

CODE: 3516

PROJECT	DESIGNATION
BRF-5229 ( )	9137360
CONTRACT	BRIDGE FILE
	38-29-7852

INDEX				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
38-29-7852	CONTINUOUS REINFORCED CONCRETE SLAB	6.5 m, 8 m, 6.5 m; SQUARE	SLY RUN	1+377.500

SHEET NO.	SUBJECT
1	INDEX AND TITLE SHEET
2	PLAT NO. 1 2A-LOCATION CONTROL SURVEY PLAT
3-4	TYPICAL CROSS SECTIONS
5	TEMPORARY RUNAROUND DETAILS
6-7	ROAD PLAN AND PROFILE
8	LAYOUT
9	GENERAL PLAN
10	BRIDGE SUMMARY
11-26	CROSS SECTIONS

# INDIANA DEPARTMENT OF TRANSPORTATION

EQUIVALENT SINGLE AXLE LOADS	
MAINLINE ESAL	
SHOULDER ESAL	
TEMPORARY RUNAROUND ESAL	

TRAFFIC DATA		
A. A. D. T. (1995)		10200 V.P.D.
A. A. D. T. (2015)		21500 V.P.D.
D. H. V. (2015)		1935 V.P.H.
DIRECTIONAL DISTRIBUTION		%
TRUCKS		5 % D.H.V.
		8 % A.A.D.T.
DESIGN DATA		
DESIGN SPEED		90 km/hr
PROJECT DESIGN CRITERIA		3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION		PRINCIPAL ARTERIAL
RURAL/URBAN		URBAN (SUBURBAN)
TERRAIN		LEVEL
ACCESS CONTROL		NONE

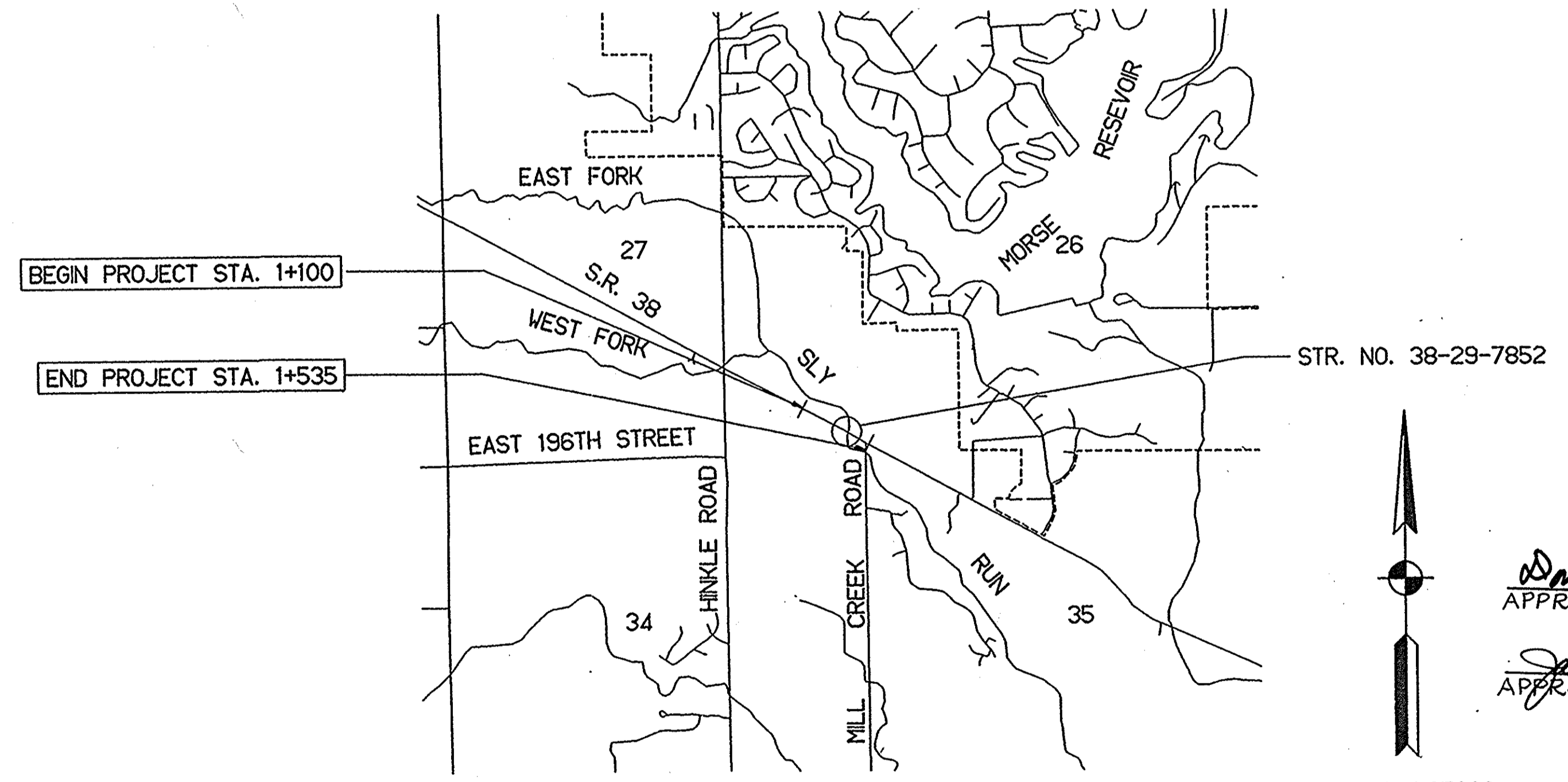
## BRIDGE PLANS FOR SPANS OVER 6.1 METERS ROUTE: S.R. 38 AT: R.P. 54+025

PROJECT NO. ~~ST-5229(A) P.E.~~  
~~ST-5229(A) R/W~~  
~~BRF-5229( ) CONST.~~

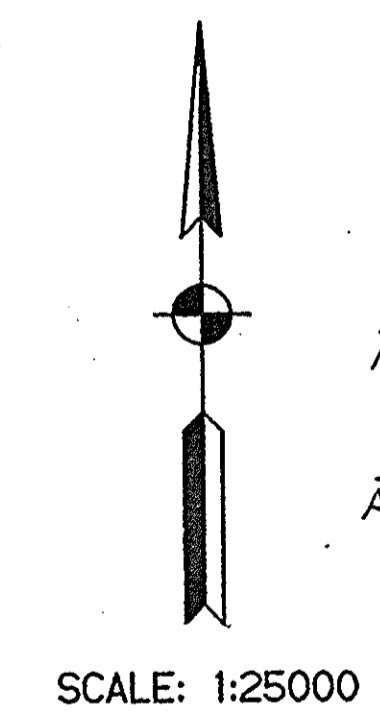
S.R. 38-BRIDGE REPLACEMENT OVER SLY RUN.  
4 km WEST OF S.R. 32 IN HAMILTON COUNTY.



BRIDGE LENGTH :	0.021 km
ROADWAY LENGTH :	0.414 km
TOTAL LENGTH :	0.435 km
MAX. GRADE :	-3.30 %



HAMILTON COUNTY  
NOBLESVILLE TOWNSHIP  
T-19-N, R-4-E



*Donald E. Christy* (ACTING MGR) 1-14-98  
APPROVED: MANAGER, RJW ENGINEERING SECTION

*Justin Marks* 1-14-98  
APPROVED: CHIEF, DIVISION OF LAND ACQUISITION

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 1995  
TO BE USED WITH THESE PLANS

REVISIONS	
DATE	SHEET NO.

FEDERAL HIGHWAY ADMINISTRATION  
U.S. DEPT. OF TRANSPORTATION

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

DIVISION ADMINISTRATOR

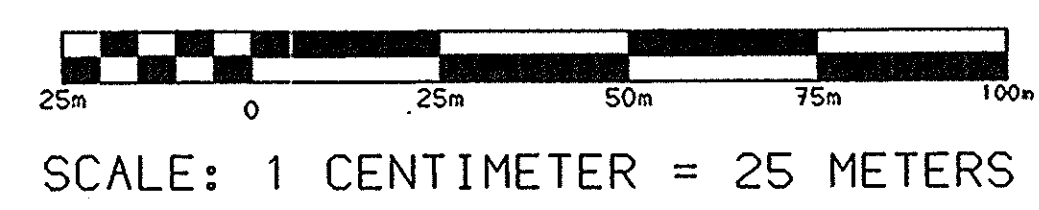
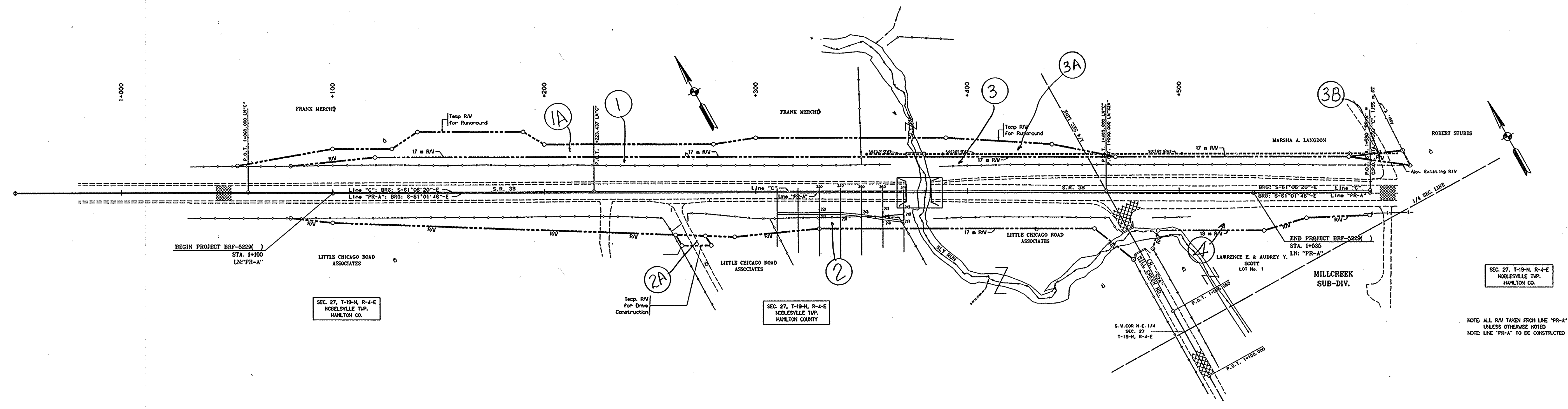
PLANS PREPARED BY: \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_

CERTIFIED BY: \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED FOR LETTING: \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF, DIVISION OF DESIGN

BRIDGE FILE	38-29-7852
DESIGNATION	9137360
SURVEY BOOK	BR-3325
SHEETS	1 of 11
CONTRACT	PROJECT
	BRF-5229 ( )



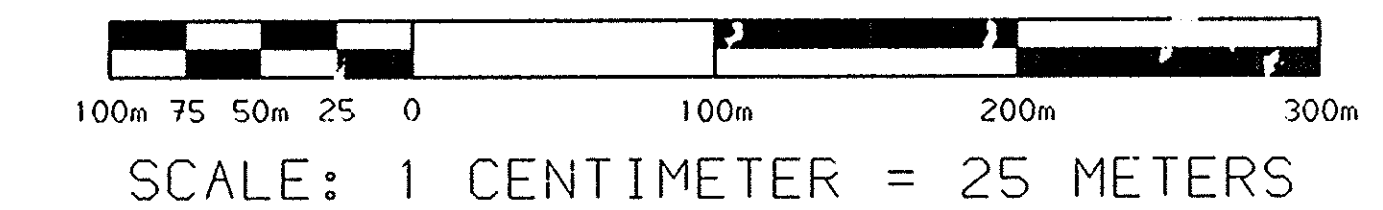
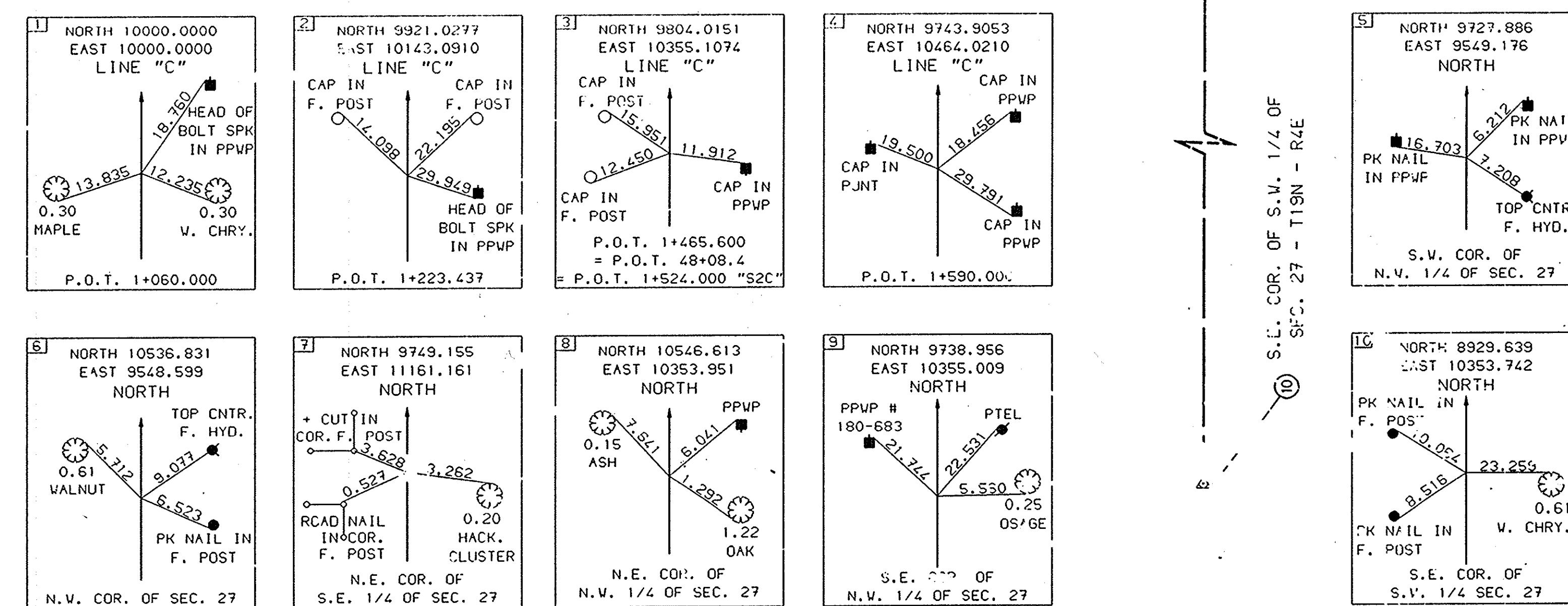
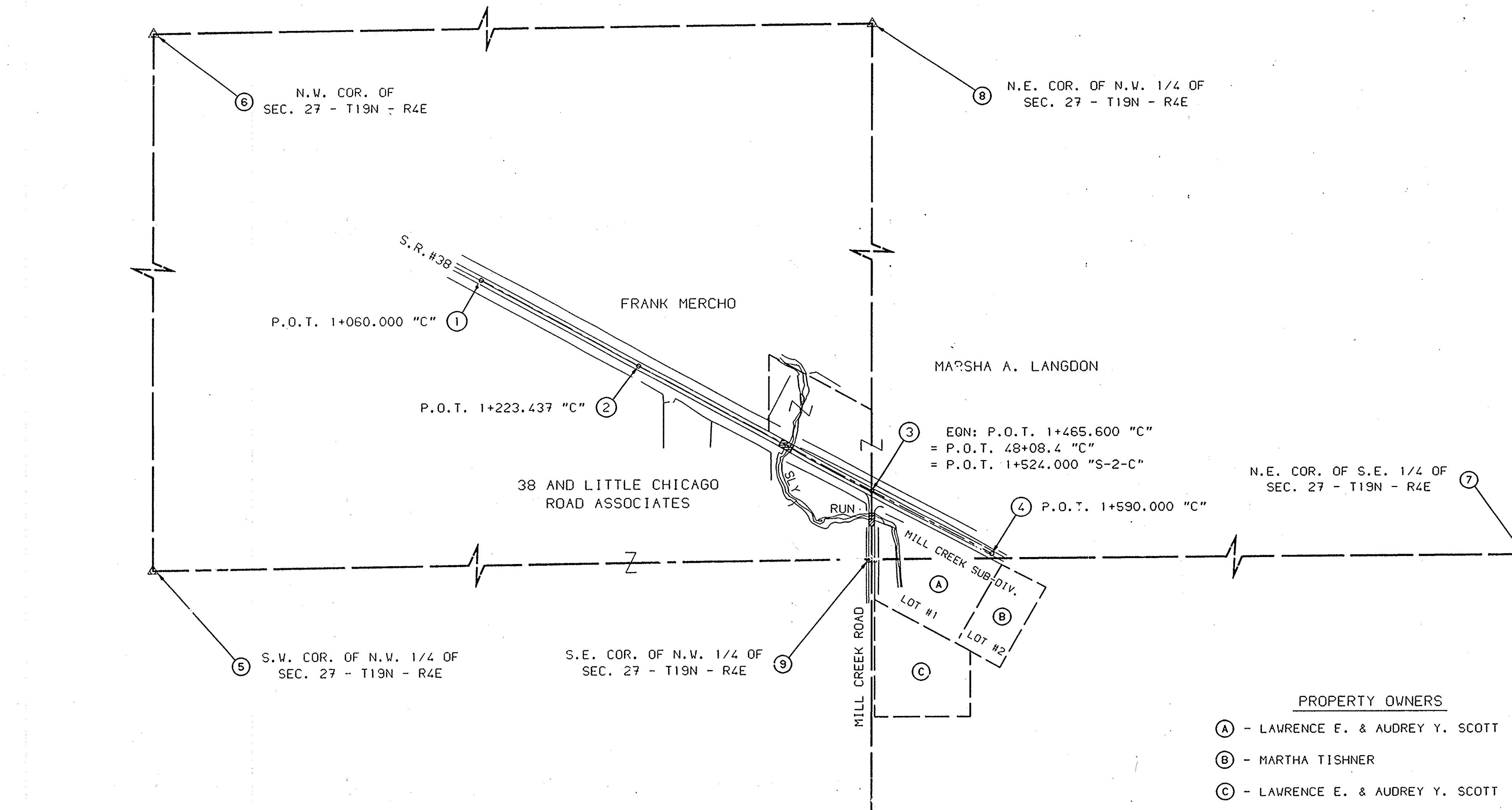
	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	SCALE	BRIDGE FILE
				38-29-7852
	DESIGNED: _____ DRAWN: _____ CHECKED: _____ CHECKED: _____	PLAT NO. 1	DESIGNATION	SHEETS
			9137360	2 of
			SURVEY BOOK	PROJECT
			BR-3325	BRF-5229 ( )
			CONTRACT	

GENERAL:

- ALL MONUMENT REFERENCE TIES ARE SHOWN ON THE ROUTE SURVEY PLAT.
- SHOULD ADDITIONAL USPLS CORNERS BE NEEDED WHERE NONE WERE FOUND, THEY SHOULD BE REESTABLISHED AND TIED INTO THIS SURVEY.
- ITEM NUMBERS REFER TO MONUMENT NUMBERS SHOWN ON ROUTE SURVEY PLAT PAGE NUMBER INDICATED ABOVE.

ALIGNMENT WAS OBTAINED BY RECOVERING POINTS OF A ROAD SURVEY MADE IN 1973 AT P.O.T. 40+13.9 & P.O.T. 48+08.40 LINE "C" PROJECT NO. ST-438-A. STATIONING ON THESE POINTS WERE CONVERTED TO METERS, USING 1+223.437 AT P.O.T. 40+13.9 & 1+465.600 @ P.O.T. 48+08.40. STATIONING FOR THIS SURVEY RUNS FROM 1+060.000 TO 1+590.000. NOTES FOR PROJECT ST-438-A CAN BE FOUND IN BOOK NO. 9850 T & L. NO ROAD OR BRIDGE PLANS WERE AVAILABLE FOR THIS SURVEY. ROAD PLANS ON PROJECT # ST-438-B EAST OF MILL CREEK ROAD SEE SHEET NO. 6 OF PLANS.

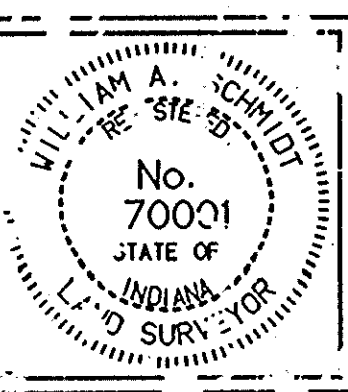
1. SET ROAD NAIL FLUSH AT POINT ON TANGENT AT STARTING POINT OF LINE "C". ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
2. FOUND ORIGINAL IRON FIN LIGHT AT POINT ON TANGENT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
3. FOUND ORIGINAL IRON PIN LIGHT AT POINT ON TANGENT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
4. SET ROAD NAIL FLUSH AT POINT ON TANGENT AT END OF LINE "C". ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
5. FOUND STONE WITH + CUT IN TOP, 0.25 m BELOW BLACKTOP PAVEMENT. A RAILROAD SPIKE WAS SET OVER STONE. INFORMATION FROM THE HAMILTON COUNTY SURVEYOR CORNER UNCERTAINTY IS CONSIDERED NEGLIGIBLE.
6. FOUND LIMESTONE WITH + CUT IN TOP, 0.30 m BELOW BLACKTOP PAVEMENT. A RAILROAD SPIKE WAS SET OVER STONE. INFORMATION FROM THE HAMILTON COUNTY SURVEYOR. CORNER UNCERTAINTY IS CONSIDERED NEGLIGIBLE.
7. FOUND 13 mm REBAR, 0.15 m BELOW GROUND LEVEL. INFORMATION FROM DEED DESCRIPTION. CORNER UNCERTAINTY IS ESTIMATED TO BE PLUS OR MINUS 5 m.
8. FOUND 0.15 m x 0.30 m LIMESTONE WITH HIGH POINT 0.38 m BELOW GROUND LEVEL. STONE IS ON EAST SIDE OF FENCE POST WITH FENCE LINE TO THE WEST. INFORMATION FROM THE SUB-DIVISION PLAT OF SOUTH HARBOUR. CORNER UNCERTAINTY IS CONSIDERED NEGLIGIBLE.
9. FOUND RAILROAD SPIKE FLUSH WITH BLACKTOP PAVEMENT. INFORMATION FROM FIELD BOOK NO. 0850 T & L OF ROAD SURVEY PROJECT #ST-438-A. CORNER UNCERTAINTY IS ESTIMATED TO BE PLUS OR MINUS 5 m.
10. FOUND 0.15 m x 0.15 m GRANITE STONE WITH HIGH POINT 0.13 m BELOW BLACKTOP PAVEMENT. A PK NAIL WAS SET OVER STONE. INFORMATION FROM THE HAMILTON COUNTY SURVEYOR. CORNER UNCERTAINTY IS CONSIDERED NEGLIGIBLE.



SURVEY STARTED
12-21-1992
SURVEY COMPLETED
1-29-1993
ROUTE PLAT SHEETS
1 of 1

FIELD SURVEYOR STATEMENT

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, WAS MADE ACCORDING TO THE PROVISIONS OF 865 I.C. 1-12-2, REGARDING SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



RECOMMENDED FOR APPROVAL

*William A. Schindler* 5/9/96

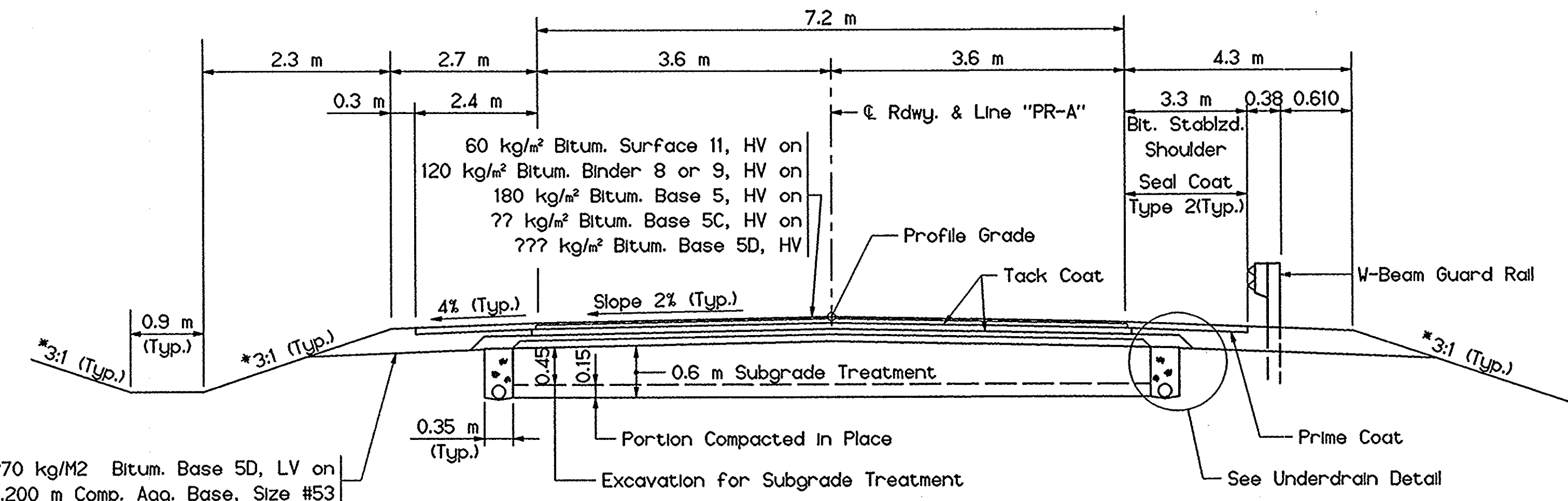
REGISTERED LAND SURVEYOR, FIELD DATE

INDIANA DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1:2500	38-29-7852
COUNTY	DESIGNATION
HAMILTON	9137360
SURVEY BOOK	PLAN SHEETS
	2A of 11
CONTRACT	PROJECT
	ST-5229(A)



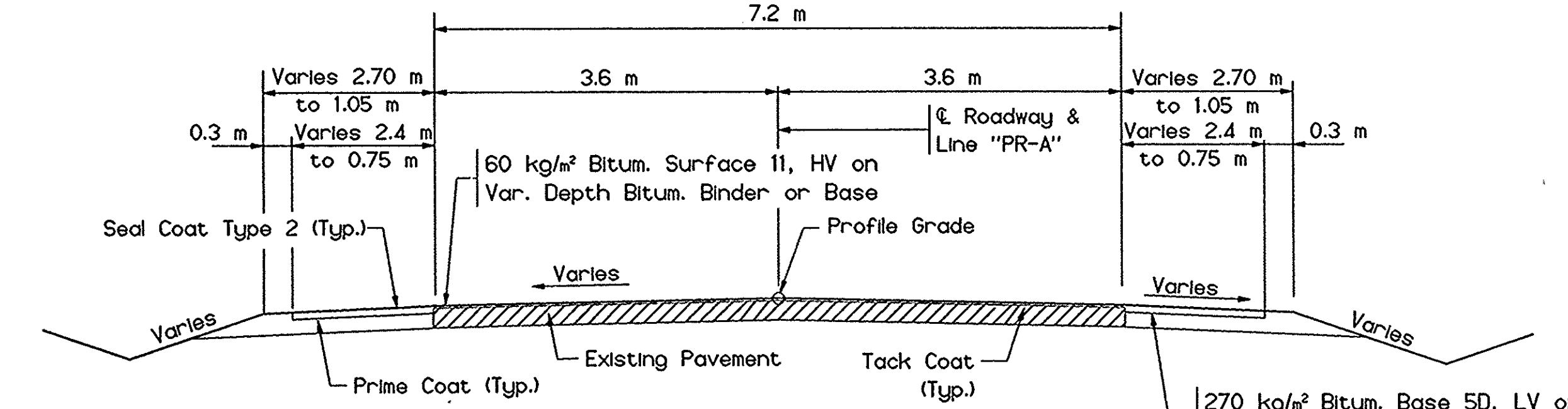


270 kg/M2 Bitum. Base 5D, LV on 0.200 m Comp. Agg. Base, Size #53

\* Unless Noted 2:1 on Cross Sections

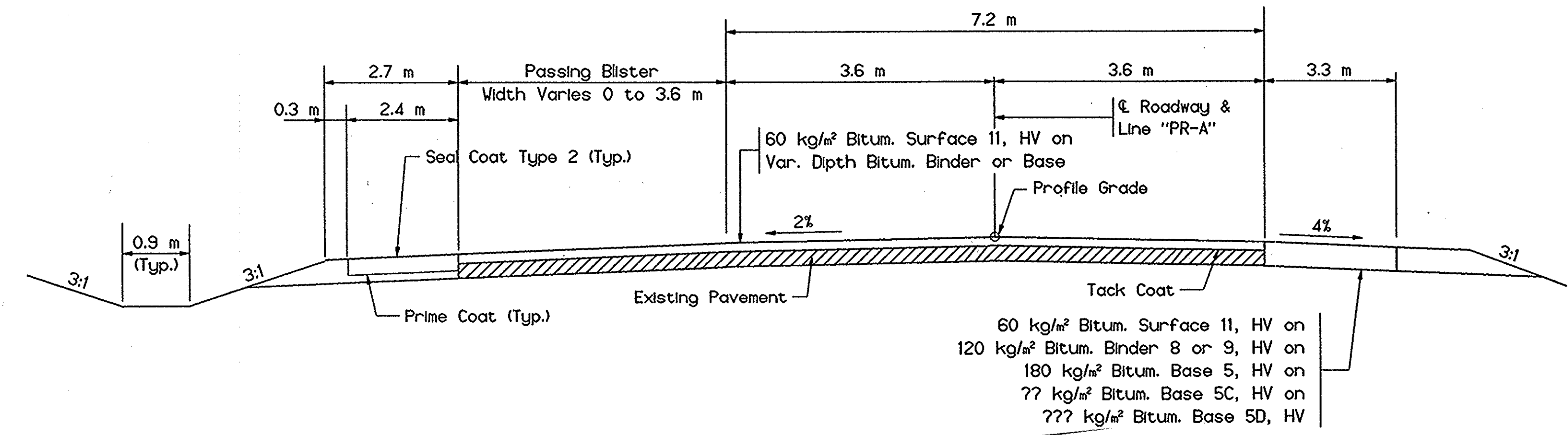
**TYPICAL FULL DEPTH SECTION**  
Sta. 1+100 to Sta. 1+360.525

Note: This side shows Typical Section with Guard Rail



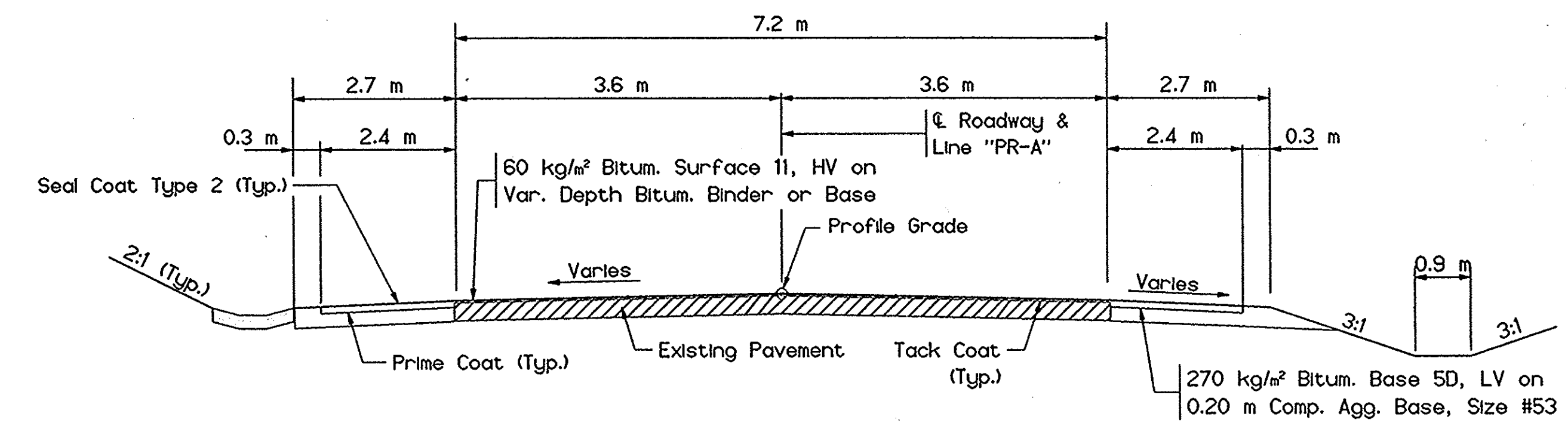
270 kg/m² Bitum. Base 5D, LV on 0.20 m Comp. Agg. Base, Size #53

**TYPICAL INCIDENTAL SECTION**  
Sta. 1+060 to Sta. 1+100



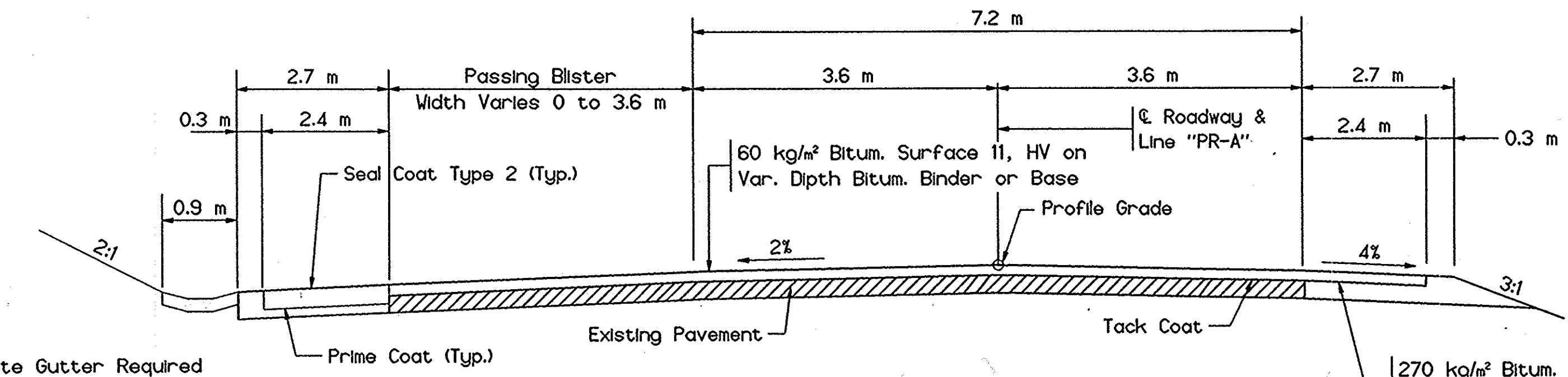
Note: Full Depth Shoulder from End of Bridge to Public Road Approach

**TYPICAL WEDGE AND LEVEL SECTION**  
Sta. 1+394.475 to Sta. 1+460



270 kg/m² Bitum. Base 5D, LV on 0.20 m Comp. Agg. Base, Size #53

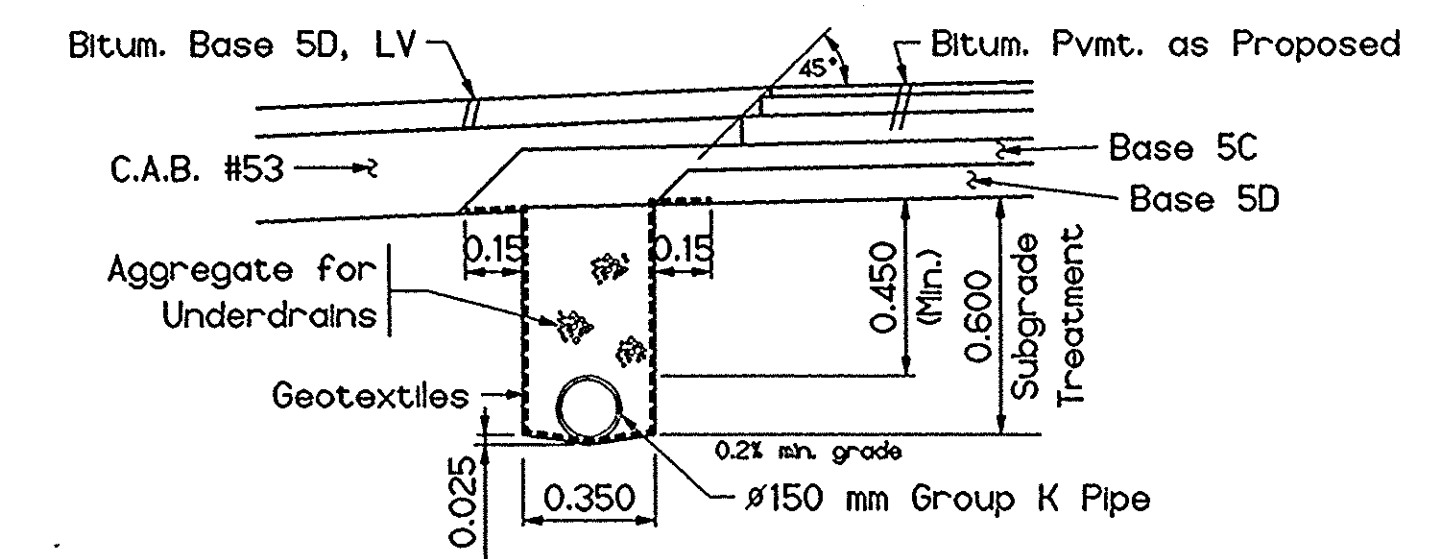
**TYPICAL INCIDENTAL SECTION**  
Sta. 1+535 to Sta. 1+600



Note: Concrete Gutter Required Sta. 1+480 to Sta. 1+590

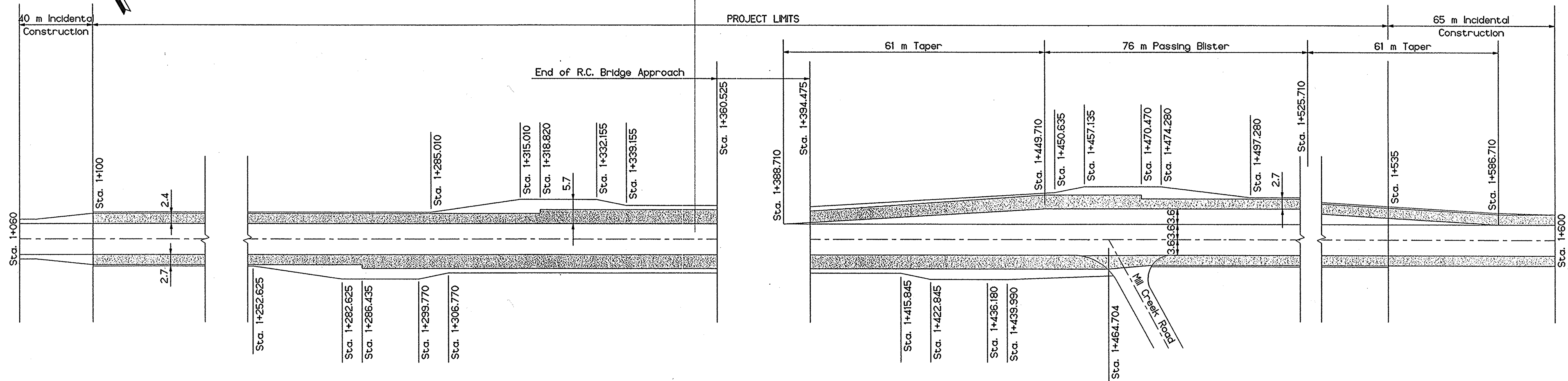
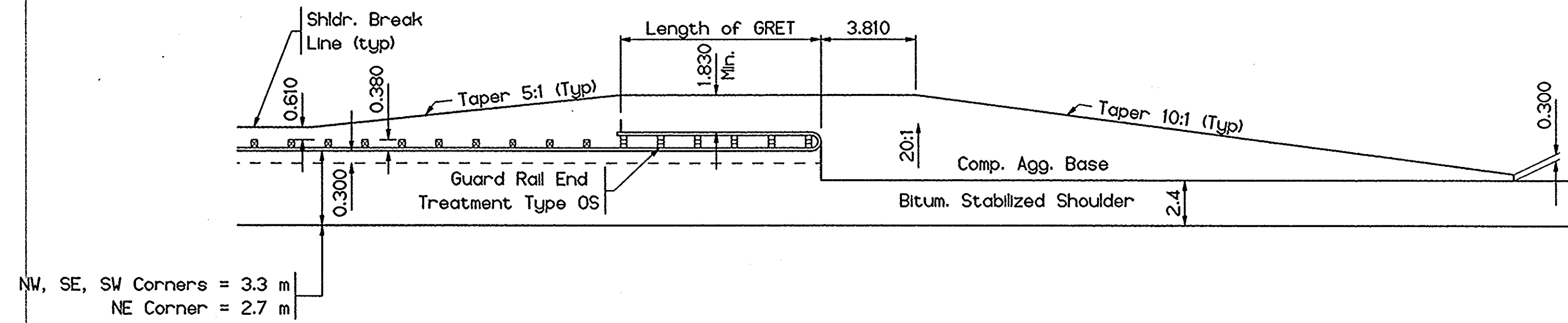
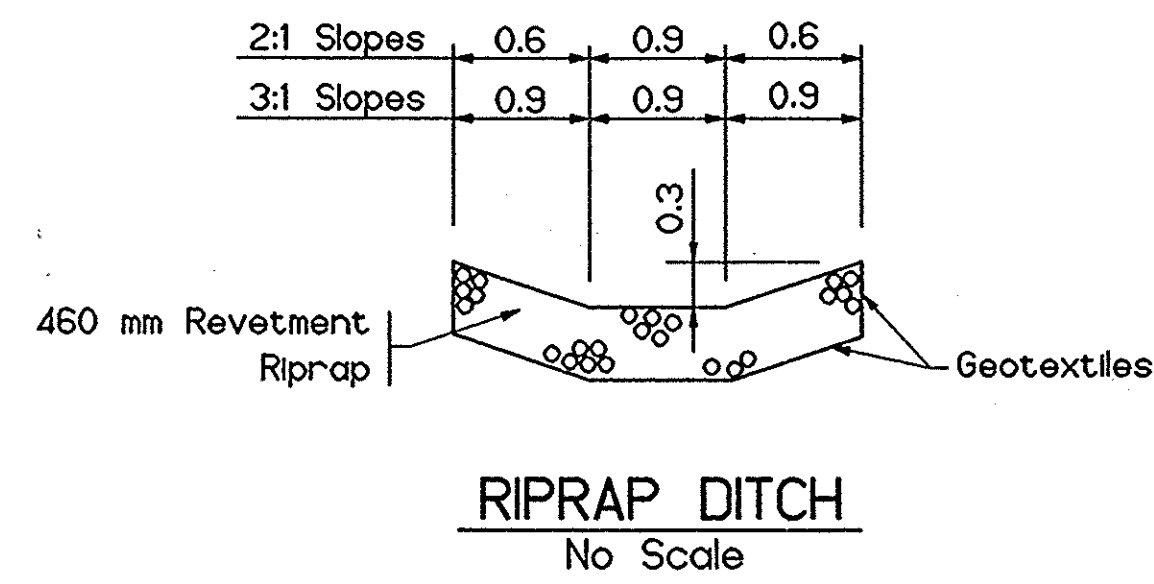
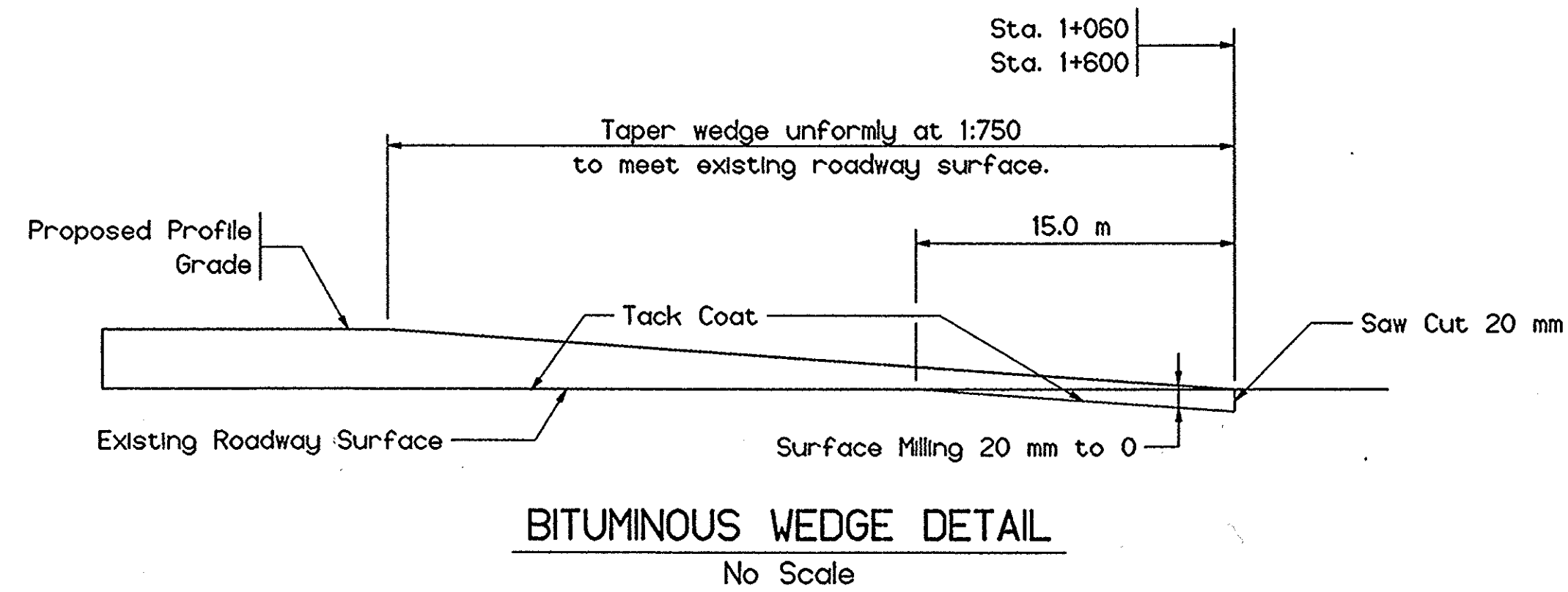
**TYPICAL WEDGE AND LEVEL SECTION**  
Sta. 1+460 to Sta. 1+535

270 kg/m² Bitum. Base 5D, LV on 0.20 m Comp. Agg. Base, Size #53

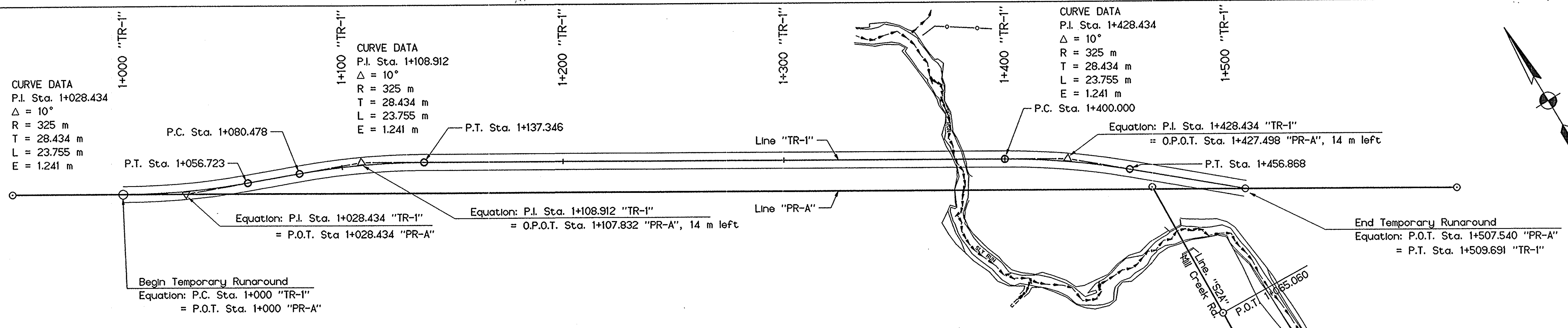


**UNDERDRAIN DETAIL**  
Scale 1:20

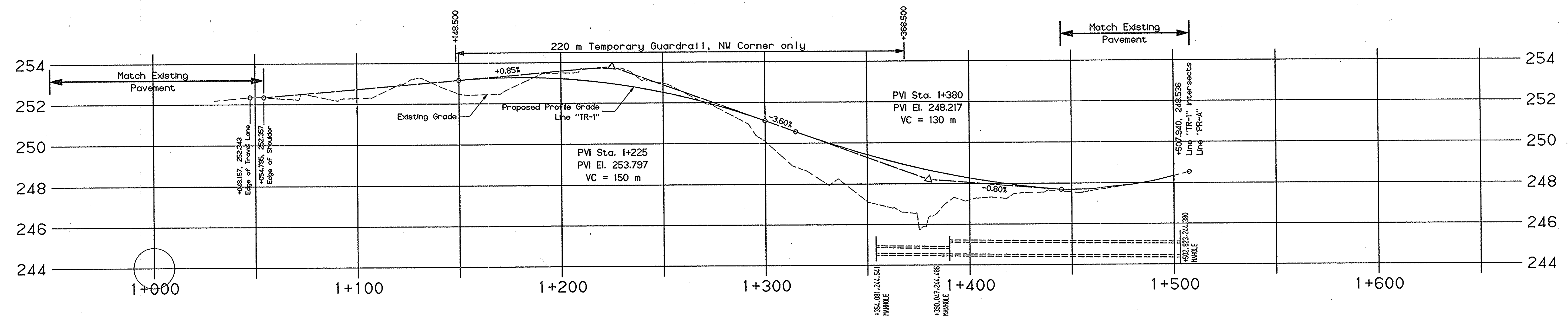
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		SCALE	BRIDGE FILE
				SCALE 1:50	38-29-7852
DESIGNED: STABLER 24APR97 DRAWN: STABLER 24APR97		TYPICAL SECTIONS		UNLESS NOTED	DESIGNATION
					9137360
CHECKED: _____ CHECKED: _____				SURVEY BOOK	SHEETS
				BR-3325	3 of
				CONTRACT	PROJECT
					BRF-5229 ( )



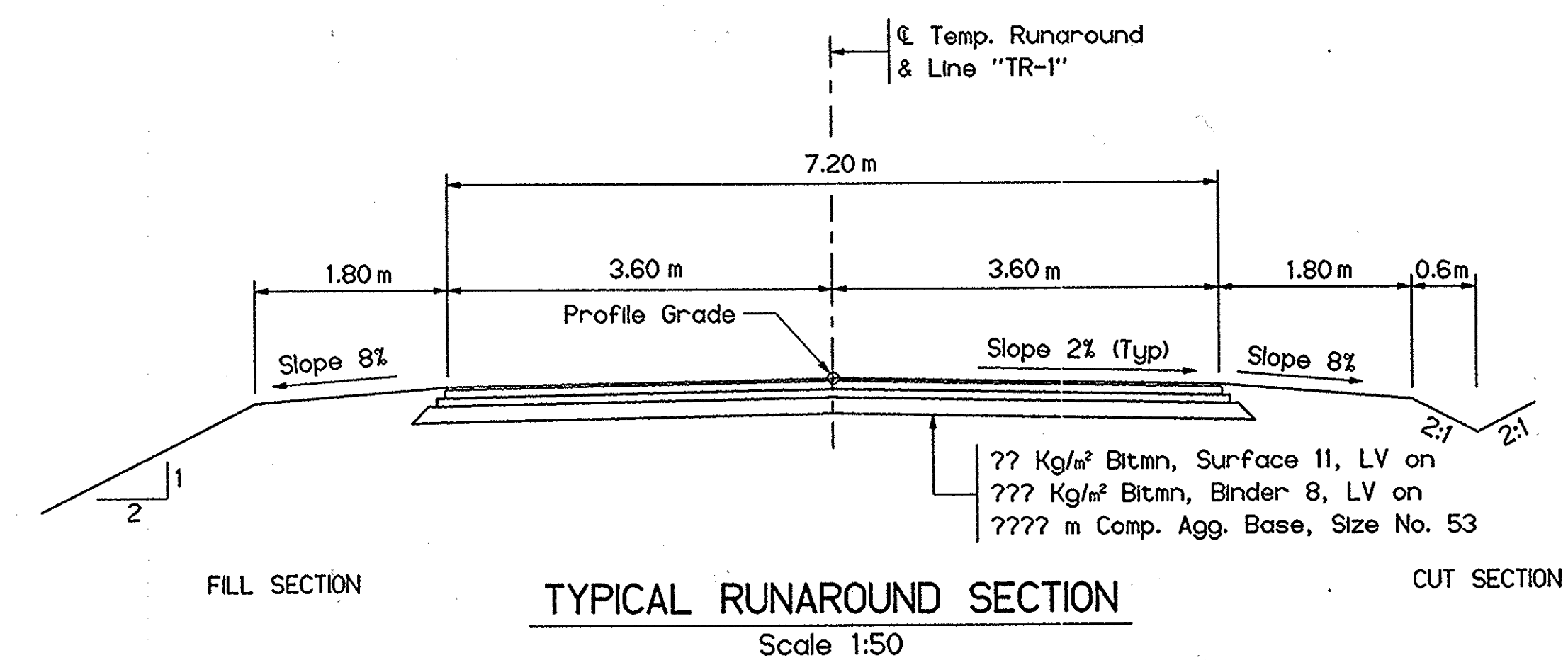
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		SCALE	BRIDGE FILE
				AS NOTED	38-29-7852
DESIGNED: STABLER 24APR97		DRAWN: STABLER 24APR97		DESIGNATION	
CHECKED: _____		CHECKED: _____		9137360	
TYPICAL SECTIONS				SURVEY BOOK	SHEETS
				BR-3325	4 of
				CONTRACT	PROJECT
				BRF-5229 ( )	



HORIZONTAL ALIGNMENT FOR TEMPORARY RUNAROUND



VERTICAL ALIGNMENT FOR TEMPORARY RUNAROUND



**EARTHWORK ESTIMATE FOR TEMPORARY BRIDGE AND APPROACHES**

Fill + 20% = 717 m<sup>3</sup>  
 Cut = 727 m<sup>3</sup>

Cost of Earthwork to be included in the cost of the Temporary Bridge and Approaches.

**TEMPORARY RUNAROUND NOTES**

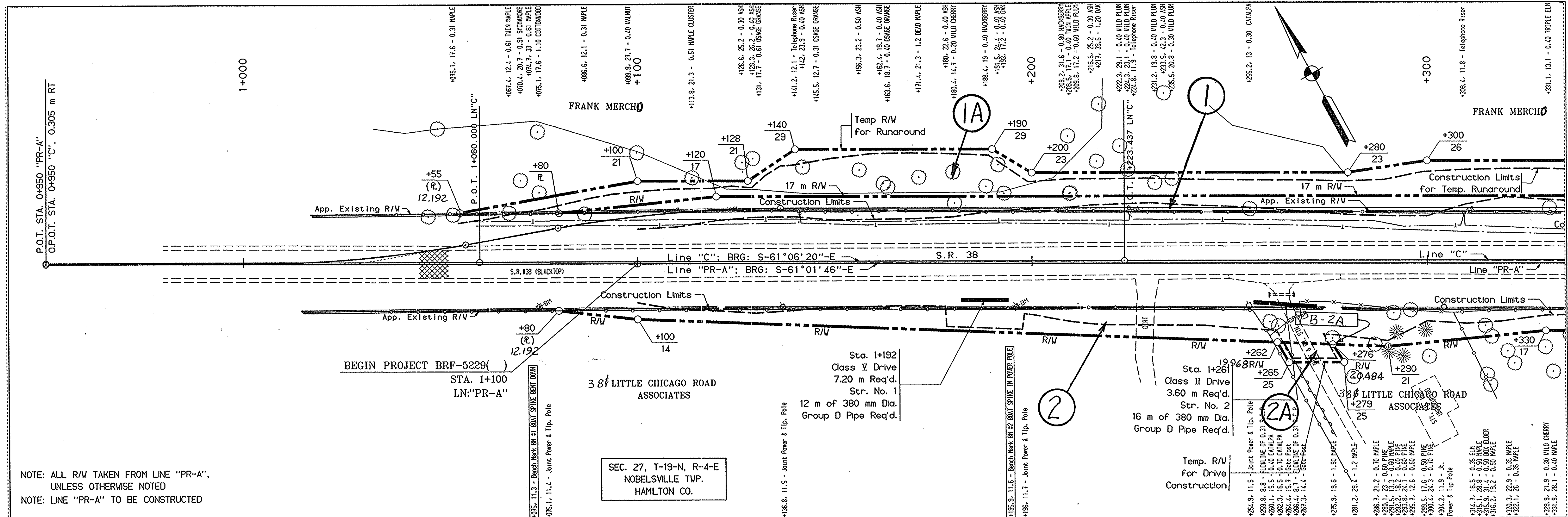
Paved Temporary Runaround Required. See above for Profile Grade. See Std. Shts. 713-TCTR-01 Thru-04 for additional details. Temporary Bridge shall be approximately 17 m. in length with 1½:1 Spallslopes and a 8.50 m. minimum clear roadway width. It shall provide 20.35 m<sup>2</sup>. minimum waterway opening below Elev. 247.740 MSL. NE, SE, and SW corners of the Temporary Bridge shall have 15.25 m. of Temporary Guardrail. NW Corner shall have 220 m of Temporary Guardrail.

QUANTITY SUMMARY FOR TEMPORARY RUNAROUND

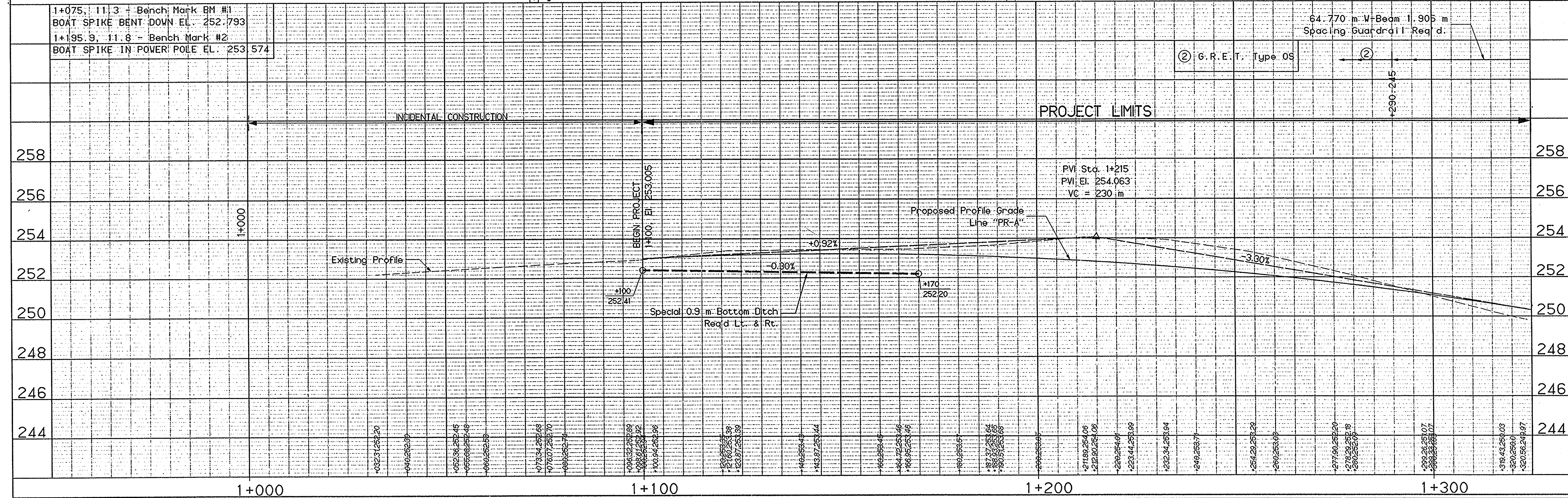
Bituminous Surface 11, LV	717 Mg	Construction Sign, Type A	717 Each
Bituminous Binder 8 or 9, LV	727 Mg	Construction Sign, Type B	727 Each
Bituminous Base 5, LV	737 Mg	Temporary Pavement Marking, Type I, Yellow, 100 mm	737 m.
Compacted Aggregate for Base	747 Mg	Temporary Pavement Marking, Type I, White, 100 mm	747 m.
V-Beam Guardrail for Temporary Bridge Approaches	757 m.	Temporary Pavement Marking, Yellow, 100 mm	757 m.
Guardrail End Treatment Type I for Temporary Bridge Approaches	767 Each	Temporary Pavement Marking, White, 100 mm	767 m.
Standard Barricade, III A	777 Each	Seed Mixture, T, Conventional Mixture	777 Kg.
		Mulching Material	787 Kg.
		Fertilizer	797 Kg.
		Temporary Bridge and Approaches	7107 LSum

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	SCALE	BRIDGE FILE
	DESIGNED: STABLER 12MAY97	DRAWN: STABLER 12MAY97		1:1000	38-29-7852
CHECKED:	CHECKED:		TEMPORARY RUNAROUND DETAILS	1:100	DESIGNATION
					9137360
				SURVEY BOOK	SHEETS
				BR-3325	5 of
				CONTRACT	PROJECT
					BRF-5229 ( )



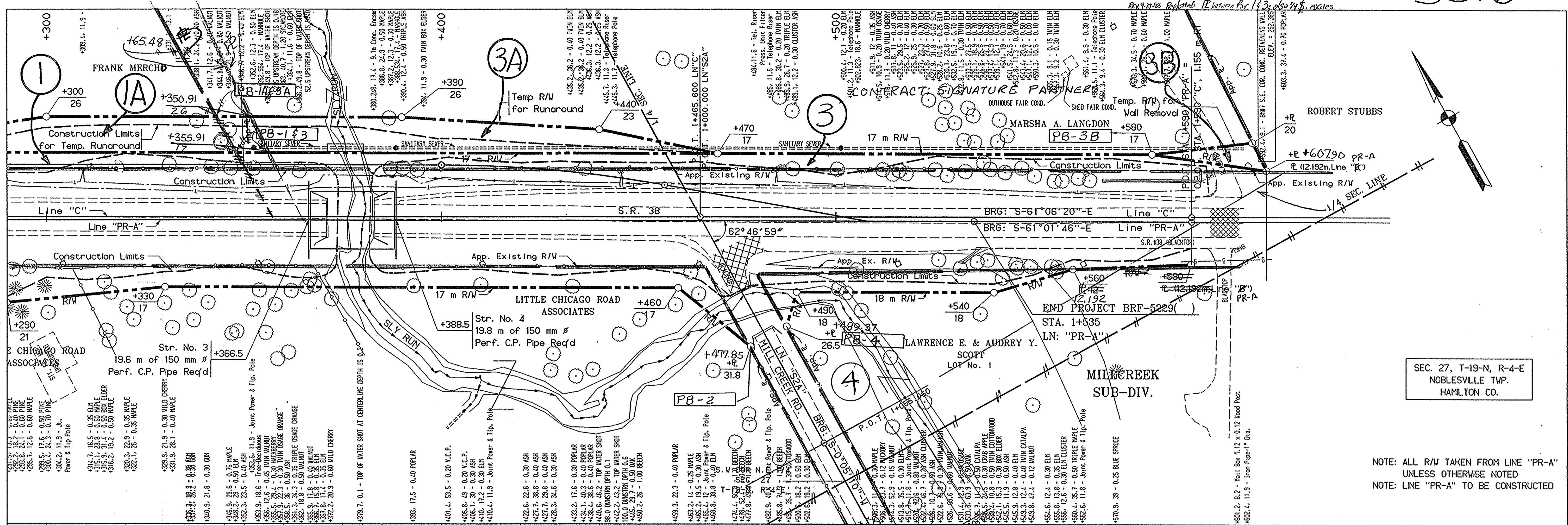


NOTE: ALL R/W TAKEN FROM LINE "PR-A",  
UNLESS OTHERWISE NOTED  
NOTE: LINE "PR-A" TO BE CONSTRUCTED

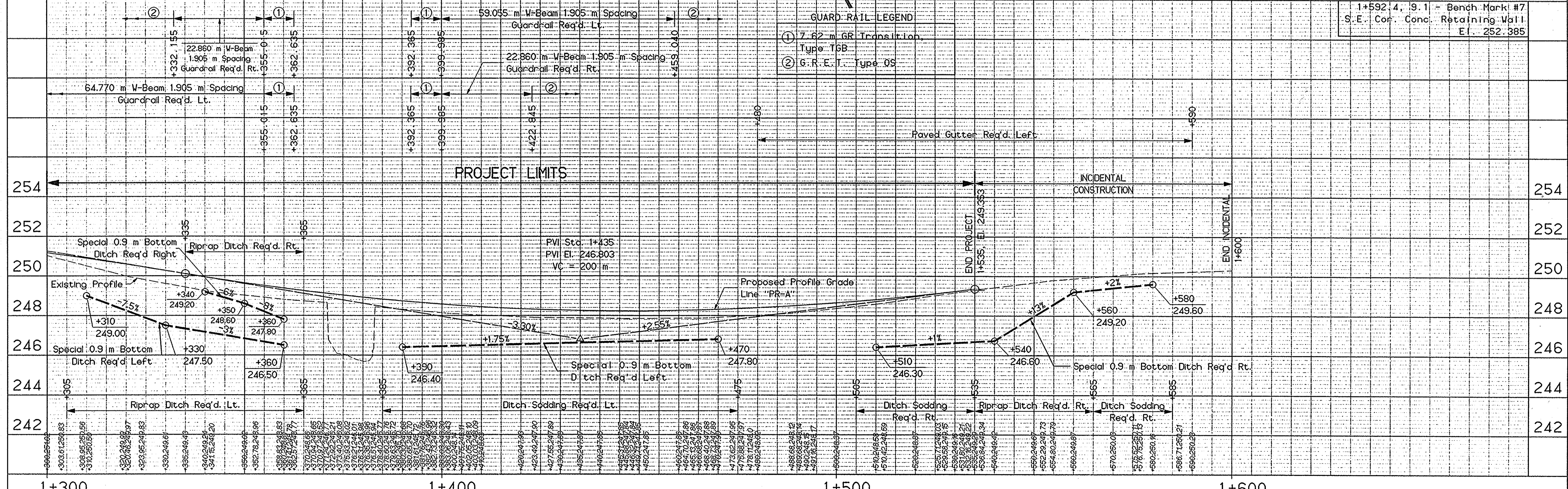


<p>RECOMMENDED FOR APPROVAL _____</p> <p>DESIGNED: STABLER 19MAY97    DRAWN: STABLER 02JUN97</p> <p>CHECKED: _____    CHECKED: _____</p>	<p><b>INDIANA DEPARTMENT OF TRANSPORTATION</b></p> <p><b>PLAN AND PROFILE 1</b></p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>HORIZONTAL SCALE 1:500</td> <td>BRIDGE FILE 38-29-7852</td> </tr> <tr> <td>VERTICAL SCALE 1:100</td> <td>DESIGNATION 9137360</td> </tr> <tr> <td>SURVEY BOOK BR-3325</td> <td>SHEETS 6 of 11</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT BRF-5229 ( )</td> </tr> </table>	HORIZONTAL SCALE 1:500	BRIDGE FILE 38-29-7852	VERTICAL SCALE 1:100	DESIGNATION 9137360	SURVEY BOOK BR-3325	SHEETS 6 of 11	CONTRACT	PROJECT BRF-5229 ( )
HORIZONTAL SCALE 1:500	BRIDGE FILE 38-29-7852									
VERTICAL SCALE 1:100	DESIGNATION 9137360									
SURVEY BOOK BR-3325	SHEETS 6 of 11									
CONTRACT	PROJECT BRF-5229 ( )									





NOTE: ALL R/W TAKEN FROM LINE "PR-A" UNLESS OTHERWISE NOTED  
 NOTE: LINE "PR-A" TO BE CONSTRUCTED



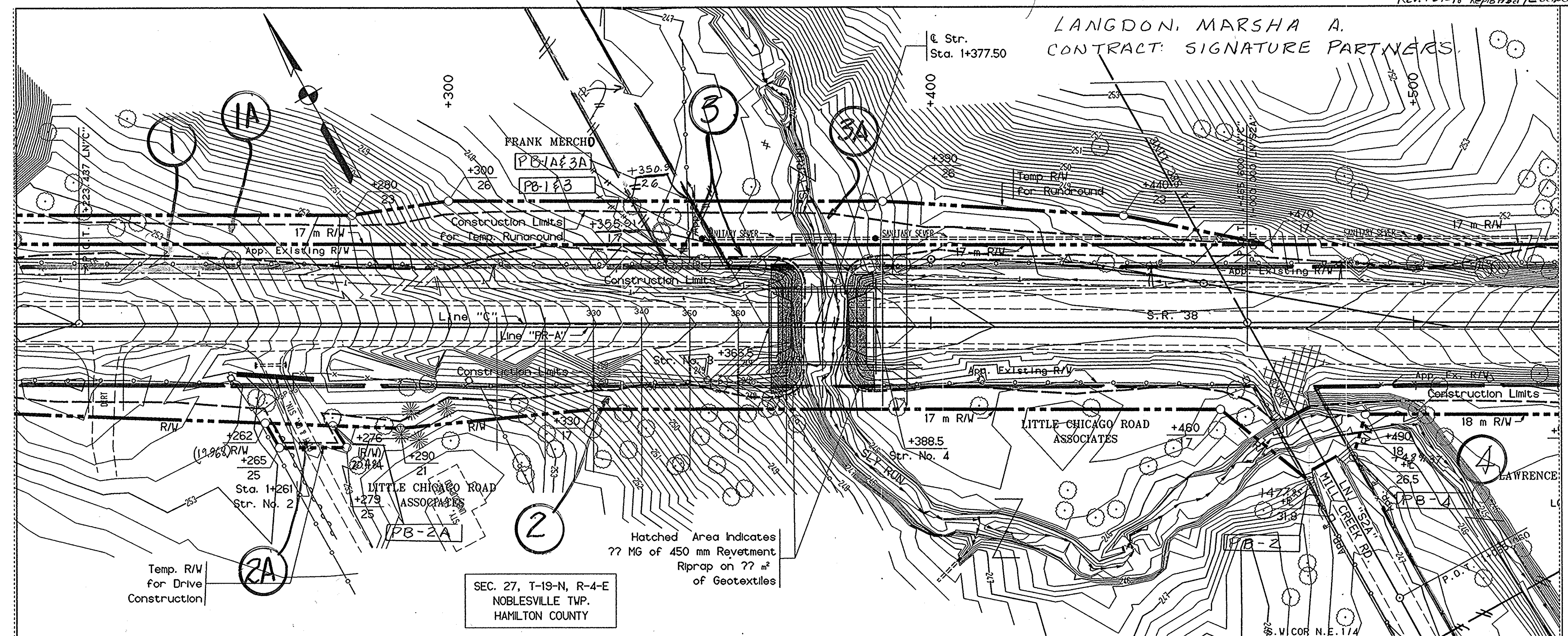
GUARD-RAIL LEGEND

- 7.62 m GR Transil. Lon. Type T6B
- G.R.E.T. Type QS

1+592.4, 9.1 - Bench Mark #7  
 S.E. Cor. Conc. Retaining Wall  
 El. 252.385

		<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p>PLAN AND PROFILE 2</p>		<p>HORIZONTAL SCALE 1:500</p> <p>VERTICAL SCALE 1:100</p>	<p>BRIDGE FILE 38-29-7852</p> <p>DESIGNATION 9137360</p>
<p>RECOMMENDED FOR APPROVAL</p> <p>DESIGNED: STABLER 14APR97</p> <p>CHECKED:</p>	<p>DESIGN ENGINEER</p> <p>DRAWN: STABLER 23APR97</p> <p>CHECKED:</p>	<p>DATE</p>	<p>CONTRACT</p>	<p>SURVEY BOOK BR-3325</p> <p>SHEETS 7 of 11</p> <p>PROJECT BRF-5229 ( )</p>	<p>BRIDGE FILE 38-29-7852</p> <p>DESIGNATION 9137360</p> <p>SHEETS 7 of 11</p> <p>PROJECT BRF-5229 ( )</p>





LANGDON, MARSHA A.  
CONTRACT SIGNATURE PARTNERS

**PUBLIC UTILITIES**

- Electric: P.S.I. Energy  
1000 E. Main Street  
Plainfield, IN 46168
- Telephone: Ameritech  
5870 N. College Ave.  
Indianapolis, IN 46220
- Cable: Insite Cablevision  
15229 Stoney Creek Way  
Noblesville, IN 46220
- Gas: Indiana Gas Company  
1630 N. Meridian Street  
Indianapolis, IN 46202
- Water: No water lines within Survey Limits.
- Sewer: City of Noblesville

**PRESENT STRUCTURE**

The present structure was built by the Indiana State Highway Commission in 1964 as a Prestressed Concrete I-Beam Bridge set on old concrete abutments and extended out on wood beams. One span = 12.065 m  
Skew = 0°; SQUARE  
Clear Roadway Width = 9.754 m

**HYDRAULIC DATA**

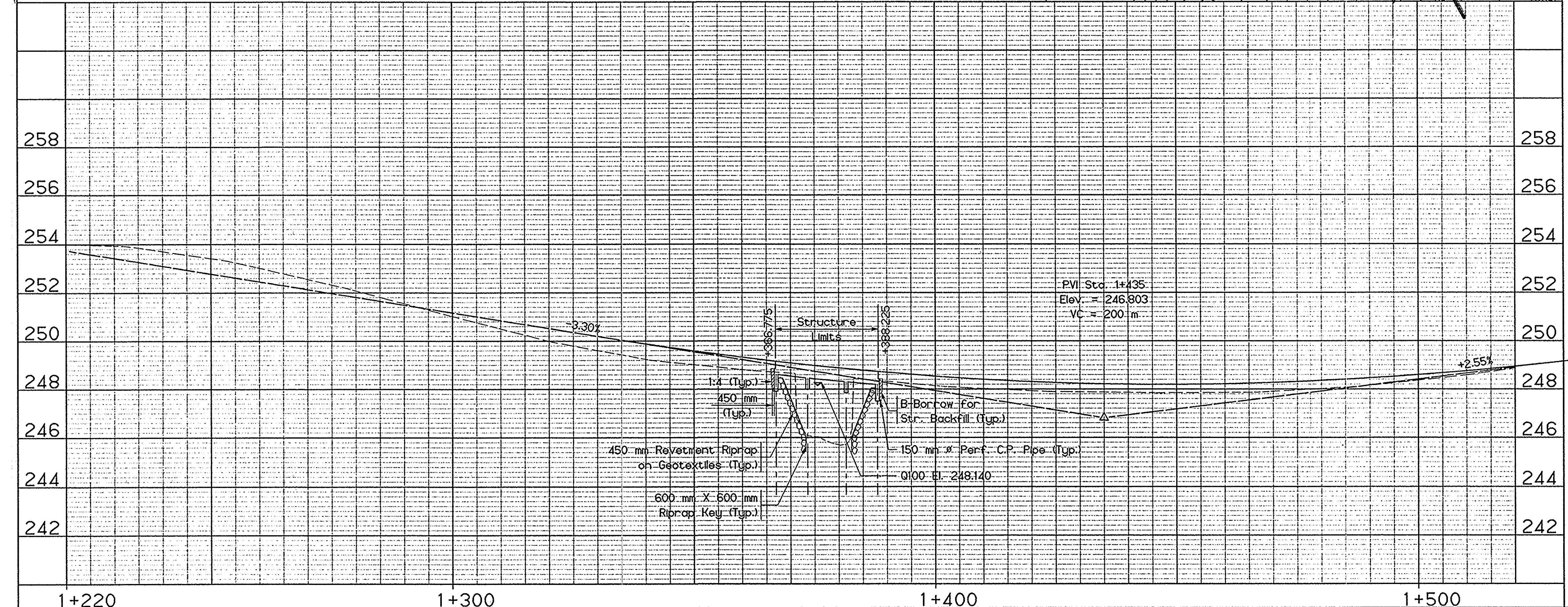
Waterway Opening Required	31.77 Sq. m.
Waterway Opening Provided	31.77 Sq. m.
Drainage Area	9.53 Sq. Km.
Design Discharge, Q100	53.80 Cms.
Velocity	1.69 Mps.
Q100 Elev.	248.14 MSL
Estimated Scour Elev.	243.11 MSL
Backwater at Q100	0.00 m.
Existing Waterway Opening	20.90 Sq. m.
Existing Backwater	0.00 m.
Low Structure Elev.	248.249 MSL
Existing Low Structure Elev.	247.760 MSL

**EARTHWORK TABULATION**

Fill + 20%	717 m³
Common Excavation	727 m³
Usable Waterway Excavation (???)	737 m³
Surplus Foundation Excavation	747 m³
Borrow (or Waste)	757 m³
Total Waterway Excavation	717 m³
± Benching (Estimated)	727 m³

± No direct payment. Benching will not be paid for as Common Excavation.

CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE  
3 SPANS: 6.5 m, 8.0 m, 6.5 m; SQUARE; 13.6 m CL. RDVY.  
OVER SLY RUN ON S.R. 38 IN HAMILTON COUNTY



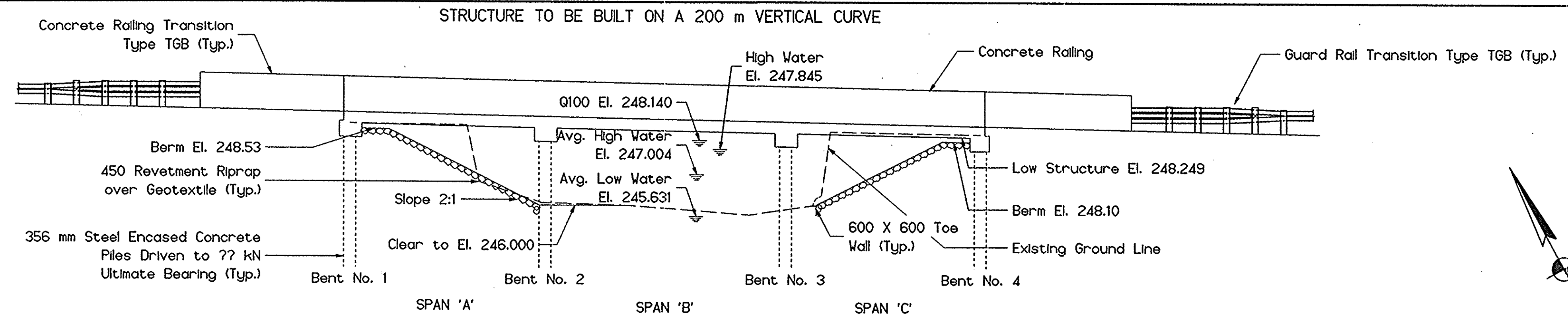
NOTE: Contour Interval: Major = 1 m  
Minor = 0.2 m

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: STABLER 12MAY97	DRAWN: STABLER 12MAY97	
CHECKED:	CHECKED:	

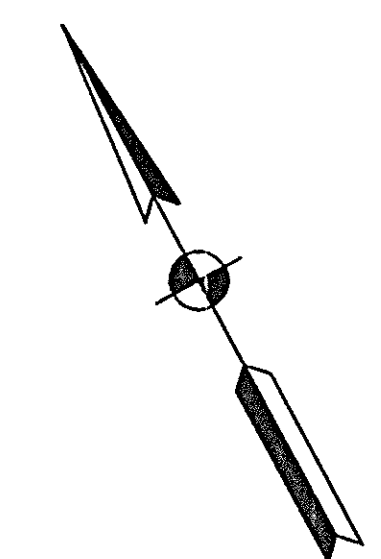
INDIANA DEPARTMENT OF TRANSPORTATION  
**LAYOUT**

HORIZONTAL SCALE	BRIDGE FILE
1:500	38-29-7852
VERTICAL SCALE	DESIGNATION
1:100	9137360
SURVEY BOOK	SHEETS
BR-3325	8 of 11
CONTRACT	PROJECT
	BRF-5229 ( )





ELEVATION



DESIGN DATA

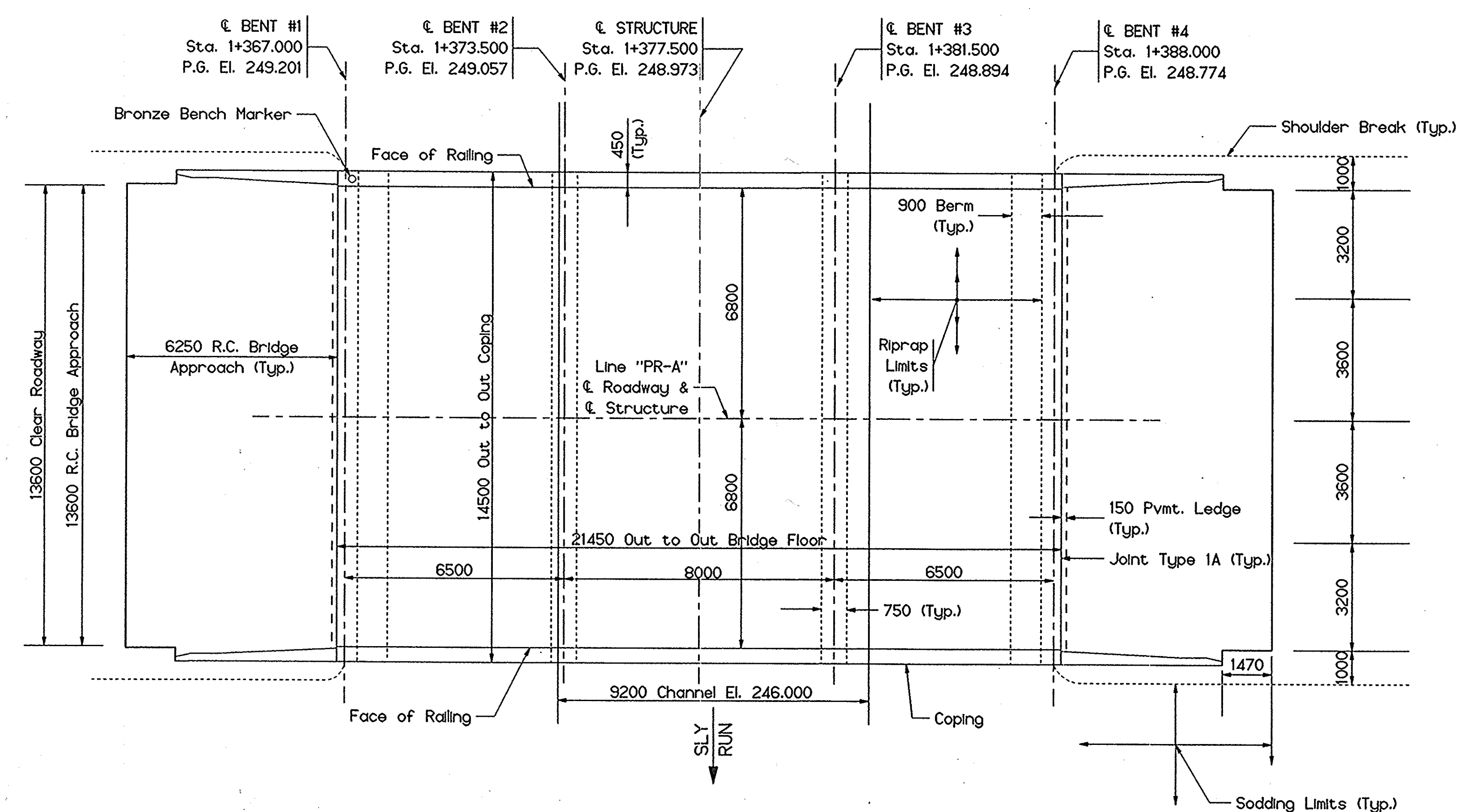
Design Strengths for Load Factor Design  
 $f_y = 420 \text{ MPa}$   $f'_c = 28 \text{ MPa}$

LIVE LOAD: Designed for HS20-44 loading in accordance with 1996 AASHTO Specifications and subsequent Interim A.A.S.H.T.O. Specifications.

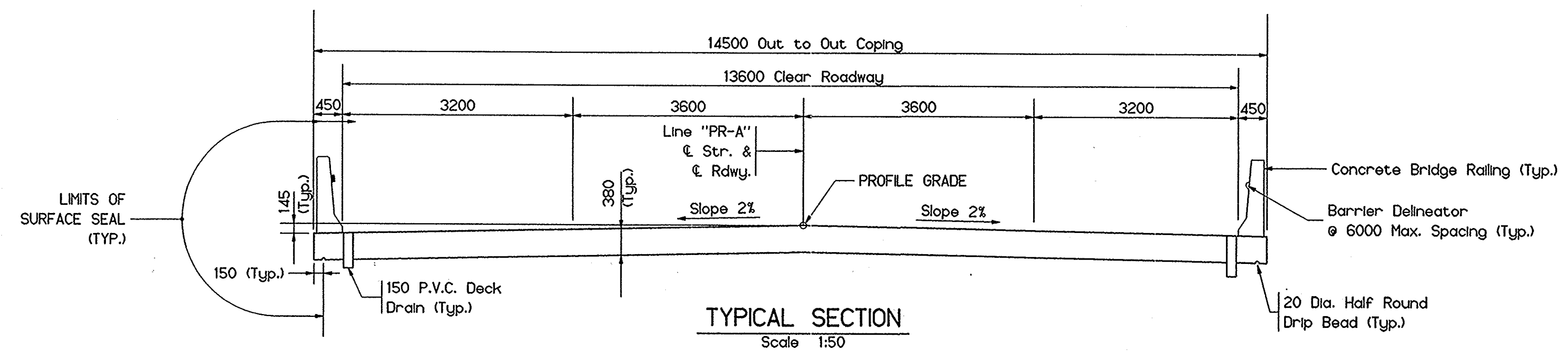
DEAD LOAD: Increased 170 kg/m<sup>2</sup> for future wearing surface. Slab designed with a 380 mm structural depth plus a 40 mm wearing surface.

NOTES:

Reinforcing bars designated "E" shall be epoxy coated. For reinforcing bar notes, see STD. SHT. 703-BRST-01. For additional details and Bill of Materials, see Sht. ??



PLAN



TYPICAL SECTION  
 Scale 1:50

CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE  
 3 SPANS: 6.500 m, 8.000 m, 6.500 m; SQUARE;  
 13.600 m CLEAR ROADWAY; OVER SLY RUN CREEK  
 ON SR 38, HAMILTON COUNTY

All dimensions are in millimeters (mm) and all elevations are in meters (m), except as noted.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: STABLER 14APR97	DRAWN: STABLER 14APR97	
CHECKED:	CHECKED:	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

SCALE	BRIDGE FILE
SCALE 1:100	38-29-7852
UNLESS NOTED	DESIGNATION
	9137360
SURVEY BOOK	SHEETS
BR-3325	9 of 1
CONTRACT	PROJECT
	BRF-5229 ( )



### SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE			CONCRETE RAILING CLASS C	REINF. STEEL	EPOXY COATED REINF. STEEL	STRUCT. STEEL	ANCHOR PLATES MK-AP	PILES						CAST IRON DRAIN PIPE	CAST IRON GRATES, BASINS, & FITTINGS	EXP. JOINT TYPE	EXP. JOINT CLASS	CONC. STR. MEMBERS		BARRIER DELINEATORS	SURFACE SEAL **		
	CLASS C	CLASS A	CLASS B						CONC. STEEL SHELL ENCASED	REIN. CONC. STEEL SHELL ENCASED	STEEL H	STEEL H EPOXY COATED	STEEL H REIN. CONC. ENCASED	PILE TIP STEEL H					CORED HOLES IN ROCK	BOX BEAMS TYPE			I BEAM TYPE	
	SUPERSTR	SUBSTR	FOOTING																					NO.
	m²	m²	m²	m	m	kg	kg	kg	EACH	NO.	m	NO.	m	NO.	m	EACH	NO.	m	kg	kg	m	m	EACH	m²
REINF. STEEL FOR BR. APPR. CONC. RAILING ON BR. APPROACH TOTALS																								** ESTIMATED QUANTITY

### PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADI	SURFACE BEYOND R/W LINE			GRADE	EXCAVATION		CLEAR ZONE AT DRIVE	BITUMINOUS MIXTURE FOR APPROACHES							BITUMINOUS MATERIAL FOR ROADS							COMPACTED AGGREGATE FOR BASE NO. 53				COMPACTED AGGREGATE FOR SURFACE NO. 73		REMARKS
					COMPACTED AGGREGATE	BITUMIN.	CONCRETE		CUT	FILL		SURFACE	BINDER	BASE	BASE	BASE	BASE	BASE	BASE	BASE	BASE	BASE	BASE	DEPTH	DEPTH							
					m²	m²	m²		m²	m²		Mg	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²						
					kg/m²												kg/m²							m²				m²				
1+192 "PR-A"	Class V	7.20																														
1+261 "PR-A"	Class II	3.60																														
1+465.55 "PR-A"	Public Rd. App.	6.00																														
TOTALS																																

### STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	STATION	LEFT	RIGHT	CROSS	SIZE	GROUP	DESCRIPTION		FLOW LINE		BACKFILL METHOD	"B" BORROW FOR STR. BACKFILL	THICKNESS		VELOCITY	REVETMENT	CONCRETE CLASS "A"	PIPE END SECTION	GRATED BOX END SECTION	CONNECT TO STR.	REMARKS
								SEE STD. SHEETS 715-PSDR-01, -02 & -3, 715-PSSS-01 & -02	LENGTH	UP STREAM	DOWN STREAM			STEEL #	ALUM. *							
								LENGTH	SHEW COVER	ELEV.	ELEV.			m	mm							
1	1+192 "PR-A"	X				0.380	D															
2	1+261 "PR-A"	X				0.380	D															
3	1+366.5 "PR-A"	X				0.150																
4	1+388.5 "PR-A"	X				0.150																

\* IF CONTRACTOR ELECTS TO USE METAL PIPE, THICKNESS AS SHOWN BELOW ARE TO BE USED.

### UNDERDRAIN TABLE

STATION	150 mm GROUP "K" PIPE	AGGREGATE FOR UNDERDRAINS	GEOTEXTILES	AT STATION	OUTLET										REMARKS
					ELBOWS		WYE		TEES		SODDING	DELINATOR POST	OUTLET THRU SHOULDER CONNECT TO STR. NO.	CONNECT TO UNDERDRAIN	
					45°	90°	150 mm	200 mm	150 mm	150 mm					
TOTALS					ELBOWS, TEE & WYE EQUIVALENT										

### PAVED SIDE DITCH, RIPRAP DITCH AND SODDING SUMMARY TABLE

LOCATION		PAVED SIDE DITCH				RIPRAP DITCH			SODDING				NURSERY SODDING FOR LAWN				
FROM STATION	TO STATION	LEFT MEDIAN	RIGHT	TOTAL EQUIVALENT PAY LENGTHS				REVETMENT RIPRAP	UNIFORM RIPRAP	GEOTEXTILES	FOR PAVED SIDE DITCHES	FOR DITCHES		FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING
				ACTUAL LENGTH	CUT OFF WALLS (2.5 m EQUIV. LENGTH EACH)	LOGS (2.5 m EQUIV. LENGTH EACH)	m										
1+305	1+365	X						134		218							
1+385	1+475	X											261				
1+505	1+535	X											87				
1+535	1+565	X						67		110							
1+565	1+585	X											58				
TOTALS																	

### REVISIONS

DATE	ITEM

### MAILBOX APPROACHES

LT/RT	C BOX STATION	DESCRIPTION	WIDTH V.(m)	ASSEMBLY REQ'D SINGLE DOUBLE
TOTAL				

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DESIGN ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED: \_\_\_\_\_ DRAWN: \_\_\_\_\_

CHECKED: \_\_\_\_\_ CHECKED: \_\_\_\_\_

INDIANA  
DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY OF QUANTITIES

BRIDGE FILE 38-29-7852  
DESIGNATION 9137360

SURVEY BOOK BR-3325  
CONTRACT

SHEETS 10 of 10  
PROJECT PROJECT  
BRF-5229 ( )