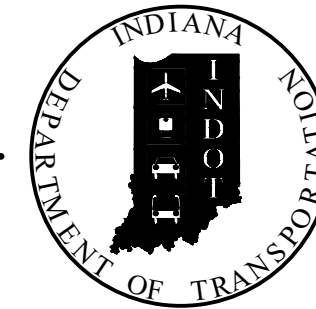


PROJECT	DESIGNATION
1800276	1801015
CONTRACT	BRIDGE FILE
B-41445	CV 250-036-09.30

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
CV 250-036-09.30	PRECAST REINFORCED CONCRETE BOX	SINGLE SPAN 14'-0" SKEW: 45° Lt.	UNNAMED TRIBUTARY TO RIDER DITCH	@ STRUCTURE STA. 103+10.00 "A"

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
1800276	Bridge Replacement for Structure 250-36-06490C (Lead)
1800265	Bridge Rehabilitation for Structure 039-88-06207A
1800266	Bridge Rehabilitation for Structure 039-36-06061A
1801014	Small Structure Replacement for Structure CV 031-036-44.30
1801015	Small Structure Replacement for Structure CV 250-036-09.30
1802992	Small Structure Replacement for Structure CV 250-036-03.40

# INDIANA DEPARTMENT OF TRANSPORTATION



## ROAD PLANS

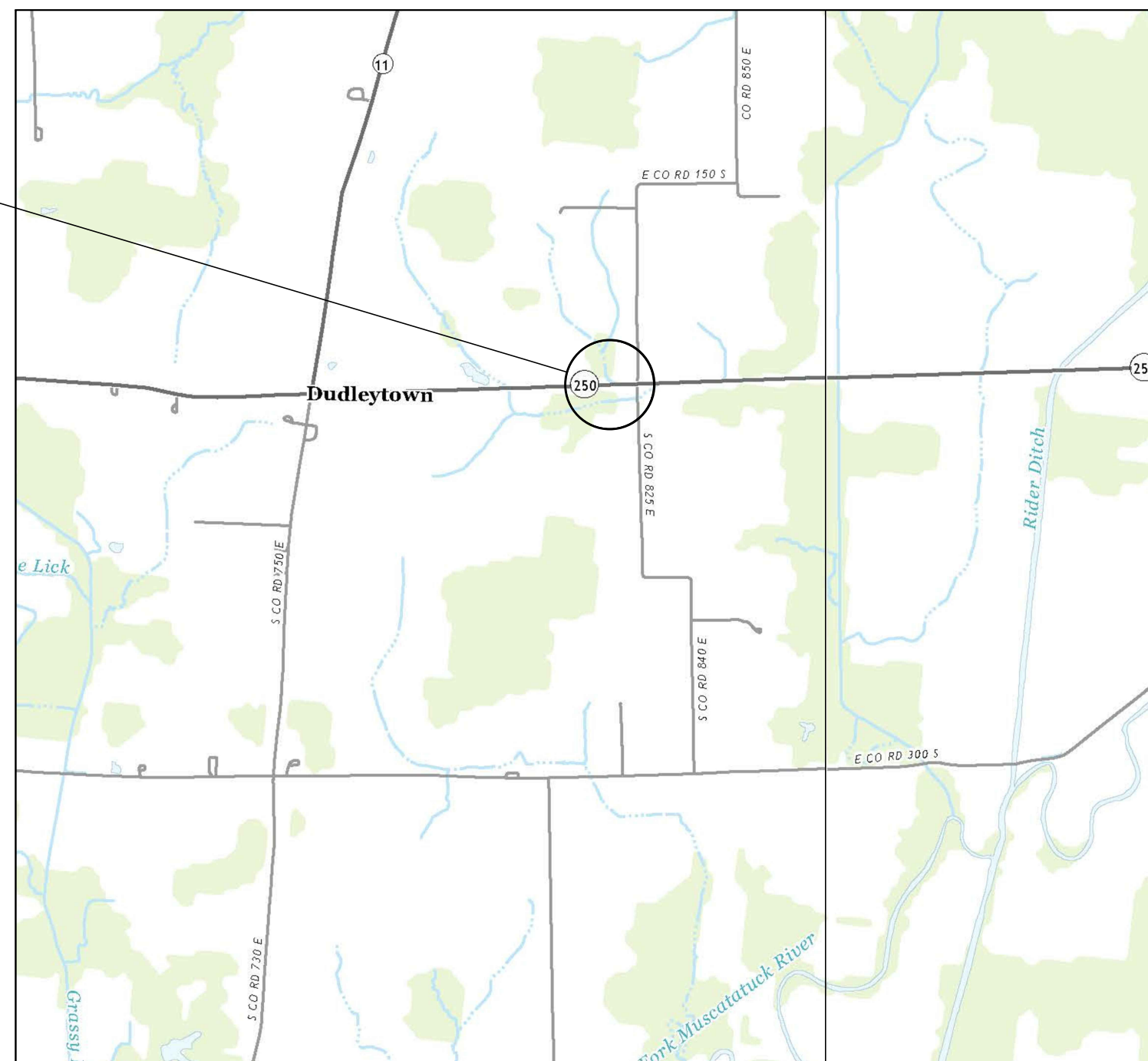
### SMALL STRUCTURE REPLACEMENT

ROUTE: SR 250 OVER UNNAMED TRIBUTARY TO RIDER DITCH AT: RP 9+30

PROJECT NO. 1801015 P.E.  
1801015 R/W  
1801015 CONST.

Small Structure Replacement on SR 250 over Unnamed Tributary to Rider Ditch  
Located 0.79 Miles East of SR 11 in  
Sections 20 and 29, T-5-N, R-6-E, Washington Township, Jackson County, Indiana

PROJECT LOCATION  
Begin Project-Sta.102+00.00 "A"  
End Project-Sta.104+20.00 "A"



LOCATION MAP  
SCALE: 1:24000

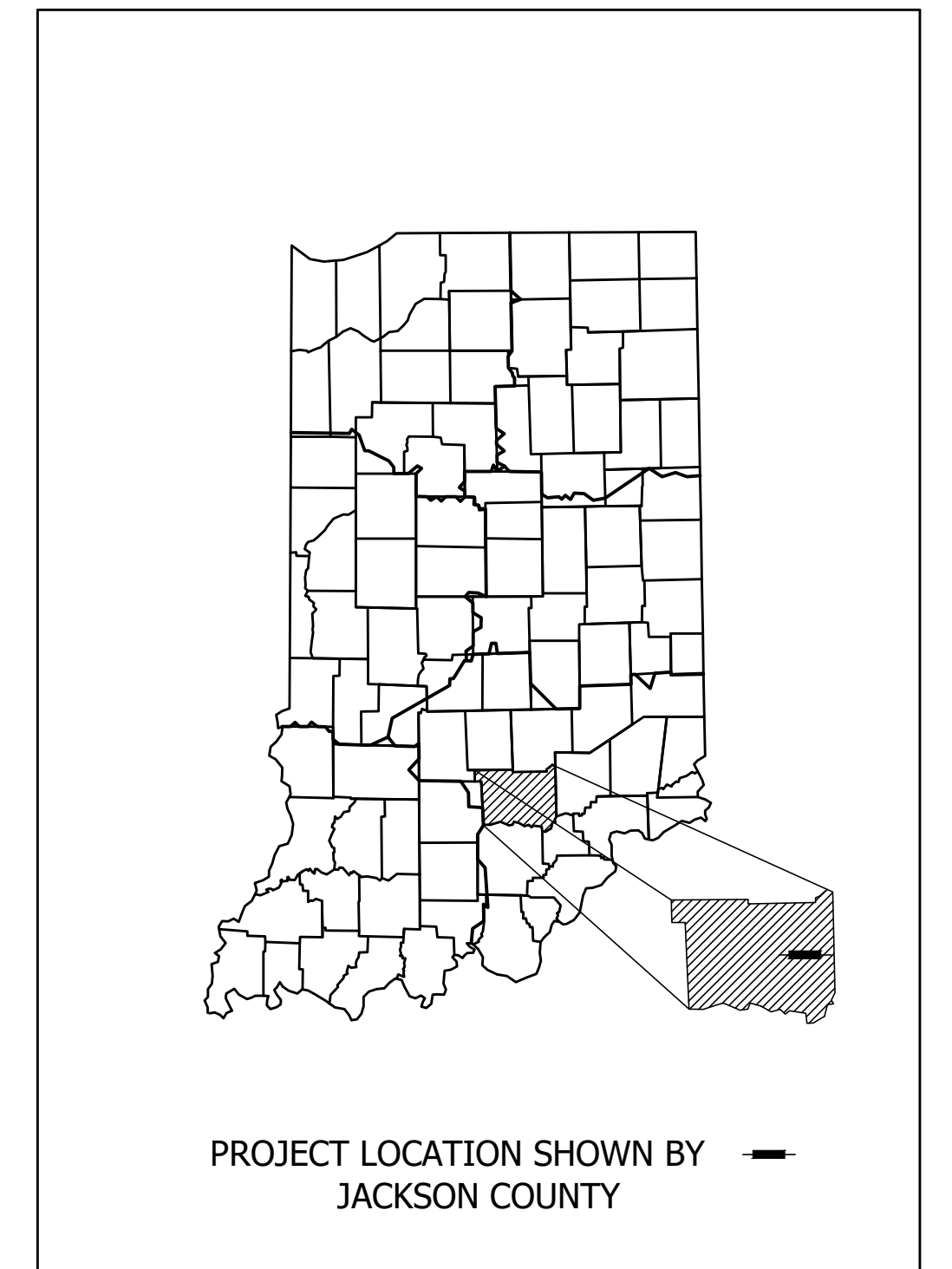


#### TRAFFIC DATA

A.A.D.T. (2022)	1084	V.P.D.
A.A.D.T. (2042)	1318	V.P.D.
D.H.V (2042)	150	V.P.H.
DIRECTIONAL DISTRIBUTION	45.77	%
TRUCKS	16.72	% A.A.D.T.
	10.87	% D.H.V.

#### DESIGN DATA

DESIGN SPEED	55	M.P.H.
PROJECT DESIGN CRITERIA	3R	(NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MAJOR	COLLECTOR
RURAL/URBAN		RURAL
TERRAIN		LEVEL
ACCESS CONTROL		NONE



LATITUDE: 38°51'05.00" N LONGITUDE: 85°53'05.70" W

BRIDGE LENGTH:	0.00	MI.
ROADWAY LENGTH:	0.072	MI.
TOTAL LENGTH:	0.072	MI.
MAX. GRADE:	0.94	%

HUC 12: 051202070704  
HUC 14: 05120207090010

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2022  
TO BE USED WITH THESE PLANS.

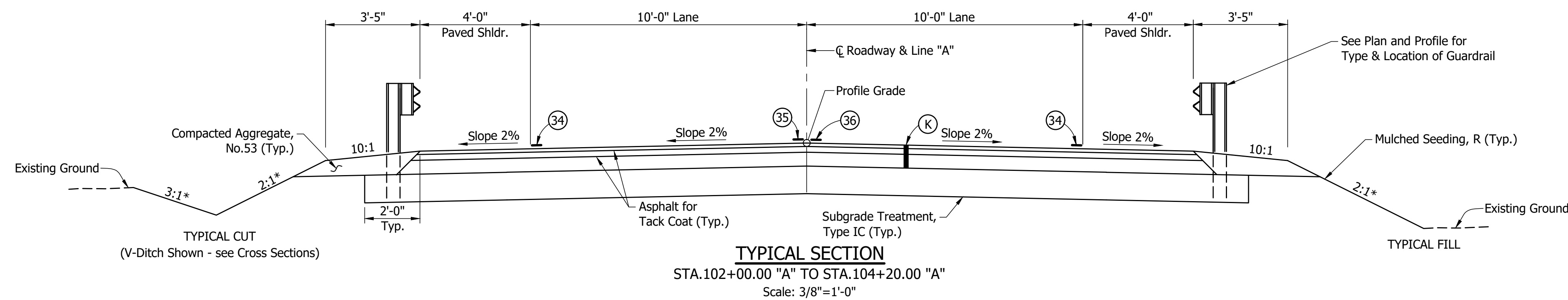
PLANS PREPARED BY:



PLANS PREPARED BY: BEAM, LONGEST & NEFF, LLC (317)849-5832 PHONE NUMBER  
CERTIFIED BY: \_\_\_\_\_ DATE  
APPROVED FOR LETTING: \_\_\_\_\_ INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE	
CV 250-036-09.30	
DESIGNATION	
1801015	
DRAWING NO.	SHEETS
	1 of 20
CONTRACT	PROJECT
B-41445	1800276

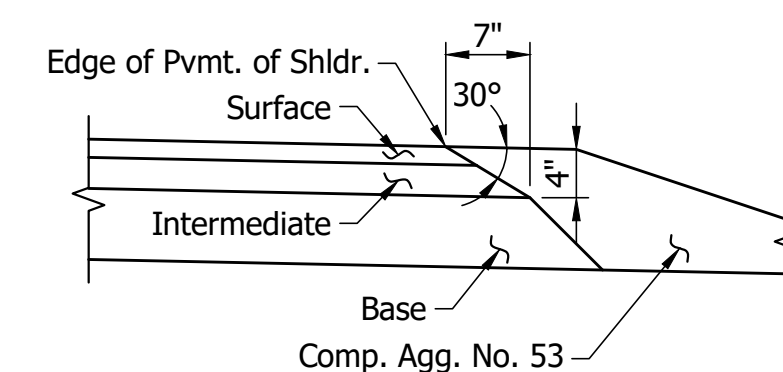
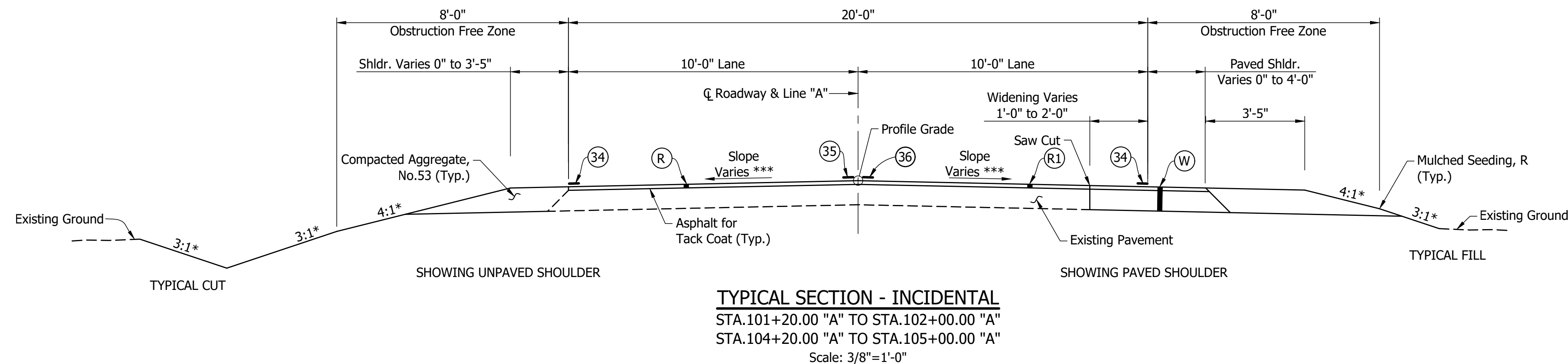




**LEGEND**

- (K) 165#/Syd QC/QA-HMA, 3, 64, Surface, 9.5 mm on  
275#/Syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on  
660#/Syd QC/QA-HMA, 2, 64, Base, 25.0 mm
- (W) Widening with HMA, Type C  
165#/Syd QC/QA-HMA, 3, 64, Surface, 9.5 mm on  
275#/Syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on  
660#/Syd QC/QA-HMA, 2, 64, Base, 25.0 mm
- (R) Milling Asphalt 1 1/2 in. and  
165#/Syd QC/QA-HMA, 3, 64, Surface, 9.5 mm
- (R1) Transition Milling. and  
165#/Syd QC/QA-HMA, 3, 64, Surface, 9.5 mm  
275#/Syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on
- (34) Line, Paint, Solid, White, 4"
- (35) Line, Paint, Solid, Yellow, 4"
- (36) Line, Paint, Broken, Yellow, 4"

**NOTE TO REVIEWER:**  
 This pavement design is preliminary and based on similar projects. A final pavement design will be performed.



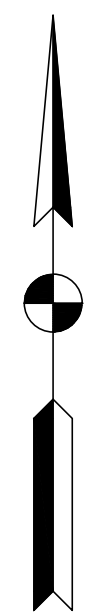
- Notes:
- The pavement safety edge is not required in locations of guardrail; however, the Contractor has the option to construct the pavement safety edge within these limits if it chooses.
  - \* See Cross Sections for Slopes
  - \*\* Safety Edge (30°) applicable to Surface and Intermediate layers only.
  - \*\*\* Taper 2% to Match Existing

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: AJC _____	DRAWN: MEN _____	
CHECKED: SJM _____	CHECKED: AJC _____	

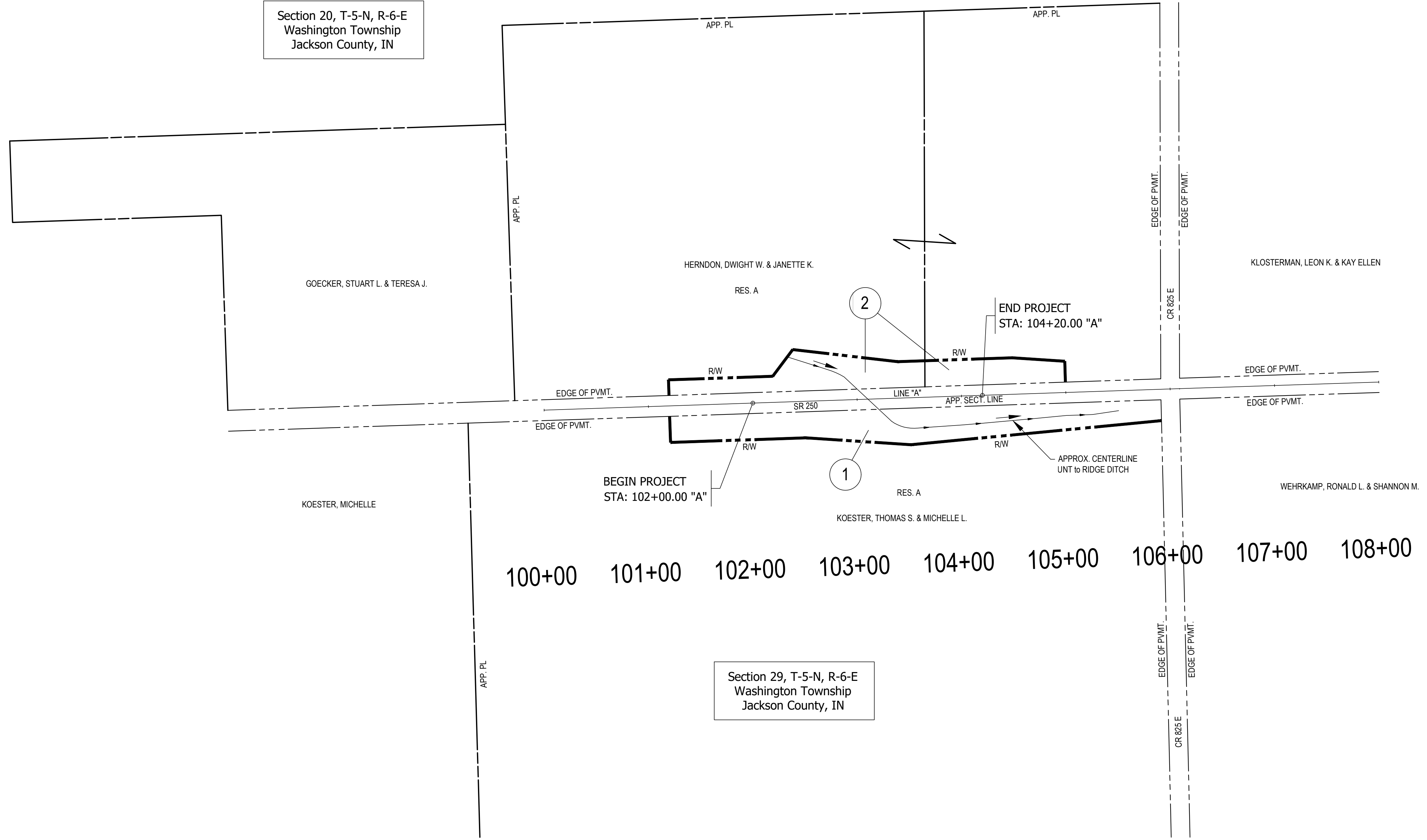
INDIANA  
 DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	CV 250-036-09.30
VERTICAL SCALE	DESIGNATION
AS NOTED	1801015
DRAWING NO.	SHEETS
	3 of 20
CONTRACT	PROJECT
B-41445	1800276



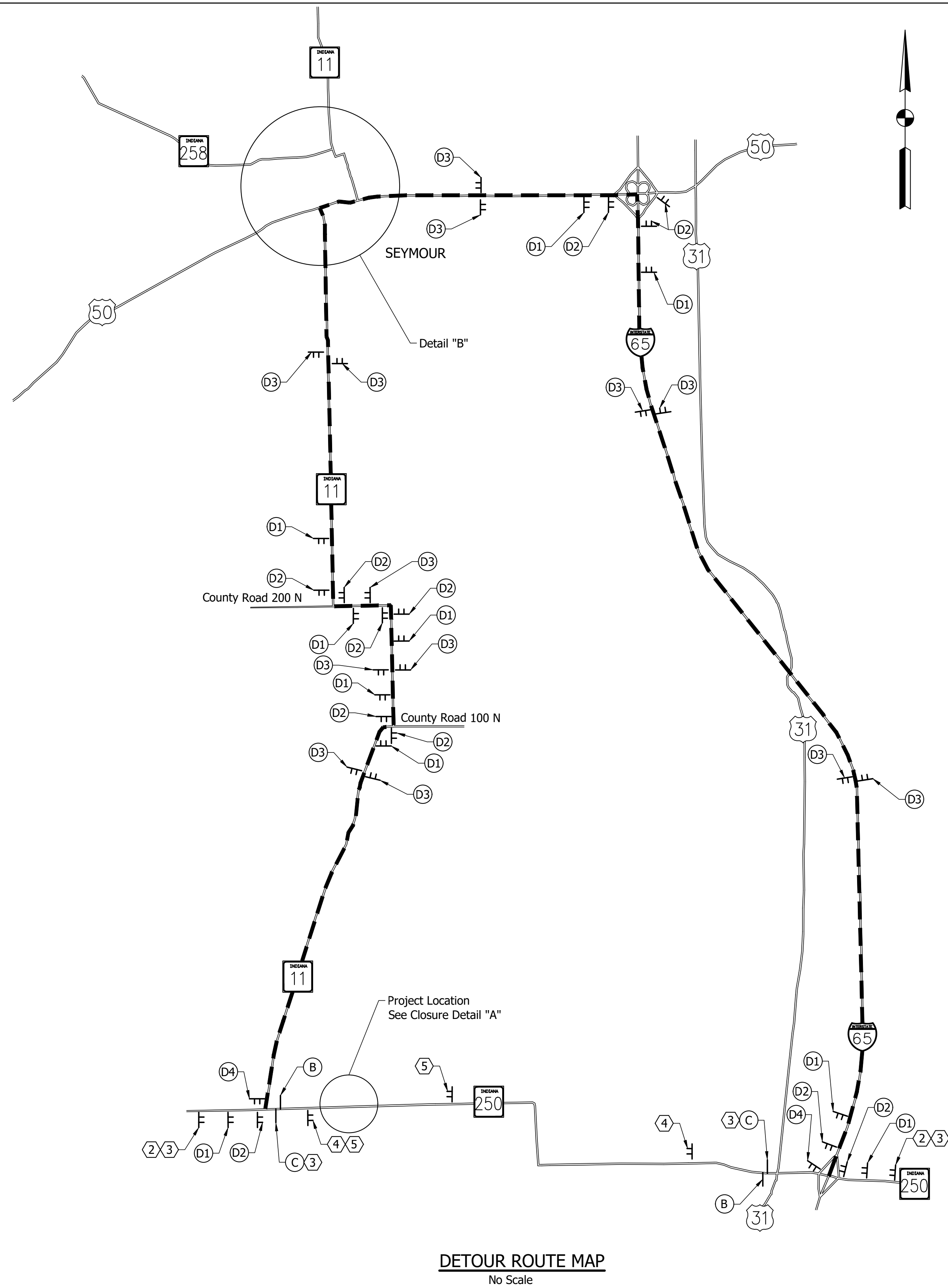
Section 20, T-5-N, R-6-E  
Washington Township  
Jackson County, IN



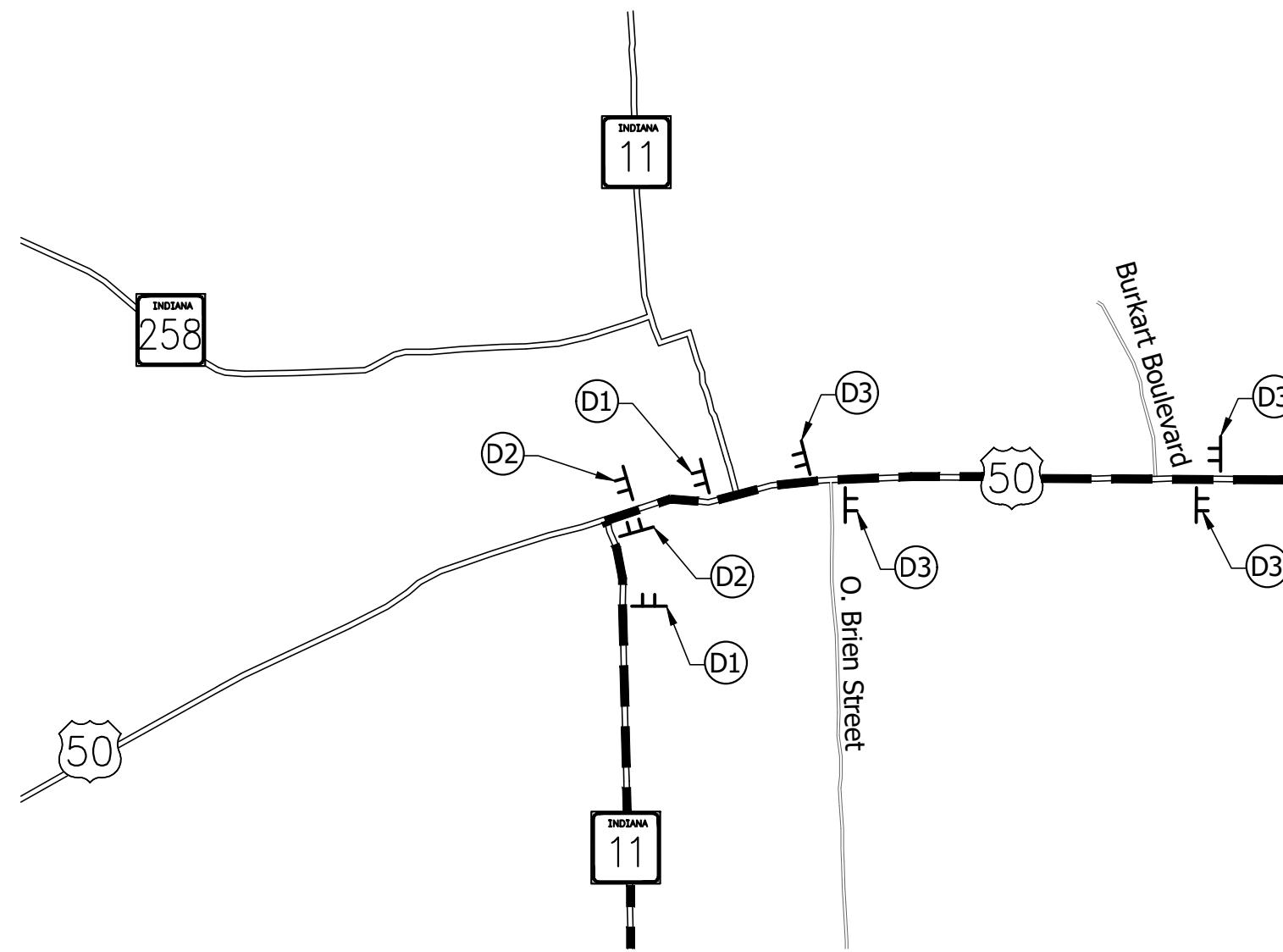
Section 29, T-5-N, R-6-E  
Washington Township  
Jackson County, IN

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00

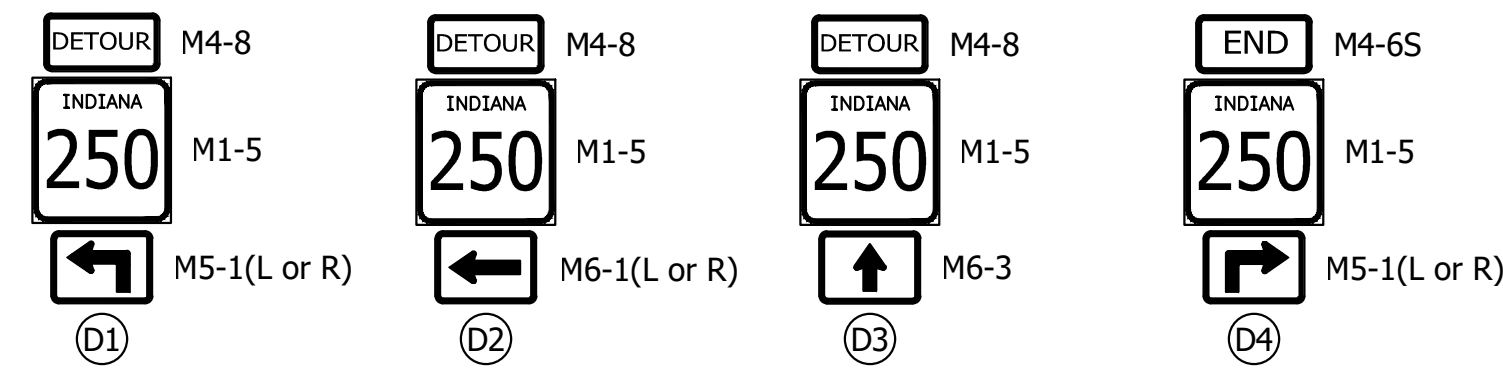
	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
			1"=60'	CV 250-036-09.30
	DESIGNED: AJC	DRAWN: MEN	VERTICAL SCALE	DESIGNATION
	CHECKED: SJM	CHECKED: AJC		1801015
			DRAWING NO.	SHEETS
				4 of 20
		PLAT NO.1	CONTRACT	PROJECT
			B-41445	1800276



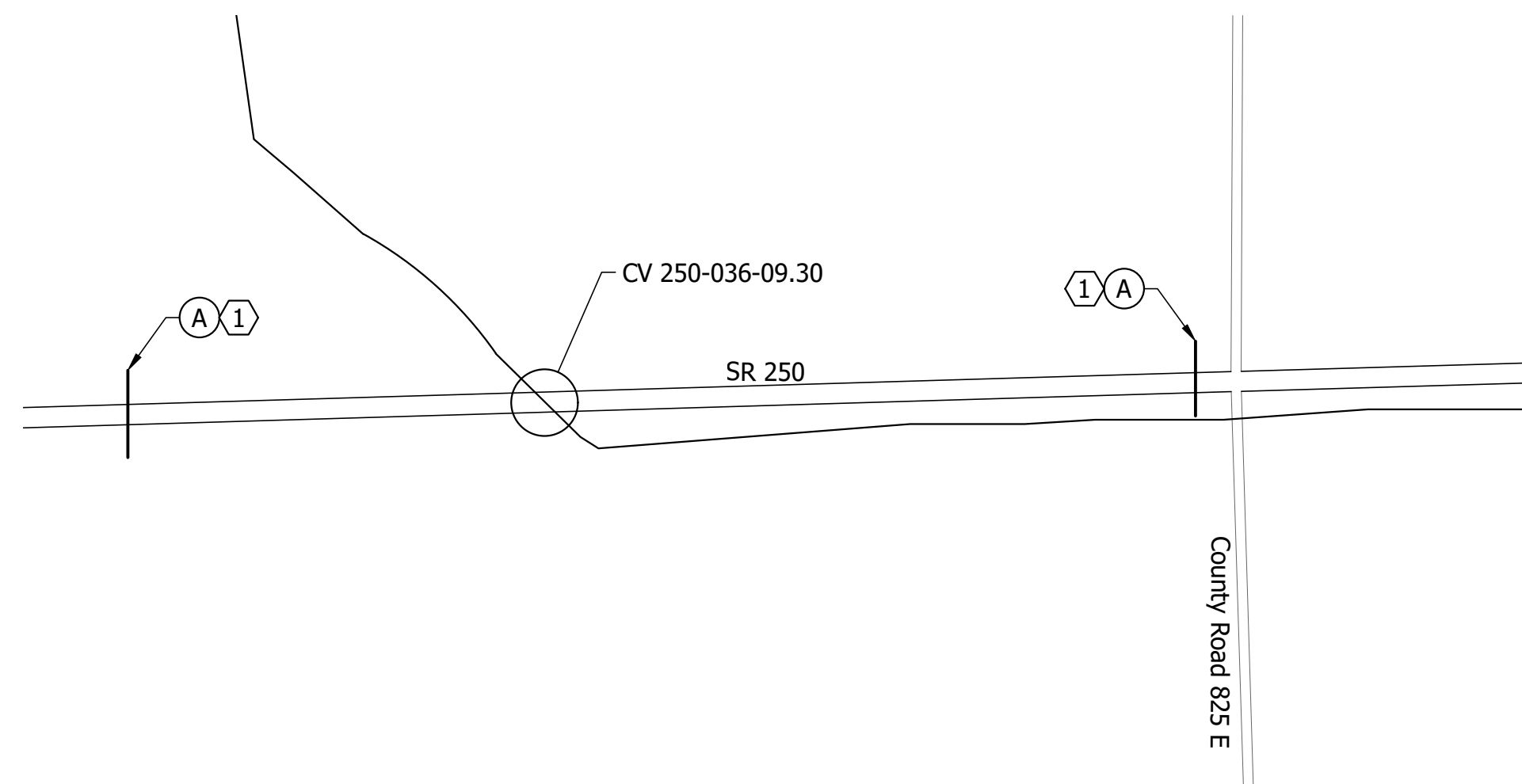
**DETOUR ROUTE MAP**  
No Scale



**DETAIL "B"**  
No Scale



**DETOUR ROUTE MARKER ASSEMBLIES**  
No Scale



**CLOSURE DETAIL "A"**  
No Scale

**LEGEND**

- (A) Barricade Type III-A & Road Closure Sign Assembly
- (B) Barricade Type III-B
- (C) Barricade Type III-B & Road Closure Sign Assembly
- (D) Detour Route Marker Assembly
- 1. Advance Turn
- 2. Directional
- 3. Confirming
- 4. End
- ..L.. Construction Sign and Support

**CONSTRUCTION SIGNS TYPE "A"**

- ① R11-2 Road Closed
- ② XW20-2 Detour Ahead
- ③ R11-4 Road Closed to Thru Traffic
- ④ XG20-5 SR 250 Closed on or After xx/xx/xxxx
- ⑤ XW20-3 Road Closed Ahead

**NOTES:**  
All signs, lights and barricades shall be in accordance with current INDOT Standards and the Manual on Uniform Traffic Control Devices.

All XG20-5 shall be installed a minimum of 14 days prior to closing road.

**MAINTENANCE OF TRAFFIC QUANTITIES**

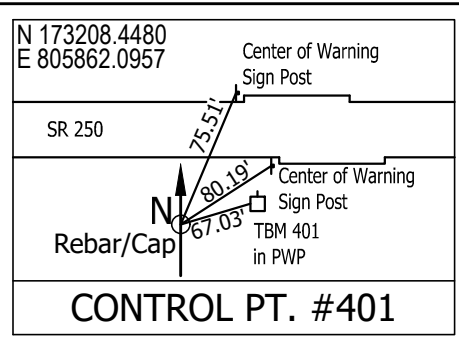
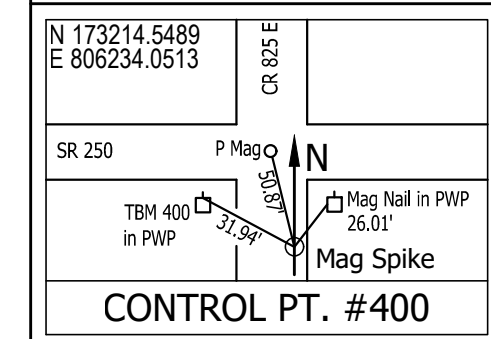
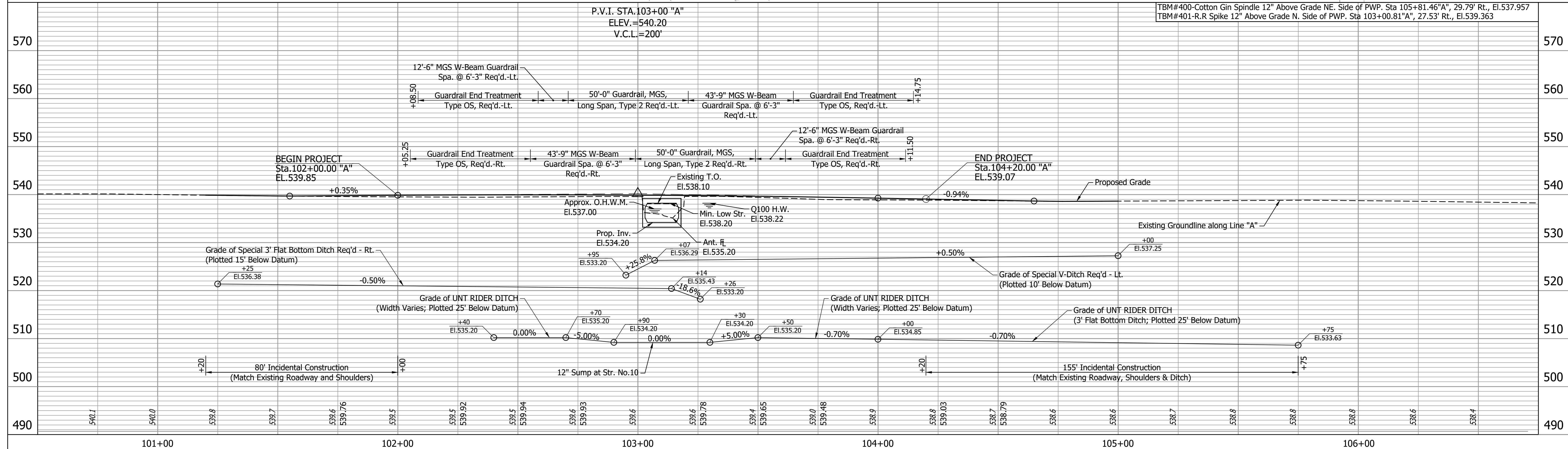
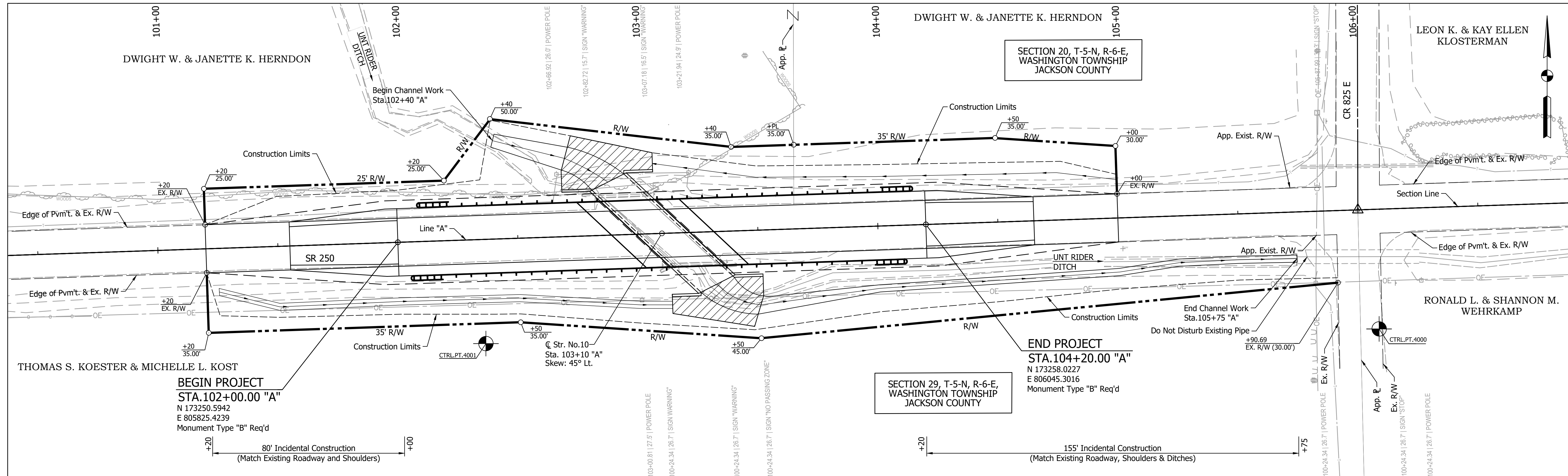
ITEM	QUANTITY
Barricade Type III-A	XX Lft.
Barricade Type III-B	XX Lft.
Road Closure Sign Assembly	XX Ea.
Construction Signs Type "A"	XX Ea.
Detour Route Marker Assembly	XX Ea.

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: AJC _____	DRAWN: MEN _____	
CHECKED: SJM _____	CHECKED: AJC _____	

INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
NO SCALE	CV 250-036-09.30
VERTICAL SCALE	DESIGNATION
NO SCALE	1801015
DRAWING NO.	SHEETS
	5 of 20
CONTRACT	PROJECT
B-41445	1800276

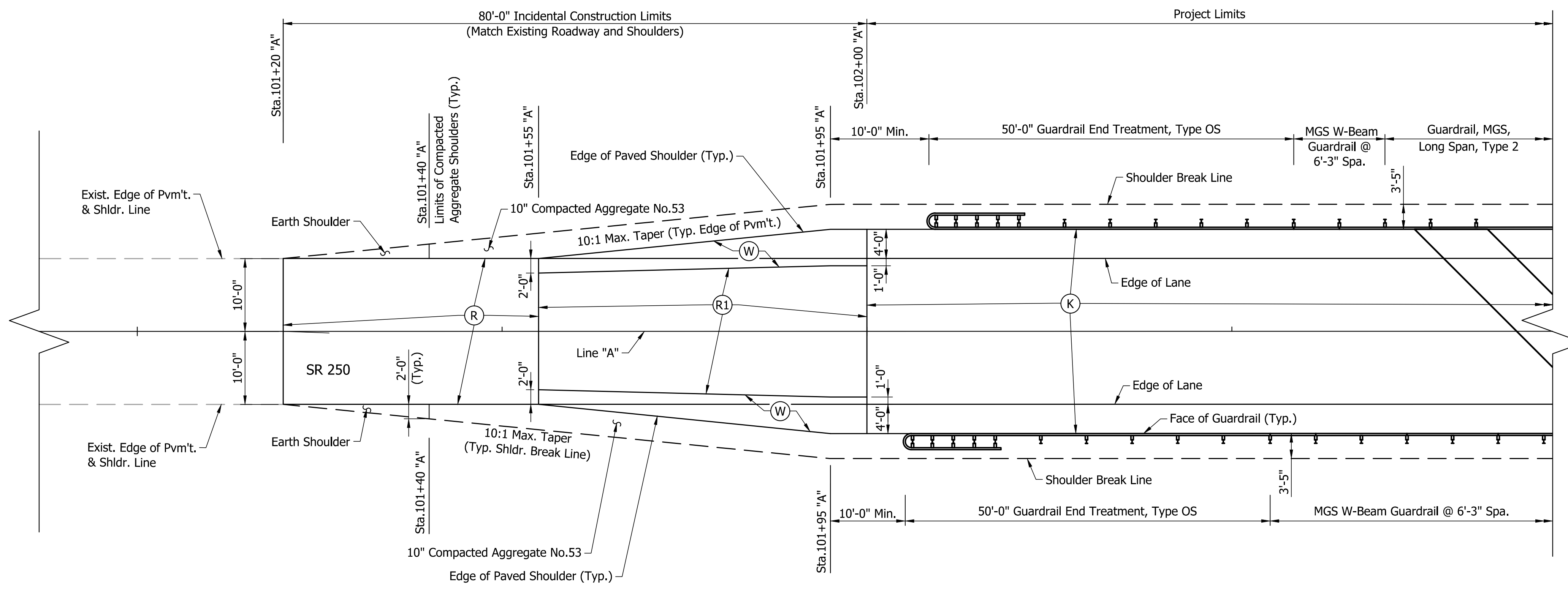


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: AJC	DRAWN: MEN	
CHECKED: SJM	CHECKED: AJC	

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

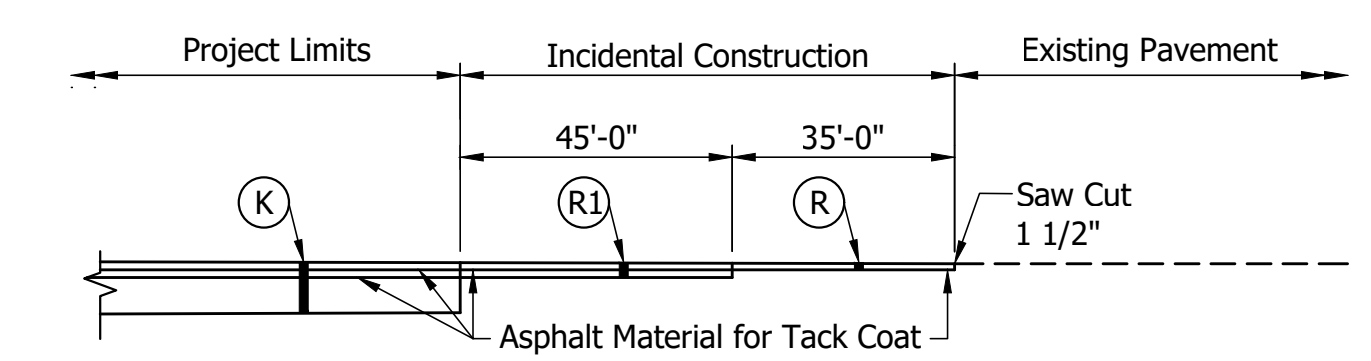
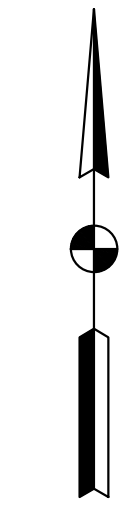
**PLAN AND PROFILE  
LINE "A"**

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	CV 250-036-09.30
VERTICAL SCALE	DESIGNATION
1"=10'	1801015
DRAWING NO.	SHEETS
	6 of 20
CONTRACT	PROJECT
B-41445	1800276

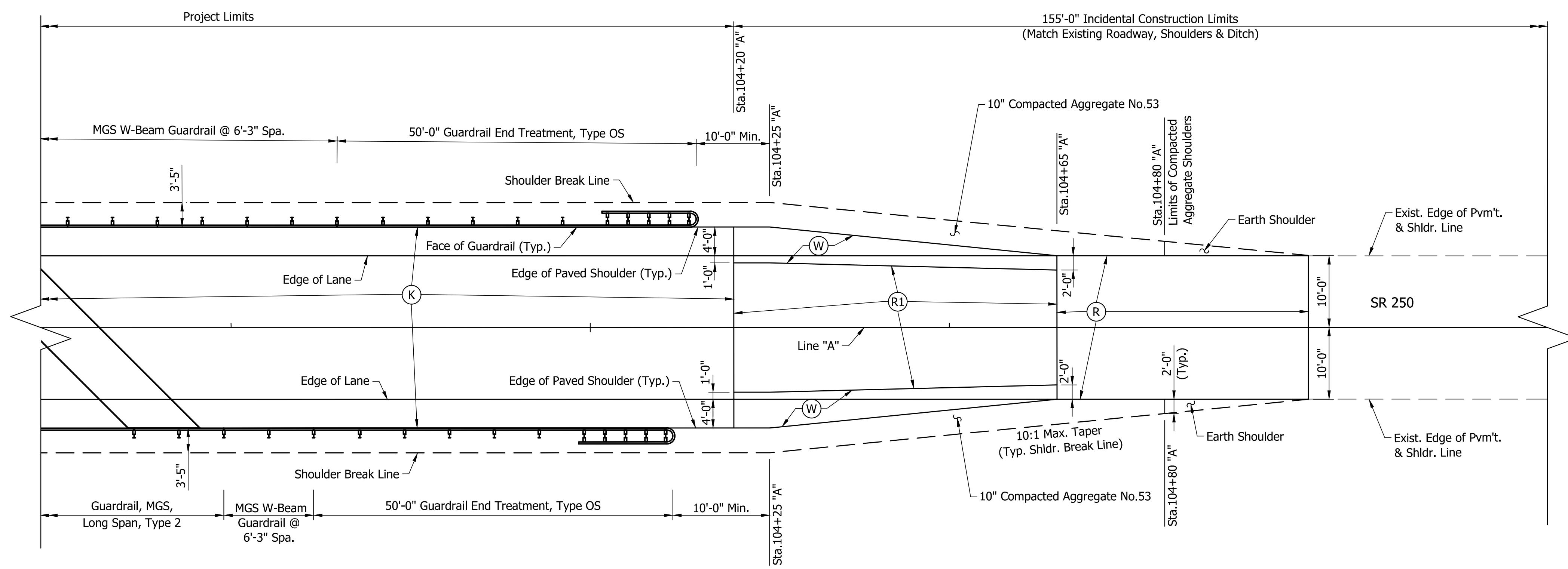


**SHOULDER AND GUARDRAIL DETAILS**  
(REQ'D. @ BEGINNING OF PROJECT)  
Scale: 1"=10'

- LEGEND**
- (K) 165#/Syd QC/QA-HMA, 3, 64, Surface, 9.5 mm on 275#/Syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on 660#/Syd QC/QA-HMA, 2, 64, Base, 25.0 mm
  - (W) Widening with HMA, Type C 165#/Syd QC/QA-HMA, 3, 64, Surface, 9.5 mm on 275#/Syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on 660#/Syd QC/QA-HMA, 2, 64, Base, 25.0 mm
  - (R) Milling Asphalt 1 1/2 in. and 165#/Syd QC/QA-HMA, 3, 64, Surface, 9.5 mm
  - (R1) Transition Milling, and 165#/Syd QC/QA-HMA, 3, 64, Surface, 9.5 mm 275#/Syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm



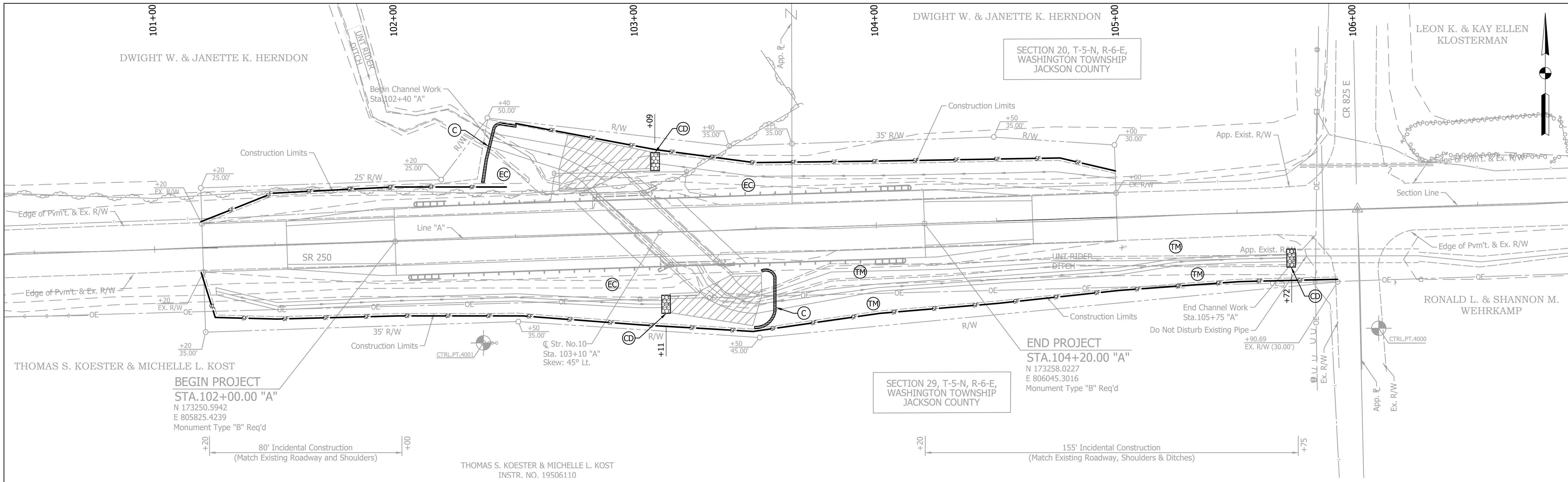
**MATCHING EXISTING PAVEMENT - LINE "A"**  
(REQ'D. @ BEGINNING AND END OF PROJECT)  
No Scale



**SHOULDER AND GUARDRAIL DETAILS**  
(REQ'D. @ END OF PROJECT)  
Scale: 1"=10'

Notes:  
For Plan & Profile, see Sht.6.  
For Guardrail, MGS, Long Span, Type 2, see Std.Dwg.E 601-MGSA-08

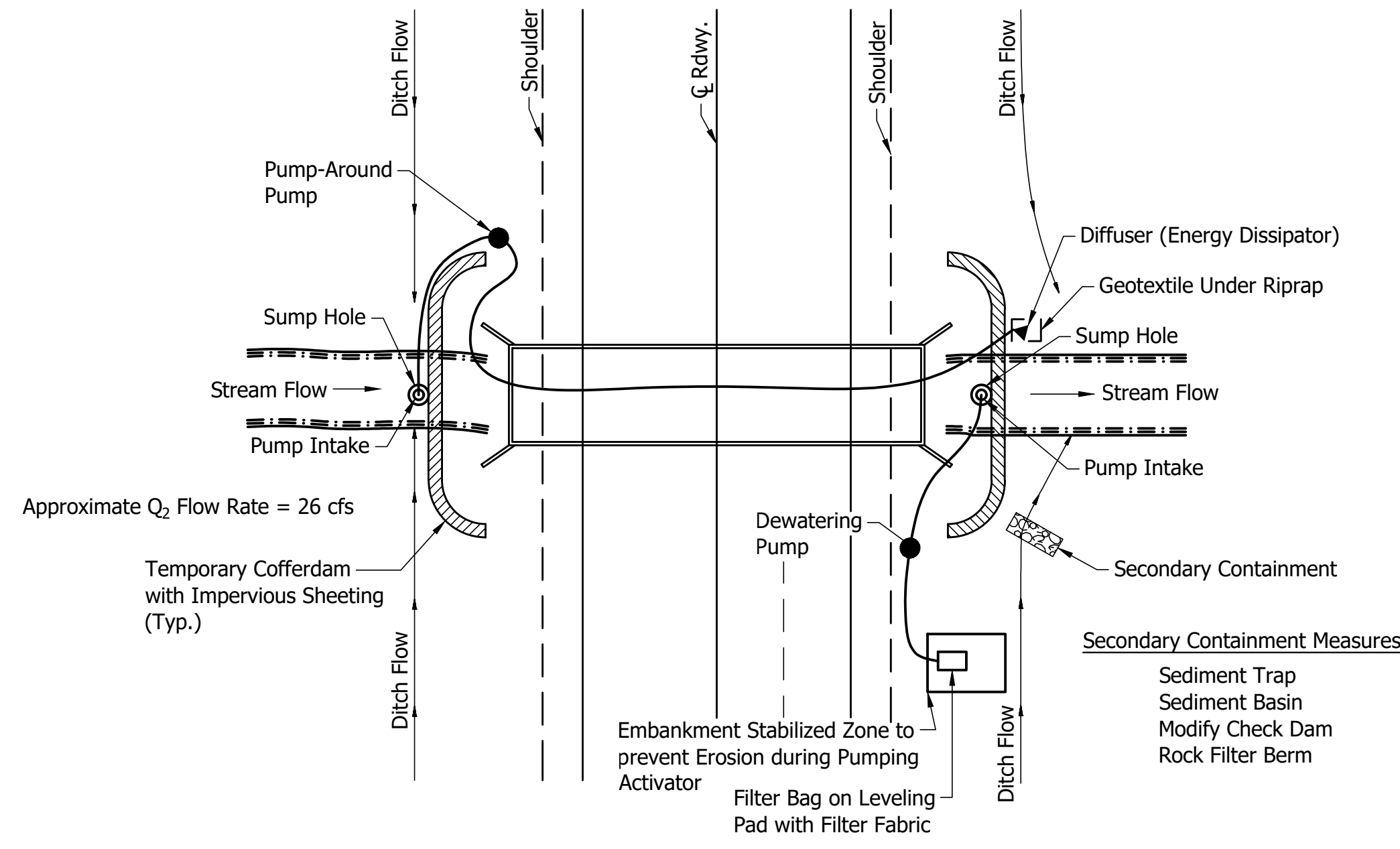
RECOMMENDED FOR APPROVAL _____ DESIGNED: AJC CHECKED: SJM	DESIGN ENGINEER _____ DRAWN: MEN CHECKED: AJC	DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	
			CONSTRUCTION LAYOUT DETAILS	
			HORIZONTAL SCALE AS NOTED	BRIDGE FILE CV 250-036-09.30
			VERTICAL SCALE AS NOTED	DESIGNATION 1801015
			DRAWING NO.	SHEETS 7 of 20
			CONTRACT B-41445	PROJECT 1800276



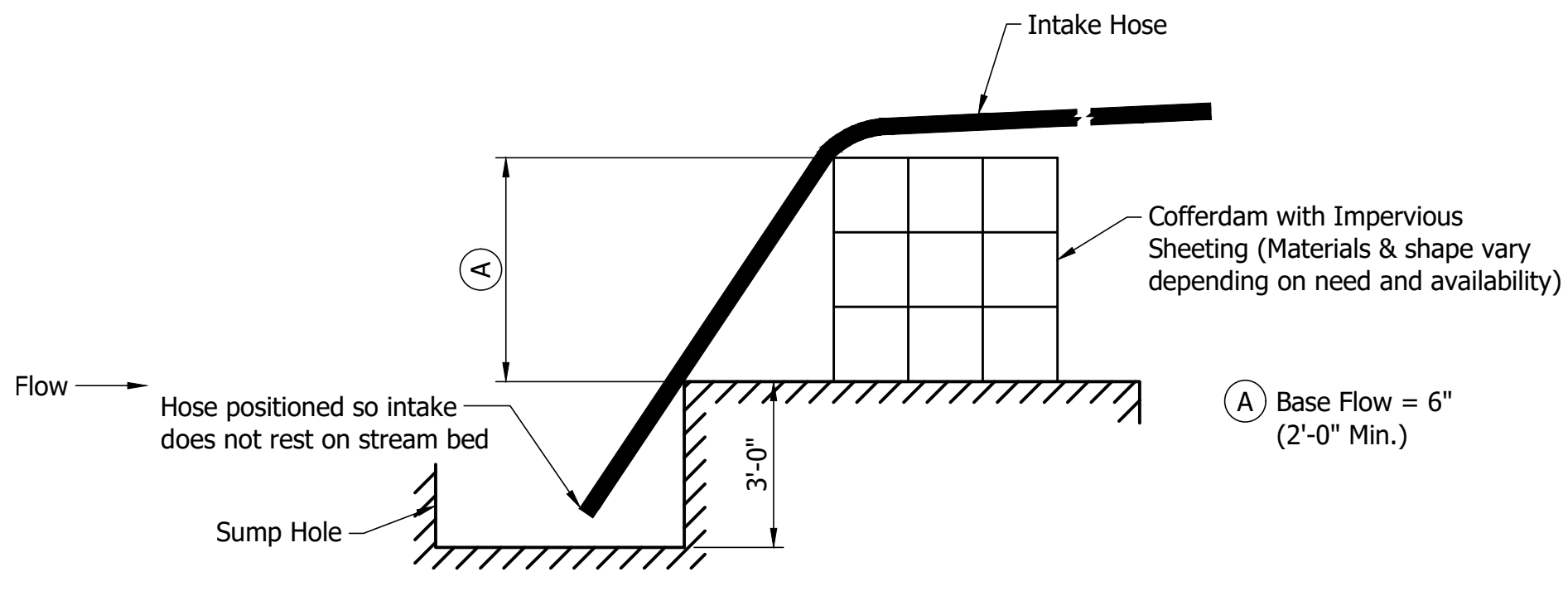
**BEGIN PROJECT**  
**STA. 102+00.00 "A"**  
 N 173250.5942  
 E 805825.4239  
 Monument Type "B" Req'd

**END PROJECT**  
**STA. 104+20.00 "A"**  
 N 173258.0227  
 E 806045.3016  
 Monument Type "B" Req'd

THOMAS S. KOESTER & MICHELLE L. KOST  
 INSTR. NO. 19506110



**PUMP AROUND AND DEWATERING DETAILS**  
 Detail For Illustration Purposes Only  
 No Scale



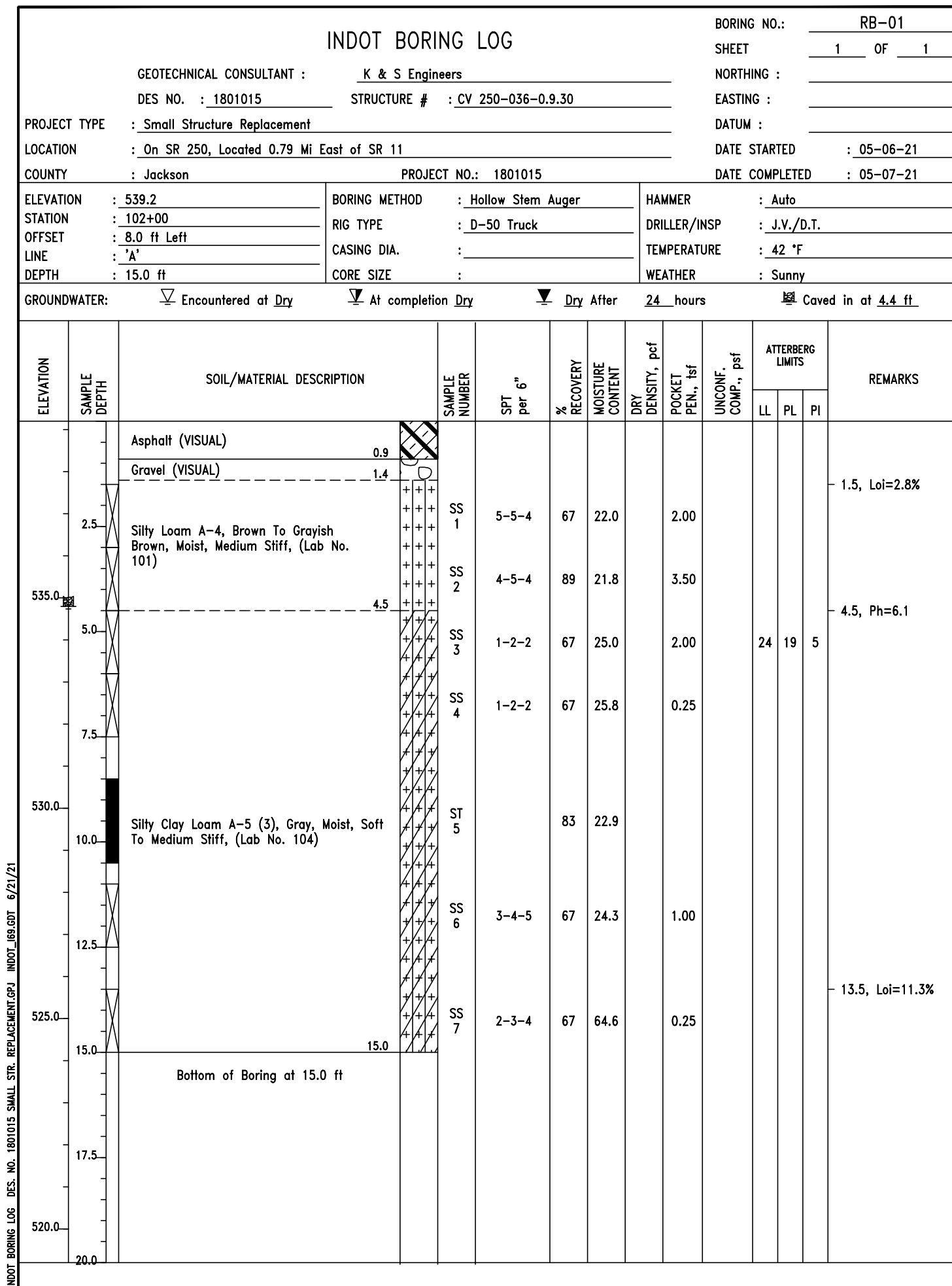
**COFFERDAM/SUMP HOLE WORK AREA**  
 Detail For Illustration Purposes Only  
 No Scale

- LEGEND**
- SF— Temporary Silt Fence
  - (C) Temporary Cofferdam with Impervious Sheeting
  - (CD) Temporary Check Dam
  - (EC) Manufactured Surface Protection Product/Erosion Control Blanket (All slopes Steeper than 3:1)  
Install on Rdwy Embankment side slopes at:  
Sta. 101+20 "A" Lt. & Rt. to Sta. 105+00 "A" Lt.
  - (TM) Permanent Turf Reinforcement Mat  
Install on Channel Side Slopes at:  
Sta. 103+30 "A" Rt. to Sta. 105+75 "A" Rt.
- Note:
1. Temporary Check Dam, Traversable
  2. Temporary Check Dam, Revetment Riprap
  3. Temporary Check Dam, Modified
- Temporary Check Dam, Traversable shall only be used when a check dam is required to be placed within 23' from the edge of the MOT or Design travel lane.
- For Temporary Check Dam Details, see Std.Dwgs.E205-TECD-06-08

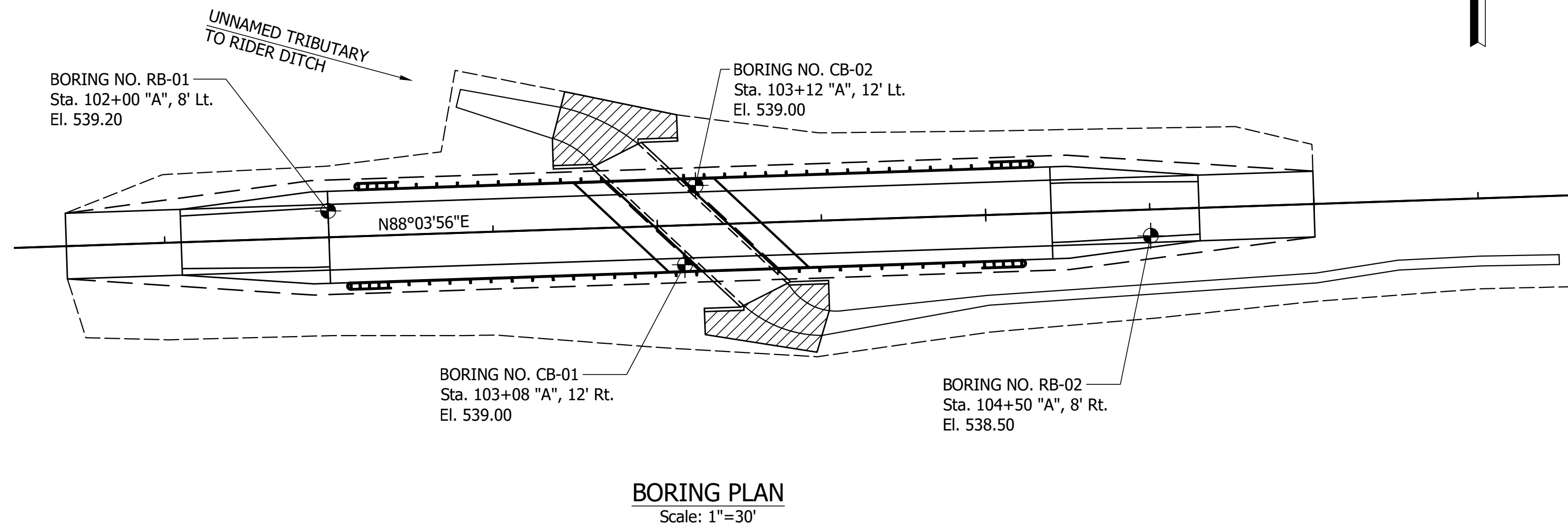
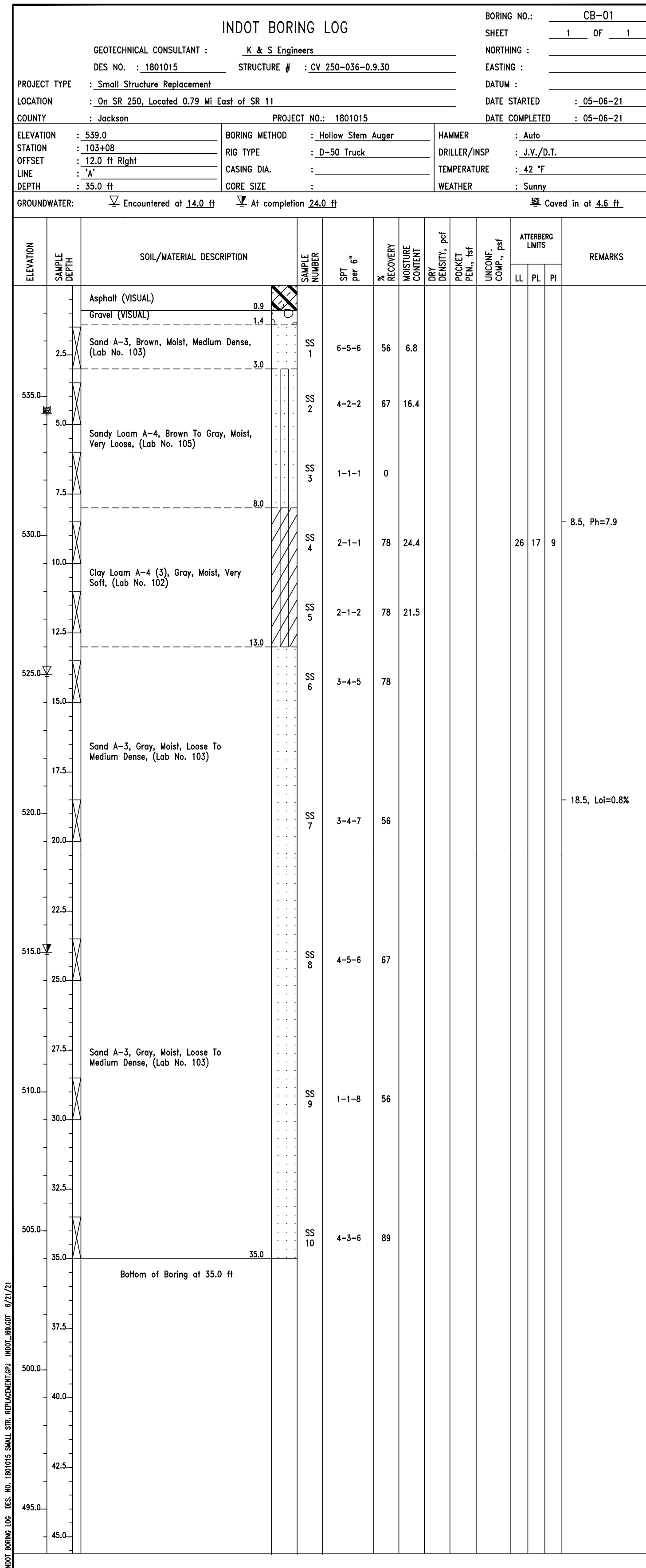
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
					1"=20'	CV 250-036-09.30
DESIGNED: AJC	DRAWN: MEN		EROSION CONTROL LINE "A"		VERTICAL SCALE	DESIGNATION
CHECKED: SJM	CHECKED: AJC				NONE	1801015
					DRAWING NO.	SHEETS
					CONTRACT	8 of 20
					B-41445	PROJECT
						1800276



**BORING NO. RB-01**



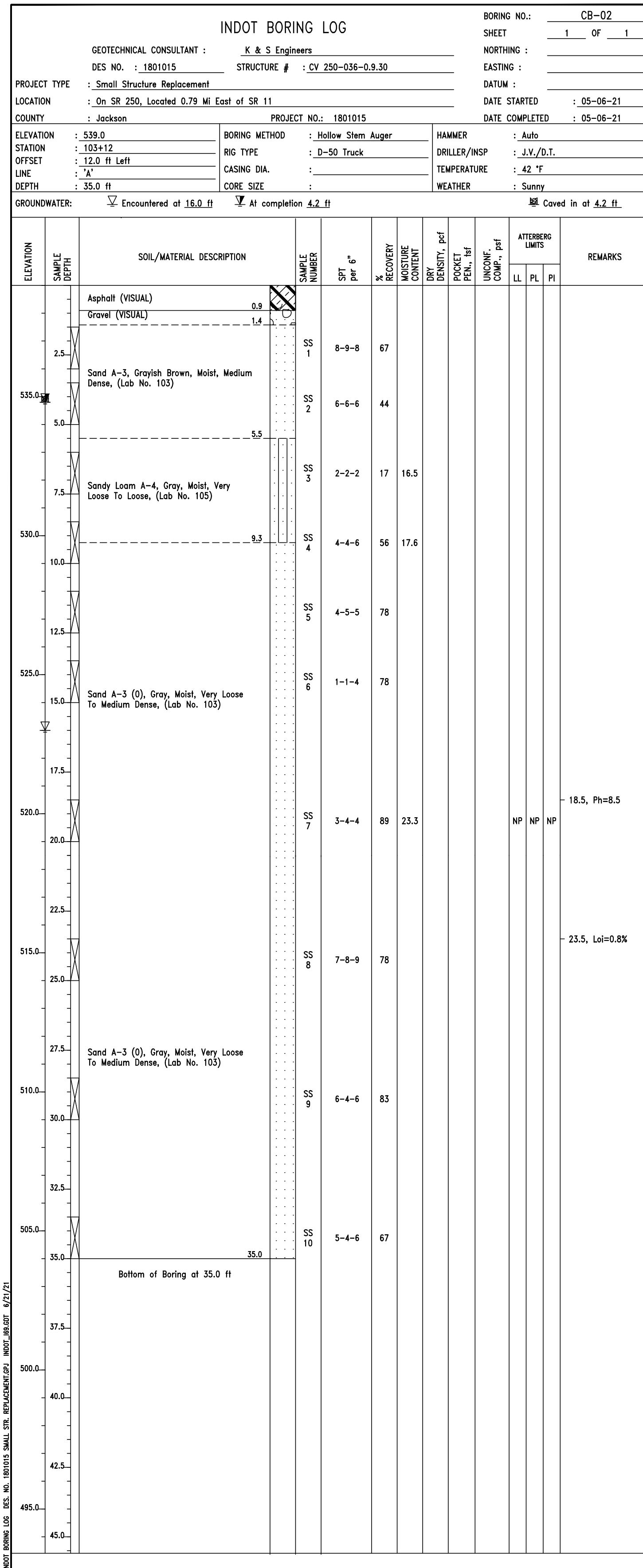
**BORING NO. CB-01**



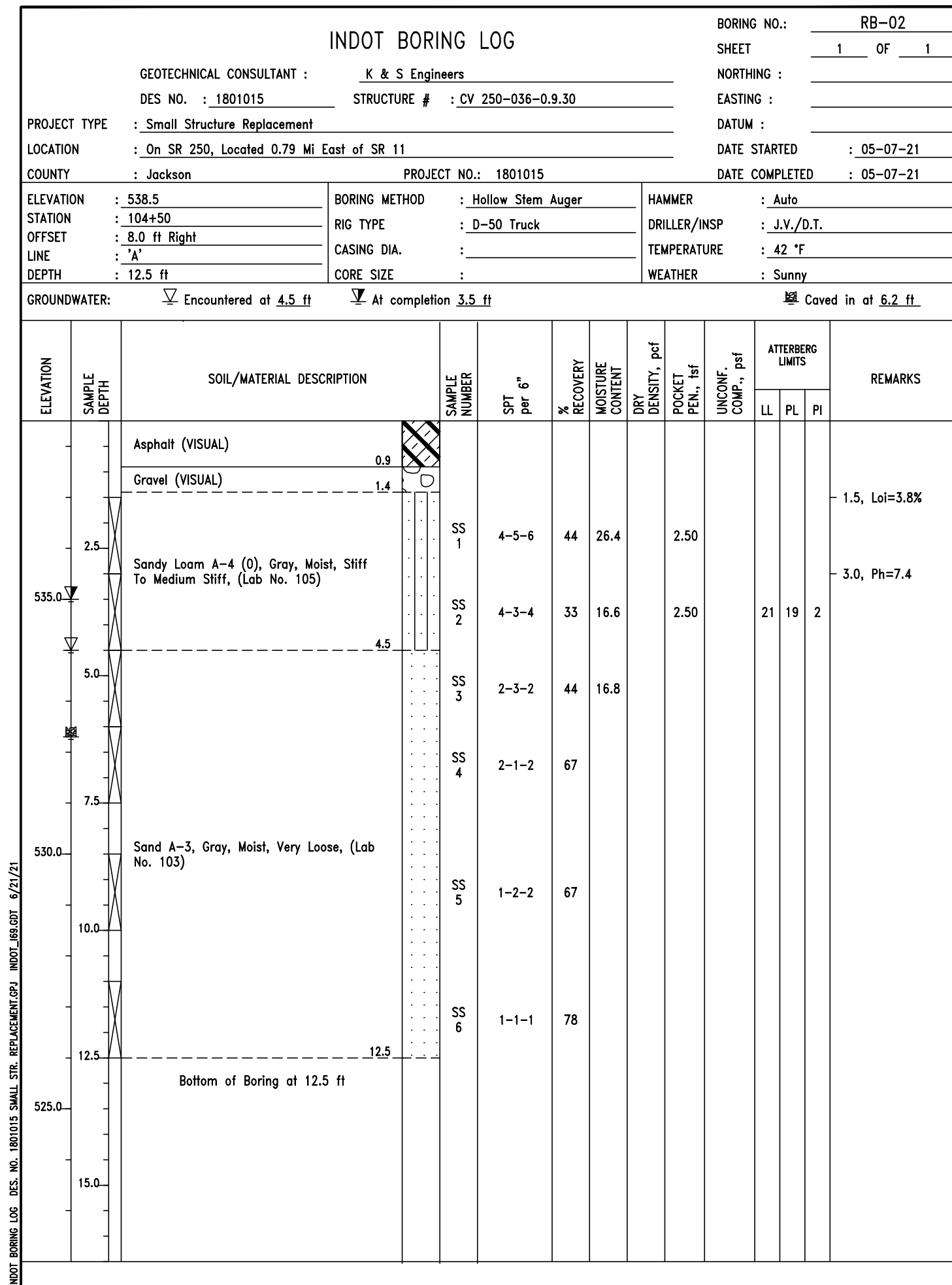
STANDARD PENETRATION TEST:  
Driving 2" O.D. Split-Barrel Sampler 18" with a 140 lb. Hammer falling 30".  
Blow counts indicate number of blows per 6" interval. First 6" for setting Sampler.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
			AS NOTED	CV 250-036-09.30
DESIGNED: AJC _____ DRAWN: MEN _____	DRAWING NO.	SHEETS	VERTICAL SCALE	DESIGNATION
			AS NOTED	1801015
CHECKED: SJM _____ CHECKED: AJC _____	CONTRACT	PROJECT	AS NOTED	1801015
			B-41445	1800276

BORING NO. CB-02

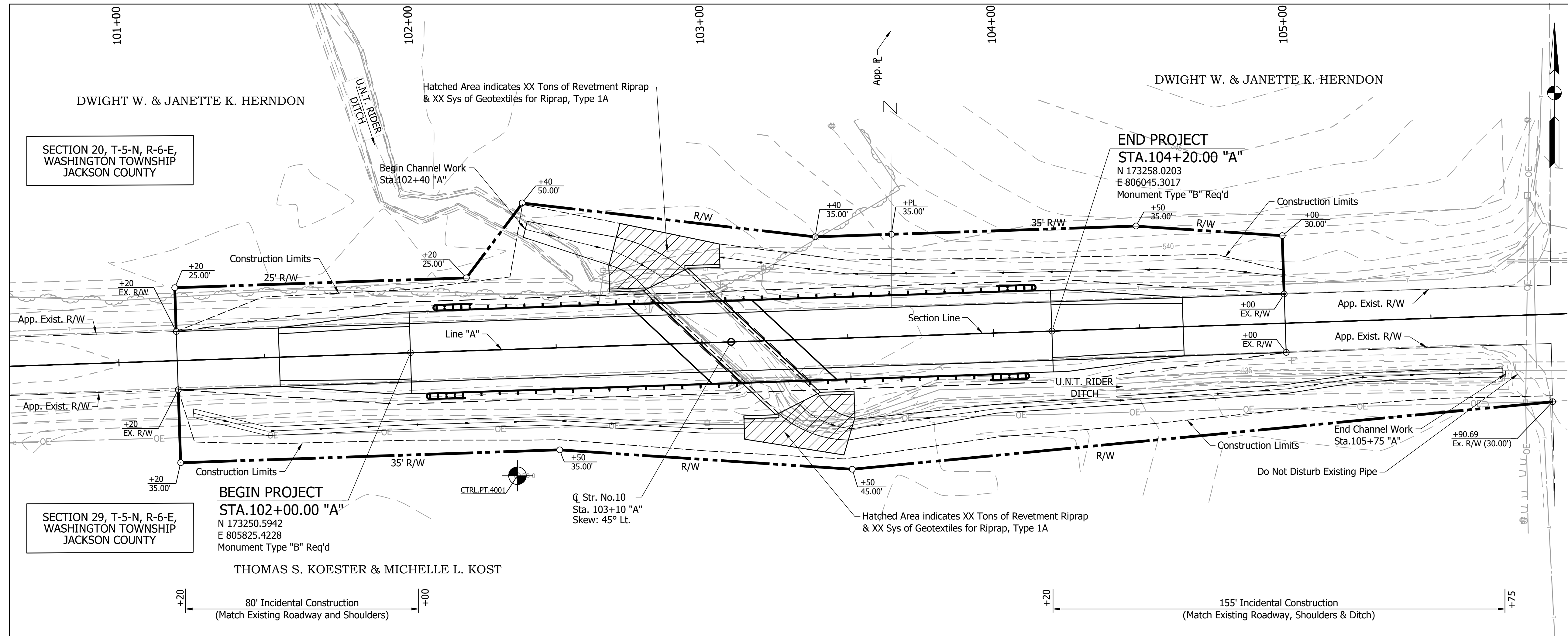


BORING NO. RB-02



NOTE:  
For Boring Plan, see Sht.9.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	DESIGNED: <u>AJC</u> DRAWN: <u>MEN</u> CHECKED: <u>SJM</u> CHECKED: <u>AJC</u>	INDIANA DEPARTMENT OF TRANSPORTATION  SOIL BORINGS LINE "A"	HORIZONTAL SCALE	BRIDGE FILE
			NONE	CV 250-036-09.30
			VERTICAL SCALE	DESIGNATION
			NONE	1801015
			DRAWING NO.	SHEETS
				10 of 20
			CONTRACT	PROJECT
			B-41445	1800276



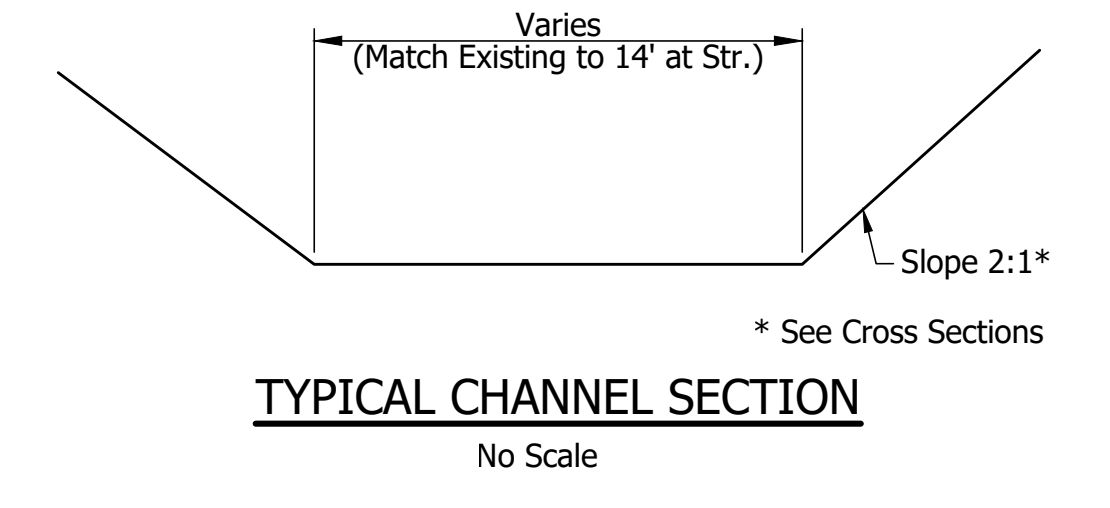
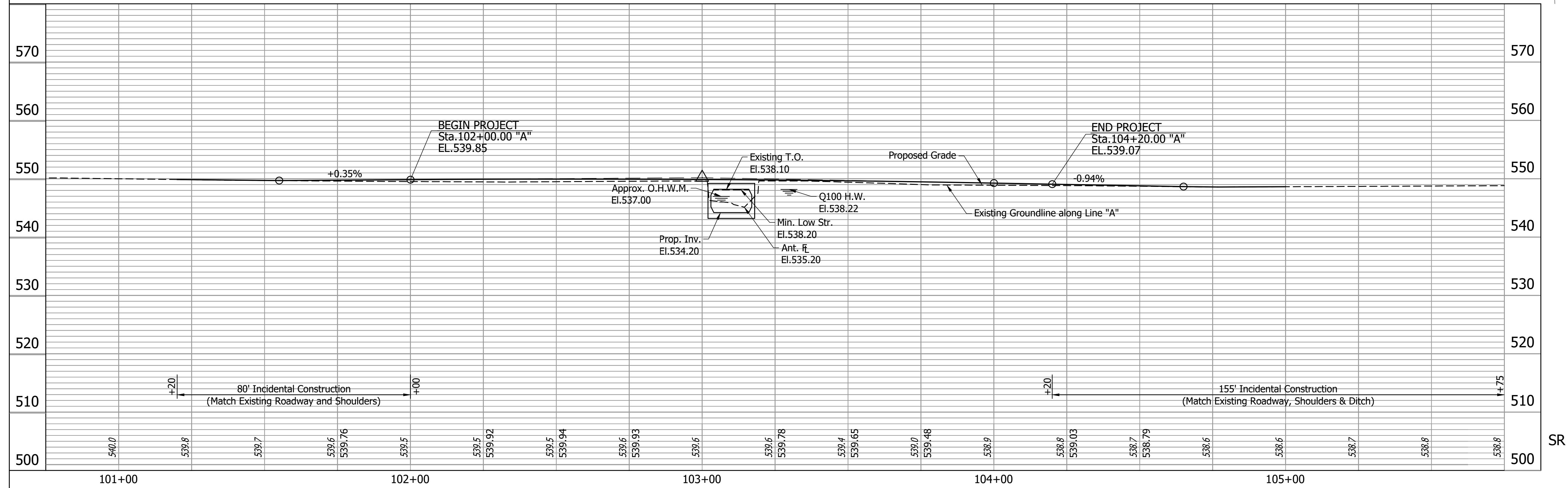
**EXISTING STRUCTURE**  
Existing Structure is a Single Span Prestressed Concrete Box Beam Small Structure (18'-0") with a 28'-0" Clear Roadway. (To Be Removed)

EARTHWORK SUMMARY	
Common Excavation	xxx Cys
Usable Common Excavation (xx%)	xxx Cys
Fill + 20%	xxx Cys
Waterway Excavation	xx Cys
Usable Waterway Excavation (50%)	xx Cys
Borrow/Waste	xx Cys

The estimated quantities for Benching are xxx Cys for Cut and xxx Cys for Fill and are not included in the Earthwork Summary.

**HYDRAULIC DATA**

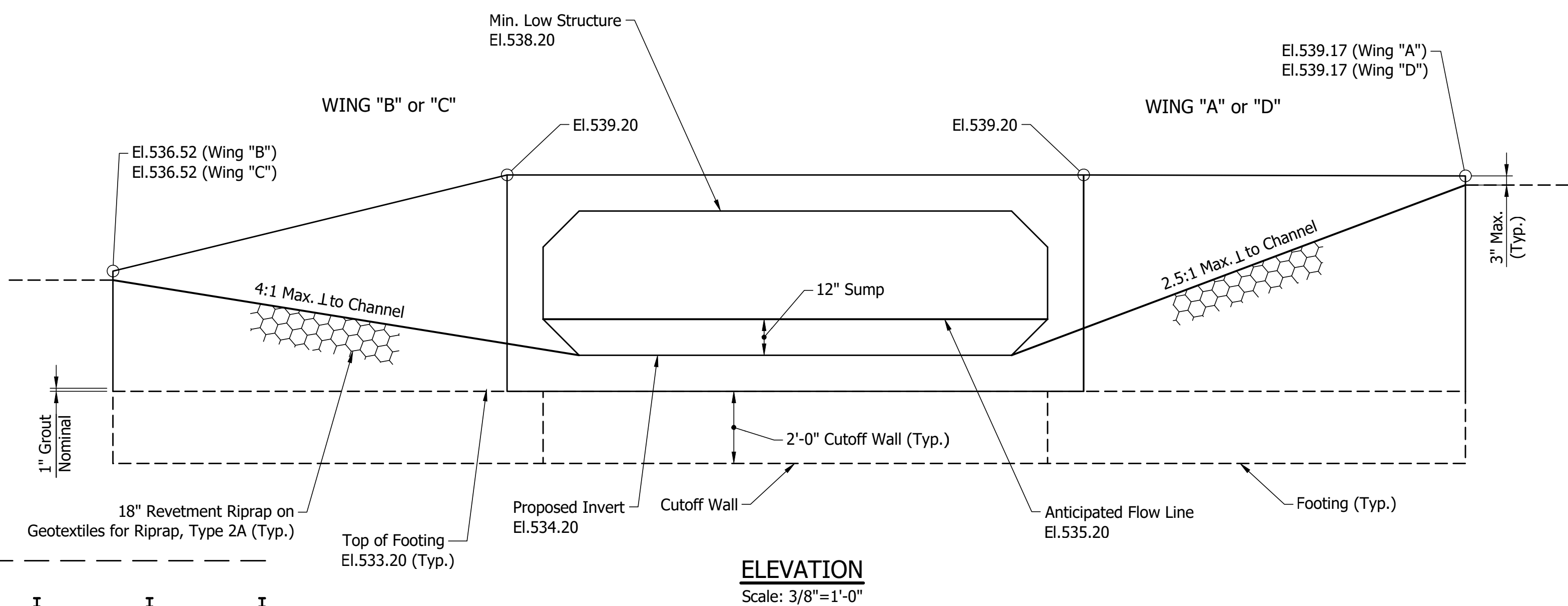
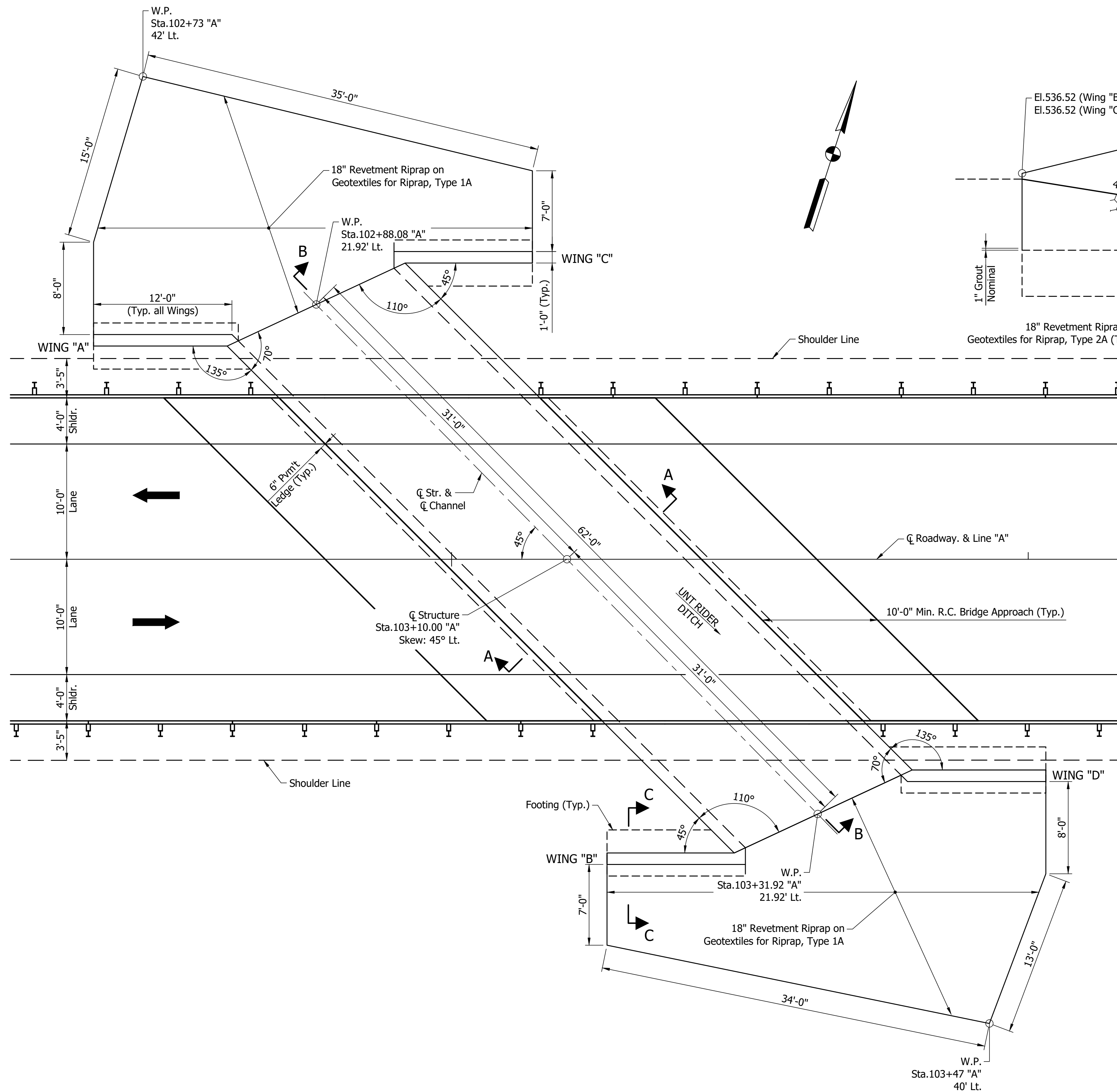
Drainage Area	0.316 Sq Mi
Design Discharge, Q100	261.2 cfs
High Water Elevation, Q100	El.538.22
<b>Existing Culvert</b>	
Waterway Area below Q100	
Net Area thru Culvert	39.0 Sft
Gross Area thru Culvert	39.0 Sft
Area over Road, Q100	0.00 Sft
Velocity thru Culvert, Q50	3.72 ft/sec
Backwater, Q100	1.04 ft
Low Structure Elevation	El.538.20
<b>Proposed Culvert</b>	
Waterway Area below Q100	
Net Area thru Culvert	41.0 Sft
Provided Gross Area thru Culvert	41.0 Sft
Area over Road, Q100	0.00 Sft
Velocity thru Culvert, Q10	3.50 ft/sec
Backwater, Q100	1.01 ft
Proposed Low Structure Elevation	El.538.20
Skew	45° Lt.
Flowline Elevation (@ Upstream Coping)	El.535.20



Note:  
For Ditch Grades and Guardrail Limits, see Plan & Profile, Sht.6.  
All R/W on this sheet described from Line "A", except as noted.

**PRECAST REINFORCED CONCRETE BOX  
1 SPAN: 14'-0" RISE 4'-0"  
28'-0" CLEAR ROADWAY SKEW: 45°  
SR 250 OVER UNNAMED TRIBUTARY TO RIDER DITCH  
JACKSON COUNTY**

101+00	102+00	103+00	104+00	105+00	<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>	HORIZONTAL SCALE 1"=30' VERTICAL SCALE 1"=10'	BRIDGE FILE CV 250-036-09.30 DESIGNATION 1801015
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____						<b>LAYOUT LINE "A"</b>	DRAWING NO. _____ SHEETS 11 of 20
DESIGNED: AJC      DRAWN: MEN CHECKED: SJM      CHECKED: AJC					CONTRACT B-41445      PROJECT 1800276		



**PLAN**  
Scale: 3/16"=1'-0"

**ELEVATION**  
Scale: 3/8"=1'-0"

Notes:  
For Section A-A, B-B, and C-C, see Sht.9.  
For General Notes and Wingwall Information, see Sht.9.

**PRECAST REINFORCED CONCRETE BOX**  
1 SPAN: 14'-0" RISE 4'-0"  
28'-0" CLEAR ROADWAY SKEW: 45°  
SR 250 OVER UNNAMED TRIBUTARY TO RIDER DITCH  
JACKSON COUNTY

RECOMMENDED FOR APPROVAL _____ DESIGNED: AJC CHECKED: SJM	DESIGN ENGINEER _____ DRAWN: MEN CHECKED: AJC	DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	
			GENERAL PLAN	
			HORIZONTAL SCALE AS NOTED	BRIDGE FILE CV 250-036-09.30
			VERTICAL SCALE AS NOTED	DESIGNATION 1801015
			DRAWING NO.	SHEETS 12 of 20
			CONTRACT B-41445	PROJECT 1800276

**GENERAL NOTES**

Reinforcing steel covering in footings and base slab shall be 3" in the top and sides and 4" in the bottom. All other parts to be 2" unless otherwise noted.

Alternate Cast-In-Place Wingwalls may be substituted for the Precast Wingwall shown in Section C-C.

Contractor shall verify the existing flowline elevation to set appropriate sump depth. (12" Sump)

Wingwalls to be set on outside of the ends of the precast four-sided structure. The minimum width for the wingwall footing shall be 3'-0".

The exposed faces of wingwalls to be sealed in accordance with Article 702.21 of the Specifications. The surface seal shall be applied in the shop for precast concrete elements. (Estimated Quantity = XXX Sft.)

All joints, exterior vertical surfaces, and the exterior top horizontal surface of the precast concrete box structure shall be covered in their entirety with a water proofing membrane. See the special provisions.

The Contractor shall excavate the soft or wet soils below the proposed structure and replace the unsuitable material. If the depth of excavation exceeds 1 foot, the contractor shall contact the INDOT Office of Geotechnical Services.

**DESIGN DATA**

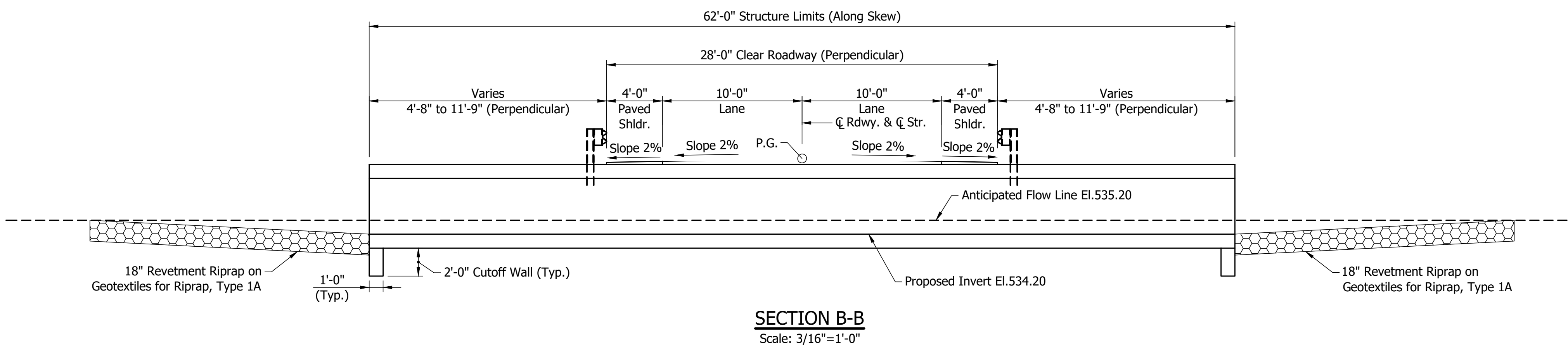
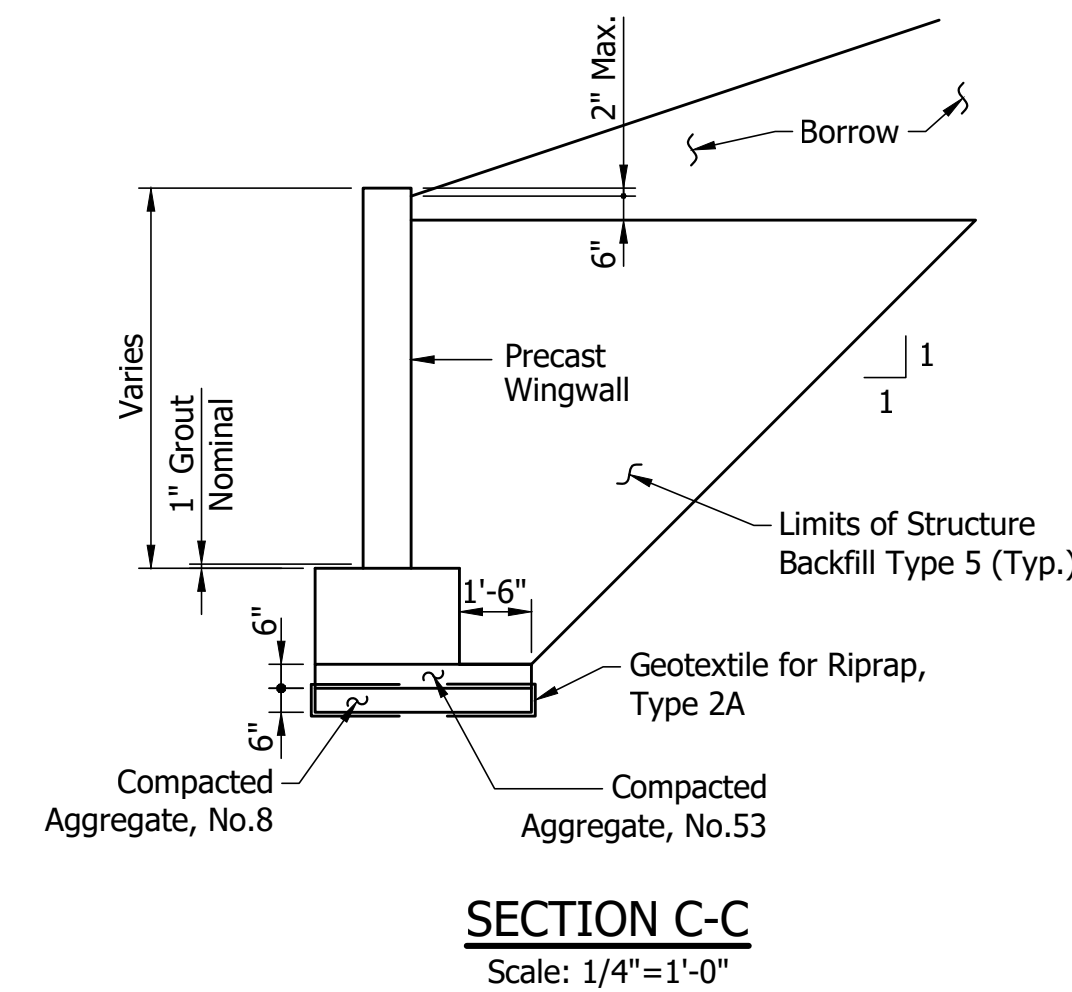
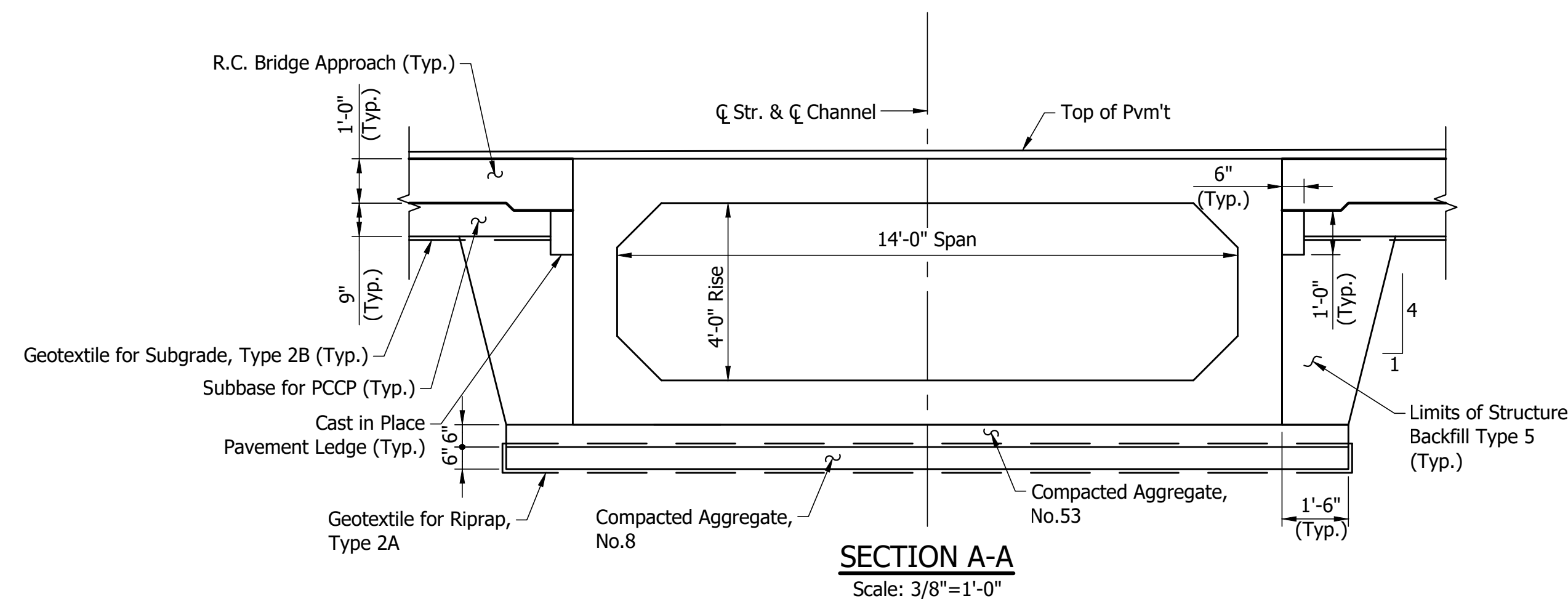
**LIVE LOAD:** Designed for HL-93 loading in accordance with AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2017.

**DEAD LOAD:** Actual weight plus 35 psf (composite) for future wearing surface.

**DESIGN STRENGTHS:** To be in accordance with AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2017.

**CONCRETE:**  
 Class "A":  $f_c=3500$  psi  
 Class "B":  $f_c=3000$  psi  
 Class "C":  $f_c=4000$  psi

**REINFORCING STEEL:**  
 Grade 60:  $f_y=60,000$  psi



WINGWALL INFORMATION		
	AREAS	LENGTH
Wing "A"	71.9 Sft.	12'-0"
Wing "B"	56.0 Sft.	12'-0"
Wing "C"	56.0 Sft.	12'-0"
Wing "D"	71.9 Sft.	12'-0"

SOIL PARAMETERS FOR FOOTING/WINGWALL DESIGN	
Bearing Resistance Factor ( $\phi_b$ )	0.45
Nominal Bearing Resistance ( $q_n$ )	3550 psf
Factored Bearing Resistance ( $q_n$ )	1600 psf
Angle of Friction Between Wingwall Footing and Foundation Soil, ( $\delta$ )	0
Ultimate Cohesion of Foundation Soil (C)	650 psf
Ultimate Adhesion Between Footings & Foundation Soil ( $C_a$ )	390 psf
Unit Weight of Backfill Material	130 pcf
Friction Angle Between Wall and Backfill ( $\delta_r$ )	20

Notes:  
 For Plan & Elevation, see Sht.8.

**PRECAST REINFORCED CONCRETE BOX**  
 1 SPAN: 14'-0" RISE 4'-0"  
 28'-0" CLEAR ROADWAY SKEW: 45°  
 SR 250 OVER UNNAMED TRIBUTARY TO RIDER DITCH  
 JACKSON COUNTY

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: AJC _____	DRAWN: MEN _____	
CHECKED: SJM _____	CHECKED: AJC _____	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	CV 250-036-09.30
VERTICAL SCALE	DESIGNATION
AS NOTED	1801015
DRAWING NO.	SHEETS
	13 of 20
CONTRACT	PROJECT
B-41445	1800276

### PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH LFT	LENGTH LFT	RADI FT	DISTANCE BEYOND R/W LINE LFT	SURFACE BEYOND R/W LINE			GRADE	EXCAVATION		CLEAR ZONE AT DRIVE LFT	HMA FOR APPROACHES				QC/QA HMA FOR ROADS				PCCP FOR APPROACHES, 9" SYS	ASPHALT MATERIAL FOR		COMPACTED AGGREGATE FOR BASE NO. 53		COMPACTED AGGREGATE FOR SURFACE NO. 73		MILLING APPROACH SYS	JOINT ADHESIVE, SURFACE LFT	JOINT ADHESIVE, INTERMEDIATE LFT	LIQUID ASPHALT SEALANT LFT	SUBGRADE TREATMENT TYPE IA SYS	SUBGRADE TREATMENT TYPE IIA SYS	SUBGRADE TREATMENT TYPE IIA (UNDIST.) SYS	COMBINED CURB & GUTTER, TYPE C LFT	CURB, CONCRETE, MODIFIED LFT	CONCRETE SIDEWALK, 4" SYS	CURB RAMP, CONCRETE, 6" SYS	REMARKS												
						COMPACTED AGGREGATE NO. 73 SYS	HMA FOR APPR., TYPE B SYS	PCCP SYS		1 %	2 %		CUT CYS	FILL CYS	SURFACE TYPE B LBS PER SYD	INTERMD TYPE LBS PER SYD	BASE TYPE LBS PER SYD	HMA 2.64, SURFACE, 9.5 mm TONS	HMA 2.64, INTERMD, 19.0 mm TONS	HMA 2.64, BASE, 25.0 mm TONS		TONS	TONS	TONS	TONS	PRIME COAT SYS	TACK COAT SYS													3" DEPTH TONS	3" DEPTH TONS										
						TOTALS																																													

### STRUCTURE DATA

STRUCTURE NUMBER	LOCATION		SIZE IN.	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH LFT	SKEW DEG	FLOW LINE			SERVICE LIFE YR	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL TYPE CYS	REVEMENT RIPRAP TONS	PIPE CASING, STEEL, 20 IN. LFT	GEOTEXTILES PIPE END SECTION EA.	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR.	REMARKS									
	STATION	LEFT CROSS RIGHT						UP STREAM ELEV.	DOWN STREAM ELEV.	TYPE									SLOPE	EA.	SIZE	SLOPE	EA.												
	COVER	COVER						COVER																											
10	103+10 "A"	X	168x48	Precast Reinf. Conc. Box	62	45	Varies	535.20	535.20	75			I	5																					Epoxy Coated Reinf.
TOTALS																																			

### SHEET SIGN SUMMARY

STATION	CODE	DESCRIPTION	SIZE	ENCAPS. LENS		ENCLOSED LENS		POST LENGTH			POST PAY LENGTH			SIGN, GROUND MOUNTED, RESET
				0.08"	0.10"	-	-	1	2	3	A	SQ.	B	
TOTAL														

### PAVEMENT MARKING TABLE

LT/RT	LOCATION STATION	4 in., THERMO, SOLID WHITE EDGE LINE	4 in., THERMO, SOLID YELLOW CENTERLINE	TRANSVERSE MARKING, THERMO, CROSSWALK, 6 in.	4 in., MULTICOMPONENT, SOLID, YELLOW CENTERLINE	TRANSVERSE MARKING, THERMO, STOP LINE, 24 in.
TOTALS						

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

LOCATION		LEFT MEDIAN RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8 FT EQUIV. LENGTH EACH)	PAVEMENT SIDE DITCH				RIPRAP DITCH			SODDING					NURSERY SODDING FOR LAWS	
FROM STATION	TO STATION				TOTAL EQUIVALENT PAY LENGTHS				RIPRAP REVEMENT TONS	RIPRAP UNIFORM TONS	GEOTEXTILES SYS	FOR PAVED SIDE DITCHES SYS	FOR DITCHES SYS	FOR MEDIAN SYS	FOR SHOULDER BREAK SYS	SODDING AT BRIDGE CONE SYS		TOTAL SODDING SYS
					LFT	EACH	LFT	LFT										
TOTALS																		

### R/W MARKER SUMMARY

LT./RT.	STATION	OFFSET (ft)	NO. REQ'D.	FLUSH MOUNT
TOTAL				

### MAILBOX APPROACHES

LT./RT.	BOX STATION	DESCRIPTION	WIDTH, W (FT)	ASSEMBLY REQ'D		
				SINGLE	DOUBLE	TRIPLE
TOTAL						

### GUARDRAIL SUMMARY TABLE

LOCATION		LEFT MEDIAN RIGHT	W-BEAM GUARDRAIL LENGTH						GUARDRAIL FLARE RATE	GUARDRAIL TRANSITION TYPE TGB	GUARDRAIL TRANSITION TYPE	GUARDRAIL END TREATMENT TYPE OS	CURVED W-BEAM GUARDRAIL SYSTEM				REMARKS		
FROM STATION	TO STATION		STANDARD POST AT 6 FT 3 IN. SPA.	STANDARD POST AT 3 FT 1.5 IN. SPA.	DOUBLE FACED AT 6 FT 3 IN. SPA.	DOUBLE FACED AT 3 FT 1.5 IN. SPA.	SHOP CURVED AT ____ FT. SPA.	NESTING GUARDRAIL					TERMINAL SYSTEM	CONNECTOR SYSTEM	GUARDRAIL REMOVE	GUARDRAIL RESET		IMPACT ATTENUATOR TYPE CR-1, WI, TL-2	IMPACT ATTENUATOR TYPE
			LFT	LFT	LFT	LFT	LFT	EACH					TYPE	EACH	TYPE	EACH		LFT	LFT
TOTALS																			

RECOMMENDED FOR APPROVAL \_\_\_\_\_

DESIGN ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED: AJC

DRAWN: MEN

CHECKED: SJM

CHECKED: AJC

INDIANA  
DEPARTMENT OF TRANSPORTATION

ROAD SUMMARY OF QUANTITIES

HORIZONTAL SCALE \_\_\_\_\_ BRIDGE FILE \_\_\_\_\_

N/A \_\_\_\_\_ CV 250-036-09.30

VERTICAL SCALE \_\_\_\_\_ DESIGNATION \_\_\_\_\_

N/A \_\_\_\_\_ 1801015

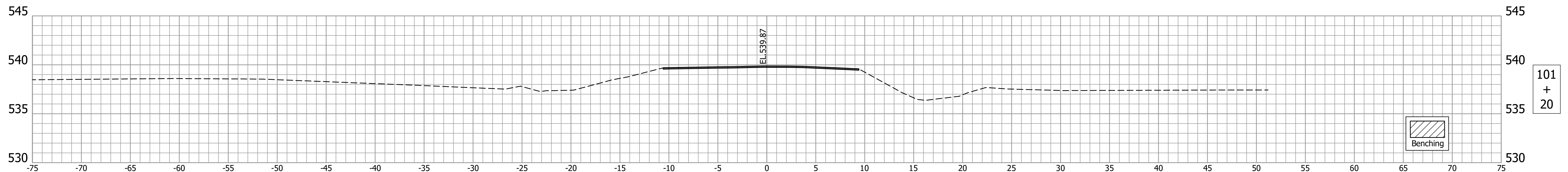
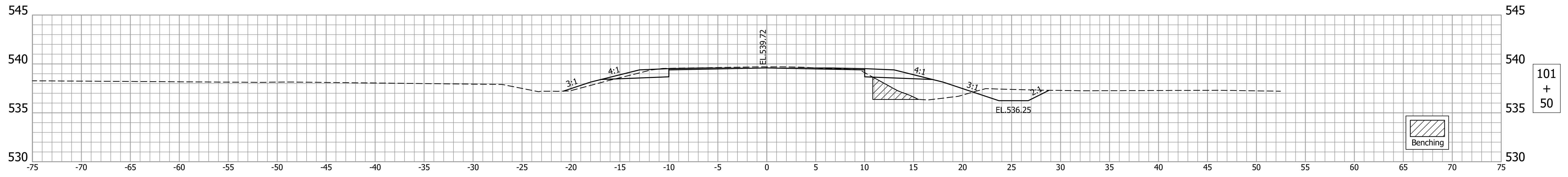
DRAWING NO. \_\_\_\_\_ SHEETS \_\_\_\_\_

CONTRACT \_\_\_\_\_ 14 of 20

B-41445 PROJECT \_\_\_\_\_

1800276





BEGIN INCIDENTAL CONSTRUCTION  
STA. 101+20.00 "A"



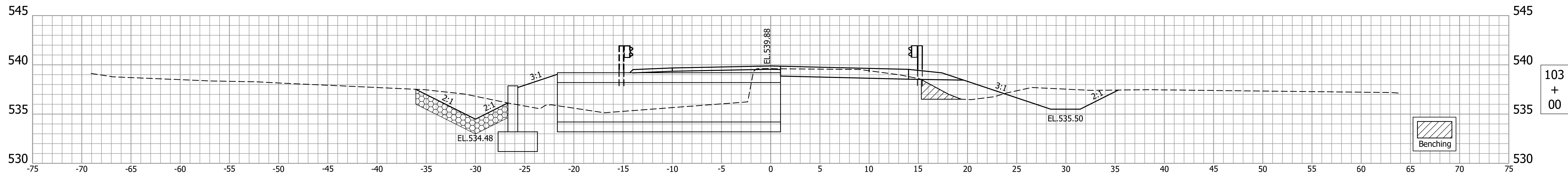
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: AJC _____	DRAWN: MEN _____	
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INDIANA  
DEPARTMENT OF TRANSPORTATION

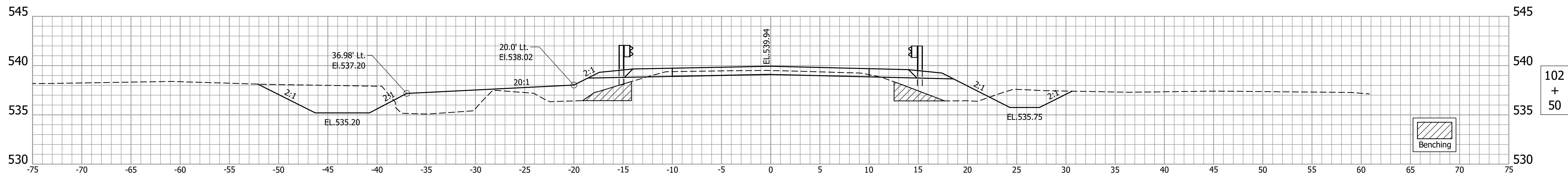
CROSS SECTIONS  
LINE "A"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE CV 250-036-09.30
VERTICAL SCALE 1"=5'	DESIGNATION 1801015
DRAWING NO.	SHEETS 16 of 20
CONTRACT B-41445	PROJECT 1800276

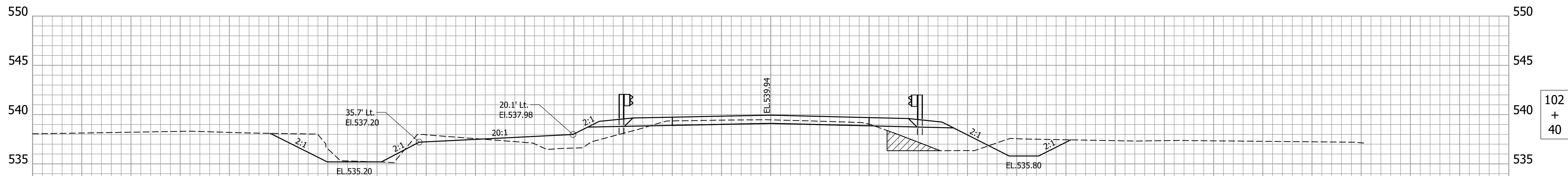




103  
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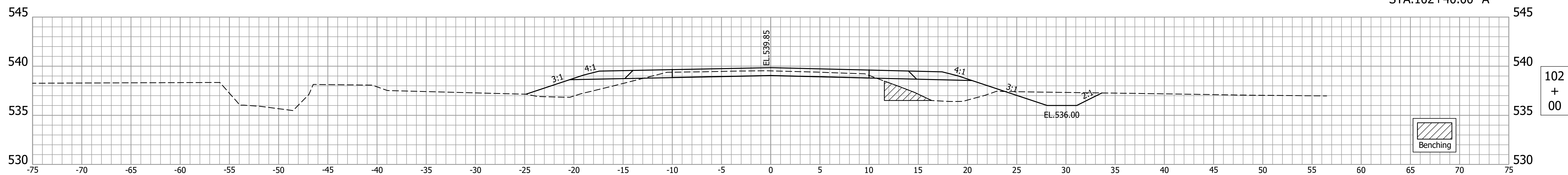


102  
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102  
+  
40

BEGIN CHANNEL WORK  
STA.102+40.00 "A"



102  
+  
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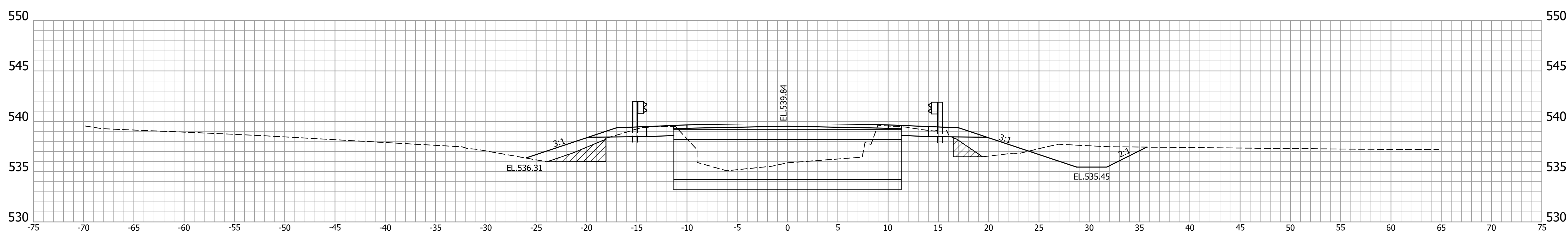
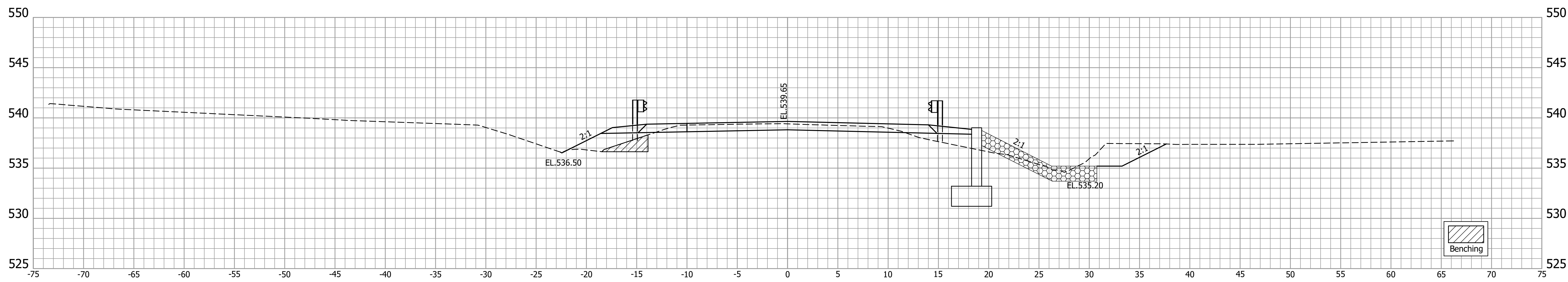
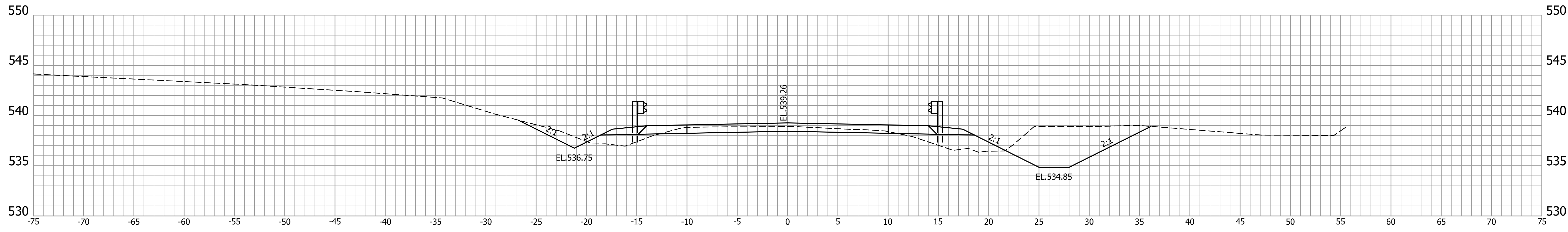
BEGIN PROJECT  
STA.101+55.00 "A"

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: AJC	DRAWN: MEN	
CHECKED: SJM	CHECKED: AJC	

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "A"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE CV 250-036-09.30
VERTICAL SCALE 1"=5'	DESIGNATION 1801015
DRAWING NO.	SHEETS 17 of 20
CONTRACT B-41445	PROJECT 1800276

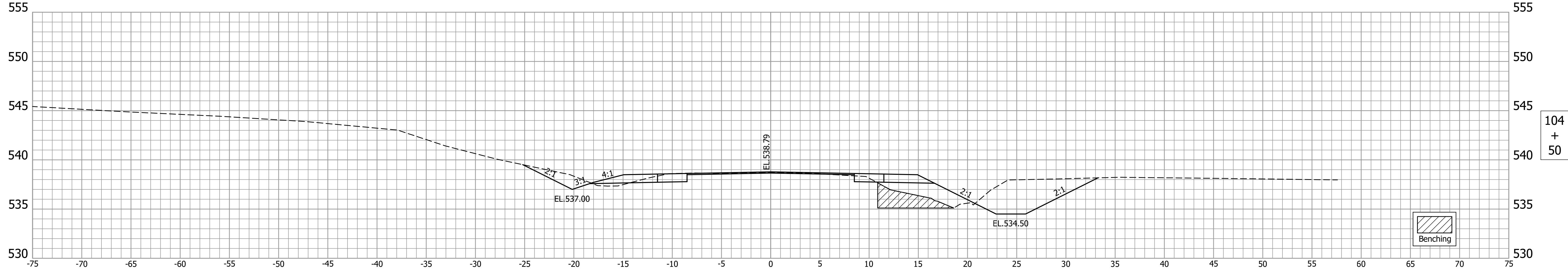
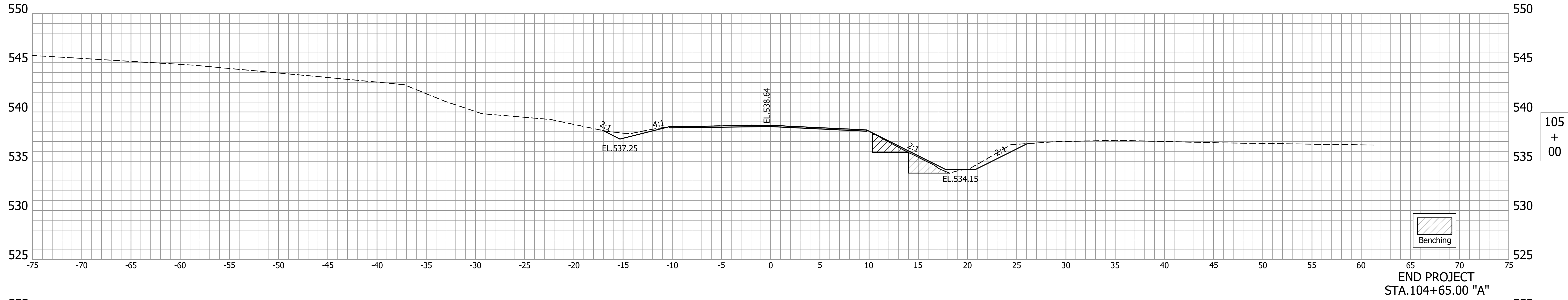
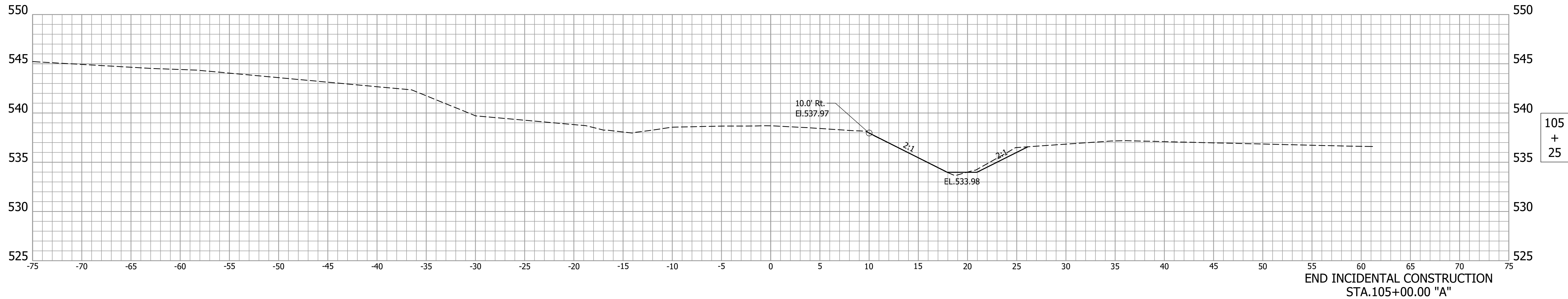


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INDIANA  
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**CROSS SECTIONS  
LINE "A"**

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VERTICAL SCALE 1"=5'	DESIGNATION 1801015
DRAWING NO.	SHEETS 18 of 20
CONTRACT B-41445	PROJECT 1800276

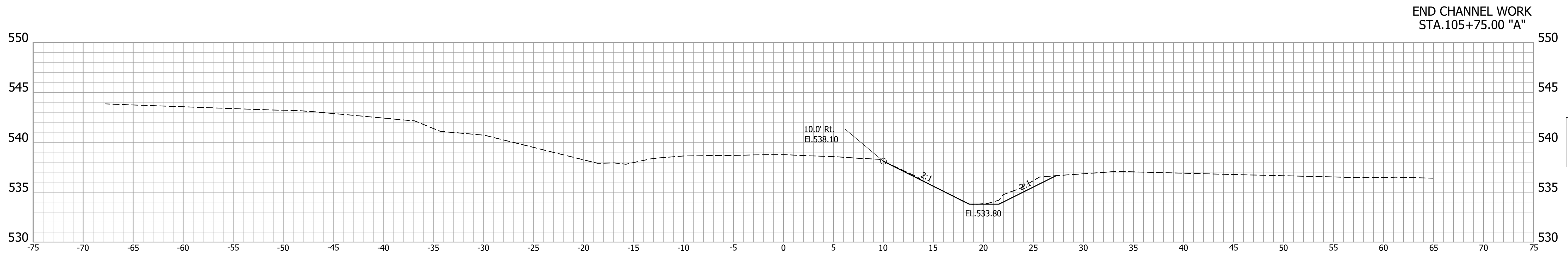


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CHECKED: SJM	CHECKED: AJC	

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "A"

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VERTICAL SCALE 1"=5'	DESIGNATION 1801015
DRAWING NO.	SHEETS 19 of 20
CONTRACT B-41445	PROJECT 1800276



105  
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: AJC _____	DRAWN: MEN _____	
CHECKED: SJM _____	CHECKED: AJC _____	

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
LINE "A"**

HORIZONTAL SCALE 1"=5'	BRIDGE FILE CV 250-036-09.30
VERTICAL SCALE 1"=5'	DESIGNATION 1801015
DRAWING NO.	SHEETS
	20 of 20
CONTRACT B-41445	PROJECT 1800276