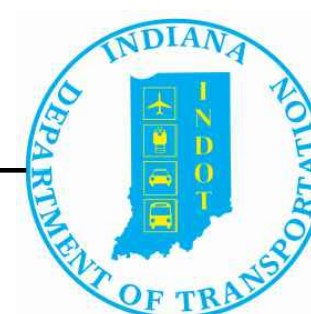


PROJECT	DESIGNATION NO.
1600873	1700168
CONTRACT	BRIDGE FILE
R-39905	056-88-10260

INDIANA DEPARTMENT OF TRANSPORTATION



STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
056-88-10260	Continuous Reinforced Haunched Concrete Slab Bridge	2 Spans: 46'-9", 46'-9" Skew: Square	Brock Creek	134+54 "SR56"

TRAFFIC DATA	S.R. 56
A.A.D.T. 2021	15,120 V.P.D.
A.A.D.T. 2041	16,880 V.P.D.
D.H.V. 2041	1,530 V.P.H.
DIRECTIONAL DISTRIBUTION	49%
TRUCKS	3% D.H.V. 5% A.A.D.T.
DESIGN DATA	S.R. 56
DESIGN SPEED	30 MPH
PROJECT DESIGN CRITERIA	4R (Non-Freeway)
FUNCTIONAL CLASSIFICATION	Urban Arterial
RURAL/URBAN	Urban (Built-Up)
TERRAIN	Level
ACCESS CONTROL	None

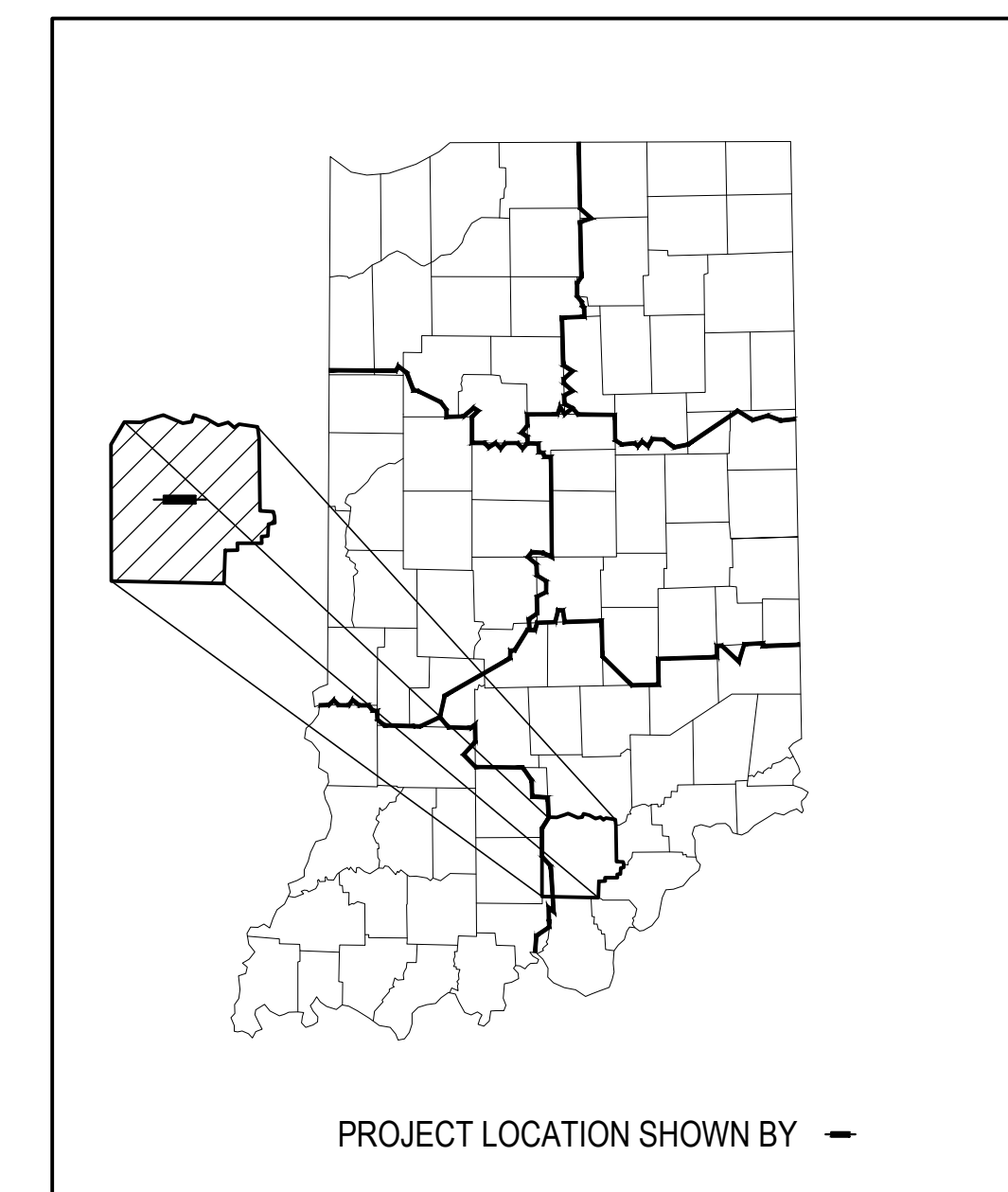
KINNED PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
1600873	SR56 PAVEMENT REPLACEMENT PROJECT (LEAD DES. NO.)
1600875	SR135 PAVEMENT RESURFACING PROJECT

BRIDGE PLANS FOR SPANS OVER 20 FEET

ROUTE: SR56
PROJECT NO.

AT: RP 98+84
1600873 P.E.
1600873 R/W
1600873 CONST.

BRIDGE REPLACEMENT ON SR 56 OVER BROCK CREEK
LOCATED 0.25 MILES WEST OF SR 135
SECTION 17, T-2-N, R-4-E, WASHINGTON TOWNSHIP, WASHINGTON COUNTY

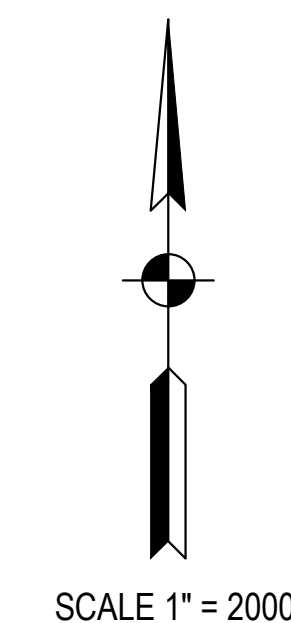
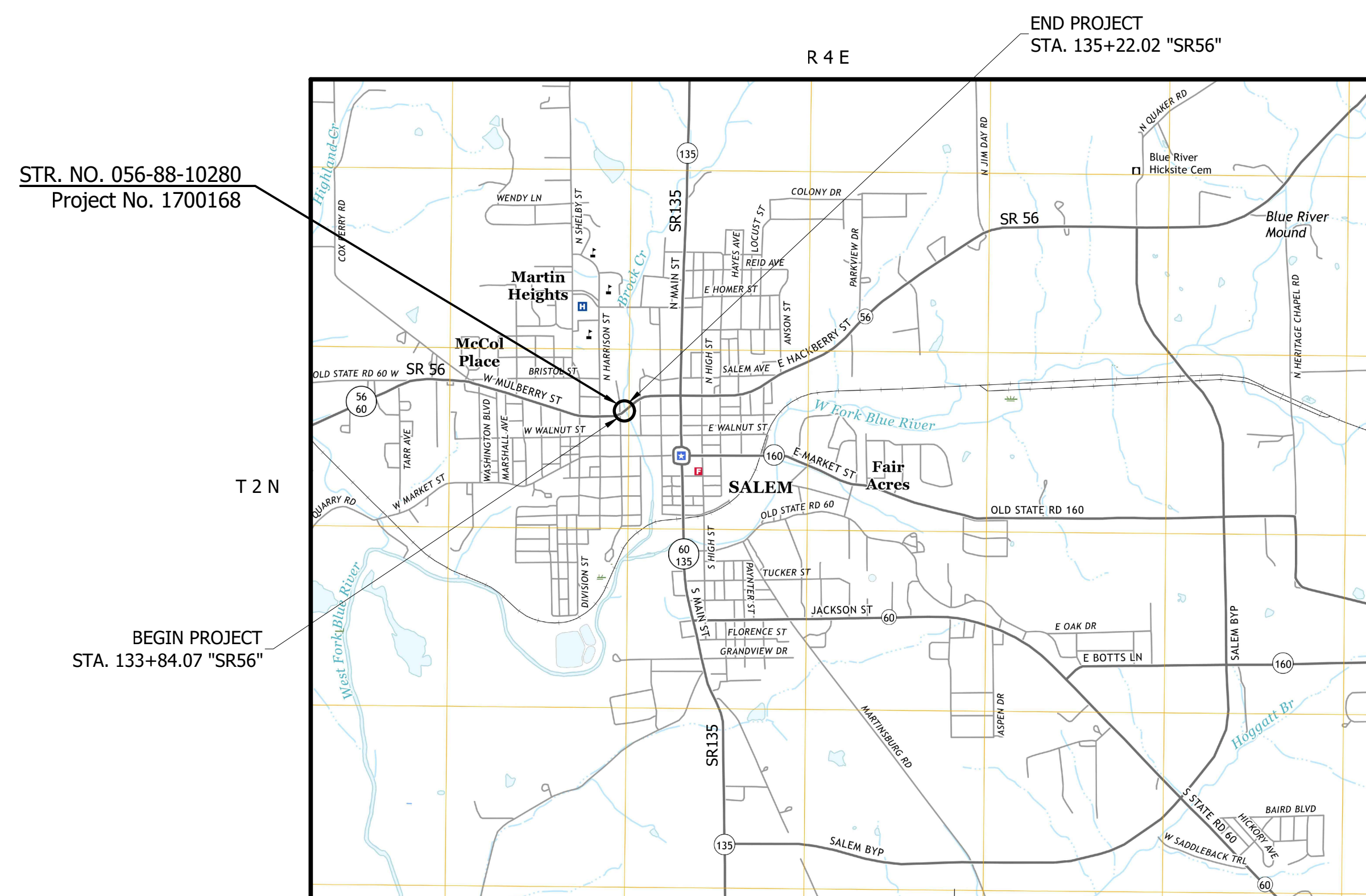


LATITUDE: 38°36'28.7" N LONGITUDE: 86°06'15.5" W

BRIDGE LENGTH = 0.018 mi.
ROAD LENGTH = 0.008 mi.
TOTAL LENGTH = 0.026 mi.
MAX. GRADE = -4.18%

HUC: 05140104120020

STAGE 2 PLANS 5-24-19



LOCATION MAP

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS



NOT FOR CONSTRUCTION

PLANS PREPARED BY:	USI Consultants, Inc.	317-544-4996
		PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:		DATE
	INDIANA DEPARTMENT OF TRANSPORTATION	

BRIDGE NO.	056-88-10260
DESIGNATION NO.	1700168
SHEETS	1 of 17
PROJECT NO.	1600873
CONTRACT	R-39905

UTILITIES

Electric: Duke Energy Indiana, Inc.
1619 W. Defenbaugh
Kokomo, IN 46902
PH.: 317-736-2018
FAX:765-454-6581
Contact: Tim Umbaugh
connie.maus@duke-energy.com

Cable: Insight Communications (SW District)
1900 N. Fares Avenue
Evansville, IN 47711
PH.: 812-253-2736
FAX:812-909-0293
Contact: Scott Dotson
dotson.s@insightcom.com

Electric: Jackson County REMC
274 E. Base Road
Brownstown, IN 47220
PH.: 812-358-4458
FAX:812-358-1788
Contact: Brad Pritchett
bpritchett@jacksonremc.com

Water: Salem, City of
201 East Market Street
Salem, IN 47167
PH.: 812-883-3937
FAX:812-883-0515
Contact: Russell Brown
russell.brown@cityofsalemin.com

Telephone: Frontier Communications of Indiana
221 W. Washington St.
Fairmount, IN 46928
PH.: 765-436-2206
FAX:765-436-7979
Contact: Dan White
daniel.white@frontiercorp.com

Water: East Washington Rural Water Corporation
PO Box 401
Salem, IN 47167
PH.: 812-883-6429
FAX:812-883-2983
Contact: Mike Boling
ewrw@blueriver.net

Gas: Midwest Natural Gas Corporation
P.O. Box 520
Washington, IN 47501
PH.: 812-254-5087
FAX:812-254-4943
Contact: Arthur Campbell
acampbell@midnatgas.com

Sewer: Salem, City of
201 East Market Street
Salem, IN 47167
PH.: 812-883-3937
FAX:812-883-0515
Contact: Tom Voyles
clerk.treasurer@cityofsalemin.com

Fiber-Optic: Mainstream Fiber Networks
4588 Old State Road 46
P.O.Box 753
Nashville, IN 47448
PH.: 812-720-9423
FAX: 812-720-9141

INDEX

SHEET NO.	SUBJECT
1	TITLE SHEET
2	INDEX SHEET
3	TYPICAL CROSS SECTIONS (FOR INFORMATION ONLY)
4-5	MAINTENANCE OF TRAFFIC (FOR INFORMATION ONLY)
6	PLAN SR56 (FOR INFORMATION ONLY)
7	PROFILE SR56 (FOR INFORMATION ONLY)
8-9	SOIL BORINGS
10	BRIDGE LAYOUT
11	GENERAL PLAN
12	ROAD AND BRIDGE SUMMARY
13-17	CROSS SECTIONS - LINE "SR56" (FOR INFORAMTION ONLY)

REVISIONS

SHEET NO.	DATE	REVISED

NOT FOR CONSTRUCTION

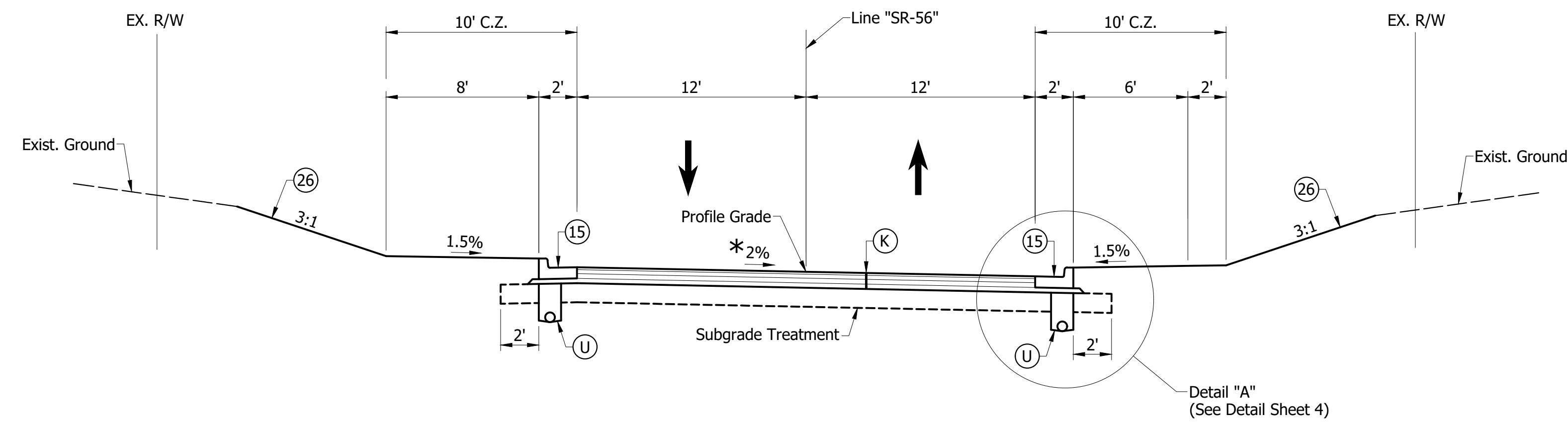
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER	DATE
DESIGNED: MJH	DRAWN: DWB	
CHECKED: BMA	CHECKED: MJH	

INDIANA DEPARTMENT OF TRANSPORTATION

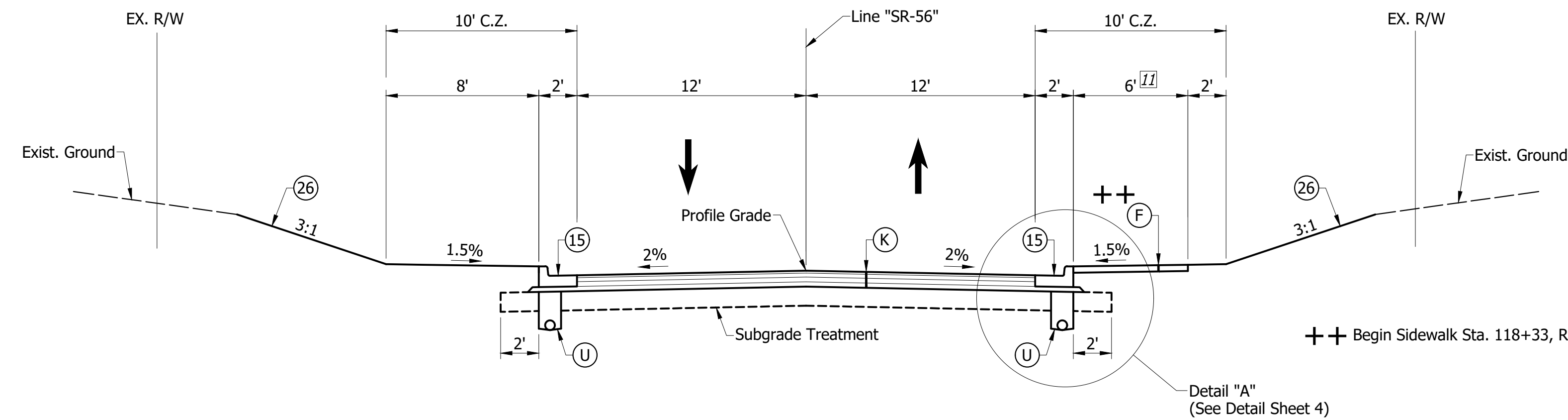
INDEX SHEET

HORIZONTAL SCALE NONE	BRIDGE FILE 056-88-10260
VERTICAL SCALE NONE	DESIGNATION 1700168
SURVEY BOOK ----	SHEETS 2 of 17
CONTRACT R-39905	PROJECT 1600873

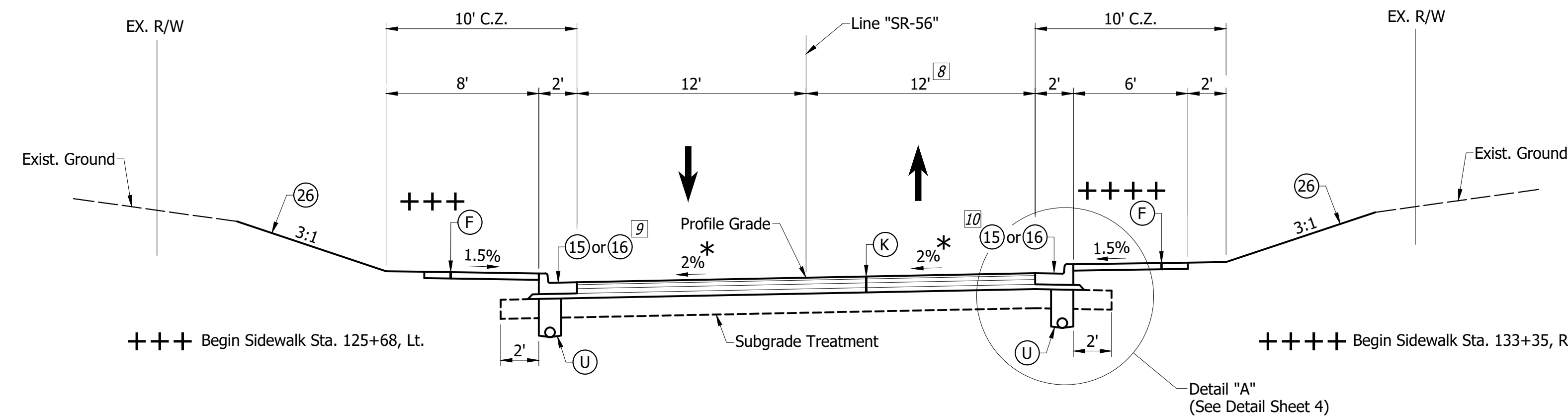
S:\2017\03\17\446 SR 56 Bridge Salem 1700168\Bridges\Bridge Plans\2017-446 Index Sheet.dwg, Index Sheet, 5/22/2017 7:57:42 AM



TYPICAL CROSS SECTION LINE "SR-56"
Sta. 104+50.00 to 106+26.00 "SR-56"



TYPICAL CROSS SECTION LINE "SR-56"
Sta. 106+26.00 to 123+62.00 "SR-56"
Sta. 127+84.00 to 130+63.00 "SR-56"



TYPICAL CROSS SECTION LINE "SR-56"
Sta. 123+62.00 to 127+84.00 "SR-56"
Sta. 130+63.00 to 133+84.07 "SR-56"
Sta. 135+22.02 to 135+63.00 "SR-56"

LEGEND

- (K) HMA Full Depth Pavement
xxx#/Syd. QC/QA-HMA, 2, 64, Surface 9.5 mm on
xxx#/Syd. QC/QA-HMA, 2, 64, Intermediate 19.0 mm on
xxx#/Syd. QC/QA-HMA, 2, 64, Base 19.0 mm on
xxx#/Syd. QC/QA-HMA, 2, 64, Base 19.0 mm
- (F) Sidewalk, Concrete
- (U) Underdrain
- (15) Modified Combined Concrete Curb and Gutter (1.5' Gutter)
- (16) Combined Concrete Curb and Gutter, Type "C"
- (26) Sodding, Nursery

- Notes:
C.Z. = Clear Zone
* See Superelevation Diagram
- [8] Varies from 12' @ Sta. 132+49.51 to 14' @ Sta. 133+33.37 "SR-56"
Varies from 14.31' @ Sta. 135+22.02 to 12' @ Sta. 135+71.50 "SR-56"
 - [9] Combined Concrete Curb and Gutter, Type "C"
From Sta. 133+63.96 to 135+46.00 "SR-56" Lt.
 - [10] Combined Concrete Curb and Gutter, Type "C"
From Sta. 133+33.37 "SR-56" Rt. to 133+84.07 "SR-56" Rt.
From Sta. 135+22.02 "SR-56" Rt. to 136+89.81 "PR-1" Rt.
 - [11] 4' From Sta. 110+35 to 110+66 "SR-56" Rt.

FOR INFORMATION ONLY

NOT FOR CONSTRUCTION

DESIGNED: JGP	DRAWN: JGP
CHECKED: GRW	CHECKED: GRW

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
S.R. 56

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1600873
SURVEY BOOK	SHEETS 3 of 17
CONTRACT R-39905	PROJECT 1600873

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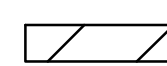


FOR INFORMATION ONLY

PHASE 1C CONSTRUCTION SEQUENCE

1. Install phase 1C signs as shown on plans.
2. Construct proposed storm sewer, main line pavement, street approaches drives, and sidewalks from Sta. 112+80.00 to Sta. 133+84.07 "SR 56".

Notes: 1. Access to all drives must be maintained.

LEGEND

-  Phase Construction
-  Construction Sign
-  Type III-B Barricade

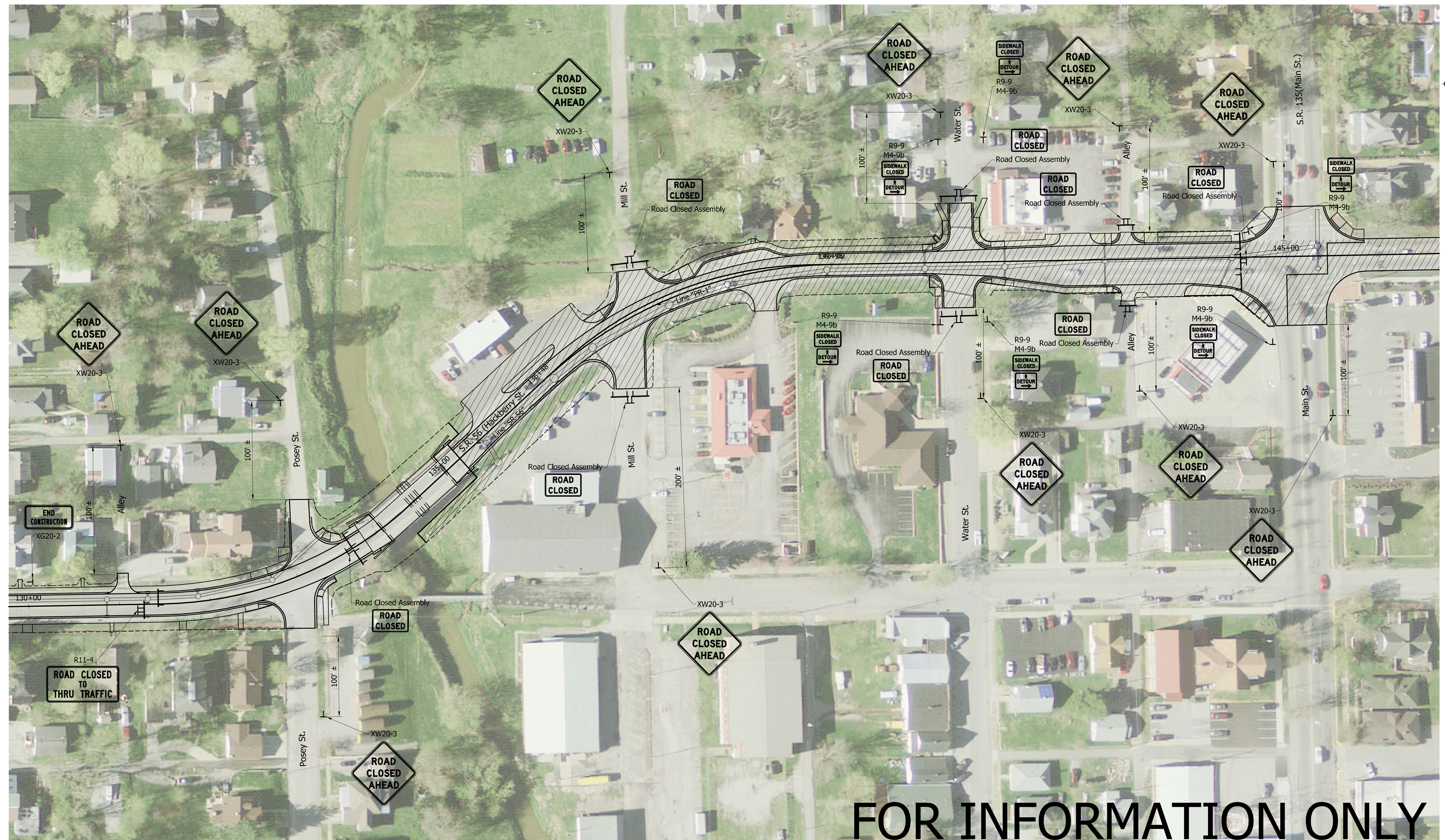
NOT FOR CONSTRUCTION

DESIGNED: _____ BDC	DRAWN: _____ BDC
CHECKED: _____ GRW	CHECKED: _____ GRW

INDIANA
DEPARTMENT OF TRANSPORTATION

TRAFFIC MAINTENANCE
PHASE 1C

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 50'	DESIGNATION 1600873
SURVEY BOOK	SHEETS 4 of 17
CONTRACT R-39905	PROJECT 1600873



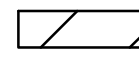


FOR INFORMATION ONLY

PHASE 1D CONSTRUCTION SEQUENCE

1. Install phase 1D signs as shown on plans.
2. Construct proposed storm sewer, main line pavement, street approaches drives, and sidewalks from Sta. 135+22.02 to Sta. 144+39.66 "SR 56". Mill and resurface from Sta. 144+39.66 to Sta. 148+54.00 "SR 56".

Notes: 1. Access to all drives must be maintained.

LEGEND

-  Phase Construction
-  Construction Sign
-  Type III-B Barricade

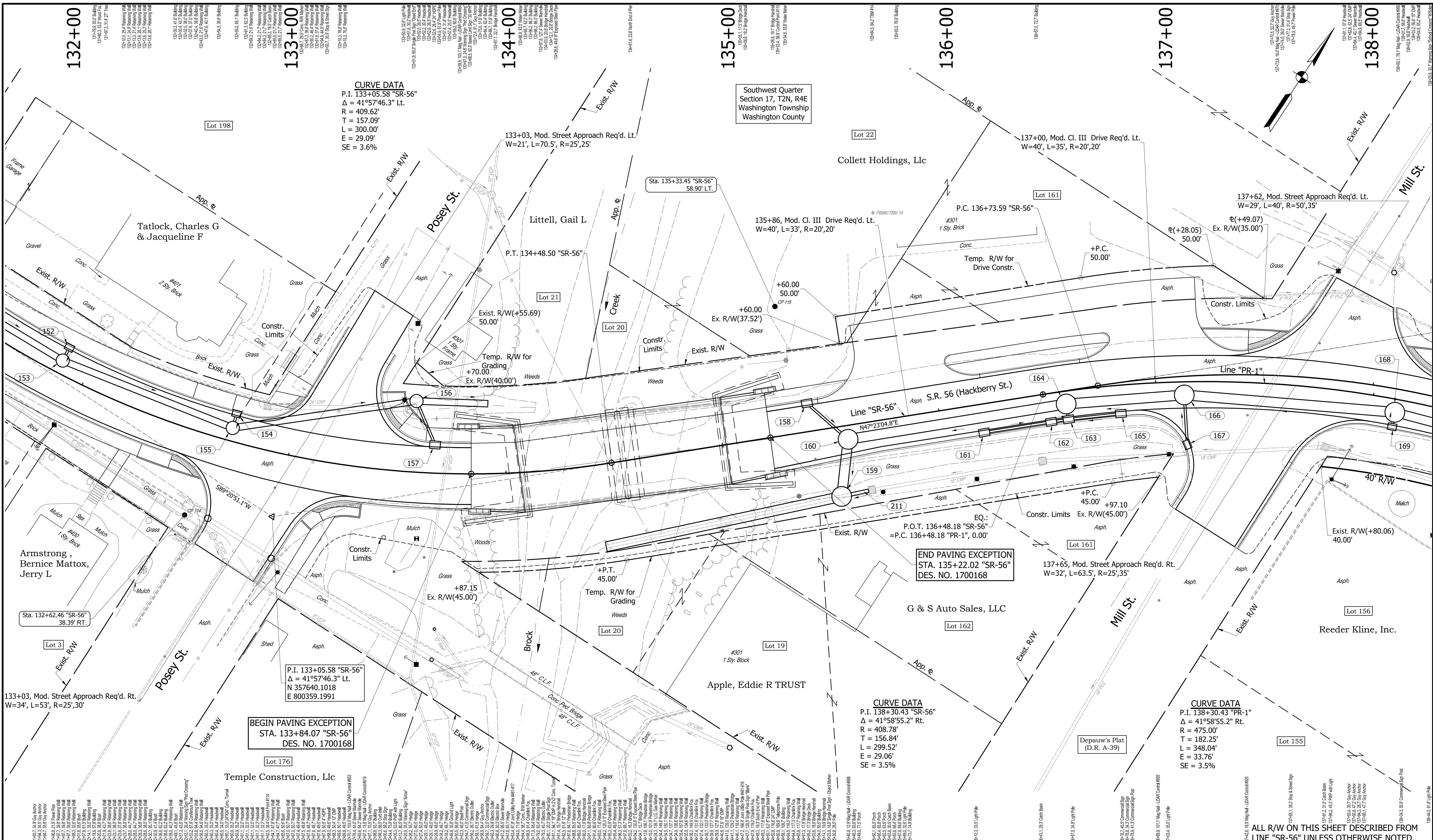
NOT FOR CONSTRUCTION

DESIGNED: _____ BDC	DRAWN: _____ BDC
CHECKED: _____ GRW	CHECKED: _____ GRW

INDIANA
DEPARTMENT OF TRANSPORTATION

TRAFFIC MAINTENANCE
PHASE 1D

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 50'	DESIGNATION 1600873
SURVEY BOOK	SHEETS 5 of 17
CONTRACT R-39905	PROJECT 1600873



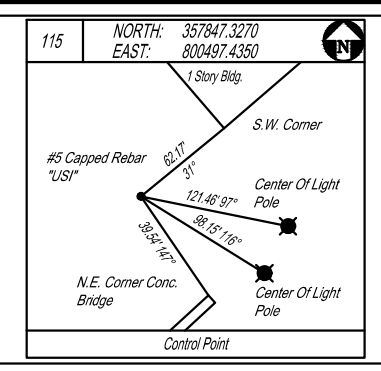
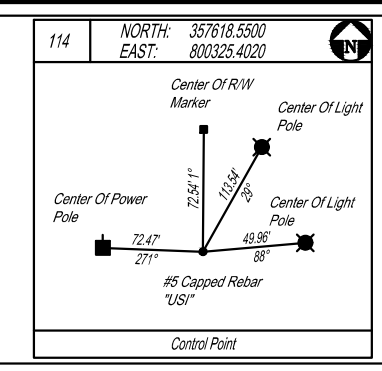
CURVE DATA
 P.I. 133+05.58 "SR-56"
 $\Delta = 41^\circ 57' 46.3''$ Lt.
 R = 409.62'
 T = 157.09'
 L = 300.00'
 E = 29.09'
 SE = 3.6%

BEGIN PAVING EXCEPTION
 STA. 133+84.07 "SR-56"
 DES. NO. 1700168

END PAVING EXCEPTION
 STA. 135+22.02 "SR-56"
 DES. NO. 1700168

CURVE DATA
 P.I. 138+30.43 "SR-56"
 $\Delta = 41^\circ 58' 55.2''$ Rt.
 R = 475.00'
 T = 182.25'
 L = 348.04'
 E = 33.76'
 SE = 3.5%

FOR INFORMATION ONLY



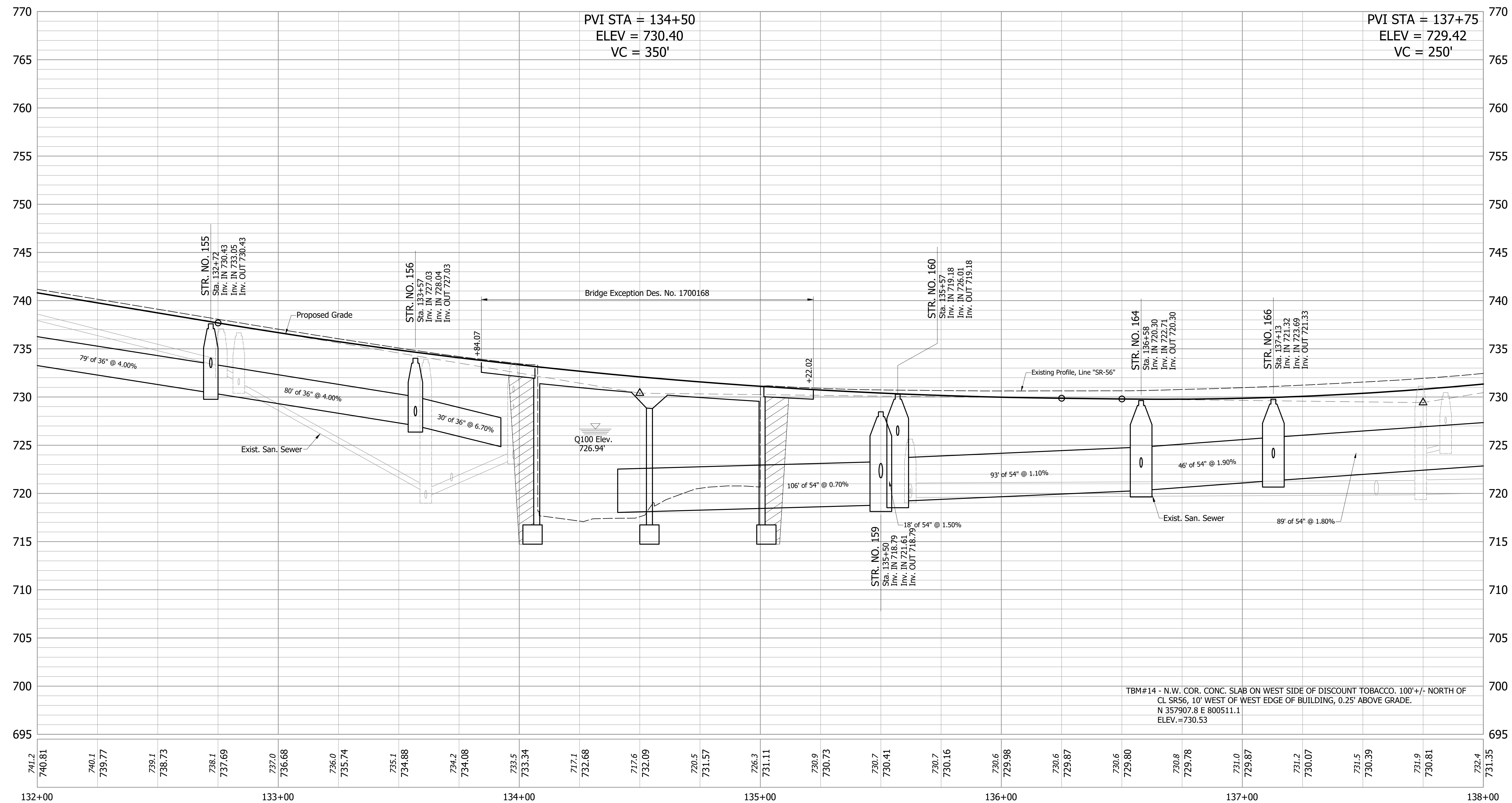
NOT FOR CONSTRUCTION

DESIGNED:	JGP	DRAWN:	JGP
CHECKED:	GRW	CHECKED:	GRW

INDIANA
 DEPARTMENT OF TRANSPORTATION
 PLAN
 S.R. 56

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 20'	1600873
SURVEY BOOK	SHEETS
	6 of 17
CONTRACT	PROJECT
R-39905	1600873

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "SR-56" UNLESS OTHERWISE NOTED.



TBM#14 - N.W. COR. CONC. SLAB ON WEST SIDE OF DISCOUNT TOBACCO. 100'+/- NORTH OF CL SR56, 10' WEST OF WEST EDGE OF BUILDING, 0.25' ABOVE GRADE.
 N 357907.8 E 800511.1
 ELEV. = 730.53

FOR INFORMATION ONLY

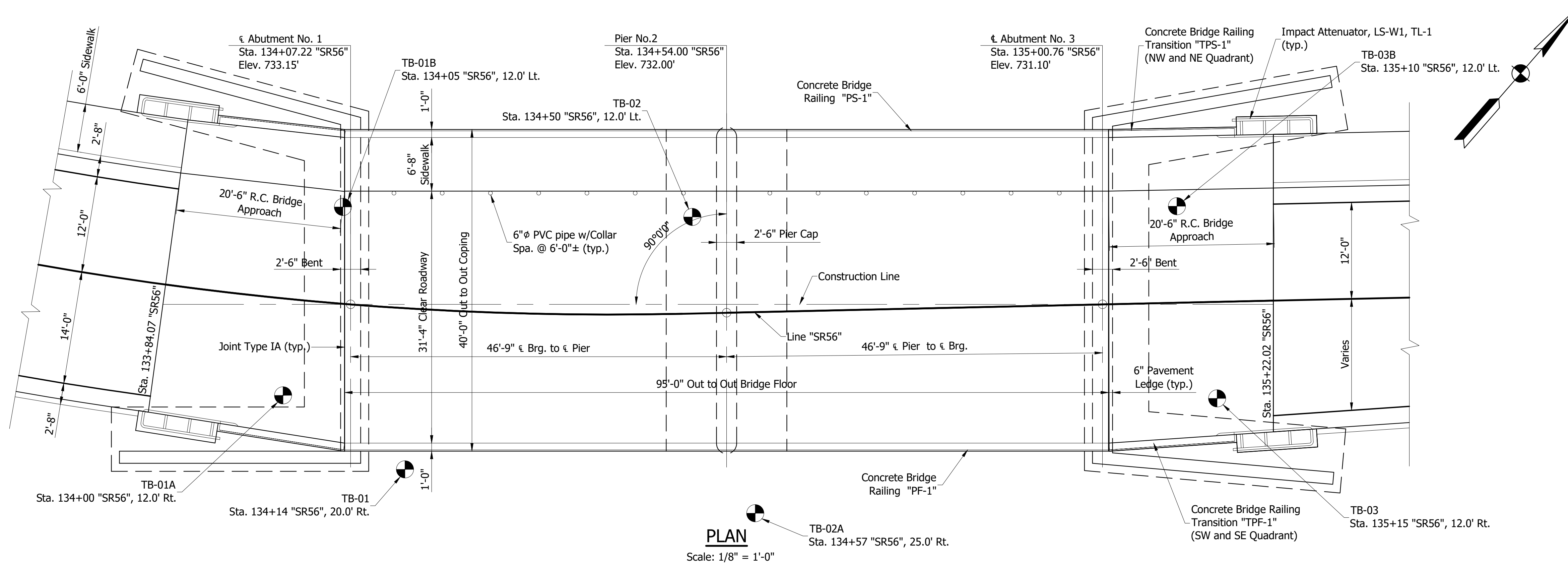
NOT FOR CONSTRUCTION

DESIGNED: JGP	DRAWN: JGP
CHECKED: GRW	CHECKED: GRW

INDIANA
 DEPARTMENT OF TRANSPORTATION

PROFILE
 S.R. 56

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1600873
SURVEY BOOK	SHEETS 7 of 17
CONTRACT R-39905	PROJECT 1600873



SUMMARY OF BEARING CAPACITIES FOR END BENTS AND INTERIOR PIER			
	BENT NO. 1	PIER NO. 2	BENT NO. 3
INSTANTANEOUS ROCK FRICTION ANGLE Φ_1 , DEGREES	50	53.5	50
INSTANTANEOUS ROCK COHESION c , psf	9380	17200	9095
BEARING RESISTANCE FACTOR ϕ_b	0.45	0.45	0.45
SOIL/ROCK TYPE AT BOTTOM OF FOOTING	DOLOMITE	LIMESTONE	DOLOMITE
FACTORED BEARING RESISTANCE q_r , psf	21,500	39,500	21,000
ESTIMATED BOTTOM OF FOOTING ELEVATION (ft)	715.0	713.0	713.0

*THE BOTTOM OF FOOTING SHOULD BE PLACED BELOW SILTSTONE ENCOUNTERED IN TO HARD DOLOMITE BEDROCK BY AT LEAST 1.0 FT.

PLAN
Scale: 1/8" = 1'-0"

INDOT BORING LOG										BORING NO.: TB-01			
GEOTECHNICAL CONSULTANT: K & S Engineers										SHEET 1 OF 1			
DES NO.: 1700168 STRUCTURE #: 056-88-10260										NORTHING: _____			
PROJECT TYPE: Bridge Replacement										EASTING: _____			
LOCATION: Salem										DATE STARTED: 09-13-18			
COUNTY: Washington PROJECT NO.: 1700168										DATE COMPLETED: 09-13-18			
ELEVATION: 733.5 BORING METHOD: Hollow Stem Auger HAMMER: Auto										ATTERBERG LIMITS			
STATION: 134+14 RIG TYPE: D-50 Truck DRILLER/INSP: E.T./S.G.										LL PL PI			
OFFSET: 20.0 ft Right CASING DIA.: _____ TEMPERATURE: 80 °F										REMARKS			
LINE: 'SR56' CORE SIZE: _____ WEATHER: Sunny													
DEPTH: 25.0 ft GROUNDWATER: Encountered at 0 ft At completion 0 ft Caved in at 14.0 ft													
ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT pcf 6"	% RECOVERY	MOISTURE	DRY DENSITY, pcf	POCKET PEN., tsf	UNCONF. COMP., tsf	LL	PL	PI	REMARKS
733.5	0.0	Asphalt (VISUAL)											
	0.5	Crushed Stone (VISUAL)											
730.0	2.5	Silty Clay Loam A-6(11), Reddish Brown And Gray, Moist, Stiff To Very Stiff, (Lab No. 101)	SS 1	4-5.6	89	20.5	1.00						
	6.0		SS 2	7-7.8	100	19.1	3.00						
	7.5		SS 3	7-8.8	83	20.3	2.25			34	19	15	
725.0	10.0		SS 4	7-7.8	89	22.0	2.00						
	12.5	Silty Clay A-6, Reddish Brown, Moist, Stiff To Very Stiff, (Lab No. 103)	SS 5	8-7.9	33	22.0	3.00						
720.0	15.0		SS 6	7-8-10	33	20.7	2.75						
	17.5	Dolomite Gray, Unweathered, Moderately Hard to Hard, (VISUAL)	RC 1	93									15.0, Auger Refusal 15.2, Qu=360.7 Tsf 17.0, Qu=219.6 Tsf
715.0	20.0		RC 2	100									19.0, Qu=373.7 Tsf 21.0, Qu=271.1 Tsf
710.0	22.5	Dolomite Gray, Unweathered, Moderately Hard to Hard, (VISUAL)											23.5, Qu=410.6 Tsf
	25.0												Bottom of Boring at 25.0 ft

INDOT BORING LOG										BORING NO.: TB-01A			
GEOTECHNICAL CONSULTANT: K & S Engineers										SHEET 1 OF 1			
DES NO.: 1700168 STRUCTURE #: 056-88-10260										NORTHING: _____			
PROJECT TYPE: Bridge Replacement										EASTING: _____			
LOCATION: Salem										DATE STARTED: 10-29-18			
COUNTY: Washington PROJECT NO.: 1700168										DATE COMPLETED: 10-29-18			
ELEVATION: 733.5 BORING METHOD: Hollow Stem Auger HAMMER: Auto										ATTERBERG LIMITS			
STATION: 134+00 RIG TYPE: D-50 Truck DRILLER/INSP: E.T./S.G.										LL PL PI			
OFFSET: 12.0 ft Right CASING DIA.: _____ TEMPERATURE: 50 °F										REMARKS			
LINE: 'SR56' CORE SIZE: _____ WEATHER: Sunny													
DEPTH: 14.5 ft GROUNDWATER: Encountered at 0 ft At completion 0 ft Caved in at 12.5 ft													
ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT pcf 6"	% RECOVERY	MOISTURE	DRY DENSITY, pcf	POCKET PEN., tsf	UNCONF. COMP., tsf	LL	PL	PI	REMARKS
733.5	0.0	Asphalt (VISUAL)											
	1.1	Concrete (VISUAL)											
730.0	2.5												
	6.0												
	7.5												
725.0	10.0	Sounding to Bedrock											
	14.5												14.5, Auger Refusal
720.0	16.0	Bottom of Boring at 14.5 ft											

INDOT BORING LOG										BORING NO.: TB-01B			
GEOTECHNICAL CONSULTANT: K & S Engineers										SHEET 1 OF 1			
DES NO.: 1700168 STRUCTURE #: 056-88-10260										NORTHING: _____			
PROJECT TYPE: Bridge Replacement										EASTING: _____			
LOCATION: Salem										DATE STARTED: 10-29-18			
COUNTY: Washington PROJECT NO.: 1700168										DATE COMPLETED: 10-29-18			
ELEVATION: 733.5 BORING METHOD: Hollow Stem Auger HAMMER: Auto										ATTERBERG LIMITS			
STATION: 134+05 RIG TYPE: D-50 Truck DRILLER/INSP: E.T./S.G.										LL PL PI			
OFFSET: 12.0 ft Left CASING DIA.: _____ TEMPERATURE: 50 °F										REMARKS			
LINE: 'SR56' CORE SIZE: _____ WEATHER: Sunny													
DEPTH: 15.0 ft GROUNDWATER: Encountered at 0 ft At completion 0 ft Caved in at 13.5 ft													
ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT pcf 6"	% RECOVERY	MOISTURE	DRY DENSITY, pcf	POCKET PEN., tsf	UNCONF. COMP., tsf	LL	PL	PI	REMARKS
733.5	0.0	Asphalt (VISUAL)											
	1.1	Concrete (VISUAL)											
730.0	2.5												
	6.0												
	7.5												
725.0	10.0	Sounding to Bedrock											
	15.0												15.0, Auger Refusal
720.0	16.0	Bottom of Boring at 15.0 ft											

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL: _____ DATE _____

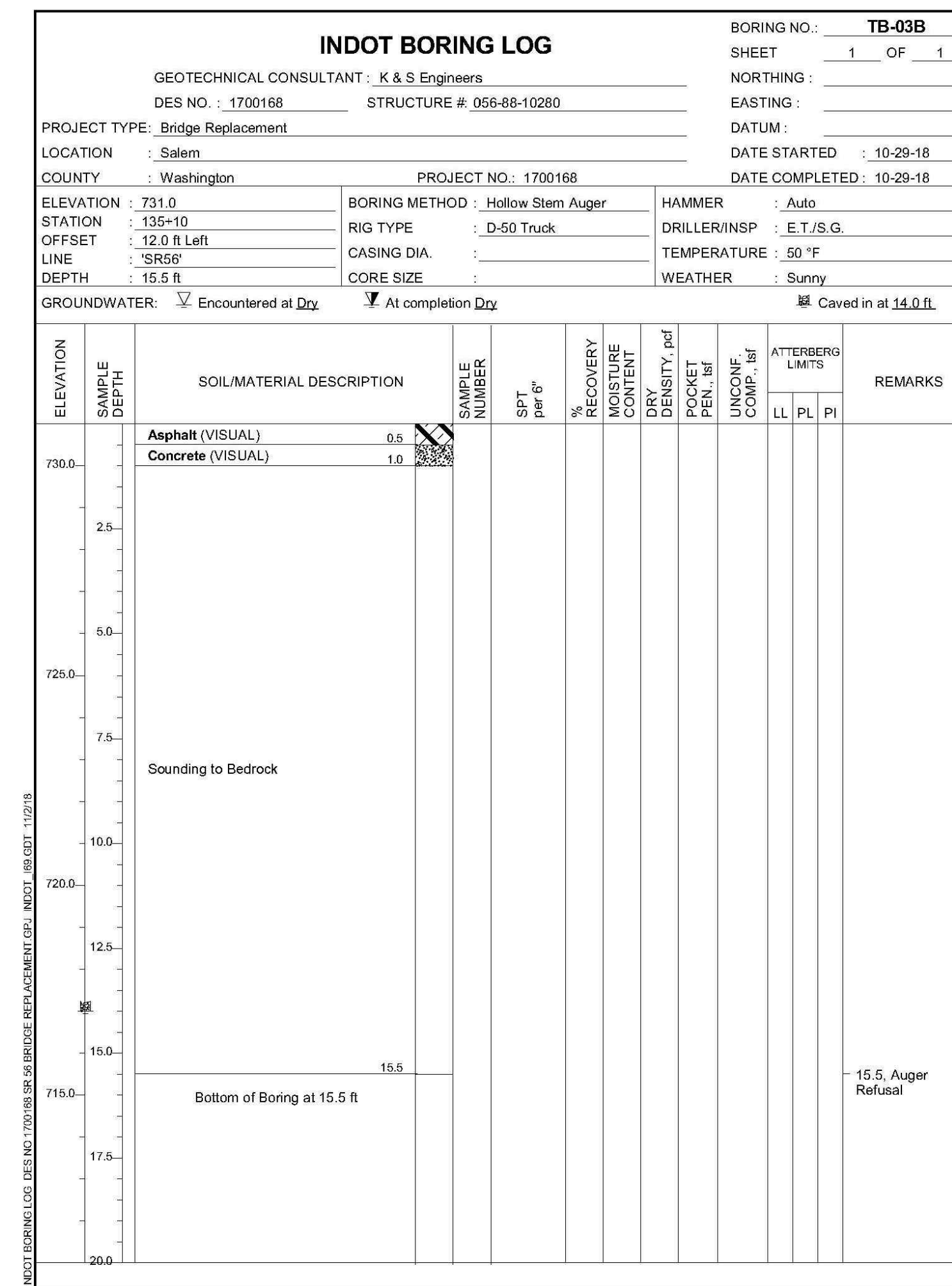
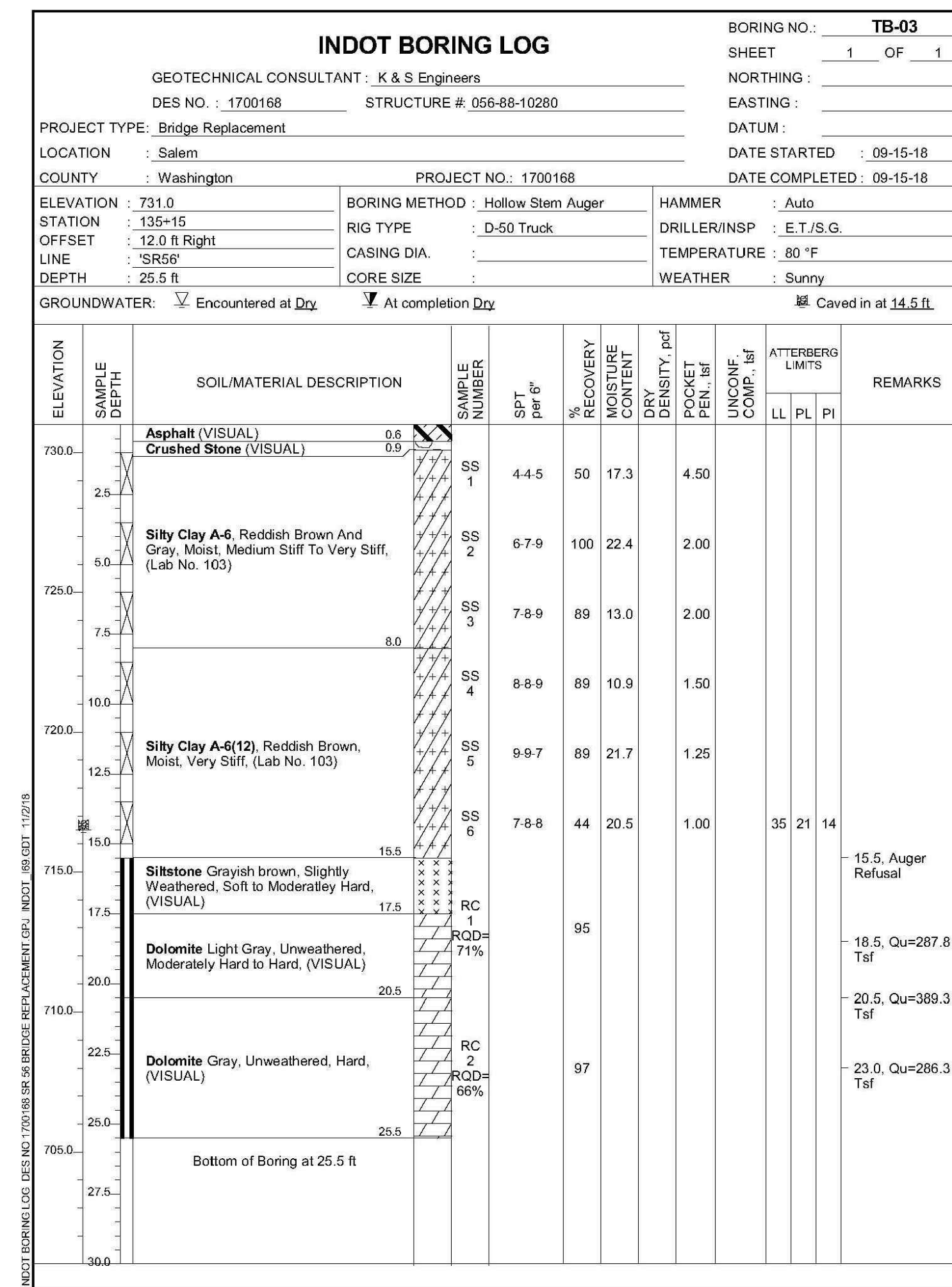
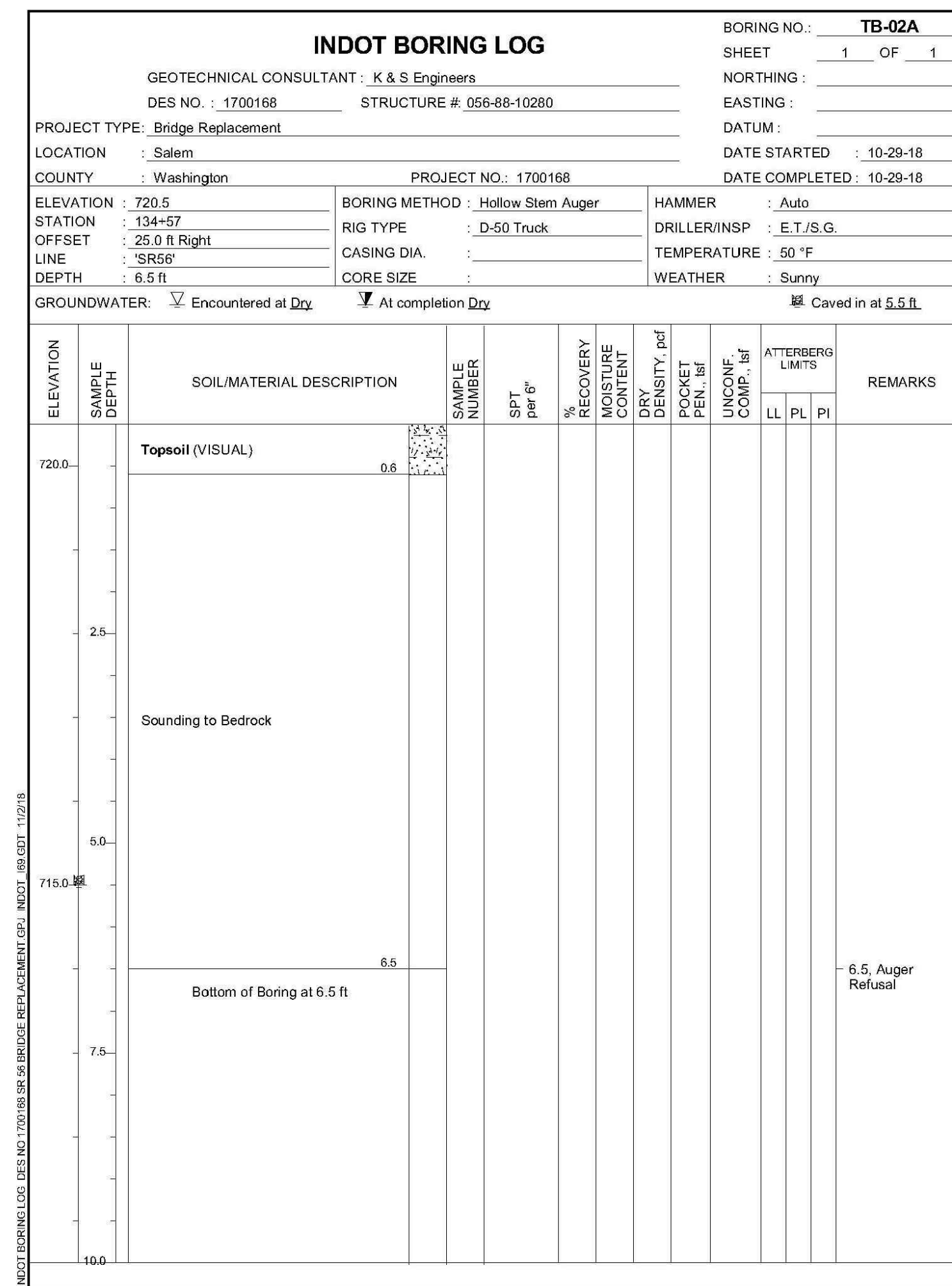
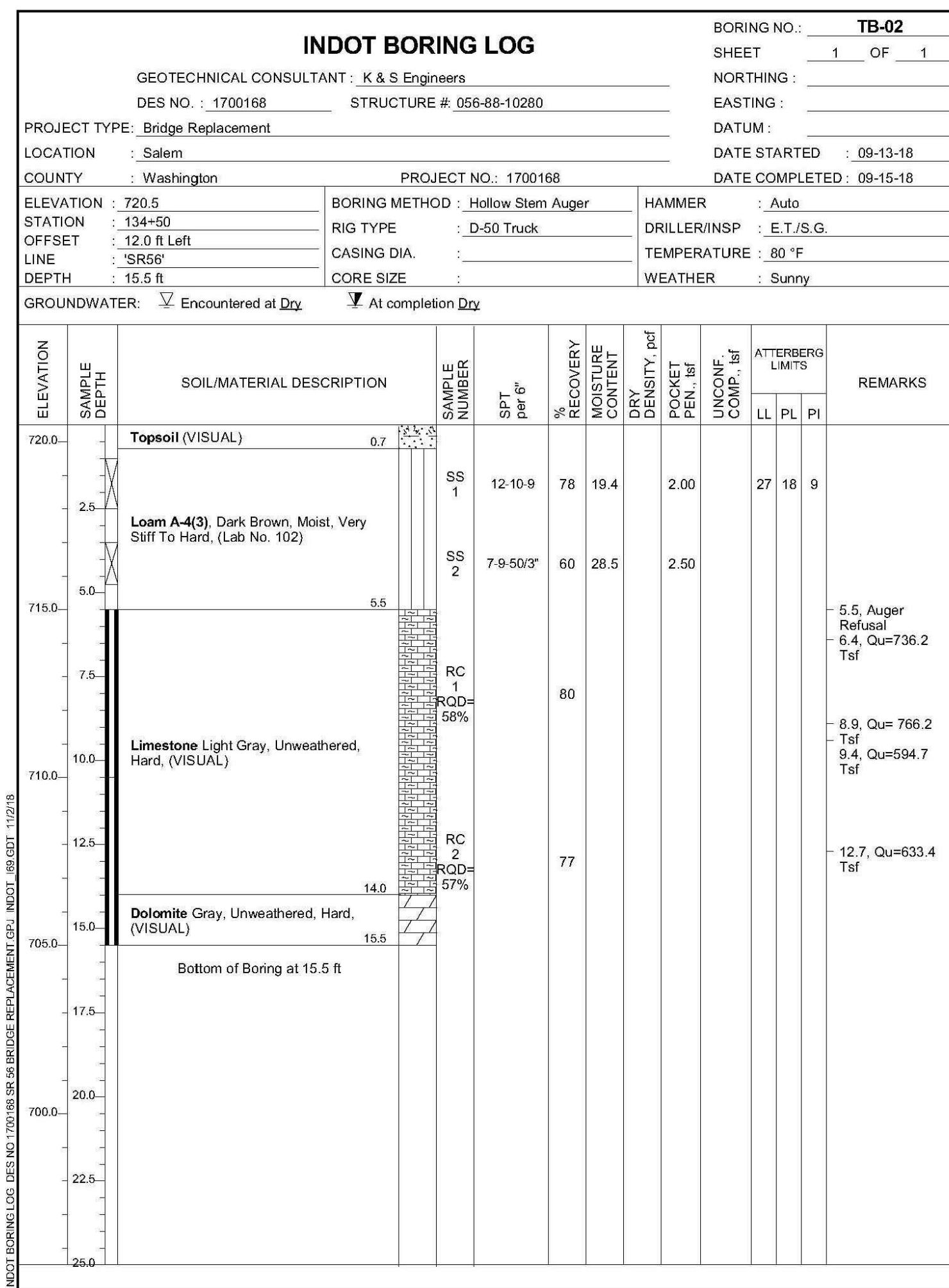
DESIGNED: MJH DRAWN: DWB

CHECKED: BMA CHECKED: MJH

INDIANA DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	056-88-10260
VERTICAL SCALE	DESIGNATION
AS NOTED	1700168
SURVEY BOOK	SHEETS
---	8 of 17
CONTRACT	PROJECT
R-39905	1600873



NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL: _____ DATE _____

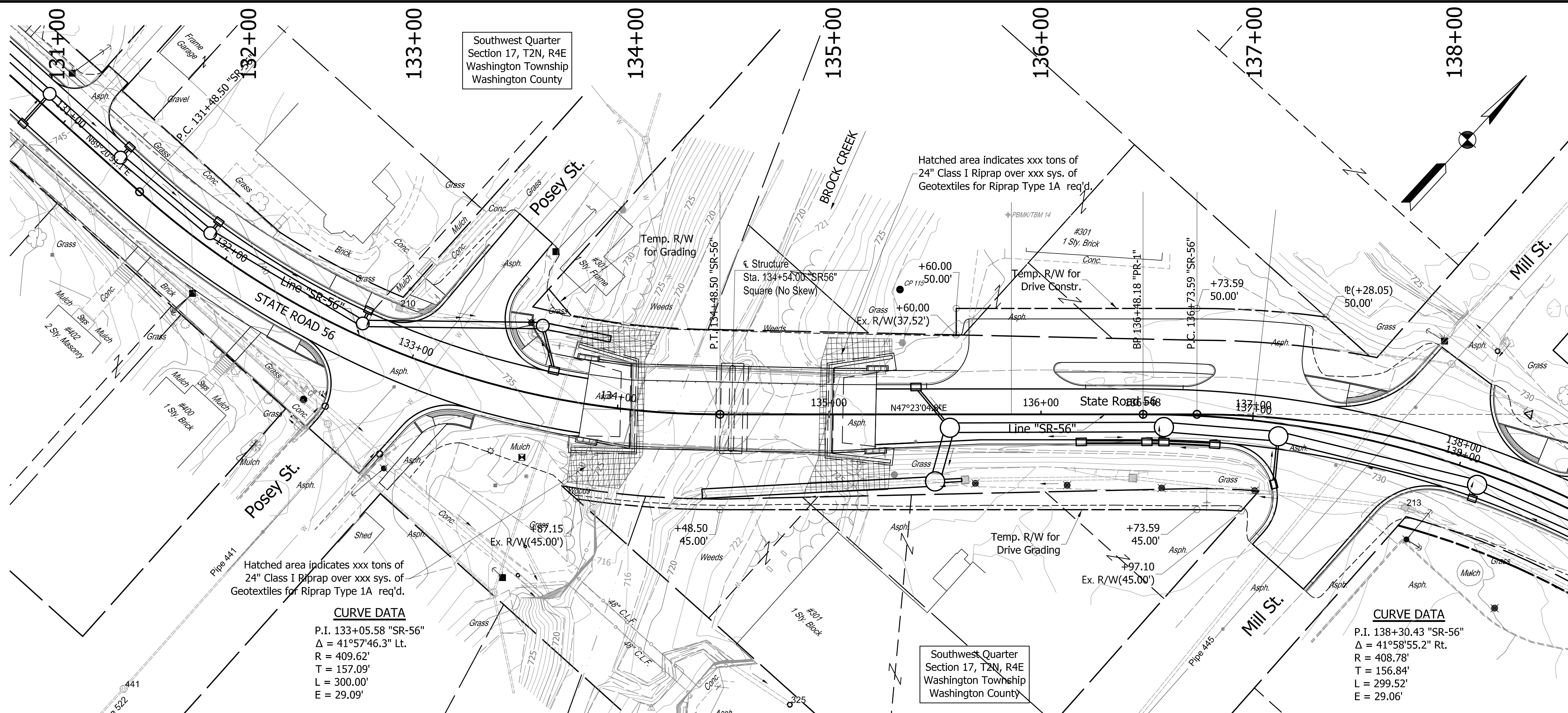
DESIGNED: **MJH** DRAWN: **DWB**

CHECKED: **BMA** CHECKED: **MJH**

INDIANA DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
NONE	056-88-10260
VERTICAL SCALE	DESIGNATION
NONE	1700168
SURVEY BOOK	SHEETS
---	9 of 17
CONTRACT	PROJECT
R-39905	1600873



HYDRAULIC DATA

SITE DATA:
 Drainage Area: = 7.90 sq. mile
 Q100: = 4250 cfs
 Elevation @ Q100: = 726.94 ft.
 Approx. Skew = 0 degrees

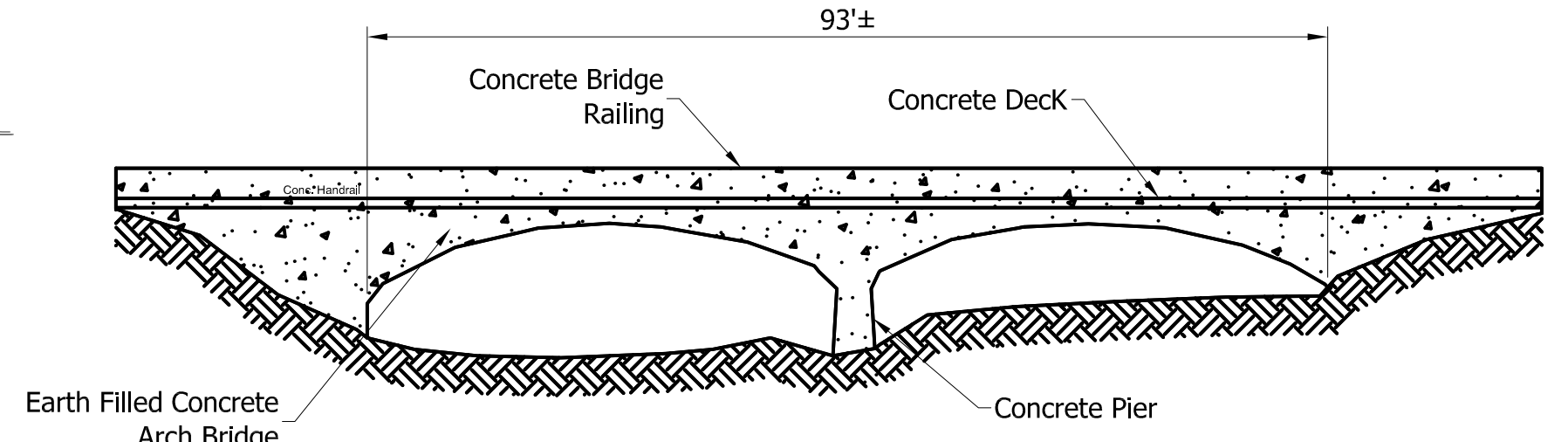
EXISTING STRUCTURE
 Existing Backwater: = 1.02 ft.
 Velocity @ Q100: = 6.70 ft./sec.
 Existing Waterway Opening below Q100 Elev. (Str.): = 629.26 sq. ft.
 Existing Road Overflow Waterway Area: = 0.00 sq. ft.
 Existing Low Structure Elevation: = 729.01 ft.

PROPOSED STRUCTURE
 Backwater: = 0.93 ft.
 Velocity @ Q100: = 6.16 ft./sec.
 Gross Waterway Opening req'd. below Q100 Elev. (Str.): = 683.20 sq. ft.
 Road Overflow Waterway Area below Q100 Elev.: = 0.00 sq. ft.
 Minimum Low Structure Elevation: = 729.01 ft.

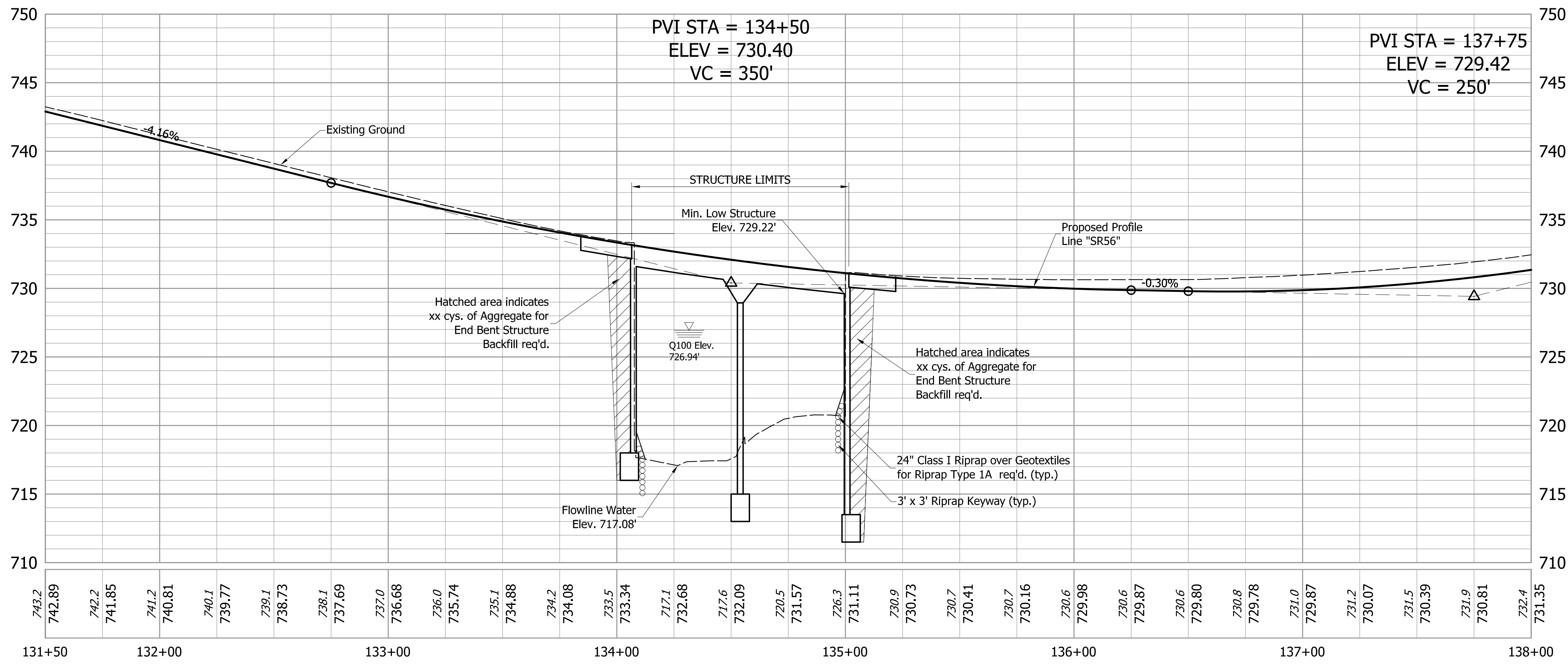
Q100
 Q100 Elevation = 727.01 ft.
 Q100 Contraction Scour: = 5.43 ft.
 Q100 Total Scour: = 10.23 ft.
 Q100 Low Scour Elevation: = 706.52 ft.
 Q100 Max Velocity: = 7.59 ft./sec.

Q500
 Q500 Elevation = 728.18 ft.
 Q500 Contraction Scour: = 7.15 ft.
 Q500 Total Scour: = 11.95 ft.
 Q500 Low Scour Elevation: = 704.85 ft.
 Q500 Max Velocity: = 7.21 ft./sec.

Scour data is based on a flowline of 716.75 ft. and erodible material



EXISTING STRUCTURE
 Not to Scale
 (Two Span Reinforced Concrete Arch Bridge to be removed)



EARTHWORK SUMMARY

Common Excavation	= XX Cys
Fill + 20%	= XX Cys
Waterway Excavation	= XX Cys
Usable Waterway Excavation	= XX Cys
Borrow	= XX Cys
Foundation Excavation	= XX Cys

No direct payment for Benching. Benching to be paid for as Common Excavation.

CONTINUOUS REINFORCED HAUNCHED CONCRETE SLAB BRIDGE
 TWO SPANS @ 46'-9", SQUARE
 31'-4" CLEAR ROADWAY WIDTH
 SR 56 OVER BROCK CREEK
 WASHINGTON COUNTY, INDIANA

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MJH	DRAWN: DWB	
CHECKED: BMA	CHECKED: MJH	

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
1"=30'	056-88-10260
VERTICAL SCALE	DESIGNATION
1"=5'	1700168
SURVEY BOOK	SHEETS
---	10 of 17
CONTRACT	PROJECT
R-39905	1600873

DESIGN DATA

Superstructure and Substructure designed for HL-93 loading, in accordance with AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017, and its subsequent Interim Specifications.

Designed for actual dead load plus 35#/sft. future wearing surface.

Slab designed with 1/2" wearing surface.

UNIT STRESSES:

Class "C" Concrete $F_c = 4000$ p.s.i.
 Class "A" Concrete $F_c = 3500$ p.s.i.
 Class "B" Concrete $F_c = 3000$ p.s.i.
 Reinforcing Steel (Grade 60) $F_y = 60,000$ p.s.i.

GENERAL NOTES:

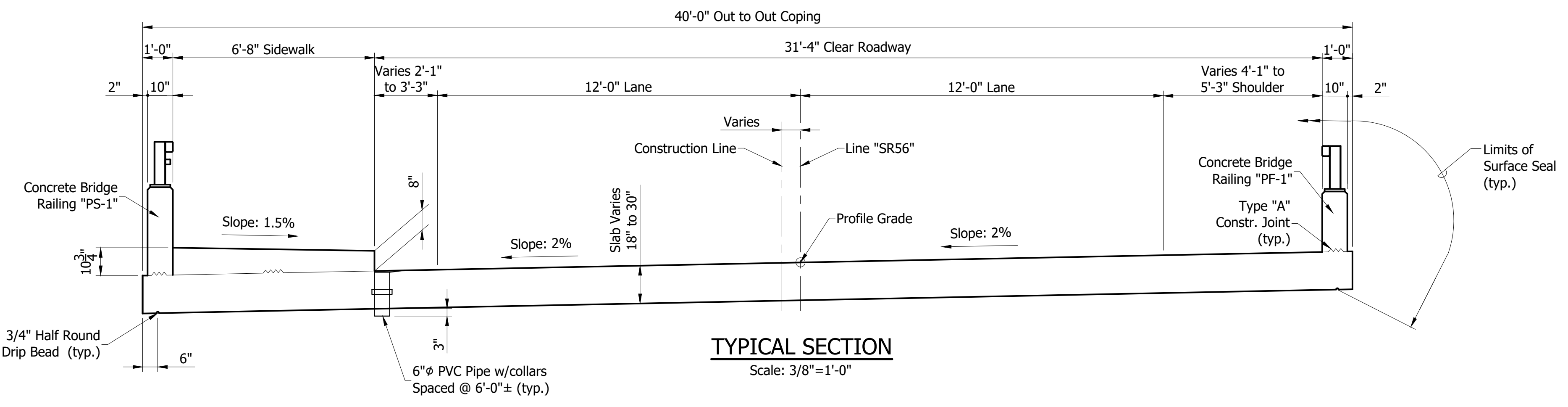
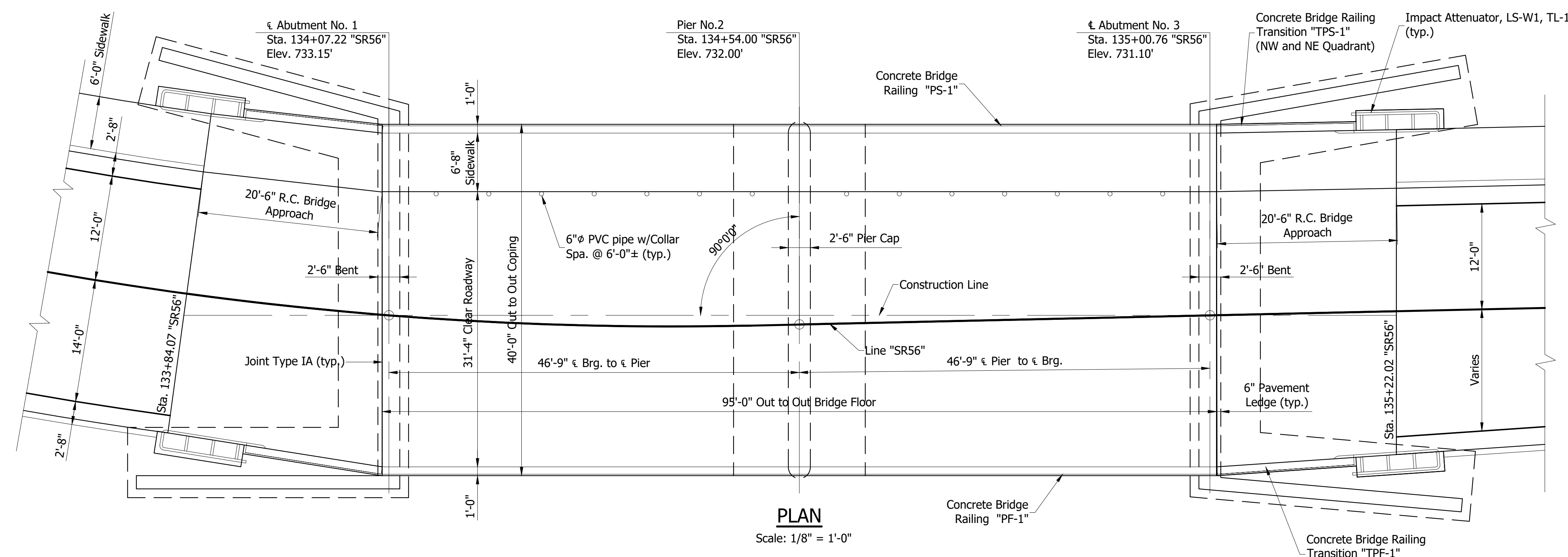
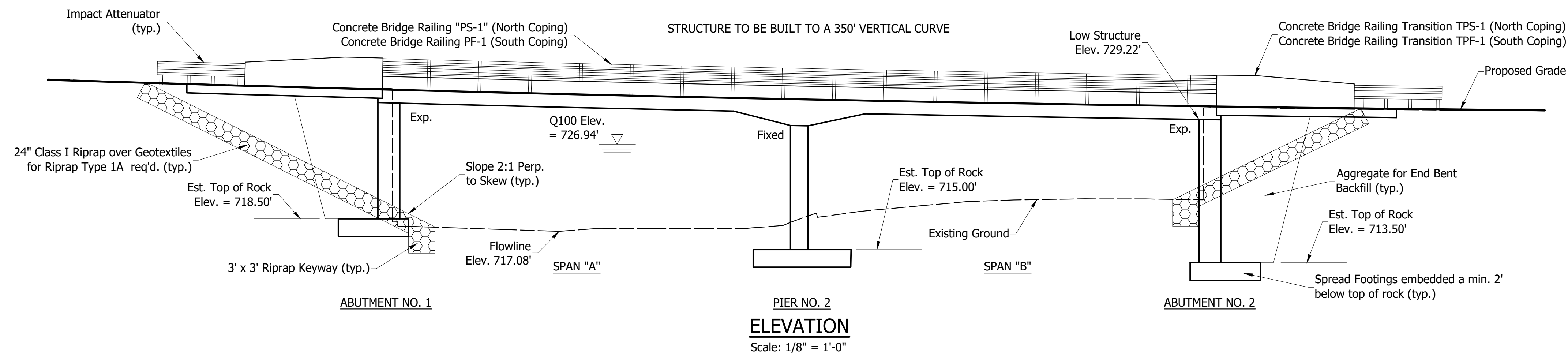
All dimensions are in feet and inches and all elevations are in feet unless otherwise noted.

Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slabs, and 2" in all other parts, unless noted.

Surface Seal the top of bridge floor, face of deck copings, underside of bridge floor from coping to drip bead, exposed pier caps and approach slabs. Estimated Quantity = 5169 Sft.

SEISMIC DESIGN DATA

Seismic Performance Zone Zone 1
 Acceleration Coefficient $Sp1=0.112$
 Seismic Soil Profile Type Class D



CONTINUOUS REINFORCED HAUNCHED CONCRETE SLAB BRIDGE
 TWO SPANS @ 46'-9", SQUARE
 31'-4" CLEAR ROADWAY WIDTH
 SR 56 OVER BROCK CREEK
 WASHINGTON COUNTY, INDIANA

NOT FOR CONSTRUCTION	RECOMMENDED FOR APPROVAL: _____ DATE _____	
	DESIGNED: MJH	DRAWN: DWB
	CHECKED: BMA	CHECKED: MJH

INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN	

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	056-88-10260
VERTICAL SCALE	DESIGNATION
AS NOTED	1700168
SURVEY BOOK	SHEETS
----	11 of 17
CONTRACT	PROJECT
R-39905	1600873

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SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE			CONCRETE RAILING CLASS C		REINF. STEEL	EPOXY COATED REINF. STEEL	PILES								SURFACE SEAL **	DENSE GRADED SUBBASE	R.C. BRIDGE APPROACH (12")	EPOXY COATED THREADED TIE BAR ASSEMBLIES	CONC. STR. MEMBERS		CONCRETE BRIDGE RAILING TRANSITION, TPS-1	CONCRETE BRIDGE RAILING TRANSITION, TPF-1	RAILING, PS-1	RAILING, PF-1	AGGREGATE END BENT BACKFILL	
	CLASS C	CLASS A	CLASS B IN FTG.					HP12 x 53 STEEL "H"	14"Ø CONC. STEEL SHELL ENCASED EPOXY COAT.	TEST PILE INDICATOR PRODUCTION 14"Ø SEC	TEST PILE INDICATOR RESTRIKE	STEEL H REINF. CONC. ENCASED	PILE SHOES	CORED HOLES IN ROCK	BULB-TEE 48" X 49"					I-BEAMS TYPE XX							
	SUPERSTR	SUBSTR		cys	ft.	lbs.	lbs.	no.	ft.	no.	ft.	each	no.	ft.	each	no.	ft.	sft.	cys.	sys.	each	ft.	ft.	each	each	ft.	ft.
SUPERSTRUCTURE	X			X			X										X			X					X	X	X
PIER NO. 2		X	X			X																					
WEST APPROACH SLAB							X										X	X	X					X	X		
EAST APPROACH SLAB							X										X	X	X					X	X		
TOTALS	X	X	X	X		X	X										X	X	X	X				X	X	X	X

** ESTIMATED QUANTITY

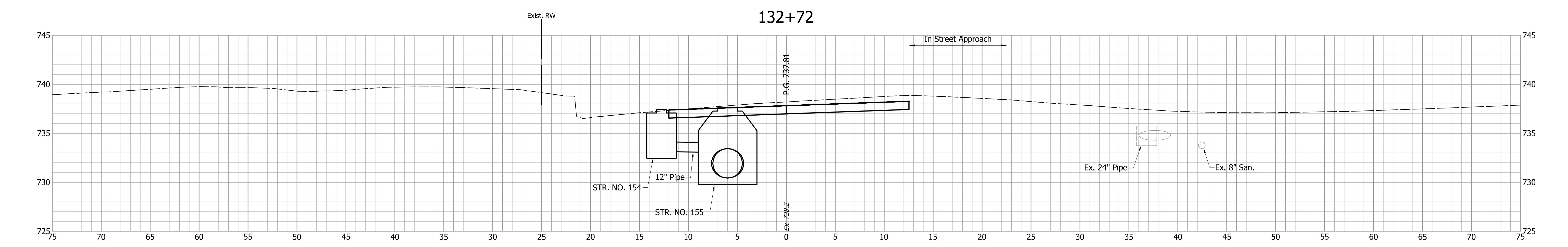
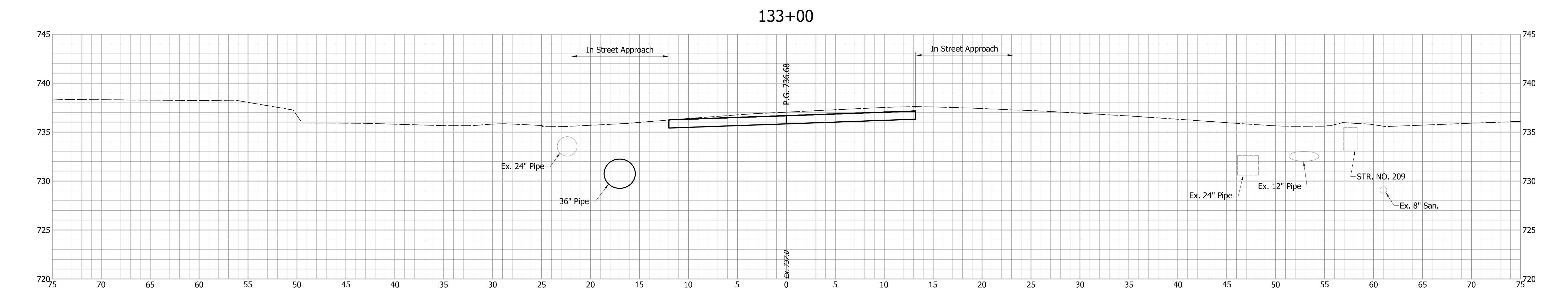
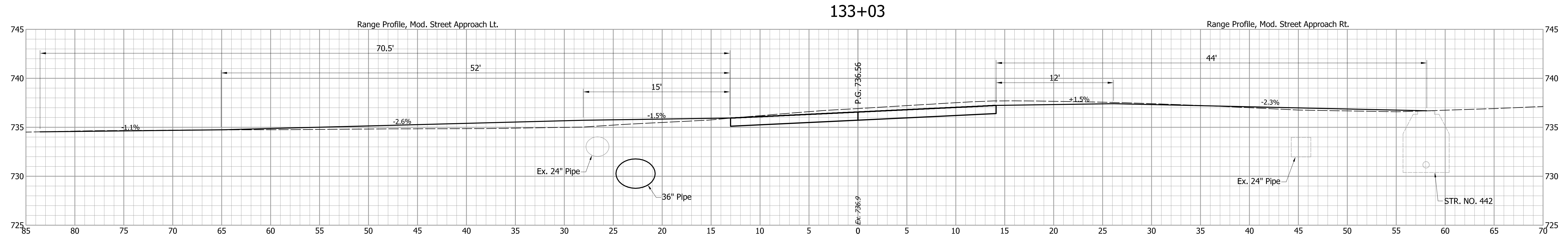
NOT FOR CONSTRUCTION

DESIGNED: MJH	DRAWN: DWB
CHECKED: BMA	CHECKED: MJH

INDIANA
DEPARTMENT OF TRANSPORTATION

ROAD AND BRIDGE SUMMARY

HORIZONTAL SCALE	BRIDGE FILE
NONE	056-88-10260
VERTICAL SCALE	DESIGNATION
NONE	1700168
SURVEY BOOK	SHEETS
---	12 of 17
CONTRACT	PROJECT
R-39905	1600873



FOR INFORMATION ONLY

DESIGNED: JGP	DRAWN: JGP
CHECKED: GRW	CHECKED: GRW

INDIANA
DEPARTMENT OF TRANSPORTATION

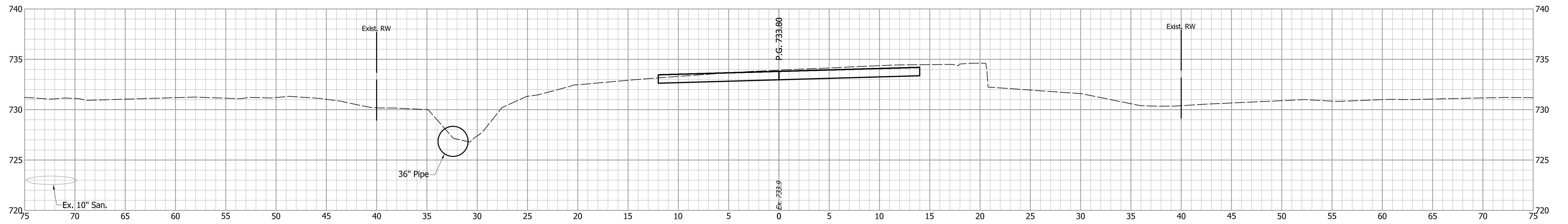
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S.R. 56

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1600873
SURVEY BOOK	SHEETS 13 of 17
CONTRACT R-39905	PROJECT 1600873

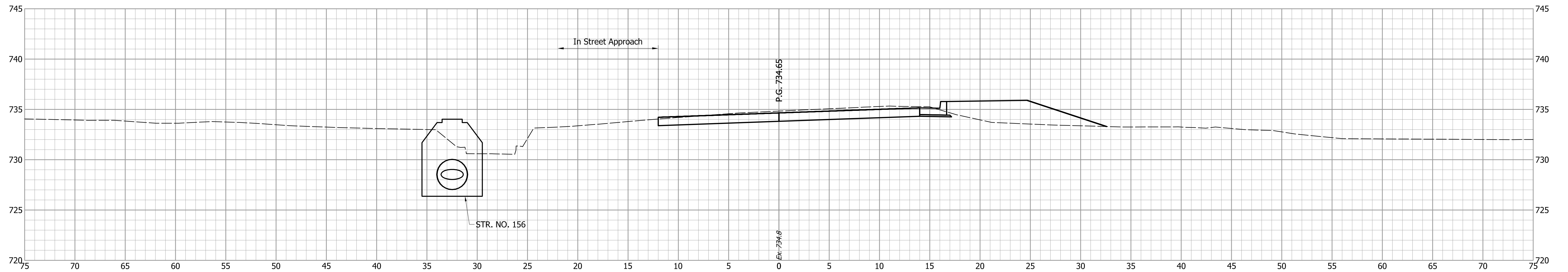
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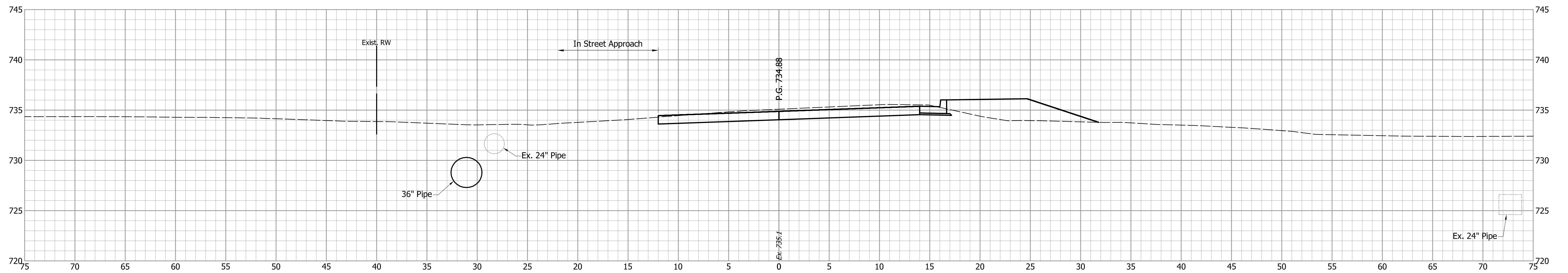
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133+57



133+50



FOR INFORMATION ONLY

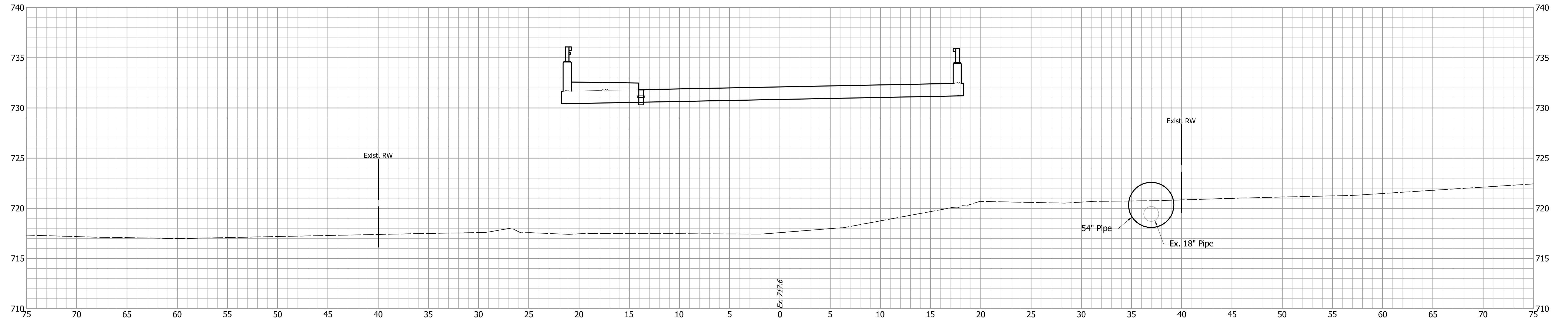
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INDIANA
DEPARTMENT OF TRANSPORTATION

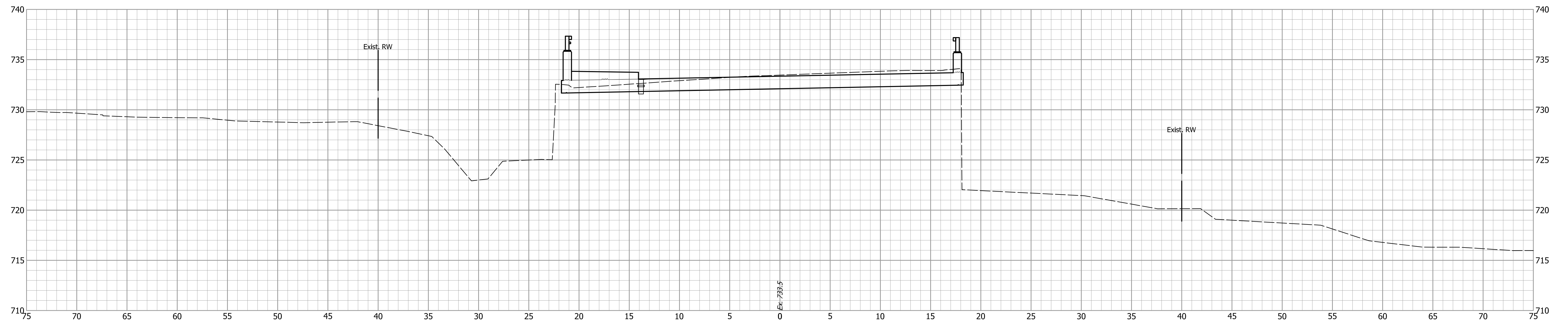
CROSS SECTIONS
S.R. 56

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VERTICAL SCALE 1" = 5'	DESIGNATION 1600873
SURVEY BOOK	SHEETS 14 of 17
CONTRACT R-39905	PROJECT 1600873

134+50



134+00



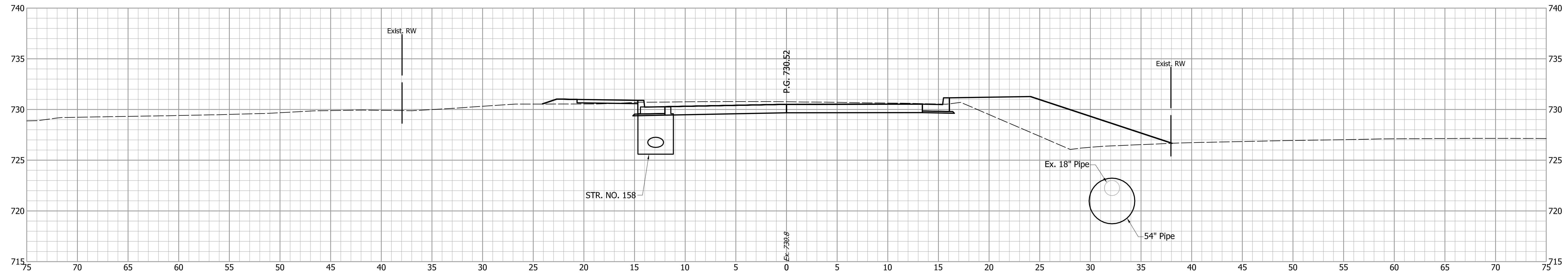
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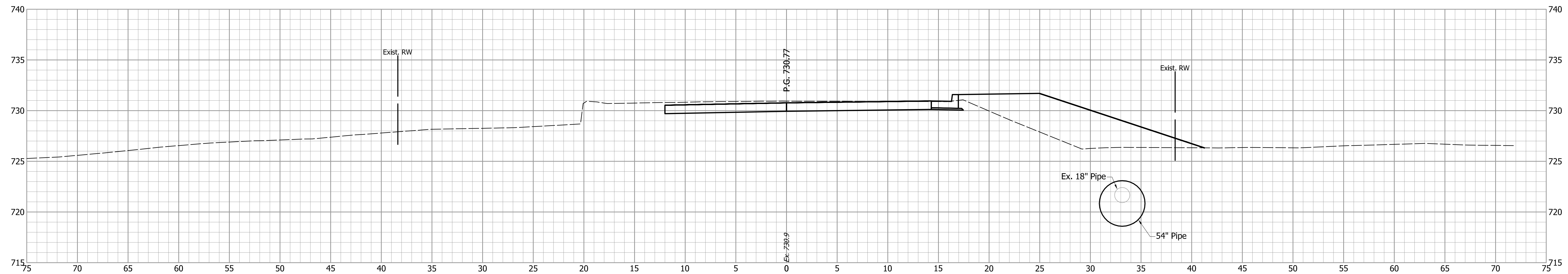
INDIANA
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 S.R. 56

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1600873
SURVEY BOOK	SHEETS 15 of 17
CONTRACT R-39905	PROJECT 1600873

135+41

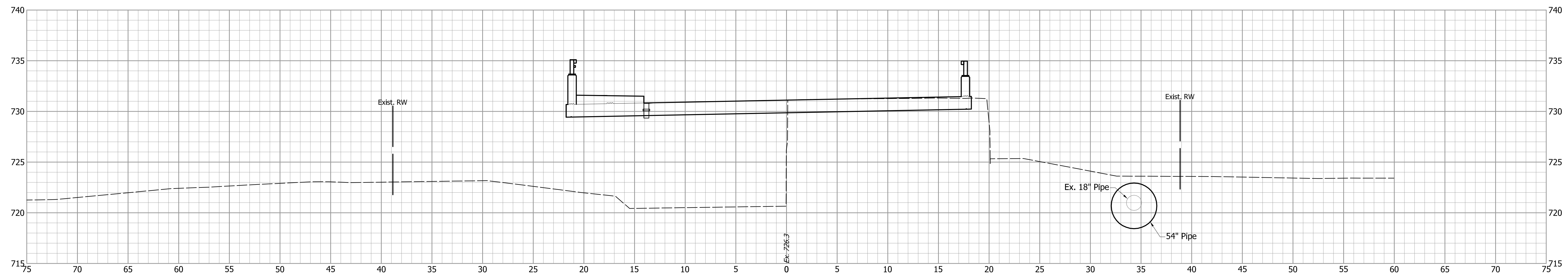


135+22



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Sta. 135+22.02 "SR-56"

135+00



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CHECKED: GRW CHECKED: GRW

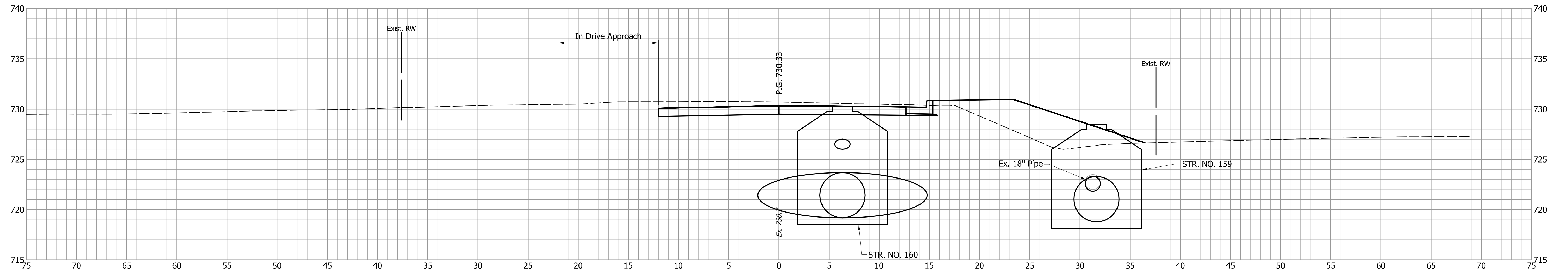
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
S.R. 56

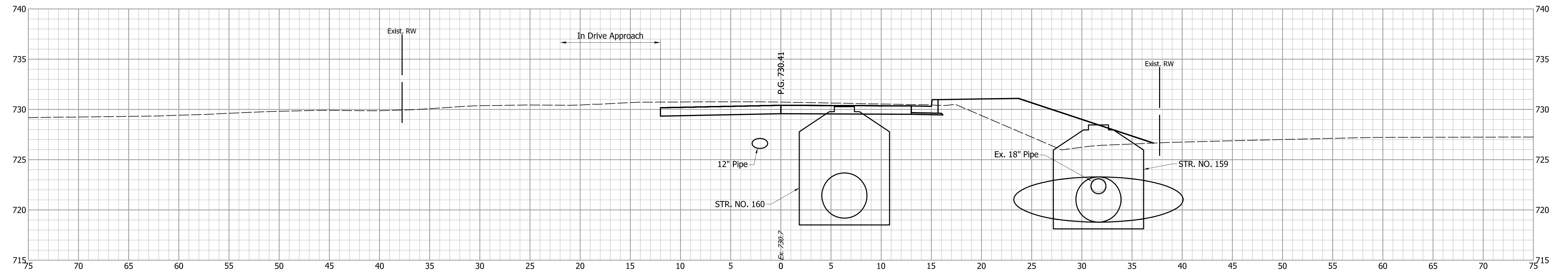
HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1600873
SURVEY BOOK	SHEETS 16 of 17
CONTRACT R-39905	PROJECT 1600873

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135+57



135+50



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INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
S.R. 56

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1600873
SURVEY BOOK	SHEETS 17 of 17
CONTRACT R-39905	PROJECT 1600873

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