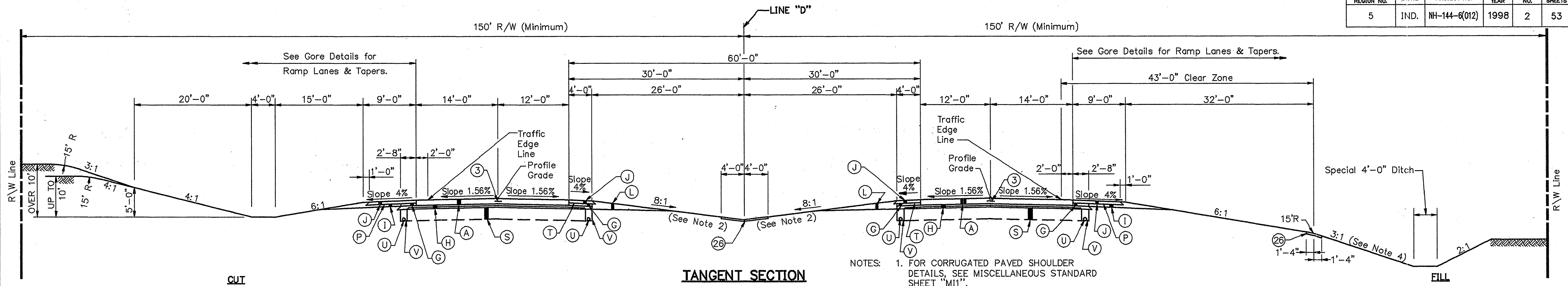
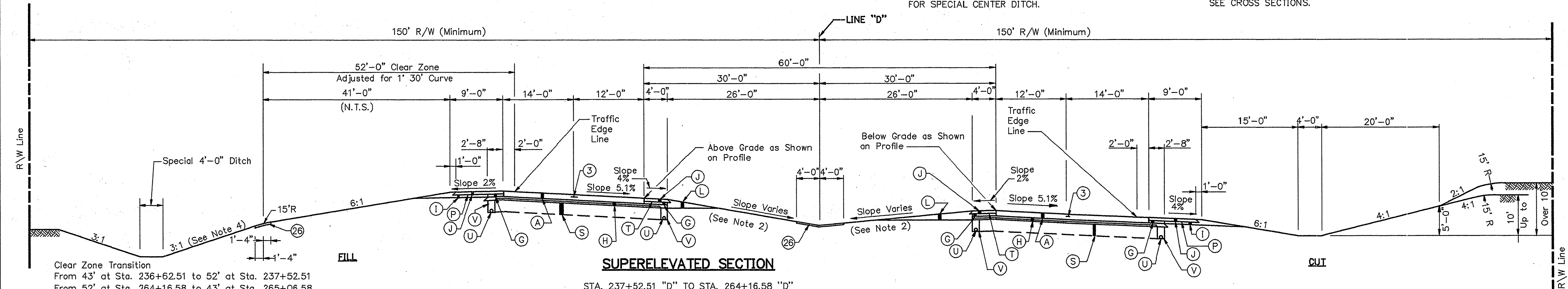


FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	NH-144-6(012)	1998	2	53



TANGENT SECTION
 STA. 234+13.61 "D" TO STA. 237+52.51 "D"
 STA. 264+16.58 "D" TO STA. 372+50.00 "D"

- NOTES:
1. FOR CORRUGATED PAVED SHOULDER DETAILS, SEE MISCELLANEOUS STANDARD SHEET "M11".
 2. ON SHOULDER, PERFORMANCE GRADED BINDER 58-28 TO BE USED.
 3. MINIMUM SLOPE 1" PER FT., MAXIMUM SLOPE 2" PER FT., FOR SPECIAL CENTER DITCH.
 4. WHEN FILL HEIGHT EXCEEDS 30', USE 2:1 SLOPE. SEE CROSS SECTIONS.

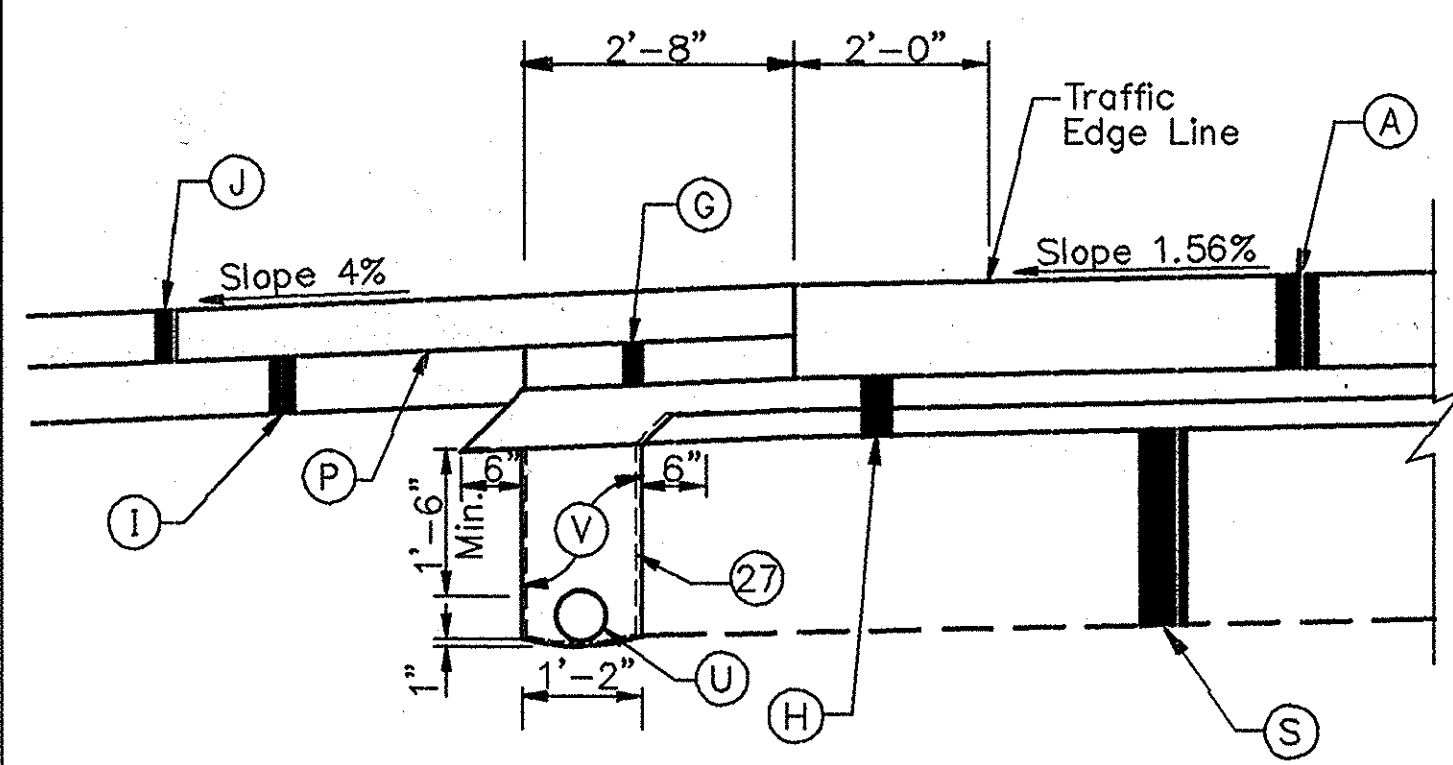


SUPERELEVATED SECTION
 STA. 237+52.51 "D" TO STA. 264+16.58 "D"

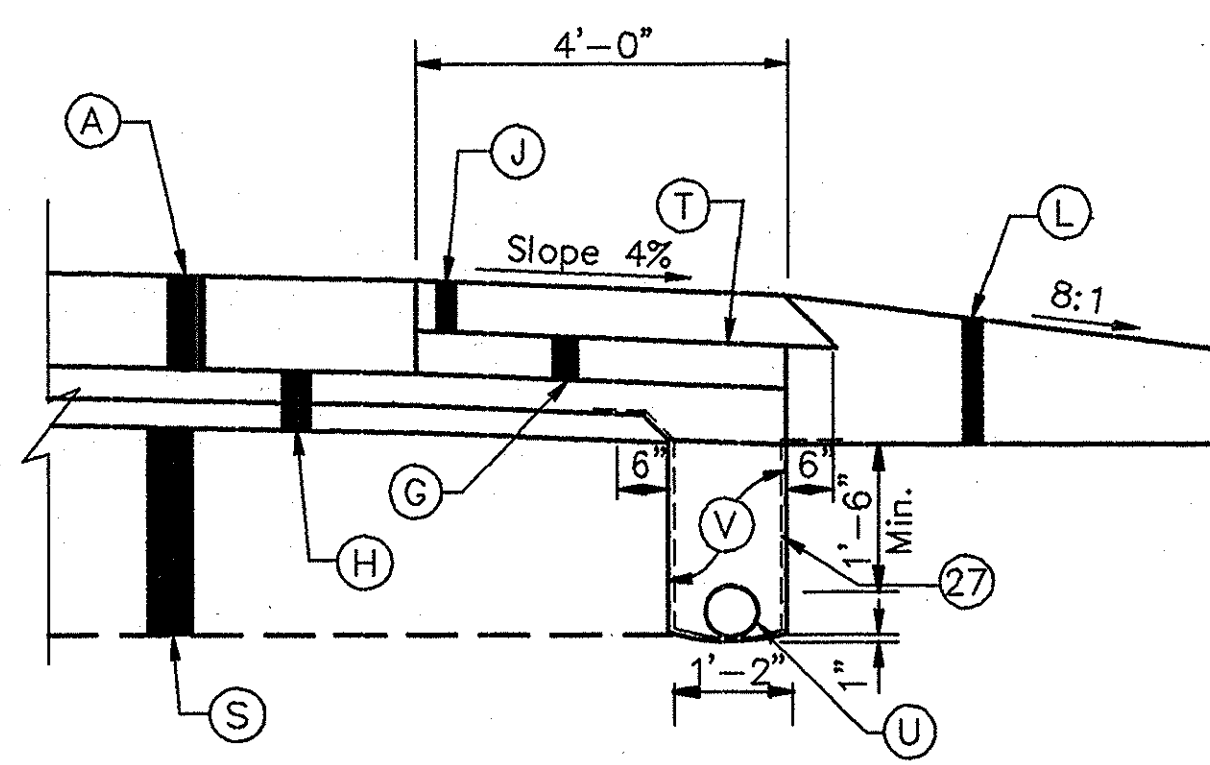
Clear Zone Transition
 From 43' at Sta. 236+62.51 to 52' at Sta. 237+52.51
 From 52' at Sta. 264+16.58 to 43' at Sta. 265+06.58

LEGEND

- (A) Cement Concrete Pavement, Plain, 11"
- (G) 550#/Syd. QC/QA HMA Base 25.0mm, Shoulder
- (H) Subbase for Cement Concrete Pavement
4" Course Aggregate #8 on
3" Compacted Aggregate for Base, Type "O",
Size No. 53
- (I) Compacted Aggregate Shoulder
6" Compacted Aggregate for Base, Type "O",
Size No. 53
- (J) Corrugated Paved Shoulder
165#/Syd. QC/QA HMA Surface 9.5mm, Shoulder on
495#/Syd. QC/QA HMA Base 25.0mm, Shoulder
- (L) Compacted Aggregate Wedge, Type O,
Size No. 53
- (P) Prime Coat (0.00146 Tons/Syd.)
- (S) 24" Special Subgrade Treatment
(6" Compacted in place)
- (T) Tack Coat (0.000252 Tons/Syd.)
- (U) Pipe, Group "K" for Underdrain
- (V) Aggregate for Underdrain
- (3) Longitudinal Joint with Dowel
- (26) Sodding, Nursery
- (27) Geotextile for Underdrain



UNDERDRAIN DETAIL - OUTSIDE SHOULDER



UNDERDRAIN DETAIL - MEDIAN SHOULDER

Scale: 1/2" = 1'-0"

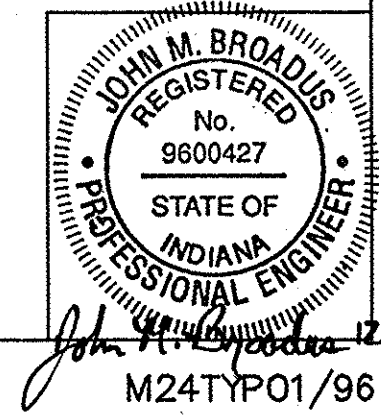
U. S. 24

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

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

FOR INFORMATION ONLY



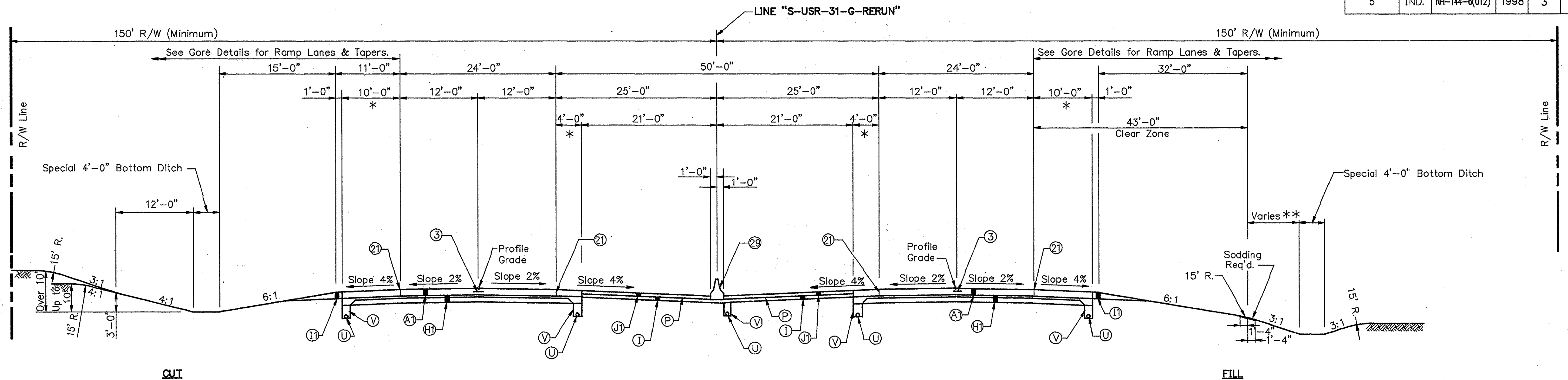
R-23637

M24TYP01/96

PLOT DATE & TIME: DEC. 18, 1997 - 11:06:01

DESIGNED: J.S. 12/92, CHECKED: B.D.S. 2/94
 DRAWN: P.K.A. 12/92, CHECKED: B.D.S. 2/94
 REVISION: S.W. 12/97, CHECKED: B.D.S. 12/97

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	NH-144-6(012)	1998	3	53

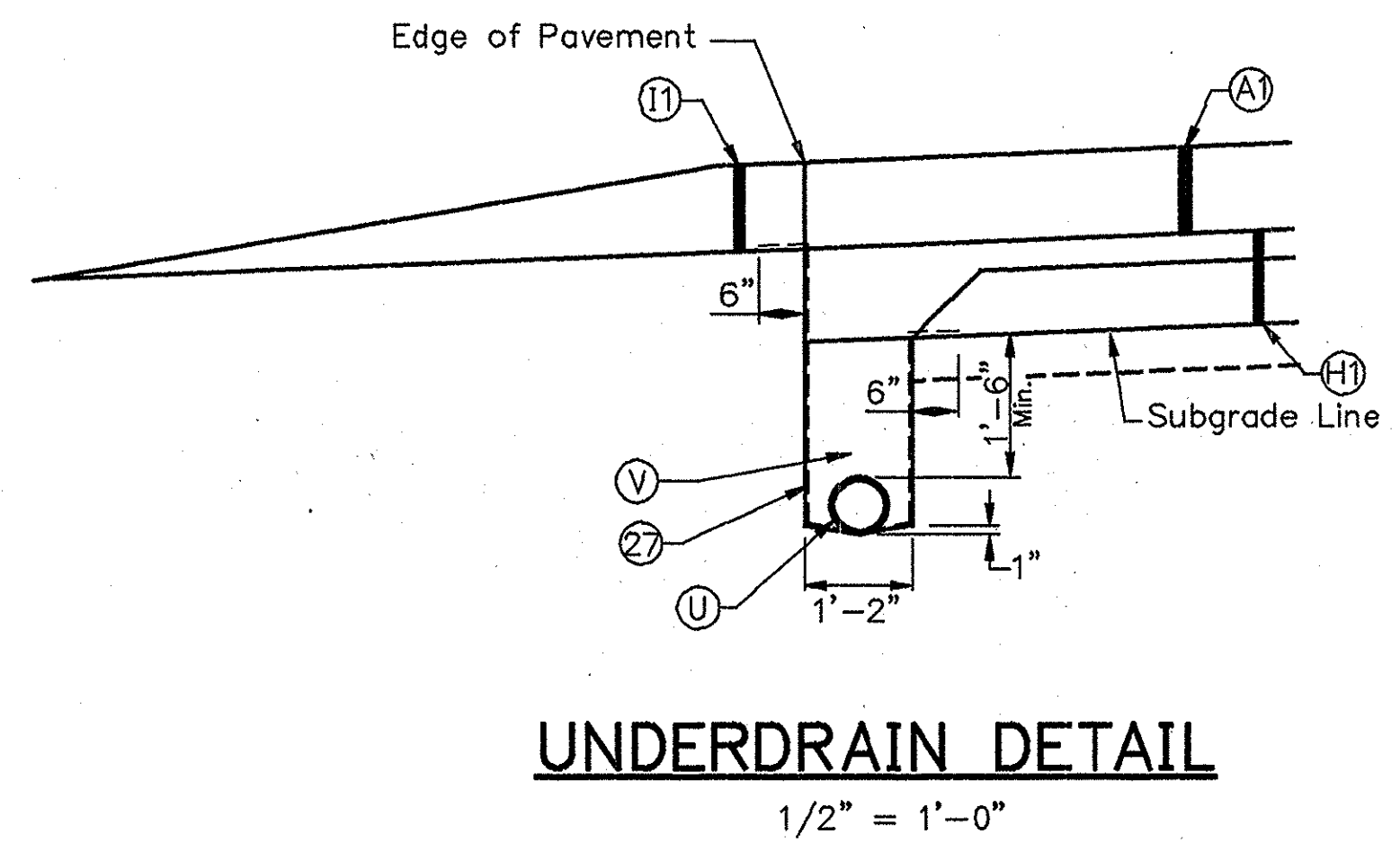
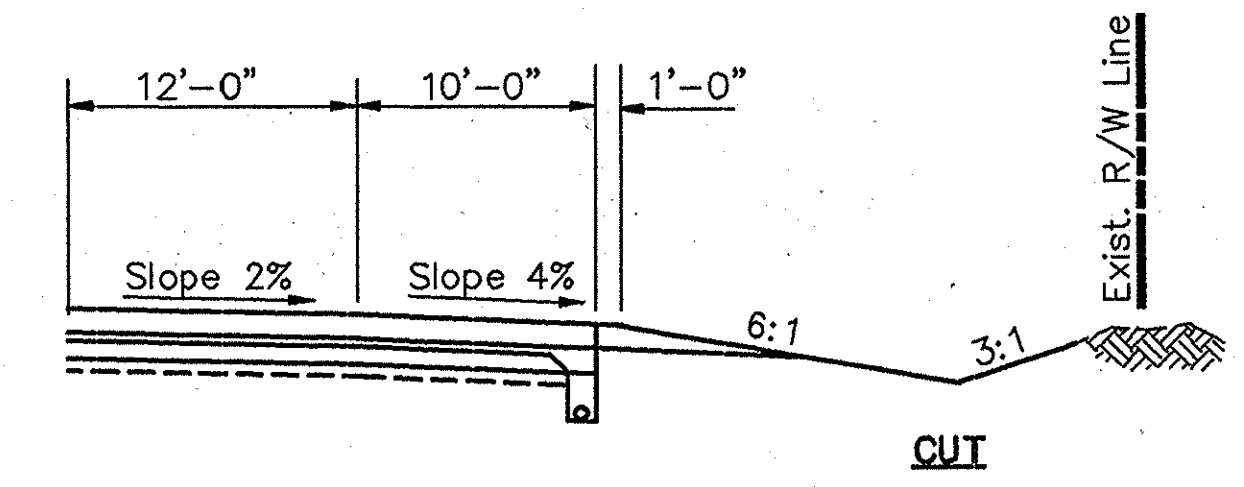
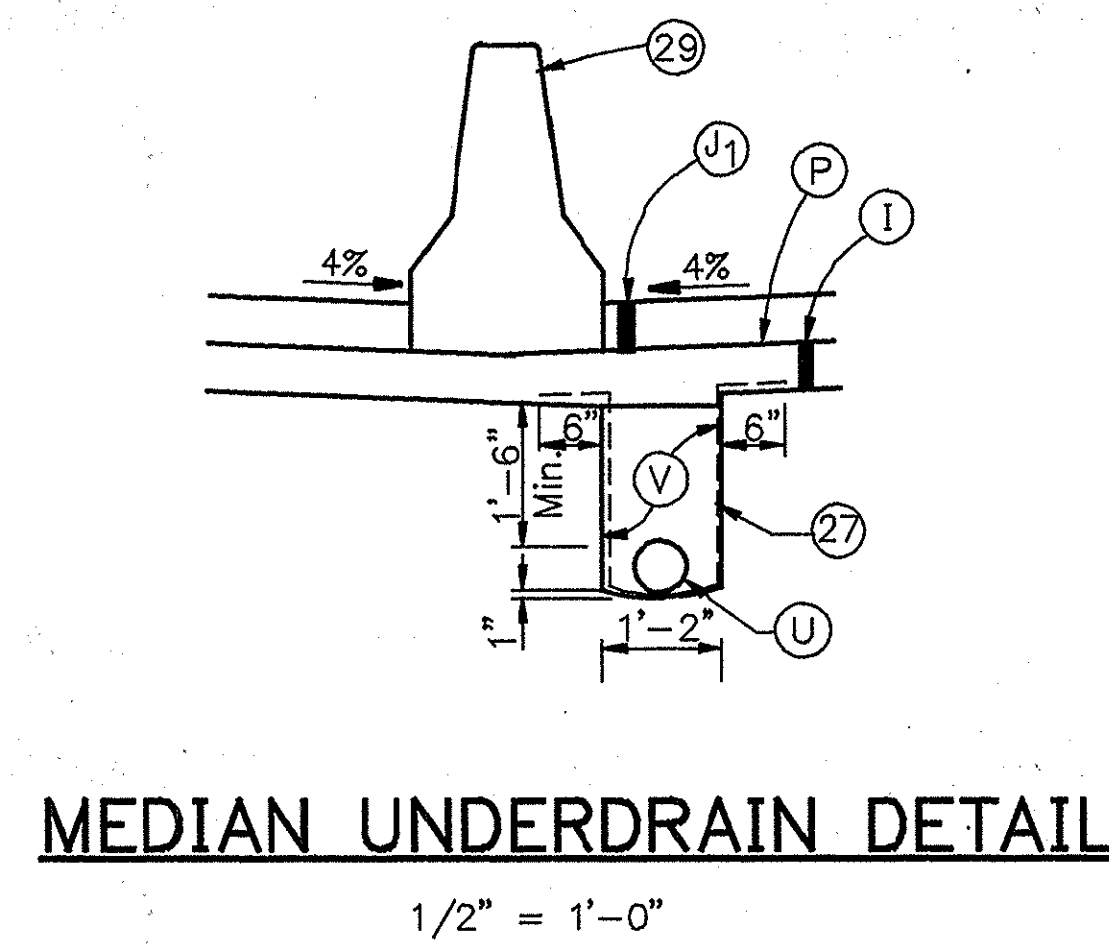


TANGENT SECTION AND CURVES OF 0° 29.99' OR LESS

Sta. 166+20.00 to 225+00.00 "S-USR-31-G-RERUN"

LEGEND

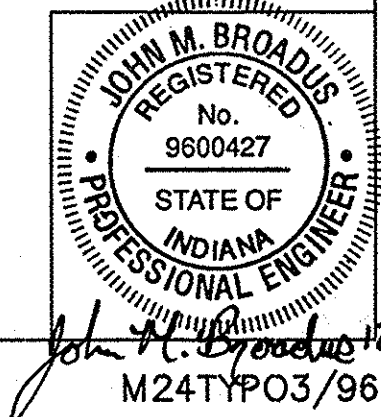
- (A1) Cement Concrete Pavement, Plain, 12"
- (H1) Subbase for Cement Concrete Pavement
4" Coarse Aggregate #8 on
9" Compacted Aggregate for Base, Type "O",
Size No. 53
- (I) Compacted Aggregate Shoulder
6" Compacted Aggregate for Base, Type "O",
Size No. 53
- (11) Compacted Aggregate Shoulder
12" Compacted Aggregate for Base, Type "O",
Size No. 53
- (J1) Paved Shoulder
660#/Syd. QC/QA HMA Base 25.0mm, Shoulder
with Seal Coat, Type 2
- (P) Prime Coat (0.00146 Tons/Syd.)
- (U) Pipe, Group "K" for Underdrain
- (V) Aggregate for Underdrain
- (3) Longitudinal Joint with Dowel
- (21) Longitudinal Construction Joint
- (27) Geotextile for Underdrain
- (29) Concrete Median Barrier
- * Corrugated Concrete Shoulder
- ** See Cross Sections



FOR INFORMATION ONLY

U. S. 31
INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTIONS

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



R-23637

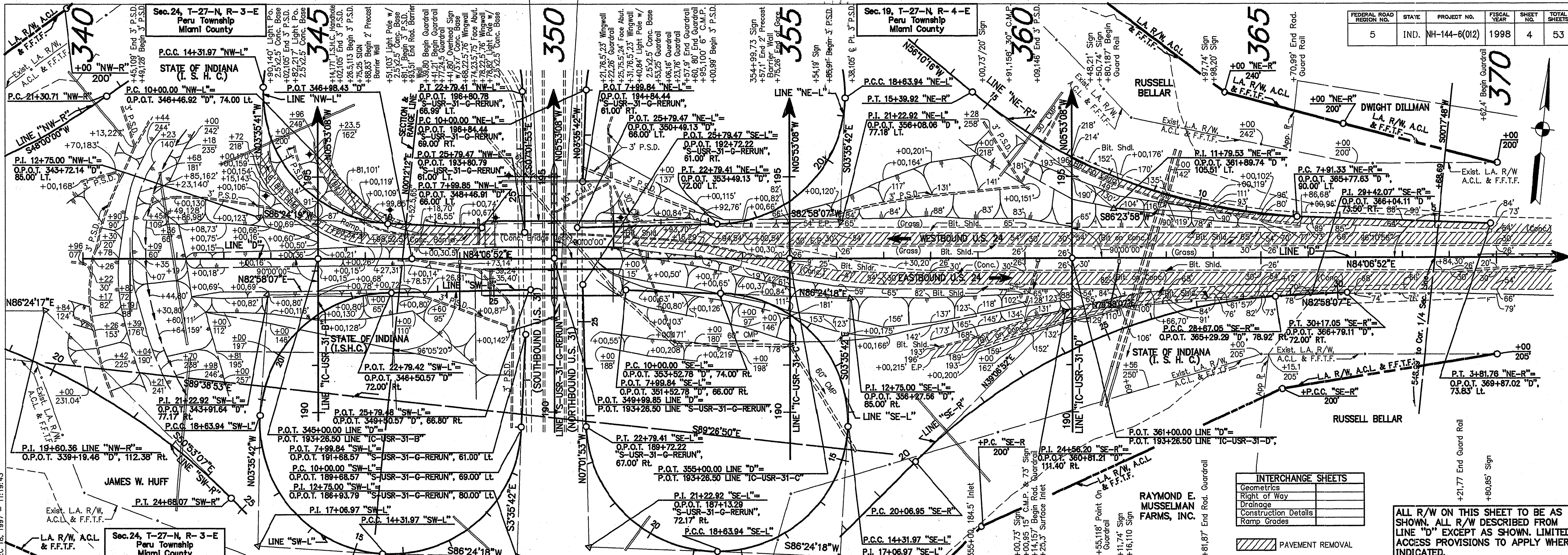
SHEET REVISED: JULY 20, 1992
 SHEET NO. 3 OF 3
 PROJECT: NH-144-6(012)
 DRAWN: J.M.B./J.L.G.
 CHECKED: J.M.B./J.L.G.
 DATE: 12/97
 PLOT DATE & TIME: DEC 18, 1997 - 11:02:09

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	NH-144-6(012)	1998	4	53

PLAN
 DATE: 11/19/93
 DRAWN BY: J. W. HUFF
 CHECKED BY: R. E. MUSSELMAN
 IN CHARGE: R. E. MUSSELMAN

PLOT DATE & TIME: DEC 18, 1997 - 11:19:43

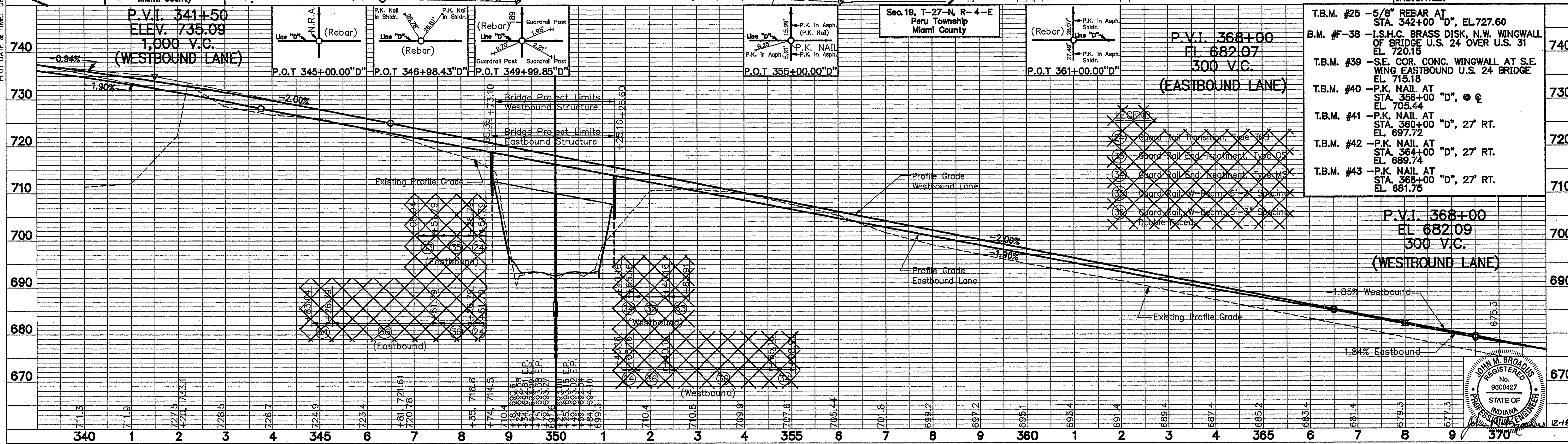
PROFILE
 DATE: 11/19/93
 DRAWN BY: J. W. HUFF
 CHECKED BY: R. E. MUSSELMAN
 IN CHARGE: R. E. MUSSELMAN



INTERCHANGE SHEETS

Geometrics	
Right of Way	
Drainage	
Construction Details	
Ramp Grades	

ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "D" EXCEPT AS SHOWN. LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.



T.B.M. #25	-5/8" REBAR AT STA. 342+00 "D", EL. 727.60	740
B.M. #F-38	-I.S.H.C. BRASS DISK, N.W. WINGWALL OF BRIDGE U.S. 24 OVER U.S. 31 EL. 720.15	740
T.B.M. #39	-S.E. COR. CONC. WINGWALL AT S.E. WING EASTBOUND U.S. 24 BRIDGE EL. 715.18	730
T.B.M. #40	-P.K. NAIL AT STA. 356+00 "D", @ C	730
T.B.M. #41	-P.K. NAIL AT STA. 360+00 "D", 27' RT. EL. 697.72	720
T.B.M. #42	-P.K. NAIL AT STA. 364+00 "D", 27' RT. EL. 689.74	710
T.B.M. #43	-P.K. NAIL AT STA. 368+00 "D", 27' RT. EL. 681.75	710

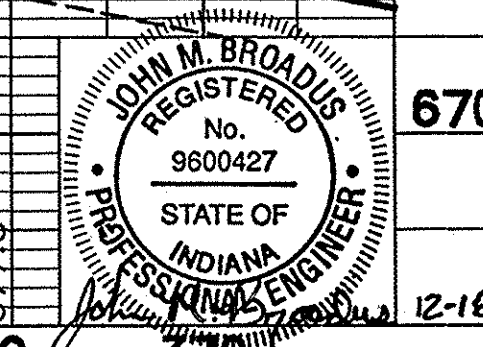


PLATE 1 - PLAN - PROFILE B. R. R. STANDARD 1975

R-23637

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
NH-144-6(012)	"D"	4	53	

FOR INFORMATION ONLY

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	NH-144-6(012)	1998	5	53

Sec. 24, T-27-N, R-3-E
Peru Township
Miami County

STR. NO. 77
Inlet Type H-5 w/100 Lft. of 15" Pipe and 1 Pipe End Section Req'd.

STR. NO. 84
400' of 4' x 2' Box Culvert Req'd. (200' Twin Structures)

STR. NO. 86
495' of 4' x 2' Box Culvert Req'd. (Double Structure)

Sec. 19, T-27-N, R-4-E
Peru Township
Miami County

Sec. 19, T-27-N, R-4-E
Peru Township
Miami County

Sec. 19, T-27-N, R-4-E
Peru Township
Miami County

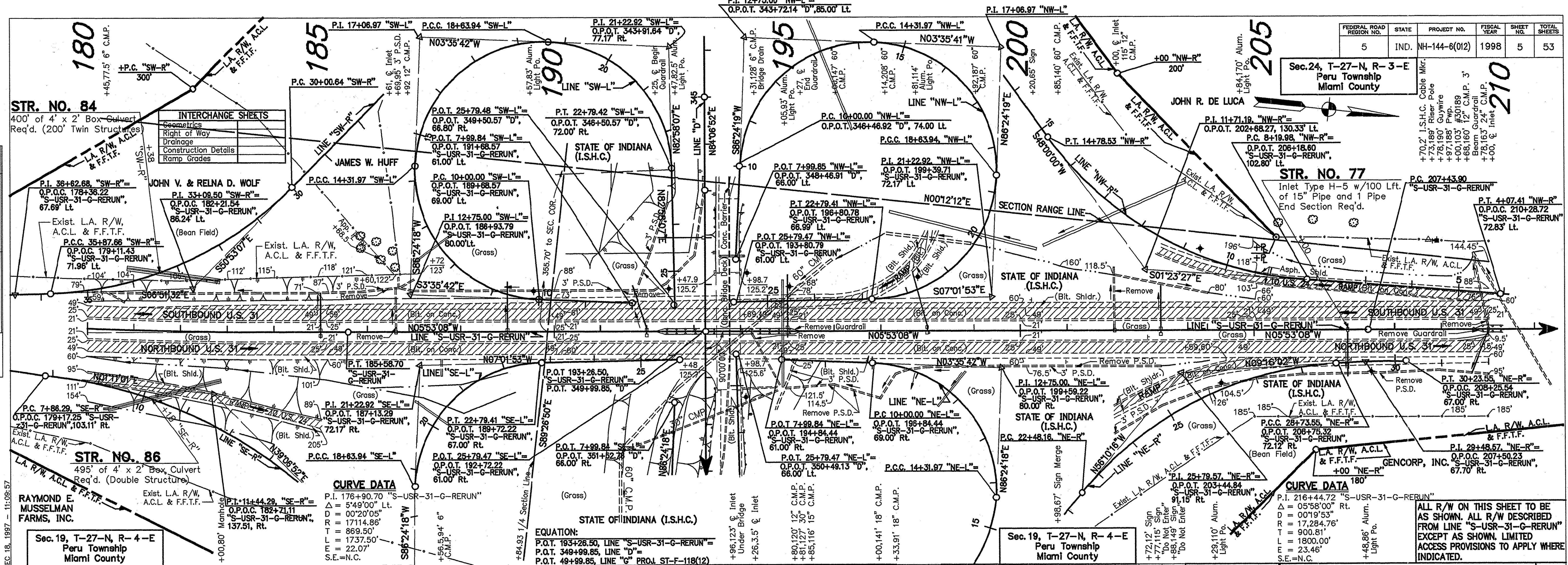
ALL R/W ON THIS SHEET TO BE AS SHOWN. ALL R/W DESCRIBED FROM LINE "S-USR-31-G-RERUN" EXCEPT AS SHOWN. LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.

INTERCHANGE SHEETS	
Geometrics	
Right of Way	
Drainage	
Construction Details	
Ramp Grades	

PLAN
DATE: 11/27/97
BY: J. M. BROADUS
CHECKED: B. M. WOOD
NO. 1600812

DATE: 11/27/97
BY: J. M. BROADUS
CHECKED: B. M. WOOD
NO. 1600812

PROFILE
DATE: 11/27/97
BY: J. M. BROADUS
CHECKED: B. M. WOOD
NO. 1600812

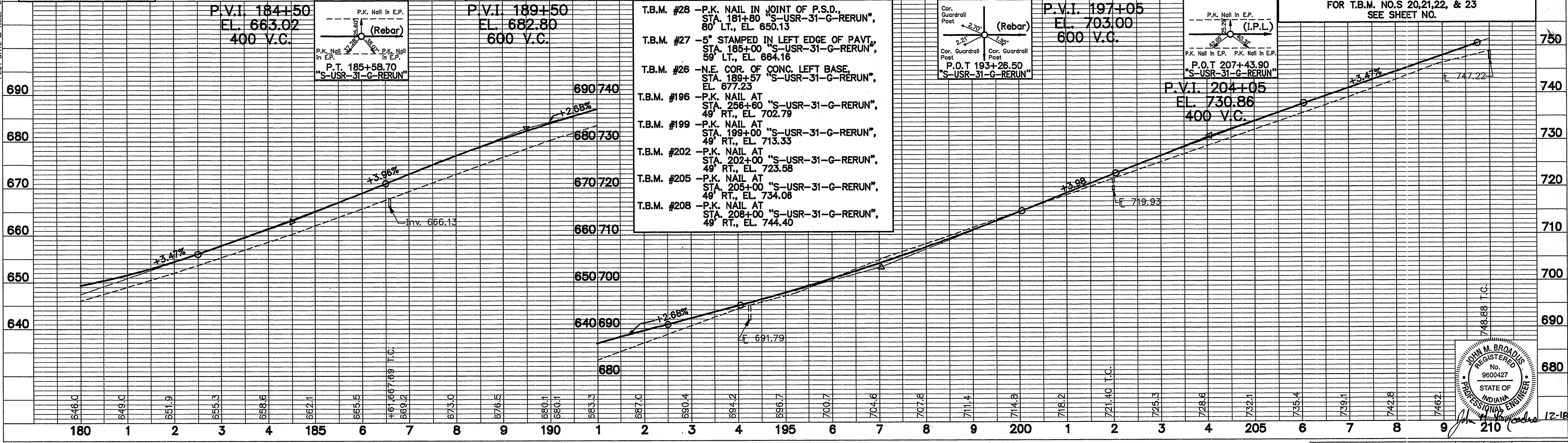


CURVE DATA

P.I. 176+90.70 "S-USR-31-G-RERUN"
 $\Delta = 5^{\circ}49'00''$ Lt.
 $D = 00^{\circ}20'05''$
 $R = 17114.86'$
 $T = 869.50'$
 $L = 1737.50'$
 $E = 22.07'$
 $S.E. = N.C.$

EQUATION:

P.O.T. 193+26.50, LINE "S-USR-31-G-RERUN"
P.O.T. 349+99.85, LINE "D"
P.O.T. 49+99.85, LINE "G" PROJ. ST-F-118(12)



T.B.M. #28 - P.K. NAIL IN JOINT OF P.S.D., STA. 181+80 "S-USR-31-G-RERUN", 80' LT., EL. 650.13

T.B.M. #27 - 5" STAMPED IN LEFT EDGE OF PAVT, STA. 185+00 "S-USR-31-G-RERUN", 59' LT., EL. 664.16

T.B.M. #26 - N.E. COR. OF CONC. LEFT BASE, STA. 189+57 "S-USR-31-G-RERUN", EL. 677.23

T.B.M. #196 - P.K. NAIL AT STA. 256+60 "S-USR-31-G-RERUN", 49' RT., EL. 702.79

T.B.M. #199 - P.K. NAIL AT STA. 199+00 "S-USR-31-G-RERUN", 49' RT., EL. 713.33

T.B.M. #202 - P.K. NAIL AT STA. 202+00 "S-USR-31-G-RERUN", 49' RT., EL. 723.58

T.B.M. #205 - P.K. NAIL AT STA. 205+00 "S-USR-31-G-RERUN", 49' RT., EL. 734.08

T.B.M. #208 - P.K. NAIL AT STA. 208+00 "S-USR-31-G-RERUN", 49' RT., EL. 744.40

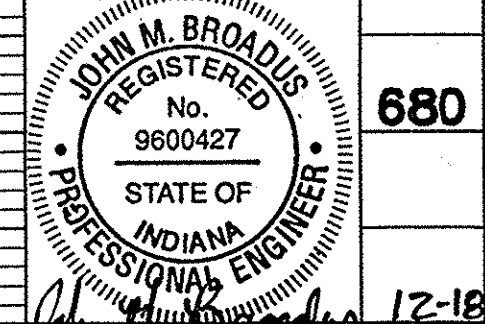
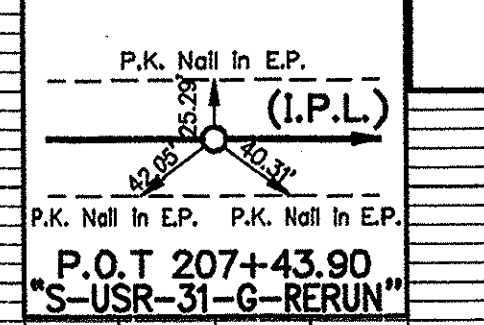
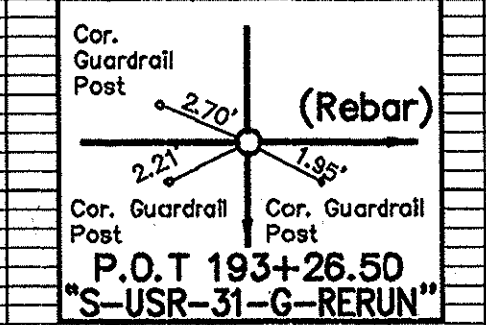


PLATE 1 - PLAN - PROFILE B. M. WOOD 1975

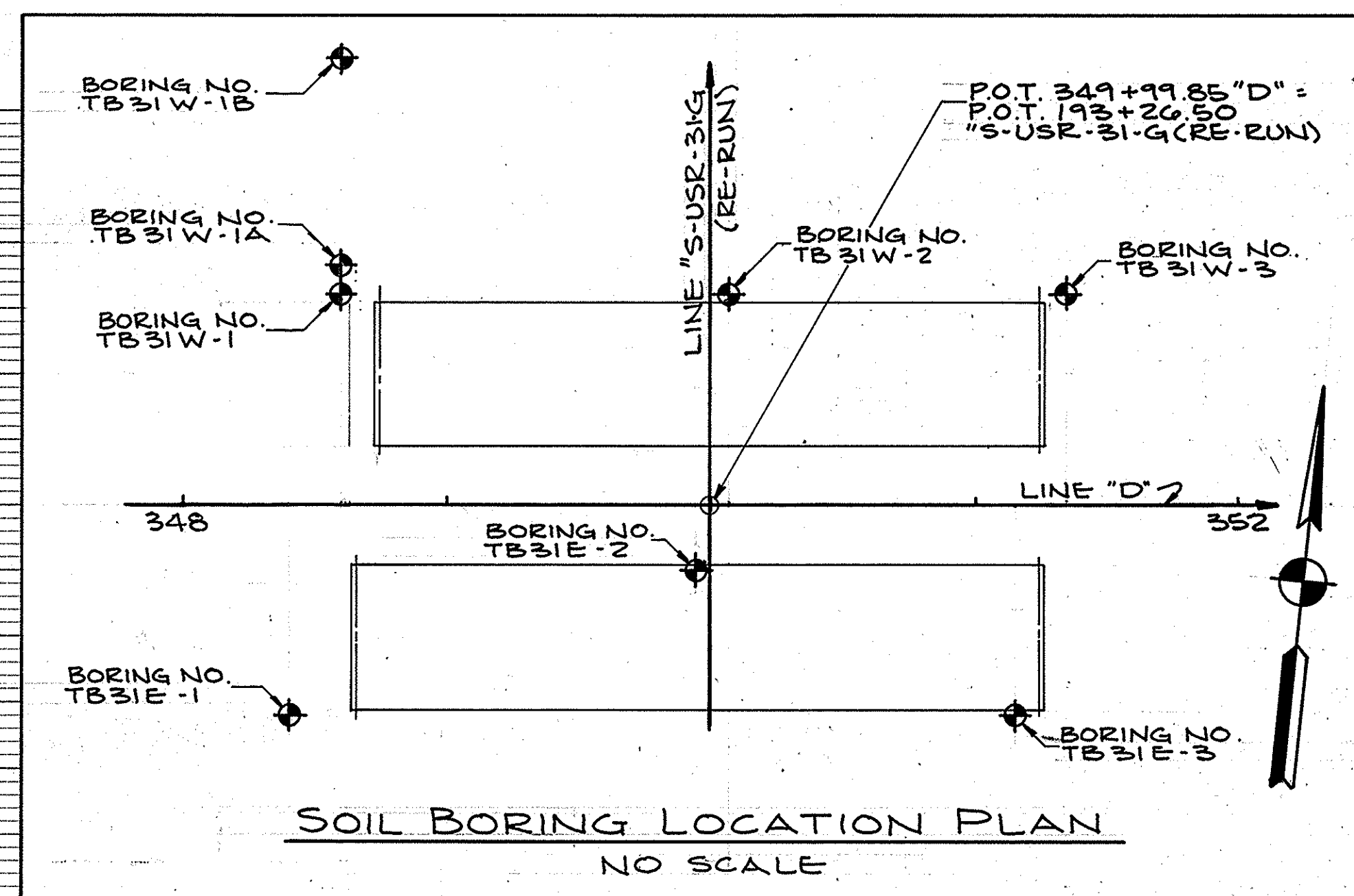
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
NH-144-6(012)	"S-USR-31-G-RERUN"	5	53	

FOR INFORMATION ONLY

BORING NO.	TB31W-1			TB31W-1A			TB31W-1B			TB31W-2			TB31W-3		
	STATION	OFFSET	GROUND ELEV.	STATION	OFFSET	GROUND ELEV.	STATION	OFFSET	GROUND ELEV.	STATION	OFFSET	GROUND ELEV.	STATION	OFFSET	GROUND ELEV.
	348+60 "D"	80' LT.	720.00	348+60 "D"	90' LT.	720.00	348+60 "D"	170' LT.	688.20	350+07 "D"	80' LT.	694.20	351+35 "D"	80' LT.	713.00
	SAMPLE NO. ELEV. "N" DESCRIPTION			SAMPLE NO. ELEV. "N" DESCRIPTION			SAMPLE NO. ELEV. "N" DESCRIPTION			SAMPLE NO. ELEV. "N" DESCRIPTION			SAMPLE NO. ELEV. "N" DESCRIPTION		
720	720.0		↙ SURFACE ELEV.	720.0		↙ SURFACE ELEV.	720	700				700	720		720
715	1	717.5	2,2,3	LOAM, SOFT TO STIFF, BROWN, MOIST, W/ TRACE WOOD FRAGMENTS (FILL)	2	715.0	2,2,2	LOAM, SOFT TO STIFF, BROWN, MOIST, W/ TRACE WOOD FRAGMENTS (FILL)							
710	3	712.5	8,8,6	↙ 8.0'											
705	4	710.0	7,7,10	CLAY LOAM, VERY STIFF, BROWN, MOIST (FILL)											
700	5	705.0	8,10,10	↙ 15.0'											
695	6	700.0	9,11,12	LOAM, VERY STIFF, BROWN, MOIST (FILL)											
695	AUGER REFUSAL AND END OF BORING DEPTH 20.0'			AUGER REFUSAL AND END OF BORING DEPTH 20.0'			AUGER REFUSAL AND END OF BORING DEPTH 20.0'			AUGER REFUSAL AND END OF BORING DEPTH 20.0'			AUGER REFUSAL AND END OF BORING DEPTH 20.0'		
695	WATER LEVEL OBSERVATION NONE			WATER LEVEL OBSERVATION NONE			WATER LEVEL OBSERVATION NONE			WATER LEVEL OBSERVATION NONE			WATER LEVEL OBSERVATION NONE		
690															
685															
680															
675															
670															
665															
660															
655															
650															
645															
640															
635															
630															

DATE: 7/92
BY: S.L.G.
SURVEYED: []
NOTED: []
NOTE BOOK: []
ALIGNED: []
RI. OF WAY: []
CHECKED: []

DATE: 7/92
BY: S.L.G.
SURVEYED: []
NOTED: []
NOTE BOOK: []
GRADES: []
STRUCTURE NOTATIONS: []
CHECKED: []

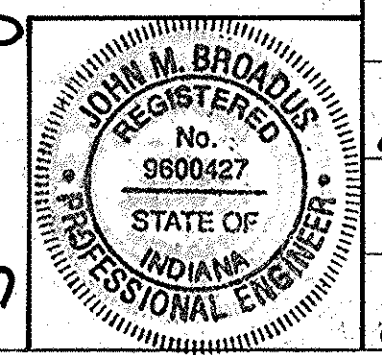


LEGEND:
 * LOCATION OF TEST BORING
 * NUMBER OF BLOWS REQUIRED TO DRIVE A 2" O.D. SPLIT SPOON SAMPLER TO A DEPTH OF 6" BY MEANS OF A 140 LB. HAMMER FALLING 30"

PILE LOADING FOR GEOTECHNICAL TESTING (WEST BOUND)

Bent	No. 1	No. 2	No. 3
Design Load	60T	60T	60T
Factor of Safety	2.5	2.5	2.5
Factored Design Load	150T	150T	150T
Friction in Scour Zone	0T	0T	0T
Down Drag Friction	0T	0T	0T
Ultimate Load	150T	150T	150T
Testing Method	BY FORMULA, STD. SPEC. 701.06		

SOIL BORINGS
 SCALE: 1"=5' VERT.
 SUBMITTED FOR APPROVAL
 John M. Braddis 12-18-97



NOTE:
FOR SOIL BORING LOCATION PLAN AND LEGEND, SEE SHEET 6

BORING NO.	TB31E-1		
STATION	348+40 "D"		
OFFSET	80' RT.		
GROUND ELEV.	712.80		
ELEV.	SAMPLE		DESCRIPTION
	NO.	"N"	
720			
715			
710	1	710.3	0.5' SURFACE ELEV. TOPSOIL (VISUAL)
705	2	707.8	LOAM, VERY SOFT TO VERY STIFF, BROWN, MOIST (POSSIBLE FILL TO 8')
700	3	705.3	
695	4	702.8	
690	5	697.8	14.0'
685	6	692.8	
680	7	687.8	
675	8	682.8	SILTY CLAY, VERY STIFF TO MEDIUM STIFF, GRAY, MOIST TO VERY MOIST, W/OCCASIONAL SILT AND SAND SEAMS
670	9	677.8	
665	10	672.8	
660	11	667.8	
655	12	662.8	49.0'
650	13	657.8	SILTY CLAY LOAM, HARD, GRAY, SLIGHTLY MOIST
645			
640			
635			
630			

END OF BORING DEPTH 55.0'
WATER LEVEL OBSERVATION
17.2' WHILE DRILLING
25.1' AFTER BORING
8.6' @ 62 HRS. AFTER BORING

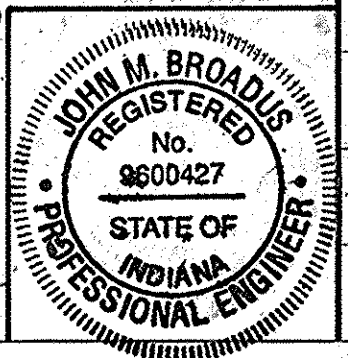
BORING NO.	TB31E-2		
STATION	349+94 "D"		
OFFSET	23' RT.		
GROUND ELEV.	690.60		
ELEV.	SAMPLE		DESCRIPTION
	NO.	"N"	
720			
715			
710	1	690.6	0.5' SURFACE ELEV. TOPSOIL (VISUAL)
705	2	688.1	
700	3	685.6	CLAY LOAM, VERY STIFF, BROWN, MOIST
695	4	683.1	8.0'
690	5	680.6	CLAY LOAM, MEDIUM STIFF, BROWN, MOIST, W/OCCASIONAL SILT SEAMS
685	6	675.6	13.0'
680	7	670.6	SILTY CLAY, VERY STIFF, BROWN, MOIST
675	8	665.6	23.0'
670	9	660.6	SAND AND GRAVEL, MEDIUM DENSE, GRAY, WET (VISUAL)
665	10	655.6	28.0'
660	11	650.6	SILTY CLAY LOAM, VERY STIFF TO HARD, GRAY, MOIST, W/OCCASIONAL SILT SEAMS
655	12	645.6	38.0'
650	13	640.6	SILTY CLAY, HARD, GRAY, MOIST
645	14	635.6	48.0'
640	15	630.6	SILTY CLAY LOAM, HARD, GRAY, MOIST, W/OCCASIONAL SILT SEAMS
635	16	625.6	54.0'
630	17	620.6	SAND, MEDIUM DENSE TO DENSE, GRAY, WET (VISUAL)
625			
620			
615			
610			

END OF BORING DEPTH 70.0'
WATER LEVEL OBSERVATION
21.8' WHILE DRILLING
19.0' AFTER BORING
19.6' @ 24 HRS. AFTER BORING

END OF BORING DEPTH 50.0'
WATER LEVEL OBSERVATION
DRY WHILE DRILLING
DRY AFTER BORING
DRY @ 24 HRS. AFTER BORING

Bent	No. 1	No. 2	No. 3
Design Load	70T	70T	70T
Factor of Safety	2.5	2.5	2.5
Factored Design Load	175T	175T	175T
Friction in Scour Zone	0T	0T	0T
Down Drag Friction	0T	0T	0T
Ultimate Load	175T	175T	175T
Testing Method	BY FORMULA, STD. SPEC. 701.06		

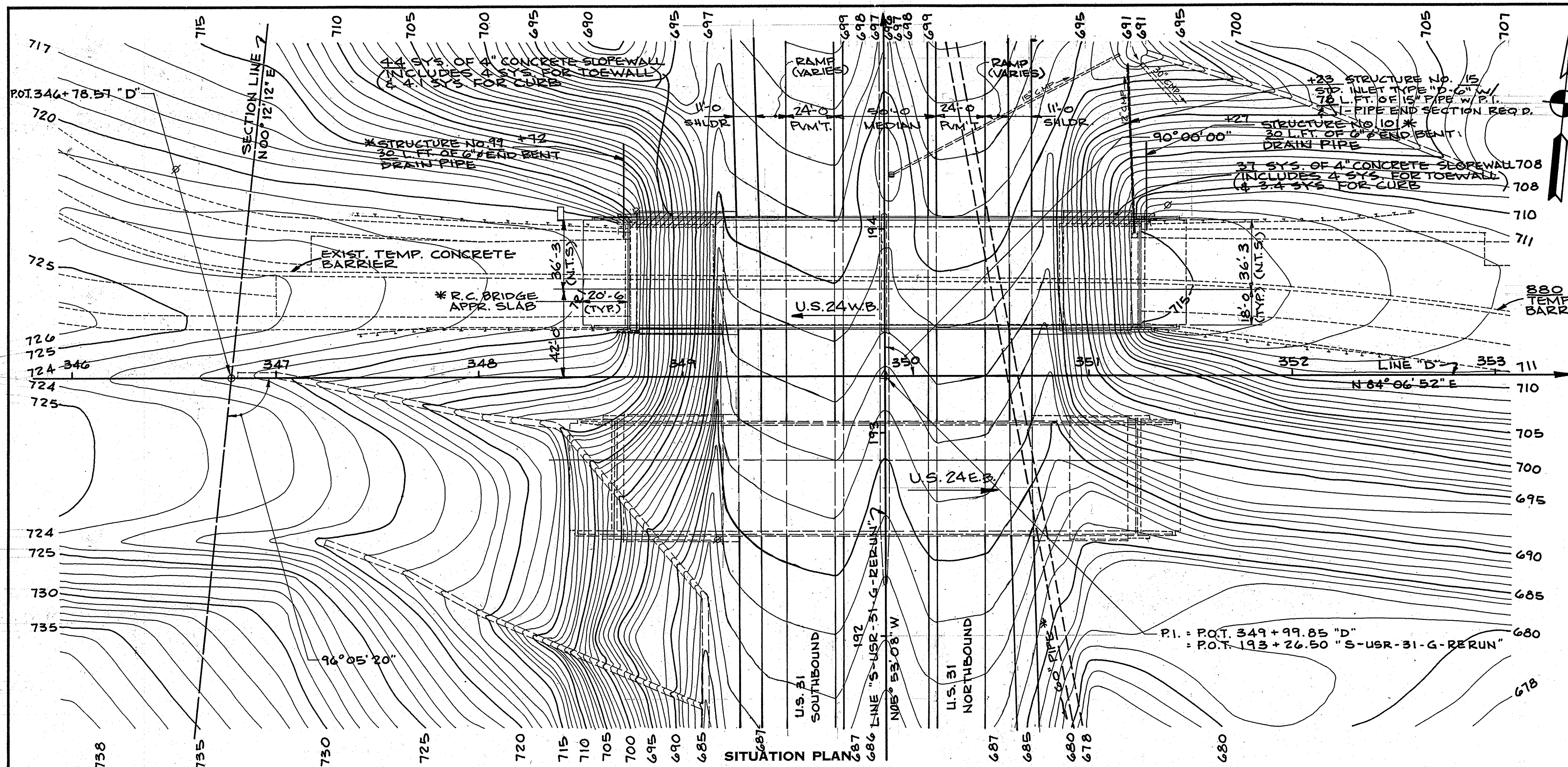
SOIL BORINGS
SCALE: 1"=5' VERT.
SUBMITTED FOR APPROVAL
John H. Broadus 12-18-97



R-23637

PLAN
DATE: 7/92
BY: S.L.G.
CHECKED: S.L.G.
NO.:

PROFILE
DATE: 7/92
BY: S.L.G.
CHECKED: S.L.G.
NO.:



UTILITIES

TELEPHONE: INDIANA BELL
240 N. MERIDIAN ST.
INDIANAPOLIS, IN. 46204
PHONE: 317-265-2727

ELECTRIC: MIAMI-CASS REMC
P.O. BOX 108
PERU, IN. 46970
PHONE: 765-472-3361

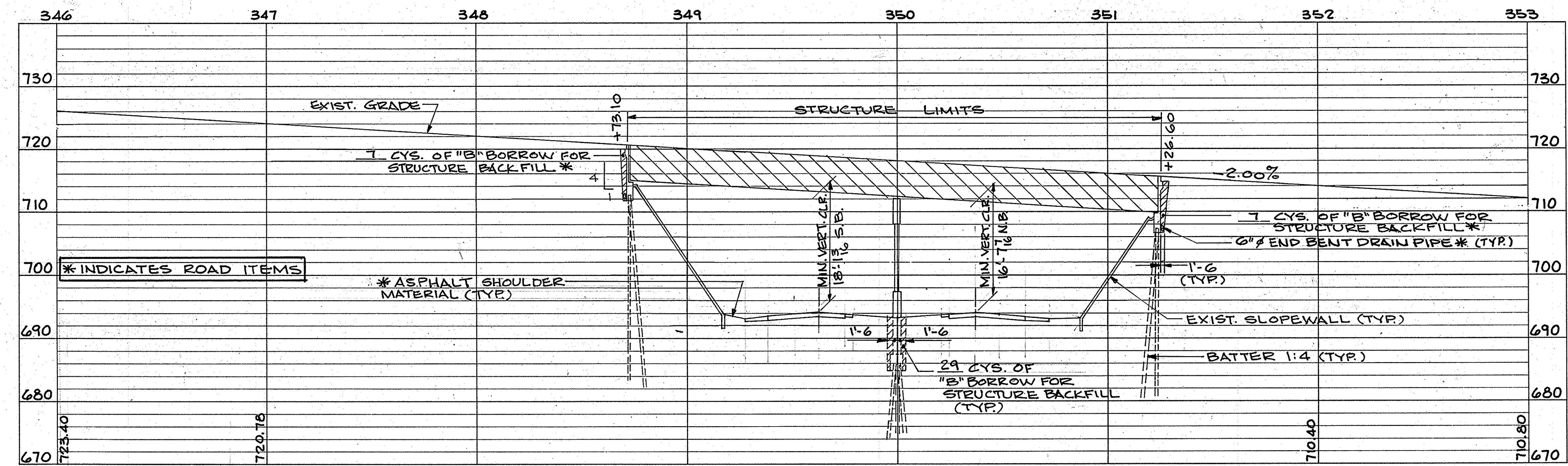
GAS: NORTHERN IND. PUBLIC SERVICE CO.
1202 W. MAIN
PERU, IN. 46970
PHONE: 765-472-3361

AMMONIA GAS: GULF CENTRAL STORAGE & TERMINAL CO.
P.O. BOX 11
WALTON, IN. 46994
PHONE: 219-626-2543

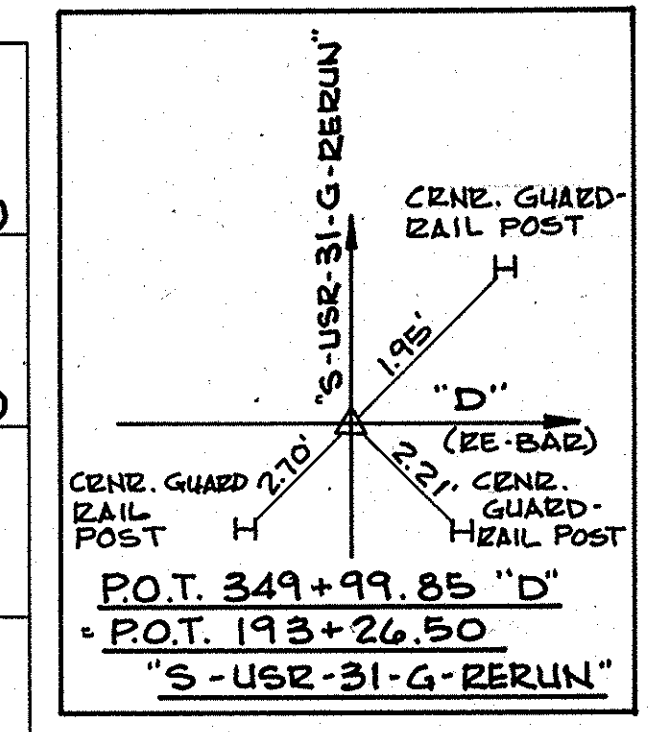
880 L.F. OF EXISTING TEMPORARY CONCRETE BARRIER TO BE REMOVED.

SITUATION PLAN
SCALE: 1" = 30'-0", CONTOUR INTERVAL = 1 FT.

* INDICATES ROAD ITEMS



PROFILE ON PROPOSED E ROADWAY - W.B. STR.
SCALES: HORIZ. 1" = 30'-0" VERT. 1" = 10'-0"



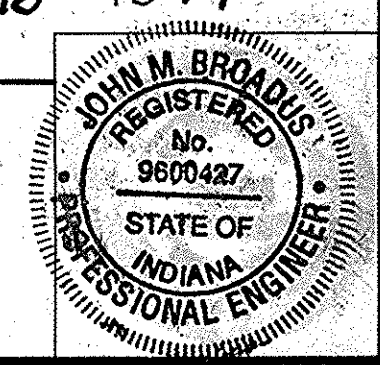
LAYOUT - (W.B. STRUCTURE)
CONTINUOUS COMPOSITE WELDED PLATE GIRDER BRIDGE
2 SPANS: 1@125'-0"; 1@125'-0" NO SKEW
54'-3" CLEAR ROADWAY U.S. 24 (W.B.)/U.S. 31

INDIANA DEPARTMENT OF TRANSPORTATION
MIAMI COUNTY

SCALE: -AS NOTED DATE: DECEMBER 18 1997

John M. Brodus

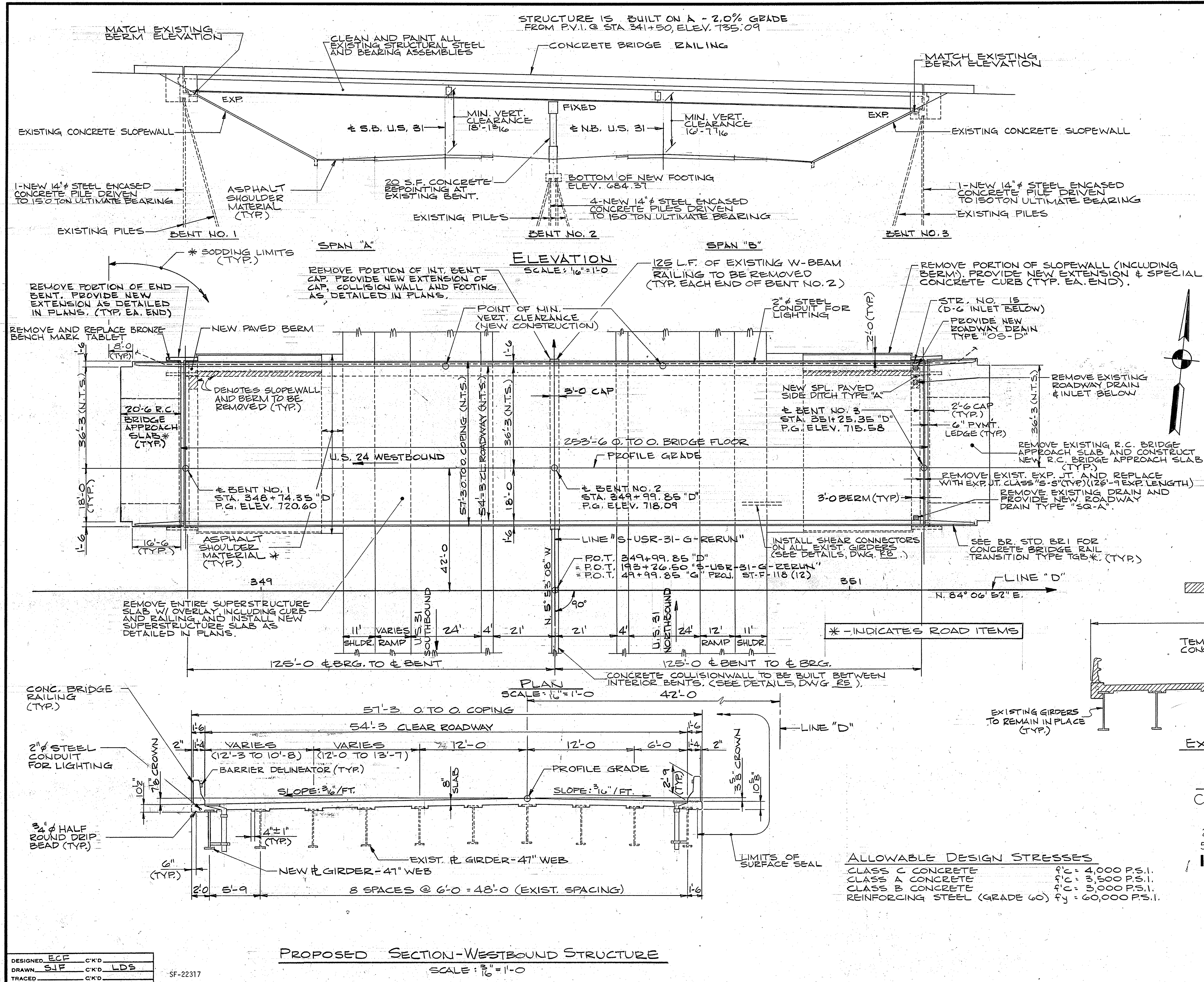
DRAWING: RI OF R13 SHEET: 8 OF 53
PROJECT: NH-144-6() STATION: -
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-6597B



DRAWN: SJF CKD
DESIGNED: CKD
TRACED: CKD

SP-22396

REVISED 3-16-98: UTILITY PHONE NUMBERS



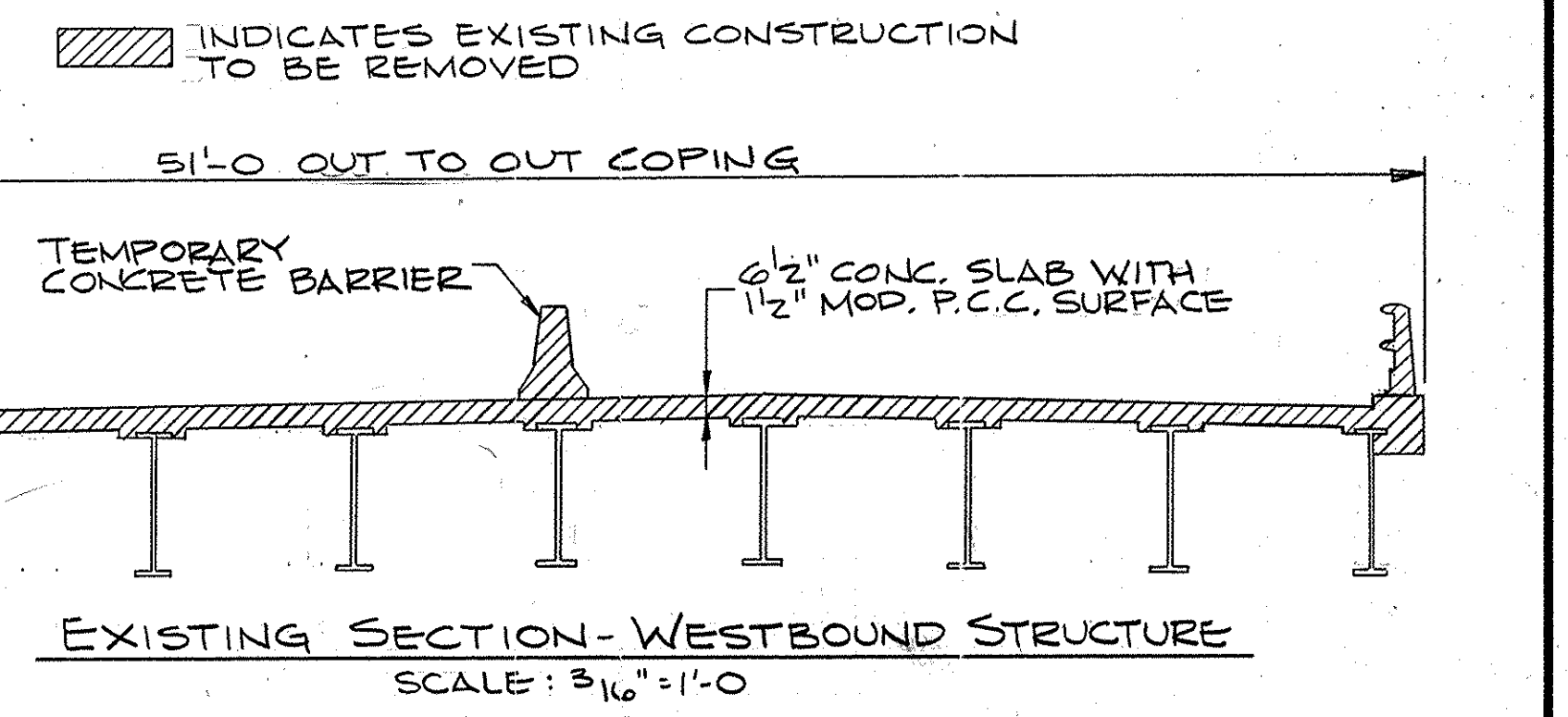
STANDARD DRAWINGS

BR. STD.	RD. STD.	PURPOSE
BR 1		CONCRETE BRIDGE RAILING TRANSITION
BRI A		CONCRETE BRIDGE RAILING TRANSITION
C 1		REINFORCING BAR NOTES AND DETAILS, FILE SHELL FIELD SPLICES
C 3		JOINT DETAILS AND OPTIONAL RAILING
D		VERTICAL REINFORCING SPLICE
S 1		ROADWAY DRAINS, TYPES "OS-D" AND "SQ-A"
SS-1A		"B" BORROW FOR STRUCTURE BACKFILL
SS-1B		EXPANSION JOINT CLASS-SS
SS-2		EXPANSION JOINT CLASS-SS
R 2B		2" Ø STEEL PIPE CONDUIT FOR LIGHTING AND EXPANSION SLEEVE DETAIL
CCP-J 4		TRANSVERSE CONSTRUCTION JOINT
MB 2		BRIDGE SLOPEWALL & PAVED BERM DETAILS
MB 4		PAVED SIDE DITCH TYPE "A" DETAILS
MC		TYPE G INLET CASTING
MD		TYPE D INLET
ME 2		PIPE END SECTIONS
MN		BACKFILL FOR PIPE STRUCTURES

- ### GENERAL NOTES
- PLANS FOR EXISTING STRUCTURE (CONTRACT NO. R-10298) ARE ON FILE AT THE INDIANA DEPT. OF TRANSPORTATION. THE PLAN ARE AVAILABLE ON REQUEST.
 - THE TOP OF ENTIRE END BENT CAPS, FRONT FACE OF NEW AND EXISTING MUDWALLS, ALL EXPOSED SURFACES OF CONCRETE BRIDGE RAILING, TOP OF BRIDGE DECK, FACE OF DECK COPING AND UNDERSIDE OF BRIDGE DECK FROM COPING TO DRIP BEAD TO BE SURFACE SEALED.
 - PAINT ON EXISTING STRUCTURE IS NOT LEAD BASED. ESTIMATED WEIGHT OF EXISTING STRUCTURAL STEEL = 265,000 LBS.
 - FOR ADDITIONAL GENERAL NOTES, SEE DWG. 52.

DESIGN DATA

DESIGNED FOR HS20-44 LOADING IN ACCORDANCE WITH 1992 AASHTO SPECIFICATIONS, INCLUDING 1993 INTERIM SPECIFICATIONS, CHECKED FOR SPECIAL LOADING OF 2-24,000 LB. AXLES SPACED AT 4'-0" CENTERS. DESIGNED IN ACCORDANCE WITH DIVISION I-A OF 1992 AASHTO SPECIFICATIONS, INCLUDING 1993 INTERIM SPECIFICATIONS, USING SEISMIC PERFORMANCE CATEGORY "A" AND 0.05 ACCELERATION COEFFICIENT.



GENERAL PLAN - W.B. STRUCTURE

CONTINUOUS COMPOSITE WELDED PLATE GIRDER BRIDGE

2 SPANS: 1 @ 125'-0", 1 @ 125'-0" NO. SKEW
 54'-3" CLEAR ROADWAY U.S. 24 (W.B.) / U.S. 31

INDIANA DEPARTMENT OF TRANSPORTATION

ALLOWABLE DESIGN STRESSES

CLASS C CONCRETE	f _c = 4,000 P.S.I.
CLASS A CONCRETE	f _c = 3,500 P.S.I.
CLASS B CONCRETE	f _c = 3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	f _y = 60,000 P.S.I.

DESIGNED: ECF C'KD
 DRAWN: SIF C'KD LDS
 TRACED: C'KD

SF-22317

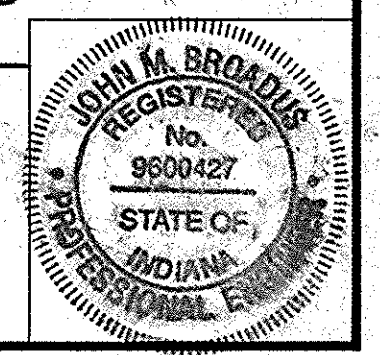
PROPOSED SECTION - WESTBOUND STRUCTURE

SCALE: 3/16" = 1'-0"

SCALE: - AS NOTED DATE: DECEMBER 18 1997

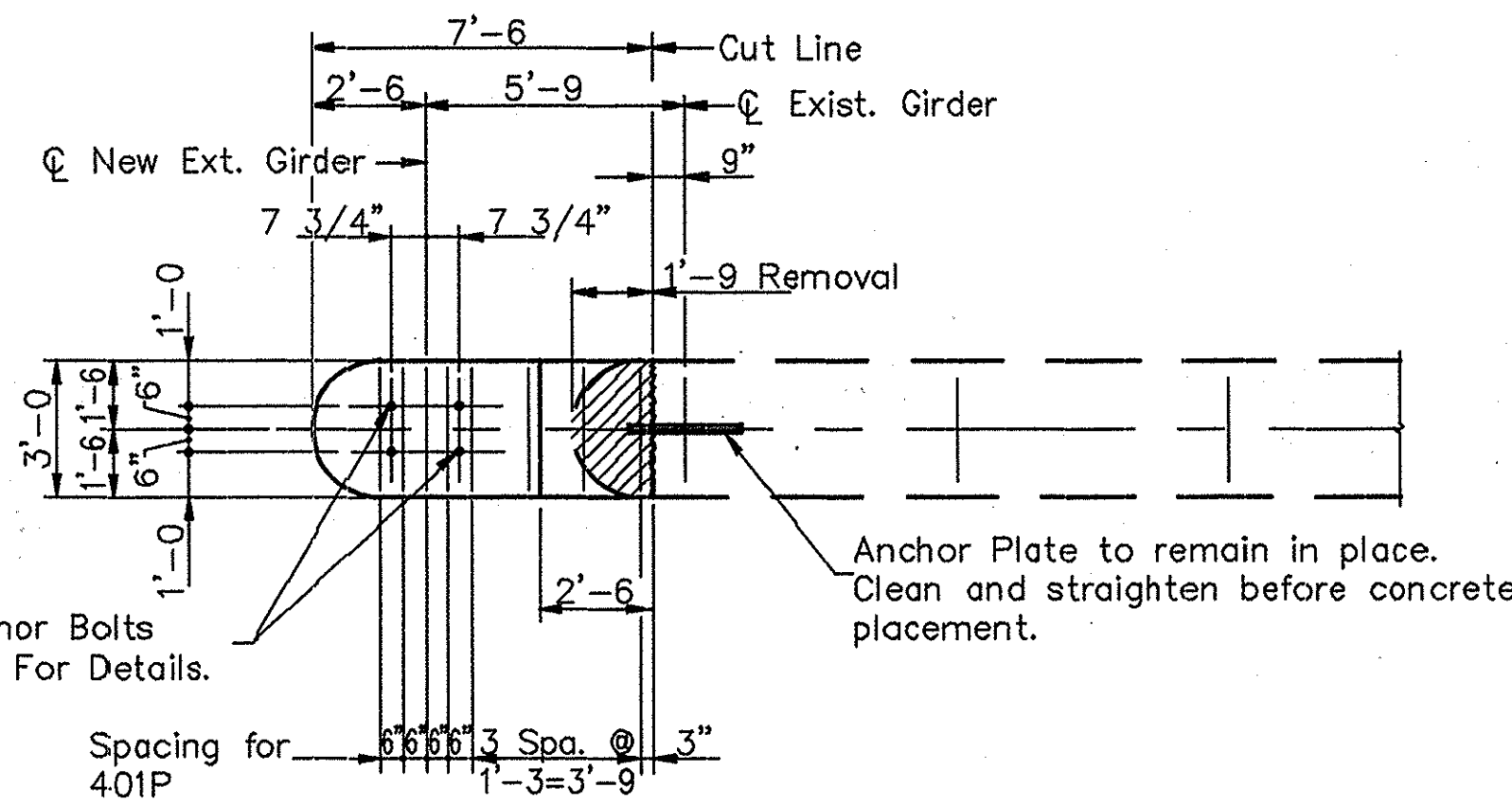
John H. Brodus

DRAWING: R2 OF R13 SHEET: 9 OF 53
 PROJECT: NH-144-6() STATION: -
 BRIDGE CONTRACT NO. R-23637
 BRIDGE FILE: 24-52-6597B



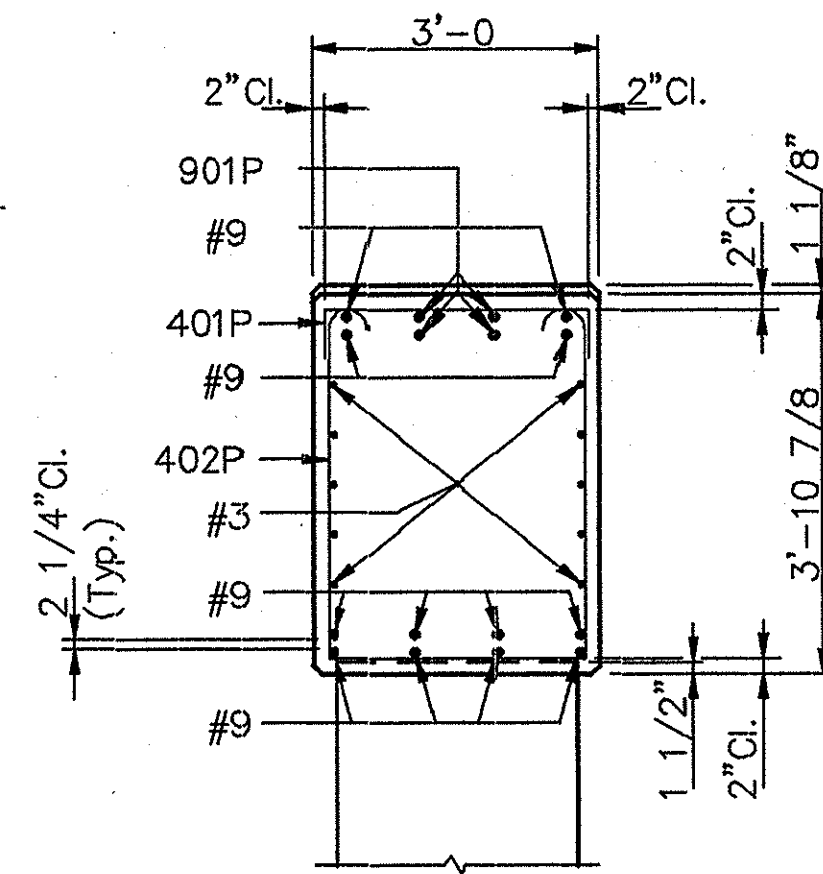
BILL of MATERIALS

SIZE or MK	NO. of BARS	LENGTH	WEIGHT
1001P	10	5'-4"	
#10	10	15'-2"	
#10	10	14'-11"	
TOTAL #10			1524#
901P	4	10'-0"	
902P	13	10'-8"	
#9	4	7'-2"	
#9	8	6'-0"	
TOTAL #9			868#
701P	18	11'-9"	
#7	4	9'-1"	
#7	4	3'-10"	
TOTAL #7			538#
#6	9	7'-8"	
TOTAL #6			104#
501P	9	3'-5"	
502P	28	8'-1"	
#5	15	6'-9"	
#5	4	2'-0"	
TOTAL #5			382#
401P	8	3'-8"	
402P	5	10'-9"	
#4	12	8'-2"	
TOTAL #4			121#
301P	22	7'-10"	
302P	9	6'-0"	
#3	10	6'-0"	
TOTAL #3			108#
TOTAL UNCOATED REINF.			3645#
CONCRETE			
FOOTING CL. "B"			7.5 C.Y.
COLLISIONWALL CL. "A"			7.2 C.Y.
COLLISIONWALL EXTENSIONS			
CL. "A" 4 @ 2.0 C.Y.			8.0 C.Y.
COLUMN CL. "A"			2.1 C.Y.
CAP CL. "A"			3.2 C.Y.
TOTAL CL. "A" CONCRETE			20.5 C.Y.
MISCELLANEOUS			
FIELD DRILLED HOLES IN CONCRETE			64 EACH
4-14" Ø, 0.312" THICK STEEL			
ENCASED CONC. PILES x 27-0			108.0 L.F.



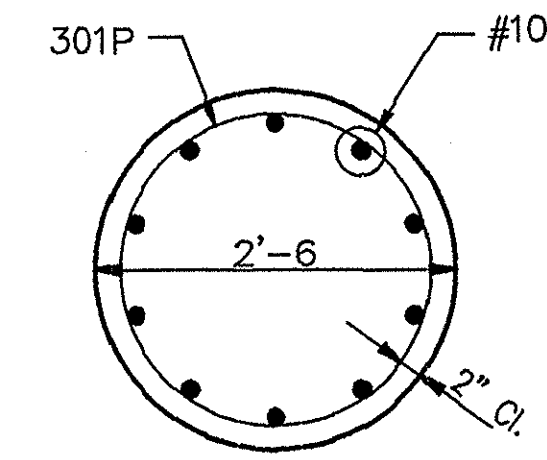
PARTIAL CAP PLAN

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



SECTION "B-B"

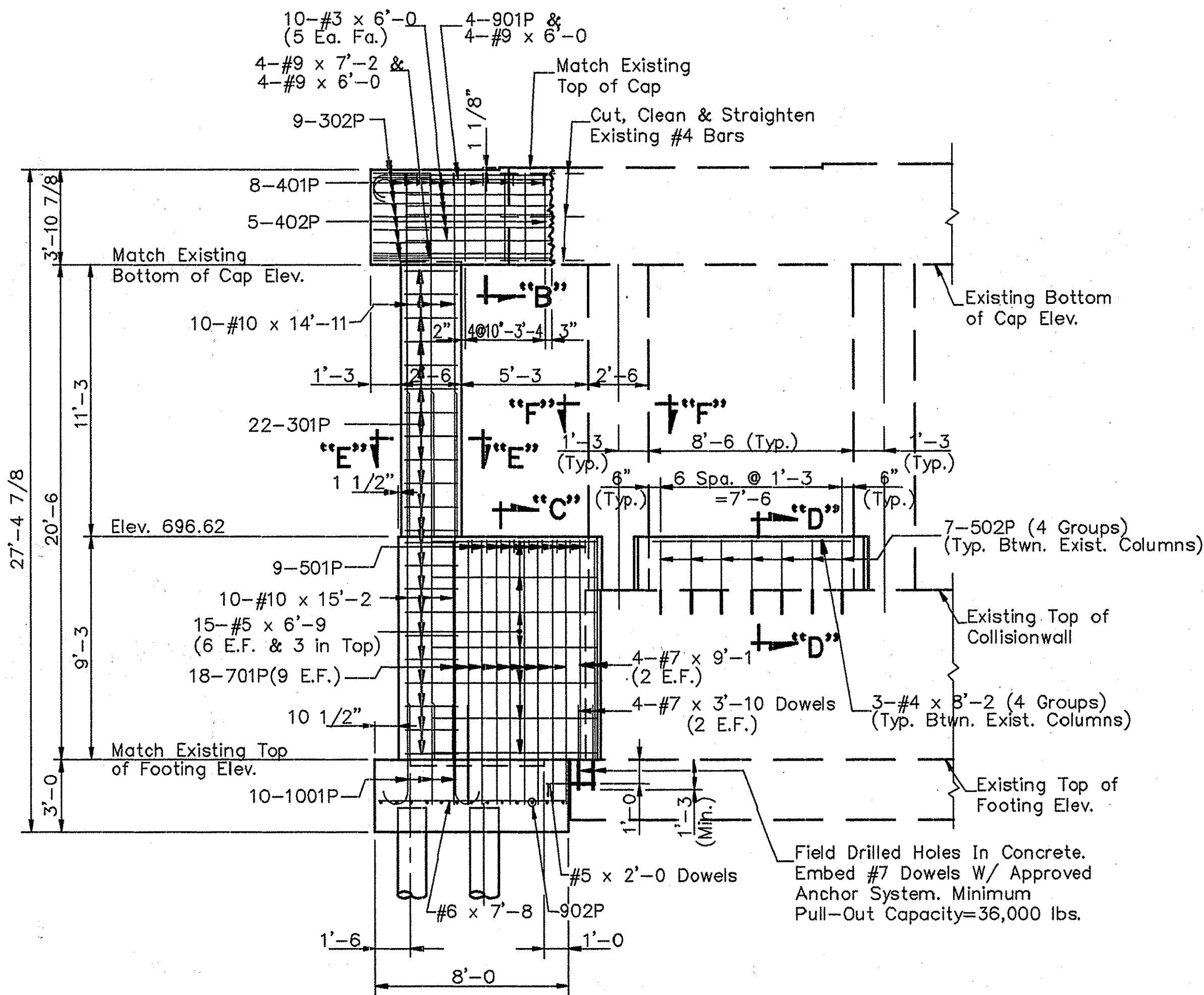
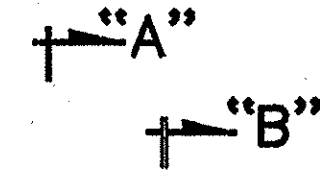
Scale: 1/2"=1'-0"



SECTION "E-E"

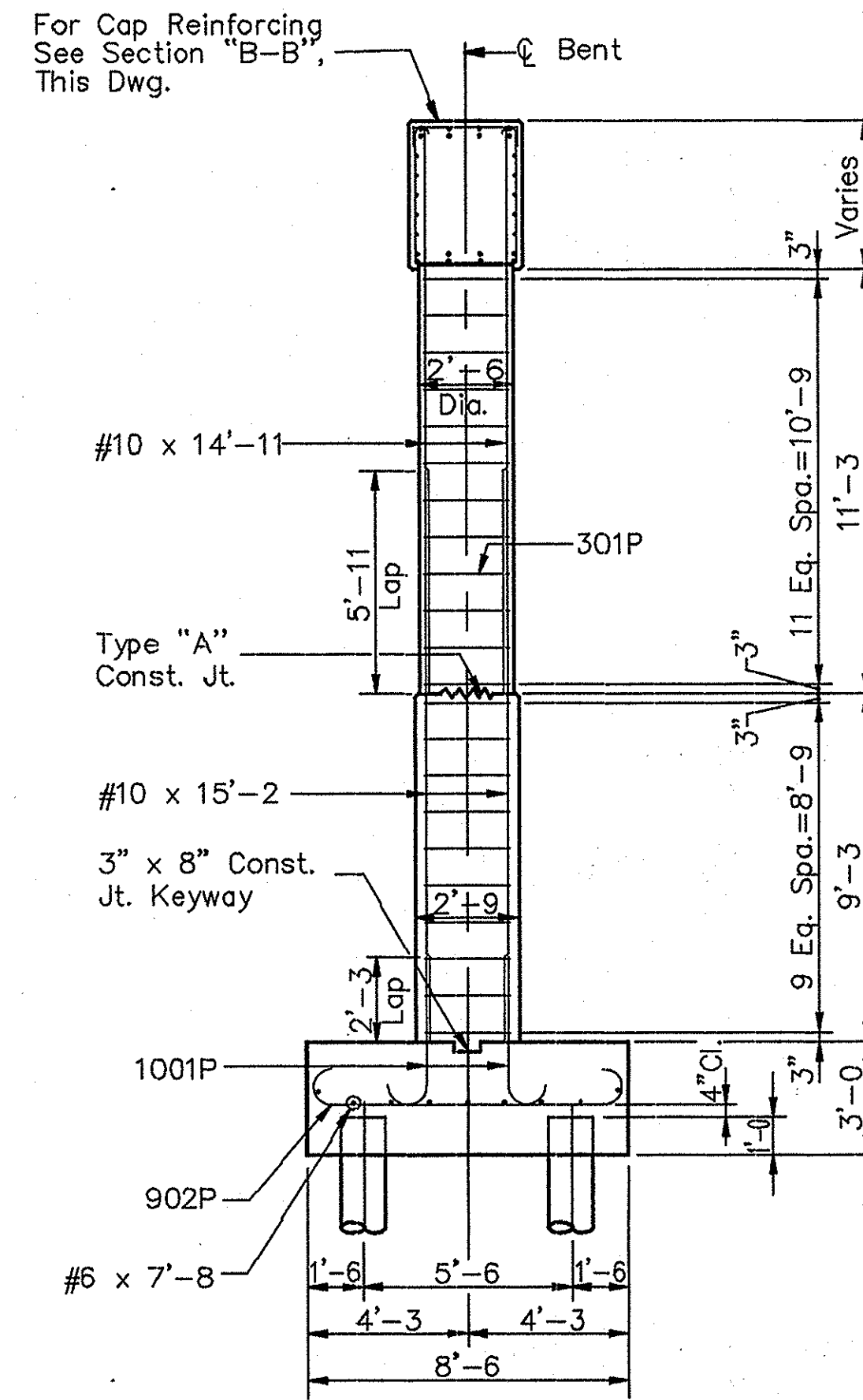
Scale: 3/4"=1'-0"

NOTE:
NORTH END



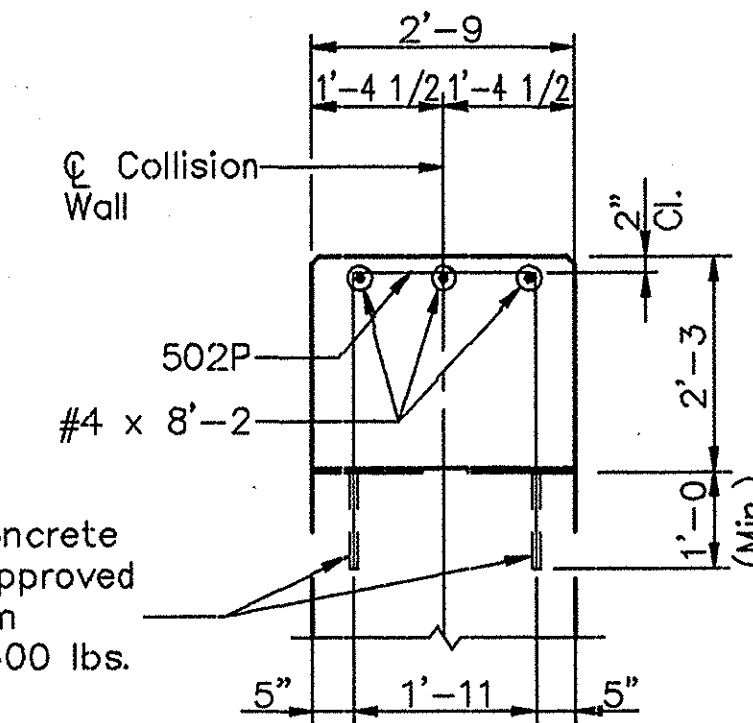
ELEVATION

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



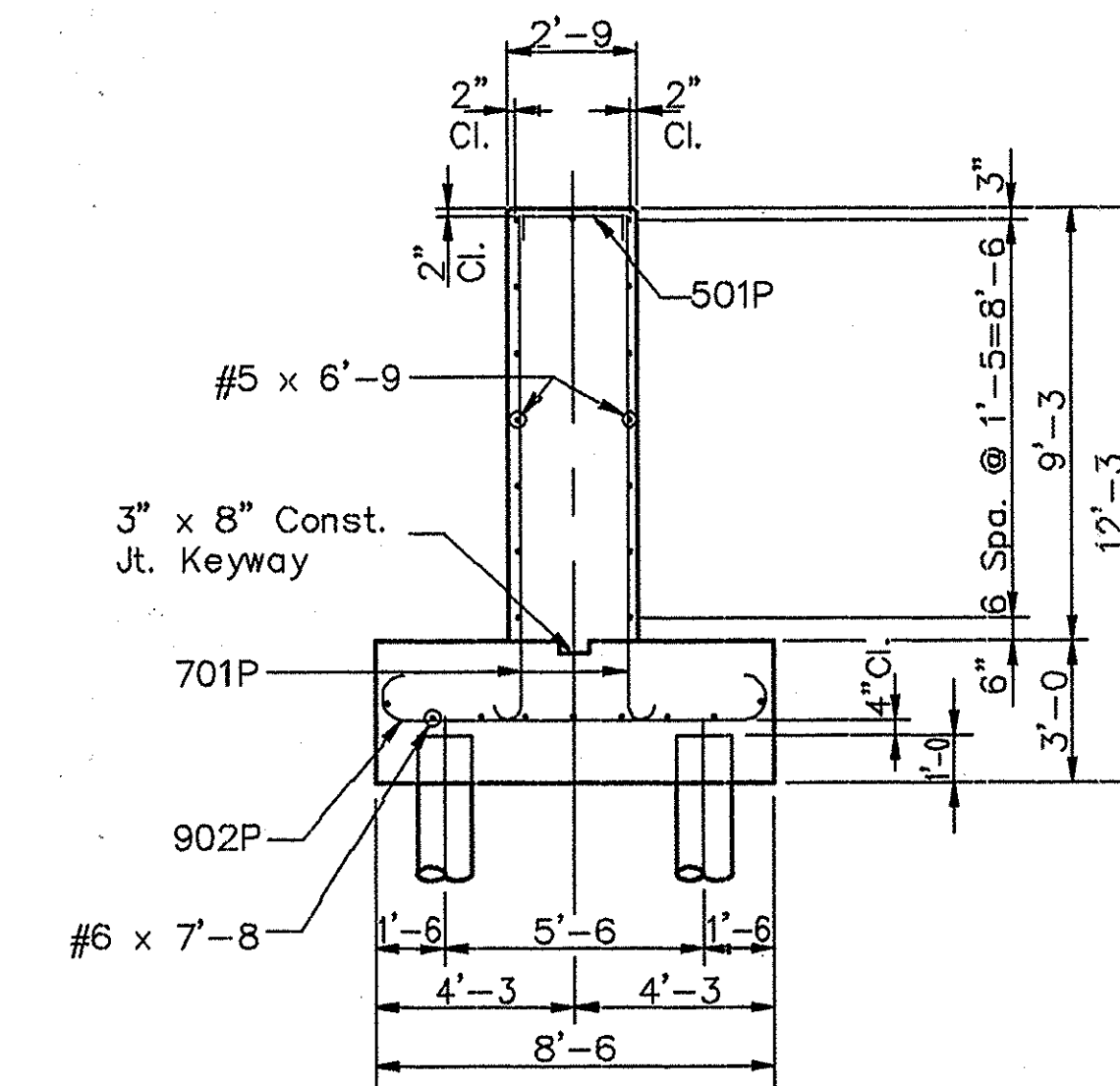
SECTION "A-A"

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



SECTION "D-D"

Scale: 1/2"=1'-0"



SECTION "C-C"

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

Field Drilled Holes In Concrete Embed #5 Dowels w/ Approved Anchor System. Minimum Pull-out Capacity= 18,600 lbs. Per Leg.

For Cap Reinforcing See Section "B-B", This Dwg.

NOTES:

1. For reinforcing bar notes, see Br. Std. C1.
2. For General Notes, see Dwg. S2.
3. For Type "A" Const. Jt., see Br. Std. C3.
4. For Footing Plan, additional sections and details, see Dwg. R5.

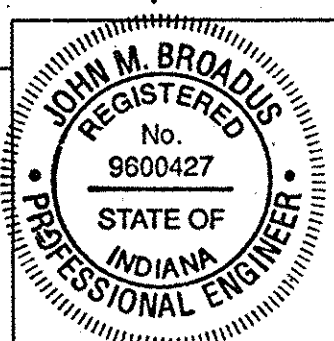
**BENT NO. 2
INDIANA DEPARTMENT OF TRANSPORTATION**

SCALE: AS NOTED

DATE: DECEMBER 18 1997

John M. Broadus

DRAWING: R4 OF R13 SHEET: 11 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-6597B

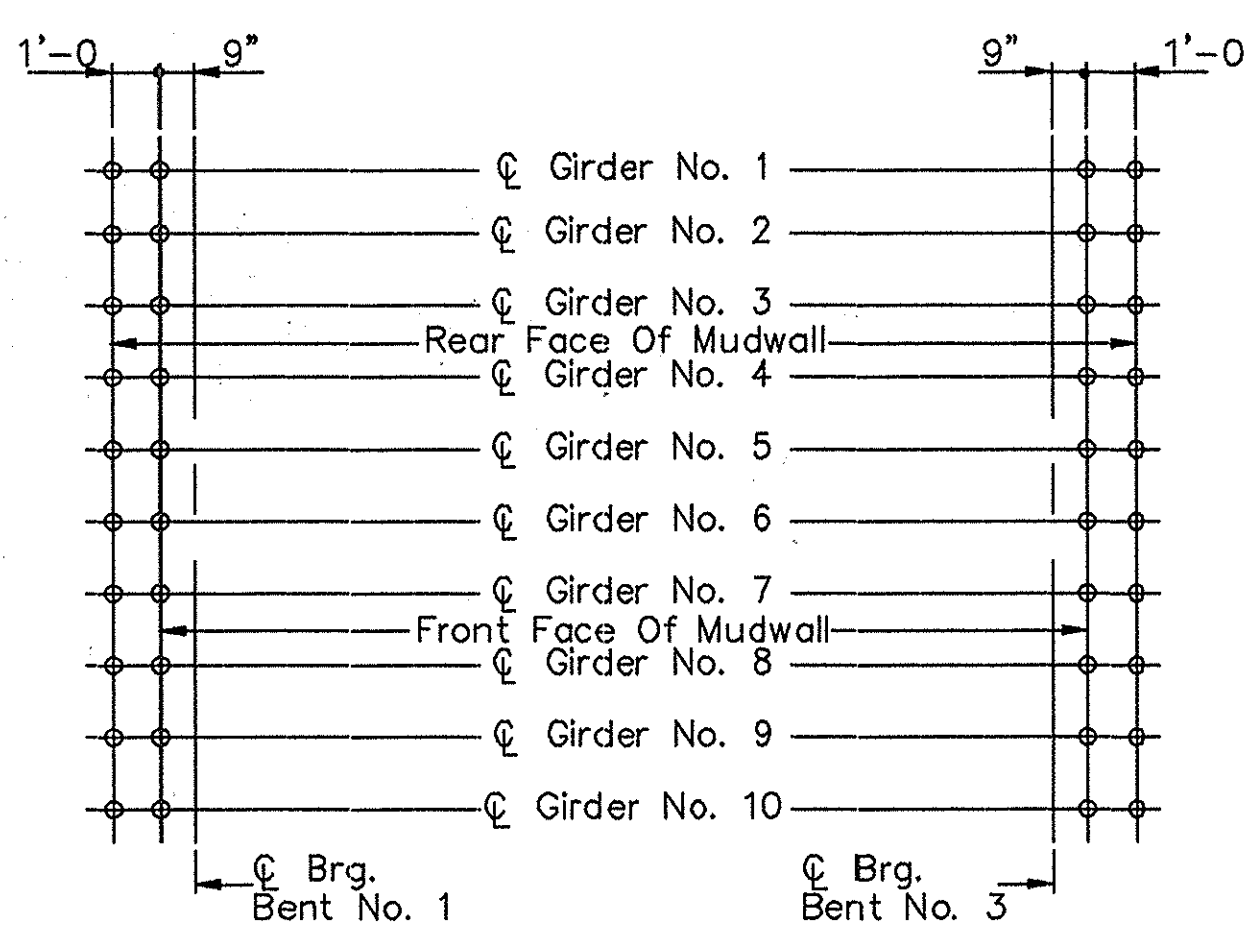
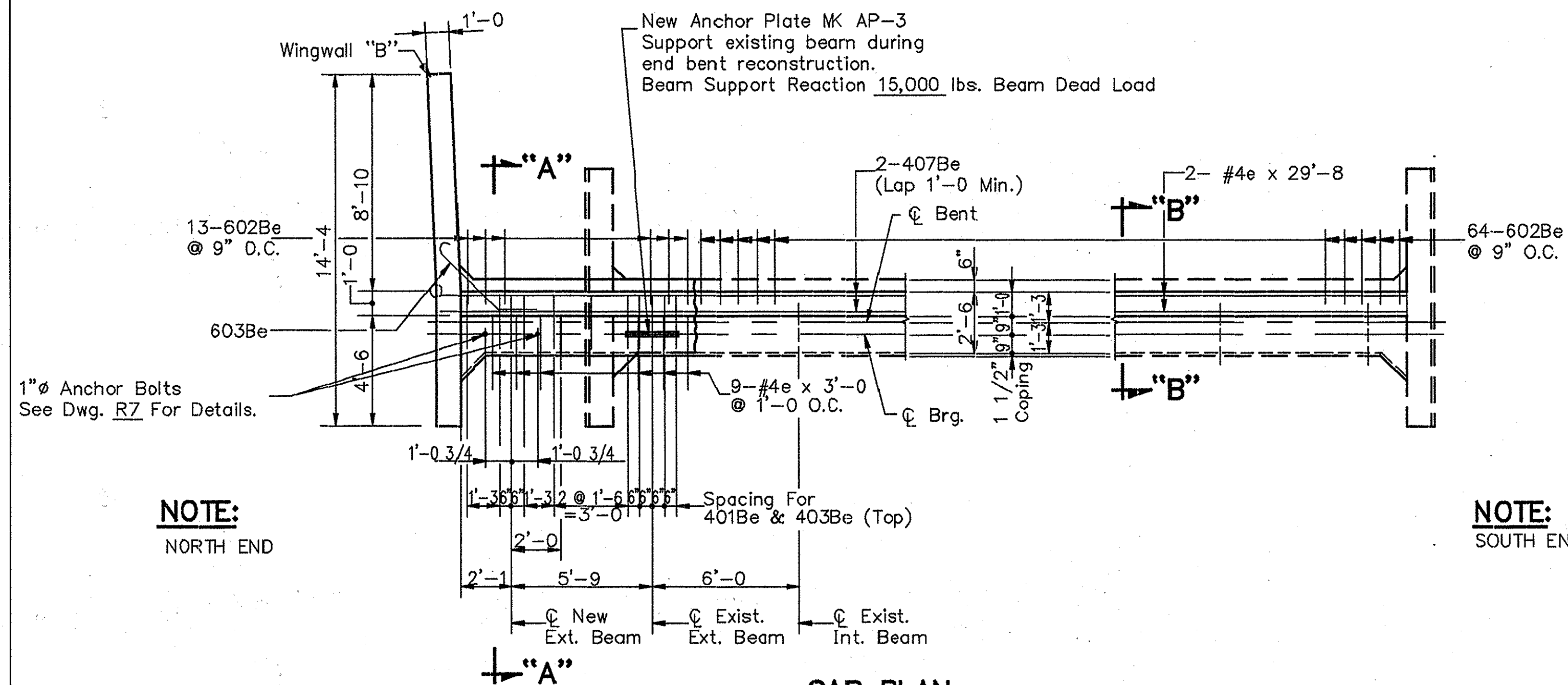


PILING:

4-14" Ø, 0.312" Thick, Steel Encased Concrete Piles x 27'-0 Long.

BILL OF MATERIALS

SIZE or MK	NO. of BARS	LENGTH	WEIGHT
601Be	6	10'-11"	
602Be	77	5'-2"	
603Be	3	5'-10"	
#6e	8	10'-3"	
TOTAL #6e			846#
#5e	23	14'-0"	
TOTAL #5e			336#
401Be	23	3'-2"	
402Be	14	7'-6"	
403Be	5	4'-10"	
404Be	10	15'-4"	
405Be	10	4'-3"	
406Be	12	10'-9"	
407Be	2	30'-0"	
408Be	6	4'-5"	
409Be	3	6'-1"	
#4e	2	29'-8"	
#4e	4	14'-0"	
#4e	12	8'-3"	
#4e	10	8'-1"	
#4e	3	4'-9"	
#4e	9	3'-0"	
TOTAL #4e			647#
TOTAL EPOXY COATED REINF.			1829#
CONCRETE			
POUR NO. 1			4.4 C.Y.
POUR NO. 2			2.8 C.Y.
TOTAL CL. "A" CONCRETE			7.2 C.Y.
POUR NO. 3			3.8 C.Y.
TOTAL CL. "C" CONCRETE			3.8 C.Y.
MISCELLANEOUS			
SURFACE SEAL			514 S.F.
ANCHOR PLATE MK AP-3			1 EACH
1-14"Ø, 0.312" THICK, STEEL ENCASED CONC. PILE x 27'-0"			27.0 L.F.
FIELD DRILLED HOLES IN CONCRETE			64 EACH



MUDWALL ELEVATIONS

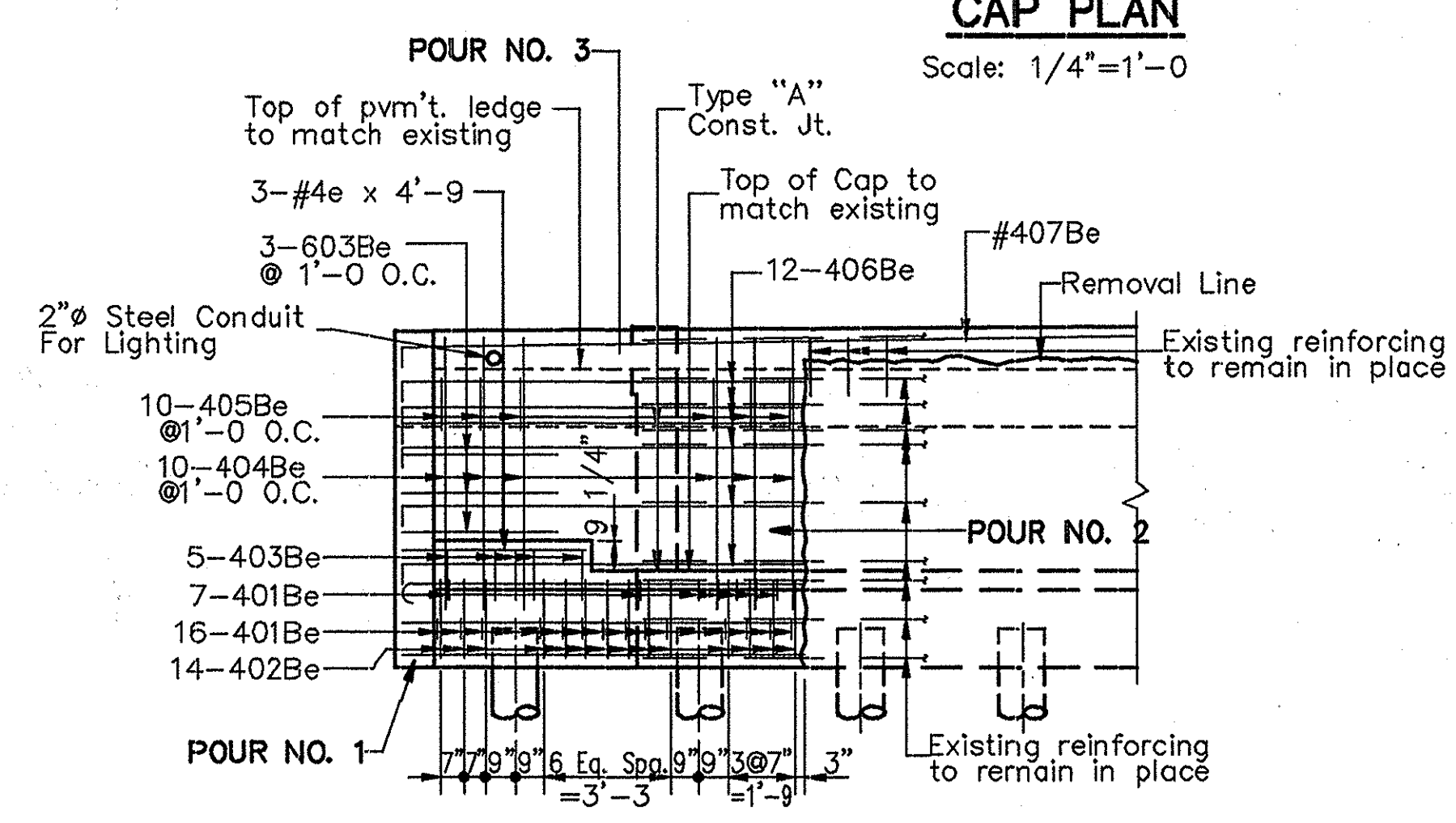
No Scale

Table Of Mudwall Elevations

Location	Grd. No. 1	Grd. No. 2	Grd. No. 3	Grd. No. 4	Grd. No. 5	Grd. No. 6	Grd. No. 7	Grd. No. 8	Grd. No. 9	Grd. No. 10
R.F. Mudwall Bent No. 1	720.07	720.16	720.25	720.35	720.44	720.53	720.63	720.53	720.44	720.35
F.F. Mudwall Bent No. 1	720.05	720.14	720.23	720.33	720.42	720.51	720.61	720.51	720.42	720.33
F.F. Mudwall Bent No. 3	715.02	715.11	715.20	715.30	715.39	715.48	715.58	715.48	715.39	715.30
R.F. Mudwall Bent No. 3	715.00	715.09	715.18	715.28	715.37	715.46	715.56	715.46	715.37	715.28

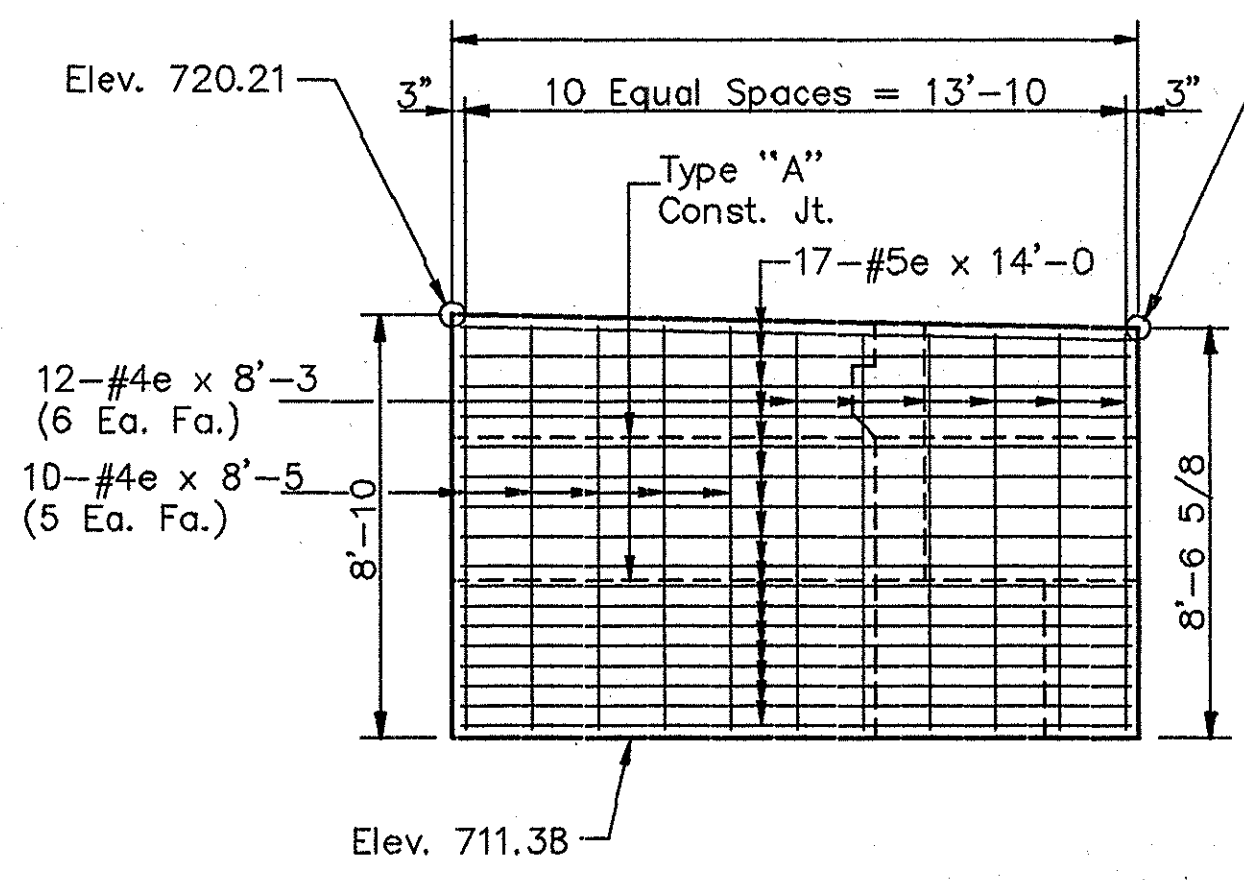
NOTE:
NORTH END

NOTE:
SOUTH END



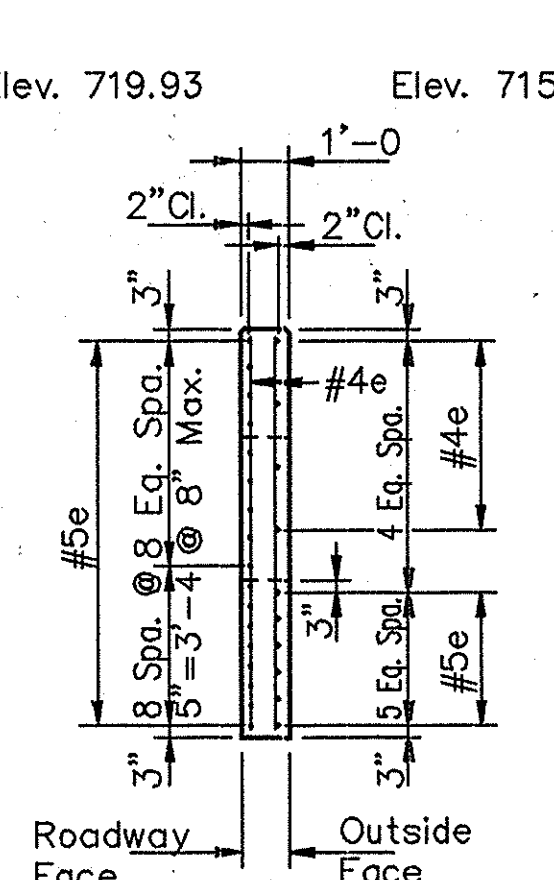
PARTIAL ELEVATION

Scale: 1/4"=1'-0



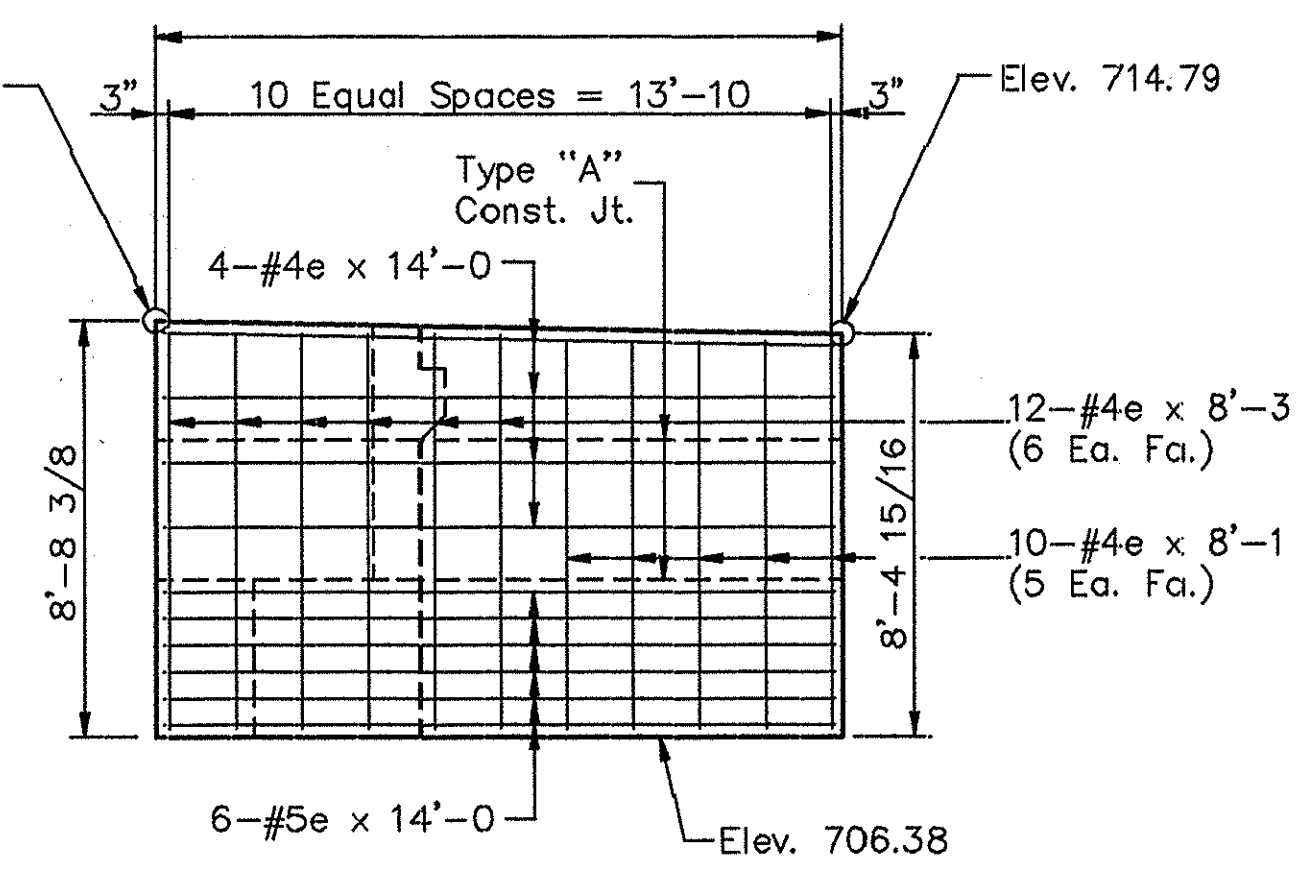
WINGWALL "A"

(SHOWING HORIZ. REINF. ROADWAY FACE)



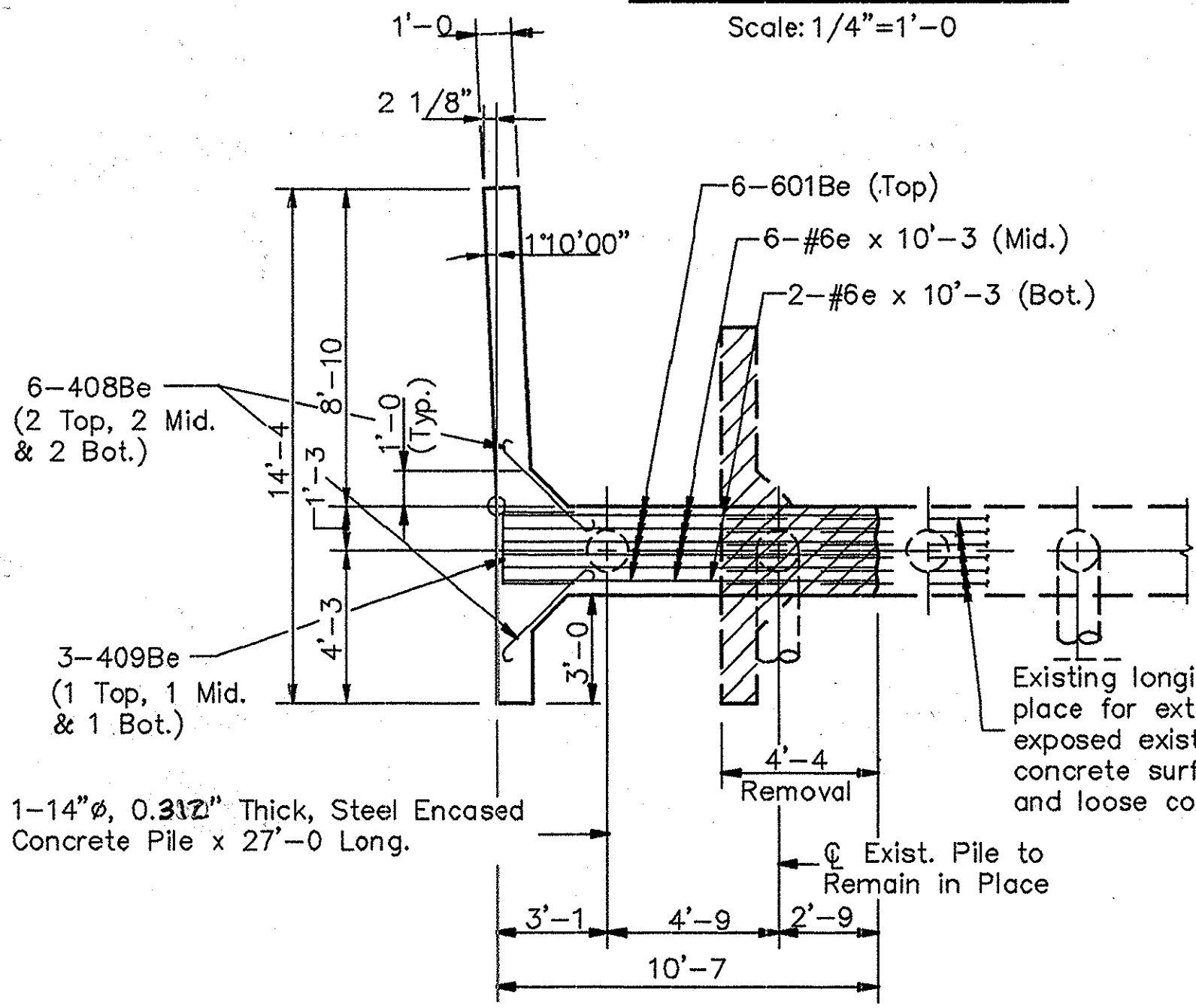
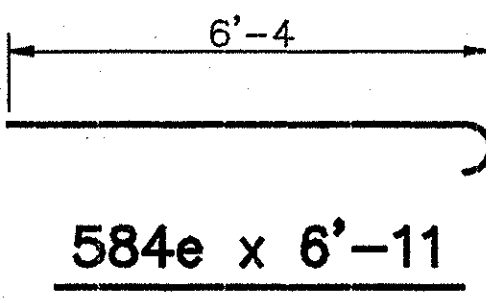
TYPICAL SECTION

(SHOWING HORIZ. REINF. OUTSIDE FACE)



WINGWALL "B"

(SHOWING HORIZ. REINF. OUTSIDE FACE)



PARTIAL PILE PLAN LAYOUT

Scale: 1/4"=1'-0

NOTES:

1. For additional notes, sections and details, see Dwg. R3.

BENT NO. 3
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED

DATE: **DECEMBER 18** 19**97**

John M. Broadus

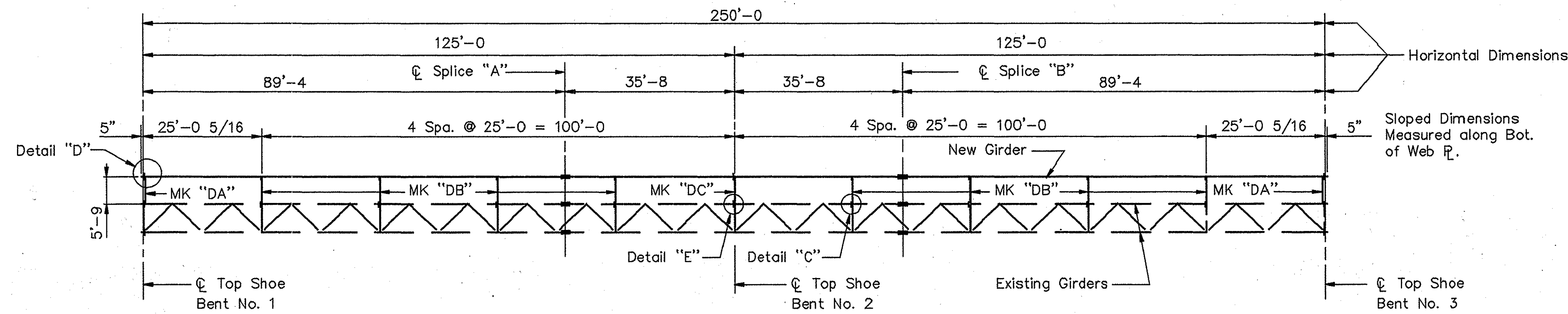
DRAWING: R6 OF R13 SHEET: 13 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-6597B



24WBBNT3/48

PLOT DATE & TIME: DEC 17, 1997 - 10:23:02

DESIGNED: J.B. CHECKED: J.B.
DRAWN: S.G.B./S.B. CHECKED: M.P./S.B.
REVISION: _____
SHEET REVISED: SEPTEMBER 24, 1992

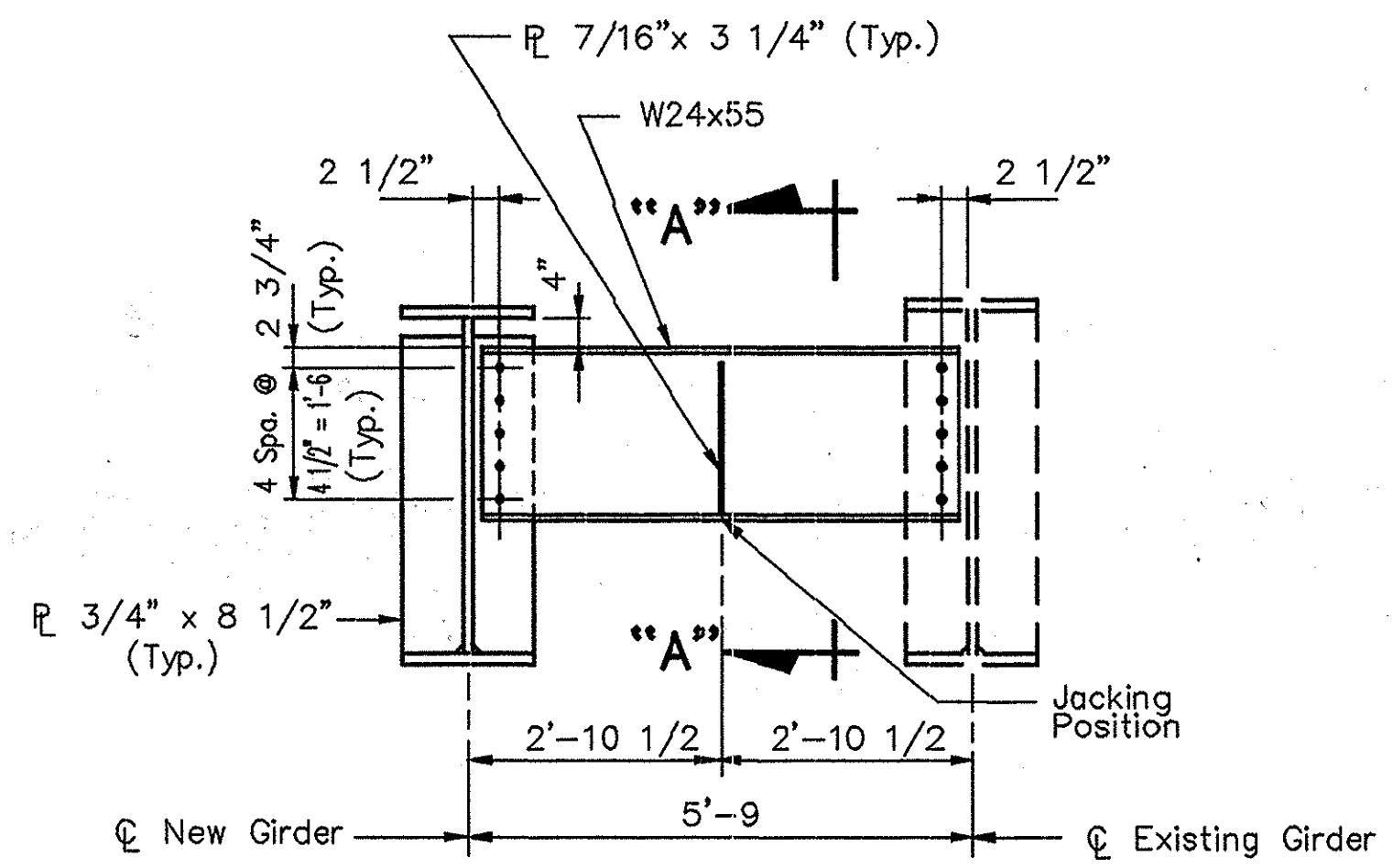


FRAMING PLAN

Scale: 1/16"=1'-0"

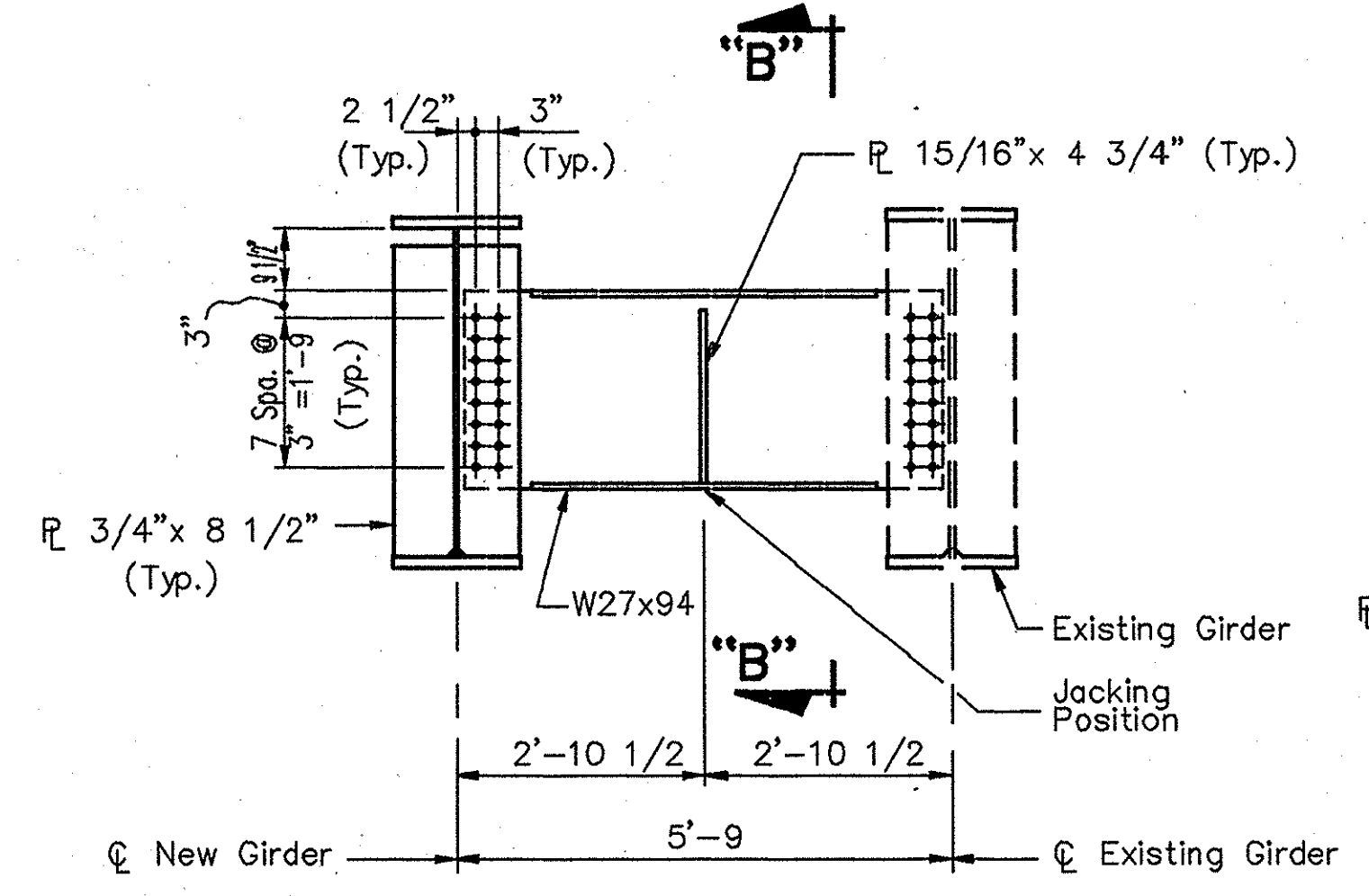
DESIGN DATA

Live Load	Designed for HS20-44 loading with impact and distribution of loads in accordance with 1992 AASHTO specifications, including 1993 Interim specifications. Checked for special loading of 2-24,000 LBS. axles spaced at 4'-0 centers.
Dead Load	Actual weight plus 19p.s.f. (composite) for future wearing surface.
Floor Slab	Designed for 16,000# wheel load plus impact. Structural depth of 6 1/2 inches.
Allowable Stresses	To be in accordance with 1992 AASHTO specifications, including 1993 Interim specifications.
Design Strengths	Class A concrete - $f'c = 3,500$ p.s.i. Class B concrete - $f'c = 3,000$ p.s.i. Class C concrete - $f'c = 4,000$ p.s.i. Reinforcing - $f_y = 60,000$ p.s.i.
Design Methods	Superstructure - Strength Design Method Substructures - Service Load Method
Seismic Criteria	Designed in accordance with Division I-A OF 1992 AASHTO Specifications, including 1993 Interim specifications, using Seismic Performance Category "A" and 0.05 acceleration coefficient.



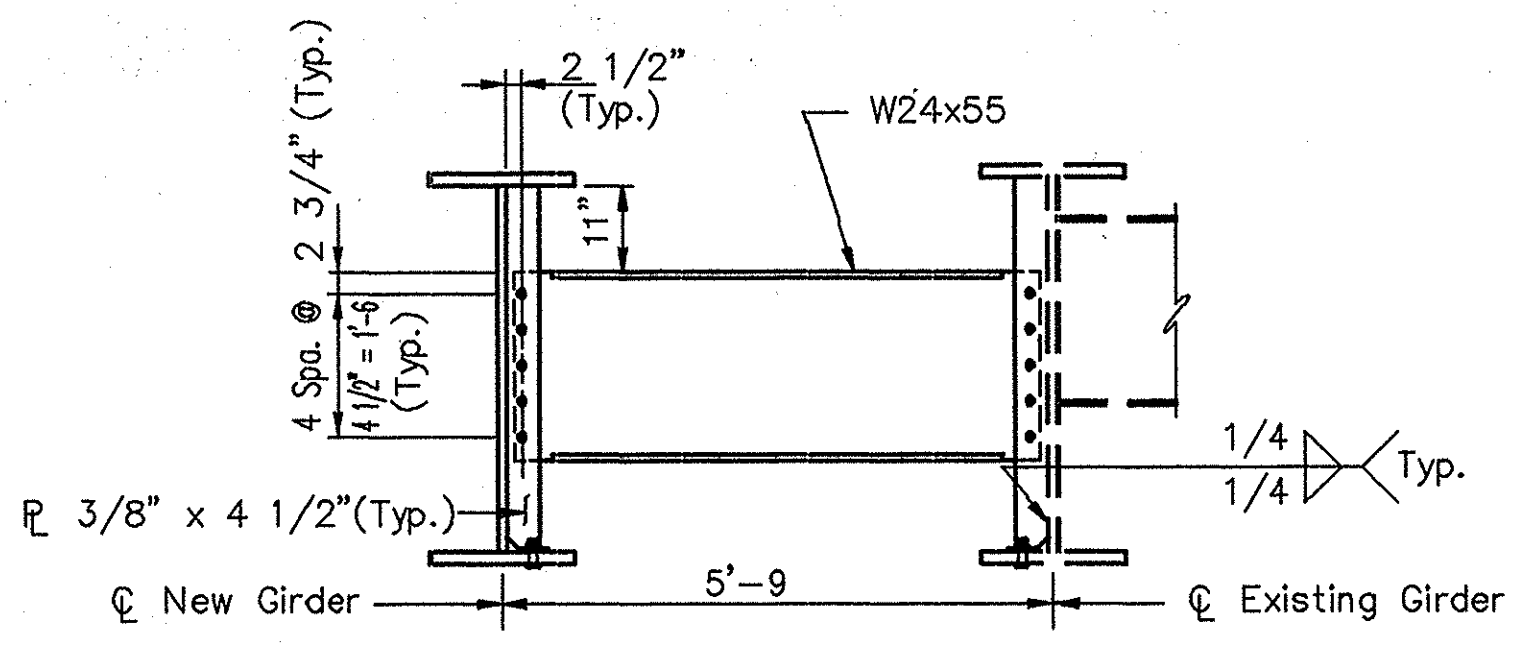
JACKING FRAME DETAIL MK "DA"

Scale: 1/2"=1'-0"



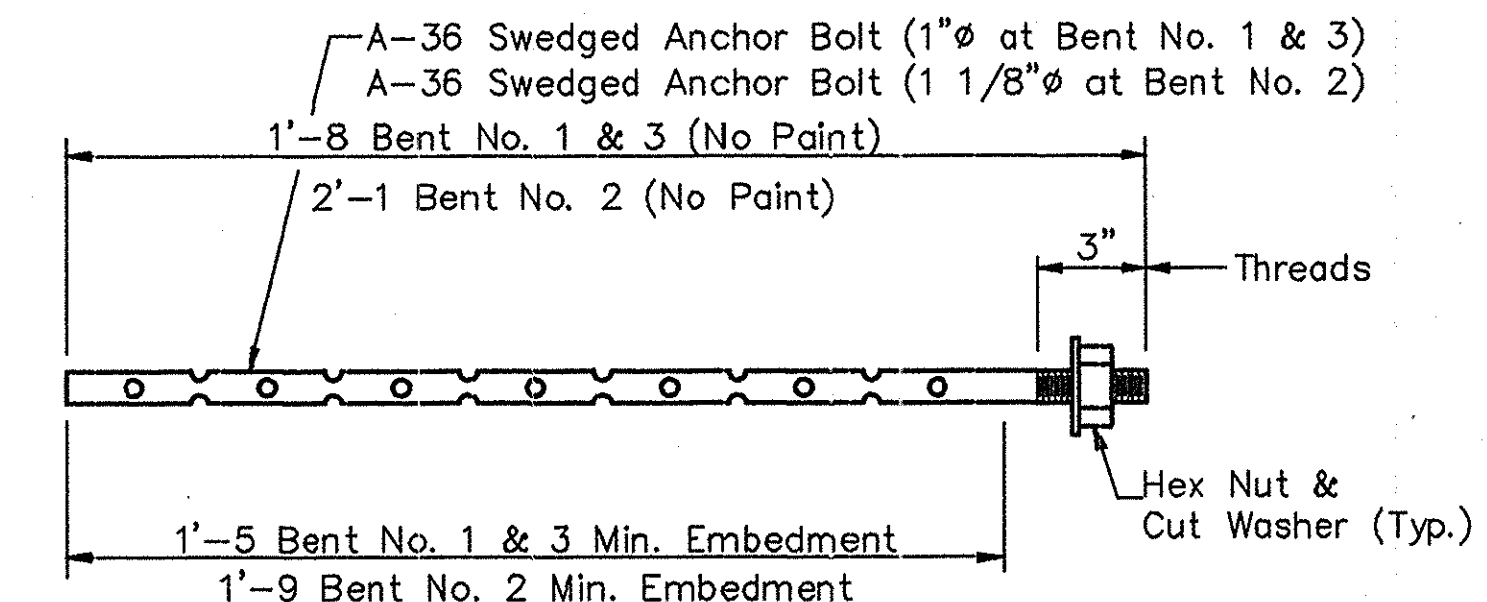
JACKING FRAME DETAIL MK "DC"

Scale: 1/2"=1'-0"



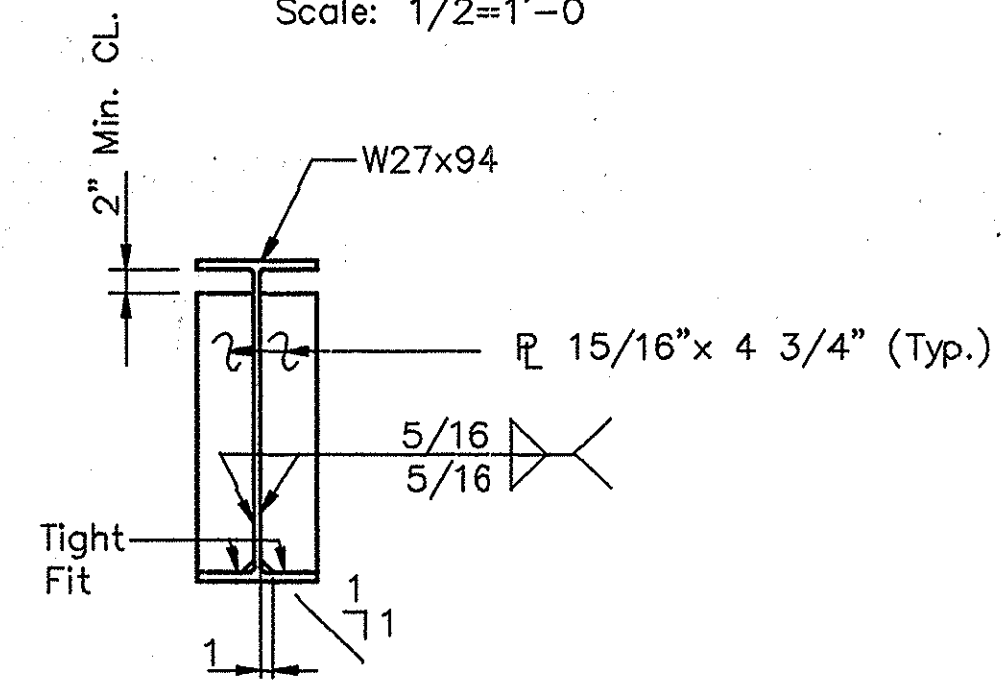
DIAPHRAGM DETAIL MK "DB"

Scale: 1/2"=1'-0"



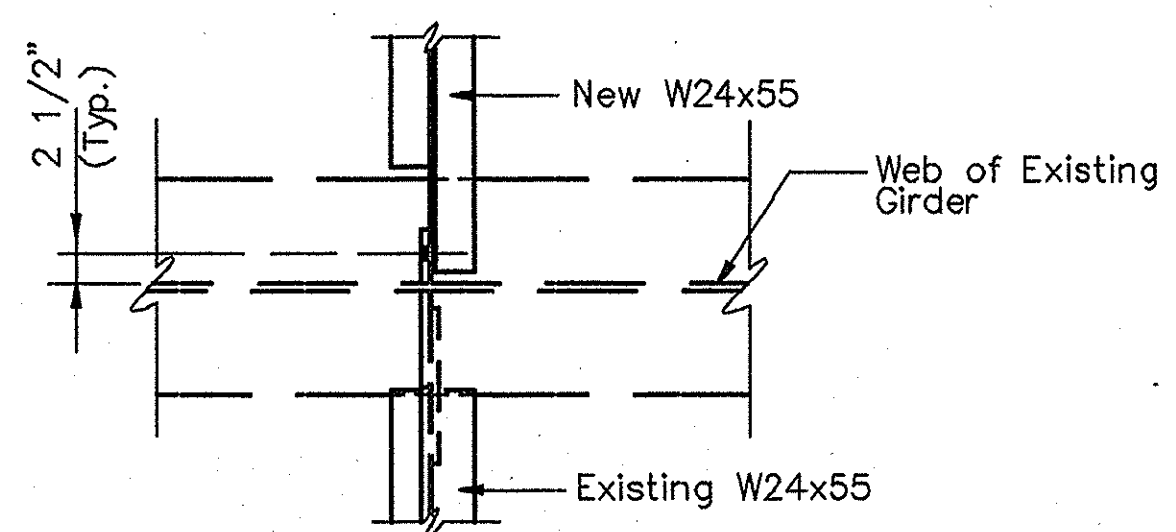
SWEDGED ANCHOR BOLT DETAIL

No Scale



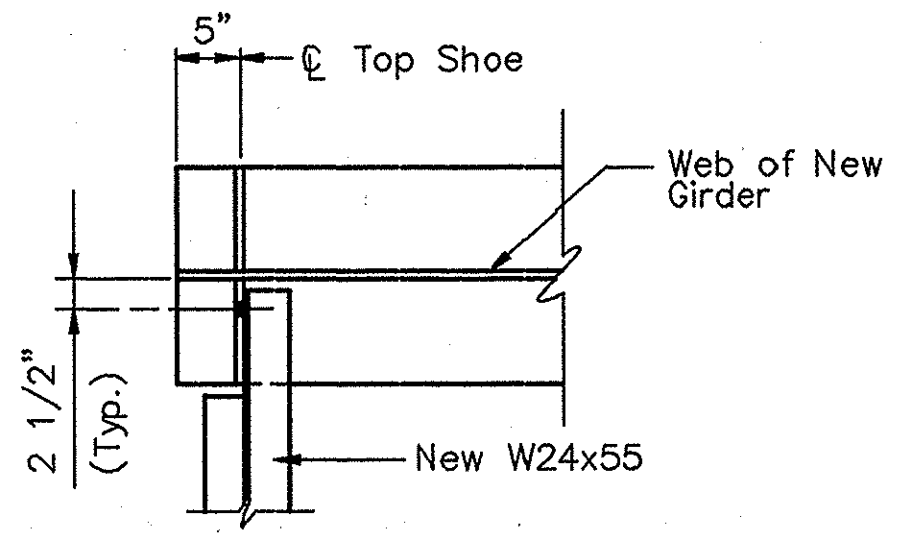
SECTION "B-B"

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



DETAIL "C"

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



DETAIL "D"

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

NOTES:

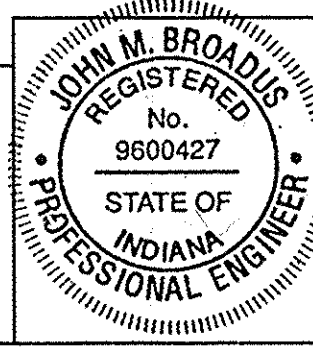
- The weight of high strength bolts is not included in the estimated weight of structural steel.
- Estimated weight of structural steel 84,895 lbs. (includes 263 lbs. for A-588.)
- For additional details, see Dwg's. R8 & R9.

FRAMING PLAN
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED

DATE: **DECEMBER 18** 19**97**

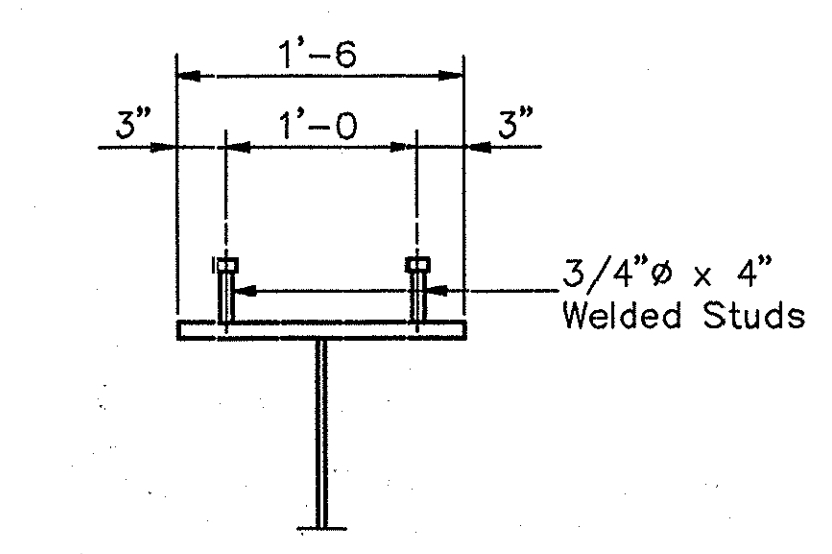
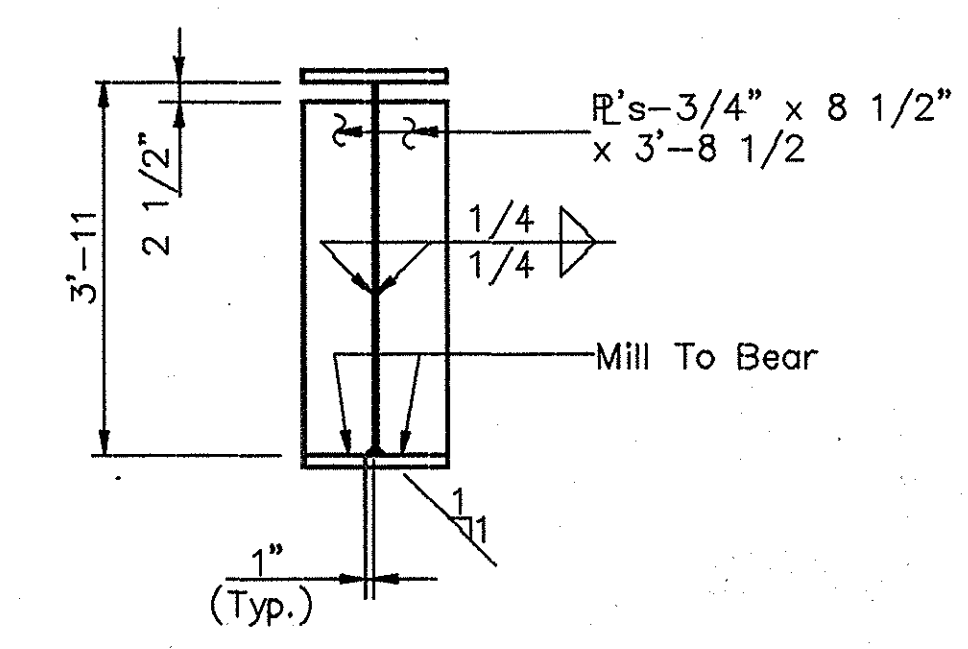
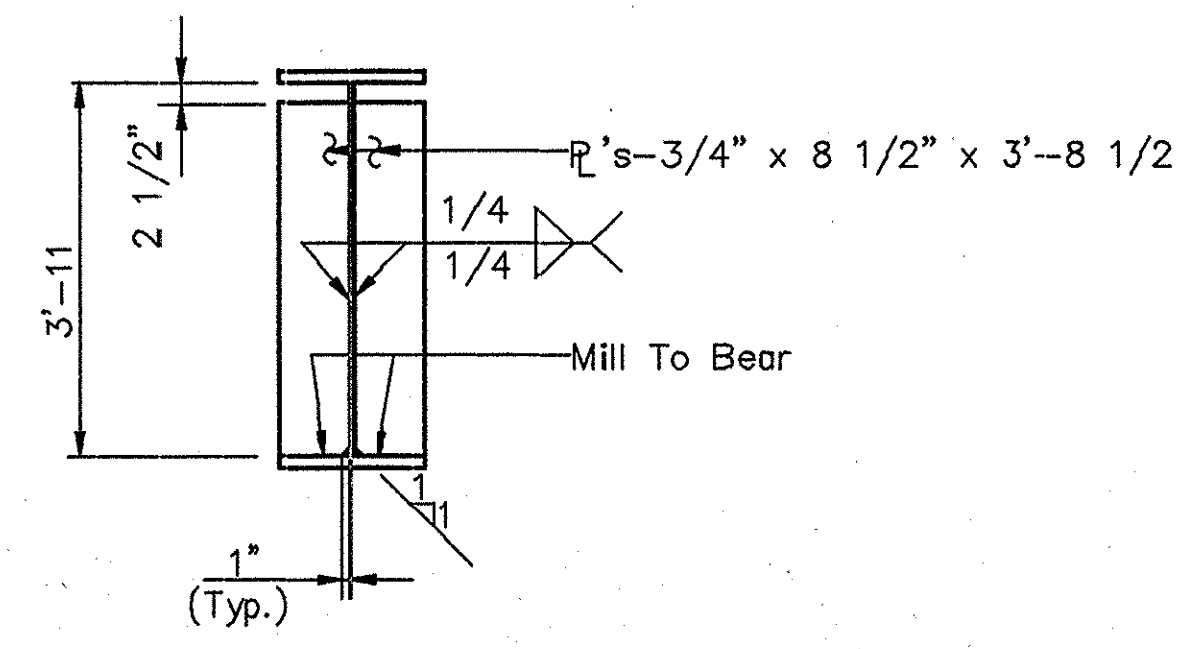
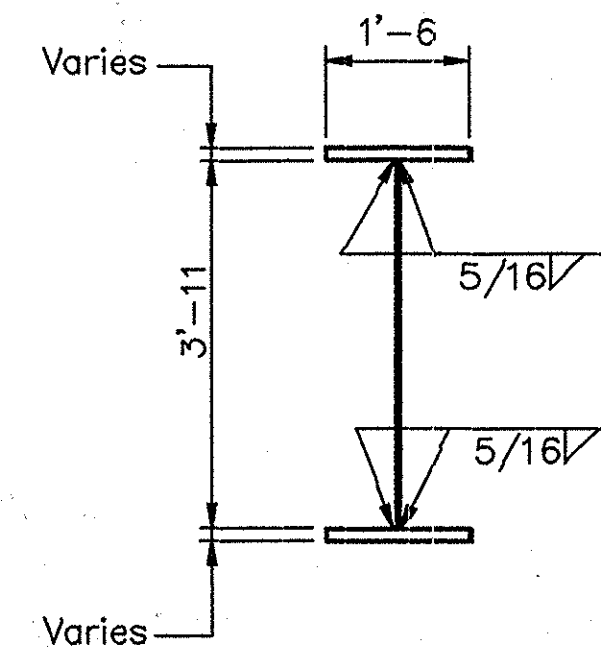
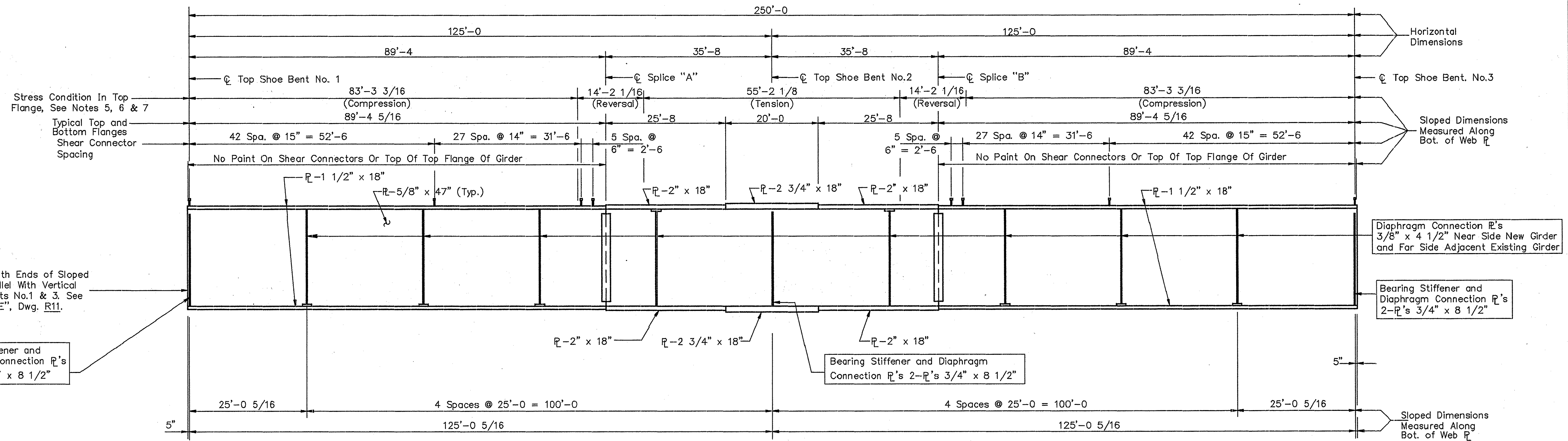
DRAWING: R7 OF R13 SHEET: 14 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-6597B



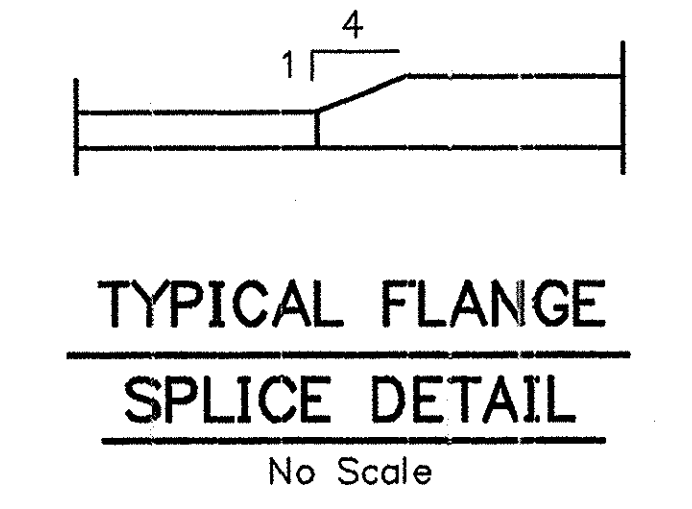
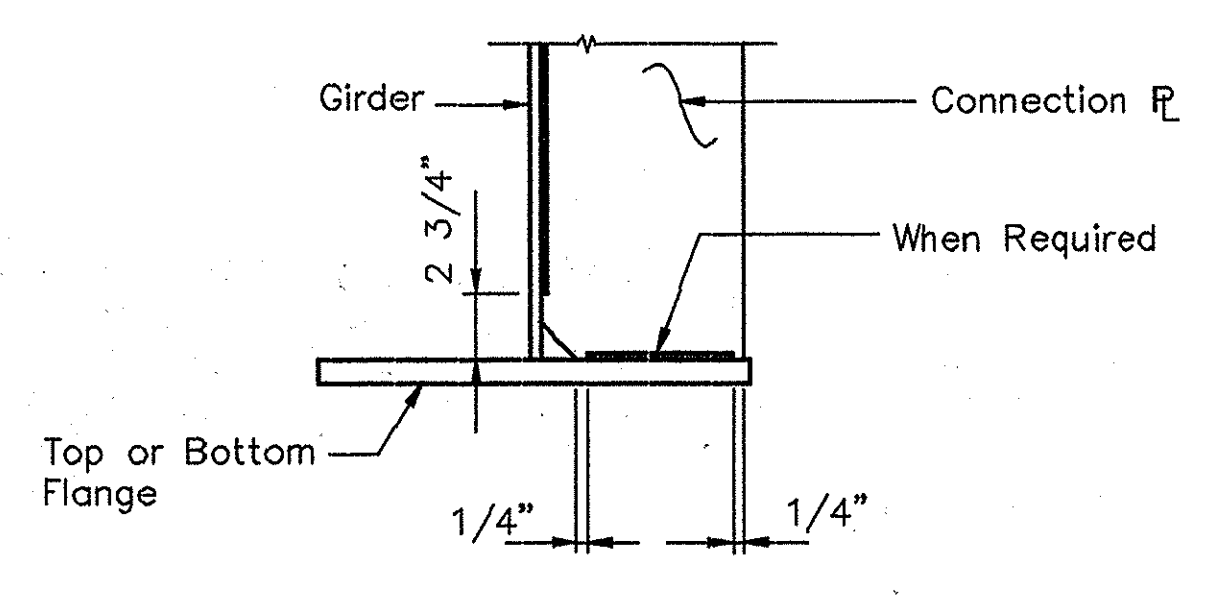
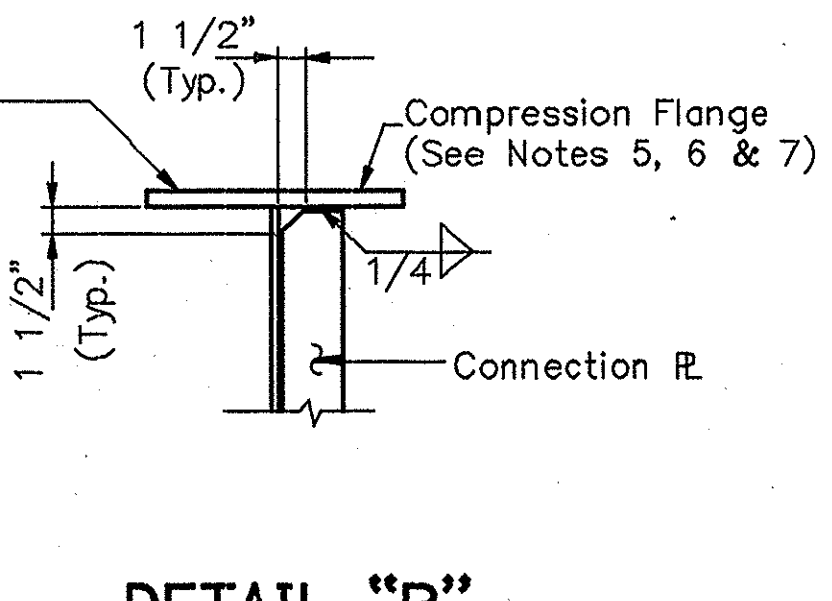
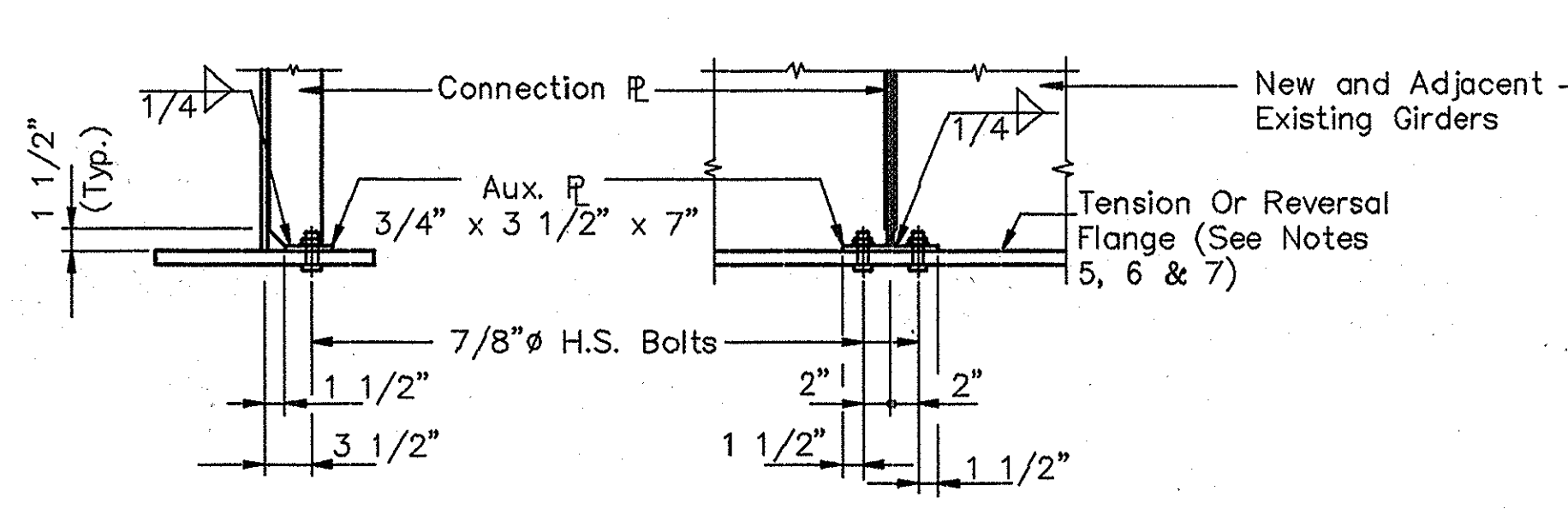
24WBFRAM/192

DESIGN: MP, CHECKED: JB
 DRAWN: MKM, B/83, CHECKED: MP, Z/84,
 REVISION: _____
 SHEET REVISED: SEPTEMBER 24, 1992
 PLOT DATE & TIME: DEC 18, 1997 - 11:20:54

PLOT DATE & TIME: DEC 17, 1997 - 10:28:46

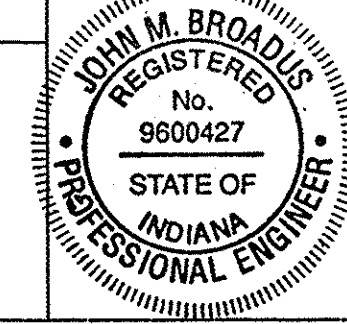


- NOTES:**
1. For splice details, see Dwg. R9.
 2. Clip corners of all stiffeners plates to clear plate girder welds, see details this sheet.
 3. For details of jacking frames and diaphragms, see Dwg. R7.
 4. All structural steel shall conform to ASTM A-36, except as noted on bearing details, Dwg. R9.
 5. Compression stress condition in top flange also indicates tension stress condition in bottom flange.
 6. Tension stress condition in top flange also indicates compression stress condition in bottom flange.
 7. Reversal stress condition in top flange also indicates reversal stress condition in bottom flange.
 8. Spacing for new shear connectors on existing girders same as shown on "New Girder Elevation", this Dwg.

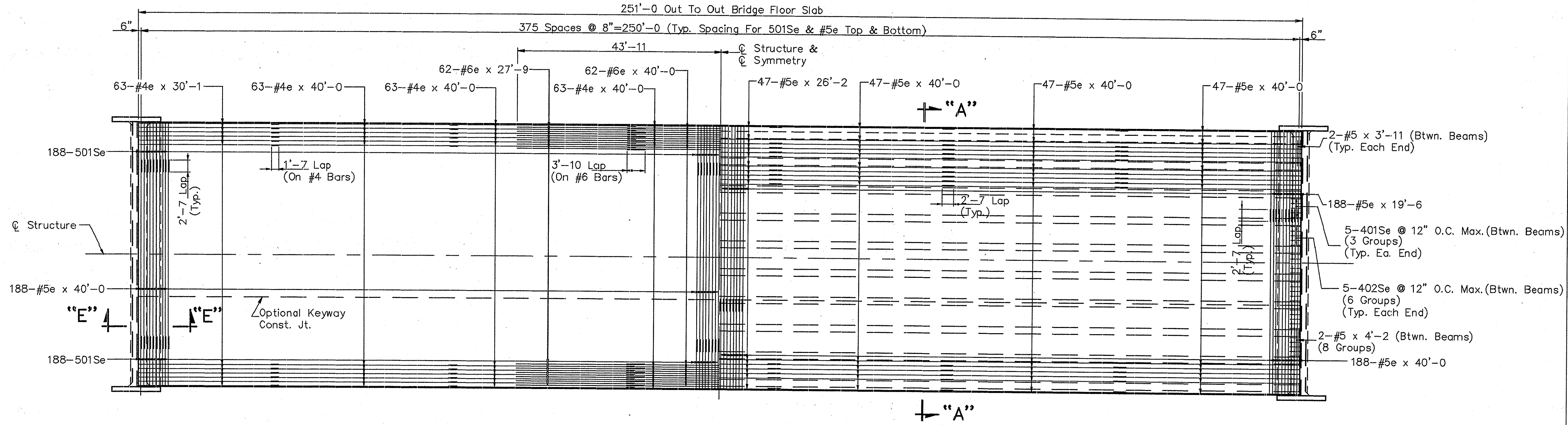


WELDED PLATE GIRDER DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED
 DATE: **DECEMBER 18** 19**97**
 DRAWING: R8 OF R13 SHEET: 15 OF 53
 PROJECT: NH-144-6(012)
 BRIDGE CONTRACT NO. R-23637
 BRIDGE FILE: 24-52-6597B



DESIGNED: M.P. 5/93, CHECKED: J.B. 8/93
 DRAWN: M.M. 8/93, CHECKED: M.P. 8/93
 REVISION: _____
 SHEET REVISED: SEPTEMBER 24, 1992



NOTE:

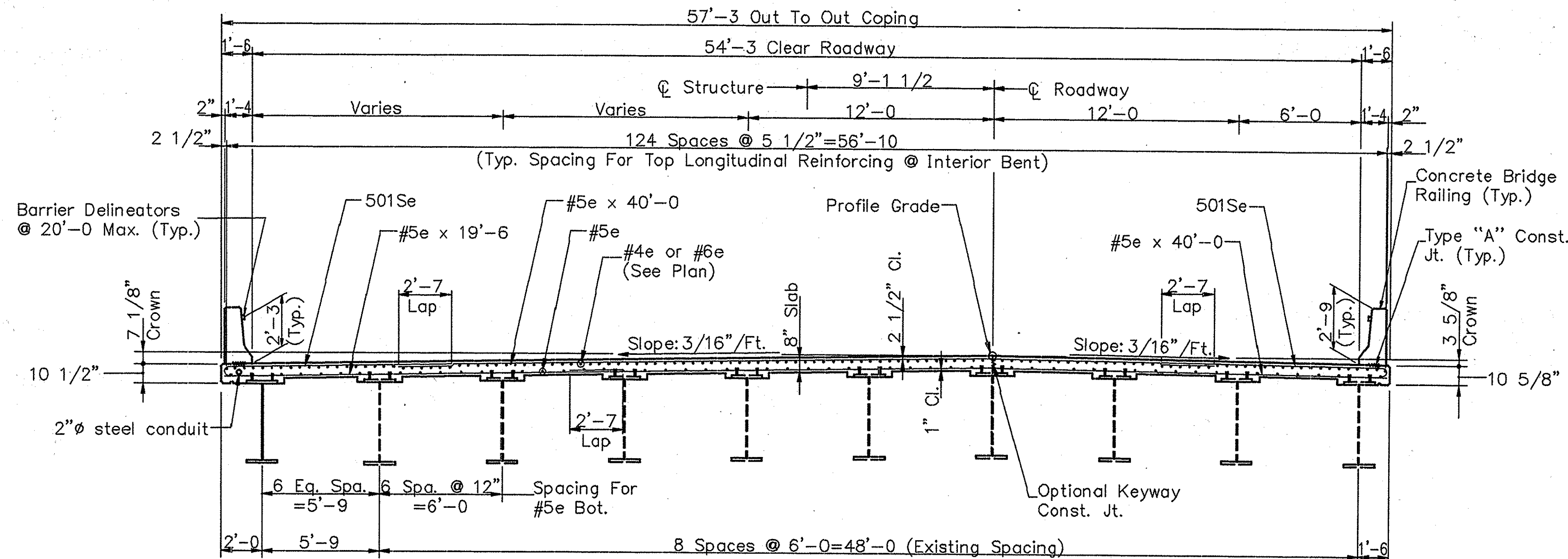
This half shows top slab reinforcing steel

NOTE:

This half shows bottom slab reinforcing steel

SUPERSTRUCTURE PLAN

Scale: 3/32"=1'-0"



SECTION "A-A"

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

NOTES:

1. For reinforcing bar notes, see Br. Std. C1.
2. After structural steel has been erected, concrete forms shall not be blocked against the expansion end of steel in making any pours adjacent to steel spans.
3. For general notes, see Dwg. R2.
4. Permanent metal deck forms shall not be substituted for removable forms at this structure.
5. The subscript "e" denotes epoxy coated reinforcing steel.
6. For additional sections and details, see Dwg. R11.

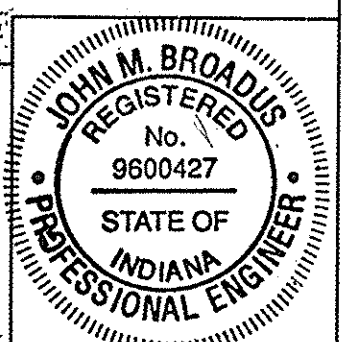
**SUPERSTRUCTURE
INDIANA DEPARTMENT OF TRANSPORTATION**

SCALE: AS NOTED

DATE: DECEMBER 18 1997

John H. Broadus

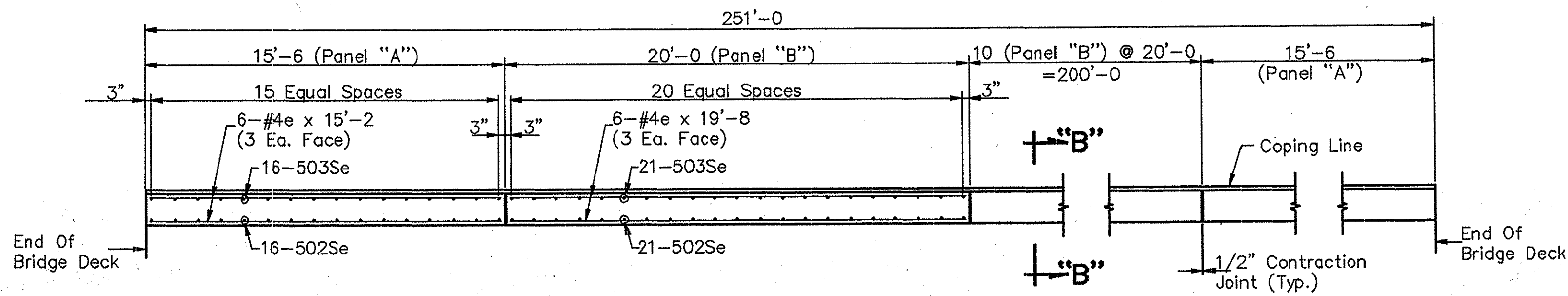
DRAWING: R10 OF R13 SHEET: 17 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-6597B



24WBSUP/128

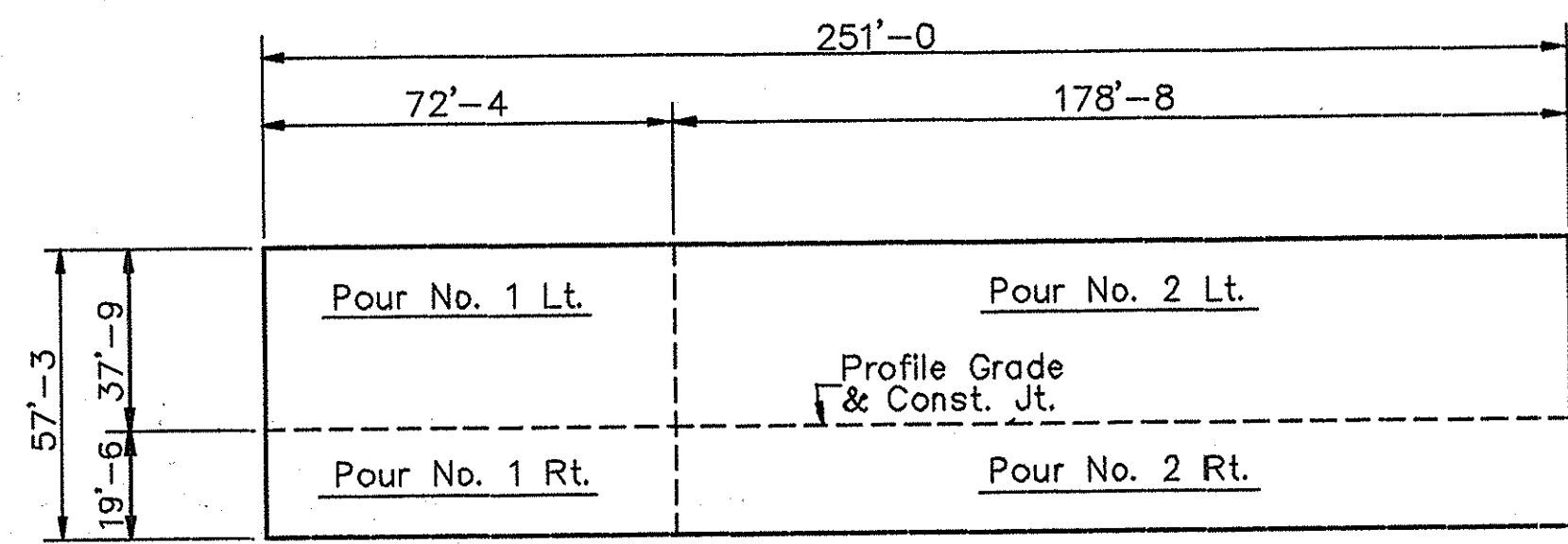
PLOT DATE & TIME: DEC 17, 1997 - 10:39:43

DESIGNED: M.B. 3/93 CHECKED: J.B. 3/93
DRAWN: S.G. 7/93 CHECKED: M.E. 9/93
REVISIONS: 1. 10/93
SHEET REVISED: SEPTEMBER 24, 1992



TYPICAL CONCRETE BRIDGE RAIL PLAN

Scale: 1/4"=1'-0



SCHEDULE OF POURS

No Scale

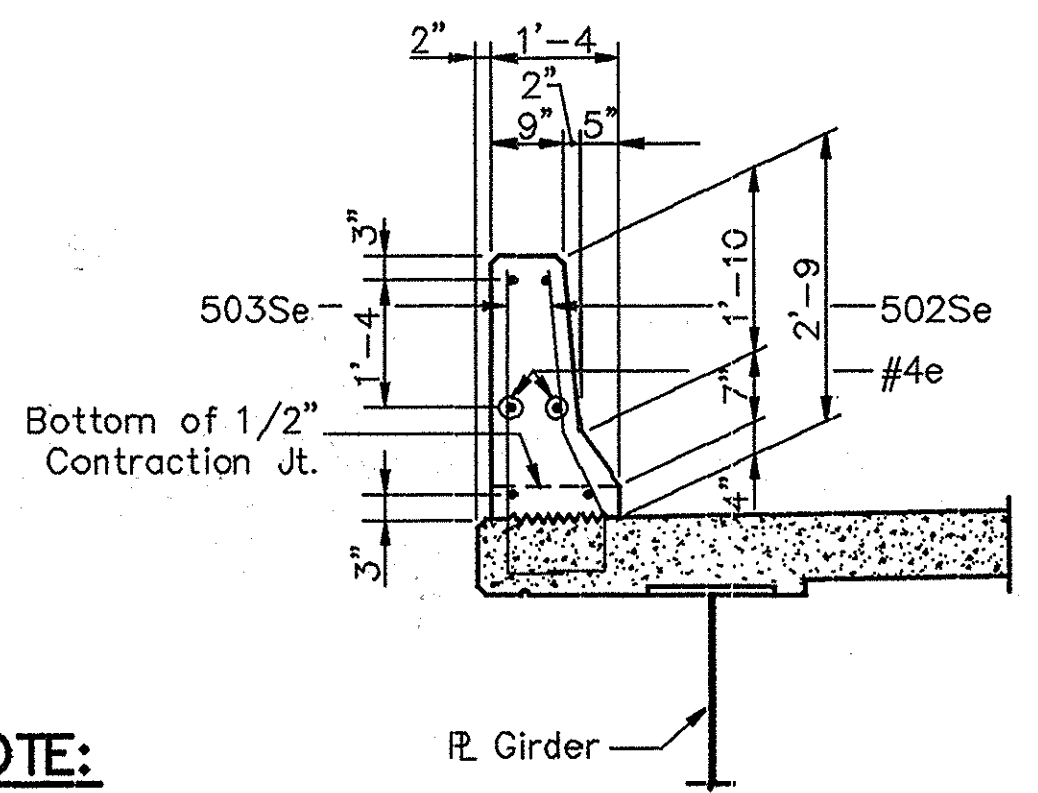
NOTE:

Sequence of pours to be made in the order of pour numbers. All superstructure construction joints are optional, except as noted, and pours may be made continuous provided the pours terminates at a construction joint indicated on the plans. The contractor may change the width of pours, sequence of pours or location of construction joints subject to the approval of the engineer.

BILL of MATERIALS

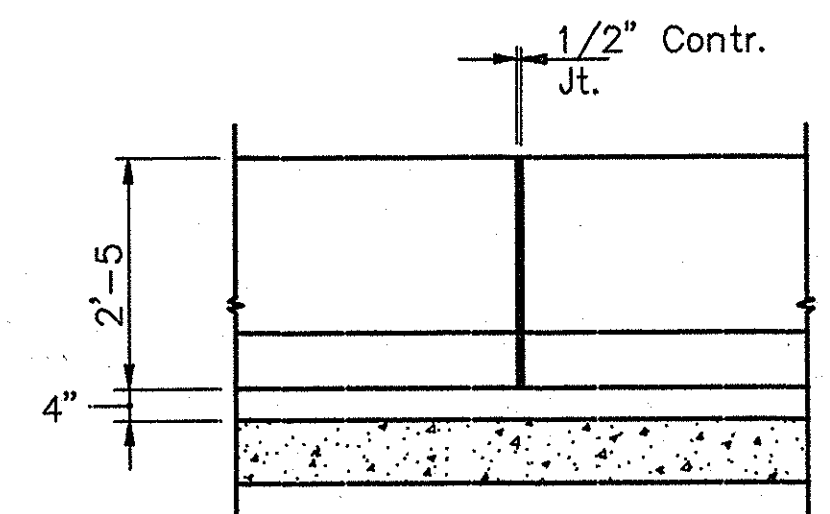
SIZE or MK	NO. of BARS	LENGTH	WEIGHT
#6e	62	40'-0	
#6e	124	27'-9	
TOTAL #6e			8894#
501Se	752	11'-8	
502Se	526	3'-11	
503Se	526	3'-9	
#5e	1034	40'-0	
#5e	47	26'-2	
#5e	376	19'-6	
#5e	32	4'-2	
#5e	4	3'-11	
#5e	16	3'-3	
#5e **	16	2'-6	
TOTAL #5e			65677#
401Se	30	3'-2	
402Se	60	3'-7	
#4e	315	40'-0	
#4e	126	30'-1	
#4e	132	19'-8	
#4e	24	15'-2	
#4e **	24	3'-9	
TOTAL #4e			13193#
TOTAL EPOXY COATED REINF.			87764#
CONCRETE			
POUR NO. 1 LT.			74.9 C.Y.
POUR NO. 1 RT.			38.9 C.Y.
POUR NO. 2 LT.			181.8 C.Y.
POUR NO. 2 RT.			94.3 C.Y.
TOTAL CL. C CONC. IN SLAB			589.9 C.Y.
TOTAL CL. C CONC. IN RAIL**			49.3 C.Y.
MISCELLANEOUS			
SURFACE SEAL			17815 S.F.
CLASS "S-S" EXP. JT.			112 L.F.
1-TYPE "SQ-A" ROADWAY DRAIN			192#
1-TYPE "OS-D" ROADWAY DRAIN			322#
1-6" CAST IRON DRAIN			
PIPE X 5'-0 LONG (EXTRA HEAVY)			95#
1-6" CAST IRON DRAIN			
PIPE X 5'-7 LONG (EXTRA HEAVY)			106#
BARRIER DELINEATORS			26 EACH
2" STEEL CONDUIT			251 L.F.
BEARING ASSEMBLY, TYPE I			2 EACH

** See Br. Std. BR-1A for additional railing pour and bar placement details.



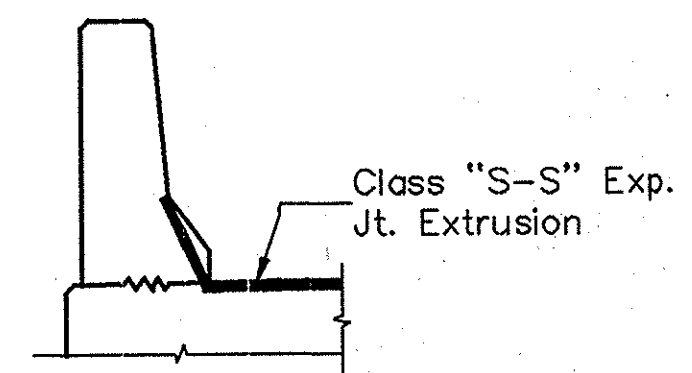
SECTION "B-B"

Scale: 1/2"=1'-0



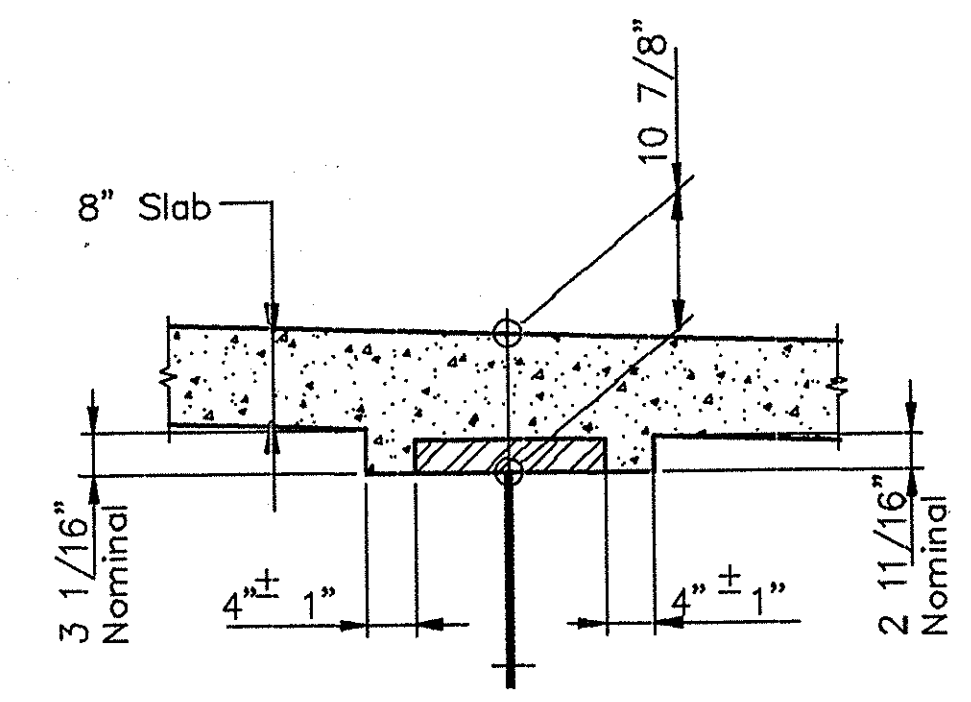
RAILING CONTRACTION JOINT DETAIL

Scale: 1/2"=1'-0



JOINT TREATMENT AT BRIDGE RAIL

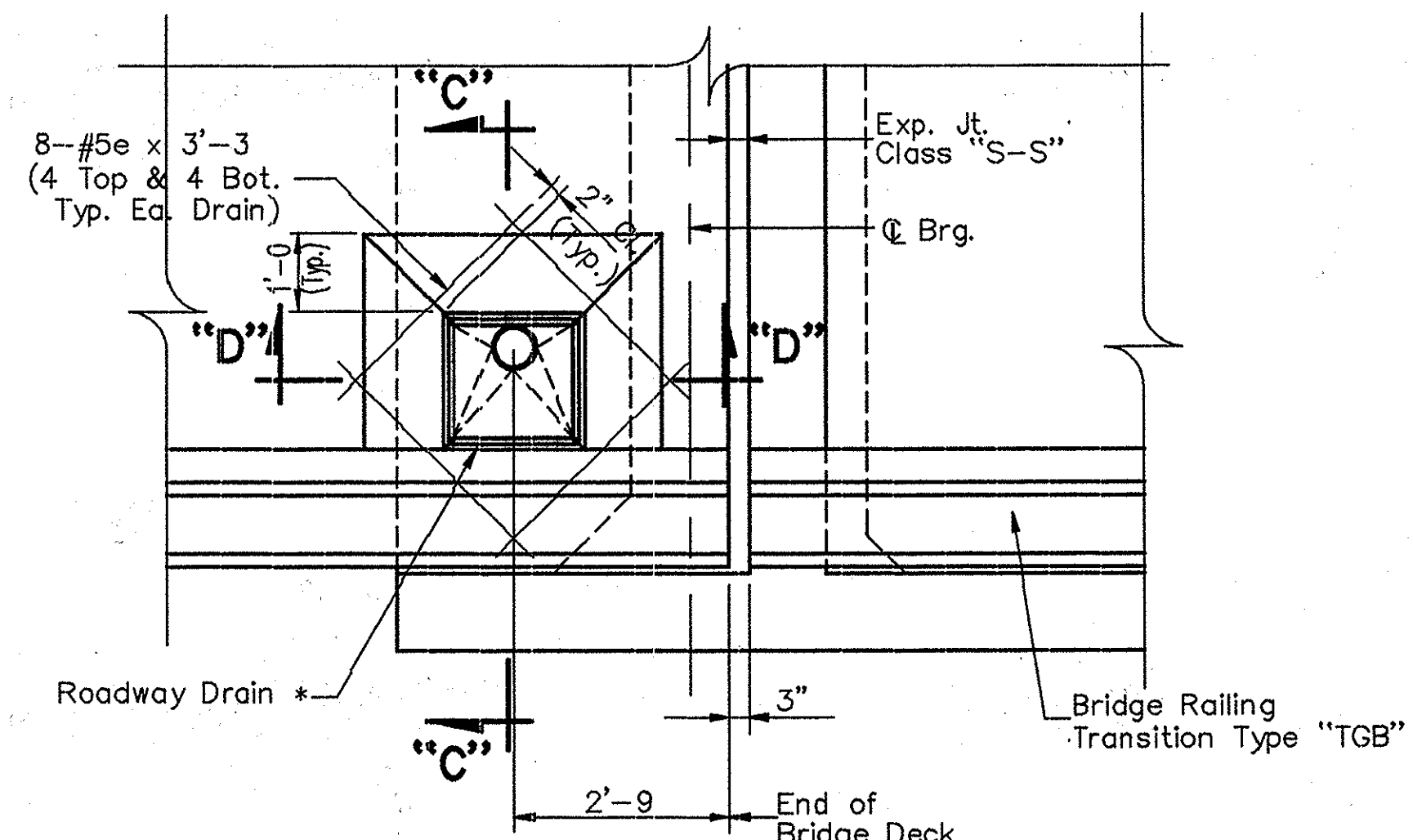
Scale: 1/2"=1'-0



FILLET DETAIL

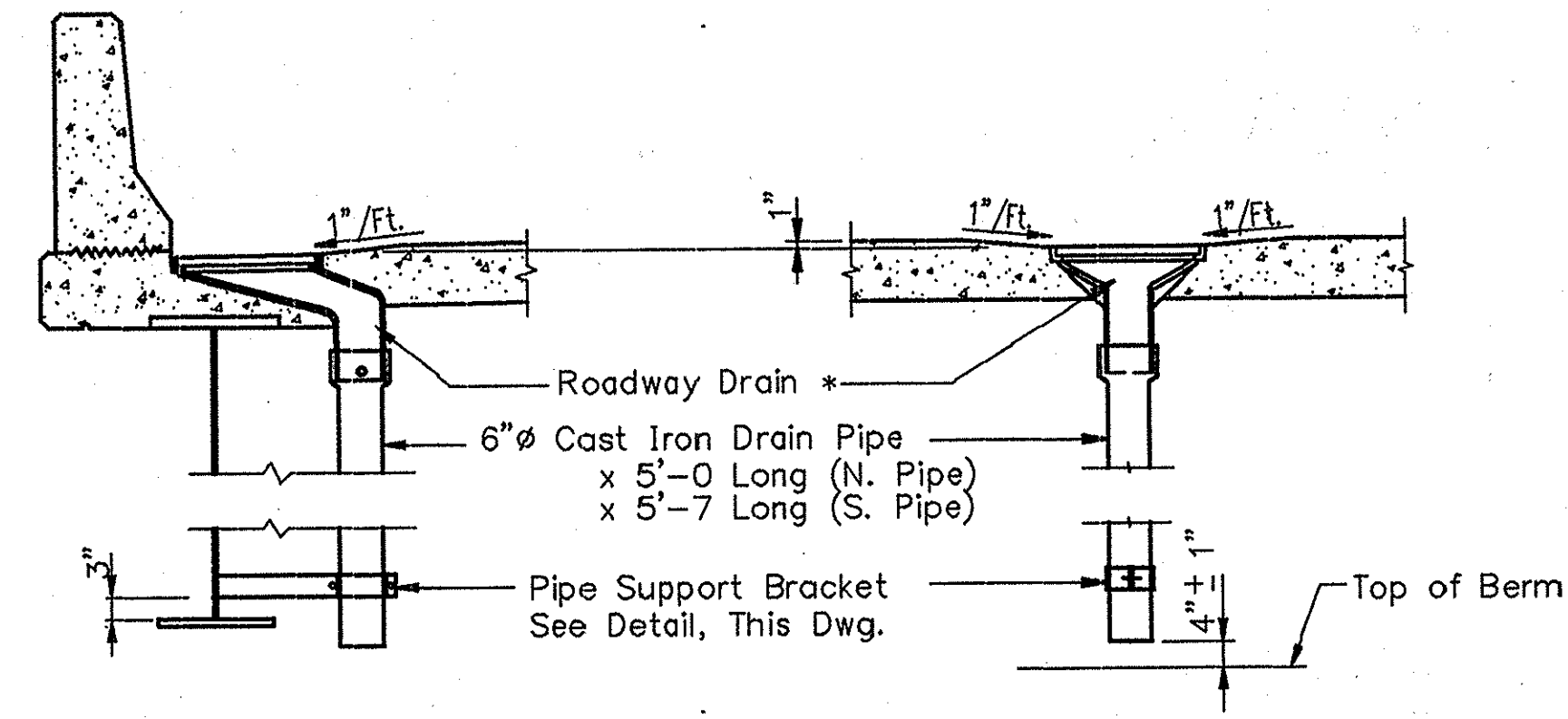
No Scale

NOTE:
For optional splice in vertical railing reinforcing steel, see Br. Std. C3.



CORNER DETAIL

(S.E. Corner Shown - All Others Similar)
Scale: 1/2"=1'-0



SECTION "C-C"

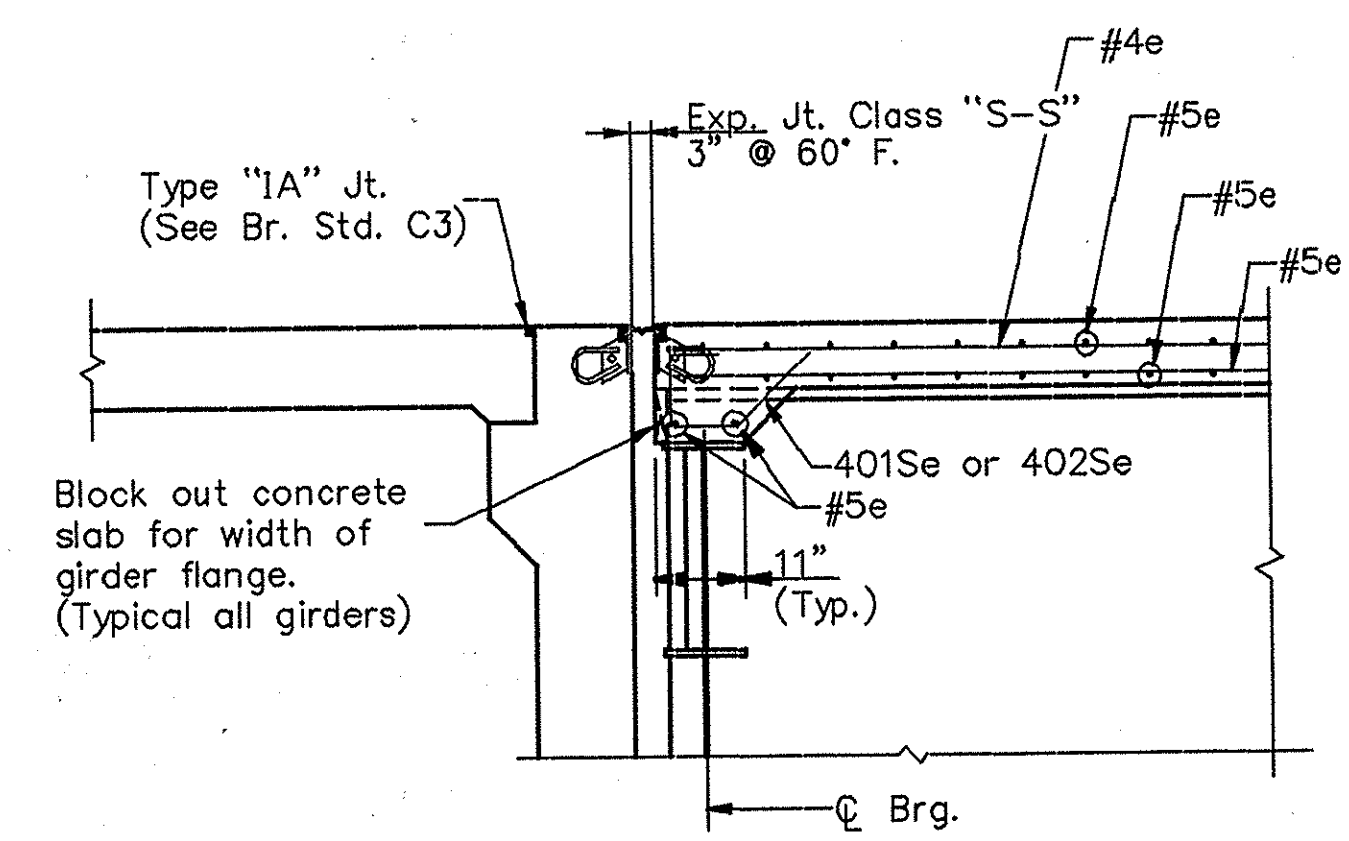
Scale: 1/2"=1'-0

SECTION "D-D"

Scale: 1/2"=1'-0

NOTE:

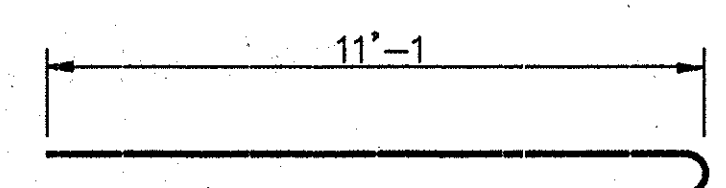
* See Dwg. R2 For Types of Roadway Drains.



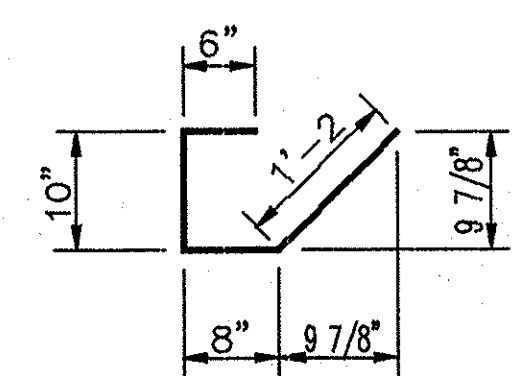
SECTION "E-E"

Scale: 1/2"=1'-0

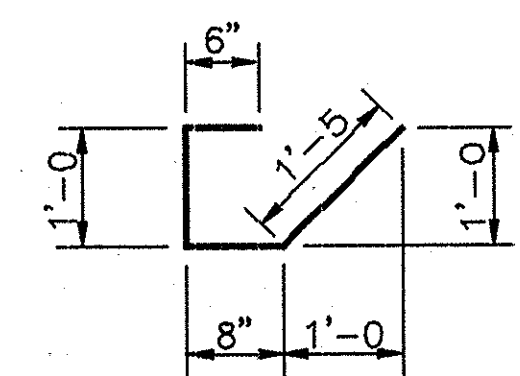
503Se x 3'-9 502Se x 3'-11



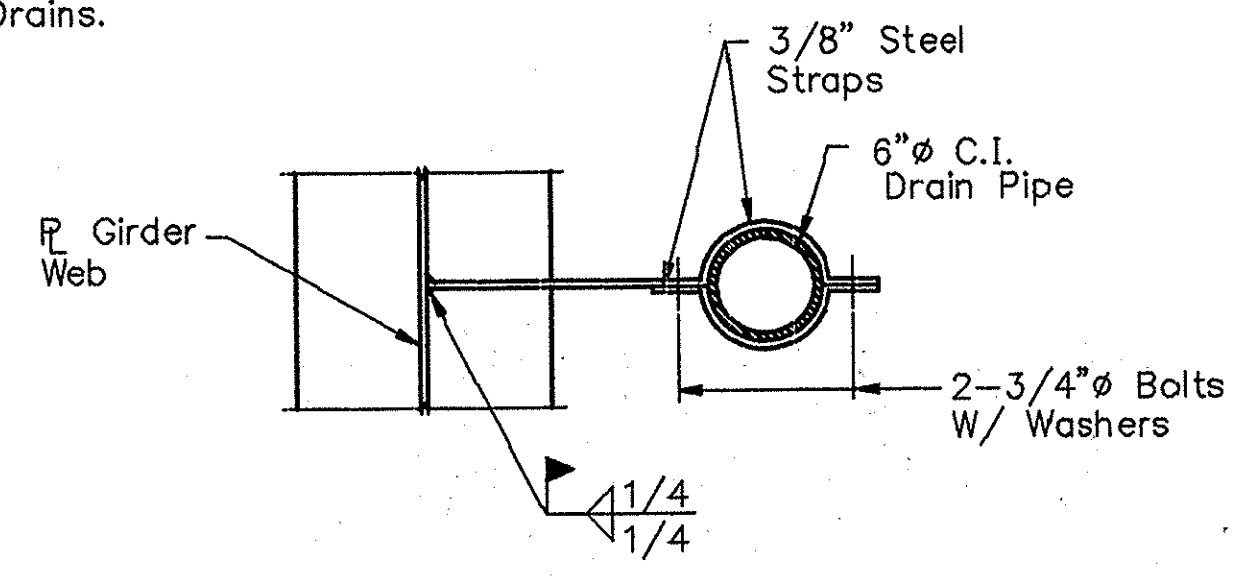
501Se x 11'-8



401Se x 3'-2



402Se x 3'-7



PIPE SUPPORT BRACKET DETAIL

No Scale

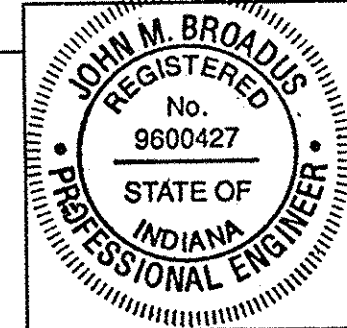
SUPERSTRUCTURE DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED

DATE: DECEMBER 18 1997

John H. Broadus

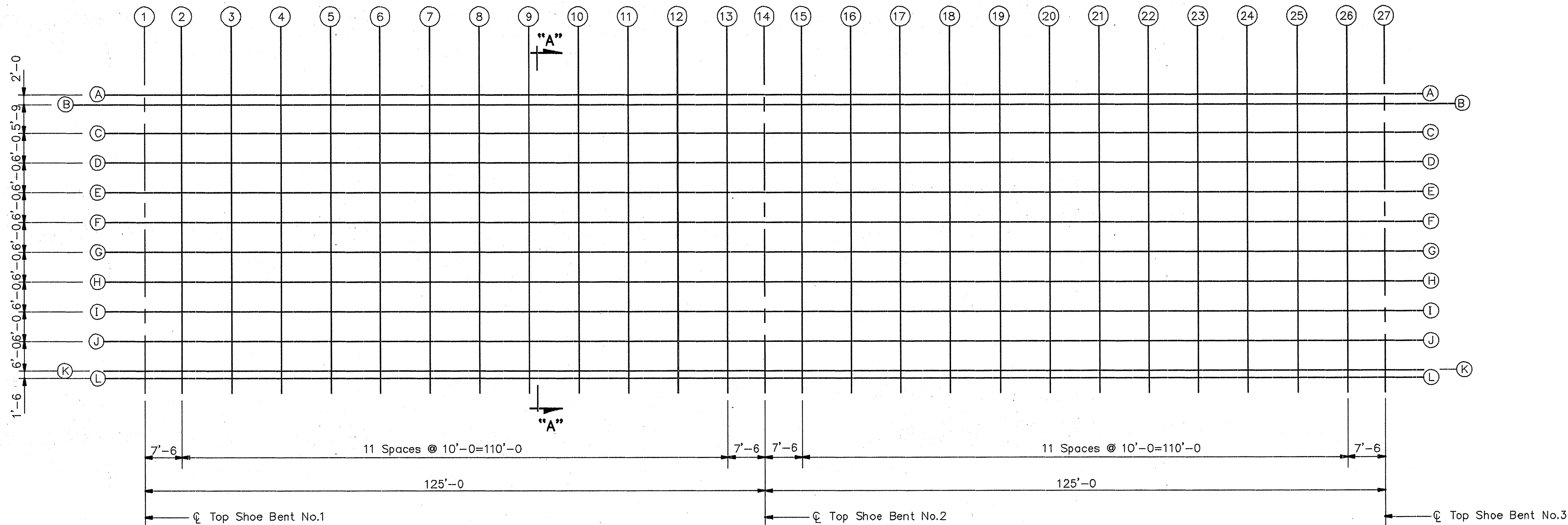
DRAWING: R11 OF R13 SHEET: 18 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-6597B



24WBSUPD/48

DESIGNED: ME 5/93 CHECKED: JB
DRAWN: SS 8/93 CHECKED: ME 8/93
REVISIONS: SHEET REVISIONS: SEPTEMBER 24, 1992
PLOT DATE & TIME: DEC 17, 1997 - 10:47:22

PLOT DATE & TIME: DEC 17, 1997 - 10:59:49



SCREED PLAN

Scale: 3/32"=1'-0"

NOTES:

1. "Screed Plan" shows location of screeds.
2. Table of "Screed Elevations", Dwg. R13 shows data for setting screed and coping forms so that the slab and coping will be at final grade elevation after all concrete has been poured.
3. See Dwg. R2 for General Notes.
4. See Dwg's. R10 & R11 for Additional Notes and Details.

GENERAL PROCEDURE

1. After all structural steel has been erected, take the elevations at all screed points on top of adjacent girders. Enter the elevations in the screed table, Dwg. R13. Subtract these elevations from the tabulated elevations and use the resulting dimension as the height for setting the screed or coping forms above that point. This dimension remains unchanged regardless of how much or in what order the concrete is poured. Do not set screed or coping forms by leveling.
2. No concrete in the deck is to be poured until the above operation is complete.

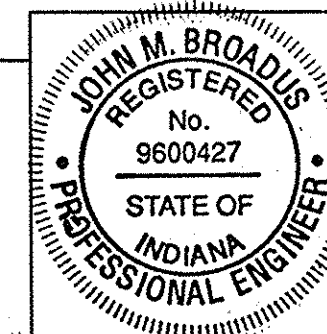
SCREED DATA
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED

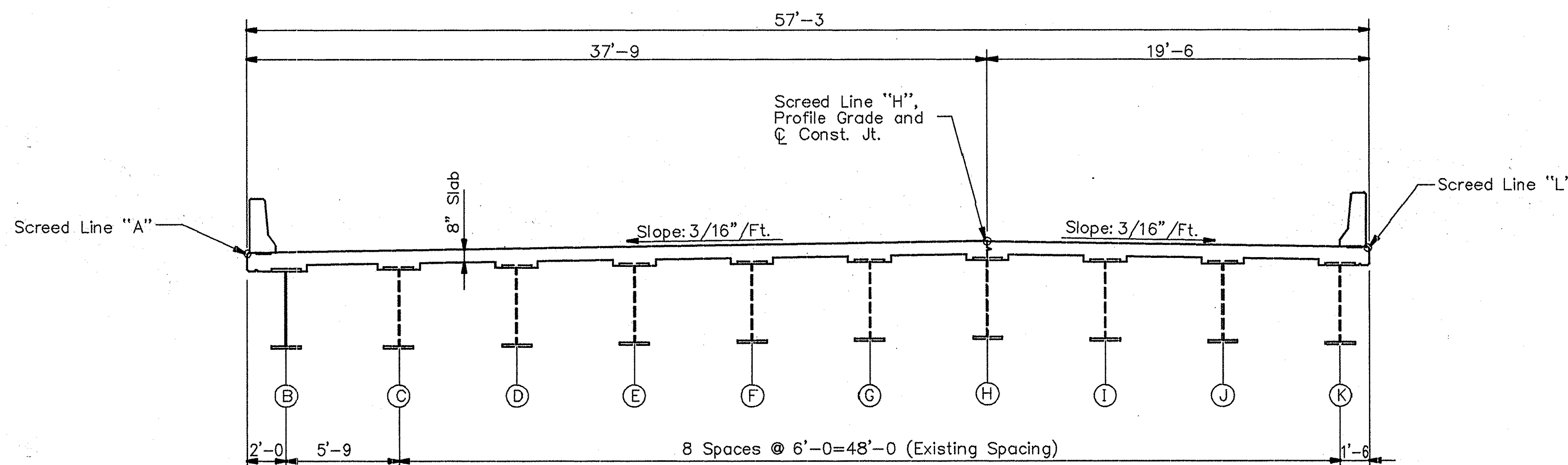
DATE: DECEMBER 18 19 97

John M. Broadus

DRAWING: R12 OF R13 SHEET: 19 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-6597B



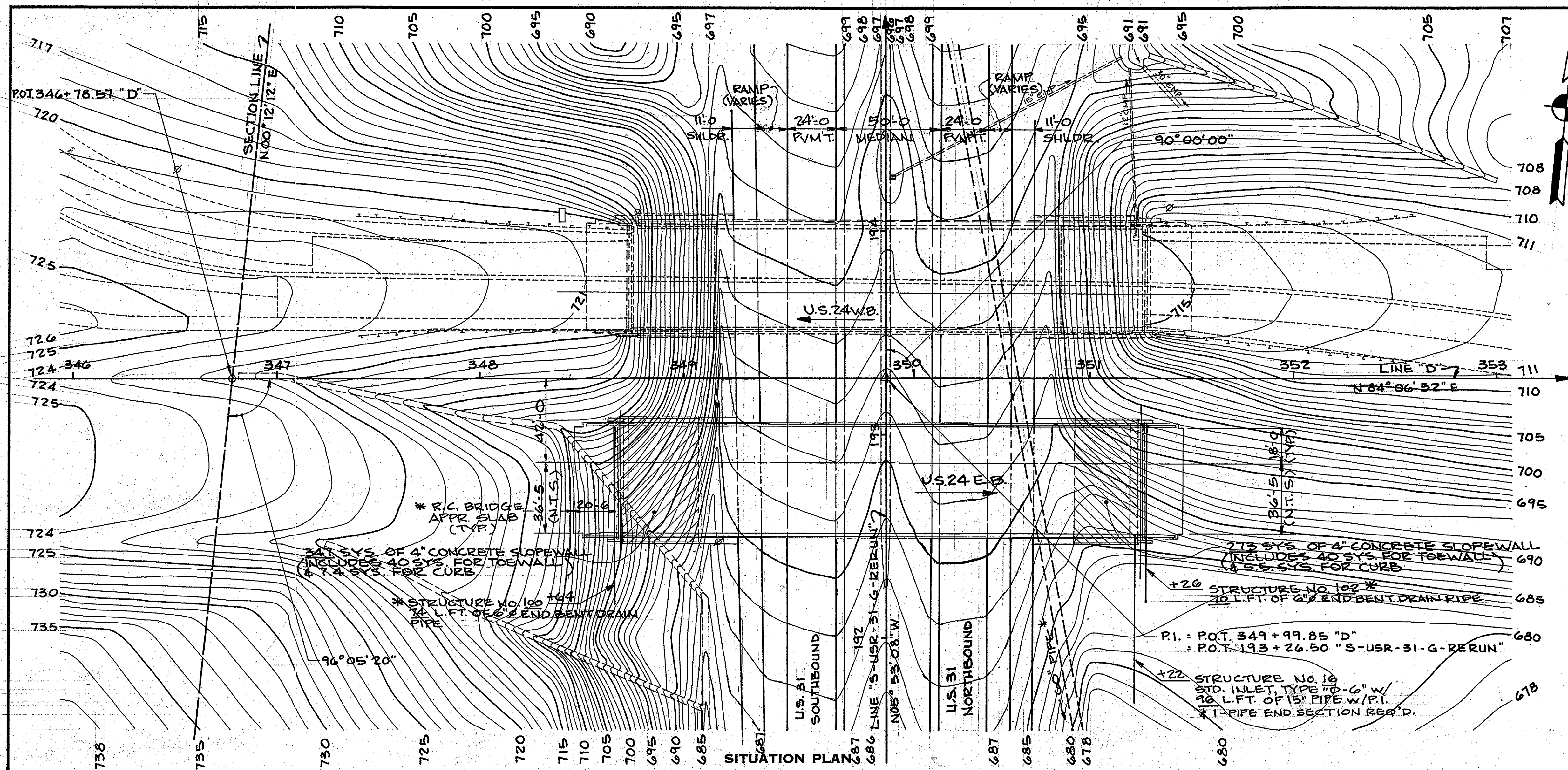
24WBSCR1/128



SECTION "A-A"

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

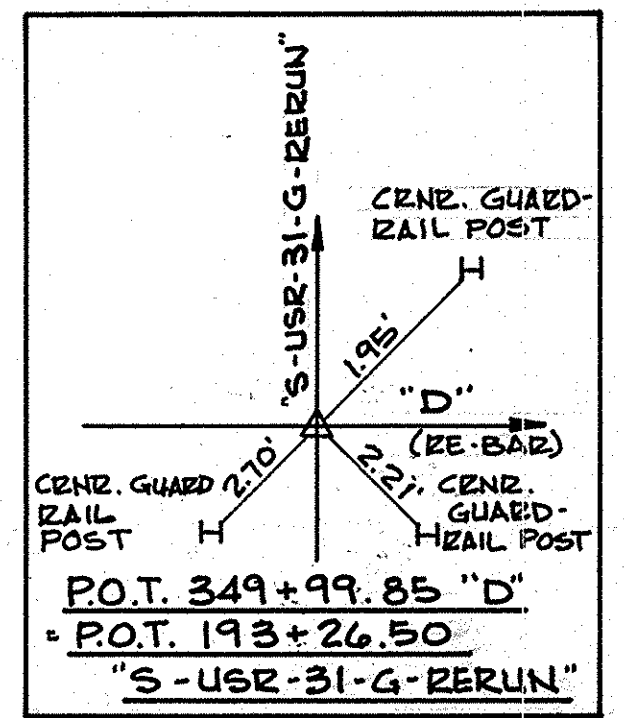
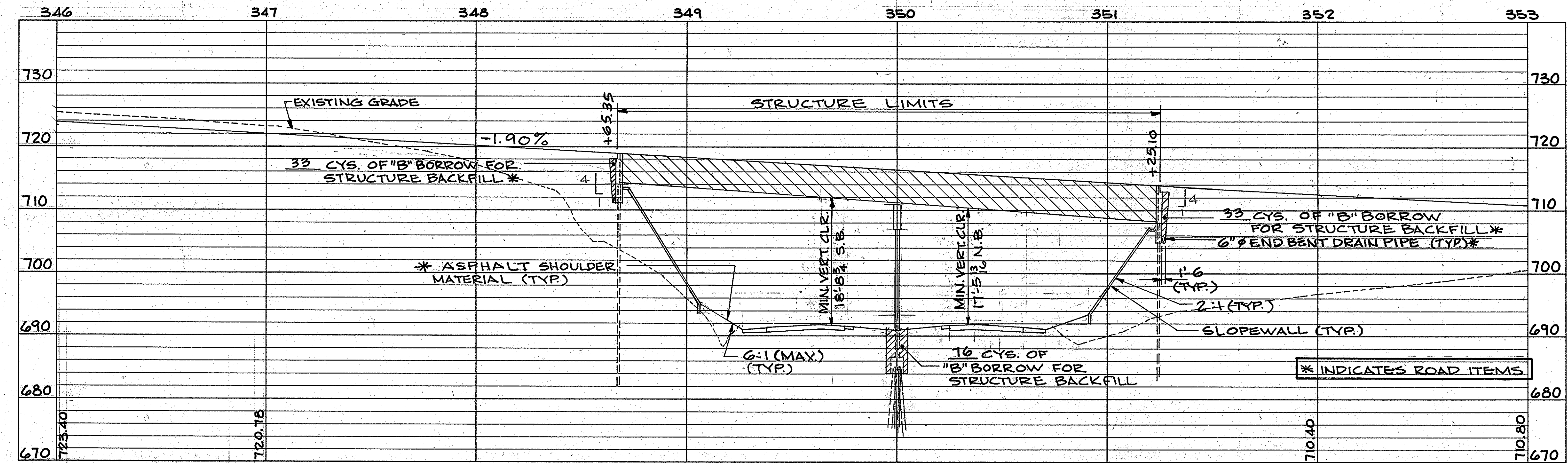
DESIGNED: MP, 5/93 CHECKED: JB
DRAWN: MCM, 8/93 CHECKED: MP, 9/93
REVISION: _____
SHEET REVISED: SEPTEMBER 24, 1992



- UTILITIES**
- TELEPHONE: INDIANA BELL
240 N. MERIDIAN ST.
INDIANAPOLIS, IN. 46204
PHONE: 317-265-2727
 - ELECTRIC: MIAMI-CASS REMC
P.O. BOX 168
PERU, IN. 46970
PHONE: 765-472-3361
 - GAS: NORTHERN IND. PUBLIC SERVICE CO.
1202 W. MAIN
PERU, IN. 46970
PHONE: 765-472-3361
 - AMMONIA GAS: GULF CENTRAL STORAGE & TERMINAL CO.
P.O. BOX 11
WALTON, IN. 46994
PHONE: 219-626-2543

* INDICATES ROAD ITEMS

SITUATION PLAN
SCALE: 1" = 30'-0", CONTOUR INTERVAL = 1 FT.



LAYOUT - (E.B. STRUCTURE)
CONTINUOUS COMPOSITE WELDED PLATE GIRDER BRIDGE
2 SPANS: 1 @ 133'-9", 1 @ 124'-6" NO SKEW
54'-5" CLEAR ROADWAY US 24 (E.B.) / U.S. 31
INDIANA DEPARTMENT OF TRANSPORTATION

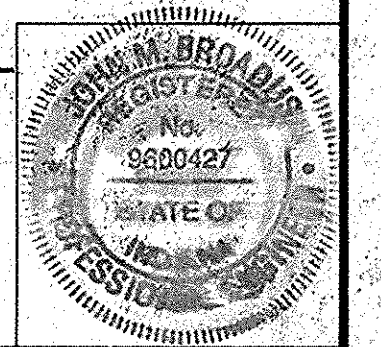
MIAMI COUNTY
SCALE: -AS NOTED DATE: DECEMBER 18, 1997
DRAWING: S1 OF S14 SHEET: 21 OF 53
PROJECT: NH-144-6() STATION: -
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-8165

DRAWN: SJF CKD: LS
DESIGNED: CKD
TRACED: CKD

SF-22396

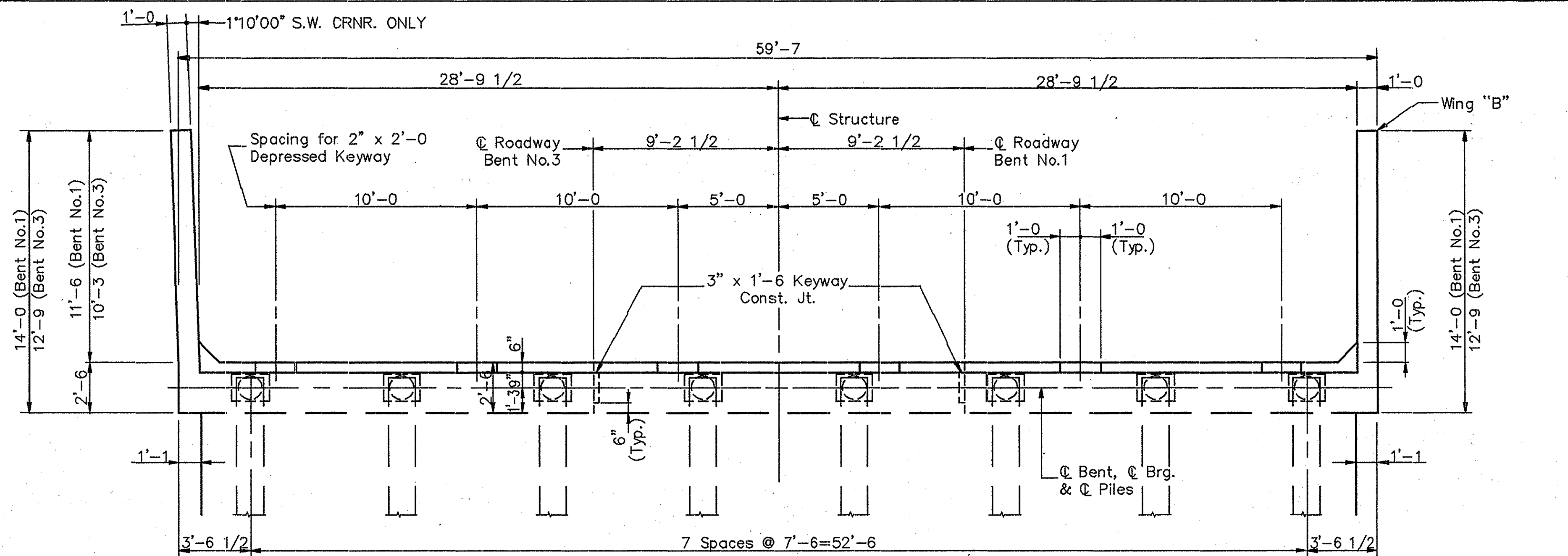
PROFILE ON PROPOSED ROADWAY - E.B. STR.
SCALES: HORIZ. 1" = 30'-0" VERT. 1" = 10'-0"

NOTE: FIELD NOTES, BOOK



PLOT DATE & TIME: DEC. 17, 1997 - 11:13:07

DESIGNED: MP 4/93 CHECKED: JB
 DRAWN: SAC 5/93 CHECKED: MP 2/94
 REVISION: SHEET REVISED: SEPTEMBER 24, 1992



Note:

South End-Bent No.1
 North End-Bent No.3

PLAN

(This view shows concrete dimensions and elevation call-outs)
 Scale: 1/4"=1'-0"

Note:

North End-Bent No.1
 South End-Bent No.3

BILL OF MATERIALS

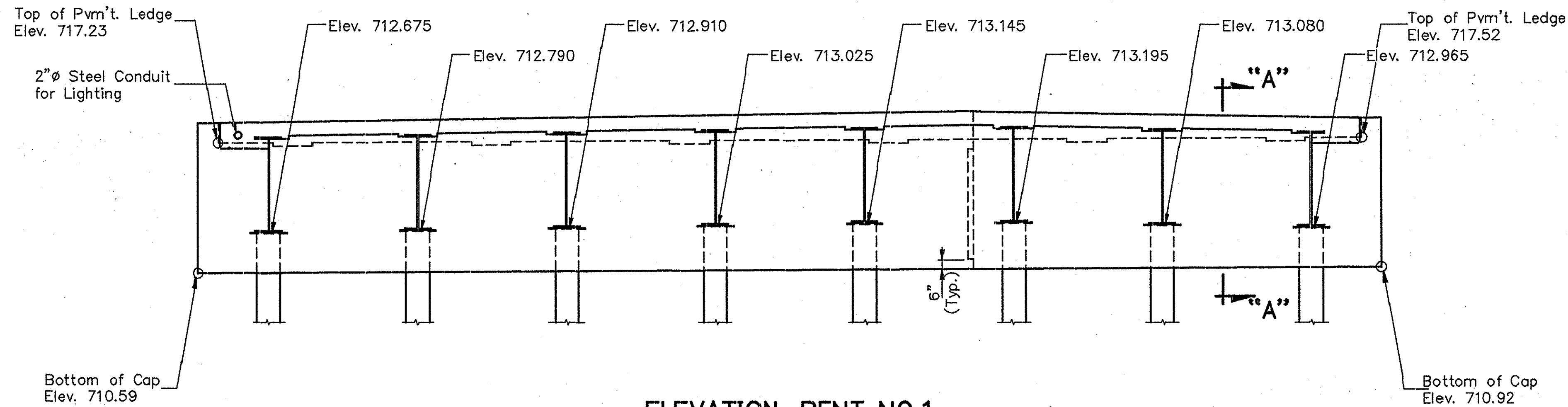
BENT NO. 1

SIZE or MK	NO. of BARS	LENGTH	WEIGHT
#7e	22	31'-6"	
#7e	12	13'-8"	
#7e	35	7'-2"	
TOTAL #7e			2,264#
601Be	25	16'-4"	
602Be	28	16'-7"	
603Be	53	9'-11"	
#6e	32	6'-0"	
#6e	76	5'-0"	
#6e	28	3'-10"	
TOTAL #6e			3,121#
#5e	6	30'-3"	
#5e	32	13'-8"	
TOTAL #5e			645#
401Be	106	3'-2"	
402Be	16	6'-2"	
403Be	16	4'-6"	
#4e	8	13'-8"	
#4e	40	7'-3"	
#4e	58	3'-0"	
TOTAL #4e			721#
TOTAL EPOXY COATED REINFORCING			6,751#
MISCELLANEOUS			
8-14"Ø, 0.312" THICK, STEEL ENCASED CONCRETE PILES			
x 41'-0" LONG			328.0 L.F.

BILL OF MATERIALS

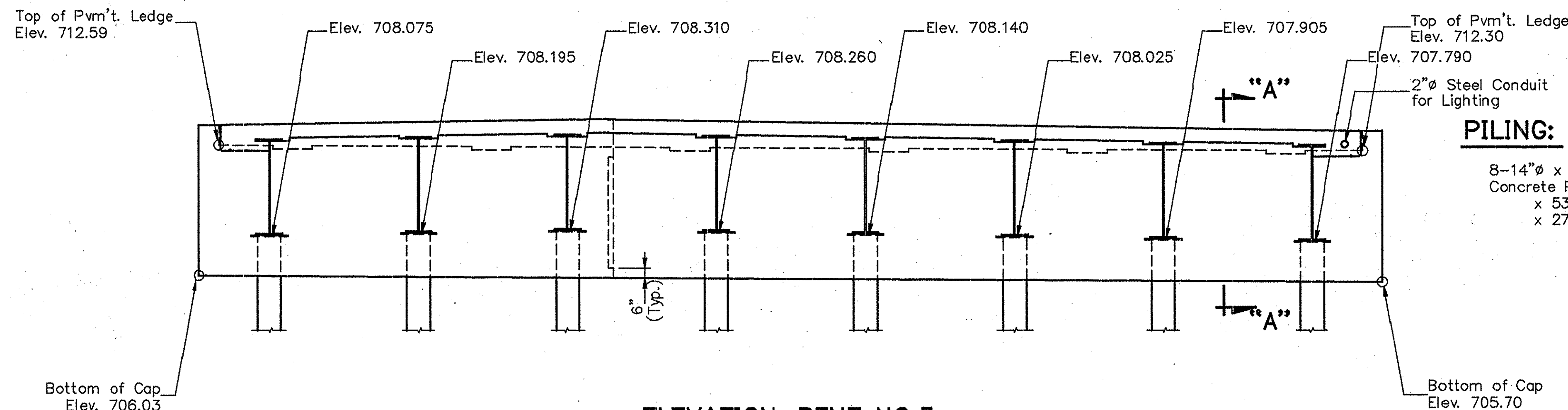
BENT NO. 3

SIZE or MK	NO. of BARS	LENGTH	WEIGHT
#7e	22	31'-6"	
#7e	12	12'-5"	
#7e	35	7'-2"	
TOTAL #7e			2,234#
601Be	25	16'-4"	
602Be	28	16'-7"	
603Be	53	9'-11"	
#6e	32	6'-0"	
#6e	76	5'-0"	
#6e	28	3'-10"	
TOTAL #6e			3,121#
#5e	6	30'-3"	
#5e	32	12'-5"	
TOTAL #5e			604#
401Be	106	3'-2"	
402Be	16	6'-2"	
403Be	16	4'-6"	
#4e	8	12'-5"	
#4e	40	7'-0"	
#4e	58	3'-0"	
TOTAL #4e			708#
TOTAL EPOXY COATED REINFORCING			6,667#
MISCELLANEOUS			
8-14"Ø, 0.312" THICK, STEEL ENCASED CONCRETE PILES			
x 51'-0" LONG			408.0 L.F.



ELEVATION-BENT NO.1

(This view shows concrete dimensions and elevation call-outs)
 Scale: 1/4"=1'-0"



ELEVATION-BENT NO.3

(This view shows concrete dimensions and elevation call-outs)
 Scale: 1/4"=1'-0"

PILING:

8-14"Ø x 0.312" Thick, Steel Encased Concrete Piles
 x 53'-0" (Bent No.1)
 x 27'-0" (Bent No.3)

NOTES:

1. For reinforcing bar notes, see Br. Std. C1.
2. For General Notes, see Dwg. S2.
3. For Reinforcing Layout and additional Details, see Dwg's. S4 & S5.
4. The letter "e" denotes epoxy coated reinforcing steel.

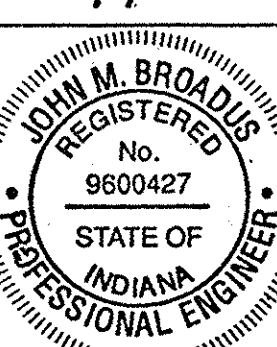
BENT NO.1 & 3
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: 1/4"=1'-0"

DATE: DECEMBER 18 1997

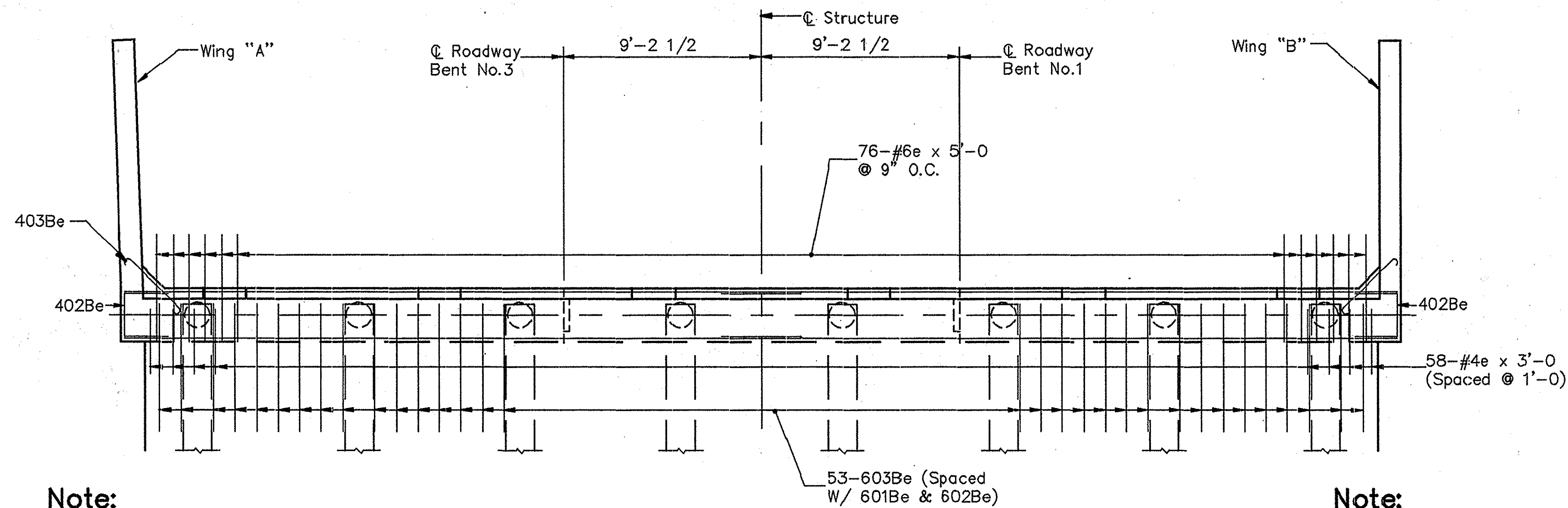
John M. Broadus

DRAWING: S3 OF S14 SHEET: 23 OF 53
 PROJECT: NH-144-6(012)
 BRIDGE CONTRACT NO. R-23637
 BRIDGE FILE: 24-52-8165



PLOT DATE & TIME: DEC 17, 1997 - 11:18:22

DESIGNED: MP 4/93
 DRAWN: S.G. 5/93
 CHECKED: MP
 REVISIONS:
 SHEET REVISED: SEPTEMBER 24, 1992

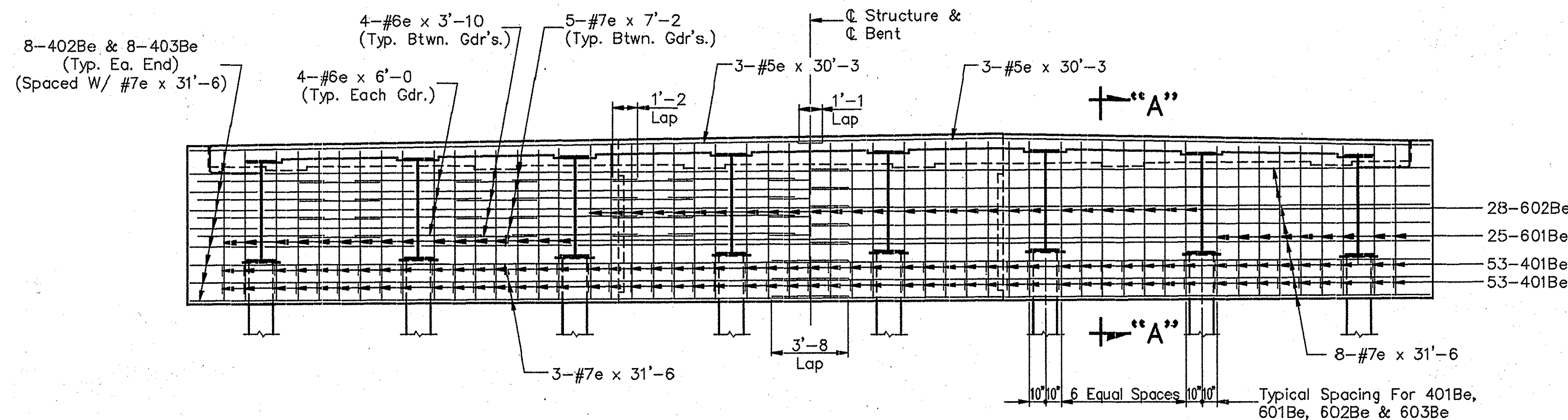


Note:
 South End-Bent No.1
 North End-Bent No.3

Note:
 North End-Bent No.1
 South End-Bent No.3

PLAN

(This view shows steel spacing and callouts)
 Scale: 1/4"=1'-0"

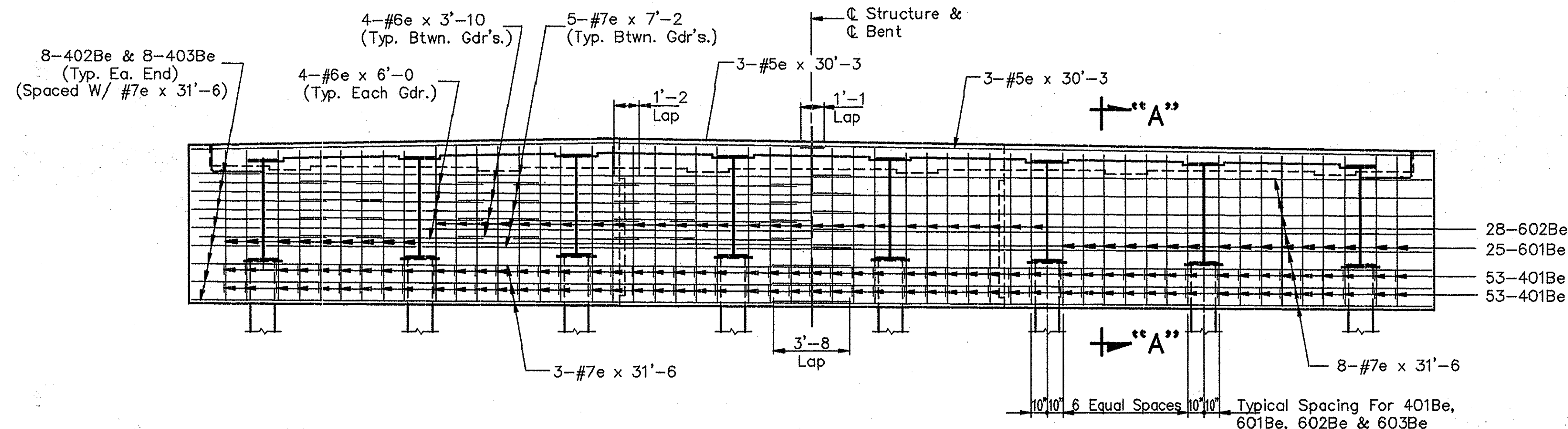


This Half Shows Front Face Steel

This Half Shows Rear Face Steel

ELEVATION-BENT NO. 1

(This view shows steel spacing and callouts)
 Scale: 1/4"=1'-0"

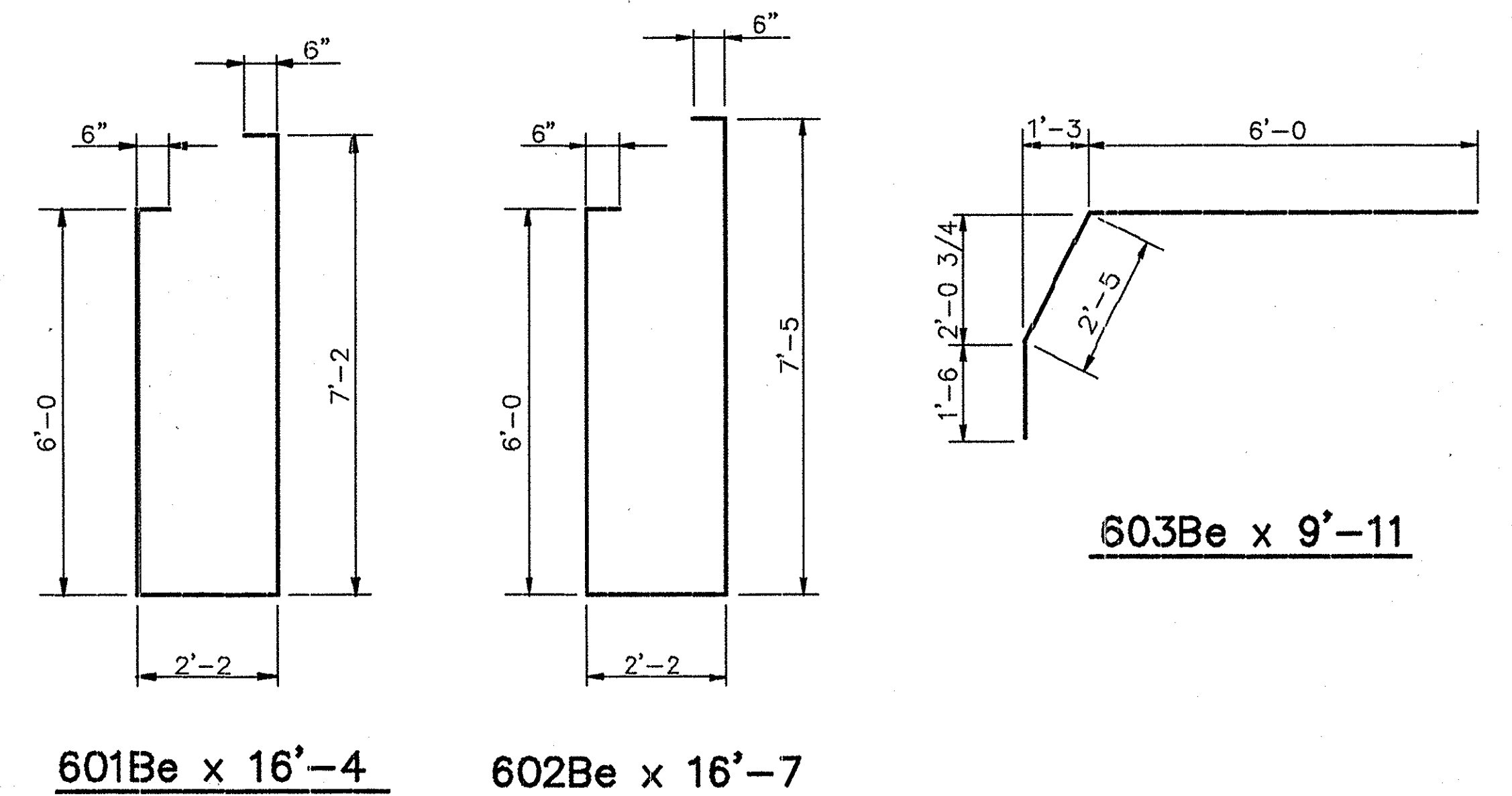
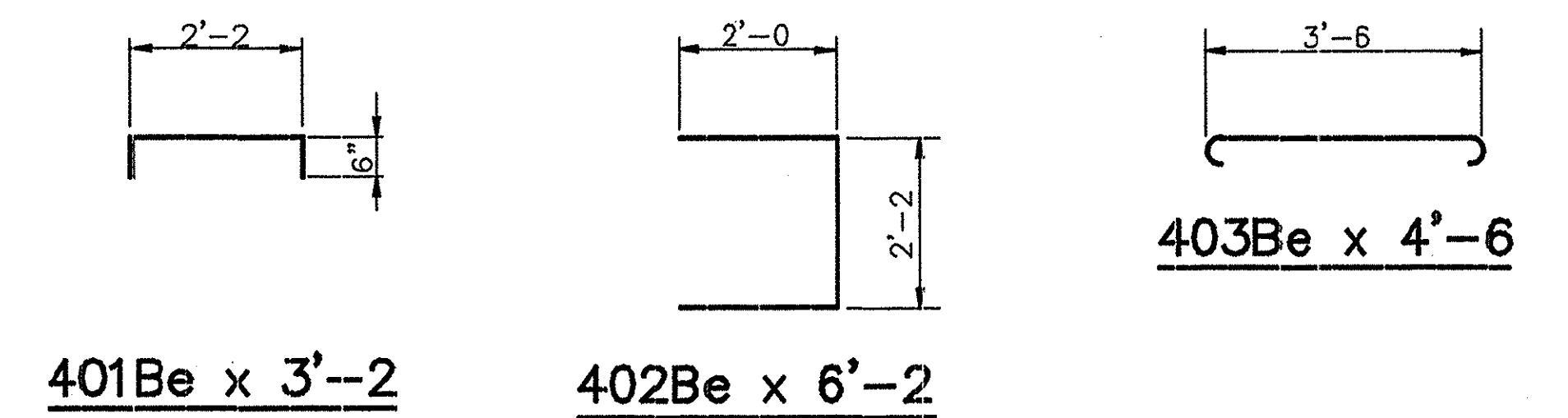


This Half Shows Front Face Steel

This Half Shows Rear Face Steel

ELEVATION-BENT NO. 3

(This view shows steel spacing and callouts)
 Scale: 1/4"=1'-0"



NOTES:

1. For dimensions, elevation call-outs, bill of materials and additional details, see Dwg's. S3 & S5.
2. The letter "e" denotes epoxy coated reinforcing steel.

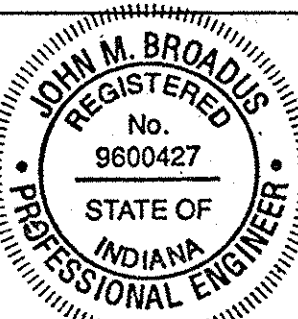
BENT NO. 1 & 3 DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: 1/4"=1'-0"

DATE: **DECEMBER 18** 1997

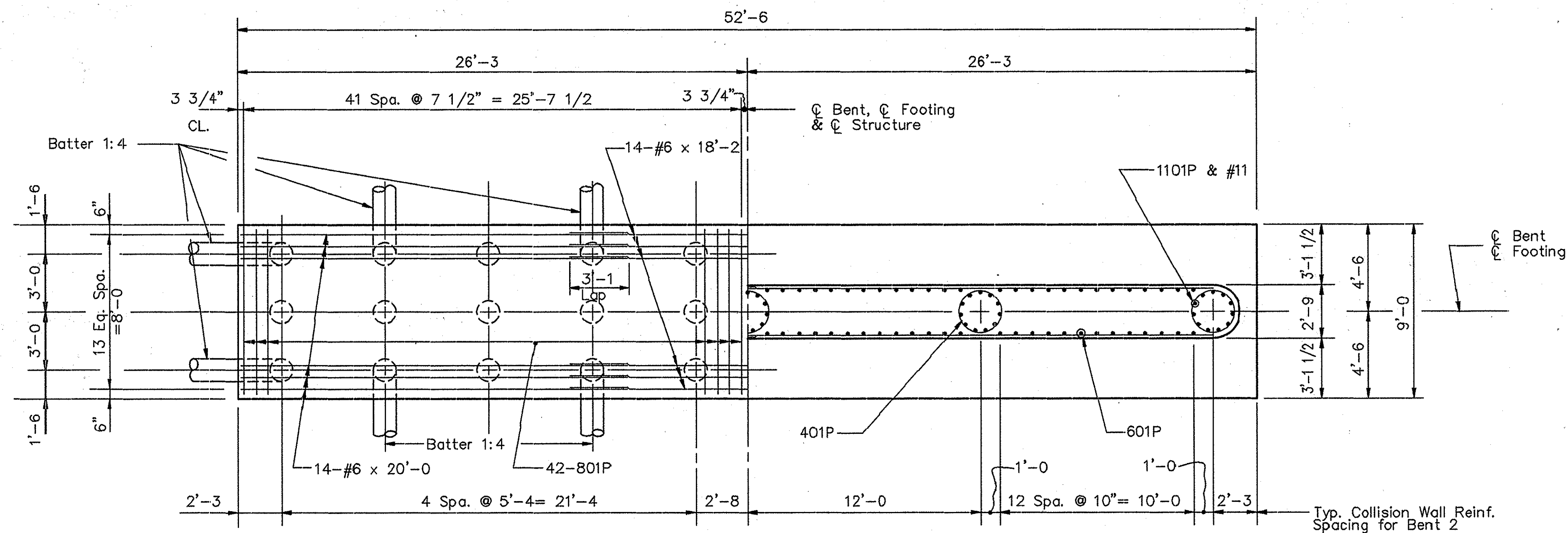
John M. Broadus

DRAWING: S4 OF S14 SHEET: 24 OF 53
 PROJECT: NH-144-6(012)
 BRIDGE CONTRACT NO. R-23637
 BRIDGE FILE: 24-52-8165



24EB1-3D/48

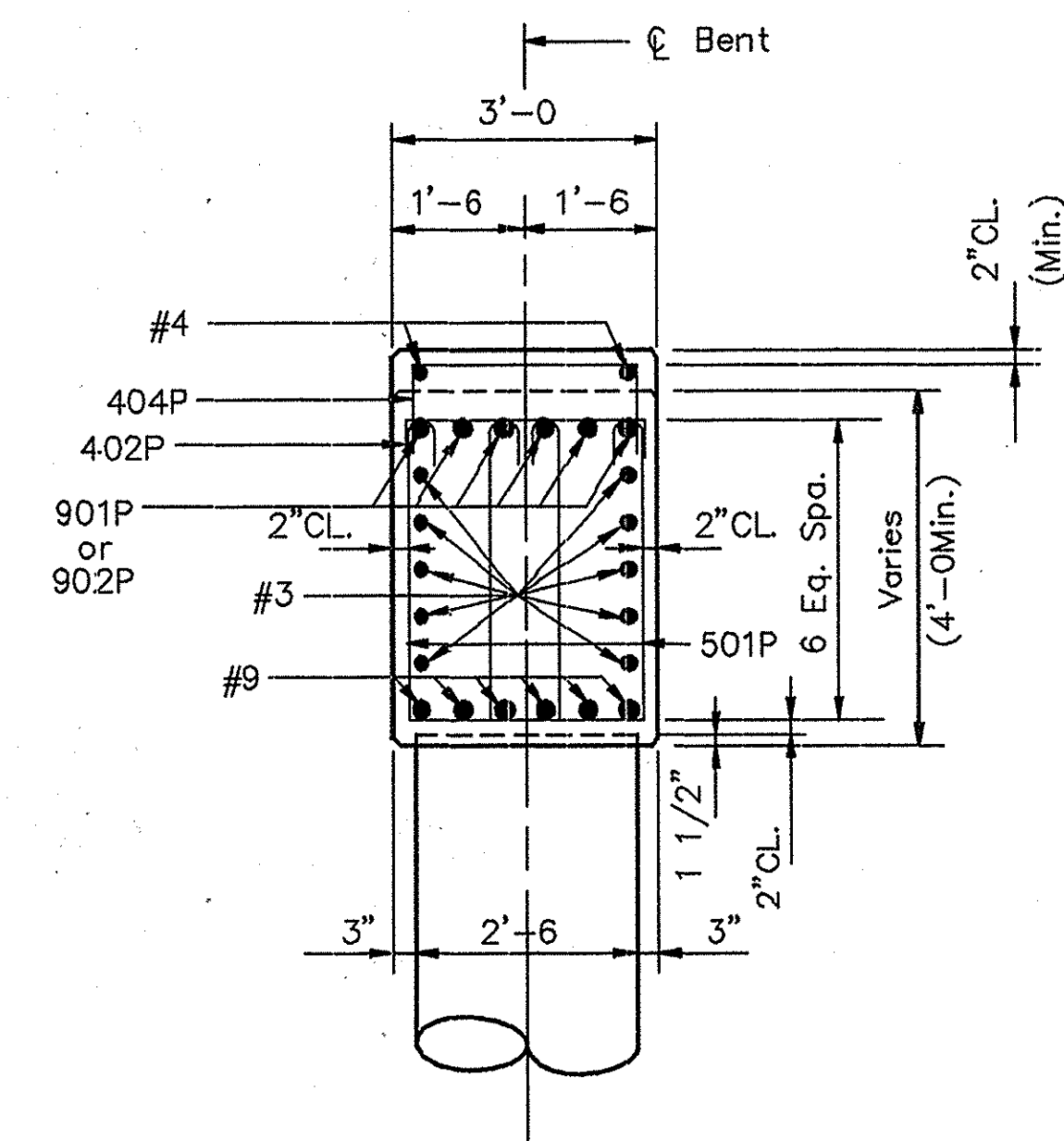
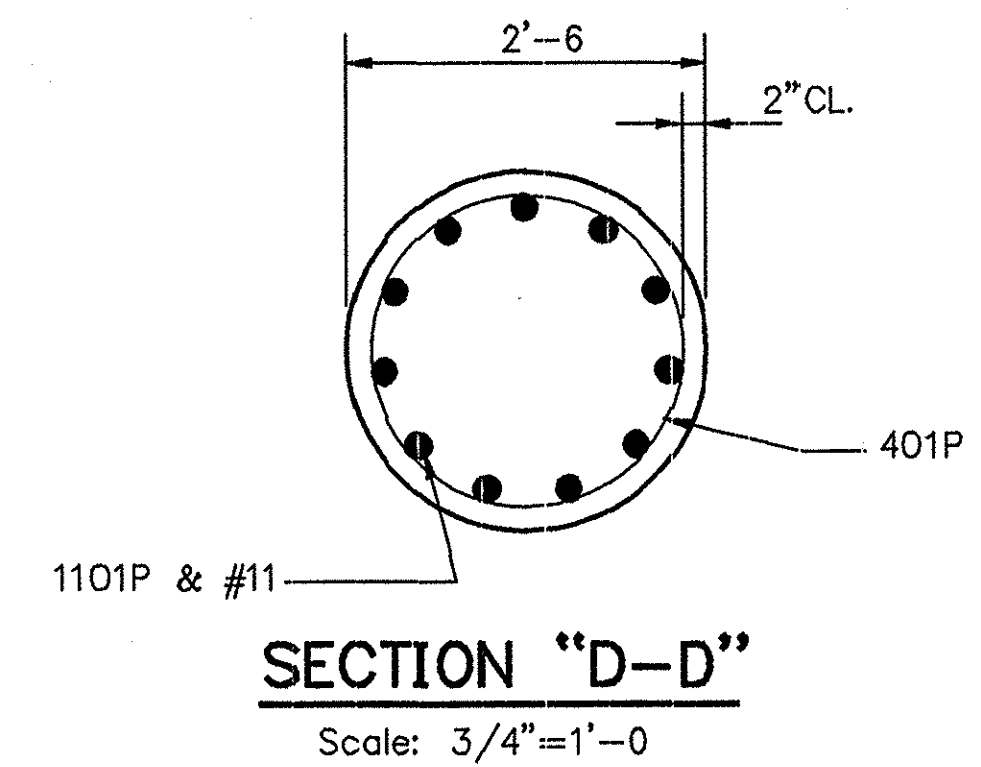
PLOT DATE & TIME: DEC. 17, 1997 - 11:28:20



HALF PLAN SHOWING
PILE LAYOUT & FOOTING REINF.

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

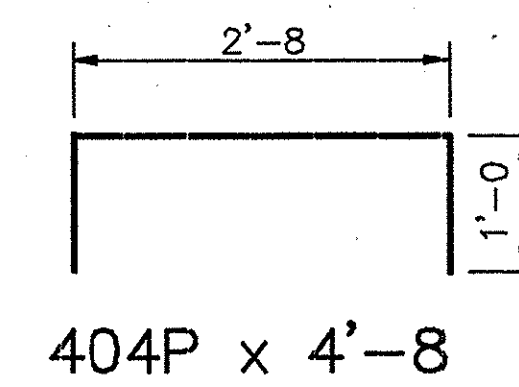
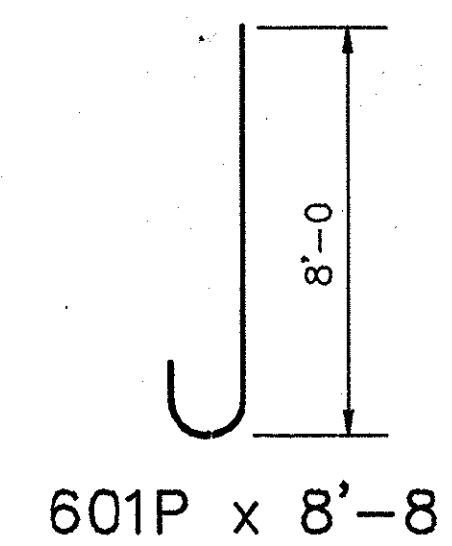
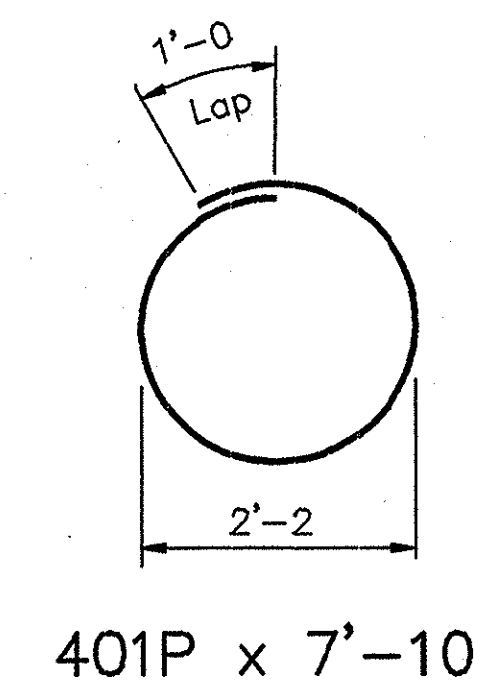
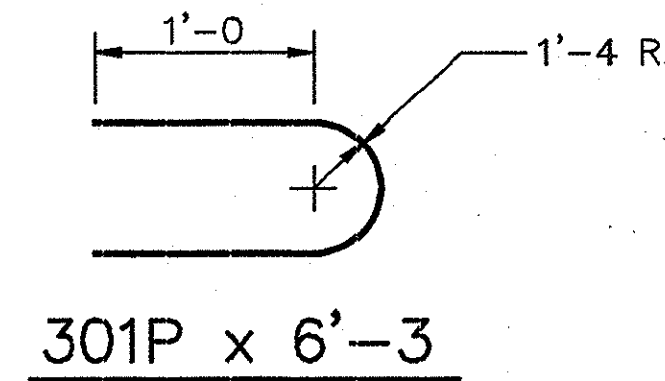
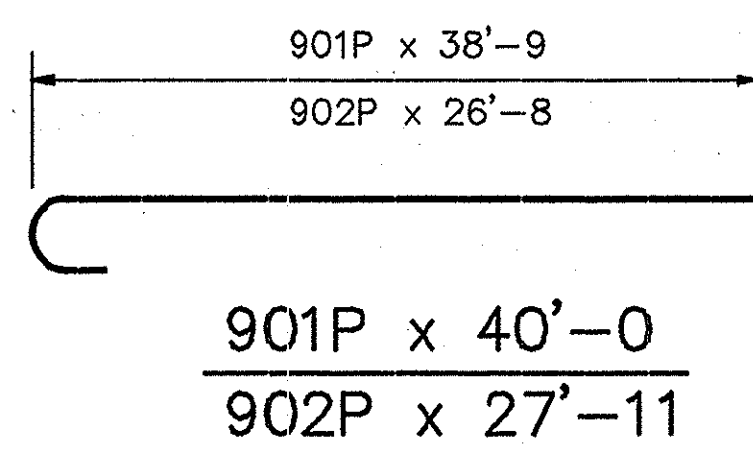
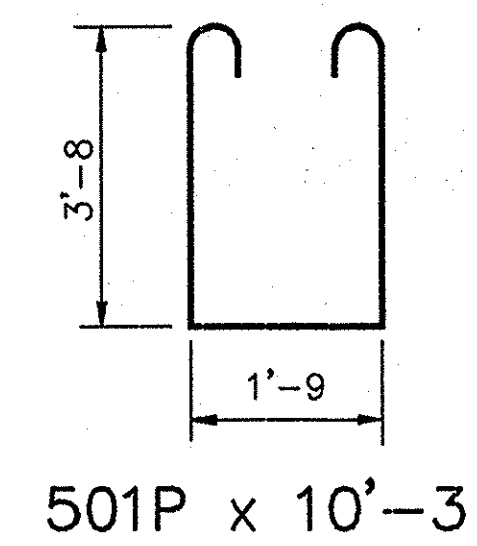
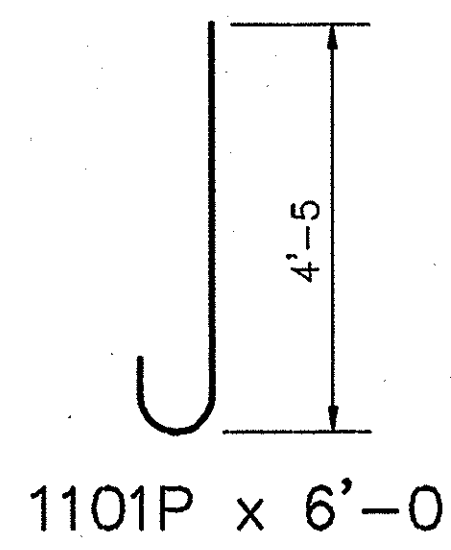
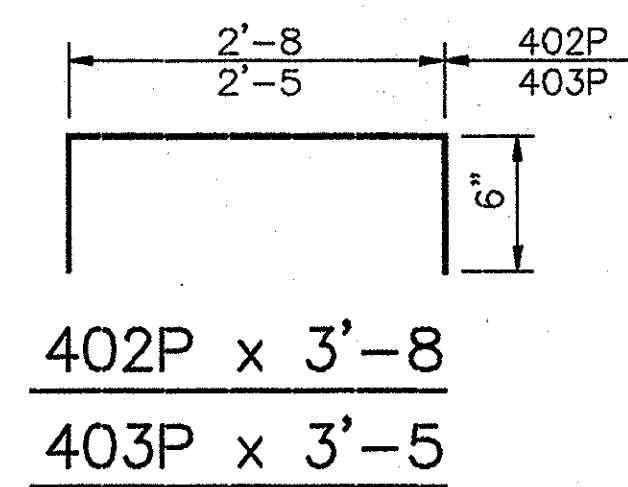
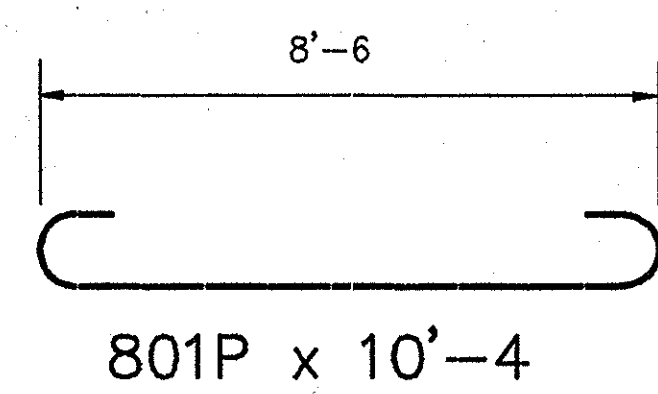
HALF PLAN SHOWING
COLUMN & COLLISION WALL REINF.



SECTION "A-A"
Scale: 1/2"=1'-0"

NOTES:

1. For General Notes, See Dwg. S2.
2. For Reinforcing Bar Notes, See Br. Std. C1.



BENT NO. 2 DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED

DATE: DECEMBER 18 1997

John H. Broadus

DRAWING: S7 OF S14 SHEET: 27 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-8165

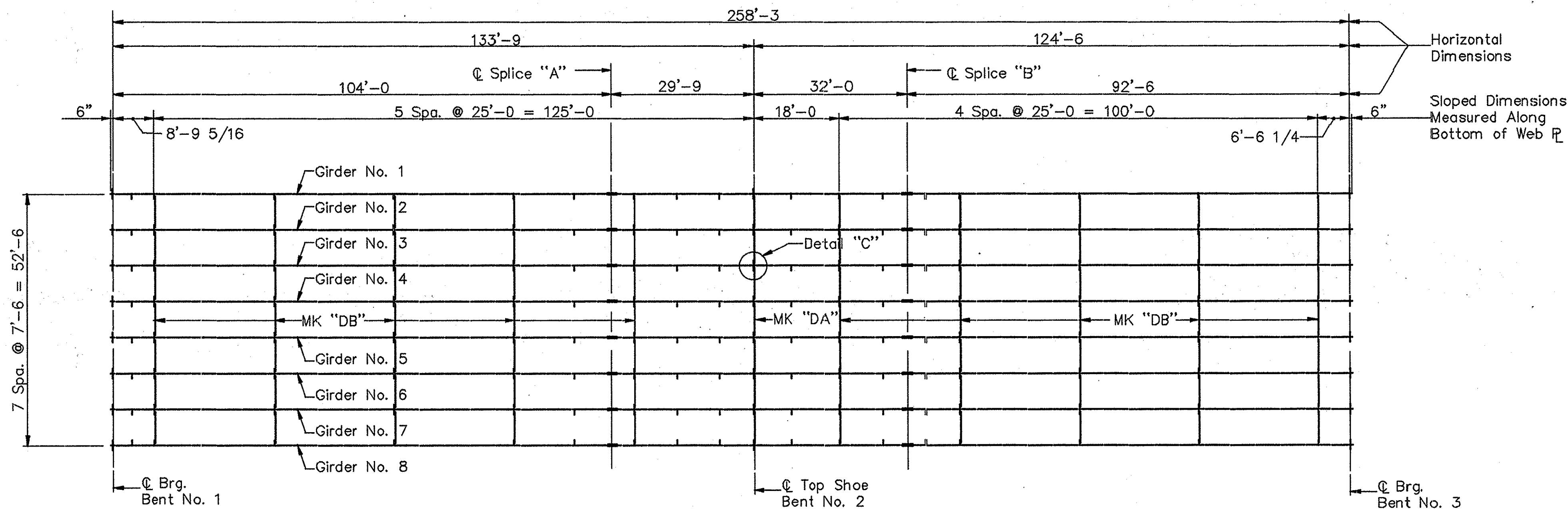


24EBB2DT/48

DESIGNED: MP
DRAWN: MCM
CHECKED: MP
REVISIONS:
SHEET REVISED: SEPTEMBER 24, 1992

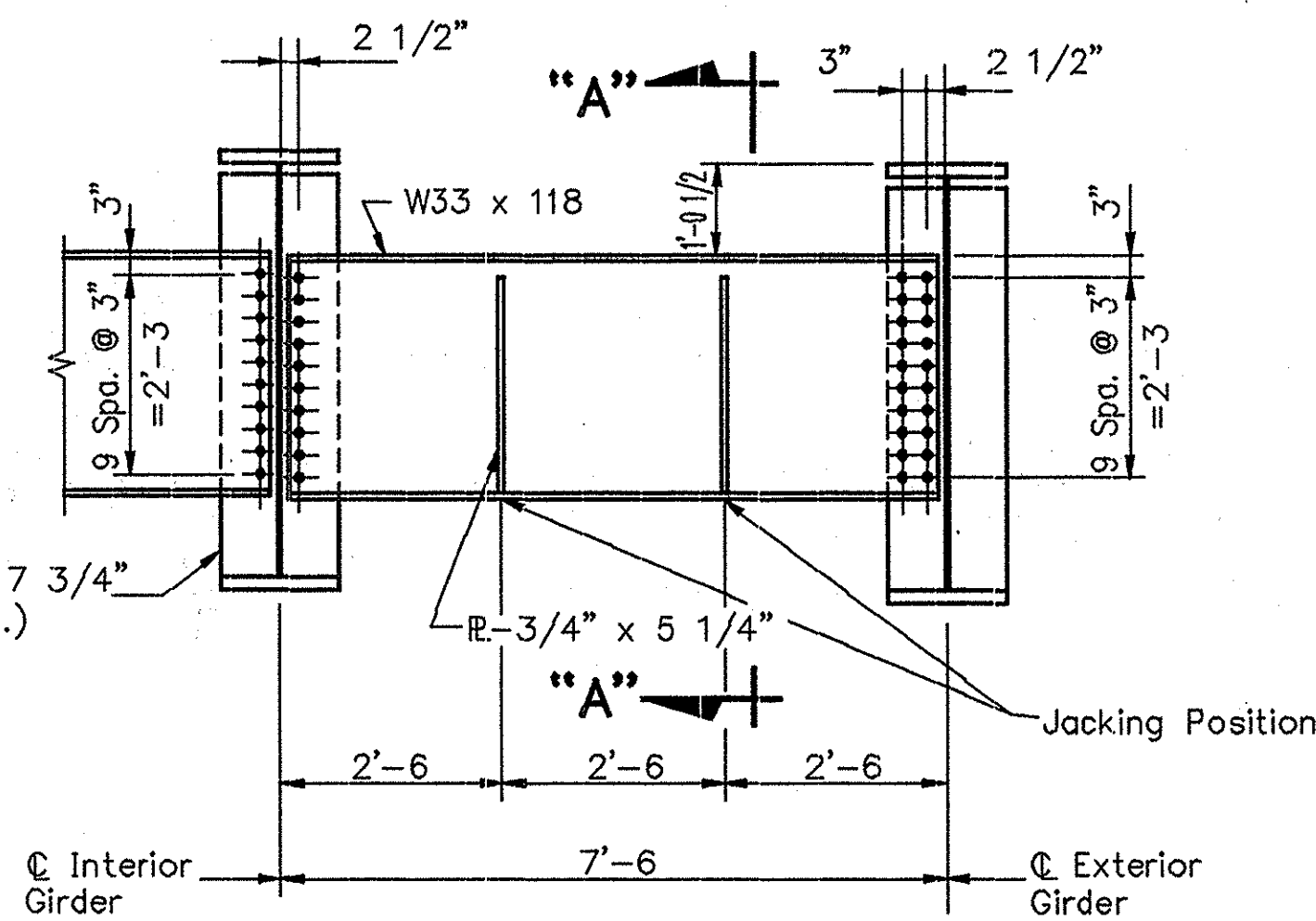
PLOT DATE & TIME: DEC 17, 1997 - 11:40:05

DESIGNED: MP
DRAWN: SLC 4-83
CHECKED: MP
REVISION: _____
SHEET REVISED: SEPTEMBER 24, 1992

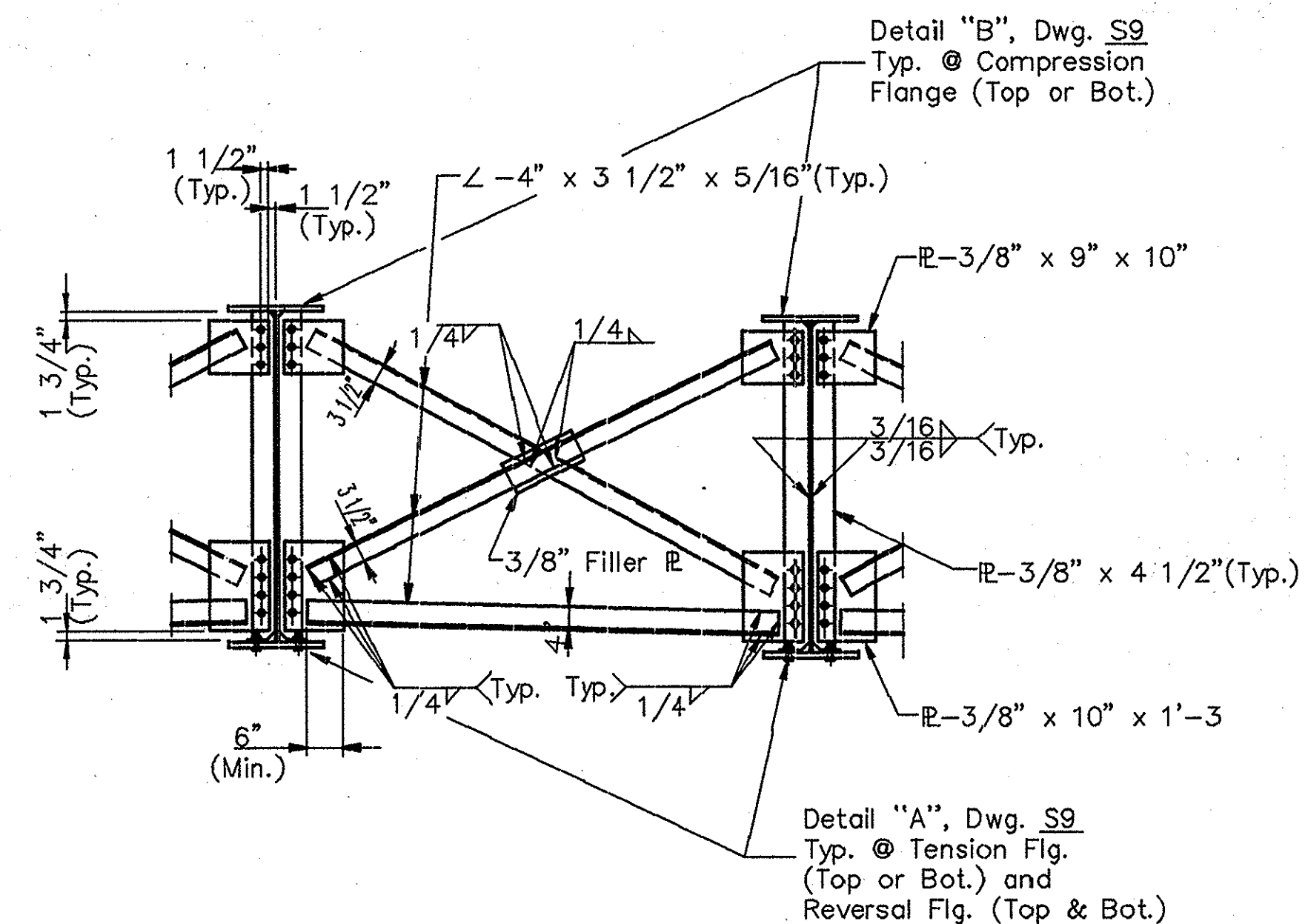


DESIGN DATA	
Live Load	Designed for HS20-44 loading with impact and distribution of loads in accordance with 1992 AASHTO specifications, including 1993 Interim Specifications. Checked for special loading of 2-24,000 LB. axles spaced at 4'-0 centers.
Dead Load	Actual weight plus 35p.s.f. (composite) for future wearing surface and 15p.s.f. (non-composite) for permanent metal deck forms.
Floor Slab	Designed for 16,000# wheel load plus impact. Structural depth of 6 1/2 inches.
Allowable Stresses	To be in accordance with 1992 AASHTO Specifications, including 1993 Interim Specifications.
Design Strengths	Class A concrete - $f'c = 3,500$ p.s.i. Class B concrete - $f'c = 3,000$ p.s.i. Class C concrete - $f'c = 4,000$ p.s.i. Reinforcing - $f_y = 60,000$ p.s.i.
Design Methods	Superstructure - Strength Design Method Substructures - Service Load Design Method
Seismic Criteria	Designed in accordance with Division I-A OF 1992 AASHTO Specifications, including 1993 Interim Specifications, using Seismic Performance Category "A" and 0.05 acceleration coefficient.

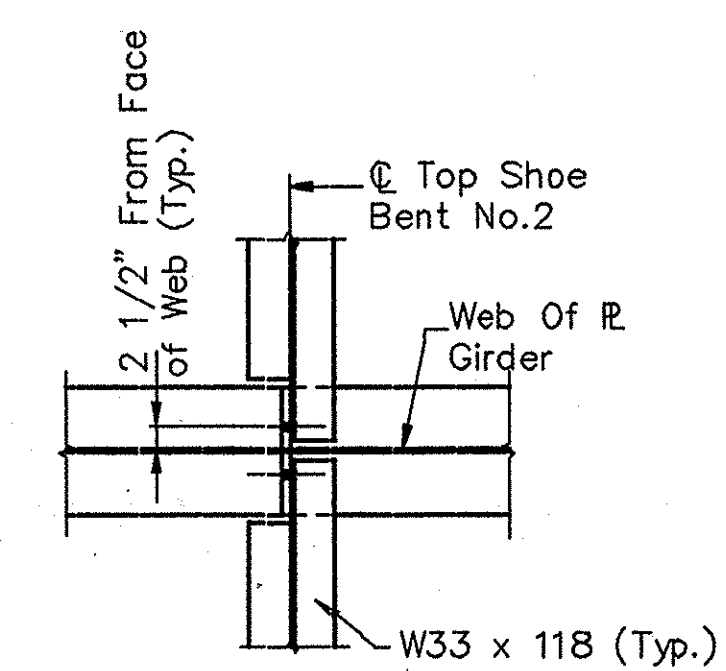
FRAMING PLAN
Scale: 1/16"=1'-0"



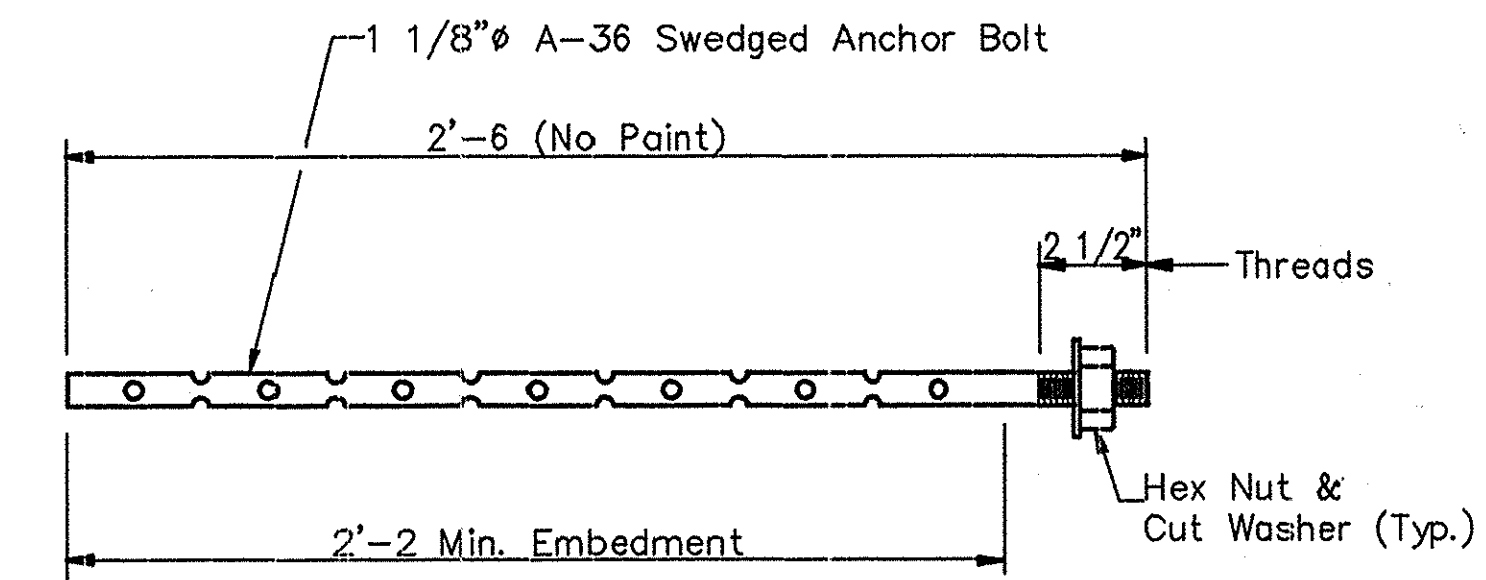
JACKING FRAME DETAIL MK "DA"
Scale: 1/2"=1'-0"



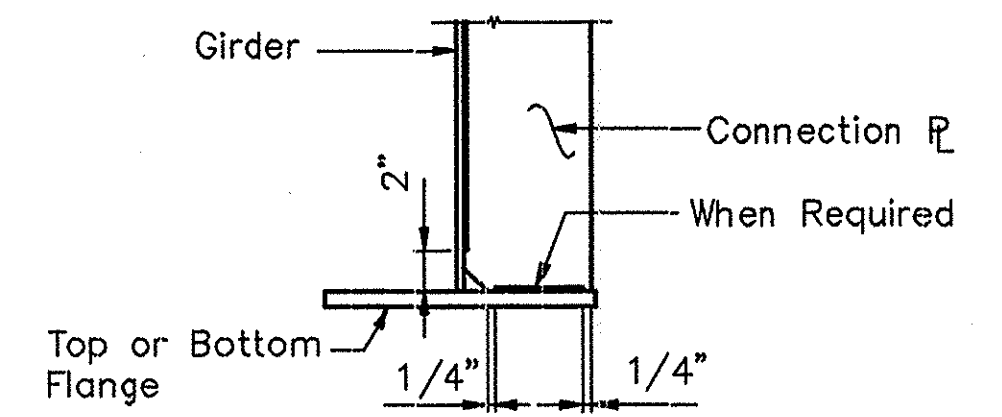
DIAPHRAGM DETAIL MK "DB"
Scale: 1/2"=1'-0"



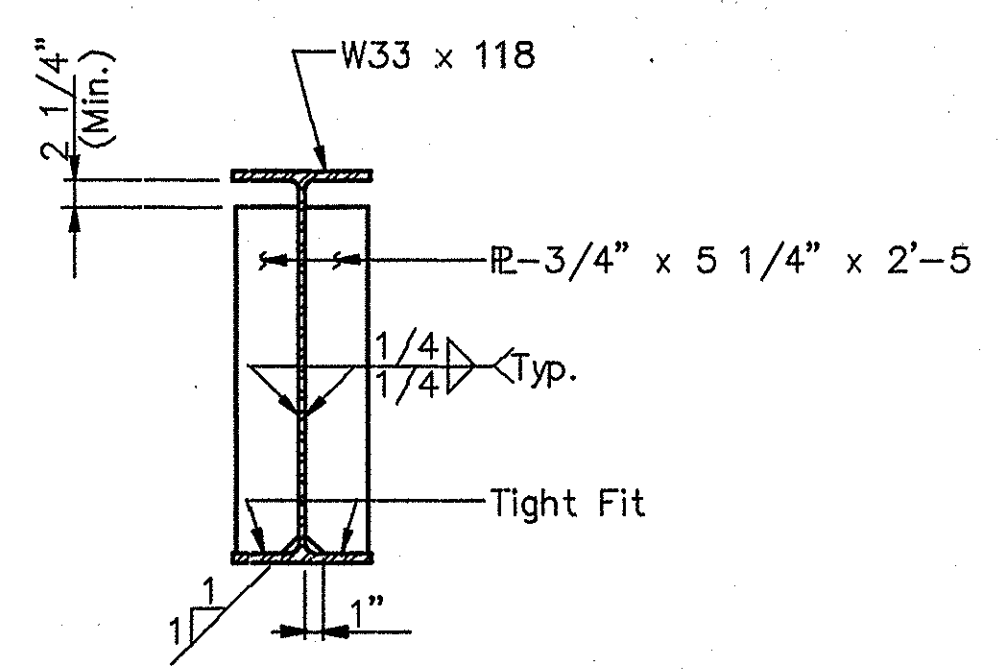
DETAIL "C"
Scale: 1/2"=1'-0"



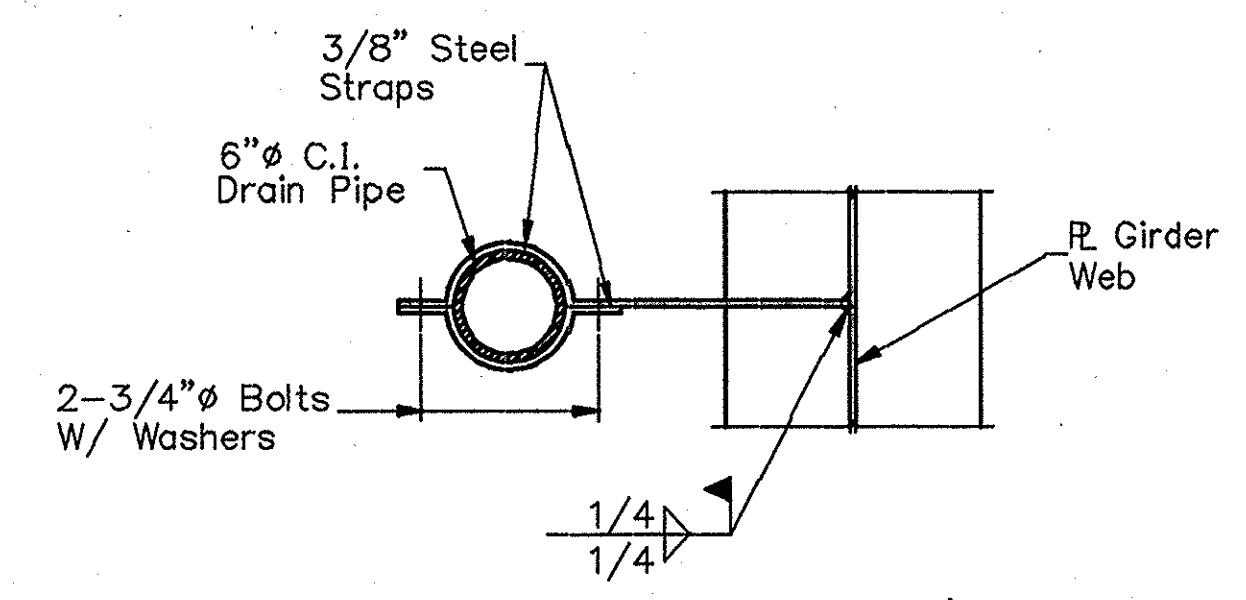
SWEDGED ANCHOR BOLT DETAIL
No Scale



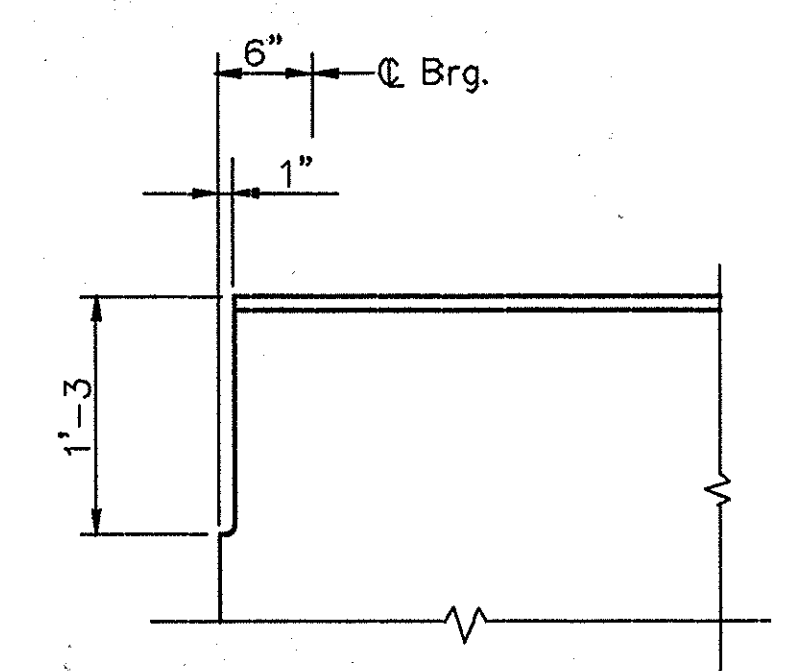
TYPICAL WELD DETAIL FOR DIAPHRAGM CONNECTION 'R'S'
Scale: None



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



PIPE SUPPORT BRACKET DETAIL
No Scale



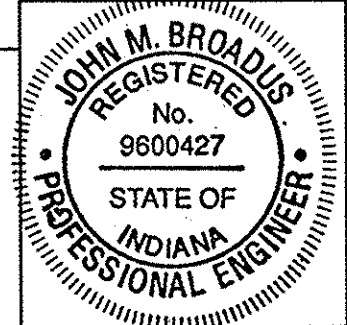
GIRDER COPING DETAIL
(@ BENT NO. 1 & 3)
Scale: 1"=1'-0"

- NOTES:**
- The weight of high strength bolts is not included in the estimated weight of structural steel.
 - Estimated weight of structural steel 442,035 lbs. (includes 391,983 lbs. for A-572 and 1,481 lbs. for A-588.)
 - For additional details, see Dwg's S9 & S10.

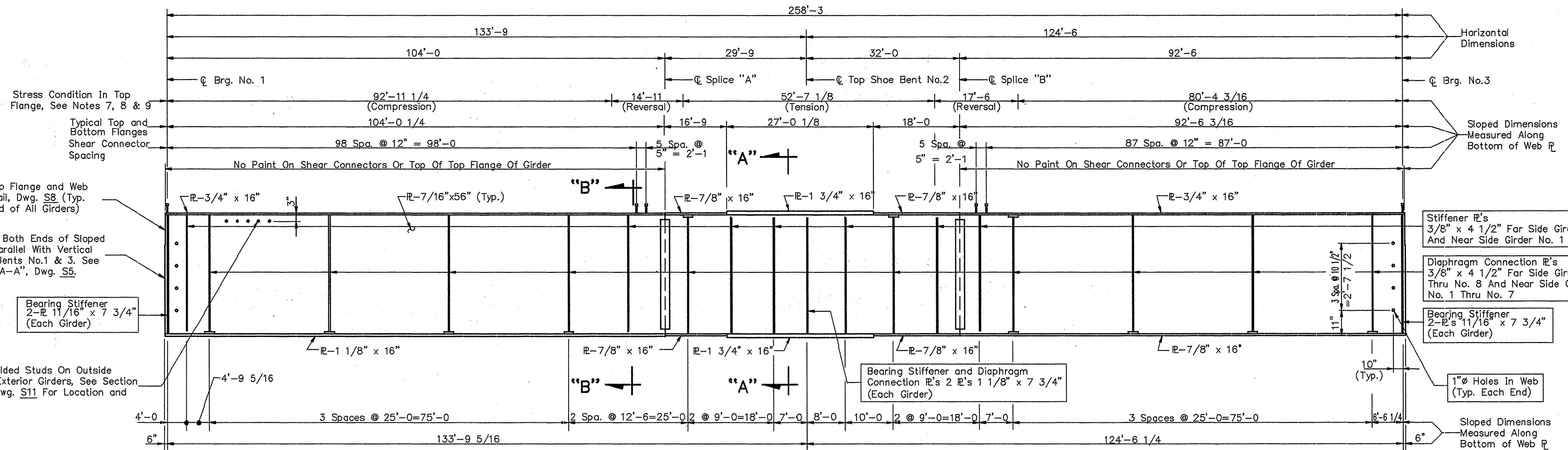
FRAMING PLAN
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED DATE: *DECEMBER 18 1997*

DRAWING: S8 OF S14 SHEET: 28 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23 637
BRIDGE FILE: 24-52-8165

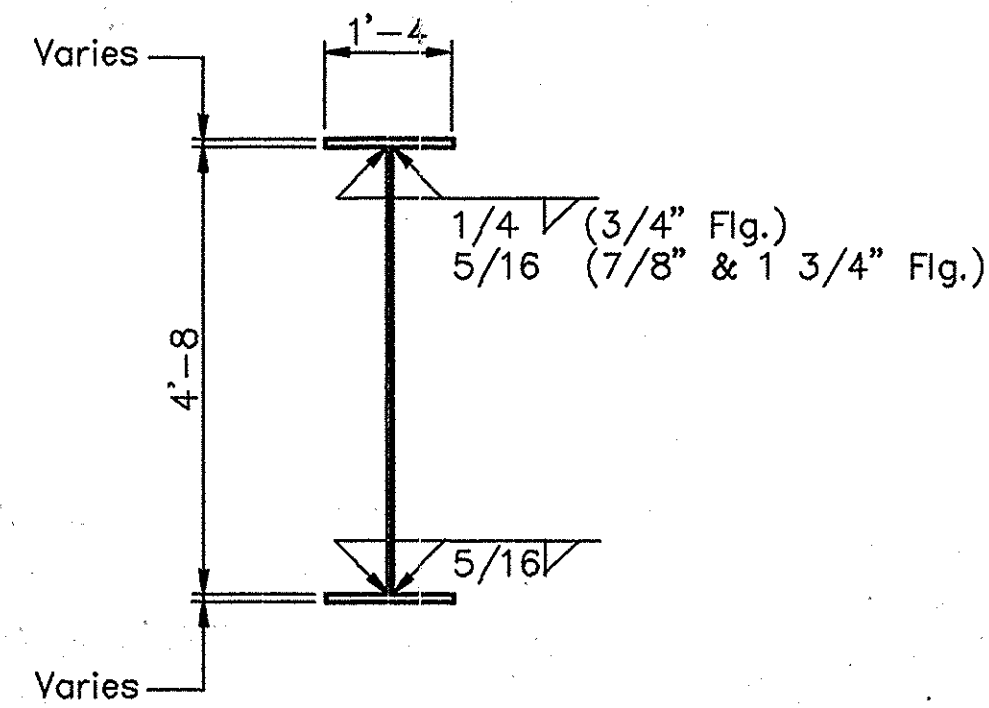


PLOT DATE & TIME: DEC 18, 1997 - 11:56:31



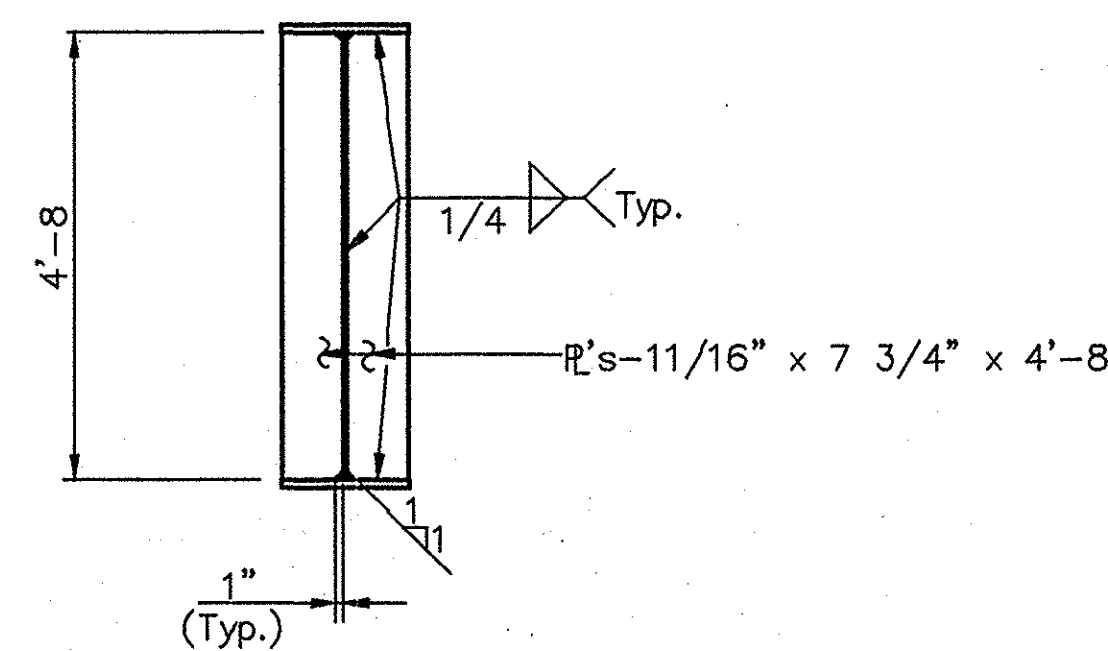
TYPICAL GIRDER ELEVATION

No Scale



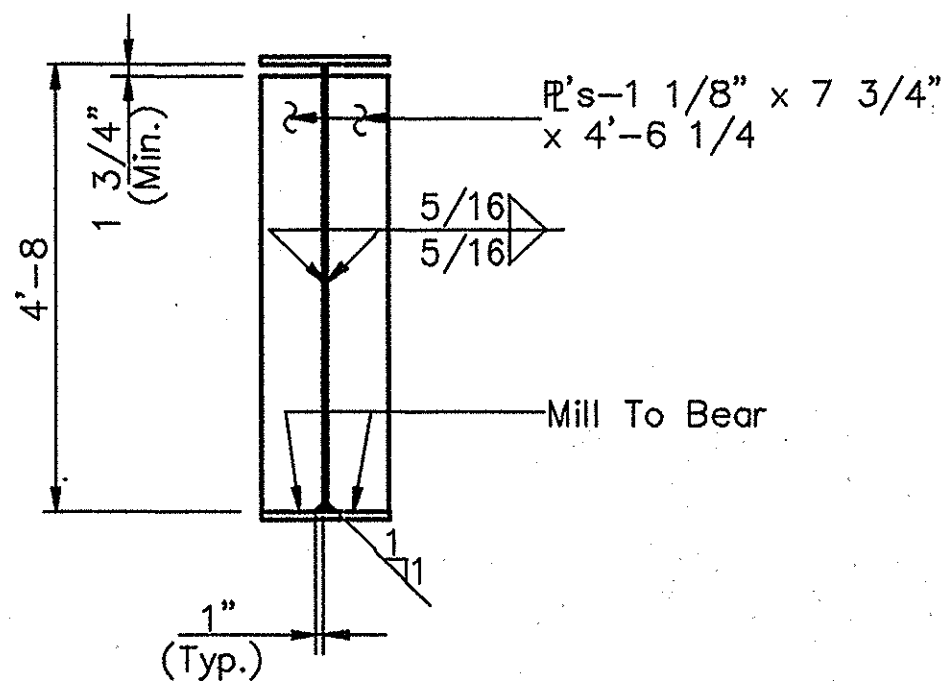
TYPICAL GIRDER SECTION

Scale: 1/2"=1'-0"



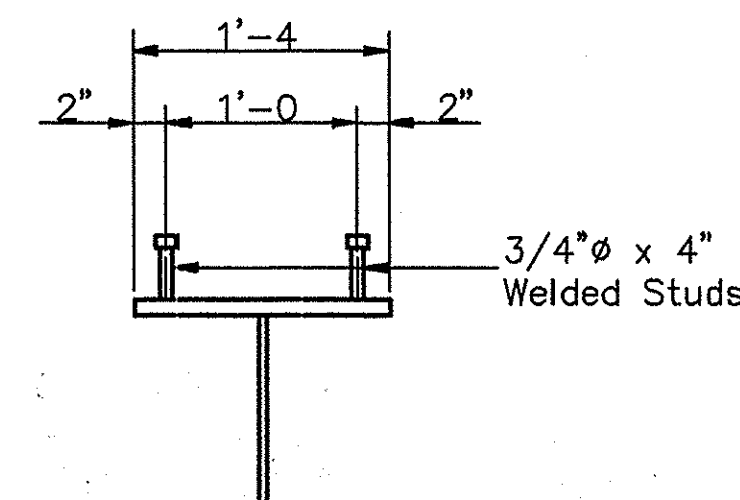
BEARING STIFFENERS @ BENT NO.1 & NO. 3

Scale: 1/2"=1'-0"



BEARING STIFFENERS @ BENT NO.2

Scale: 1/2"=1'-0"

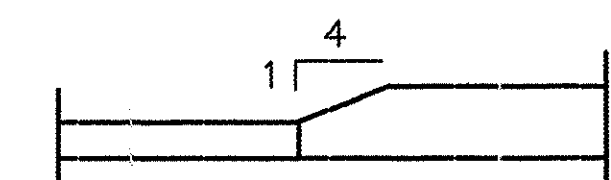


TYPICAL COMPOSITE GIRDER

No Scale

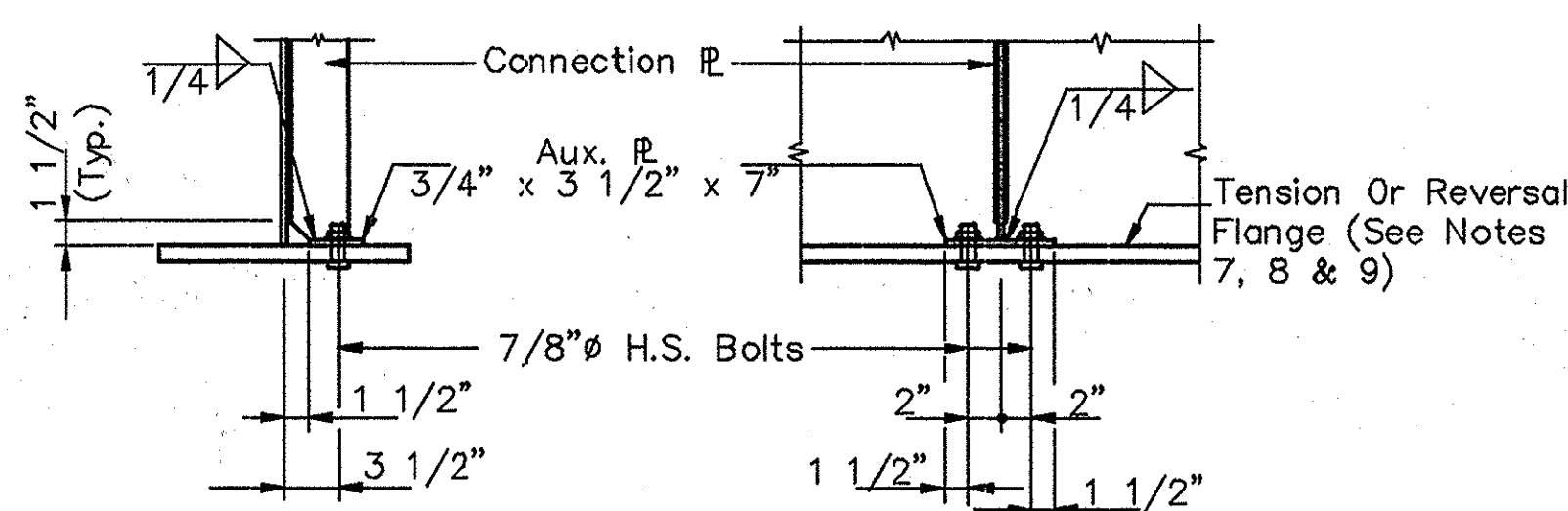
NOTES:

1. For interior girders use transverse stiffeners on one side only.
2. For exterior girders use transverse stiffeners on inside only.
3. For splice details, see Dwg. S10.
4. Clip corners of all stiffeners plates to clear plate girder welds, see details this sheet.
5. For details of jacking frames and diaphragms, see Dwg. S8.
6. All girder webs and flanges shall be ASTM A-572-50, all other steel including splice plates, diaphragm and stiffeners shall be ASTM A-36, except as noted on bearing details, Dwg. S10.
7. Compression stress condition in top flange also indicates tension stress condition in bottom flange.
8. Tension stress condition in top flange also indicates compression stress condition in bottom flange.
9. Reversal stress condition in top flange also indicates reversal stress condition in bottom flange.



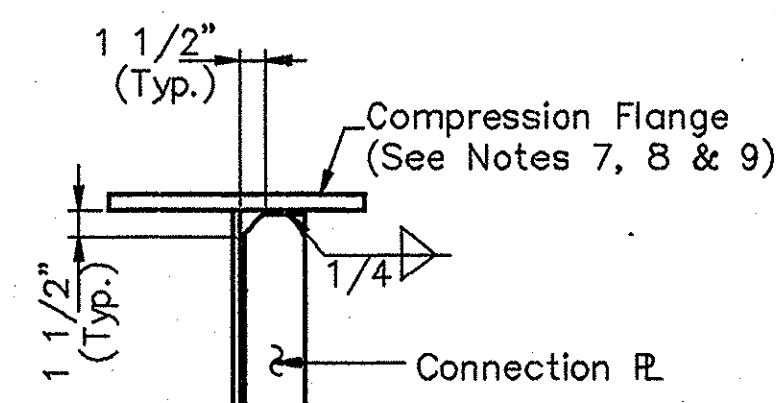
TYPICAL FLANGE SPLICE DETAIL

No Scale



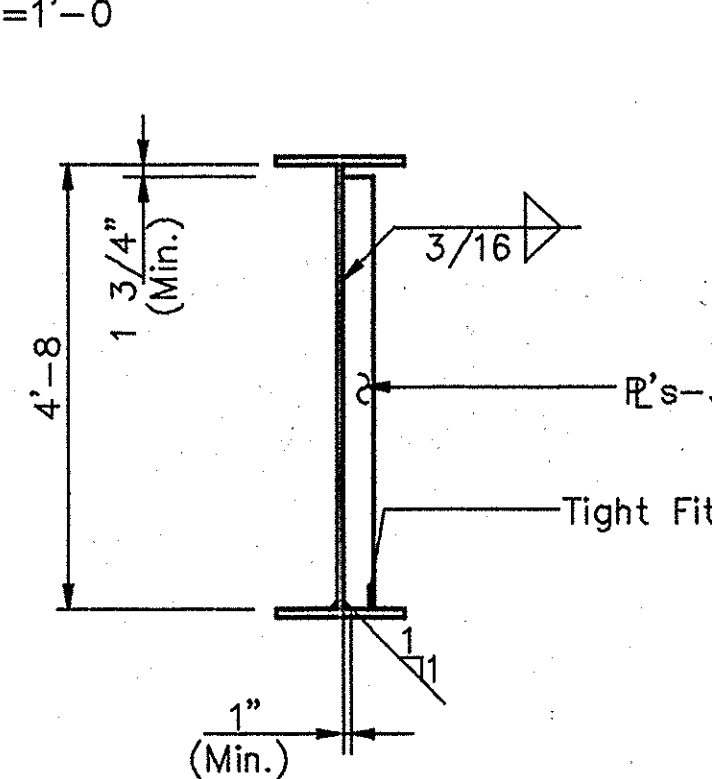
DETAIL "A" CONNECTION R ATTACHMENT @ TENSION OR REVERSAL FLANGE

Scale: 1"=1'-0"



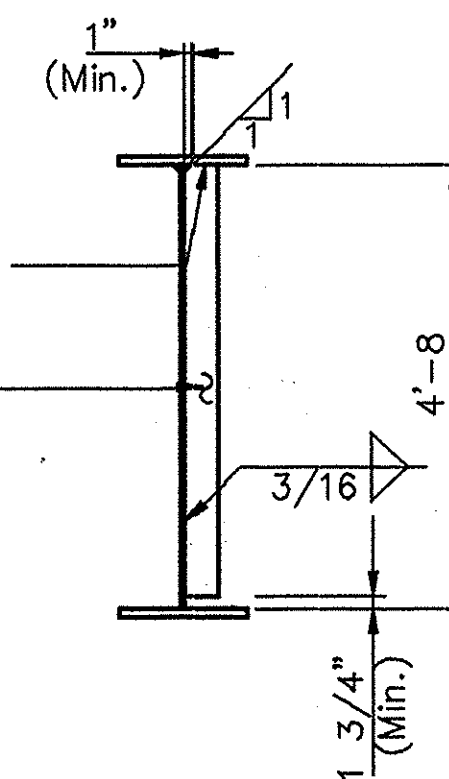
DETAIL "B" CONNECTION R ATTACHMENT @ COMPRESSION FLANGE

Scale: 1"=1'-0"



SECTION "A-A"

Scale: 1/2"=1'-0"



SECTION "B-B"

Scale: 1/2"=1'-0"

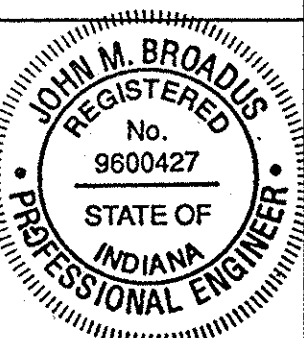
WELDED PLATE GIRDER DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED

DATE: DECEMBER 18 1997

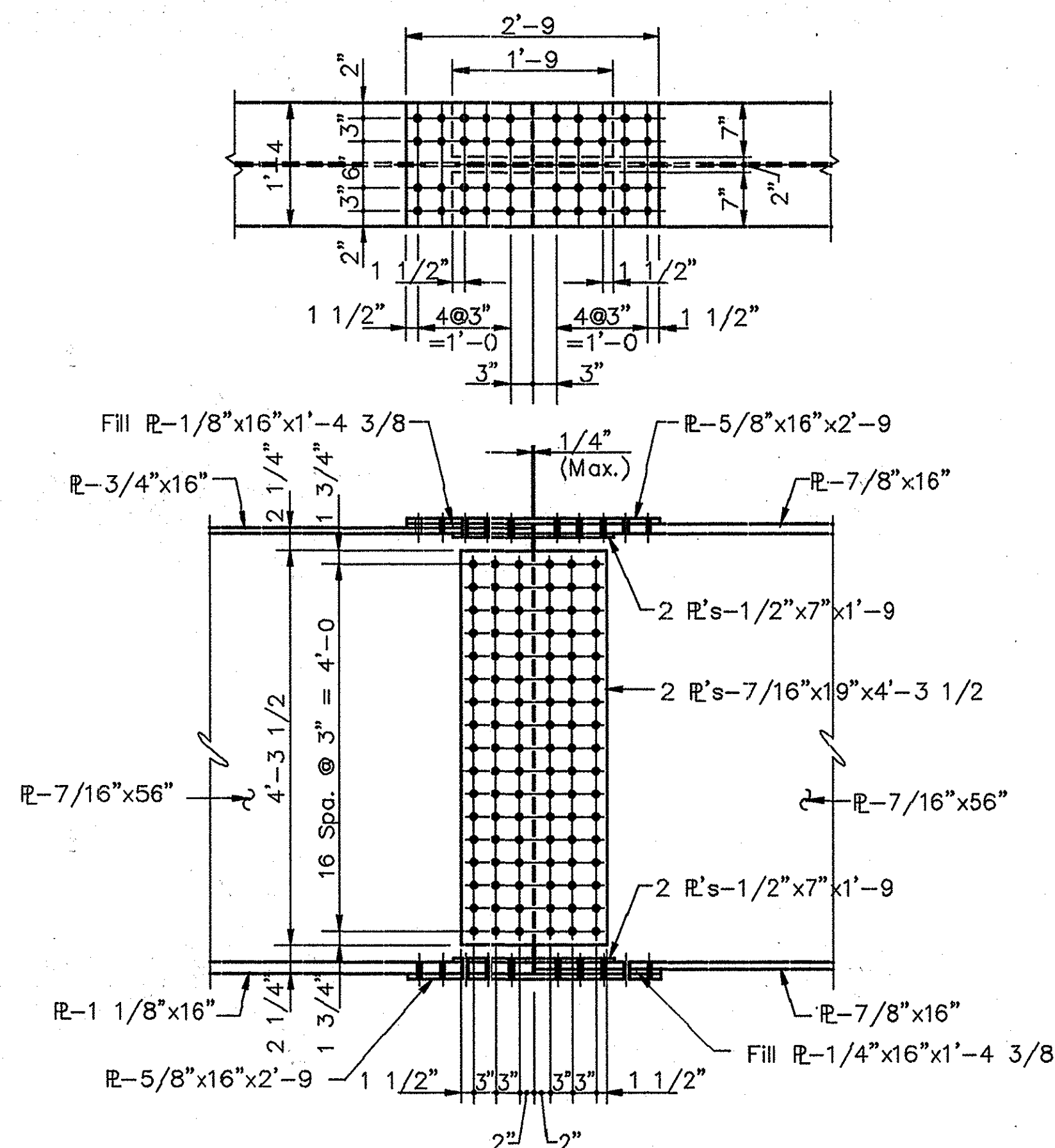
John M. Broadus

DRAWING: S9 OF S14 SHEET: 29 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-8165



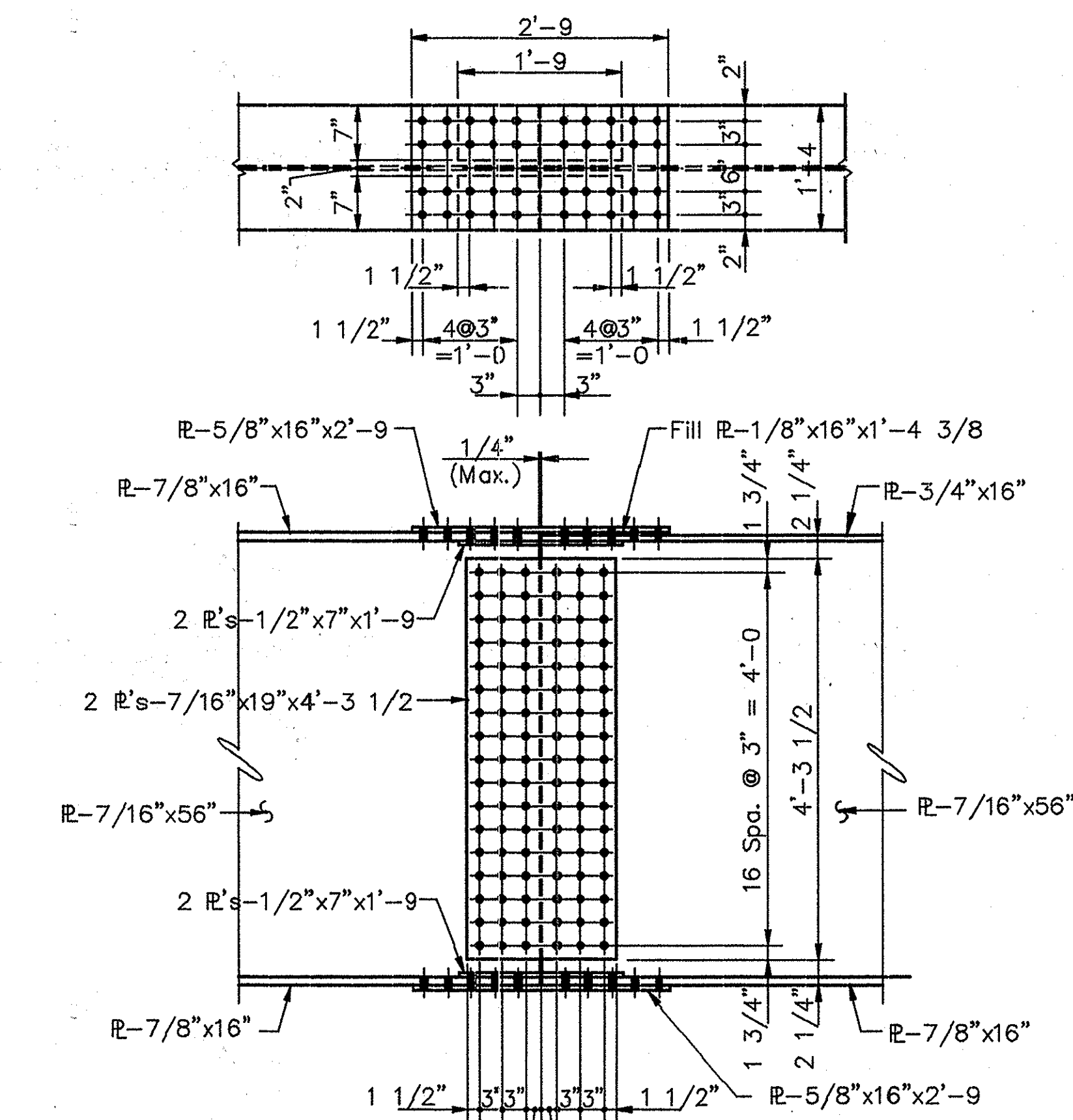
PLOT DATE & TIME: DEC 17, 1987 - 13:08:03

DESIGNED: J.P. checked: J.B.
DRAWN: S.C. & B.S. checked: J.P.
REVISION: checked: J.P.
SHEET REVISED: SEPTEMBER 24, 1992



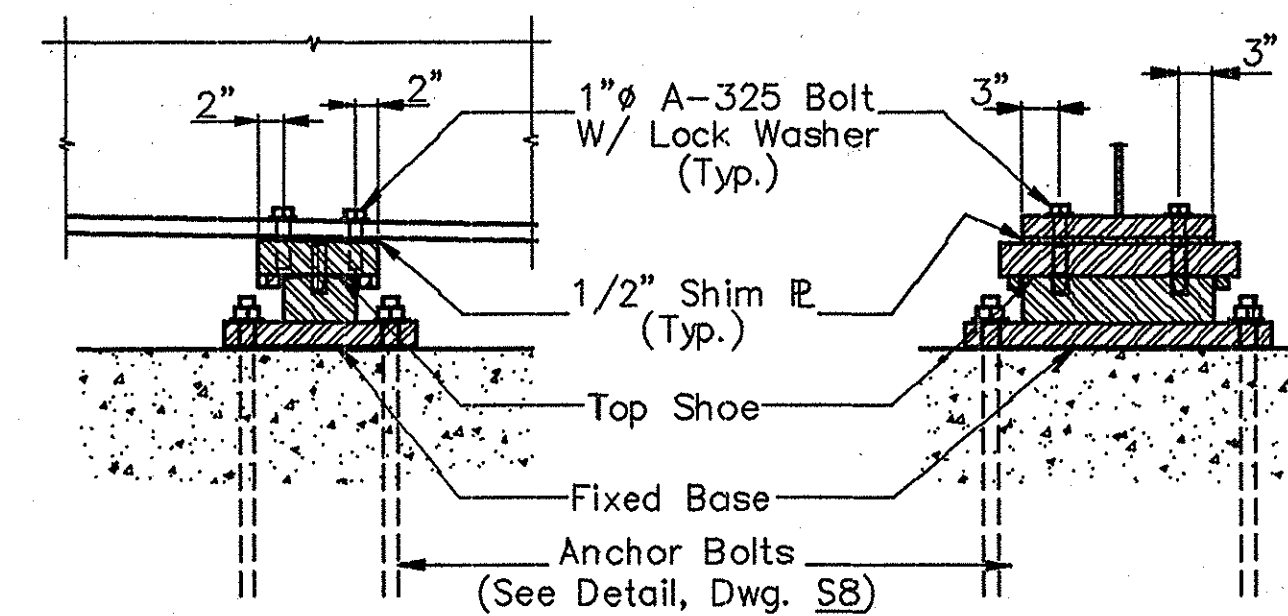
SPlice "A" Detail

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



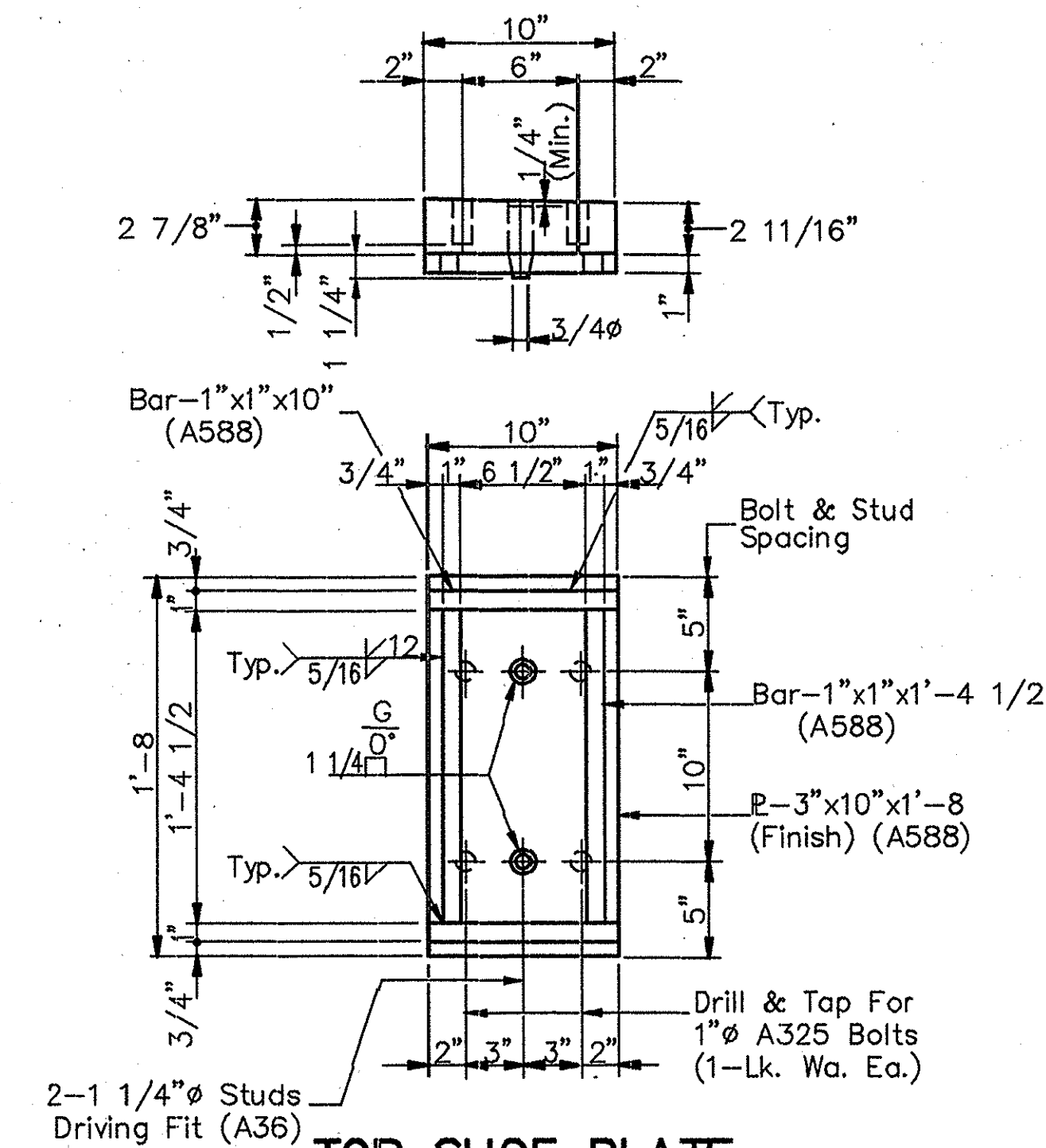
SPlice "B" Detail

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



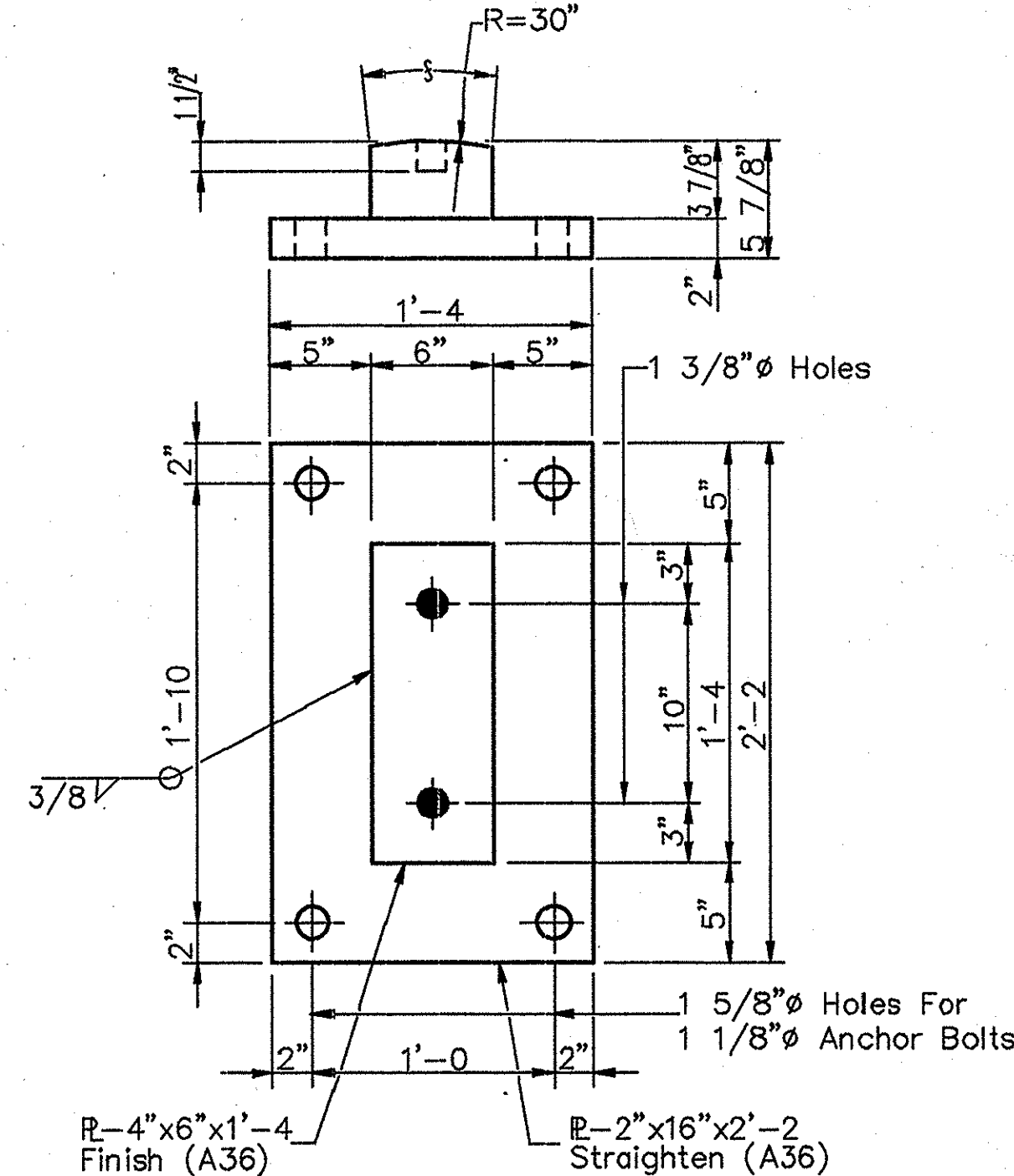
FIXED BEARING ASSEMBLY BENT NO. 2

No Scale



TOP SHOE PLATE

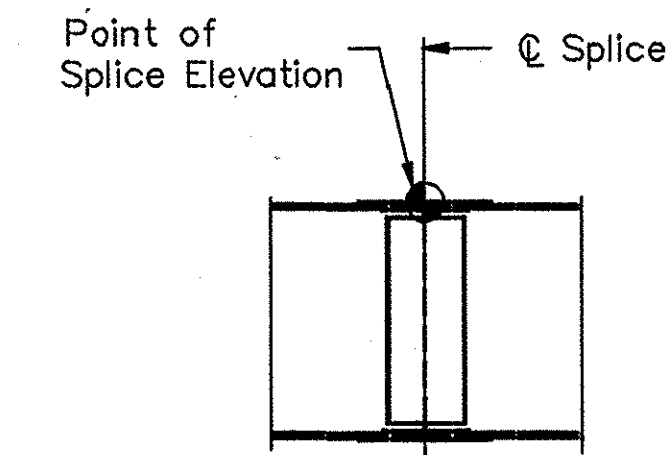
Scale: 1 1/2"=1'-0"



FIXED BASE

Scale: 1 1/2"=1'-0"

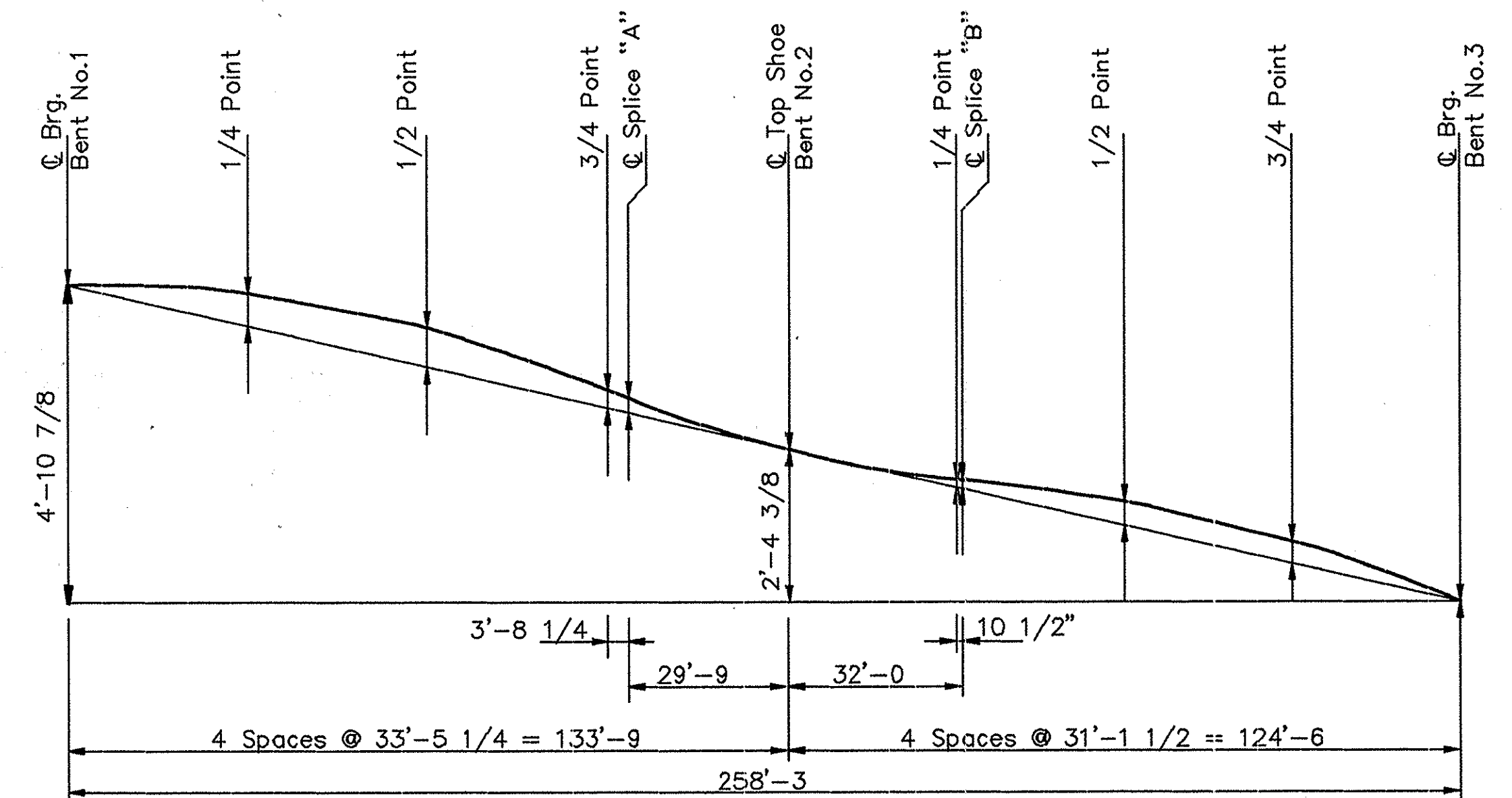
FIXED BEARING DETAIL-BENT NO. 2



SPlice ELEVATION DETAIL

Splice elevations are with falsework removed and carrying steel deadload only. Top of girder splice plate shall be adjusted to the elevations below before bolting field splices.

Location	Gdr. No. 1	Gdr. No. 2	Gdr. No. 3	Gdr. No. 4	Gdr. No. 5	Gdr. No. 6	Gdr. No. 7	Gdr. No. 8
Splice "A"	715.975	716.080	716.195	716.145	716.025	715.910	715.790	715.690
Splice "B"	714.765	714.870	714.990	714.935	714.820	714.700	714.585	714.475



NO LOAD CAMBER AND REAMING DIAGRAM

No Scale

	C. Brg. Bent No. 1	1/4 Point	1/2 Point	3/4 Point	Splice "A"	C. Top Shoe Bent No. 2	1/4 Point	Splice "B"	1/2 Point	3/4 Point	C. Brg. Bent No. 3
Girder No. 1 & 8											
Steel Dead Load	0	0 9/16"	0 11/16"	0 5/16"	0 1/4"	0	0 1/8"	0 1/8"	0 3/8"	0 3/8"	0
Non-Comp. Dead Load	0	2 11/16"	3 1/8"	1 7/16"	1 3/16"	0	0 11/16"	0 11/16"	2"	1 13/16"	0
Comp. Dead Load	0	0 1/8"	0 3/16"	0 1/16"	0 1/16"	0	0 1/16"	0 1/16"	0 1/8"	0 1/16"	0
Sub-Total	0	3 3/8"	4"	1 13/16"	1 1/2"	0	0 7/8"	0 7/8"	2 1/2"	2 1/4"	0
Vertical Curve	0	0	0	0	0	0	0	0	0	0	0
Total Camber	0	3 3/8"	4"	1 13/16"	1 1/2"	0	0 7/8"	0 7/8"	2 1/2"	2 1/4"	0
Girder No. 2 Thru 7											
Steel Dead Load	0	0 9/16"	0 11/16"	0 5/16"	0 1/4"	0	0 1/8"	0 1/8"	0 3/8"	0 3/8"	0
Non-Comp. Dead Load	0	2 5/16"	2 11/16"	1 1/4"	1"	0	0 9/16"	0 5/8"	1 11/16"	1 9/16"	0
Comp. Dead Load	0	0 1/8"	0 3/16"	0 1/16"	0 1/16"	0	0 1/16"	0 1/16"	0 1/8"	0 1/16"	0
Sub-Total	0	3"	3 9/16"	1 5/8"	1 5/16"	0	0 3/4"	0 13/16"	2 3/16"	2"	0
Vertical Curve	0	0	0	0	0	0	0	0	0	0	0
Total Camber	0	3"	3 9/16"	1 5/8"	1 5/16"	0	0 3/4"	0 13/16"	2 3/16"	2"	0

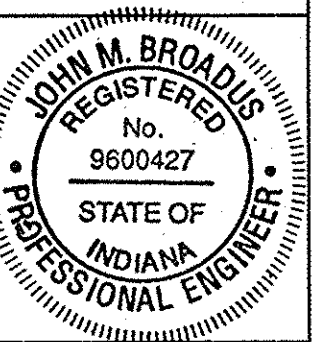
STRUCTURAL STEEL DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED

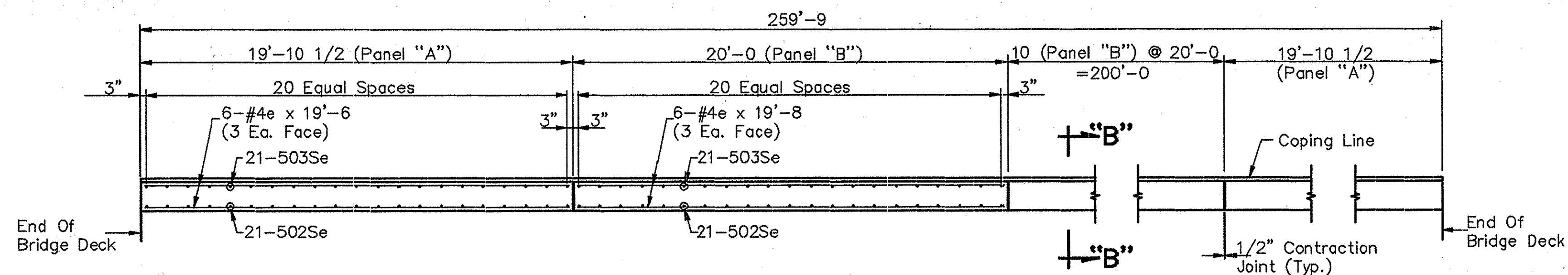
DATE: DECEMBER 18 1997

John M. Broadus

DRAWING: S10 OF S14 SHEET: 30 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R23637
BRIDGE FILE: 24-52-8165

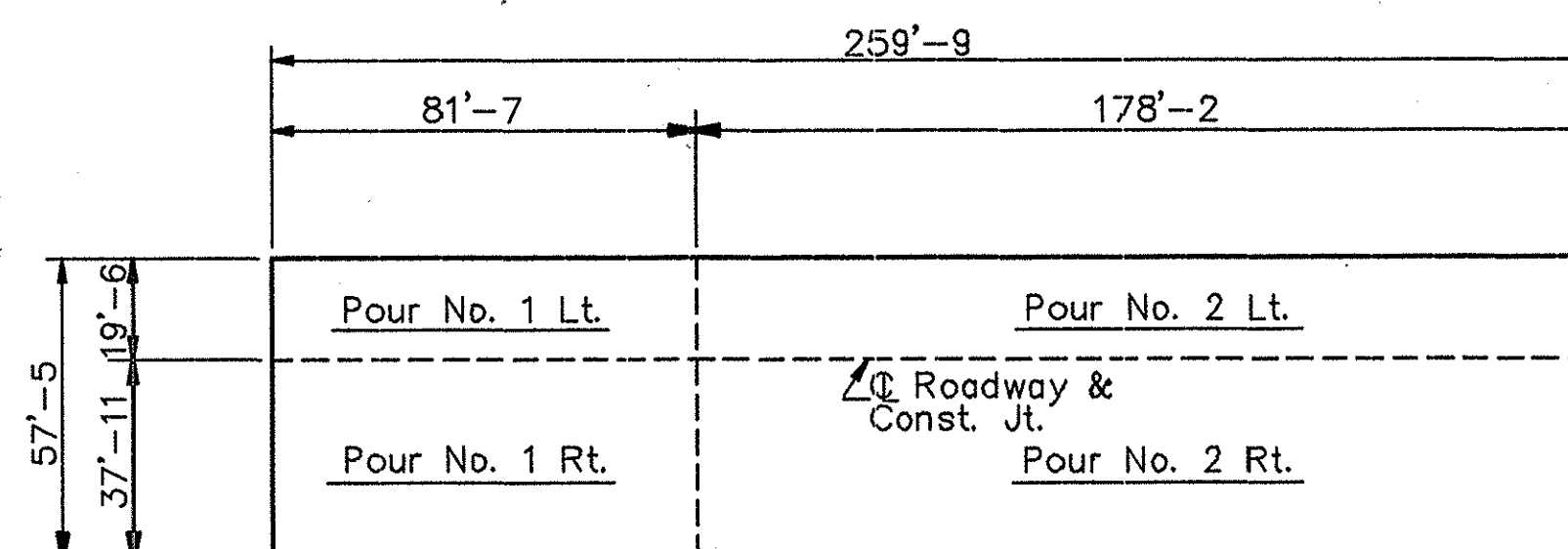


24EBSTLD/24



TYPICAL CONCRETE BRIDGE RAIL PLAN

Scale: 1/4"=1'-0



SCHEDULE OF POURS

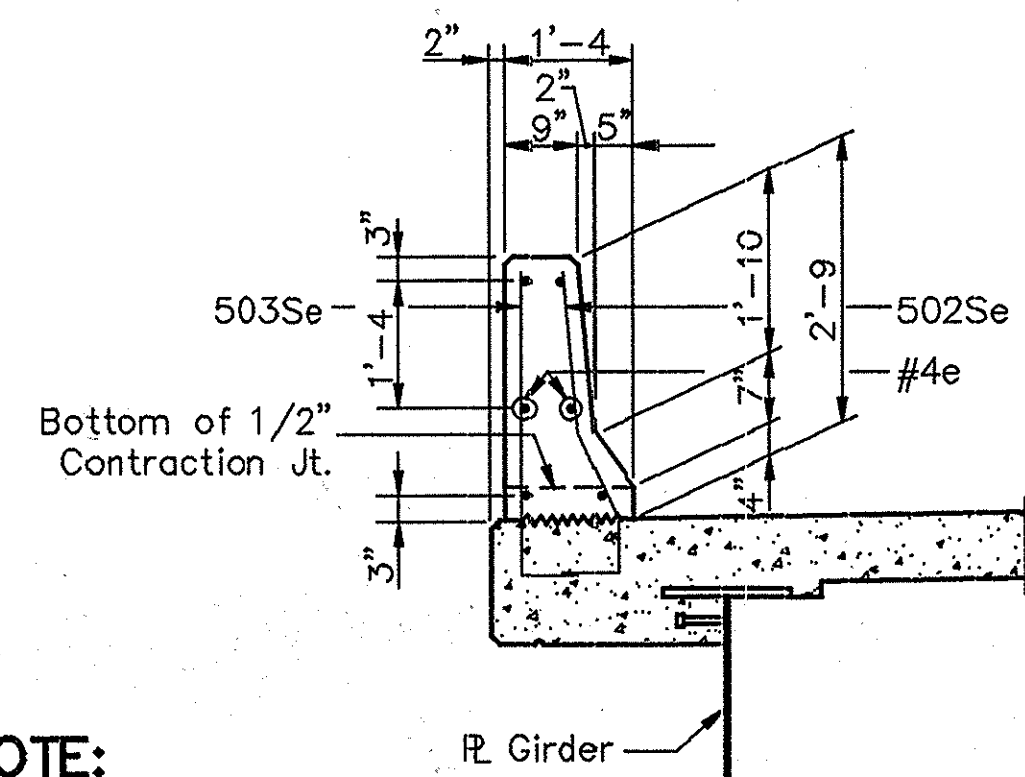
No Scale

NOTE:

Sequence of pours to be made in the order of pour numbers. All superstructure construction joints are optional, except as noted, and pours may be made continuous provided the pour terminates at a construction joint indicated on the plans. The contractor may change the width of pours, sequence of pours or location of construction joints subject to the approval of the engineer.

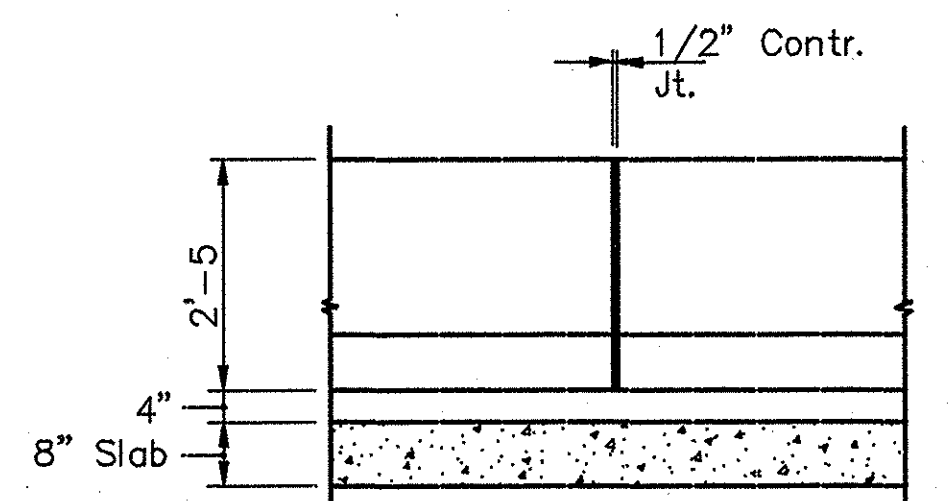
BILL of MATERIALS

SIZE or MK	NO. of BARS	LENGTH	WEIGHT
#6e	57	40'-0	
#6e	57	25'-0	
#6e	57	22'-3	
TOTAL #6e			7470#
501Se	878	14'-3	
502Se	546	3'-11	
503Se	546	3'-9	
#5e	835	40'-0	
#5e	505	35'-0	
#5e	439	19'-8	
#5e	16	3'-3	
TOTAL #5e			79746#
401Se	512	3'-7	
402Se	512	2'-0	
#4e	348	40'-0	
#4e	132	19'-8	
#4e	24	19'-6	
#4e	116	15'-3	
TOTAL #4e			14437#
TOTAL EPOXY COATED REINFORCING CLASS "C" CONCRETE			101653#
POUR NO. 1 Lt.			62.5 C.Y.
POUR NO. 1 Rt.			113.3 C.Y.
POUR NO. 2 Lt.			115.8 C.Y.
POUR NO. 2 Rt.			211.7 C.Y.
TOTAL CLASS "C" CONCRETE IN SLAB			503.3 C.Y.
TOTAL CLASS "C" CONCRETE IN RAILING			50.6 C.Y.
MISCELLANEOUS			
SURFACE SEAL			18488 S.F.
BARRIER DELINEATORS			26 Each
2-ROADWAY DRAINS TYPE "OS-D"			644#
2-6" C.I. DRAIN PIPE x 4'-5 LONG (EXTRA HEAVY)			169#
2" Ø STEEL CONDUIT			260 L.F.



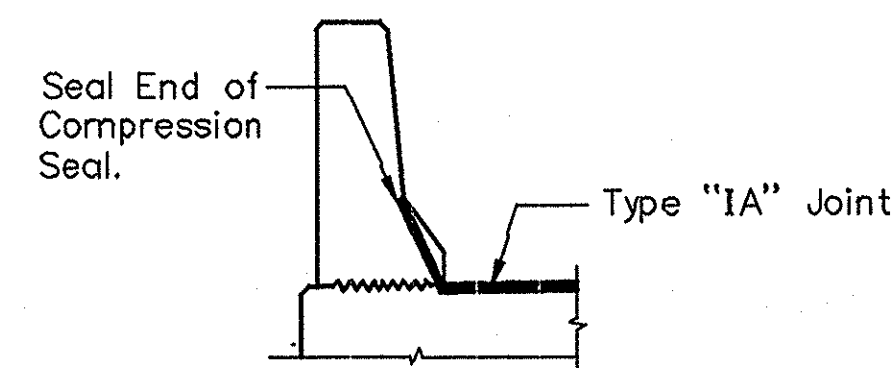
SECTION "B-B"

Scale: 1/2"=1'-0



RAILING CONTRACTION JOINT DETAIL

Scale: 1/2"=1'-0



TYPE "IA" JOINT TREATMENT AT BRIDGE RAIL

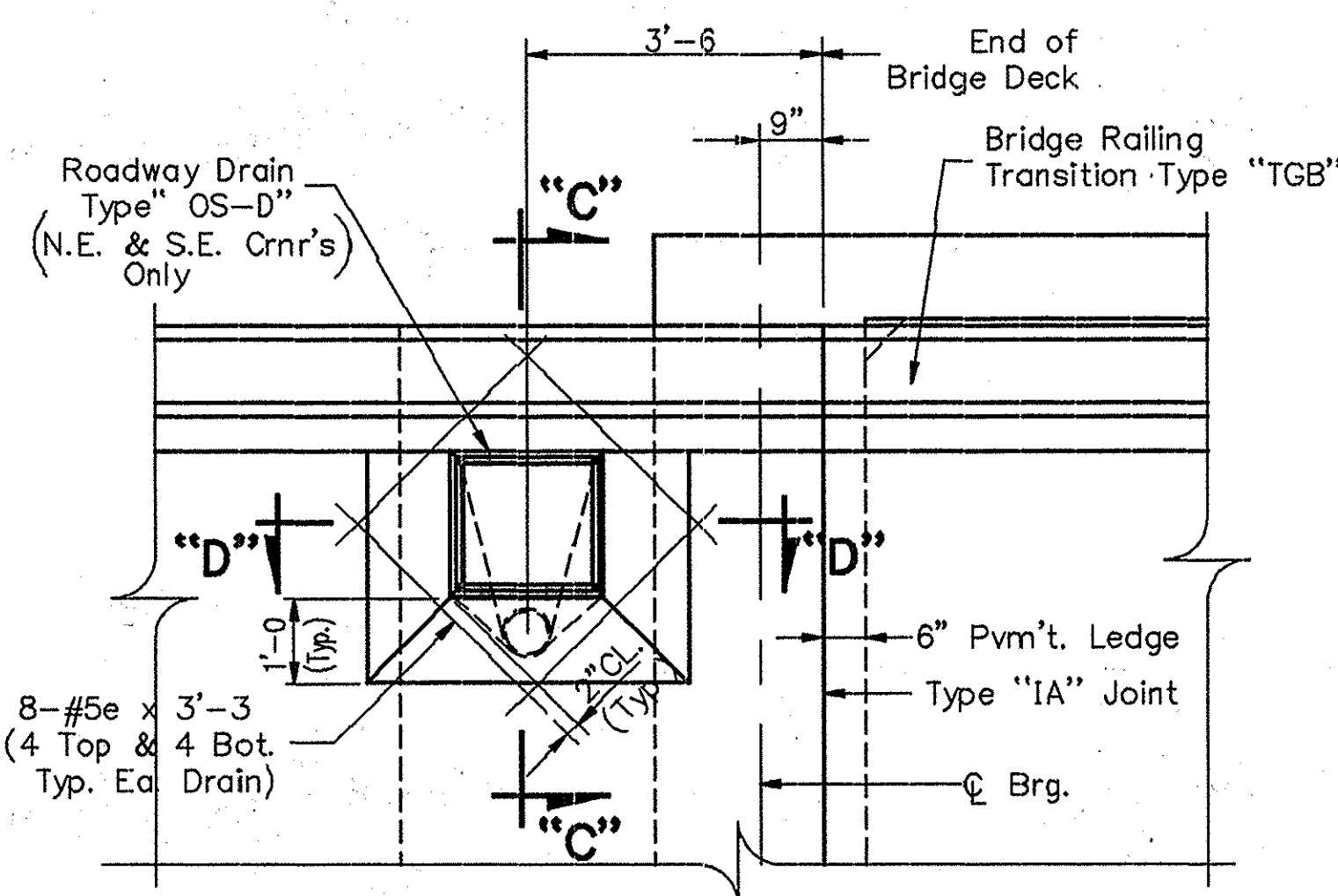
Scale: 1/2"=1'-0



503Se x 3'-9

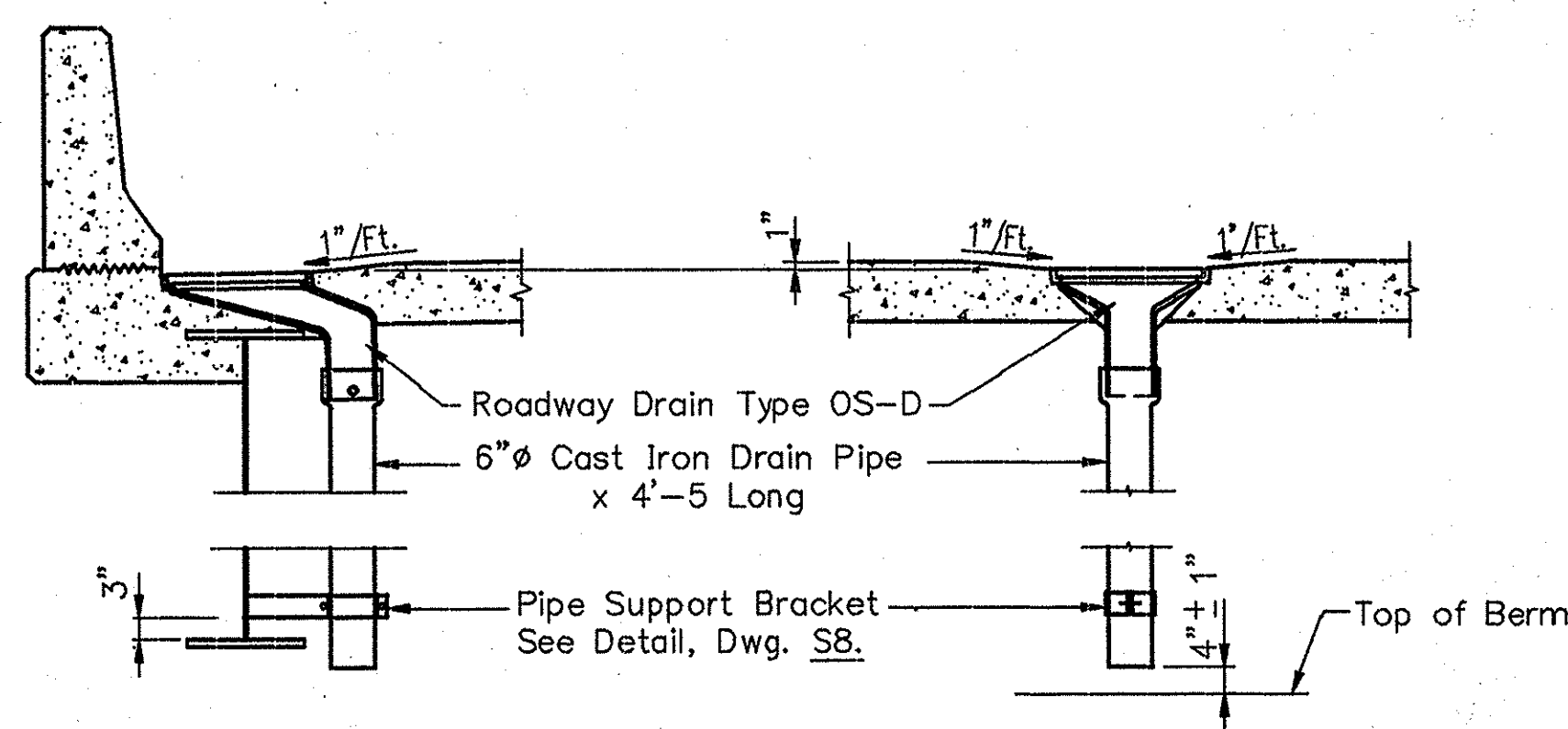
502Se x 3'-11

NOTE:
For optional splice in vertical railing reinforcing steel, see Br. Std. C3.



TYPICAL CORNER DETAIL

Scale: 1/2"=1'-0

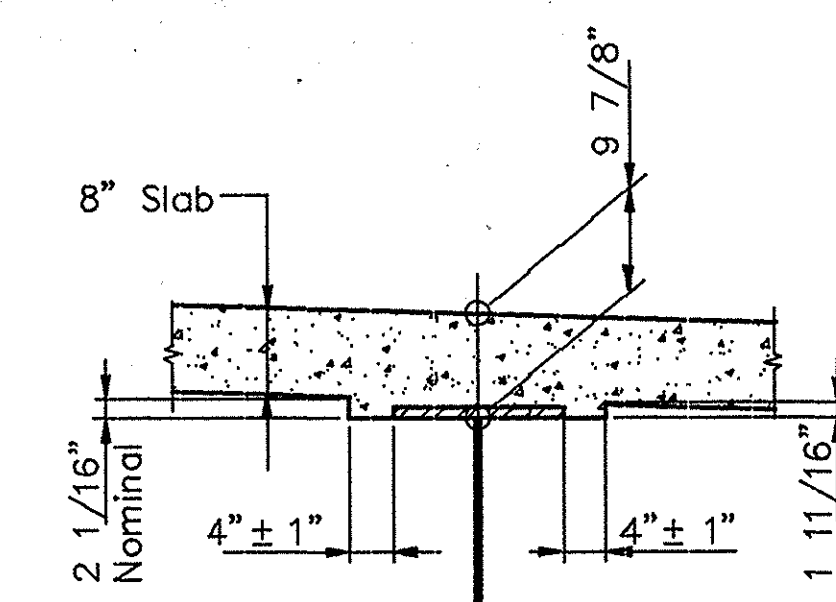


SECTION "C-C"

Scale: 1/2"=1'-0

SECTION "D-D"

Scale: 1/2"=1'-0

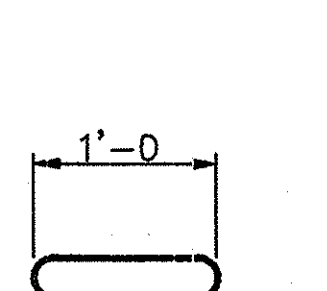


FILLET DETAIL

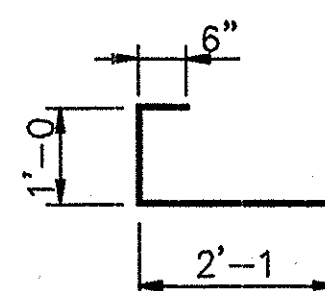
No Scale

NOTE:

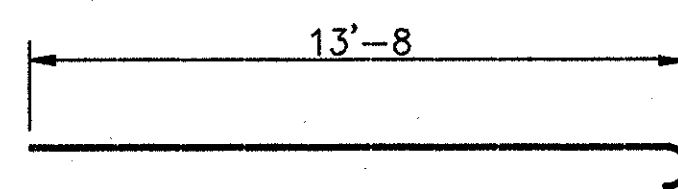
See Dwg. S11 for Notes.



402Se x 2'-0



401Se x 3'-7



501Se x 14'-3

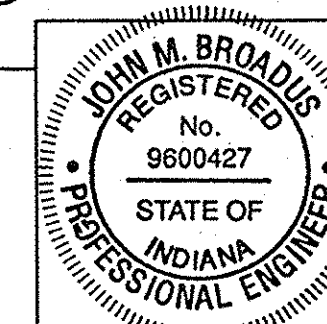
**SUPERSTRUCTURE DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION**

SCALE: AS NOTED

DATE: **DECEMBER 18** 1997

John H. Bracken

DRAWING: S12 OF S14 SHEET: 32 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-8165

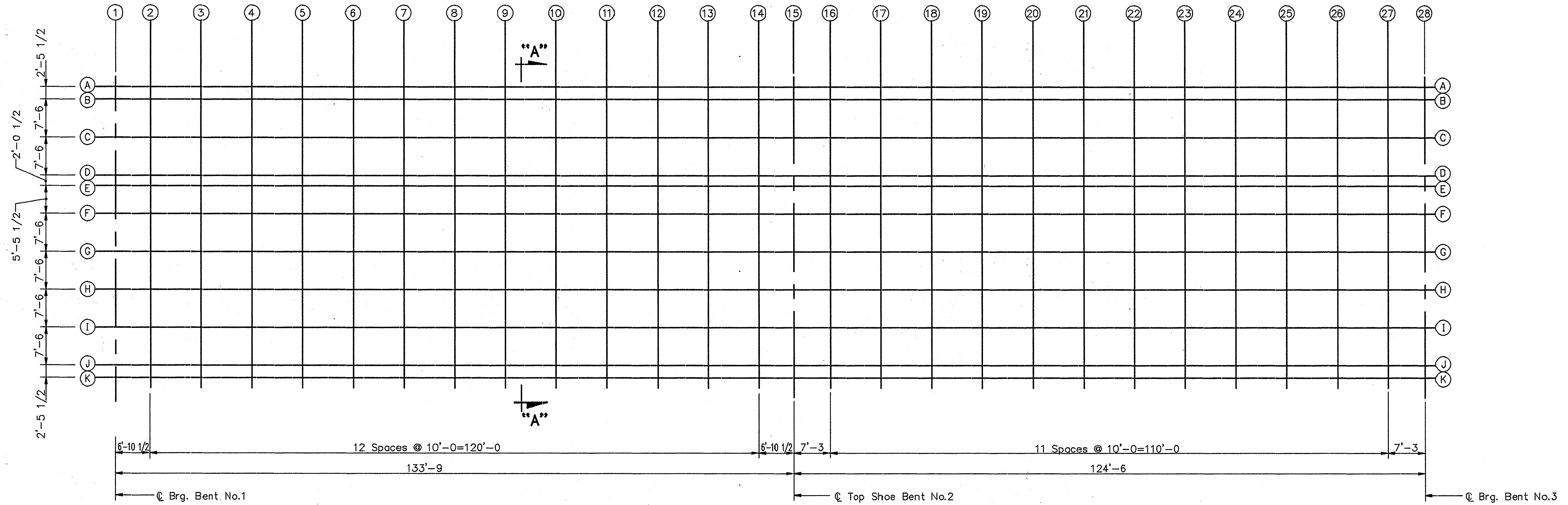


24E5UPD/48

PLOT DATE & TIME: DEC. 17, 1997 - 14:44:23

DESIGNED: MP CHECKED: JB
DRAWN: S.C. 4/93 CHECKED: MP 2/94
REVISED: SEPTEMBER 24, 1992 SHEET

PLOT DATE & TIME: DEC. 17, 1997 - 14:46:50



SCREED PLAN

Scale: 3/32"=1'-0

NOTES:

1. "Screed Plan" shows location of screeds.
2. "Screed Elevations Table", Dwg. S14, shows data for setting screed and coping forms so that the slab and coping will be at final grade elevation after all concrete has been poured.
3. See Dwg. S2 for General Notes.
4. See Dwg's. S11 & S12 for additional notes and details.

GENERAL PROCEDURE

1. Take elevations at all screed points on top of the adjacent beam, enter these elevations in the "Screed Elevation" Table, Dwg. S14. Subtract these elevations from the tabulated elevations and use the resulting dimension as the height for setting the screed or coping forms above that point. This dimension remains unchanged regardless of how much or in what order the concrete is poured. Do not set screed or coping forms by leveling.
2. No concrete in the deck is to be poured until the above operation is completed.

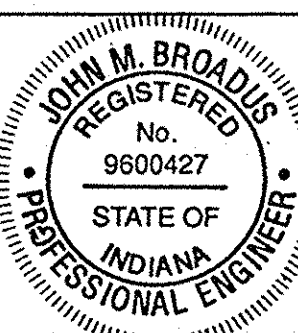
SCREED DATA
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED

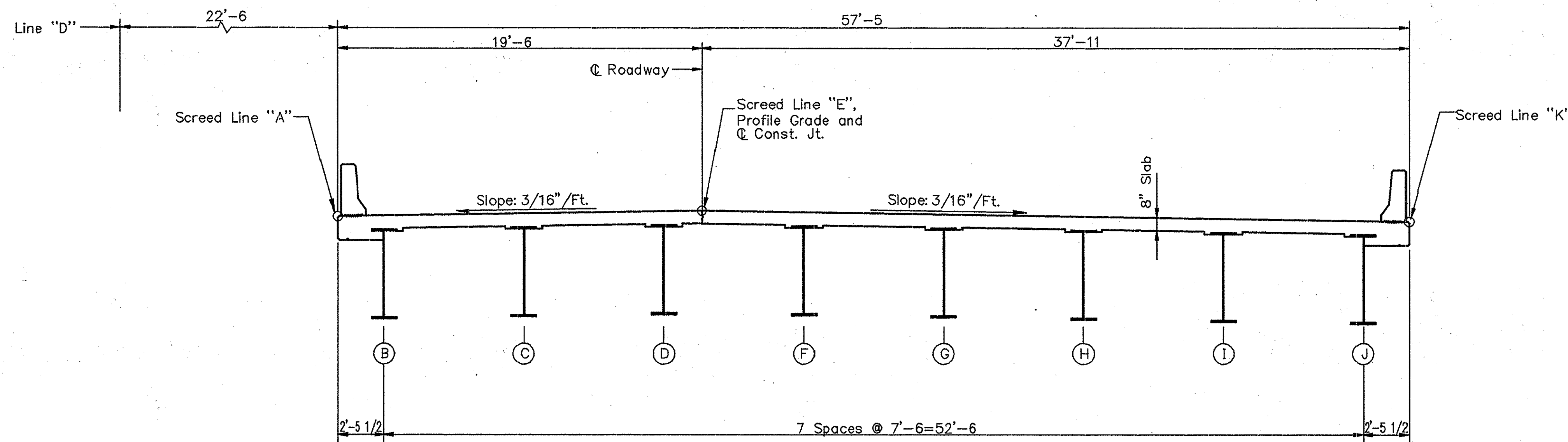
DATE: DECEMBER 18 1997

John M. Broadus

DRAWING: S13 OF S14 SHEET: 33 OF 53
PROJECT: NH-144-6(012)
BRIDGE CONTRACT NO. R-23637
BRIDGE FILE: 24-52-8165



24EBSR1/128



SECTION "A-A"

Scale: 1/4"=1'-0

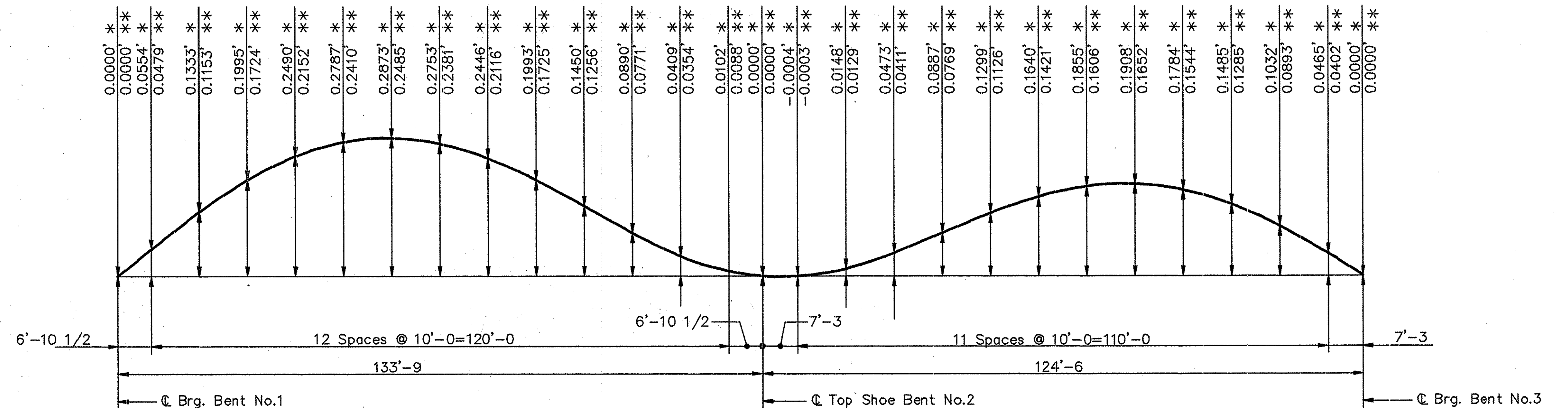
DESIGNED: MP
DRAWN: S.G.
CHECKED: ME
REVISIONS:
SHEET: 24
REVISED: SEPTEMBER 24, 1992

SCREED ELEVATIONS

POINT		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
A	ELEVATION-TOP OF SCREED	718.505	718.430	718.320	718.195	718.055	717.895	717.715	717.510	717.290	717.055	716.810	716.565	716.330	716.105	715.965	715.830	715.655	715.495	715.345	715.200	715.045	714.875	714.690	714.485	714.265	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										
B	ELEVATION-TOP OF SCREED	718.545	718.470	718.360	718.235	718.095	717.935	717.755	717.550	717.330	717.095	716.850	716.605	716.365	716.145	716.005	715.865	715.690	715.535	715.385	715.235	715.080	714.915	714.730	714.525	714.305	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										
C	ELEVATION-TOP OF SCREED	718.665	718.580	718.460	718.325	718.180	718.015	717.830	717.630	717.415	717.185	716.950	716.710	716.480	716.260	716.120	715.985	715.805	715.645	715.490	715.335	715.175	715.005	714.820	714.620	714.405	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										
D	ELEVATION-TOP OF SCREED	718.780	718.700	718.575	718.440	718.295	718.130	717.950	717.750	717.530	717.300	717.065	716.825	716.595	716.380	716.240	716.100	715.925	715.765	715.610	715.455	715.295	715.120	714.935	714.735	714.520	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										
E	ELEVATION-TOP OF SCREED	718.810	718.730	718.605	718.475	718.325	718.165	717.980	717.780	717.565	717.335	717.095	716.860	716.625	716.410	716.270	716.135	715.955	715.795	715.640	715.485	715.325	715.155	714.970	714.770	714.550	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										
F	ELEVATION-TOP OF SCREED	718.725	718.645	718.520	718.390	718.240	718.075	717.895	717.695	717.480	717.250	717.010	716.775	716.540	716.325	716.185	716.050	715.870	715.710	715.555	715.400	715.240	715.070	714.885	714.685	714.465	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										
G	ELEVATION-TOP OF SCREED	718.610	718.525	718.405	718.270	718.125	717.960	717.780	717.575	717.360	717.130	716.895	716.655	716.425	716.210	716.070	715.930	715.755	715.590	715.440	715.285	715.125	714.950	714.765	714.565	714.350	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										
H	ELEVATION-TOP OF SCREED	718.495	718.410	718.285	718.155	718.005	717.845	717.660	717.460	717.245	717.015	716.780	716.540	716.305	716.090	715.950	715.815	715.635	715.475	715.320	715.165	715.005	714.835	714.650	714.450	714.230	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										
I	ELEVATION-TOP OF SCREED	718.375	718.295	718.170	718.035	717.890	717.725	717.545	717.345	717.125	716.895	716.660	716.420	716.190	715.975	715.835	715.695	715.520	715.360	715.205	715.050	714.890	714.715	714.530	714.330	714.115	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										
J	ELEVATION-TOP OF SCREED	718.260	718.185	718.070	717.945	717.805	717.645	717.465	717.265	717.040	716.805	716.565	716.315	716.080	715.860	715.715	715.580	715.405	715.245	715.100	714.950	714.795	714.625	714.440	714.240	714.020	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										
K	ELEVATION-TOP OF SCREED	718.220	718.145	718.030	717.910	717.770	717.610	717.425	717.225	717.005	716.770	716.525	716.280	716.040	715.820	715.680	715.540	715.365	715.210	715.060	714.910	714.755	714.585	714.400	714.200	713.980	
	ELEVATION-TOP OF BEAM																										
	DISTANCE-TOP OF BEAM TO TOP OF SCREED																										

SCREED ELEVATIONS

POINT		26	27	28
A	ELEVATION-TOP OF SCREED	714.030	713.785	713.600
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			
B	ELEVATION-TOP OF SCREED	714.070	713.825	713.640
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			
C	ELEVATION-TOP OF SCREED	714.175	713.935	713.755
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			
D	ELEVATION-TOP OF SCREED	714.290	714.050	713.875
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			
E	ELEVATION-TOP OF SCREED	714.325	714.085	713.905
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			
F	ELEVATION-TOP OF SCREED	714.235	714.000	713.820
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			
G	ELEVATION-TOP OF SCREED	714.120	713.880	713.705
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			
H	ELEVATION-TOP OF SCREED	714.005	713.765	713.585
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			
I	ELEVATION-TOP OF SCREED	713.885	713.645	713.470
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			
J	ELEVATION-TOP OF SCREED	713.785	713.535	713.350
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			
K	ELEVATION-TOP OF SCREED	713.745	713.495	713.315
	ELEVATION-TOP OF BEAM			
	DISTANCE-TOP OF BEAM TO TOP OF SCREED			



CONCRETE DEAD LOAD DEFLECTIONS

* Deflections on Lines A,B,J & K
 ** Deflections on Lines C Thru I

No Scale

NOTE:

See Dwg. S13 for additional details and notes.

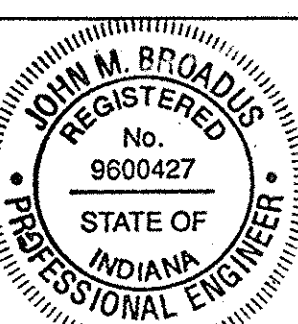
SCREED DATA
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: NO SCALE

DATE: **DECEMBER 18 1997**

John M. Broadus

DRAWING: S14 OF S14 SHEET: 34 OF 53
 PROJECT: NH-144-6(012)
 BRIDGE CONTRACT NO. R-23637
 BRIDGE FILE: 24-54-8165



24EBCSR2/48

PLOT DATE & TIME: DEC. 17, 1997 - 14:49:41

DESIGNED: MP
 DRAWN: S.C. 4-93
 CHECKED: MP
 REVISION:
 SHEET REVISED: JUNE 16, 1992

