

The attached plan sheets are for informational purposes only and should not be considered a substitute for field verification.

Revised 11-4-93

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THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE, PLUS SHEET 8 HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

Marco A. Hernandez P.E. 3-20-92 DATE
MARCO A. HERNANDEZ



CONVENTIONAL SIGNS

- STATE OR NATIONAL LINE
- CITY OR VILLAGE
- COUNTY LINE
- BASE OR SURVEY LINE
- RIGHT OF WAY LINE
- RIGHT OF WAY MARKERS
- FENCE LINE
- RAILROAD
- TRAVELLED WAY
- CULVERT OR BRIDGE
- POWER LINE
- TELEGRAPH OR TELEPHONE
- CONTROL OF ACCESS

SPECIFICATIONS ADOPTED BY THE STATE DEPARTMENT OF HIGHWAYS & PUBLIC TRANSPORTATION OF TEXAS, SEPTEMBER 1, 1982, AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS, ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, APRIL, 1993).

EQUATIONS: THREE
EXCEPTIONS: NONE
RAILROAD CROSSING: NONE

- 1) STA. 155+95.75 (B) BK= STA. 10155+91.14 (B) FWD (+4.61)
- 2) STA. 10172+91.46 (B) BK= STA. 20172+88.13 (B) FWD (+3.33)
- 3) STA. 20203+38.45 (B) BK= STA. 30203+37.89 (B) FWD (+0.56) +8.50 FT. = +0.002 MI

STATE OF TEXAS
TEXAS DEPARTMENT OF TRANSPORTATION

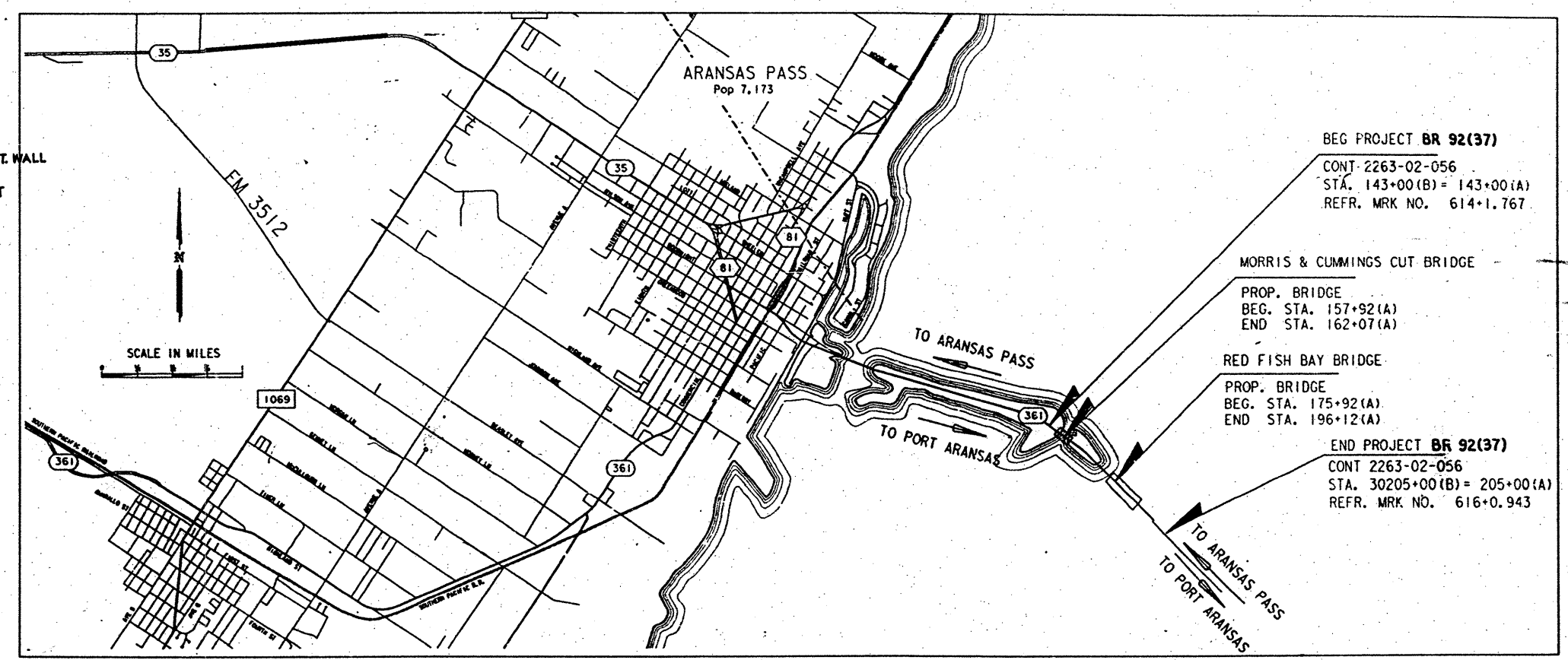
PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

PROJECT NO. BR 92(37)
NET LENGTH OF PROJECT = 6208.50 FT. = 1.175 MI
ROADWAY 3773.50 FT = 0.714 MI
BRIDGE 2435.00 FT = 0.461 MI
COUNTY: NUECES
HIGHWAY: S.H. 361

LIMITS: @ MORRIS & CUMMINGS CUT AND @ RED FISH BAY BRIDGES
CONSTRUCTION OF THE REPLACEMENT OF EXISTING BRIDGE FACILITIES
CONSISTING OF WIDENING, GRADING, FLEX BASE, HMACP SURFACE & BRIDGE STRUCTURES.

DESIGN SPEED	60 MPH	2263-02-056
PRESENT (1992) ADT		4700
FUTURE (2012) ADT		12000
DESIGN HOURLY VOL.		16.7 %
DIRECTIONAL DIST.		68-32 %
PERCENT TRUCK ADT		2.3 %

8272-03



BEG PROJECT BR 92(37)
CONT. 2263-02-056
STA. 143+00 (B) = 143+00 (A)
REFR. MKR NO. 614+1.767

MORRIS & CUMMINGS CUT BRIDGE
PROP. BRIDGE
BEG. STA. 157+92 (A)
END STA. 162+07 (A)
RED FISH BAY BRIDGE
PROP. BRIDGE
BEG. STA. 175+92 (A)
END STA. 196+12 (A)

END PROJECT BR 92(37)
CONT. 2263-02-056
STA. 30205+00 (B) = 205+00 (A)
REFR. MKR NO. 616+0.943

TEXAS DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR LETTING: March 20, 1992
William D. White P.E.
DISTRICT DESIGN ENGINEER

RECOMMENDED FOR LETTING: 3-20-92
Preston R. Bolwick
SUPERVISING AREA ENGINEER

RECOMMENDED FOR LETTING: 3/22 1992
L. Buttrick, Jr.
DISTRICT ENGINEER

APPROVED FOR LETTING: [Signature]

APPROVED FOR LETTING: 4-15-93
[Signature]

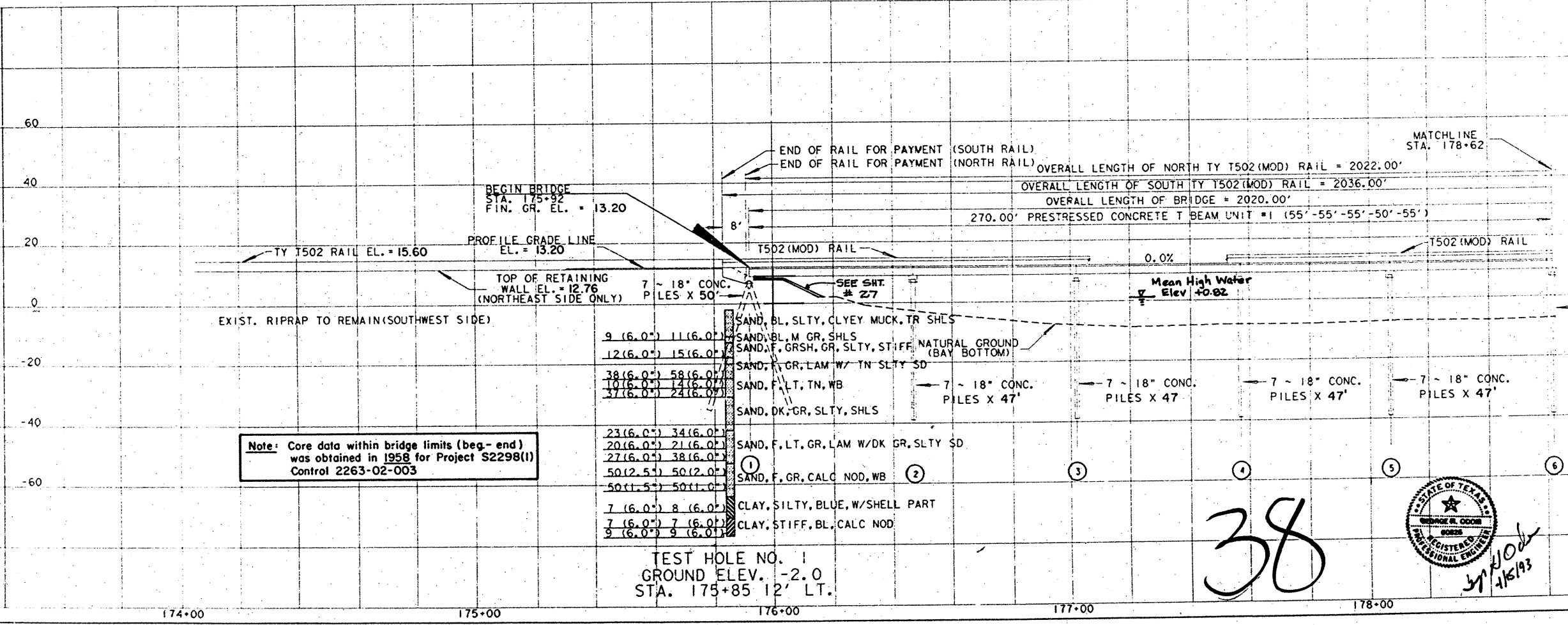
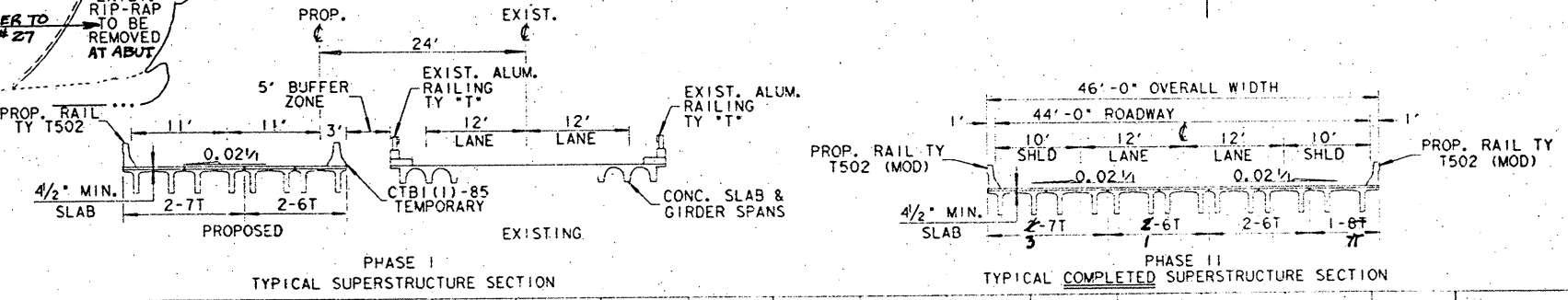
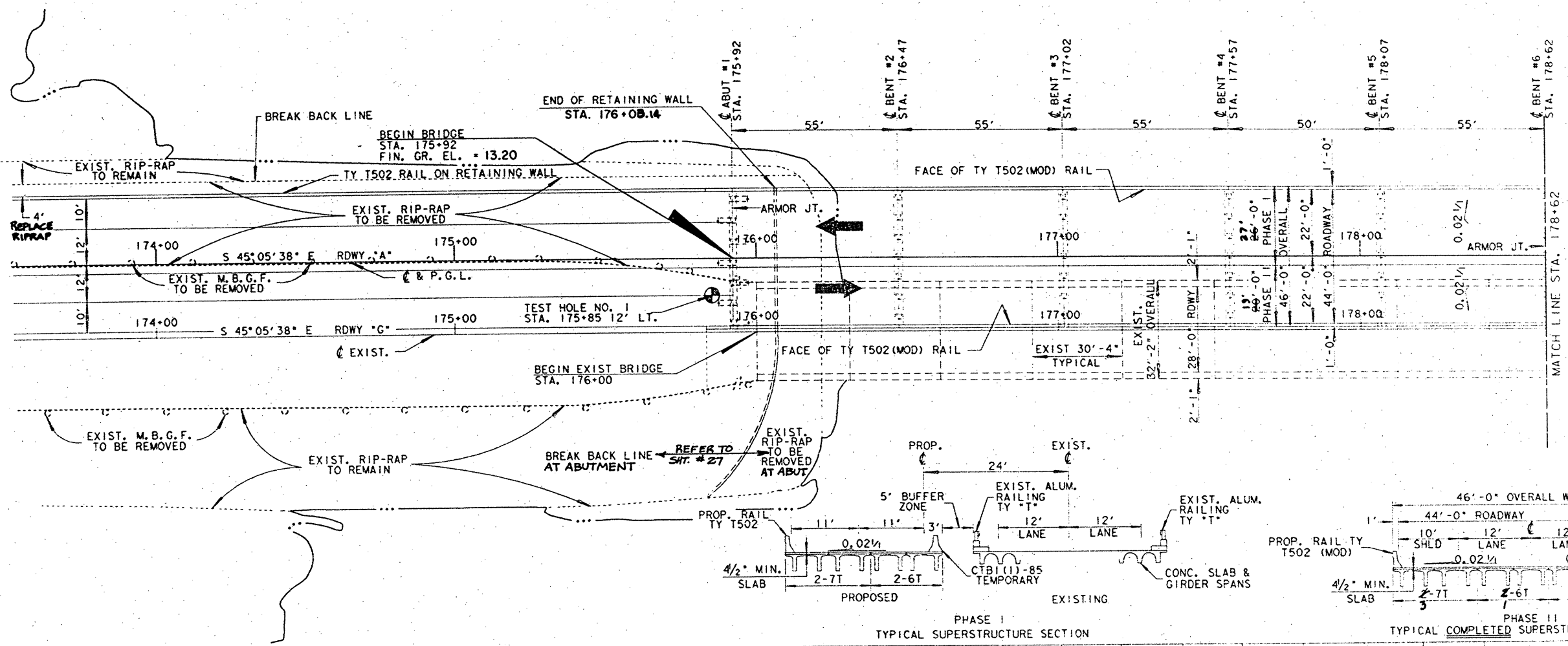
APPROVED FOR LETTING: 5-13-93
William A. Mathew
DIRECTOR OF HIGHWAY DESIGN

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED: [Signature]
DIVISION ADMINISTRATOR
DATE

3
8272
FINAL
102
3
M. GARZA
NUECES
11-8-95
2263-2-56

NUECES
HWY. NO. S.H. 361
DATE ACCEPTED


BR 92(37)



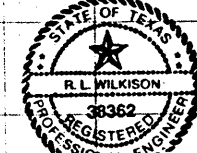
Note: Core data within bridge limits (beg.-end) was obtained in 1956 for Project S2298(1) Control 2263-02-003

9 (6.0')	11 (6.0')	SAND, BL, SLTY, CLYCY MUCK, TR SHLS
12 (6.0')	15 (6.0')	SAND, F, GRSH, GR, SLTY, STIFF, NATURAL GROUND (BAY BOTTOM)
38 (6.0')	58 (6.0')	SAND, F, GR, LAM W/ TN SLTY SD
10 (6.0')	14 (6.0')	SAND, F, LT, TN, WB
37 (6.0')	24 (6.0')	SAND, DK, GR, SLTY, SHLS
23 (6.0')	34 (6.0')	SAND, F, LT, GR, LAM W/DK GR, SLTY SD
20 (6.0')	21 (6.0')	
27 (6.0')	38 (6.0')	
50 (2.5')	50 (2.0')	
50 (1.5')	50 (1.0')	
7 (6.0')	8 (6.0')	CLAY, SILTY, BLUE, W/SHELL PART
7 (6.0')	7 (6.0')	CLAY, STIFF, BL, CALC NOD
9 (6.0')	9 (6.0')	

Exempt Structural Design



Marcos A. Hernandez
3/9/92




R.L. Wilkinson
11-27-92

Permit No. # 21
BRIDGE LAYOUT
RED FISH BAY
STA. 175+92 TO
STA. 196+12
SCALE 1" = 20' HORIZ.
1" = 20' VERT.
SHEET 1 OF 5 SHEETS

FED. PROJ. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	CRP 89(216) BRM	38
STATE	STATE DIST. NO.	COUNTY
TEXAS		NUECES
CONTRACT NO.	SECTION NO.	JOB NO.
2263	02	056
		HIGHWAY NO.
		SH 361

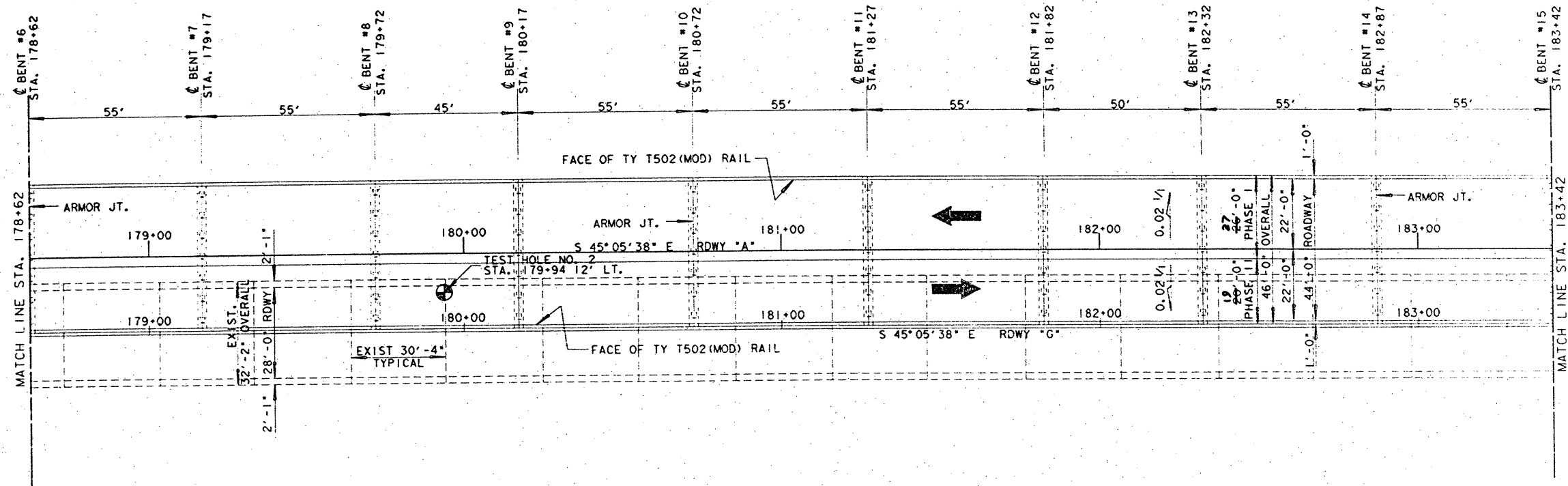
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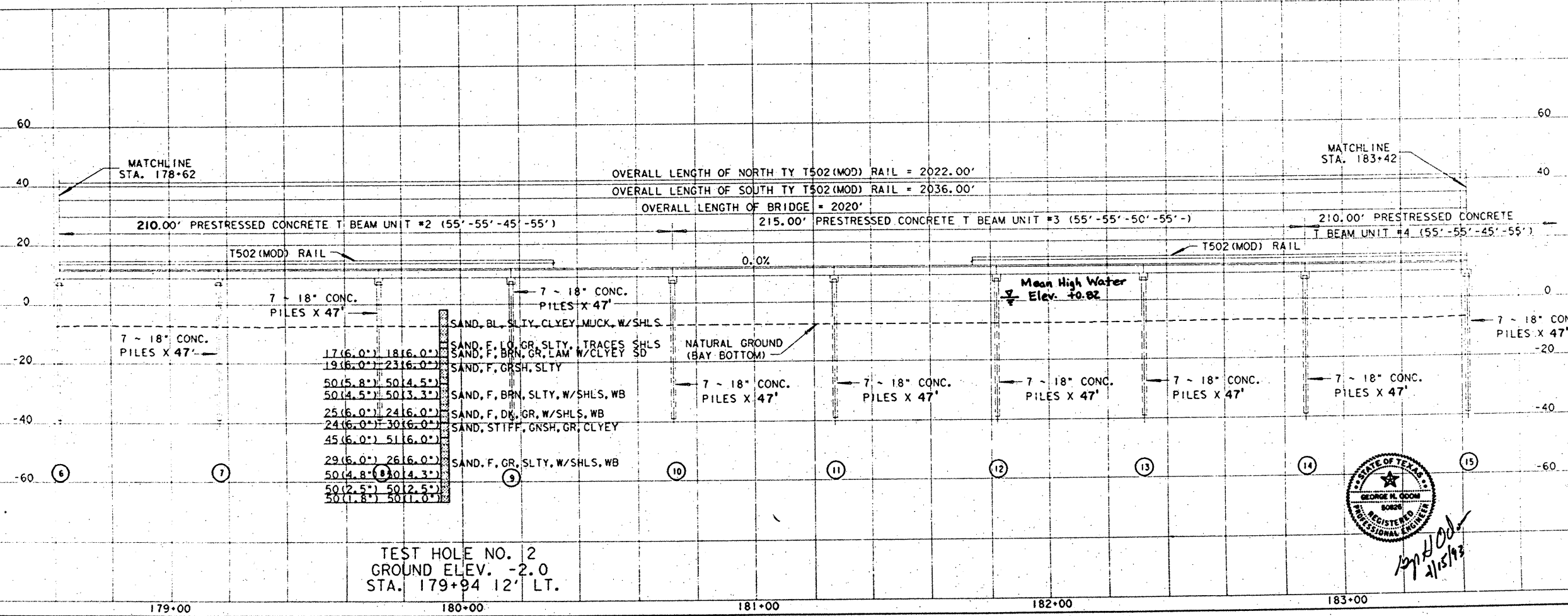
Bruce R. Gordon
3/10/93

SH361 RF B. DGN

ZFA1: [355157]4364LAY01. DGN



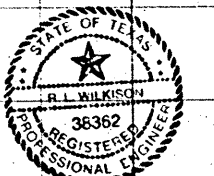
39



Exempt Structural Design



Marco A. Hernandez
3/9/92



R.L. Wilkison
11-27-90

**BRIDGE LAYOUT
RED FISH BAY**

STA. 175+92 TO
STA. 196+12

SCALE 1" = 20' HORIZ.
1" = 20' VERT.

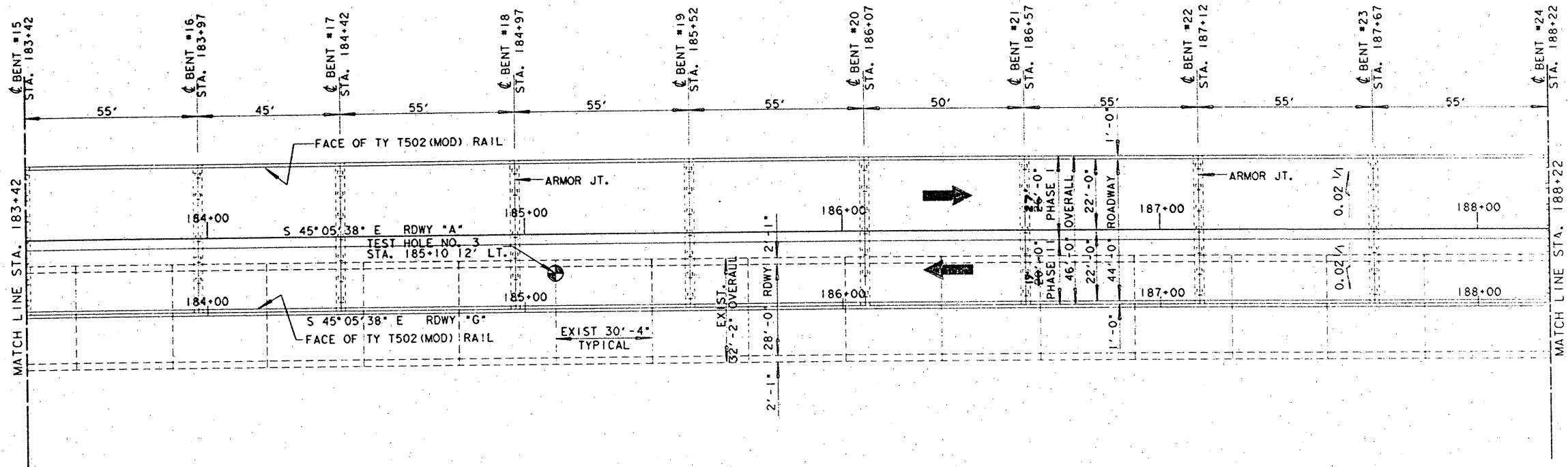
SHEET 2 OF 5 SHEETS

FED. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	CRP 89(216) BRM	39
STATE	STATE DIST. NO.	COUNTY
TEXAS		NUECES
CONT.	SECT.	JOB
2263	02	056 SH 361

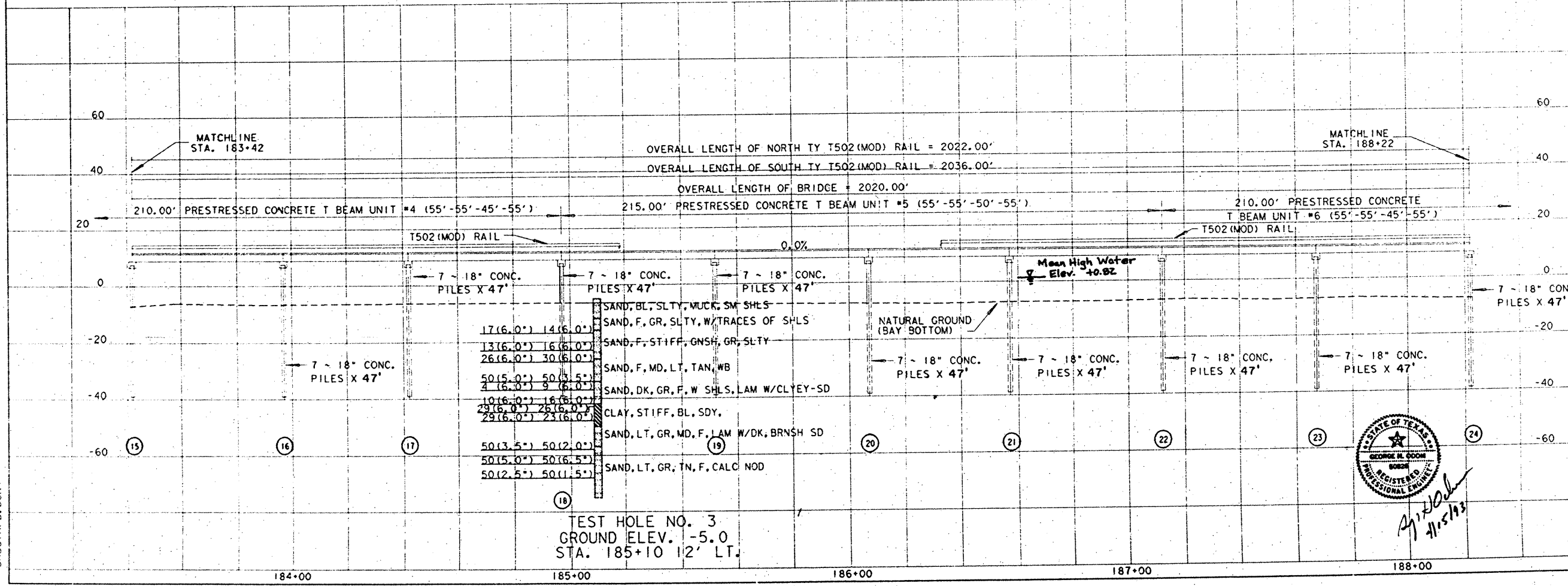


George H. Odom

SH361RF.B.DGN



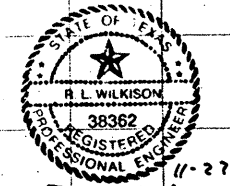
40



Exempt Structural Design



Marcia A. Hernandez
3/7/92



R.L. Wilkison
11-27-90

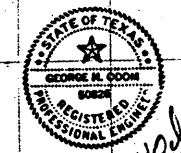
**BRIDGE LAYOUT
RED FISH BAY**

STA. 175+92 TO
STA. 196+12

SCALE 1" = 20' HORIZ.
1" = 20' VERT.

SHEET 3 OF 5 SHEETS

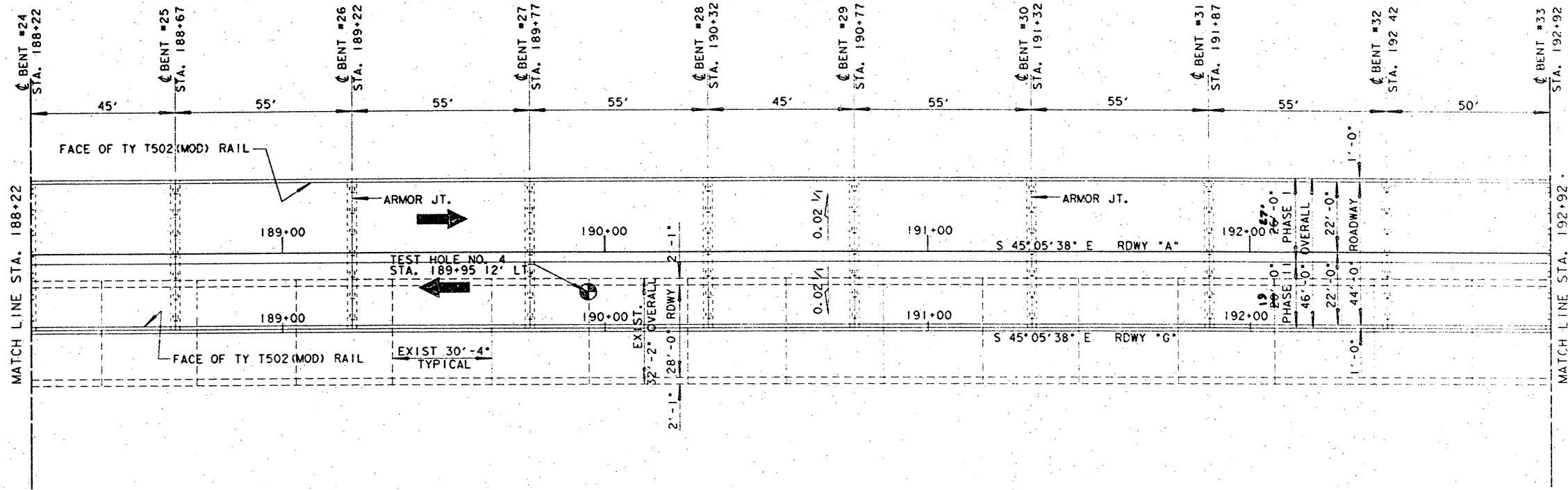
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6	CRP 89(216) BRM	40
STATE	STATE DIST. NO.	COUNTY
TEXAS		NUECES
CONT.	SECT.	JOB
2263	02	056
HIGHWAY NO.		SH 361



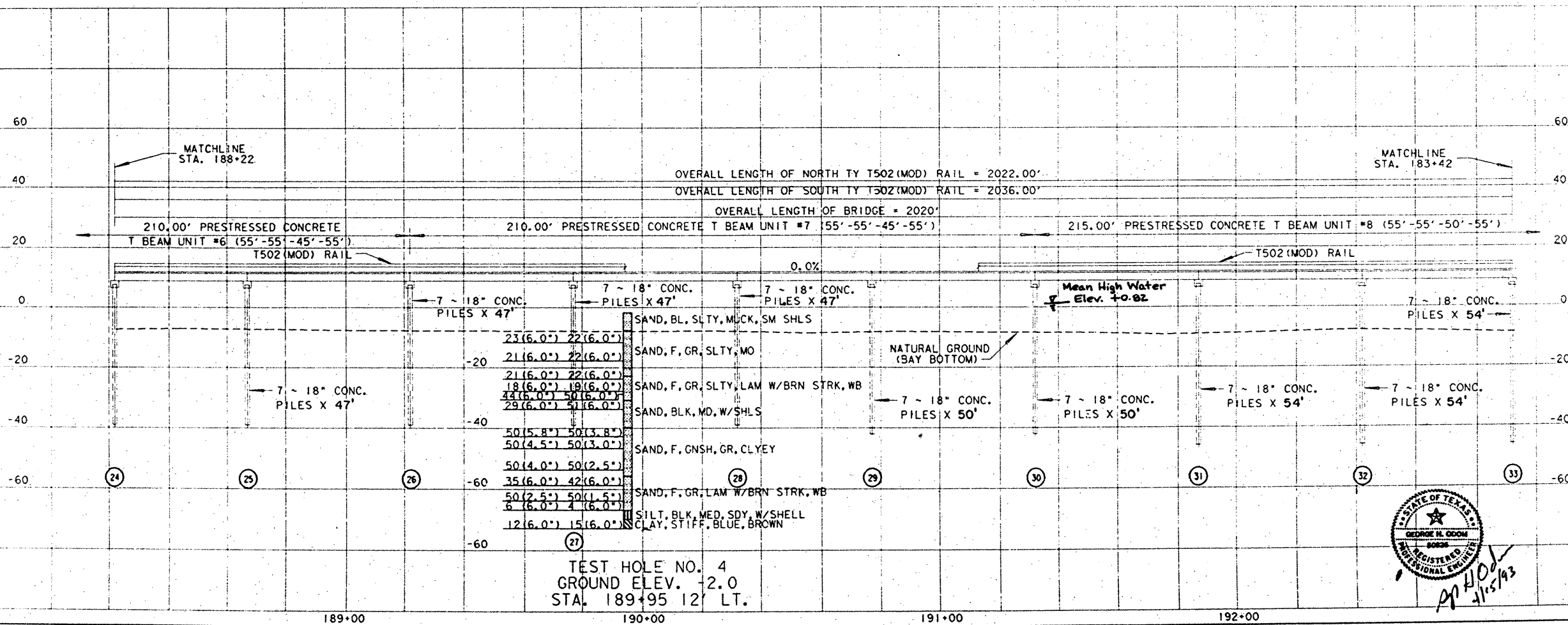
George H. Coon
11/5/93

SH261RF B. DGN

ZFA1135515714364LAYOUT.DGN



41



Exempt Structural Design



Marco A. Hernandez
3/9/92



R.L. Wilkison
11-27-90

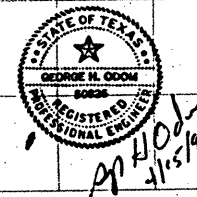
BRIDGE LAYOUT
RED FISH BAY

STA. 175+92 TO
STA. 196+12

SCALE 1" = 20' HORIZ.
1" = 20' VERT.

SHEET 4 OF 5 SHEETS

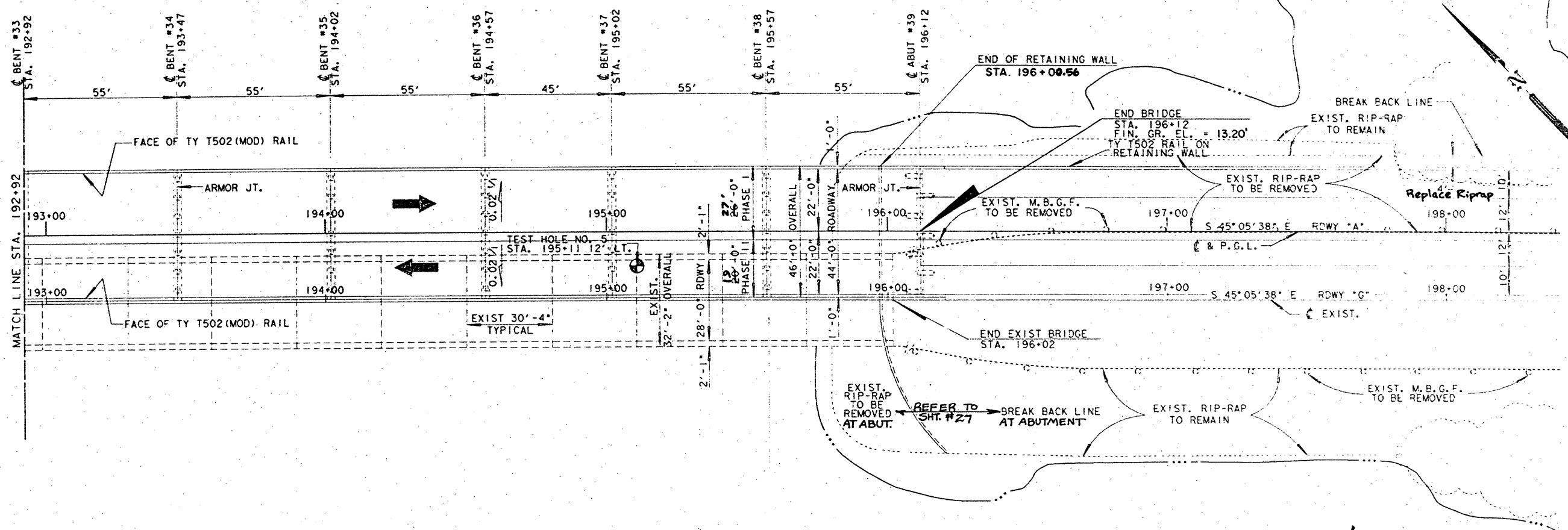
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6	CRP 89(216) BRM	41
STATE	STATE	COUNTY
TEXAS	NUECES	
CONT.	SECT.	JOB
2263	02	056
		SH 361



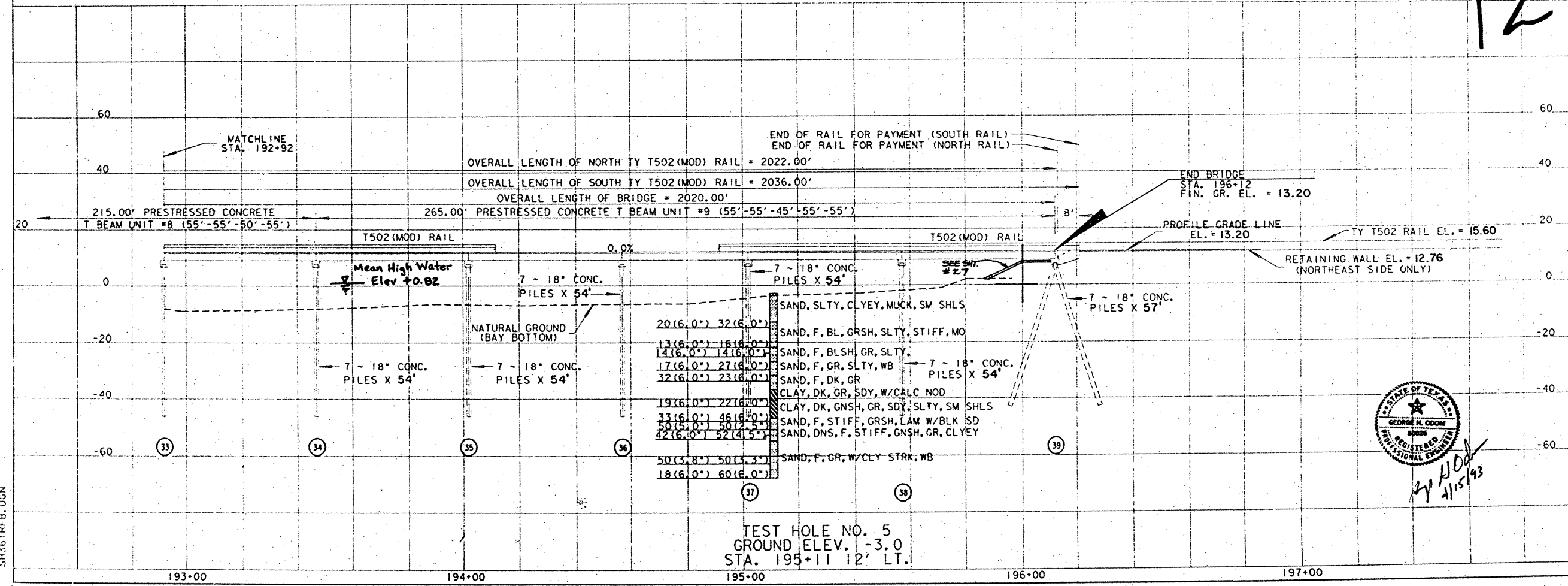
George H. Odom
11/5/93

SH361RF.B.DGN

ZFAI\35515714364LAY01.DGN



42



Exempt Structural Design

STATE OF TEXAS
 MARCO A. HERNANDEZ
 71581
 REGISTERED PROFESSIONAL ENGINEER

Mano A. Hernandez
 3/7/92

STATE OF TEXAS
 R. E. WILKINSON
 38362
 REGISTERED PROFESSIONAL ENGINEER

R. L. Wilkins
 11-27-90

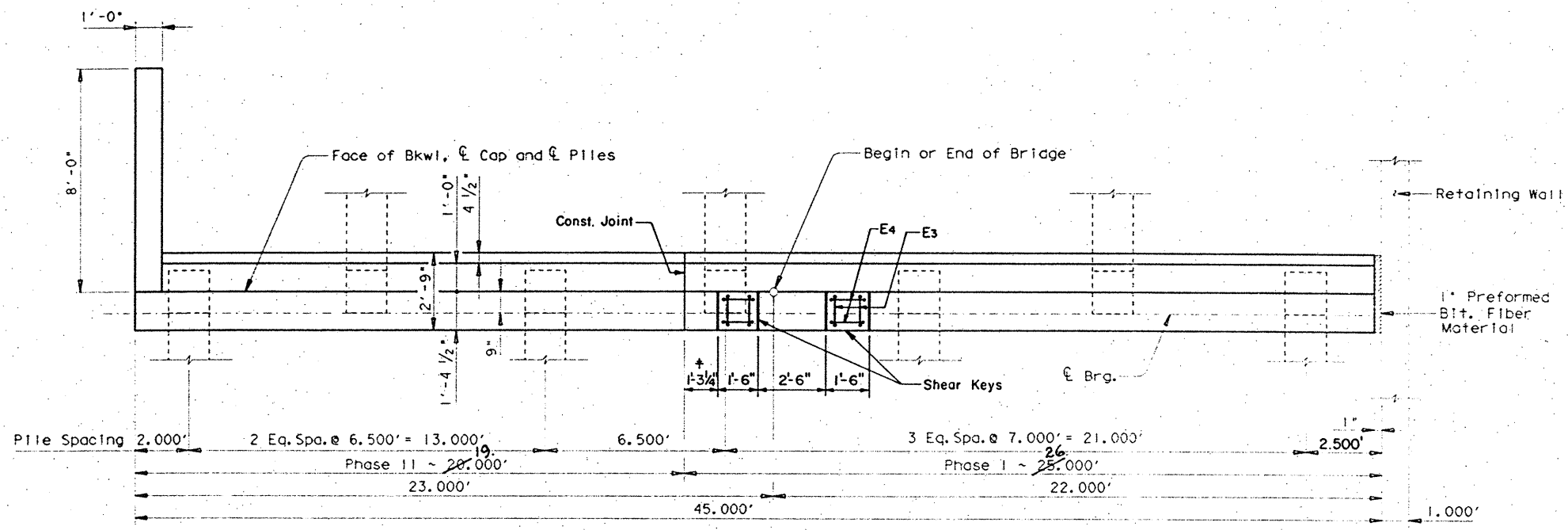
BRIDGE LAYOUT
 RED FISH BAY
 STA. 175+92 TO
 STA. 196+12

SCALE 1" = 20' HORIZ.
 1" = 20' VERT.

SHEET 5 OF 5 SHEETS

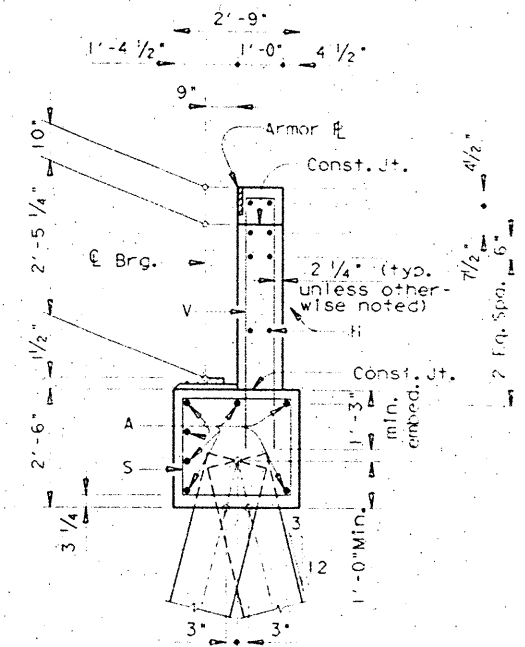
REG. NO.	FEDERAL A/C PROJECT NO.	SHEET NO.
6	CRP 89(216) BRM	42
STATE	COUNTY	
TEXAS	NUECES	
CONT.	SECT.	JOB
2263	02	056
ZFA1: C355157J4364LAY01.DGN		SH 361

SH361RFB.DGN



PLAN
(SHOWING ABUTMENT NO. 1)

† Note: If optional double T-Beams, T-D-B (Mod) are used, this dimension shall be 1'-3 7/8\".



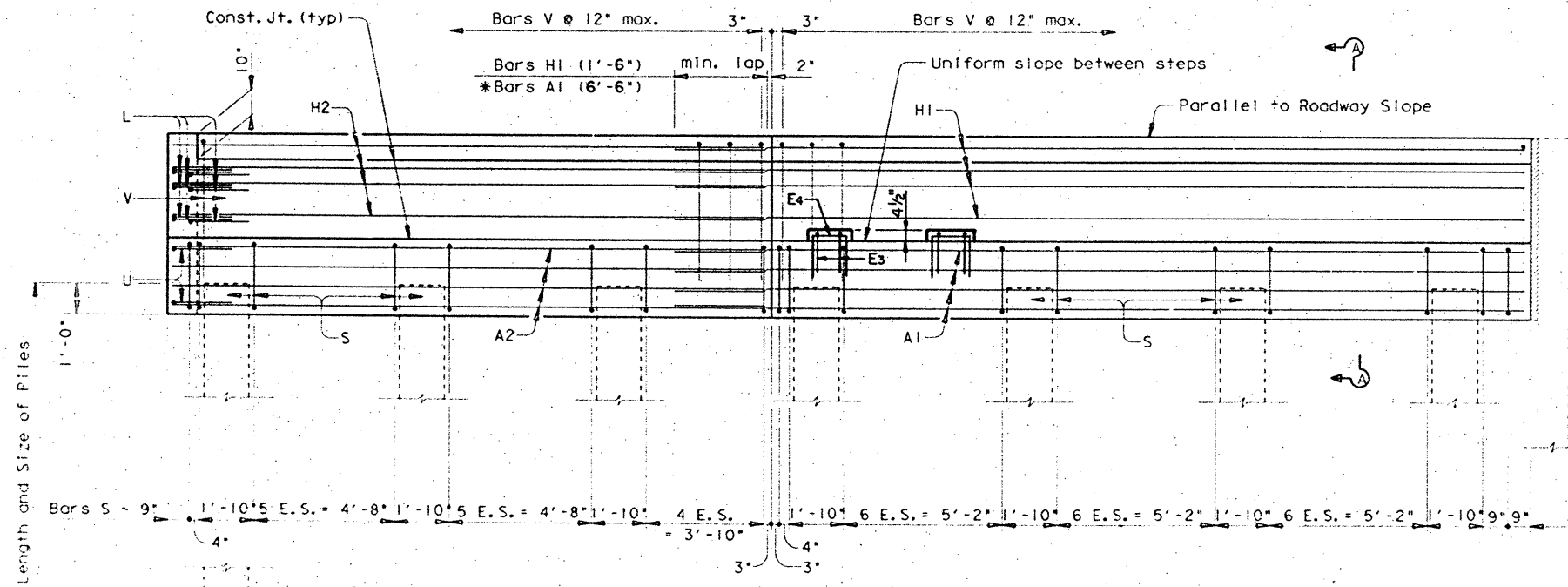
SECTION A-A

Note: See Special Specification For Inorganic Corrosion Inhibitor Admix.

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GENERAL NOTES:

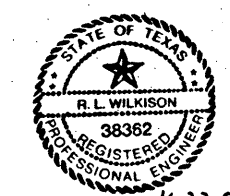
Designed according to A. A. S. H. T. O. 1989 Standard Specifications.
Calculated Pile Load = 60 Tons/pile



ELEVATION

* Note: Bars A1 and A2 may be butt-welded in accordance with Item 448 or Cadweld (T-Series) as approved by the Engineer. If welded, Bars A1 lengths shall be adjusted to extend 1'-6\"/>

See Layout for Length and Size of Piles



R. L. Wilkison

HS 20 LOADING (SHEET 1 OF 2)

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION		ABUTMENT NOS. 1 OR 39	
RED FISH BAY BRIDGE			
D:\45350A\2FA2\1355156143644810.DGN		PREPARED BY AND FOR USE OF TEXAS SDHP/PT	
DATE: AUGUST 1990	REVISIONS:	SCALE: 1/8\"/>	
DR: RAC	CHK: TEB	APP: JTM	DES: TEB
COUNTY: NUECES		PROJECT NO.: 1263	SHEET NO.: 02 OF 056

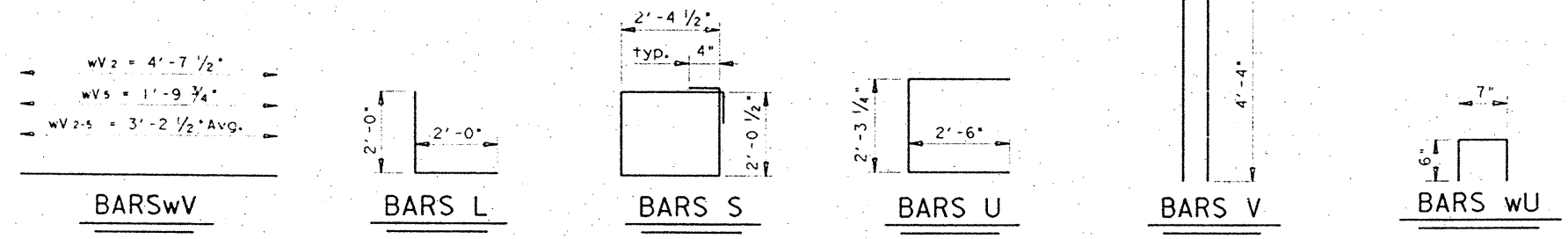
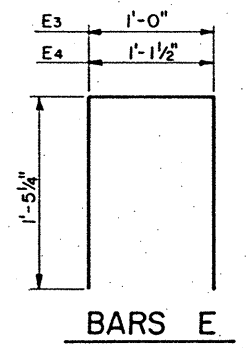
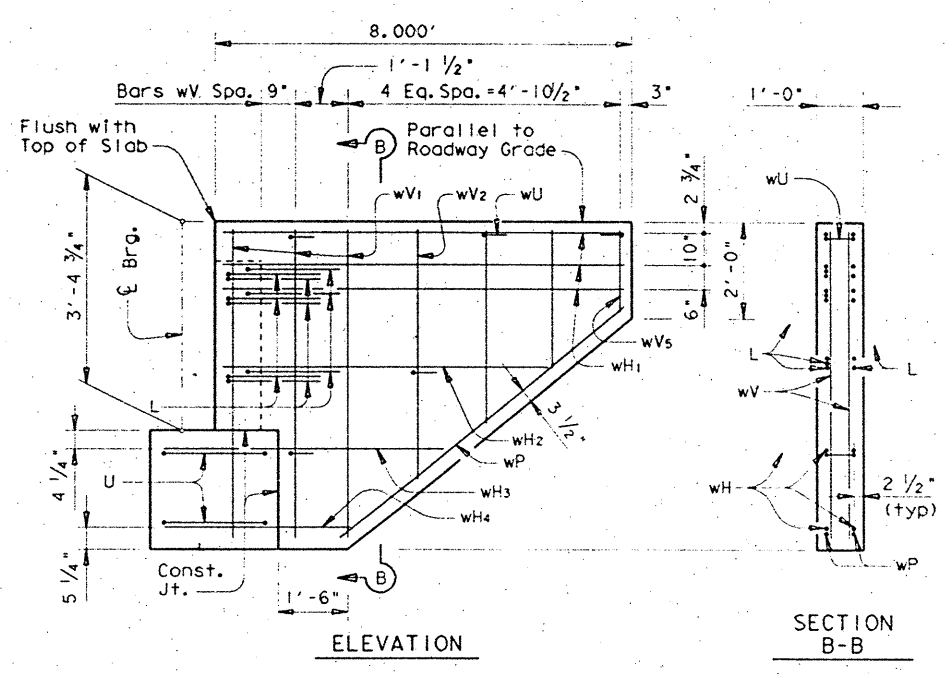
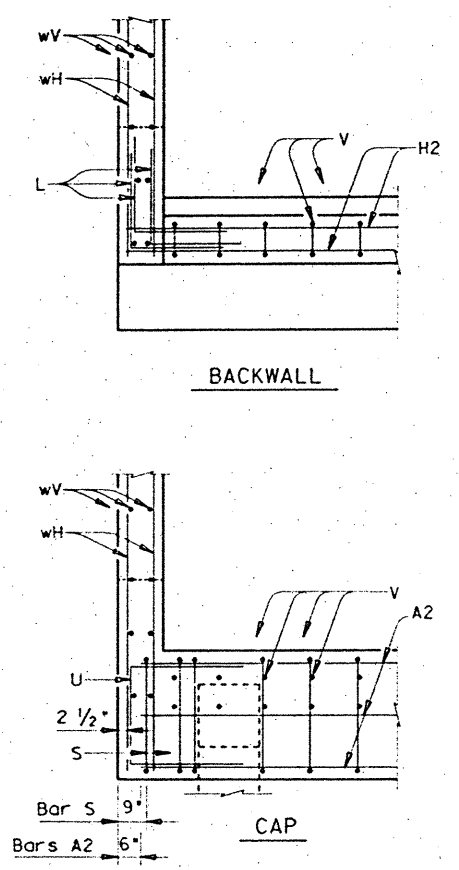
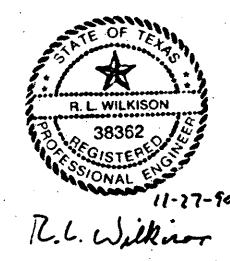


TABLE OF ESTIMATED QUANTITIES									
PHASE I					PHASE II				
Bar No.	Size	Length	Weight		Bar No.	Size	Length	Weight	
A1	# 9	31'-5"	748		A2	# 9	19'-4"	460	
H1	# 5	26'-5"	220		H2	# 5	19'-8"	164	
S	# 4	9'-6"	159		L	# 6	4'-0"	54	
V	# 5	9'-4"	253		S	# 4	9'-6"	121	
E3	# 5	3'-11"	16		U	# 6	7'-3"	22	
E4	# 5	4'-0"	17		V	# 5	9'-4"	195	
					wH1	# 6	7'-8"	69	
					wH2	# 6	6'-5"	19	
					wH3	# 6	6'-4"	19	
					wH4	# 6	4'-1"	12	
					wV1	# 5	5'-7"	35	
					wV2-5	# 5	3'-2" Avg	26	
					wU	# 4	1'-7"	5	
					wP	# 6	6'-5"	19	
Reinforcing Steel		Lb	#	1413	Reinforcing Steel		Lb	#	1220
Class "C" Concrete		CY		9.4	Class "C" Concrete		CY		8.7
Struct. Stl. (Arm. Jt.)		Lb		320	Struct. Stl. (Arm. Jt.)		Lb		220

† For contractor's information only.
 ‡ Quantities shown are for one Abutment only.
 † Quantity shown is for 1/2 of one complete Arm. Jt.
 Epoxy coat all reinforcing.

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HS 20 LOADING (SHEET 2 OF 2)

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

ABUTMENT NOS. 1 OR 39

RED FISH BAY BRIDGE

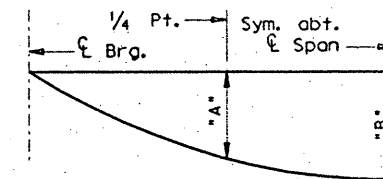
DATE: AUGUST 1990	PROJECT: CRP 89 (216) BRM	SHEET: 46
DESIGNED BY: RAC	CHECKED BY: JEB	DATE: 10/6
DATE: JIM	DATE: TEB	
COUNTY: NUECES	SECTION: 2263	JOB: 02 056
DRAWN BY: SH361		

TABLE OF ESTIMATED QUANTITIES

PHASE I					PHASE II				
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight
A1	525	# 6	28'- 7"	22,537	A2	525	# 6	19'- 8"	15,511
B1	52	# 5	275'- 4" †	14,933	B2	40	# 5	275'- 4" †	11,487
F1	2100	# 4	2'- 6"	3507	F2	1050	# 4	2'- 6"	1754
G1	40	# 4	28'- 7"	764	G2	40	# 4	19'- 8"	526
S	270	# 4	4'- 2"	752	S	210	# 4	4'- 2"	585
Reinforcing Steel					Reinforcing Steel				
Lb #42,498					Lb #29,863				
Prestr. Conc. T Bm. 7T33.5 LF 536.67					Prestr. Conc. T Bm. 8T33.5 LF 268.33				
Prestr. Conc. T Bm. 6T33.5 LF 536.67					Prestr. Conc. T Bm. 6T33.5 LF 536.67				
Class "S" Conc. (Slab) CY 106.2					Class "S" Conc. (Slab) CY 81.7				
Struct. Steel (Arm. Jt.) LB 640					Struct. Steel (Arm. Jt.) LB 440				

For contractor's information only.
 ▲ Epoxy Coated.
 † Includes 4 - 1'-5" min. laps.
 ■ Quantity shown is for one complete Arm. Joint.
 Reinforcing Steel shall be Grade 60.

Span	Beam	"A"	"B"
55.00'	8T33.5	.013'	.018'
	7T33.5	.012'	.016'
	6T33.5	.010'	.015'
50.00'	8T33.5	.008'	.012'
	7T33.5	.008'	.011'
	6T33.5	.007'	.010'



NOTE: Deflections shown are due to cast-in-place concrete only.
 (E = 5 X 10⁶ psi)
DEAD LOAD DEFLECTION DIAGRAM

GENERAL NOTES:

Designed according to A.A.S.H.T.O. 1989 Standard and current Interim Specifications.

Design f'c = 1200 p.s.i.

See Prestressed Concrete T Beam (Miscellaneous Details) sheet for details not shown.

HS 20 LOADING

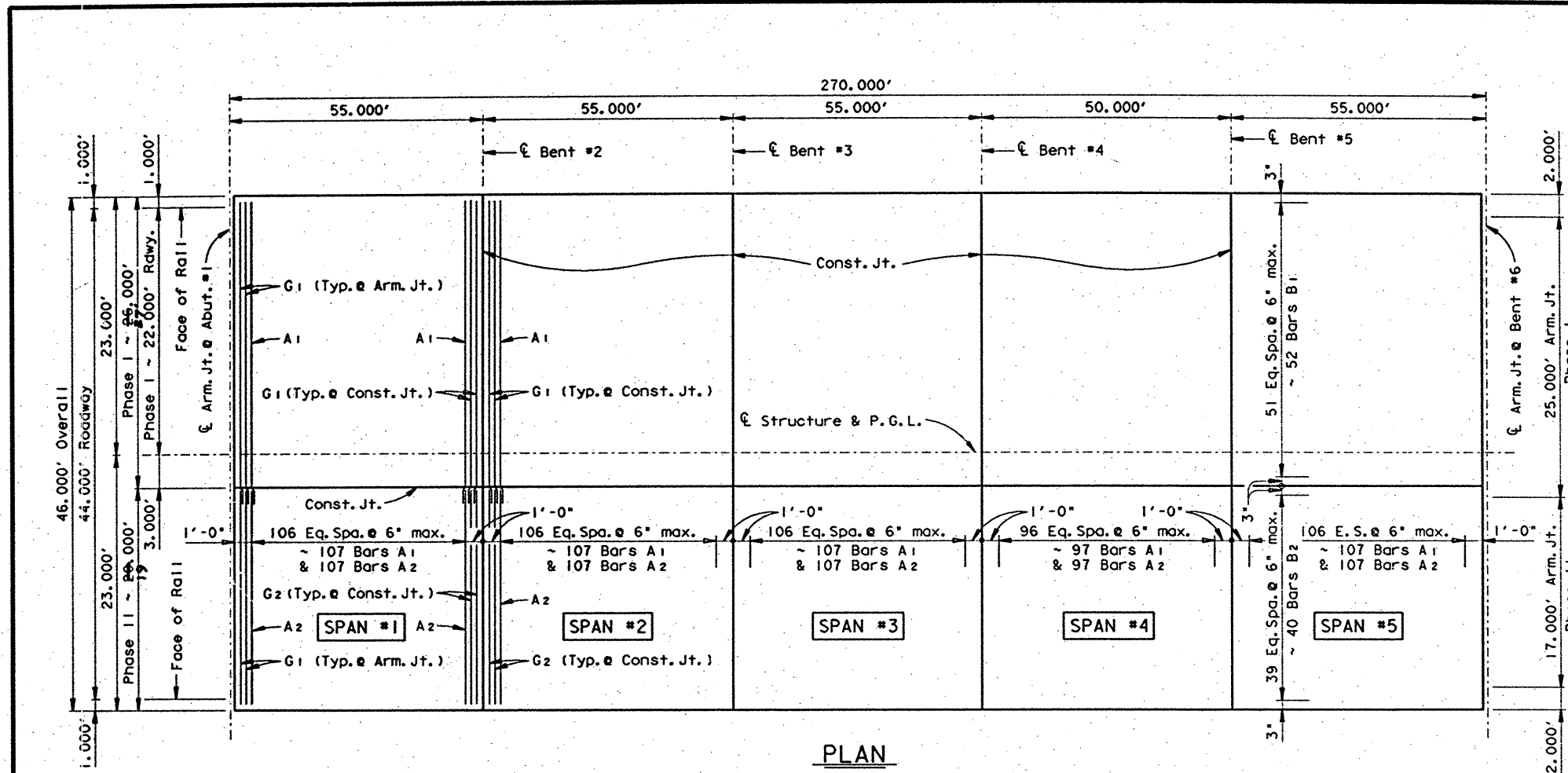


R.L. Wilkison
11-27-90

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION
270.00' PRESTRESSED CONCRETE T BEAM
 UNIT #1

RED FISH BAY BRIDGE

D451 ZFA2 I 35512314364 TSS01.DGN		PREPARED BY AND FOR USE OF TEXAS SH&PT	
DATE: SEPTEMBER, 1990	STATE: TEXAS	FEDERAL PROJECT: 16	SHEET: 48
DESIGNED BY: RAC	REVISIONS:	COUNTY: NUECES	CONTRACT NO.: CRP 09 (216) BEM
CHECKED BY: TEB			
APPROVED BY: KKD			

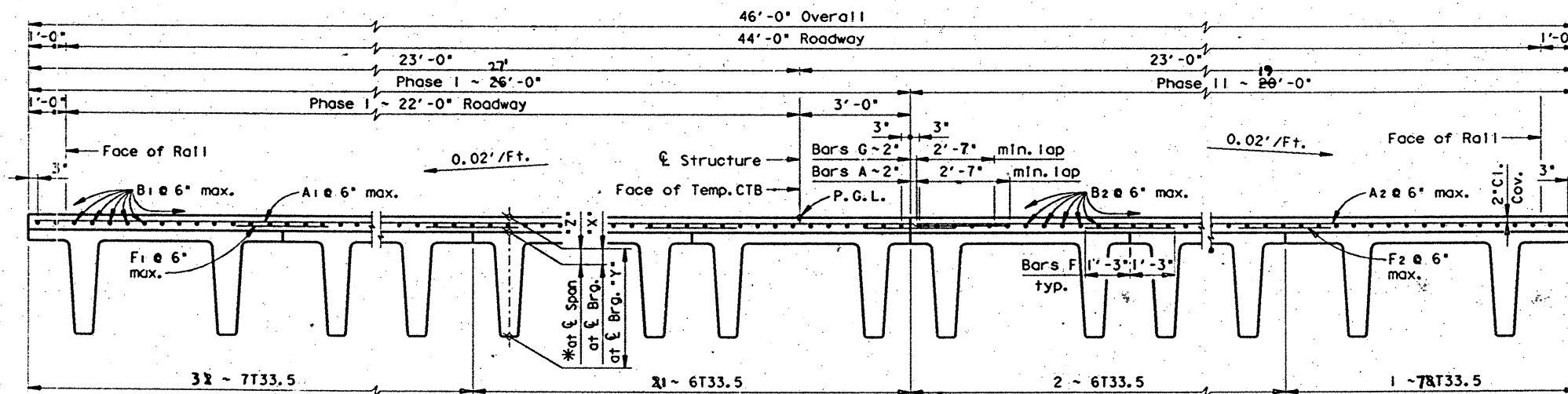


PLAN

TABLE OF SECTION DEPTHS

Span	*X* at Brg.	*Y* at Brg.	*Z* at Span*
#1-3	5 3/4"	3'-3/4"	4 1/2"
#4	5 1/2"	3'-3"	4 1/2"
#5	5 3/4"	3'-3/4"	4 1/2"

* Theoretical dimension
 # For beam at P.G.L. these depths are measured at flange tips only.



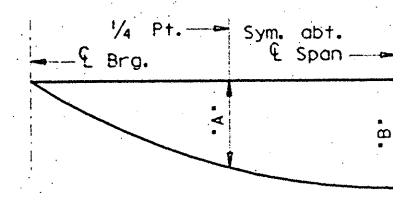
TYPICAL TRANSITION SECTION

TABLE OF ESTIMATED QUANTITIES

PHASE I					PHASE II				
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight
A1	408	# 6	28'-7"	17,514	A2	408	# 6	19'-8"	12,054
B1	52	# 5	213'-11" #	11,602	B2	40	# 5	213'-11" #	8925
F1	1632	# 4	2'-6"	2725	F2	816	# 4	2'-6"	1363
G1	32	# 4	28'-7"	611	G2	32	# 4	19'-8"	420
S	216	# 4	4'-2"	602	S	168	# 4	4'-2"	468
Reinforcing Steel					Reinforcing Steel				
Prestr. Conc. T Bm. 7T33.5					Prestr. Conc. T Bm. 8T33.5				
Prestr. Conc. T Bm. 6T33.5					Prestr. Conc. T Bm. 6T33.5				
Class "S" Conc. (Slab)					Class "S" Conc. (Slab)				
Struct. Steel (Arm. Jt.)					Struct. Steel (Arm. Jt.)				
Lb #33,054					Lb #23,230				
LF 417.33					LF 208.67				
LF 417.33					LF 417.33				
CY 82.3					CY 63.2				
Lb # 640					Lb # 440				

For contractor's information only.
 ▲ Epoxy Coated.
 # Includes 3 ~ 1'-5" min. laps.
 ☑ Quantity shown is for one complete Arm. Joint.
 Reinforcing Steel shall be Grade 60.

Span	Beam	"A"	"B"
55.00'	8T33.5	.013'	.018'
	7T33.5	.012'	.016'
	6T33.5	.010'	.015'
45.00'	8T33.5	.005'	.008'
	7T33.5	.005'	.007'
	6T33.5	.004'	.006'



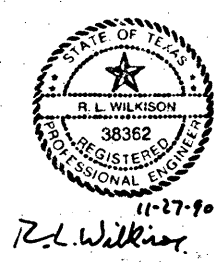
NOTE: Deflections shown are due to cast-in-place concrete only.
 (E = 5 x 10⁶ psi)

DEAD LOAD DEFLECTION DIAGRAM

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GENERAL NOTES:

Designed according to A.A.S.H.T.O. 1989 Standard and current Interim Specifications.
 Design f'c = 1200 p.s.i.
 See Prestressed Concrete T Beam (Miscellaneous Details) sheet for details not shown.



HS 20 LOADING

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

210.00' PRESTRESSED CONCRETE T BEAM

UNIT #2, 4, 6 & 7

RED FISH BAY BRIDGE

D45 + ZFA2 + [355123]4364TSS02.DGN	PREPARED BY AND FOR USE OF TEXAS SDH&PT
ORIGINAL DRAWING DATE: SEPTEMBER, 1990	DATE: SEPTEMBER, 1990
DESIGNER: RAC	PROJECT: CRP 89 (216) BRM
CHECKER: KEB	COUNTY: NUECES
APPROVER: KED	CONTROL SECTION: 02
DATE: 11-27-90	SHEET: 49
	DATE: 11-27-90
	DATE: 11-27-90

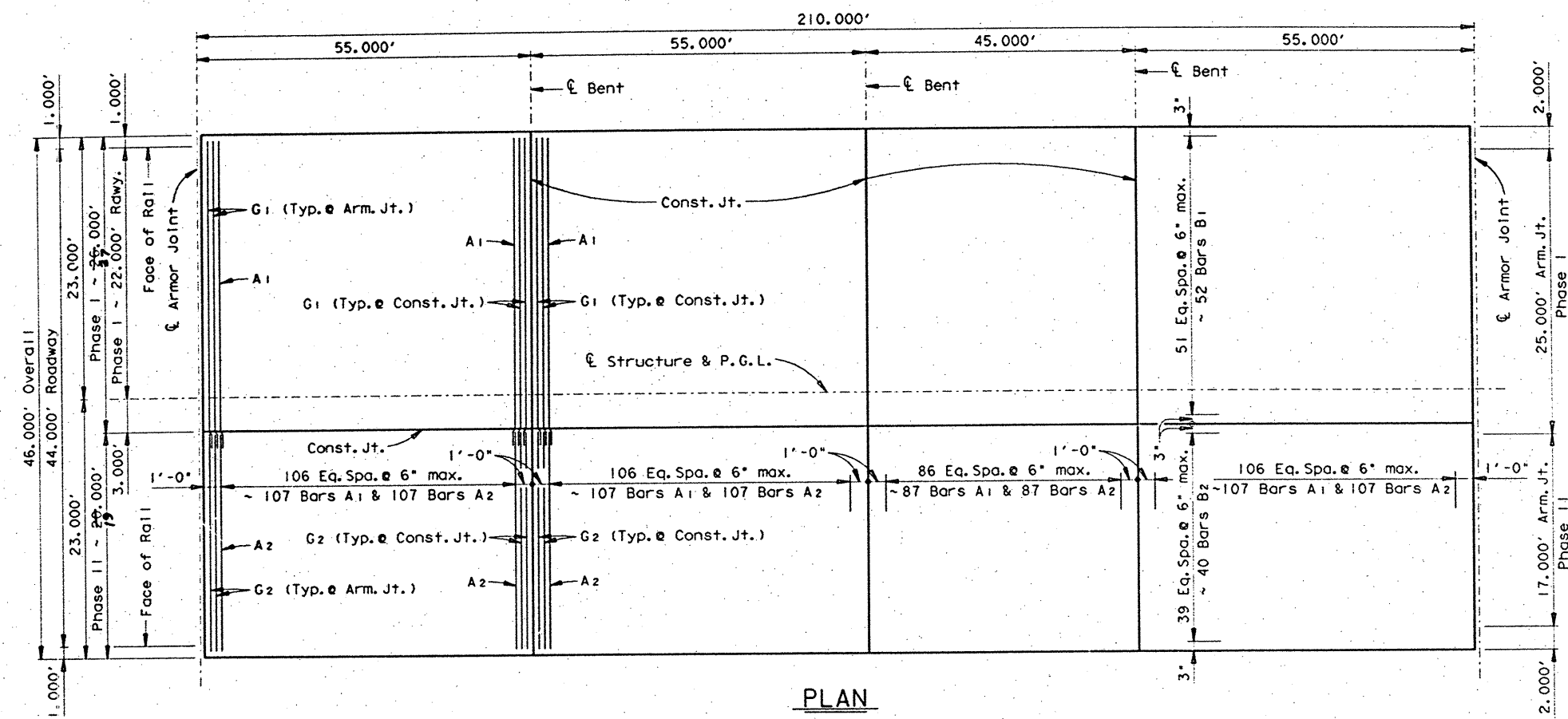
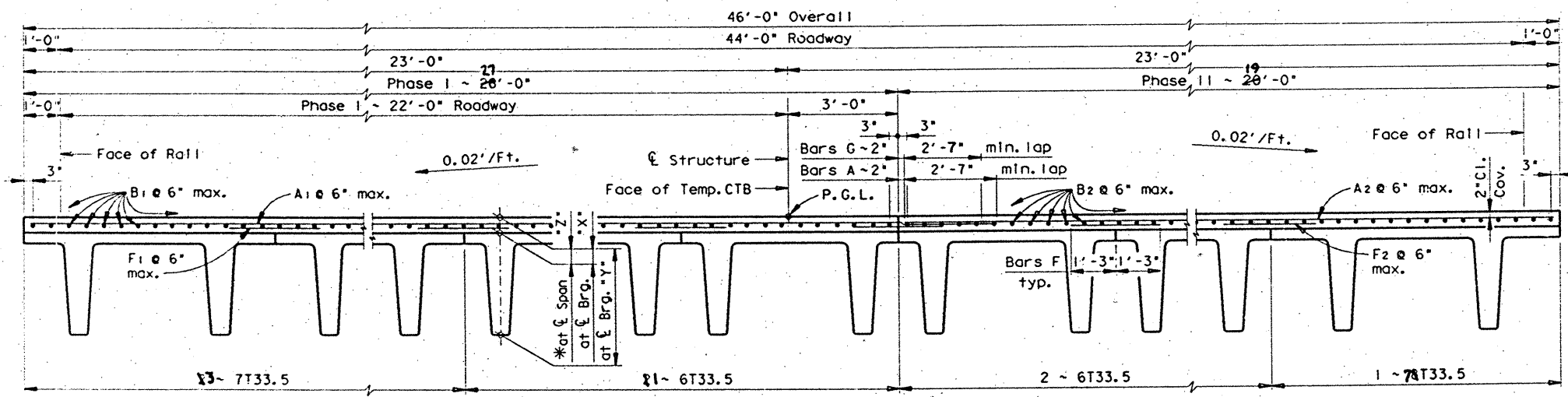


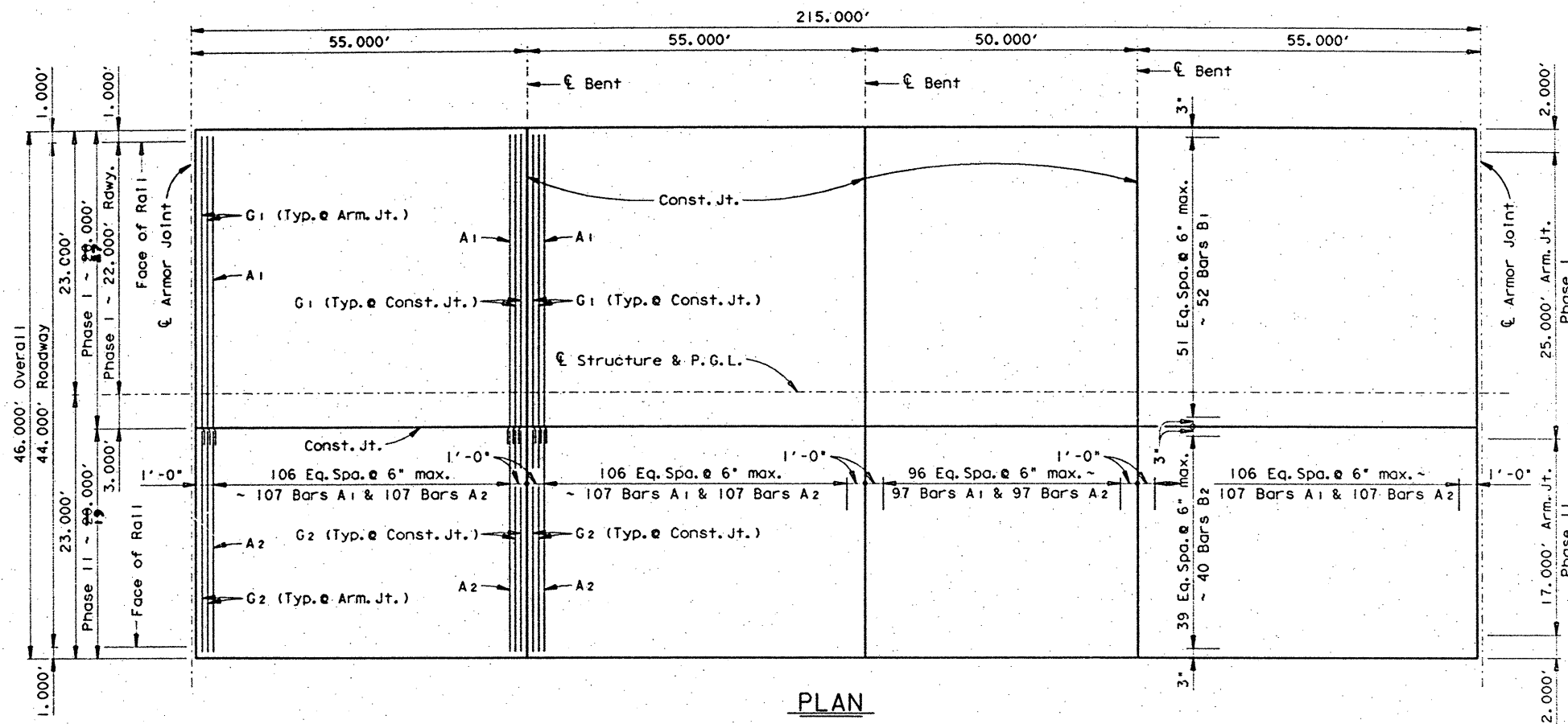
TABLE OF SECTION DEPTHS

Span	*X* at C Brg.	*Y* at C Brg.	*Z* at C Span*
55.00'	5 3/4"	3'-3/4"	4 1/2"
45.00'	5 1/4"	3'-2 3/4"	4 1/2"

* Theoretical dimension.
 # For beam at P.G.L. these depths are measured at flange tips only.



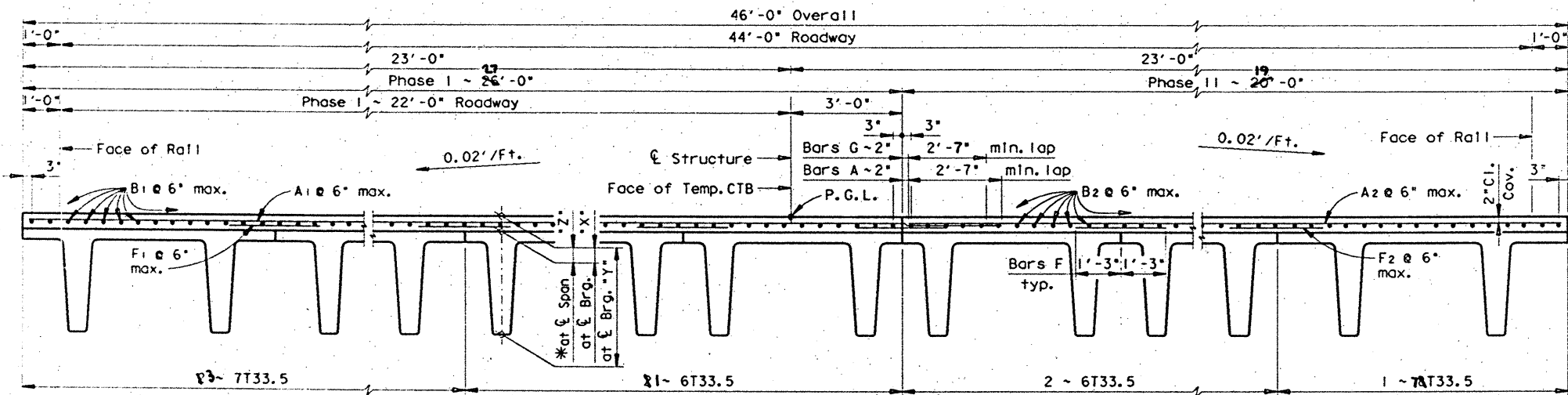
TYPICAL TRANSITION SECTION



PLAN

# TABLE OF SECTION DEPTHS			
Span	*X* at \bar{C} Brg.	*Y* at \bar{C} Brg.	*Z* at \bar{C} Span *
55.00'	5 3/4"	3'-3 3/4"	4 1/2"
50.00'	5 1/2"	3'-3"	4 1/2"

* Theoretical dimension
 # For beam at P.G.L. these depths are measured at flange tips only.



TYPICAL TRANSITION SECTION

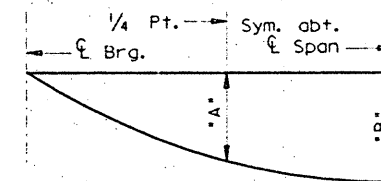
50

TABLE OF ESTIMATED QUANTITIES

PHASE I					PHASE II				
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight
A1	418	# 6	28'-7"	17,943	A2	418	# 6	19'-8"	12,350
B1	52	# 5	218'-11"	11,873	B2	40	# 5	218'-11"	9,133
F1	1672	# 4	2'-6"	2,792	F2	836	# 4	2'-6"	1,396
G1	32	# 4	28'-7"	611	G2	32	# 4	19'-8"	420
S	216	# 4	4'-2"	602	S	168	# 4	4'-2"	468
Reinforcing Steel					Reinforcing Steel				
Lb #33,821					Lb #23,767				
Prestr. Conc. T Bm. 7T33.5					Prestr. Conc. T Bm. 8T33.5				
LF 427.33					LF 213.67				
Prestr. Conc. T Bm. 6T33.5					Prestr. Conc. T Bm. 6T33.5				
LF 427.33					LF 427.33				
Class "S" Conc. (Slab)					Class "S" Conc. (Slab)				
CY 84.5					CY 65.0				
Struct. Steel (Arm. Jt.)					Struct. Steel (Arm. Jt.)				
Lb # 640					Lb # 440				

For contractor's information only.
 ▲ Epoxy Coated.
 † Includes 3 - 1'-5" min. laps.
 ■ Quantity shown is for one complete Armor Joint.
 Reinforcing Steel shall be Grade 60.

Span	Beam	*A*	*B*
55.00'	8T33.5	.013'	.018'
	7T33.5	.012'	.016'
	6T33.5	.010'	.015'
50.00'	8T33.5	.008'	.012'
	7T33.5	.008'	.011'
	6T33.5	.007'	.010'



NOTE: Deflections shown are due to cast-in-place concrete only.

(E = 5 X 10⁶ psi)

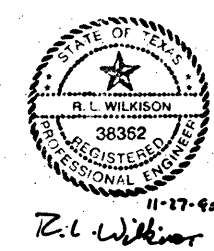
DEAD LOAD DEFLECTION DIAGRAM

GENERAL NOTES:

Designed according to A. A. S. H. T. O. 1989 Standard and current Interim Specifications.

Design f'c = 1200 p.s.i.

See Prestressed Concrete T Beam (Miscellaneous Details) sheet for details not shown.



R.L. Wilkison

HS 20 LOADING

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

215.00' PRESTRESSED CONCRETE T BEAM

UNIT #3, 5 & 8

RED FISH BAY BRIDGE

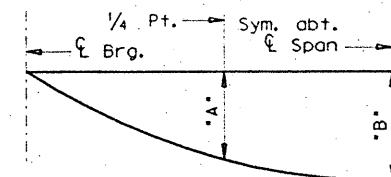
D451 ZFA2 (355) 2314364 TSS03.DGN	PREPARED BY AND FOR USE OF TEXAS SDHMT
DATE: SEPTEMBER, 1990	STATE: FEDERAL AID PROJECT: SHEET
REVISIONS	16 6 CRP 03 (216) BSM 50
DR: RAC	COUNTY: NUECES
CR: TEB	CONTROL SECTION: 02
KKD	JOB: 056
TEB	PROJECT: SH361

TABLE OF ESTIMATED QUANTITIES

PHASE I					PHASE II				
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight
A1	515	# 6	28'- 7"	22,107	A2	515	# 6	19'- 8"	15,215
B1	52	# 5	270'- 4" †	14,661	B2	40	# 5	270'- 4" †	11,278
F1	2060	# 4	2'- 6"	3440	F2	1030	# 4	2'- 6"	1720
G1	40	# 4	28'- 7"	764	G2	40	# 4	19'- 8"	526
S	260	# 4	4'- 2"	724	S	200	# 4	4'- 2"	557
Reinforcing Steel					Reinforcing Steel				
Lb #41,696					Lb #29,296				
Prestr. Conc. T Bm. 7T33.5					Prestr. Conc. T Bm. 8T33.5				
LF 526.67					LF 263.33				
Prestr. Conc. T Bm. 6T33.5					Prestr. Conc. T Bm. 6T33.5				
LF 526.67					LF 526.67				
Class "S" Conc. (Slab)					Class "S" Conc. (Slab)				
CY 104.0					CY 79.9				
Struct. Steel (Arm. Jt.)					Struct. Steel (Arm. Jt.)				
Lb # 640					Lb # 440				

For contractor's information only.
 ▲ Epoxy Coated.
 † Includes 4 ~ 1'-5" min. laps.
 ■ Quantity shown is for one complete Arm. Joint.
 Reinforcing Steel shall be Grade 60.

Span	Beam	*A*	*B*
55.00'	8T33.5	.013'	.018'
	7T33.5	.012'	.016'
	6T33.5	.010'	.015'
45.00'	8T33.5	.005'	.008'
	7T33.5	.005'	.007'
	6T33.5	.004'	.006'



NOTE: Deflections shown are due to cast-in-place concrete only.

(E = 5 X 10⁶ psi)

DEAD LOAD DEFLECTION DIAGRAM

GENERAL NOTES:

Designed according to A.A.S.H.T.O. 1989 Standard and current Interim Specifications.

Design f'c = 1200 p.s.i.

See Prestressed Concrete T Beam (Miscellaneous Details) sheet for details not shown.

HS 20 LOADING

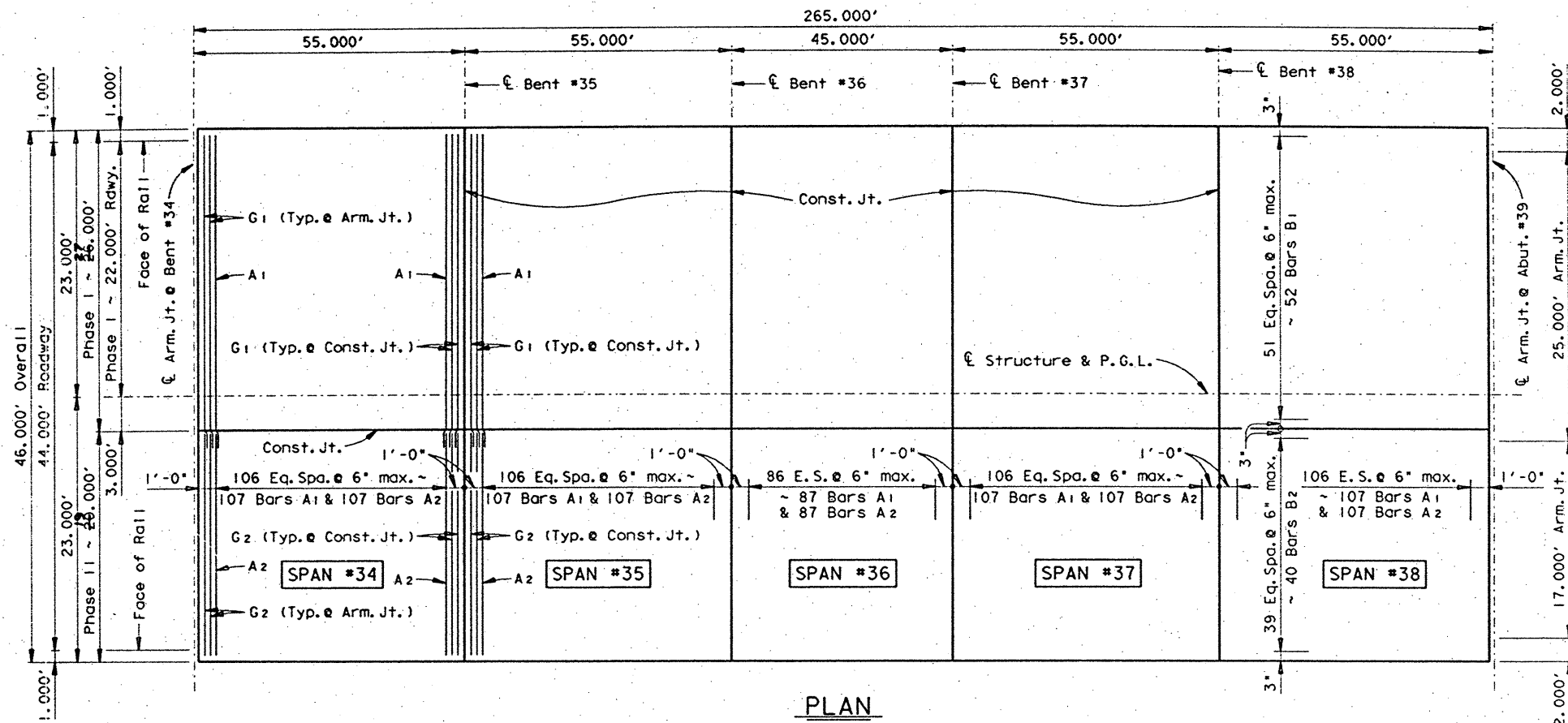


R.L. Wilkison

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION
 265.00' PRESTRESSED CONCRETE T BEAM
 UNIT #9

RED FISH BAY BRIDGE

D45+ZFA2+(355123)4364TSS04.DGN	PREPARED BY AND FOR USE OF TEXAS SDHPPT
DATE: SEPTEMBER, 1990	SHEET
DESIGNER: RAC	16
CHECKER: TEB	6
DATE: KKD	CRP 89 (216) BEM 51
DATE: TEB	COUNTY: NUECES
	SECTION: 2263
	JOB: 02
	W/FORM: 056
	SH361

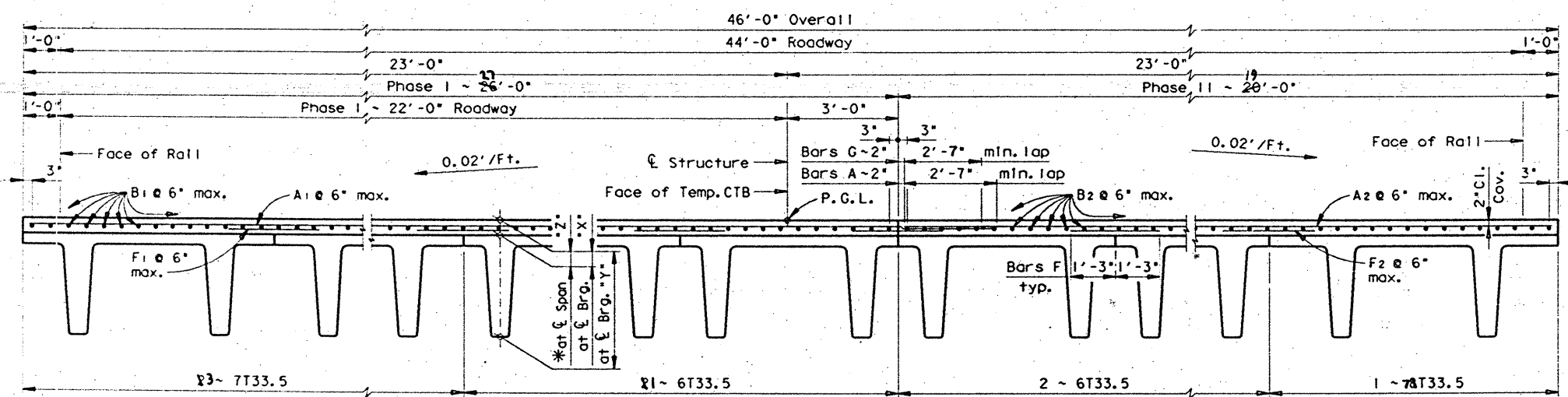


PLAN

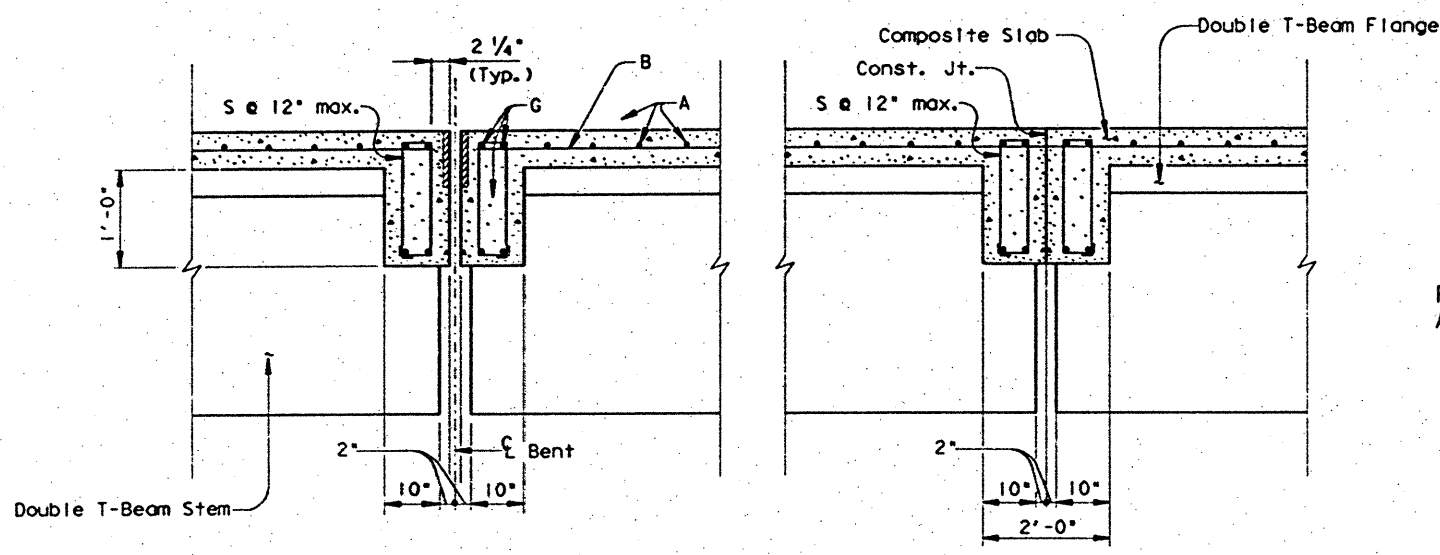
TABLE OF SECTION DEPTHS

Span	*X* at Brg.	*Y* at Brg.	*Z* at Span*
#34 & #35	5 3/4"	3'-3/4"	4 1/2"
#36	5 1/4"	3'-2 3/4"	4 1/2"
#37 & #38	5 3/4"	3'-3/4"	4 1/2"

* Theoretical dimension
 # For beam at P.G.L. these depths are measured at flange tips only.



TYPICAL TRANSITION SECTION



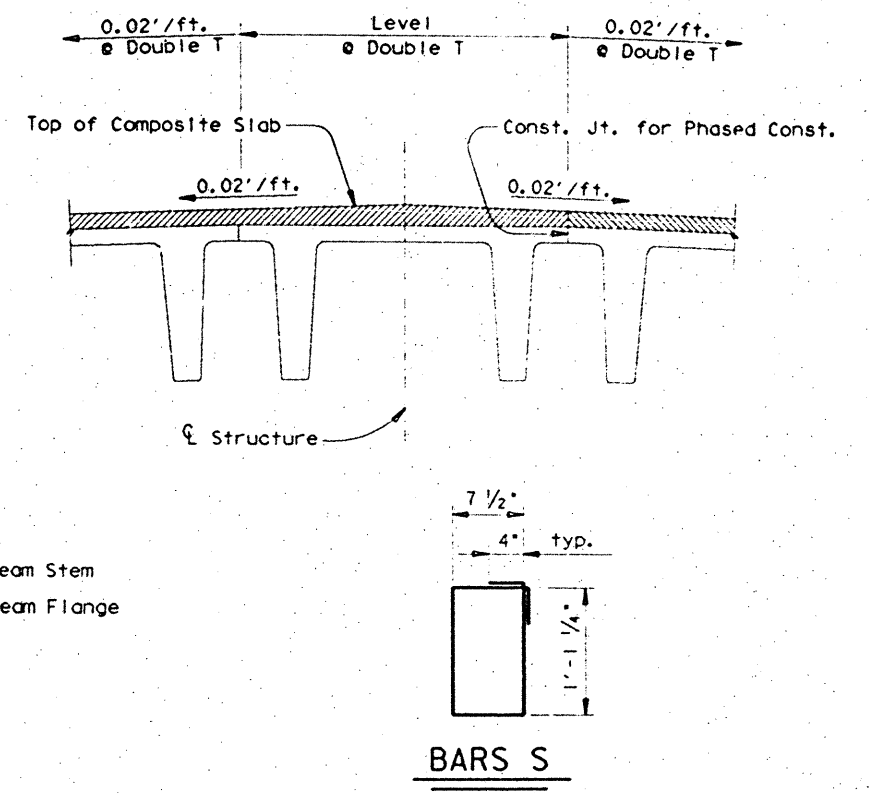
WITH ARMOR JOINT

WITHOUT ARMOR JOINT

SECTION AT INTERIOR BENTS



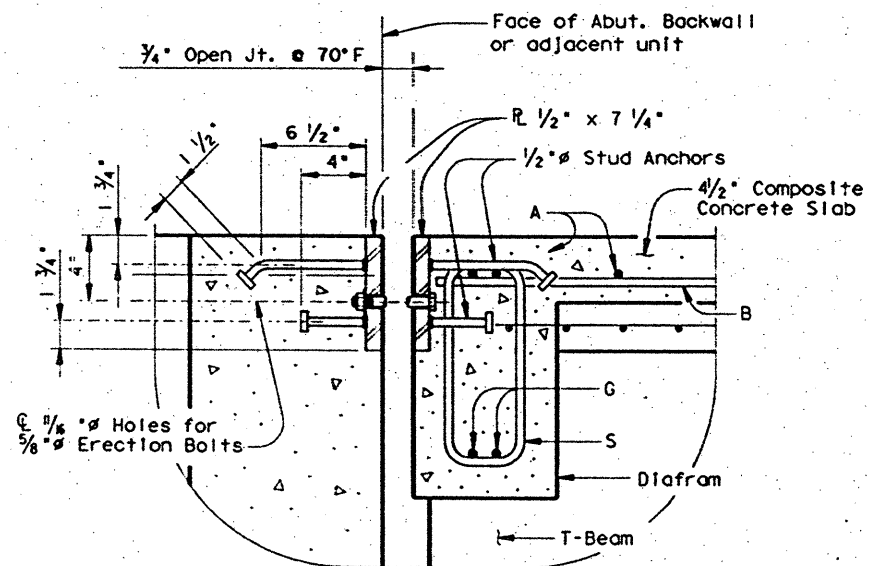
SECTION AT ABUTMENTS



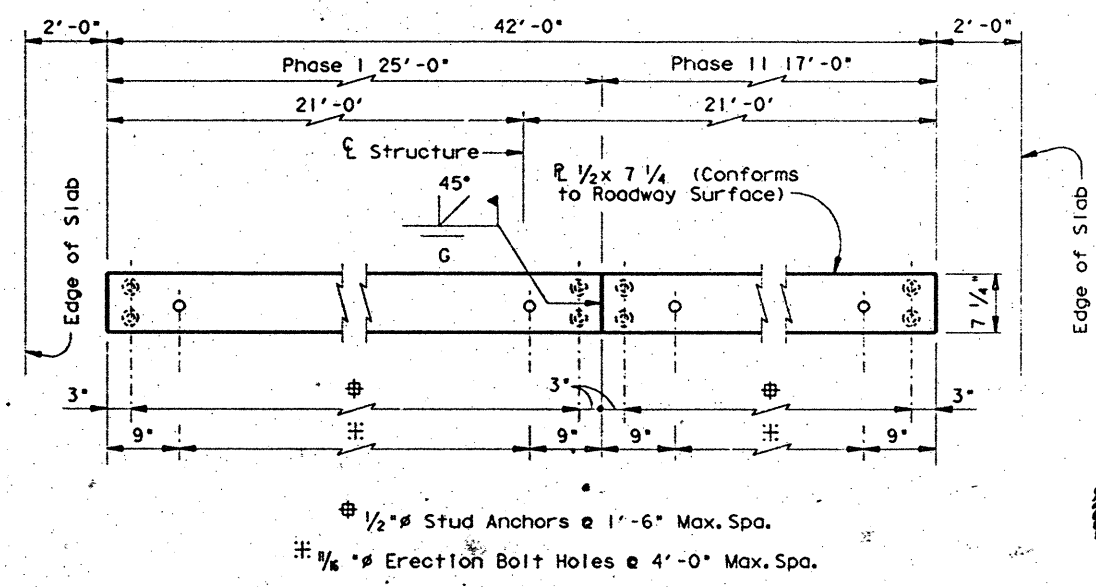
BARS S

GENERAL NOTES:

- Armor Joints shall be provided at all locations shown on plans. Provision for preformed joint sealer shall be made when thus indicated on bridge layout, "Armor Joint (PJS)" or otherwise noted in plans.
- Stud Anchors shall be electric arc end-welded to the plates with complete fusion.
- Erection holes shall be punched to line up in final position of armor joint.
- Armor plates shall be shipped in convenient lengths (20'-0" max. (10'-0" min. except as shown otherwise in plans.) Corresponding plate sections shall be match marked and bolted together for shipment.
- Field splices shall be made by butt welding.
- Erection bolts shall be cut off flush with armor plates or straps promptly after the concrete in the latter of the two placements has taken initial set.

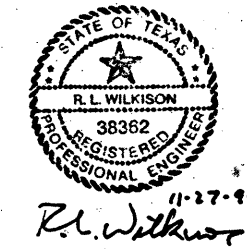


SECTION THRU ARMOR JOINT



ELEVATION OF BASIC ARMOR PLATE

1/2" Stud Anchors @ 1'-6" Max. Spa.
 1/8" Erection Bolt Holes @ 4'-0" Max. Spa.



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HS 20 LOADING

STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION

PRESTRESSED CONCRETE
T BEAM
(MISCELLANEOUS DETAILS)

D45350A-ZFA2-[35515614364m]x01.DGN		PREPARED BY AND FOR USE OF TEXAS SDH&PT	
DATE: OCTOBER 1990	STATE: 16	FEDERAL REGION: 6	FEDERAL AID PROJECT: CRP09 (216) BRM
BY: RAC	COUNTY: NUECES	SECTION: 2263	JOB: 02
BY: TEB			REPORT: SH361
BY: JTM			
BY: TEB			