

FEDERAL REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	NH-465-4(284)125	1995	1	67

**INDIANA  
DEPARTMENT OF  
TRANSPORTATION**

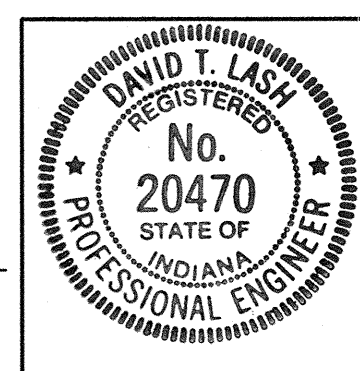
**BRIDGE PLANS  
FOR SPANS OVER 20 FEET  
ON  
NORTH RIVER ROAD OVER I-465  
PROJECT NO. NH-465-4(284)125  
( ) P.E.  
( ) R/W  
( ) CONSTR.**

INDEX					
PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION
NH-465-4(284)125	I-465-127-5275	RECONSTRUCTION OF CONTINUOUS COMPOSITE STEEL BEAM	40'-6 7/8, 68'-3, 68'-3, 40'-6 7/8	I-465	50+00 "S-23-A"
SHEET NO.	SHEET DESIGNATION	SUBJECT			F.H.W.A. APPROVAL
1	ONE SHEET	TITLE AND INDEX SHEET			
2	ONE SHEET	DETOUR ROUTE			
3	ONE SHEET	TYPICAL CROSS SECTIONS			
4	ONE SHEET	PLAN AND PROFILE			
5	ONE SHEET	SUPERELEVATION TRANSITIONS			
6	ONE SHEET	LAYOUT			
7	D1	GENERAL PLAN			
8	D2	STRUCTURE SECTION AND GENERAL NOTES			
9	D3	BENT NO. 1 AND NO. 5 REMOVAL DETAILS			
10-13	D4-D7	BENT NO. 1 AND NO. 5 DETAILS			
14	D8	BENT NO. 2, NO. 3 AND NO. 4 REMOVAL DETAILS			
15-17	D9-D11	BENT NO. 2, NO. 3 AND NO. 4 DETAILS			
18	D12	FRAMING PLAN			
19,20	D13,D14	STRUCTURAL STEEL DETAILS			
21	D15	FLOOR DETAILS			
22	D16	R.C. BRIDGE APPROACH DETAILS			
23	D17	CONCRETE BRIDGE RAILING DETAILS			
24	ONE SHEET	BRIDGE SUMMARY			
25-30	SIX SHEETS	ROADWAY CROSS SECTIONS			

B  
21773

TRAFFIC DATA			
A.D.T. (1994)	6200	V.P.D.	
A.D.T. (2014 PROJECTED)	16200	V.P.D.	
D.H.V. (19 PROJECTED)		V.P.H.	
TRUCKS		D.H.V. % A.D.T.	%
DESIGN SPEED		40	M.P.H.
ACCESS CONTROL		NONE	
FUNCTIONAL CLASSIFICATION		URBAN COLLECTOR	

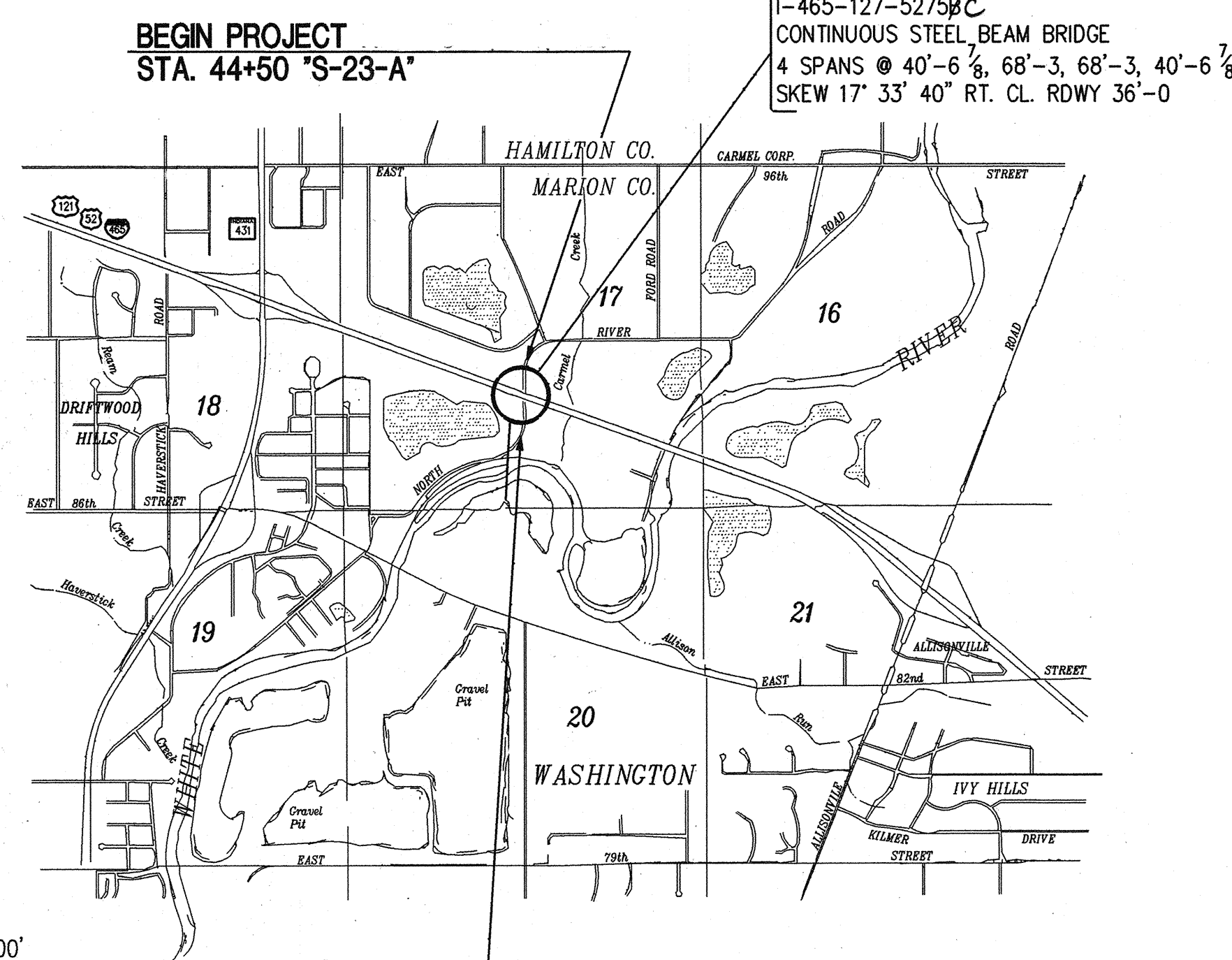
THESE PLANS PREPARED BY:  
**FINK ROBERTS & PETRIE, INC.**  
3307 West 96th Street  
Indianapolis, Indiana 46268  
317-872-9400 Tele 317-876-2408 Fax



DATE: December 7, 1994  
CERTIFIED BY: *David T. Lash*

BRIDGE LENGTH: 0.041 MI.  
ROADWAY LENGTH: 0.186 MI.  
TOTAL LENGTH: 0.227 MI.  
MAX. GRADE: 5.20 %

BRIDGE REHABILITATION ON STRUCTURE NO. I-465-127-5275<sup>B</sup> LOCATED IN SECTION 17, T17N, R4E, WASHINGTON TWP., MARION COUNTY AT R.P. 43+93



SCALE: 1"=2000'

BEGIN PROJECT  
STA. 44+50 "S-23-A"

I-465-127-5275<sup>B,C</sup>  
CONTINUOUS STEEL BEAM BRIDGE  
4 SPANS @ 40'-6 7/8, 68'-3, 68'-3, 40'-6 7/8  
SKEW 17' 33' 40" RT. CL. RDWY 36'-0

NOTE  
WHENEVER NH-465-4(284)125  
APPEARS ON THESE PLANS OR CONTRACT DOCUMENTS  
IT SHALL BE INTERPRETED AS NH-465-4(284)125

INDEX CONTINUED				
SHEET NO.	SHEET DESIGNATION	SUBJECT	F.H.W.A. APPROVAL	ADOPTED "A" REVISION "P"
31	BRIDGE STD. SHEET BR-1	CONCRETE BRIDGE RAILING TRANSITION TYPE TGB	3-9-93	A-AUG 1992
32	BRIDGE STD. SHEET BR-1A	CONCRETE BRIDGE RAILING TRANSITION TYPE TGB	3-9-93	A-AUG 1992
	BRIDGE STD. SHEET BR-2	CONCRETE BRIDGE RAILING TRANSITION TYPE WGB		
	BRIDGE STD. SHEET BR-2A	CONCRETE BRIDGE RAILING TRANSITION TYPE WGB		
33	BRIDGE STD. SHEET C-1	MISCELLANEOUS DETAILS	1-26-93	A-DEC 1992
	BRIDGE STD. SHEET C-2	MISCELLANEOUS DETAILS		
34	BRIDGE STD. SHEET C-3	MISCELLANEOUS DETAILS	1-26-93	A-NOV 1992
	BRIDGE STD. SHEET C-4	MISCELLANEOUS DETAILS		
35	BRIDGE STD. SHEET C-5	PRECAST DECK PANEL DETAILS	PENDING	R-10-3-94
	BRIDGE STD. SHEET D	CASTING DETAILS ROADWAY DRAINS		
	BRIDGE STD. SHEET D1	ADJUSTING FRAME DETAILS FOR ROADWAY DRAINS		
	BRIDGE STD. SHEET PB	PRESTRESSED CONCRETE TYPE I-BEAMS		
	BRIDGE STD. SHEET PB	PRESTRESSED CONCRETE TYPE I-BEAMS		
	BRIDGE STD. SHEET PB6	PRESTRESSED BOX BEAMS		
	BRIDGE STD. SHEET PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE		
	BRIDGE STD. SHEET PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE		
	BRIDGE STD. SHEET PB10	TOLERANCES FOR FABRICATION OF PRESTRESSED BEAMS		
	BRIDGE STD. SHEET PB11	ELASTOMERIC BEARING PAD DETAILS		
	BRIDGE STD. SHEET R2B	BRIDGE LIGHTING DETAILS		
36	BRIDGE STD. SHEET S-1	B BORROW PLACEMENT	1-22-87	R-12-01-86
37	BRIDGE STD. SHEET SH1	STEEL SHOE DETAILS	2-1-85	R-10-29-84
	BRIDGE STD. SHEET SS-1	STRUCTURAL EXPANSION JOINTS CLASS SS, SHEET 1		
	BRIDGE STD. SHEET SS-2	STRUCTURAL EXPANSION JOINTS CLASS SS, SHEET 2		
	BRIDGE STD. SHEET TA	STANDARD TEMPORARY BRIDGE SHEET A		
	BRIDGE STD. SHEET TB	STANDARD TEMPORARY BRIDGE SHEET B		
	BRIDGE STD. SHEET			
	BRIDGE STD. SHEET			
	BRIDGE STD. SHEET			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET ME-1A	MULTIPLE PIPE CONCRETE ANCHORS	2-19-93	A-JAN 1993
38	ROAD STD. SHEET MU	STRUCTURE CONNECTIONS FOR EXTENSION	6-27-85	R-9-4-84
39	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
40	ROAD STD. SHEET MB-2	BRIDGE SLOPEWALL	5-21-82	R-4-1-82
41	ROAD STD. SHEET MN	UNDERDRAINS	9-24-85	R-6-3-85
	ROAD STD. SHEET JTS-A	STANDARD PAVEMENT JOINTS		
42	ROAD STD. SHEET RCBA-1	REINFORCED CONCRETE BRIDGE APPROACH	PENDING	A-11-1-94
43	ROAD STD. SHEET G-1	W-BEAM GUARDRAIL COMPONENTS	3-9-93	A-AUG 1992
44	ROAD STD. SHEET G-2	THREE-BEAM GUARDRAIL COMPONENTS	7-20-92	A-DEC 1991
45	ROAD STD. SHEET G-3	W-BEAM GUARDRAIL ASSEMBLIES	7-20-92	A-DEC 1991
46	ROAD STD. SHEET T-1	GUARDRAIL TRANSITION TYPE TGB	3-9-93	A-AUG 1992
	ROAD STD. SHEET T-1A	GUARD RAIL TRANSITION TYPE WGB		
47	ROAD STD. SHEET T-2	GUARDRAIL TRANSITION TYPE GP	3-9-93	A-AUG 1992
48	ROAD STD. SHEET T-3	GUARDRAIL TRANSITION TYPE VH	3-9-93	A-AUG 1992
49	ROAD STD. SHEET T-4	PIER CONNECTION DETAILS	7-20-92	A-DEC 1991
	ROAD STD. SHEET E-1	GUARDRAIL END TREATMENT TYPE I	7-20-92	A-DEC 1991
	ROAD STD. SHEET E-2	GUARDRAIL END TREATMENT TYPE OS		
	ROAD STD. SHEET E-3	GUARDRAIL END TREATMENT TYPE MS		
	ROAD STD. SHEET E-4	CURVED W-BEAM GUARDRAIL SYSTEM		
	ROAD STD. SHEET E-4A	CURVED W-BEAM GUARDRAIL SYSTEM		
	ROAD STD. SHEET E-4B	CURVED W-BEAM GUARDRAIL SYSTEM		
	ROAD STD. SHEET H-1	TWO-WAY TWO-LANE ROADSIDE HAZARD PROTECTION GUARDRAIL		
	ROAD STD. SHEET H-2	MULTI-LANE DIVIDED ROADSIDE HAZARD PROTECTION GUARDRAIL		
51	ROAD STD. SHEET B-1	BRIDGE APPROACH GUARDRAIL	3-9-93	A-AUG 1992
	ROAD STD. SHEET P-1	TWO-WAY TWO-LANE ROADSIDE PIER PROTECTION GUARDRAIL		
52	ROAD STD. SHEET P-2	MULTI-LANE DIVIDED ROADSIDE PIER PROTECTION GUARDRAIL	3-9-93	A-AUG 1992
	ROAD STD. SHEET P-3	MULTI-LANE DIVIDED MEDIAN SIDE PIER PROTECTION GUARDRAIL		
	ROAD STD. SHEET P-4	MULTI-LANE DIVIDED MEDIAN PIER PROTECTION GUARDRAIL		
	ROAD STD. SHEET GR10B	W-BEAM GUARD RAIL TERMINAL SECTION		
53	ROAD STD. SHEET CB2	TEMPORARY CONCRETE BARRIER	1-21-94	A-NOV 1993
54	ROAD STD. SHEET CB2A	TEMPORARY CONCRETE BARRIER	1-21-94	A-NOV 1993
55	ROAD STD. SHEET 1 DETOURS	STANDARD DETOUR SIGNS	PENDING	A-SEP 1988
	ROAD STD. SHEET 1A DETOURS	STANDARD DETOUR SIGNS		
56	ROAD STD. SHEET DET-1B	LANE CLOSURES FOR 6 LANE ROADS	PENDING	A-SEP 1988
57	ROAD STD. SHEET DET-2	MARKING DETOURS; LANE CLOSURES FOR 2 LANE ROADS	6-20-91	R-4-1-91
58	ROAD STD. SHEET DET-2A	STANDARD DETOUR SIGNS	PENDING	A-SEP 1988
59	ROAD STD. SHEET DET-3	SIGN DESIGN DETAILS	PENDING	R-9-1-88
60	ROAD STD. SHEET DET-3A	SIGN DESIGN DETAILS (WITH TABLES)	PENDING	R-9-1-88
61	ROAD STD. SHEET DET-4	SIGN DESIGN DETAILS	1-11-89	R-9-1-88
62	ROAD STD. SHEET DET-5	SIGN DESIGN DETAIL TABLES	PENDING	R-9-1-88
63	ROAD STD. SHEET DET-5A	SIGN DESIGN DETAIL TABLES	PENDING	R-9-1-88
64	TRAFFIC STD. SHEET MT-1	SIGN PANEL DETAILS	PENDING	R-5-1-89
65	TRAFFIC STD. SHEET MT-1A	WIDE FLANGE SIGN POST INSTALLATION	8-5-88	R-8-1-88
66	TRAFFIC STD. SHEET MT-2	MISCELLANEOUS STANDARDS	6-28-89	R-5-1-89
67	TRAFFIC STD. SHEET MT-3	MISCELLANEOUS STANDARDS	8-5-88	R-8-1-88

APPROVED FOR LETTING: 11/27/95  
*Philip H. Klinka*  
CHIEF, DIVISION OF DESIGN, INDIANA DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION  
DEPARTMENT OF TRANSPORTATION

APPROVED: \_\_\_\_\_

DIVISION ADMINISTRATOR \_\_\_\_\_ DATE \_\_\_\_\_

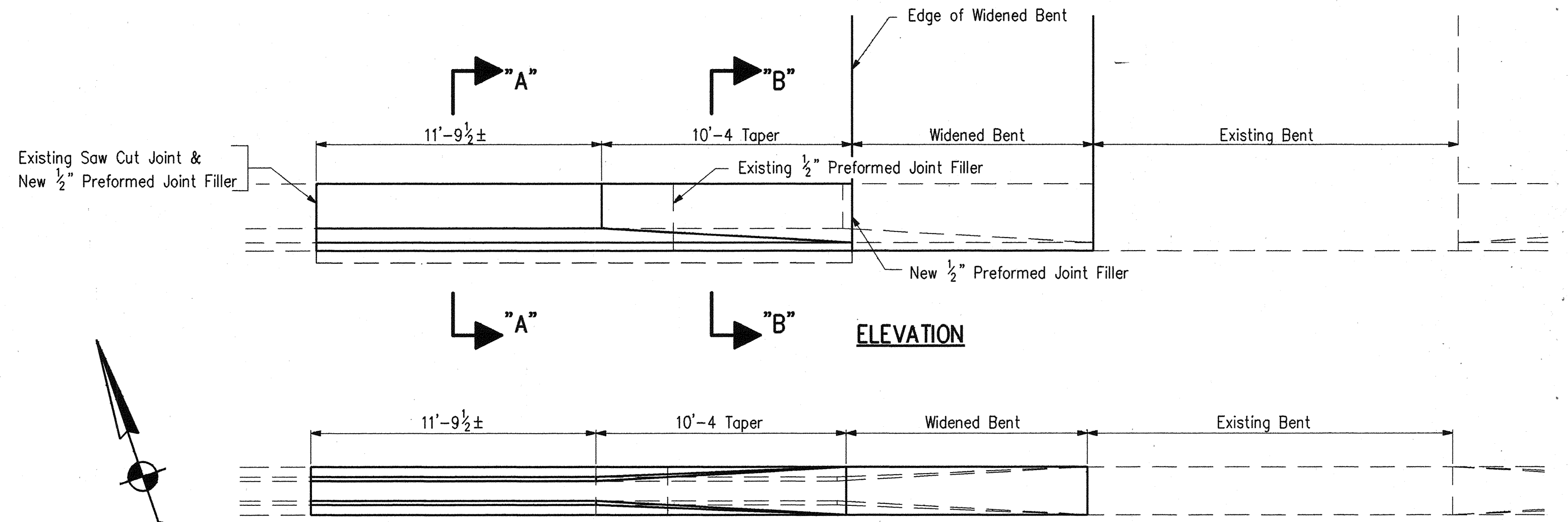
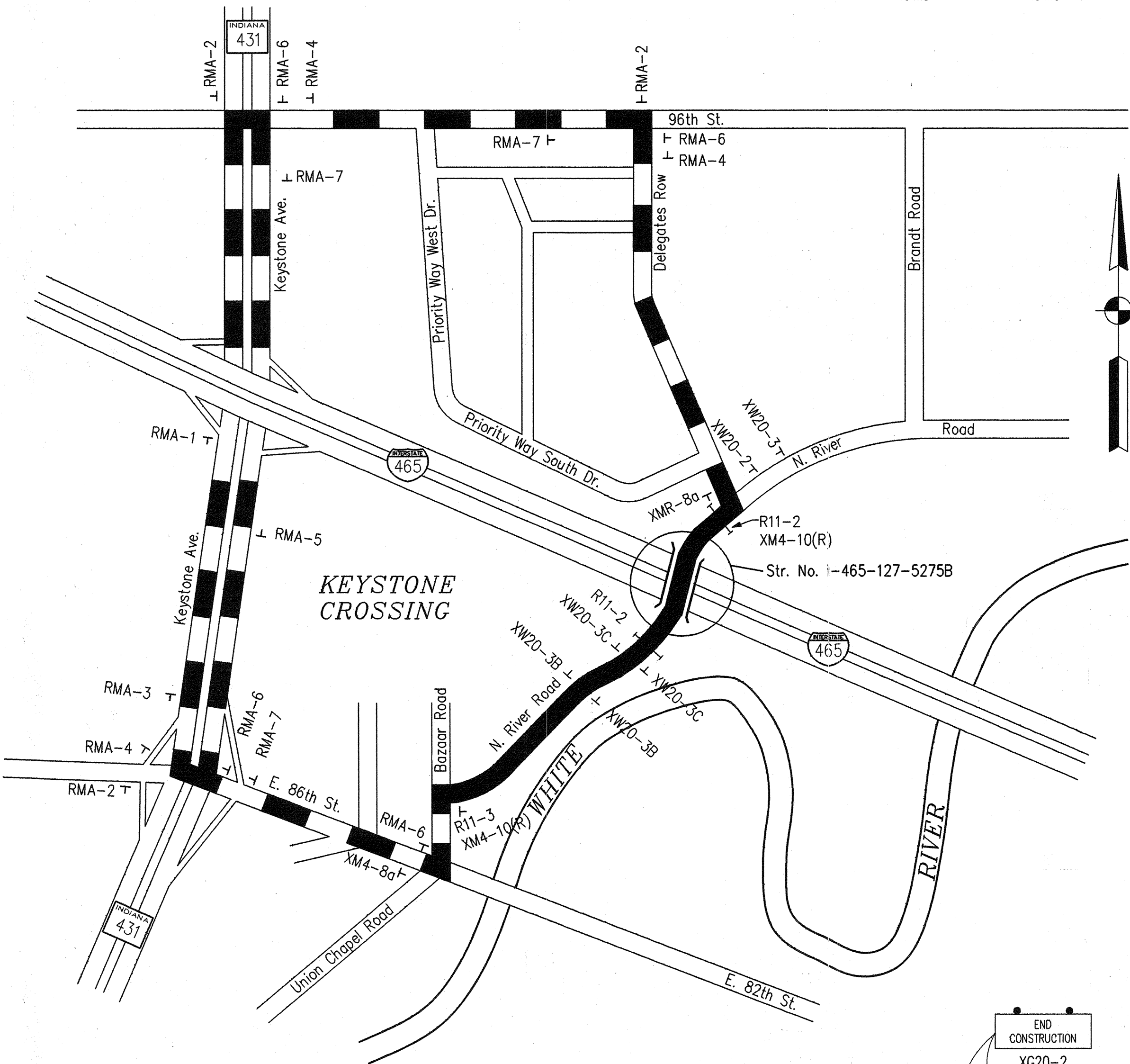
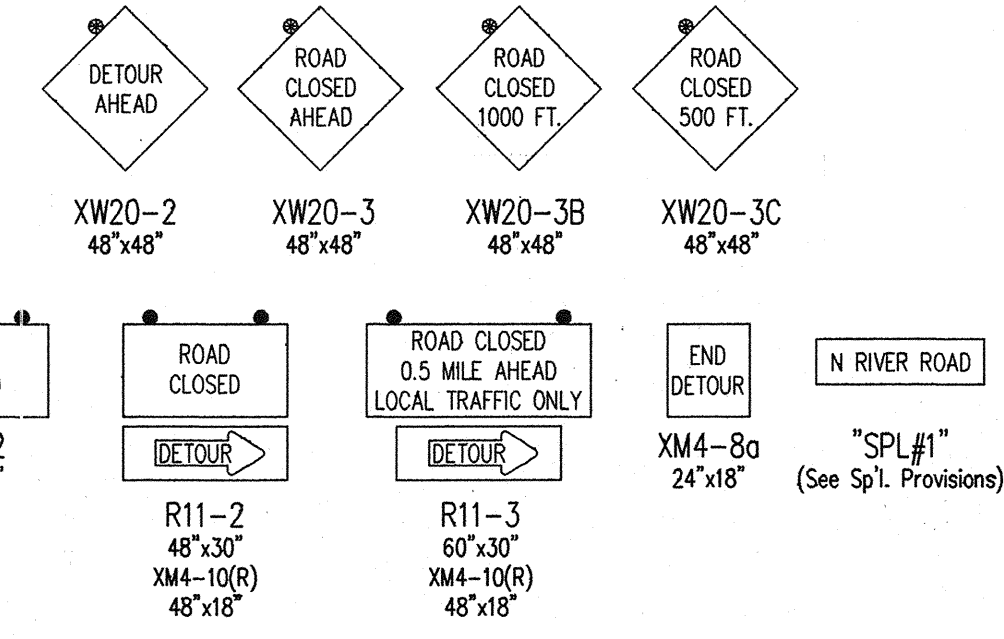
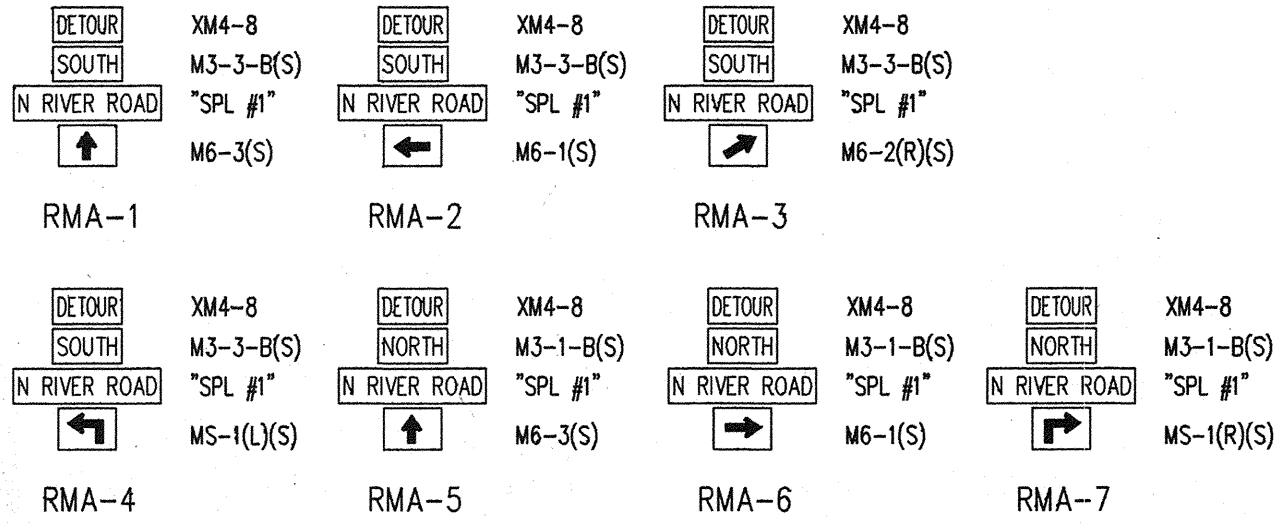
BRIDGE FILE: - I-465-127-5275<sup>B,C</sup>

REVISIONS	
DATE	SHEET NO.
1-25-95	Rev. Sheet No. 1, 4, Dwg. Dz.
3-24-95	Rev. Sheet No. 1, 3
9-26-95	Rev. Sht. 6; Delete Shts. 26, 27, 28 & 29. Add Shts. 26A, 27A, 28A & 29A

REVISIONS	
DATE	SHEET NO.

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 1993  
TO BE USED WITH THESE PLANS.





**Quantities:**  
 Concrete Barrier 22 Lft.  
 Surface Seal 166 Sft.  
 Masonry Coating 166 Sft.

**I-465 MEDIAN RECONSTRUCTION**  
 (See Special Provisions)

**DETOUR NOTES**

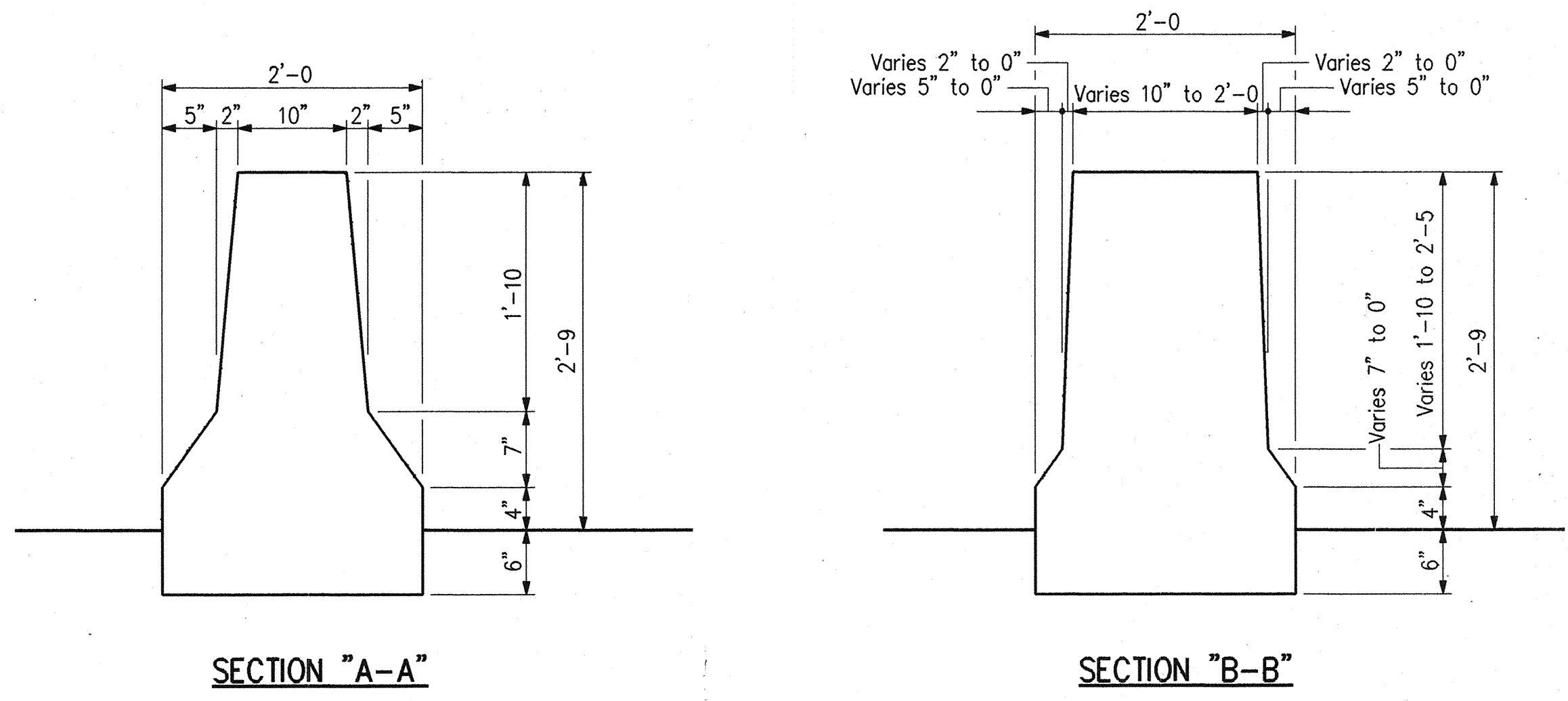
See Road Standard Sheet 1 Detours for additional details.  
 Road Closure Signs XG 20-5 (60"x36") are required.  
 Estimated Quantity = 2 Each.

All Type "A" Construction Signs shall be delineated with a Type A Construction Warning Light. (Not a Pay Item)

See Road Standard Sheet Det-1B for additional details of Daylight Lane Closures.

**SUMMARY OF QUANTITIES**

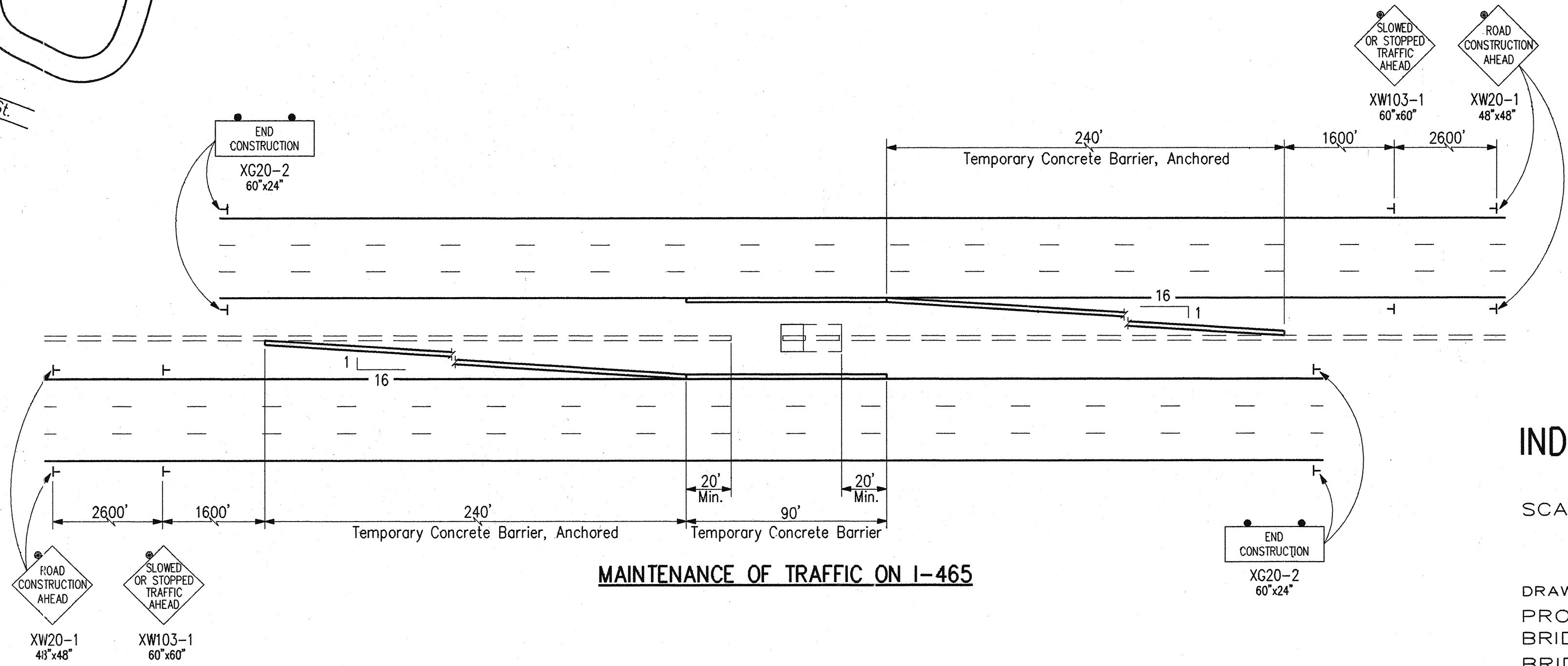
ITEM	QUANTITY
Type "A" Construction Sign	11 Each
Type "B" Construction Sign	3 Each
Type IIIA Barricade	2 Each
Detour Route Assembly	16 Each



**Quantities:**  
 Temporary Concrete Barrier 180 Lft.  
 Temporary Concrete Barrier, Anchored 480 Lft.  
 Type "A" Construction Sign 6 Each

**LEGEND**

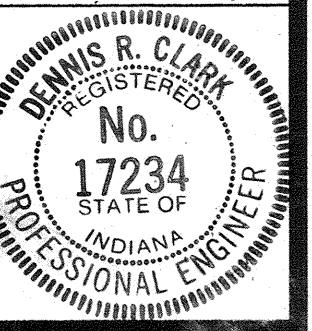
- Indicates Detour Route
- Indicates Road to be Closed
- Type IIIA Barricade
- Construction Warning Light Type "A" (Not a Pay Item)
- Construction Warning Light Type "B" (Not a Pay Item)
- Construction Sign



**MAINTENANCE OF TRAFFIC ON I-465**

**DETOUR ROUTE**  
**INDIANA DEPARTMENT OF TRANSPORTATION**  
**MARION COUNTY**

SCALE: - NONE  
 DATE: - December 7, 1994  
 DRAWING: OF SHEET: 2 OF 67  
 PROJECT: - NH/465-4(284)125  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-52755C

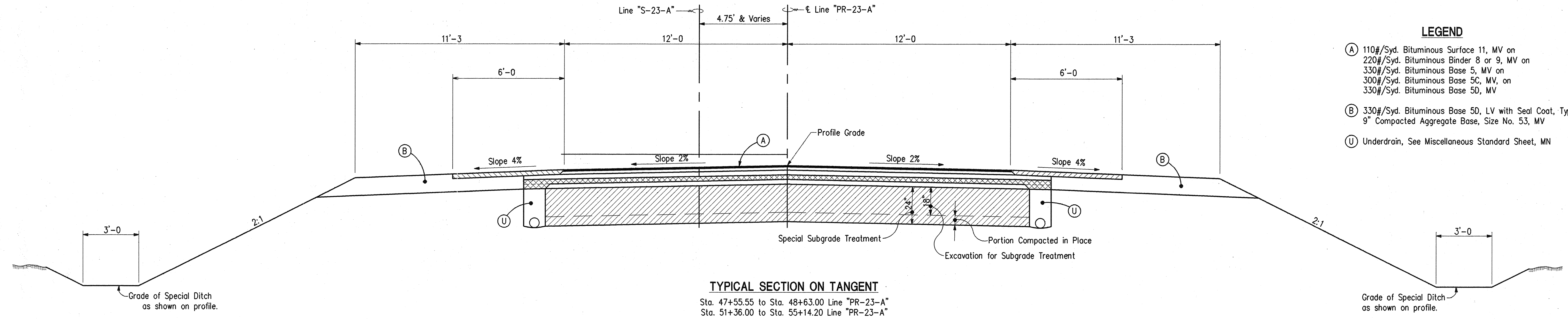


DESIGNED: DRC C.K.D. PEB  
 DRAWN: RGS C.K.D. DRC  
 TRACED: C.K.D.

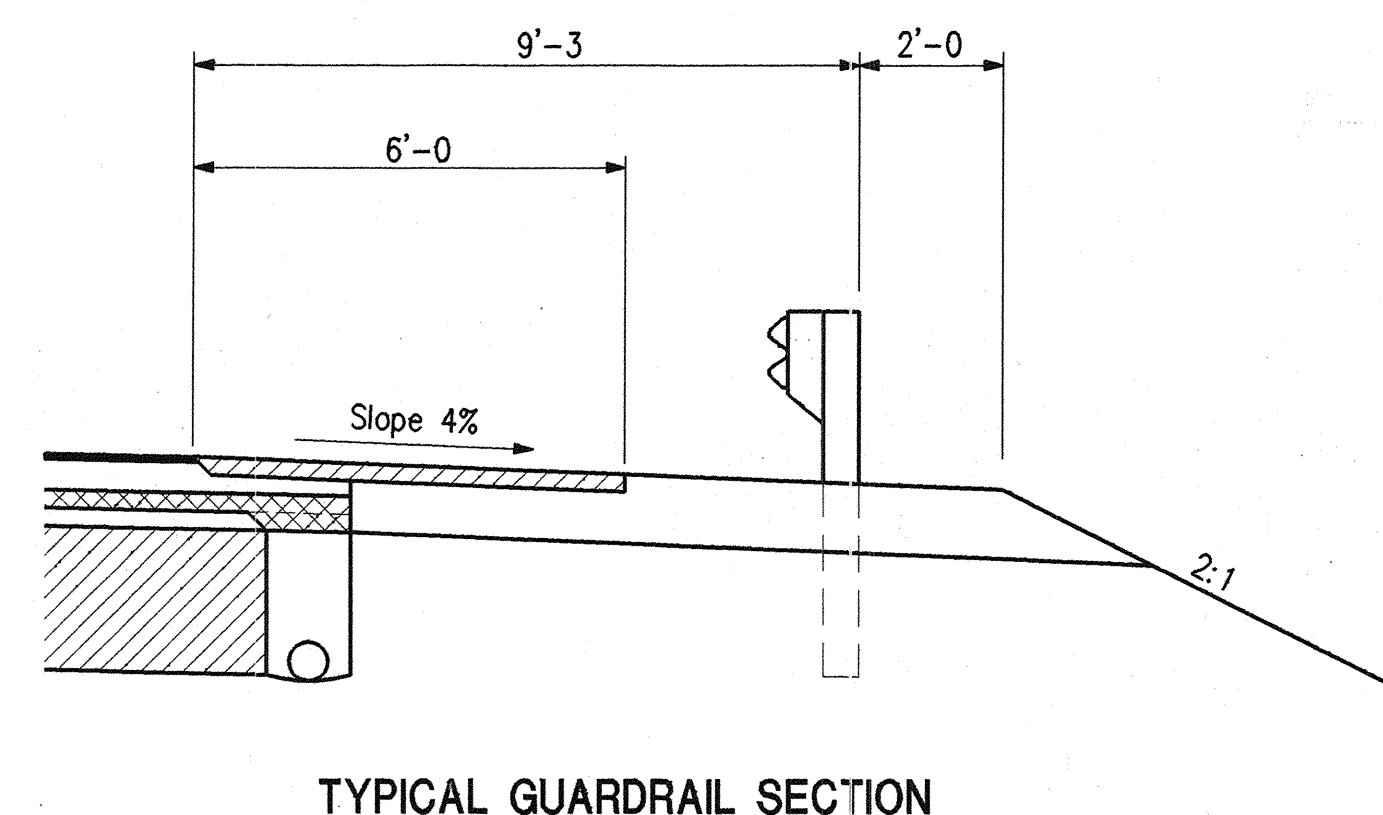
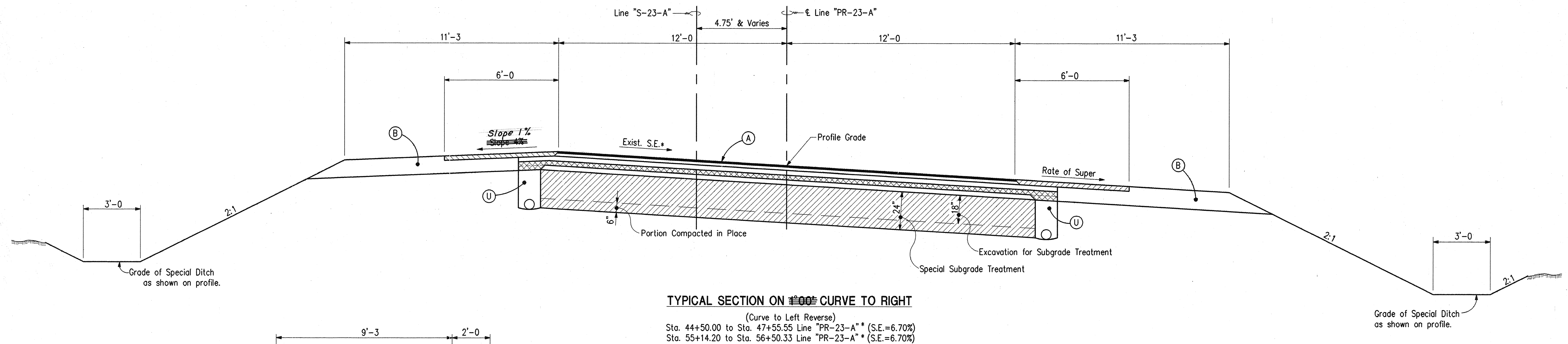
FEDERAL ROAD REGION	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND	NH/465-4(284)125	1995	3	67

**LEGEND**

- (A) 110#/Syd. Bituminous Surface 11, MV on 220#/Syd. Bituminous Binder 8 or 9, MV on 330#/Syd. Bituminous Base 5, MV on 300#/Syd. Bituminous Base 5C, MV, on 330#/Syd. Bituminous Base 5D, MV
- (B) 330#/Syd. Bituminous Base 5D, LV with Seal Coat, Type 2 on 9" Compacted Aggregate Base, Size No. 53, MV
- (U) Underdrain, See Miscellaneous Standard Sheet, MN



Note: Bituminous Material For Tack Coat shall be applied on new bituminous surfaces before a new lift of bituminous material is added.



# NORTH RIVER ROAD OVER I-465

## INDIANA DEPARTMENT OF TRANSPORTATION

### TYPICAL CROSS SECTIONS

SCALE:  $\frac{3}{8}'' = 1'-0''$



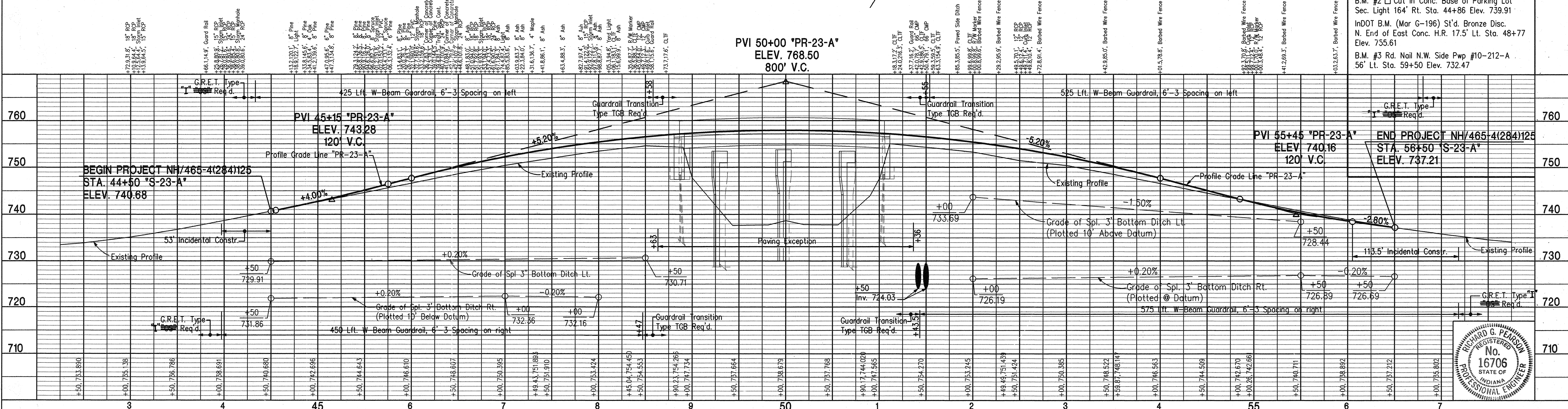
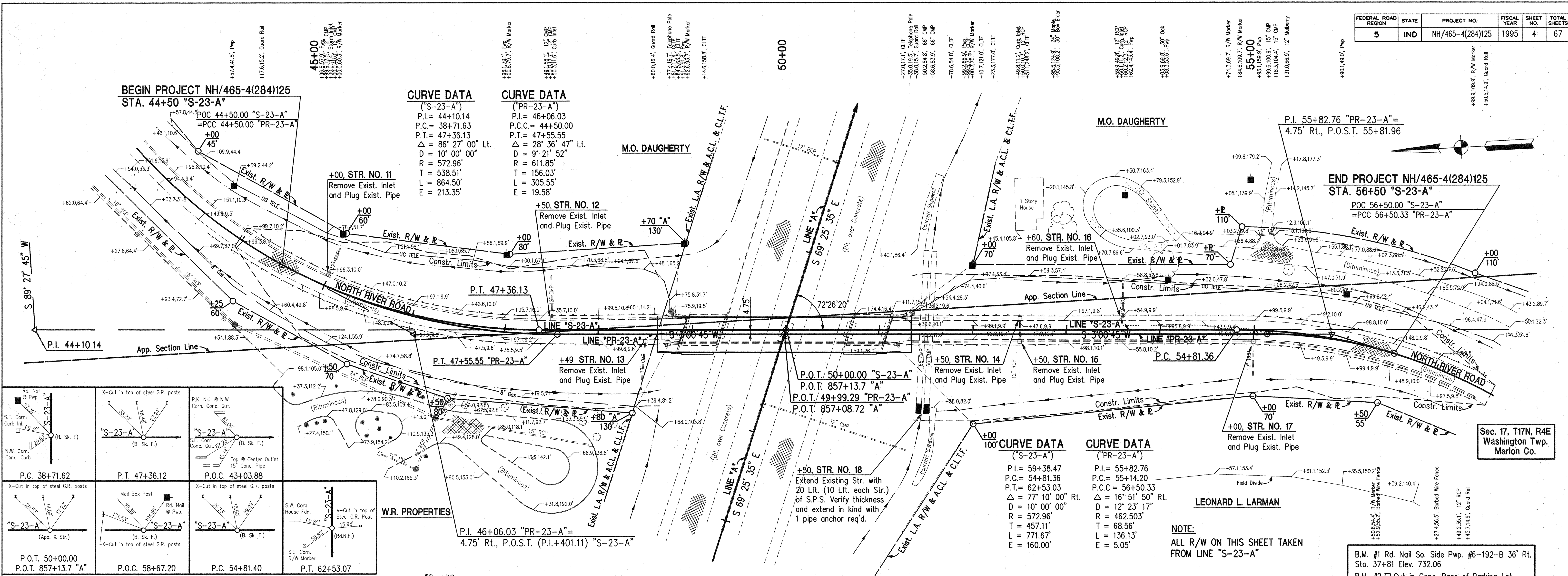
FEDERAL ROAD REGION	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND	NH/465-4(284)125	1995	4	67

DATE	BY	REVISION

DATE	BY	REVISION

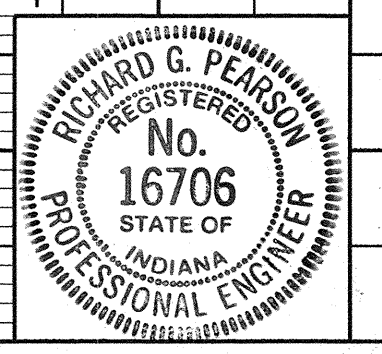
DATE	BY	REVISION

DATE	BY	REVISION



NOTE:  
ALL R/W ON THIS SHEET TAKEN FROM LINE "S-23-A"

B.M. #1 Rd. Nail So. Side Pwp. #6-192-B 36" Rt. Sta. 37+81 Elev. 732.06  
B.M. #2 □ Cut in Conc. Base of Parking Lot Sec. Light 164' Rt. Sta. 44+86 Elev. 739.91  
InDOT B.M. (Mar G-196) St'd. Bronze Disc. N. End of East Conc. H.R. 17.5' Lt. Sta. 48+77 Elev. 755.61  
B.M. #3 Rd. Nail N.W. Side Pwp #10-212-A 56" Lt. Sta. 59+50 Elev. 732.47



1-25-95 Rev. G.R.E.T.s

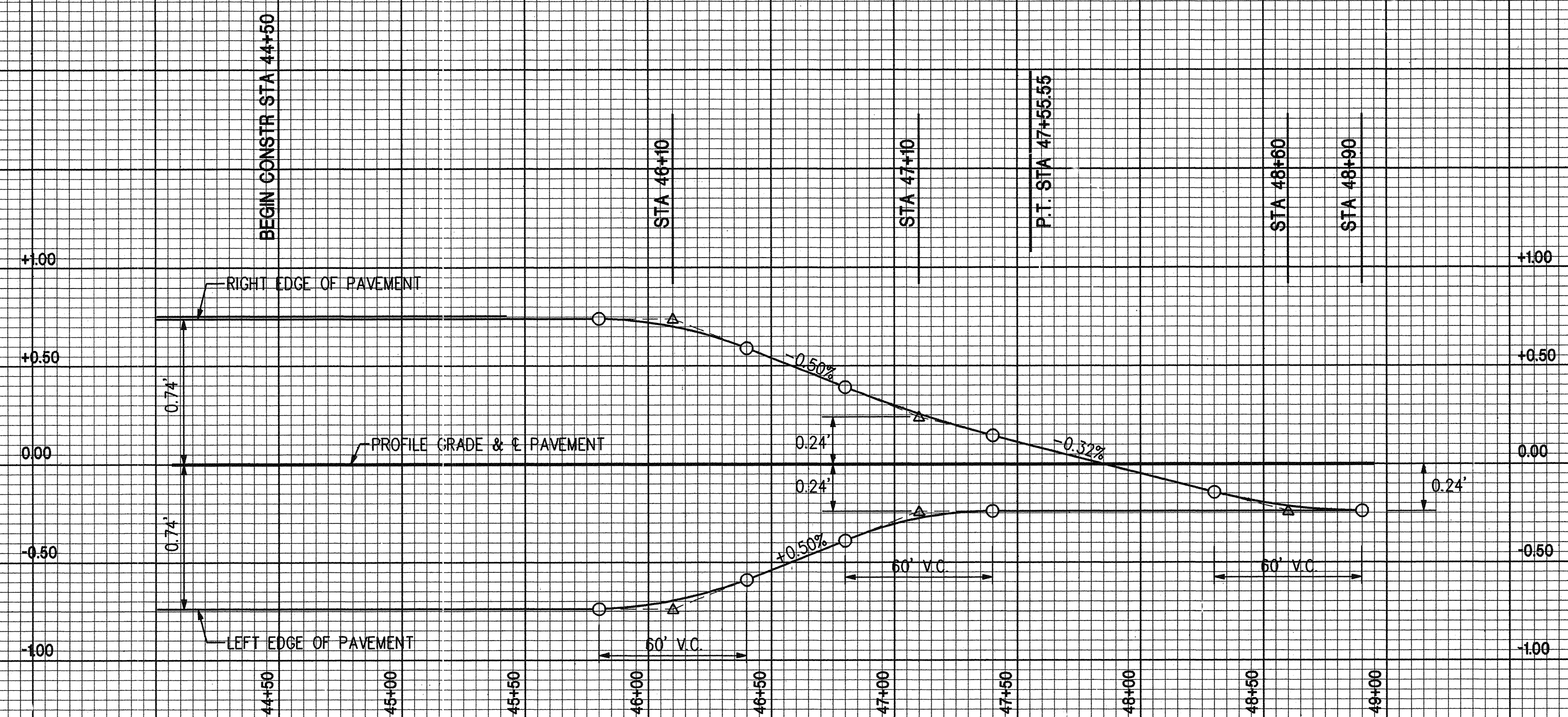
PLATE 3-PLAN-PROFILE B. R. R. STANDARD

1975

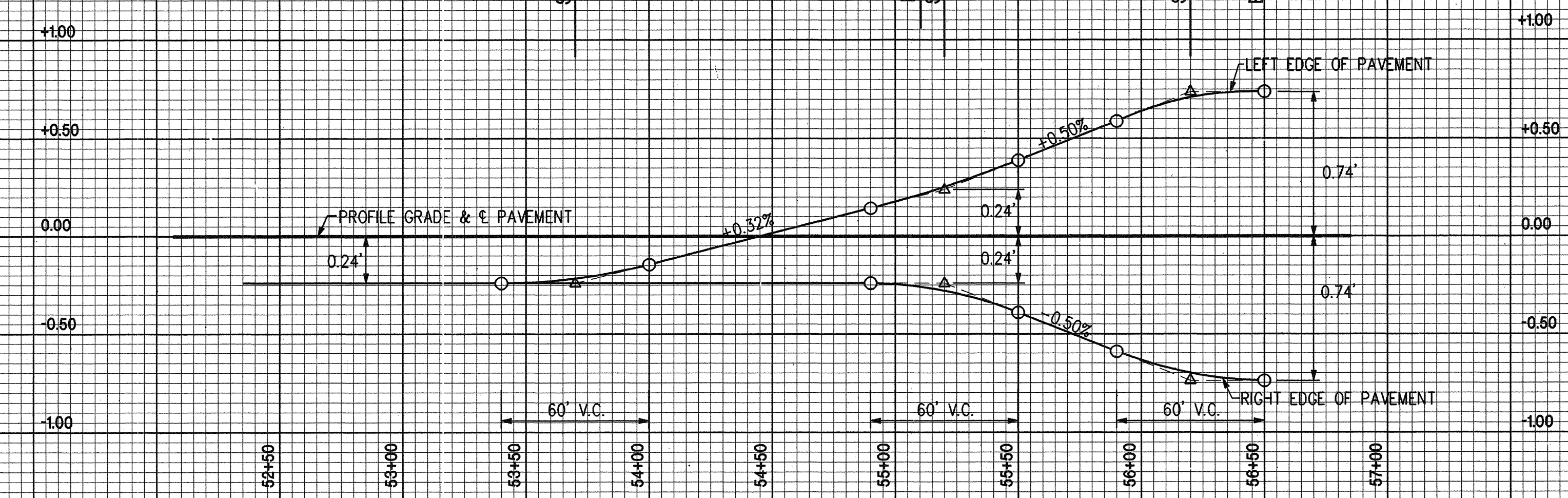
CONTRACT NO. B-21773

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
NH/465-4(284)125	"S-23-A"	4	67	





P.I. 46+06.03 "PR-23-A"  
 9°21'52" CURVE  
 S.E. = 6.7%  
 DESIGN SPEED: 40 M.P.H.



P.I. 55+82.76 "PR-23-A"  
 12°23'17" CURVE  
 S.E. = 6.7%  
 DESIGN SPEED: 40 M.P.H.

# SUPERELEVATION TRANSITION DETAILS

SCALE: HORIZ: 1"=40'-0"  
 VERT: 1"=0.5'

CONTRACT NO. B-21773

FEDERAL ROAD REGION	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND	NH/465-4(284)125	1995	5	67



**CURVE DATA**  
 ("S-23-A")  
 P.I. = 44+10.14  
 P.C. = 38+71.63  
 P.T. = 47+36.13  
 $\Delta = 86^\circ 27' 00''$  Lt.  
 D = 10' 00' 00"  
 R = 572.96'  
 T = 538.51'  
 L = 864.50'  
 E = 213.35'

**CURVE DATA**  
 ("PR-23-A")  
 P.I. = 46+06.03  
 P.C. = 44+50.03  
 P.T. = 47+55.55  
 $\Delta = 28^\circ 36' 47''$  Lt.  
 D = 9' 21' 52"  
 R = 611.85'  
 T = 156.03'  
 L = 305.55'  
 E = 19.58'

M.O. DAUGHERTY

Sec. 17, T17N, R4E  
 Washington Twp.  
 Marion Co.

M.O. DAUGHERTY

**PRESENT STRUCTURE**

Continuous Steel Beam Bridge  
 4 Spans @ 40'-0, 2 @ 68'-3 and 40'-0  
 25'-6 Clear Roadway - Skew 17'33'40" Rt.

**UTILITY OWNERS**

**Electric:**  
 Indianapolis Power and Light Co.  
 P.O. Box 15958  
 Indianapolis, In. 46206

**Gas:**  
 Citizens Gas and Coke Utility  
 2020 N. Meridian St.  
 Indianapolis, In. 46202

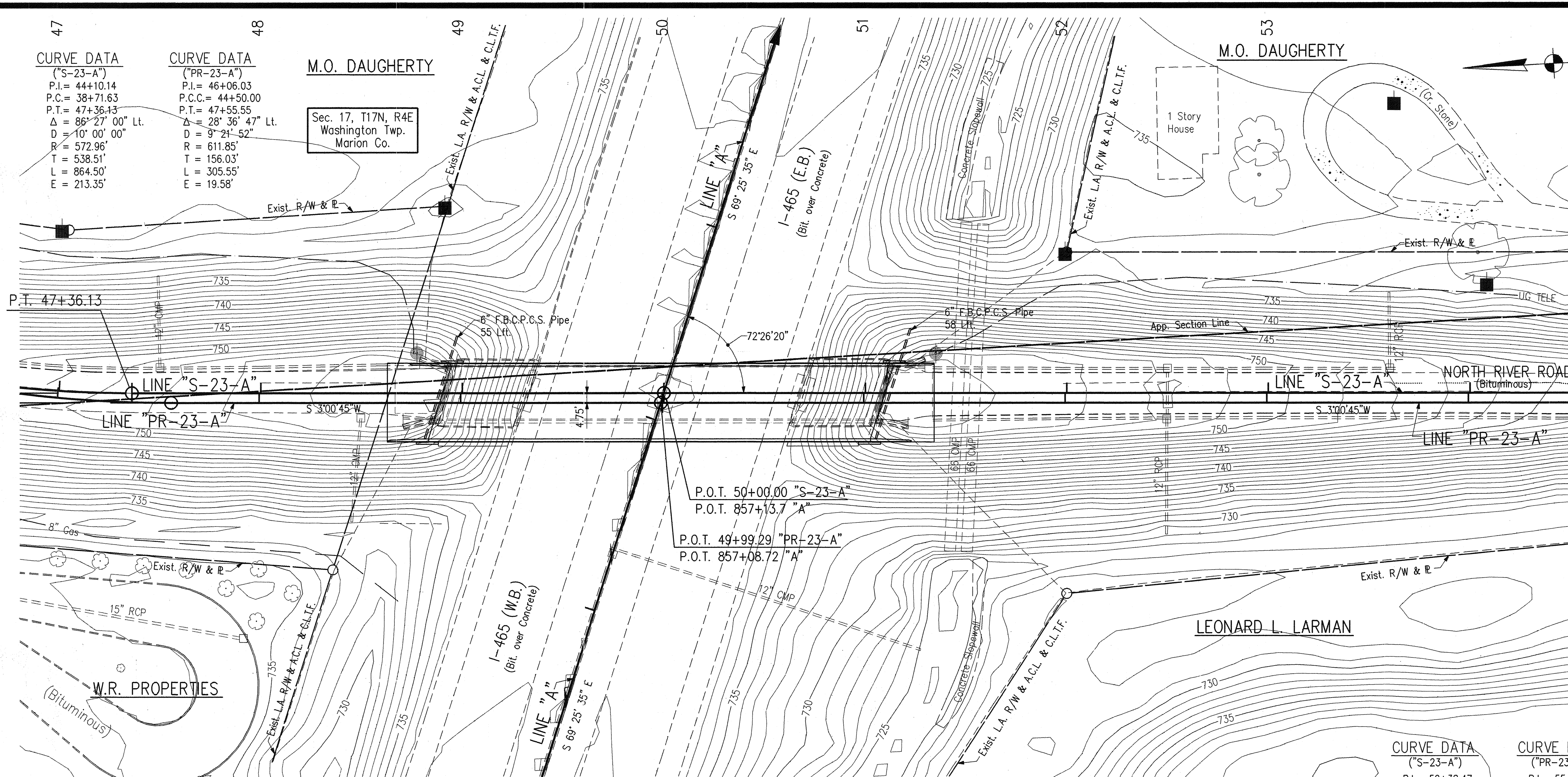
**Telephone:**  
 Indiana Bell Tel. Co. (Ameritech)  
 5870 N. College Ave.  
 Indianapolis, In. 46220

**EARTHWORK SUMMARY**

Common Excavation	<del>47,022 Cyds.</del> <b>6,252 Cyds.</b>
Fill +20%	<del>32,150 Cyds.</del> <b>19,226 Cyds.</b>
Borrow	<del>45,128 Cyds.</del> <b>12,697 Cyds.</b>
"B" Borrow for Structure Backfill	277 Cyds.

**NOTES:**

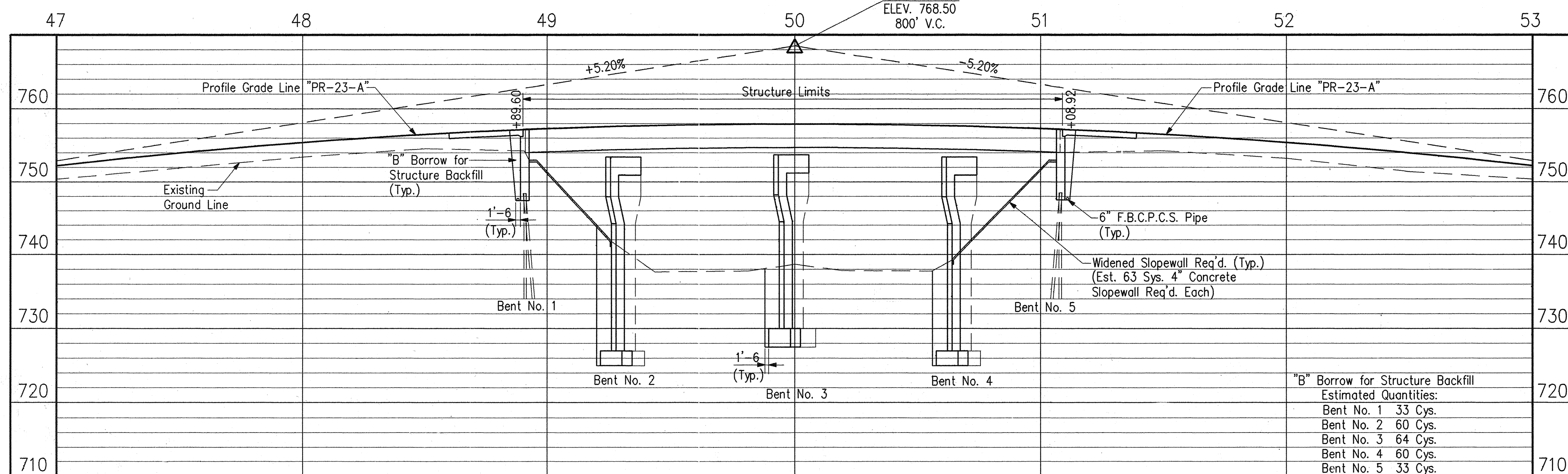
- The above quantities include ~~46,572 Cyds.~~ **5,602 Cyds.** of Benching.
- The above quantities do not include any quantities for the excavation and backfilling of areas requiring "Special Subgrade Treatment"; however, Excavation for Subgrade Treatment" is estimated at 338 Cyds.



**SITUATION PLAN**  
 Scale: - 1" = 30'-0  
 Contour Interval = 1'-0  
 PVI 50+00  
 ELEV. 768.50  
 800' V.C.

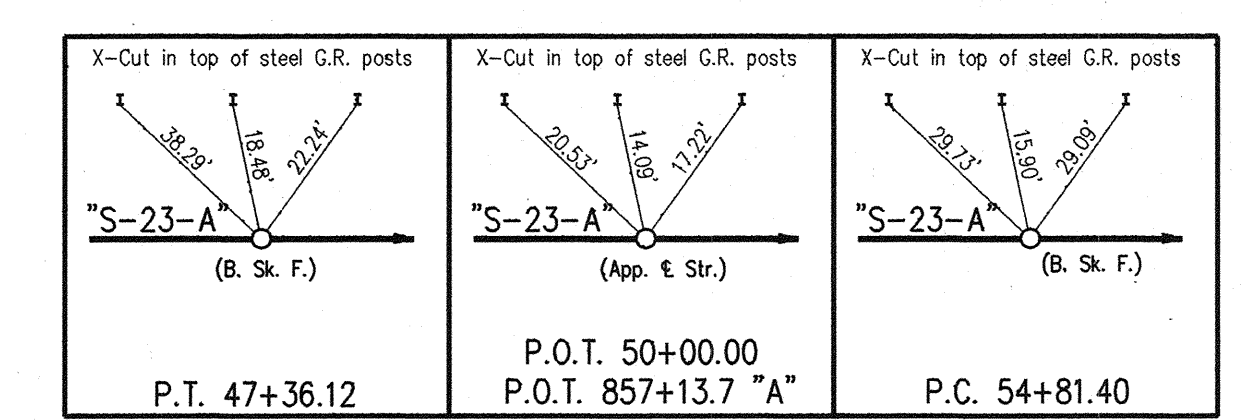
**CURVE DATA**  
 ("S-23-A")  
 P.I. = 59+38.47  
 P.C. = 54+81.36  
 P.T. = 62+53.03  
 $\Delta = 77^\circ 10' 00''$  Rt.  
 D = 10' 00' 00"  
 R = 572.96'  
 T = 457.11'  
 L = 771.67'  
 E = 160.00'

**CURVE DATA**  
 ("PR-23-A")  
 P.I. = 55+82.76  
 P.C. = 55+14.20  
 P.C.C. = 56+50.33  
 $\Delta = 16^\circ 51' 50''$  Rt.  
 D = 12' 23' 17"  
 R = 462.503'  
 T = 68.56'  
 L = 136.13'  
 E = 5.05'



**PROFILE**  
 Scale: - 1" = 30'-0 Horiz.  
 1" = 10'-0 Vert.

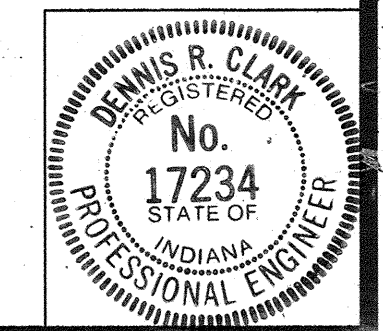
Note: Field Notes Book BR-3280



**LAYOUT**

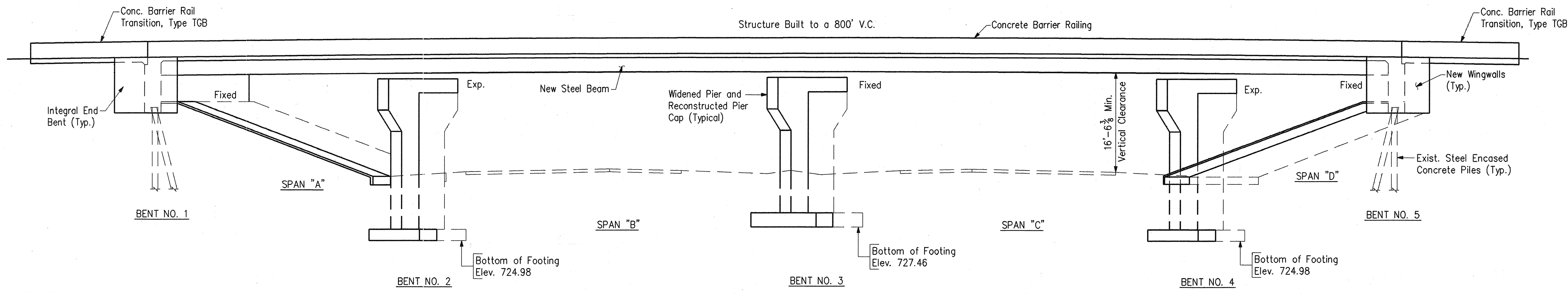
INDIANA DEPARTMENT OF TRANSPORTATION  
 MARION COUNTY

SCALE: - As Noted  
 DATE: - December 7, 1994  
 DRAWING: - OF SHEET: - 6 OF 67  
 PROJECT: - NH/465-4(284)125 STATION: -  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-5275



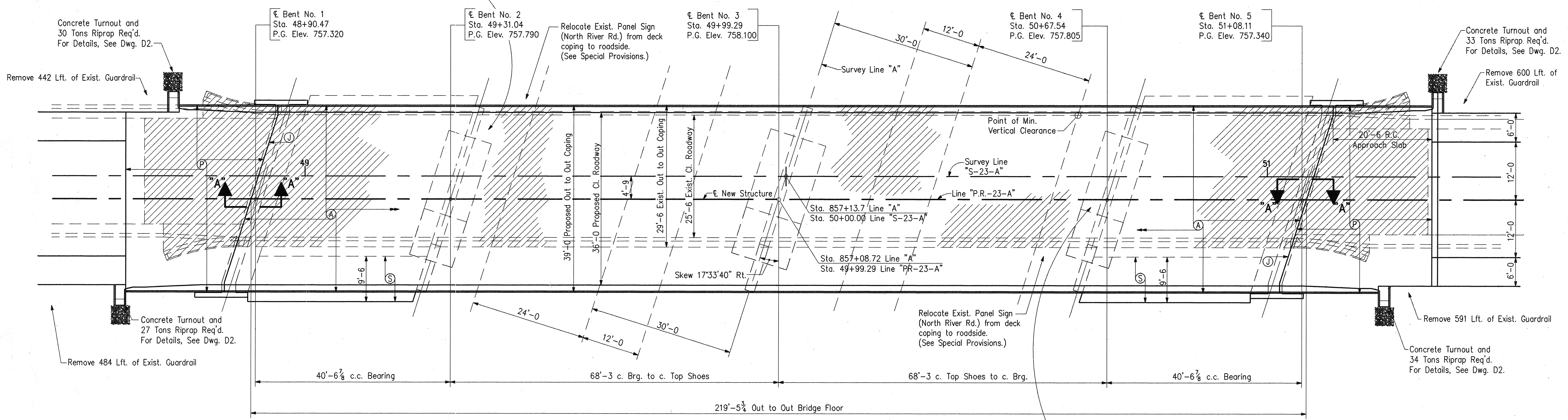
DESIGNED: DPJ C.K'D. DRC  
 DRAWN: PCR C.K'D. DRC  
 TRACED: C.K'D.





**ELEVATION**

135 LFT Removal of Guardrail (includes portion attached to pier face; 1 Guardrail Transition, Type GP; 75 LFT Guardrail, W-Beam, 6'-3 Spa. and Guardrail Transition, Type VH Req'd. Connect to guardrail in place.



**PLAN**

190 LFT Removal of Guardrail (includes portion attached to pier face); 2 Guardrail Transitions, Type GP (1 at incoming end of pier, 1 at outgoing end of pier); 75 LFT Guardrail, W-Beam, 6'-3 Spa., Long Post (at incoming end of pier) and 2 Guardrail Transitions, Type VH, 6'-3 Spa. (1 at incoming end of pier, 1 at outgoing end of pier) Req'd. Connect to guardrail in place.

**DESIGN DATA**

Live Load: HS20-44 Loading with impact and distribution of loads in accordance with 1992 AASHTO specifications and all interim specifications.

Dead Load: Actual weight plus 35#/Sft. for future wearing surface and 15#/Sft. for stay-in-place forms.

Slab: Designed for 16,000 Lbs. wheel plus impact with a 6 1/2" Structural Depth plus a 1 1/2" wearing surface.

**LEGEND**

- (A) Reinforced Concrete Bridge Deck (See Dwg. D15).
- (J) Type IA Joint.
- (P) 10" Reinforced Concrete Pavement (See Dwg. D16).
- (S) 4" Concrete Slopewall
- Concrete Removal Items

**NOTES**

See Dwg. D2 for existing and proposed sections and Section "A-A".

See Sht. 4 for Limits of New Guardrail.

**GENERAL PLAN**

CONTINUOUS STEEL BEAM BRIDGE  
 4 SPANS: 40'-6 1/2, 2 @ 68'-3, 40'-6 1/2,  
 36'-0 CLEAR ROADWAY SKEW: 17°33'40" RIGHT  
 NORTH RIVER ROAD OVER I-465

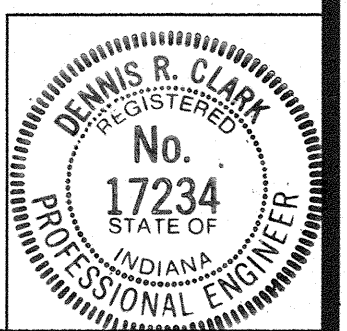
**INDIANA DEPARTMENT OF TRANSPORTATION**  
**MARION COUNTY**

SCALE: - 1" = 10'-0

DATE: - December 7, 1994

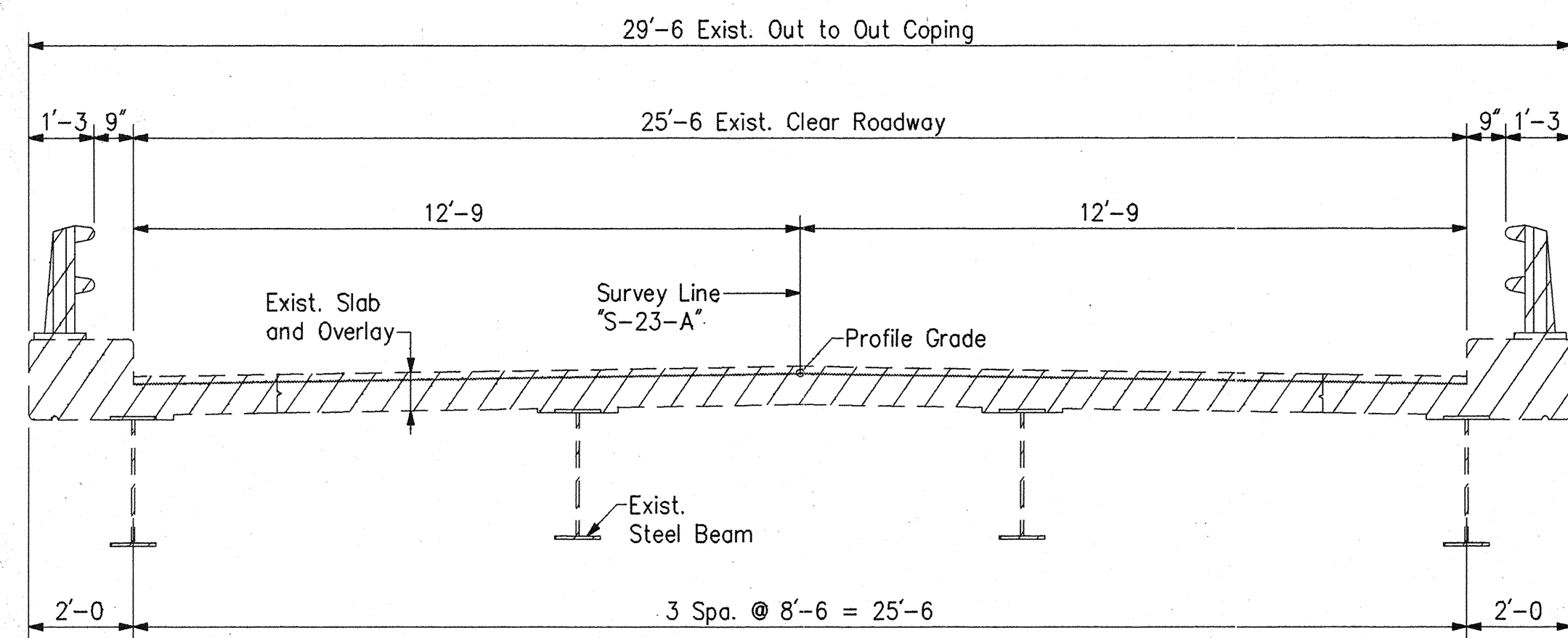
*Dennis R. Clark*

DRAWING: - D1 OF 17 SHEET: - 7 OF 67  
 PROJECT: - NH/465-4(284)125 STATION: - 50+00.00  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-5275# C



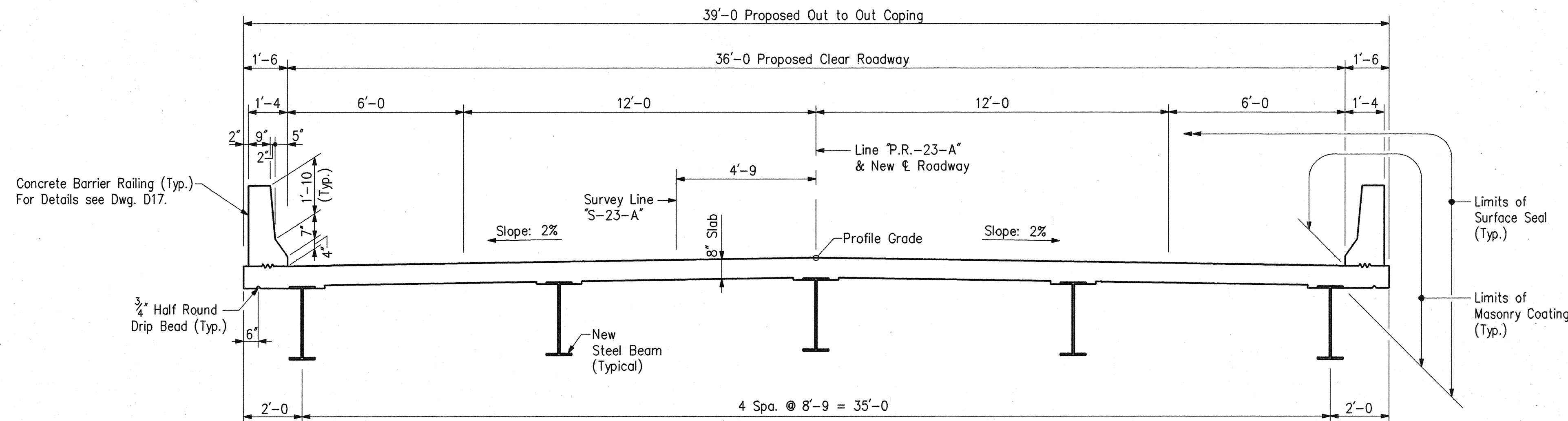
DESIGNED: DPJ	C'K'D: DRC
DRAWN: PCR	C'K'D: DRC
TRACED: C'K'D	



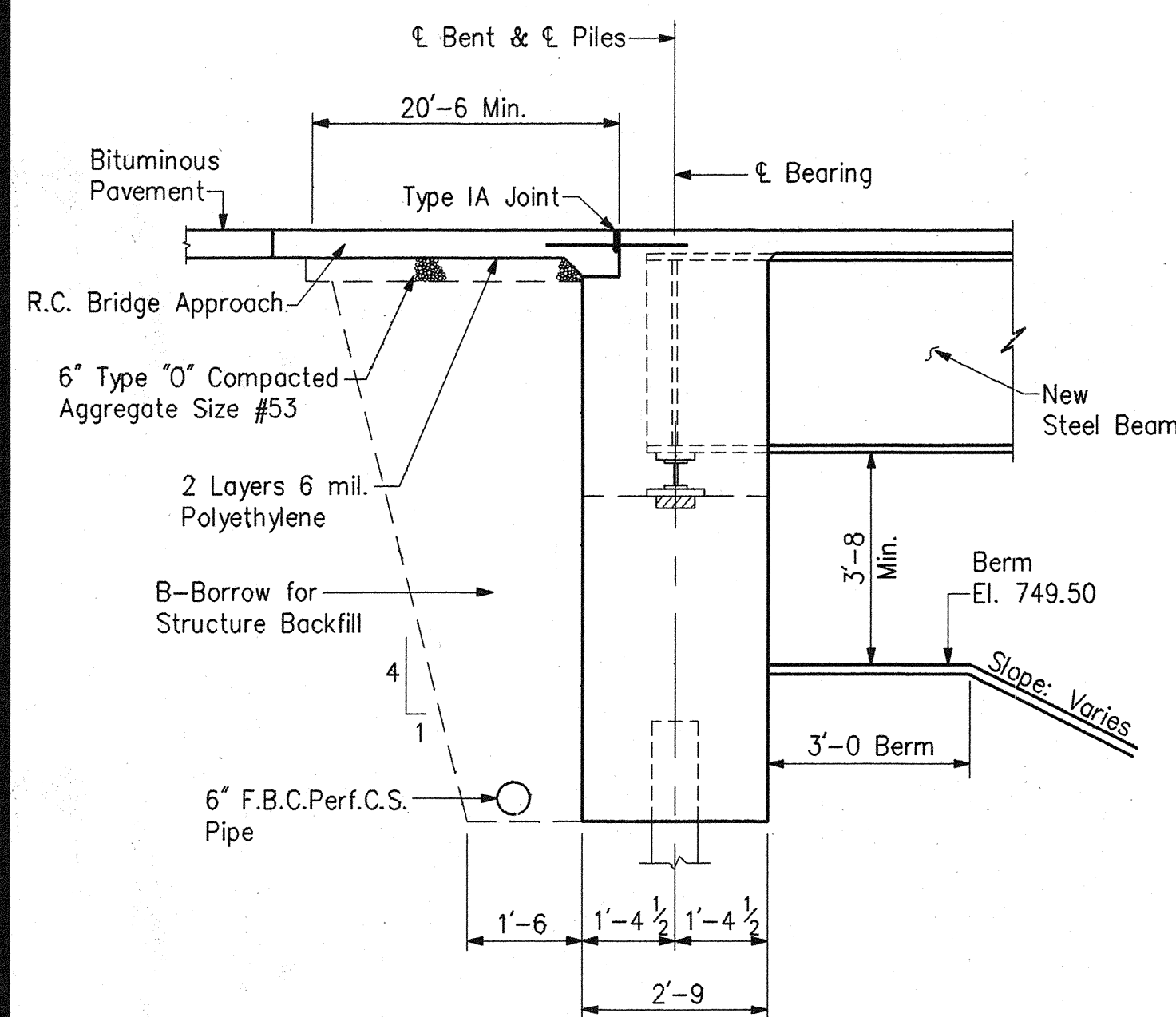


**EXISTING SECTION**  
(Showing Limits of Removal)

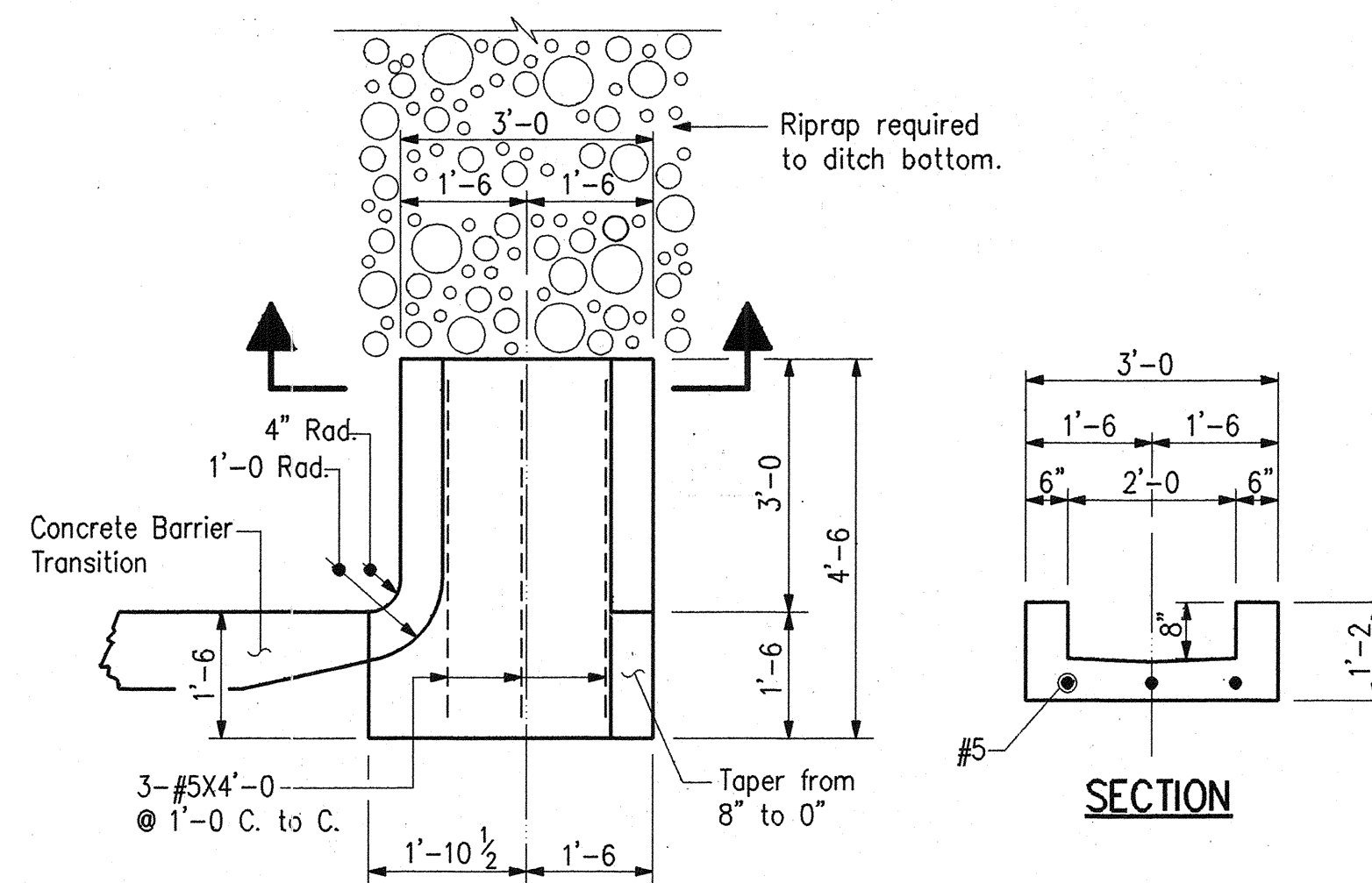
Limits of Removal Areas



**PROPOSED SECTION**  
(Showing Limits of New Construction)



**SECTION "A-A"**  
No Scale



**CONCRETE TURNOUT DETAILS**  
Scale:  $\frac{1}{2}'' = 1'-0''$

STANDARD DRAWING TABLE			
BRIDGE	ROAD	TRAFFIC	PURPOSE
BR-1			Concrete Bridge Rail Transition, Type TGB
BR-1A			Concrete Bridge Rail Transition, Type TGB
C1			Reinforcing Bar Notes, Bar Bending Details, Pile Splicing
C3			Construction Joint, Type A & Type IA
C5			Precast Deck Panel Details
S1			"B" Borrow Treatment at End Bents
SH1			Steel Shoe Details
	RCBA-1		Reinforcing for Bridge Approach
	MB2		Concrete Slopewall
	ME1A		Pipe Anchors
	MN		Underdrains
	MU		Pipe Extensions
	G1		W-Beam Guardrail Components
	G2		Thrie-Beam Guardrail Components
	G3		W-Beam Guardrail Components
	T-1		Guardrail Transition Type TGB
	T-2		Guardrail Transition, Type GP
	T-3		Guardrail Transition, Type VH
	T-4		Pier Connection Details
	EI		Guardrail End Treatment, Type <del>ES</del> I
	B1		Bridge Approach Guardrail
	P-2		Multi-Lane Divided Roadside Pier Protection Guardrail
	CB2		Temporary Concrete Barrier
	CB2A		Temporary Concrete Barrier
	1	Detours	Standard Detour Sign
	1B	Detours	Standard Detour Sign
	2	Detours	Standard Detour Sign
	2A	Detours	Standard Detour Sign
	3	Detours	Standard Detour Sign
	3A	Detours	Standard Detour Sign
	4	Detours	Standard Detour Sign
	5	Detours	Sign Design Details
	5A	Detours	Sign Design Details
	MT1		Wide Flange Sign Post Installation
	MT1A		Wide Flange Sign Post Installation
	MT2		Sign Details
	MT3		Sign Details

**GENERAL NOTES**

Plans for the existing structure are on file and are available on request in the Bridge Department of the Indiana Department of Transportation as: - File No. I-465-127-5275 and I-465-127-5275A

Reinforcing steel cover shall be 2 1/2" in top and 1" minimum in bottom of floor slabs, 3' in footings except bottom steel which shall be 4', and 2' in all other parts, unless noted.

Reinforcing steel in deck and railing to be epoxy coated.

Seal the following with a Portland Cement Concrete Sealer:

- the bridge deck surface
  - the roadway face, top and coping face of the barrier rail and transitions
  - the coping face and underside of the deck to the exterior beam
  - all exposed surfaces of the reconstructed median barrier rail on I-465
  - the bottom 2'-9" on each side of the widened center pier
  - the exposed ends of the "hammer head" piers at Pier Nos. 2, 3 and 4
- See Supplemental Specification 709.04C.

Masonry Coating (Color No. 27778) shall be applied as follows:

- the roadway face, top and coping face of the barrier rail and transitions
  - the coping face and underside of the deck to the exterior beam
  - all exposed surfaces of the reconstructed median barrier rail on I-465
  - the bottom 2'-9" on each side of the widened center pier
  - the exposed surfaces of the wingwalls
- See Special Provisions.

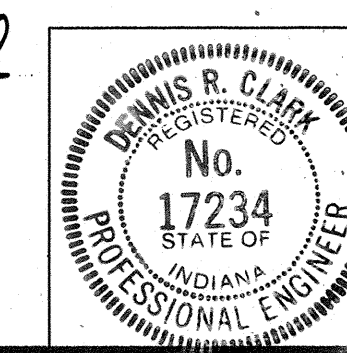
**STRUCTURE SECTION, GENERAL NOTES  
AND STANDARD DRAWING TABLE**

**INDIANA DEPARTMENT OF TRANSPORTATION**  
MARION COUNTY

SCALE: -  $\frac{3}{8}'' = 1'-0''$  Unless Otherwise Noted  
DATE: - December 7, 1994

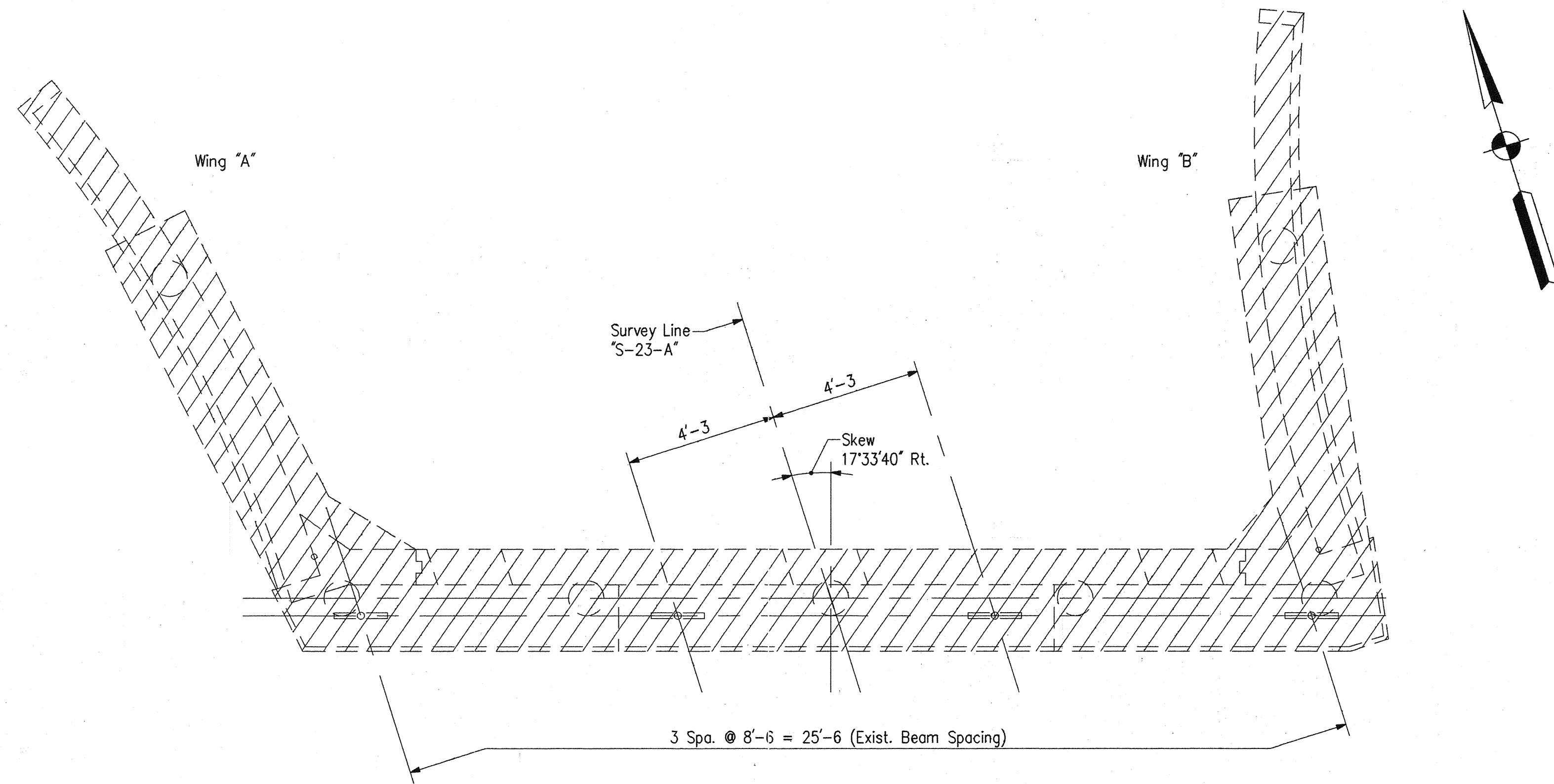
*Dennis R. Clark*

DRAWING: - D2 OF 17 SHEET: - 8 OF 67  
PROJECT: - NH-465-4(284)125 STATION: - 50+00.00  
BRIDGE CONTRACT NO. B-21773  
BRIDGE FILE: - I-465-127-5275# C

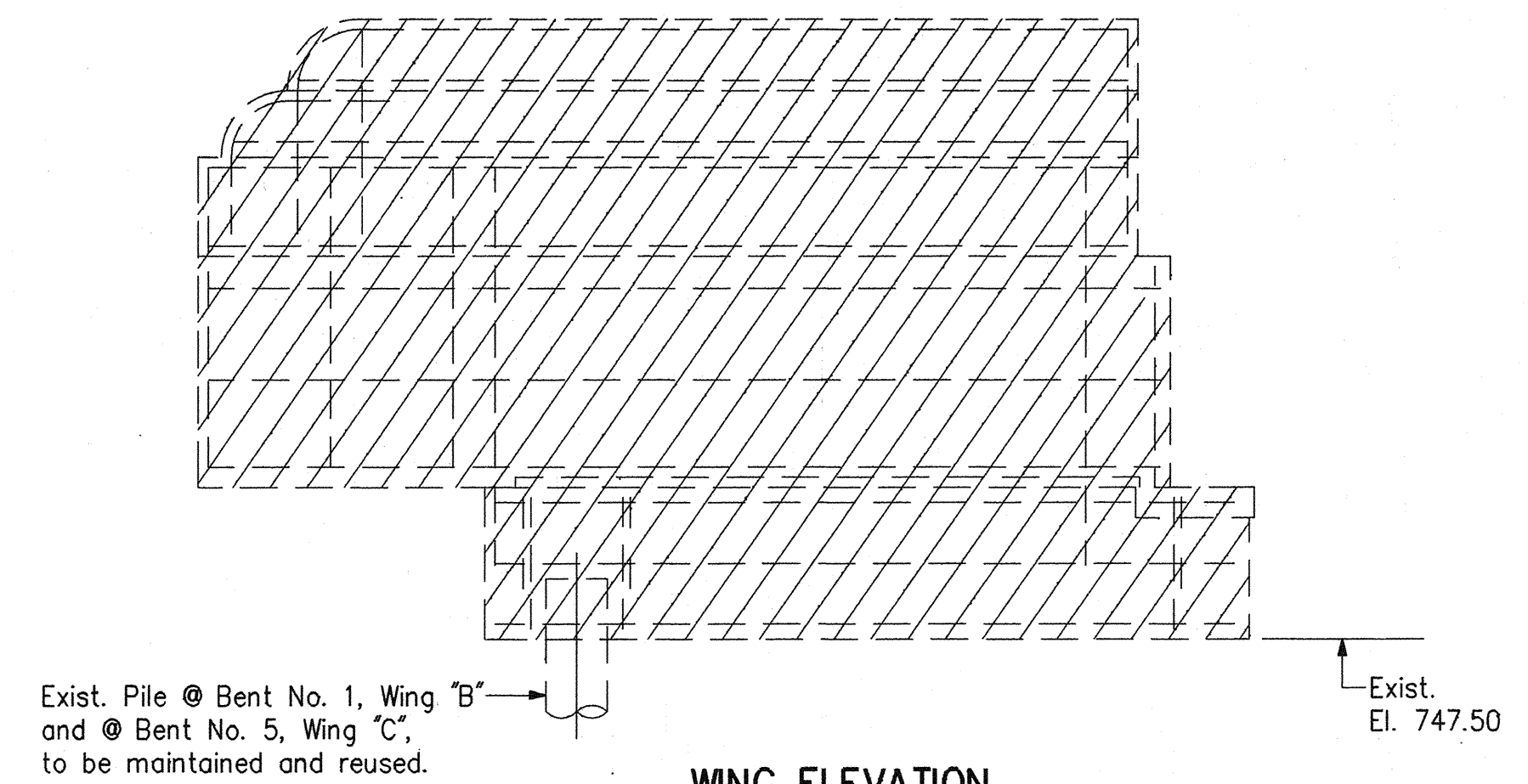


DESIGNED: DPJ C.K'D. DRC  
DRAWN: PCR C.K'D. DRC  
TRACED: C.K'D.

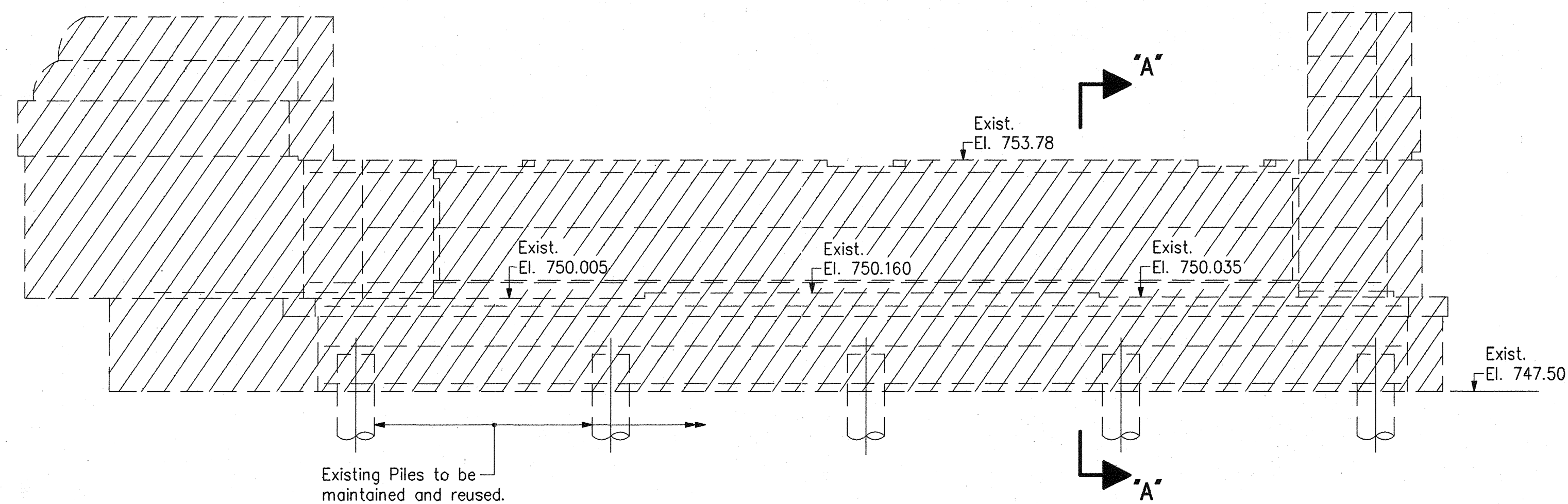




**PLAN**  
(Showing Bent No. 1, Bent No. 5 Same)

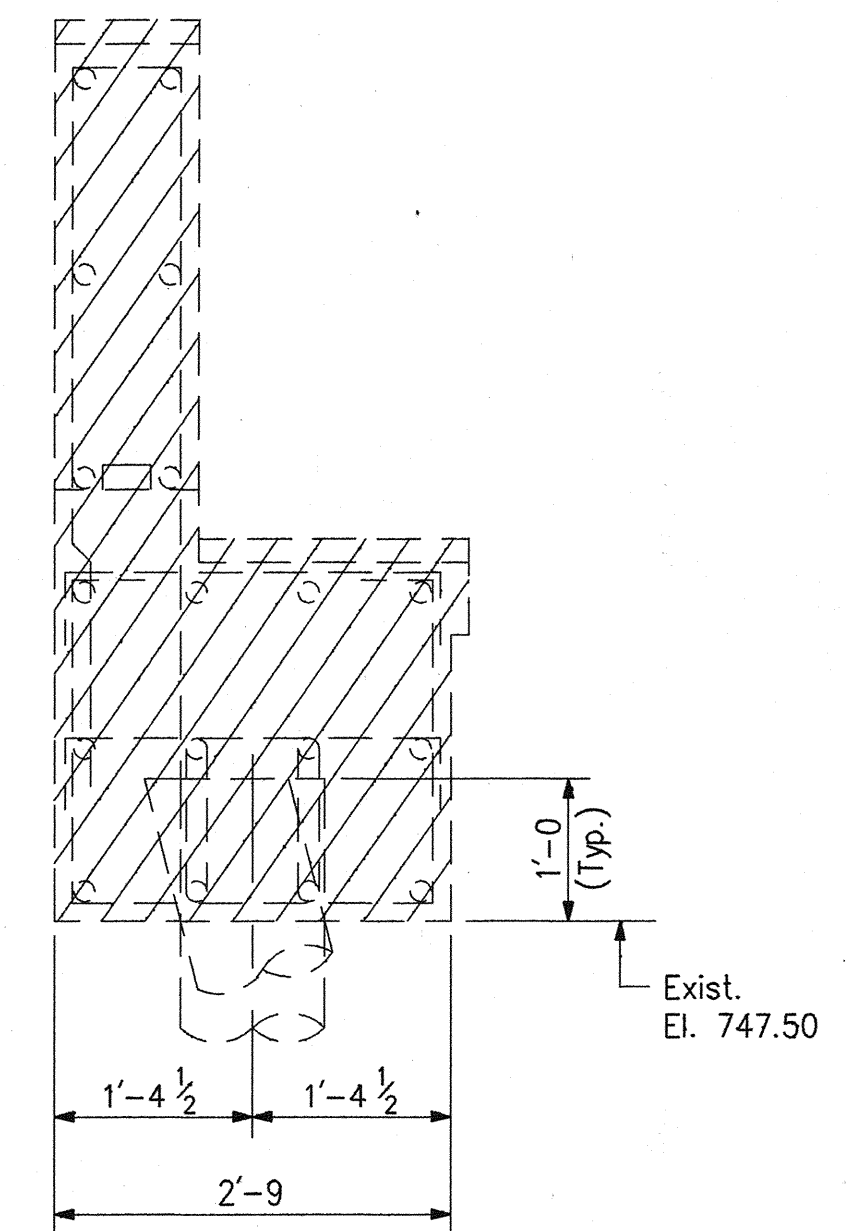


**WING ELEVATION**  
(Showing Wing "A", Wing "B" same by opposite hand)

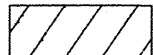


**ELEVATION**  
(Showing Bent No. 1, Bent No. 5 Same)

**NOTE:**  
All Existing Reinforcing  
to be removed.



**SECTION "A-A"**  
Scale:  $\frac{3}{4}" = 1'-0"$

- NOTES:**
- For General Notes, see Dwg. D2.
  - For Bent No. 1 and No. 5 Reconstruction Details, see Dwg. D4-D7.
-  Limits of Removal Areas

**BENT NO. 1 AND NO. 5 REMOVAL DETAILS**  
**INDIANA DEPARTMENT OF TRANSPORTATION**  
MARION COUNTY

SCALE: -  $\frac{3}{8}" = 1'-0"$  Unless  
Otherwise Noted

DATE: - December 7, 1994

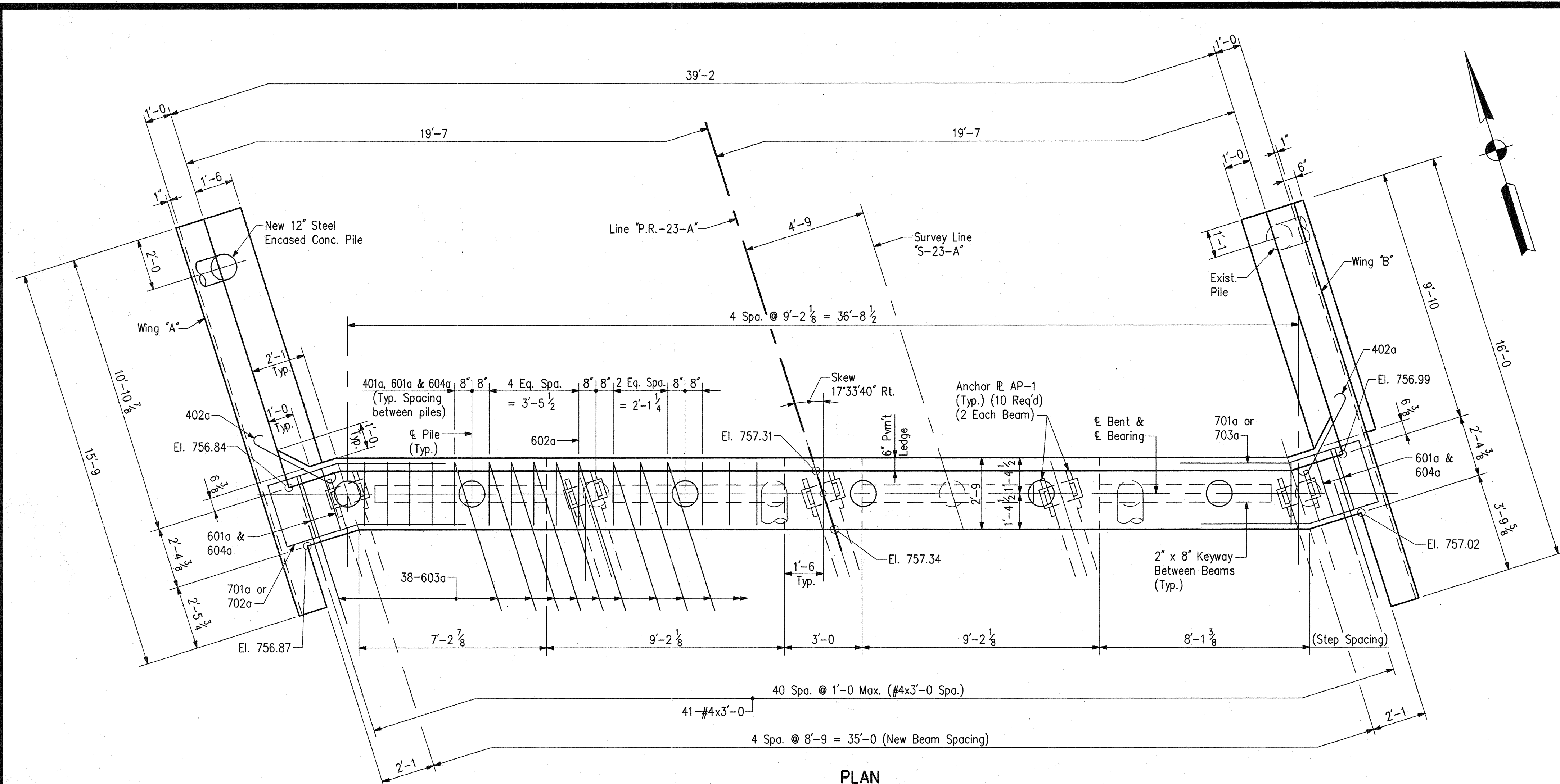
*Dennis R. Clark*

DRAWING: - D3 OF 17 SHEET: - 9 OF 67  
PROJECT: - NH/465-4(284)125 STATION: - x  
BRIDGE CONTRACT NO. B-21773  
BRIDGE FILE: - I-465-127-5275 C

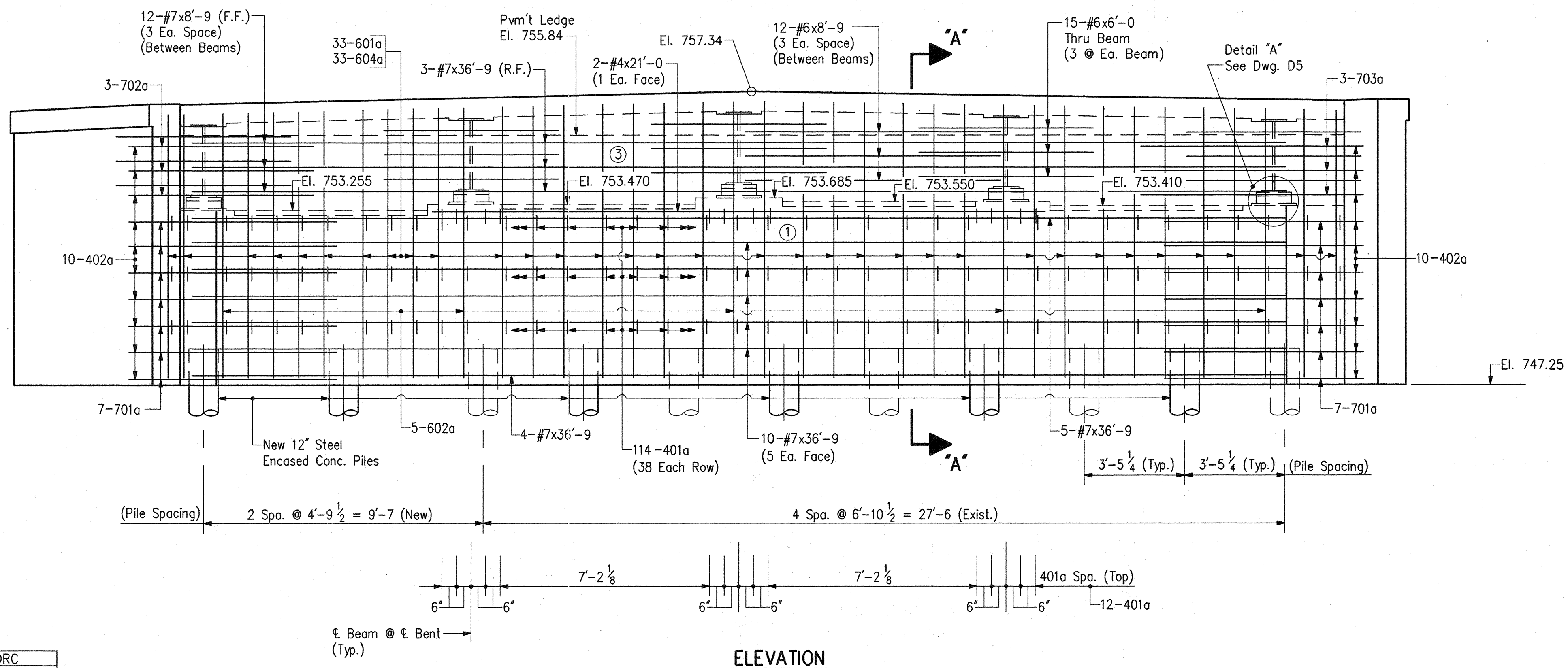


DESIGNED: DPJ	C.K'D. DRC
DRAWN: PCR	C.K'D. DRC
TRACED:	C.K'D.

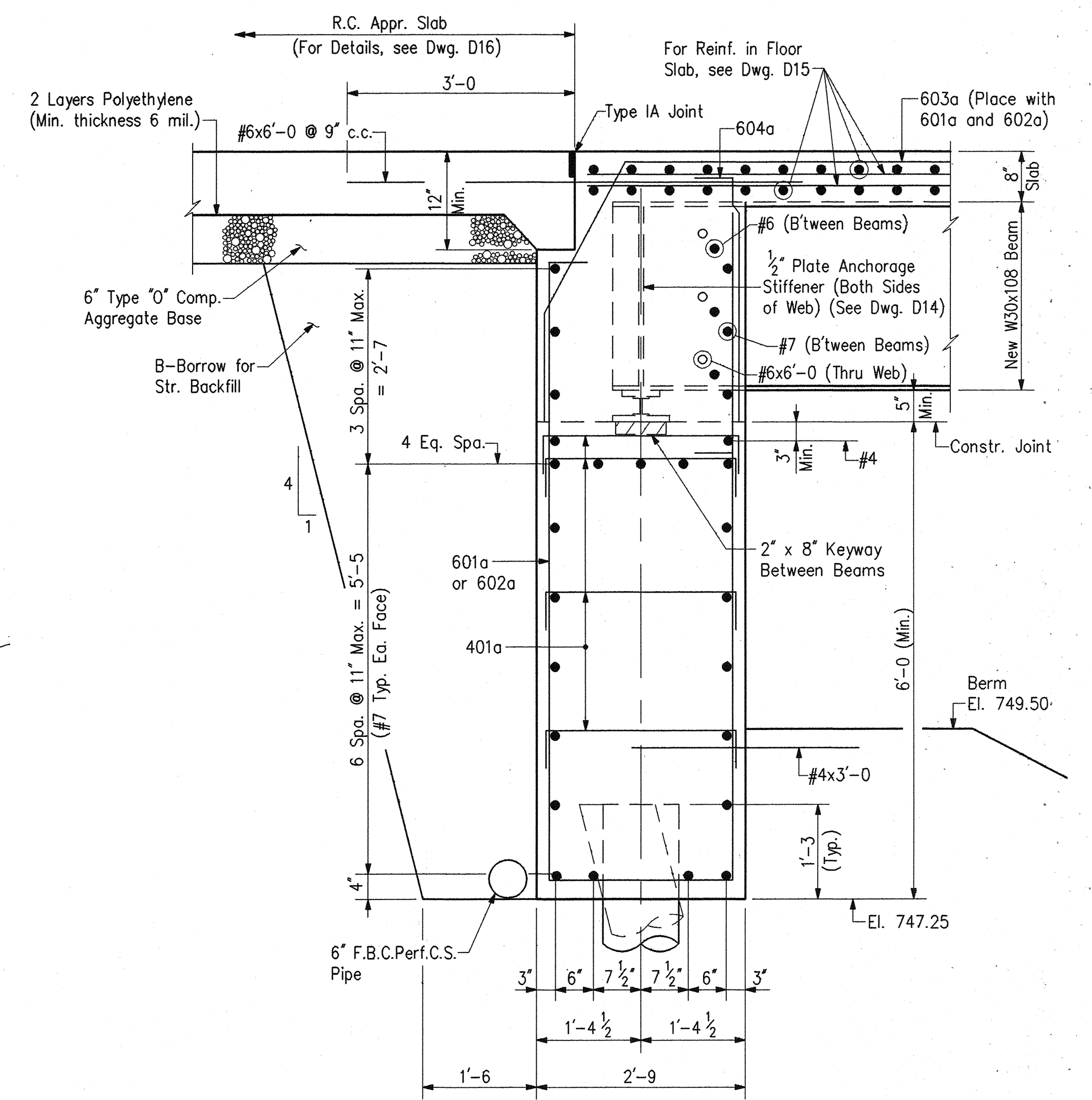




**PLAN**



**ELEVATION**



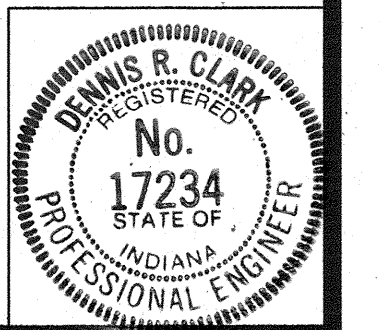
**SECTION "A-A"**

Scale: 3/4" = 1'-0"

- NOTES:**
- For Reinforcing Bar Notes and Bar Bending details, see Bridge Std. C1.
  - For wingwall details and Bar Bending Diagrams, see Dwg. D5.
  - For Bill of Materials, see Dwg. D7.
  - For bridge floor details, See Dwg. D15.
  - For bearing details, see Dwg. D5.
  - For General Notes, see Dwg. D2.
  - For Pour Diagram, see Dwg. D15.
  - (X) Indicates Pour Number

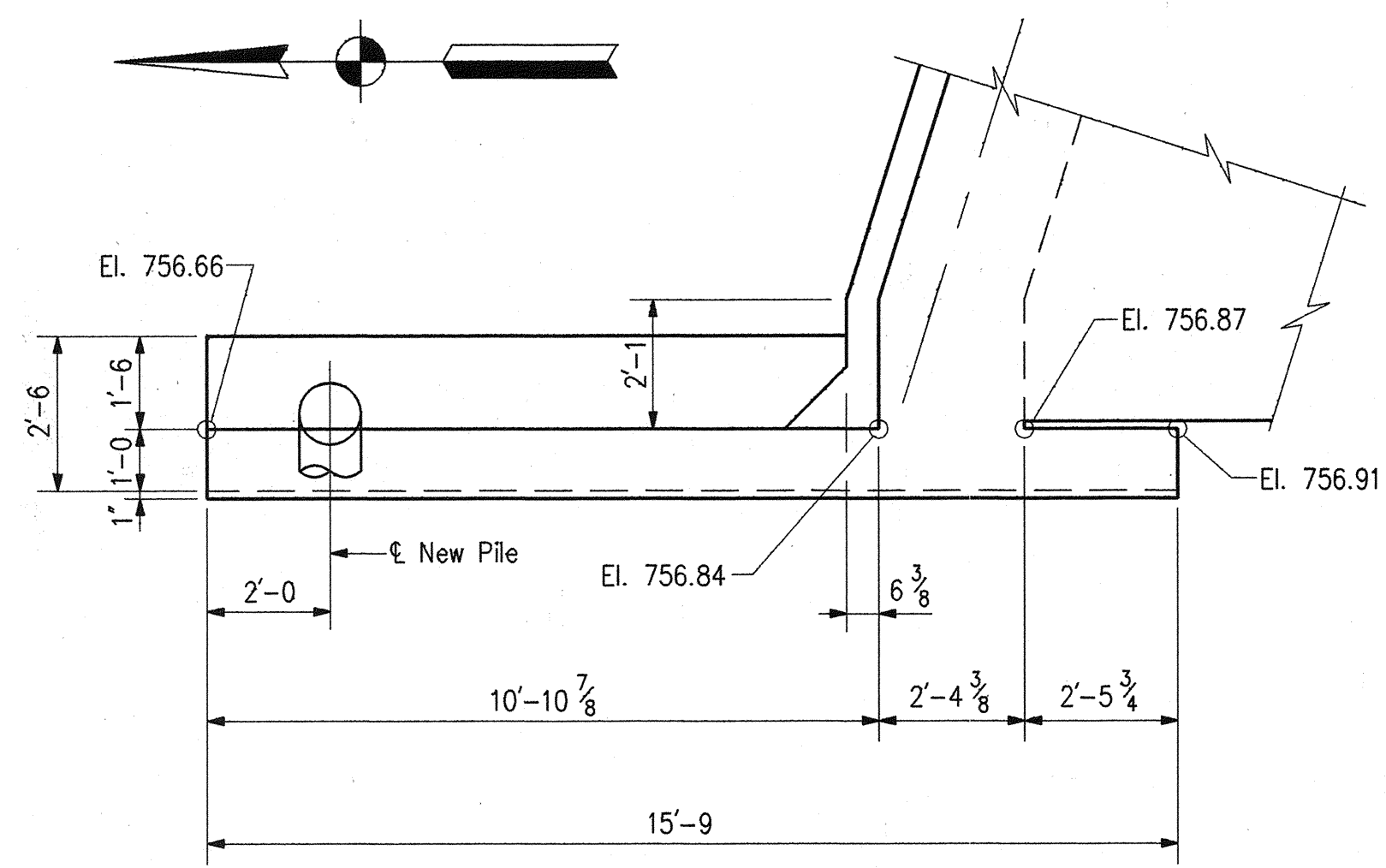
**BENT NO. 1 DETAILS**  
**INDIANA DEPARTMENT OF TRANSPORTATION**  
**MARION COUNTY**

SCALE: - 3/8" = 1'-0" Unless Otherwise Noted  
 DATE: - December 7, 1994  
*Dennis L. Clark*  
 DRAWING: D4 OF 17 SHEET: 10 OF 67  
 PROJECT: - NH/465-4(284)125 STATION: - x  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-5275/C

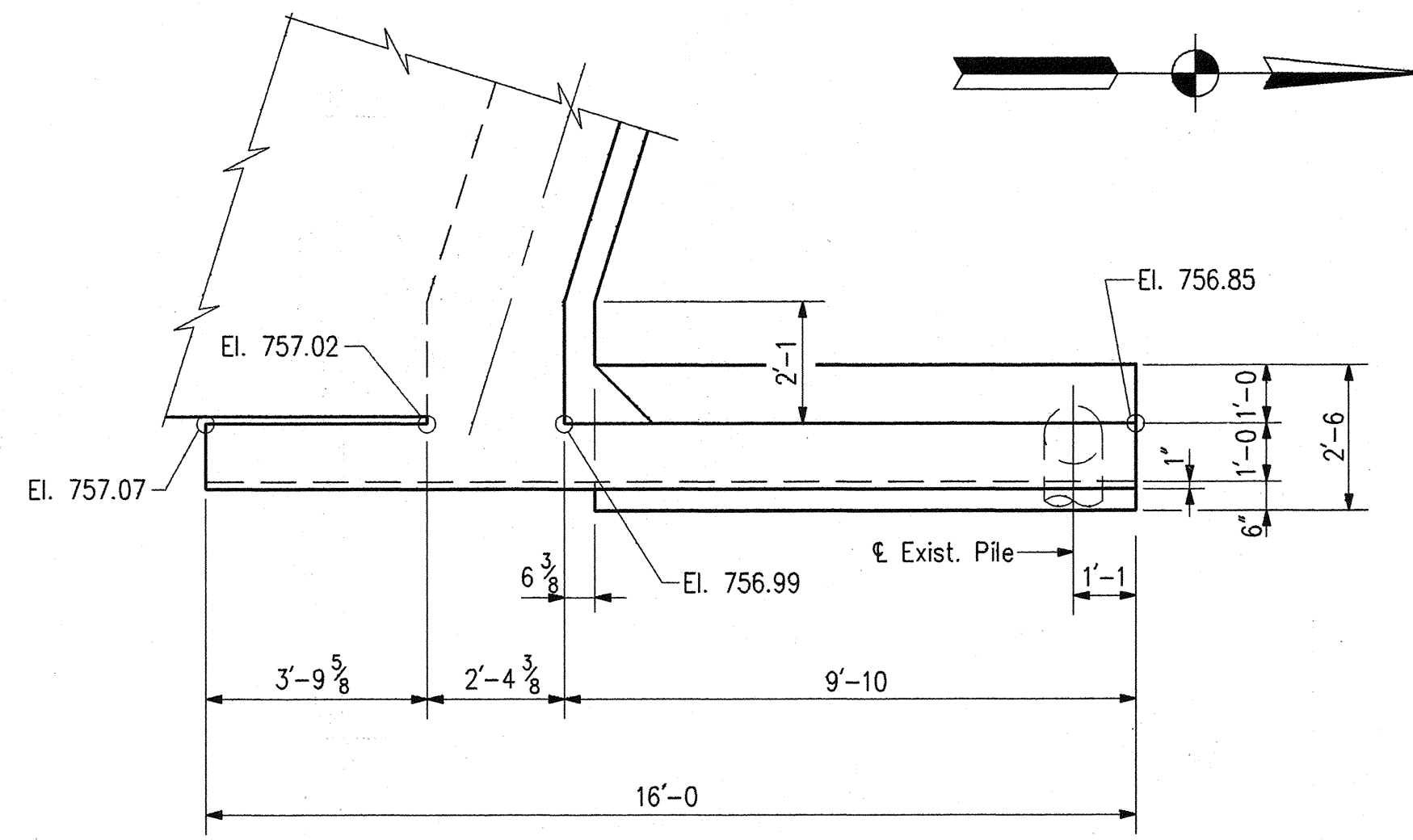


DESIGNED: DPJ C.K'D. DRC  
 DRAWN: PCR C.K'D. DRC  
 TRACED: C.K'D.

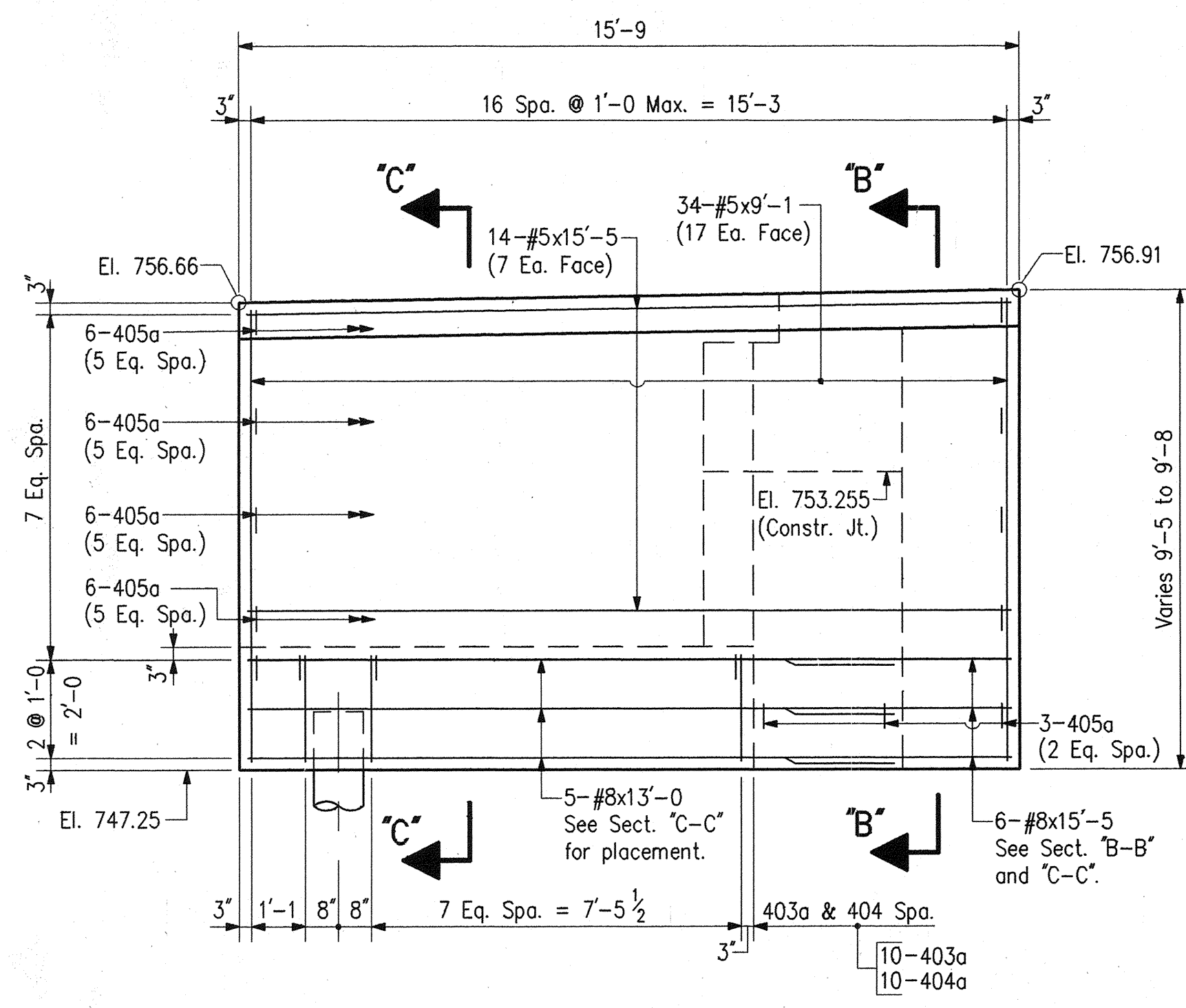




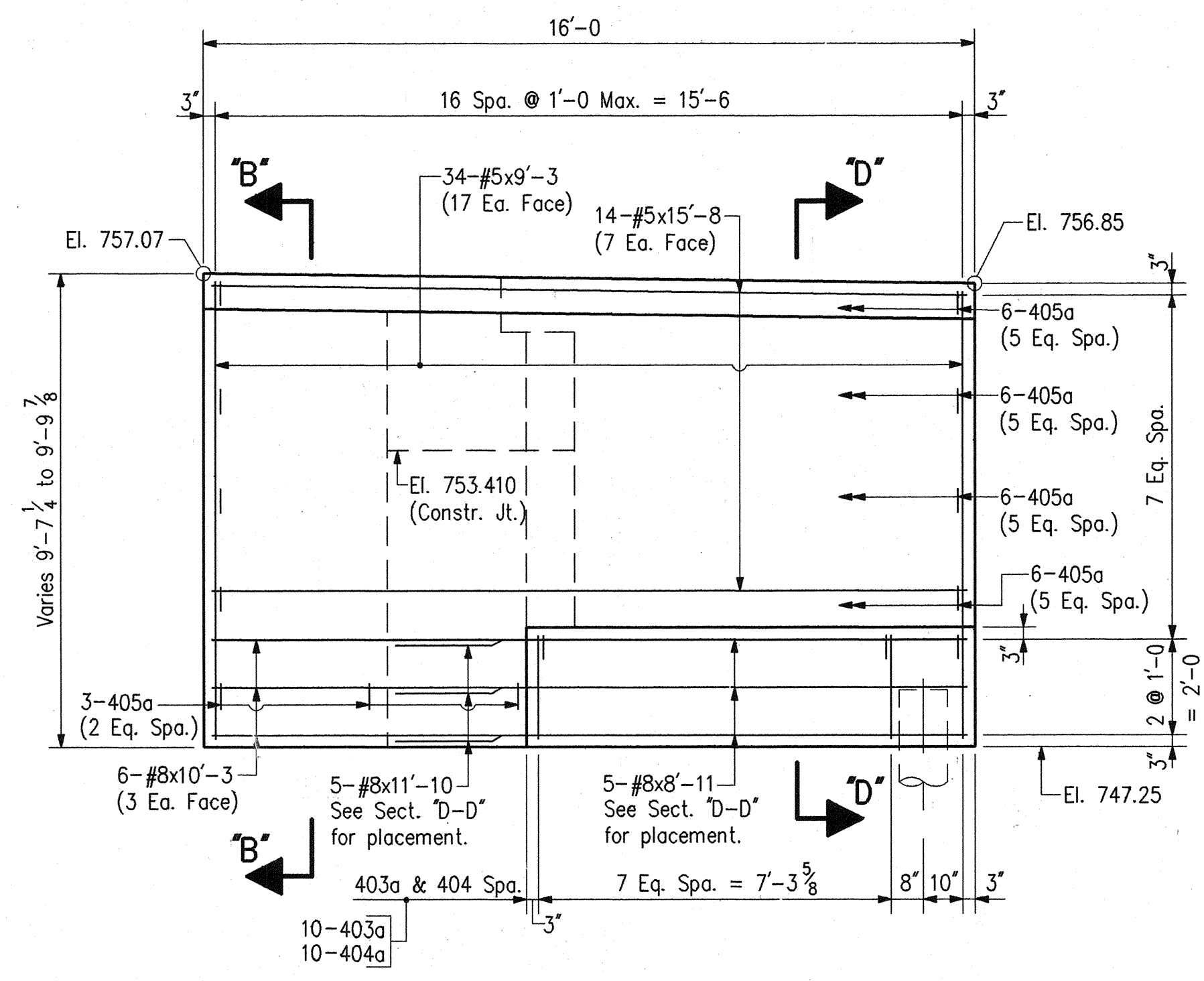
PLAN - WING "A"



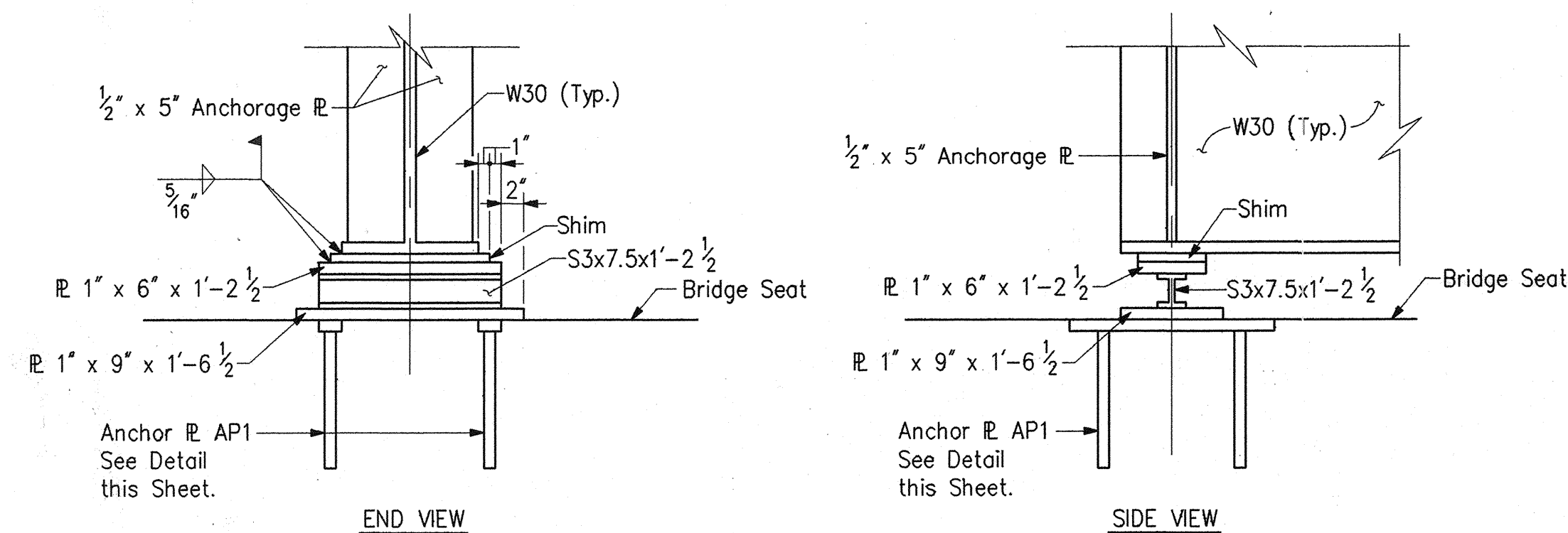
PLAN - WING "B"



ELEVATION - WING "A"

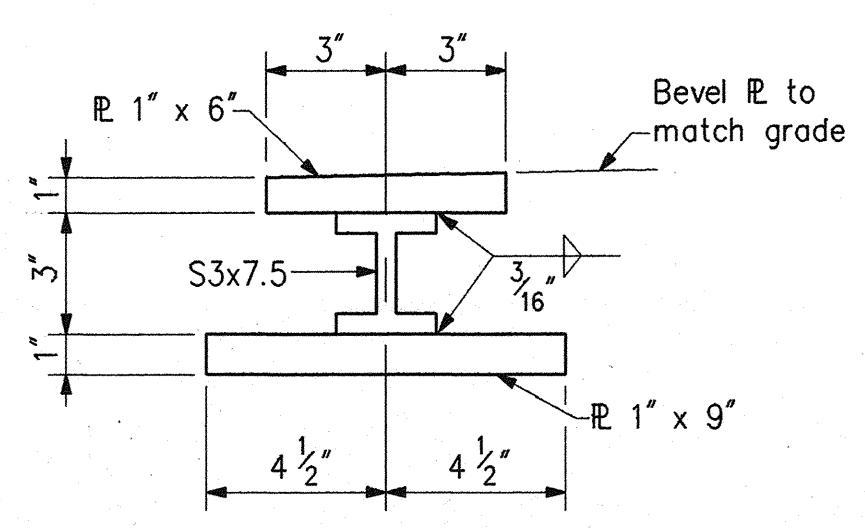


ELEVATION - WING "B"



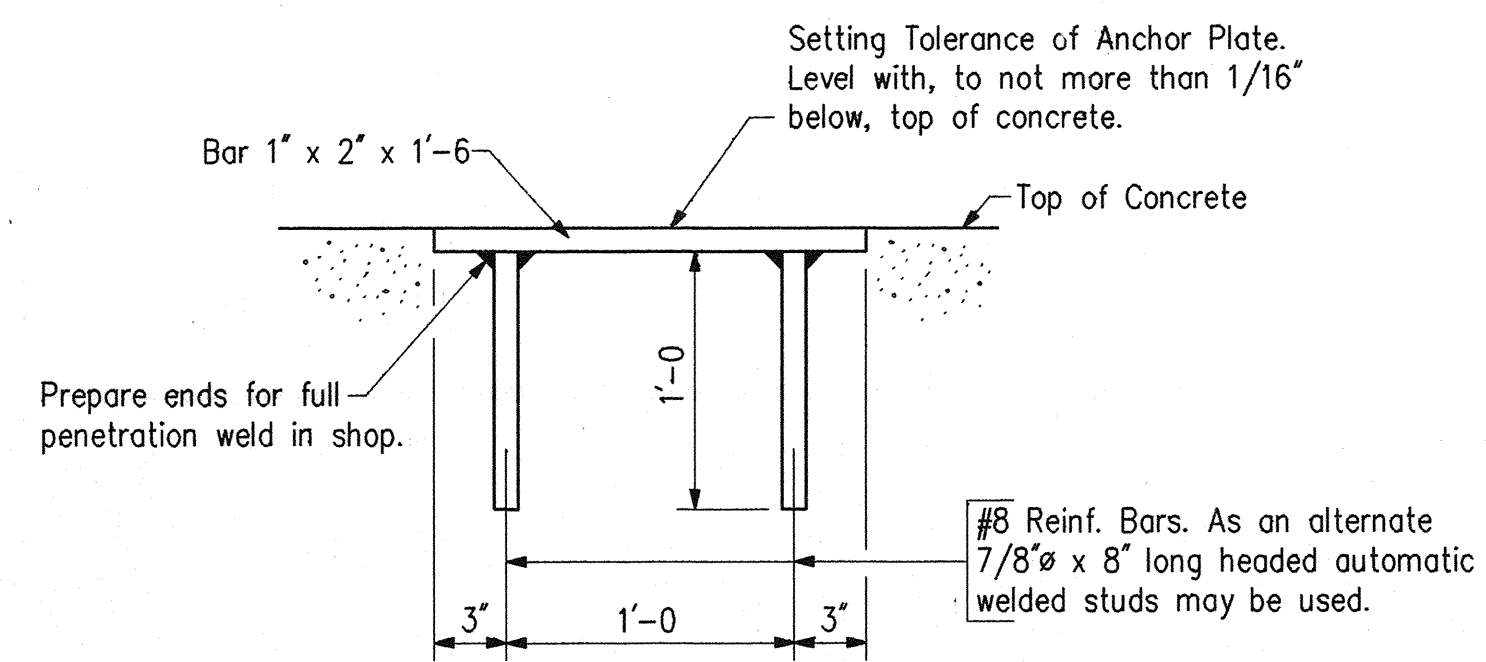
DETAIL "A"

Scale: 1" = 1'-0"



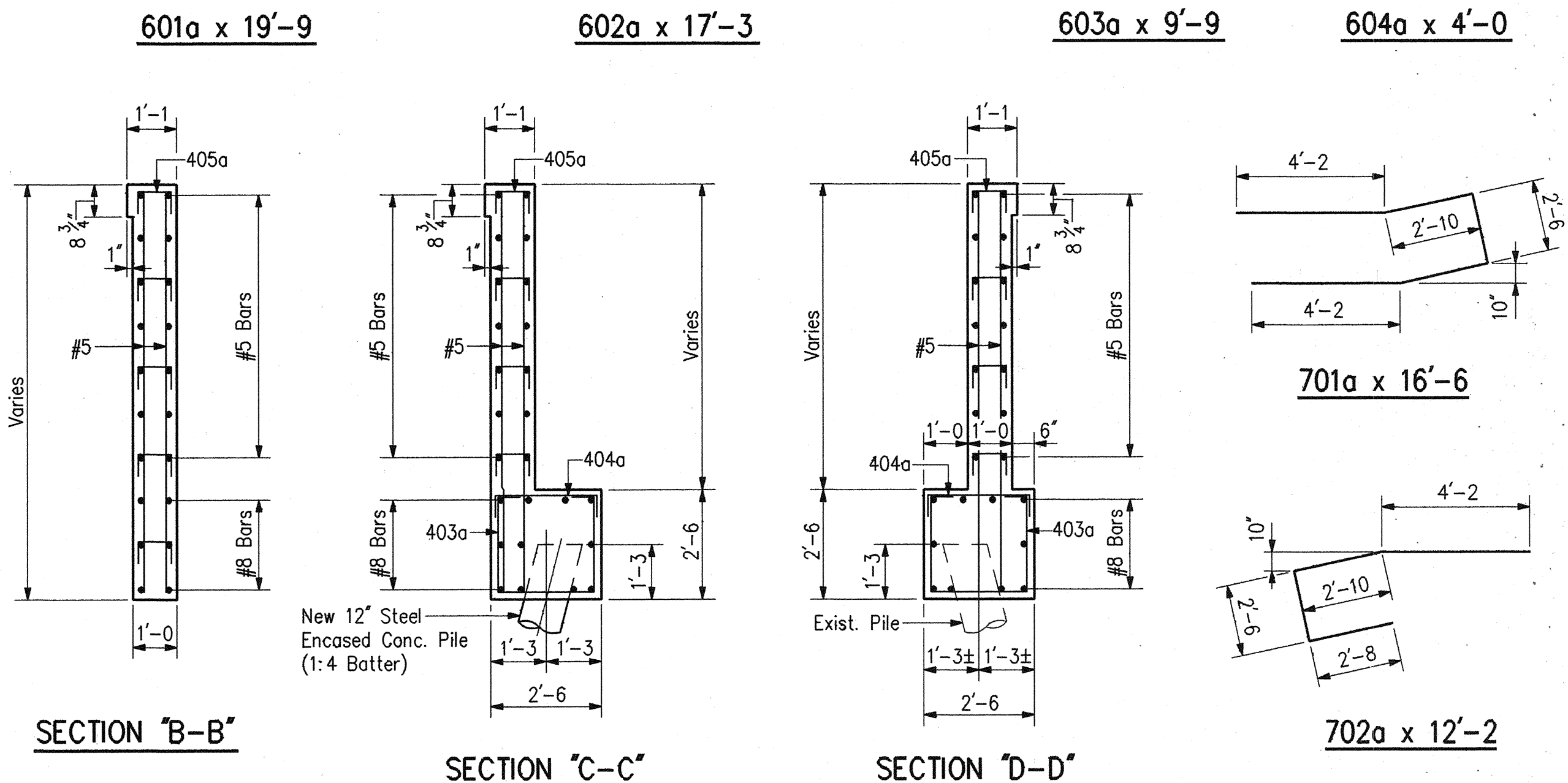
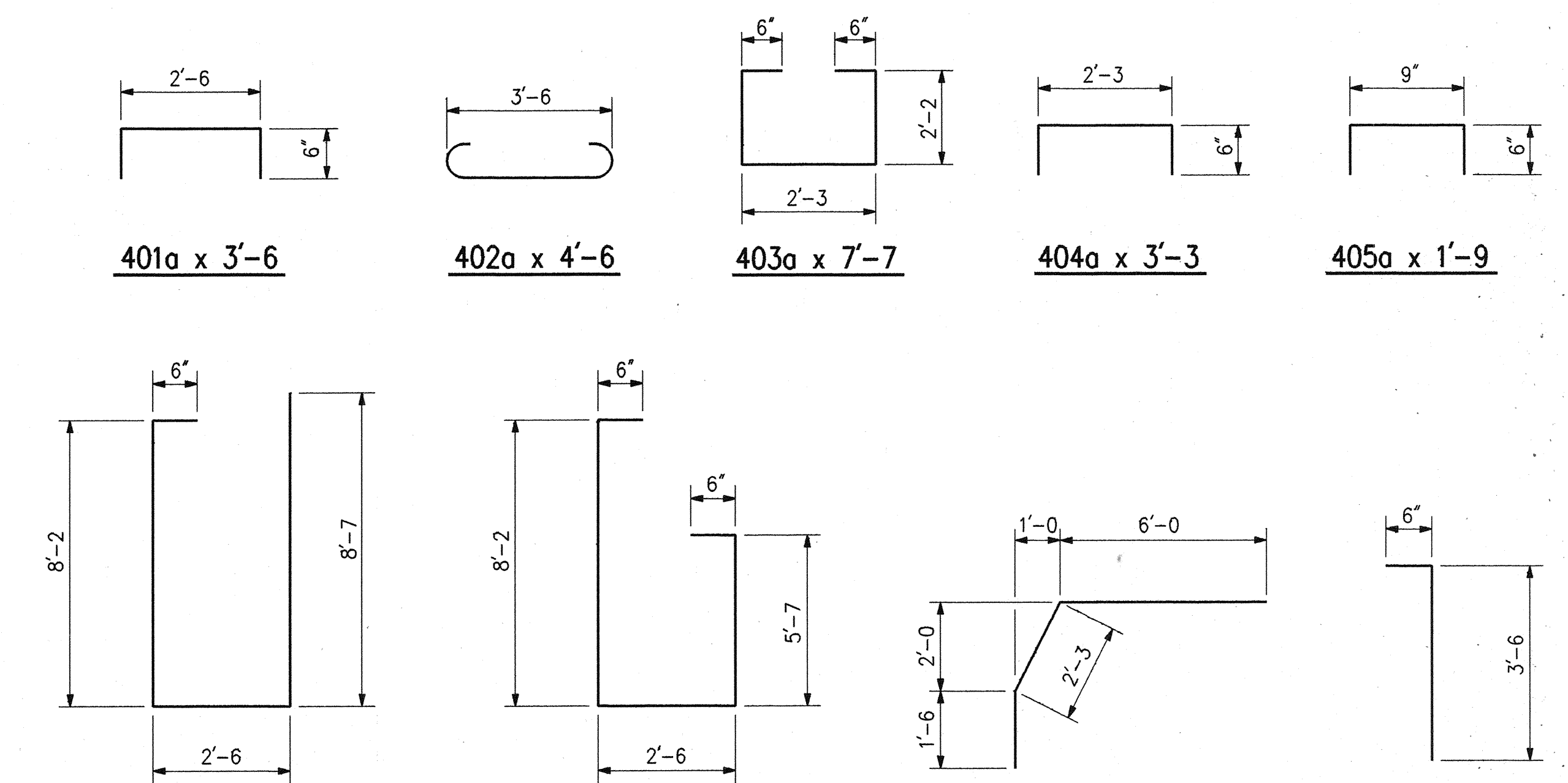
BEARING ASSEMBLY

No Scale



ANCHOR PLATE MK-AP1 DETAILS

No Scale



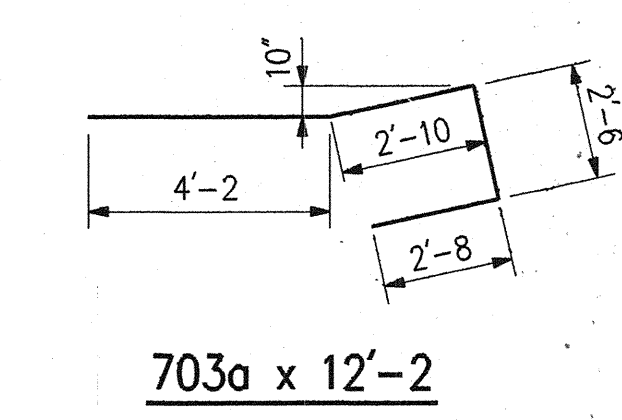
SECTION "B-B"

SECTION "C-C"

SECTION "D-D"

NOTES:

- For Reinforcing Bar Notes and Bar Bending details, see Bridge Std. C1.
- For Bill of Materials, see Dwg. D7.
- For bridge floor details, See Dwg. D15.
- For General Notes, see Dwg. D2.



BENT NO. 1 DETAILS  
 INDIANA DEPARTMENT OF TRANSPORTATION  
 MARION COUNTY

SCALE: - 3/8" = 1'-0" Unless Otherwise Noted  
 DATE: - December 7, 1994

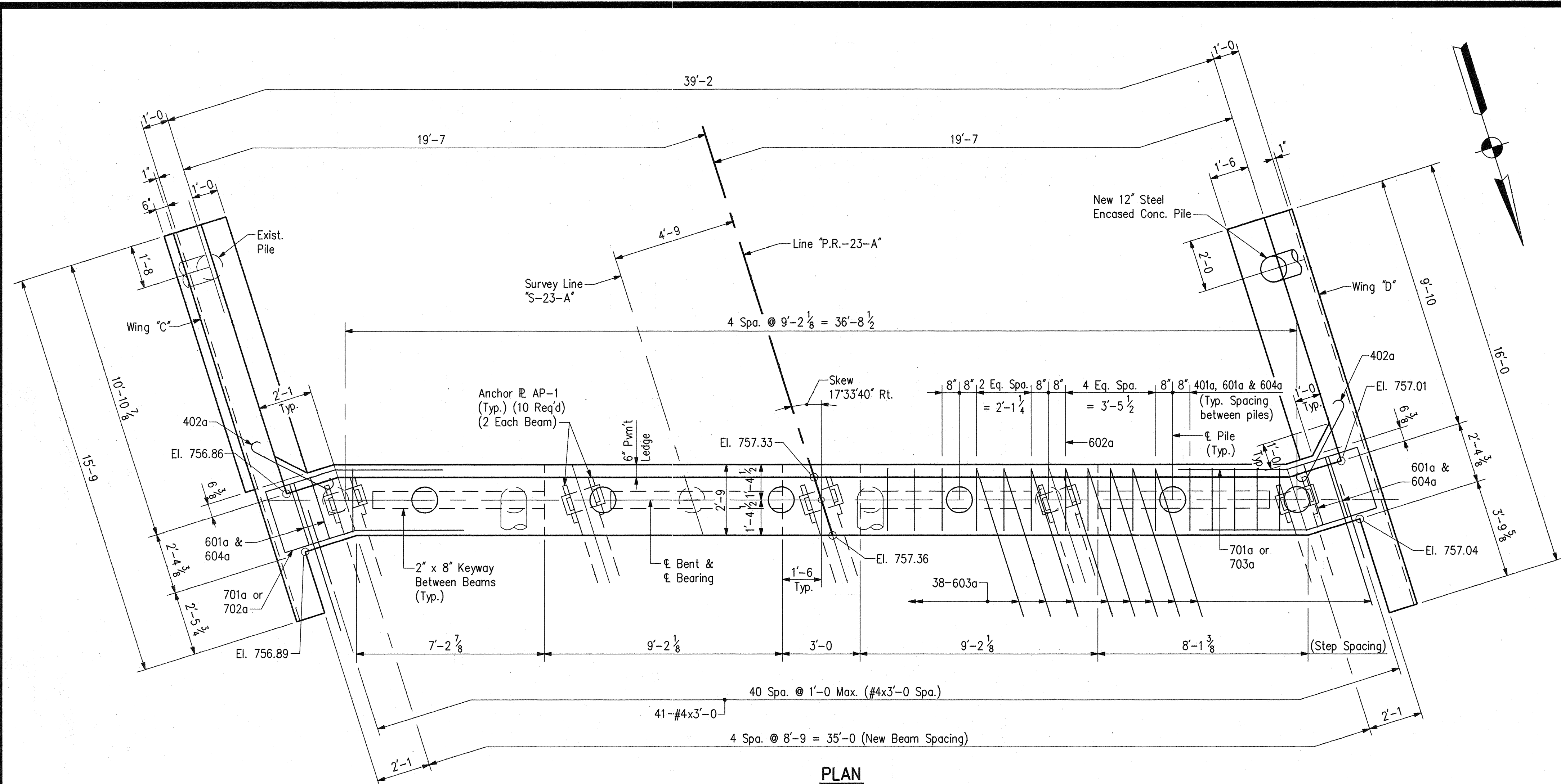
*Dennis R. Clark*

DRAWING: D5 OF 17 SHEET: 11 OF 67  
 PROJECT: - NH/465-4(284)125 STATION: - x  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-5275/C

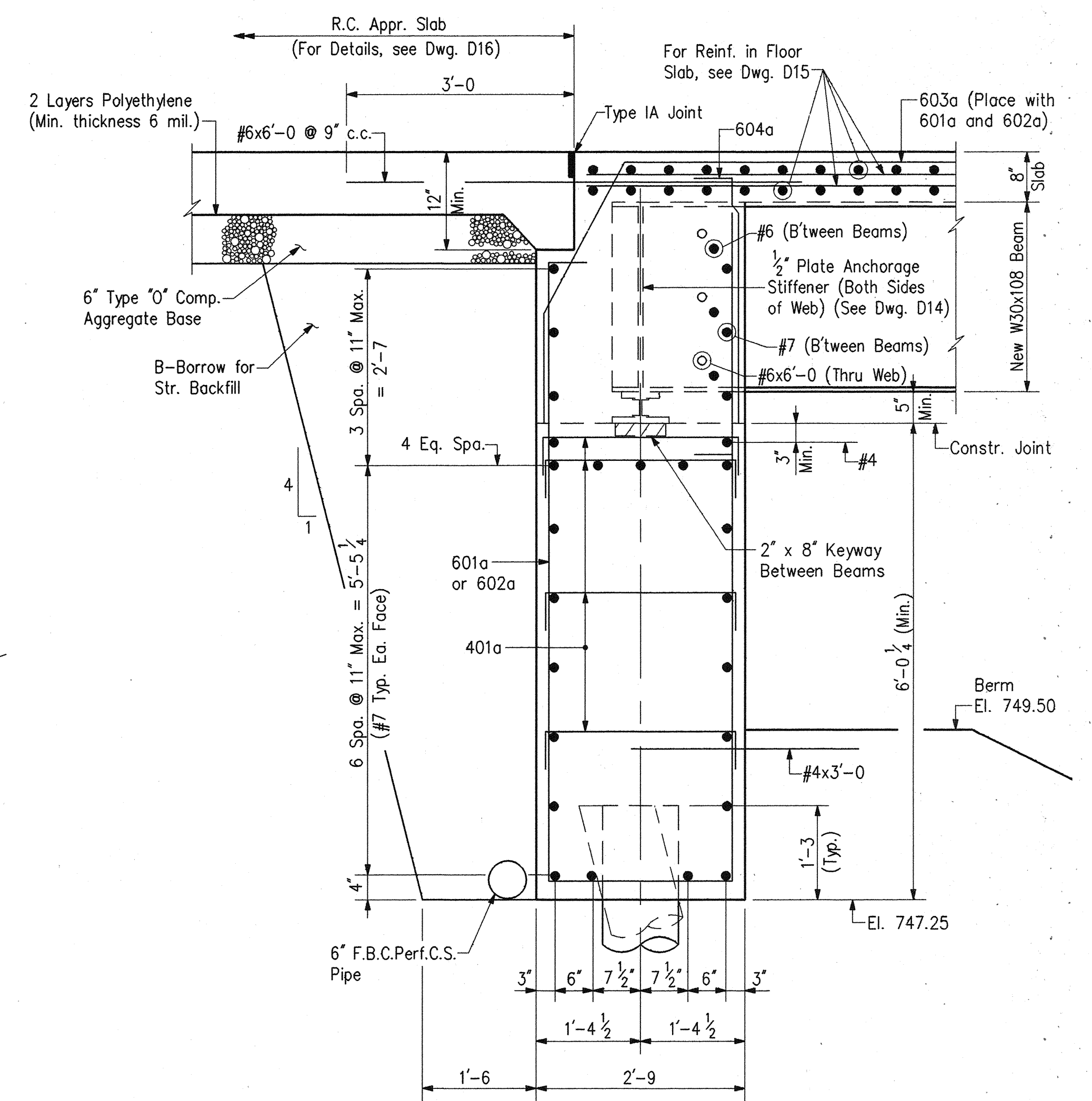


DESIGNED:	DPJ	C'K'D	DRC
DRAWN:	PCR	C'K'D	DRC
TRACED:		C'K'D	



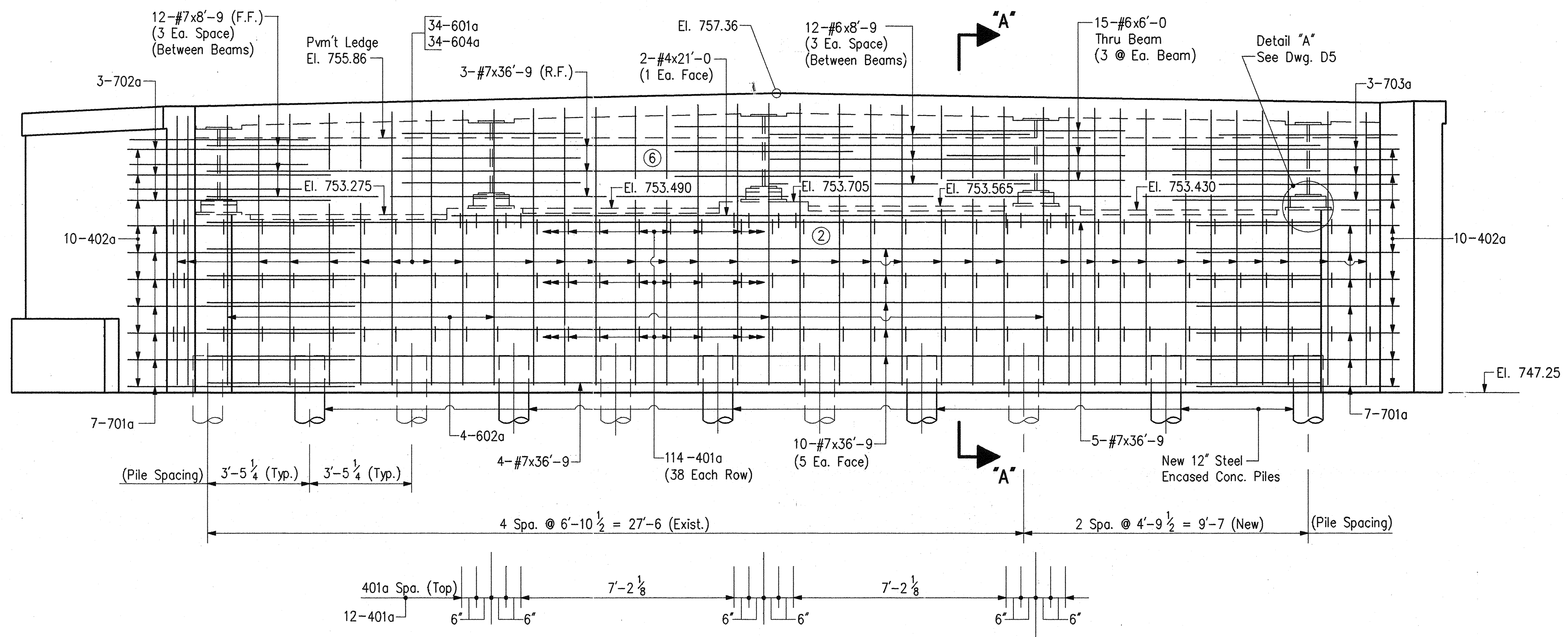


PLAN



SECTION "A-A"

Scale: 3/4" = 1'-0"



ELEVATION

- NOTES:**
- For Reinforcing Bar Notes and Bar Bending details, see Bridge Std. C1.
  - For wingwall details, see Dwg. D7.
  - For Bill of Materials, see Dwg. D7.
  - For bridge floor details, See Dwg. D15.
  - For bearing details and Bar Bending Diagrams, see Dwg. D5.
  - For General Notes, see Dwg. D2.
  - For Pour Diagram, see Dwg. D15.
  - ⊗ Indicates Pour Number

**BENT NO. 5 DETAILS**  
**INDIANA DEPARTMENT OF TRANSPORTATION**  
**MARION COUNTY**

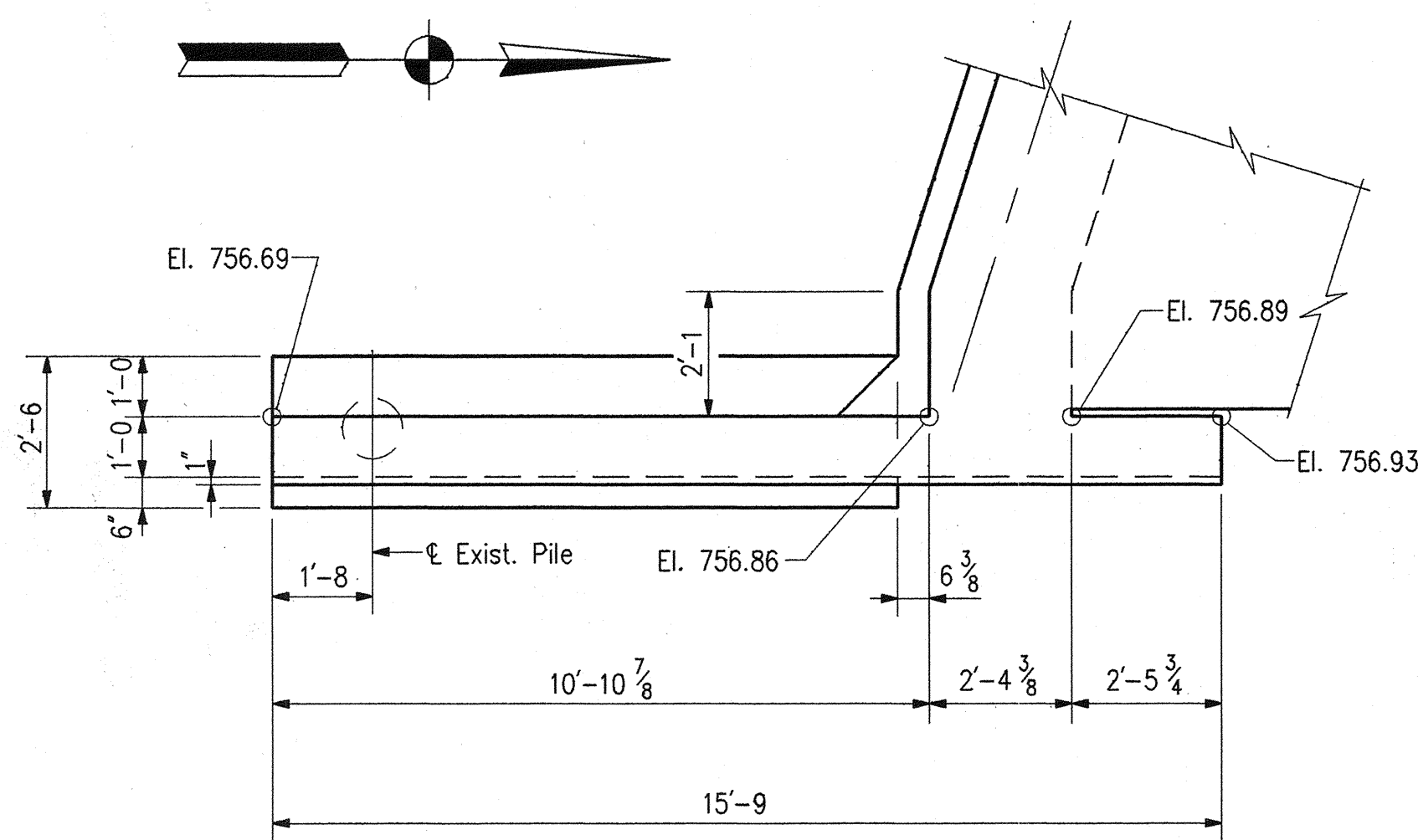
SCALE: - 3/8" = 1'-0" Unless Otherwise Noted  
 DATE: - December 7, 1994

DRAWING: - D6 OF 17 SHEET: - 12 OF 67  
 PROJECT: - NH/465-4(284)125 STATION: - x  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-5275/C

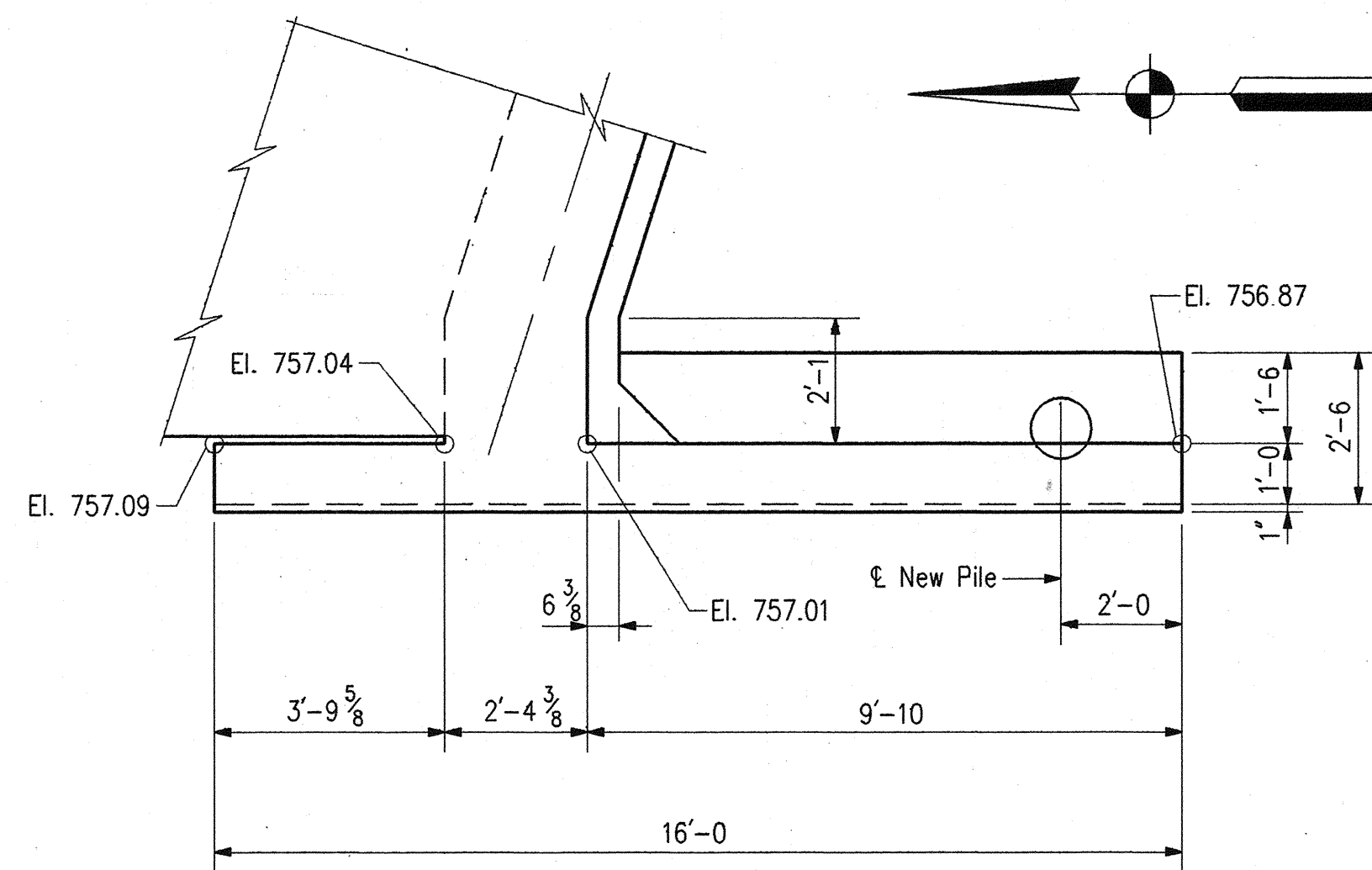


DESIGNED:	DPJ	C'K'D	DRC
DRAWN:	PCR	C'K'D	DRC
TRACED:		C'K'D	

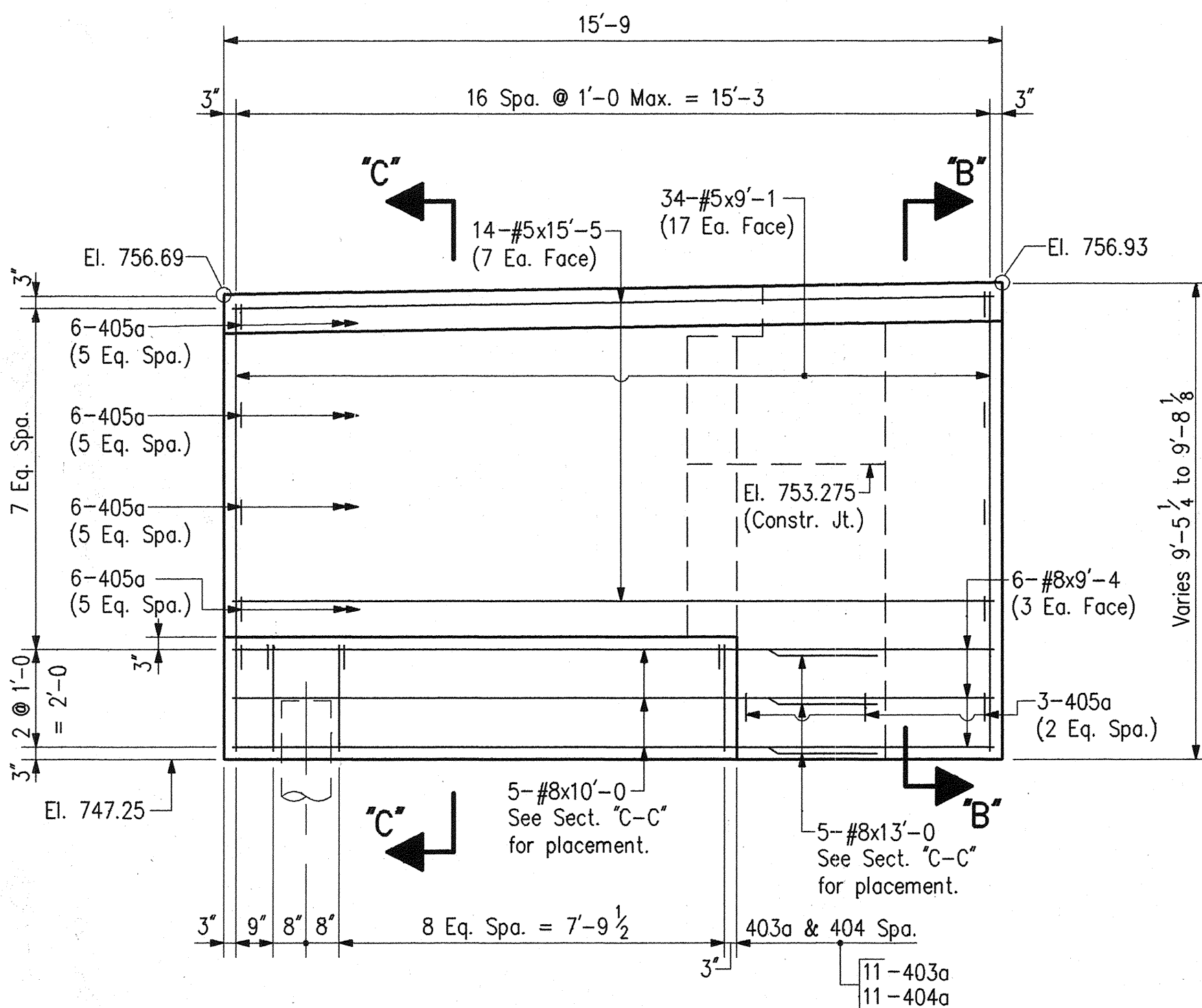




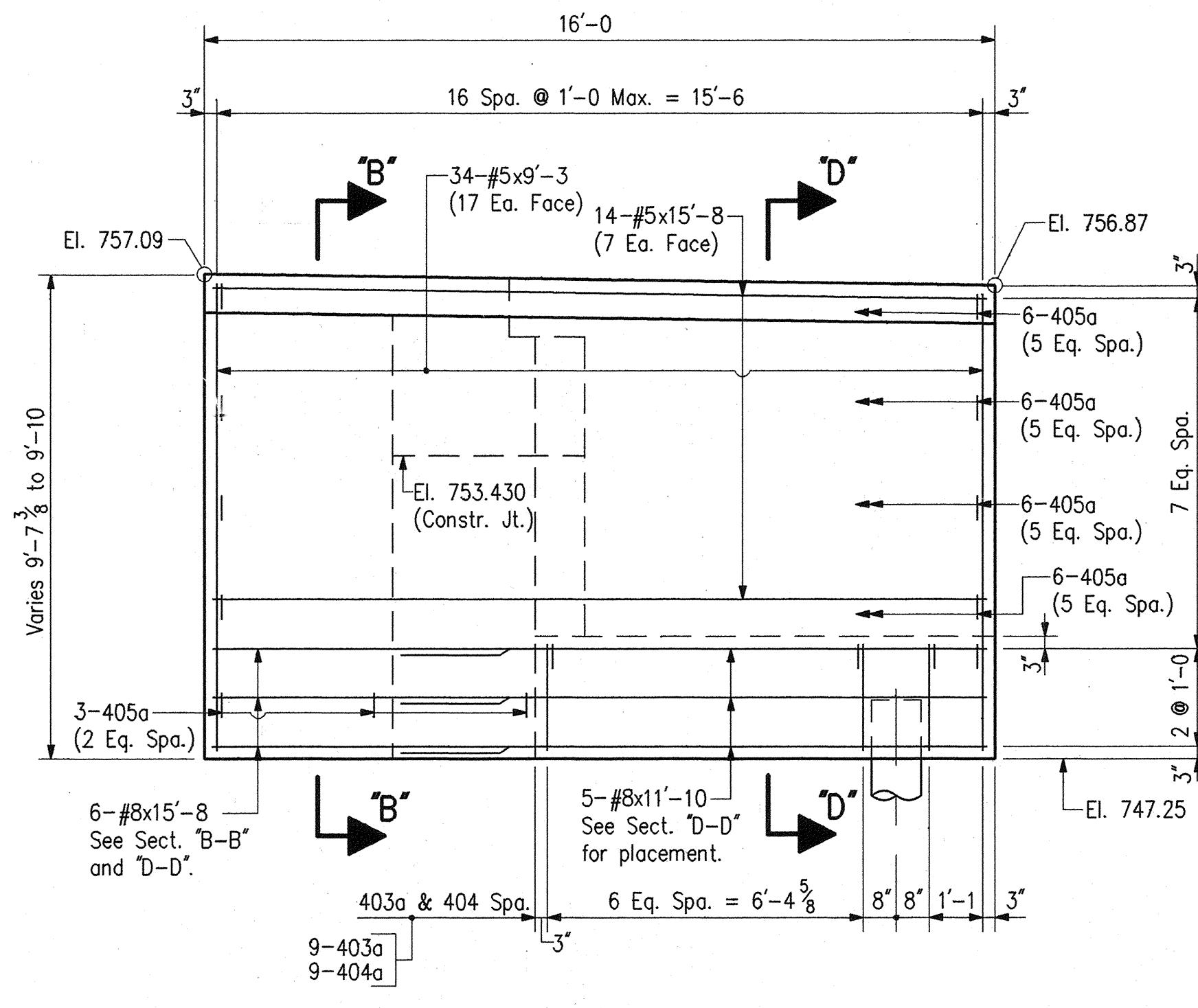
PLAN - WING "C"



PLAN - WING "D"



ELEVATION - WING "C"



ELEVATION - WING "D"

BENT NO. 1  
BILL OF MATERIALS

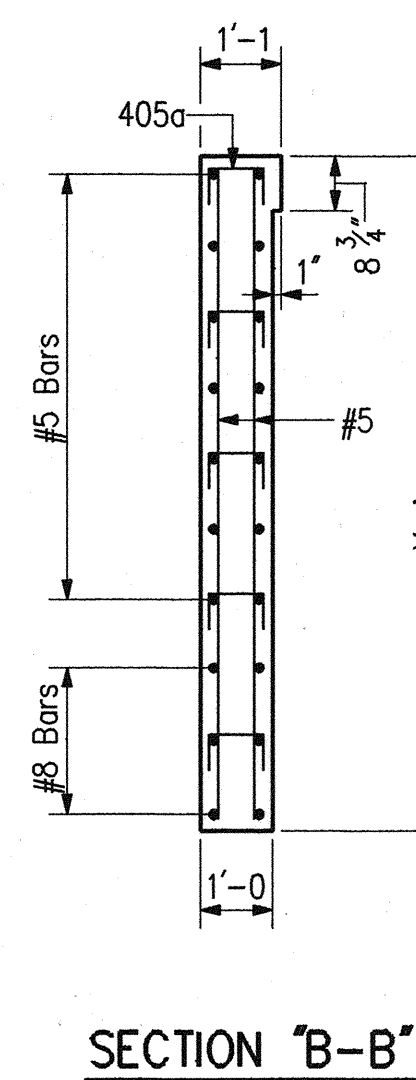
REINFORCING STEEL			
SIZE & MARK	No. OF BARS	LENGTH	WEIGHT (LBS.)
EPOXY COATED REINFORCING			
#8	6	15'-5"	
#8	5	13'-0"	
#8	5	11'-10"	
#8	6	10'-3"	
#8	5	8'-11"	
TOTAL #8 BARS			862
703a	3	12'-2"	
702a	3	12'-2"	
701a	14	16'-6"	
#7	22	36'-9"	
#7	12	8'-9"	
TOTAL #7 BARS			2489
604a	33	4'-0"	
603a	38	9'-9"	
602a	5	17'-3"	
601a	33	19'-9"	
#6	12	8'-9"	
#6	15	6'-0"	
TOTAL #6 BARS			2156
#5	14	15'-8"	
#5	14	15'-5"	
#5	34	9'-3"	
#5	34	9'-1"	
TOTAL #5 BARS			1104
405a	54	1'-9"	
404a	20	3'-3"	
403a	20	7'-7"	
402a	20	4'-6"	
401a	126	3'-6"	
#4	2	21'-0"	
#4	41	3'-0"	
TOTAL #4 BARS			673
TOTAL EPOXY REINF.			7284
MISCELLANEOUS			
Anchor Plate AP1		10 Ea.	
B-Borrow for Structure Backfill		33 Cys.	
6" F.B.C.Perf.C.S. Pipe		55 Lft.	
7-12" x 0.184" Steel Encased Concrete Piles x 35'		245 Lft.	

BENT NO. 5  
BILL OF MATERIALS

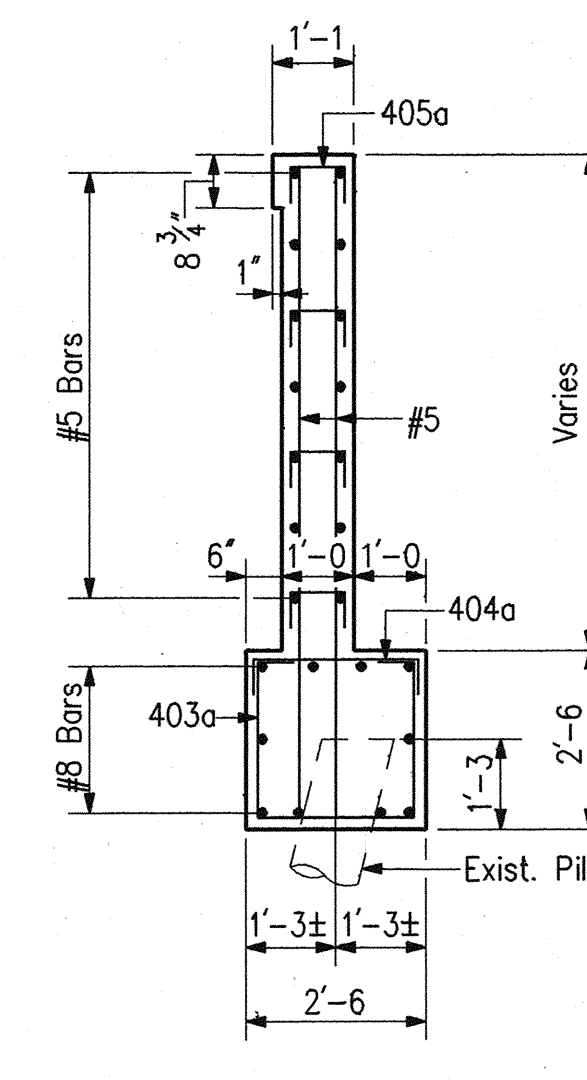
REINFORCING STEEL			
SIZE & MARK	No. OF BARS	LENGTH	WEIGHT (LBS.)
EPOXY COATED REINFORCING			
#8	6	15'-8"	
#8	5	13'-0"	
#8	5	11'-10"	
#8	5	10'-0"	
#8	6	9'-4"	
TOTAL #8 BARS			866
703a	3	12'-2"	
702a	3	12'-2"	
701a	14	16'-6"	
#7	22	36'-9"	
#7	12	8'-9"	
TOTAL #7 BARS			2489
604a	34	4'-0"	
603a	38	9'-9"	
602a	4	17'-3"	
601a	34	19'-9"	
#6	12	8'-9"	
#6	15	6'-0"	
TOTAL #6 BARS			2166
#5	14	15'-8"	
#5	14	15'-5"	
#5	34	9'-3"	
#5	34	9'-1"	
TOTAL #5 BARS			1104
405a	54	1'-9"	
404a	20	3'-3"	
403a	20	7'-7"	
402a	20	4'-6"	
401a	126	3'-6"	
#4	2	21'-0"	
#4	41	3'-0"	
TOTAL #4 BARS			673
TOTAL EPOXY REINF.			7298
MISCELLANEOUS			
Anchor Plate AP1		10 Ea.	
B-Borrow for Structure Backfill		33 Cys.	
6" F.B.C.Perf.C.S. Pipe		58 Lft.	
7-12" x 0.184" Steel Encased Concrete Piles x 35'		245 Lft.	

FLOOR SLAB  
BILL OF MATERIALS

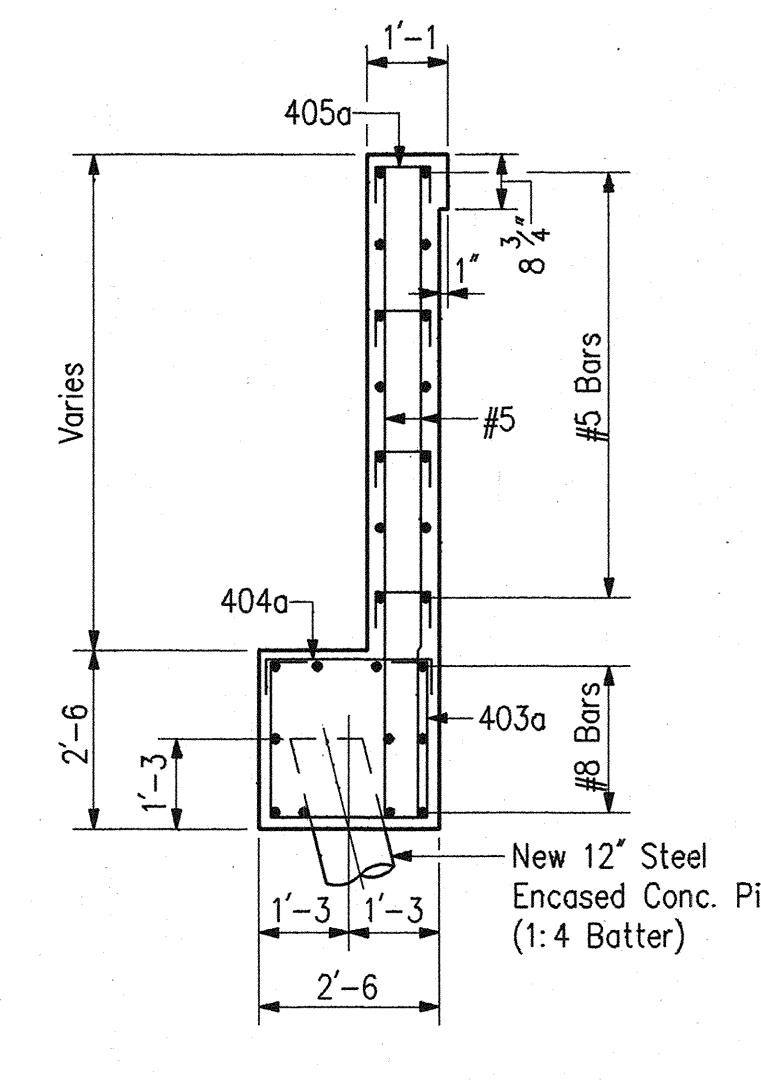
REINFORCING STEEL			
SIZE & MARK	No. OF BARS	LENGTH	WEIGHT (LBS.)
EPOXY COATED REINFORCING			
#6	39	35'-8"	
#6	78	32'-2"	
#6	104	6'-0"	
TOTAL #6 BARS			6795
#5	4	40'-0"	
#5	834	38'-7"	
#5	44	38'-6"	
TOTAL #5 BARS			35496
401a	440	2'-5"	
#4	636	38'-0"	
TOTAL #4 BARS			16855
TOTAL EPOXY REINF.			59146
CONCRETE			
CLASS "C" IN SUPERSTRUCTURE			
Pour No. 1		26.2 Cys.	
Wing "A"		7.0 Cys.	
Wing "B"		7.1 Cys.	
Pour No. 2		26.2 Cys.	
Wing "C"		7.1 Cys.	
Wing "D"		7.1 Cys.	
Pour No. 3		28.3 Cys.	
Pour No. 4		66.1 Cys.	
Pour No. 5		73.0 Cys.	
Pour No. 6		69.0 Cys.	
TOTAL CLASS "C" IN SUPERSTRUCTURE		317.1 Cys.	
MISCELLANEOUS			
Surface Seal		8943 Sft.	
Masonry Coating		1683 Sft.	



SECTION "B-B"



SECTION "C-C"



SECTION "D-D"

BENT NO. 5 DETAILS AND BILL OF MATERIALS

INDIANA DEPARTMENT OF TRANSPORTATION  
MARION COUNTY

SCALE: - 3/8" = 1'-0"

DATE: - December 7,

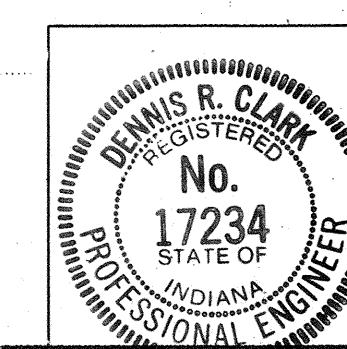
1994

NOTES:

- For Reinforcing Bar Notes and Bar Bending details, see Bridge Std. C1.
- For Bar Bending Diagrams, see Dwg. D5.
- For bridge floor details, See Dwg. D15.
- For General Notes, see Dwg. D2.

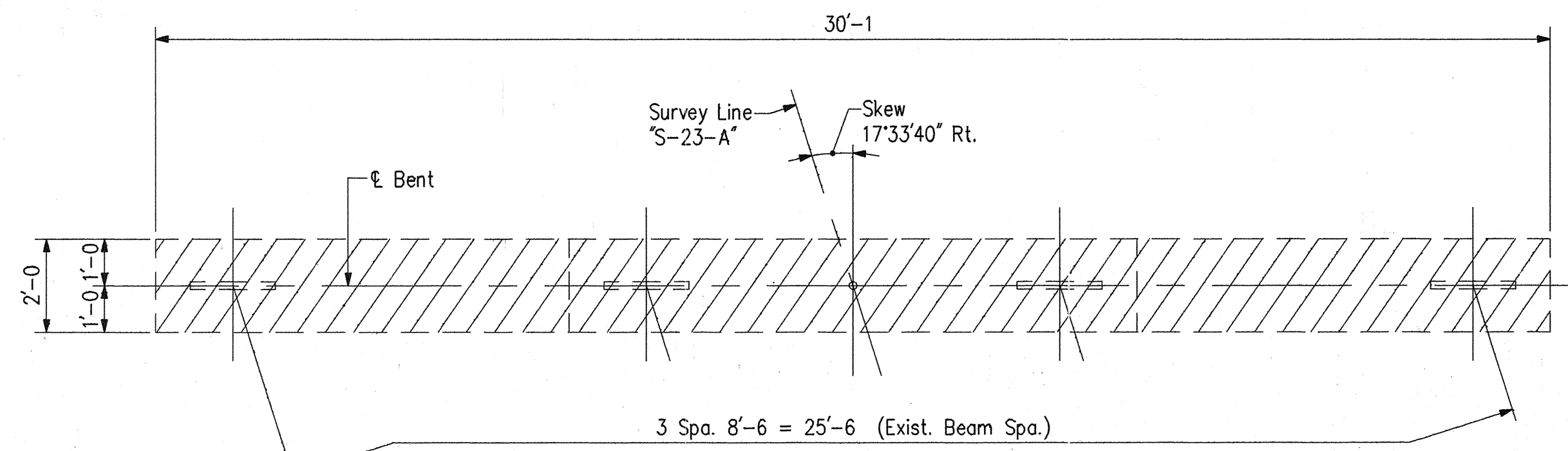
DRAWING: - D7 OF 17 SHEET: - 13 OF 67  
PROJECT: - NH/465-4(284)125 STATION: - x  
BRIDGE CONTRACT NO. B-21773  
BRIDGE FILE: - I-465-127-5275#C

*Dennis L. Clark*

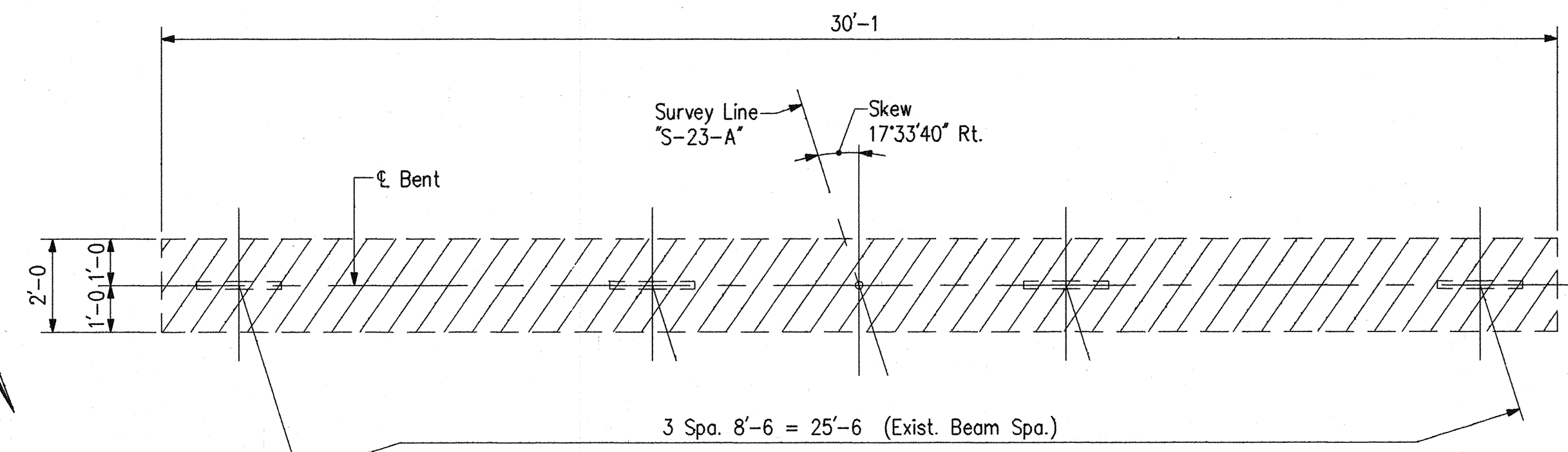


DESIGNED: DPJ C.K'D DRC  
DRAWN: PCR C.K'D DRC  
TRACED: C.K'D

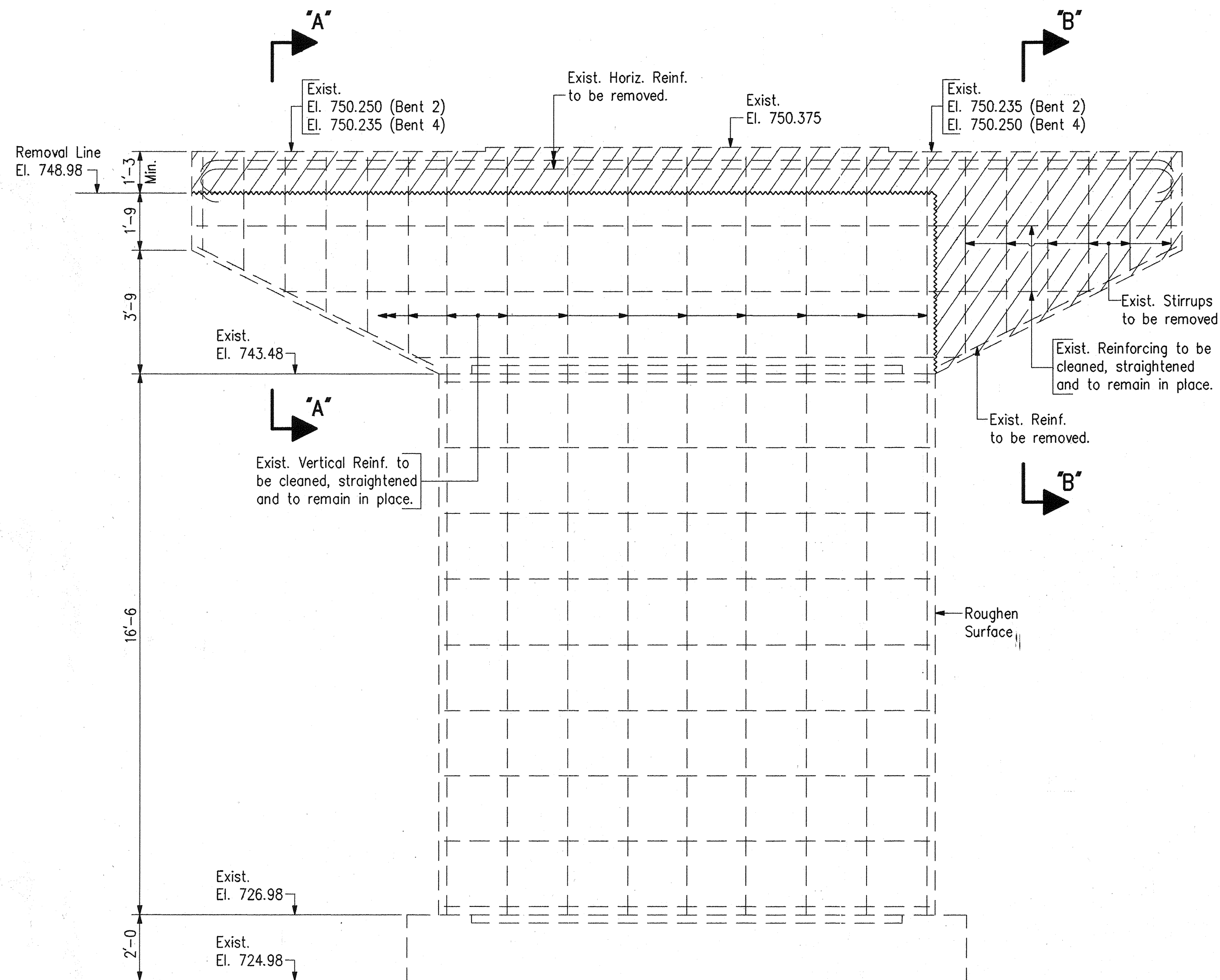




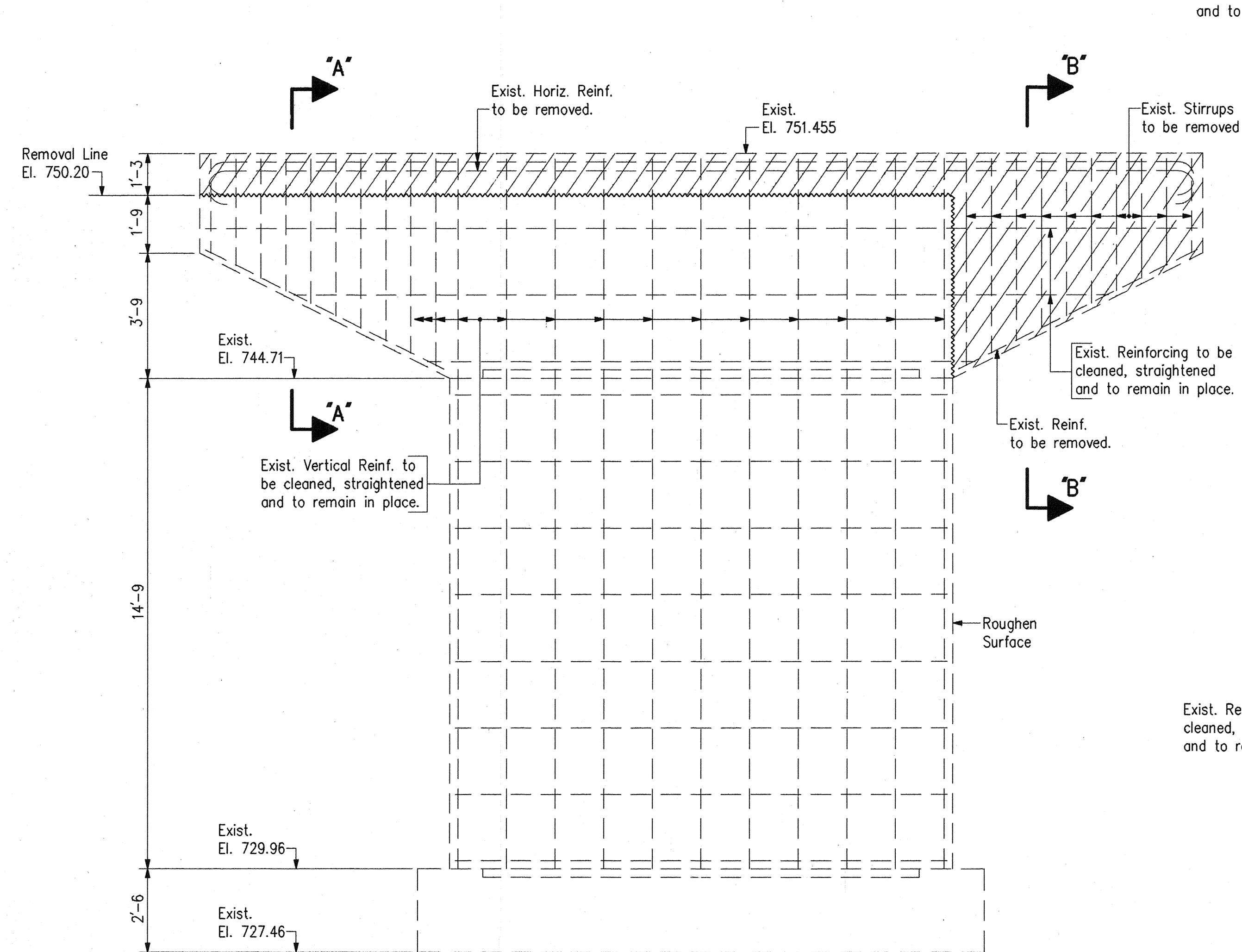
PLAN - BENT NO. 2 AND NO. 4



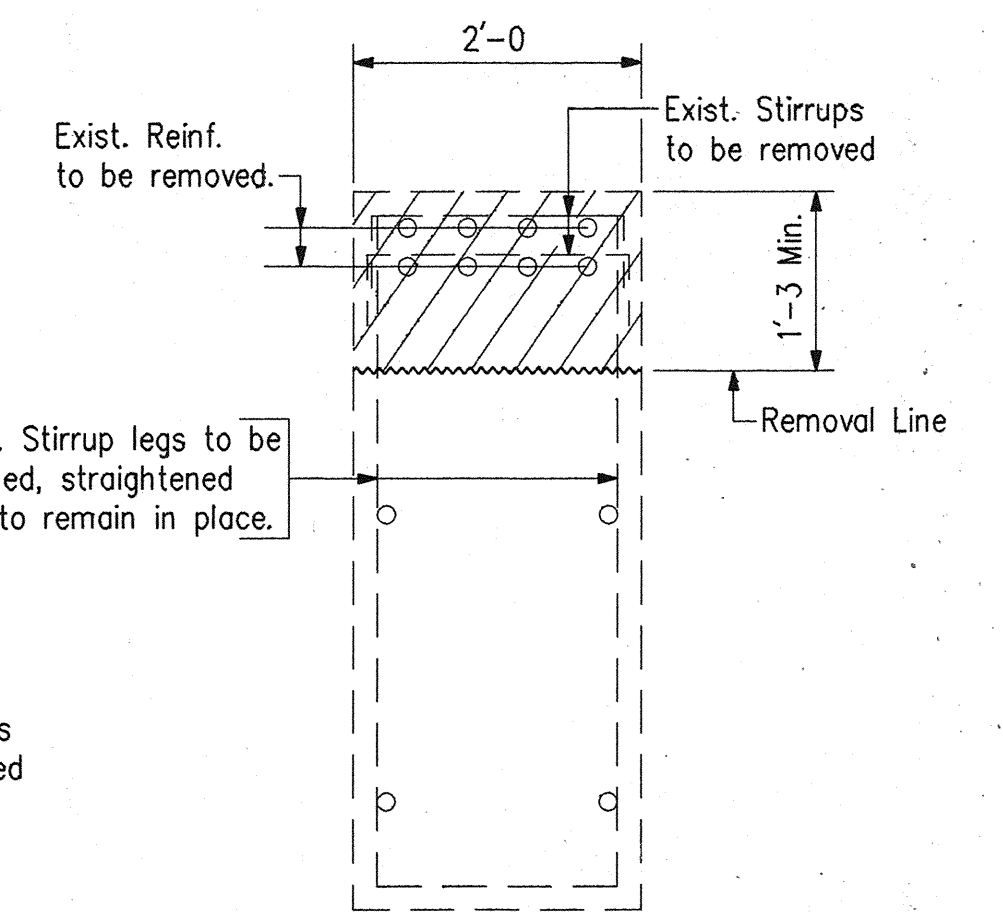
PLAN - BENT NO. 3



ELEVATION - BENT NO. 2 AND NO. 4

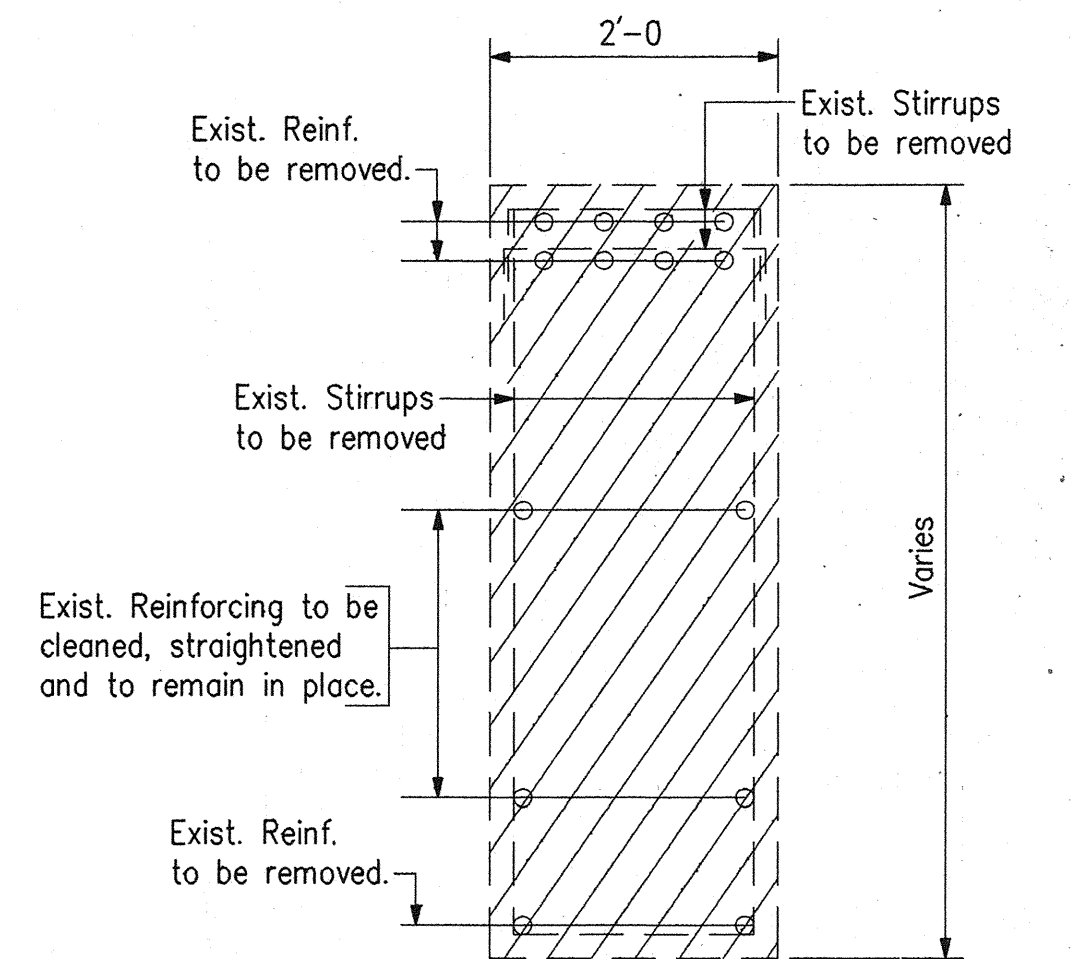


ELEVATION - BENT NO. 3



SECTION "A-A"

Scale: 3/4" = 1'-0"



SECTION "B-B"

Scale: 3/4" = 1'-0"

NOTES:

- For Reconstruction Details, see Dwg. D9-D11.
- For General Notes, see Dwg. D2.
- ▨ Indicates Limits of Concrete Removal

DESIGNED:	DPJ	C'K'D	DRC
DRAWN:	PCR	C'K'D	DRC
TRACED:		C'K'D	

BENT NO. 2, 3 AND 4 REMOVAL DETAILS  
 INDIANA DEPARTMENT OF TRANSPORTATION  
 MARION COUNTY

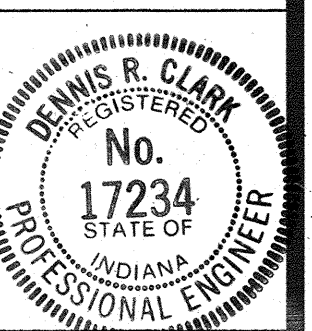
SCALE: - 3/8" = 1'-0" Unless  
 Otherwise Noted

DATE: - December 7,

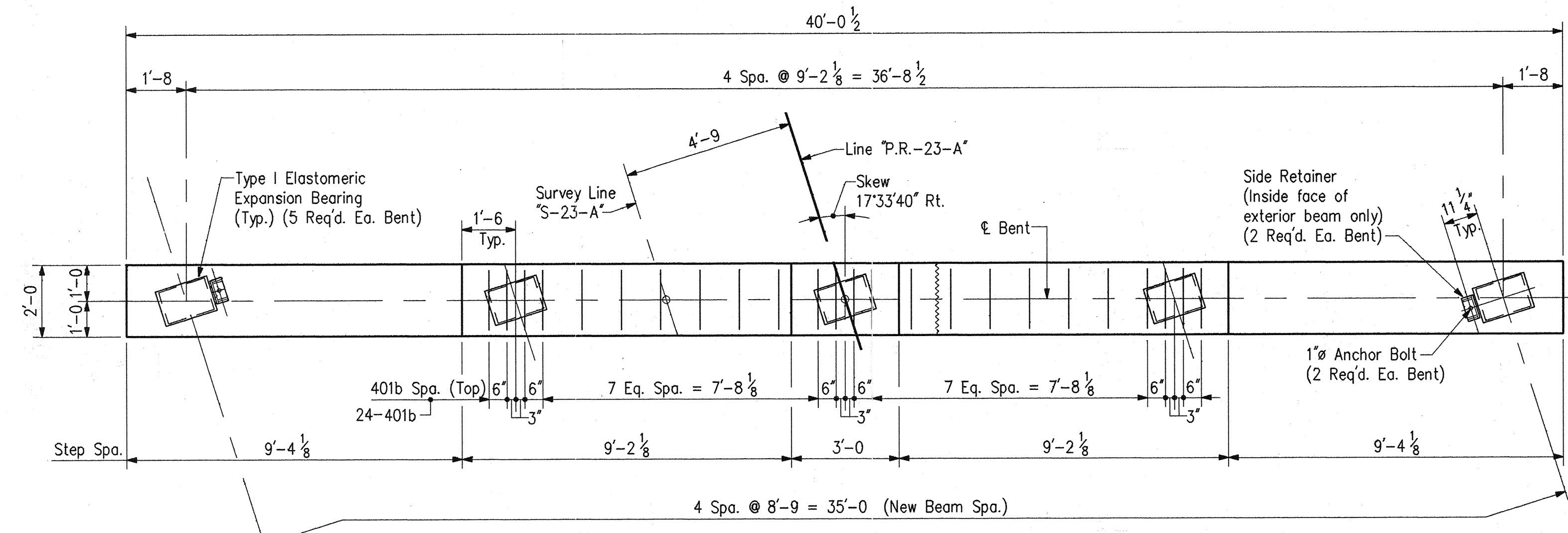
19 94

*Dennis R. Clark*

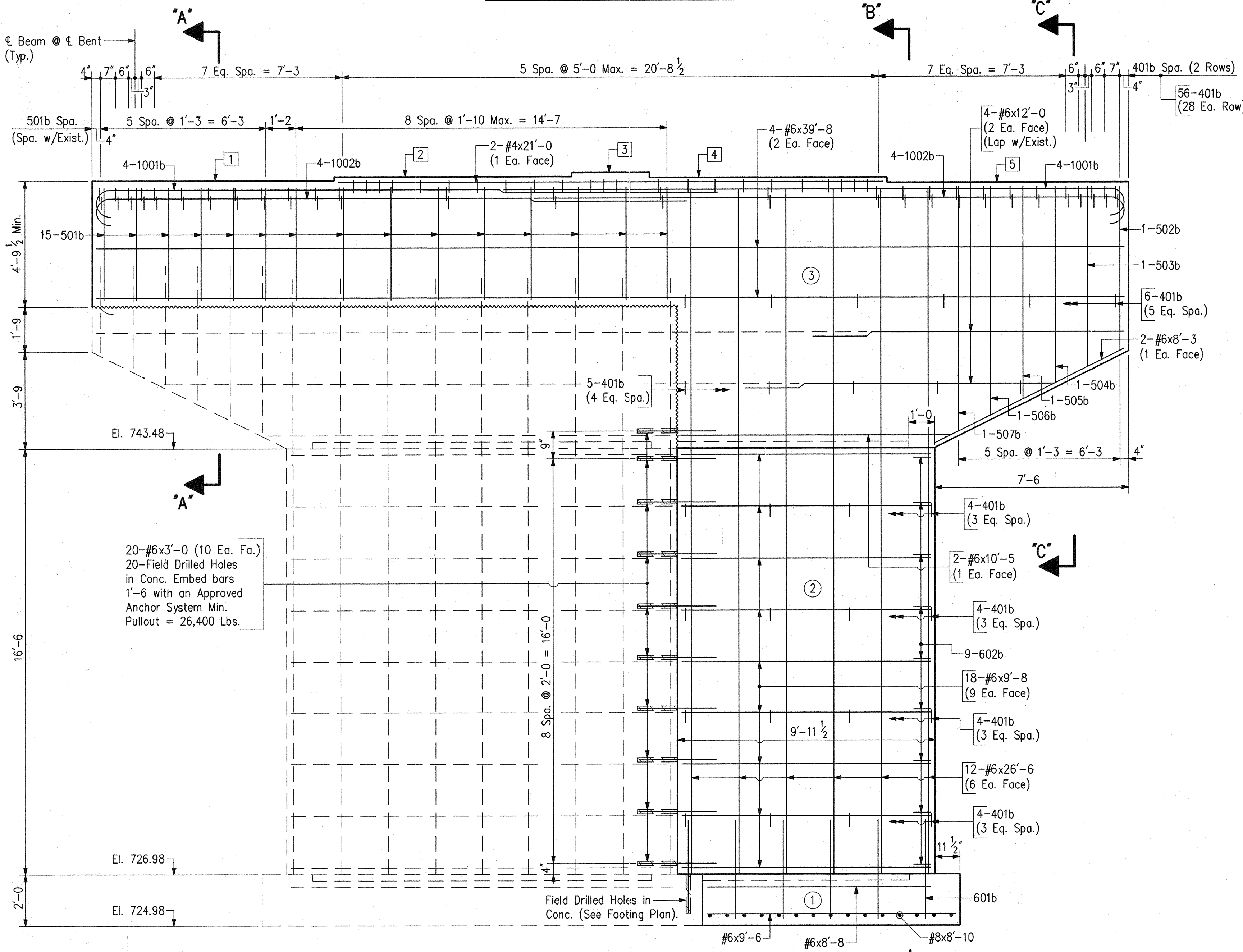
DRAWING: - D8 OF 17 SHEET: - 14 OF 67  
 PROJECT: - NH/465-4(284)125 STATION: - x  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-5275/C



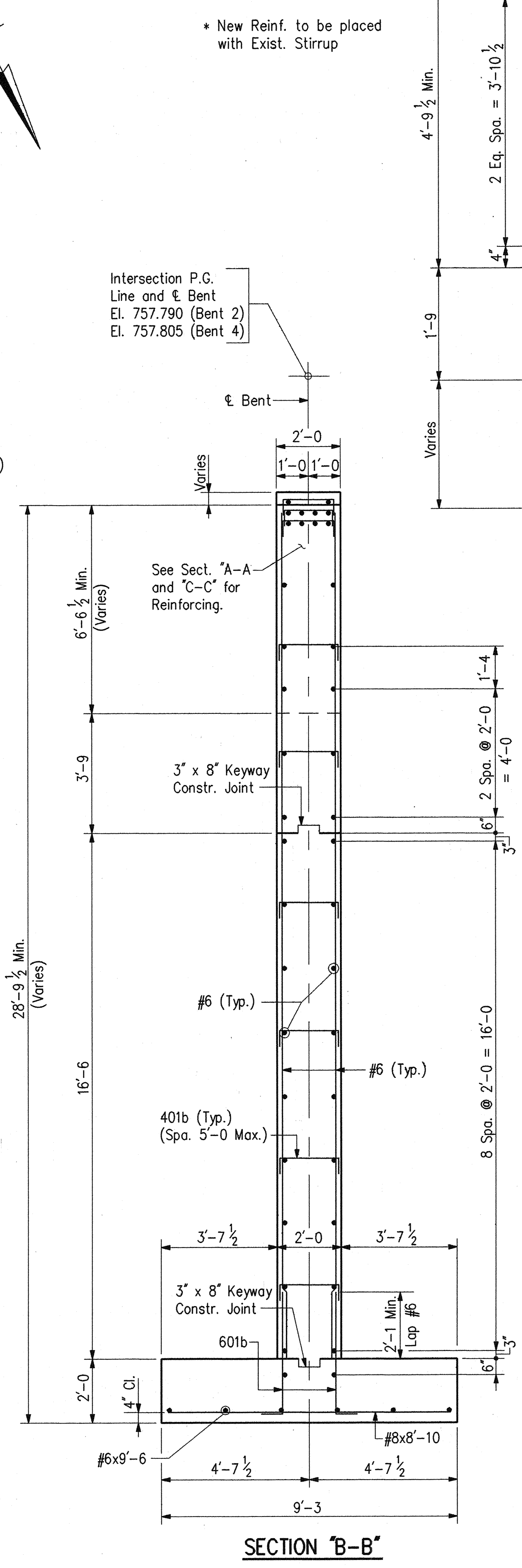
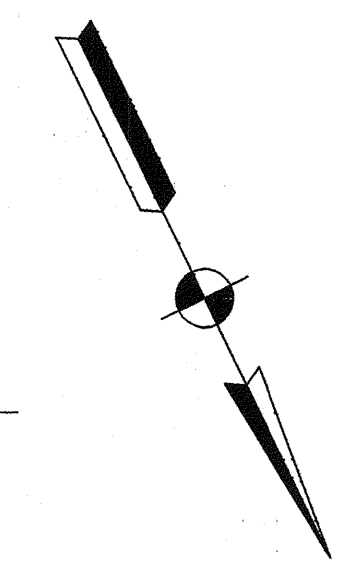




PLAN - BENT NO. 2 AND NO. 4



ELEVATION - BENT NO. 2 AND NO. 4



BRIDGE SEAT ELEVATIONS

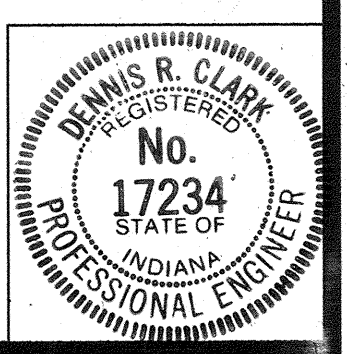
- 1 El. 753.865 (Bent 2)  
El. 753.780 (Bent 4)
- 2 El. 754.015 (Bent 2)  
El. 753.980 (Bent 4)
- 3 El. 754.170 (Bent 2)  
El. 754.180 (Bent 4)
- 4 El. 753.970 (Bent 2)  
El. 754.030 (Bent 4)
- 5 El. 753.765 (Bent 2)  
El. 753.875 (Bent 4)

NOTES:

- For Reinforcing Bar Notes and Bar Bending Details, see Bridge Std. C1.
- For Bar Bending Diagrams and Bill of Materials, see Dwg. D11
- For Footing Plan and Substructure Excavation Detail, see Dwg. D11
- For Elastomeric Bearing Details, see Dwg. D13.
- For General Notes, see Dwg. D2.
- (X) Indicates Pour Number
- Minimum Lap for #6 Bar = 2'-1.

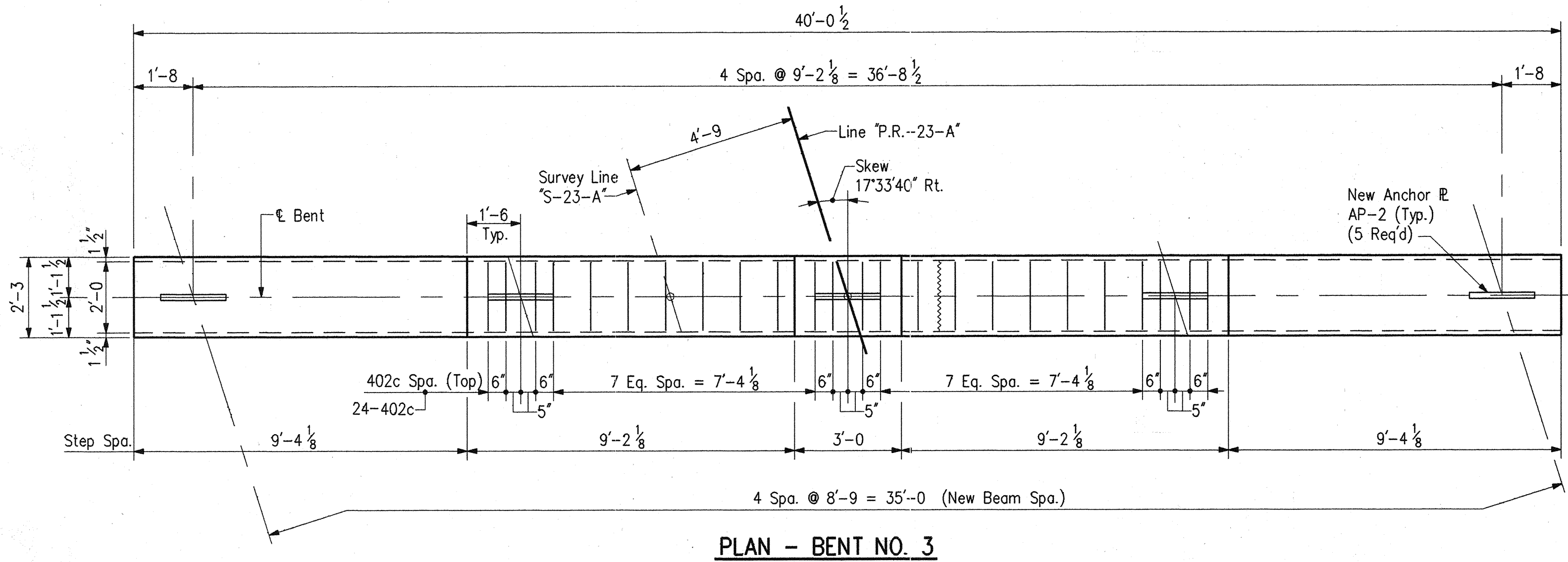
BENT NO. 2 AND NO. 4 DETAILS  
 INDIANA DEPARTMENT OF TRANSPORTATION  
 MARION COUNTY

SCALE: - 3/8" = 1'-0 Unless Otherwise Noted  
 DATE: - December 7, 1994  
 DRAWING: - D9 OF 17 SHEET: - 15 OF 67  
 PROJECT: - NH/465-4(284)125 STATION: - x  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-5275/C

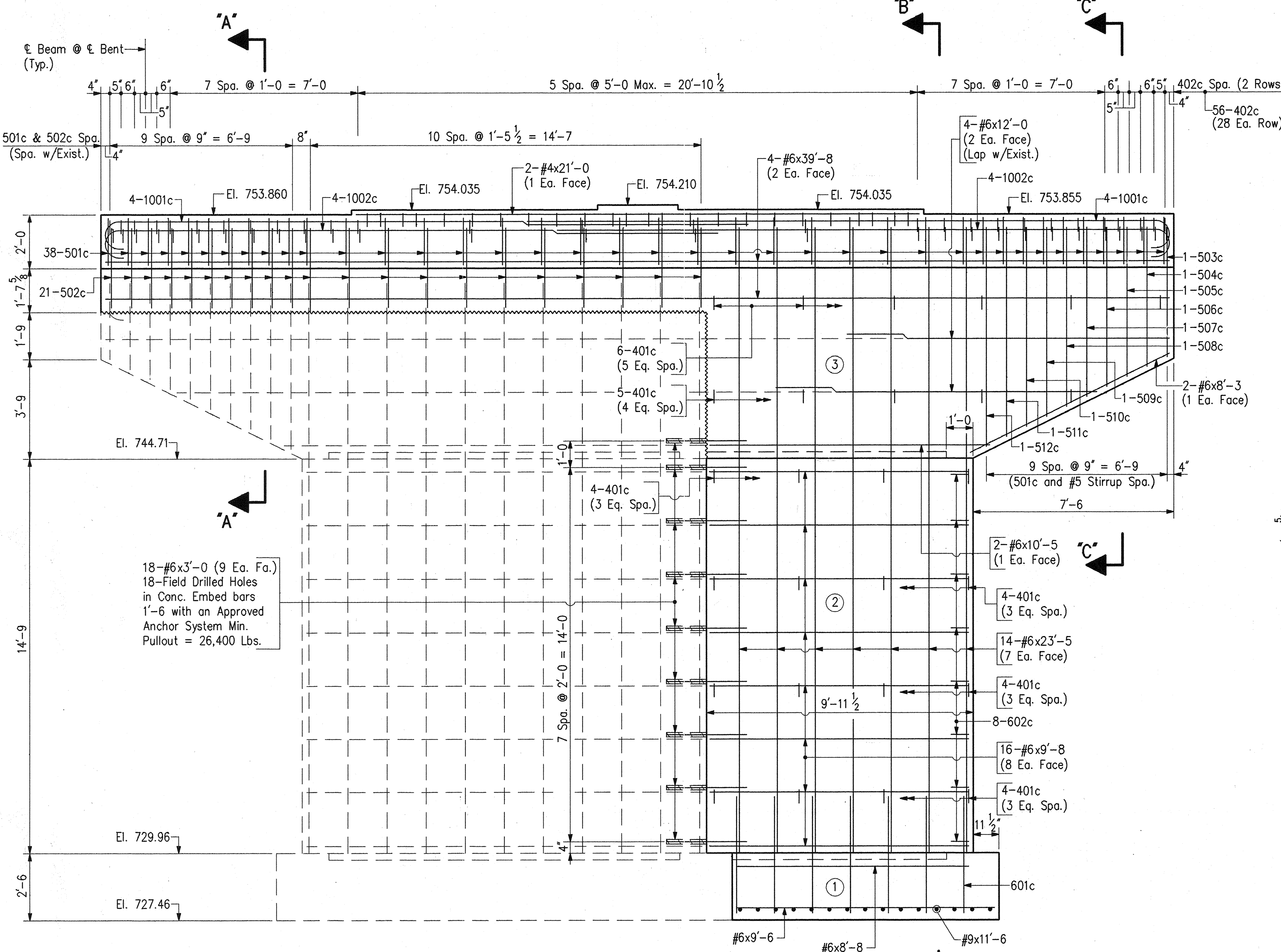


DESIGNED:	DPJ	C.K'D.	DRC
DRAWN:	PCR	C.K'D.	DRC
TRACED:		C.K'D.	

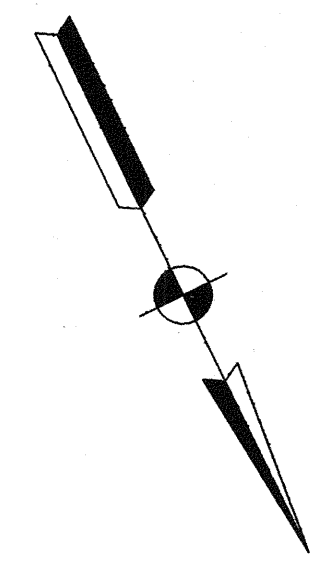




PLAN - BENT NO. 3

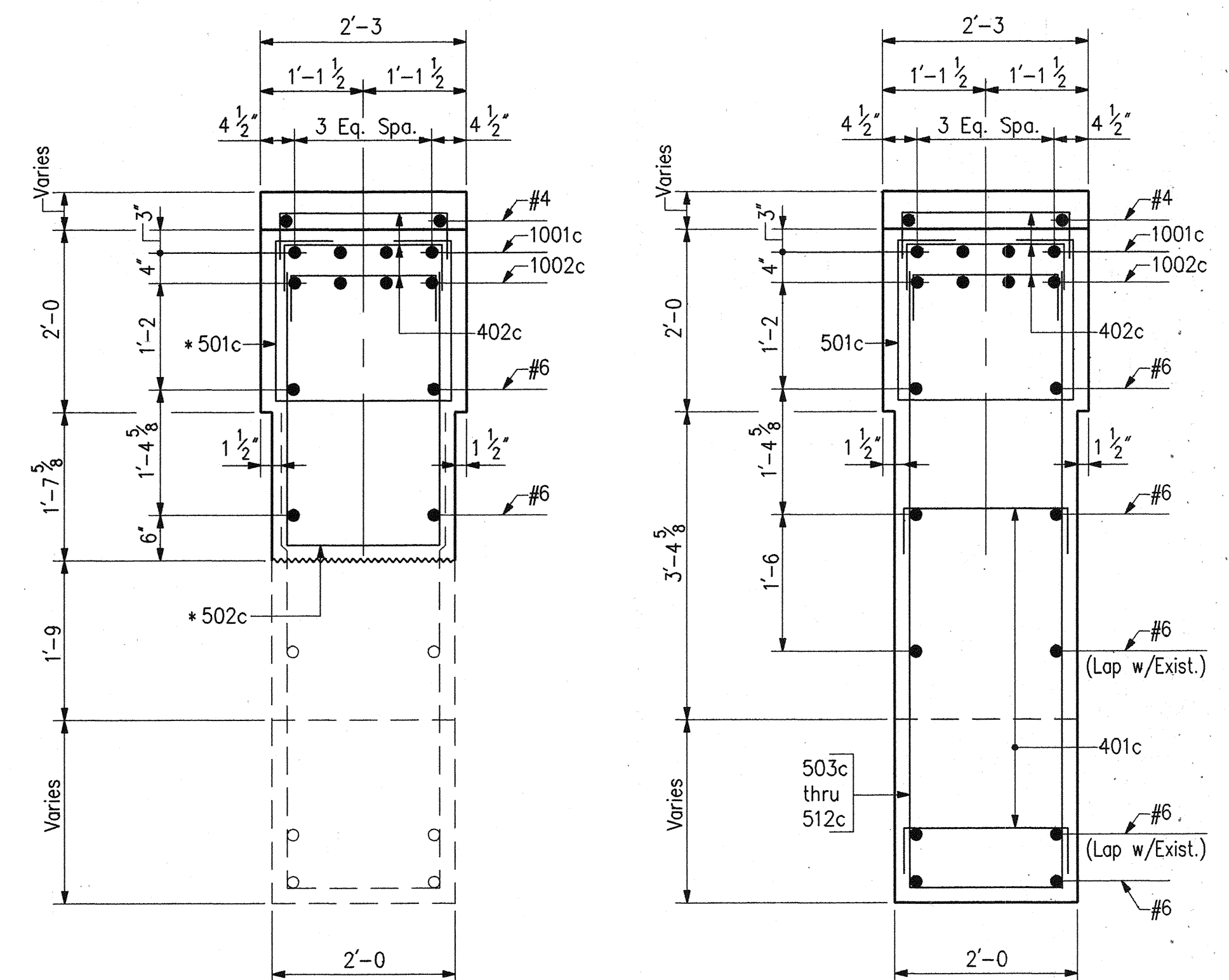


ELEVATION - BENT NO. 3



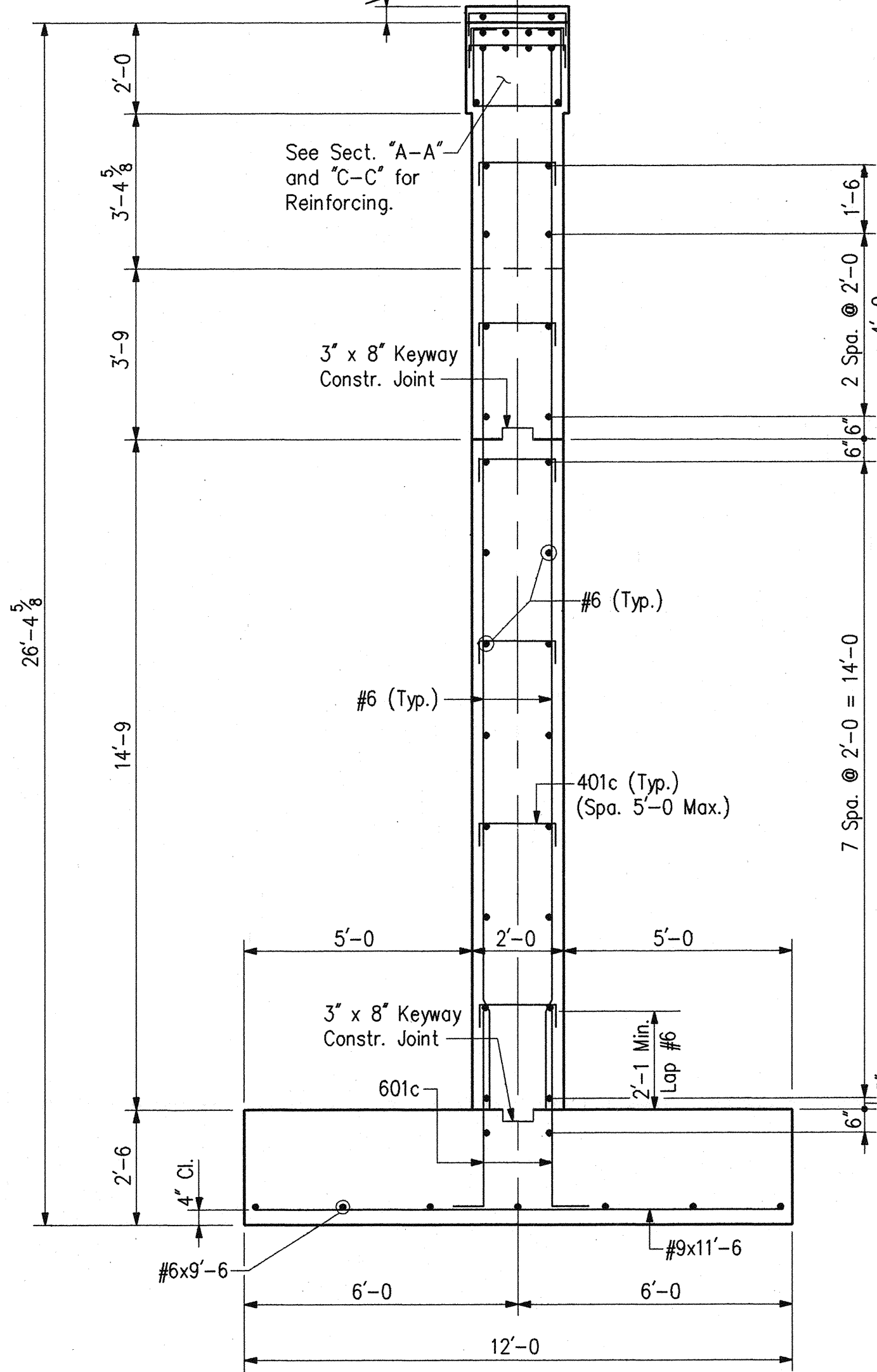
\* New Reinf. to be placed with Exist. Stirrup

Intersection P.G. Line and Bent El. 758.100

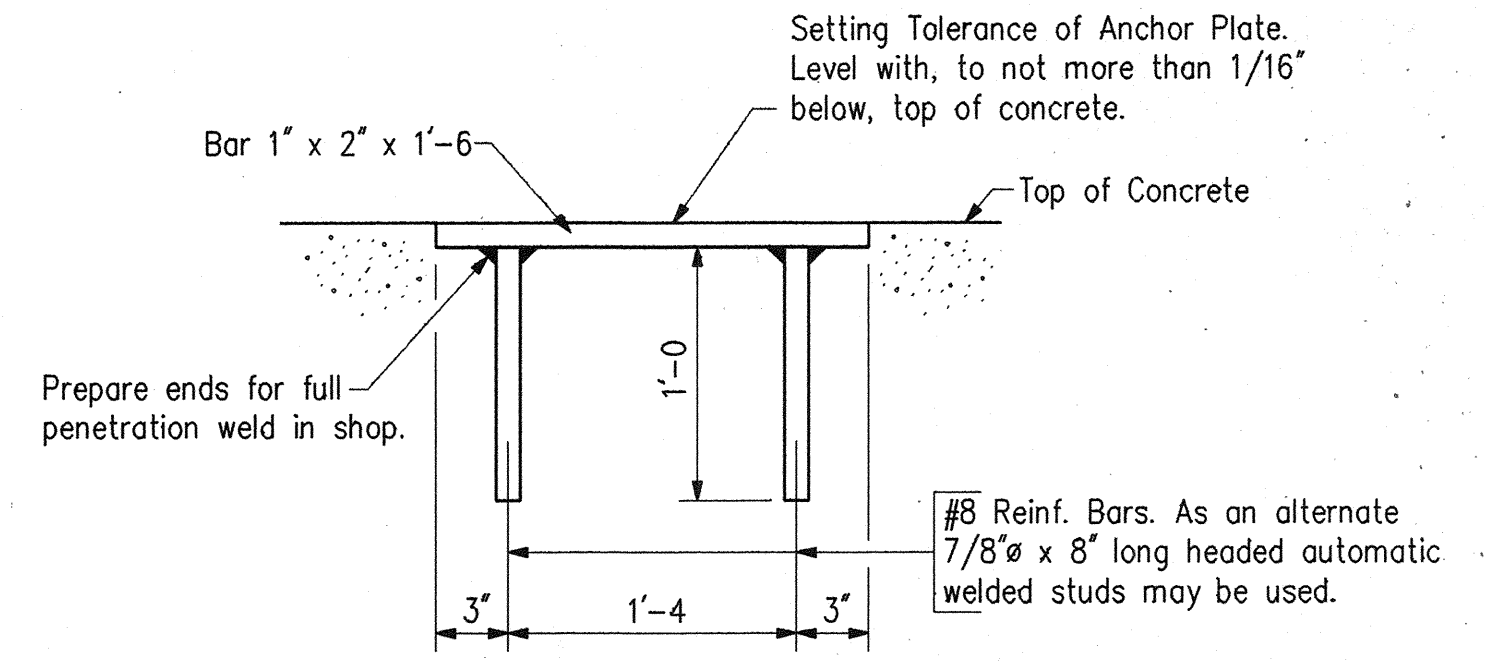


SECTION "A-A"

SECTION "C-C"



SECTION "B-B"



ANCHOR PLATE MK-AP2 DETAILS

NOTES:

- For Reinforcing Bar Notes and Bar Bending Details, see Bridge Std. C1.
- For Bar Bending Diagrams and Bill of Materials, see Dwg. D11.
- For Footing Plan and Substructure Excavation Detail, see Dwg. D11.
- For Fixed Bearing Details, see Dwg. D13.
- For General Notes, see Dwg. D2.
- (X) Indicates Pour Number
- Minimum Lap for #6 Bar = 2'-1.

BENT NO. 3 DETAILS

INDIANA DEPARTMENT OF TRANSPORTATION  
MARION COUNTY

SCALE: - 3/8" = 1'-0" Unless Otherwise Noted  
DATE: - December 7, 1994

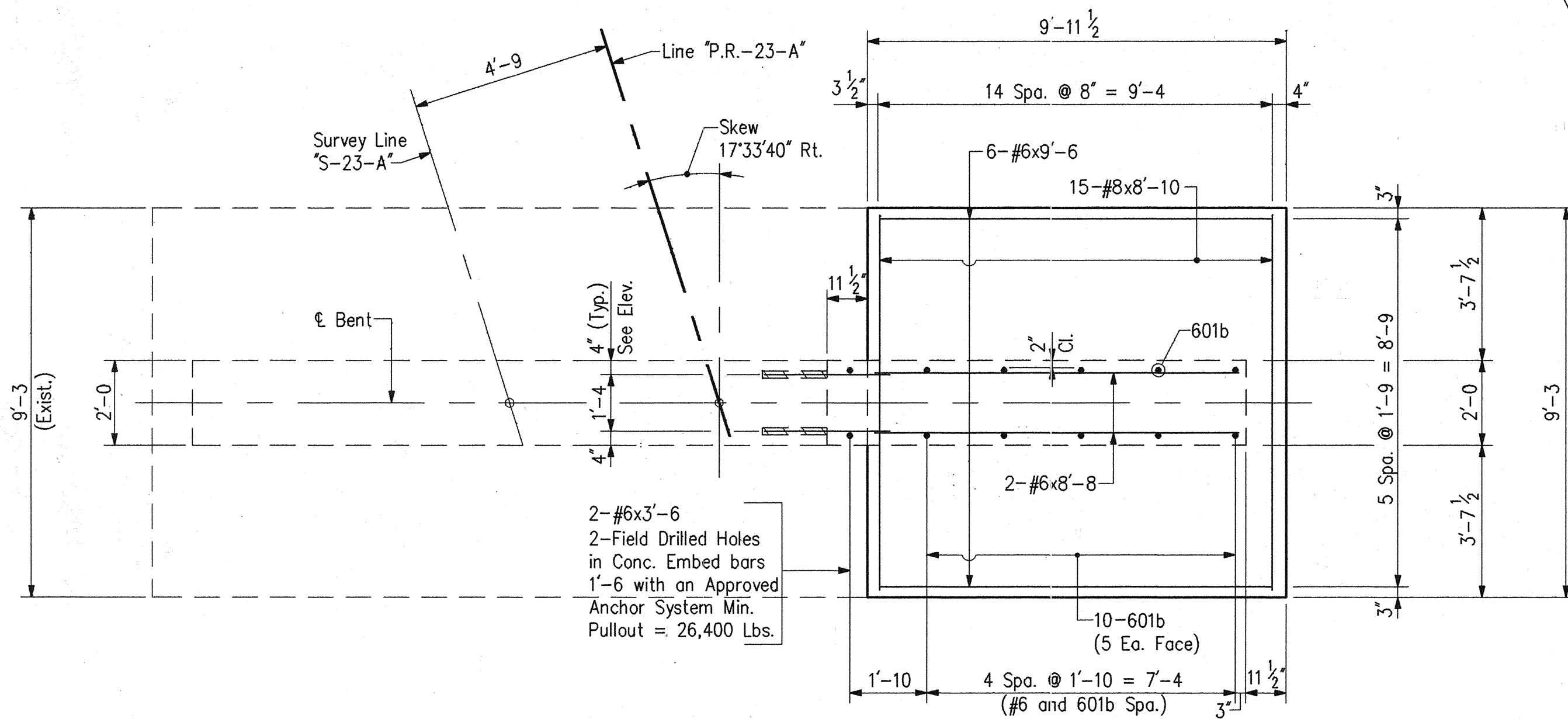
*Dennis R. Clark*

DRAWING: D10 OF 17 SHEET: 16 OF 67  
PROJECT: - NH/465-4(284)125 STATION: - x  
BRIDGE CONTRACT NO. B-21773  
BRIDGE FILE: - I-465-127-5275P C

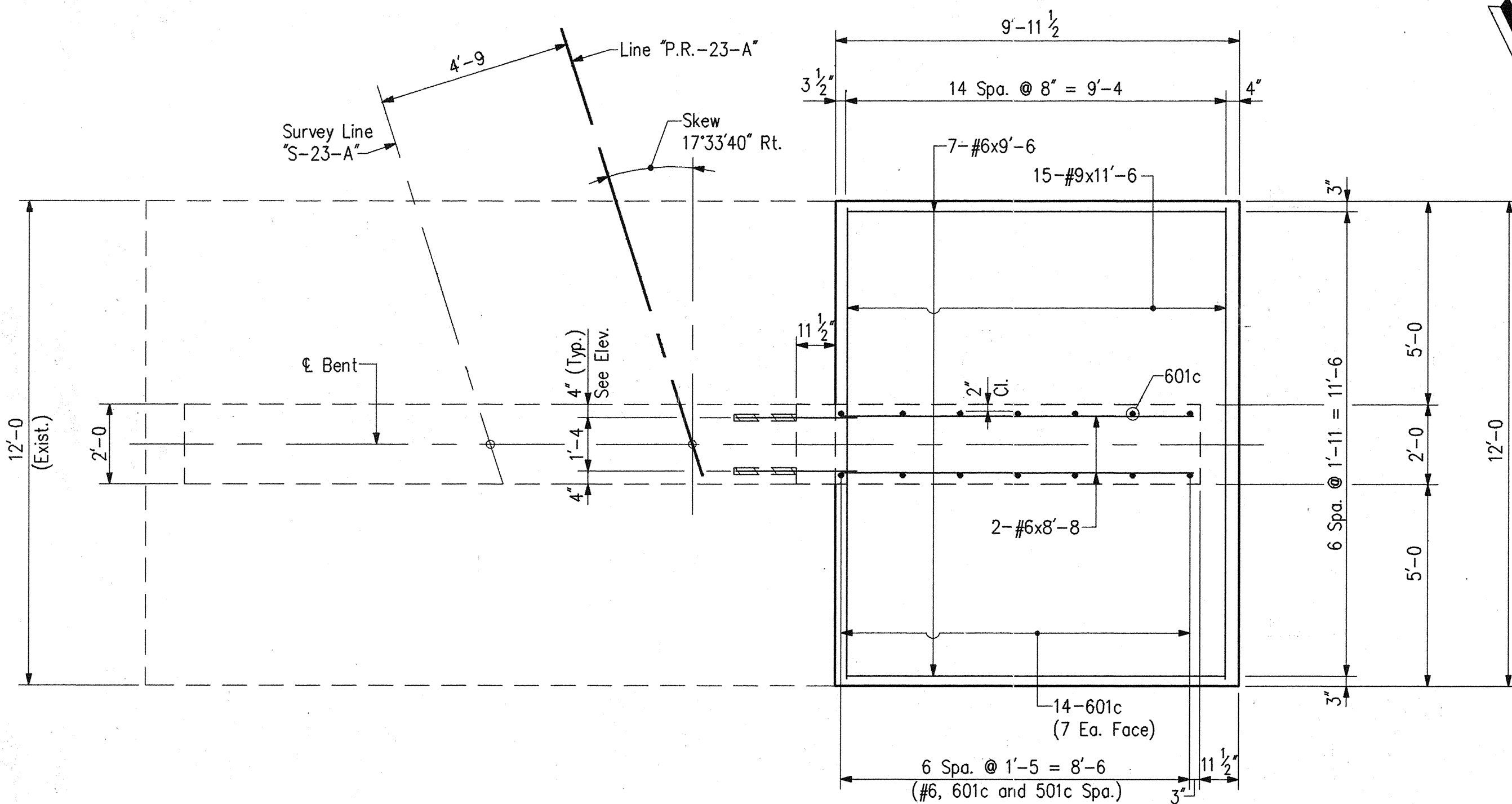


DESIGNED:	DPJ	C'K'D	DRC
DRAWN:	PCR	C'K'D	DRC
TRACED:		C'K'D	

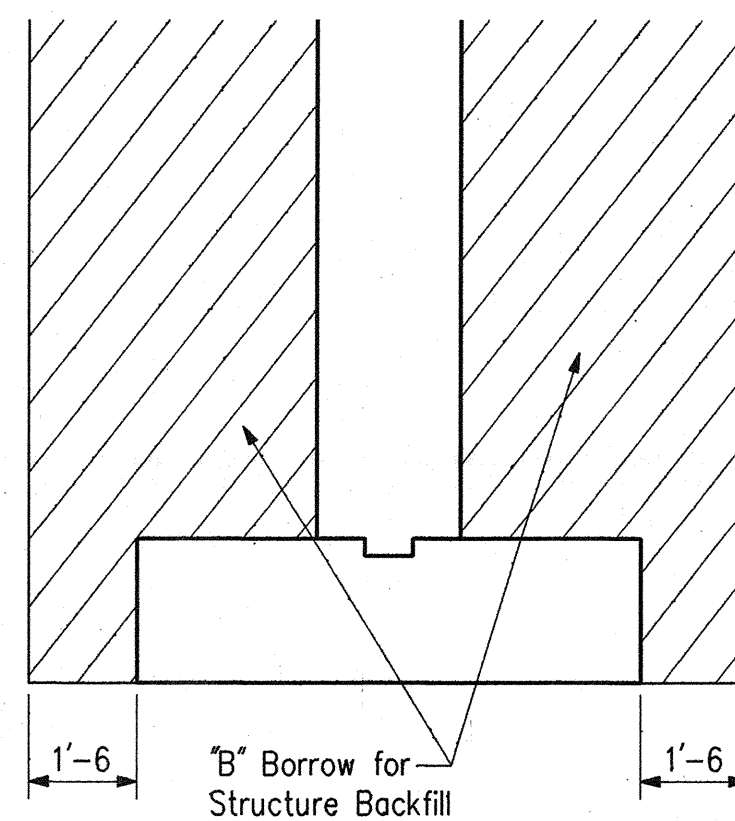
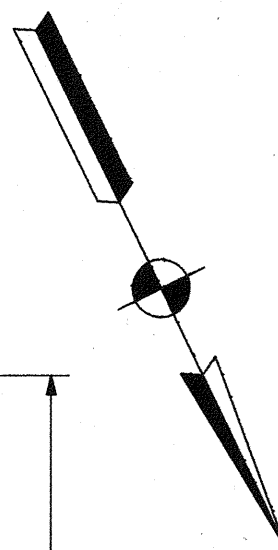
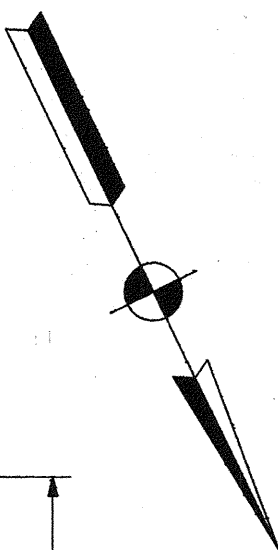




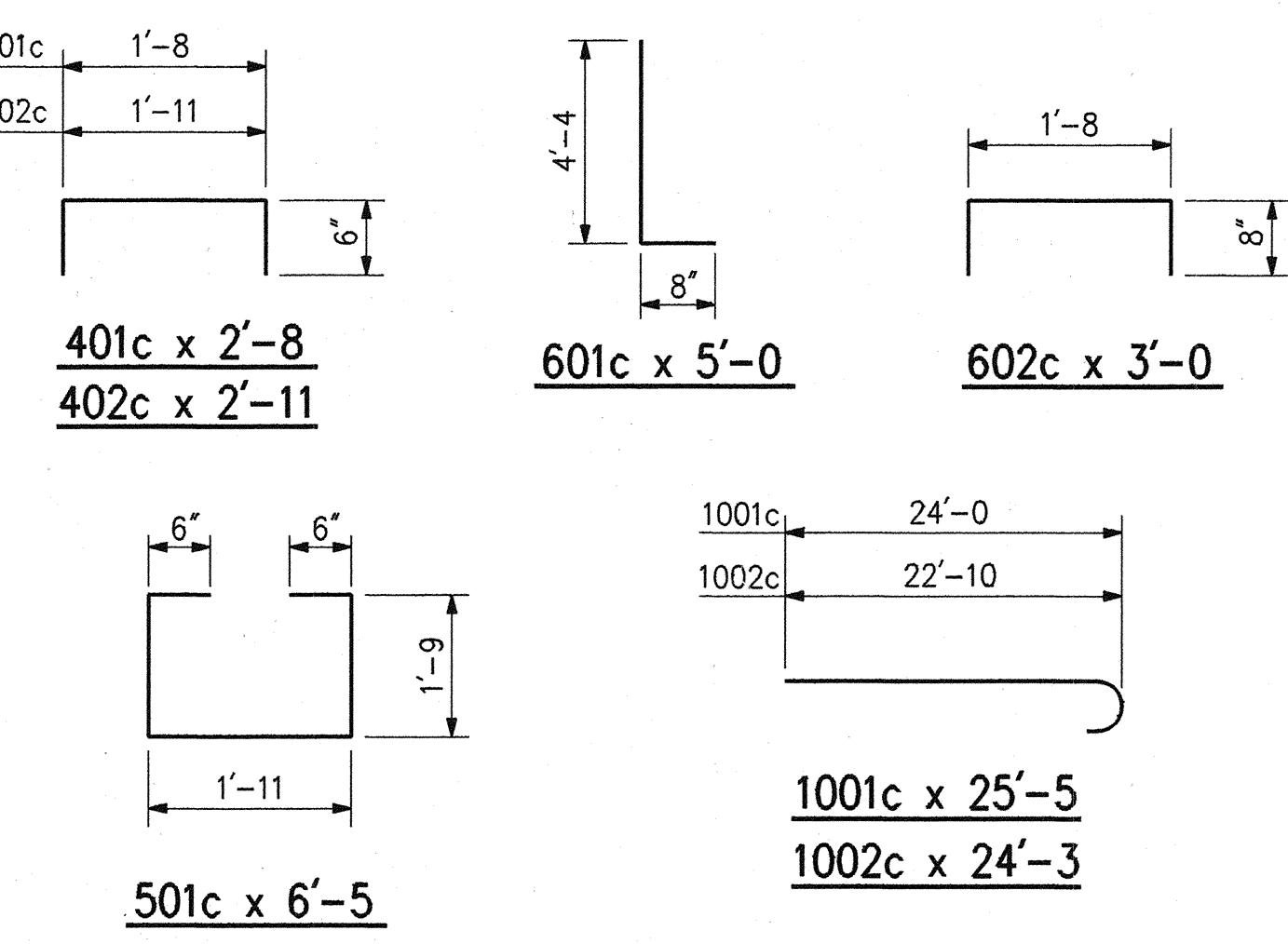
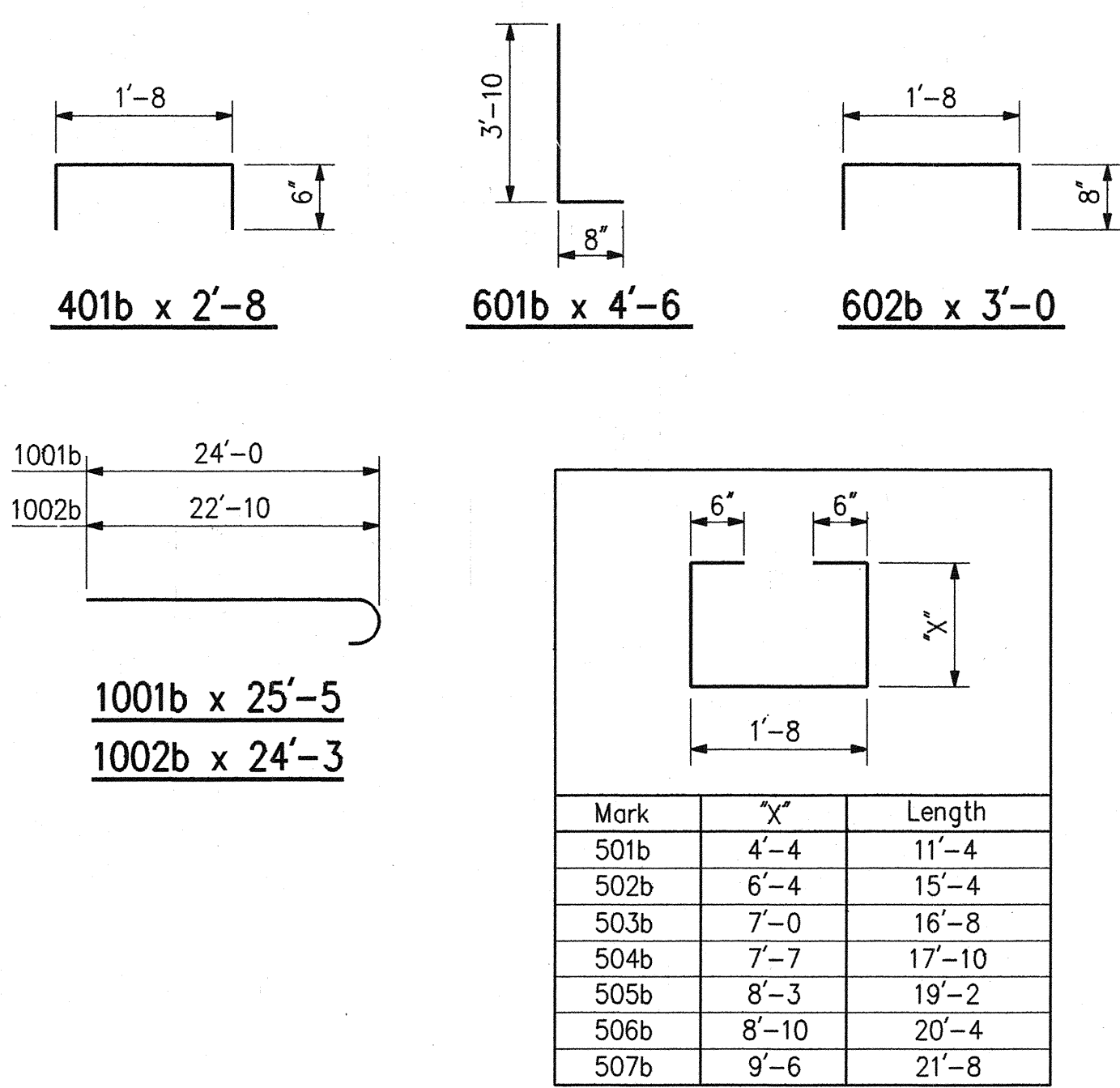
FOOTING PLAN - BENT NO. 2 AND NO. 4



FOOTING PLAN - BENT NO. 3



SUBSTRUCTURE EXCAVATION DETAIL  
No Scale



**\* BENT NO. 2 AND NO. 4  
BILL OF MATERIALS**

REINFORCING STEEL			
SIZE & MARK	No. OF BARS	LENGTH	WEIGHT (LBS.)
PLAIN REINFORCING			
1002b	8	24'-3"	
1001b	8	25'-5"	
TOTAL #10 BARS			1710
#8	15	8'-10"	
TOTAL #8 BARS			354
602b	9	3'-0"	
601b	10	4'-6"	
#6	4	39'-8"	
#6	12	26'-6"	
#6	4	12'-0"	
#6	2	10'-5"	
#6	18	9'-8"	
#6	6	9'-6"	
#6	2	8'-8"	
#6	2	8'-3"	
#6	2	3'-6"	
#6	20	3'-0"	
TOTAL #6 BARS			1426
507b	1	21'-8"	
506b	1	20'-4"	
505b	1	19'-2"	
504b	1	17'-10"	
503b	1	16'-8"	
502b	1	15'-4"	
501b	15	11'-4"	
TOTAL #5 BARS			293
401b	107	2'-8"	
#4	2	21'-0"	
TOTAL #4 BARS			219
TOTAL PLAIN REINF.			4002
CONCRETE			
CLASS 'B' IN FOOTINGS			
Pour No. 1	6.8 Cys.		
TOTAL CLASS 'B' IN FOOTINGS	6.8 Cys.		
CLASS 'A' IN SUBSTRUCTURE			
Pour No. 2	12.2 Cys.		
Pour No. 3	20.8 Cys.		
TOTAL CLASS 'A' IN SUBSTRUCTURE	33.0 Cys.		
MISCELLANEOUS			
Surface Seal	6 Sft.		
Foundation Excavation (Unclassified)	79 Cys.		
'B' Borrow for Structure Backfill	60 Cys.		
Elastomeric Expansion Bearing Type I	5 Each		
Field Drilled Holes in Concrete	22 Each		

**BENT NO. 3  
BILL OF MATERIALS**

REINFORCING STEEL			
SIZE & MARK	No. OF BARS	LENGTH	WEIGHT (LBS.)
PLAIN REINFORCING			
1002c	8	24'-3"	
1001c	8	25'-5"	
TOTAL #10 BARS			1710
#9	15	11'-6"	
TOTAL #9 BARS			587
602c	8	3'-0"	
601c	14	5'-0"	
#6	4	39'-8"	
#6	14	23'-5"	
#6	4	12'-0"	
#6	2	10'-5"	
#6	16	9'-8"	
#6	7	9'-6"	
#6	2	8'-8"	
#6	2	8'-3"	
#6	18	3'-0"	
TOTAL #6 BARS			1439
512c	1	18'-2"	
511c	1	17'-4"	
510c	1	16'-8"	
509c	1	15'-10"	
508c	1	15'-2"	
507c	1	14'-4"	
506c	1	13'-8"	
505c	1	12'-10"	
504c	1	12'-2"	
503c	1	11'-4"	
502c	21	7'-8"	
501c	38	6'-5"	
TOTAL #5 BARS			576
402c	80	2'-11"	
401c	27	2'-8"	
#4	2	21'-0"	
TOTAL #4 BARS			232
TOTAL PLAIN REINF.			4544
CONCRETE			
CLASS 'B' IN FOOTINGS			
Pour No. 1	11.1 Cys.		
TOTAL CLASS 'B' IN FOOTINGS	11.1 Cys.		
CLASS 'A' IN SUBSTRUCTURE			
Pour No. 2	10.9 Cys.		
Pour No. 3	18.0 Cys.		
TOTAL CLASS 'A' IN SUBSTRUCTURE	28.9 Cys.		
MISCELLANEOUS			
Surface Seal	62 Sft.		
Foundation Excavation (Unclassified)	80 Cys.		
'B' Borrow for Structure Backfill	64 Cys.		
Anchor Plate, AP-2	5 Each		
Field Drilled Holes in Concrete	18 Each		
Masonry Coating	55 Sft.		

**NOTES:**

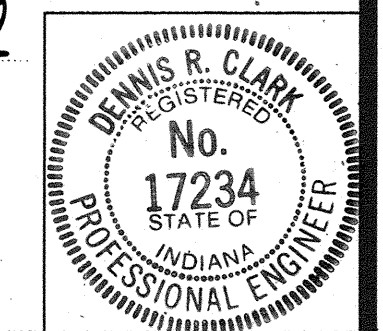
- For Reinforcing Bar Notes and Bar Bending Details, see Bridge Std. C1.
- For Bearing Details, see Dwg. D13.
- For General Notes, see Dwg. D2.

**BENT NO. 2, NO. 3 AND NO. 4 DETAILS  
AND BILL OF MATERIALS**

INDIANA DEPARTMENT OF TRANSPORTATION  
MARION COUNTY

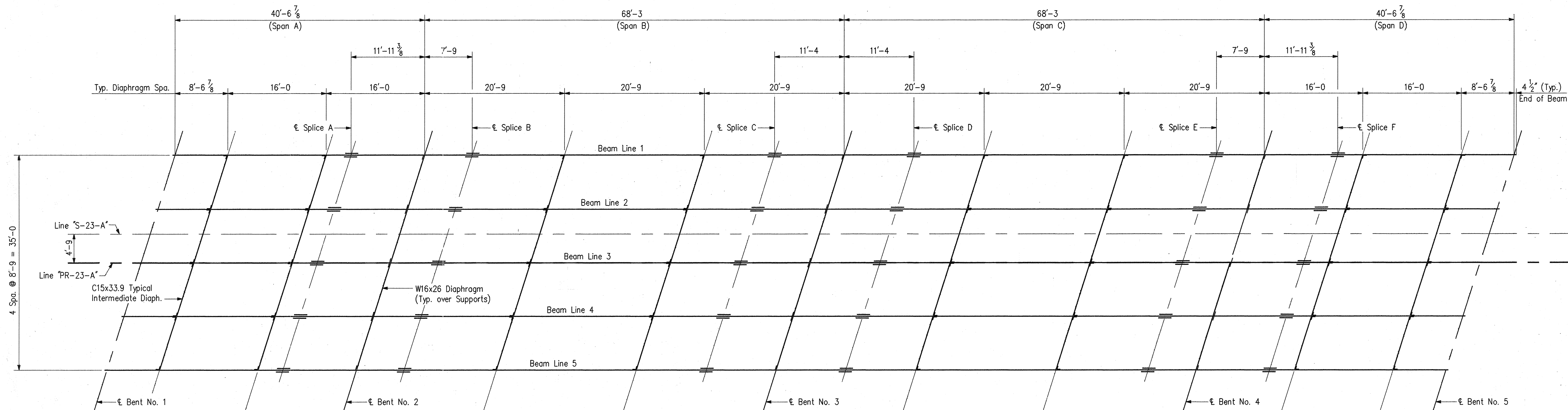
SCALE: - 3/8" = 1'-0" Unless Otherwise Noted  
DATE: - December 7, 1994  
*Dennis R. Clark*

DRAWING: - D11 OF 17 SHEET: - 17 OF 67  
PROJECT: - NH/465-4(284)125 STATION: - x  
BRIDGE CONTRACT NO. 8-21773  
BRIDGE FILE: - I-465-127-5275B/C

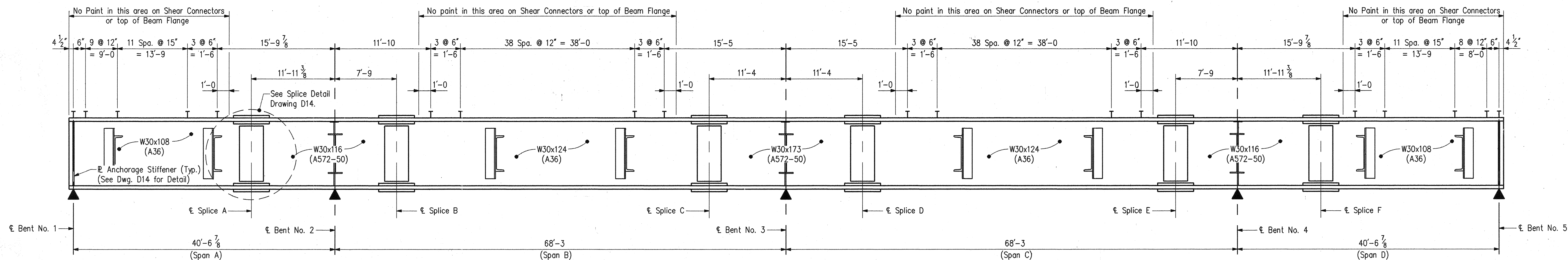


DESIGNED: DPJ	C'K'D: DRC
DRAWN: PCR	C'K'D: DRC
TRACED: C'K'D	





**FRAMING PLAN**



**TYPICAL BEAM ELEVATION**

No Scale

**ESTIMATED QUANTITIES:**

Structural Steel 164,907 Lbs.  
 (Includes 42,462 Lbs. A572-Grade 50  
 and 306 Lbs. A514)

**NOTES:**

- For Fabrication Notes, See Special Provisions.
- All Structural Steel to be ASTM A36 unless otherwise noted.
- For additional Steel Details, See Dwg. D13 & D14.

**FRAMING PLAN AND STRUCTURAL  
 STEEL DETAILS**

**INDIANA DEPARTMENT OF TRANSPORTATION  
 MARION COUNTY**

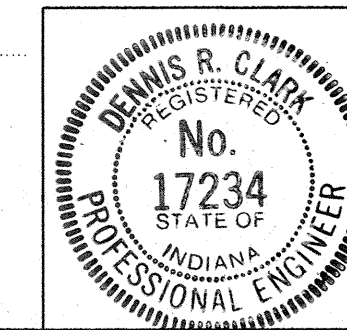
SCALE: - 1/8" = 1'-0" Unless  
 Otherwise Noted

DATE: - December 7,

1994

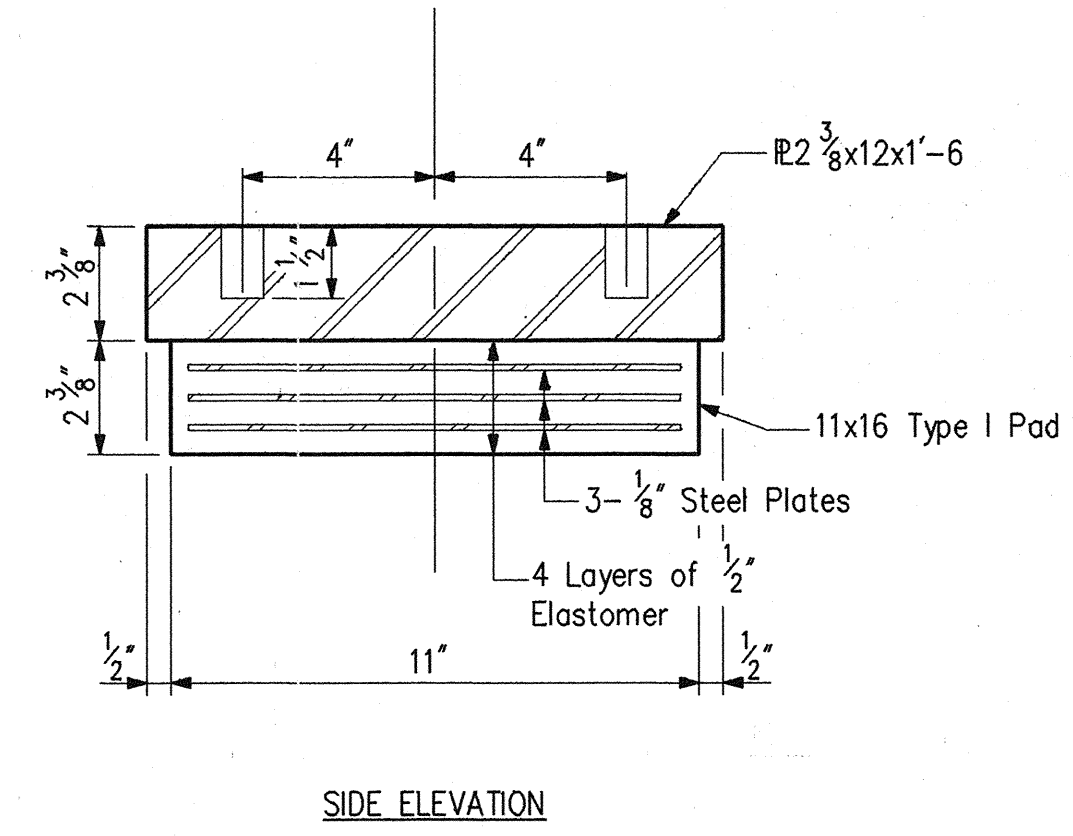
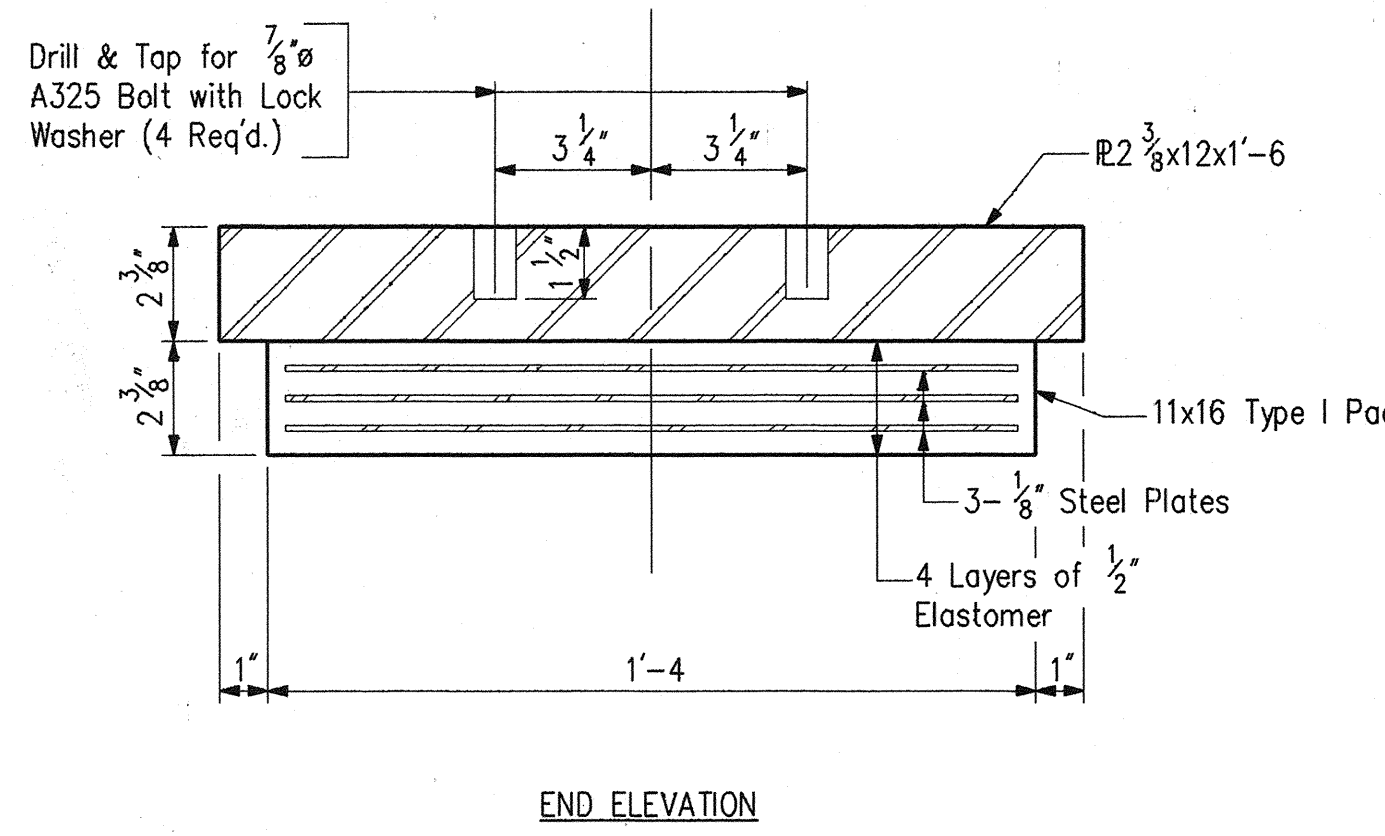
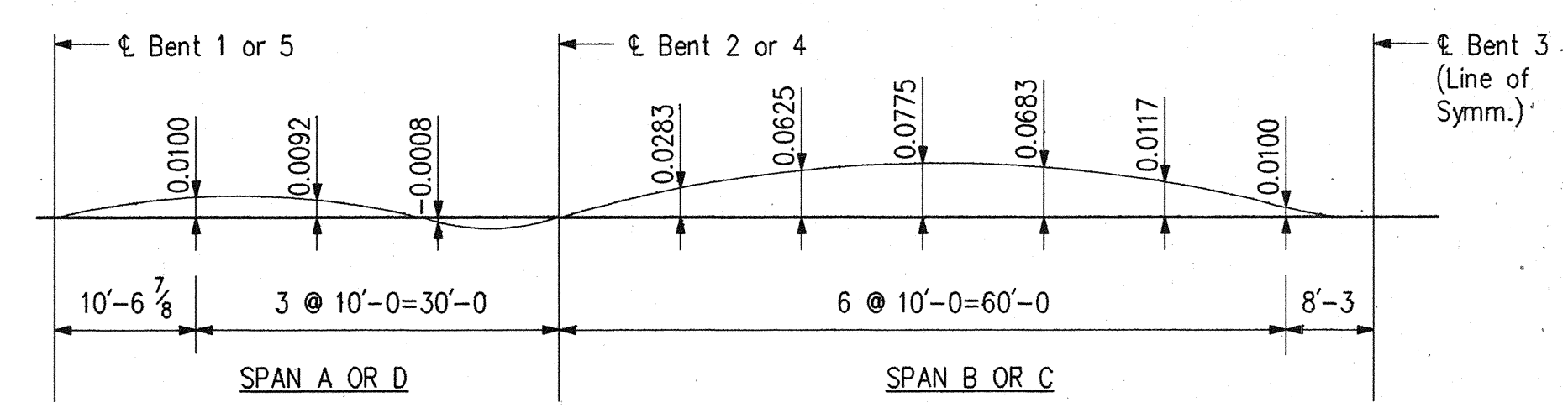
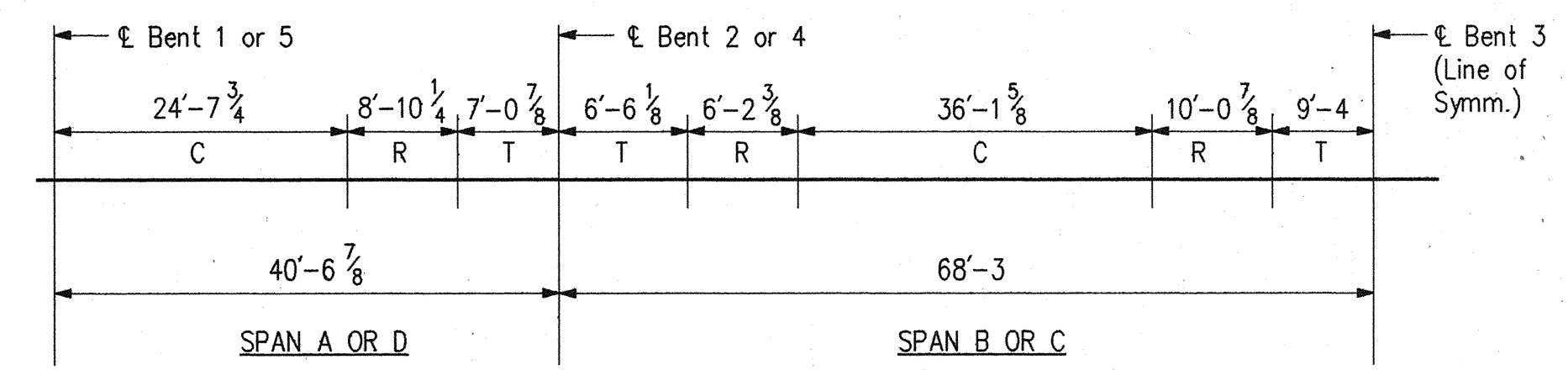
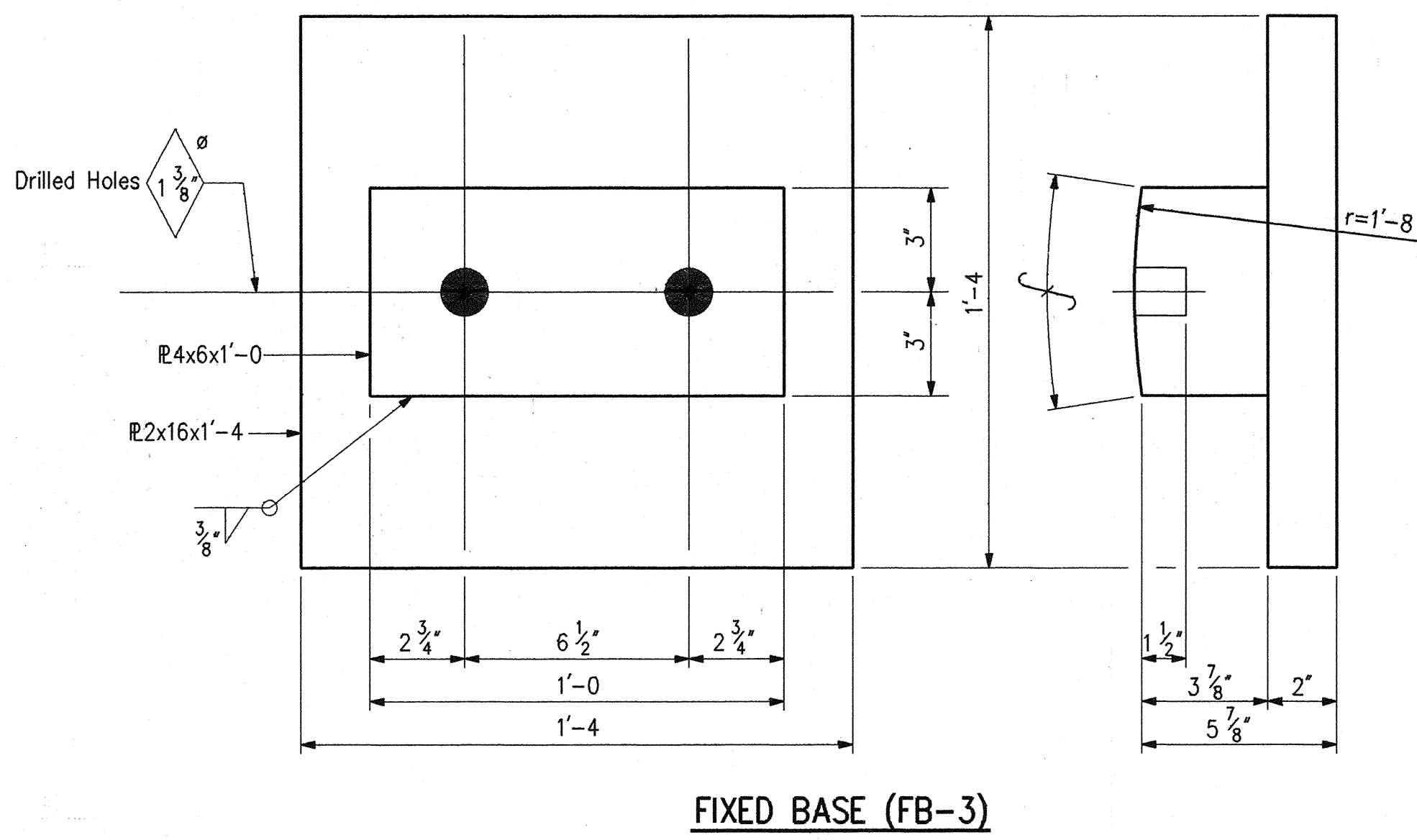
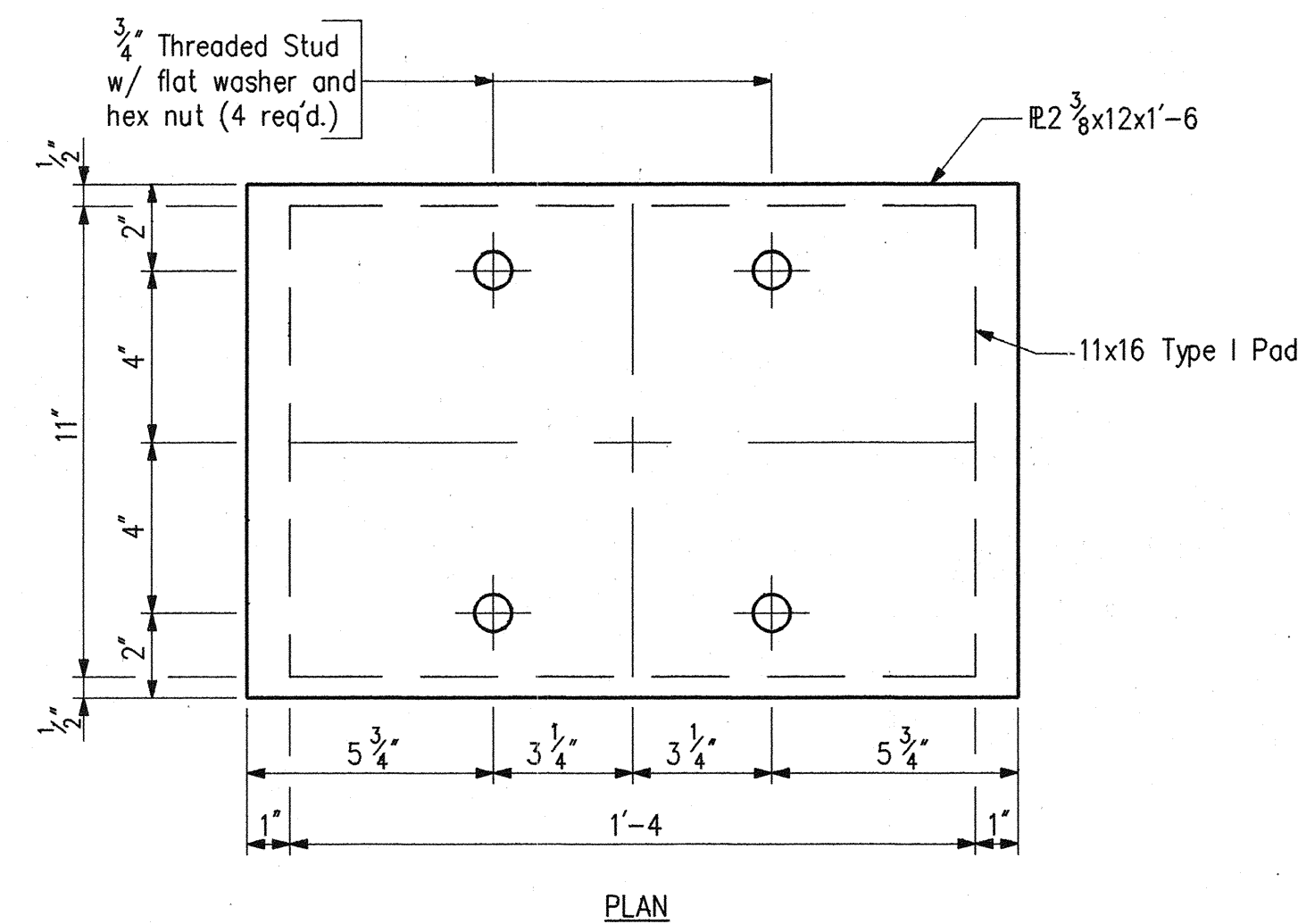
*Dennis R. Clark*

DRAWING: - D12 OF 17 SHEET: - 18 OF 67  
 PROJECT: - NH/465-4(284)125 STATION: - x  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-5275#C

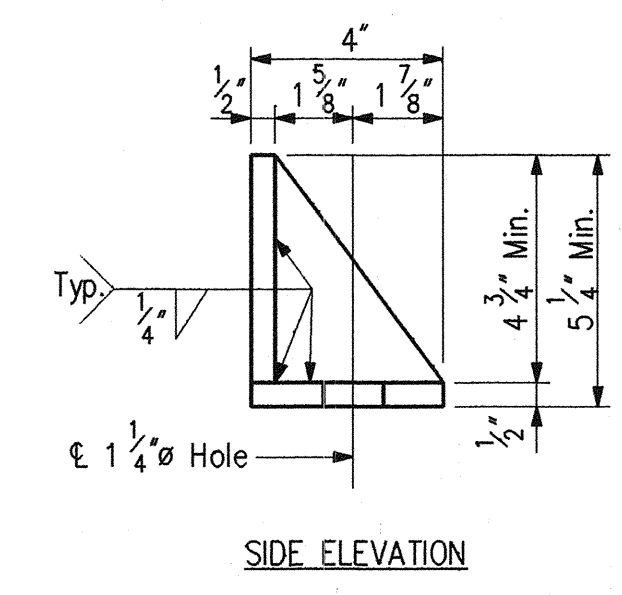
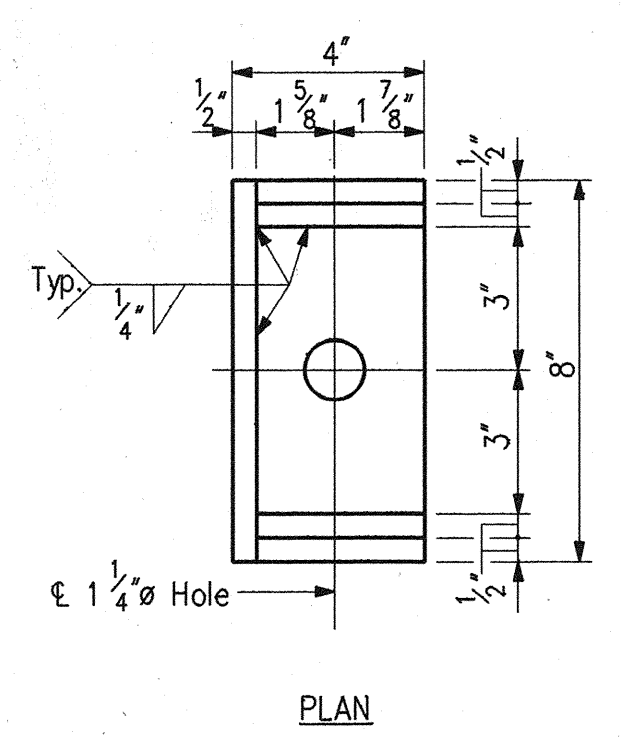
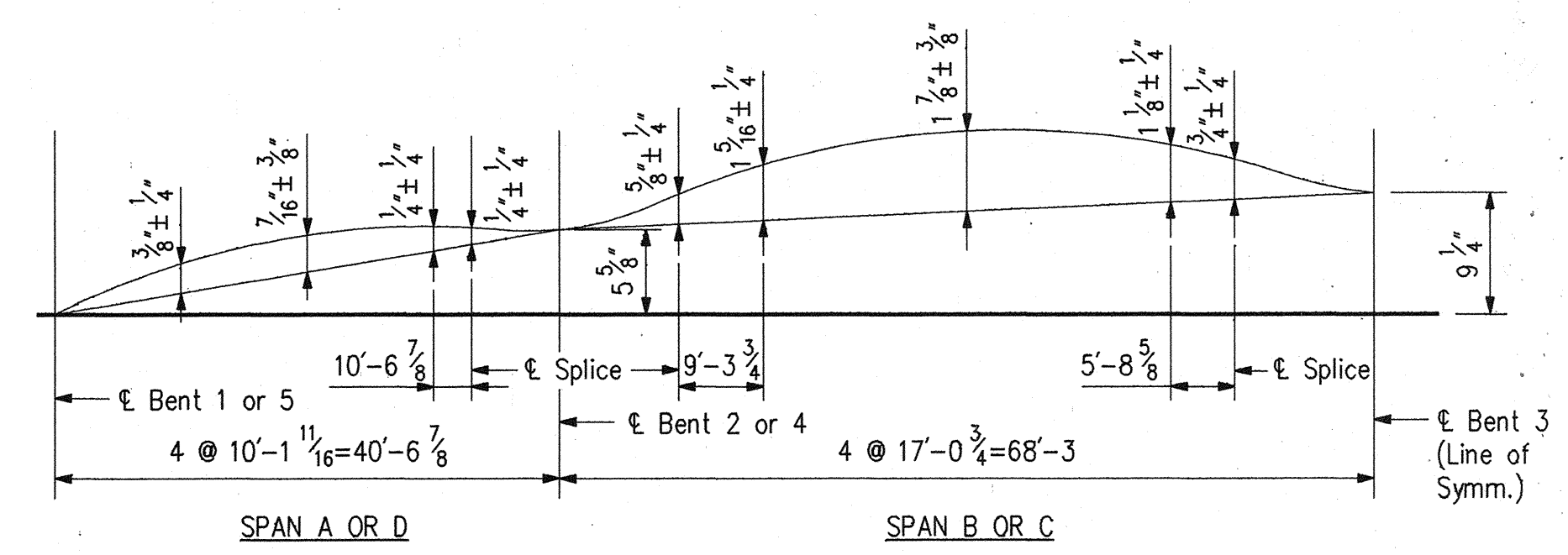
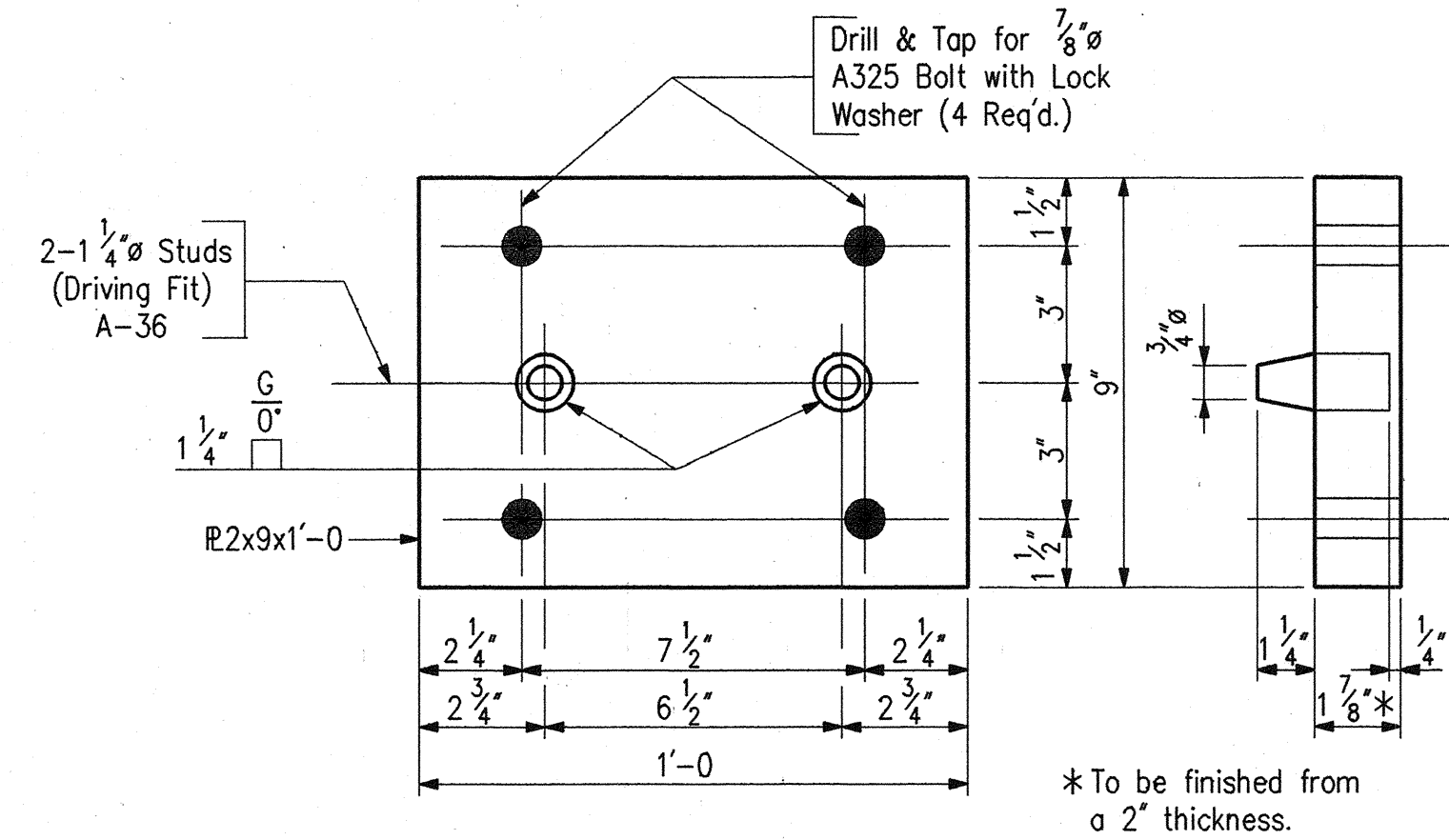


DESIGNED	DPJ	C'K'D	DRC
DRAWN	PCR	C'K'D	DRC
TRACED		C'K'D	

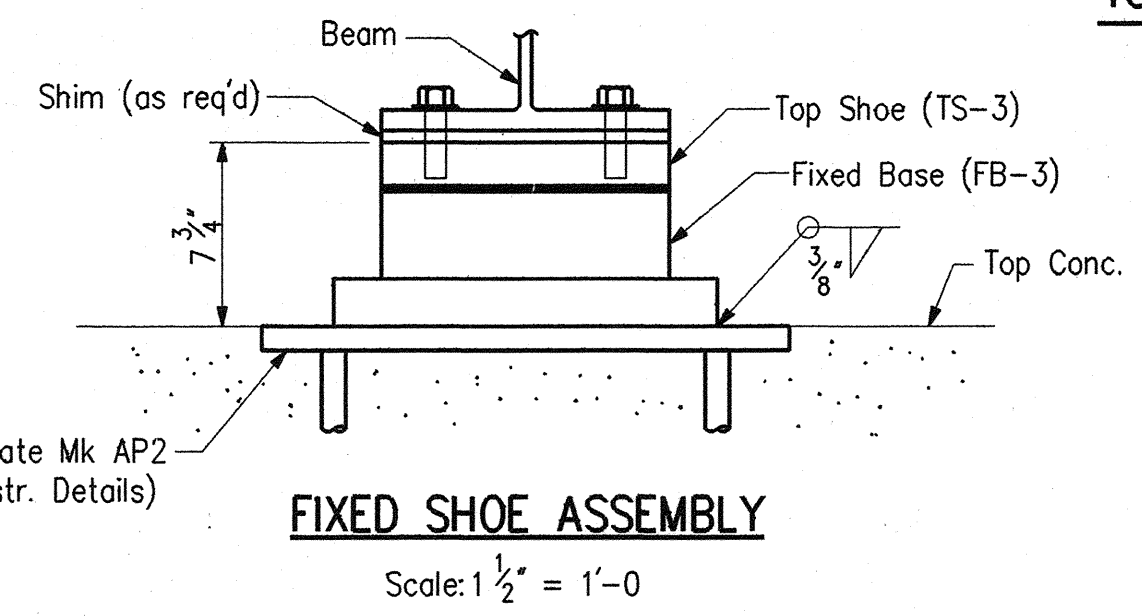




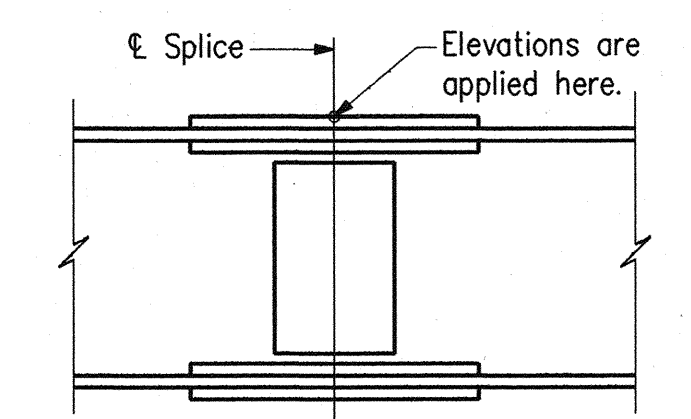
**TYPE I BEARING ASSEMBLY**



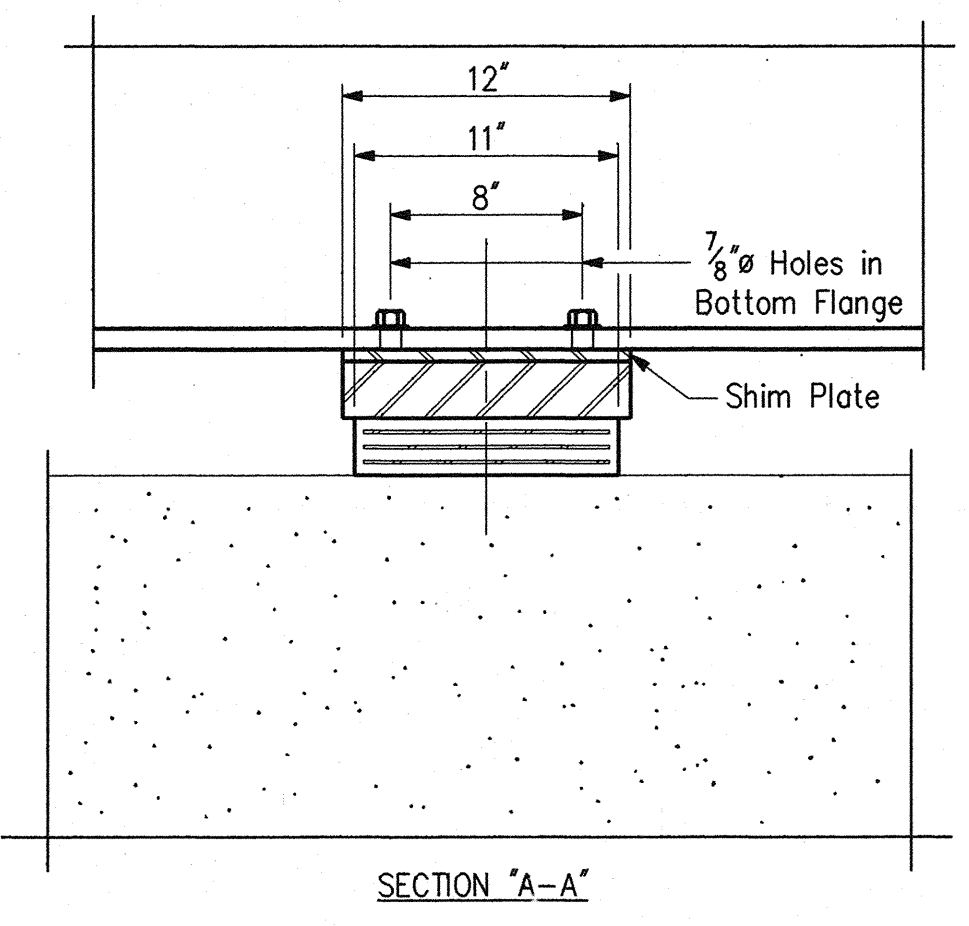
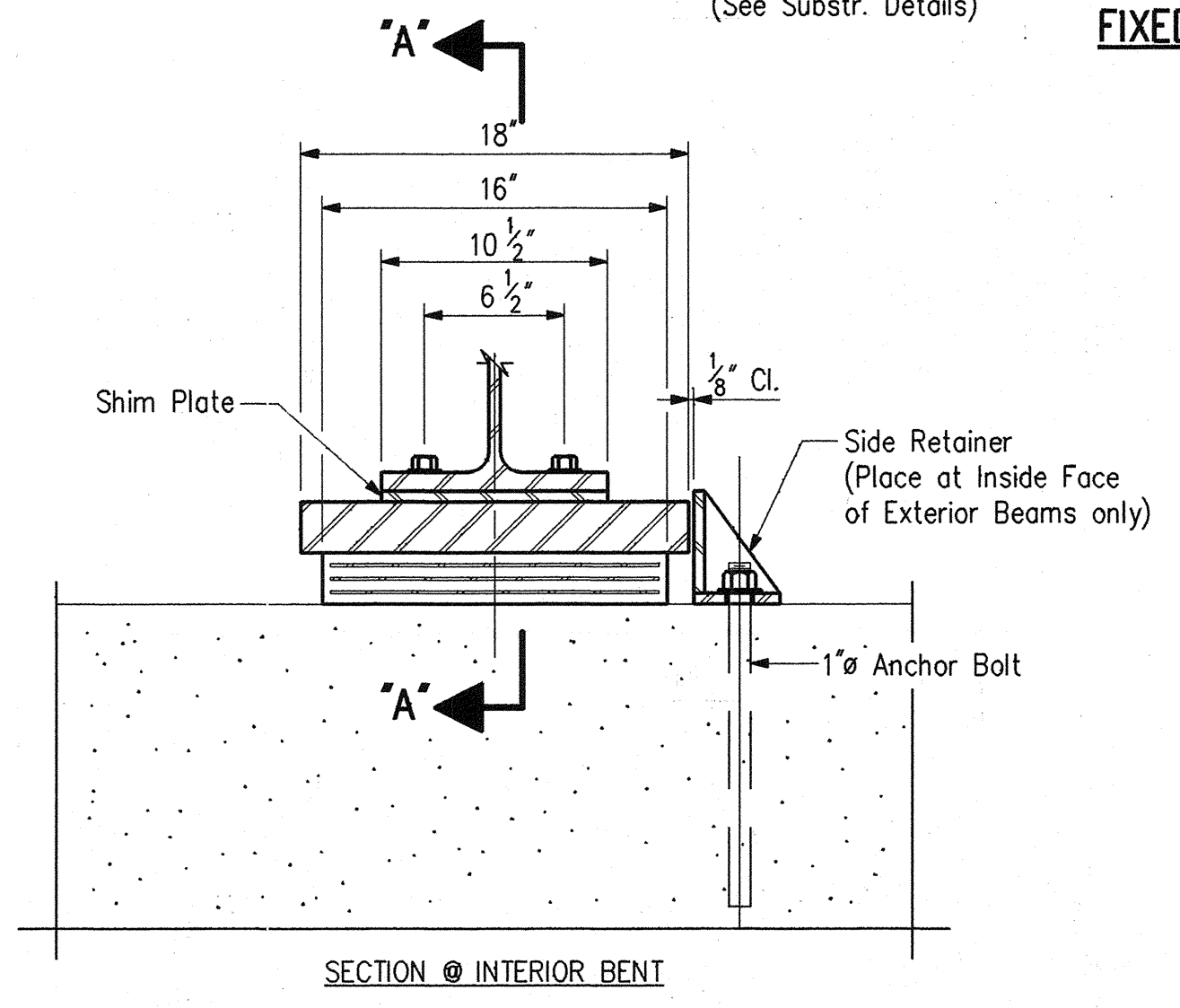
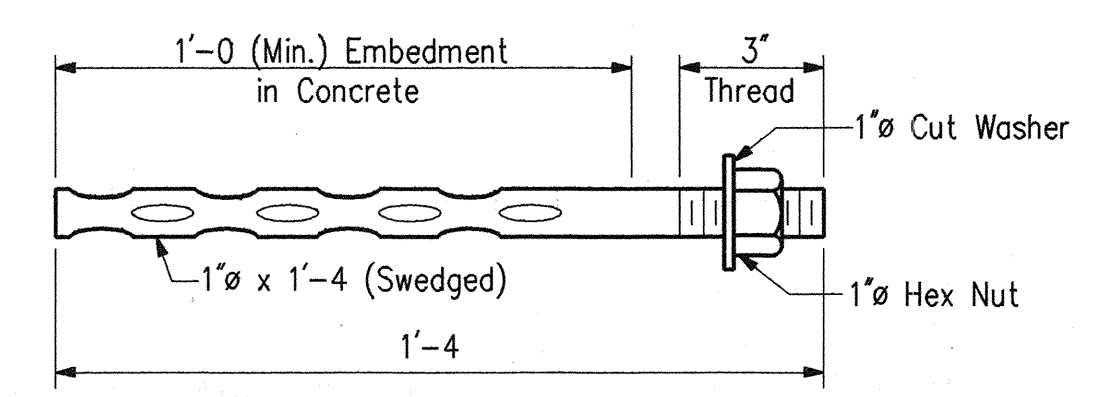
**SIDE RETAINER DETAIL**  
Bent No. 2 & No. 4 (4 Req'd.)



BEAM LINE	SPLICE A	SPLICE B	SPLICE C	SPLICE D	SPLICE E	SPLICE F
1	756.740	756.935	757.140	757.130	756.860	756.640
2	756.885	757.090	757.315	757.310	757.060	756.845
3	757.035	757.245	757.485	757.490	757.255	757.050
4	756.830	757.045	757.305	757.315	757.100	756.900
5	756.625	756.850	757.125	757.145	756.945	756.755



**NOTE:**  
The top of the beams are to be adjusted to the elevations given in the table before bolting field splice connections. The elevations have been calculated assuming all falsework has been removed.



**TYPE I ELASTOMERIC EXPANSION BEARING**  
(Bent No. 2 & No. 4) (10 Req'd.)  
Scale: 1/2" = 1'-0"

- NOTES:**
- All Structural Steel A36, unless otherwise noted.
  - All bearing assemblies require 1/2" shim.
  - For General Notes, see Dwg. D2.
  - For Structural Steel fabrication notes, see Special Provisions.
  - For additional steel details, see Dwg. D14.

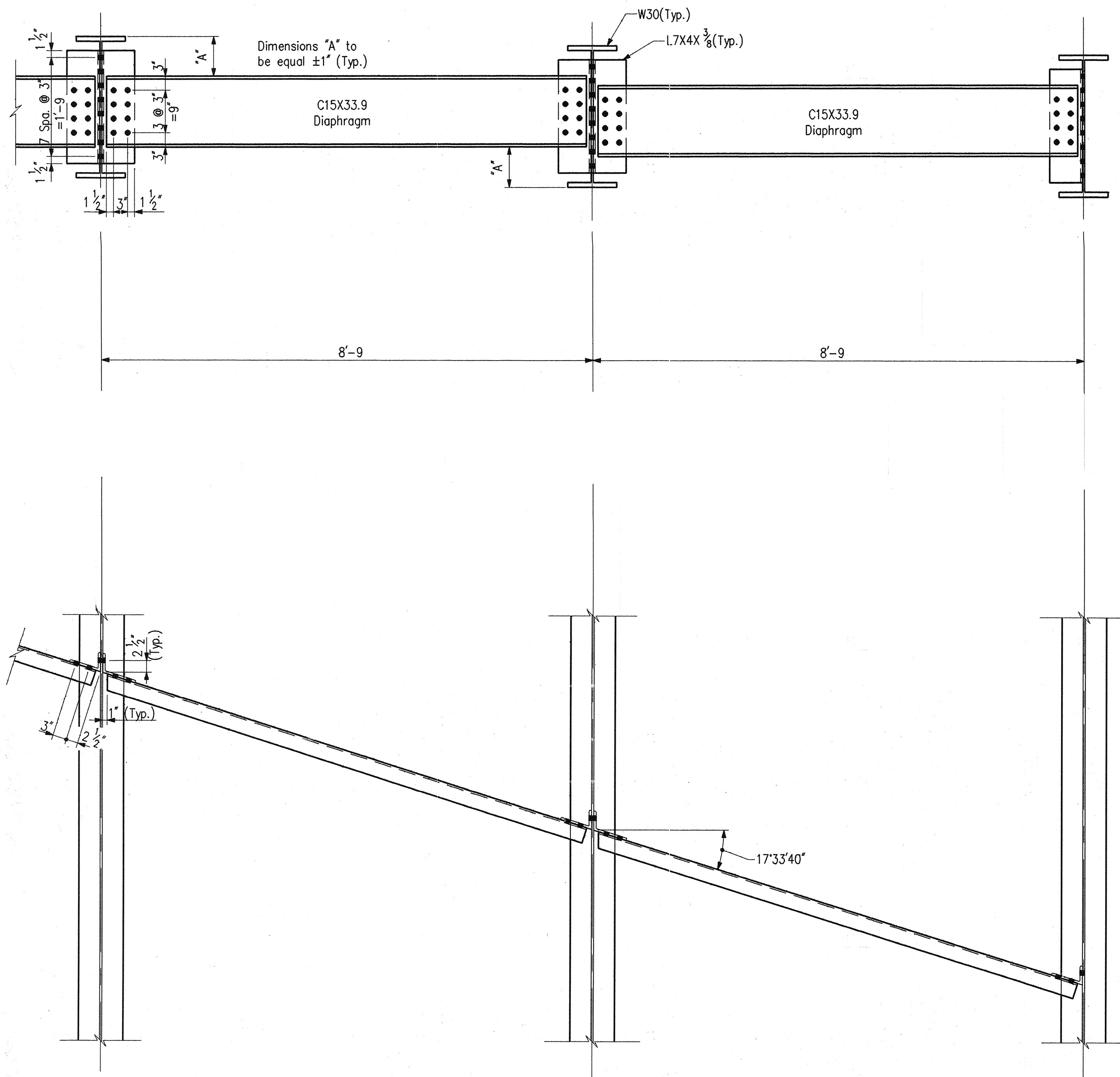
**INDIANA DEPARTMENT OF TRANSPORTATION**  
MARION COUNTY

SCALE: - 3" = 1'-0, Unless Otherwise Noted  
DATE: - December 7, 1994  
DRAWING: - D13 OF 17 SHEET: - 19 OF 67  
PROJECT: - NH/465-4(284)125 STATION: -  
BRIDGE CONTRACT NO. B-21773  
BRIDGE FILE: - I-465-127-5275

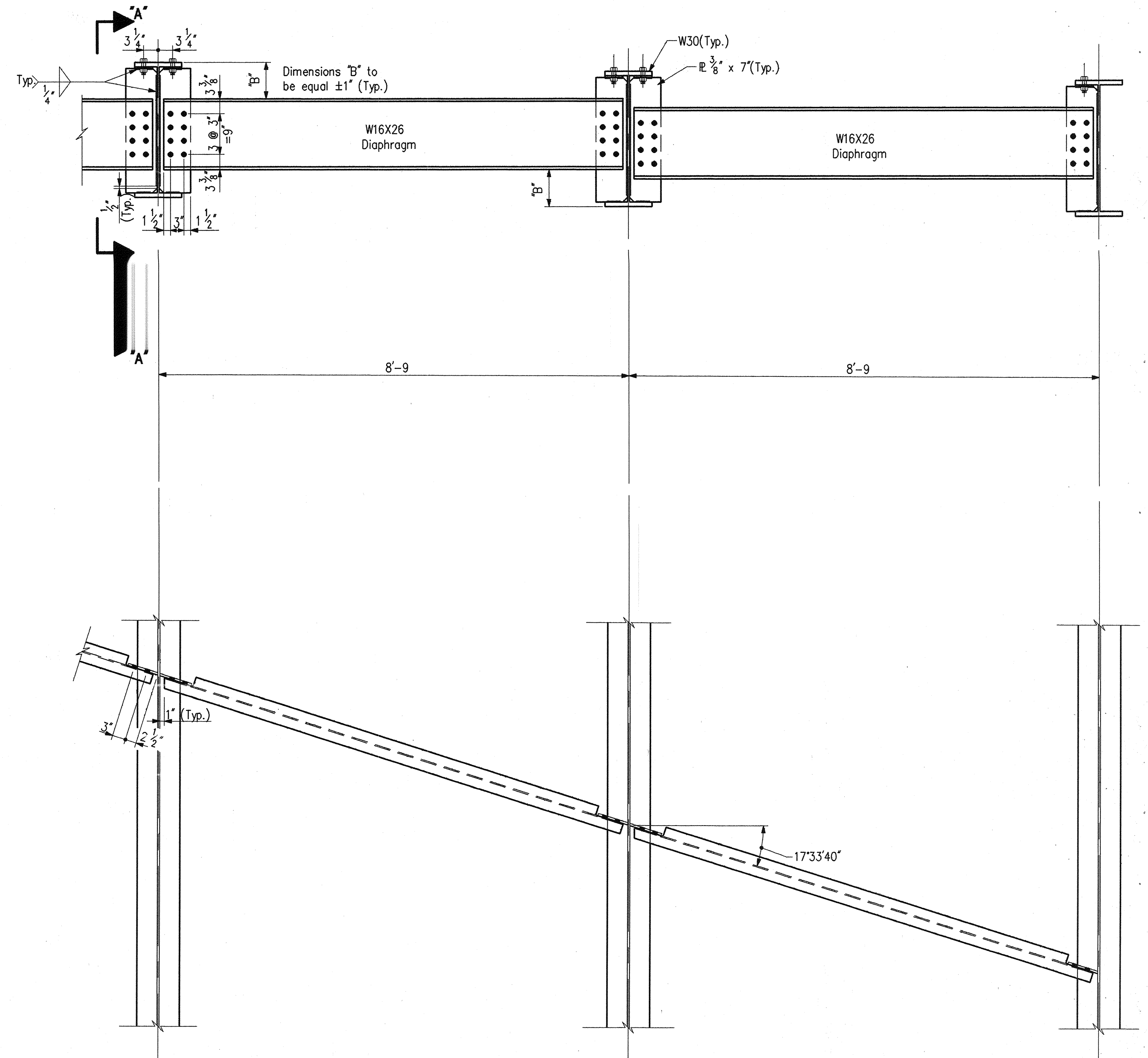


DESIGNED: DPJ C'K'D DRC  
DRAWN: DPJ C'K'D DRC  
TRACED: C'K'D

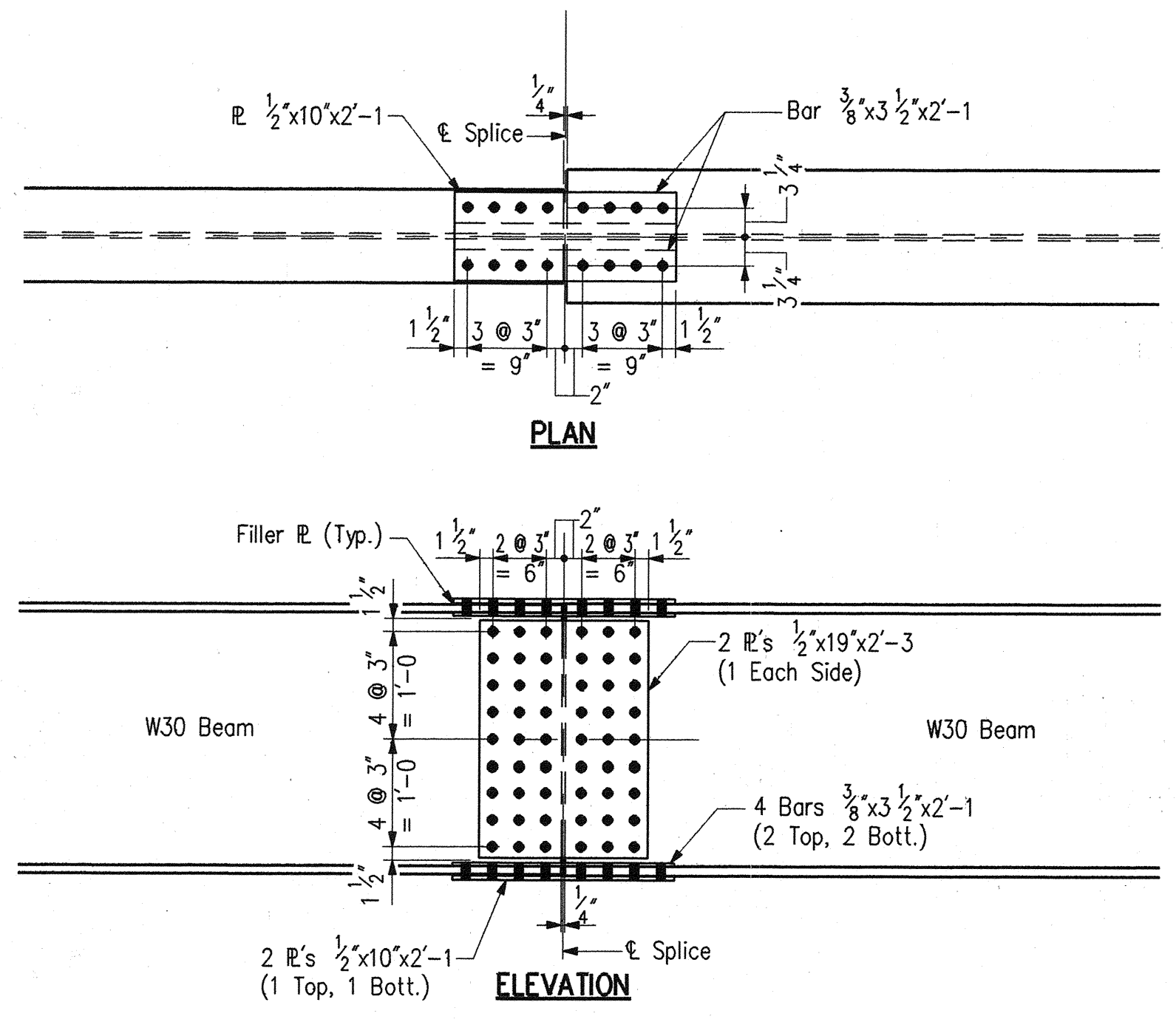




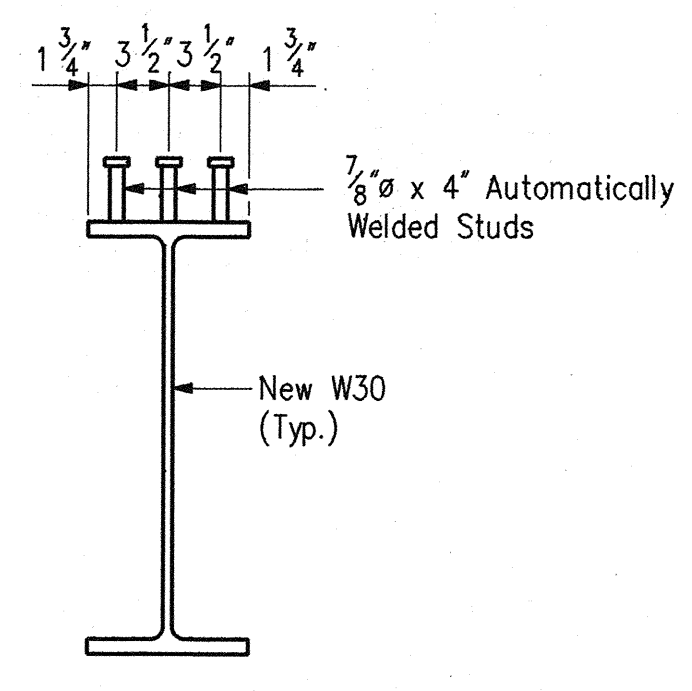
INTERIOR DIAPHRAGM DETAIL



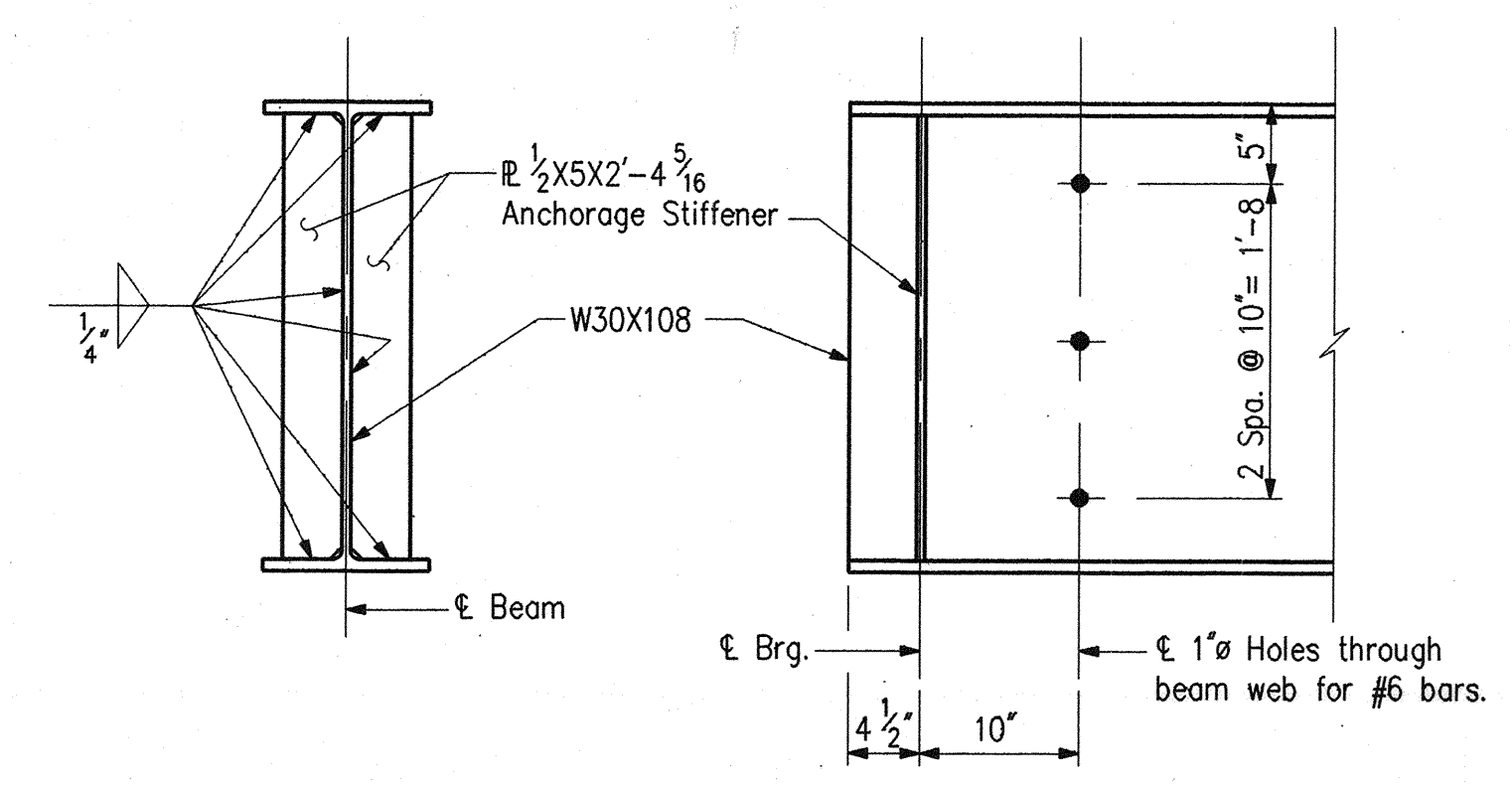
DIAPHRAGM DETAIL @ INTERIOR BENTS



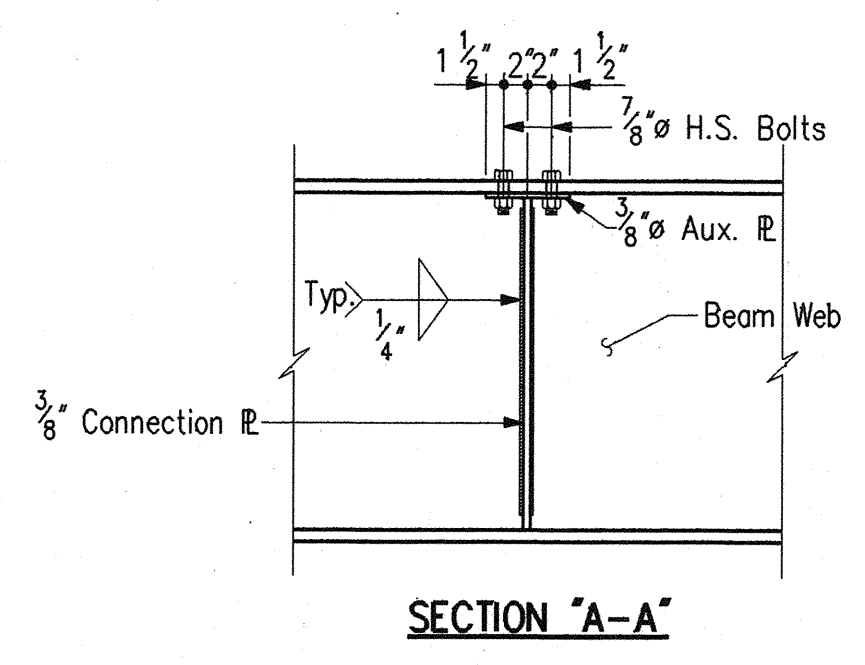
TYPICAL BEAM SPLICE DETAIL



SHEAR CONNECTOR DETAIL  
No Scale



ANCHORAGE STIFFENER DETAIL  
No Scale



SECTION "A-A"

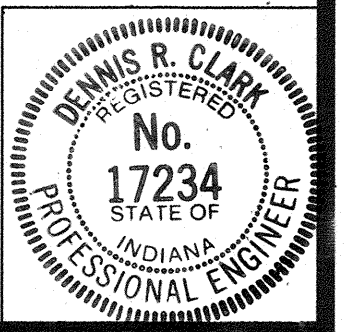
DESIGNED	dow	C'W'D	DRC
DRAWN	dow	C'W'D	DRC
TRACED		C'W'D	

NOTES:  
- For additional steel details, see Dwg. D13.  
- For General Notes, see Dwg. D2.

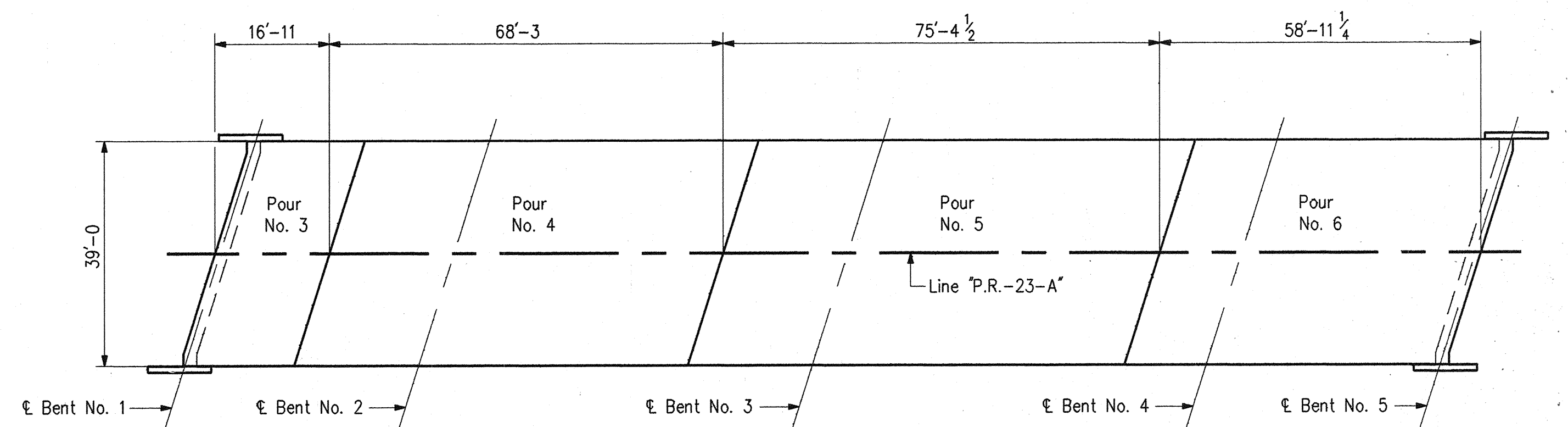
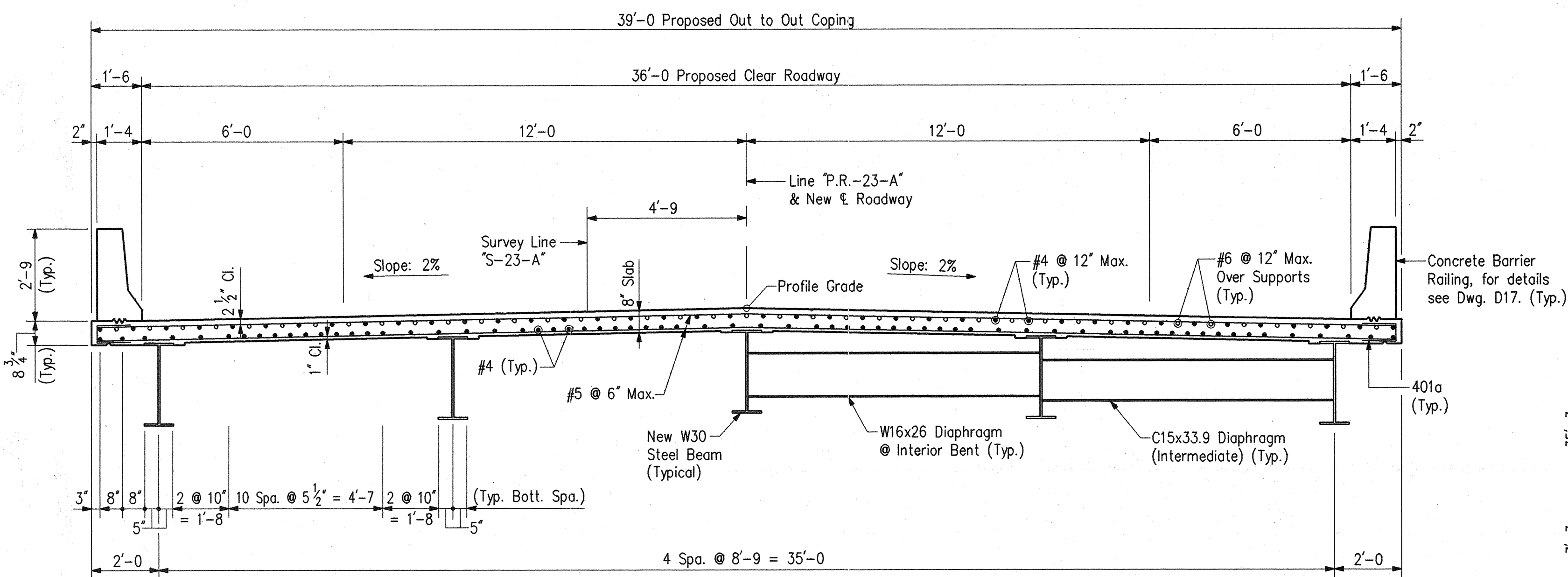
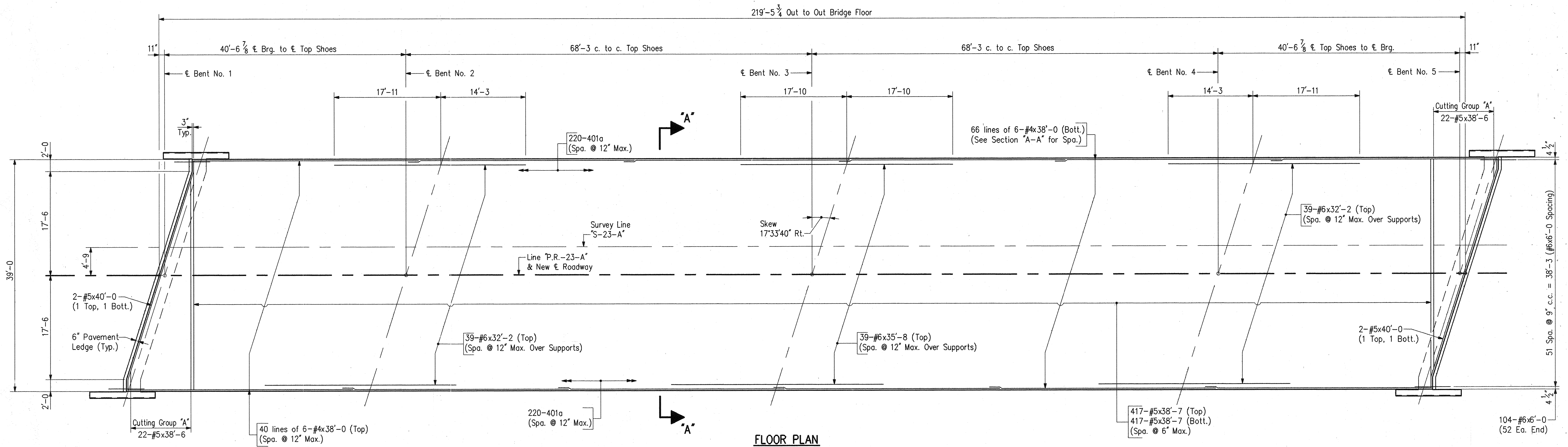
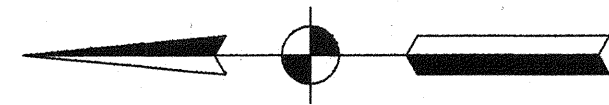
**STRUCTURAL STEEL DETAILS**  
**INDIANA DEPARTMENT OF TRANSPORTATION**  
**MARION COUNTY**

SCALE: - 3/4" = 1'-0", Unless otherwise noted  
 DATE: - December 7, 1994  
*Dennis R. Clark*

DRAWING: - D14 OF 17 SHEET: - 20 OF 67  
 PROJECT: - NH/465-4(284)125 STATION: -  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-5275# C





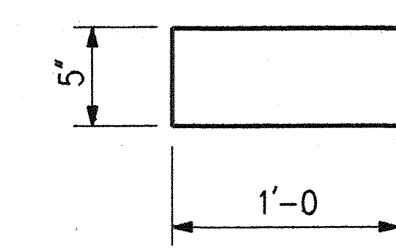
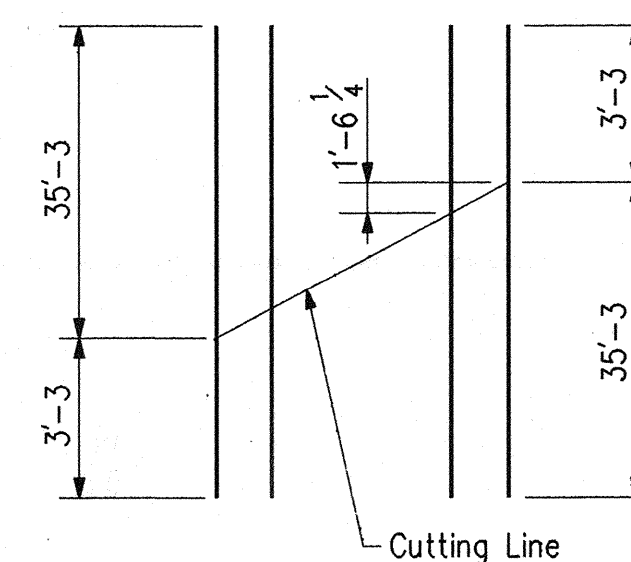


**NOTES:**

- For Reinforcing Notes and Bar Bending Details, See Bridge Std. C1.
- Min. Lap for #4 Bar = 1'-7.
- For General Notes, see Dwg. D2.
- For Bill of Materials, see Dwg. D7.
- Screed Data available upon request.
- Permanent metal deck forms may be substituted for removable forms on this structure.
- Sequence of pours to be made in order of pour numbers.

**NOTE:**

For Pour No. 1 and No. 2, see Dwg. D4 & D6.



**FLOOR DETAILS**

**INDIANA DEPARTMENT OF TRANSPORTATION**  
MARION COUNTY

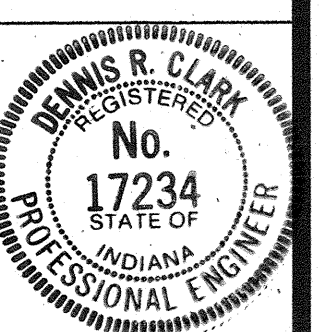
SCALE: - 1/8" = 1'-0 Unless Otherwise Noted

DATE: - December 7,

1994

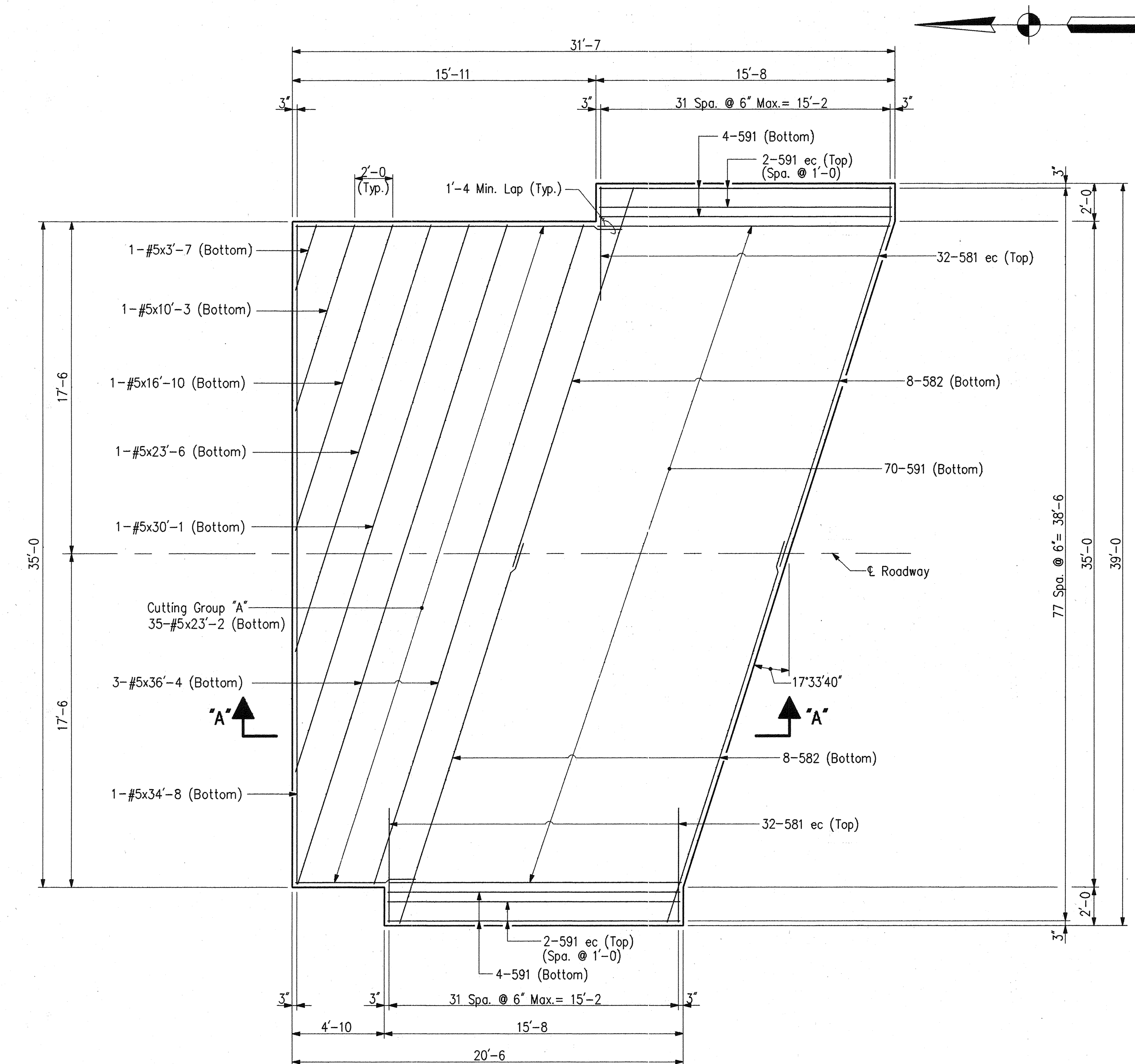
*Dennis R. Clark*

DRAWING: - D15 OF 17 SHEET: - 21 OF 67  
PROJECT: - NH/465-4(284)125 STATION: - x  
BRIDGE CONTRACT NO. B-21773  
BRIDGE FILE: - I-465-127-5275/ C

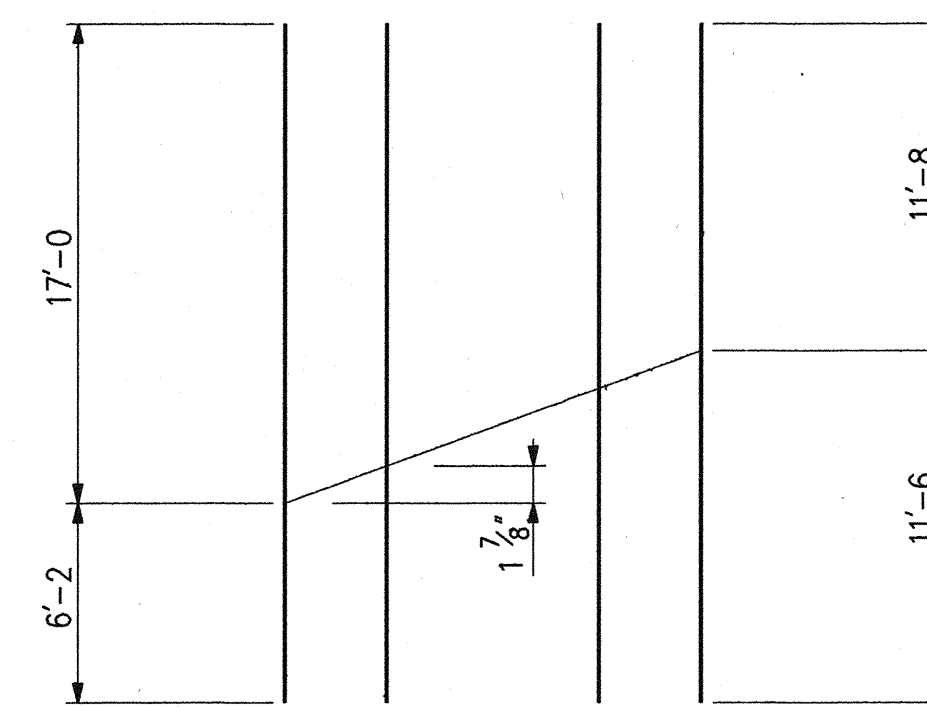


DESIGNED: DPJ	C'K'D: DRC
DRAWN: PCR	C'K'D: DRC
TRACED: C'K'D	

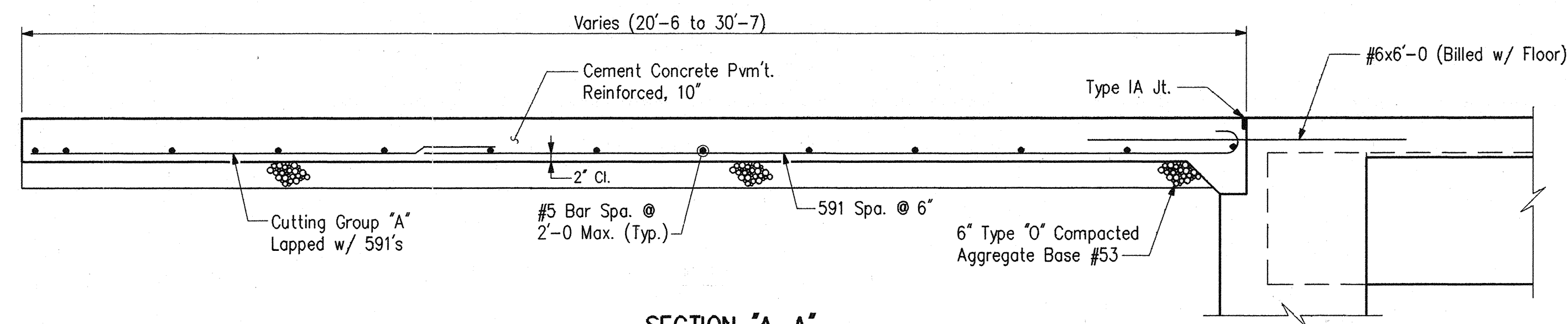
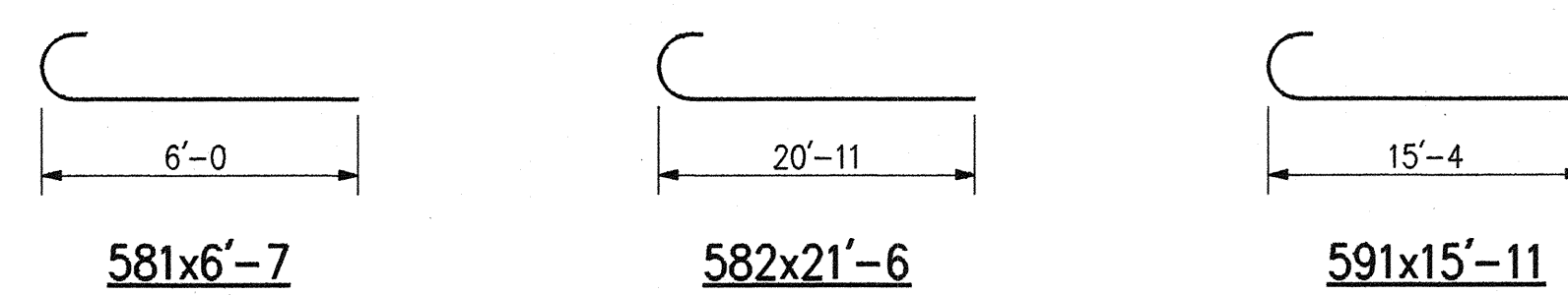




**PLAN**  
North Approach Shown  
South Approach Same by 180° Rotation



**CUTTING GROUP "A"**  
35-#5x23'-2  
34 Spa. @ 6" = 17'-0"



**\* BILL OF MATERIALS**

REINFORCING STEEL			
SIZE & MARK	No. OF BARS	LENGTH	WEIGHT (LBS.)
EPOXY COATED REINFORCING			
591	4	15'-11"	
581	64	6'-7"	
TOTAL #5 BARS			506
TOTAL EPOXY REINF.			506
PLAIN REINFORCING			
591	78	15'-11"	
582	16	21'-6"	
#5	3	36'-4"	
#5	1	34'-8"	
#5	1	30'-1"	
#5	1	23'-6"	
#5	35	23'-2"	
#5	1	16'-10"	
#5	1	10'-3"	
#5	1	3'-7"	
TOTAL #5 BARS			2737
TOTAL PLAIN REINF.			2737
CONCRETE			
Cement Concrete Pavement, Reinf., 10"			108 Sys.
MISCELLANEOUS			
Removal of Pavement			69 Sys.
Compacted Agg. Base, Type "O", No. 53			18 Tons

\*Quantities Shown are for one approach slab, two (2) req'd.

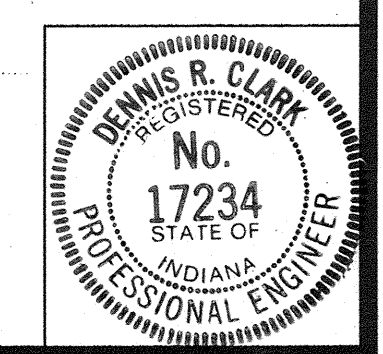
**NOTES:**

- For Reinforcing Bar Notes and Bar Bending Details, See Bridge Standard C1.
- ec Indicates Epoxy Coated Reinforcing.

**R.C. BRIDGE APPROACH DETAILS**  
**INDIANA DEPARTMENT OF TRANSPORTATION**  
MARION COUNTY

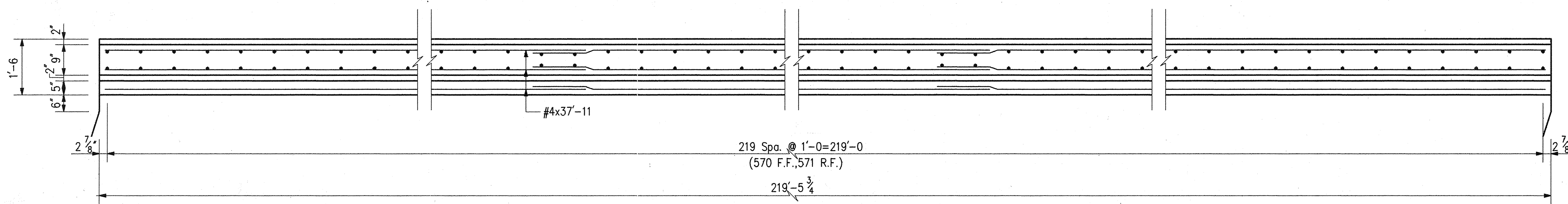
SCALE: - 1/4" = 1'-0 Unless Otherwise Noted  
DATE: - December 7, 1994  
DRAWING: - D16 OF 17 SHEET: - 22 OF 67  
PROJECT: - NH/465-4(284)125 STATION: - x  
BRIDGE CONTRACT NO. B-21773  
BRIDGE FILE: - I-465-127-5275 C

*Dennis R. Clark*

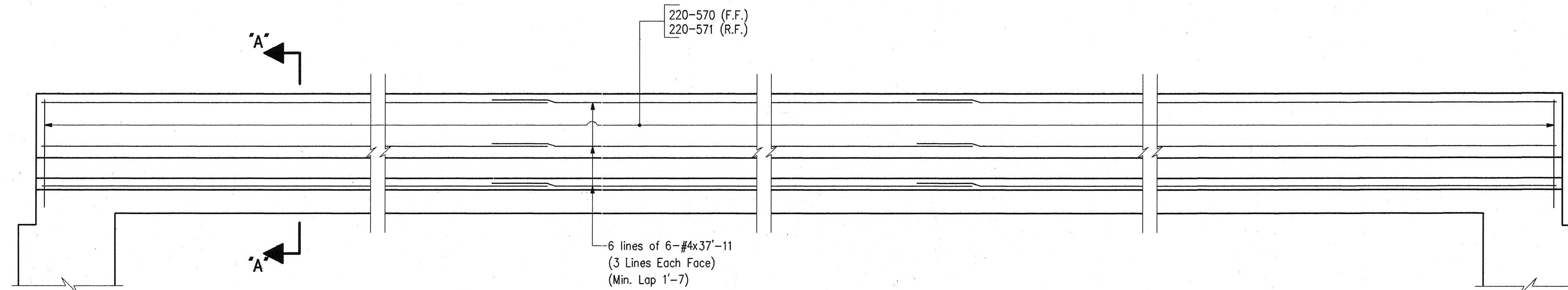


DESIGNED:	DPJ	CKD	PCR
DRAWN:	DPJ	CKD	PCR
TRACED:		CKD	

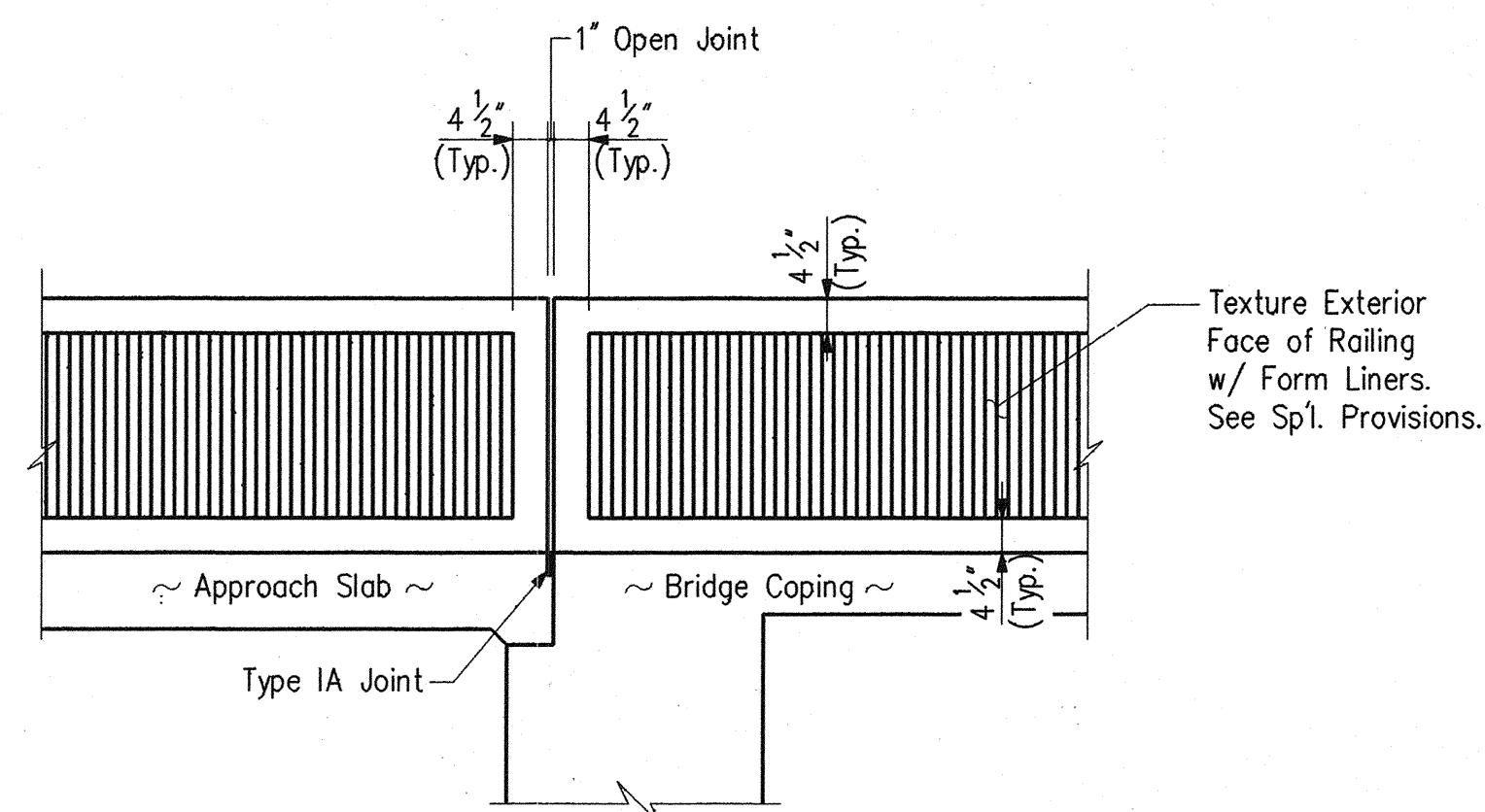




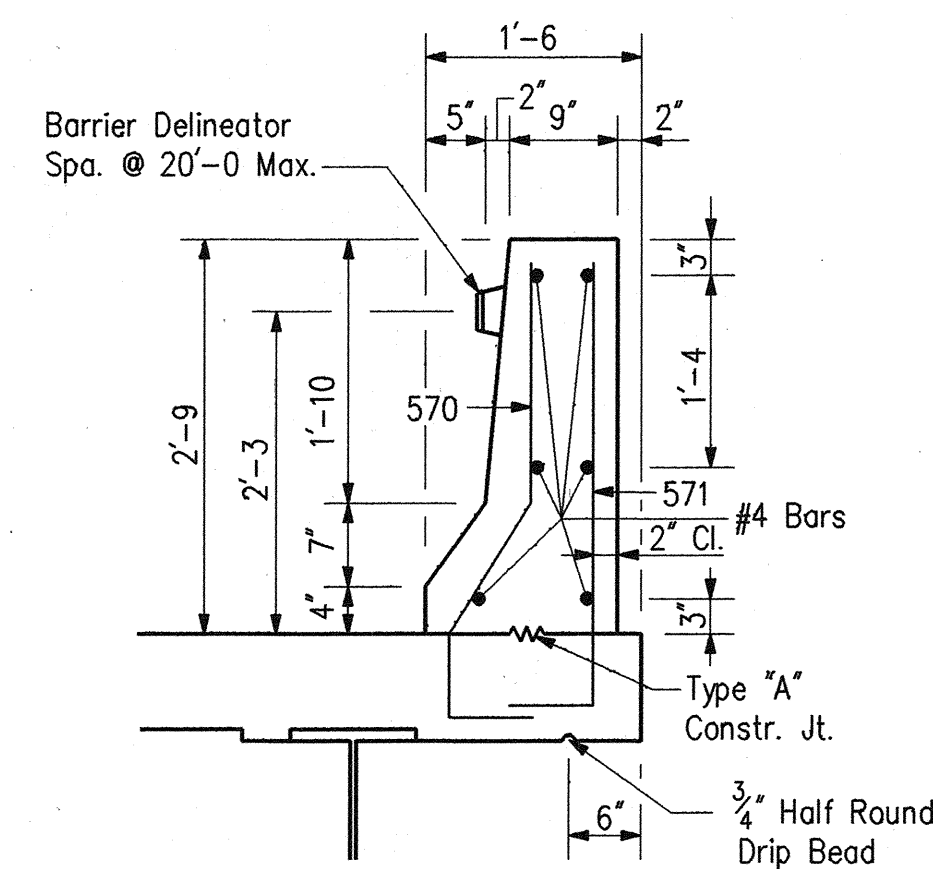
PLAN



ELEVATION

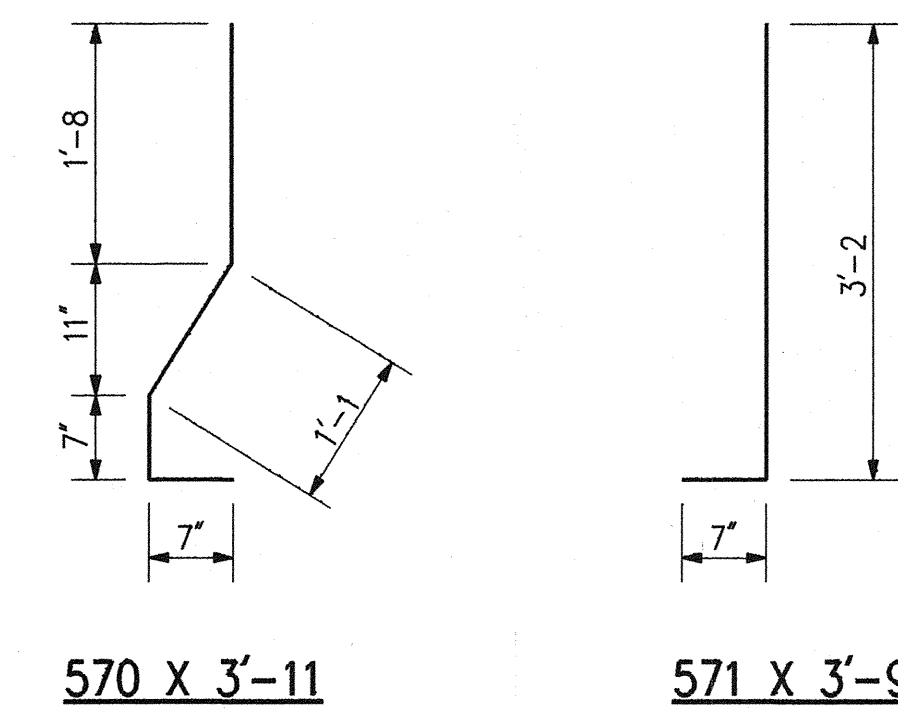


RAILING TEXTURE DETAIL



SECTION "A-A"

Scale: 3/4"=1'-0



570 X 3'-11

571 X 3'-9

\*BILL OF MATERIALS

REINFORCING STEEL			
SIZE & MARK	No. OF BARS	LENGTH	WEIGHT (LBS.)
EPOXY COATED REINFORCING			
571	220	3'-9"	
570	220	3'-11"	
TOTAL #5 BARS			1759
#4	36	37'-11"	
TOTAL #4 BARS			912
TOTAL EPOXY REINF.			2671
CONCRETE			
TOTAL CONCRETE RAILING, CLASS "C"			21.4 CYS.
MISCELLANEOUS			
Barrier Delineators			12 Each
Surface Seal			1499 Sft.
Masonry Coating			1499 Sft.
Concrete Bridge Railing Transition, Type TGB			2 Each

\*Quantities for one rail only, two (2) req'd.

NOTES:

- For Reinforcing Bar Notes and Bar Bending Details, See Bridge Std. C1.
- For Transition Details, See Br. Std. BR-1.
- For Constr. Jt. Type "A" Details, See Bridge Std. C3.
- For General Notes, see Dwg. D2.

CONCRETE RAILING DETAILS

INDIANA DEPARTMENT OF TRANSPORTATION

MARION COUNTY

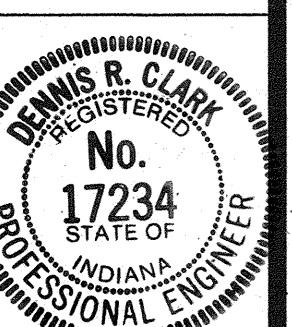
SCALE: - 1/2" = 1'-0, Unless otherwise noted

DATE: - December 7,

1994

*Dennis P. Clark*

DRAWING: D17 OF 17 SHEET: 23 OF 67  
 PROJECT: - NH/465-4(284)125 STATION: -  
 BRIDGE CONTRACT NO. B-21773  
 BRIDGE FILE: - I-465-127-5275# C



DESIGNED:	DPJ	C'K'D.	PCR
DRAWN:	DPJ	C'K'D.	PCR
TRACED:		C'K'D.	



