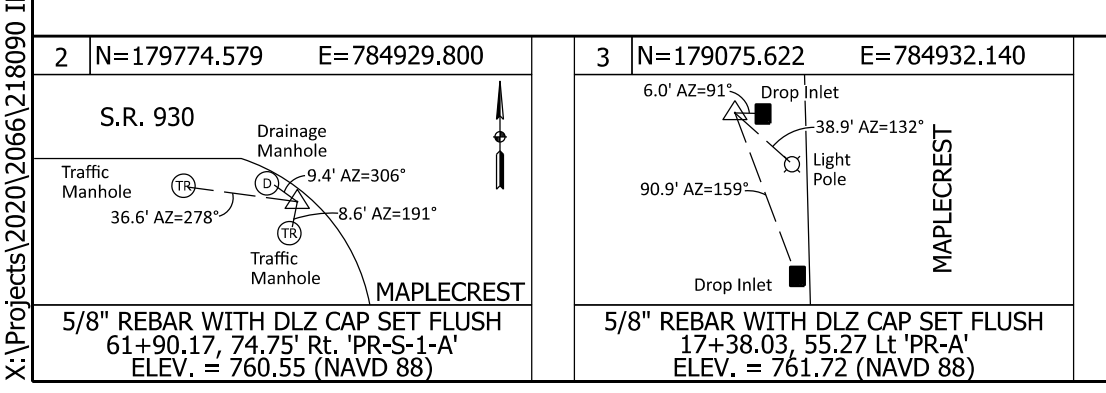
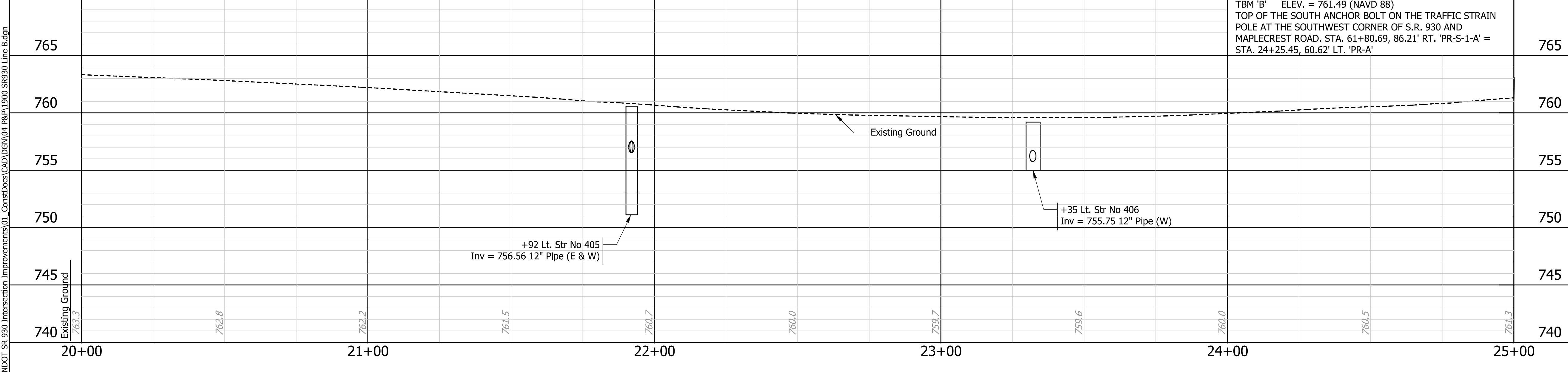


- ① R=60', Center
61+60.26 'PRS-1-A', 118.91' Rt.
- ② R=60', Center
63+32.60 'PRS-1-A', 106.94' Rt.

Notes:

- All R/W and existing topography described from Line "PR-A."
- Match existing D-1 Contraction Joint spacing of through lanes.

- LEGEND:**
- (A1) Widening with PCC Base, 12" Consisting of:
12" QC/QA-PCCP (with 18" D-1 Contraction Joint Spacing and 1.5" diameter dowels) on Subbase for PCCP, on Subgrade Treatment, Type IC
 - (F) Sidewalk, Concrete, 4"
 - (F1) PCCP, 4", on Subgrade Treatment, Type III
 - (F2) PCCP, 6", on Subgrade Treatment, Type III
 - (K) Mainline Pavement Section
165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 990 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm on 300 lb/syd QC/QA-HMA, 4, 76, Intermediate, OG, 19.0 mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IC, on Geotextile For Pavement, Type 2A
 - (M) Milling, Asphalt, 1 1/2 IN.
 - (R) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5mm
 - (K1) Shoulder Pavement Section
165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 440 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm on 12" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IC
 - (11) Sawcut
 - (14) Curb, Integral Concrete
 - (15) Curb and Gutter, Concrete
 - (23) Center Curb, D Concrete
 - (25) Seed Mixture, U
 - (26) Sodding
 - (72) Curb and Gutter, Remove
 - (73) Pavement Removal
 - (87) Casting, Inlet, Adjust to Grade
 - (88) Casting, Manhole, Adjust to Grade
 - (CR) Concrete Curb Ramp
See Details on Sheet 42



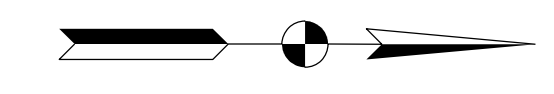
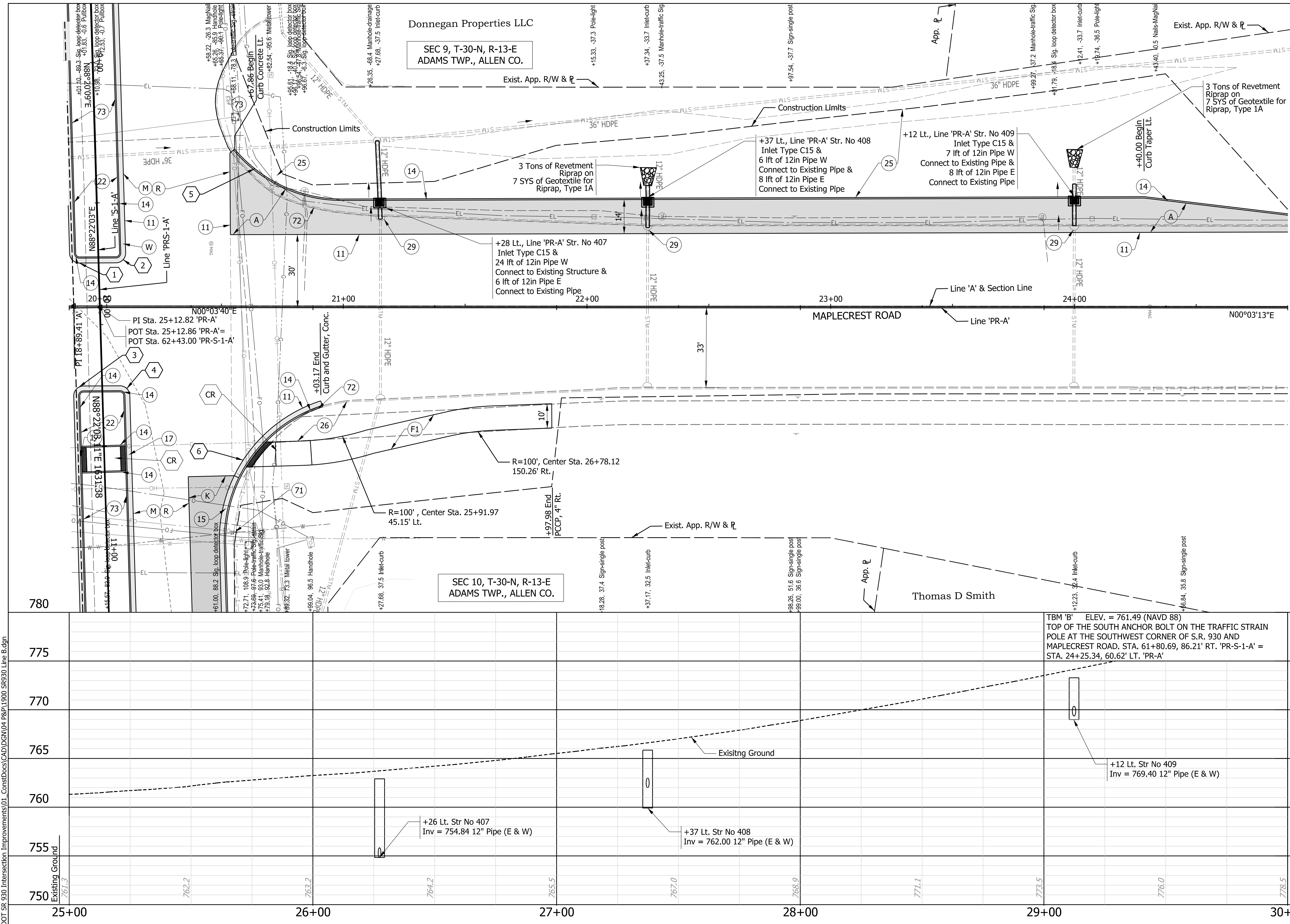
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE LINE 'PR-A'

SCALE	ROAD FILE
Horizontal Scale: 1"=20'	
Vertical Scale: 1"=5'	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	36 of 106
CONTRACT	PROJECT
R-42358	1900107

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- ① Sta. 62+20.47 'PRS-1-A', 7.92' Rt. R=4'
- ② Sta. 62+20.83 'PRS-1-A', 7.08' Lt. R=4'
- ③ Sta. 62+78.98 'PRS-1-A', 7.93' Rt. R=4'
- ④ Sta. 62+79.35 'PRS-1-A', 7.07' Lt. R=4'
- ⑤ R=58', Center
Sta. 61+43.96 'PRS-1-A', 102.08' Lt.
- ⑥ R=60', Center
Sta. 63+41.54 'PRS-1-A', 106.06' Lt.

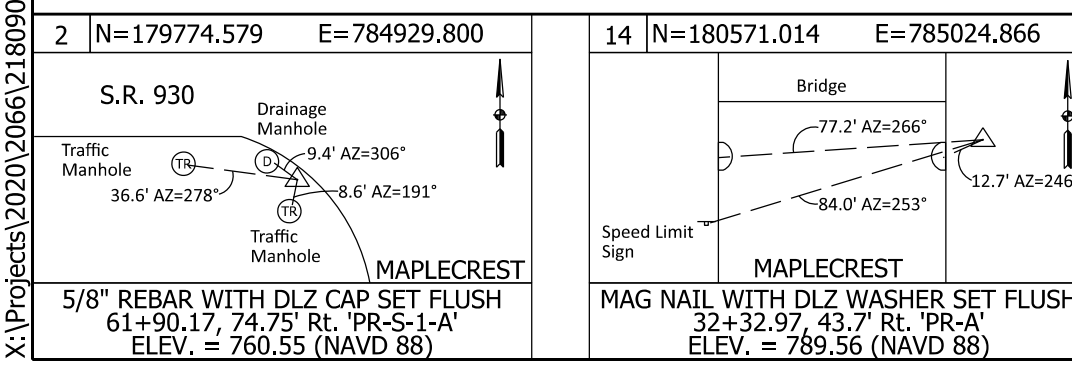
Notes:

1. All R/W and existing topography described from Line "PR-A."
2. Match existing D-1 Contraction Joint spacing of through lanes.

LEGEND:

- (A) 12" QC/QA-PCCP (with 18' D-1 Contraction Joint Spacing and 1.5" diameter dowels) on Subbase for PCCP, on Subgrade Treatment, Type IC
- (F1) PCCP, 4", on 4" Compacted Aggregate No. 53, on Subgrade Treatment, Type III
- (K) Mainline Pavement Section
165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 990 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm on 300 lb/syd QC/QA-HMA, 4, 76, Intermediate, OG, 19.0 mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IC, on Geotextile For Pavement, Type 2A
- (M) Milling, Asphalt, 1 1/2 IN.
- (R) 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5mm
- (11) Sawcut
- (14) Curb, Integral Concrete
- (15) Curb and Gutter, Concrete
- (18) Curb and Gutter, Concrete Depressed
- (22) Center Curb, D Concrete, on 6" Compacted Aggregate, No. 53
- (25) Seed Mixture, U
- (26) Sodding
- (71) Guardrail Removal
- (72) Curb and Gutter, Remove
- (73) Pavement Removal
- (CR) Concrete Curb Ramp
See Details on Sheet 42

X:\Projects\2020\2066\218090_INDOT SR 930 Intersection Improvements\01_ConstDocs\CAD\DWG\04 P&P\1900 SR930 Line B.dgn



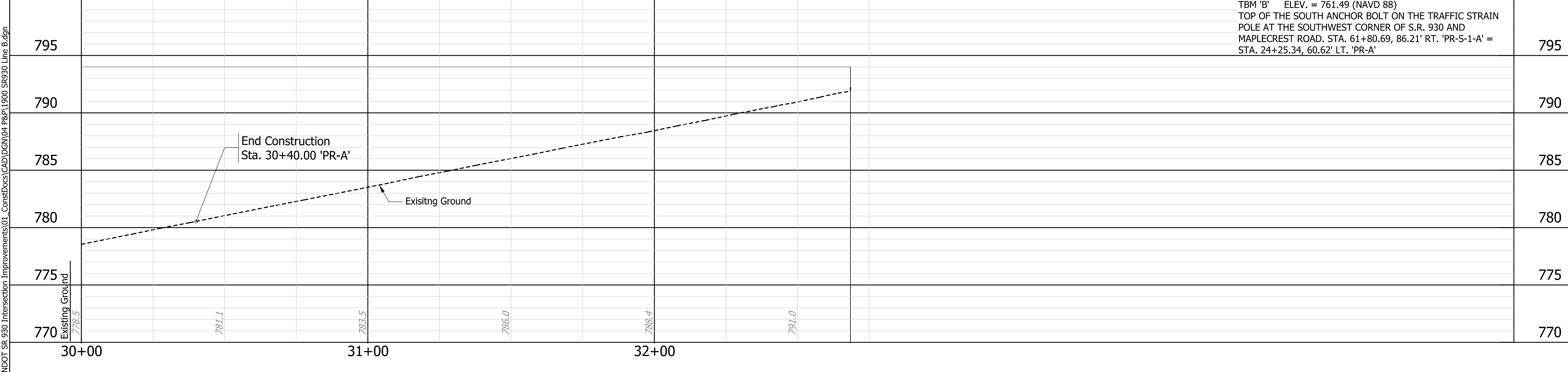
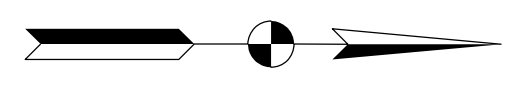
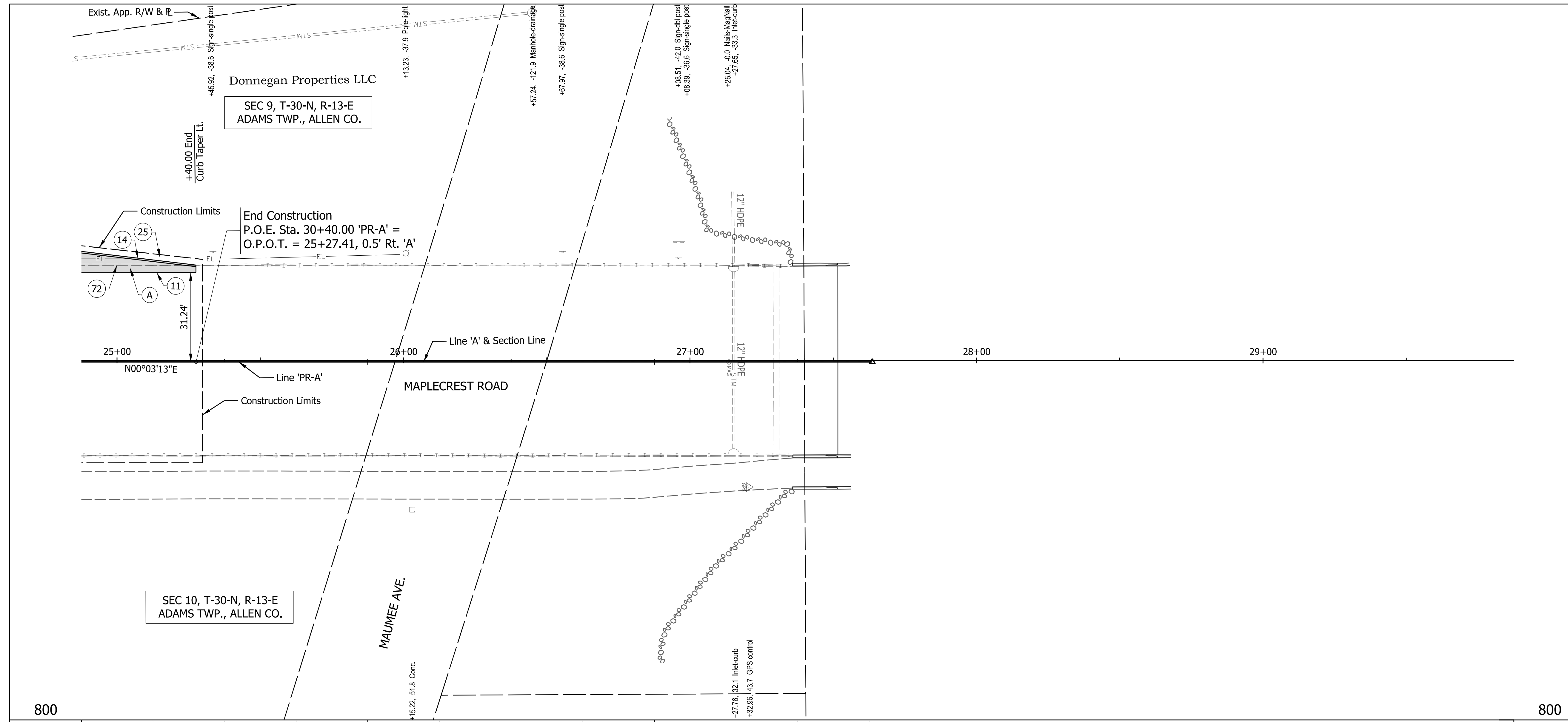
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

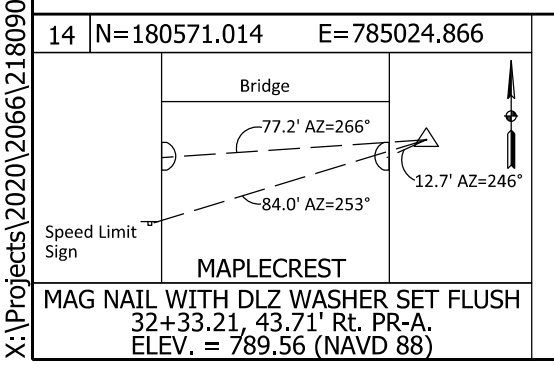
PLAN AND PROFILE
LINE 'PR-A'

SCALE	ROAD FILE
Horizontal Scale: 1"=20'	
Vertical Scale: 1"=5'	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	37 of 106
CONTRACT	PROJECT
R-42358	1900107



- Notes:**
- All R/W and existing topography described from Line "PR-A."
 - Match existing D-1 Contraction Joint spacing of through lanes.

- LEGEND:**
- (A) 12" QC/QA-PCCP (with 18' D-1 Contraction Joint Spacing and 1.5"-diameter dowels) on Subbase for PCCP, on Subgrade Treatment, Type IC
 - (11) Sawcut
 - (15) Curb and Gutter, Concrete
 - (25) Seed Mixture, U
 - (72) Curb and Gutter, Remove



NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

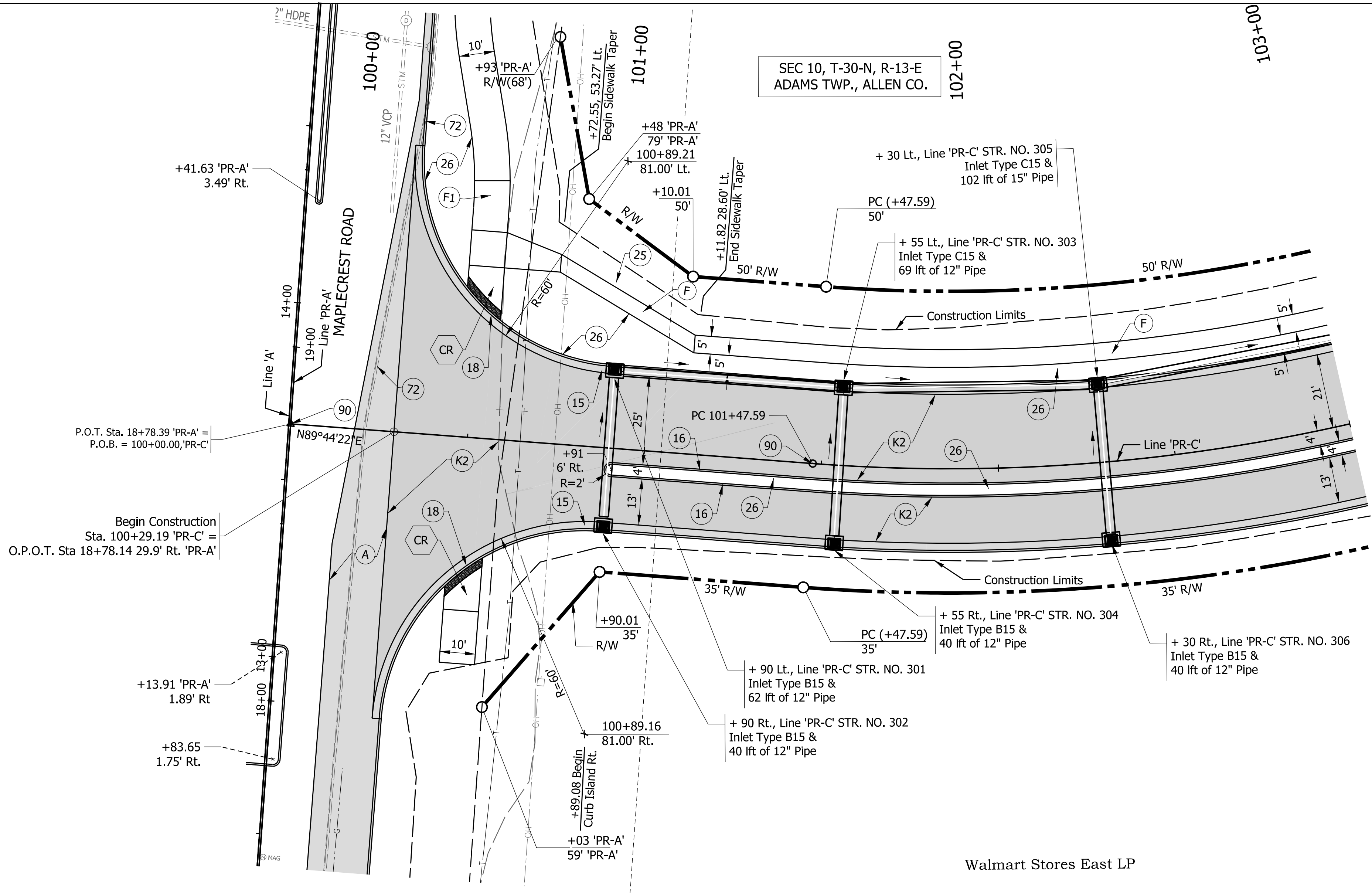
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LINE 'PR-A'

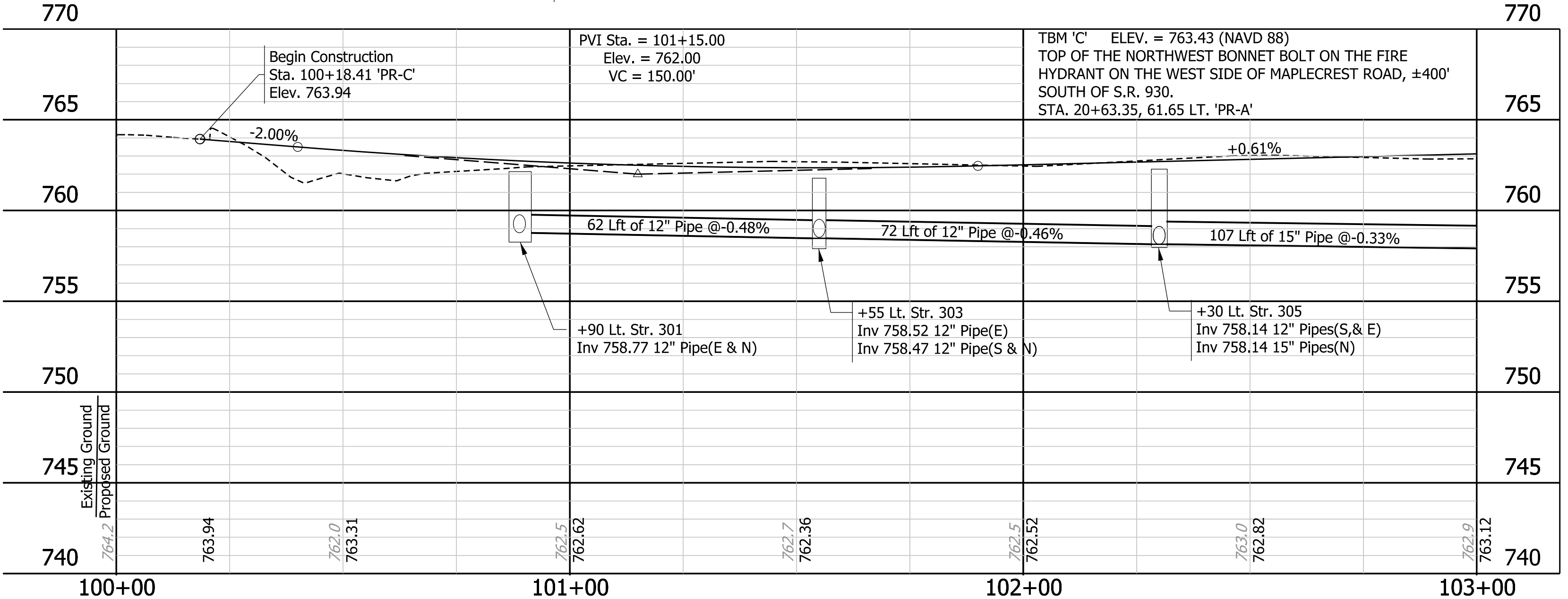
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	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 38 of 106
CONTRACT R-42358	PROJECT 1900107

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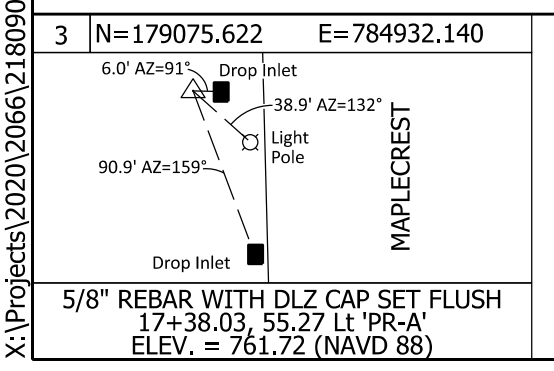
SEC 10, T-30-N, R-13-E
ADAMS TWP., ALLEN CO.

- Notes:**
1. All R/W and existing topography described from Line "PR-C."
 2. Line "PR-C" to be constructed.



- LEGEND:**
- (A) 12" QC/QA-PCCP (with 18" D-1 Contraction Joint Spacing and 1.5"-diameter dowels) on Subbase for PCCP, on Subgrade Treatment, Type IC
 - (F) Sidewalk, Concrete, 4"
 - (F1) PCCP, 4", on 4" Compacted Aggregate No. 53, on Subgrade Treatment, Type III
 - (K2) Mainline Pavement Section
165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 770 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm on 300 lb/syd QC/QA-HMA, 4, 76, Intermediate, OG, 19.0 mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IC, on Geotextile For Pavement, Type 2A
 - (11) Sawcut
 - (15) Curb and Gutter, Concrete
 - (16) Curb, Concrete
 - (18) Curb and Gutter, Concrete Depressed
 - (23) Center Curb, D Concrete
 - (25) Seed Mixture, U
 - (26) Sodding
 - (72) Curb and Gutter, Remove
 - (90) Monument, B
 - (CR) Concrete Curb Ramp
See Details on Sheet 43

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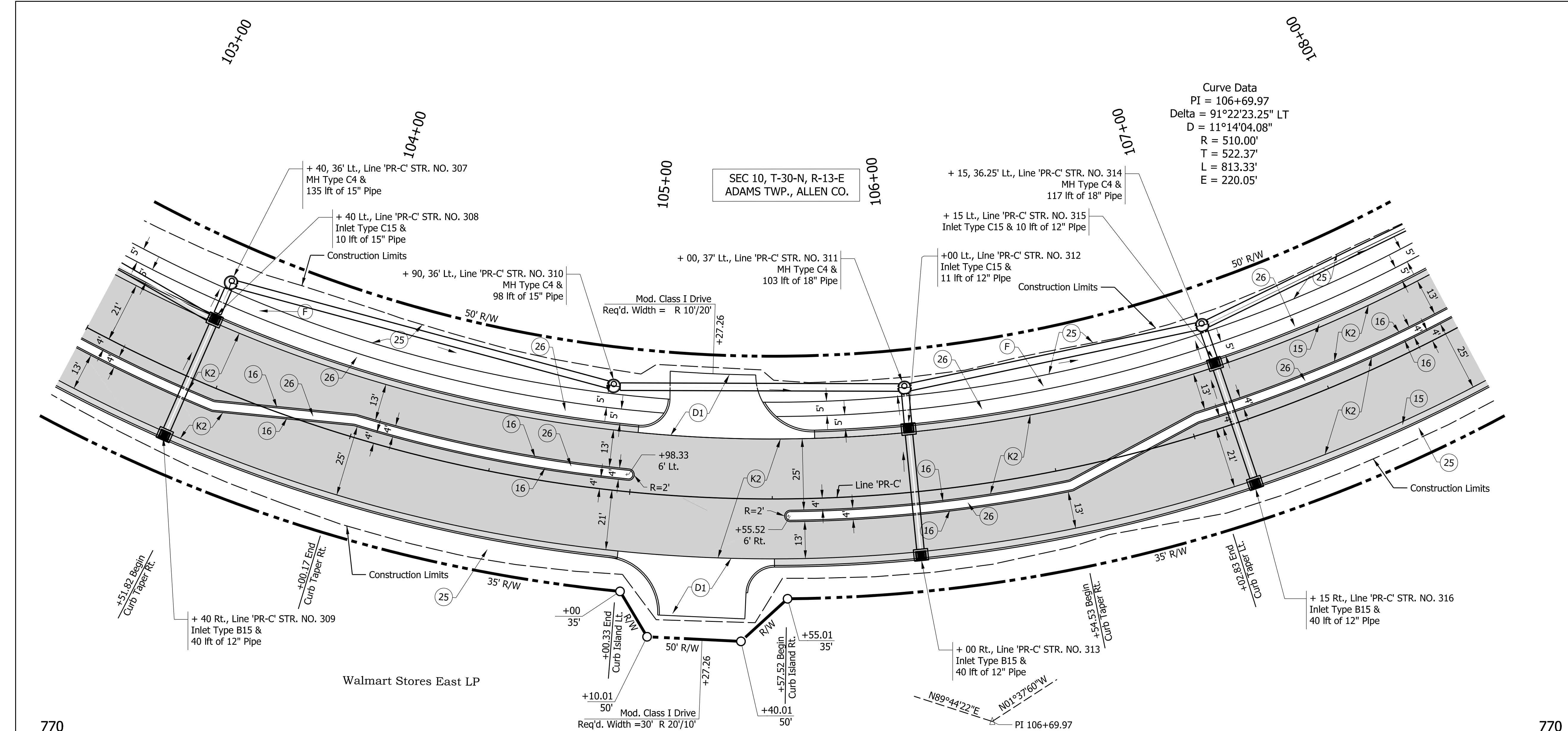


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

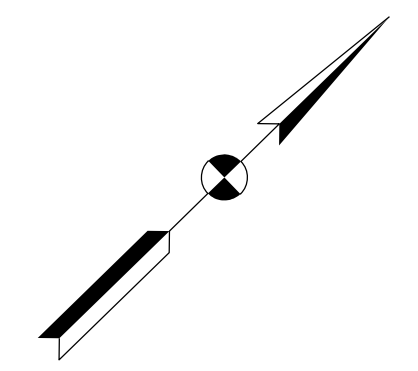
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE 'PR-C'

SCALE	ROAD FILE
Horizontal Scale: 1"=20'	
Vertical Scale: 1"=5'	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	39 of 106
CONTRACT	PROJECT
R-42358	1900107



Curve Data
 PI = 106+69.97
 Delta = 91°22'23.25" LT
 D = 11°14'04.08"
 R = 510.00'
 T = 522.37'
 L = 813.33'
 E = 220.05'

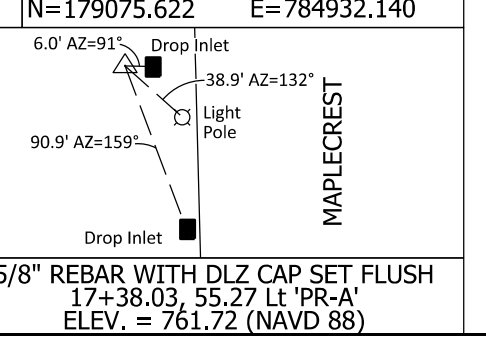


770						770					
765			PVI Sta. = 105+30.00 Elev. = 764.52 VC = 200.00'		TBM 'C' ELEV. = 763.43 (NAVD 88) TOP OF THE NORTHWEST BONNET BOLT ON THE FIRE HYDRANT ON THE WEST SIDE OF MAPLECREST ROAD, ±400' SOUTH OF S.R. 930. STA. 20+63.35, 61.65 LT. 'PR-A'	765					
760	+0.61%	+40 Lt. Str. 307 Inv 757.74 15" Pipes(E & N)				760					
755	107 Lft of 15" Pipe @-0.33%	146 Lft of 15" Pipe @-0.32%	106 Lft of 15" Pipe @-0.32%	111 Lft of 15" Pipe @-0.32%	126 Lft of 18" Pipe @-0.25%	755					
750		+40 Lt. Str. 308 Inv 757.79 12" Pipes(S & W) Inv 757.74 15" Pipes(N)	+90 Lt. Str. 310 Inv 757.28 15" Pipes(S & N)	+90 Lt. Str. 311 Inv 756.94 15" Pipes(S & N) Inv 759.31 12" Pipe(E)	+15 Lt. Str. 314 Inv 756.59 15" Pipe(S) Inv 756.59 18" Pipes(N) Inv 757.59 12" Pipe(E)	750					
745	Existing Ground					745					
740	762.12 763.12	762.7 763.43	762.7 763.73	763.3 764.01	764.0 764.09	763.8 763.92	763.1 762.86	762.9 762.17	762.3 761.48	761.6 760.79	740
	103+00	104+00	105+00	106+00	107+00	108+00					

- Notes:**
- All R/W and existing topography described from Line "PRC"
 - Line "PRC" to be constructed.

- LEGEND:**
- (D1) PCCP for Approaches, 9", on Dense Graded Subbase, 6", on Subgrade Treatment, Type II Sidewalk, Concrete, 4"
 - (F) Mainline Pavement Section 165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 770 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm on 300 lb/syd QC/QA-HMA, 4, 76, Intermediate, OG, 19.0 mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IC, on Geotextile For Pavement, Type 2A
 - (K2) Curb and Gutter, Concrete
 - (15) Curb, Concrete
 - (25) Seed Mixture, U
 - (26) Sodding
 - (90) Monument, B

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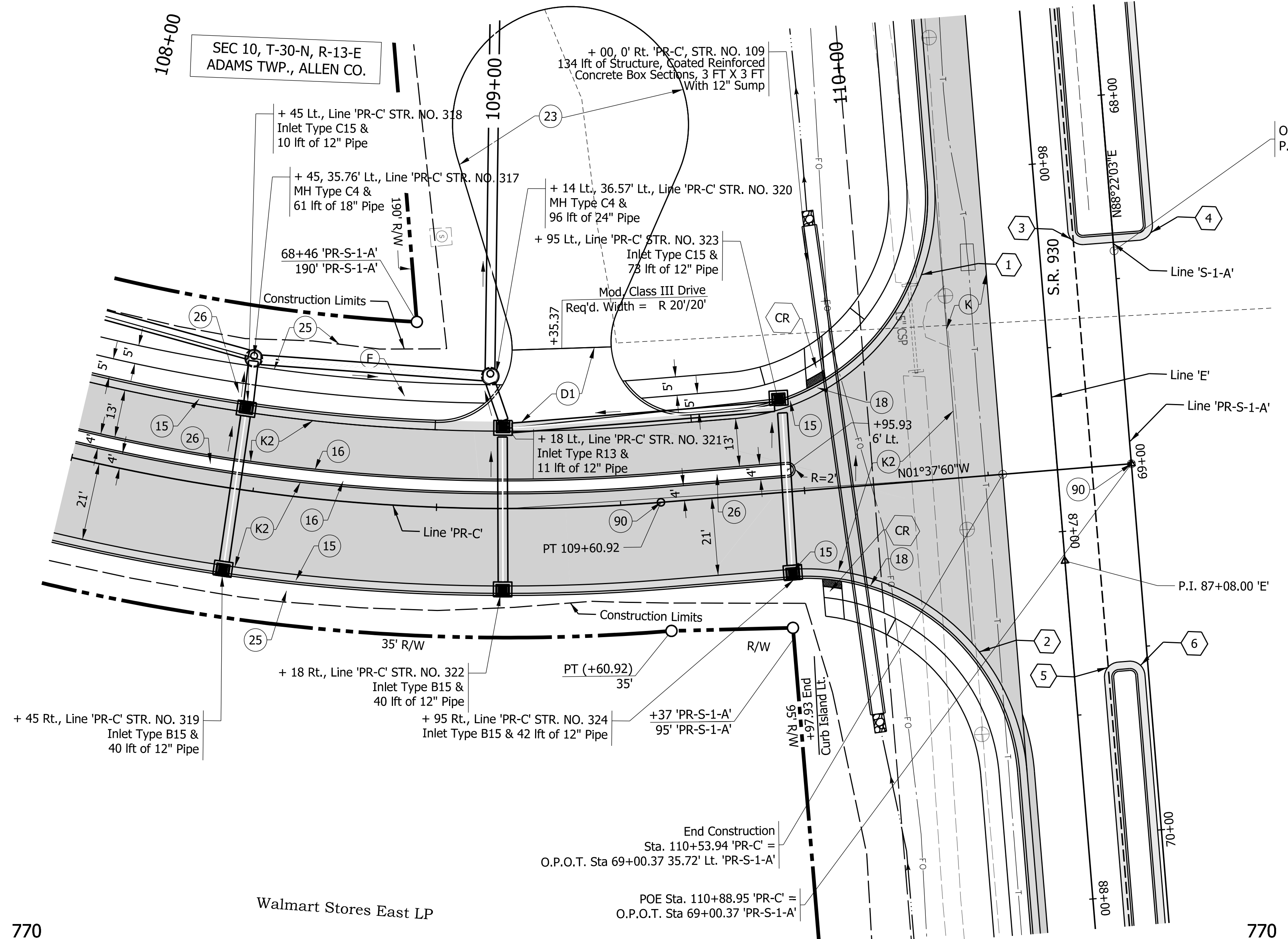


NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
 PLAN AND PROFILE
 LINE 'PR-C'

SCALE	ROAD FILE
Horizontal Scale: 1"=20'	
Vertical Scale: 1"=5'	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	40 of 106
CONTRACT	PROJECT
R-42358	1900107



- 1 R=60', Center
Sta. 69+19.38 'PRS-1-A', 107' Rt.
- 2 R=60', Center
Sta. 69+81.36 'PRS-1-A', 95.01' Rt.
- 3 Sta. 68+36.04 'PRS-1-A', 8' Rt. R=4'
- 4 Sta. 68+36.10 'PRS-1-A', 7' Lt. R=4'
- 5 Sta. 69+57.71 'PRS-1-A', 8' Rt. R=4'
- 6 Sta. 69+57.71 'PRS-1-A', 8' Rt. R=4'

Notes:

1. All R/W and existing topography described from Line "PR-C"
2. Line "PR-C" to be constructed.

LEGEND:

- D1 PCCP for Approaches, 9", on Dense Graded Subbase, 6", on Subgrade Treatment, Type II
- F Sidewalk, Concrete, 4"
- K Mainline Pavement Section
165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 990 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm on 300 lb/syd QC/QA-HMA, 4, 76, Intermediate, OG, 19.0 mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IC, on Geotextile For Pavement, Type 2A
- K2 Mainline Pavement Section
165 lb/syd QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 770 lb/syd QC/QA-HMA, 3, 64, Base, 25.0 mm on 300 lb/syd QC/QA-HMA, 4, 76, Intermediate, OG, 19.0 mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, Type IC, on Geotextile For Pavement, Type 2A
- 11 Sawcut
- 15 Curb and Gutter, Concrete
- 16 Curb, Concrete
- 18 Curb and Gutter, Concrete Depressed
- 22 Center Curb, D Concrete
- 23 6" Compacted Aggregate No. 73, on Subgrade Treatment Type, IC
- 25 Seed Mixture, U
- 26 Sodding
- 90 Monument, B
- CR Concrete Curb Ramp
See Details on Sheet 43

770		PVI Sta. = 109+35.00 Elev. = 758.93 VC = 180.00'	TBM 18' ELEV. = 761.49 (NAVD 88) TOP OF THE SOUTH ANCHOR BOLT ON THE TRAFFIC STRAIN POLE AT THE SOUTHWEST CORNER OF S.R. 930 AND MAPLECREST ROAD. STA. 61+80.69, 86.21' RT. 'PR-S-1-A' = STA. 24+25.34, 60.62' LT. 'PR-A'	770
765				765
760		+45 Lt. Str. 317 Inv 756.27 18" Pipes(S & N) Inv 756.18 12" Pipe(E)	+18 Lt. Str. 320 Inv 756.09 18" Pipes(S) Inv 756.09 24" Pipes(W) Inv 759.09 12" Pipe(E)	760
755		126 Lft of 18" Pipe @ -0.25%	126 Lft of 18" Pipe @ -0.25%	755
750			+10, 0' Rt. STR. NO. 109 Inlet Flow Line & Inv. El. = 755.51 Outlet Flow Line & Inv. El. = 754.76	750
745			+18 Lt. Str. 321 Inv 756.16 12" Pipes(N,E & W) (Plotted 10' Below Datum)	745
740			+95 Lt. Str. 323 Inv 756.60 12" Pipes(S & E) (Plotted 10' Below Datum)	740
			73 Lft of 12" Pipe @ +0.46%	

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4 N=179820.856 E=785509.288
S.R. 930
Northeast Anchor Bolt On Strain Pole (TBM D)
70.4' Az=84°
48.5' Az=256°
27.0' Az=201°
R/W Monument
MAG NAIL WITH DLZ WASHER SET FLUSH
67+70.74, 45 Rt. 'PR-S-1-A'
ELEV. = 760.42 (NAVD 88)



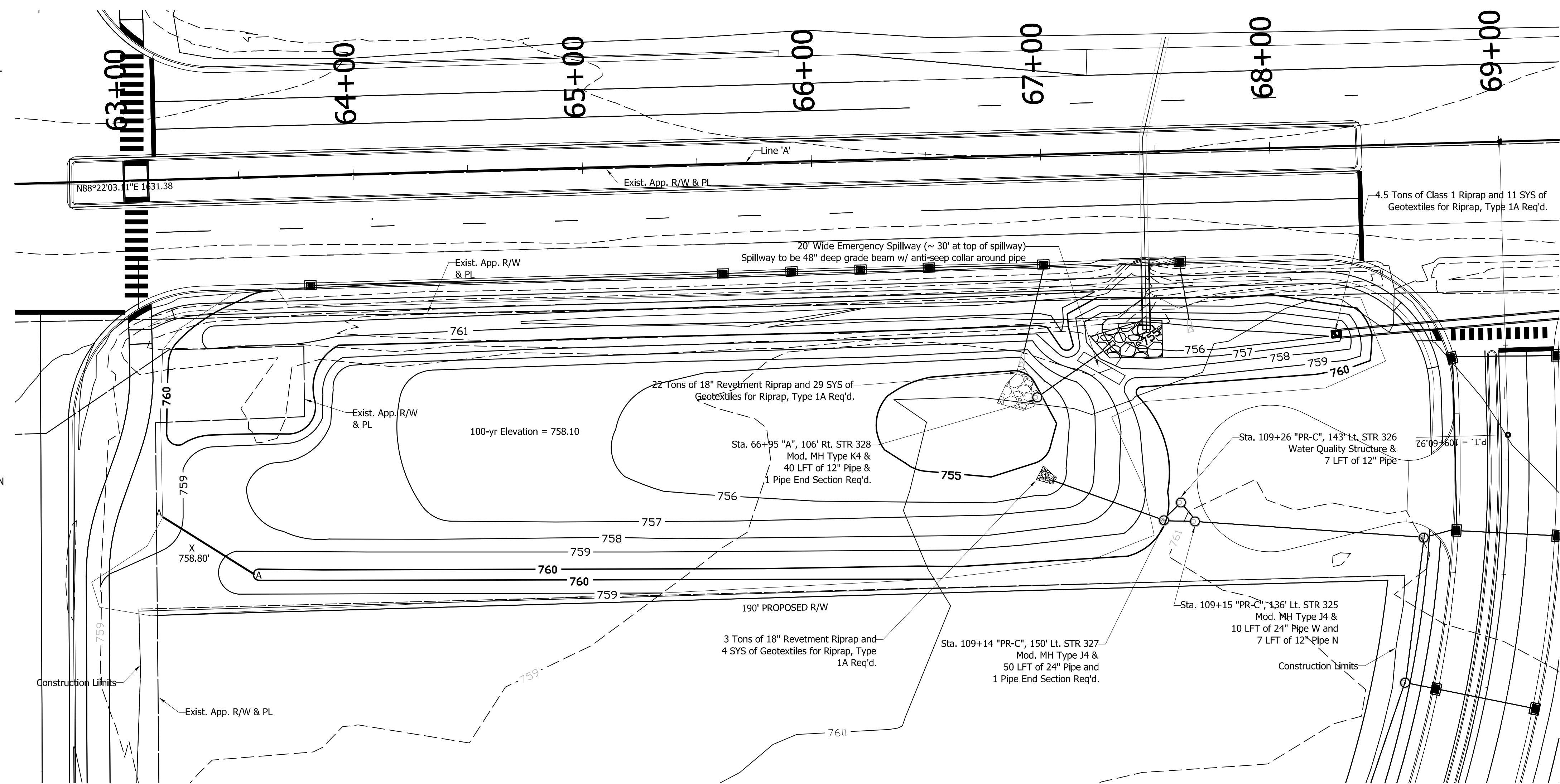
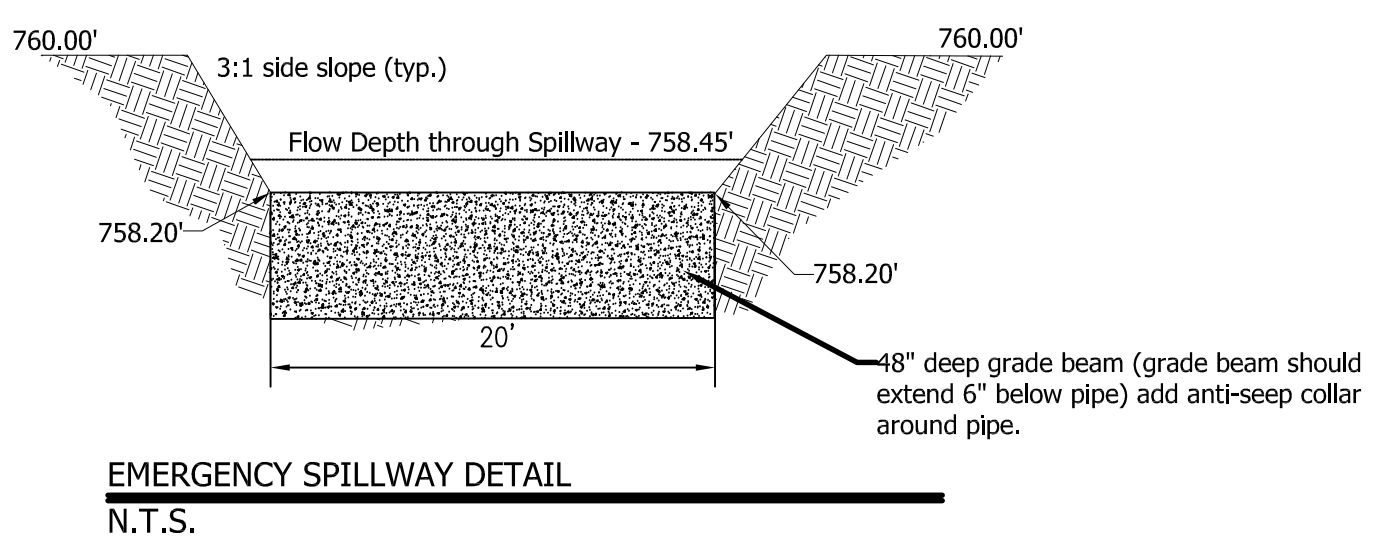
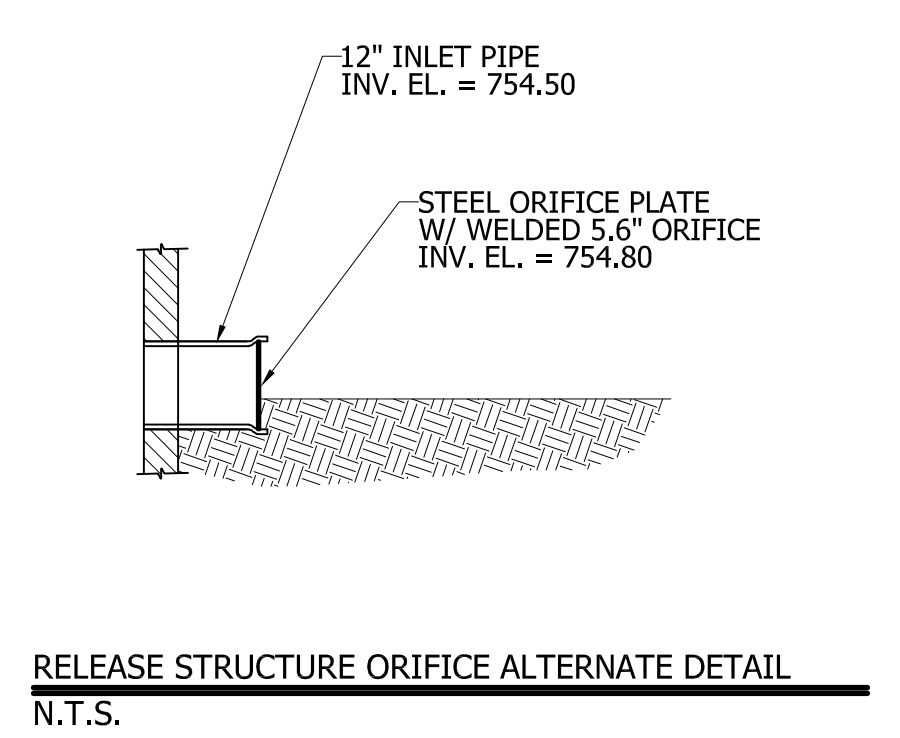
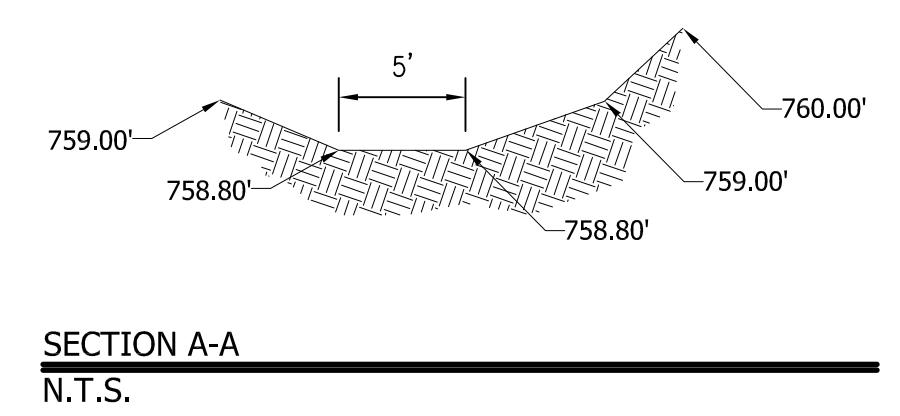
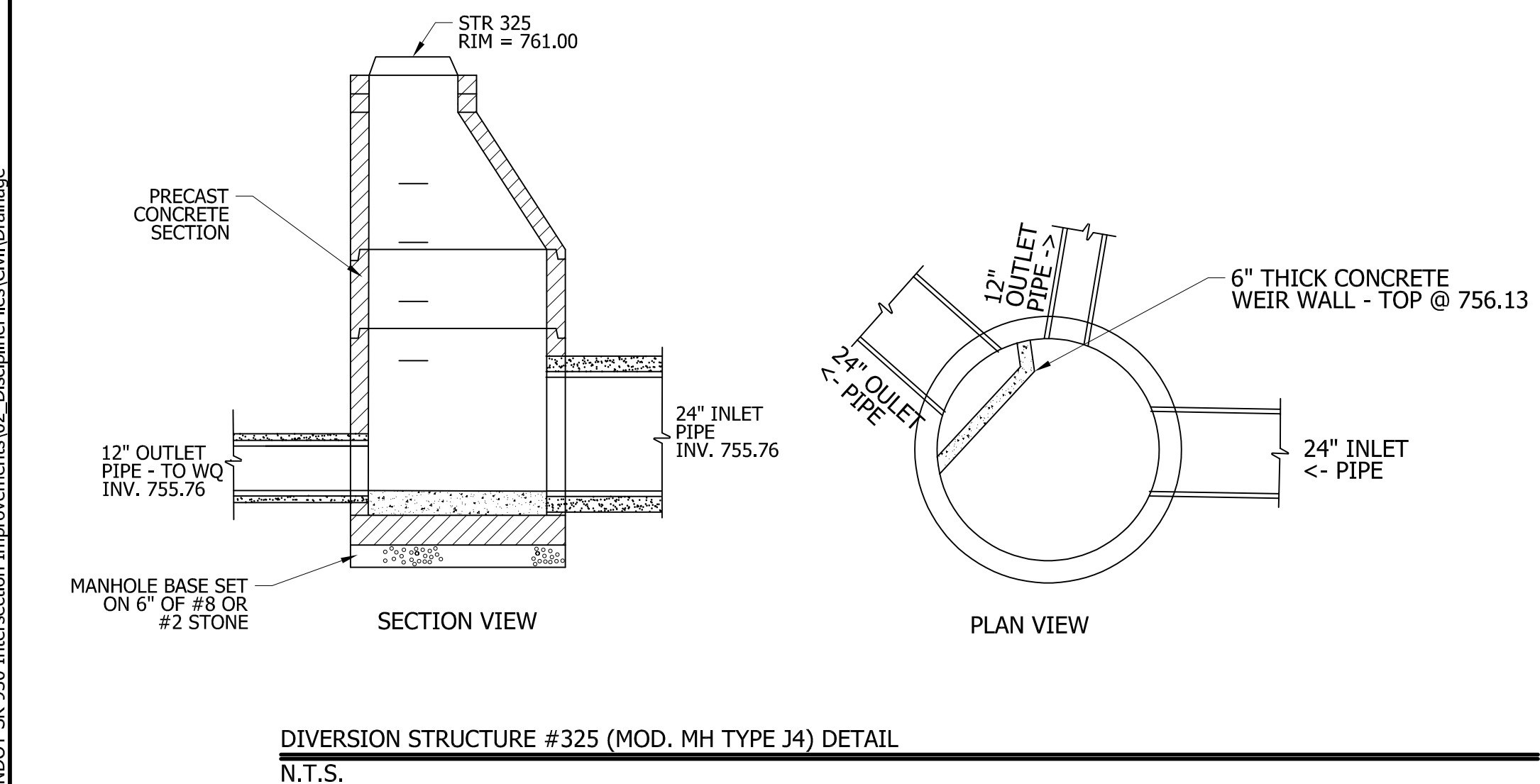
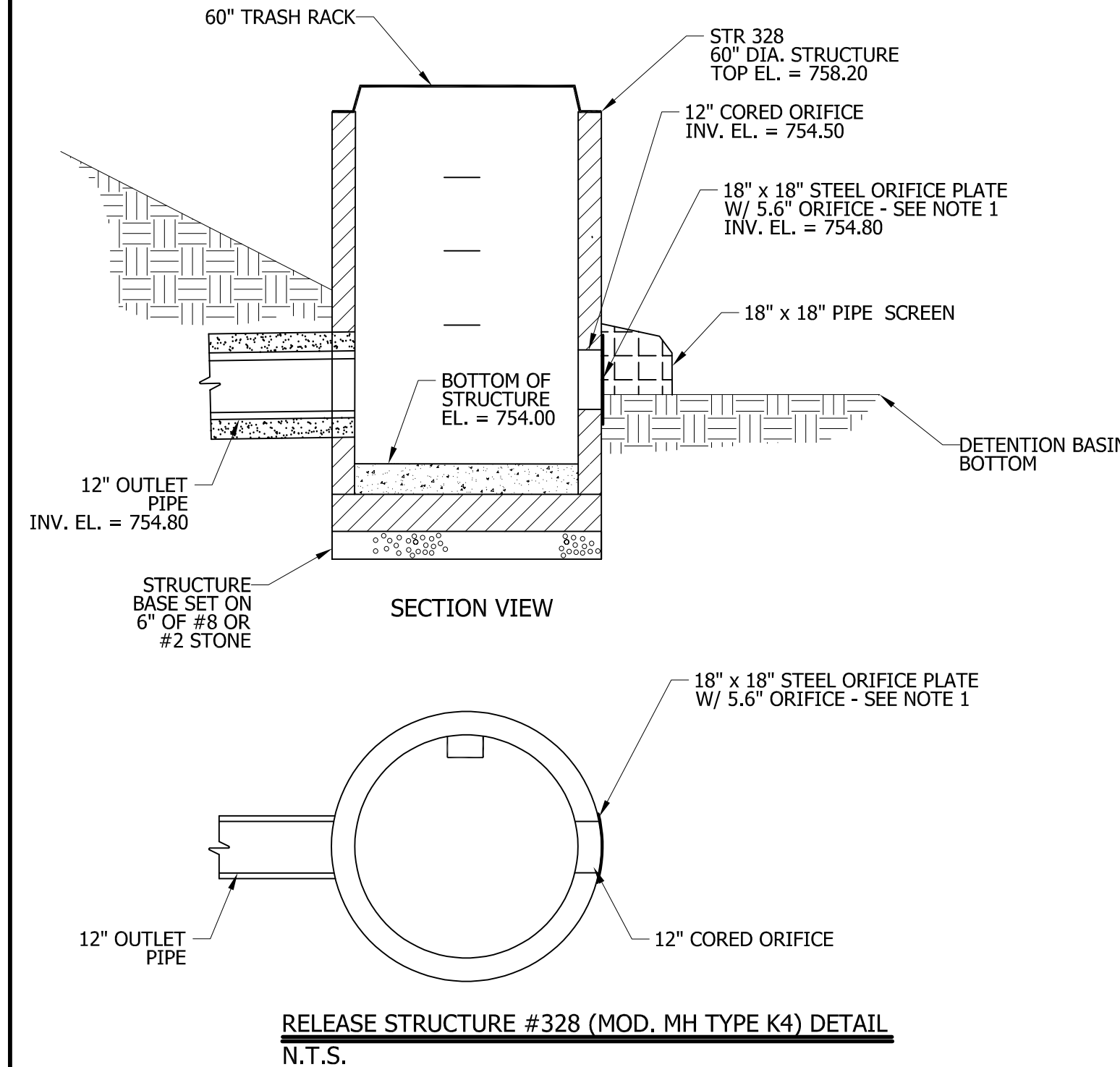
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE
LINE 'PR-C'

SCALE	ROAD FILE
Horizontal Scale: 1"=20'	
Vertical Scale: 1"=5'	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	41 of 106
CONTRACT	PROJECT
R-42358	1900107

- IN LIEU OF ORIFICE DETAIL SHOWN, AN ALTERNATE METHOD MAY BE USED AS SUCH: 12" INLET PIPE WITH STEEL PLATE INLAID WITHIN PIPE INVERT. 5.6" ORIFICE WELDED OUT OF STEEL PLATE. SEE DETAIL THIS SHEET.
- DETENTION BASIN OUTLET CONTROL MANHOLE SHALL BE FURNISHED WITH A DOME TOP-MOUNT TRASH RACK SUCH AS:
TRASHRACKS.COM MODEL LDR-60
CONTECH RS-60
PHOENIX PRE-CAST PRODUCTS TOP GRATE DOMED
OR APPROVED EQUAL
- DETENTION BASIN OUTLET CONTROL MANHOLE SHALL BE FURNISHED WITH AN ORIFICE PIPE SCREEN SUCH AS:
TRASHRACKS.COM MODEL LPG-18
OR APPROVED EQUAL
- TRASH RACK TO BE BOLTED TO TOP FLANGE OF MANHOLE RIM. PIPE SCREEN TO BE BOLTED TO STEEL PLATE OR MANHOLE. TRASH RACK AND PIPE SCREEN TO BE REMOVEABLE FOR MAINTENANCE ACCESS.



- NOTES:**
- WATER QUALITY STRUCTURE SHALL BE MODEL DOWNSTREAM DEFENDER 4' DIAMETER OR APPROVED EQUAL.

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DLZ

NOT FOR CONSTRUCTION

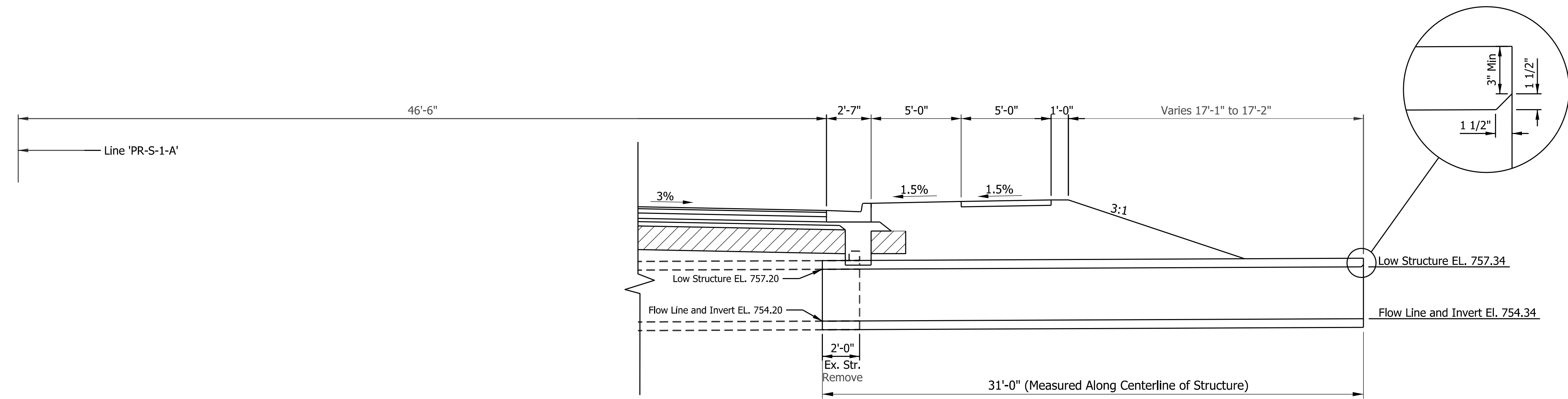
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: <u>BD</u>	DRAWN: <u>EMY</u>	
CHECKED: <u>JEL</u>	CHECKED: <u>BD</u>	

INDIANA DEPARTMENT OF TRANSPORTATION

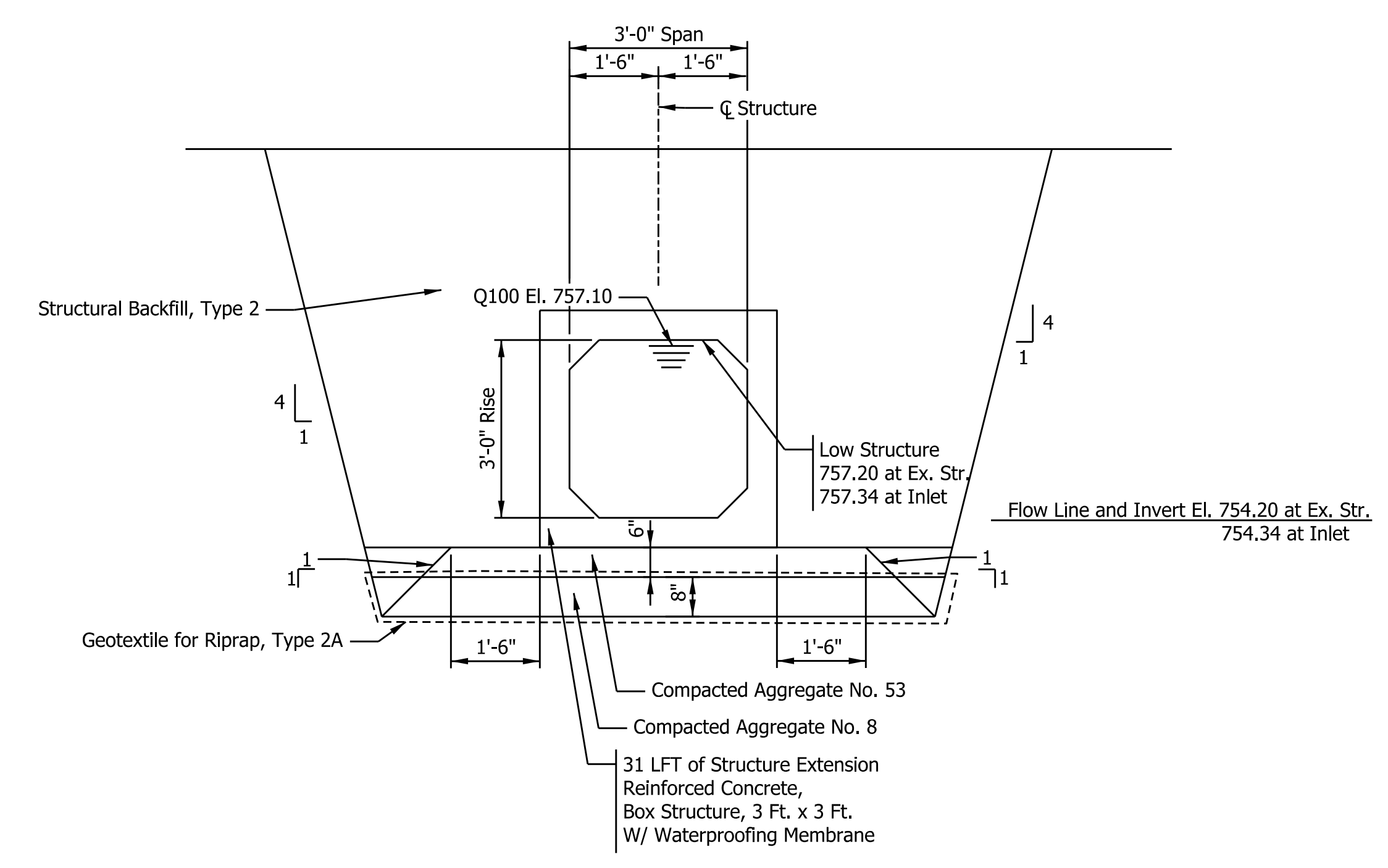
DETENTION BASIN LAYOUT

SCALE	ROAD FILE
Horizontal Scale: 1"=30'	-
Vertical Scale: N/A	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	42 of 106
CONTRACT	PROJECT
R-42358	1900107



Note: Dimensions and Slopes are taken Perpendicular to Line 'PR-S-1-A' Unless Noted Otherwise.

SECTION ALONG CL OF CULVERT
Scale: 1/4" = 1'-0"



SECTION 1 TO STRUCTURE
Scale: 1/2" = 1'-0"

DESIGN DATA:

- Live Load:
Designed for HL-93 loading, in accordance with the AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017, and its subsequent interims.
- Dead Load:
Actual Dead Load will consist of the Culvert, 3'-0" Max of Earth Cover, Plus 35 Psf for Future Wearing Surface
- Design Strength:
Reinforcing Steel (Grade 60) $f_y = 60,000$ psi
Precast Concrete $f'_c = 5,000$ psi
Class 'A' Concrete $f'_c = 3,500$ psi
Class 'B' Concrete $f'_c = 3,000$ psi
Class 'C' Concrete $f'_c = 4,000$ psi

GENERAL NOTES:

- Contractor Shall Verify the Existing Structure Flow Line Elevation.
- A waterproofing membrane shall be applied to the structure in accordance with 714.11. The top joints shall be filled with a non-shrink grout in accordance with 707.09 and ASTM C1107. The membrane shall not be damaged when backfill is placed.
- See INDOT Standard Drawing E 714-BCEX-01 for limits of existing structure removal and attaching extension to existing structure.

HYDRAULIC DATA:

- Drainage Area = 19.59 sq. mi.
Design Discharge Q100 = 36.26 cfs
Velocity @ Q50 = 4.28 ft/s
Q100 Elevation = 757.10 ft.
Backwater at Q100 = 0.77 ft.
Waterway Opening Provided Below Q100 El. = 9 sq. ft.
Proposed Low Structure = 756.78 ft.
Skew = 0°29'00" Rt.
Existing Waterway opening Provided Below Q100 El. = 9 Sq. ft.
Existing Low Structure = 756.78 ft.
Existing Backwater = 0.82 ft.

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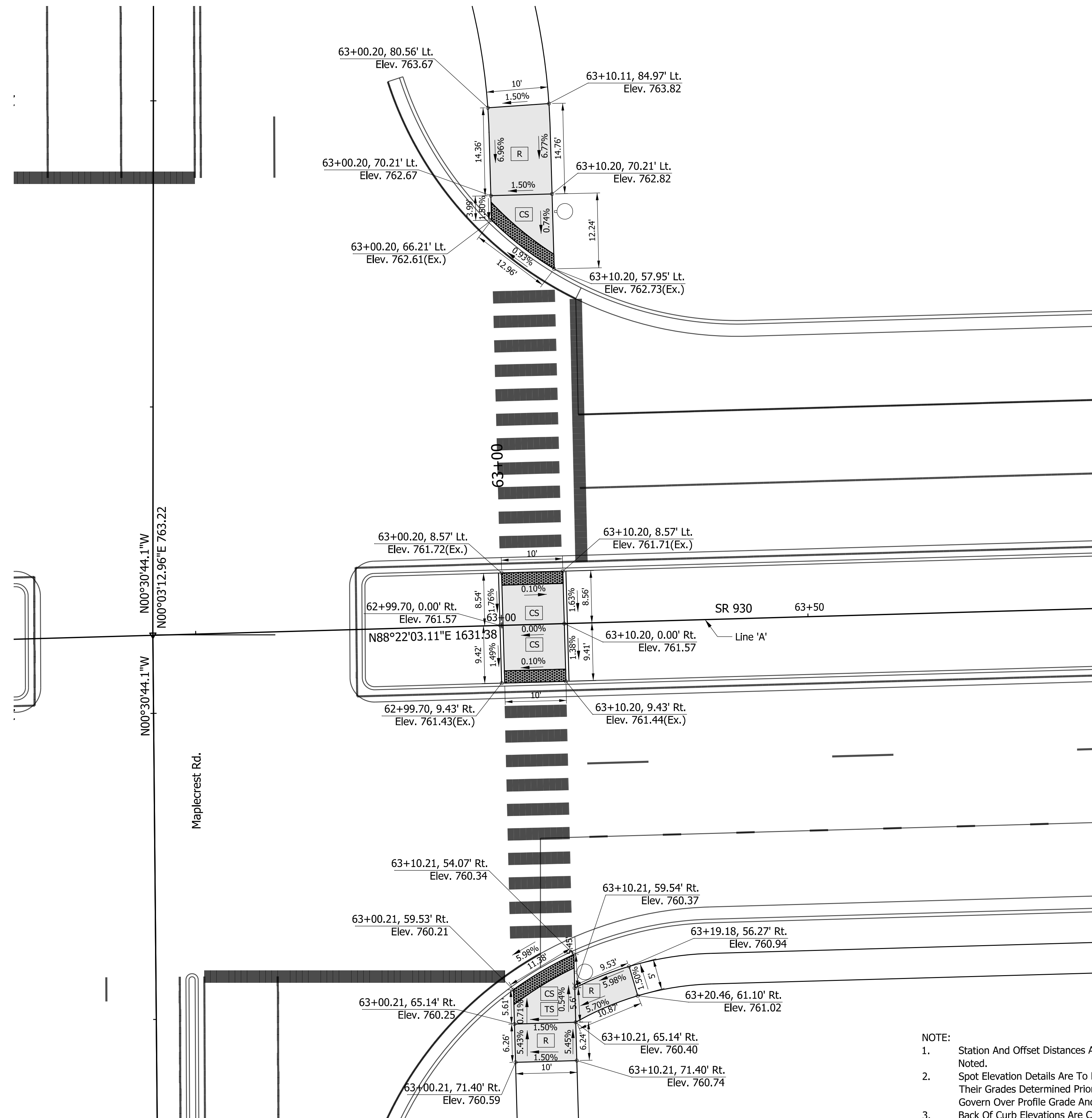
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JFM	DRAWN: DPH	
CHECKED: PT	CHECKED: JFM	

INDIANA DEPARTMENT OF TRANSPORTATION
STRUCTURE 107 DETAIL

SCALE AS NOTED	ROAD FILE
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 43 of 106
CONTRACT R-42358	PROJECT 1900107

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- NOTE:**
1. Station And Offset Distances Are From Line 'A' unless Otherwise Noted.
 2. Spot Elevation Details Are To Be Considered Complete Units And Their Grades Determined Prior To Construction. Spot Elevations Govern Over Profile Grade And Typical Section.
 3. Back Of Curb Elevations Are Considered The Same As The Front Of Curb Elevation At Depressed Curbs. Grades On Curb Ramps Have Been Determined From The Back Of The Curb.

LEGEND:

	Clear Space (4'x4' Min.)
	Turning Space (4'x4' Min.)
	Ramp
	Detectable Warning Surface
	Pay Limits for Curb Ramps



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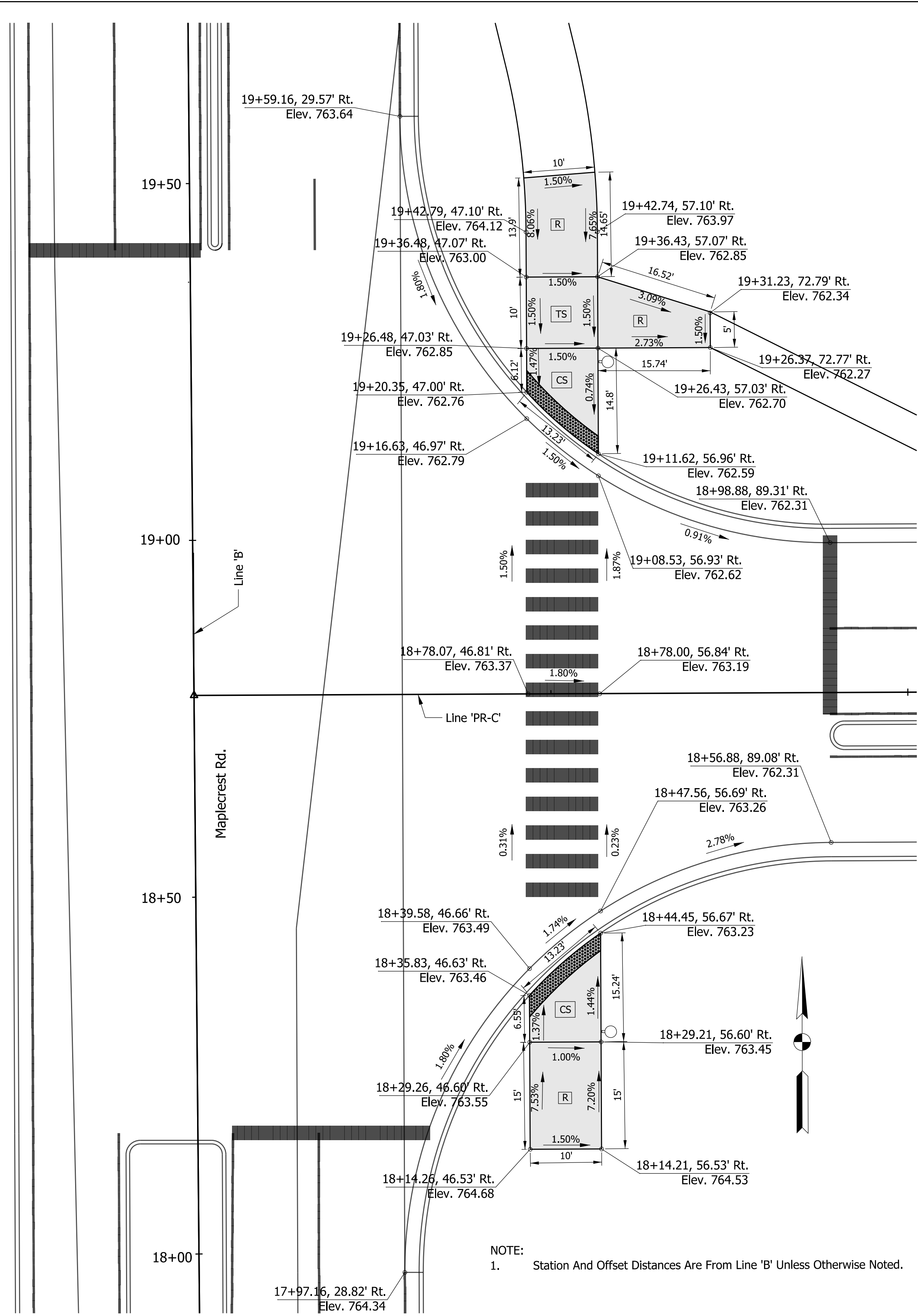
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

SPOT ELEVATION
SR 930 AND MAPLECREST RD.

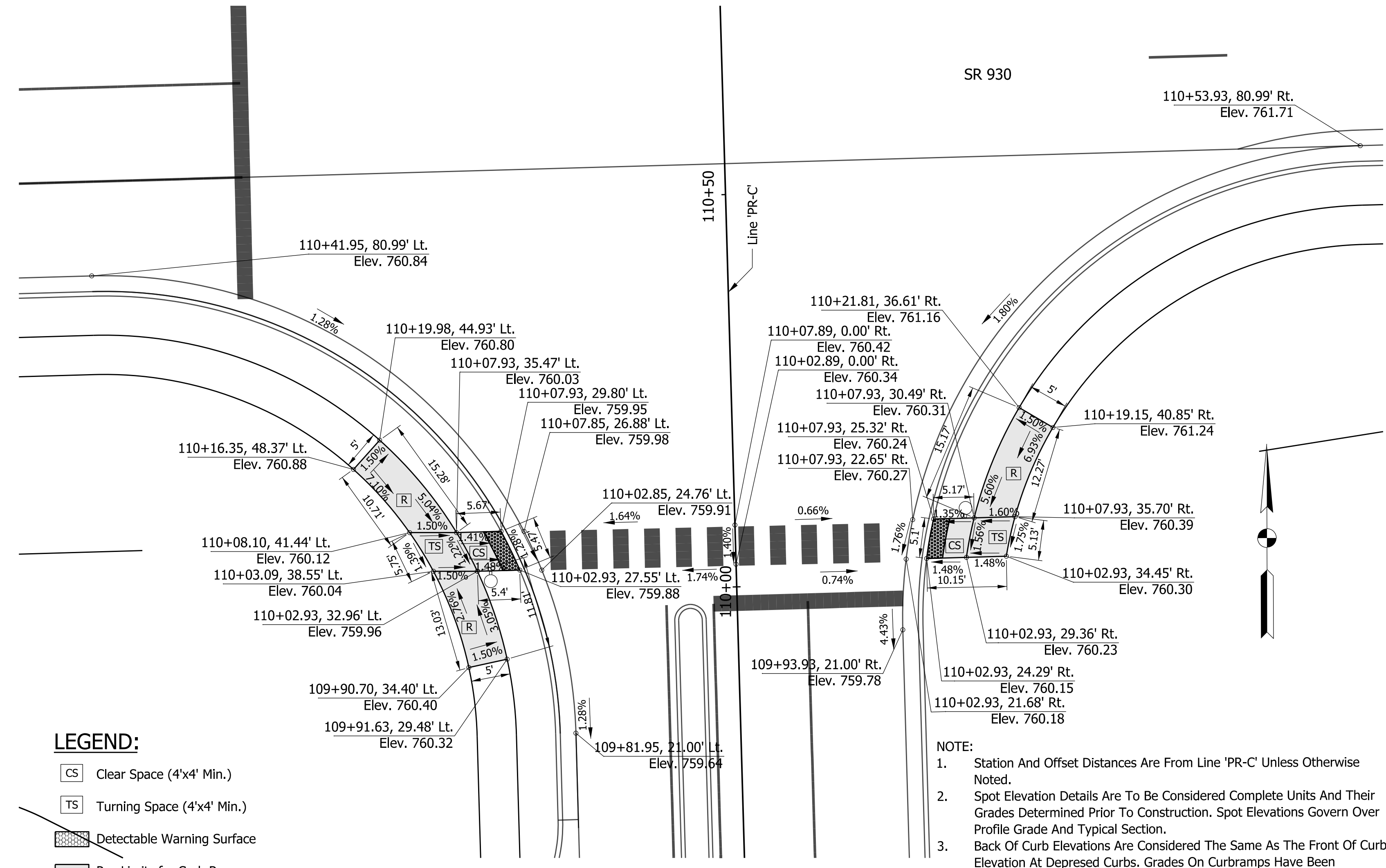
SCALE 1"=10'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 44 of 106
CONTRACT R-42358	PROJECT 1900107

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NOTE:
1. Station And Offset Distances Are From Line 'B' Unless Otherwise Noted.

- LEGEND:**
- CS Clear Space (4'x4' Min.)
 - TS Turning Space (4'x4' Min.)
 - Detectable Warning Surface
 - Pay Limits for Curb Ramps



NOTE:
1. Station And Offset Distances Are From Line 'PR-C' Unless Otherwise Noted.
2. Spot Elevation Details Are To Be Considered Complete Units And Their Grades Determined Prior To Construction. Spot Elevations Govern Over Profile Grade And Typical Section.
3. Back Of Curb Elevations Are Considered The Same As The Front Of Curb Elevation At Depressed Curbs. Grades On Curbsramps Have Been Determined From The Back Of The Curb.



NOT FOR CONSTRUCTION

DLZ INDIANA, LLC

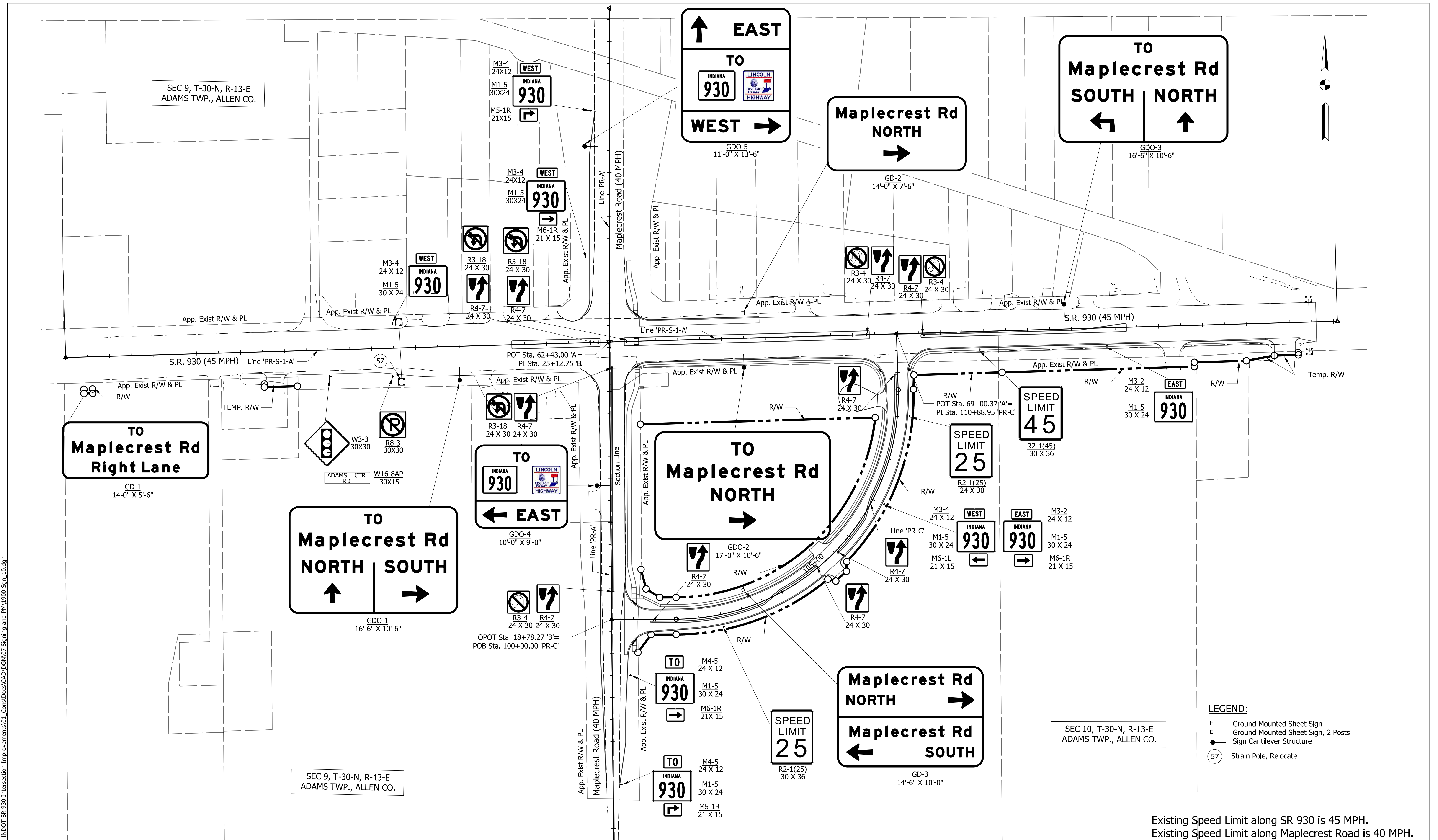
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

SPOT ELEVATION
MAPLECREST RD. AND 'PR-C', SR930 AND 'PR-C'

SCALE 1"=10'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 45 of 106
CONTRACT R-42358	PROJECT 1900107

X:\Projects\2020\2066\218090_INDOT SR 930_Intersection_Improvements\01_ConstDocs\CAD\IGN\07_Signing_and_PM\1900_Sgn_10.dgn



Existing Speed Limit along SR 930 is 45 MPH.
Existing Speed Limit along Maplecrest Road is 40 MPH.

- LEGEND:**
- ⊥ Ground Mounted Sheet Sign
 - ⊥ Ground Mounted Sheet Sign, 2 Posts
 - Sign Cantilever Structure
 - ⊙ Strain Pole, Relocate



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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
OVERALL SIGN LAYOUT DETAIL

SCALE 1"=100'	ROAD FILE
	DESIGNATION 1900107
SURVEY BOOK	SHEETS
ELECTRONIC	46 of 106
CONTRACT	PROJECT
R-42358	1900107

SIGN DETAIL
1:55

SIGN NUMBER	G00-3
WIDTH x HGT.	16'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type C	90	37.1	12.7	23.3	28.7
AR_Type B	0	138	13.2	20	22.8

Panel Style: guide_exp_advance_a.ssi
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE														
T	O		EM 2000														
88.7	99.2	20.6	12														
M	a	p	l	e	c	r	e	s	t	R	d					EM 2000	
12	30.9	47.8	63.4	71.5	85.6	101.1	111.5	125.3	139.2	159.6	175.5					174	16/12
S	O	U	T	H													EM 2000
14.9	30.2	46.4	61.2	75												72.3	15
N	O	R	T	H													EM 2000
112.2	127.9	144.1	157.9	171.7												71.7	15

SIGN DETAIL
1:50

SIGN NUMBER	G00-4
WIDTH x HGT.	10'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_16A	0	10	44.7	45	36
Lincoln	0	74	44.7	36	36
AR_Type A	90	10	7.7	20	31.5

Panel Style: guide_exp_advance_a.ssi
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE																	
T	O		EM 2000																	
49.7	60.2	20.6	12																	
E	A	S	T															EM 2000		
54.4	67.1	84.5	98.9																55.6	15

SIGN DETAIL
1:55

SIGN NUMBER	G00-5
WIDTH x HGT.	11'-0" x 13'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	0	12	120.5	20	31.5
M1_16A	0	20.5	50.5	45	36
Lincoln	0	75.5	50.5	36	36
AR_Type A	270	88.5	10	20	31.5

Panel Style: guide_exp_advance_a.ssi
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE																	
E	A	S	T																EM 2000	
64.3	77.1	94.5	108.9																55.6	15
T	O																		EM 2000	
54.8	65.4																		20.6	12
W	E	S	T																EM 2000	
12.6	31.2	45	59.4																57.9	15

SIGN DETAIL
1:50

SIGN NUMBER	G0-3
WIDTH x HGT.	14'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	270	131.5	70	20	31.5
AR_Type A	90	11	8	20	31.5

Panel Style: guide_exp_advance_a.ssi
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE																		
M	a	p	l	e	c	r	e	s	t	R	d									EM 2000	
14.6	30.2	44.3	57.2	64	75.7	88.6	97.3	108.7	120.3	137.5	150.7								144.9	13.3/10	
N	O	R	T	H																EM 2000	
11	23.6	36.6	47.6	58.7																57.4	12
M	a	p	l	e	c	r	e	s	t	R	d									EM 2000	
14.7	30.4	44.5	57.4	64.2	75.9	88.8	97.4	108.9	120.4	137.4	150.5								144.6	13.3/10	
S	O	U	T	H																EM 2000	
105	117.2	130.2	142.1	153.1																57.8	12



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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE _____
DESIGNED: JWH DRAWN: DPH
CHECKED: FS CHECKED: JWH

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

SCALE	ROAD FILE
1:50	
	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	47 of 106
CONTRACT	PROJECT
R-42358	1900107

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SIGN DETAIL
1:50

SIGN NUMBER	D3-1(1)
WIDTH x HGT.	9'-6" x 2'-6"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: D-3.ssi
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES/SIZE
S	R	9	3	0		98	EM 2000
8	27.1	55.4	72.7	90.9			18

SIGN DETAIL
1:50

SIGN NUMBER	D3-1(2)
WIDTH x HGT.	12'-6" x 2'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: D-3.ssi
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE	
M	a	p	l	e	c	r	e	s	t	R	d		EM 2000
9.8	23.9	36.7	48.3	54.4	65	76.6	84.4	94.7	105.2	120.4	132.3	130.4	12/9



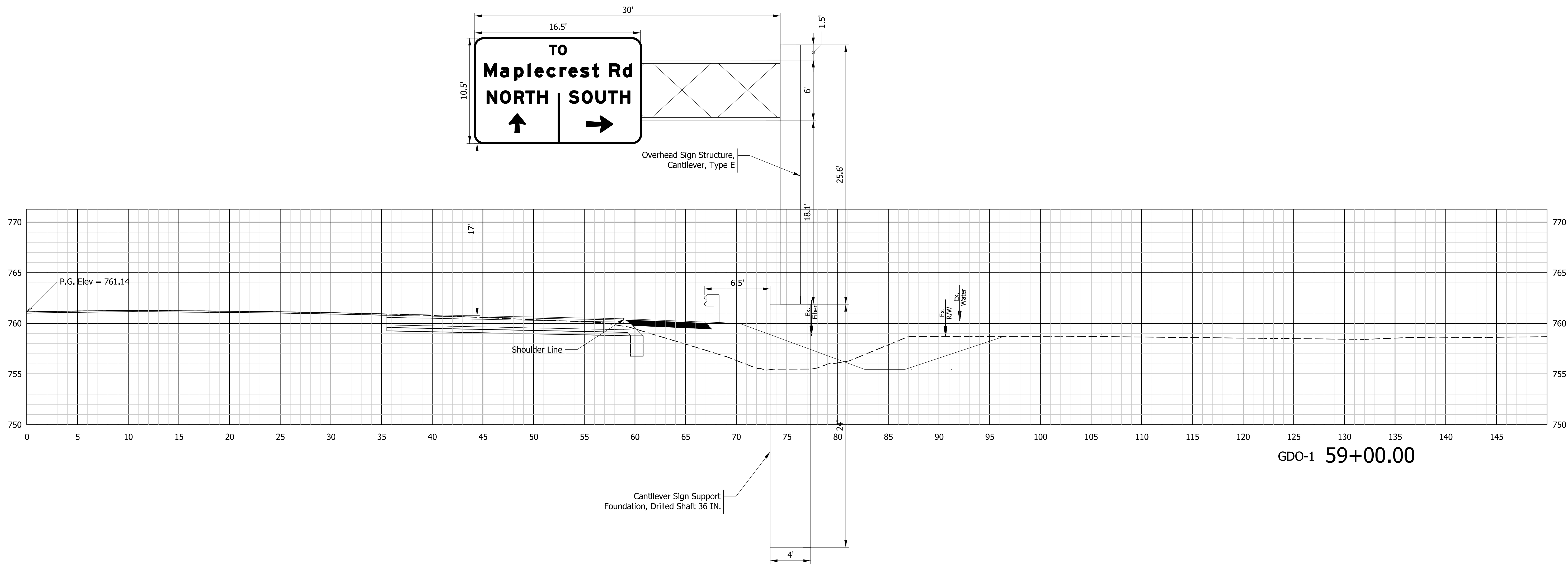
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH _____	DRAWN: DPH _____	
CHECKED: FS _____	CHECKED: JWH _____	

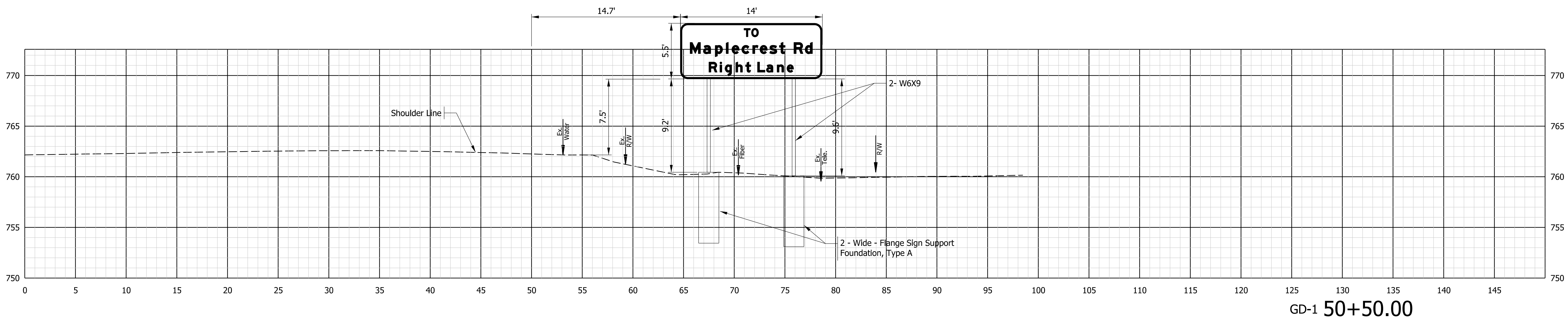
INDIANA DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

SCALE 1:50	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 49 of 106
CONTRACT R-42358	PROJECT 1900107



GDO-1 59+00.00



GD-1 50+50.00

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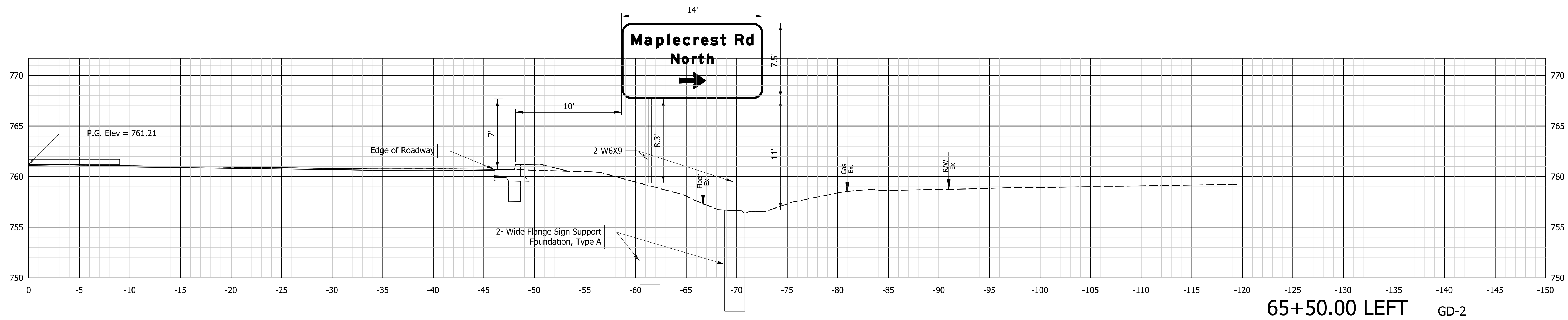
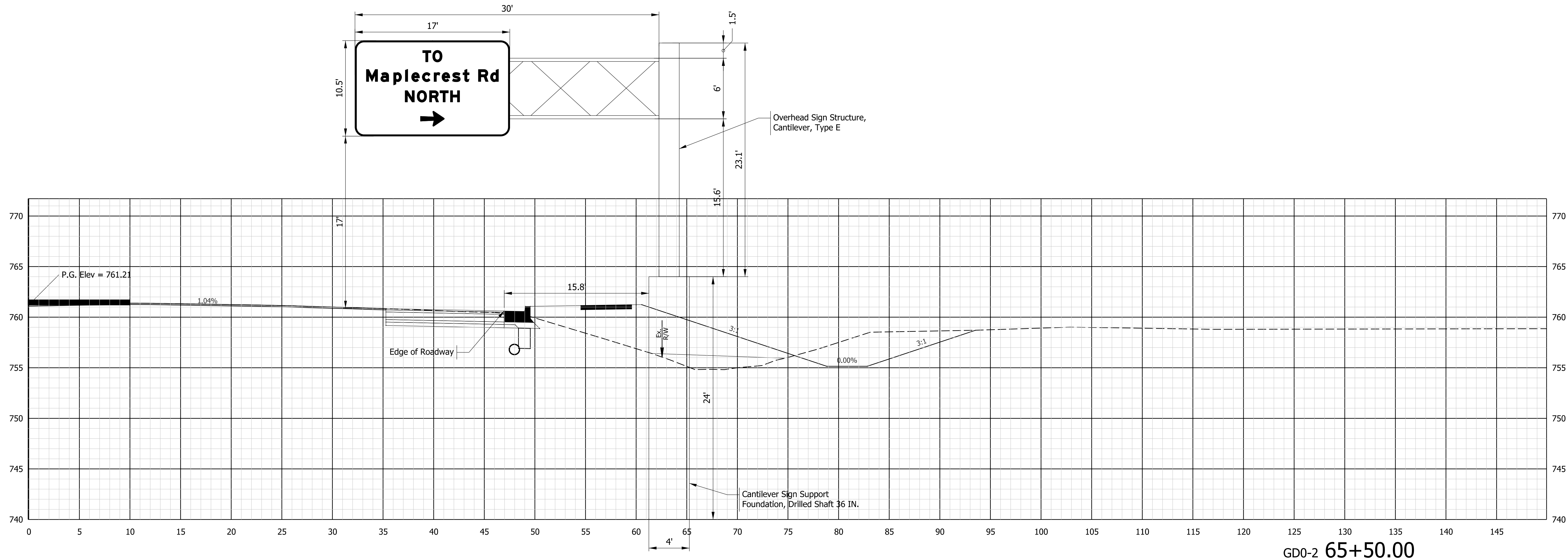
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

LINE 'A'
SIGN DETAIL

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 50 of 106
CONTRACT R-42358	PROJECT 1900107

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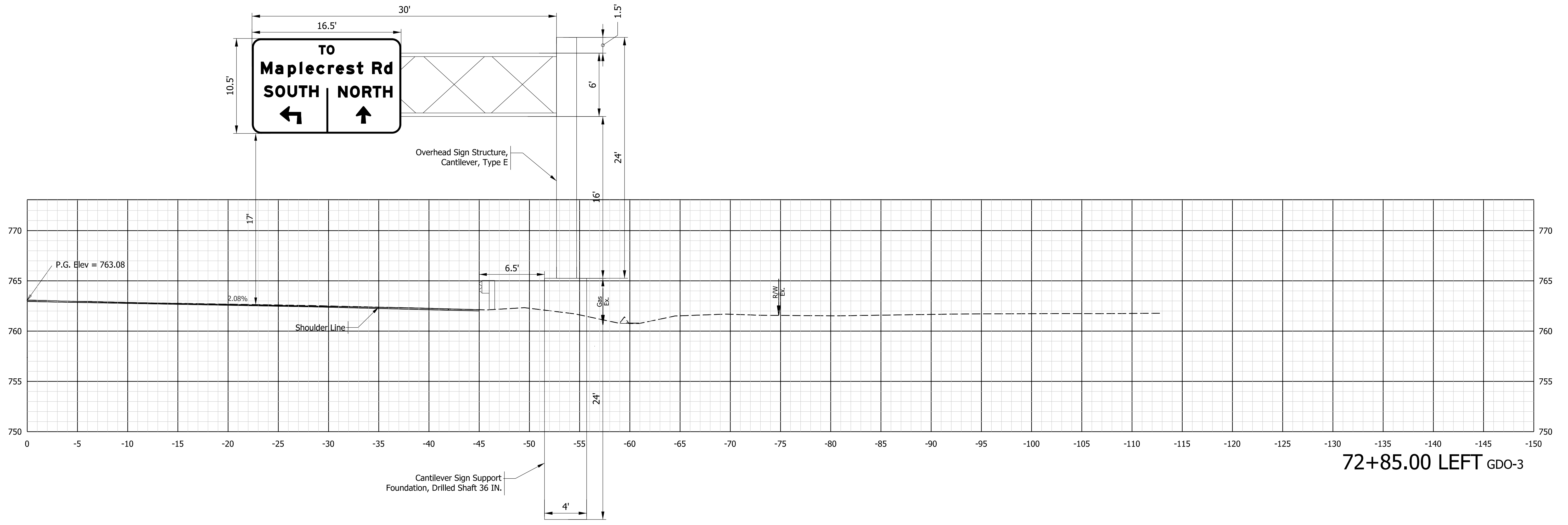
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

LINE 'A'
SIGN DETAIL

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 51 of 106
CONTRACT R-42358	PROJECT 1900107

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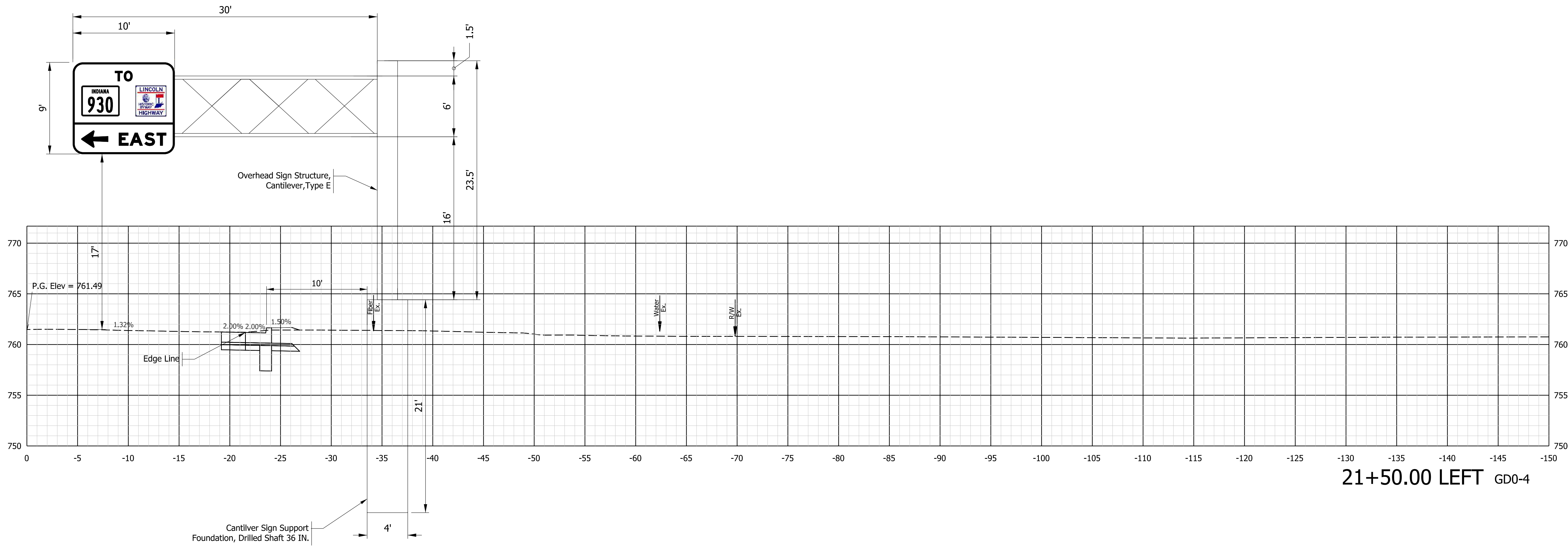
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
LINE 'A' SIGN DETAIL

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 52 of 106
CONTRACT R-42358	PROJECT 1900107

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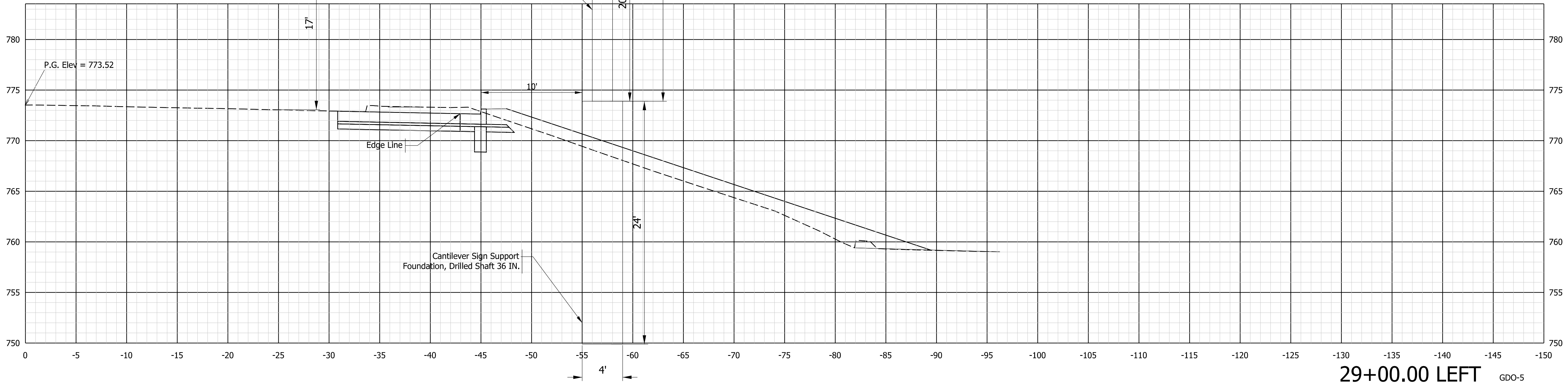
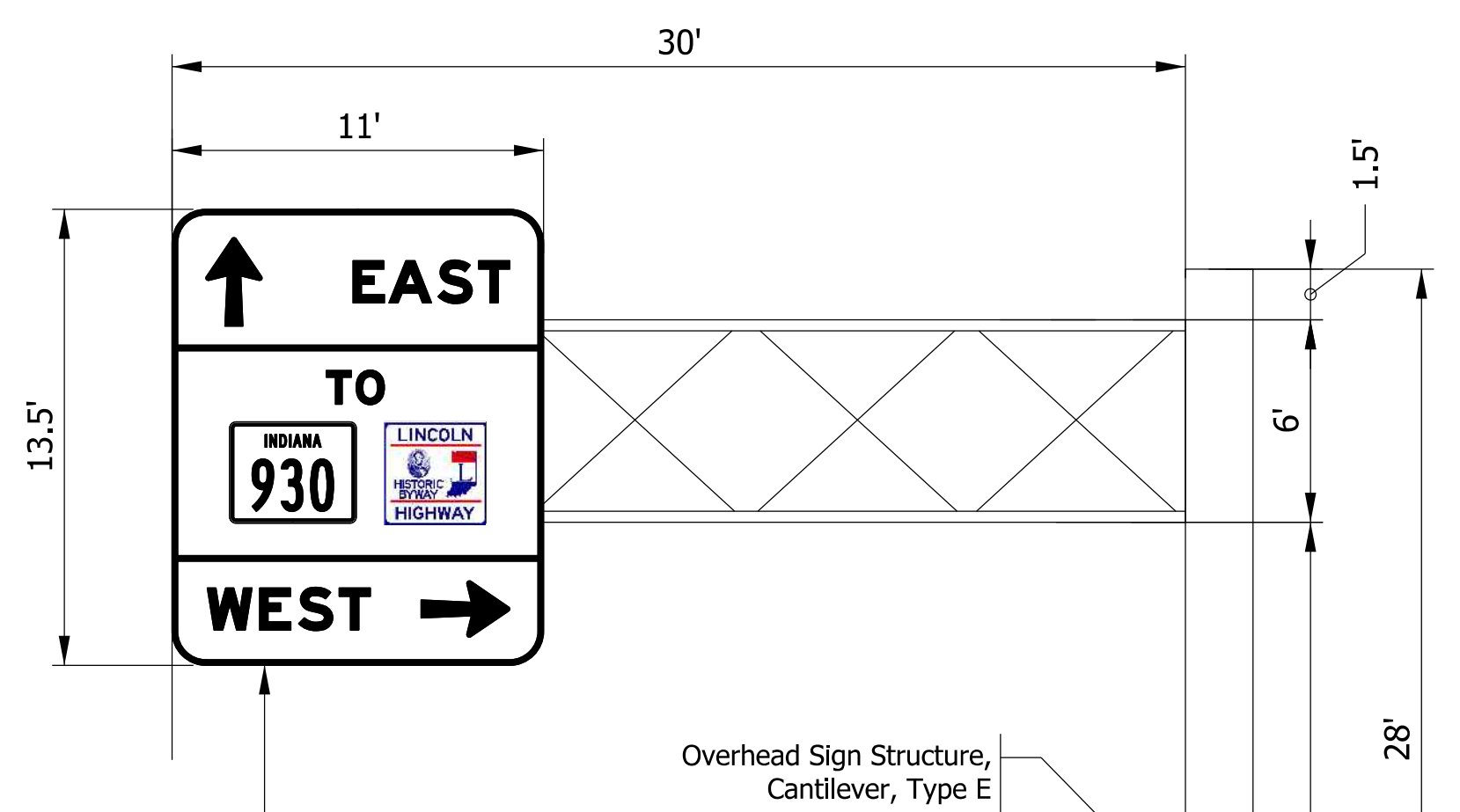
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DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

LINE 'B'
SIGN DETAIL

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 53 of 106
CONTRACT R-42358	PROJECT 1900107

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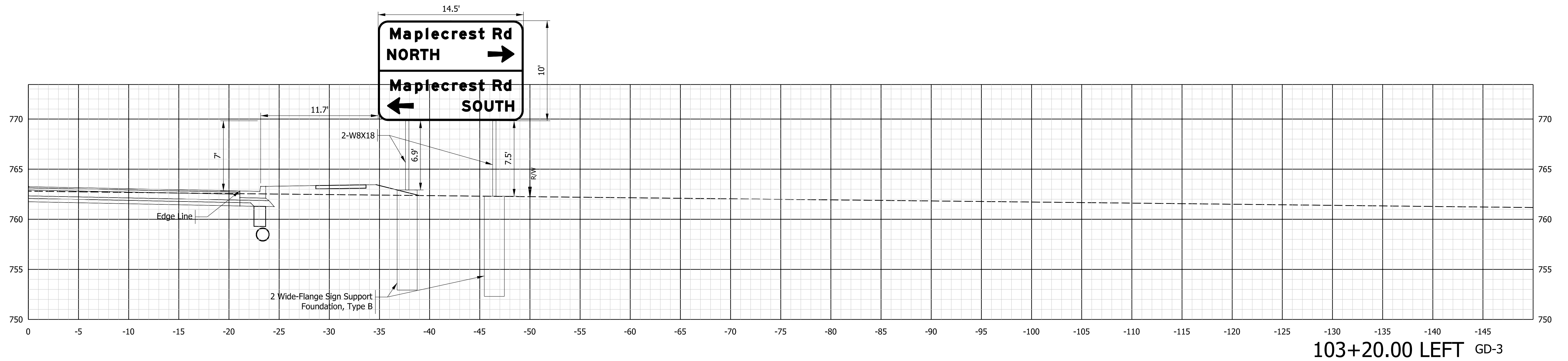
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DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

LINE 'B'
SIGN DETAIL

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 54 of 106
CONTRACT R-42358	PROJECT 1900107

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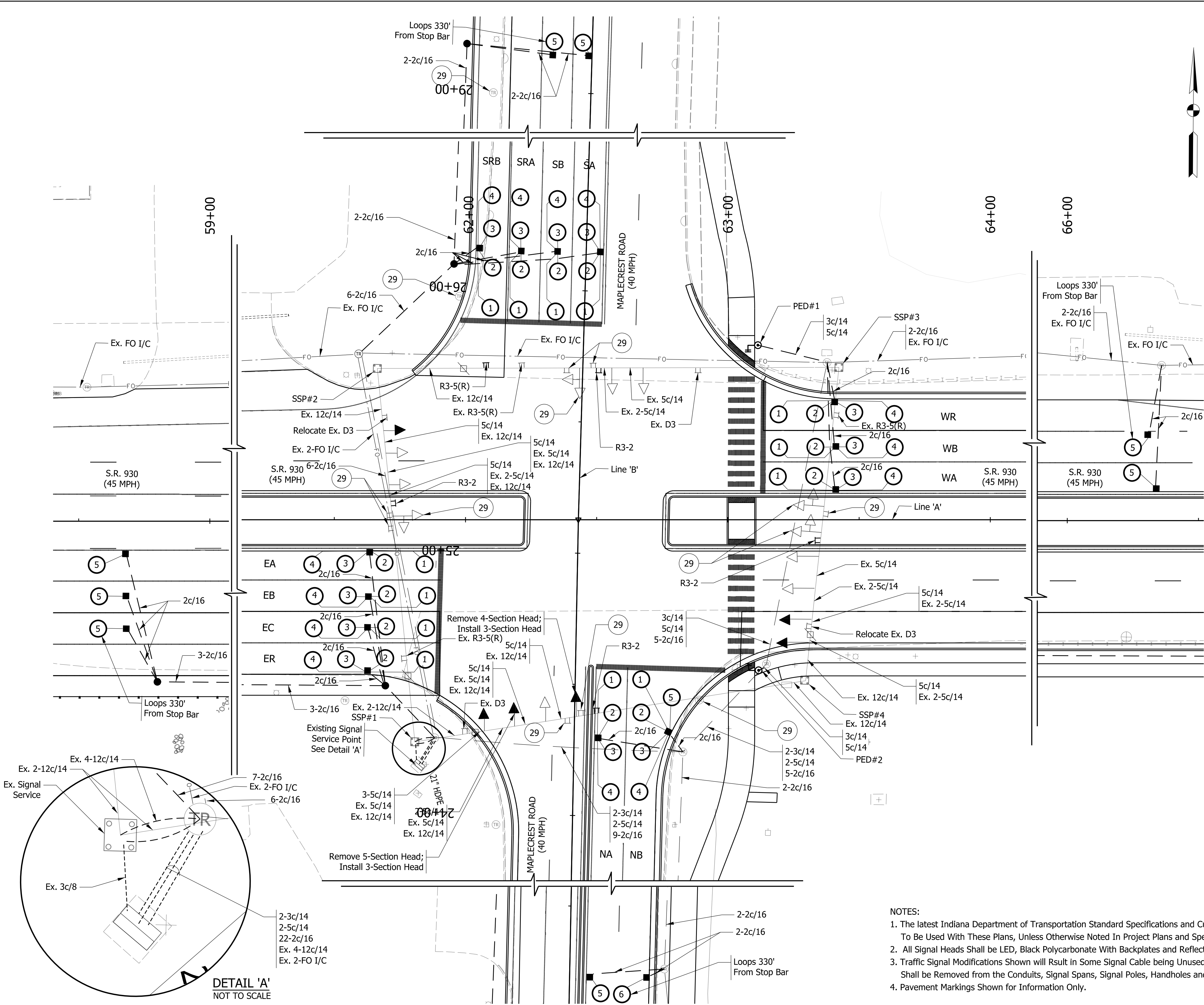
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

LINE 'PR-C'
SIGN DETAIL

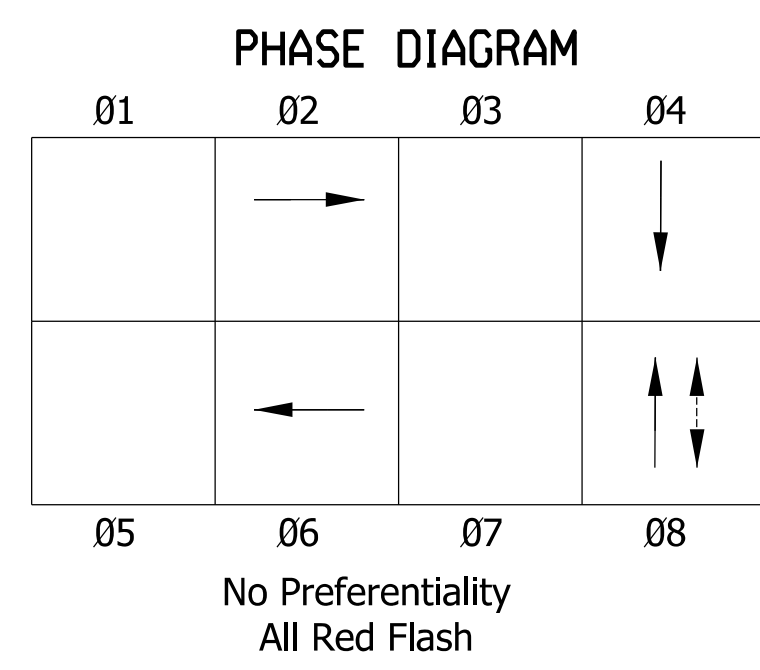
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	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 55 of 106
CONTRACT R-42358	PROJECT 1900107

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FOUNDATION SCHEDULE					
FOUNDATION	LINE	STATION	OFFSET	SIGNAL	SUPPORT
PED#1	'A'	63+11.32	66.5' Lt.		
PED#2	'A'	63+11.55	67.0' Rt.		

SIGN LEGEND		
SIGN	DESCRIPTION	SIZE
R3-2	"NO LEFT TURN" Symbol	36x36
R3-5 (L or R)	"MANDATORY MOVEMENT" Symbol	30x36



LOOP TAGGING TABLE	
EA	EA2-1,2,3,4
EA	EA2-5
EB	EB2-1,2,3,4
EB	EB2-5
EC	EC2-1,2,3,4
EC	EC2-5
ER	ER2-1,2,3,4
WA	WA6-1,2,3,4
WA	WA6-5
WB	WB6-1,2,3,4
WB	WB6-5
WR	WR6-1,2,3,4
NA	NA8-1,2,3,4
NA	NA8-5
NB	NB8-1,2,3,4,5
NB	NB8-6
SA	SA4-1,2,3,4
SA	SA4-5
SB	SB4-1,2,3,4
SB	SB4-5
SRA	SRA4-1,2,3,4
SRB	SRB4-1,2,3,4

- LEGEND**
- ⊘ 29 Remove
 - ⊘ Existing Disconnect Hanger
 - ⊘ Sign Mounted on Span and Catenary
 - ⊘ Existing Steel Strain Pole and Foundation
 - ⊘ Existing TS-2 Type 1 Secondary Controller And P Cabinet On Existing P-1 Foundation.
 - ⊘ Existing 1 Way 3-Section (12" Red, 12" Amber, 12" Green) LED Signal Indication with Backplate
 - ⊘ Existing Span, Catenary, and Tether
 - ⊘ Existing Steel Conduit
 - ⊘ Proposed Loop Detector 6' Diameter Loop 4-Turn, Wired in Series
 - ⊘ Proposed Signal Detector Housing
 - ⊘ Proposed 1 Way 3-Section (12" Red, 12" Amber, 12" Green) LED Signal Indication with Backplate
 - ⊘ Proposed 10' Pedestal Pole and Base on New Foundation
 - ⊘ Proposed 18" LED Pedestrian Signal Indicator, With Countdown Timer, APS Push Button
 - ⊘ Proposed Signal Handhole
 - ⊘ Proposed 2" Galvanized Steel Conduit

- NOTES:**
- The latest Indiana Department of Transportation Standard Specifications and Current Supplements Thereto To Be Used With These Plans, Unless Otherwise Noted In Project Plans and Specifications.
 - All Signal Heads Shall be LED, Black Polycarbonate With Backplates and Reflective Tape.
 - Traffic Signal Modifications Shown will Result in Some Signal Cable being Unused. All Unused Cables Shall be Removed from the Conduits, Signal Spans, Signal Poles, Handholes and Cabinet.
 - Pavement Markings Shown for Information Only.

DETAIL 'A'
NOT TO SCALE

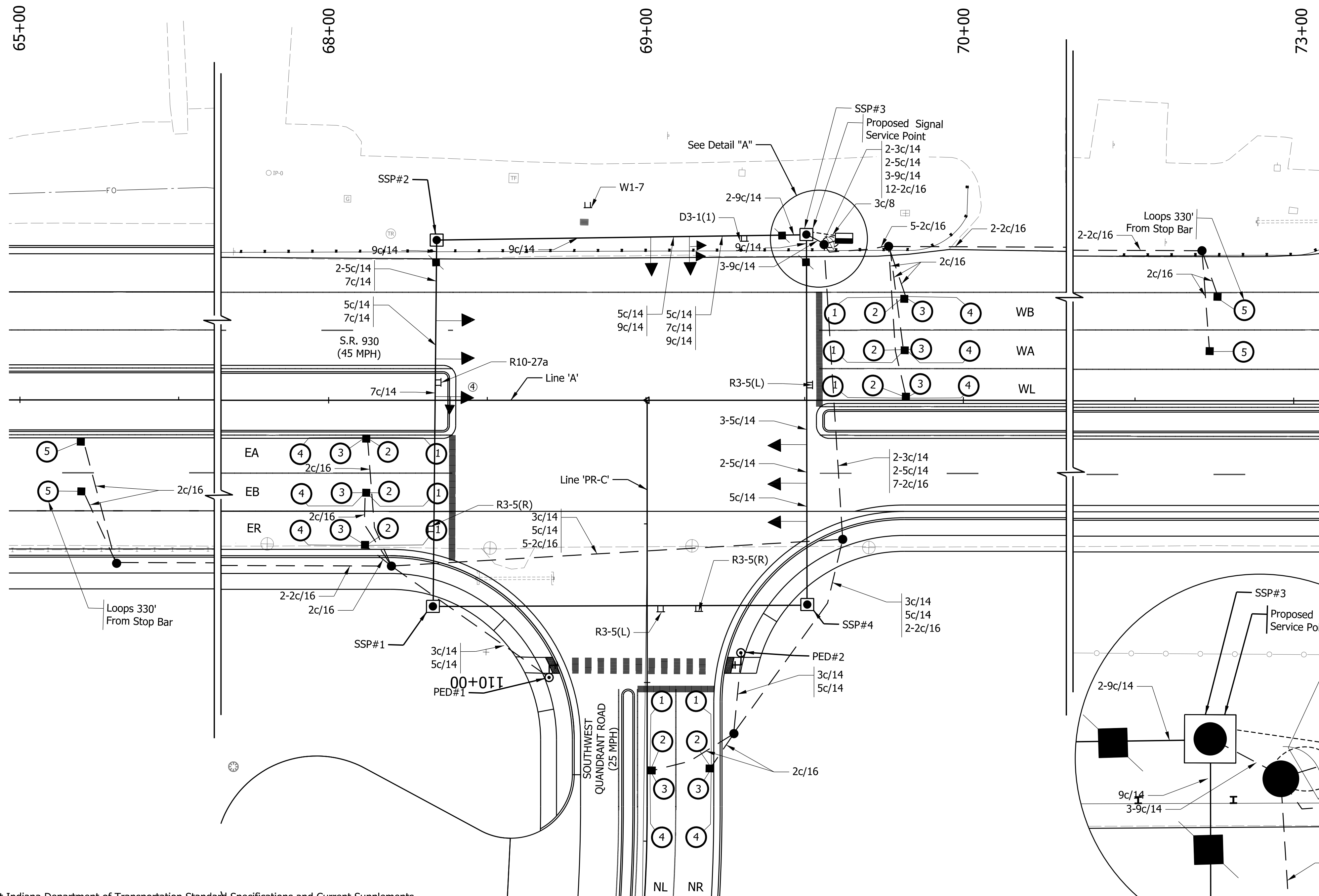
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JRS	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

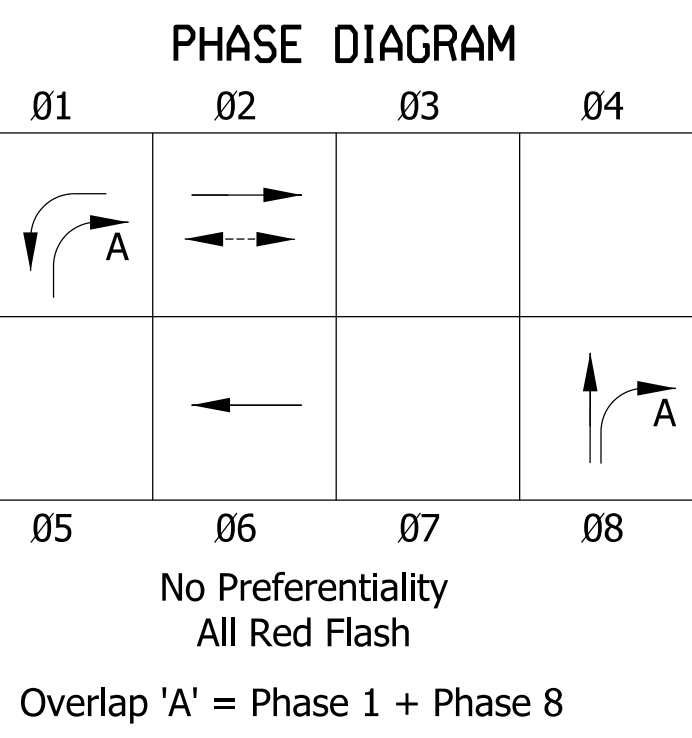
SIGNAL PLAN
S.R. 930 @ MAPLECREST ROAD

SCALE	ROAD FILE
1"=20'	
	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	56 of 106
CONTRACT	PROJECT
R-42358	1900107



FOUNDATION SCHEDULE					
FOUNDATION	LINE	STATION	OFFSET	SIGNAL	SUPPORT
SSP#1	'A'	68+32.00	65.0' Rt.		
SSP#2	'A'	68+34.00	50.5' Lt.		
SSP#3	'A'	69+50.50	52.0' Lt.		
SSP#4	'A'	69+51.00	64.0' Rt.		
PED#1	'A'	68+65.00	79.5' Rt.		
PED#2	'A'	69+29.50	79.5' Rt.		
CONTROLLER	'A'	69+63.00	51.0' Lt.		

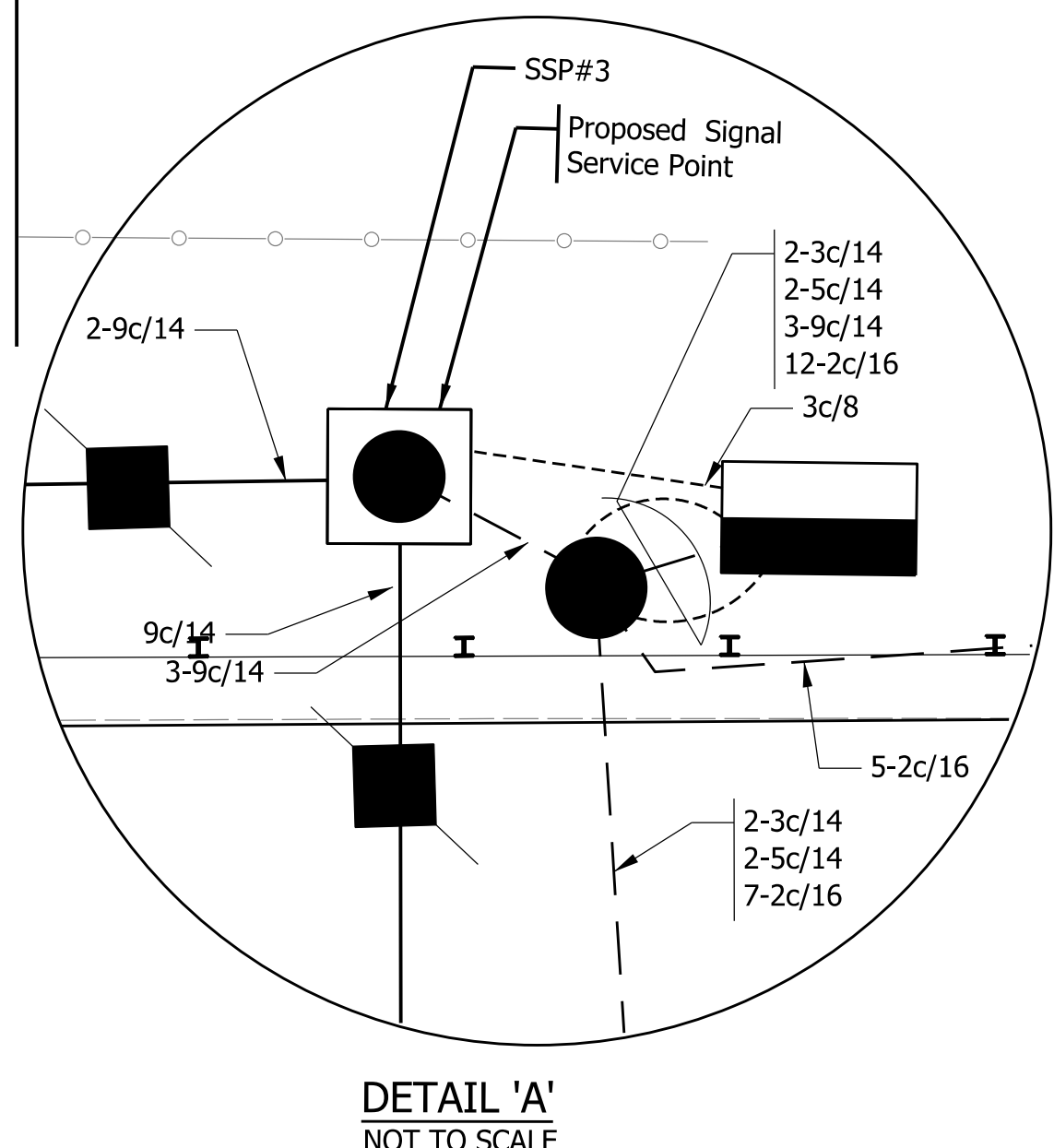
SIGN LEGEND		
SIGN	DESCRIPTION	SIZE
R3-5 (L or R)	"MANDATORY MOVEMENT" Symbol	30x36
R10-27a	"LEFT TURN YIELD ON FLASHING YELLOW ARROW"	30x36



LOOP TAGGING TABLE	
EA	EA2-1,2,3,4
EA	EA2-5
EB	EB2-1,2,3,4
EB	EB2-5
ER	ER2-1,2,3,4
WA	WA6-1,2,3,4
WA	WA6-5
WB	WB6-1,2,3,4
WB	WB6-5
WL	WL1-1,2,3,4
NL	NL8-1,2,3,4
NR	NR8-1,2,3,4

- LEGEND**
- Proposed Disconnect Hanger
 - Proposed Loop Detector 6' Diameter Loop 4-Turn, Wired in Series
 - Sign Mounted on Span and Catenary
 - Proposed Signal Detector Housing
 - Proposed 30' Steel Strain Pole And Foundation
 - 1 Way 3-Section (12" Red, 12" Amber, 12" Green) LED Signal Indication with Backplate
 - 1 Way, 4-Section (12" Red Arrow, 12" Amber Arrow, 12" Flashing Amber Arrow, 12" Green Arrow) LED Signal Indication with Backplate
 - 1 Way, 5-Section (12" Red, 12" Amber, 12" Green, 12" Amber Arrow, 12" Green Arrow) LED Signal Indication with Backplate
 - TS-2 Type 1 Secondary Controller And P Cabinet On New P-1 Foundation.
 - Proposed 10' Pedestal Pole and Base on New Foundation
 - Proposed 18" LED Pedestrian Signal Indicator, With Countdown Timer, APS Push Button, and R10-4 (9"x15") Sign
 - Proposed Signal Handhole
 - Proposed Span, Catenary, and Tether
 - Proposed 2" Galvanized Steel Conduit

- NOTES:**
- The Latest Indiana Department of Transportation Standard Specifications and Current Supplements Thereto To Be Used With These Plans, Unless Otherwise Noted In Project Plans and Specifications.
 - All Signal Heads Shall be LED, Black Polycarbonate With Backplates and Reflective Tape.
 - Signal Strain Poles Shall Be Per INDOT Standards.
 - Pavement Markings Shown for Information Only.



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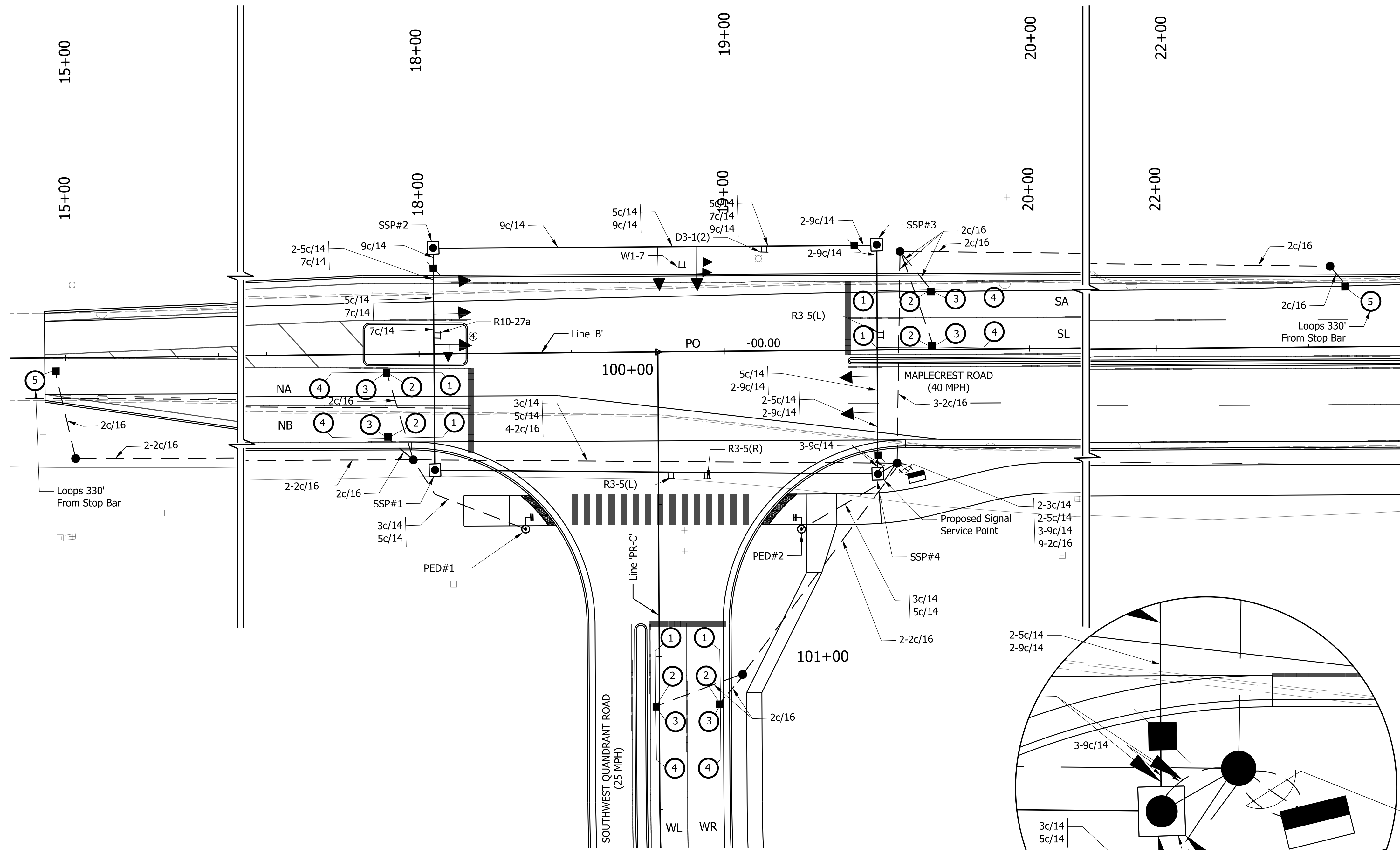
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JRS	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
SIGNAL PLAN
S.R. 930 & SOUTHWEST QUADRANT RD.

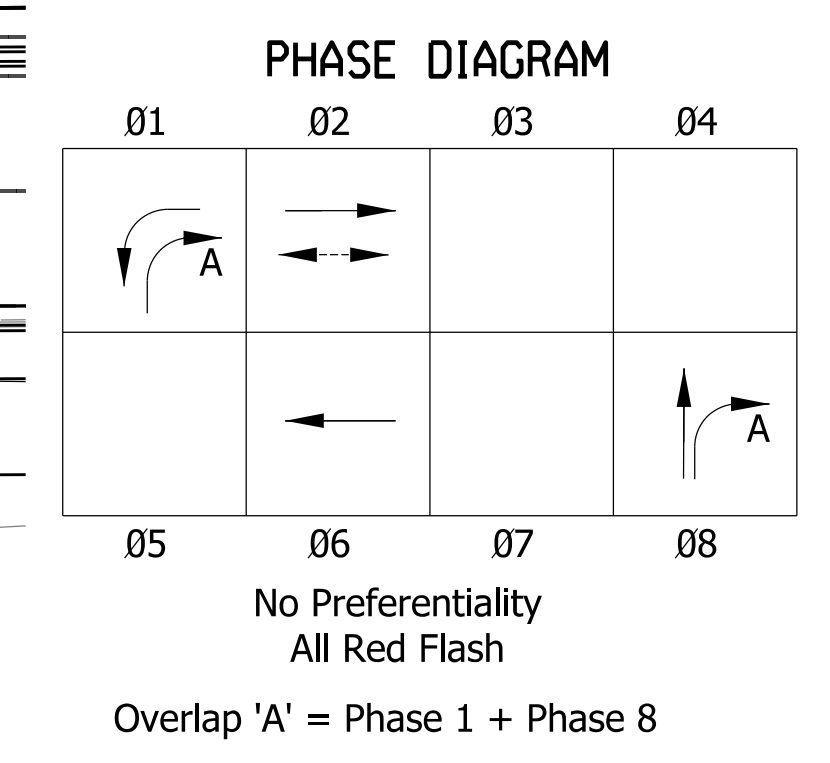
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SURVEY BOOK	SHEETS
ELECTRONIC	57 of 106
CONTRACT	PROJECT
R-42358	1900107

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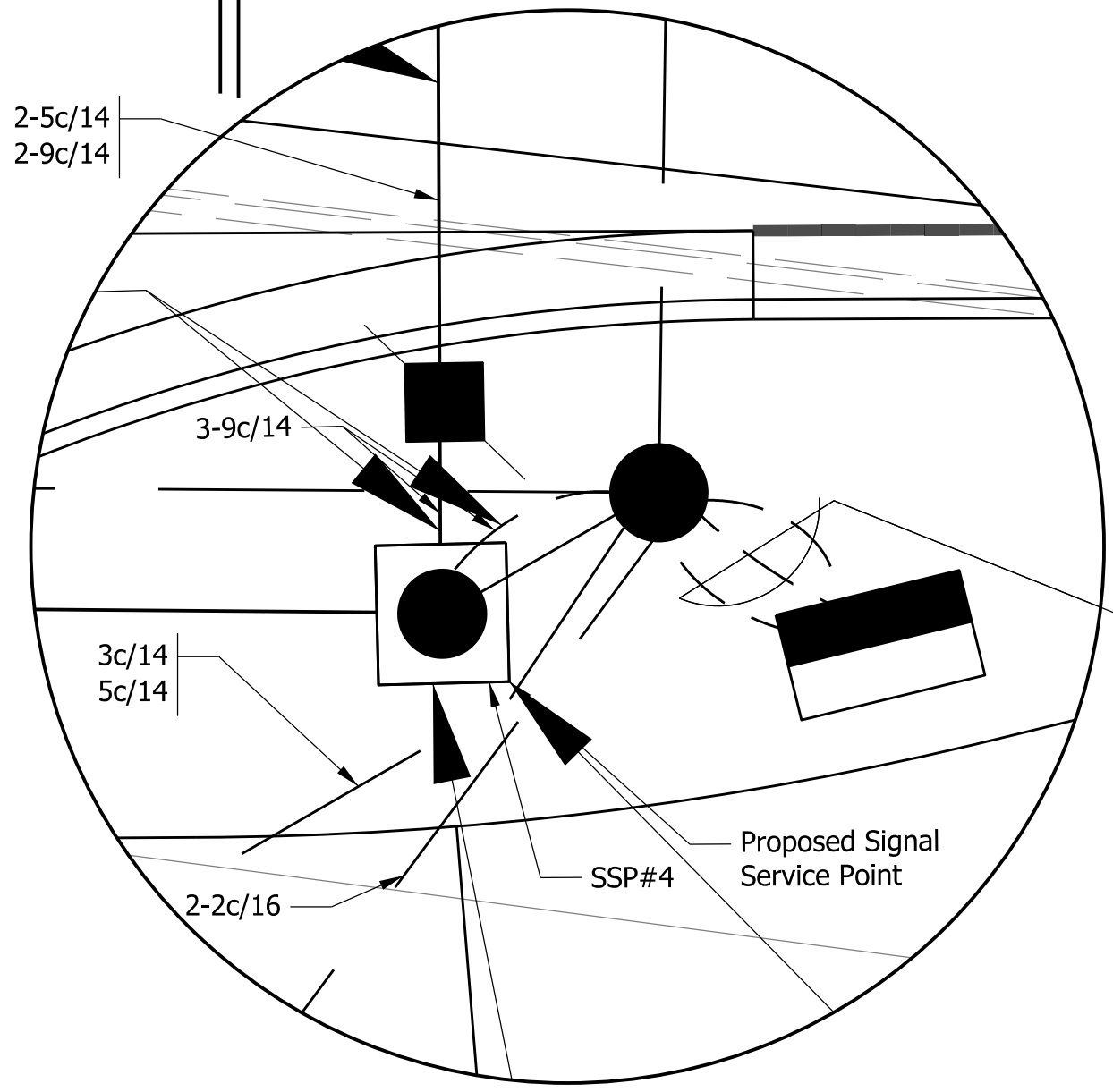


FOUNDATION SCHEDULE					
FOUNDATION	LINE	STATION	OFFSET	SIGNAL	SUPPORT
SSP#1	'B'	18+05.00	38.0' Rt.		
SSP#2	'B'	18+05.00	34.75' Lt.		
SSP#3	'B'	18+50.00	34.5' Lt.		
SSP#4	'B'	19+50.00	40.6' Rt.		
PED#1	'B'	18+25.00	58.0' Rt.		
PED#2	'B'	19+24.75	58.5' Rt.		
CONTROLLER	'B'	19+63.00	41.0' Rt.		

SIGN LEGEND		
SIGN	DESCRIPTION	SIZE
R3-5 (L or R)	"MANDATORY MOVEMENT" Symbol	30x36
R10-27a	"LEFT TURN YIELD ON FLASHING YELLOW ARROW"	30x36



LOOP TAGGING TABLE	
NA	NA2-1,2,3,4
NA	NA2-5
NB	NB2-1,2,3,4
SA	SA6-1,2,3,4
SA	SA6-5
SL	SL1-1,2,3,4
WL	WL8-1,2,3,4
WR	WL8-1,2,3,4



DETAIL 'A'
NOT TO SCALE

- NOTES:**
- The Latest Indiana Department of Transportation Standard Specifications and Current Supplements Thereto To Be Used With These Plans, Unless Otherwise Noted In Project Plans and Specifications.
 - All Signal Heads Shall be LED, Black Polycarbonate With Backplates and Reflective Tape.
 - Signal Strain Poles Shall Be Per INDOT Standards.
 - Pavement Markings Shown for Information Only.

- LEGEND**
- Proposed Disconnect Hanger
 - Proposed Loop Detector 6' Diameter Loop 4-Turn, Wired in Series
 - Sign Mounted on Span and Catenary
 - Proposed Signal Detector Housing
 - Proposed 30' Steel Strain Pole And Foundation
 - 1 Way 3-Section (12" Red, 12" Amber, 12" Green) LED Signal Indication with Backplate
 - 1 Way, 4-Section (12" Red Arrow, 12" Amber Arrow, 12" Flashing Amber Arrow, 12" Green Arrow) LED Signal Indication with Backplate
 - 1 Way, 5-Section (12" Red, 12" Amber, 12" Green, 12" Amber Arrow, 12" Green Arrow) LED Signal Indication with Backplate
 - TS-2 Type 1 Secondary Controller And P Cabinet On New P-1 Foundation.
 - Proposed 18" LED Pedestrian Signal Indicator, With Countdown Timer, APS Push Button, and R10-4 (9"x15") Sign Proposed 10' Pedestal Pole and Base on New Foundation
 - Proposed Signal Handhole
 - Proposed Span, Catenary, and Tether
 - Proposed 2" Galvanized Steel Conduit

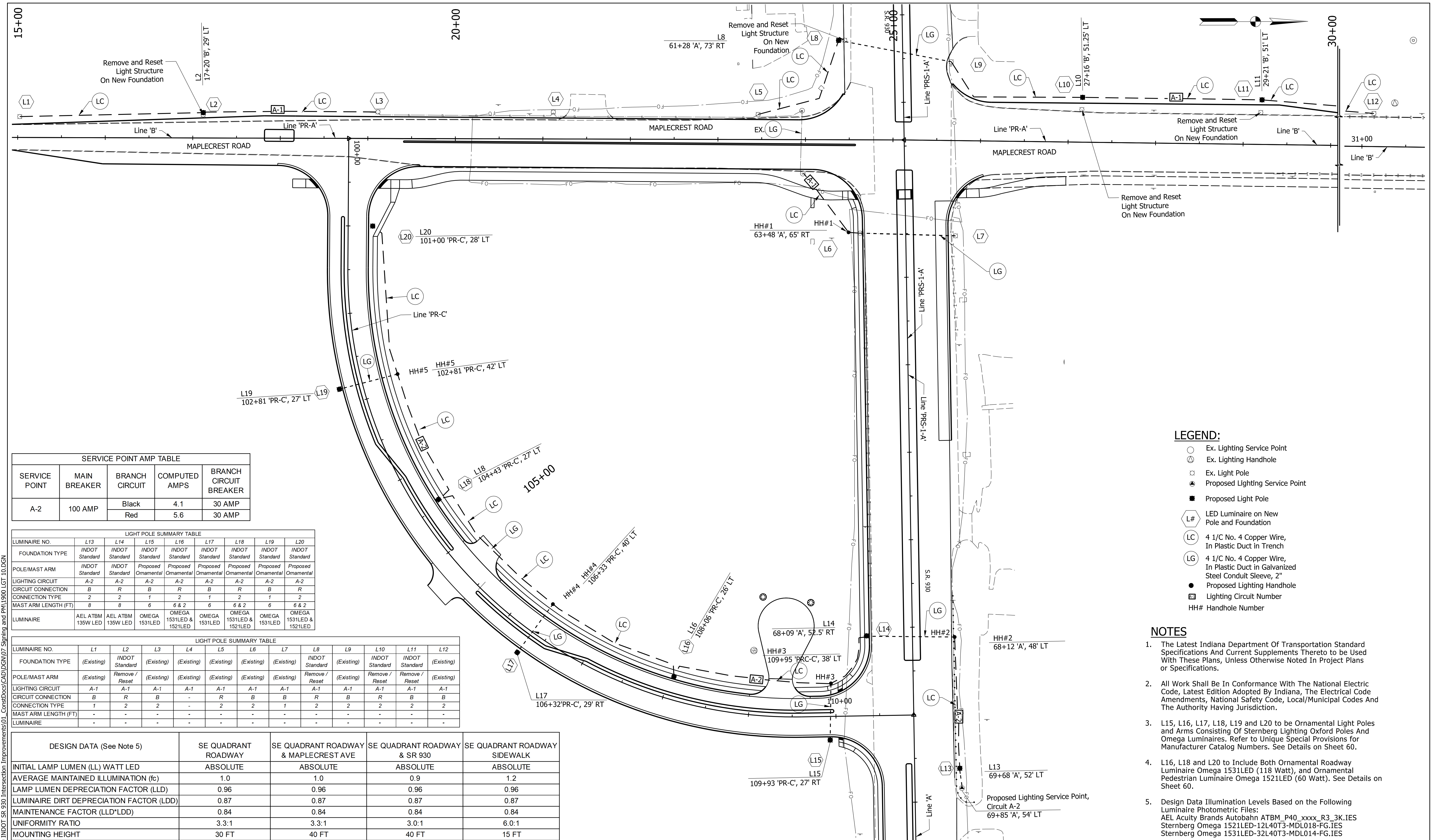


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DESIGNED: JRS	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
SIGNAL PLAN
MAPLECREST RD. @ SOUTHWEST QUADRANT RD.

SCALE	ROAD FILE
1"=20'	
	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	58 of 106
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SERVICE POINT AMP TABLE				
SERVICE POINT	MAIN BREAKER	BRANCH CIRCUIT	COMPUTED AMPS	BRANCH CIRCUIT BREAKER
A-2	100 AMP	Black	4.1	30 AMP
		Red	5.6	30 AMP

LIGHT POLE SUMMARY TABLE								
LUMINAIRE NO.	L13	L14	L15	L16	L17	L18	L19	L20
FOUNDATION TYPE	INDOT Standard	INDOT Standard	INDOT Standard	INDOT Standard	INDOT Standard	INDOT Standard	INDOT Standard	INDOT Standard
POLE/MAST ARM	INDOT Standard	INDOT Standard	Proposed Ornamental	Proposed Ornamental	Proposed Ornamental	Proposed Ornamental	Proposed Ornamental	Proposed Ornamental
LIGHTING CIRCUIT	A-2	A-2	A-2	A-2	A-2	A-2	A-2	A-2
CIRCUIT CONNECTION	B	R	B	R	B	R	B	R
CONNECTION TYPE	2	2	1	2	1	2	1	2
MAST ARM LENGTH (FT)	8	8	6	6 & 2	6	6 & 2	6	6 & 2
LUMINAIRE	AEL ATBM 135W LED	AEL ATBM 135W LED	OMEGA 1531LED	OMEGA 1531LED & 1521LED	OMEGA 1531LED	OMEGA 1531LED & 1521LED	OMEGA 1531LED	OMEGA 1531LED & 1521LED

LIGHT POLE SUMMARY TABLE												
LUMINAIRE NO.	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
FOUNDATION TYPE	(Existing)	INDOT Standard	(Existing)	(Existing)	(Existing)	(Existing)	(Existing)	INDOT Standard	(Existing)	INDOT Standard	INDOT Standard	(Existing)
POLE/MAST ARM	(Existing)	Remove / Reset	(Existing)	(Existing)	(Existing)	(Existing)	(Existing)	Remove / Reset	(Existing)	Remove / Reset	Remove / Reset	(Existing)
LIGHTING CIRCUIT	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1
CIRCUIT CONNECTION	B	R	B	-	R	B	B	R	B	R	B	B
CONNECTION TYPE	1	2	2	-	2	2	1	2	2	2	2	2
MAST ARM LENGTH (FT)	-	-	-	-	-	-	-	-	-	-	-	-
LUMINAIRE	-	-	-	-	-	-	-	-	-	-	-	-

DESIGN DATA (See Note 5)	SE QUADRANT ROADWAY	SE QUADRANT ROADWAY & MAPLECREST AVE	SE QUADRANT ROADWAY & SR 930	SE QUADRANT ROADWAY SIDEWALK
INITIAL LAMP LUMEN (LL) WATT LED	ABSOLUTE	ABSOLUTE	ABSOLUTE	ABSOLUTE
AVERAGE MAINTAINED ILLUMINATION (fc)	1.0	1.0	0.9	1.2
LAMP LUMEN DEPRECIATION FACTOR (LLD)	0.96	0.96	0.96	0.96
LUMINAIRE DIRT DEPRECIATION FACTOR (LDD)	0.87	0.87	0.87	0.87
MAINTENANCE FACTOR (LLD*LDD)	0.84	0.84	0.84	0.84
UNIFORMITY RATIO	3.3:1	3.3:1	3.0:1	6.0:1
MOUNTING HEIGHT	30 FT	40 FT	40 FT	15 FT

LEGEND:

- Ex. Lighting Service Point
- Ex. Lighting Handhole
- Ex. Light Pole
- Proposed Lighting Service Point
- Proposed Light Pole
- L# LED Luminaire on New Pole and Foundation
- LC 4 1/2 No. 4 Copper Wire, In Plastic Duct in Trench
- LG 4 1/2 No. 4 Copper Wire, In Plastic Duct in Galvanized Steel Conduit Sleeve, 2"
- Proposed Lighting Handhole
- Lighting Circuit Number
- HH# Handhole Number

NOTES

1. The Latest Indiana Department Of Transportation Standard Specifications And Current Supplements Thereto to be Used With These Plans, Unless Otherwise Noted In Project Plans or Specifications.
2. All Work Shall Be In Conformance With The National Electric Code, Latest Edition Adopted By Indiana, The Electrical Code Amendments, National Safety Code, Local/Municipal Codes And The Authority Having Jurisdiction.
3. L15, L16, L17, L18, L19 and L20 to be Ornamental Light Poles and Arms Consisting Of Sternberg Lighting Oxford Poles And Omega Luminaires. Refer to Unique Special Provisions for Manufacturer Catalog Numbers. See Details on Sheet 60.
4. L16, L18 and L20 to Include Both Ornamental Roadway Luminaire Omega 1531LED (118 Watt), and Ornamental Pedestrian Luminaire Omega 1521LED (60 Watt). See Details on Sheet 60.
5. Design Data Illumination Levels Based on the Following Luminaire Photometric Files:
 AEL Acuity Brands Autobahn ATBM_P40_xxxx_R3_3K.IES
 Sternberg Omega 1521LED-12L40T3-MDL018-FG.IES
 Sternberg Omega 1531LED-32L40T3-MDL014-FG.IES

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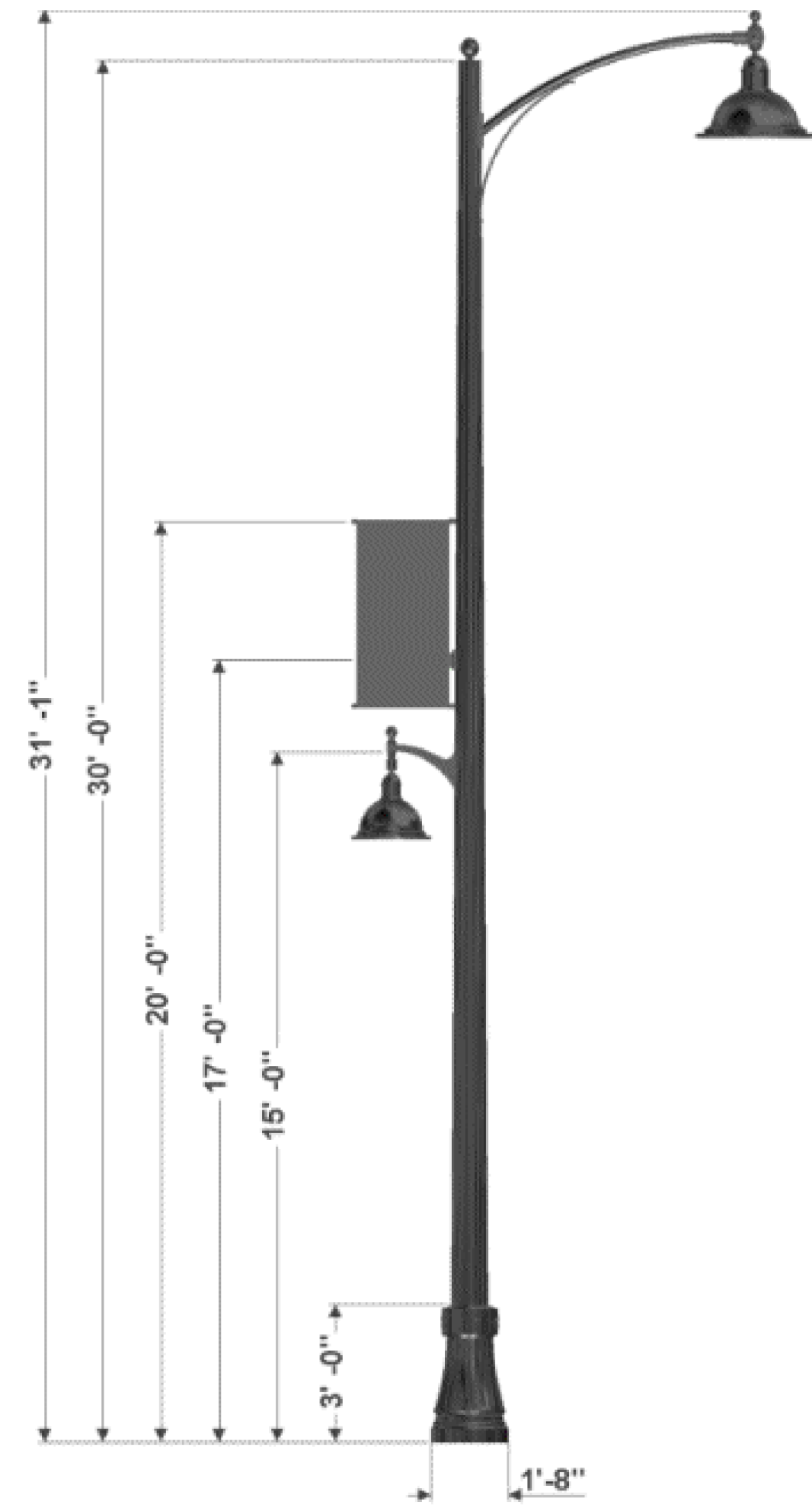


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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JRS	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

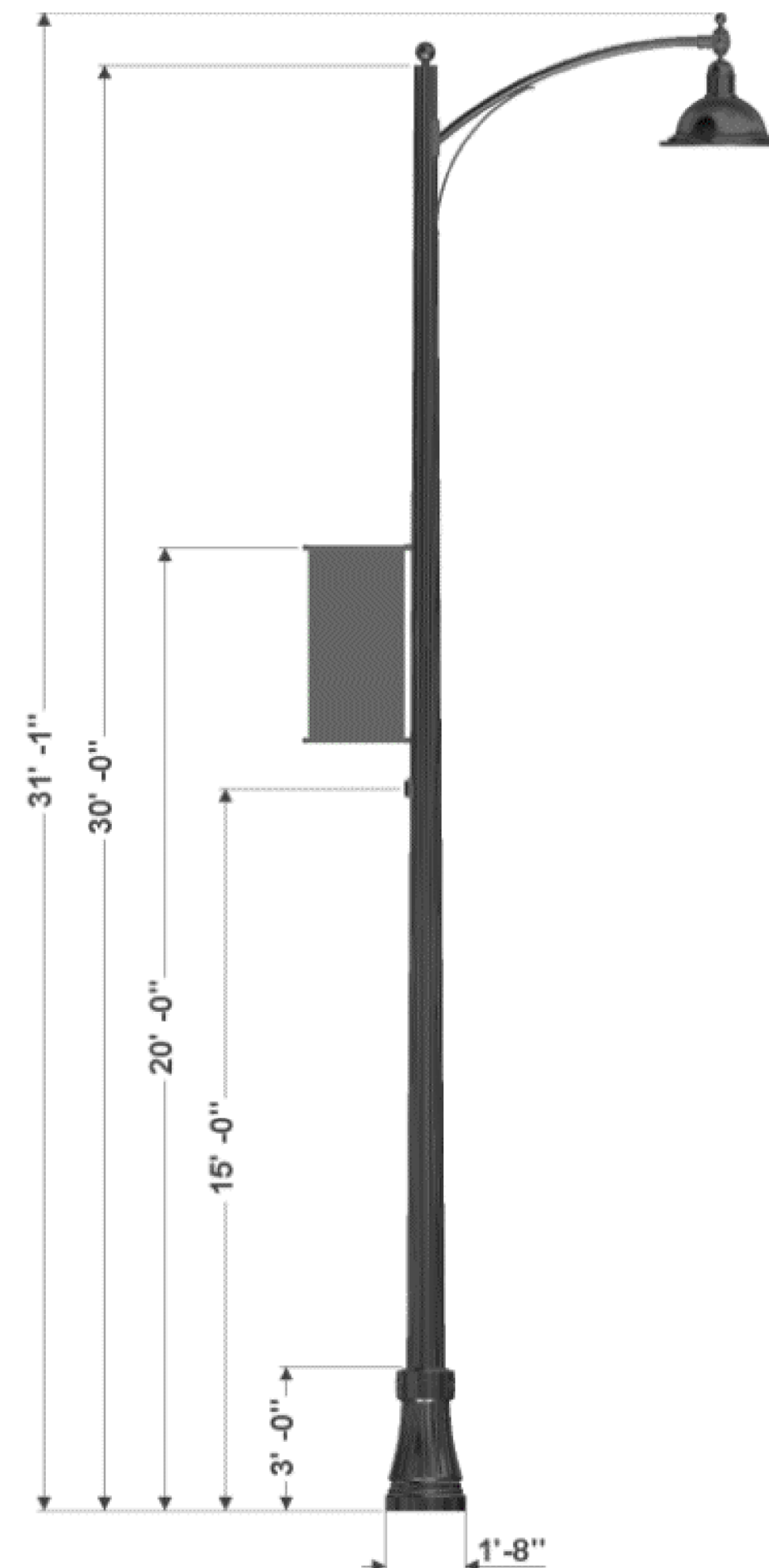
INDIANA DEPARTMENT OF TRANSPORTATION	
LIGHTING PLAN	

SCALE	ROAD FILE
1"=50'	
DESIGNATION	
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SURVEY BOOK	SHEETS
ELECTRONIC	59 of 106
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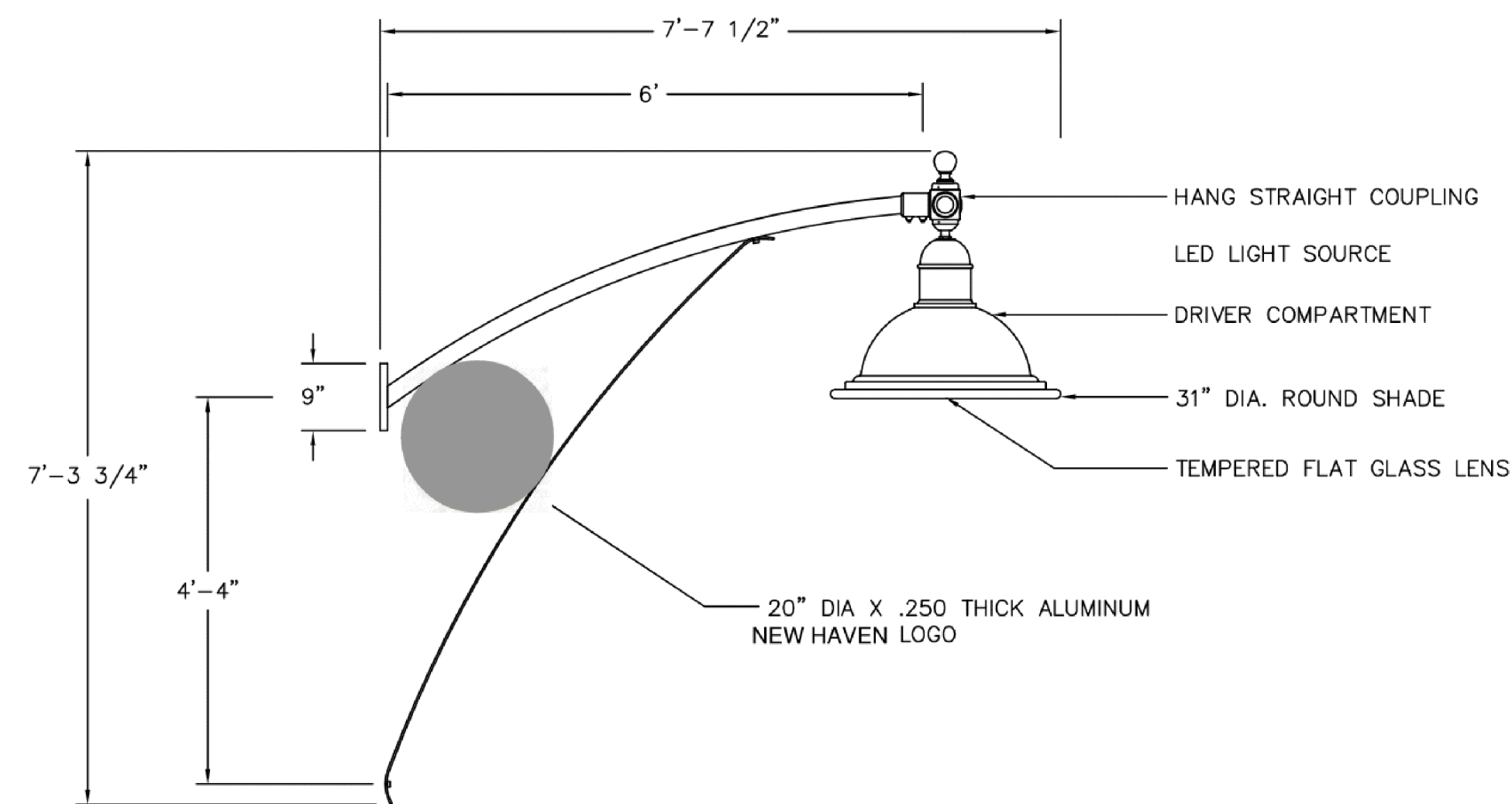
ORNAMENTAL POLE WITH BANNER AND PEDESTRIAN LUMINAIRE (L16, L18, L20)

Scale: NTS



ORNAMENTAL POLE WITH BANNER (L15, L17, L19)

Scale: NTS



ROADWAY LIGHTING WITH ARM, BRACKET, AND LOGO (L15-L20)

Scale: NTS

NUMBER OF ARMS (ROADWAY): 1A-
Number of Arms: One Arm (1A)

ARM ROADWAY FIXTURE: 1531LED
Shade Style & Mounting: Round (R)

LIGHT SOURCE: -32L40T3-MDL014-FG
Array: 32 LEDs, 120W for MD_014, 158W for MD_018 (32L)
Color Temp: 4000K (40)
Distribution: Type 3 (T3)
Driver: Multi-Volt Dimmable Low-Range Driver, 120-277V, 140mA (MDL014)
Lens: Flat Glass (FG)

ROADWAY OPTIONS: -HSHB
Hangstraight: Horizontal HS Ball Finial (HSHB)

ARM: CSA6

NUMBER OF ARMS (PEDESTRIAN): 1AM-
Number of Arms: One Arm (1A)

ARM PEDESTRIAN FIXTURE: 1521LED

PED LIGHT SOURCE: -12L40T3-MDL018-FG
Array: 12 LEDs, 60W for MD_018 (12L)
Color Temp: 4000K (40)
Distribution: Type 3 (T3)
Driver: Multi-Volt Dimmable Low-Range Driver, 120-277V, 180mA (MDL014)
Lens: Flat Glass (FG)

PED OPTIONS: -EZ
Handstraight: EZ Vertical (EZ)
Color Temp: 4000K (40)
Distribution: Type 3 (T3)
Driver: Multi-Volt Dimmable Low-Range Driver, 120-277V, 180mA (MDL014)
Lens: Flat Glass (FG)

ARM: 480HPM

POLE: /6930ARTF/16FF/RSB5/

Model: 6901SS Oxford (/69)
Height: 30 Ft (30)
Shaft Material: Aluminum (A)
Shaft Type: Round Tapered Fluted 16 Flat Flutes (RTF/16FF)
Finial: 5" Ball Finial (RSB5)

ACCESSORY: HDBA
Model: Double Banner Arm, 24" X 48" (HDBA)

ACCESSORY: GFILP-IUC
Model: GFILP-IUC

FINISH: BK
Assembly shall be powder coated to Black Smooth finish.

Note to Reviewer:

Proprietary Materials request pending receipt of information from the City of New Haven for Ornamental Pole cut sheets and costs.

NOTE:

- These drawings are for reference only. Refer to Unique Special Provisions for Manufacturer Catalog Numbers. Contractor shall submit shop drawings for review and approval prior to material orders.

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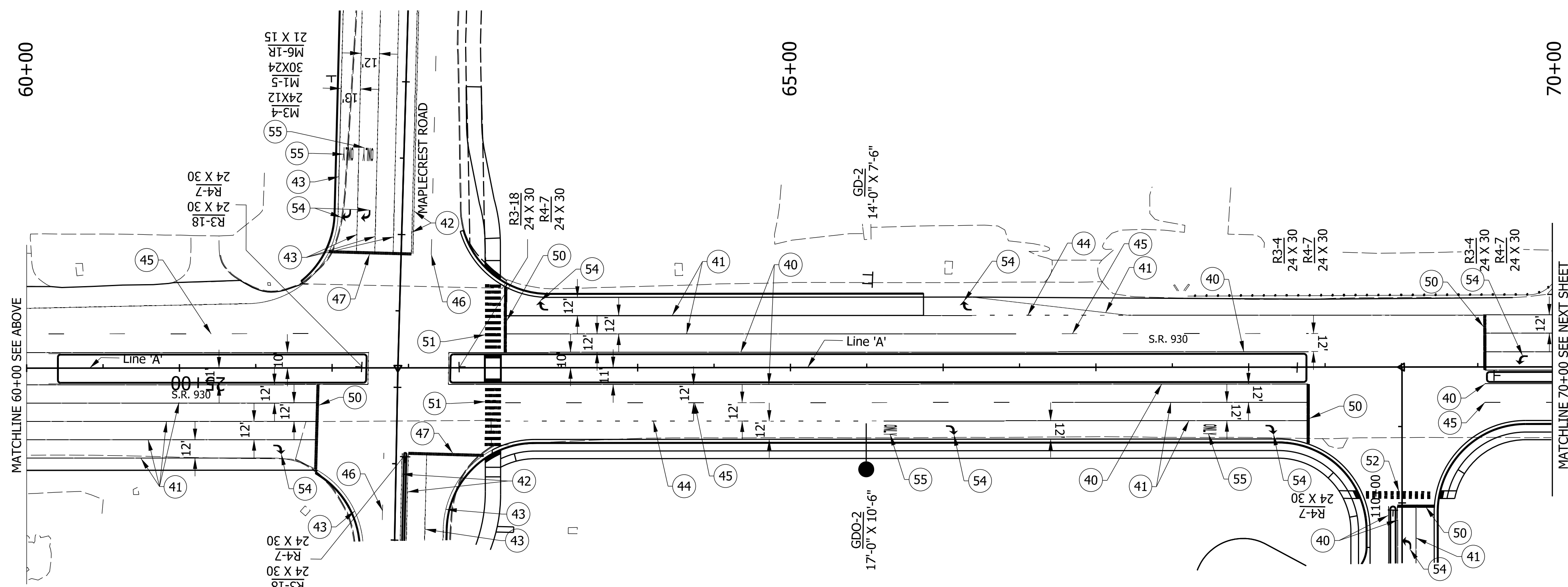
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DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

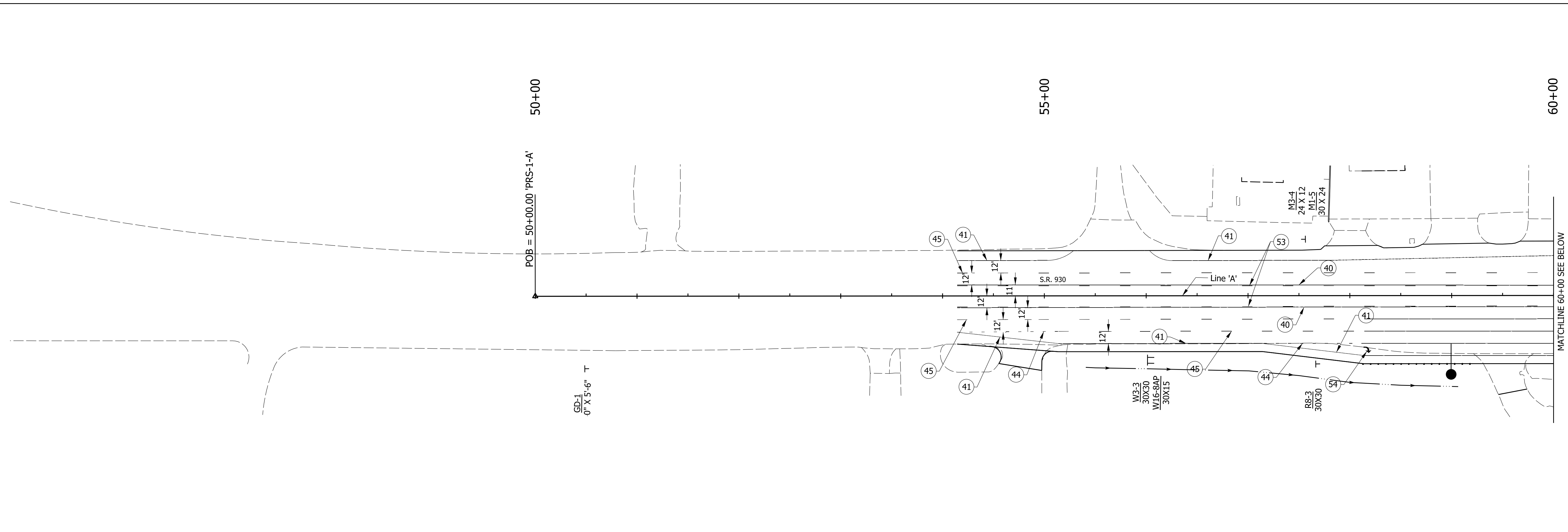
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CONTRACT	PROJECT
R-42358	1900107

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LEGEND:

- 40 Line, Thermoplastic, Solid, Yellow, 6"
- 41 Line, Thermoplastic, Solid, White, 6"
- 42 Line, Multi-Component, Solid, Yellow, 6"
- 43 Line, Multi-Component, Solid, White, 6"
- 44 Line, Thermoplastic, Dotted, White, 6"
- 45 Line, Thermoplastic, Broken, White, 6"
- 46 Line, Multi-Component, Broken, White, 6"
- 47 Transverse Marking, Multi-Component, White, 24" Stop Line
- 50 Transverse Marking, Thermoplastic, White, 24" Stop Line
- 51 Transverse Marking, Thermoplastic, White, Crosswalk Line, 24" x10' (24" Spacing)
- 52 Transverse Marking, Thermoplastic, White, Crosswalk Line, 24" x5' (24" Spacing)
- 53 Line, Thermoplastic, Broken, Yellow, 6"
- 54 Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- 55 Pavement Message Marking, Thermoplastic, Word Only



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DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

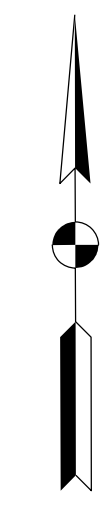
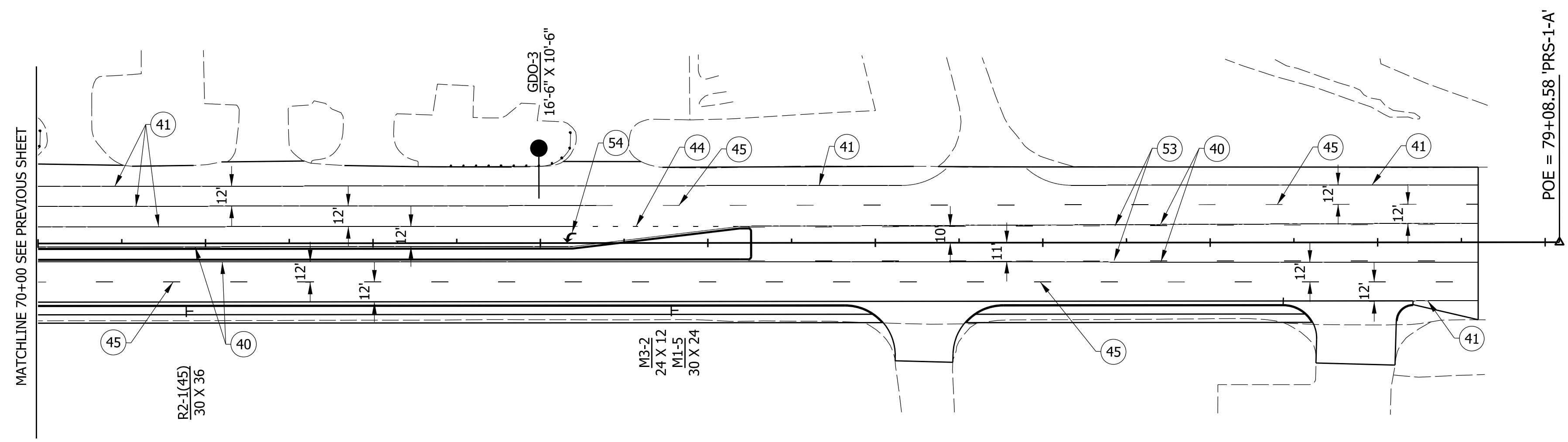
INDIANA DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN LINE 'A'

SCALE 1"=50'	ROAD FILE
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 61 of 106
CONTRACT R-42358	PROJECT 1900107

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70+00

75+00



LEGEND:

- 40 Line, Thermoplastic, Solid, Yellow, 6"
- 41 Line, Thermoplastic, Solid, White, 6"
- 44 Line, Thermoplastic, Dotted, White, 6"
- 45 Line, Thermoplastic, Broken, White, 6"
- 50 Transverse Marking, Thermoplastic, White, 24" Stop Line
- 53 Line, Thermoplastic, Broken, Yellow, 6"
- 54 Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- 55 Pavement Message Marking, Thermoplastic, Word Only



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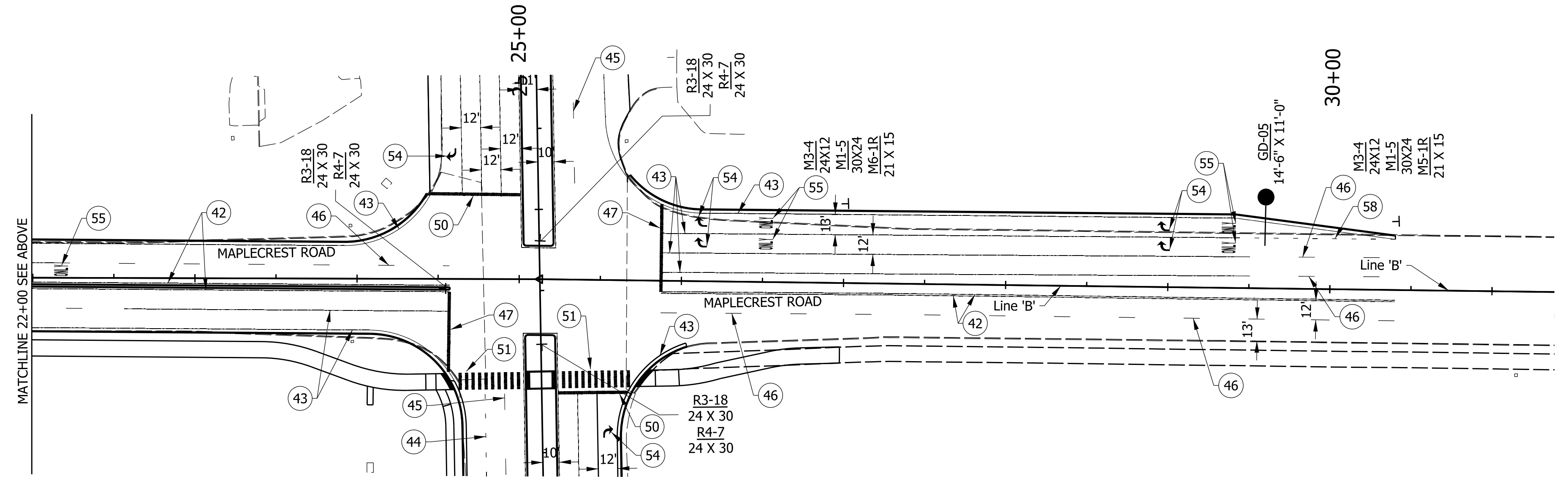
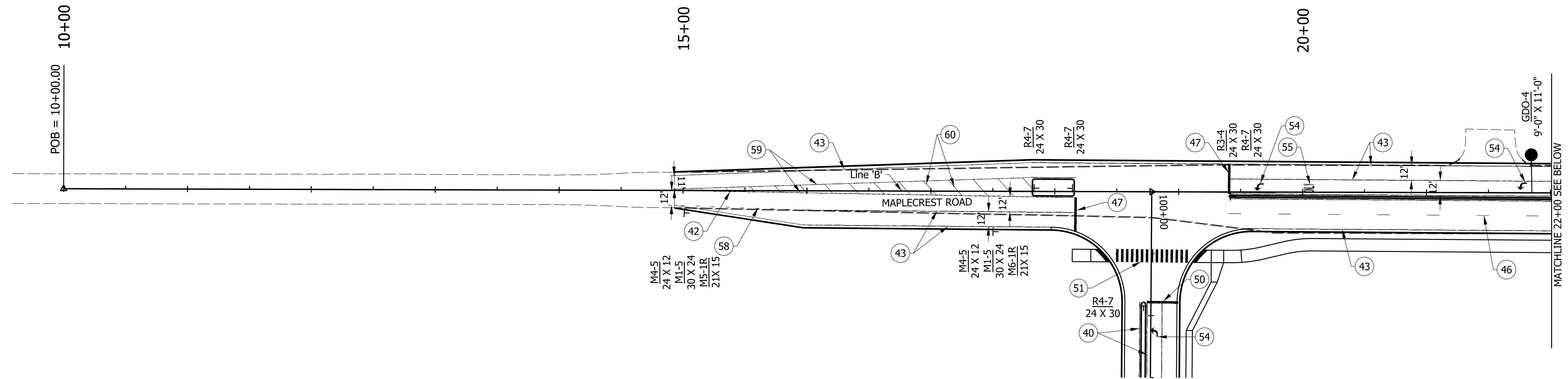
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DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING PLAN
LINE 'A'**

SCALE 1"=50'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 62 of 106
CONTRACT R-42358	PROJECT 1900107

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LEGEND:

- 40 Line, Thermoplastic, Solid, Yellow, 6"
- 41 Line, Thermoplastic, Solid, White, 6"
- 42 Line, Multi-Component, Solid, Yellow, 6"
- 43 Line, Multi-Component, Solid, White, 6"
- 44 Line, Thermoplastic, Dotted, White, 6"
- 45 Line, Thermoplastic, Broken, White, 6"
- 46 Line, Multi-Component, Broken, White, 6"
- 47 Transverse Marking, Multi-Component, White, 24" Stop Line
- 50 Transverse Marking, Thermoplastic, White, 24" Stop Line
- 51 Transverse Marking, Thermoplastic, White, Crosswalk Line, 24" x 10' (24" Spacing)
- 54 Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- 55 Pavement Message Marking, Thermoplastic, Word Only
- 58 Line, Multi-Component, Dotted, White 6"
- 59 Line, Multi-Component, Solid, Yellow, 10"
- 60 Transverse Marking, Multi-Component, Crosshatch Line, Yellow, 12"

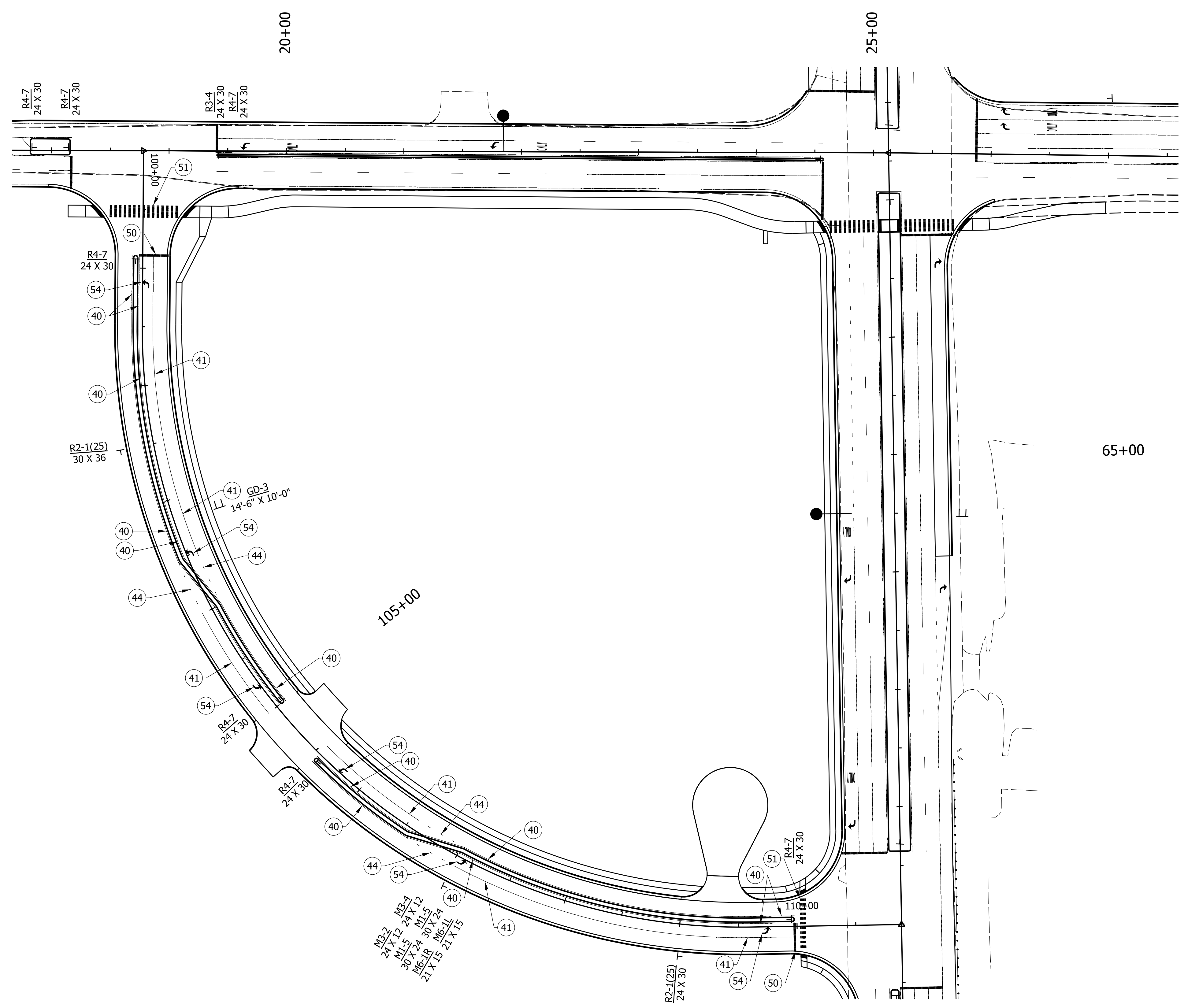
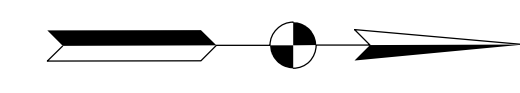


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DLZ INDIANA, LLC

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CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
LINE 'B'

SCALE 1"=50'	ROAD FILE
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 63 of 106
CONTRACT R-42358	PROJECT 1900107



- LEGEND:**
- 40 Line, Thermoplastic, Solid, Yellow, 6"
 - 41 Line, Thermoplastic, Solid, White, 6"
 - 42 Line, Multi-Component, Solid, Yellow, 6"
 - 43 Line, Multi-Component, Solid, White, 6"
 - 44 Line, Thermoplastic, Dotted, White, 6"
 - 45 Line, Thermoplastic, Broken, White, 6"
 - 46 Line, Multi-Component, Broken, White, 6"
 - 47 Transverse Marking, Multi-Component, White, 24" Stop Line
 - 48 Line, Multi-Component, Dotted, White, 6"
 - 49 Snowplowable Raised Pavement Marker
 - 50 Transverse Marking, Thermoplastic, White, 24" Stop Line
 - 51 Transverse Marking, Thermoplastic, White, Crosswalk Line, 24" x10' (24" Spacing)
 - 52 Transverse Marking, Thermoplastic, White, Crosswalk Line, 24" x5' (24" Spacing)
 - 53 Line, Thermoplastic, Broken, Yellow, 6"
 - 54 Pavement Message Marking, Thermoplastic, Lane Indication Arrow
 - 55 Pavement Message Marking, Thermoplastic, Word Only
 - 56 Pavement Message Marking, Multi-Component, Lane Indication Arrow
 - 57 Pavement Message Marking, Multi-Component, Word Only

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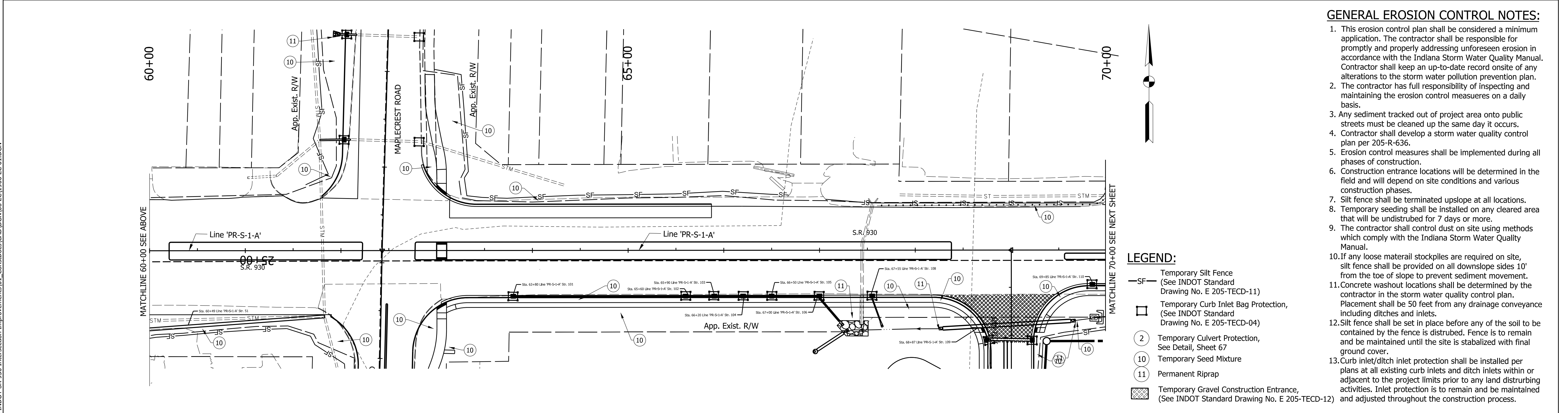
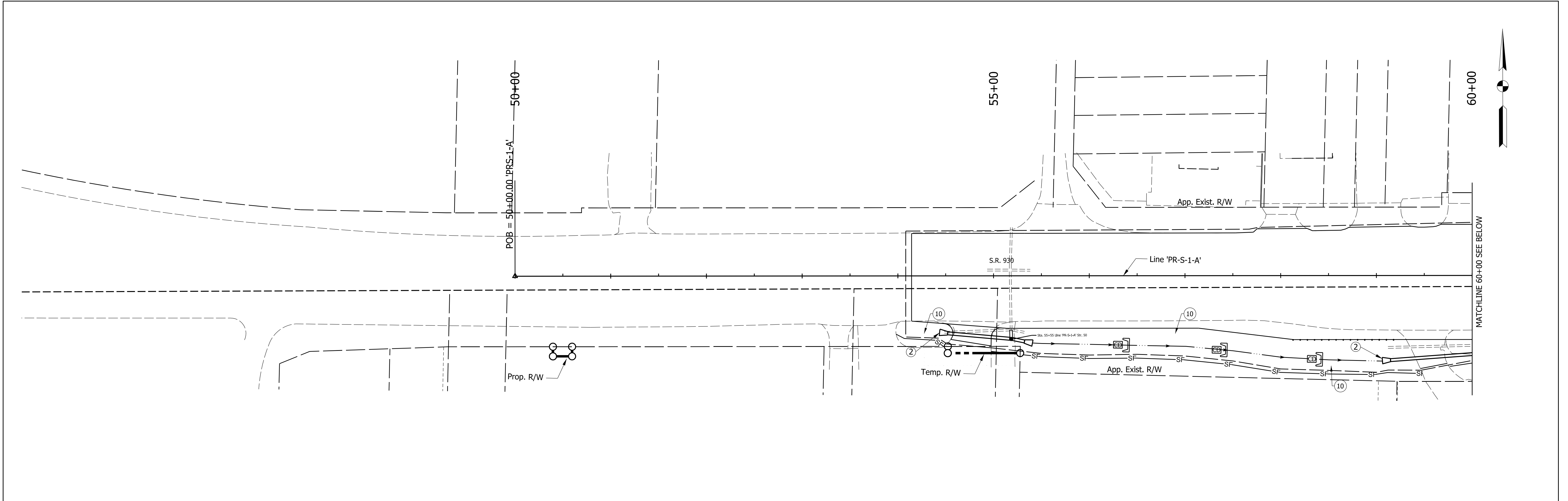
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INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
LINE 'PR-C'

SCALE 1"=50'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 64 of 106
CONTRACT R-42358	PROJECT 1900107

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GENERAL EROSION CONTROL NOTES:

1. This erosion control plan shall be considered a minimum application. The contractor shall be responsible for promptly and properly addressing unforeseen erosion in accordance with the Indiana Storm Water Quality Manual. Contractor shall keep an up-to-date record onsite of any alterations to the storm water pollution prevention plan.
2. The contractor has full responsibility of inspecting and maintaining the erosion control measures on a daily basis.
3. Any sediment tracked out of project area onto public streets must be cleaned up the same day it occurs.
4. Contractor shall develop a storm water quality control plan per 205-R-636.
5. Erosion control measures shall be implemented during all phases of construction.
6. Construction entrance locations will be determined in the field and will depend on site conditions and various construction phases.
7. Silt fence shall be terminated upslope at all locations.
8. Temporary seeding shall be installed on any cleared area that will be undisturbed for 7 days or more.
9. The contractor shall control dust on site using methods which comply with the Indiana Storm Water Quality Manual.
10. If any loose material stockpiles are required on site, silt fence shall be provided on all downslope sides 10' from the toe of slope to prevent sediment movement.
11. Concrete washout locations shall be determined by the contractor in the storm water quality control plan. Placement shall be 50 feet from any drainage conveyance including ditches and inlets.
12. Silt fence shall be set in place before any of the soil to be contained by the fence is disturbed. Fence is to remain and be maintained until the site is stabilized with final ground cover.
13. Curb inlet/ditch inlet protection shall be installed per plans at all existing curb inlets and ditch inlets within or adjacent to the project limits prior to any land disturbing activities. Inlet protection is to remain and be maintained and adjusted throughout the construction process.

LEGEND:

- SF- Temporary Silt Fence (See INDOT Standard Drawing No. E 205-TECD-11)
- Temporary Curb Inlet Bag Protection, (See INDOT Standard Drawing No. E 205-TECD-04)
- ② Temporary Culvert Protection, See Detail, Sheet 67
- ⑩ Temporary Seed Mixture
- ⑪ Permanent Riprap
- ▨ Temporary Gravel Construction Entrance, (See INDOT Standard Drawing No. E 205-TECD-12)

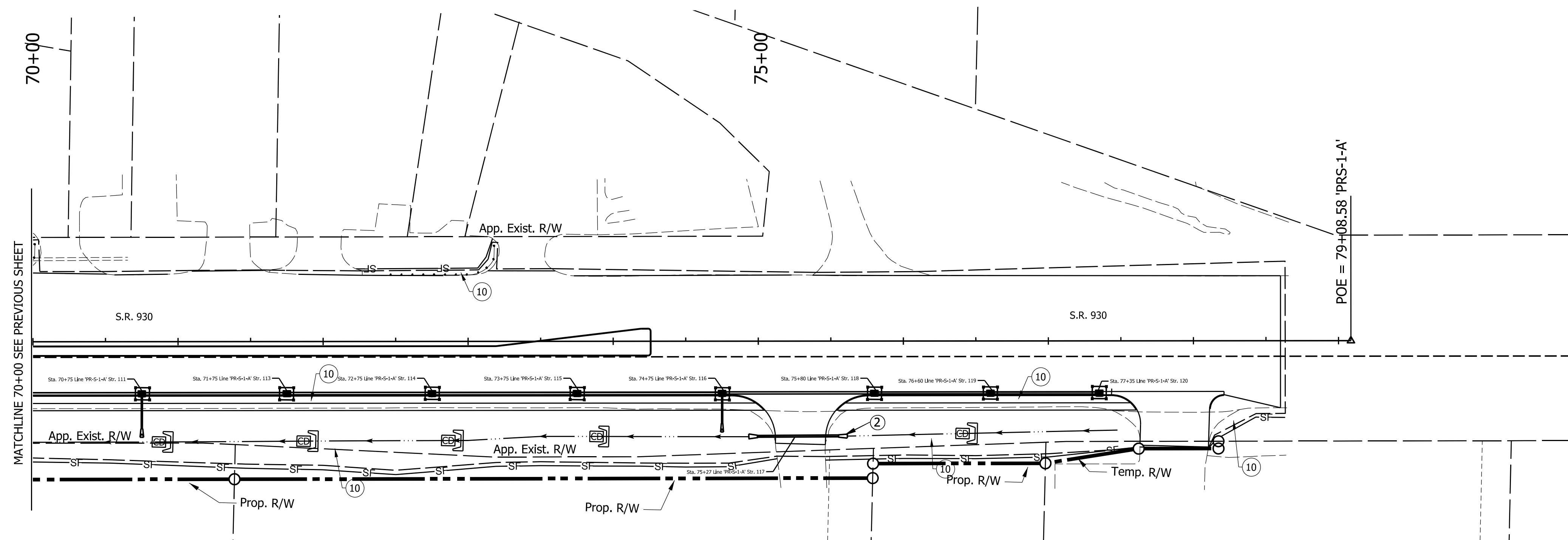
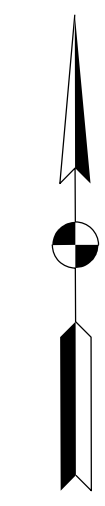


NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
LINE 'PR-S-1-A'

SCALE 1"=50'	ROAD FILE
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 65 of 106
CONTRACT R-42358	PROJECT 1900107



MATCHLINE 70+00 SEE PREVIOUS SHEET

- LEGEND:**
- SF— Temporary Silt Fence
(See INDOT Standard Drawing No. E 205-TECD-11)
 - Temporary Curb Inlet Bag Protection,
(See INDOT Standard Drawing No. E 205-TECD-04)
 - ② Temporary Culvert Protection,
See Detail, Sheet 67
 - ⑩ Temporary Seed Mixture
 - ⑪ Permanent Riprap
 - ▨ Temporary Gravel Construction Entrance,
(See INDOT Standard Drawing No. E 205-TECD-12)

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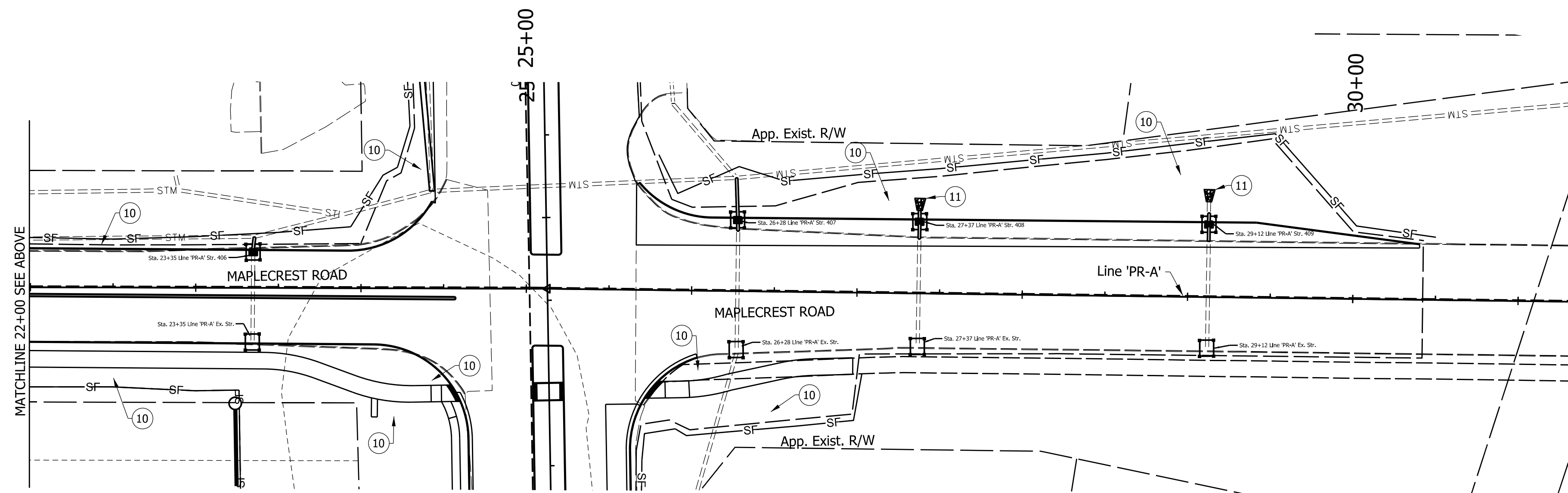
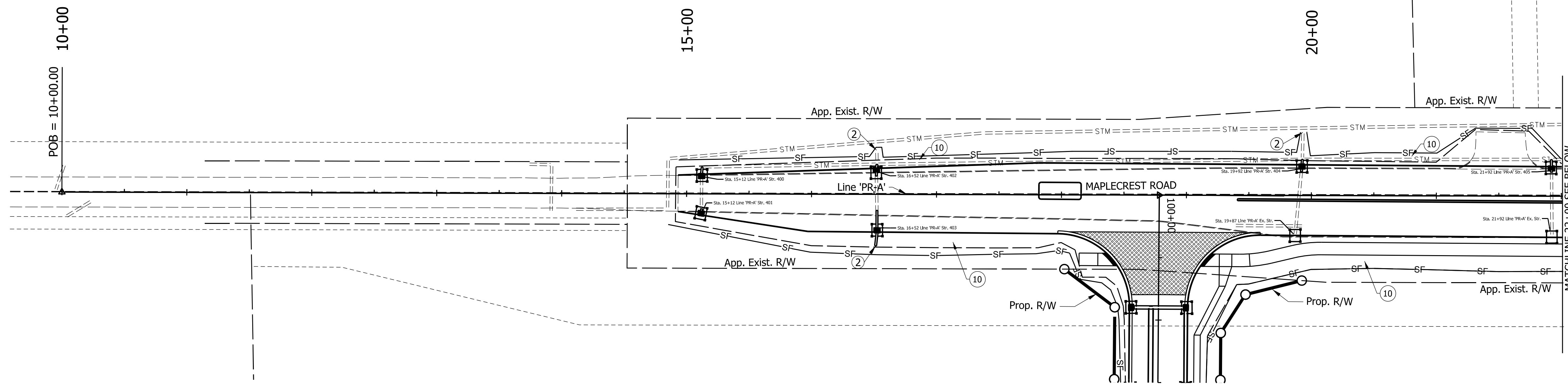
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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLAN
LINE 'PR-S-1-A'**

SCALE 1"=50'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 66 of 106
CONTRACT R-42358	PROJECT 1900107



- LEGEND:**
- SF— Temporary Silt Fence (See INDOT Standard Drawing No. E 205-TECD-11)
 - Temporary Curb Inlet Bag Protection (See INDOT Standard Drawing No. E 205-TECD-04)
 - ② Temporary Culvert Protection, See Detail, Sheet 67
 - ⑩ Temporary Seed Mixture
 - ⑪ Permanent Riprap
 - ▨ Temporary Gravel Construction Entrance, (See INDOT Standard Drawing No. E 205-TECD-12)

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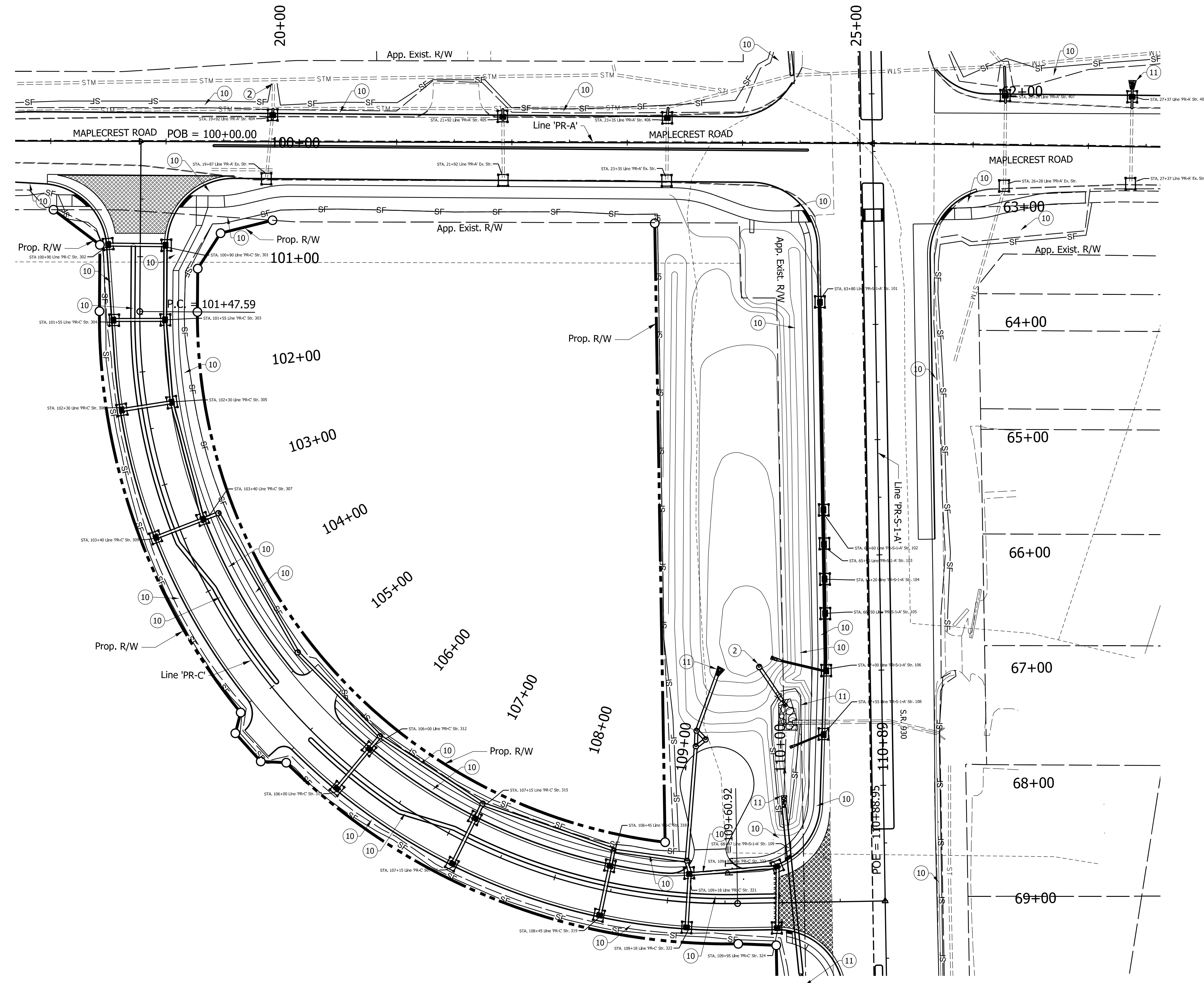
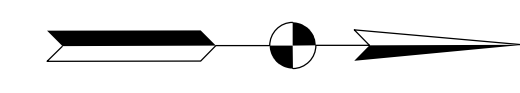
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE 'PR-A'

SCALE 1"=50'	ROAD FILE
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 67 of 106
CONTRACT R-42358	PROJECT 1900107



- LEGEND:**
- SF— Temporary Silt Fence
(See INDOT Standard Drawing No. E 205-TECD-11)
 - Temporary Curb Inlet Bag Protection,
(See INDOT Standard Drawing No. E 205-TECD-04)
 - ② Temporary Culvert Protection,
See Detail, Sheet 67
 - ⑩ Temporary Seed Mixture
 - ⑪ Permanent Riprap
 - ▨ Temporary Gravel Construction Entrance,
(See INDOT Standard Drawing No. E 205-TECD-12)

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE 'PR-C'

SCALE 1"=50'	ROAD FILE
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 68 of 106
CONTRACT R-42358	PROJECT 1900107

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EROSION CONTROL TABLE

STATION	LOCATION			Silt Fence	SEDIMENT REMOVE	TEMPORARY, REVETMENT RIPRAP	TEMPORARY, FILTER STONE	TEMPORARY SEED	TEMPORARY MULCH	NO. 2 STONE	TEMPORARY GEOTEXTILE	CURB INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT										
			LFT	CYS	TON	TON	LBS	TON	TON	SYS	EACH		
Line 'PR-S-1-A'													
54+44		X			11	5				28.00			Temporary Culvert Protection
56+43		X			3								
57+43		X			3								
58+43		X			3								
59+06		X			11	5				28.00			Temporary Culvert Protection
63+80		X			1						1		
65+60		X			1						1		
65+90		X			1						1		
66+20		X			1						1		
66+50		X			1						1		
67+00		X			1						1		
67+55		X			1						1		
69+85		X			1						1		
69+96		X			3								
70+75		X			1						1		
70+96		X			3								
71+75		X			1						1		
71+96		X			3								
72+75		X			1						1		
72+96		X			3								
73+75		X			1						1		
73+96		X			3								
74+75		X			1						1		
75+61		X			11	5				28.00			Temporary Culvert Protection
75+80		X			1						1		
76+50		X			3								
76+60		X			1						1		
77+35		X			1						1		
54+00	54+52	X	55	1									
54+97	59+47	X	448	4									
59+75	61+72	X	199	2									
63+01	68+55	X	556	6									
63+24	66+68	X	346	3									
67+08	69+76	X	288	3									
69+31	75+13	X	584	6									
75+46	77+63	X	217	2									
78+10	78+63	X	63	1									
Line 'PR-A'													
29+12		X		2							2		
27+37		X		2							2		
26+27		X		2							2		
23+35		X		2							2		
21+92		X		2							2		
19+92		X		1							1		
19+87		X		1							1		
16+52		X		2							2		
15+12		X		2							2		
14+91	18+36	X	365	4									
19+40	23+26	X	387	4									
14+91	24+00	X	1009	10									
25+87	27+00	X	135	1									
25+68	30+40	X	518	5									
Line 'PR-C'													
100+90		X		2							2		
101+55		X		2							2		
102+30		X		2							2		
103+40		X		2							2		

EROSION CONTROL TABLE

STATION	LOCATION			Silt Fence	SEDIMENT REMOVE	TEMPORARY, REVETMENT RIPRAP	TEMPORARY, FILTER STONE	TEMPORARY SEED	TEMPORARY MULCH	NO. 2 STONE	TEMPORARY GEOTEXTILE	CURB INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT										
			LFT	CYS	TON	TON	LBS	TON	TON	SYS	EACH		
106+00		X	X		2							2	
107+15		X	X		2							2	
108+45		X	X		2							2	
109+18		X	X		2							2	
109+37		X				11	5			28.00			Temporary Culvert Protection
109+95		X	X		2							2	
100+71	109+13	X		790	8								
100+73	109+98		X	990	10								
Construction Entrance			X					200	235				
TOTAL COLUMN S				6950	119	71	20	828	14.0	200.00	347.00	50	



NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE
DESIGNED: JWH DRAWN: DPH
CHECKED: FS CHECKED: JWH

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL TABLE

SCALE	ROAD FILE
NONE	-
	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	69 of 106
CONTRACT	PROJECT
R-42358	1900107

