

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: F 2B24(096)

CONTROL: 2121-01-104

COUNTY: EL PASO

LETTING: 05/03/2024

REFERENCE NO: 0426

PROPOSAL ADDENDUMS

- _ PROPOSAL COVER
X BID INSERTS (SH. NO.: ALL)
X GENERAL NOTES (SH. NO.: SHEETS B, F, I THRU K, N, V AND EE. ADDED)
SHEET LL. SHEETS I THRU KK: PARAGRAPH SHIFTED FROM PAGE TO PAGE)
_ SPEC LIST (SH. NO.:)
_ SPECIAL PROVISIONS:
ADDED:

DELETED:

- _ SPECIAL SPECIFICATIONS:
ADDED:

DELETED:

X OTHER: PLAN SHEETS AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

***** PROPOSAL *****

***** BID INSERTS *****

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS: 192-6017, 192-6024,
192-6030, 192-6032, 192-6033, 192-6063, 416-6018, 416-6022, 425-6020
425-6026, 636-6002, 636-6003, 647-6001, 1002-6002, 1002-6004, 1002-6005
1002-6006, 1005-6001 AND 2017-6001

DELETED THE FOLLOWING BID ITEMS: 650-6047

***** GENERAL NOTES *****

SHEETS B: REVISED TO OMIT PMBD (MOD). IT IS NOT A MODIFIED STANDARD.

SHEET F: REVISED ITEM 8: THE MAXIMUM DAYS FOR SUBSTANTIAL COMPLETION
REVISED TO 1120.

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

SHEET I: ADDED TABLE 2 TO SHOW TESTING REQUIREMENTS. REVISED ITEM 134 TABLE 3 FOR SEED AND MIX RATE.

SHEET J: ADDED ITEM 192 LANDSCAPE PLANTING GENERAL NOTE.

SHEET K: CONTINUED WITH ADDED PARAGRAPH FROM GENERAL NOTE 192.

SHEET N: REVISED TITLE FOR ITEM 423.

SHEET V: REVISED THE LAST PARAGRAPH OF GENERAL NOTE 512 TO CLARIFY TREATMENT PAYMENT METHOD.

SHEET EE: REVISED PARAGRAPH FOR AGGREGATE TY I COLOR AND SIZE. ITEM 2017 ADDED PARAGRAPH FOR LOOP 375 FOR LOOSE AGGREGATE STOCKPILE.

SHEETS I TO KK: NOTES SHIFTED FROM PAGE TO PAGE DUE TO REVISIONS AND ADDING NEW NOTES. SHEET LL CREATED DUE TO THE SHIFTING OF NOTES.

***** SPECIFICATIONS LIST *****

***** PLAN SHEETS VOLUME 1*****

PLAN SHEETS 2 AND 5 (INDEX OF SHEETS): SHEET 8R REVISED TO ADD SHEET LL. SHEETS 45 AND 53 WERE LEFT OUT FROM PLANS INAVERTEDLY. SHEETS ADDED. SHEET 907 IS OMITTED FROM PLANS.

PLAN SHEETS 8, 8B, 8D-8R (GENERAL NOTES): REVISED AS SHOWN IN THE GENERAL NOTES OF THE PROPOSAL

PLAN SHEETS 18, 18A, TO 18G (ESTIMATE AND QUANTITY SHEET): REVISED ITEMS AND QUANTITIES AS SHOWN IN THE BID INSERS OF THE PROPOSAL.

PLAN SHEET 25 (SUMMARY OF ROADWAY QUANTITIES): REVISED QUNATITITES FOR ITEMS 0134-6002.

PLAN SHEETS 32, 36 THRU 38 (SUMMARY OF BRIDGE QUANTITIES): REVISED QUANTITY FOR ITEMS 425-6020 AND 425-6026.

PLAN SHEET 43 (SUMMARY OF SIGNS QUANTITIES): REVISED AND ADDED QUANTITIES FOR ITEMS 416, 636 ,647 AND 650.

PLAN SHEETS 45 AND 53: SHEETS WERE INAVERTEDLY LEFT OUT OF THE PLANS. SHEETS ADDED.

PLAN SHEET 46A (SUMMARY OF LANDSCAPE QUANTITIES): REVISED QUANTITIES FOR ITEMS 192, 1002, 1005 AND ADDED ITEM 2017.

***** PLAN SHEETS VOLUME 2*****

PLAN SHEET 236: REVISED QUANTITY FOR ITEM 134.
DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

PLAN SHEET 320: ADDED CUT AND RESTORE DETAIL.

PLAN SHEETS 314, 362 AND 366: SHEETS WERE INAVERTEDLY LEFT OUT OF THE PLAN SHEETS ADDED.

***** PLAN SHEETS VOLUME 3*****

PLAN SHEETS 528, 529, 531, 532, 546, 547, 549, 550, 564, 565, 579, 580, 594, 595, 597, 598, 612, 613, 615, 616, 630, 631, 633, 634, 648, 649, 651 AND 652: REVISED SHEET GENERAL NOTES.

PLAN SHEET 536: REVISED DETAIL TO REFLECT BEAM TYPE AND REVISED LF QUANTITY OF THE X- BEAMS.

PLAN SHEETS 675, 677, 694, 696, 713, 715, 732, 734, 747, 749, 762, AND 764 REVISED TABLE OF ESTIMATE QUANTITIES FOR X-BEAMS.

***** PLAN SHEETS VOLUME 4*****

PLAN SHEETS 882 AND 883: REVISED AND ADDED QUANTITIES TO SUMMARY TABL.

PLAN SHEETS 900, 901 AND 903: REVISED SIGN DETAILS.

PLAN SHEETS 915, AND 915A: REVISED STRCUTURE DATA.

PLAN SHEET 907: SHEET OMITTED FROM PLANS.

PLAN SHEET 921: ADD SIGNS AND REVISED PAGE TOTAL.

PLAN SHEET 1068: SHEET ADDED TO PLANS.

PLAN SHEETS 1178, 1179, 1180, 1198, 1202 AND 1203: REVISE LANDSCAPING QUANTITIES AND ADDED ITEM 2017 AND QUANTITY.

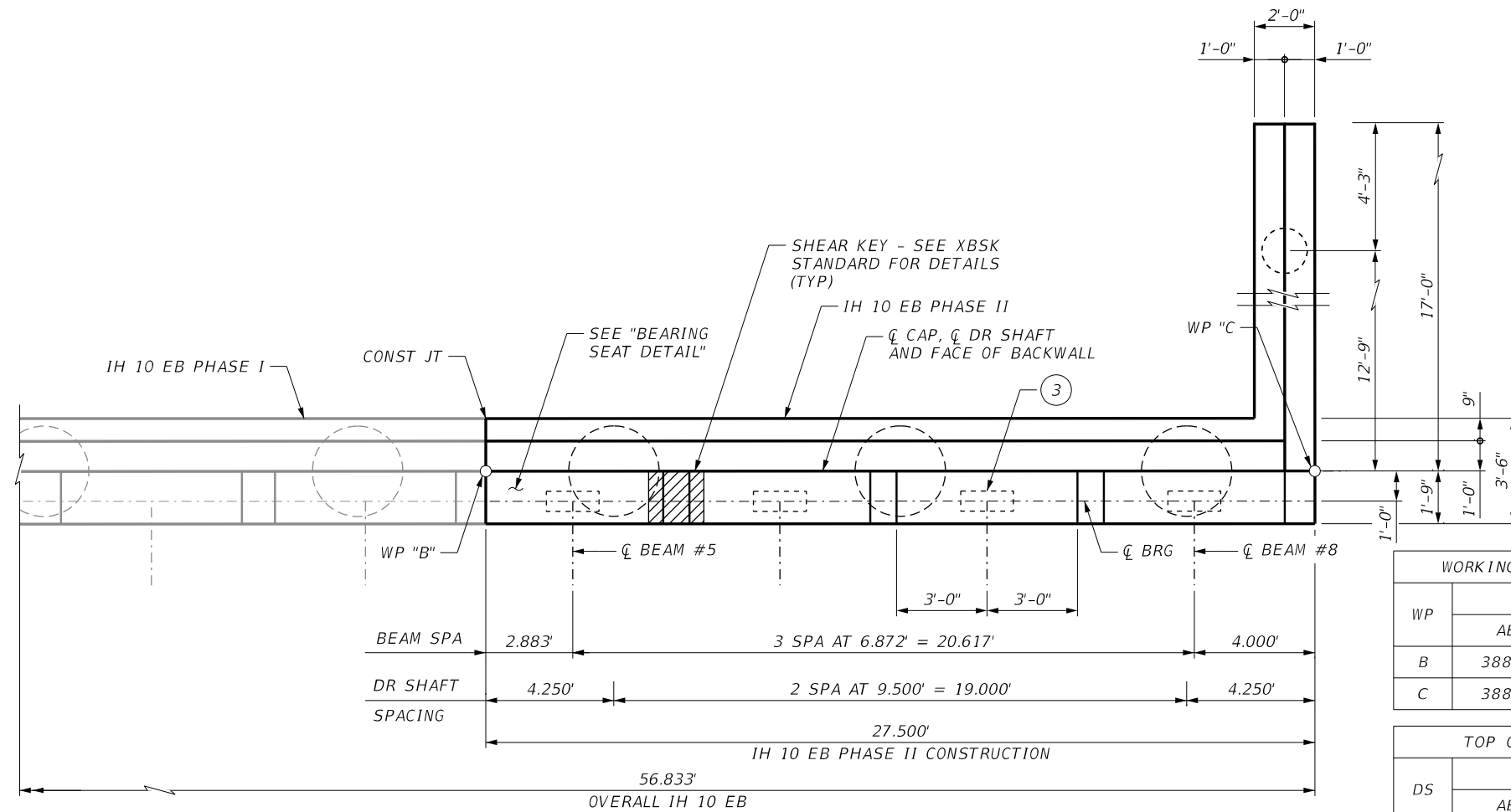
PLAN SHEETS 1204 THRU 1208: ADDED PLANT BED PREPARATION NOTES.

GENERAL NOTES

- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
- CONCRETE STRENGTH F'C = 3,600 PSI.
- ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
- SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
- SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
- SEE CONCRETE RIPRAP STANDARD SHEET, CRR, FOR RIPRAP ATTACHMENT DETAILS.
- SEE APPLICABLE RAIL DETAILS FOR RAIL ANCHORAGE IN WINGWALLS.
- LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.

KEYED NOTES

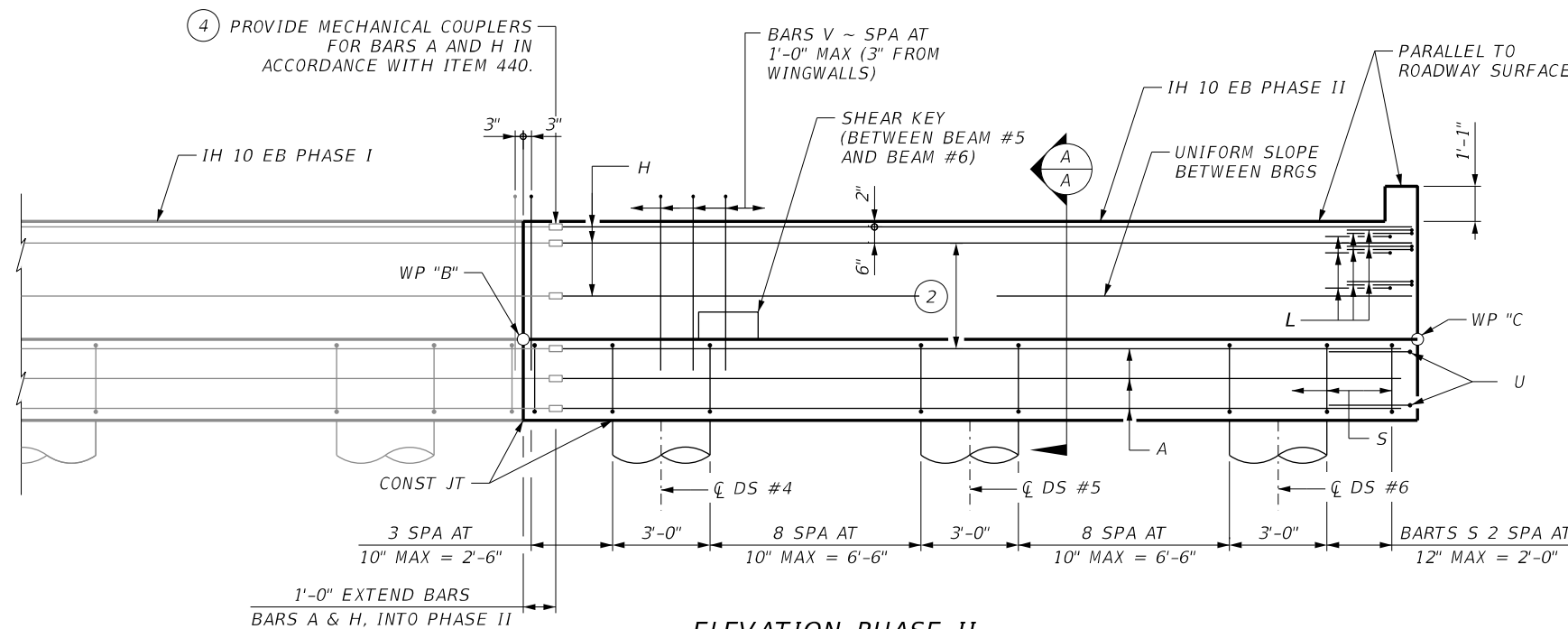
- INCREASE AS REQUIRED TO MAINTAIN 3 3/4" FROM FINISHED GRADE.
- SPACING BASED ON BEAM TYPE: XB20 ~ 2 EQUAL SPACES
- PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
- MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



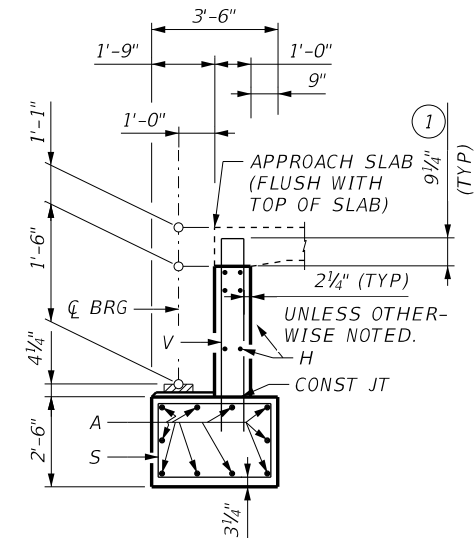
WORKING POINT ELEVATIONS		
WP	ELEV	
	ABUT 1	ABUT 4
B	3888.582'	3889.392'
C	3888.032'	3888.842'

TOP OF DS ELEVATIONS		
DS	ELEV	
	ABUT 1	ABUT 4
4	3885.997'	3886.807'
5	3885.807'	3886.617'
6	3885.617'	3886.427'
WW	3885.552'	3886.362'

PLAN PHASE II

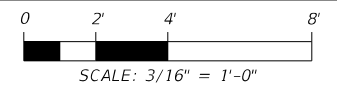


ELEVATION PHASE II



SECTION A-A

HL93 LOADING



Wirat Wanichakorn
4/24/2024

NO.	DATE	REVISION	APPROV.
1	4/24/2024	REVISED PLAN NOTES	

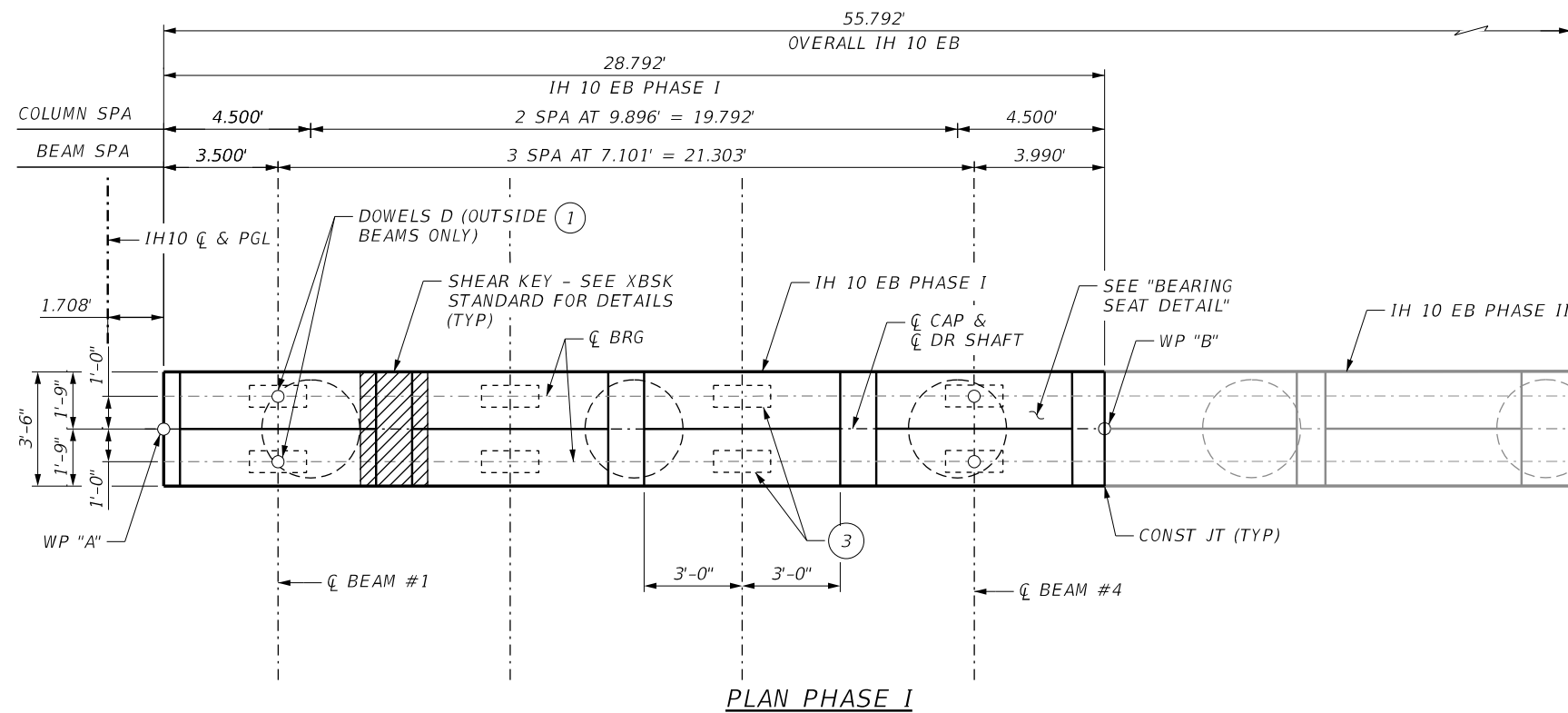
CivilCorp
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2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
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Texas Department of Transportation

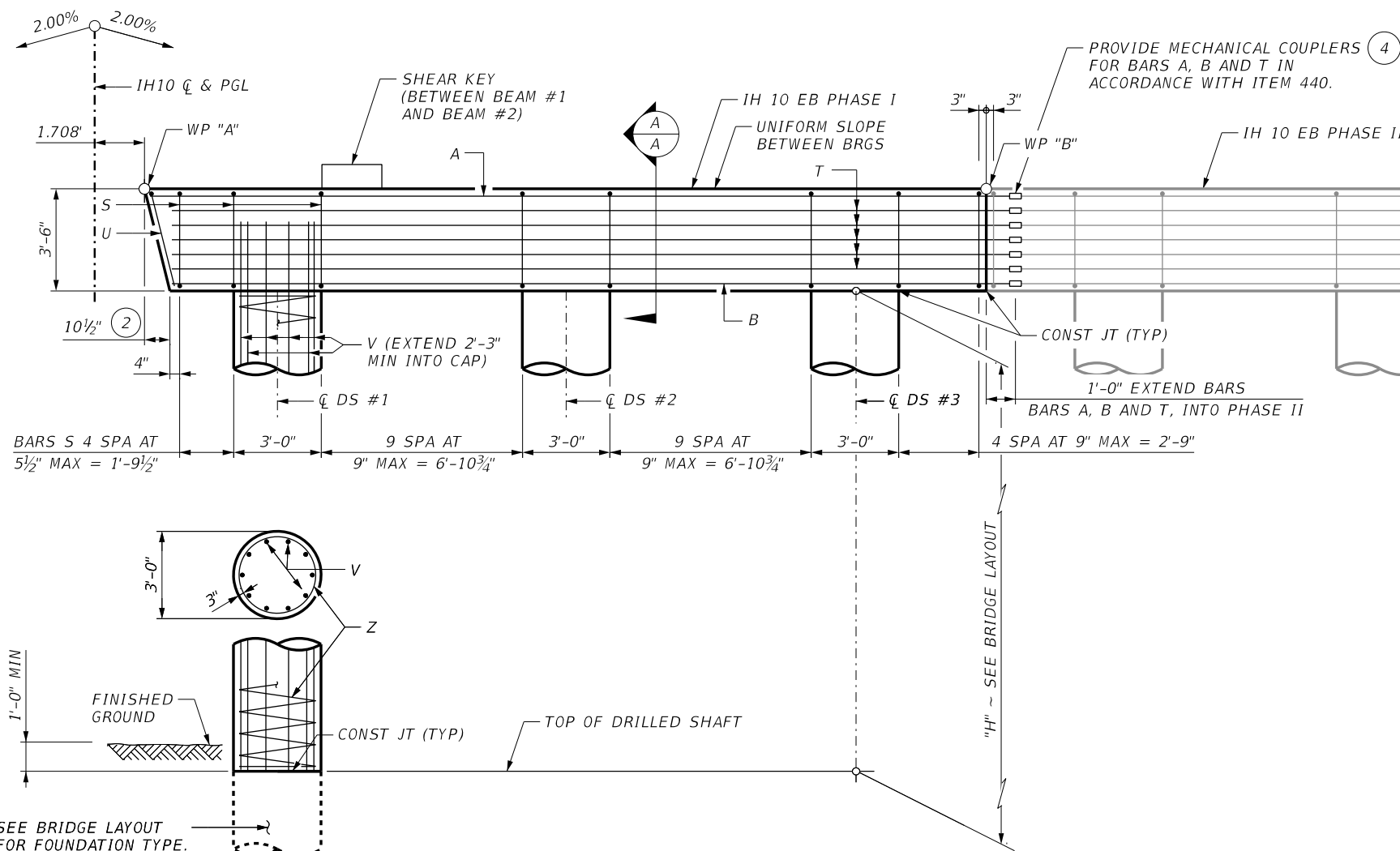
**IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 4
PHASE II
ARROYO 48 RELIEF #AA BRIDGE
IH 10 EB
(STA 23+62 TO STA 25+42)**

SHEET 1 OF 1

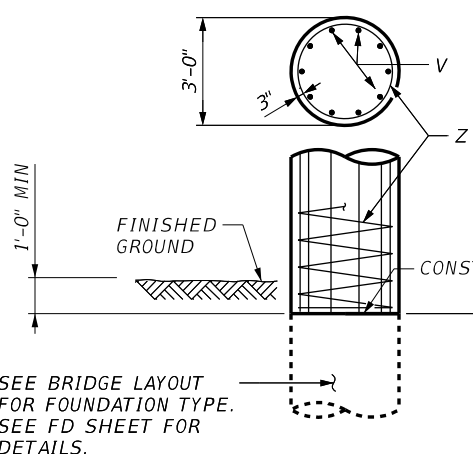
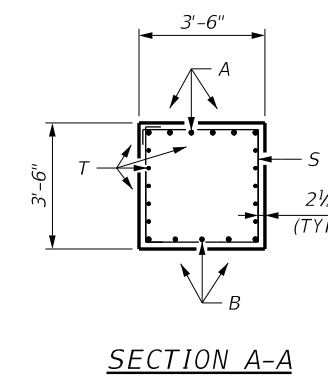
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	529



PLAN PHASE I



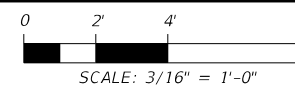
ELEVATION PHASE I



- GENERAL NOTES**
- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 - CONCRETE STRENGTH $F'_C = 3,600$ PSI.
 - ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
 - SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
 - SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
 - SEE CONCRETE RIPRAP STANDARD SHEET, CRR, FOR RIPRAP ATTACHMENT DETAILS.
 - SEE APPLICABLE RAIL DETAILS FOR RAIL ANCHORAGE IN WINGWALLS.
 - LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.

- KEYED NOTES**
- OMIT DOWELS D AT END OF UNIT. ADJUST REINFORCING STEEL TOTAL ACCORDINGLY.
 - MEASURED PARALLEL TO TOP OF CAP CROSS-SLOPE.
 - PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
 - MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".

HL93 LOADING



4/24/2024

REVISED PLAN NOTES

WORKING POINT ELEVATIONS		
WP	ELEV	
	BENT 2	BENT 3
A	3889.238'	3889.507'
B	3888.662'	3888.931'

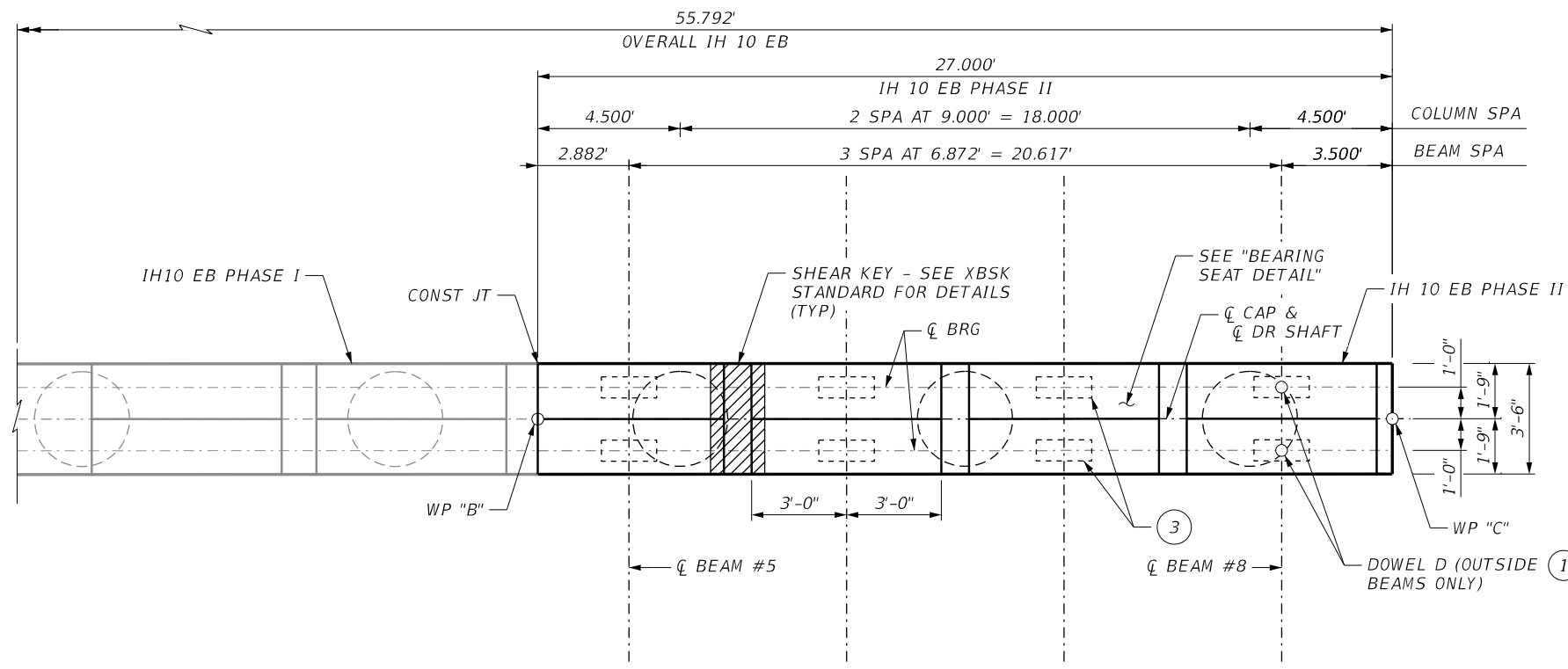
TOP OF COLUMN ELEVATIONS		
COL	ELEV	
	BENT 2	BENT 3
1	3885.648'	3885.917'
2	3885.450'	3885.719'
3	3885.252'	3885.521'



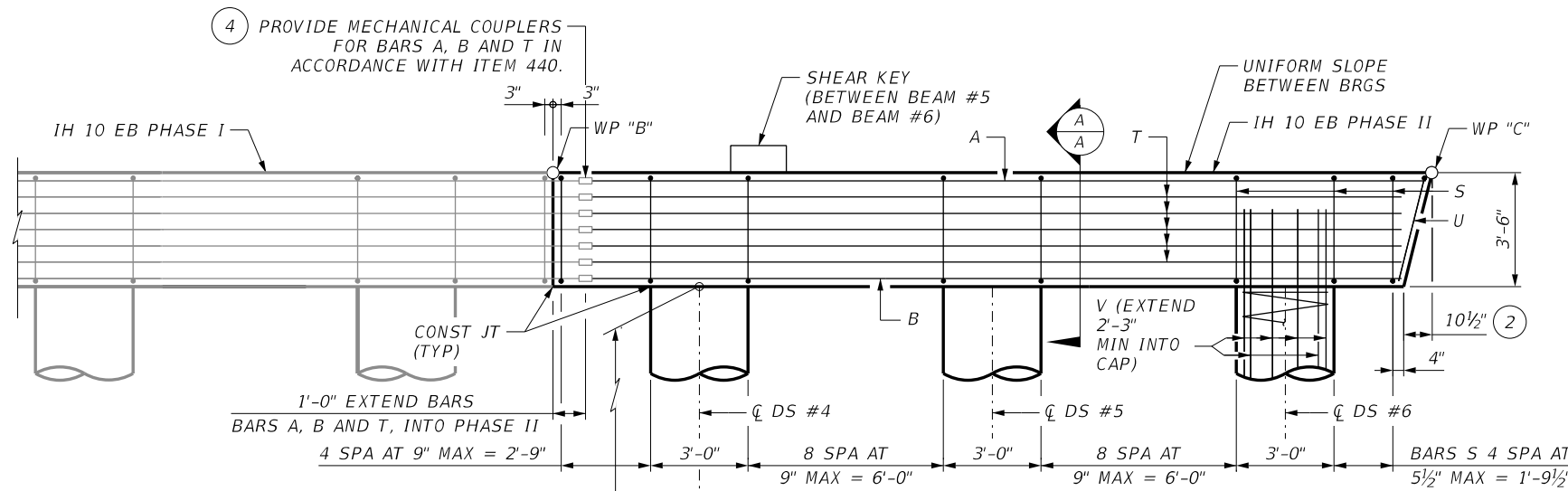
IH 10 WIDENING (NMSL/SPUR 37)
BENT NO. 2 & 3
PHASE I
 ARROYO 48 RELIEF #AA BRIDGE
 IH 10 EB
 (STA 23+62 TO STA 25+42)

SHEET 1 OF 1

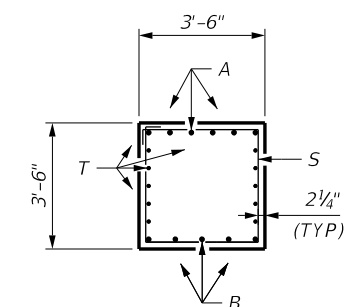
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	531



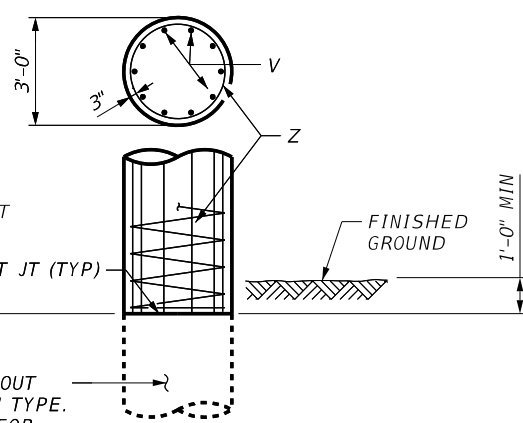
PLAN PHASE II



ELEVATION PHASE II



SECTION A-A

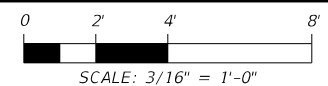


SEE BRIDGE LAYOUT FOR FOUNDATION TYPE. SEE FD SHEET FOR DETAILS.

- GENERAL NOTES**
- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
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 - LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPlicing TO THREADED MECHANICAL COUPLERS.

- KEYED NOTES**
- OMIT DOWELS D AT END OF UNIT. ADJUST REINFORCING STEEL TOTAL ACCORDINGLY.
 - MEASURED PARALLEL TO TOP OF CAP CROSS-SLOPE.
 - PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
 - MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".

HL93 LOADING



Wirat Wanichakorn
4/24/2024

REVISION			
NO.	DATE	REVISION	APPROV.
1	4/24/2024	REVISED PLAN NOTES	

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IH 10 WIDENING (NMSL/SPUR 37)
BENT NO. 2 & 3
PHASE II
ARROYO 48 RELIEF #AA BRIDGE
IH 10 EB
(STA 23+62 TO STA 25+42)

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
ELP	EL PASO	2121	01
			JOB NO.
			104
			SHEET NO.
			532

WORKING POINT ELEVATIONS

WP	ELEV	
	BENT 2	BENT 3
B	3888.662'	3888.931'
C	3888.122'	3888.391'

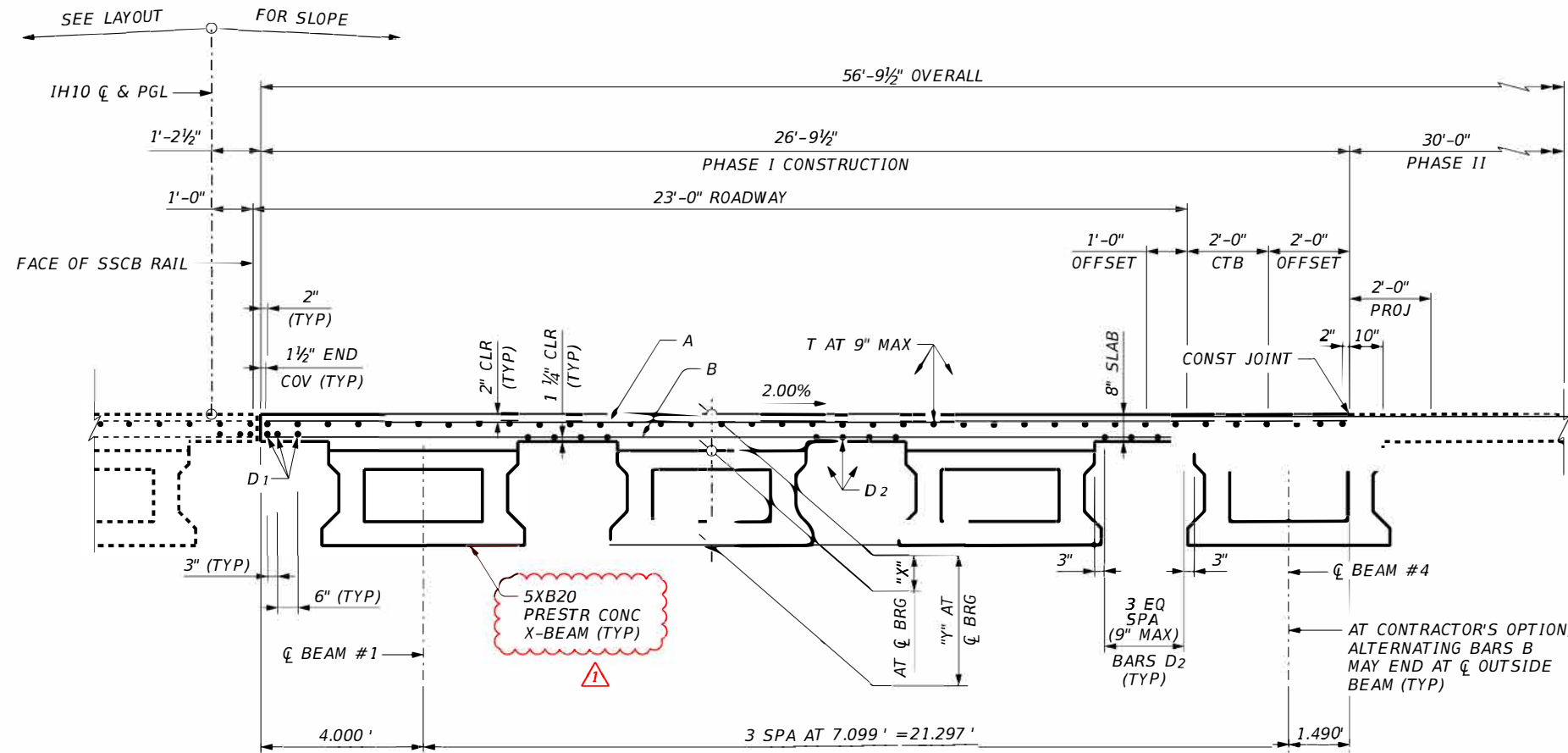
TOP OF COLUMN ELEVATIONS

COL	ELEV	
	BENT 2	BENT 3
4	3885.072'	3885.341'
5	3884.892'	3885.161'
6	3884.712'	3884.981'

BAR TABLE PHASE I

BAR	SIZE
A	#5
B	#5
D1	#5
D2	#5
G	#5
H	#5
J	#5
J	#5
M	#5
K	#5
M	#5
T	#4

GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.



TYPICAL TRANSVERSE SECTION PHASE I

(5XB20) SPANS 1 THRU 3

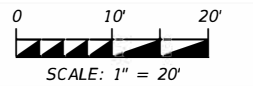
TABLE OF ESTIMATED QUANTITIES PHASE I

SPAN NO.	REINF CONCRETE SLAB SF	5XB20 PRESTR CONCRETE X-BEAMS		CLASS "S" CONCRETE CY	TOTAL REINF STEEL LB
		LF	LB		
1	1,608	238.00	10,449	45.7	10,449
2	2,143	238.00	13,932	60.6	13,932
3	1,608	238.01	10,449	45.7	10,449
TOTAL	5,358	714.01	34,830	152.0	34,830

TABLE OF SECTION DEPTHS FOR PHASE I

SPAN	BEAM NO.	"X"	"Y"
		IN	IN
ALL	1-4	11"	31"

HL93 LOADING



Wirat Wanichakorn 4/24/2024

REVISED 04/24/24

NO.	DATE	REVISION	APPROV.



**IH 10 WIDENING (NMSL/SPUR 37)
PRESTRESSED CONCRETE
X-BEAM (5XB20) UNITS
PHASE I
ARROYO 48 RELIEF #AA BRIDGE
IH 10 EB
(STA 23+62 TO STA 25+42)**

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	536

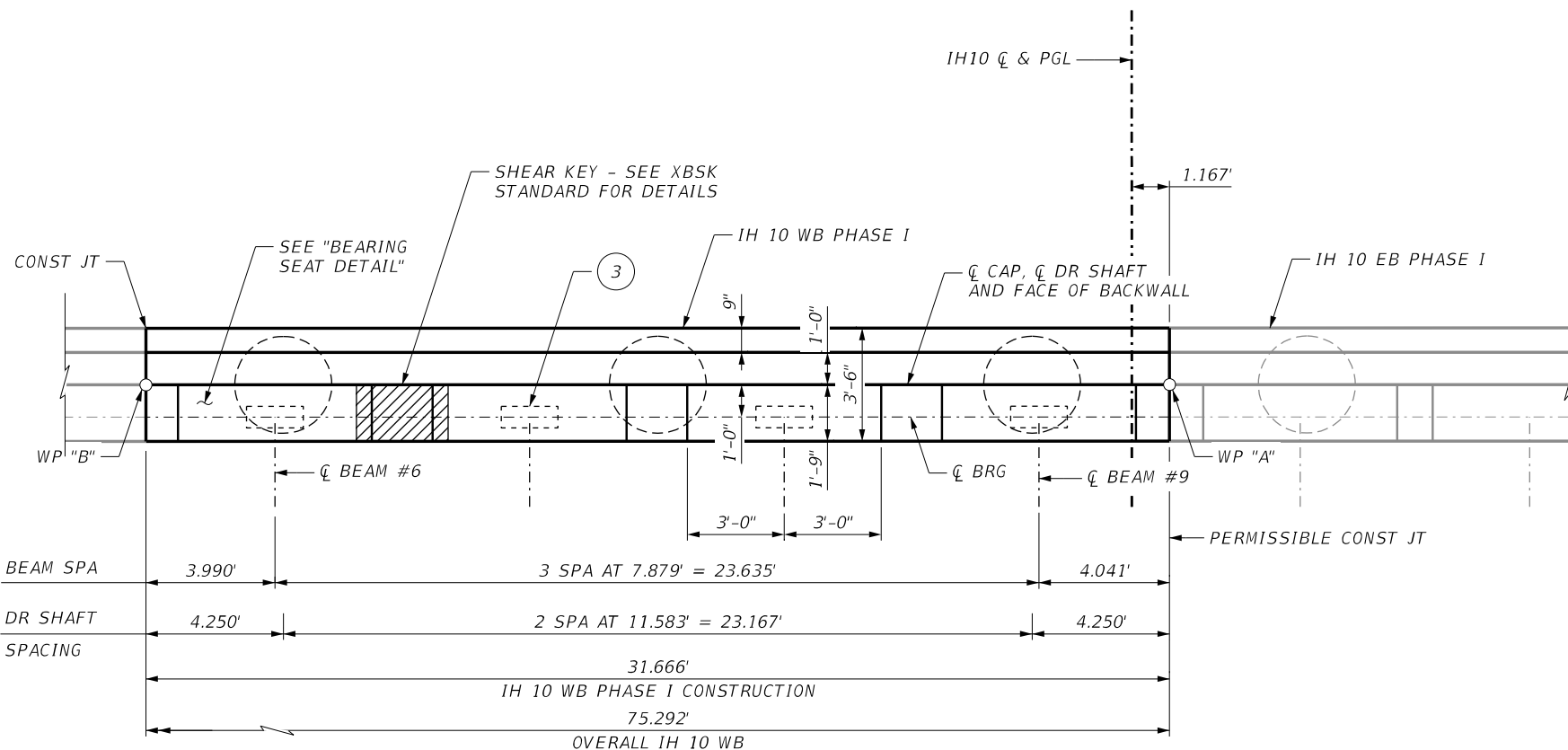
GENERAL NOTES

- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
- CONCRETE STRENGTH $f'_c = 3,600$ PSI.
- ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
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- SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
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- SEE APPLICABLE RAIL DETAILS FOR RAIL ANCHORAGE IN WINGWALLS.
- LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.



KEYED NOTES

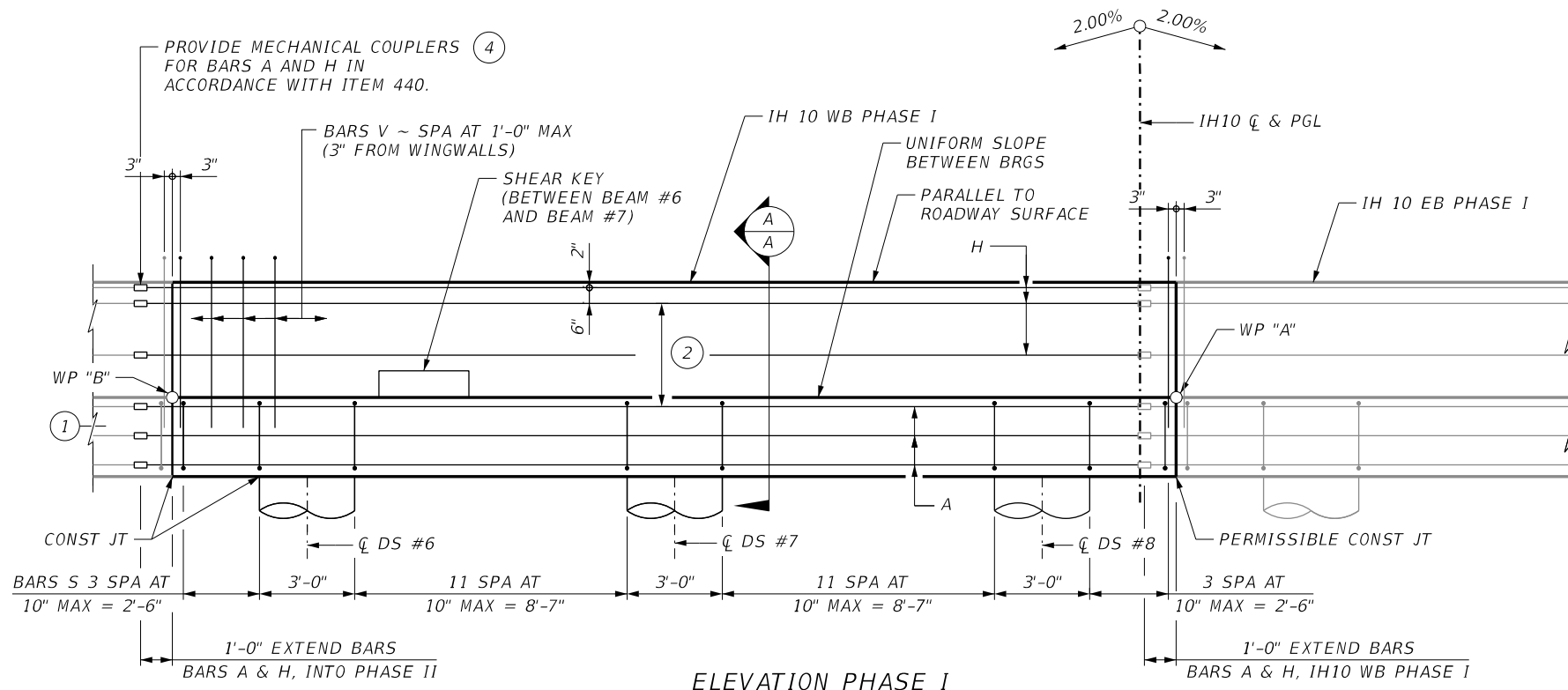
- INCREASE AS REQUIRED TO MAINTAIN $3\frac{3}{4}$ " FROM FINISHED GRADE.
- SPACING BASED ON BEAM TYPE: XB20 ~ 2 EQUAL SPACES
- PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
- MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



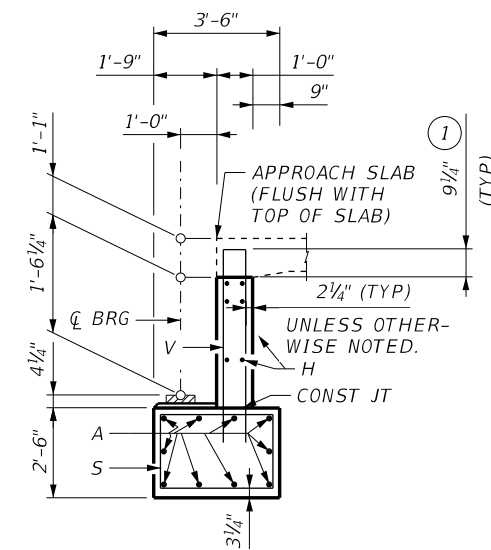
WORKING POINT ELEVATIONS		
WP	ELEV	
	ABUT 1	ABUT 4
A	3889.195'	3890.005'
B	3888.561'	3889.371'

TOP OF DS ELEVATIONS		
DS	ELEV	
	ABUT 1	ABUT 4
6	3886.146'	3886.956'
7	3886.378'	3887.188'
8	3886.610'	3887.420'

PLAN PHASE I

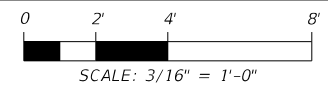


ELEVATION PHASE I



SECTION A-A

HL93 LOADING



Wirat Wanichakorn
4/24/2024

REVISED PLAN NOTES			
NO.	DATE	REVISION	APPROV.

CivilCorp
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2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

Texas Department of Transportation

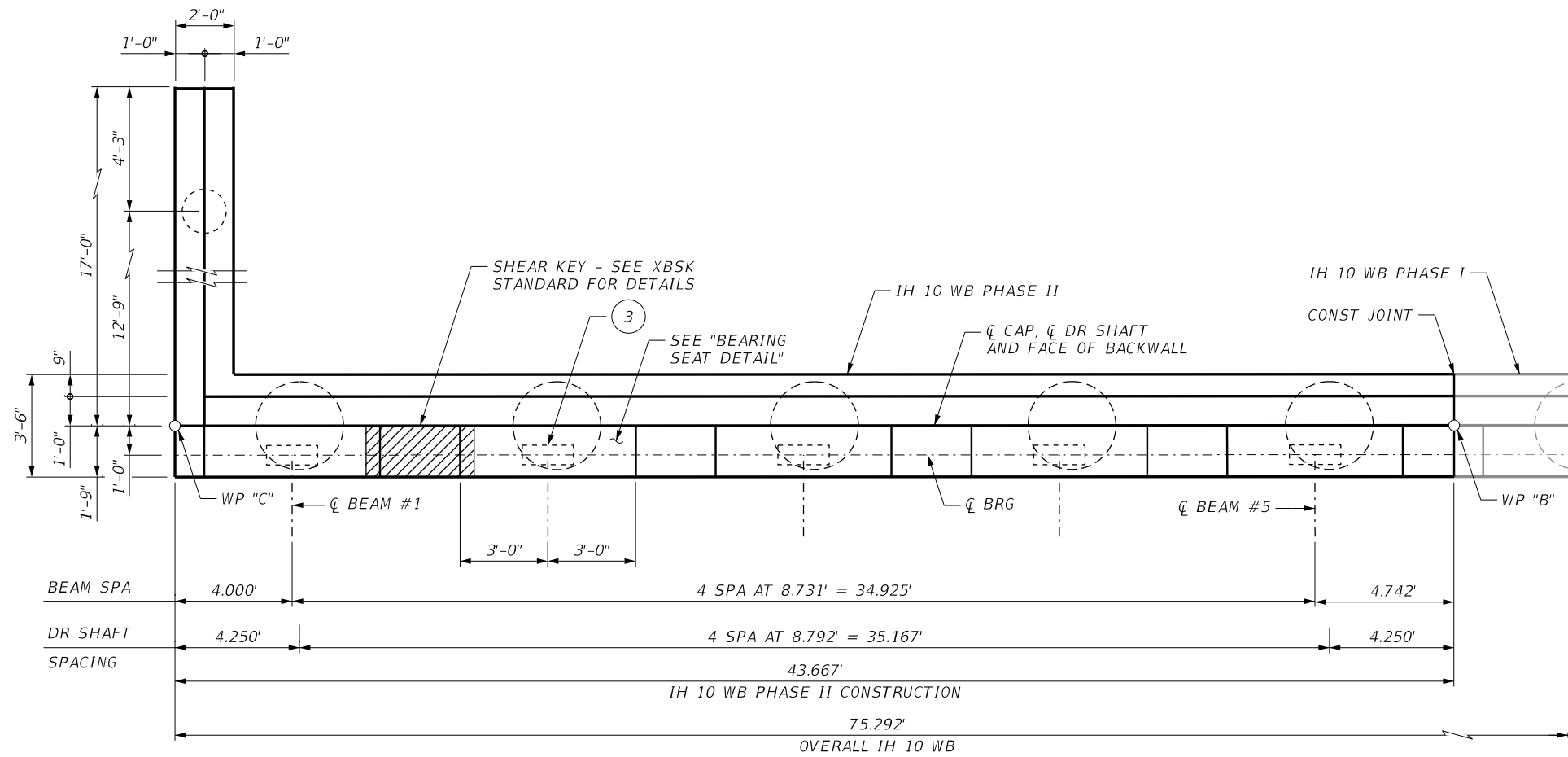
**IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 4
PHASE I
ARROYO 48 RELIEF #AB BRIDGE
IH 10 WB
(STA 23+62 TO STA 25+42)**

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
ELP	EL PASO	2121	01
		JOB NO.	SHEET NO.
		104	546

GENERAL NOTES

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- CONCRETE STRENGTH $f'_c = 3,600$ PSI.
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- SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
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- LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.



PLAN PHASE II

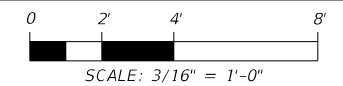
WORKING POINT ELEVATIONS		
WP	ELEV	
	ABUT 1	ABUT 4
B	3888.561'	3889.371'
C	3887.688'	3888.498'

TOP OF DS ELEVATIONS		
DS	ELEV	
	ABUT 1	ABUT 4
WW	3885.208'	3886.018'
1	3885.273'	3886.083'
2	3885.449'	3886.259'
3	3885.624'	3886.434'
4	3885.800'	3886.610'
5	3885.976'	3886.786'

KEYED NOTES

- INCREASE AS REQUIRED TO MAINTAIN $3\frac{3}{4}$ " FROM FINISHED GRADE.
- SPACING BASED ON BEAM TYPE: XB20 ~ 2 EQUAL SPACES
- PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
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HL93 LOADING



Wirat Wanichakorn
4/24/2024

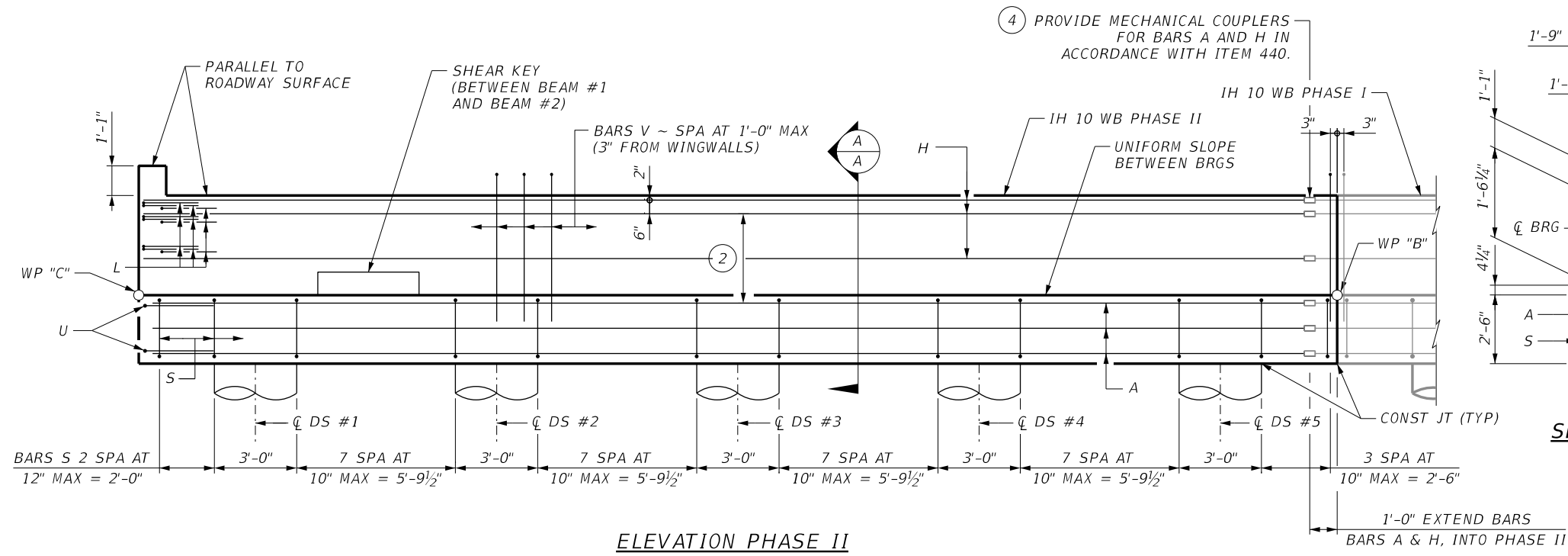
#24/2024 REVISED PLAN NOTES			
NO.	DATE	REVISION	APPROV.

CivilCorp
ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

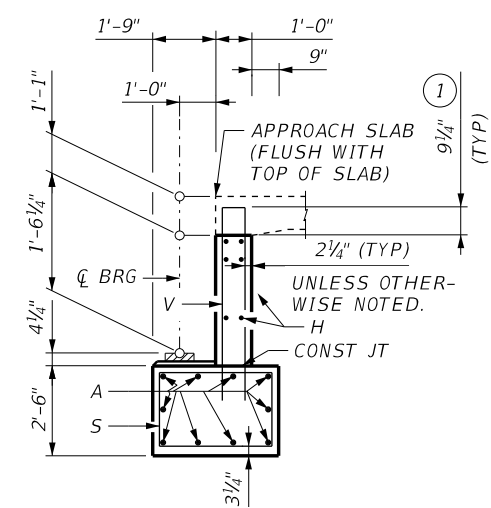
Texas Department of Transportation

**IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 4
PHASE II
ARROYO 48 RELIEF #AB BRIDGE
IH 10 WB
(STA 23+62 TO STA 25+42)**

SHEET 1 OF 1					
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT		HIGHWAY NO.	
6	TEXAS	SEE TITLE SHEET		IH 10	
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	547



ELEVATION PHASE II

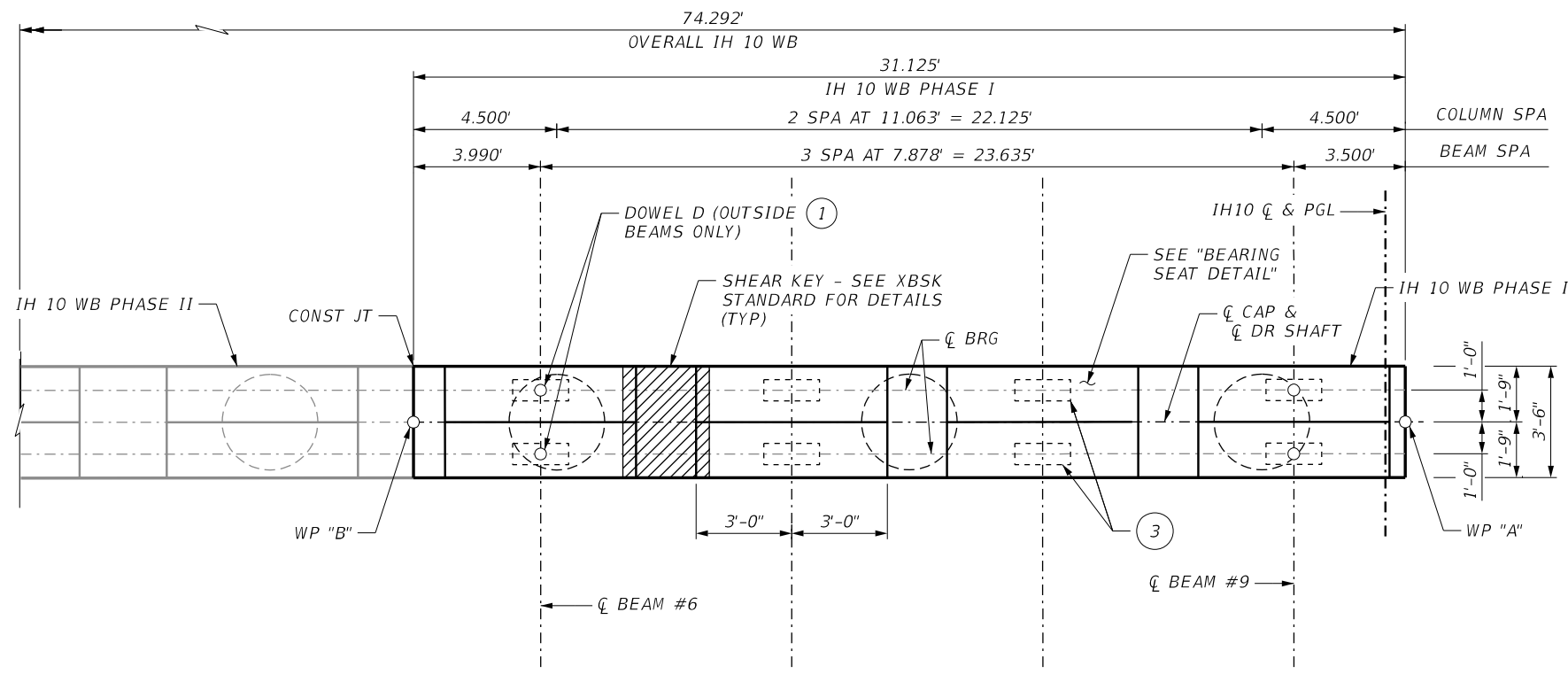


SECTION A-A

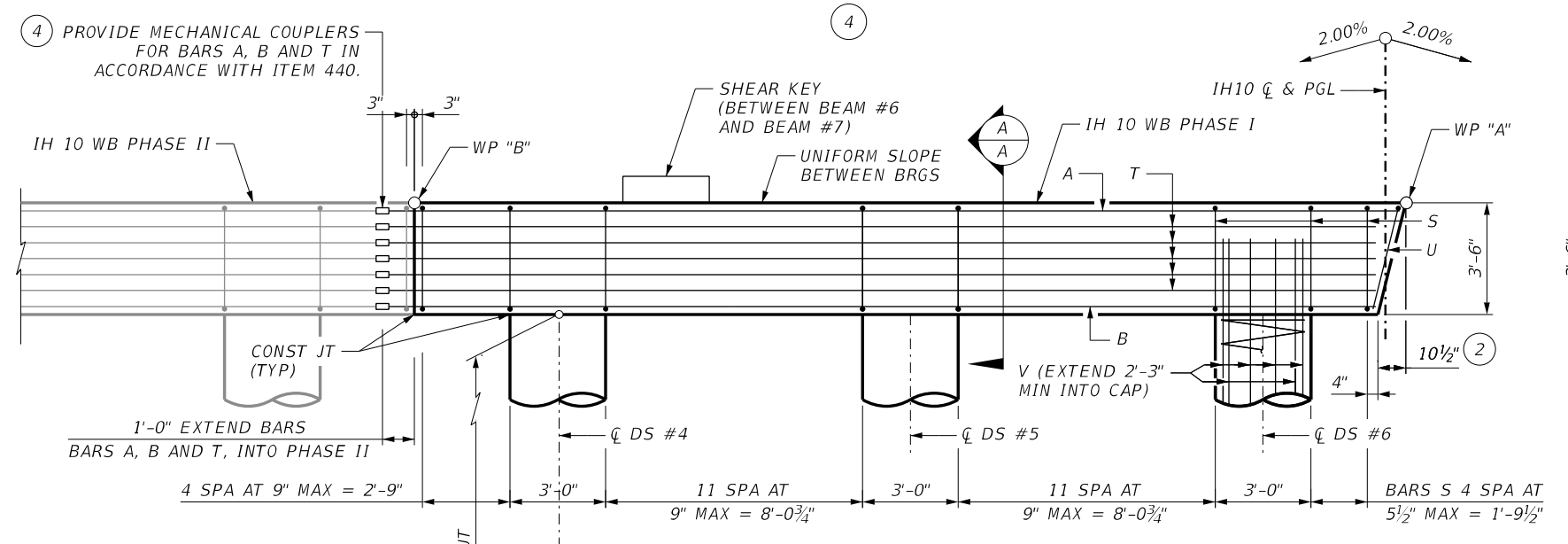
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4/24/2024

4/24/2024 4:09:42 PM

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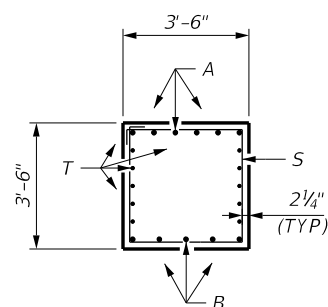
PLAN PHASE I



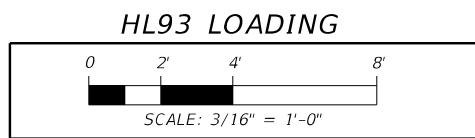
ELEVATION PHASE I

- GENERAL NOTES**
- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 - CONCRETE STRENGTH $f'_c = 3,600$ PSI.
 - ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
 - SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
 - SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
 - SEE CONCRETE RIPRAP STANDARD SHEET, CRR, FOR RIPRAP ATTACHMENT DETAILS.
 - SEE APPLICABLE RAIL DETAILS FOR RAIL ANCHORAGE IN WINGWALLS.
 - LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.

- KEYED NOTES**
- OMIT DOWELS D AT END OF UNIT. ADJUST REINFORCING STEEL TOTAL ACCORDINGLY.
 - MEASURED PARALLEL TO TOP OF CAP CROSS-SLOPE.
 - PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
 - MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



SECTION A-A



4/24/2024

NO.	DATE	REVISION	APPROV.
1	4/24/2024	REVISED PLAN NOTES	

CivilCorp
ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

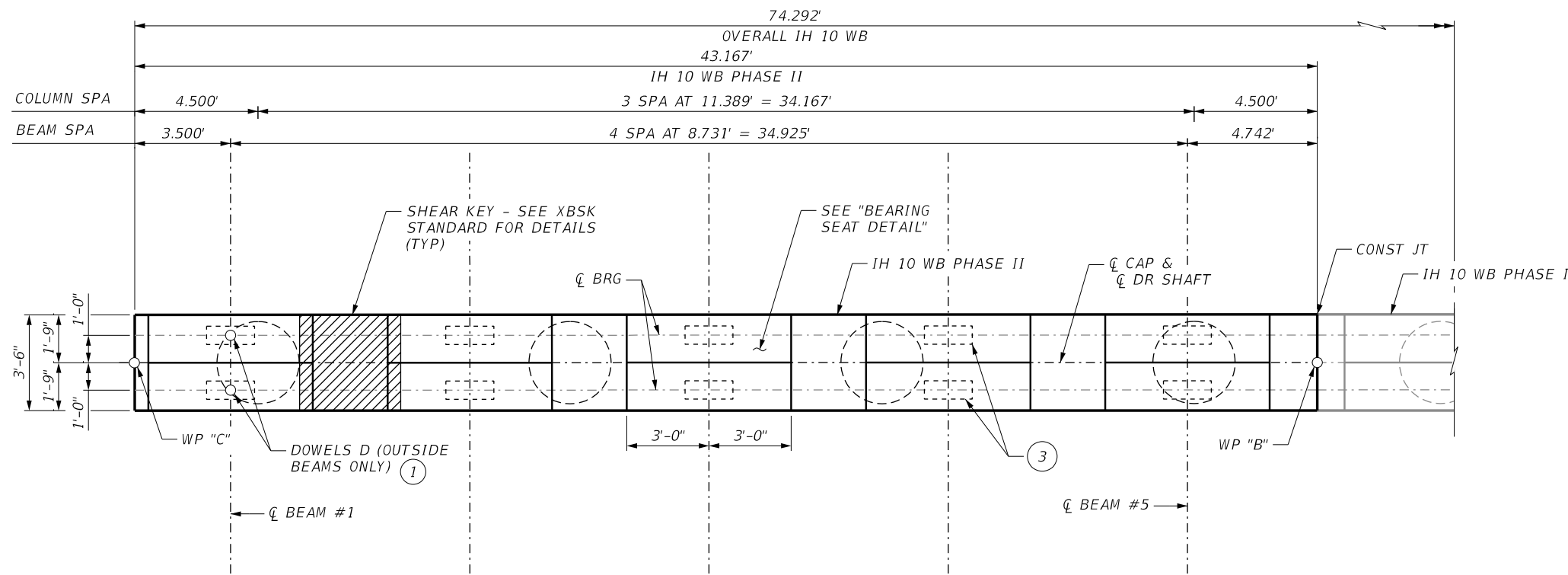


IH 10 WIDENING (NMSL/SPUR 37)
BENT NO. 2 & 3
PHASE I
ARROYO 48 RELIEF #AB BRIDGE
IH 10 WB
(STA 23+62 TO STA 25+42)

SHEET 1 OF 1

WP	ELEV	
	BENT 2	BENT 3
A	3889.264'	3889.533'
B	3888.642'	3888.911'

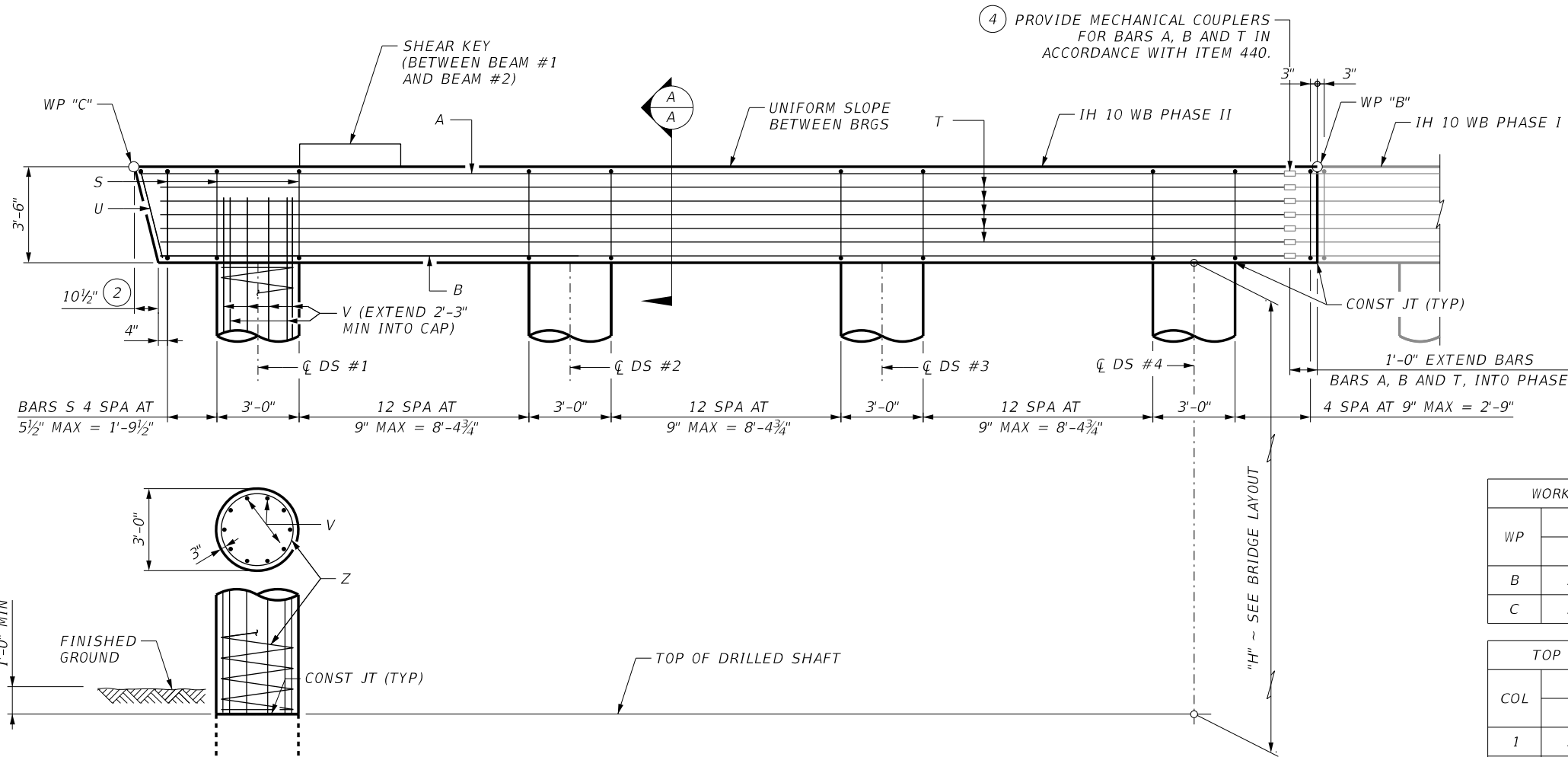
COL	ELEV	
	BENT 2	BENT 3
5	3885.232'	3885.501'
6	3885.453'	3885.722'
7	3885.674'	3885.943'



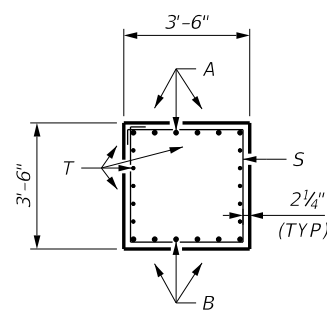
PLAN PHASE II

- GENERAL NOTES**
- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 - CONCRETE STRENGTH $f'_c = 3,600$ PSI.
 - ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
 - SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
 - SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
 - SEE CONCRETE RIPRAP STANDARD SHEET, CRR, FOR RIPRAP ATTACHMENT DETAILS.
 - SEE APPLICABLE RAIL DETAILS FOR RAIL ANCHORAGE IN WINGWALLS.
 - LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.

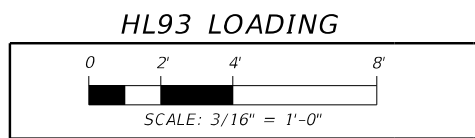
- KEYED NOTES**
- OMIT DOWELS D AT END OF UNIT. ADJUST REINFORCING STEEL TOTAL ACCORDINGLY.
 - MEASURED PARALLEL TO TOP OF CAP CROSS-SLOPE.
 - PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
 - MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



ELEVATION PHASE II



SECTION A-A



STATE OF TEXAS
 WIRAT WANICHAKORN
 96609
 LICENSED
 PROFESSIONAL ENGINEER

Wirat Wanichakorn 4/24/2024

REVISIONS

NO.	DATE	REVISION	APPROV.
1	4/24/2024	REVISED PLAN NOTES	

CivilCorp
 ENGINEERS • SURVEYORS
 2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
 TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

Texas Department of Transportation

IH 10 WIDENING (NMSL/SPUR 37)
 BENT NO. 2 & 3
 PHASE II
 ARROYO 48 RELIEF #AB BRIDGE
 IH 10 WB
 (STA 23+62 TO STA 25+42)

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10

STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	550

WORKING POINT ELEVATIONS

WP	ELEV	
	BENT 2	BENT 3
B	3888.642'	3888.911'
C	3887.778'	3888.047'

TOP OF COLUMN ELEVATIONS

COL	ELEV	
	BENT 2	BENT 3
1	3884.368'	3884.637'
2	3884.596'	3884.865'
3	3884.824'	3885.093'
4	3885.052'	3885.321'

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4/25/2024 9:27:37 AM

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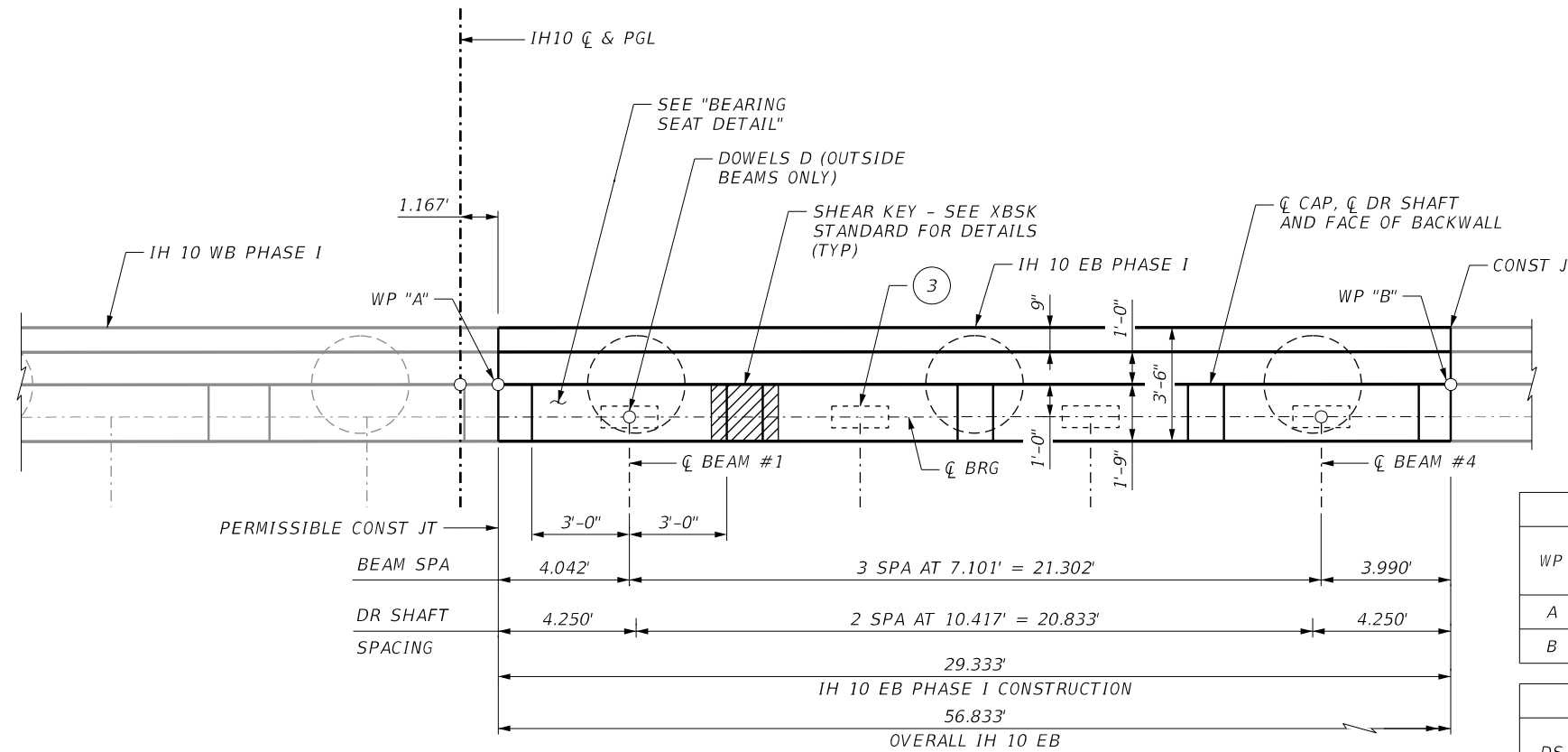
GENERAL NOTES

- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
- CONCRETE STRENGTH F'C = 3,600 PSI.
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KEYED NOTES

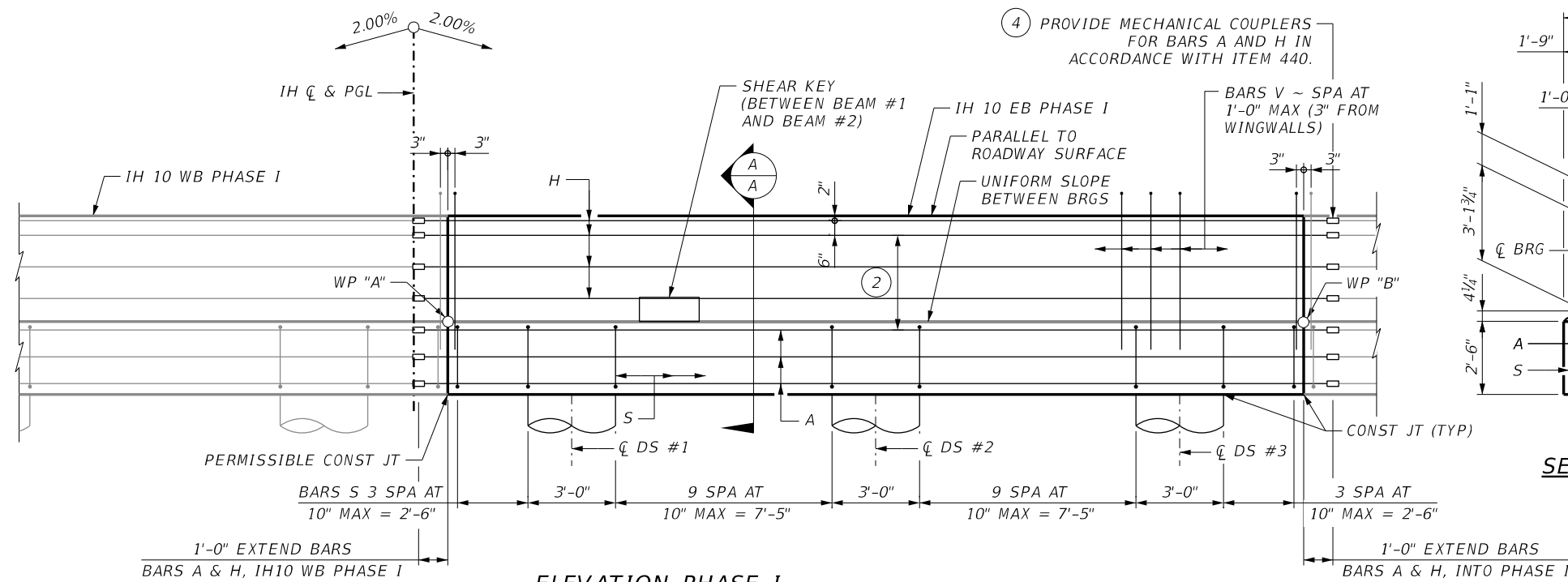
- INCREASE AS REQUIRED TO MAINTAIN 3 3/4" FROM FINISHED GRADE.
- SPACING BASED ON BEAM TYPE: XB40 ~ 3 EQUAL SPACES
- PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
- MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



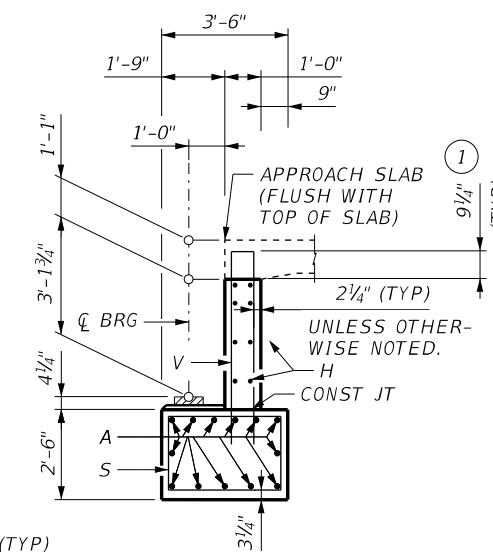
PLAN PHASE I

WORKING POINT ELEVATIONS		
WP	ELEV	
	ABUT 1	ABUT 2
A	3910.355'	3909.996'
B	3909.769'	3909.409'

TOP OF DS ELEVATIONS		
DS	ELEV	
	ABUT 1	ABUT 2
1	3907.770'	3907.411'
2	3907.562'	3907.203'
3	3907.354'	3906.994'

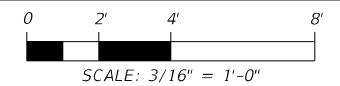


ELEVATION PHASE I



SECTION A-A

HL93 LOADING



Wirat Wanichakorn
4/24/2024

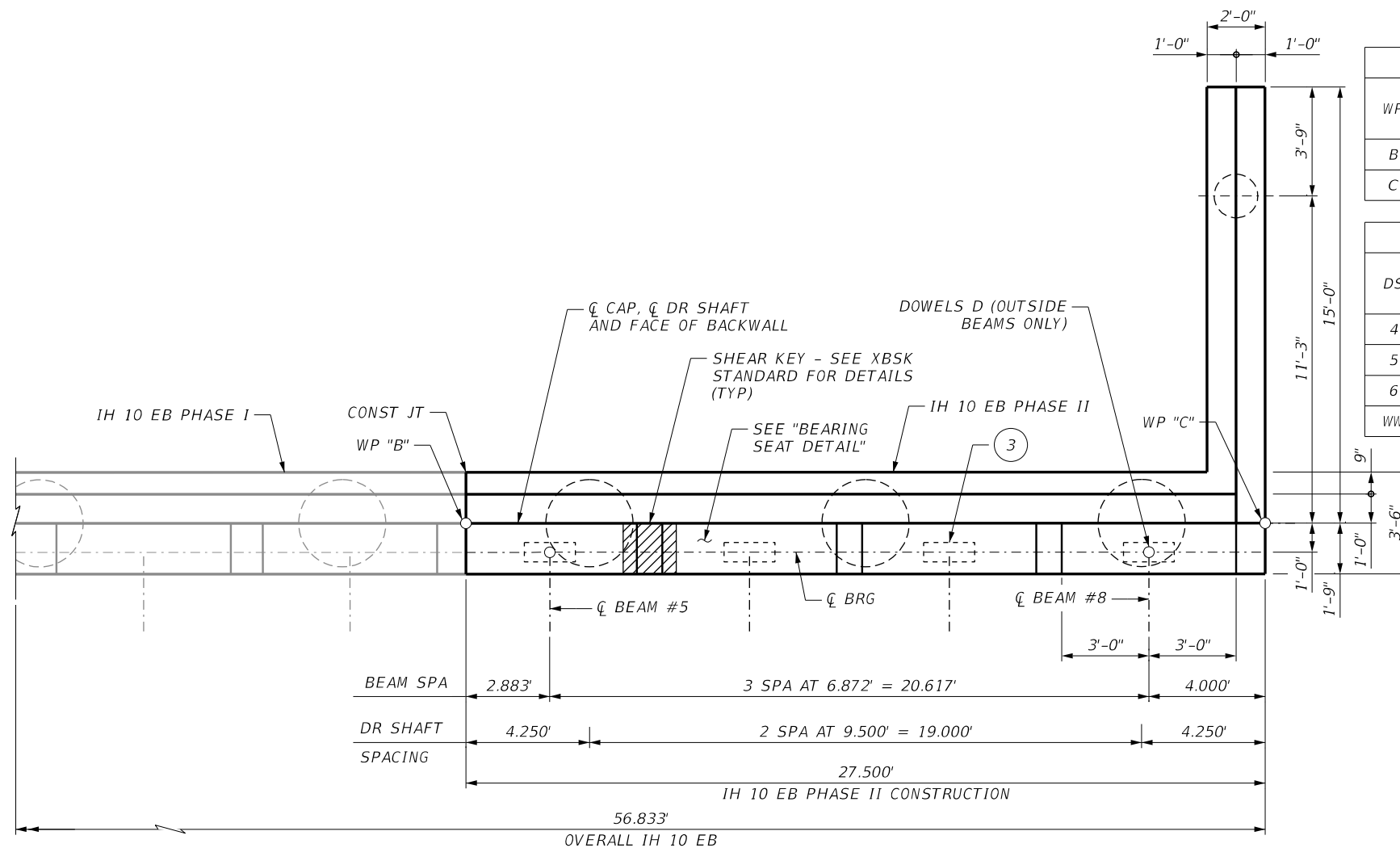
REVISED PLAN NOTES



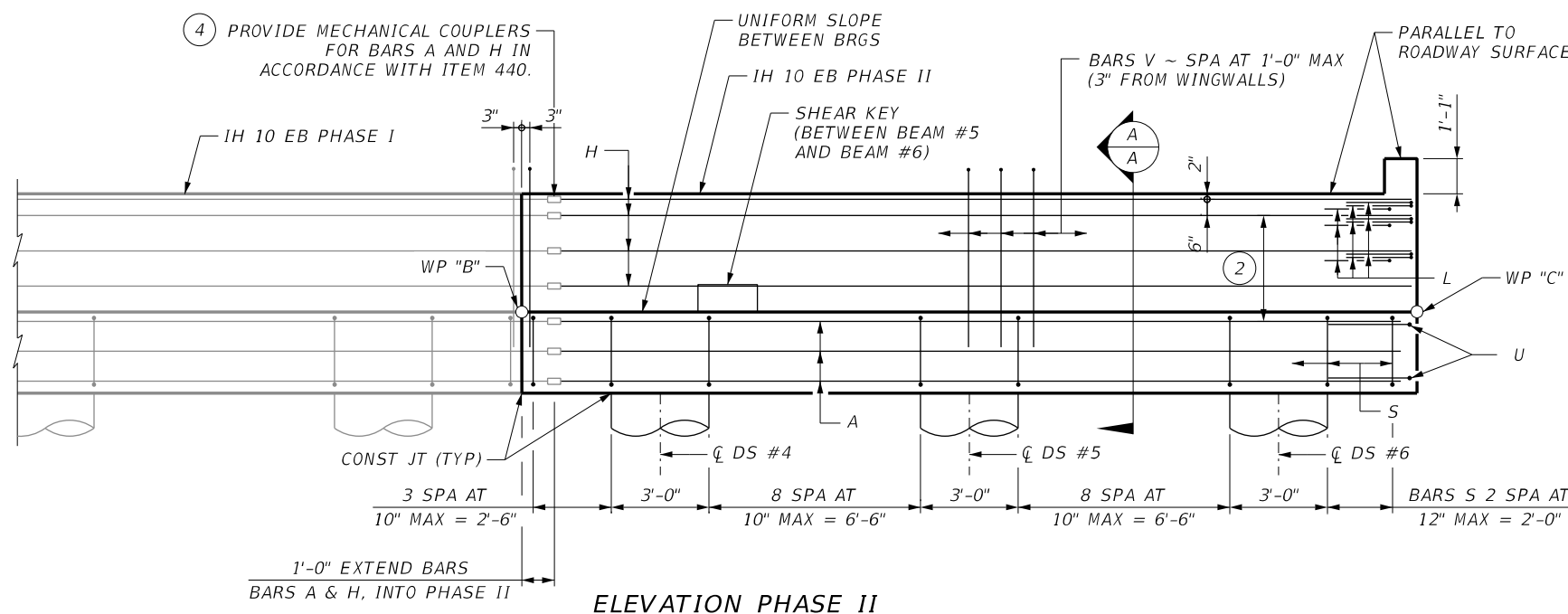
**IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 2
PHASE I
ARROYO 47 RELIEF #BA BRIDGE
IH 10 EB
(STA 54+06 TO STA 55+06)**

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	564



PLAN PHASE II



ELEVATION PHASE II

WORKING POINT ELEVATIONS		
WP	ELEV	
	ABUT 1	ABUT 2
B	3909.769'	3909.409'
C	3909.219'	3908.859'

TOP OF DS ELEVATIONS		
DS	ELEV	
	ABUT 1	ABUT 2
4	3907.184'	3906.824'
5	3906.994'	3906.634'
6	3906.804'	3906.444'
WW	3906.739'	3906.379'

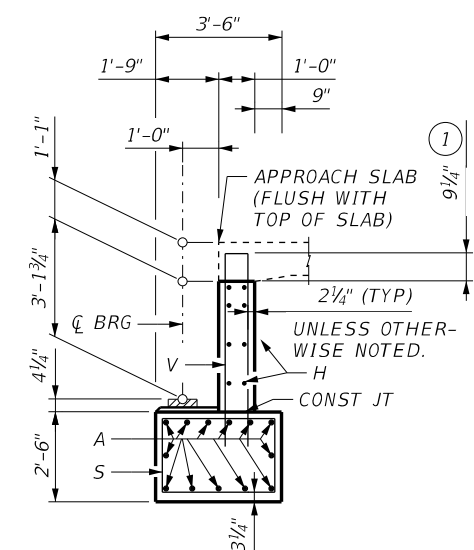
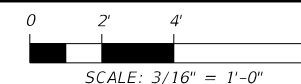
GENERAL NOTES

- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
- CONCRETE STRENGTH F'C = 3,600 PSI.
- ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
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- SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
- SEE CONCRETE RIPRAP STANDARD SHEET, CRR, FOR RIPRAP ATTACHMENT DETAILS.
- SEE APPLICABLE RAIL DETAILS FOR RAIL ANCHORAGE IN WINGWALLS.
- LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.

KEYED NOTES

- INCREASE AS REQUIRED TO MAINTAIN 3 3/4" FROM FINISHED GRADE.
- SPACING BASED ON BEAM TYPE:
XB40 ~ 3 EQUAL SPACES
- PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
- MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".

HL93 LOADING



**SECTION A-A
(WITH APPROACH SLAB)**



Wirat Wanichakorn 4/24/2024

#24/2024 REVISED PLAN NOTES			
NO.	DATE	REVISION	APPROV.

CivilCorp
ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283



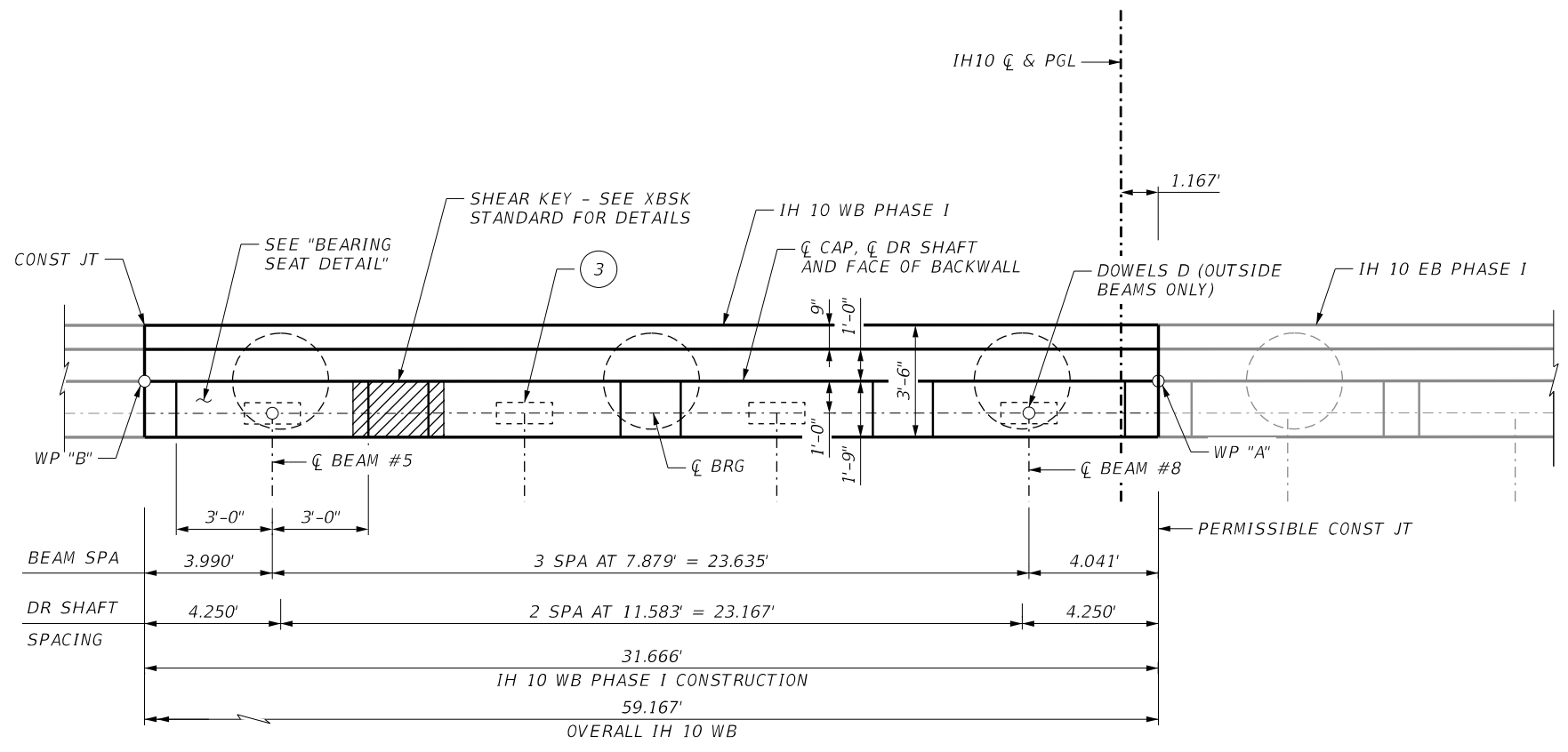
**IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 2
PHASE II
ARROYO 47 RELIEF #BA BRIDGE
IH 10 EB
(STA 54+06 TO STA 55+06)**

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
ELP	EL PASO	2121	01
			JOB NO.
			104
			SHEET NO.
			565

- GENERAL NOTES**
- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 - CONCRETE STRENGTH $f'_c = 3,600$ PSI.
 - ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
 - SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
 - SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
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 - LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.

- KEYED NOTES**
- INCREASE AS REQUIRED TO MAINTAIN $3\frac{3}{4}$ " FROM FINISHED GRADE.
 - SPACING BASED ON BEAM TYPE: XB40 ~ 3 EQUAL SPACES
 - PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
 - MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



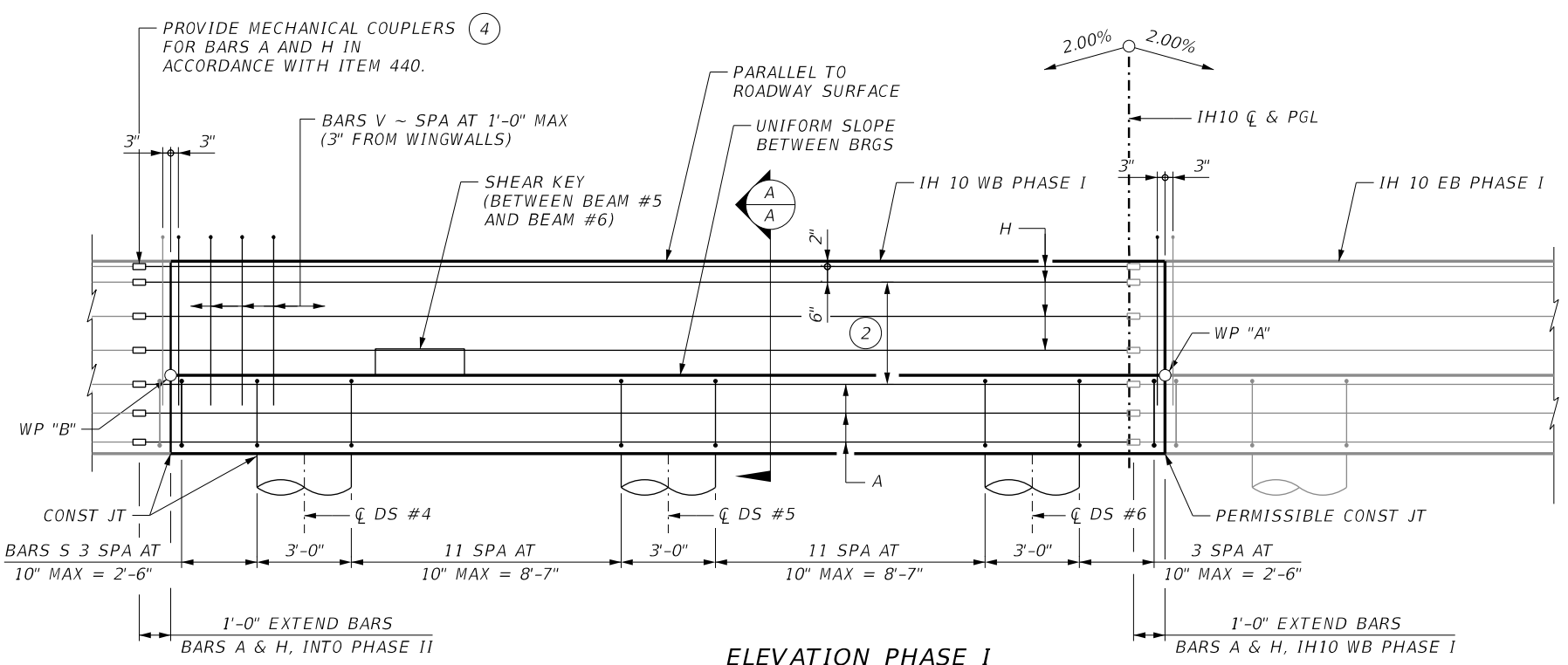
PLAN PHASE I

WORKING POINT ELEVATIONS

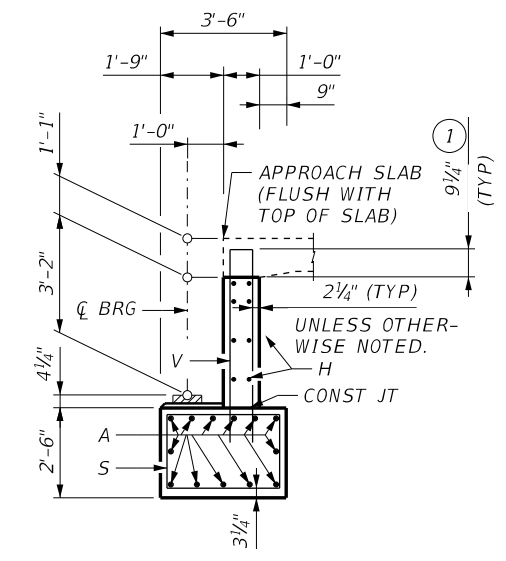
WP	ELEV	
	ABUT 1	ABUT 2
A	3910.381'	3910.022'
B	3909.748'	3909.388'

TOP OF DS ELEVATIONS

DS	ELEV	
	ABUT 1	ABUT 2
4	3907.333'	3906.973'
5	3907.565'	3907.205'
6	3907.796'	3907.437'

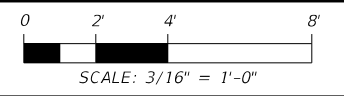


ELEVATION PHASE I



SECTION A-A

HL93 LOADING



Wirat Wanichakorn
4/24/2024

REVISED PLAN NOTES

NO.	DATE	REVISION	APPROV.

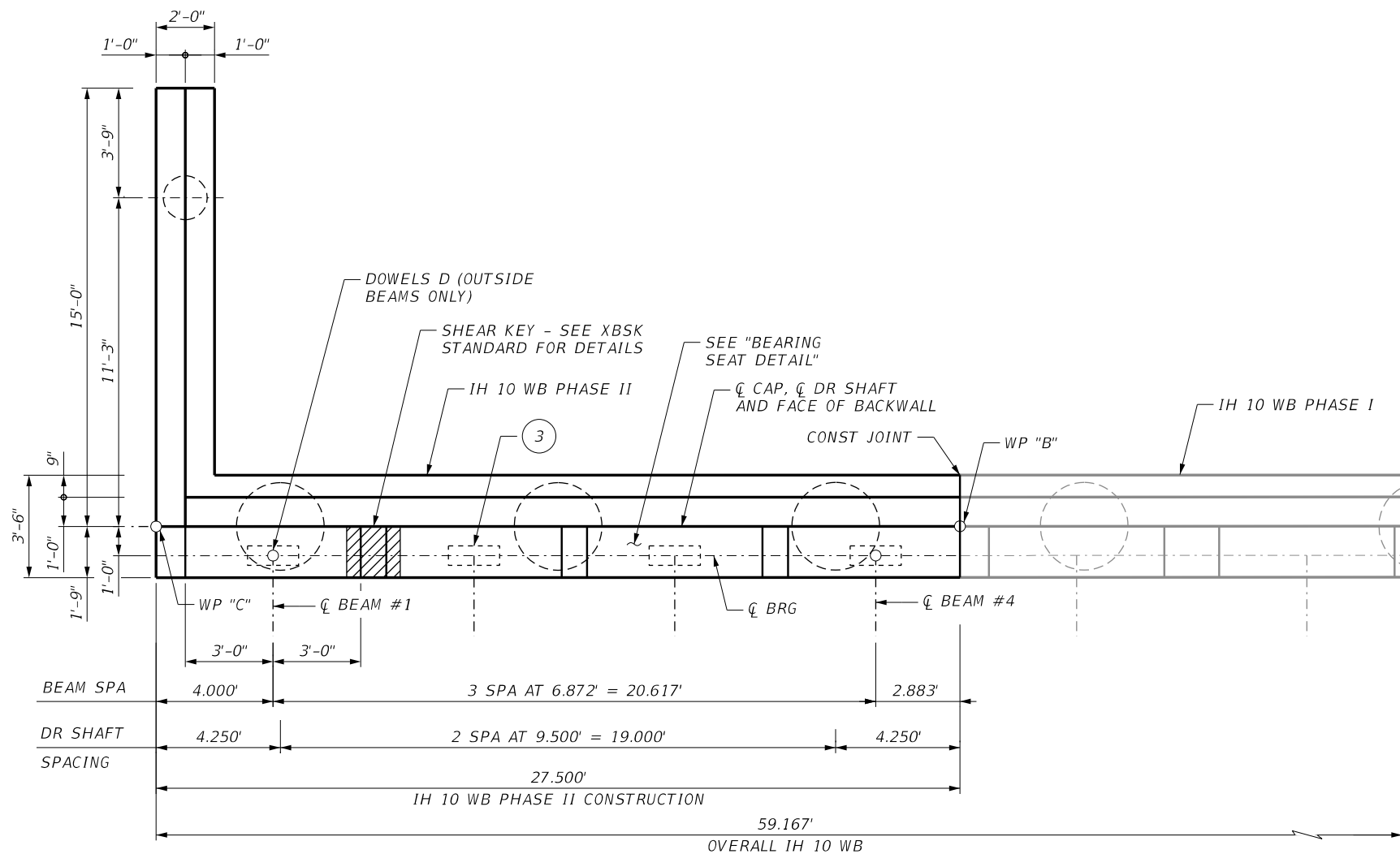
CivilCorp
ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

Texas Department of Transportation

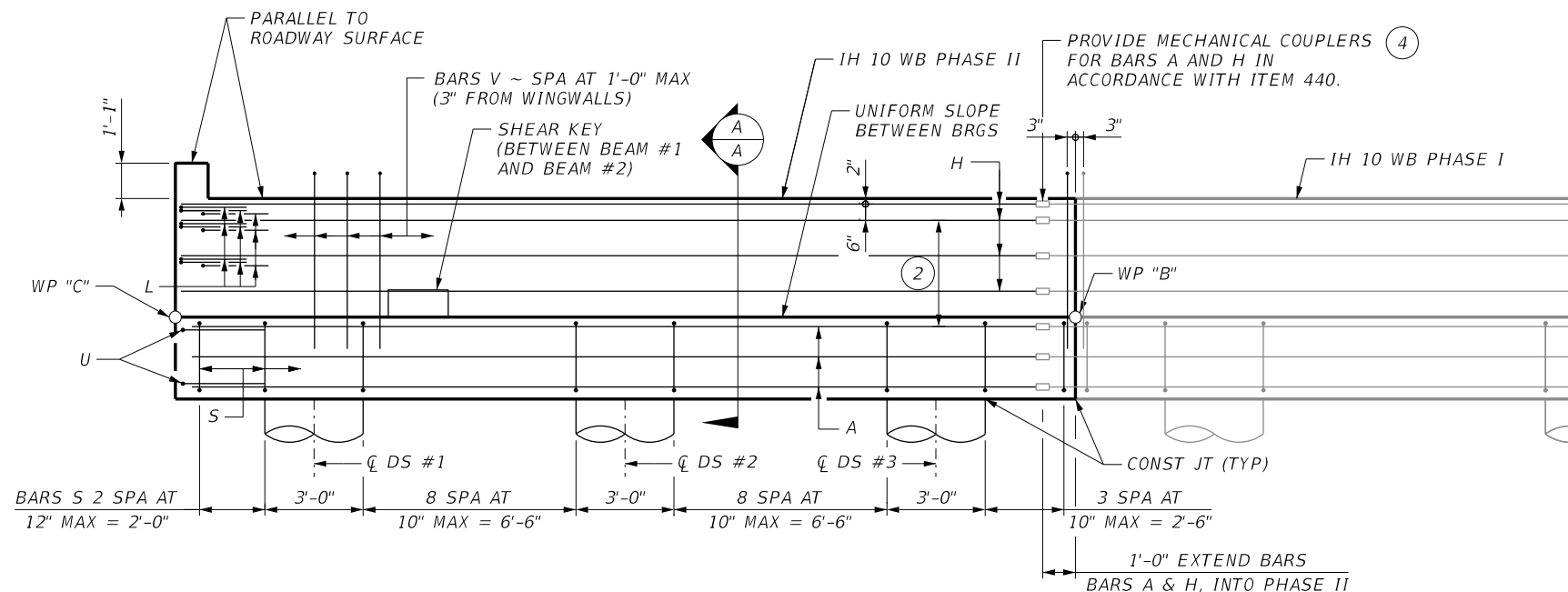
**IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 2
PHASE I
ARROYO 47 RELIEF #BB BRIDGE
IH 10 WB
(STA 54+06 TO STA 55+06)**

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	579



PLAN PHASE II



ELEVATION PHASE II

PHASE 2		
WORKING POINT ELEVATIONS		
WP	ELEV	
	ABUT 1	ABUT 2
B	3909.748'	3909.388'
C	3909.198'	3908.838'

TOP OF DS ELEVATIONS		
DS	ELEV	
	ABUT 1	ABUT 2
WW	3906.718'	3906.358'
1	3906.783'	3906.423'
2	3906.973'	3906.613'
3	3907.163'	3906.803'

GENERAL NOTES

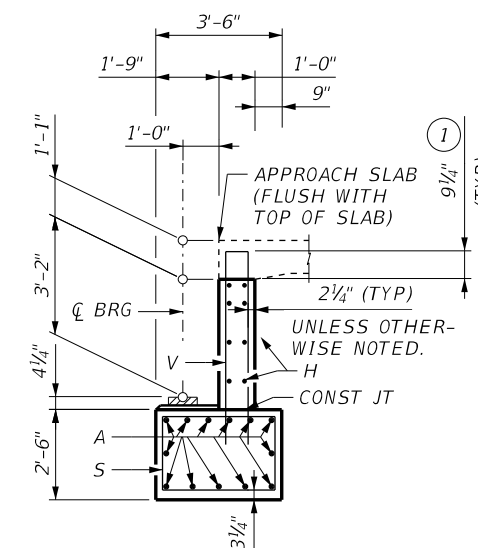
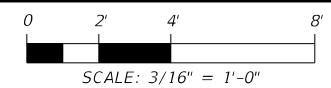
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KEYED NOTES

- INCREASE AS REQUIRED TO MAINTAIN $3\frac{3}{4}$ " FROM FINISHED GRADE.
- SPACING BASED ON BEAM TYPE:
XB40 ~ 3 EQUAL SPACES
- PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
- MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



HL93 LOADING



SECTION A-A



Wirat Wanichakorn
4/24/2024

NO.	DATE	REVISION	APPROV.
1	4/24/2024	REVISED PLAN NOTES	

CivilCorp
ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

Texas Department of Transportation

IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 2
PHASE II
ARROYO 47 RELIEF #BB BRIDGE
IH 10 WB
(STA 54+06 TO STA 55+06)

SHEET 1 OF 1		FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	580

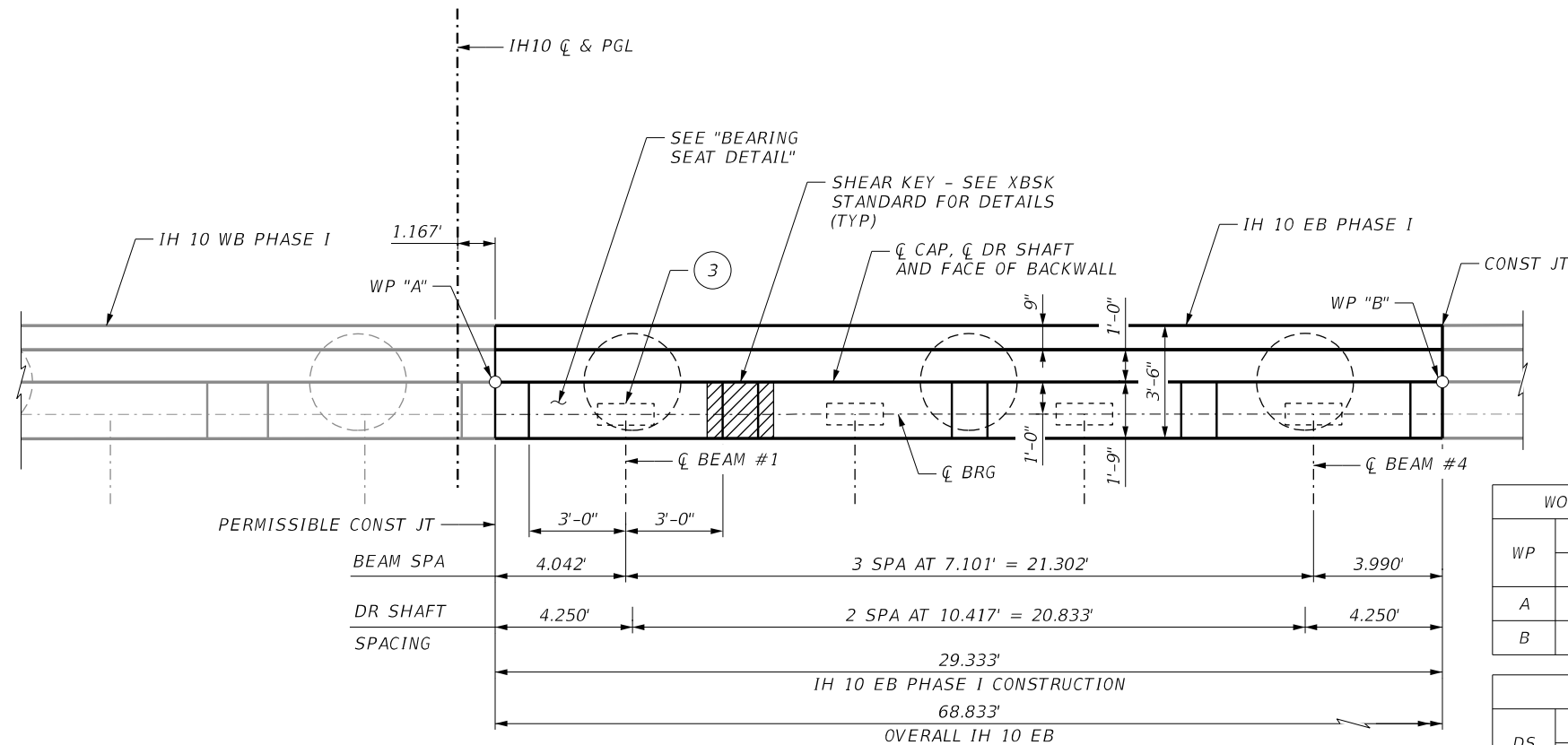
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KEYED NOTES

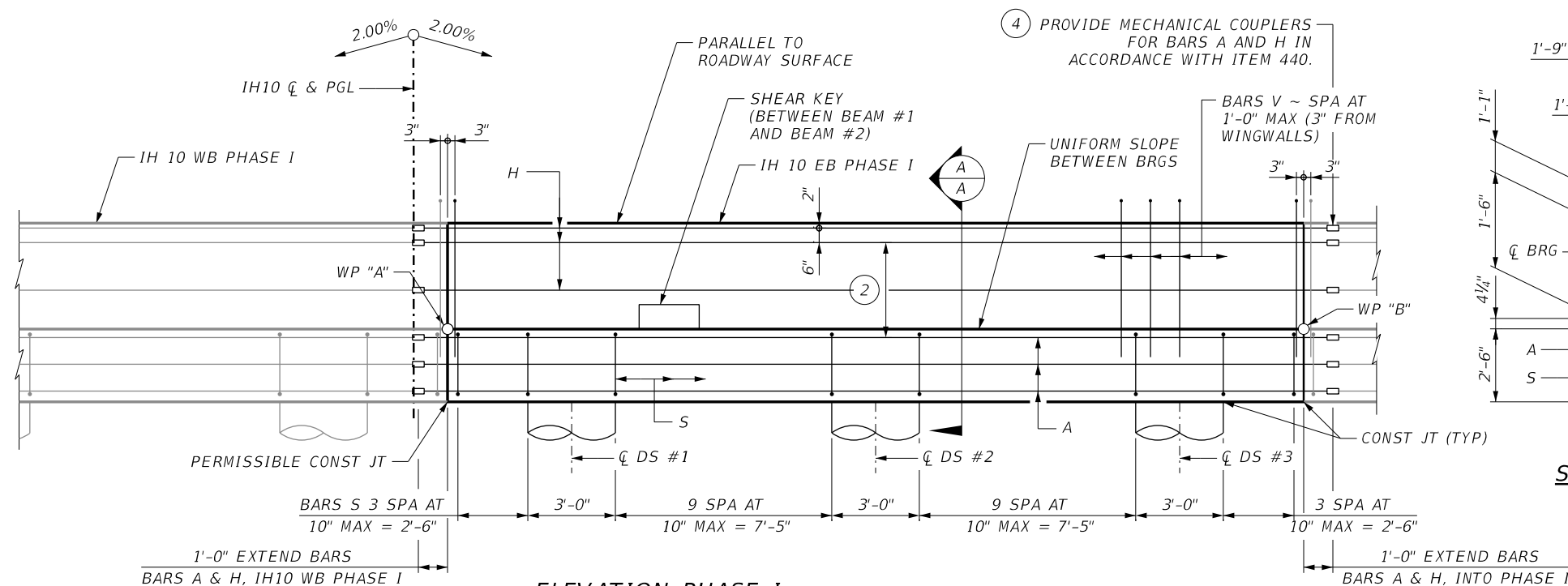
- INCREASE AS REQUIRED TO MAINTAIN $3\frac{3}{4}$ " FROM FINISHED GRADE.
- SPACING BASED ON BEAM TYPE: XB20 ~ 2 EQUAL SPACES
- PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBB STANDARD FOR DETAILS.
- MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



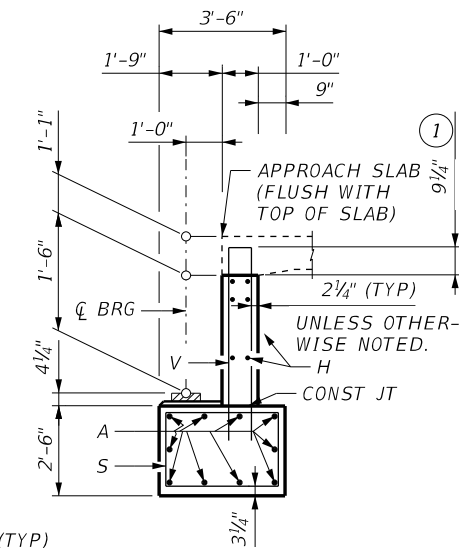
PLAN PHASE I

WORKING POINT ELEVATIONS		
WP	ELEV	
	ABUT 1	ABUT 4
A	3911.305'	3910.390'
B	3910.719'	3909.803'

TOP OF DS ELEVATIONS		
DS	ELEV	
	ABUT 1	ABUT 4
1	3908.720'	3907.805'
2	3908.512'	3907.596'
3	3908.304'	3907.388'

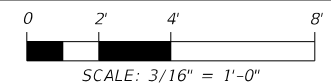


ELEVATION PHASE I



SECTION A-A

HL93 LOADING



Wirat Wanichakorn
4/24/2024

REVISION NOTES

NO.	DATE	REVISION	APPROV.
1	4/24/2024	REVISED PLAN NOTES	

CivilCorp
ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

Texas Department of Transportation

**IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 4
PHASE I
DRAIN & TURNAROUND #CA BRIDGE
IH 10 EB
(STA 88+85 TO STA 90+65)**

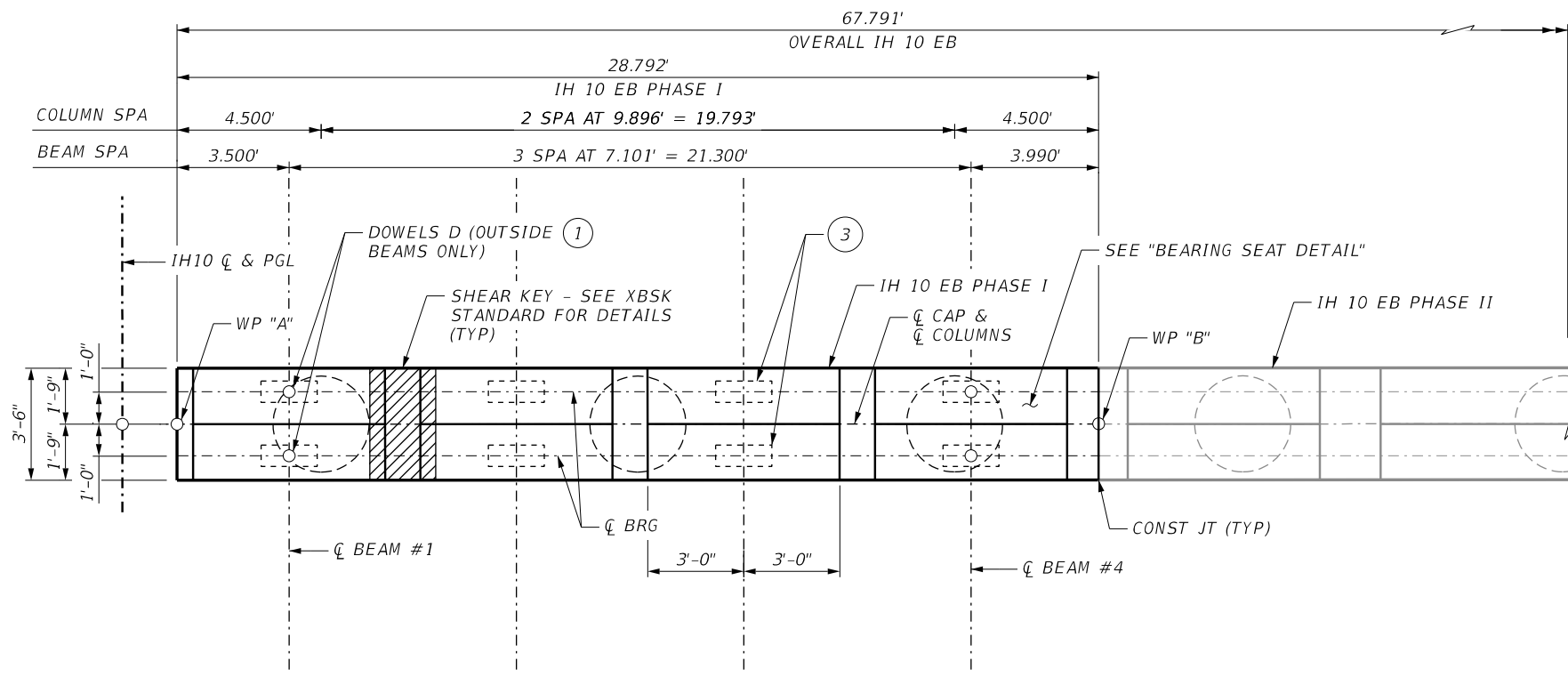
SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
ELP	EL PASO	2121	01
JOB NO.	SHEET NO.	104	594

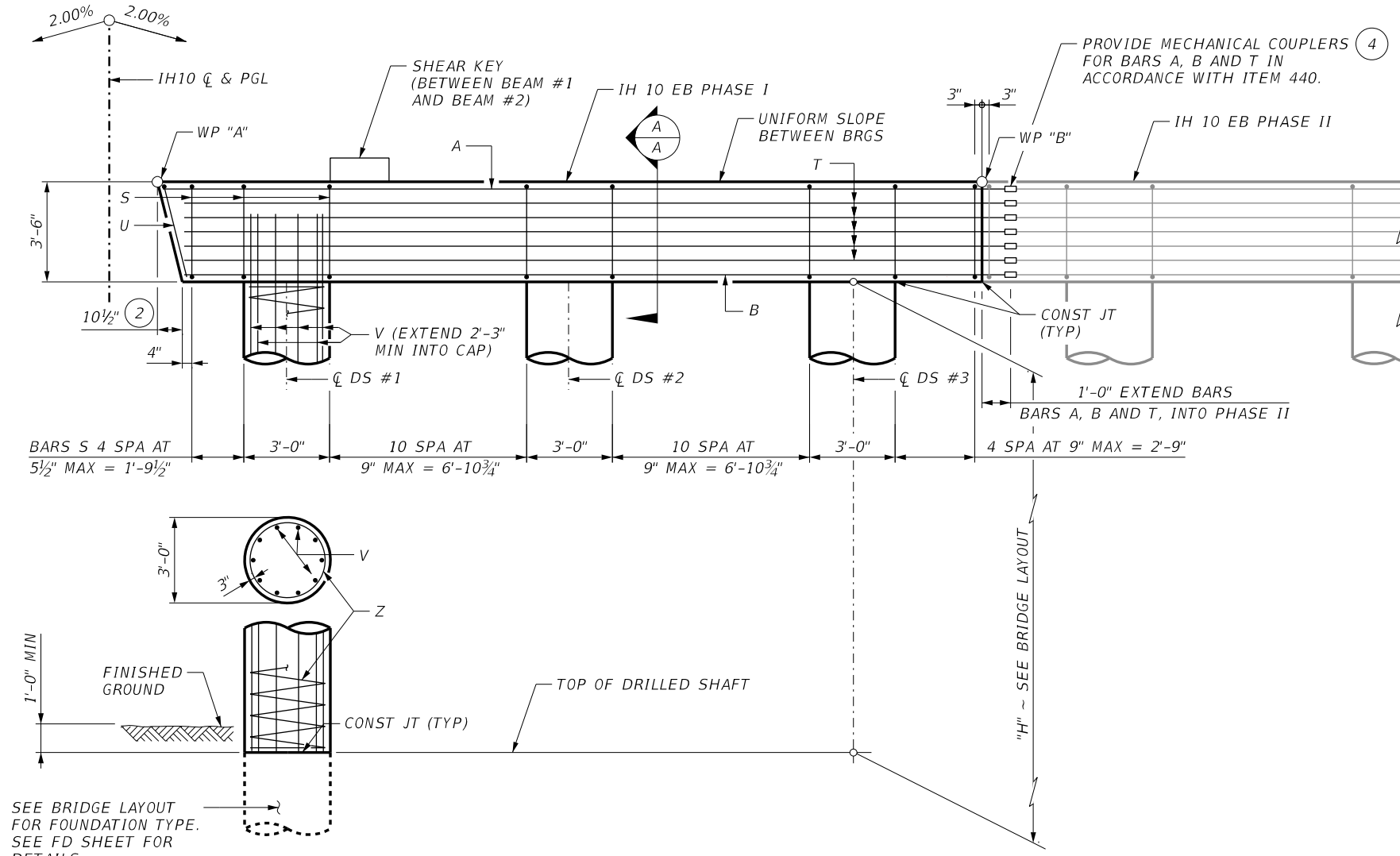
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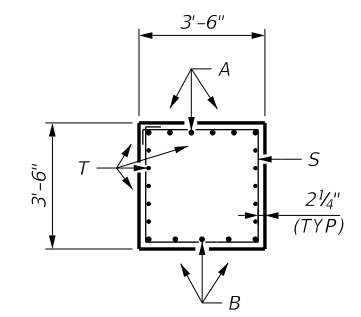
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PLAN PHASE I



ELEVATION PHASE I

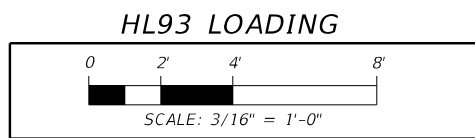


SECTION A-A

- GENERAL NOTES**
- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 - CONCRETE STRENGTH F'C = 3,600 PSI.
 - ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
 - SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
 - SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
 - SEE CONCRETE RIPRAP STANDARD SHEET, CRR, FOR RIPRAP ATTACHMENT DETAILS.
 - SEE APPLICABLE RAIL DETAILS FOR RAIL ANCHORAGE IN WINGWALLS.
 - LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.



- KEYED NOTES**
- OMIT DOWELS D AT END OF UNIT. ADJUST REINFORCING STEEL TOTAL ACCORDINGLY.
 - MEASURED PARALLEL TO TOP OF CAP CROSS-SLOPE.
 - PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
 - MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



Steve Groves 4/24/2024

4/24/2024 REVISED PLAN NOTES			
NO.	DATE	REVISION	APPROV.

CivilCorp
ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283



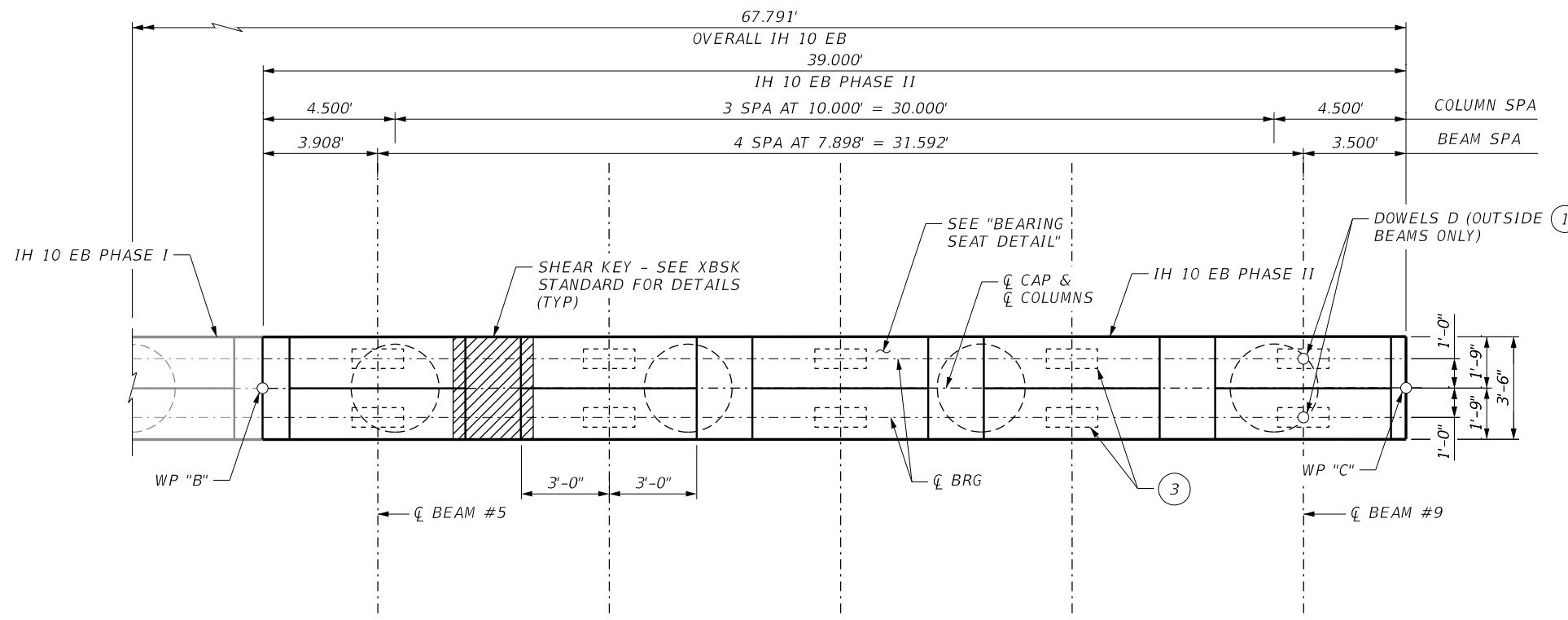
IH 10 WIDENING (NMSL/SPUR 37)
BENT NO. 2 & 3
PHASE I
DRAIN & TURNAROUND #CA BRIDGE
IH 10 EB
(STA 88+85 TO STA 90+65)

SHEET 1 OF 1

WORKING POINT ELEVATIONS		
WP	ELEV	
		BENT 2
A	3911.091'	3910.806'
B	3910.515'	3910.230'

TOP OF COLUMN ELEVATIONS		
COL	ELEV	
		BENT 2
1	3907.501'	3907.216'
2	3907.303'	3907.018'
3	3907.105'	3906.820'

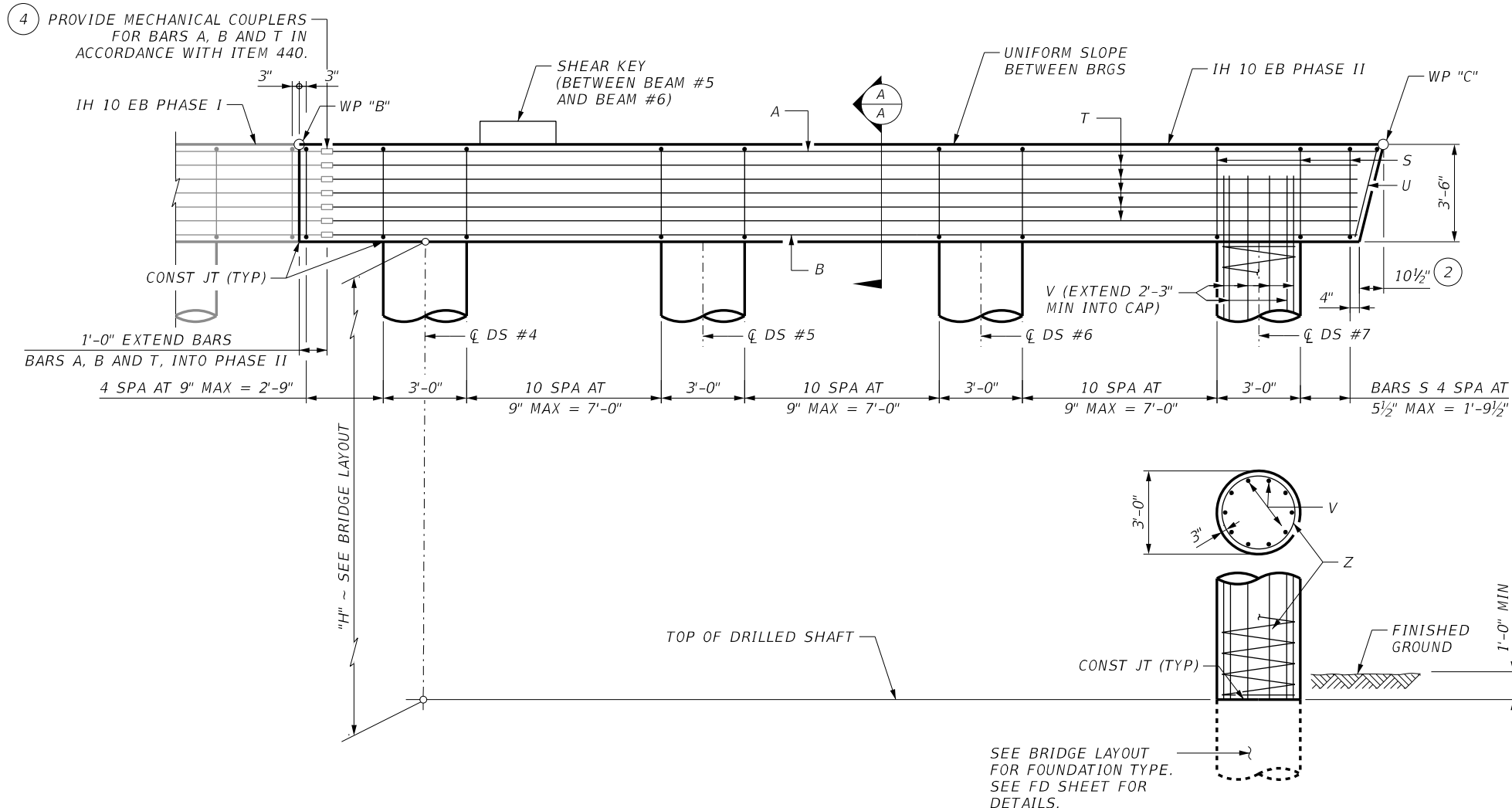
FED. DIV. NO.	STATE	FEDERAL AID PROJECT		HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET		IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
ELP	EL PASO	2121	01	104
				SHEET NO.
				597



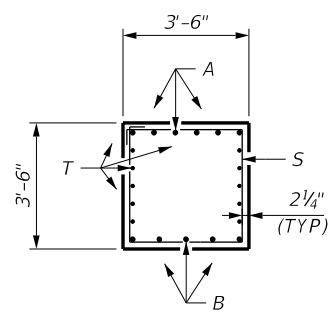
PLAN PHASE II

- GENERAL NOTES**
- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 - CONCRETE STRENGTH $f'_c = 3,600$ PSI.
 - ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
 - SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
 - SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
 - SEE CONCRETE RIPRAP STANDARD SHEET, CRR, FOR RIPRAP ATTACHMENT DETAILS.
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- OMIT DOWELS D AT END OF UNIT. ADJUST REINFORCING STEEL TOTAL ACCORDINGLY.
 - MEASURED PARALLEL TO TOP OF CAP CROSS-SLOPE.
 - PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
 - MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



ELEVATION PHASE II



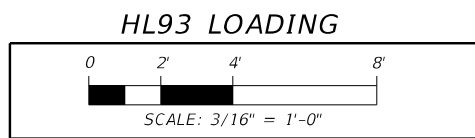
SECTION A-A

WORKING POINT ELEVATIONS

WP	ELEV	
	BENT 2	BENT 3
B	3910.515'	3910.230'
C	3909.735'	3909.450'

TOP OF COLUMN ELEVATIONS

COL	ELEV	
	BENT 2	BENT 3
4	3906.925'	3906.640'
5	3906.725'	3906.440'
6	3906.525'	3906.240'
7	3906.325'	3906.040'



STATE OF TEXAS
 WIRAT WANICHAKORN
 96609
 LICENSED PROFESSIONAL ENGINEER

Steve Groves 4/24/2024

#24/2024 REVISED PLAN NOTES

NO.	DATE	REVISION	APPROV.

CivilCorp
 ENGINEERS • SURVEYORS
 2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
 TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

Texas Department of Transportation

IH 10 WIDENING (NMSL/SPUR 37)
 BENT NO. 2 & 3
 PHASE II
 DRAIN & TURNAROUND #CA BRIDGE
 IH 10 EB
 (STA 88+85 TO STA 90+65)

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10

STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	598

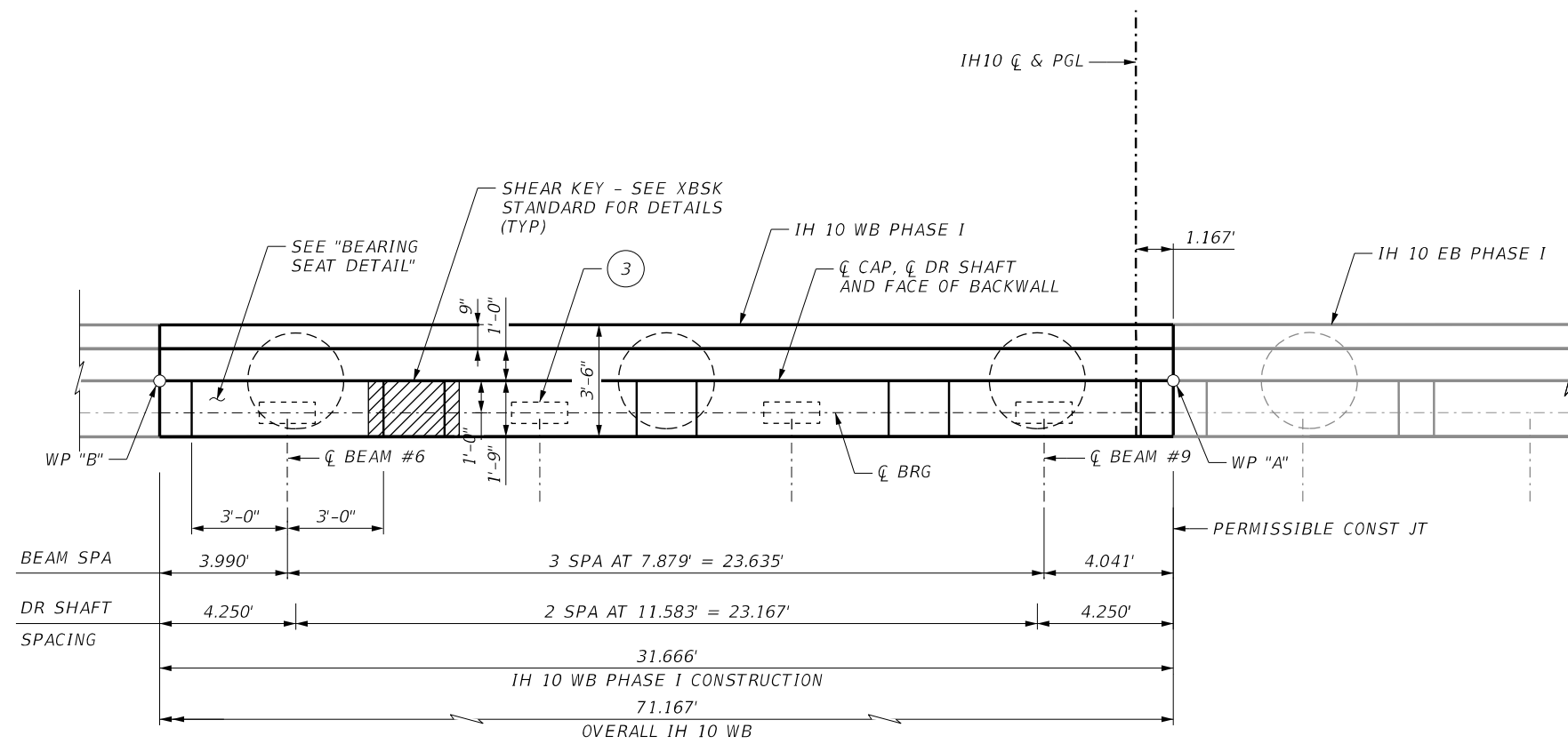
GENERAL NOTES

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- CONCRETE STRENGTH $f'_c = 3,600$ PSI.
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- SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
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- LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPlicing TO THREADED MECHANICAL COUPLERS.



KEYED NOTES

- INCREASE AS REQUIRED TO MAINTAIN $3\frac{3}{4}$ " FROM FINISHED GRADE.
- SPACING BASED ON BEAM TYPE: XB20 ~ 2 EQUAL SPACES
- PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
- MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



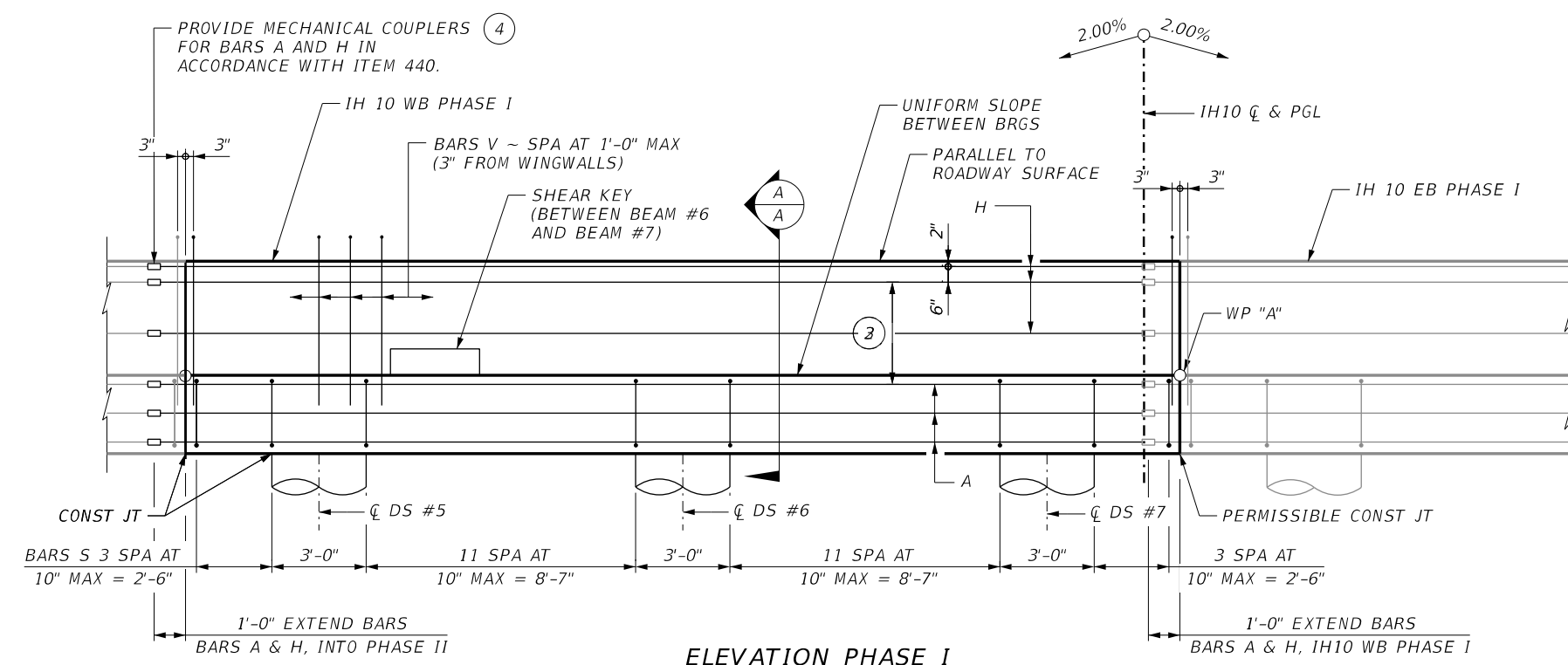
PLAN PHASE I

WORKING POINT ELEVATIONS

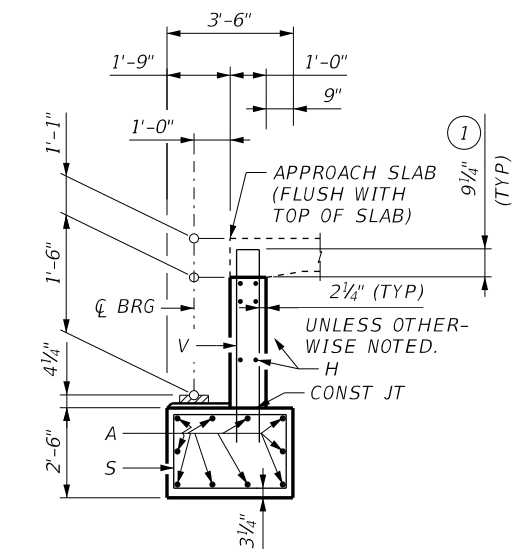
WP	ELEV	
	ABUT 1	ABUT 4
A	3911.352'	3910.436'
B	3910.719'	3909.803'

TOP OF DS ELEVATIONS

DS	ELEV	
	ABUT 1	ABUT 4
5	3908.304'	3907.388'
6	3908.535'	3907.620'
7	3908.767'	3907.851'

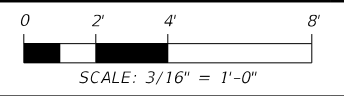


ELEVATION PHASE I



SECTION A-A

HL93 LOADING



Wirat Wanichakorn
4/24/2024

REVISIONS

NO.	DATE	REVISION	APPROV.
1	4/24/2024	REVISED PLAN NOTES	

CivilCorp
ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

Texas Department of Transportation

**IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 4
PHASE I
DRAIN & TURNAROUND #CB BRIDGE
IH 10 WB
(STA 88+85 TO STA 90+65)**

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	612

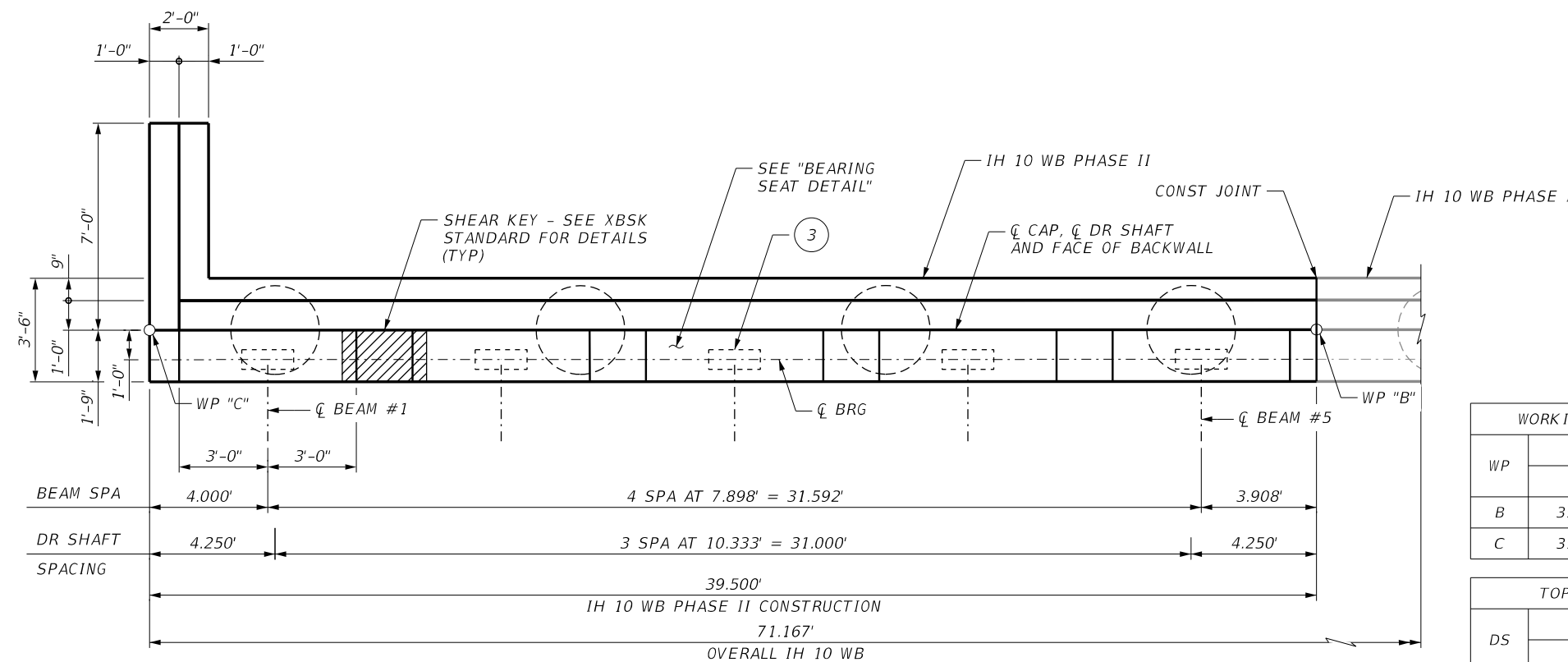
GENERAL NOTES

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- ① INCREASE AS REQUIRED TO MAINTAIN 3/4" FROM FINISHED GRADE.
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PLAN PHASE II

WORKING POINT ELEVATIONS		
WP	ELEV	
	ABUT 1	ABUT 4
B	3910.719'	3909.803'
C	3909.929'	3909.013'

TOP OF DS ELEVATIONS		
DS	ELEV	
	ABUT 1	ABUT 4
1	3907.514'	3906.598'
2	3907.720'	3906.805'
3	3907.927'	3907.011'
4	3908.134'	3907.218'

HL93 LOADING



Wirat Wanichakorn
4/24/2024

NO.	DATE	REVISION	APPROV.
1	4/24/2024	REVISED PLAN NOTES	

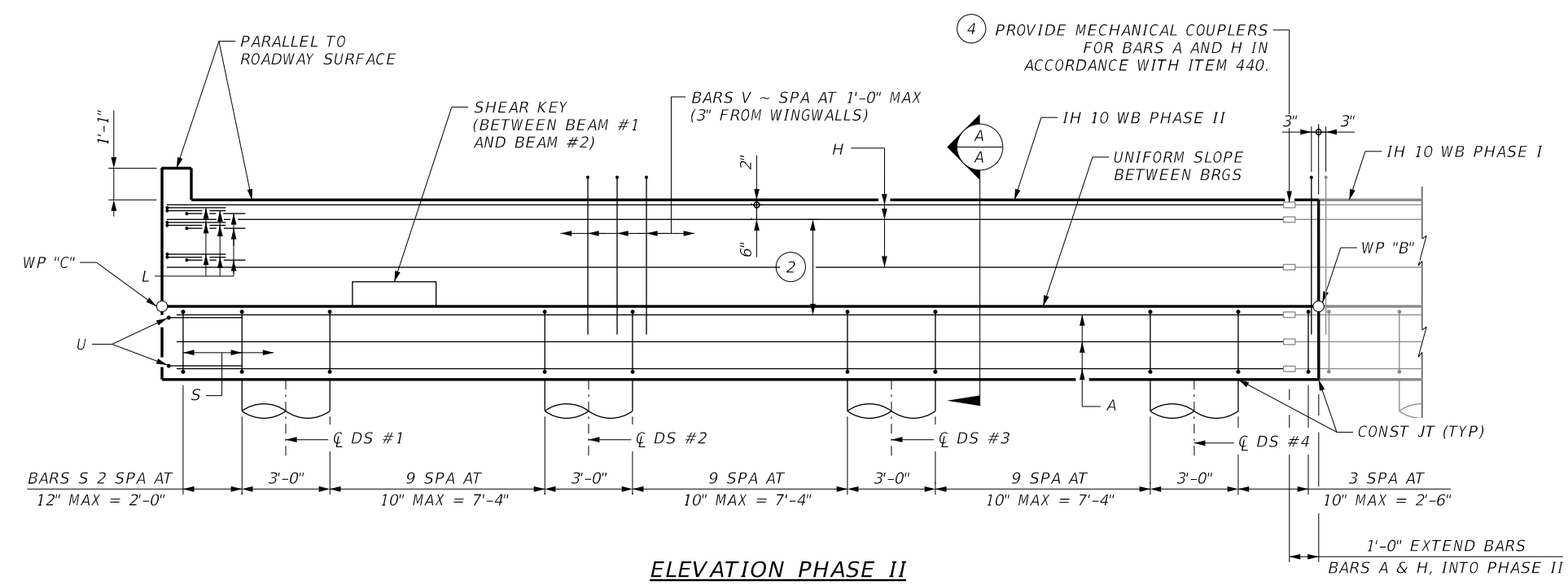
CivilCorp
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Texas Department of Transportation

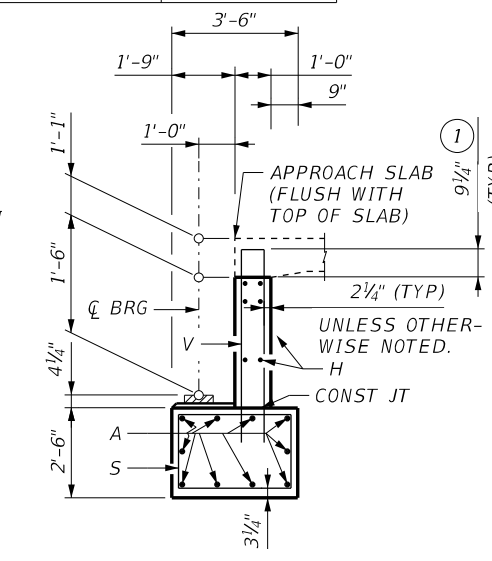
**IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 4
PHASE II
DRAIN & TURNAROUND #CB BRIDGE
IH 10 WB
(STA 88+85 TO STA 90+65)**

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	613



ELEVATION PHASE II

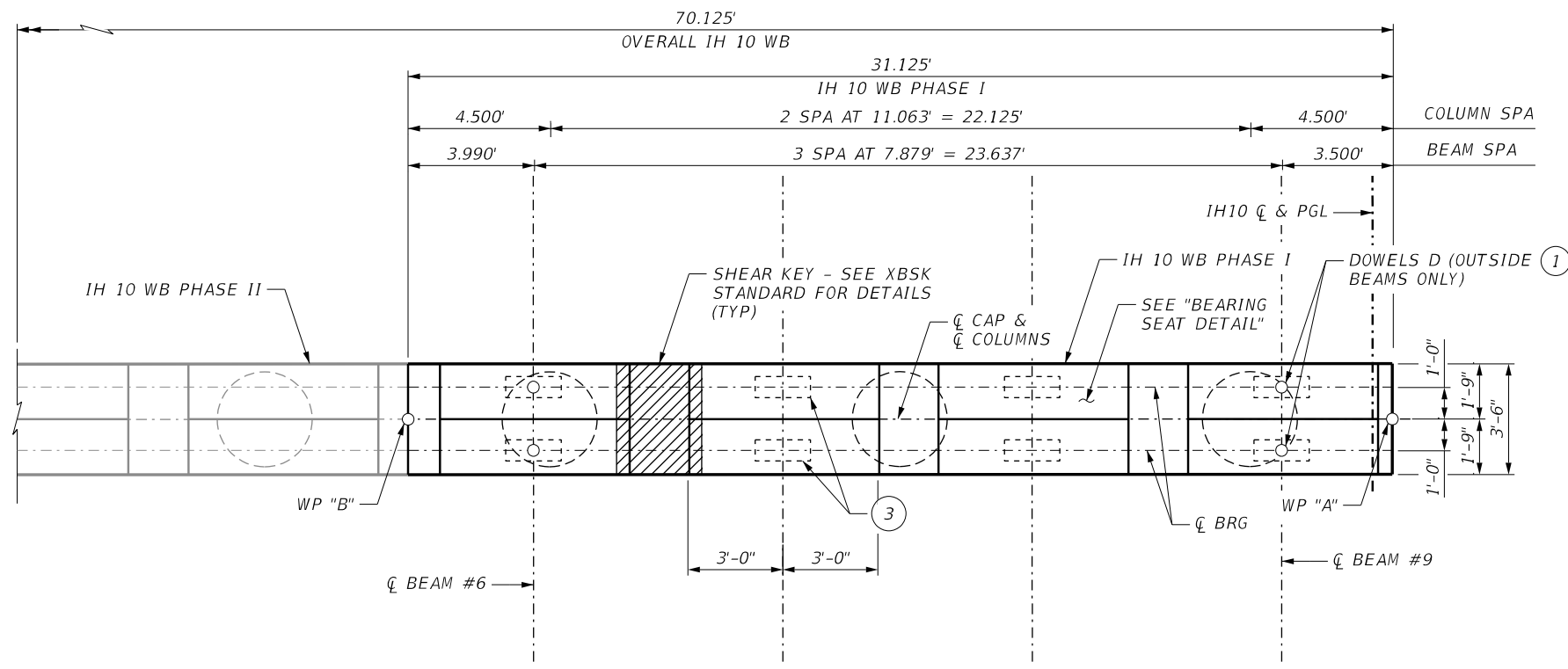


SECTION A-A

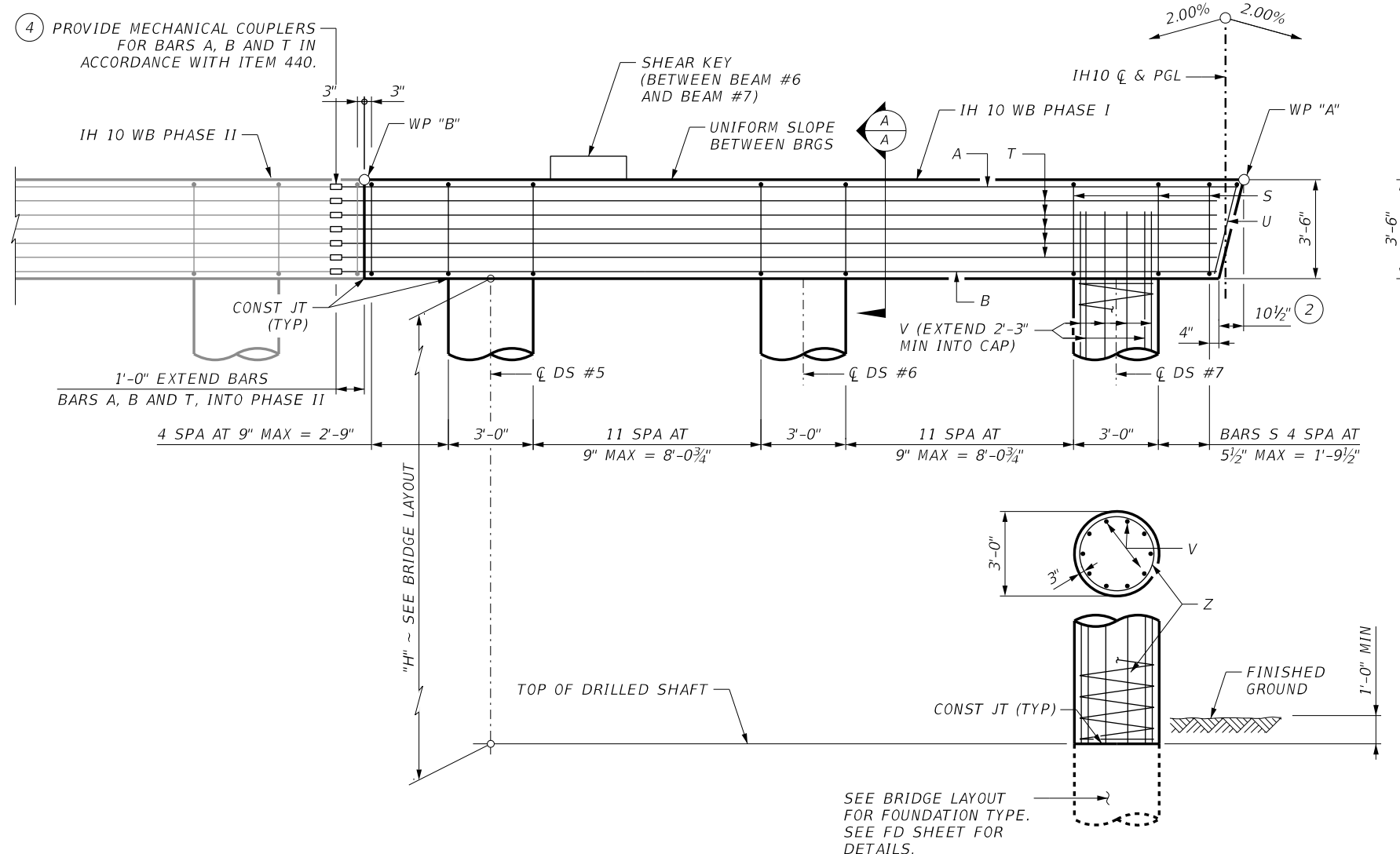
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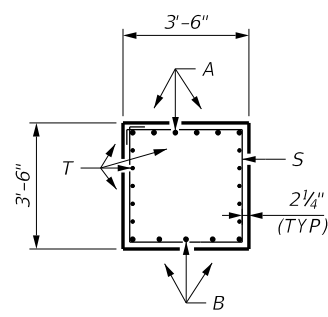
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PLAN PHASE I



ELEVATION PHASE I



SECTION A-A

WORKING POINT ELEVATIONS

WP	ELEV	
	BENT 2	BENT 3
A	3911.137'	3910.853'
B	3910.515'	3910.230'

TOP OF COLUMN ELEVATIONS

COL	ELEV	
	BENT 2	BENT 3
5	3907.105'	3906.820'
6	3907.326'	3907.041'
7	3907.547'	3907.263'

- GENERAL NOTES**
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HL93 LOADING

STATE OF TEXAS
WIRAT WANICHAKORN
96609
LICENSED PROFESSIONAL ENGINEER

Steve Grove 4/24/2024

4/24/2024 **REVISED PLAN NOTES**

CivilCorp
ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

Texas Department of Transportation

**IH 10 WIDENING (NMSL/SPUR 37)
BENT NO. 2 & 3
PHASE I
DRAIN & TURNAROUND #CB BRIDGE
IH 10 WB
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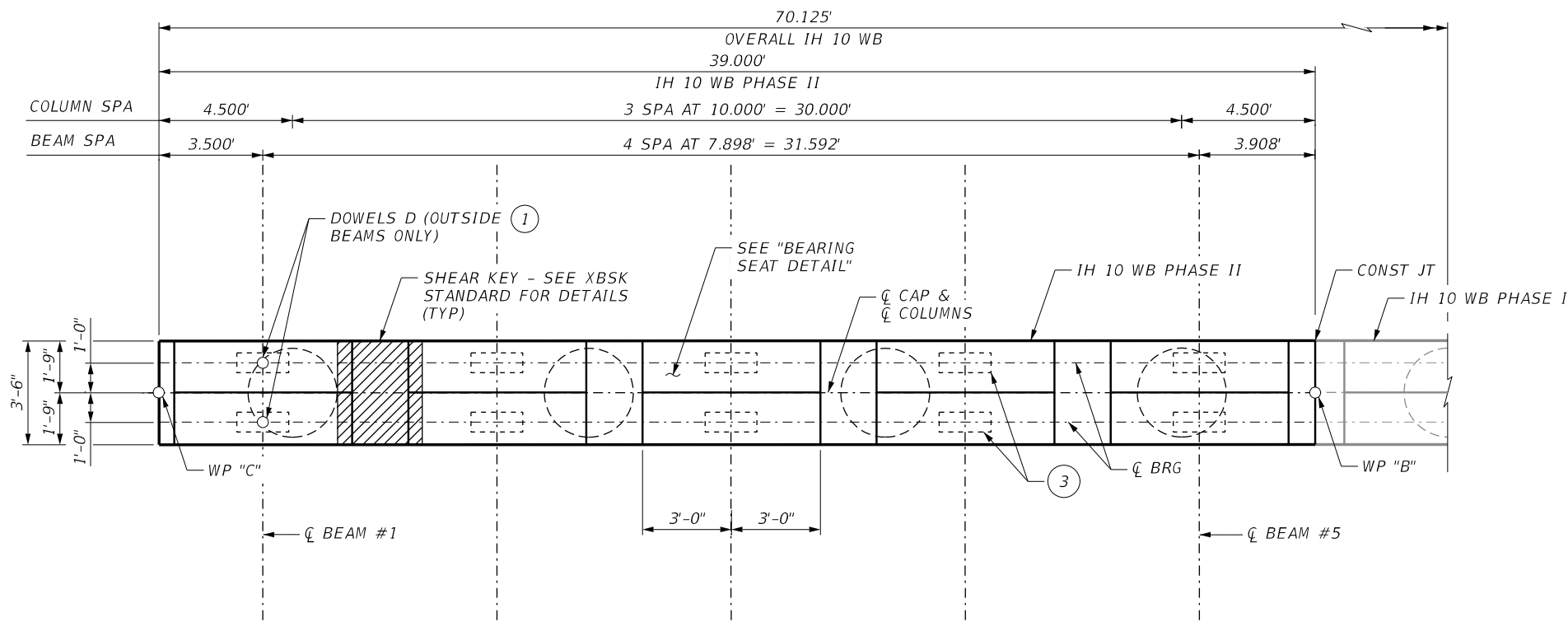
SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	615

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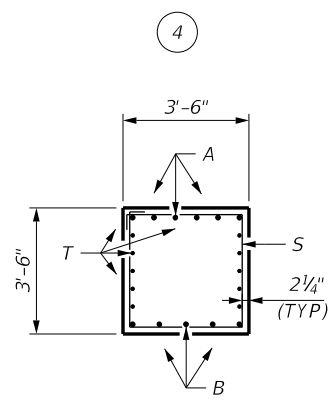
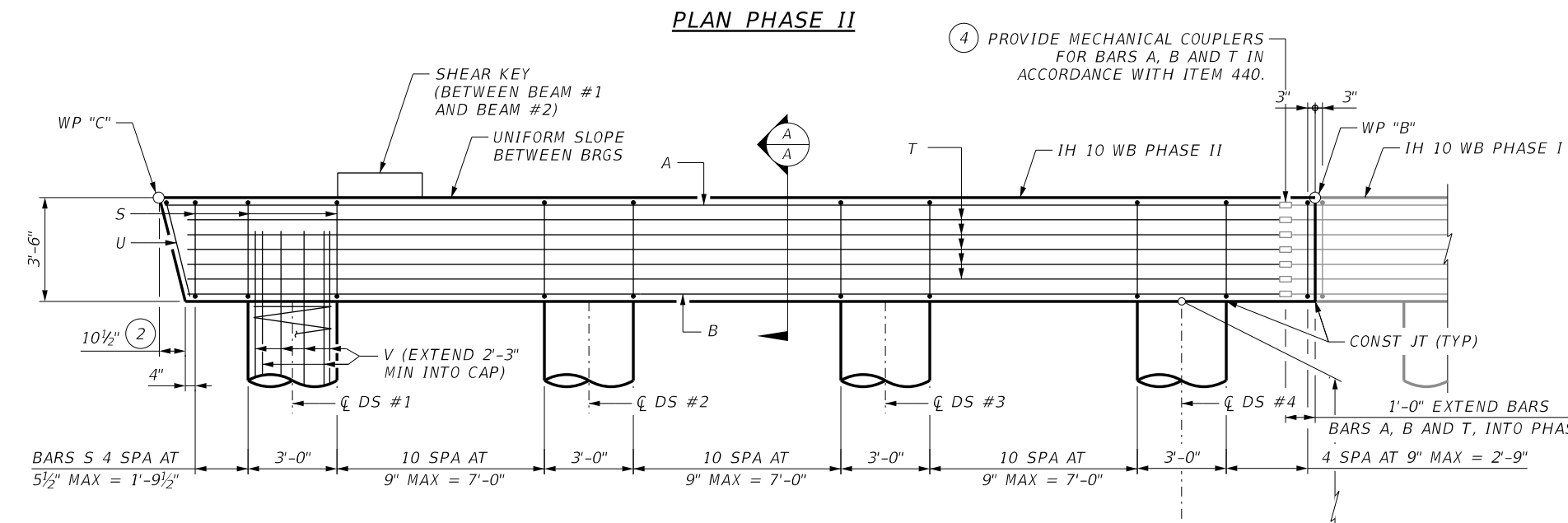
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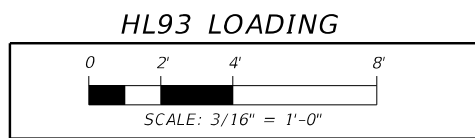
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WORKING POINT ELEVATIONS

WP	ELEV	
	BENT 2	BENT 3
B	3910.515'	3910.230'
C	3909.735'	3909.450'

TOP OF COLUMN ELEVATIONS

COL	ELEV	
	BENT 2	BENT 3
1	3906.325'	3906.040'
2	3906.525'	3906.240'
3	3906.725'	3906.440'
4	3906.925'	3906.640'



Professional Engineer Seal for WIRAT WANICHAKORN, LICENSE NO. 96609, STATE OF TEXAS. Date: 4/24/2024.

REVISED PLAN NOTES

CivilCorp
ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

Texas Department of Transportation

IH 10 WIDENING (NMSL/SPUR 37)
**BENT NO. 2 & 3
PHASE II**
DRAIN & TURNAROUND #CB BRIDGE
IH 10 WB
(STA 88+85 TO STA 90+65)

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
ELP	EL PASO	2121	01
			JOB NO.
			104
			SHEET NO.
			616

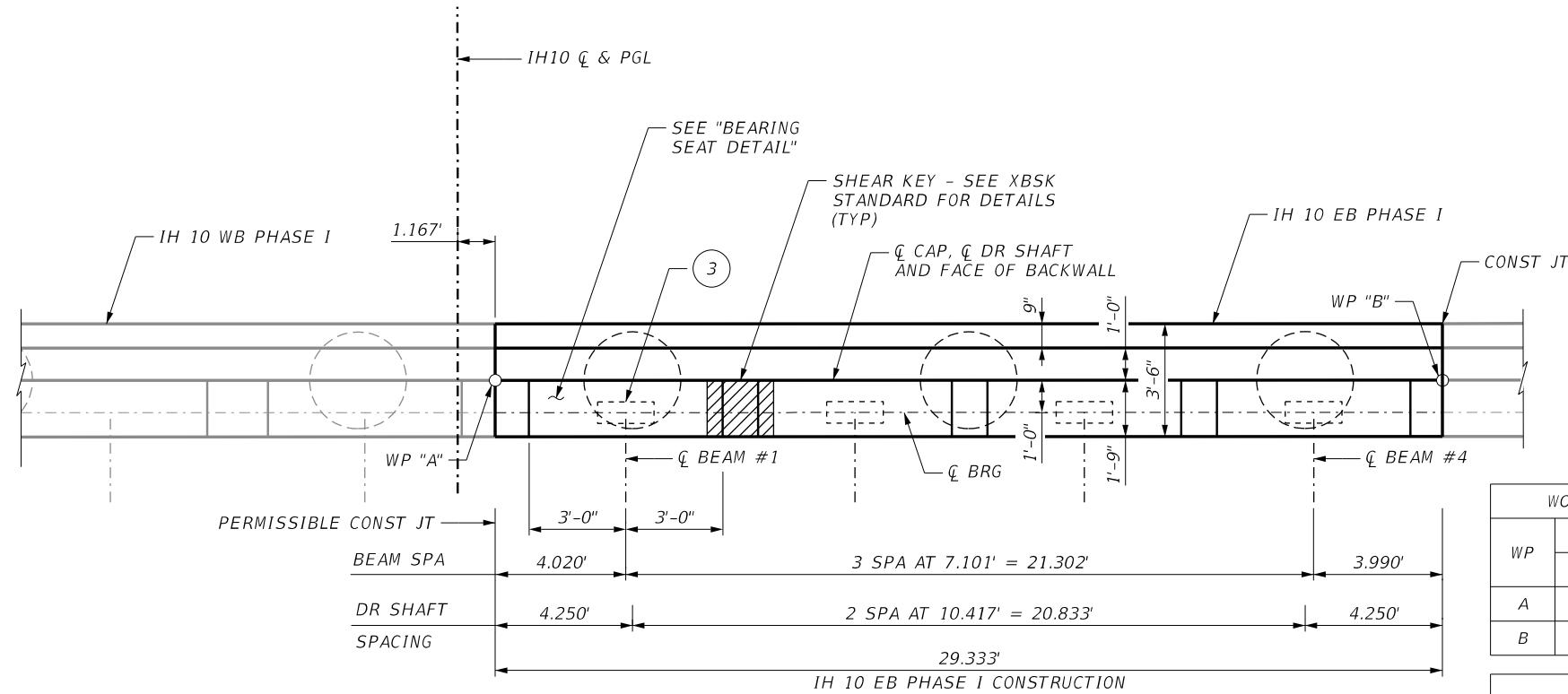
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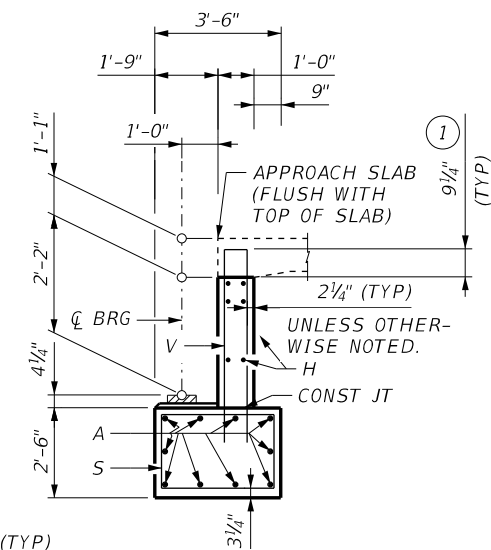
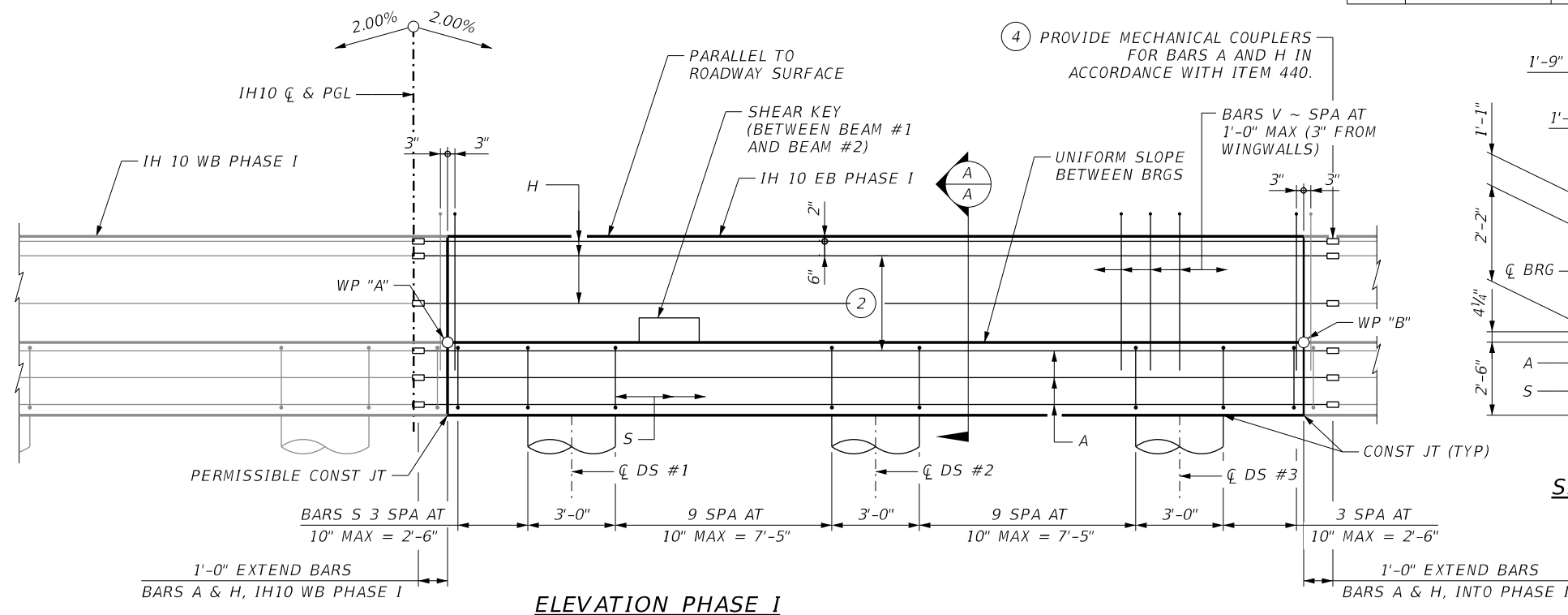
- ① INCREASE AS REQUIRED TO MAINTAIN 3 3/4" FROM FINISHED GRADE.
- ② SPACING BASED ON BEAM TYPE: XB28 ~ 3 EQUAL SPACES
- ③ PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
- ④ MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



WORKING POINT ELEVATIONS		
WP	ELEV	
	ABUT 1	ABUT 4
A	3910.483'	3911.386'
B	3909.897'	3910.799'

TOP OF DS ELEVATIONS		
DS	ELEV	
	ABUT 1	ABUT 4
1	3907.898'	3908.801'
2	3907.690'	3908.592'
3	3907.482'	3908.384'

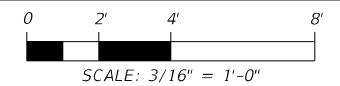
PLAN PHASE I



SECTION A-A

ELEVATION PHASE I

HL93 LOADING



Steve Groves 4/24/2024

REVISED PLAN NOTES



**IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 4
PHASE I
ARROYO 46 RELIEF #DA BRIDGE
IH 10 EB
(STA 112+96 TO STA 114+96)**

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	630

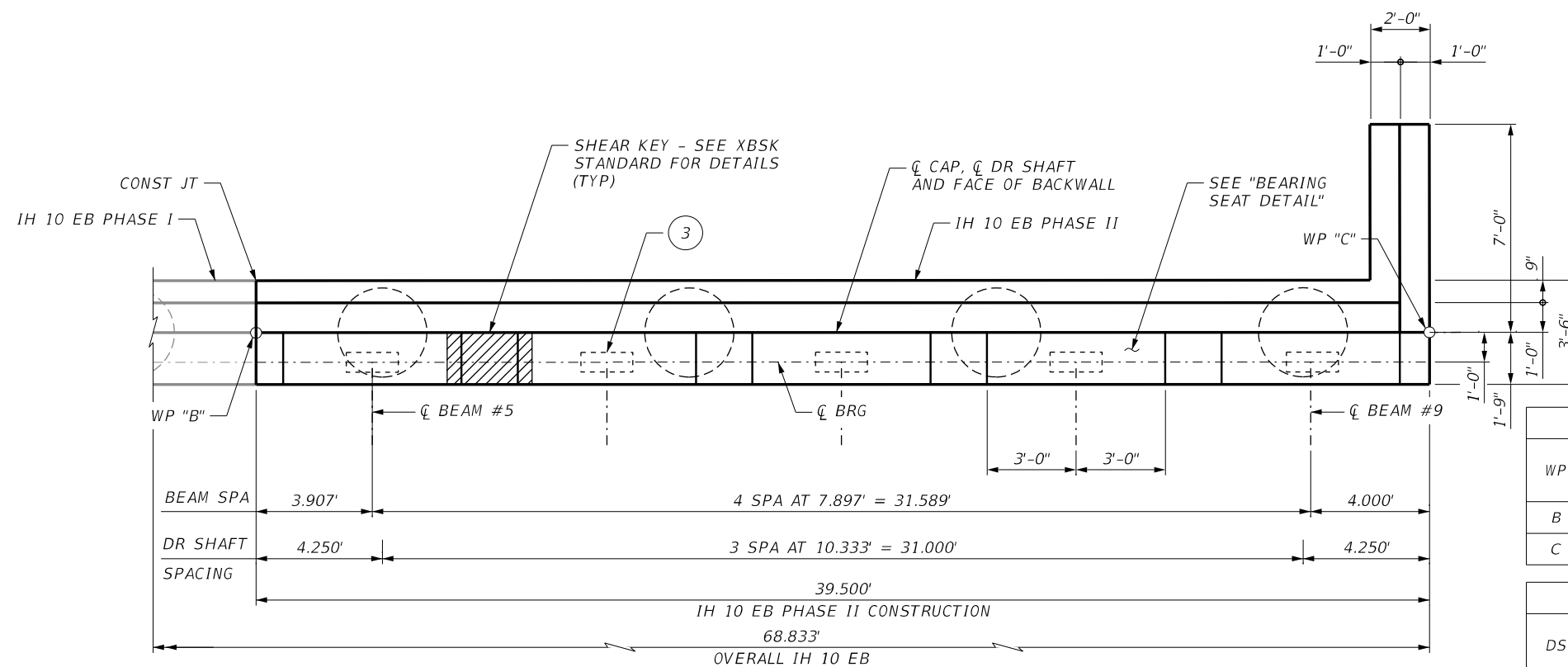
GENERAL NOTES

- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
- CONCRETE STRENGTH $f'_c = 3,600$ PSI.
- ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
- SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
- SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
- SEE CONCRETE RIPRAP STANDARD SHEET, CRR, FOR RIPRAP ATTACHMENT DETAILS.
- SEE APPLICABLE RAIL DETAILS FOR RAIL ANCHORAGE IN WINGWALLS.
- LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.



KEYED NOTES

- INCREASE AS REQUIRED TO MAINTAIN $3\frac{3}{4}$ " FROM FINISHED GRADE.
- SPACING BASED ON BEAM TYPE: XB28 ~ 3 EQUAL SPACES
- PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
- MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".

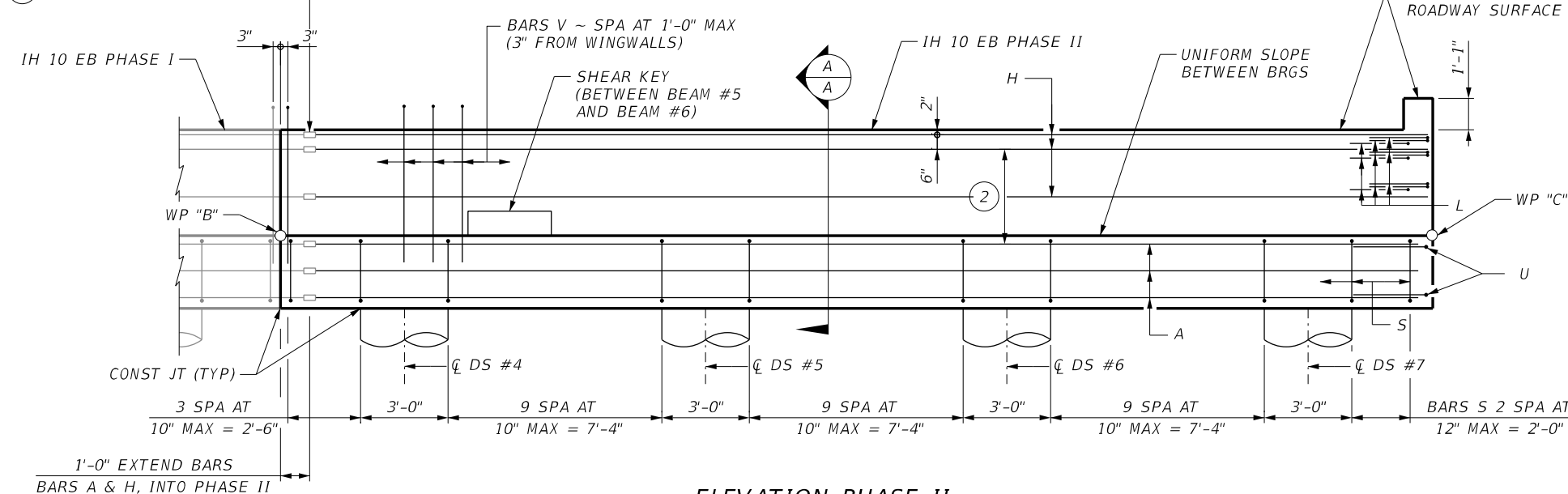


WP	ELEV	
	ABUT 1	ABUT 4
B	3909.897'	3910.799'
C	3909.107'	3910.009'

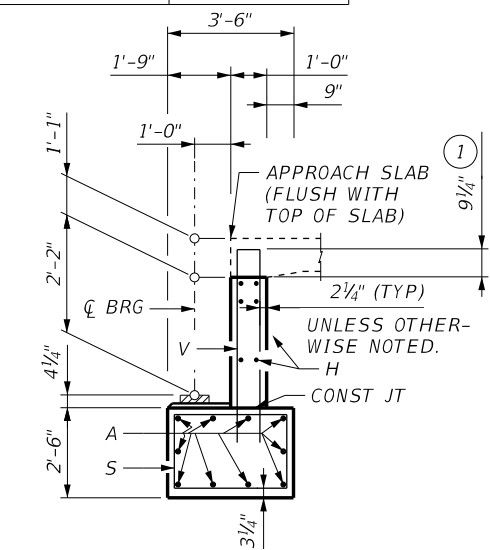
DS	ELEV	
	ABUT 1	ABUT 4
4	3907.312'	3908.214'
5	3907.105'	3908.007'
6	3906.898'	3907.801'
7	3906.692'	3907.594'

PLAN PHASE II

PROVIDE MECHANICAL COUPLERS FOR BARS A AND H IN ACCORDANCE WITH ITEM 440.

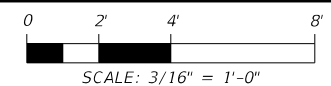


ELEVATION PHASE II



SECTION A-A

HL93 LOADING



Wirat Wanichakorn
4/24/2024

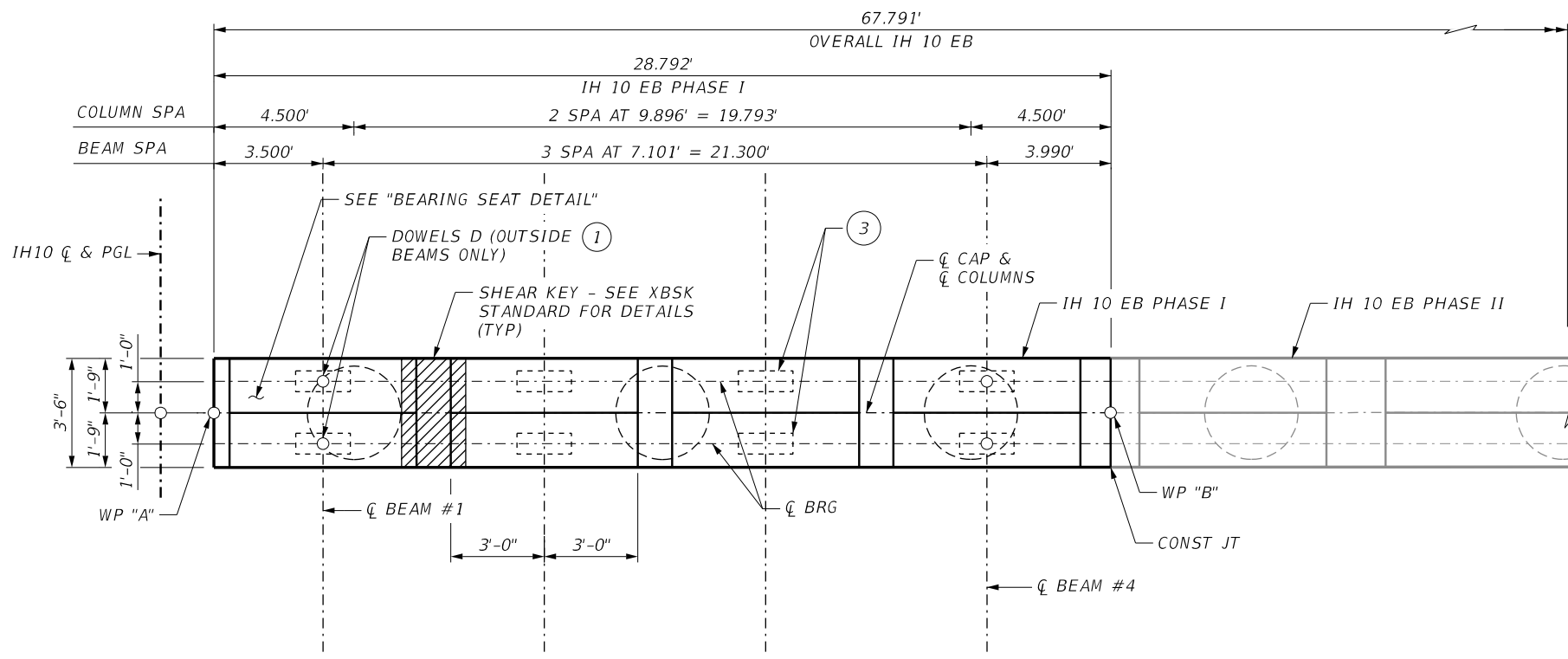
NO.	DATE	REVISION	APPROV.
1	4/24/2024	REVISED PLAN NOTES	

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ENGINEERS • SURVEYORS
2825 WILCREST DRIVE, SUITE 100, HOUSTON TEXAS 77042
TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

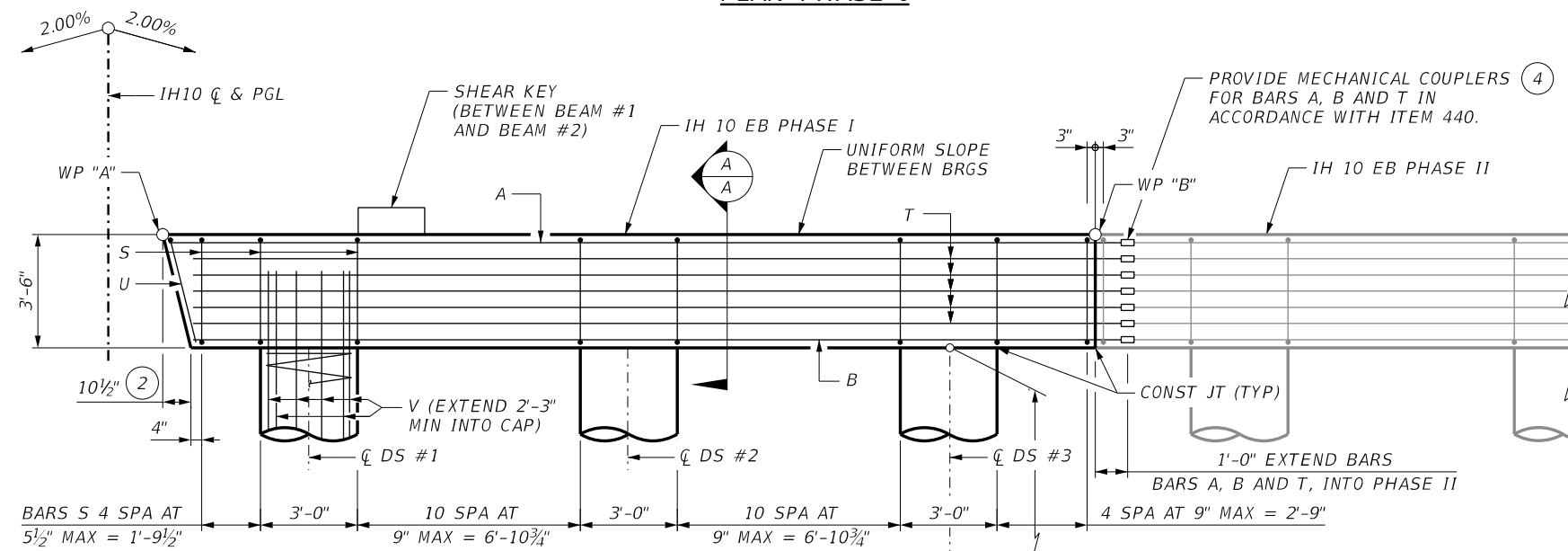
Texas Department of Transportation

IH 10 WIDENING (NMSL/SPUR 37)
ABUTMENT NO. 1 & 4
PHASE II
ARROYO 46 RELIEF #DA BRIDGE
IH 10 EB
(STA 112+96 TO STA 114+96)

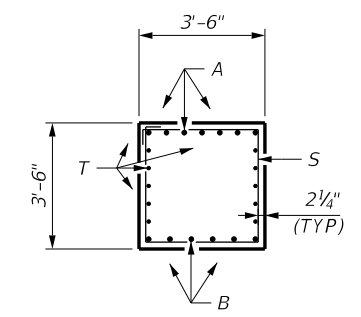
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	631



PLAN PHASE I



ELEVATION PHASE I

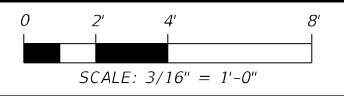


SECTION A-A

- GENERAL NOTES**
- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 - CONCRETE STRENGTH $f'_c = 3,600$ PSI.
 - ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
 - SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
 - SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
 - SEE CONCRETE RIPRAP STANDARD SHEET, CRR, FOR RIPRAP ATTACHMENT DETAILS.
 - SEE APPLICABLE RAIL DETAILS FOR RAIL ANCHORAGE IN WINGWALLS.
 - LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.

- KEYED NOTES**
- OMIT DOWELS D AT END OF UNIT. ADJUST REINFORCING STEEL TOTAL ACCORDINGLY.
 - MEASURED PARALLEL TO TOP OF CAP CROSS-SLOPE.
 - PLACE ONE BEARING AT FORWARD STATION BEAM END. PLACE TWO BEARINGS AT BACK STATION BEAM END. SEE XBEB STANDARD FOR DETAILS.
 - MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".

HL93 LOADING



Wirat Wanichakorn 4/24/2024

REVISIONS

NO.	DATE	REVISION	APPROV.
1	4/24/2024	REVISED PLAN NOTES	



IH 10 WIDENING (NMSL/SPUR 37)
BENT NO. 2 & 3
PHASE I
 ARROYO 46 RELIEF #DA BRIDGE
 IH 10 EB
 (STA 112+96 TO STA 114+96)

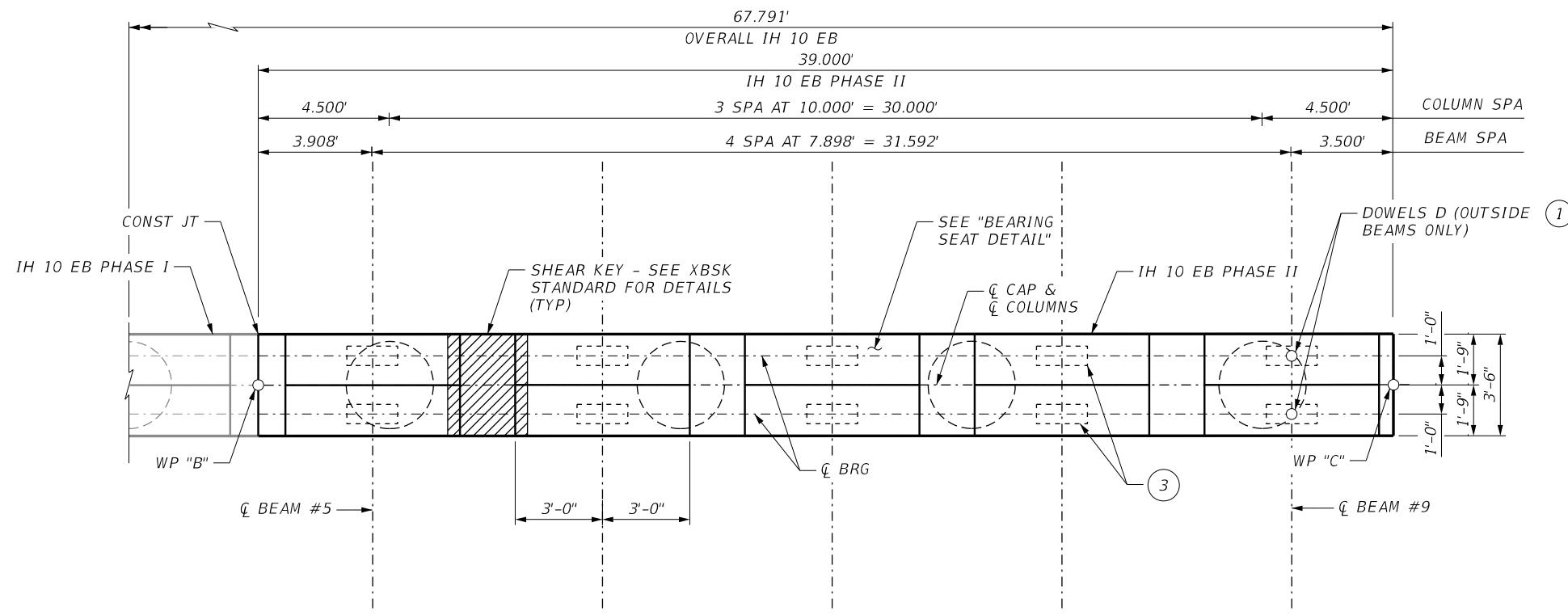
SHEET 1 OF 1

WORKING POINT ELEVATIONS

WP	ELEV	
	BENT 2	BENT 3
A	3910.824'	3911.095'
B	3910.248'	3910.519'

TOP OF COLUMN ELEVATIONS

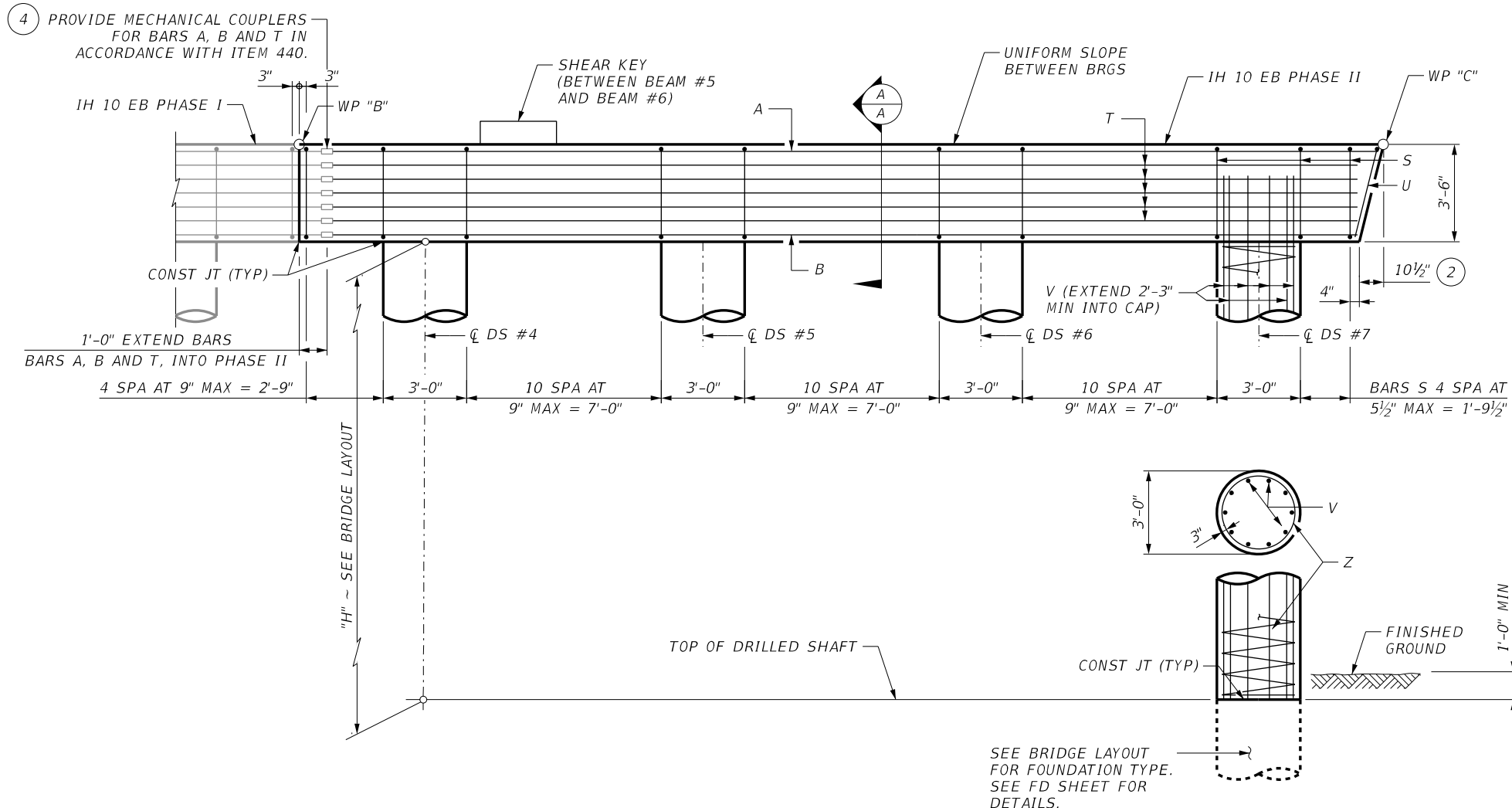
COL	ELEV	
	BENT 2	BENT 3
1	3907.234'	3907.505'
2	3907.036'	3907.307'
3	3906.838'	3907.109'



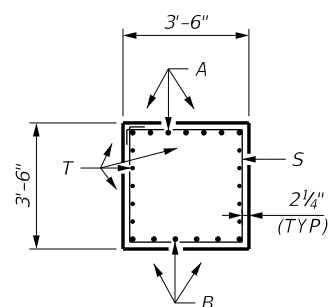
PLAN PHASE II

- GENERAL NOTES**
- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 - CONCRETE STRENGTH $f'_c = 3,600$ PSI.
 - ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
 - SEE BRIDGE LAYOUT FOR HEADER SLOPE AND FOUNDATION TYPE, SIZE AND LENGTH.
 - SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
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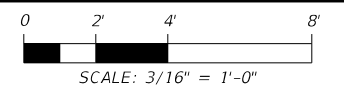


ELEVATION PHASE II



SECTION A-A

HL93 LOADING



Wirat Wanichakorn
4/24/2024

REVISED PLAN NOTES

WORKING POINT ELEVATIONS		
WP	ELEV	
	BENT 2	BENT 3
B	3910.248'	3910.519'
C	3909.468'	3909.739'

TOP OF COLUMN ELEVATIONS		
COL	ELEV	
	BENT 2	BENT 3
4	3907.325'	3907.596'
5	3907.125'	3907.396'
6	3906.925'	3907.196'
7	3906.725'	3906.996'

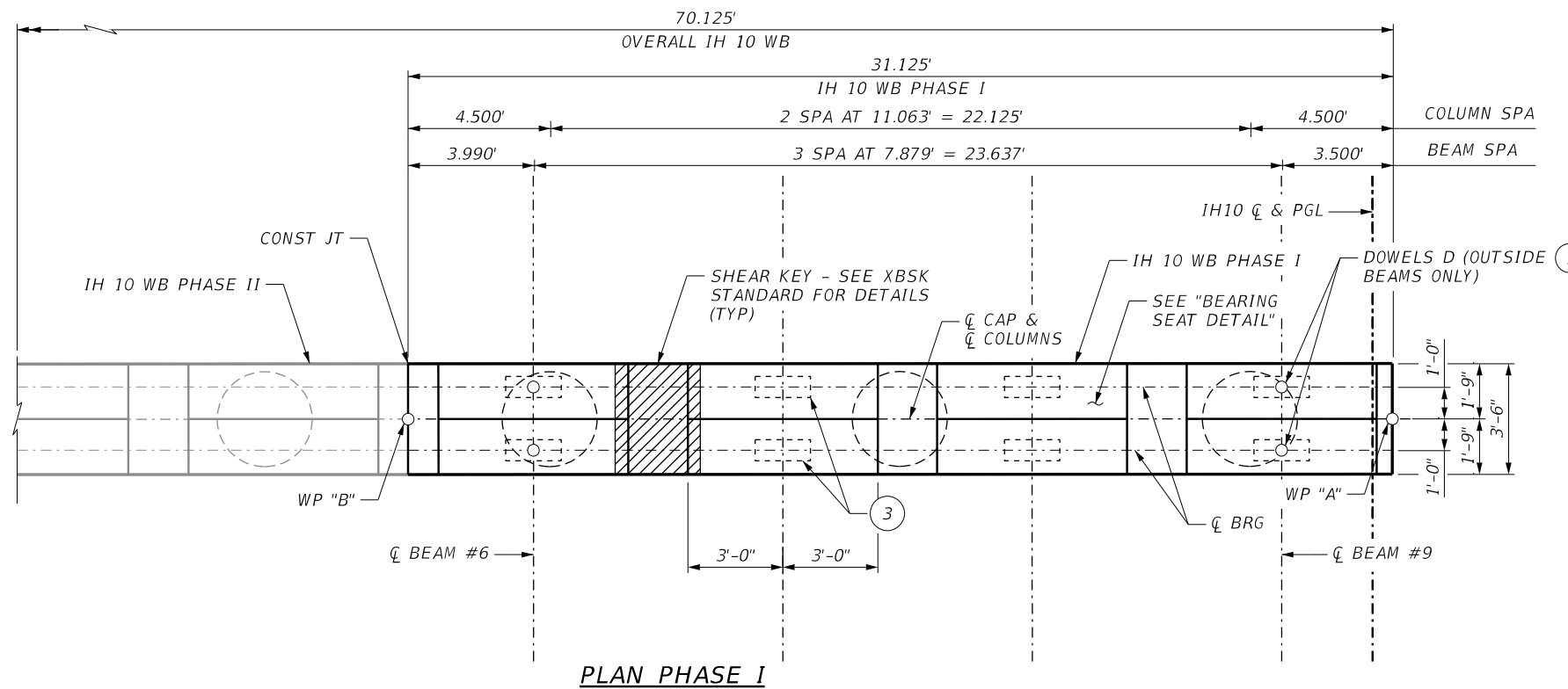
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TEL: 713-785-9815 FAX: 713-782-6922 TXENG FIRM 10283

Texas Department of Transportation

IH 10 WIDENING (NMSL/SPUR 37)
BENT NO. 2 & 3
PHASE II
ARROYO 46 RELIEF #DA BRIDGE
IH 10 EB
(STA 112+96 TO STA 114+96)

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT		HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET		IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
ELP	EL PASO	2121	01	104
				SHEET NO.
				634

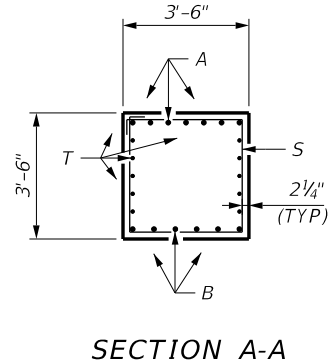
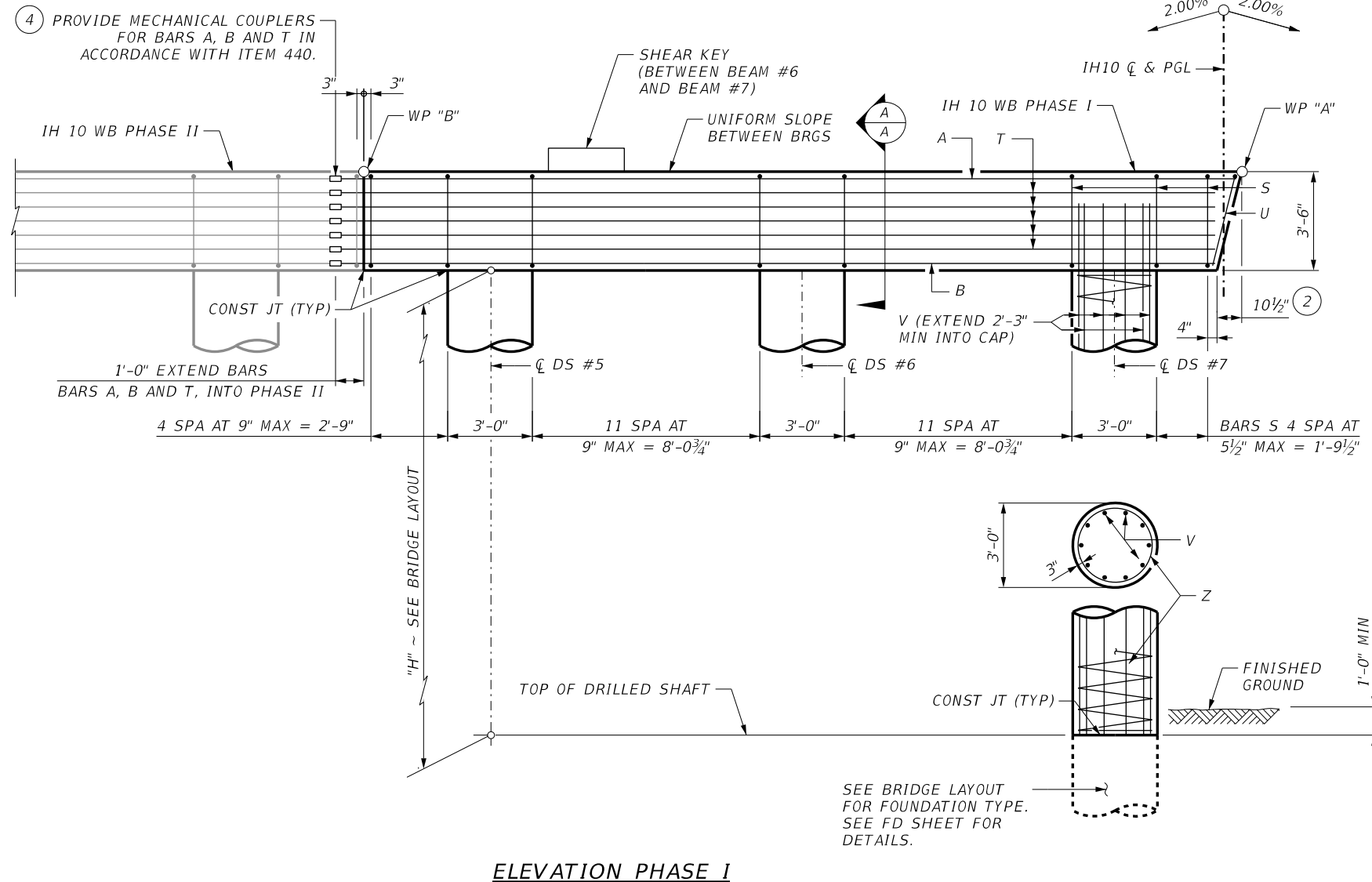


GENERAL NOTES

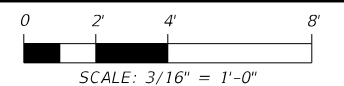
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HL93 LOADING



Steve Groves 4/24/2024

REVISIONS: 1/24/2024 REVISED PLAN NOTES

WP	ELEV	
	BENT 2	BENT 3
A	3910.872'	3911.143'
B	3910.205'	3910.476'

COL	ELEV	
	BENT 2	BENT 3
5	3906.801'	3907.072'
6	3907.038'	3907.309'
7	3907.275'	3907.546'



IH 10 WIDENING (NMSL/SPUR 37)
BENT NO. 2 & 3
PHASE I
 ARROYO 46 RELIEF #DB BRIDGE
 IH 10 WB
 (STA 112+96 TO STA 114+96)

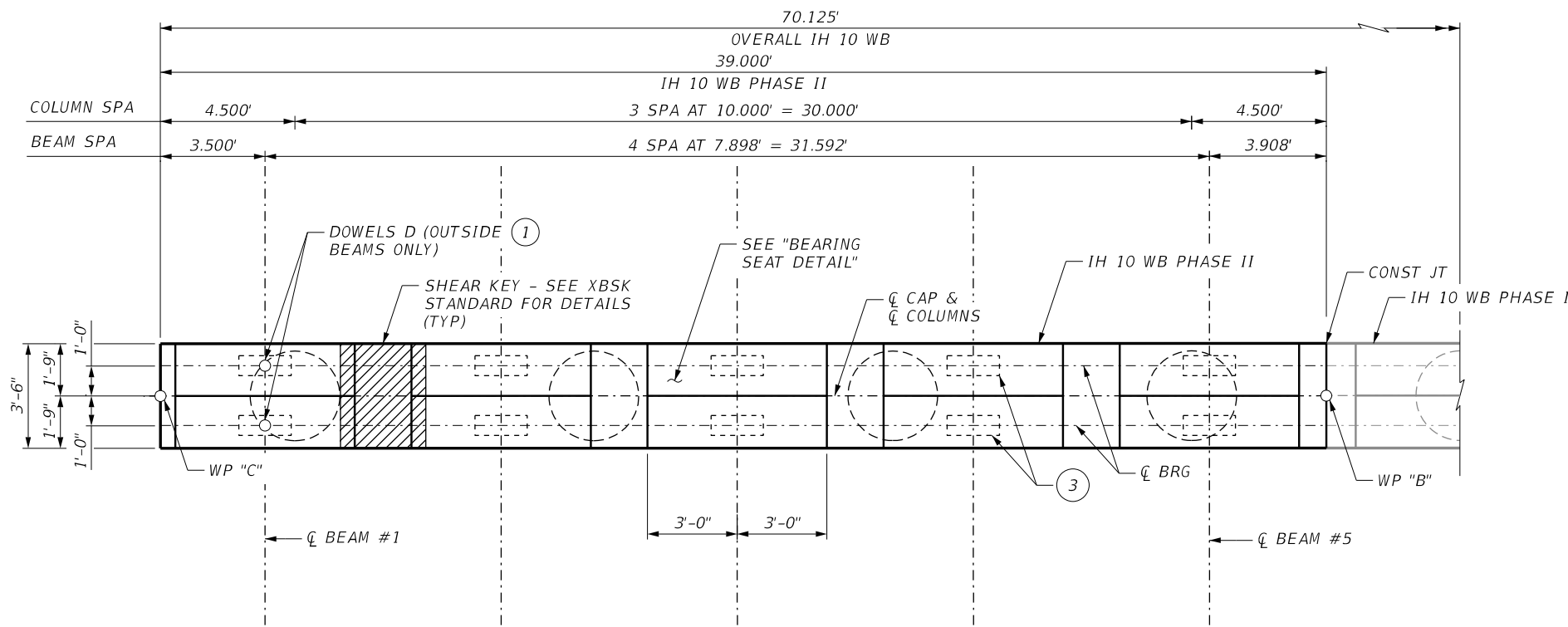
SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
ELP	EL PASO	2121	01
			JOB NO.
			104
			SHEET NO.
			651

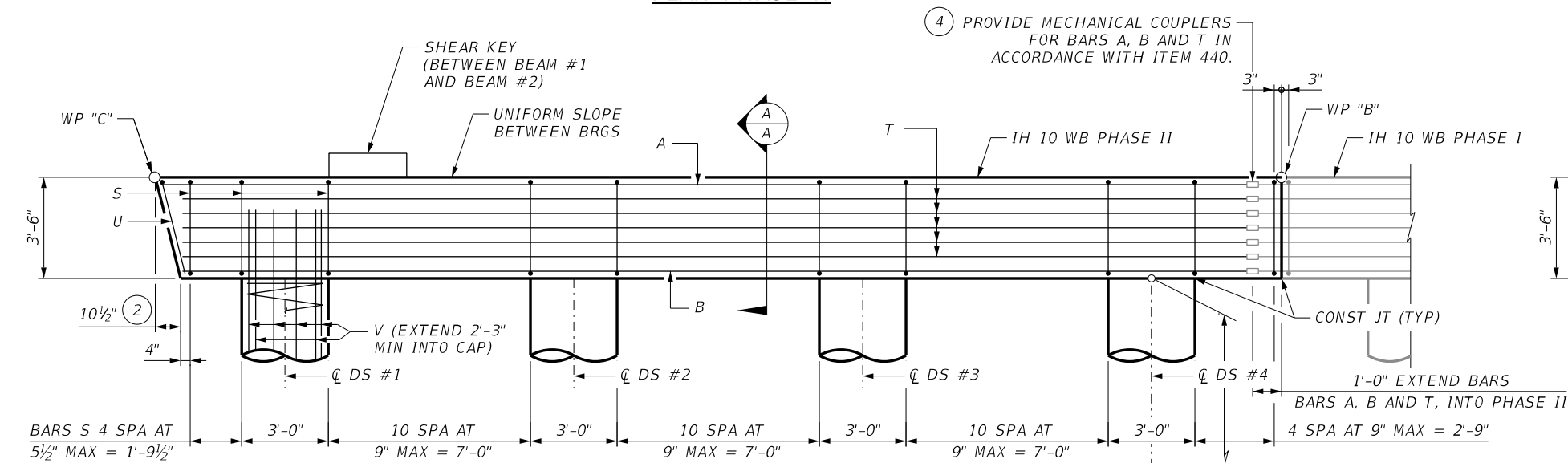
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PLAN PHASE II



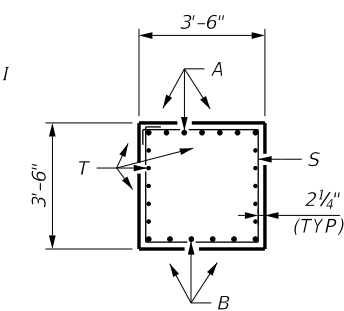
ELEVATION PHASE II

GENERAL NOTES

- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
- CONCRETE STRENGTH $f'_c = 3,600$ PSI.
- ALL CAP AND WALL REINFORCING MUST BE GRADE 60.
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- SEE FOUNDATION DETAIL STANDARD SHEET, FD, FOR ALL FOUNDATION DETAILS AND NOTES.
- SEE CONCRETE RIPRAP STANDARD SHEET, CRR, FOR RIPRAP ATTACHMENT DETAILS.
- SEE APPLICABLE RAIL DETAILS FOR RAIL ANCHORAGE IN WINGWALLS.
- LENGTHS SHOWN FOR BARS A AND H DO NOT INCLUDE LENGTH OF THREADED PROJECTION FOR SPLICING TO THREADED MECHANICAL COUPLERS.

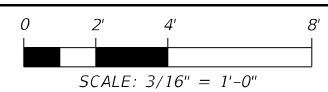
KEYED NOTES

- OMIT DOWELS D AT END OF UNIT. ADJUST REINFORCING STEEL TOTAL ACCORDINGLY.
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- MECHANICAL COUPLERS TO MEET TXDOT SPECIFICATION DMS-4510, "MECHANICAL COUPLERS FOR REINFORCING STEEL".



SECTION A-A

HL93 LOADING



Wirat Wanichakorn
4/24/2024

REVISED PLAN NOTES

WORKING POINT ELEVATIONS		
WP	ELEV	
	BENT 2	BENT 3
B	3910.205'	3910.476'
C	3909.369'	3909.640'

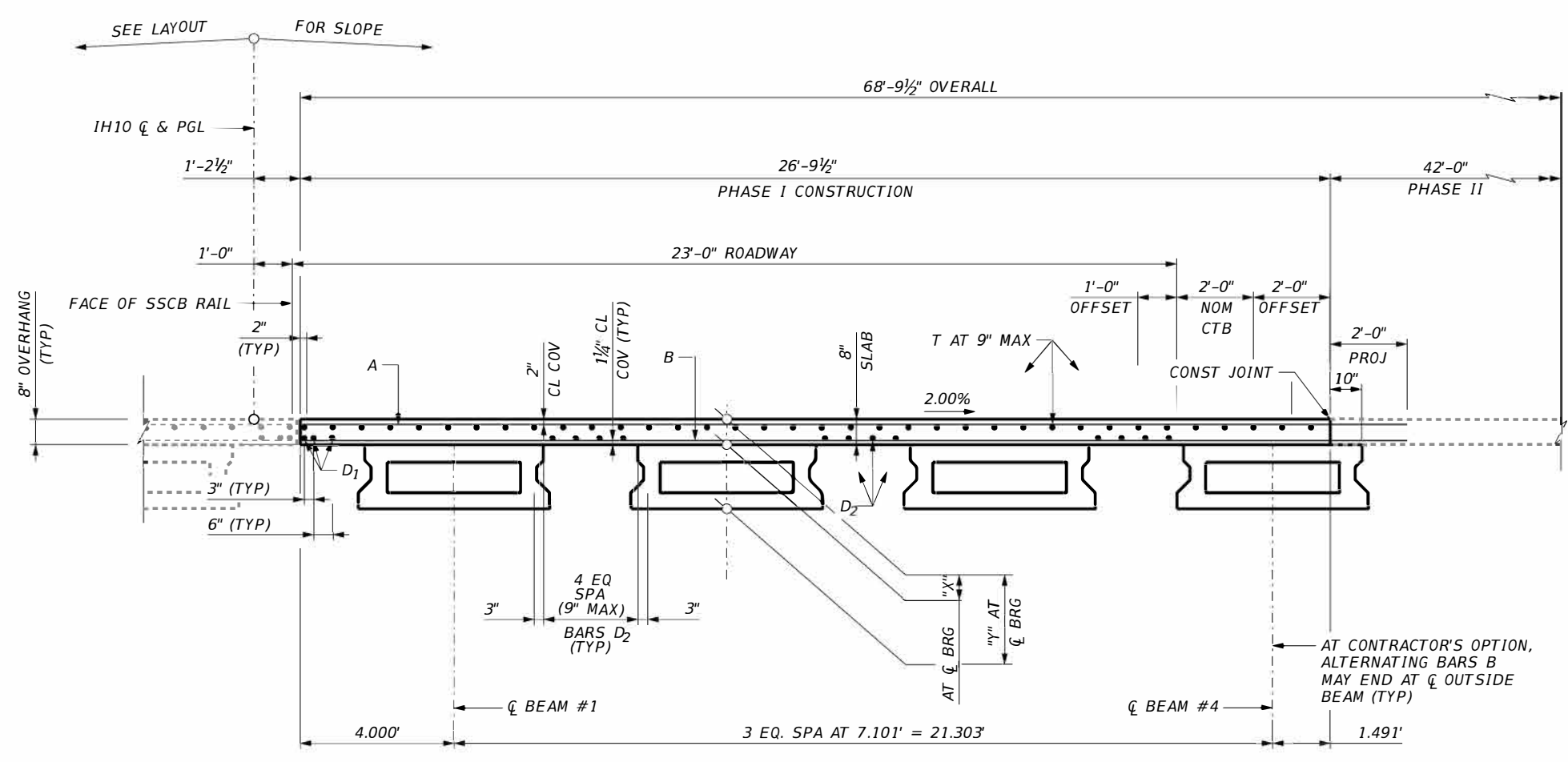
TOP OF COLUMN ELEVATIONS		
COL	ELEV	
	BENT 2	BENT 3
1	3905.965'	3906.236'
2	3906.180'	3906.450'
3	3906.394'	3906.665'
4	3906.608'	3906.879'



IH 10 WIDENING (NMSL/SPUR 37)
BENT NO. 2 & 3
PHASE II
ARROYO 46 RELIEF #DB BRIDGE
IH 10 WB
(STA 112+96 TO STA 114+96)

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
ELP	EL PASO	2121	01
			JOB NO.
			104
			SHEET NO.
			652



TYPICAL TRANSVERSE SECTION PHASE I
(5XB20) SPANS 1 THRU 3

BAR TABLE PHASE I

BAR	SIZE
A	#5
B	#5
D1	#5
D2	#5
G	#5
H	#5
J	#5
J	#5
M	#5
K	#5
M	#5
T	#4

GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.

HL93 LOADING

NOT TO SCALE

4/23/2024

REVISED 04-23-2024

NO. DATE REVISION APPROV

TABLE OF ESTIMATED QUANTITIES PHASE I

SPAN NO.	REINF CONCRETE SLAB NO.	PRESTR CONCRETE X-BEAMS (5XB20) LF	CLASS "S" CONCRETE CY	TOTAL REINF STEEL LB
1	1,554	230.00	45.83	10,101
2	1,715	254.00	45.65	11,146
3	1,554	230.00	45.83	10,101
TOTAL	4,823	714.00	137.31	31,348

TABLE OF SECTION DEPTHS FOR PHASE I

SPAN NO.	BEAM NO.	"X" IN	"Y" IN
1	1-4	11 1/2	31 1/2
2	1-4	11 1/2	31 1/2
3	1-4	11 1/2	31 1/2

F-12040

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Texas Department of Transportation

IH 10 WIDENING (NM/SPUR 37) PRESTRESSED CONCRETE X-BEAM (5XB20) UNITS PHASE I

ARROYO 45 RELIEF #1A BRIDGE
IH10 EB
(STA 158+76 TO STA 160+56)

SHEET 2 OF 2

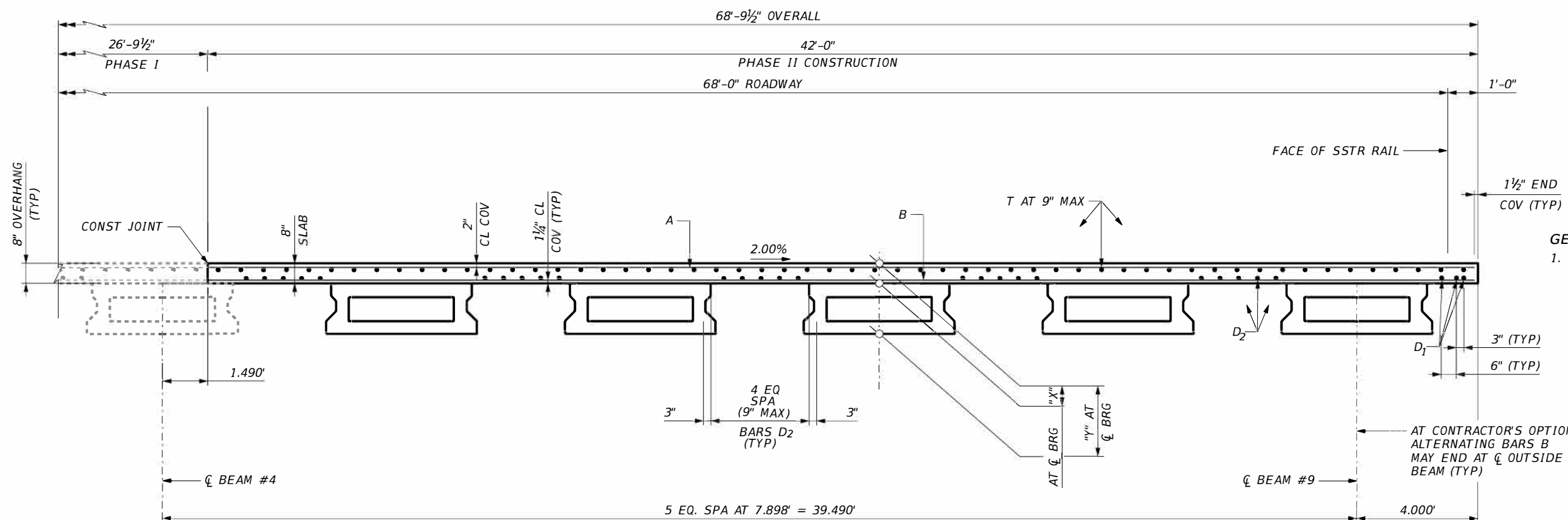
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10

STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	675

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BAR TABLE PHASE II

BAR	SIZE
A	#5
B	#5
D1	#5
D2	#5
G	#5
H	#5
J	#5
M	#5
T	#4



GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.

TYPICAL TRANSVERSE SECTION PHASE II
(5XB20) SPANS 1 THRU 3

HL93 LOADING

NOT TO SCALE



NO.	DATE	REVISION	APPROV.
1	04/13/24	REVISED	EM



IH 10 WIDENING (NM/SPUR 37)
PRESTRESSED CONCRETE
X-BEAM (5XB20) UNITS
PHASE II
ARROYO 45 RELIEF #1A BRIDGE
IH10 EB
(STA 158+76 TO STA 160+56)

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
ELP	EL PASO	2121	01
JOB NO.	SHEET NO.	104	677

TABLE OF ESTIMATED QUANTITIES PHASE II

SPAN NO.	REINF CONCRETE SLAB	PRESTR CONCRETE X-BEAMS (5XB20)	CLASS "S" CONCRETE	TOTAL REINF STEEL
	SF	LF	CY	LB
1	2,436	287.50	69.89	15,834
2	2,688	317.50	69.25	17,472
3	2,436	287.50	69.89	15,834
TOTAL	7,560	892.50	209.05	49,140

TABLE OF SECTION DEPTHS FOR PHASE II

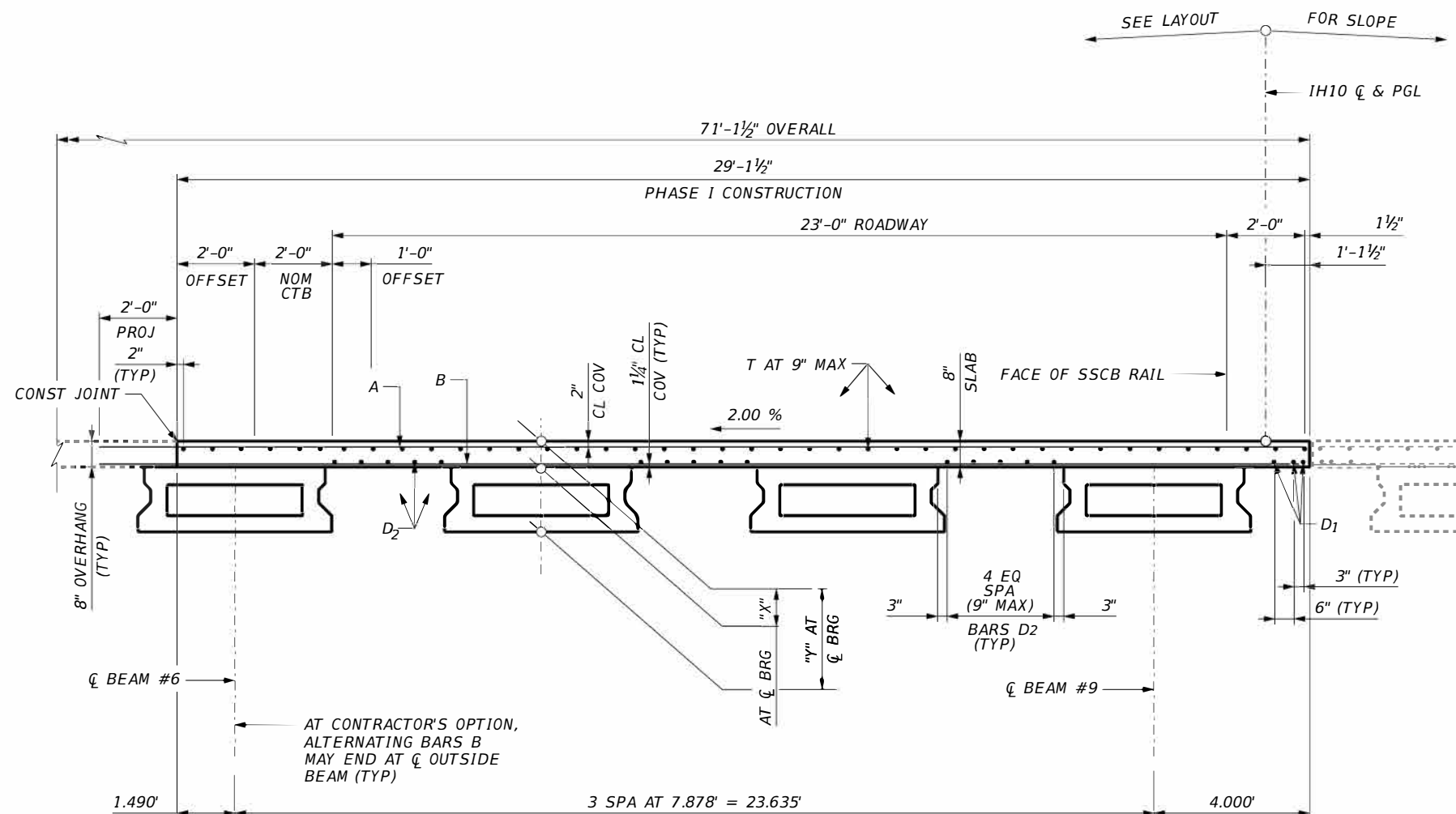
SPAN NO.	BEAM NO.	"X" IN	"Y" IN
1	5-9	11 1/2	31 1/2
2	5-9	11 1/2	31 1/2
3	5-9	11 1/2	31 1/2



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BAR TABLE PHASE I

BAR	SIZE
A	#5
B	#5
D1	#5
D2	#5
G	#5
H	#5
J	#5
J	#5
M	#5
K	#5
M	#5
T	#4



TYPICAL TRANSVERSE SECTION PHASE I
(5XB20) SPANS 1 THRU 3

GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.

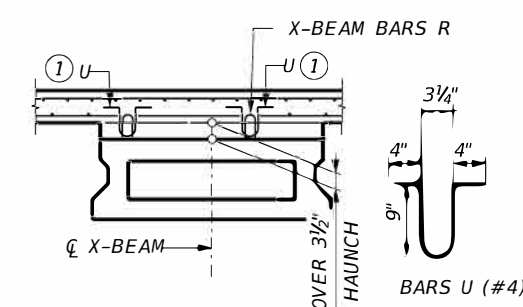
KEYED NOTES
① SPACE BARS U WITH BEAM BARS R IN ALL AREAS WHERE MEASURED HAUNCH EXCEEDS 3 1/2".

HL93 LOADING

NOT TO SCALE

4/23/2024

REVISION 04-15-24



HAUNCH REINFORCING DETAIL

TABLE OF ESTIMATED QUANTITIES PHASE I

SPAN NO.	REINF CONCRETE SLAB	PRESTR CONCRETE X-BEAMS (5XB20)	CLASS "S" CONCRETE	TOTAL REINF STEEL
	SF	LF	CY	LB
1	1,689	230.00	48.46	10,981
2	1,864	254.00	48.08	12,116
3	1,689	230.00	48.46	10,981
TOTAL	5,243	714.00	145.01	34,078

TABLE OF SECTION DEPTHS FOR PHASE I

SPAN NO.	BEAM NO.	"X" IN	"Y" IN
1	6-9	11 3/4	31 3/4
2	6-9	11 3/4	31 3/4
3	6-9	11 3/4	31 3/4

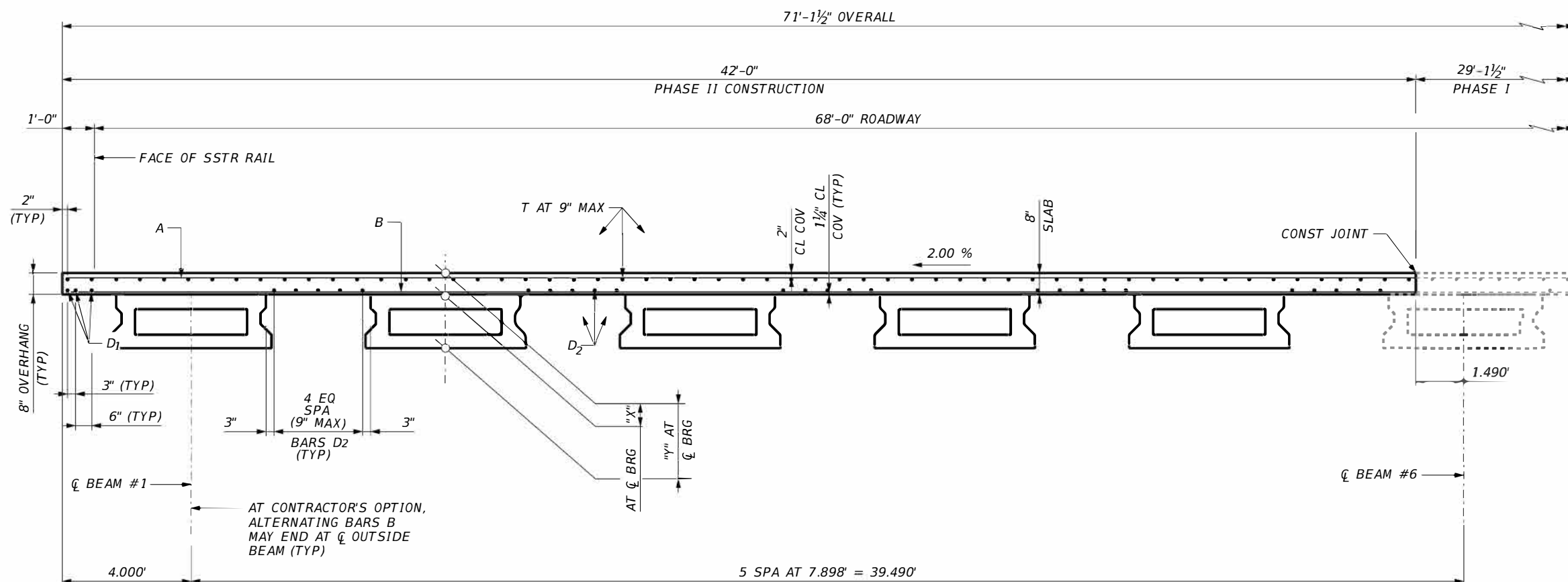


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FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	694

BAR TABLE PHASE II

BAR	SIZE
A	#5
B	#5
D1	#5
D2	#5
G	#5
H	#5
J	#5
M	#5
T	#4



TYPICAL TRANSVERSE SECTION PHASE II
(5XB20) SPANS 1 THRU 3

GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.

HL93 LOADING

NOT TO SCALE



4/23/2024

NO.	DATE	REVISION	APPROV.
	04/15/24	REVISED 4-15-24	EM



**IH 10 WIDENING (NM/SPUR 37)
PRESTRESSED CONCRETE
X-BEAM (5XB20) UNITS
PHASE II**
ARROYO 45 RELIEF #1B BRIDGE
IH10 WB
(STA 158+76 TO STA 160+56)

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	696

TABLE OF ESTIMATED QUANTITIES PHASE II

SPAN NO.	REINF CONCRETE SLAB	PRESTR CONCRETE X-BEAMS (5XB20)	CLASS "S" CONCRETE	TOTAL REINF STEEL
	SF	LF	CY	LB
1	2,436	287.50	68.86	15,834
2	2,688	317.50	68.12	17,472
3	2,436	287.50	68.86	15,834
TOTAL	7,560	892.50	205.85	49,140

TABLE OF SECTION DEPTHS FOR PHASE II

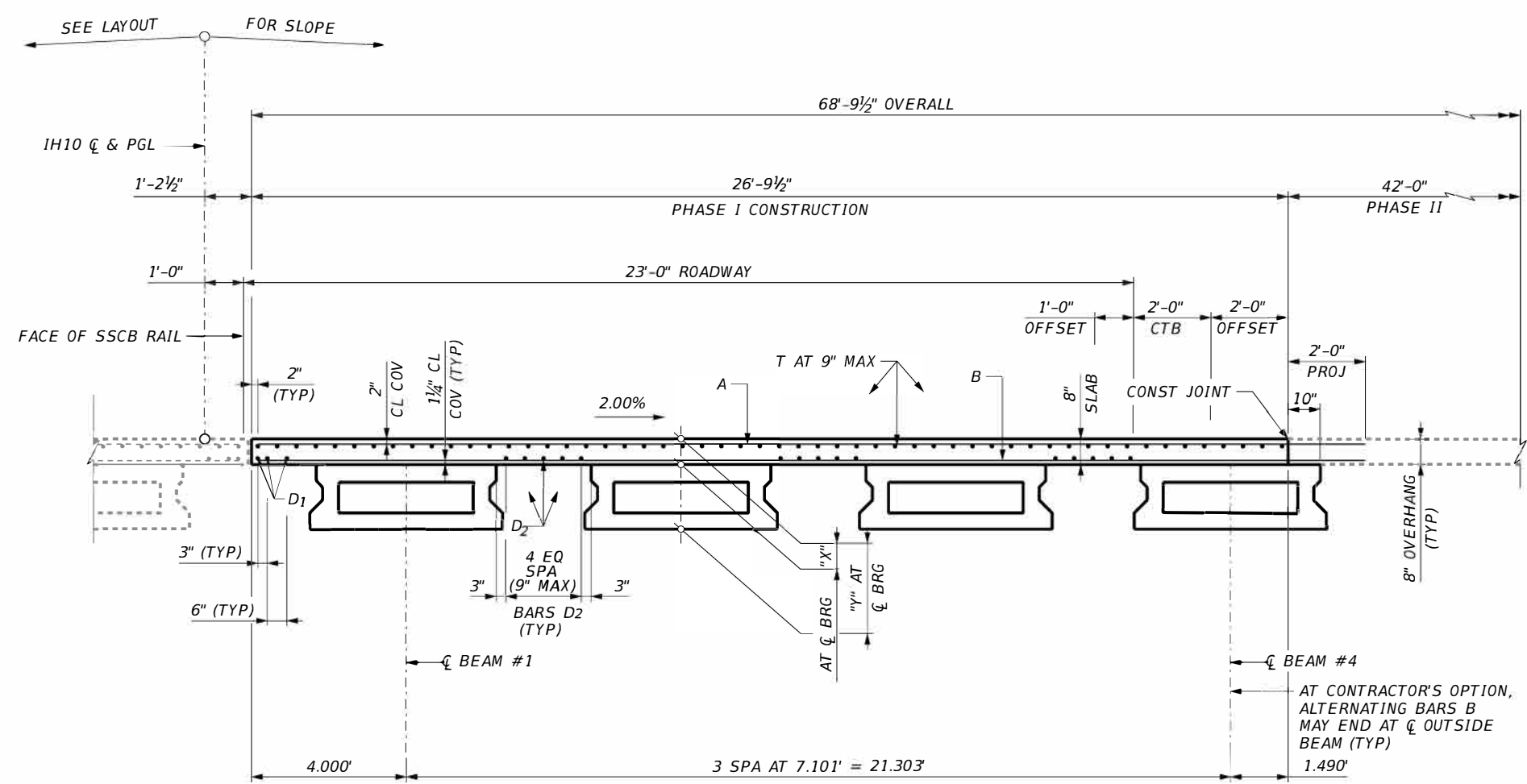
SPAN NO.	BEAM NO.	"X" IN	"Y" IN
1	1-5	11 3/4	31 3/4
2	1-5	11 3/4	31 3/4
3	1-5	11 3/4	31 3/4



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BAR TABLE PHASE I

BAR	SIZE
A	#5
B	#5
D	#5
G	#5
H	#5
J	#5
J	#5
M	#5
K	#5
M	#5
T	#4



TYPICAL TRANSVERSE SECTION PHASE I
(5XB20) SPANS 1 THRU 3

GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.

HL93 LOADING

NOT TO SCALE

4/23/2024

REVISION: 04/15/24 REVISED 4-15-24

TABLE OF ESTIMATED QUANTITIES PHASE I

SPAN NO.	REINF CONCRETE SLAB SF	PRESTR CONCRETE X-BEAMS (5XB20) LF	CLASS "S" CONCRETE CY	TOTAL REINF STEEL LB
1	1,554	230.00	45.42	10,101
2	1,715	254.00	50.08	11,146
3	1,554	230.00	45.42	10,101
TOTAL	4,823	714.00	140.91	31,348

TABLE OF SECTION DEPTHS FOR PHASE I

SPAN NO.	BEAM NO.	"X" IN	"Y" IN
1	1-4	11 1/4	31 1/4
2	1-4	11 3/4	31 3/4
3	1-4	11 1/4	31 1/4

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Texas Department of Transportation

IH 10 WIDENING (NM/SPUR 37) PRESTRESSED CONCRETE X-BEAM (5XB20) UNITS PHASE I
MIDDLE ARROYO #2A BRIDGE
IH10 EB
(STA 172+03 TO STA 173+83)

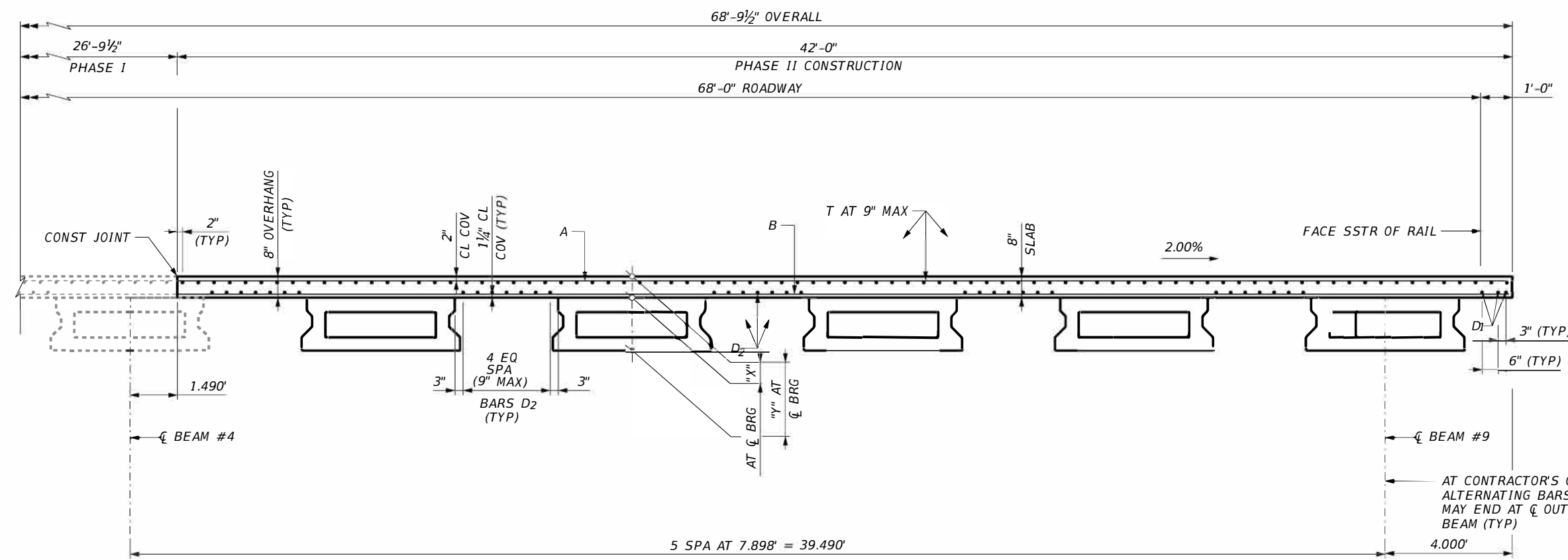
SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
ELP	EL PASO	2121	01
			JOB NO.
			104
			SHEET NO.
			713

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BAR TABLE PHASE II

BAR	SIZE
A	#5
B	#5
D	#5
G	#5
H	#5
J	#5
M	#5
T	#4



GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.

TYPICAL TRANSVERSE SECTION PHASE II
(5XB20) SPANS 1 THRU 3

HL93 LOADING

NOT TO SCALE



4/23/2024

NO.	DATE	REVISION	APPROV.
1	04/15/24	REVISED 04-15-24	EM

SPAN NO.	REINF CONCRETE SLAB SF	PRESTR CONCRETE X-BEAMS (5XB20) LF	CLASS "S" CONCRETE CY	TOTAL REINF STEEL LB
1	2,436	287.50	69.38	15,834
2	2,688	317.50	76.04	17,472
3	2,436	287.50	69.38	15,834
TOTAL	7,560	892.50	214.81	49,140

SPAN NO.	BEAM NO.	"X" IN	"Y" IN
58	5-9	11 1/4	31 1/4
64	5-9	11 3/4	31 3/4
58	5-9	11 1/4	31 1/4



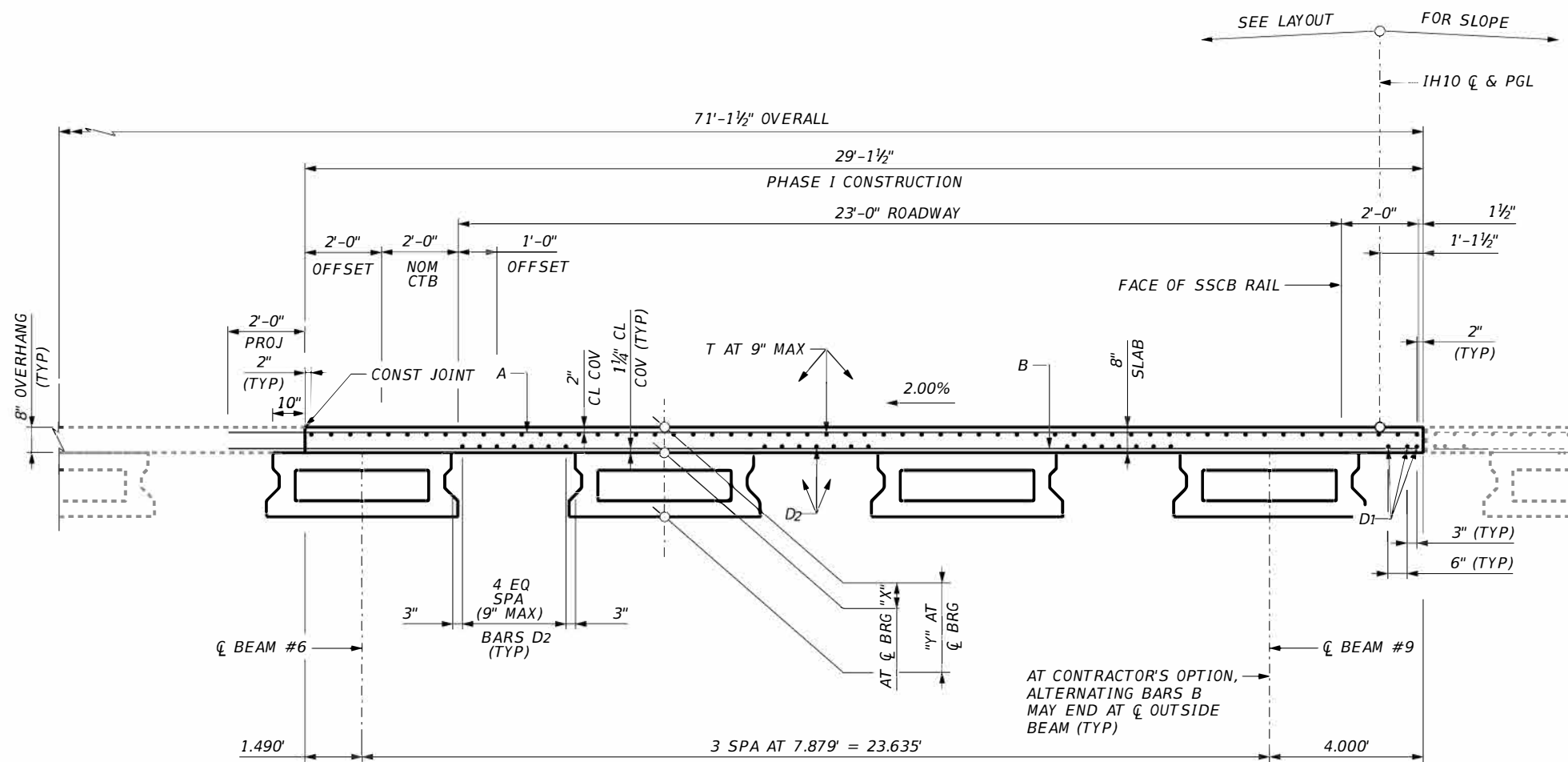
IH 10 WIDENING (NM/SPUR 37)
PRESTRESSED CONCRETE X-BEAM (5XB20) UNITS
PHASE II
MIDDLE ARROYO #2A BRIDGE
IH10 EB
(STA 172+03 TO STA 173+83)

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 10
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
ELP	EL PASO	2121	01
			JOB NO.
			104
			SHEET NO.
			715

BAR TABLE PHASE I

BAR	SIZE
A	#5
B	#5
D	#5
G	#5
H	#5
J	#5
J	#5
M	#5
K	#5
M	#5
T	#4



TYPICAL TRANSVERSE SECTION PHASE I

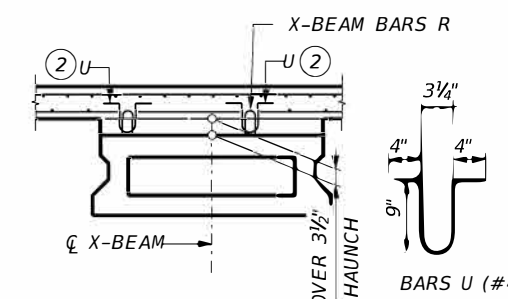
(5XB20) SPANS 1 THRU 3

GENERAL NOTES

1. SEE SHEET 1 FOR NOTES.

KEYED NOTES

① SPACE BARS U WITH BEAM BARS R IN ALL AREAS WHERE MEASURED HAUNCH EXCEEDS 3 1/2".



HAUNCH REINFORCING DETAIL

TABLE OF ESTIMATED QUANTITIES PHASE I

SPAN NO.	REINF CONCRETE SLAB	PRESTR CONCRETE X-BEAMS (5XB20)	CLASS "S" CONCRETE	TOTAL REINF STEEL
	SF	LF	CY	LB
1	1,689	230.00	49.29	10,981
2	1,864	254.00	48.31	12,116
3	1,689	230.00	49.29	10,981
TOTAL	5,243	714.00	146.88	34,078

TABLE OF SECTION DEPTHS FOR PHASE I

SPAN NO.	BEAM NO.	"X" IN	"Y" IN
1	6 - 9	11 1/2	31 1/2
2	6 - 9	12	32
3	6 - 9	11 1/2	31 1/2

HL93 LOADING

NOT TO SCALE



4/23/2024

NO.	DATE	REVISION	APPROV.
	04/15/24	REVISED 04-15-24	EM



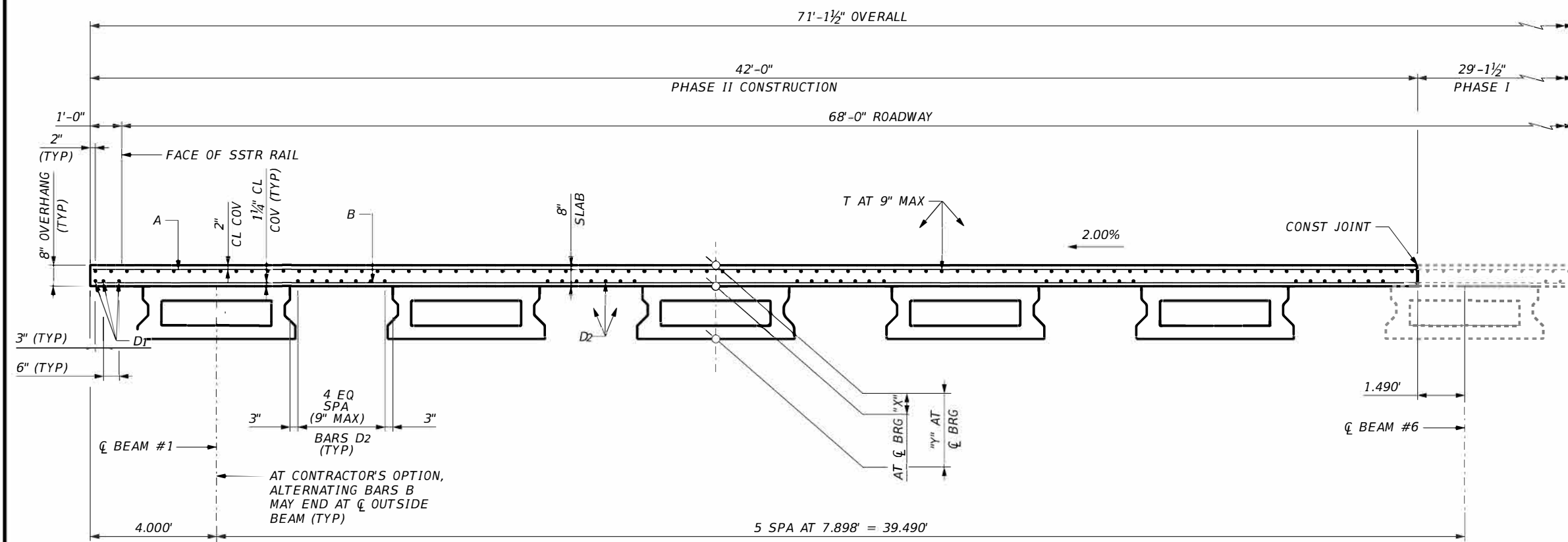
IH 10 WIDENING (NM/SPUR 37) PRESTRESSED CONCRETE X-BEAM (5XB20) UNITS PHASE I
MIDDLE ARROYO #2B BRIDGE
 IH10 WB
 (STA 172+03 TO STA 173+83)

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	732

BAR TABLE PHASE II

BAR	SIZE
A	#5
B	#5
D	#5
G	#5
H	#5
J	#5
M	#5
T	#4



TYPICAL TRANSVERSE SECTION PHASE II

(5XB20) SPANS 1 THRU 3

GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.

HL93 LOADING

NOT TO SCALE



4/23/2024

REVISED 4-15-24

TABLE OF ESTIMATED QUANTITIES PHASE II

SPAN NO.	REINF CONCRETE SLAB	PRESTR CONCRETE X-BEAMS (5XB20)	CLASS "S" CONCRETE	TOTAL REINF STEEL
	SF	LF	CY	LB
1	2,436	287.50	69.89	15,834
2	2,688	317.50	68.39	17,472
3	2,436	287.50	69.89	15,834
TOTAL	7,560	892.50	208.19	49,140

TABLE OF SECTION DEPTHS FOR PHASE II

SPAN LENGTH NO.	BEAM NO.	"X" IN	"Y" IN
58	1 - 5	11 1/2	31 1/2
64	1 - 5	12	32
58	1 - 5	11 1/2	31 1/2



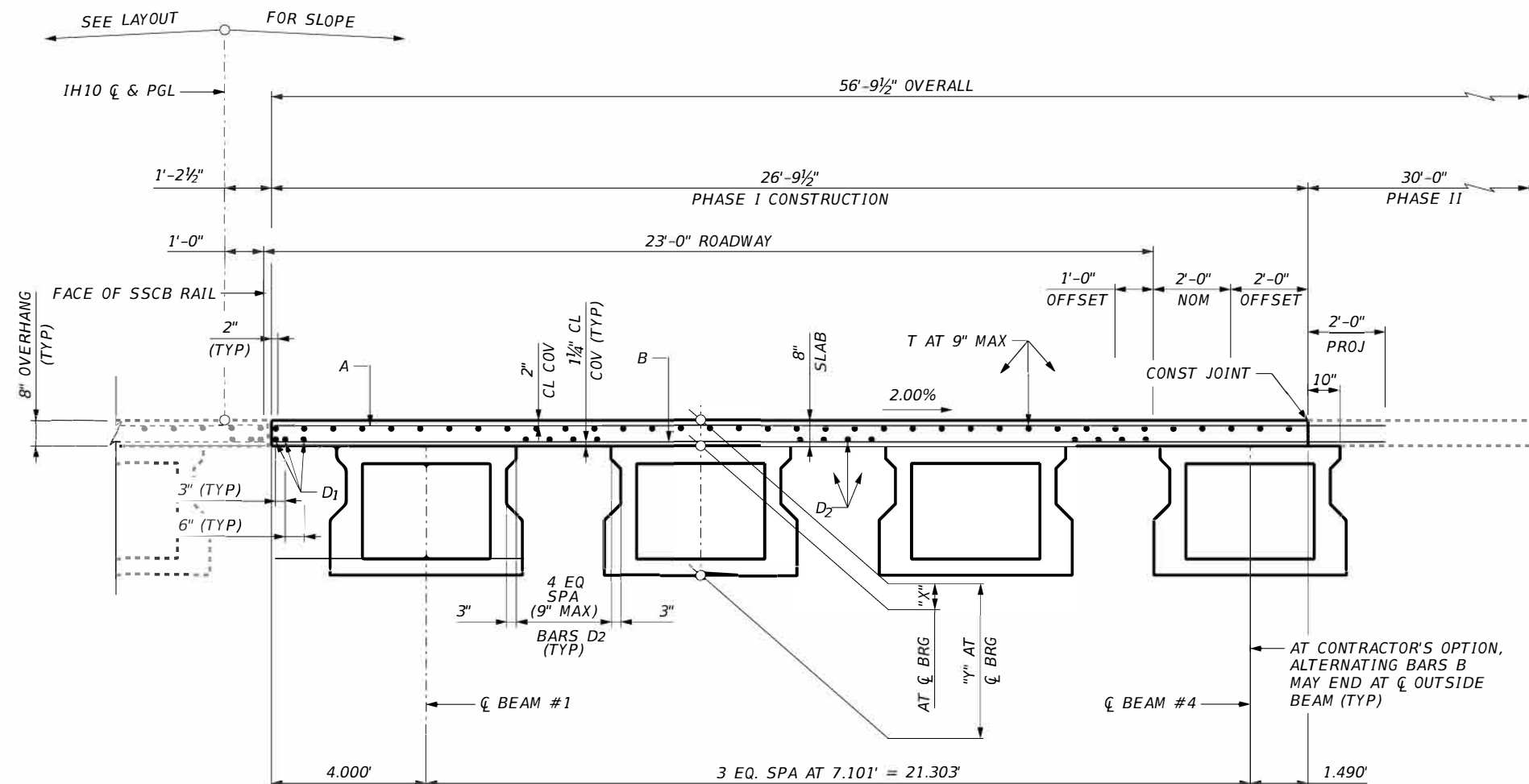
IH 10 WIDENING (NM/SPUR 37)
PRESTRESSED CONCRETE
X-BEAM (5XB20) UNITS
PHASE II
MIDDLE ARROYO #2B BRIDGE
IH10 WB
(STA 172+03 TO STA 173+83)

SHEET 2 OF 2

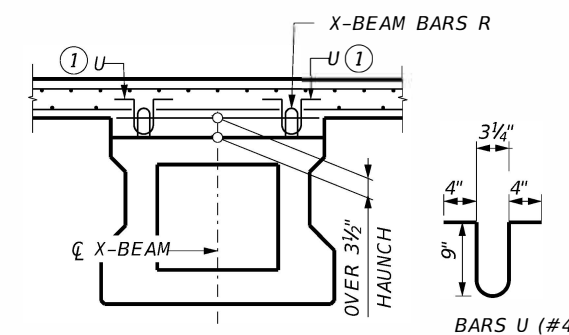
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	734

BAR TABLE PHASE I

BAR	SIZE
A	#5
B	#5
D1	#5
D2	#5
G	#5
H	#5
J	#5
J	#5
M	#5
K	#5
M	#5
T	#4



TYPICAL TRANSVERSE SECTION PHASE I
(5XB40) SPAN 1



HAUNCH REINFORCING DETAIL

HL93 LOADING

NOT TO SCALE

TABLE OF ESTIMATED QUANTITIES PHASE I

SPAN	REINF CONCRETE SLAB	PRESTR CONCRETE X-BEAMS (5XB40)		CLASS "S" CONCRETE	TOTAL REINF STEEL
		NO.	LF		
NO.	SF				
1	2,680	398.00	79.88	17,420	
TOTAL	2,680	398.00	79.88	17,420	

TABLE OF SECTION DEPTHS FOR PHASE I

SPAN	BEAM	"X"	"Y"
NO.	NO.	IN	IN
1	1-4	12	52

NO.	DATE	REVISION	APPROV.
	04/15/24	REVISED 4-15-24	EM

IH 10 WIDENING (NM/SPUR 37) PRESTRESSED CONCRETE X-BEAM (5XB40) UNITS PHASE I
MIDDLE ARROYO #3A BRIDGE
IH10 EB
(STA 184+93 TO STA 185+93)

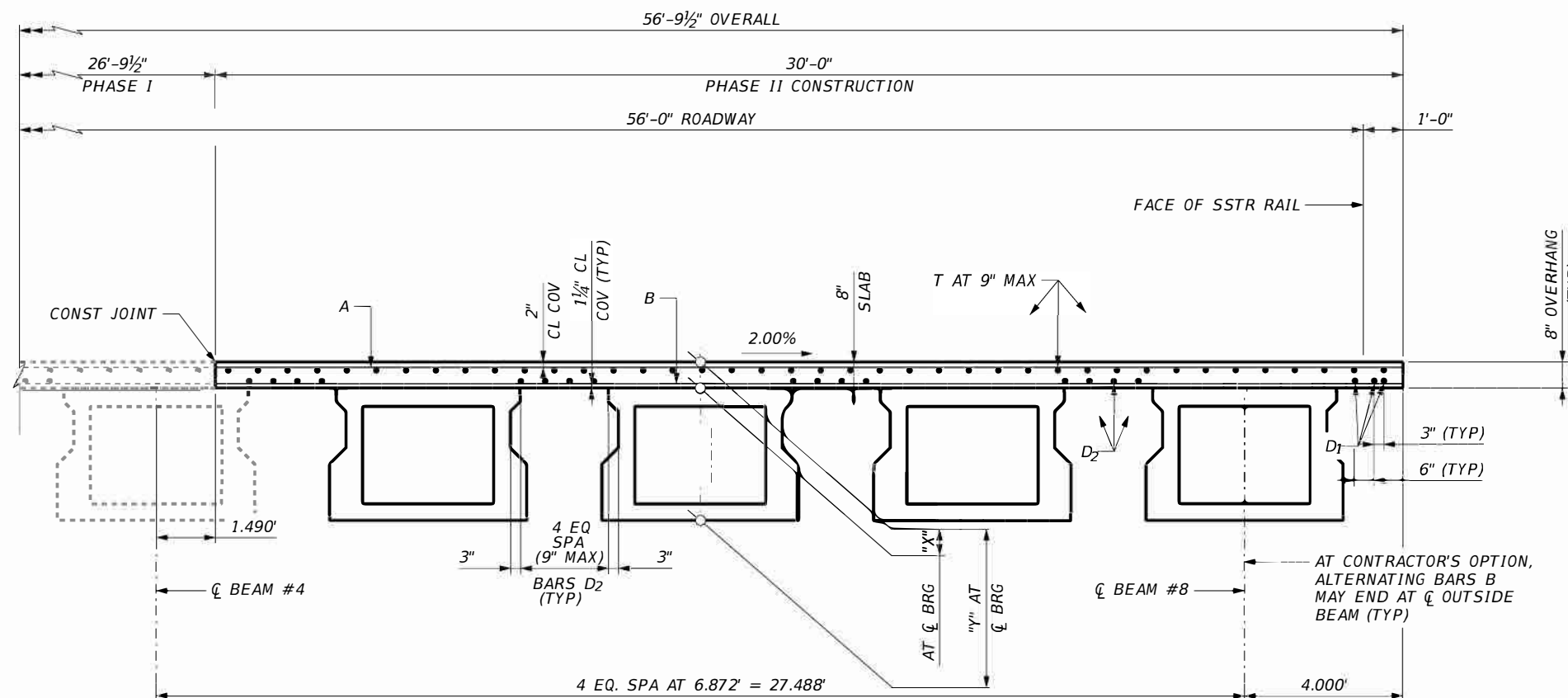
SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	747

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BAR TABLE PHASE II

BAR	SIZE
A	#5
B	#5
D1	#5
D2	#5
G	#5
H	#5
J	#5
M	#5
T	#4



TYPICAL TRANSVERSE SECTION PHASE II
(5XB40) SPAN 1

GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.

HL93 LOADING

NOT TO SCALE



4/23/2024

NO.	DATE	REVISION	APPROV.
	04/15/24	REVISED 4-15-24	EM



F-12040



IH 10 WIDENING (NM/SPUR 37)
PRESTRESSED CONCRETE
X-BEAM (5XB40) UNITS
PHASE II
MIDDLE ARROYO #3A BRIDGE
IH10 EB
(STA 184+93 TO STA 185+93)

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	749

TABLE OF ESTIMATED QUANTITIES PHASE II

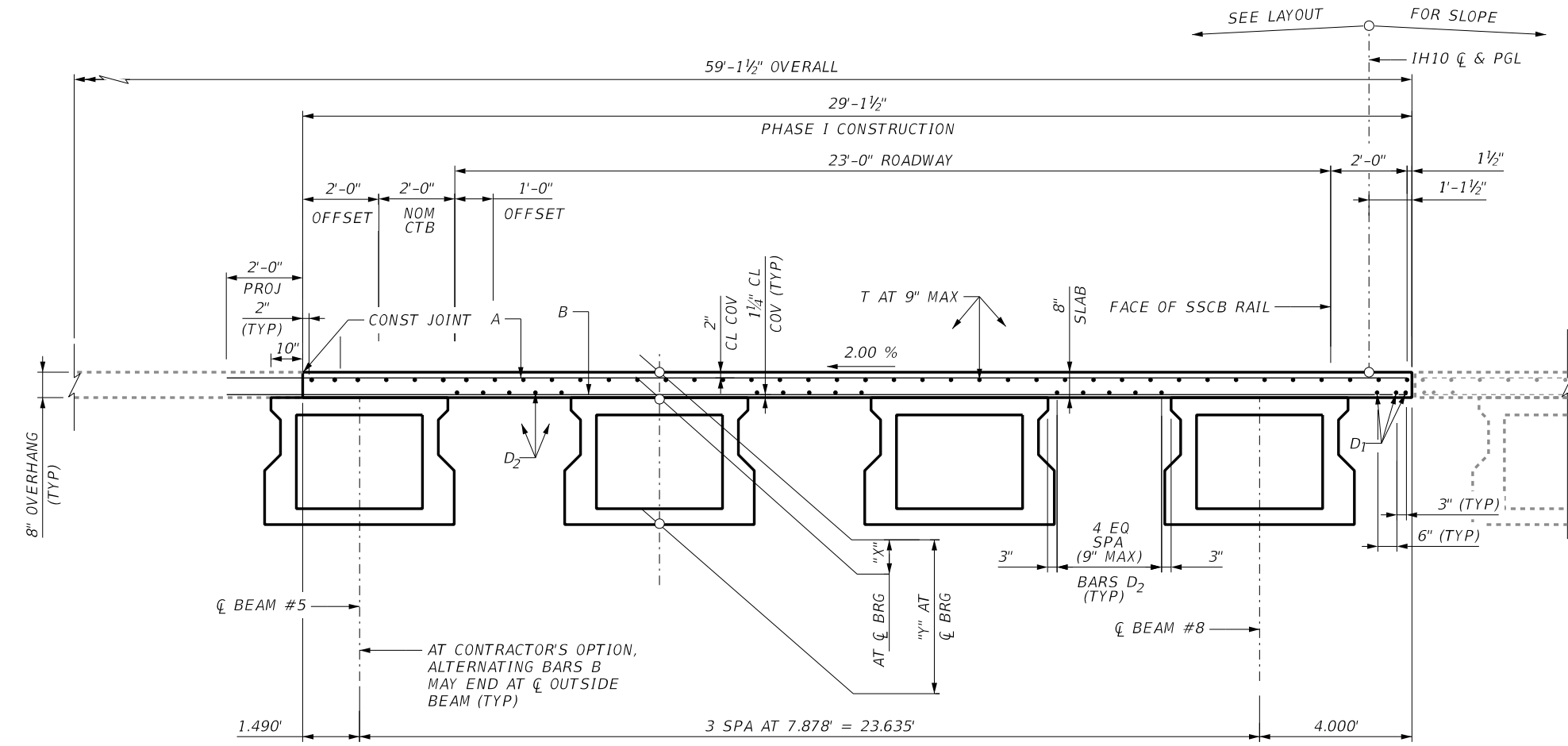
SPAN	REINF CONCRETE SLAB	PRESTR CONCRETE X-BEAMS (5XB40)	CLASS "S" CONCRETE	TOTAL REINF STEEL
NO.	SF	LF	CY	LB
1	3,000	398.00	83.66	19,500
TOTAL	3,000	398.00	83.66	19,500

TABLE OF SECTION DEPTHS FOR PHASE II

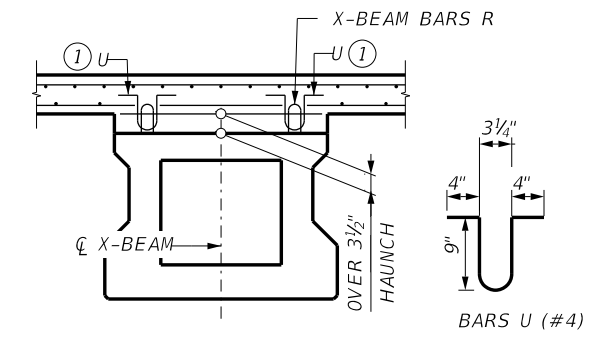
SPAN	BEAM	"X"	"Y"
NO.	NO.	IN	IN
1	5-8	12	52

BAR TABLE PHASE I

BAR	SIZE
A	#5
B	#5
D1	#5
D2	#5
G	#5
H	#5
J	#5
J	#5
M	#5
K	#5
M	#5
T	#4



TYPICAL TRANSVERSE SECTION PHASE I
(5XB40) SPAN 1



HAUNCH REINFORCING DETAIL

TABLE OF ESTIMATED QUANTITIES PHASE I

SPAN	REINF CONCRETE SLAB		PRESTR CONCRETE X-BEAMS (5XB40)	CLASS "S" CONCRETE	TOTAL REINF STEEL
	NO.	SF			
1		2,913	398.00	85.75	18,935
TOTAL		2,913	398.00	85.75	18,935

TABLE OF SECTION DEPTHS FOR PHASE I

SPAN	BEAM	"X"	"Y"
NO.	NO.	IN	IN
1	5-8	12	52

GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.

KEYED NOTES
① SPACE BARS U WITH BEAM BARS R IN ALL AREAS WHERE MEASURED HAUNCH EXCEEDS 3 1/2".

HL93 LOADING

NOT TO SCALE

REVISION	DATE	APPROV.
REVISOR	DATE	APPROV.

IH 10 WIDENING (NM/SPUR 37) PRESTRESSED CONCRETE X-BEAM (5XB40) UNITS PHASE I
MIDDLE ARROYO #3B BRIDGE
IH10 WB
(STA 184+93 TO STA 185+93)

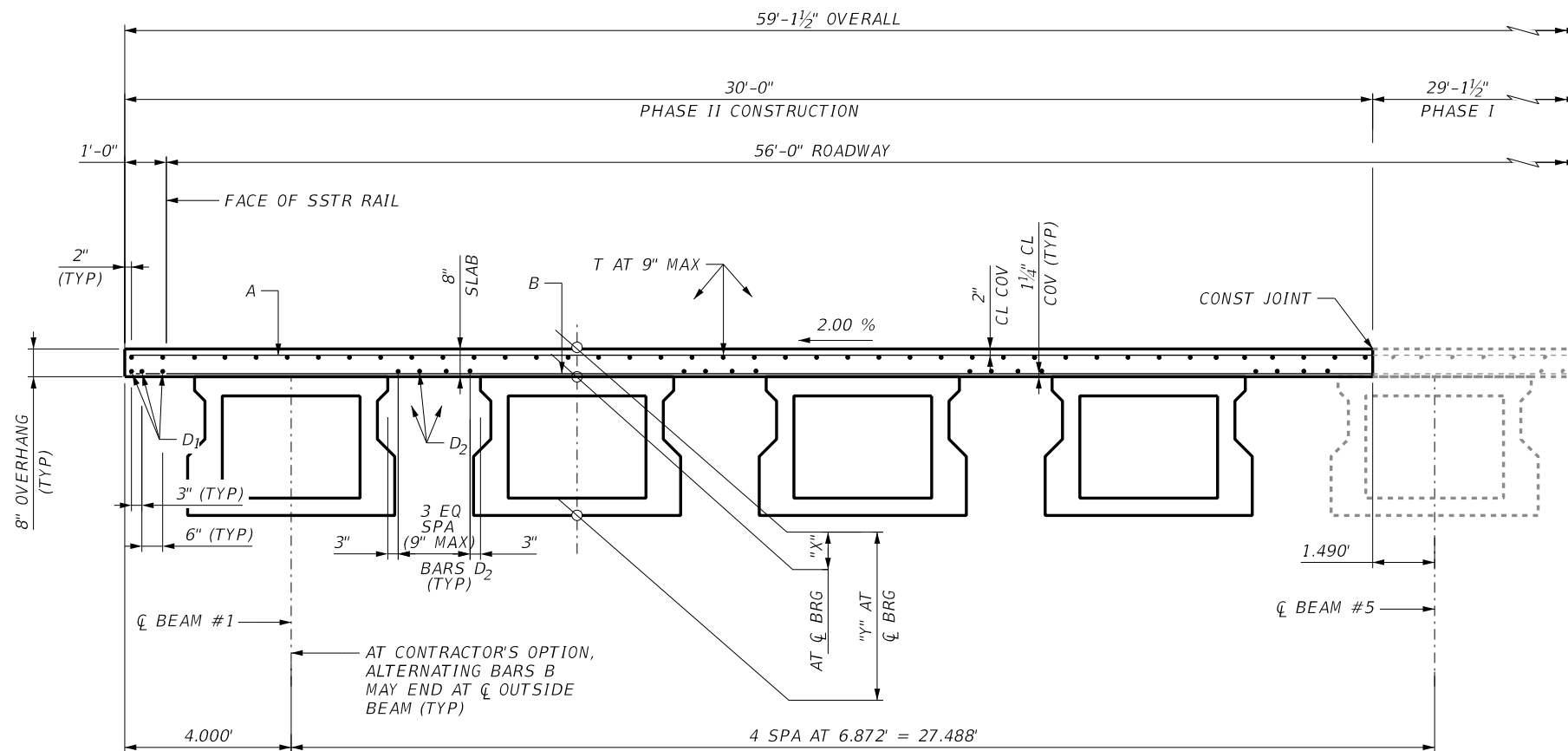
SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	762

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BAR TABLE PHASE II

BAR	SIZE
A	#5
B	#5
D1	#5
D2	#5
G	#5
H	#5
J	#5
M	#5
T	#4



TYPICAL TRANSVERSE SECTION PHASE II

(5XB40) SPAN 1

GENERAL NOTES
1. SEE SHEET 1 FOR NOTES.

HL93 LOADING

NOT TO SCALE



4/23/2024

NO.	DATE	REVISION	APPROV.



IH 10 WIDENING (NM/SPUR 37)
PRESTRESSED CONCRETE
X-BEAM (5XB40) UNITS
PHASE II
MIDDLE ARROYO #3B BRIDGE
IH10 WB
(STA 184+93 TO STA 185+93)

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 10		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
ELP	EL PASO	2121	01	104	764

TABLE OF ESTIMATED QUANTITIES PHASE II

SPAN	REINF CONCRETE SLAB	PRESTR CONCRETE X-BEAMS (5XB40)	CLASS "S" CONCRETE		TOTAL REINF STEEL
			NO.	CY	
NO.	SF	LF			LB
1	3,000	398.00	87.94		19,500
TOTAL	3,000	398.00	87.94		19,500

TABLE OF SECTION DEPTHS FOR PHASE II

SPAN	BEAM	"X"	"Y"
NO.	NO.	IN	IN
1	1-4	12	52