1 SPAN 2	DECK ELEVATION (FT)	3884.661	3884.762	3884.873	3884.982	3885.082
	DECK THICKNESS (IN)	8.000	8.000	8.000	8.000	8.000
	HAUNCH (IN)	1.265	1.355	1.480	1.198	1.069
	GIRDER (IN)	54.000	54.000	54.000	54.000	54.000
	SOLE PLATE (IN)	1.500	1.500	1.500	1.500	1.500
	BEARING PAD (IN)	3.250	3.250	3.250	3.250	3.250
	RISE DUE TO CROSS SLOPE (IN)	0.000	0.000	0.000	2.640	5.040
	SEAT ELEVATION (FT)	3878.993	3879.087	3879.187	3879.100	3879.010
PIER No. 2 SPAN 2	DECK ELEVATION (FT)	3884.338	3884.419	3884.509	3884.597	3884.677
	DECK THICKNESS (IN)	8.000	8.000	8.000	8.000	8.000
	HAUNCH (IN)	1.201	0.862	1.093	1.196	1.318
	GIRDER (IN)	54.000	54.000	54.000	54.000	54.000
	SOLE PLATE (IN)	1.500	1.500	1.500	1.500	1.500
	BEARING PAD (IN)	3.250	3.250	3.250	3.250	3.250
	RISE DUE TO CROSS SLOPE (IN)	0.000	0.000	0.000	2.640	5.040
	SEAT ELEVATION (FT)	3878.675	3878.785	3878.855	3878.715	3878.585
PIER No. 2 SPAN 3	DECK ELEVATION (FT)	3884.328	3884.445	3884.552	3884.667	
	DECK THICKNESS (IN)	8.000	8.000	8.000	8.000	
	HAUNCH (IN)	0.908	0.984	1.439	1.012	
	GIRDER (IN)	54.000	54.000	54.000	54.000	
	SOLE PLATE (IN)	1.500	1.500	1.500	1.500	
	BEARING PAD (IN)	3.250	3.250	3.250	3.250	
	RISE DUE TO CROSS SLOPE (IN)	0.000	0.000	1.620	5.040	
	SEAT ELEVATION (FT)	3878.690	3878.800	3878.735	3878.600	
PIER No. 3 SPAN 3	DECK ELEVATION (FT)	3883.893	3883.996	3884.091	3884.192	
	DECK THICKNESS (IN)	8.000	8.000	8.000	8.000	
	HAUNCH (IN)	1.448	1.845	1.481	1.635	
	GIRDER (IN)	54.000	54.000	54.000	54.000	
	SOLE PLATE (IN)	1.500	1.500	1.500	1.500	
	BEARING PAD (IN)	3.250	3.250	3.250	3.250	
	RISE DUE TO CROSS SLOPE (IN)	0.000	0.000	1.620	5.040	
	SEAT ELEVATION (FT)	3878.210	3878.280	3878.270	3878.073	
PIER No. 3 SPAN 4	DECK ELEVATION (FT)	3883.879	3883.950	3884.029	3884.106	3884.177
	DECK THICKNESS (IN)	8.000	8.000	8.000	8.000	8.000
	HAUNCH (IN)	1.274	1.236	1.635	1.307	1.169
	GIRDER (IN)	54.000	54.000	54.000	54.000	54.000
	SOLE PLATE (IN)	1.500	1.500	1.500	1.500	1.500
	BEARING PAD (IN)	3.250	3.250	3.250	3.250	3.250
	RISE DUE TO CROSS SLOPE (IN)	0.000	0.000	0.000	2.640	5.040
	SEAT ELEVATION (FT)	3878.210	3878.285	3878.330	3878.215	3878.097

BRIDGE No. 7345 BEARING SEAT ELEVATIONS

LOCATION	DESCRIPTION	1	2	3	4	5
PIER No. 4 SPAN 4	DECK ELEVATION (FT)	3882.439	3882.491	3882.548	3882.605	3882.656
	DECK THICKNESS (IN)	8.000	8.000	8.000	8.000	8.000
	HAUNCH (IN)	2.155	1.784	1.932	1.830	1.959
	GIRDER (IN)	54.000	54.000	54.000	54.000	54.000
	SOLE PLATE (IN)	1.500	1.500	1.500	1.500	1.500
	BEARING PAD (IN)	3.250	3.250	3.250	3.250	3.250
	RISE DUE TO CROSS SLOPE (IN)	0.000	0.000	0.000	2.640	5.040
	SEAT ELEVATION (FT)	3876.697	3876.780	3876.825	3876.670	3876.510
PIER No. 4 SPAN 5	DECK ELEVATION (FT)	3882.414	3882.487	3882.559	3882.630	
	DECK THICKNESS (IN)	8.000	8.000	8.000	8.000	
	HAUNCH (IN)	1.381	1.617	1.159	1.622	
	GIRDER (IN)	45.000	45.000	45.000	45.000	
	SOLE PLATE (IN)	1.500	1.500	1.500	1.500	
	BEARING PAD (IN)	3.250	3.250	3.250	3.250	
	RISE DUE TO CROSS SLOPE (IN)	0.000	0.000	1.680	5.040	
	SEAT ELEVATION (FT)	3877.487	3877.540	3877.510	3877.263	
ABUT No. 2 SPAN 5	DECK ELEVATION (FT)	3881.605	3881.667	3881.728	3881.788	
	DECK THICKNESS (IN)	8.000	8.000	8.000	8.000	
	HAUNCH (IN)	1.171	1.135	1.204	1.185	
	GIRDER (IN)	45.000	45.000	45.000	45.000	
	SOLE PLATE (IN)	1.500	1.500	1.500	1.500	
	BEARING PAD (IN)	3.250	3.250	3.250	3.250	
	RISE DUE TO CROSS SLOPE (IN)	0.000	0.000	1.680	5.040	
	SEAT ELEVATION (FT)	3876.695	3876.760	3876.675	3876.457	



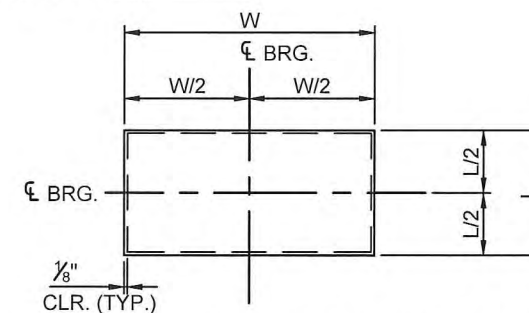
ANCHOR BOLT DETAIL
(88) 3/4" x 1'-11" ANCHOR BOLTS REQ'D.

NOTE:
ANCHOR BOLTS SHALL BE ASTM-F1554 GRADE 55.
ANCHOR BOLTS, NUTS AND WASHERS SHALL BE
MECHANICALLY GALVANIZED.

ELASTOMERIC
BEARING PAD 60
DUROMETER
HARDNESS

10GA. SHEET METAL
SHIMS, EQUALLY SPACED,
ASTM A-36 OR A-1002.
(TYP.) (SEE SCHEDULE
FOR No. REQUIRED)

**SECTION OF ELASTOMERIC
BEARING PAD**



**PLAN VIEW OF ELASTOMERIC
BEARING PAD**

BRIDGE No. 7345 ELASTOMERIC BEARING PAD SCHEDULE

60 DUROMETER - SHEAR MODULUS 130 PSI									
LOCATION	L (IN.)	W (IN.)	No. SHIMS	THICKNESS OF INTERIOR LAM. (IN.)	T (IN.)	DESIGN DL (KIPS)	DESIGN LL (KIPS)	No. REQ'D	MOVEMENT LENGTH (FT)
ABUTMENT No. 1	11	20	4	0.737	3.250	42.98	69.94	4	165.23
PIER No. 1 - SPAN 1	11	20	4	0.737	3.250	42.98	73.05	4	117.73
PIER No. 1 - SPAN 2	11	24	4	0.737	3.250	84.42	94.30	5	116.48
PIER No. 2 - SPAN 2	11	24	4	0.737	3.250	84.42	94.30	5	24.06
PIER No. 2 - SPAN 3	11	24	4	0.737	3.250	47.50	71.82	4	22.81
PIER No. 3 - SPAN 3	11	24	4	0.737	3.250	47.50	71.82	4	22.77
PIER No. 3 - SPAN 4	11	24	4	0.737	3.250	84.41	94.30	5	24.02
PIER No. 4 - SPAN 4	11	24	4	0.737	3.250	84.41	94.30	5	116.43
PIER No. 4 - SPAN 5	11	20	4	0.737	3.250	34.53	66.47	4	117.67
ABUTMENT No. 2	11	20	4	0.737	3.250	34.53	63.42	4	155.67



DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

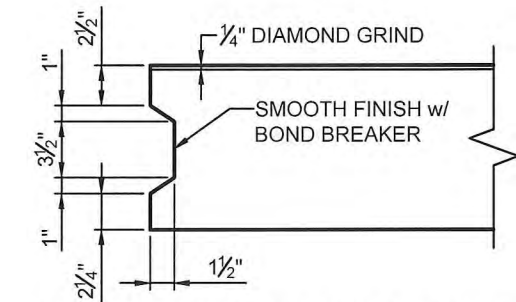
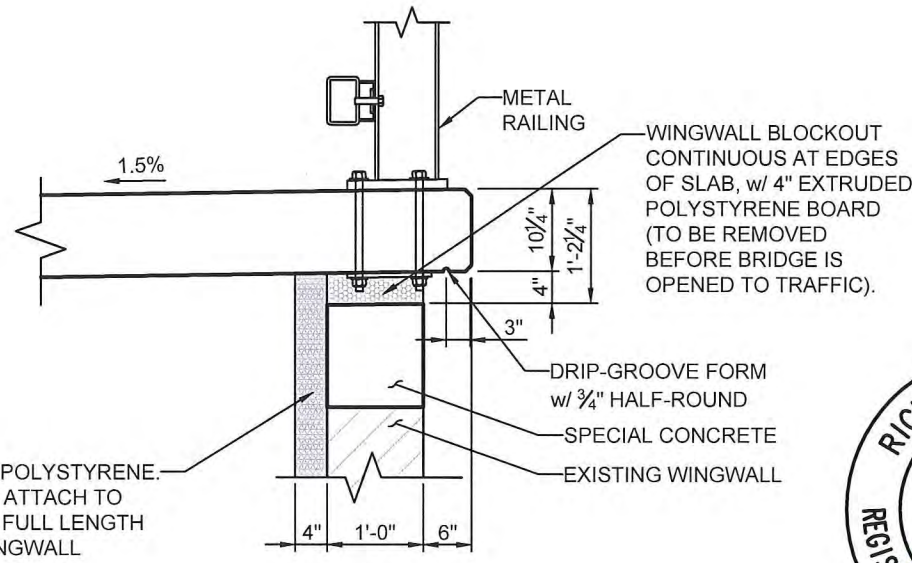
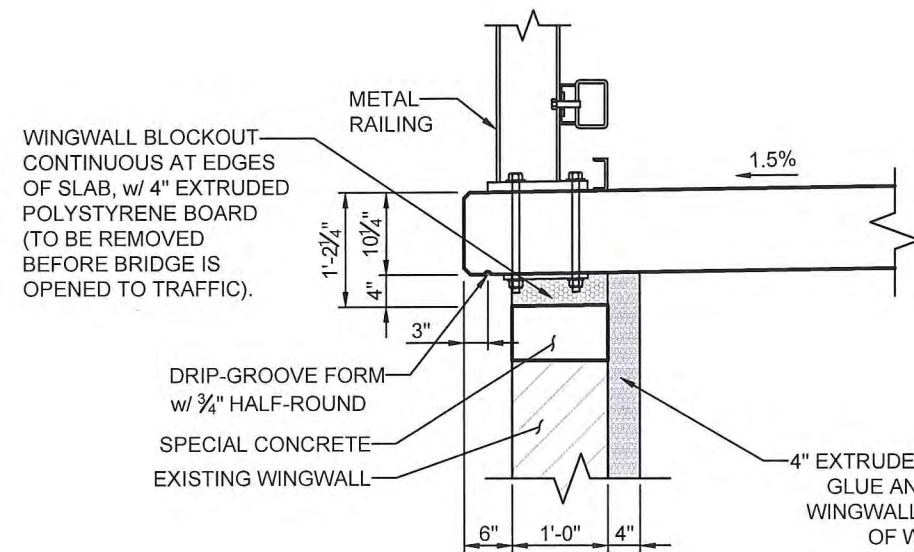
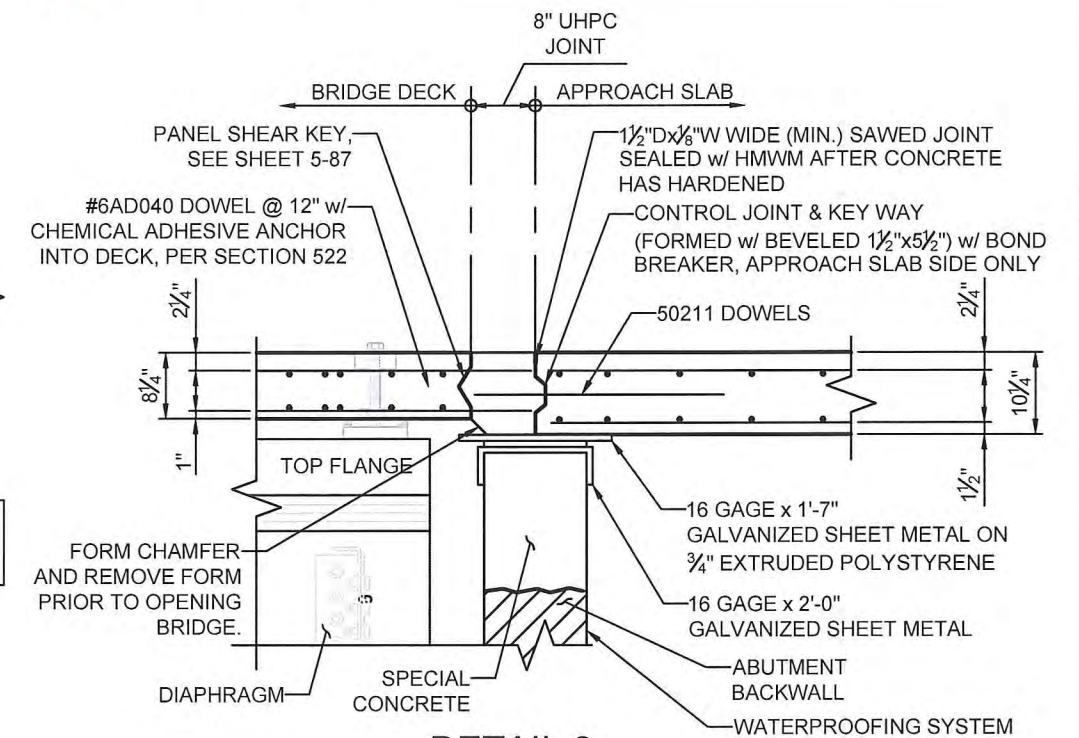
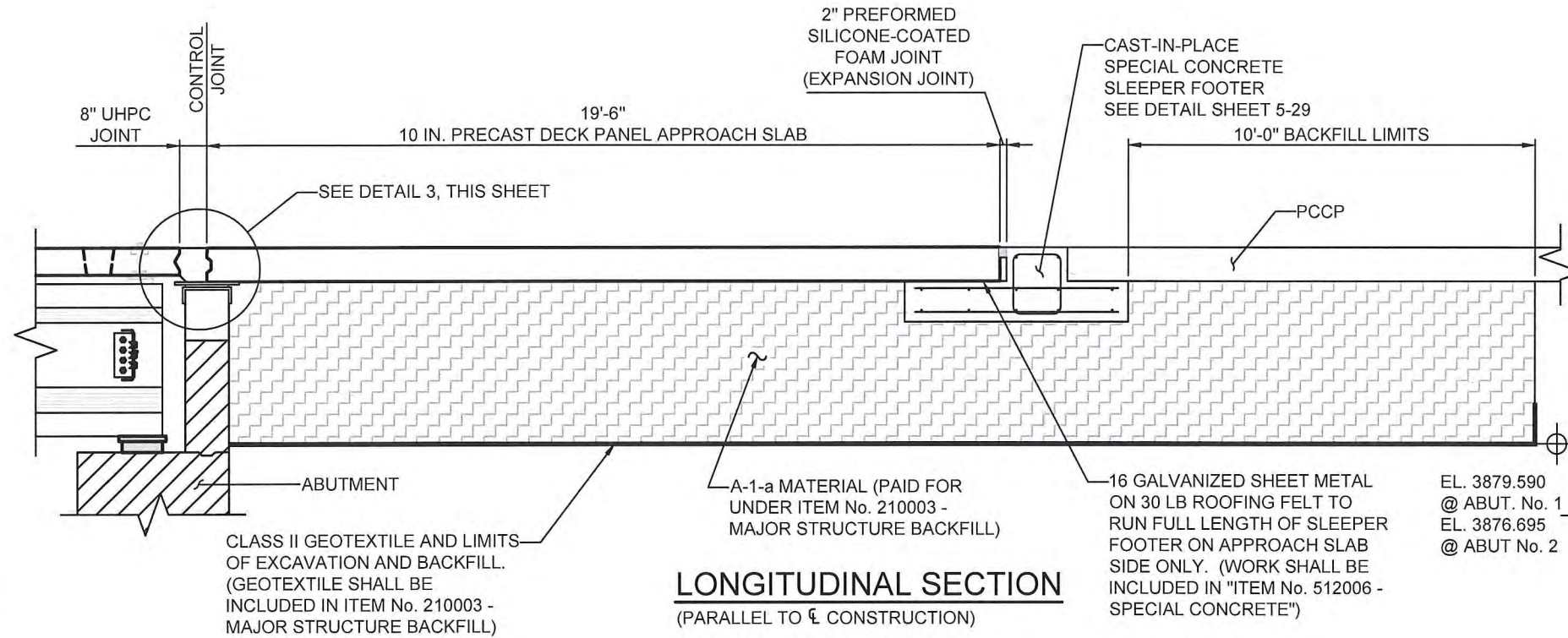
BEARING DETAILS
(CONT.)



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-27



BRIDGE:			
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

APPROACH SLAB
DETAILS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

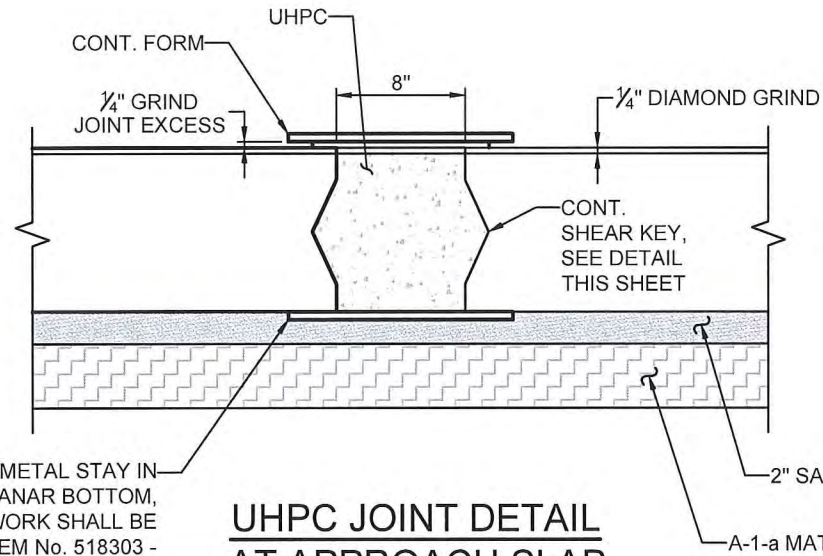
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

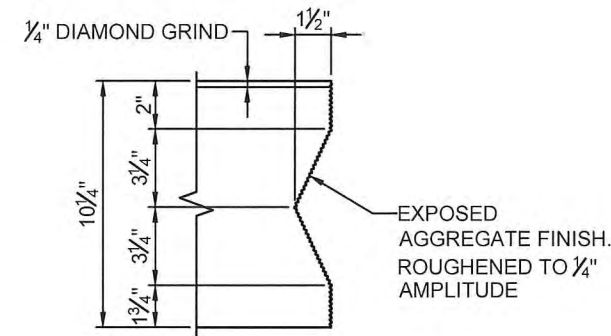
CONTROL No.
4101490

SHEET No.
5-28

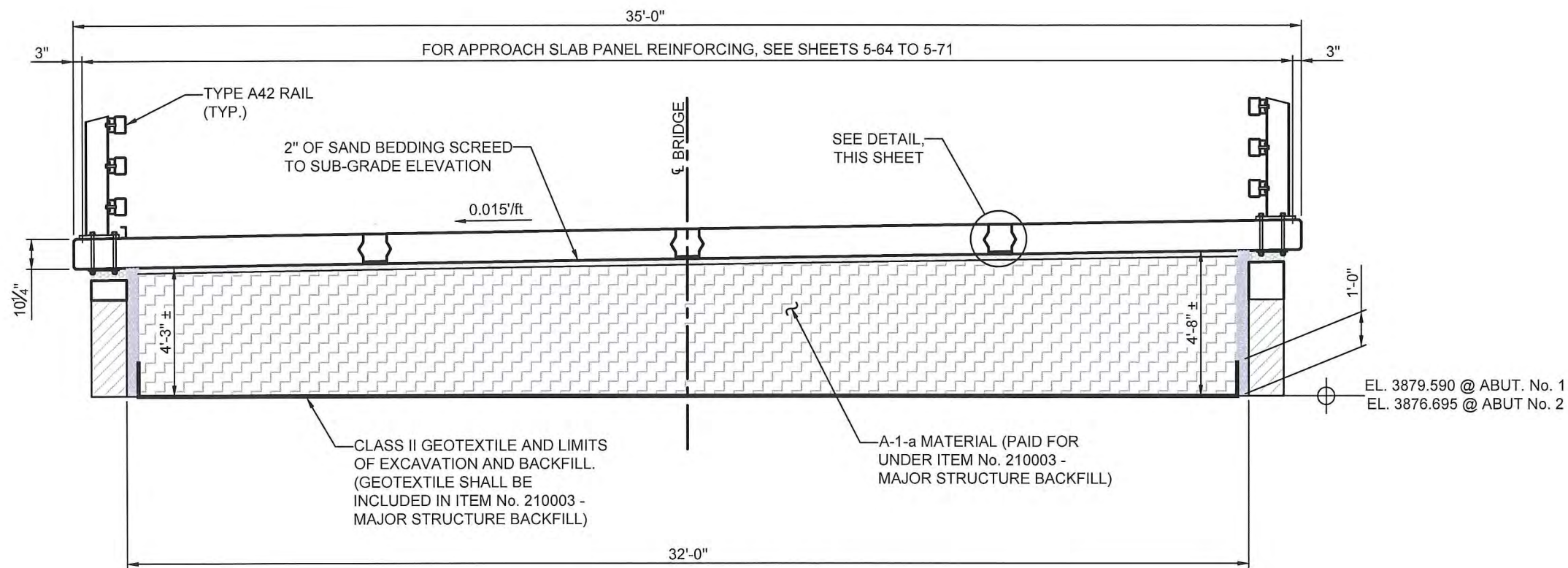


APPROVED GALVANIZED METAL STAY IN PLACE WITH SMOOTH PLANAR BOTTOM, BELOW KEYWAYS. (WORK SHALL BE INCLUDED IN ITEM No. 518303 - PRECAST DECK PANELS 10" MIN. DEPTH, TYP.)

UHPC JOINT DETAIL AT APPROACH SLAB



APPROACH SLAB PANEL SHEAR KEY DETAIL



LEGEND

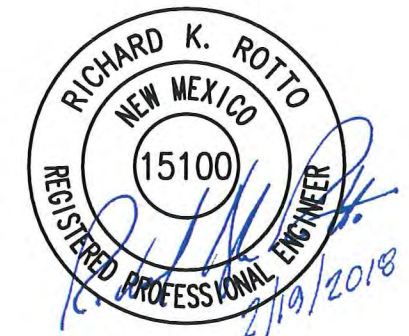
- EXISTING TO REMAIN
- EXCAVATION AND BACKFILL FOR MAJOR STRUCTURES

TRANSVERSE SECTION

PERPENDICULAR TO ϵ CONSTRUCTION (LOOKING UP STATION)
APPROACH SLAB 2 SIMILAR

NOTE:

1. UHPC JOINT SHALL BE FORMED AND TIGHTENED IN PLACE. SUBMIT FOR APPROVAL STAY IN PLACE BOTTOM FORM.
2. CONTRACTOR SHALL USE A 2" SAND BED SCREED TO SUBGRADE ELEVATION DIRECTLY BELOW APPROACH SLABS. TOLERANCE TO SUBGRADE ELEVATION IS +0" TO -1/4". FINAL CONDITION SHALL ALLOW APPROACH SLAB TO SLIDE ATOP SUBGRADE, ALONG A PLANAR SURFACE.



BRIDGE			
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

APPROACH SLAB
SECTIONS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018

STA. 840+48.62

SHEET NO. 5-28



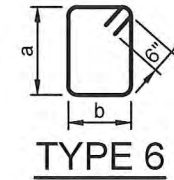
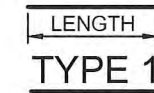
Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-29

BAR BENDING DIAGRAM

BAR TYPES WITH AN "E" DENOTE EPOXY COATED BARS.

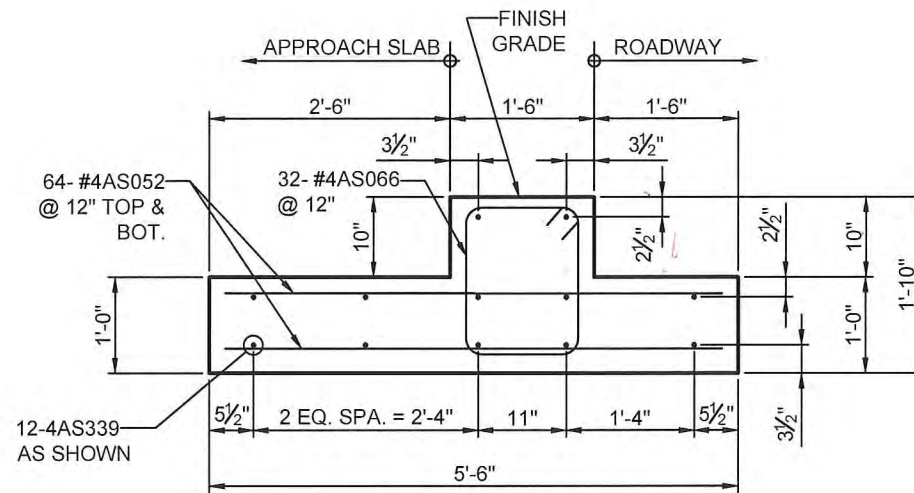


REINFORCEMENT SCHEDULE (FOR ONE APPROACH SLAB)

MARK	SIZE	TYPE	LENGTH	NO. REQ'D.	REMARKS
SLEEPER FOOTER					
#4AS052	#4	1E	5'-2"	64	32 TOP AND BOTTOM
#4AS339	#4	1E	33'-9"	12	
#4AS066	#4	6E	6'-6"	32	a=1'-6", b=1'-2"

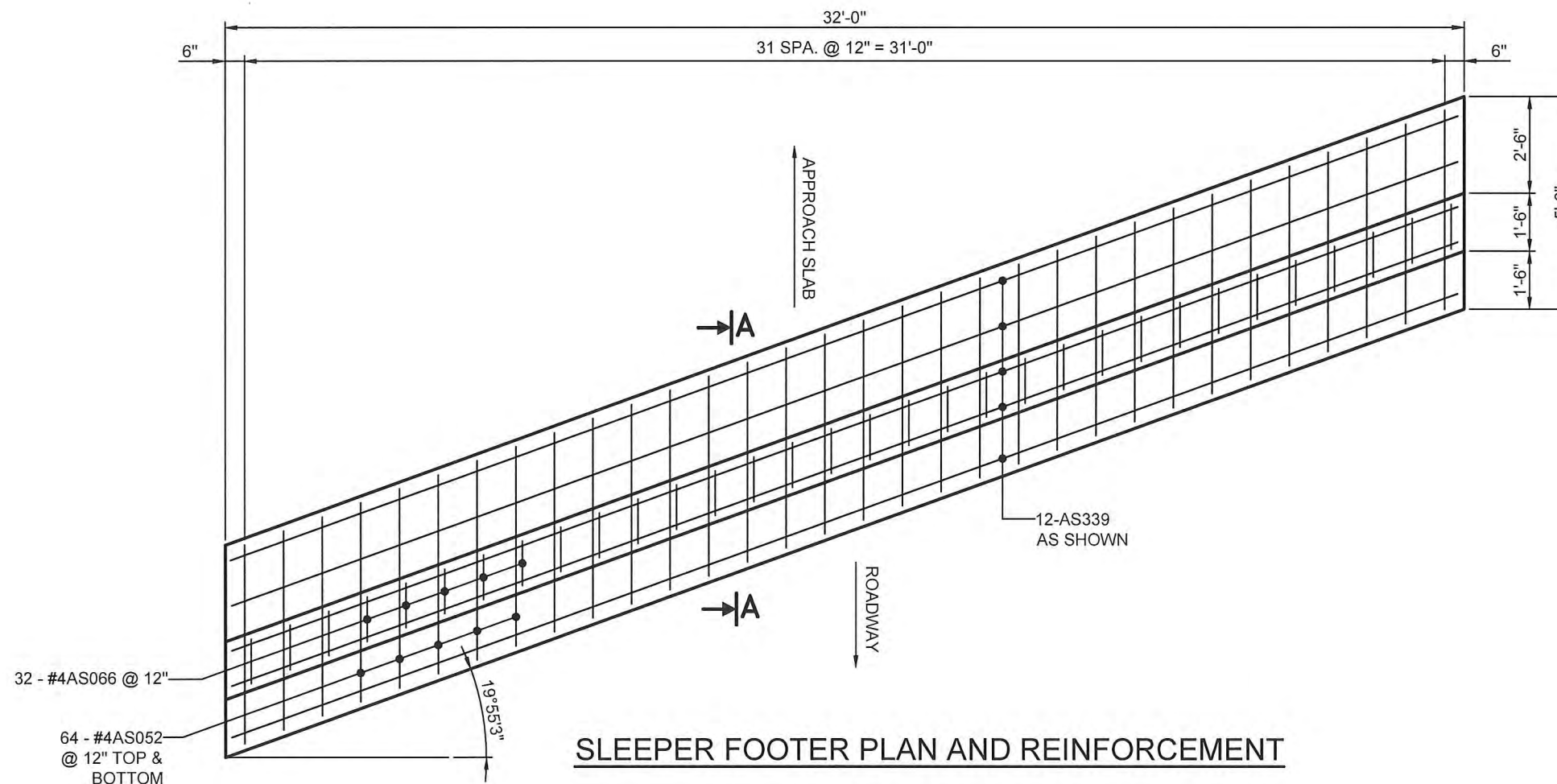
NOTES:

- SLEEPER FOOTER SHALL BE SPECIAL CONCRETE.

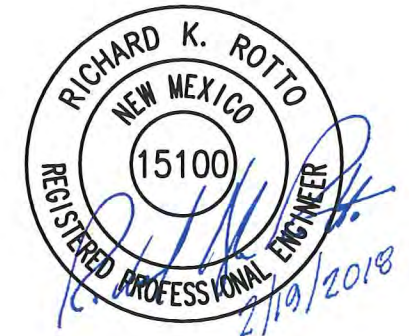


SLEEPER FOOTER SECTION A-A

SECTION TAKEN PARALLEL TO CL BRIDGE



SLEEPER FOOTER PLAN AND REINFORCEMENT



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

SLEEPER FOOTER
DETAILS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

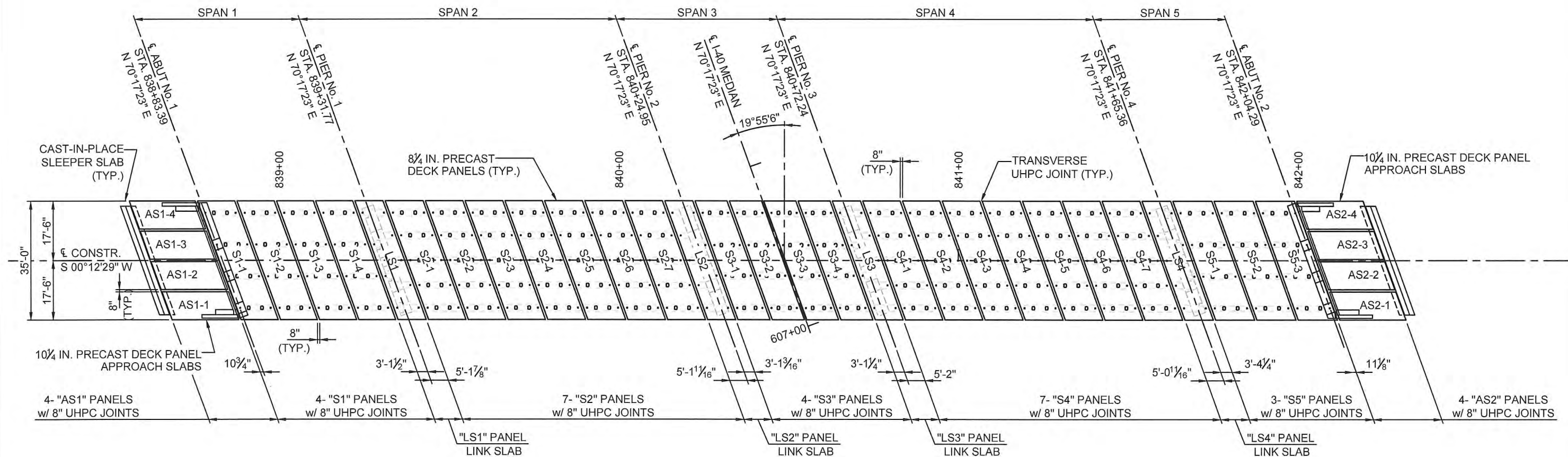
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-30



PRECAST DECK PANEL FRAMING PLAN

SUGGESTED SEQUENCE OF CONSTRUCTION PRIOR TO INSTALLING PANELS

1. PREPARE GIRDERS TO RECEIVE PANELS. INCLUDING BEARING REPLACEMENT, REMOVING REINFORCING EXTENDING INTO DECK, INSTALLING DIAPHRAGMS AND RESETTING OF GIRDERS.
2. SURVEY LEVELING PLATE LOCATIONS FOR INSTALLING LEVELING PLATES IN TOP FLANGE.
3. INSTALL LEVELING PLATES.
4. PROFILE SURVEY OF GIRDERS, PER 512.3.2.
5. INSTALL HAUNCH FORMS AND FORM RETAINERS.
6. PREPARE SURVEY STAKING PLAN FOR PANEL LAYOUT DURING ERECTION.

SUGGESTED SEQUENCE OF CONSTRUCTION NOTES:

1. ERECT DECK PANELS. THE CONTRACTOR'S SURVEYOR SHALL BE ON SITE DURING PRECAST PANEL ERECTION. ADJUST EACH PANEL ACCORDING TO THE FOLLOWING PROCEDURES:
 - A. AFTER LIFTING THE PANEL FROM THE TRANSPORT TRUCK AND BEFORE SETTING THE PANEL ON THE GIRDERS, ADJUST THE HEIGHT OF THE VERTICAL ADJUSTMENT BOLTS SO THEY WILL SUPPORT THE PANEL WHEN IT IS BEING SET ON THE GIRDERS.
 - B. ADJUST THE LOCATION OF THE PANEL SO THAT IT RESTS IN THE CORRECT LOCATION.
 - C. ADJUST THE PANEL ELEVATION AND SLOPE BY ADJUSTING THE VERTICAL ADJUSTMENT BOLTS. TIGHTEN THE VERTICAL ADJUSTMENT BOLTS SO THAT ALL BOLTS CAN EVENLY SUPPORT THE PANEL.
 - D. CHECK GRADE AND ADJUST VERTICAL ADJUSTMENT BOLTS AS NEEDED.
2. FIELD INSTALL ALL SHEAR CONNECTORS.
3. PLACE UHPC IN THE TRANSVERSE AND LONGITUDINAL JOINTS.
4. PLACE UHPC IN SHEAR CONNECTOR POCKETS AND HAUNCH FORMS.
5. REMOVE HAUNCH FORMS, UHPC FORMS, AND LEVELING BOLTS.
6. THE CONTRACTOR SHALL CHECK FOR VOIDS IN THE HAUNCH FORMS VIA VISUAL INSPECTION AND SOUNDING.
7. IF VOIDS ARE FOUND, REPAIR PER APPROVED METHOD. 28 DAYS PRIOR TO PLACING PANELS, THE CONTRACTOR SHALL SUBMIT REPAIR PLAN FOR APPROVAL.
8. PLACE UHPC IN LEVELING BOLT INSERTS.
9. DIAMOND GRIND DECK UP TO 1/4" TO PROVIDE PLANER SURFACE.



30 20 10 0 30

SCALE: 1" = 30'-0"



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION
BRIDGE No. 7345

PRECAST DECK PANEL
FRAMING PLAN

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

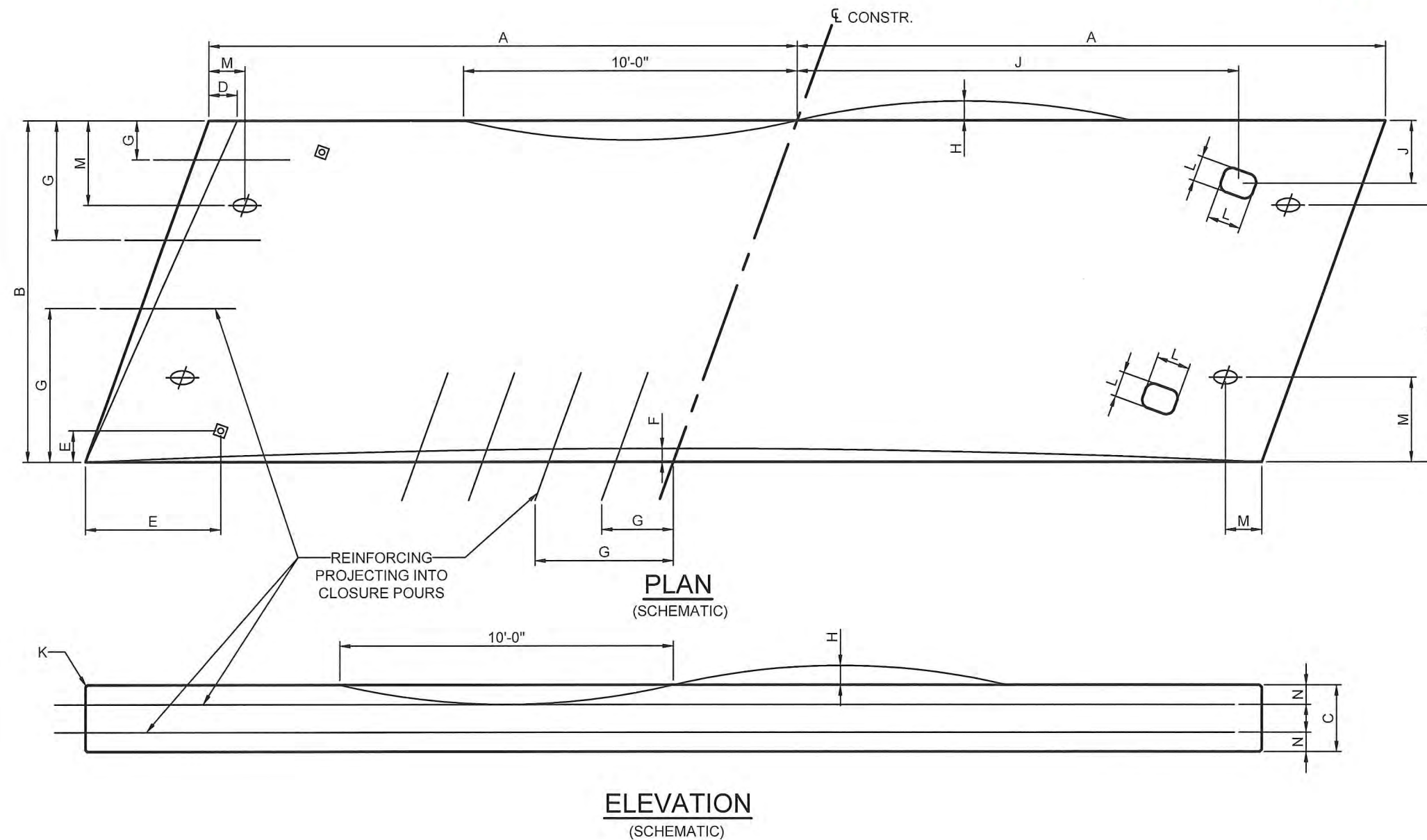
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-31



DECK PANEL TOLERANCES

A	LENGTH MEASURED FROM CONTROL LINE	$\pm \frac{1}{8}$ "
B	WIDTH (OVERALL)	$\pm \frac{1}{8}$ "
C	DEPTH (OVERALL)	$+\frac{1}{4}$ ", $-\frac{1}{8}$ "
D	VARIATION FROM SPECIFIED PLAN END SQUARENESS OR SKEW	$\pm \frac{1}{8}$ "
E	LOCATION OF LEVELING BOLTS	± 1 "
F	SWEEP OVER MEMBER LENGTH	$\pm \frac{1}{8}$ "
G	LOCATION OF PROJECTING REINFORCING MEASURED FROM A COMMON REFERENCE POINT	$\pm \frac{1}{2}$ "
H	LOCAL SMOOTHNESS OF ANY SURFACE	$\pm \frac{1}{16}$ " IN 10'-0"
J	LOCATION OF BLOCKOUT FOR SHEAR CONNECTORS	$\pm \frac{1}{4}$ "
K	ERECTION ELEVATION TOLERANCE	$\pm \frac{1}{8}$ "
L	SIZE OF BLOCKOUTS	$\pm \frac{1}{4}$ "
M	LOCATION OF LIFTING DEVICE MEASURED FROM PANEL EDGE	± 1 "
N	REINFORCING BAR COVER (TOP AND BOTTOM)	$+\frac{1}{4}$ ", -0 "

NOTES:

1. THE FABRICATOR AND/OR CONTRACTOR SHALL SUBMIT CALCULATIONS FOR LIFTING LOCATIONS, SPACING, LIFTING DEVICE, PLAN AND HANDLING STRESS. THE CALCULATIONS SHOULD BE PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW MEXICO 30 CALENDAR DAYS PRIOR TO CONSTRUCTION OF THE PANELS, AND MUST BE APPROVED BY THE NMDOT BRIDGE BUREAU. THE CONTRACTOR SHALL POSITION THE LIFTING HARDWARE SO THAT IT AVOIDS THE REINFORCEMENT IN THE PRECAST DECK PANELS.
2. SHEET 5-32 "LIFTING DEVICE AND VERTICAL ADJUSTMENT DETAILS" SHOWS A TYPICAL VERTICAL ADJUSTMENT DEVICE. HOWEVER, THE FABRICATOR AND/OR CONTRACTOR MAY CHOOSE AN ALTERNATE VERTICAL ADJUSTMENT DEVICE WITH WRITTEN APPROVAL FROM THE BRIDGE BUREAU. THE FABRICATOR AND/OR CONTRACTOR SHALL PROVIDE DIMENSIONS, CROSS SECTIONS, ETC. AND ALLOW THE BRIDGE BUREAU AT LEAST 30 CALENDAR DAYS OF REVIEW TIME.



BRIDGE: REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION
BRIDGE No. 7345

PRECAST DECK PANEL TOLERANCES

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

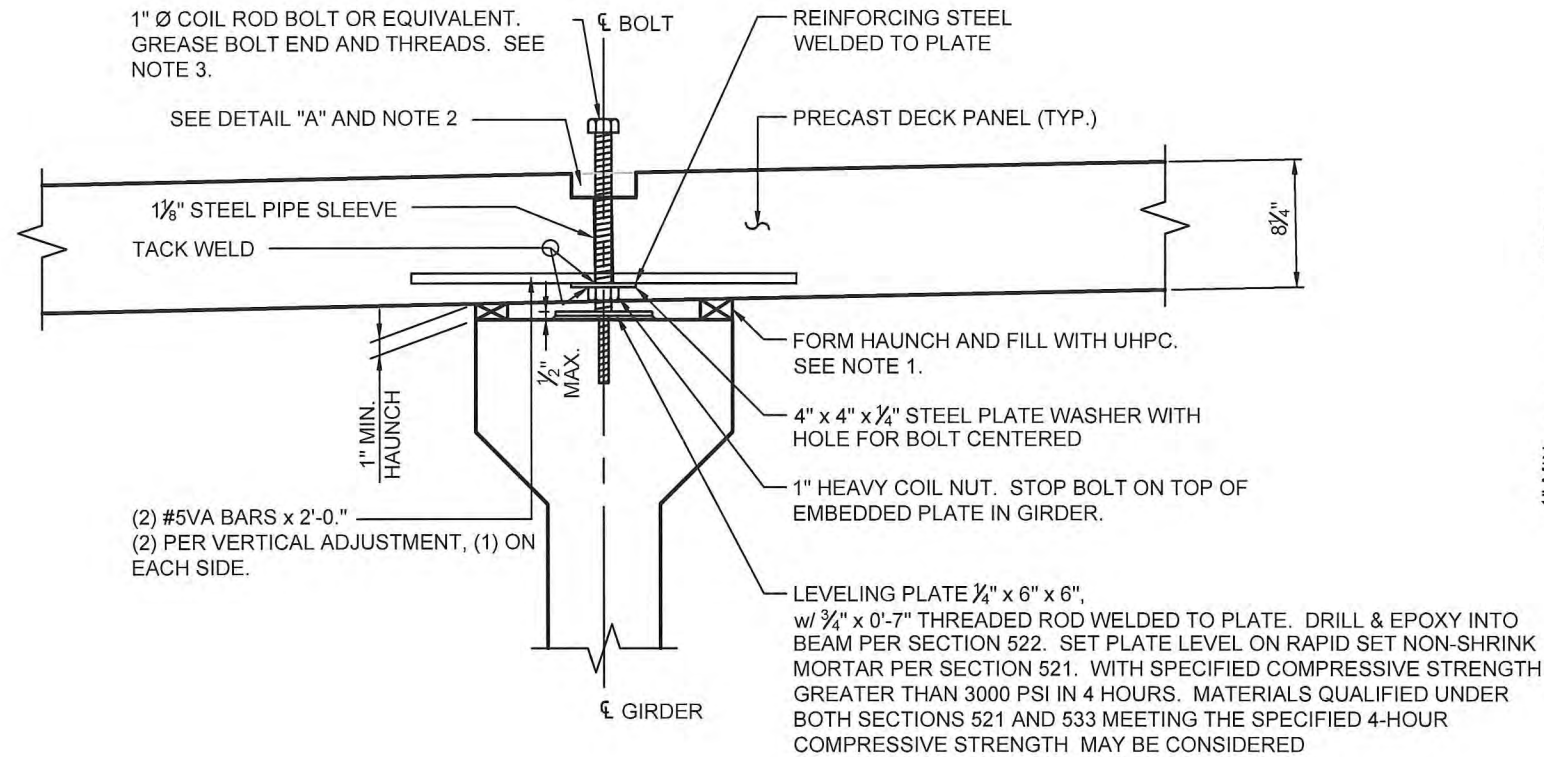
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

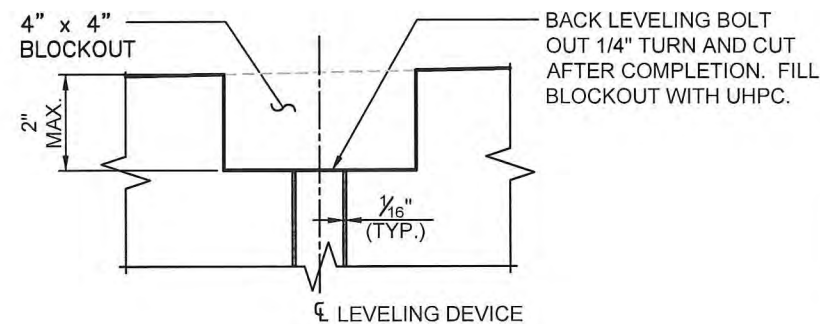
CONTROL No.
4101490

SHEET No.
5-32

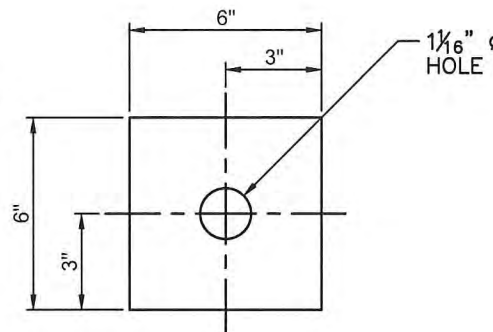


VERTICAL ADJUSTMENT DETAIL

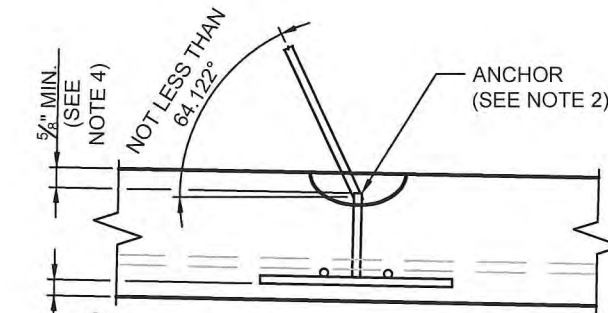
(ALL COMPONENTS OF VERTICAL ADJUSTMENT DEVICE ARE TO BE HOT DIPPED GALVANIZED)



DETAIL "A"

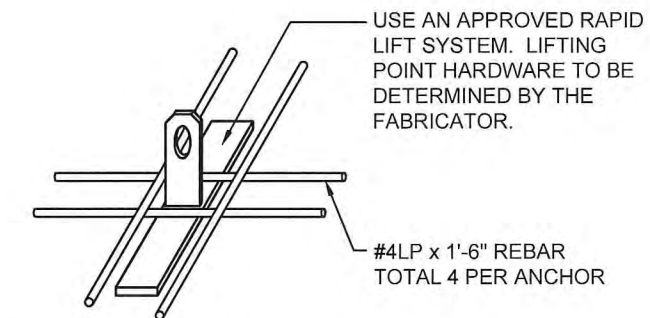


WASHER DETAIL



ANCHOR PLATE ELEVATION

(ALL COMPONENTS OF LIFTING DEVICE ARE TO BE HOT DIPPED GALVANIZED)



ANCHOR PLATE DETAIL

NOTES:

- METHOD OF FORMING HAUNCHES TO BE DETERMINED BY THE CONTRACTOR.
- PLUG BLOCKOUT DURING FABRICATION OF DECK PANEL. FILL VOID WITH UHPC AFTER LEVELING DEVICES ARE AT THE CORRECT HEIGHT AND BOLTS HAVE BEEN REMOVED OR CUT.
- 1" Ø COIL ROD BOLT OR EQUIVALENT SHALL BE CORROSION RESISTANT. THE CONTRACTOR SHALL ENSURE THAT THIS COIL ROD BOLT WILL BE LONG ENOUGH TO ADJUST THE DECK PANELS TO THE FINAL GRADE.
- THE CONTRACTOR SHALL USE A LIFTING DEVICE THAT WILL HAVE 2 1/2" TOP COVER AND 1" BOTTOM COVER AFTER INSTALLATION. THIS MAY REQUIRE PARTIAL REMOVAL OF THE DEVICE AFTER INSTALLATION.



BRIDGE REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF TRANSPORTATION

NM-93 OVER I-40 BRIDGE REHABILITATION

BRIDGE No. 7345

LIFTING DEVICE AND VERTICAL ADJUSTMENT DETAILS

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018

STA. 840+48.62

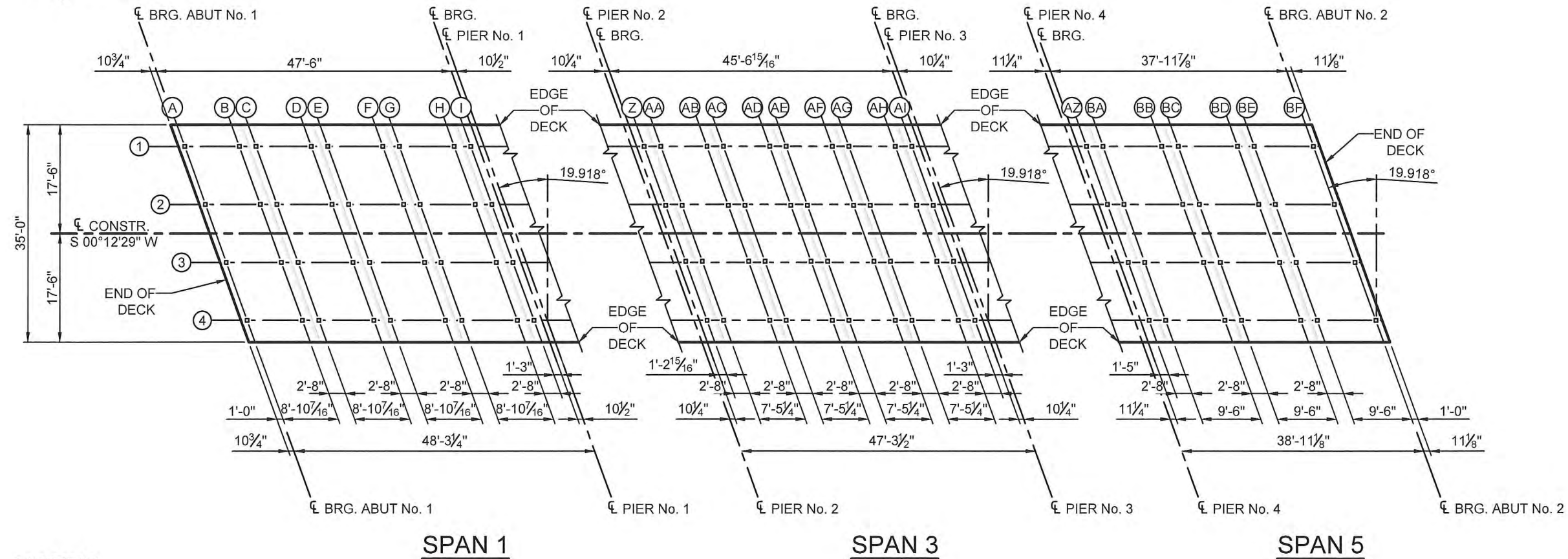
SHEET NO. 5-32



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-33



NOTES:

1. FOR STATION, OFFSET, NORTHING AND EASTING OF POINTS, SEE SHEET 5-88.

DIAGRAM FOR ELEVATIONS

SPAN 1 - TOP OF DECK ELEVATIONS

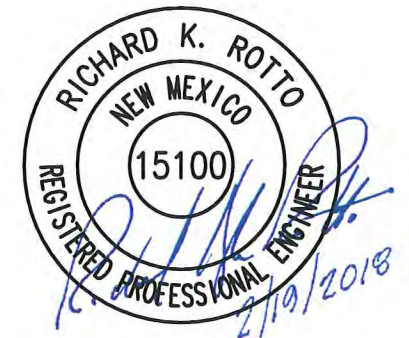
LOCATION	A	B	C	D	E	F	G	H	I
GIRDER 1	3884.536	3884.574	3884.584	3884.614	3884.621	3884.641	3884.646	3884.658	3884.660
GIRDER 2	3884.692	3884.727	3884.736	3884.763	3884.770	3884.787	3884.791	3884.800	3884.802
GIRDER 3	3884.846	3884.879	3884.887	3884.911	3884.917	3884.932	3884.936	3884.942	3884.942
GIRDER 4	3884.999	3885.029	3885.037	3885.059	3885.064	3885.076	3885.079	3885.083	3885.082

SPAN 3 - TOP OF DECK ELEVATIONS

LOCATION	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
GIRDER 1	3884.319	3884.298	3884.237	3884.213	3884.146	3884.120	3884.046	3884.018	3883.938	3883.907
GIRDER 2	3884.434	3884.413	3884.349	3884.325	3884.255	3884.229	3884.153	3884.124	3884.041	3884.010
GIRDER 3	3884.543	3884.520	3884.455	3884.430	3884.358	3884.331	3884.253	3884.223	3884.138	3884.107
GIRDER 4	3884.656	3884.633	3884.565	3884.540	3884.466	3884.438	3884.357	3884.327	3884.240	3884.207

SPAN 5 - TOP OF DECK ELEVATIONS

LOCATION	AZ	BA	BB	BC	BD	BE	BF
GIRDER 1	3882.386	3882.333	3882.139	3882.083	3881.879	3881.821	3881.607
GIRDER 2	3882.459	3882.405	3882.208	3882.152	3881.945	3881.885	3881.669
GIRDER 3	3882.530	3882.476	3882.276	3882.219	3882.009	3881.949	3881.730
GIRDER 4	3882.601	3882.546	3882.343	3882.285	3882.073	3882.012	3881.790



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

TOP OF DECK ELEVATIONS
SPANS 1, 3 & 5

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

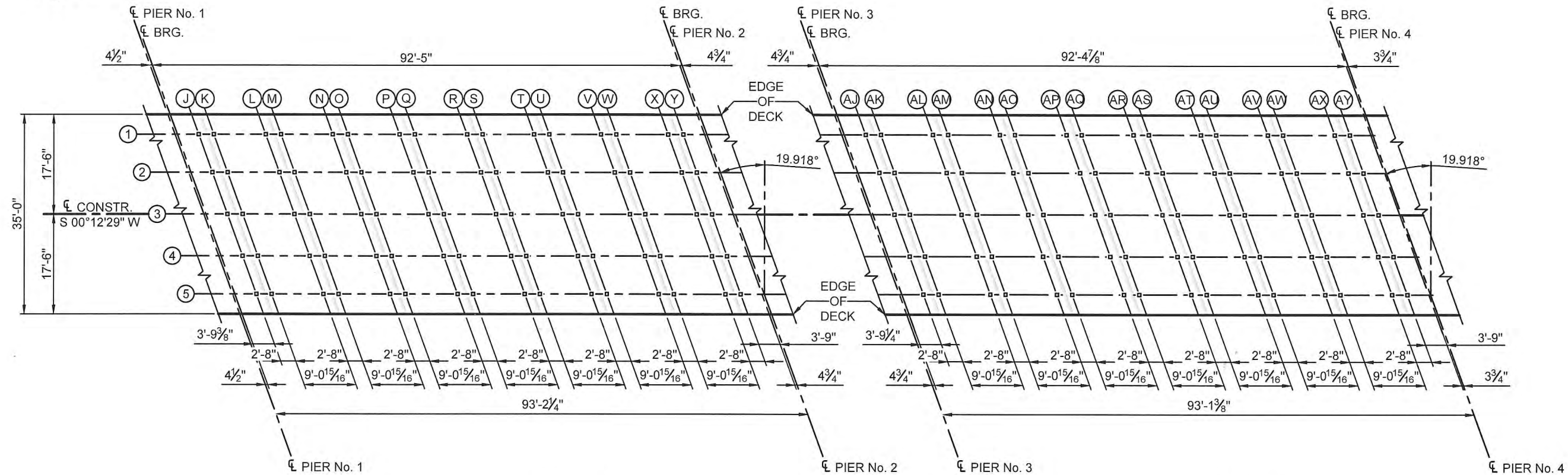
APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018



Louis Berger
Santa Fe, New Mexico

CONTROL No.
4101490

SHEET No.
5-34



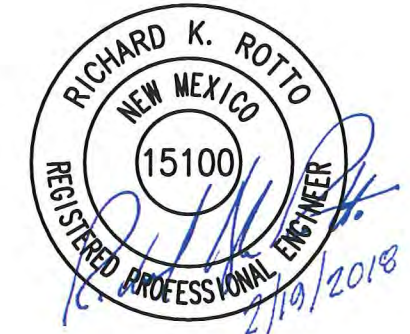
NOTES:

1. FOR STATION, OFFSET, NORTHING AND EASTING OF POINTS, SEE SHEET 5-88.

SPAN 2

DIAGRAM FOR ELEVATIONS

SPAN 4



SPAN 2 - TOP OF DECK ELEVATIONS

LOCATION	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
GIRDER 1	3884.662	3884.662	3884.658	3884.656	3884.642	3884.637	3884.614	3884.606	3884.574	3884.564	3884.523	3884.509	3884.459	3884.443	3884.384	3884.365
GIRDER 2	3884.762	3884.762	3884.756	3884.753	3884.737	3884.731	3884.707	3884.698	3884.665	3884.653	3884.611	3884.597	3884.545	3884.528	3884.467	3884.447
GIRDER 3	3884.872	3884.871	3884.863	3884.859	3884.841	3884.835	3884.808	3884.799	3884.764	3884.752	3884.707	3884.692	3884.638	3884.621	3884.558	3884.538
GIRDER 4	3884.981	3884.979	3884.969	3884.965	3884.945	3884.938	3884.909	3884.900	3884.862	3884.849	3884.802	3884.787	3884.731	3884.713	3884.648	3884.627
GIRDER 5	3885.079	3885.077	3885.065	3885.060	3885.039	3885.031	3885.000	3884.990	3884.950	3884.937	3884.889	3884.873	3884.815	3884.796	3884.729	3884.708

SPAN 4 - TOP OF DECK ELEVATIONS

LOCATION	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY
GIRDER 1	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879	3883.879
GIRDER 2	3883.905	3883.873	3883.757	3883.721	3883.596	3883.558	3883.424	3883.383	3883.240	3883.196	3883.044	3882.998	3882.836	3882.787	3882.616	3882.565
GIRDER 3	3883.983	3883.949	3883.831	3883.796	3883.668	3883.630	3883.493	3883.452	3883.307	3883.262	3883.108	3883.061	3882.897	3882.848	3882.675	3882.623
GIRDER 4	3884.059	3884.026	3883.906	3883.869	3883.740	3883.700	3883.562	3883.520	3883.373	3883.328	3883.171	3883.124	3882.958	3882.908	3882.733	3882.680
GIRDER 5	3884.129	3884.094	3883.972	3883.935	3883.804	3883.764	3883.624	3883.582	3883.432	3883.387	3883.228	3883.180	3883.013	3882.962	3882.785	3882.732

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			

NEW MEXICO DEPARTMENT OF
TRANSPORTATION

NM-93 OVER I-40
BRIDGE REHABILITATION

BRIDGE No. 7345

TOP OF DECK ELEVATIONS
SPANS 2 & 4

DESIGNED BY: IM DRAWN BY: CDS CHECKED BY: RKR PLOT DATE: 2/19/2018

APPROVED FOR CONSTRUCTION: Kimberly Coleman DATE: 2/20/2018