PROJECT	DESIGNATION
1401702	1401702
CONTRACT	
R-38240	

INDIANA DEPARTMENT OF TRANSPORTATION

WEST 146TH STREET EXPANSION

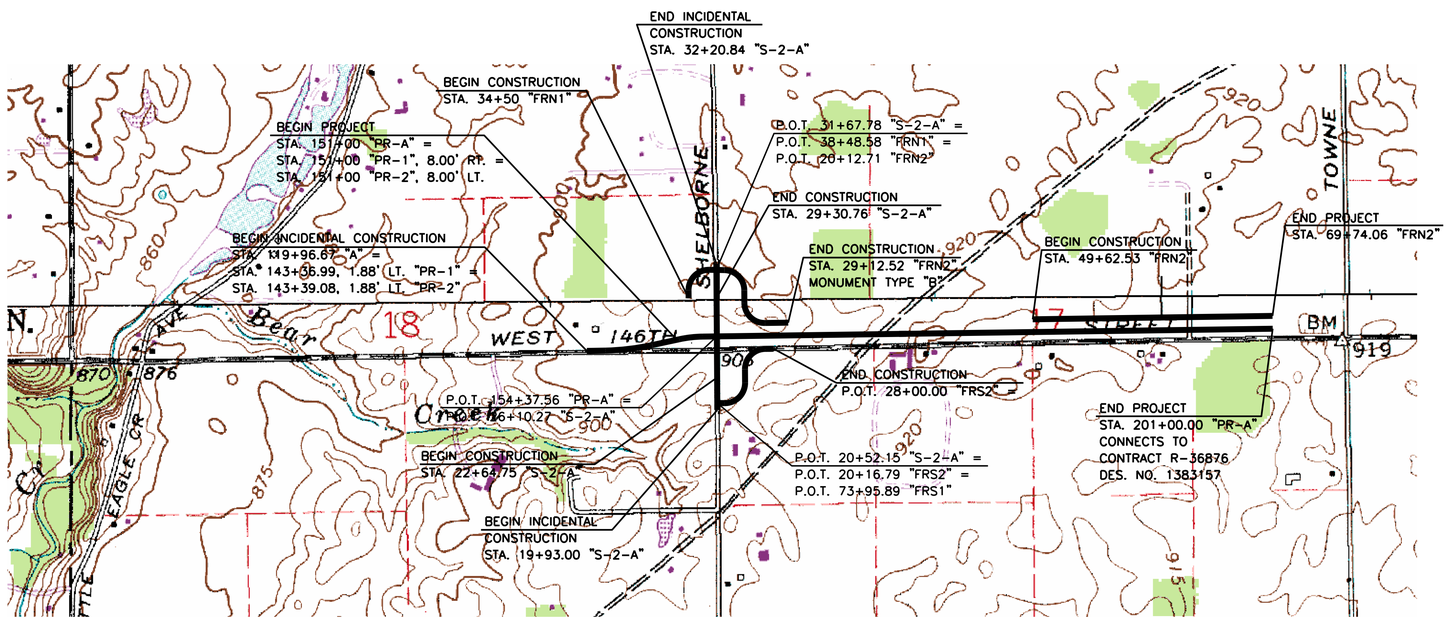
DES. NO. 0810287 P.E.
DES. NO. 0810287 CONST.

REALIGNMENT AND EXPANSION OF W. 146TH STREET BEGINNING AT A POINT ON THE CENTERLINE OF 146TH STREET APPROXIMATELY 0.2 MILES WEST OF SHELBORNE RD AND CONTINUING EAST TO A POINT ON THE CENTERLINE OF 146TH ST. APPROXIMATELY 0.2 MILES WEST OF TOWNE ROAD IN HAMUILTON COUNTY.

SECTIONS 17 &18, T-18-N, R-3-E, IN WASHINGTON TOWNSHIP, HAMILTON COUNTY, INDIANA
SECTIONS 19 & 20, T-18-N, R-3-E, IN CLAY TOWNSHIP, HAMILTON COUNTY, INDIANA

GROSS LENGTH: 0.9469 MILES
NET LENGTH = 0.9469 MILES
MAX GRADE = 1.240%

LATITIUDE: 39°59'56" W
LONGITUDE: 86°13'18" W



LOCATION MAP

HAMILTON COUNTY

TRAFFIC DATA – 146TH ST.	
A.A.D.T. (2008)	8,493 V.P.D.
A.A.D.T. (2032)	14,429 V.P.D.
D.H.V (2032)	1, 803 V.P.D.
DIRECTIONAL DISTRIBUTION	50%
TRUCKS	13%
DESIGN DATA – 146TH ST.	
DESIGN SPEED	45 m/hr
PROJECT DESIGN CRITERIA	4R (NON FREEWAY)
FHWA FUNCTIONAL CLASSIF.	MAJOR (COLLECTOR)
LOCAL FUNCTIONAL CLASSIF.	PRINCIPAL ARTERIAL
RURAL/URBAN	URBAN (SUBURBAN)
TERRAIN	LEVEL
ACCESS CONTROL	LIMITED

TRAFFIC DATA – SHELBORNE RD.	
A.A.D.T. (2008)	2,467 V.P.D.
A.A.D.T. (2032)	4,129 V.P.D.
D.H.V (2032)	480 V.P.D.
DIRECTIONAL DISTRIBUTION	54%
TRUCKS	11%
DESIGN DATA – SHELBORNE RD.	
DESIGN SPEED	45 m/hr
PROJECT DESIGN CRITERIA	4R (NON FREEWAY)
FHWA FUNCTIONAL CLASSIF.	LOCAL ROAD
LOCAL FUNCTIONAL CLASSIF.	SECONDARY ARTERIAL
RURAL/URBAN	URBAN (SUBURBAN)
TERRAIN	LEVEL
ACCESS CONTROL	NONE

TRAFFIC DATA – FRONTAGE ROADS	
A.A.D.T. (2008)	N/A
A.A.D.T. (2032)	<200 V.P.D.
D.H.V (2032)	N/A
DIRECTIONAL DISTRIBUTION	50%
TRUCKS	N/A
DESIGN DATA – FRONTAGE ROADS	
DESIGN SPEED	25 m/hr
PROJECT DESIGN CRITERIA	4R (NON FREEWAY)
FHWA FUNCTIONAL CLASSIF.	N/A
LOCAL FUNCTIONAL CLASSIF.	LOCAL ROAD
RURAL/URBAN	URBAN (SUBURBAN)
TERRAIN	LEVEL
ACCESS CONTROL	NONE

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2018
TO BE USED WITH THESE PLANS

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HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - NEW ALBANY - MUNCIE
www.hwcengineering.com

PLANS PREPARED BY: HWC ENGINEERING 812-752-0914 PHONE NUMBER
CERTIFIED BY: DATE
APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE		
DESIGNATION 1401702		
SHEETS		
1	of	148
CONTRACT	PROJECT	
R-38240	1401702	

UTILITIES

ELECTRIC
DUKE ENERGY
100 S. MILL CREEK RD.
NOBLESVILLE, IN 46062
ATTN: CINDY ROWLAND
317-776-5341
CINDY.ROWLAND@DUKE-ENERGY.COM

TELECOMMUNICATIONS
AT&T
240 N. MERIDIAN ST.
INDIANAPOLIS, IN 46204
ATTN: JACOB GREENWALD
317-265-2896
JG0936@ATT.COM

FOR UNDERGROUND UTILITIES, CALL: WITHIN INDIANA 1-800-382-5544 (TOLLFREE)
FROM OUTSIDE INDIANA 1-800-428-5200 (TOLLFREE)

R/W INDEX

SHEET NO.	DESIGNATION

REVISIONS

SHEET NO.	DATE	REVISED

GENERAL NOTES

X	ALL EARTH SHOULDERS, MEDIAN AREAS, AND CUT AND FILL SLOPES SHALL BE MULCHED SEEDING, TYPE R EXCEPT WHERE SODDED IS SPECIFIED.
	THE FINAL CROSS SECTIONS OF THE GRADING CONTRACT WILL BE THE ORIGINAL CROSS SECTIONS OF THE PAVING CONTRACT. HOWEVER, PARTIAL OR COMPLETE CROSS SECTIONS SHALL BE TAKEN IF NECESSARY TO DETERMINE THE ACTUAL EXCAVATION QUANTITIES.
	THE PAPER RELOCATION WILL BE CROSS SECTIONED BY THE ENGINEER BEFORE CONSTRUCTION.
	EXISTING ASPHALT PAVEMENT LOCATED OUTSIDE OF THE CONSTRUCTION LIMITS, BETWEEN STA ____ AND STA _____, SHALL BE REMOVED AS DIRECTED.
	THE QUANTITY OF PEAT EXCAVATION SHOWN ON THE PLANS HAS BEEN ESTIMATED ON THE BASIS OF THEORETICAL CROSS SECTIONS BY USING TREATMENT OF EXITING FILLS, TREATMENT BY REMOVAL, OR TREATMENT BY DISPLACEMENT, WHERE EACH TREATMENT APPLIES.
X	REPRESENTS GENERAL NOT REQUIRED

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX & GENERAL NOTES
3-6	TYPICAL SECTIONS
7-9	PLAT NO. 1
10-25	MAINTENANCE OF TRAFFIC SHEETS
26-34	PLAN & PROFILE SHEETS
35-43	CONSTRUCTION DETAIL SHEETS
44-45	ISLAND CONSTRUCTION DETAIL SHEETS
46-49	SIDEWALK CONSTRUCTION DETAIL SHEETS
50-53	CURB RAMP DETAIL SHEETS
54	INTERSECTION DETAIL SHEETS
55-56	GEOMETRIC DETAIL SHEETS
57-58	SUPERELEVATION DETAIL SHEETS
59-60	DRAINAGE DETAIL SHEETS
61-65	EROSION CONTROL SHEETS
66	EROSION CONTROL DETAILS
67-74	PAVEMENT MARKING & SIGN SHEETS
75	LIGHTING PLAN LAYOUT
76	SIGN TABLE
77-78	PAVEMENT MARKING TABLES
79	PAVEMENT QUANTITIES AND APPROACH TABLE
80	PAVED SIDE DITCH, R/W MARKER, MONUMENT TABLE, & MAILBOX TABLE
81-84	UNDERDRAIN TABLE
85	EROSION CONTROL TABLE
86-87	STRUCTURE DATA TABLE
88	PIPE MATERIAL SHEET
89-93	CROSS SECTIONS - "PR-1" & "PR-2"
94-119	CROSS SECTIONS - "PR-A"
120-123	CROSS SECTIONS - "S-2-A"
124-125	CROSS SECTIONS - "FRN1"
126-140	CROSS SECTIONS - "FRN2"
141-145	CROSS SECTIONS - "FRS2"
146-148	CROSS SECTIONS - DRIVES

LEGEND

(D2) DRIVEWAY, CLASS II
HMA FOR APPROACHS, TYPE B:
165 #/SYD HMA SURFACE, TYPE B ON
385 #/SYD HMA INTERMEDIATE, TYPE B ON
SUBGRADE TREATMENT TYPE II

(F) MULTI-USE PATH
HMA FOR SIDEWALK TYPE B:
140 #/SYD HMA SURFACE, TYPE B ON
220 #/SYD HMA INTERMEDIATE TYPE B ON
6" COMPACTED AGGREGRATE, NO. 53 BASE ON
SUBGRADE TREATMENT TYPE III

(K) FULL DEPTH PAVEMENT
165 #/SYD QC/QA HMA, 3, 76, SURFACE 9.5 MM ON
275 #/SYD QC/QA HMA, 3, 76, INTERMEDIATE, 19.0 MM, ON
330 #/SYD QC/QA HMA, 3, 64, BASE, 19.0 MM, ON
250 #/SYD QC/QA HMA, 4, 76, INTERMEDIATE OG,, 19.0 MM, ON
330 #/SYD QC/QA HMA, 3, 64, BASE, 19.0 MM ON
SUBGRADE TREATMENT TYPE IB

(K1) TRANSITION ROAD PAVEMENT
165 #/SYD QC/QA HMA, 3, 70, SURFACE, 9.5 MM ON
275 #/SYD QC/QA HMA, 3, 70, INTERMEDIATE, 19.0 MM ON
330 #/SYD QC/QA HMA, 3, 64, BASE, 19.0 MM ON
8" COMPACTED AGGREGATE, NO. 53 BASE ON
SUBGRADE TREATMENT TYPE IB

(L) FRONTAGE ROAD PAVEMENT
220 #/SYD QC/QA HMA, 2, 64, SURFACE, 12.5 MM ON
440 #/SYD QC/QA HMA, 2, 64, INTERMEDIATE, 25.0 MM ON
4" COMPACTED AGGREGATE, NO. 53 BASE ON
SUBGRADE TREATMENT TYPE IB W/O UNDERDRAINS

(R) RESURFACE (EXISTING SHELBORNE RD)
MILLING ASPHALT, 1 1/2" THEN
165 #/SYD QC/QA HMA, 3, 70, SURFACE, 9.5 MM ON
EXISTING HMA PAVEMENT (APPROX. 9.5" AFTER MILLING)

(R1) RESURFACE (EXISTING 146TH ST.)
MILLING ASPHALT, 1 1/2" THEN
165 #/SYD QC/QA HMA, 2, 64, SURFACE, 9.5 MM ON
EXISTING HMA PAVEMENT (APPROX. 9.5" AFTER MILLING)

(S1) HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)
165 #/SYD QC/QA HMA, 2, 64, SURFACE, 9.5MM (PLACED WITH MAINLINE) ON
HMA FOR STRUCUTRE INSTALLATION TYPE B CONSISTING OF:
275 #/SYD HMA INTERMEDIATE, TYPE B ON
660 #/SYD HMA BASE, TYPE B (2 LIFTS)

(S2) HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)
165 #/SYD QC/QA HMA, 3, 70, SURFACE, 9.5MM (PLACED WITH MAINLINE) ON
HMA FOR STRUCUTRE INSTALLATION TYPE C CONSISTING OF:
275 #/SYD HMA INTERMEDIATE, TYPE C ON
385 #/SYD HMA BASE, TYPE C ON
250 #/SYD QC/QA HMA, 4, 76, INTERMEDIATE OG, 19.0MM ON
330 #/SYD HMA BASE, TYPE C

(TA) TRUCK APRON
7 IN. PCCP (15" MAXIMUM JOINT SPACING, 1" DIA. DOWELS)
9.5" COMPACTED AGGREGATE, NO. 53 BASE
SUBGRADE TREATMENT TYPE IB WITH UNDERDRAINS

(O) COMPACTED AGGREGATE BASE, NO. 53

(U) UNDERDRAIN, 6 IN.

(13) INTEGRAL CURB, CONCRETE

(14) COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED

(15) COMBINED CURB AND GUTTER, CONCRETE, MODIFIED

(16) CURB, CONCRETE

(22) CENTER CURB, C

(26) SODDING, NURSERY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX & GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	2 of 148
CONTRACT	PROJECT
R-38240	1401702

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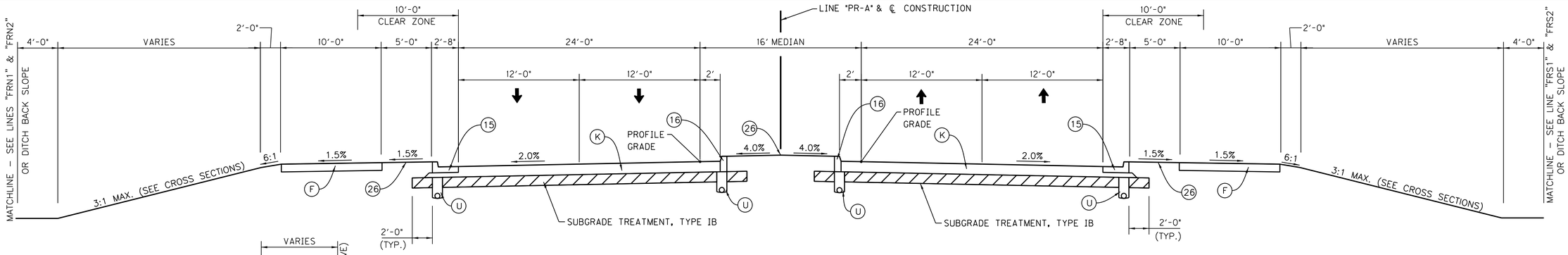
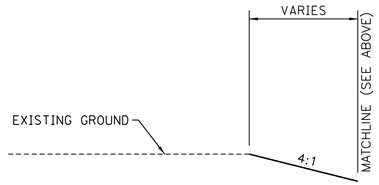


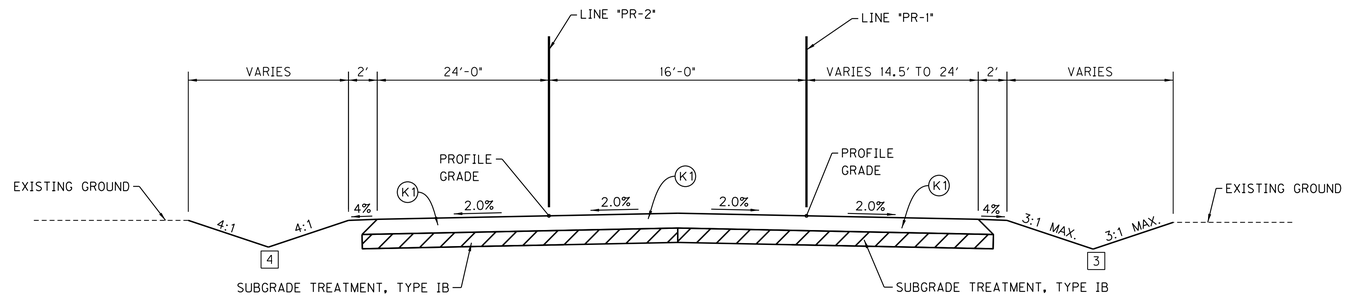
TYPICAL SECTION - 146th STREET
STA. 151+00.00 TO STA. 151.21.82 "PR-A"
STA. 157+00.00 TO STA. 201+00.00 "PR-A"

STA. 151+21.82 TO STA. 157+00.00
SEE SPLITTER ISLAND DETAILS
FOR LANE WIDTHS AND DIMENSIONS

NOTE: GEOTEXTILE TYPES TO BE DETERMINED UPON COMPLETION OF GEOTECH REPORT



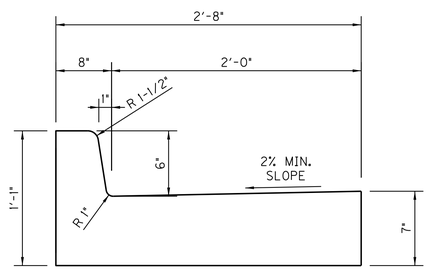
MATCHLINE DETAIL - DITCH BACKSLOPE
(LEFT SIDE SHOWN, REVERSE FOR RIGHT)
STA. 156+50 TO STA. 201+00.00 LINE "PR-A" RT.
STA. 159+32.00 TO STA. 180+90.00 "PR-A" LT.



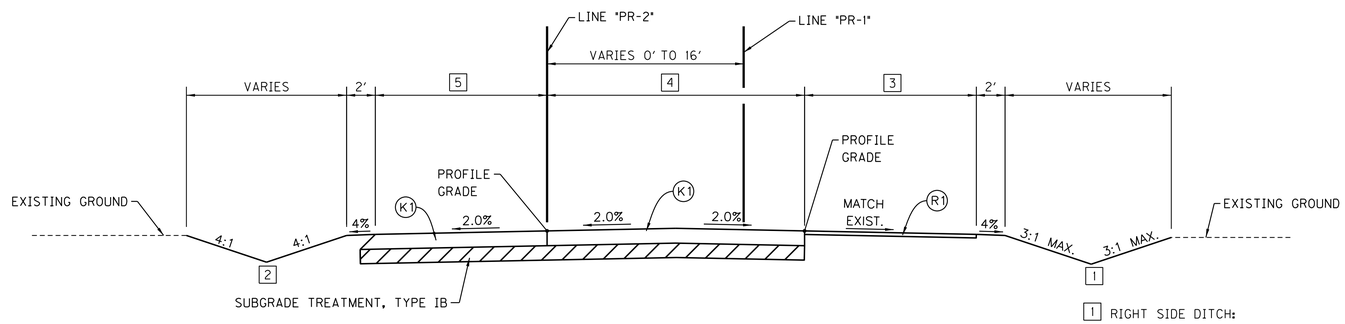
TYPICAL SECTION - TRANSITION ROAD INCIDENTAL CONSTRUCTION
STA. 148+90.00 TO STA. 151+00.00 LINE "PR-1"
STA. 148+90.00 TO STA. 151+00.00 LINE "PR-2"

3 RIGHT SIDE DITCH:
STA. 149+00 TO STA. 151+00

4 LEFT SIDE DITCH:
STA. 143+50 TO STA. 151+00



COMBINED CONCRETE CURB AND GUTTER, MODIFIED
NOT TO SCALE



5 STA. 143+36.99 TO STA. 146+20
VARIES FROM 0' TO 12'
STA. 146+20 TO STA. 148+90 = 12'

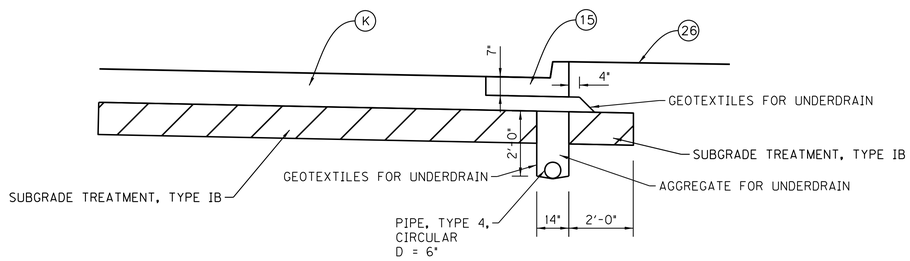
TYPICAL SECTION - TRANSITION ROAD INCIDENTAL CONSTRUCTION
STA. 143+36.99 TO STA. 148+90.00 LINE "PR-1"
STA. 143+39.08 TO STA. 148+90.00 LINE "PR-2"

1 RIGHT SIDE DITCH:
STA. 141+15 TO STA. 143+50

2 LEFT SIDE DITCH:
STA. 143+50 TO STA. 149+00

3 STA. 143+36.99 TO STA. 148+20
VARIES 24' TO 0'
148+20 TO STA. 148+90.00 = 0'

4 STA. 146+20 TO STA. 148+20
VARIES FROM 0' TO 28'
STA. 148+20 TO STA. 148+90 = 28'



UNDERDRAIN DETAIL
NOT TO SCALE

D2 DRIVEWAY, CLASS II	R RESURFACE (SHELBORNE RD)	R1 RESURFACE (146TH ST.)	13 INTEGRAL CURB, CONCRETE
F MULTI-USE PATH	S1 HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)	TA TRUCK APRON	14 COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
K FULL DEPTH PAVEMENT	S2 HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)	U UNDERDRAIN, 6 IN.	15 COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
K1 TRANSITION ROAD PAVEMENT		O COMP. AGG. BASE, NO. 53	16 CURB, CONCRETE
L FRONTAGE ROAD PAVEMENT		26 SODDING, NURSERY	22 CENTER CURB, C

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	3 of 148
CONTRACT	PROJECT
R-38240	1401702

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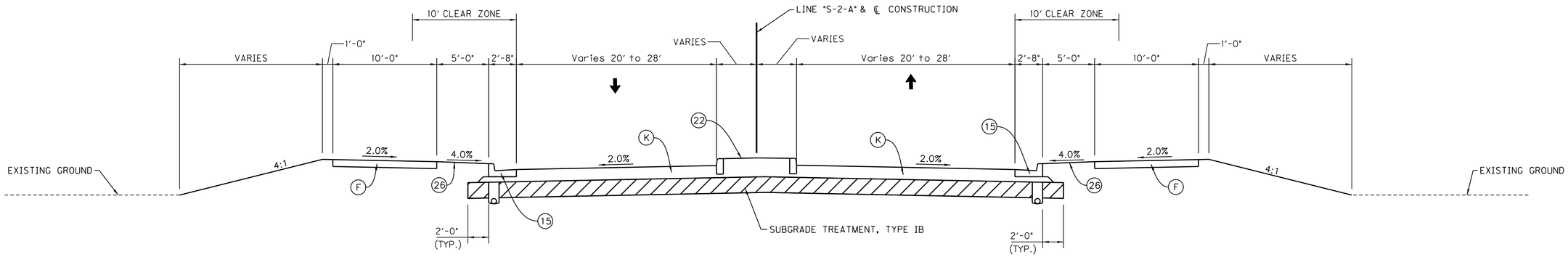
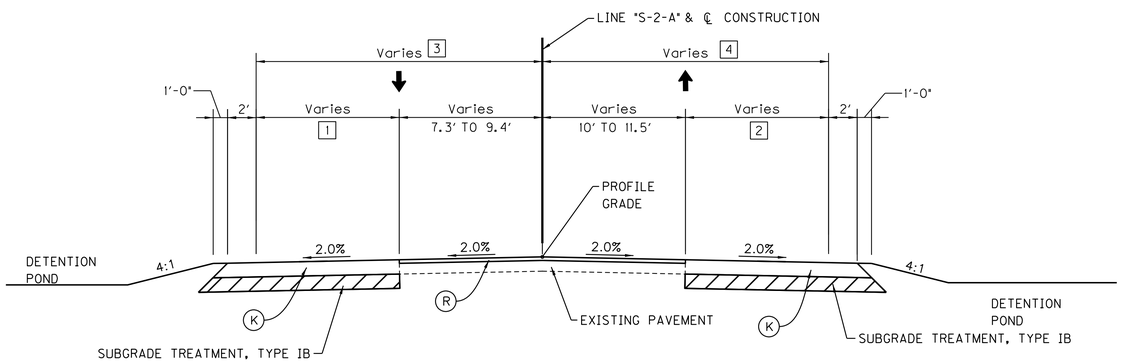
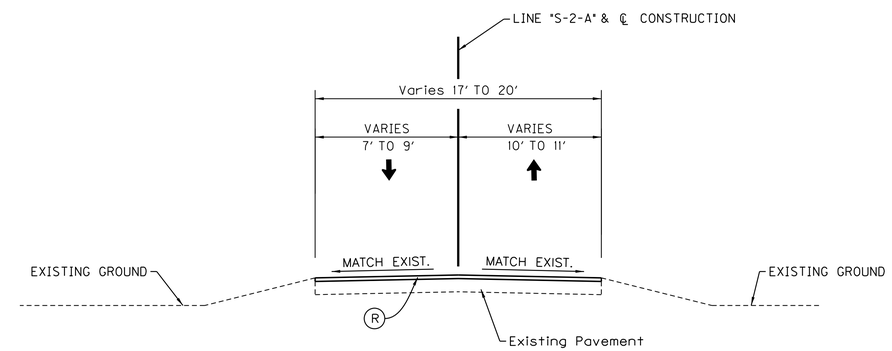


TYPICAL SECTION - SHELBORNE ROAD
STA. 24+14.78 TO STA. 25+25.77 LINE "S-2-A"
STA. 26+92.77 TO STA. 27+80.74 LINE "S-2-A"



TYPICAL SECTION - SHELBORNE RD. RESURFACE & WIDENING
STA. 22+64.75 TO STA. 24+14.78 LINE "S-2-A"
STA. 27+80.74 TO STA. 29+30.76 LINE "S-2-A"



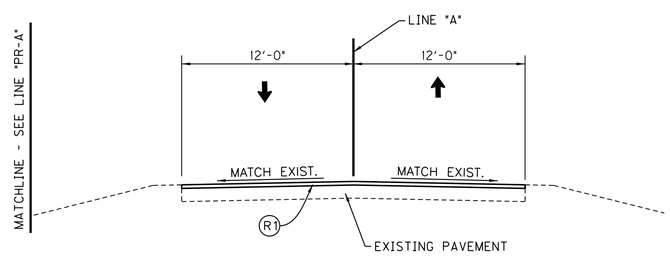
TYPICAL SECTION - INCIDENTAL CONSTRUCTION - SHELBORNE ROAD
Sta. 19+93.00 to 22+64.75 Line "S-2-A"
Sta. 29+30.76 to 32+20.84 Line "S-2-A"

1 VARIES FROM 0' @ STA. 22+64.75 TO 15' @ STA. 24+14.78
VARIES FROM 14.3' @ STA. 27+80.74 TO 0' @ STA. 29+30.76

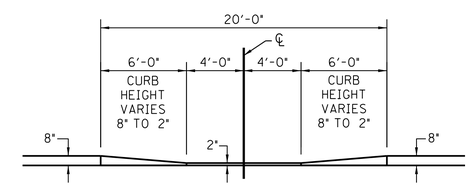
2 0' FROM STA. 22+64.75 TO STA. 23+50
VARIES FROM 0' @ STA. 23+50 TO 4.8' @ STA. 24+14.78
VARIES FROM 9.8' @ STA. 27+80.74 TO 0' @ STA. 29+30.76

3 VARIES FROM 8.4' @ STA. 22+64.75 TO 24.4' @ STA. 24+14.78
VARIES FROM 22.1' @ STA. 27+80.74 TO 7.3' @ STA. 29+30.76

4 VARIES FROM 11.3' @ STA. 22+64.75 TO 15.6' @ STA. 24+14.78
VARIES FROM 20' @ STA. 27+80.74 TO 10' @ STA. 29+30.76



TYPICAL SECTION - 146TH ST. RESURFACE
STA. 135+62.69 TO STA. 177+50.13 LINE "A"



MOWER ACCESS DETAIL
STA. 149+70 "PR-A" LT. & RT. MEDIAN
STA. 149+70 "PR-A" LT. & RT. SHOULDER
STA. 158+70 "PR-A" LT. & RT. MEDIAN
STA. 158+70 "PR-A" LT. & RT. SHOULDER

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D2 DRIVEWAY, CLASS II	R RESURFACE (SHELBORNE RD)	R1 RESURFACE (146TH ST.)	13 INTEGRAL CURB, CONCRETE
F MULTI-USE PATH	S1 HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)	TA TRUCK APRON	14 COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
K FULL DEPTH PAVEMENT	S2 HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)	U UNDERDRAIN, 6 IN.	15 COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
K1 TRANSITION ROAD PAVEMENT		O COMP. AGG. BASE, NO. 53	16 CURB, CONCRETE
L FRONTAGE ROAD PAVEMENT		26 SODDING, NURSERY	22 CENTER CURB, C

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SHELBORNE ROAD & EXIST. 146TH ST.

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
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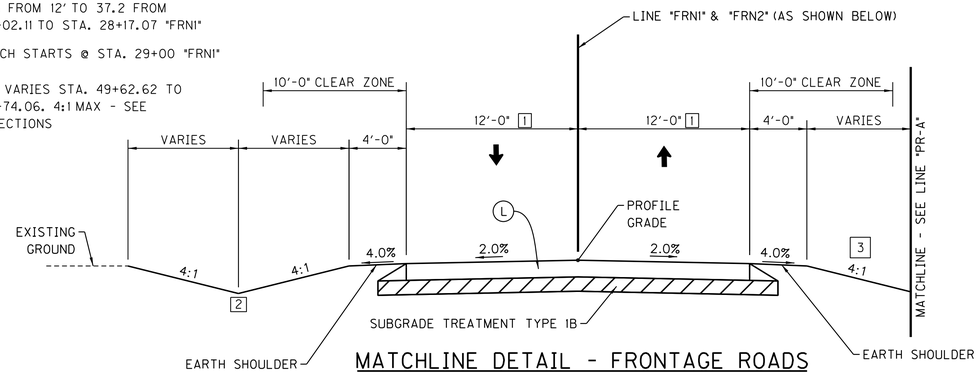
1 VARIES FROM 12' TO 37.2 FROM STA. 27+02.11 TO STA. 28+17.07 "FRN1"

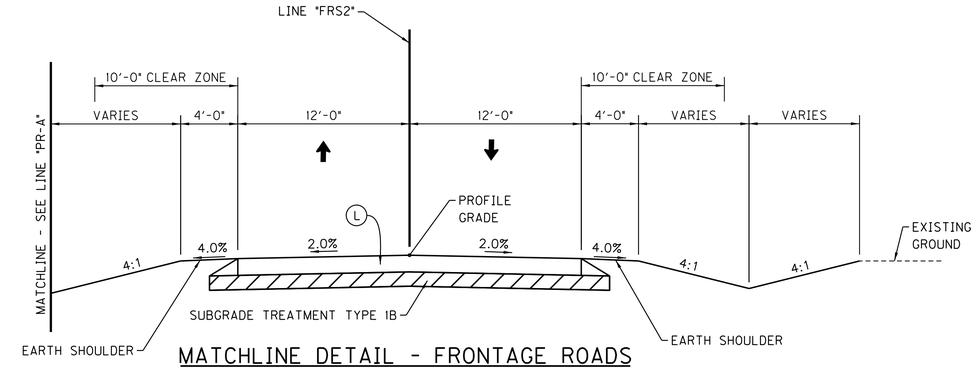
2 "V" DITCH STARTS @ STA. 29+00 "FRN1"

3 SLOPE VARIES STA. 49+62.62 TO STA. 69+74.06. 4:1 MAX - SEE CROSS SECTIONS



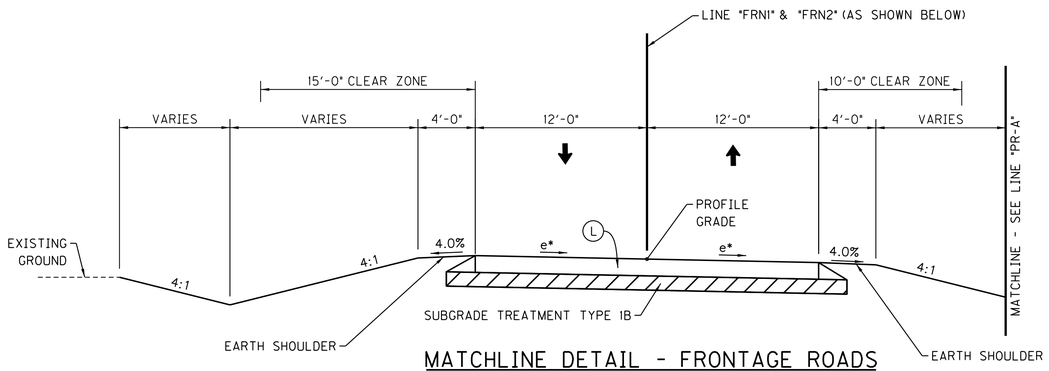
MATCHLINE DETAIL - FRONTAGE ROADS

STA. 34+50.00 TO STA. 34+57.50 LINE "FRN1"
STA. 27+76.95 TO STA. 29+12.52 LINE "FRN2"
STA. 49+62.53 TO STA. 69+74.06 LINE "FRN2"



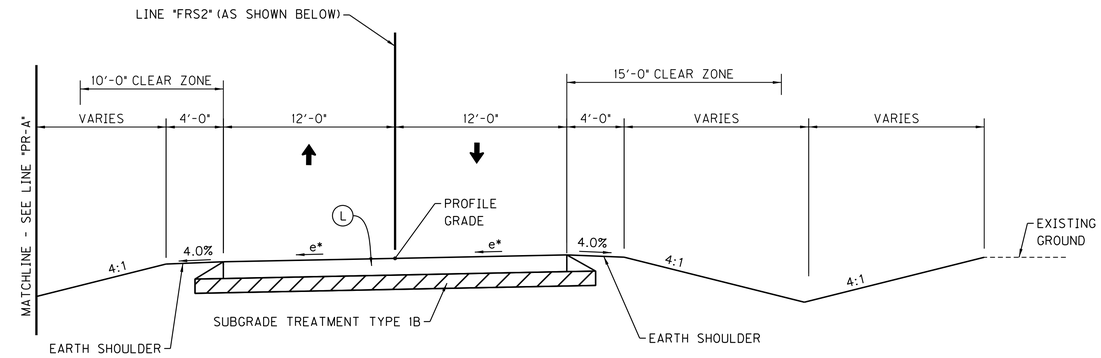
MATCHLINE DETAIL - FRONTAGE ROADS

STA. 27+88.14 TO STA. 28+00.00 LINE "FRS2"



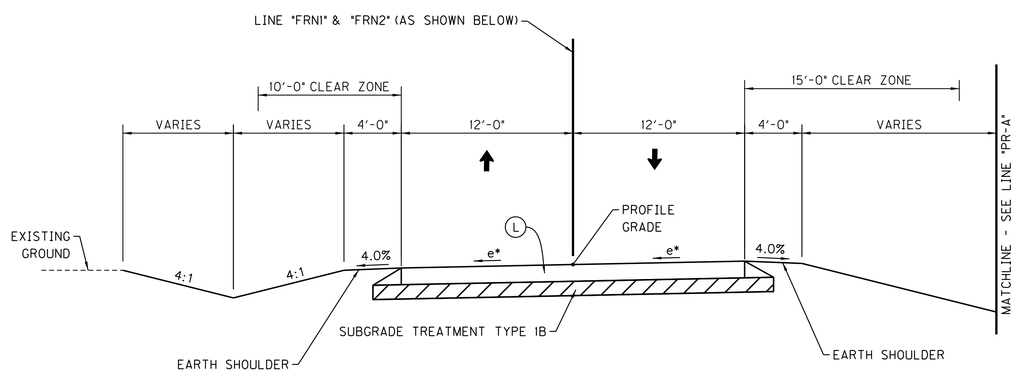
MATCHLINE DETAIL - FRONTAGE ROADS

STA. 34+57.50 TO STA. 38+41.39 LINE "FRN1"
STA. 20+23.30 TO STA. 23+95.00 LINE "FRN2"



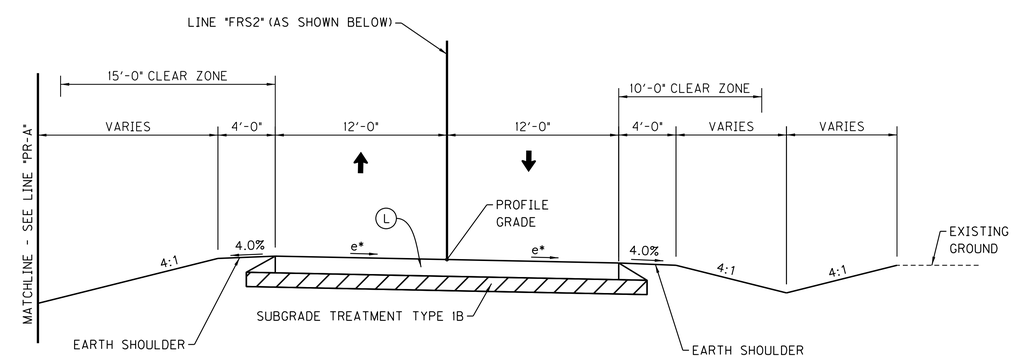
MATCHLINE DETAIL - FRONTAGE ROADS

STA. 20+27.73 TO STA. 24+05.00 LINE "FRS2"



MATCHLINE DETAIL - FRONTAGE ROADS

STA. 23+95.00 TO STA. 27+76.95 LINE "FRN2"



MATCHLINE DETAIL - FRONTAGE ROADS

STA. 24+05.00 TO STA. 27+88.14 LINE "FRS2"

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INDOT.tbl
1:5

D2 DRIVEWAY, CLASS II	R RESURFACE (SHELBORNE RD)	R1 RESURFACE (146TH ST.)	13 INTEGRAL CURB, CONCRETE
F MULTI-USE PATH	S1 HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)	TA TRUCK APRON	14 COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
K FULL DEPTH PAVEMENT	S2 HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)	U UNDERDRAIN, 6 IN.	15 COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
K1 TRANSITION ROAD PAVEMENT		O COMP. AGG. BASE, NO. 53	16 CURB, CONCRETE
L FRONTAGE ROAD PAVEMENT		26 SODDING, NURSERY	22 CENTER CURB, C

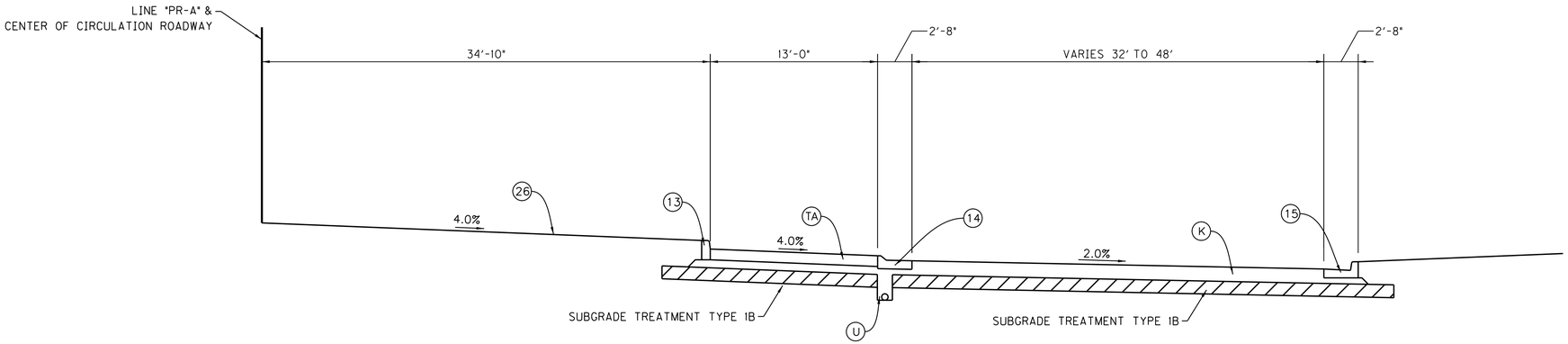
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

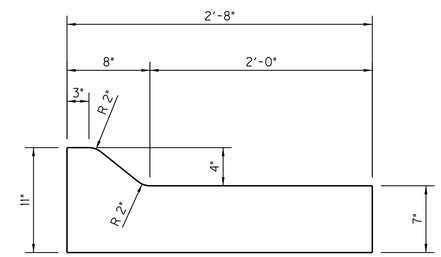
INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
FRONTAGE ROADS

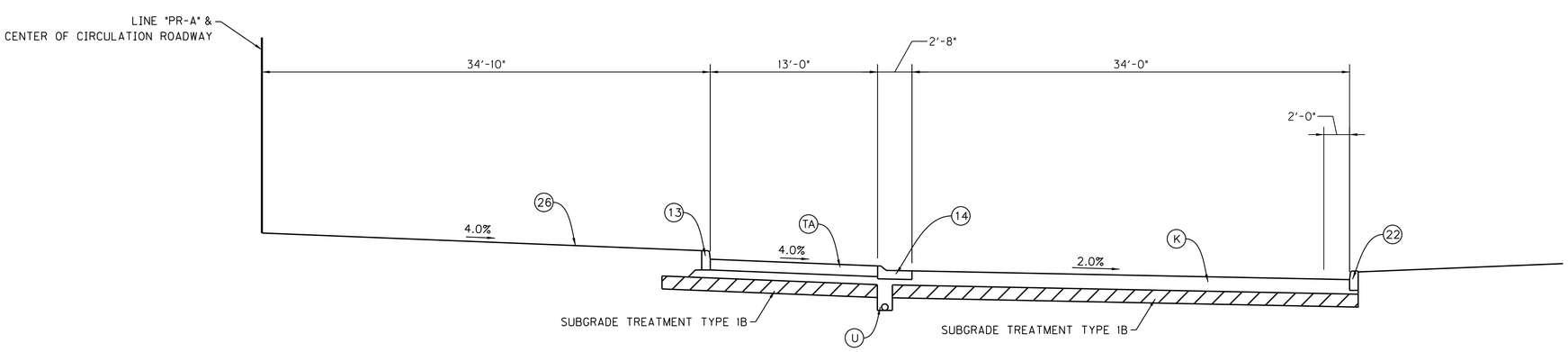
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	5 of 148
CONTRACT	PROJECT
R-38240	1401702



ROUNDABOUT TYPICAL SECTION
AT QUADRANTS



COMBINED CONCRETE CURB AND GUTTER,
TYPE B MODIFIED
NOT TO SCALE



ROUNDABOUT TYPICAL SECTION
AT SPLITTER ISLANDS

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(D2) DRIVEWAY, CLASS II	(R) RESURFACE (SHELBORNE RD)	(R1) RESURFACE (146TH ST.)	(13) INTEGRAL CURB, CONCRETE
(F) MULTI-USE PATH	(S1) HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)	(TA) TRUCK APRON	(14) COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
(K) FULL DEPTH PAVEMENT		(U) UNDERDRAIN, 6 IN.	(15) COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
(K1) TRANSITION ROAD PAVEMENT	(S2) HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)	(O) COMP. AGG. BASE, NO. 53	(16) CURB, CONCRETE
(L) FRONTAGE ROAD PAVEMENT		(26) SODDING, NURSERY	(22) CENTER CURB, C

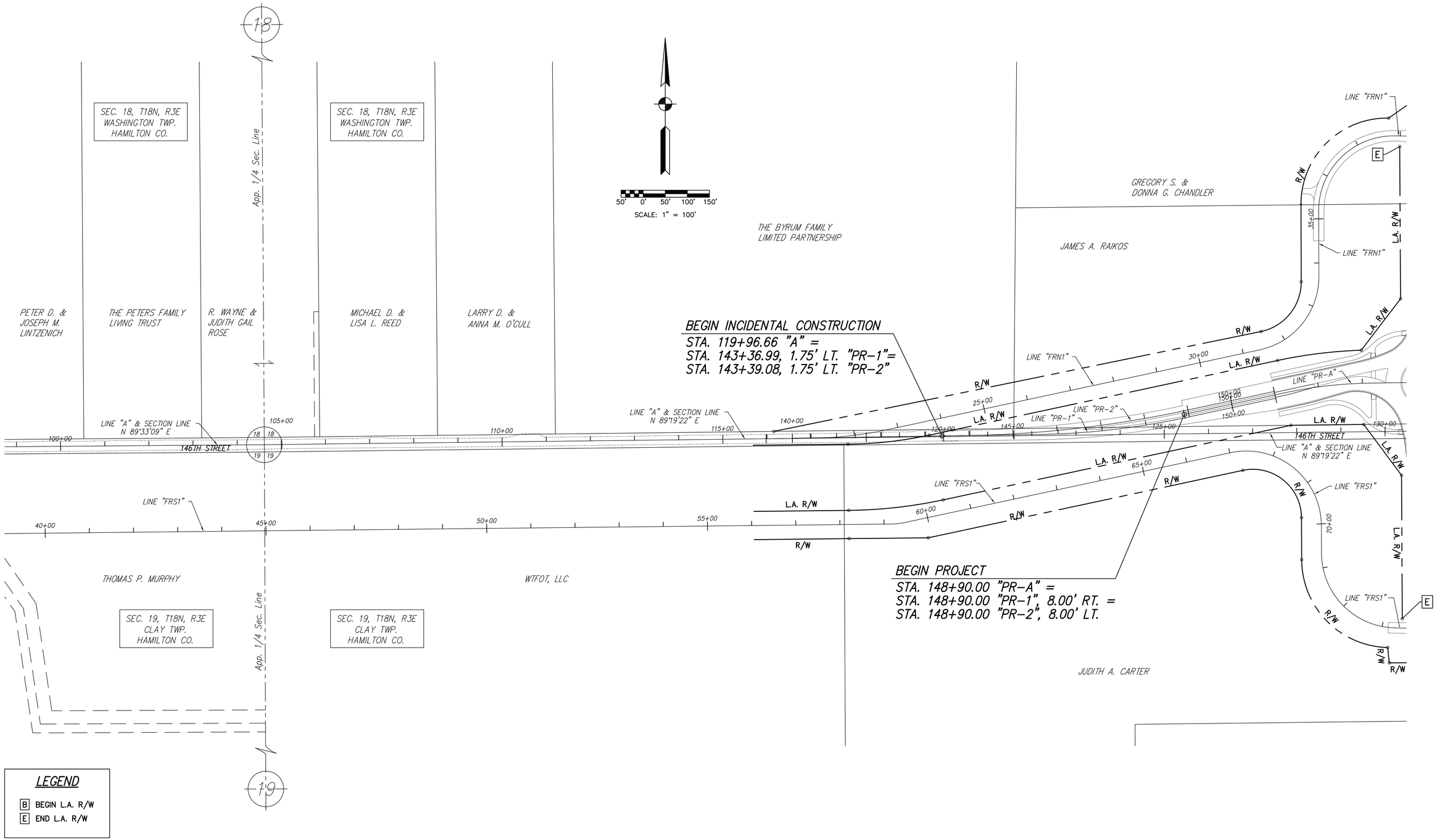
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
ROUNDABOUTS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	6 of 148
CONTRACT	PROJECT
R-38240	1401702



Stage 3 Plans

DESIGNED: J.L.B.	DRAWN: G.S.H.
CHECKED: D.W.C.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1
146th STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	7 of 148
CONTRACT	PROJECT
R-38240	1401702

END INCIDENTAL CONSTRUCTION
STA. 32+20.84 LINE "S-2-A"

P.O.T. 31+67.78 "S-2-A"=
P.O.T. 38+48.58 "FRN1"=
P.O.T. 20+12.71 "FRN2"=

END CONSTRUCTION
STA. 29+30.76 "S-2-A"

SCALE: 1" = 100'

MARCELLO & DINA GRAFFITTI

ELIDE BERNARDON, NANCY LYNN JOHNSON & EDWARD BERNARDON

MARY I. SCHREIBER

SEC. 17, T18N, R3E WASHINGTON TWP. HAMILTON CO.

SHELBORNE ROAD

LINE "S-2-A" & SECTION LINE N 01°18'57" W

P.O.T. 154+37.56 "PR-A"=
P.O.T. 26+10.27 "S-2-A"

146TH STREET

LINE "A" & SECTION LINE N 89°19'22" E

LINE "A" & SECTION LINE N 89°07'09" E

P.I. 130+86.77 "A" =
P.I. 25+00.00 "S-2-A"

WILLIAM R. LAMB & HENRIETTA L. LAMB REVOCABLE LIVING TRUST

ALFRED JACOB KAUFMAN

ROBERT E. LOEFGREN

STEVE S. CHANG & HAK SUNG CHANG

PPV, LLC

MATTHEW E. HUBBARD

SEC. 20, T18N, R3E CLAY TWP. HAMILTON CO.

LINE "S-2-A" & SECTION LINE N 01°19'23" W

BEGIN CONSTRUCTION
STA. 22+64.75 "S-2-A"

P.O.T. 20+52.14 "S-2-A"=
P.O.T. 73+95.89 "FRS1"=
P.O.T. 20+16.79 "FRS2"=

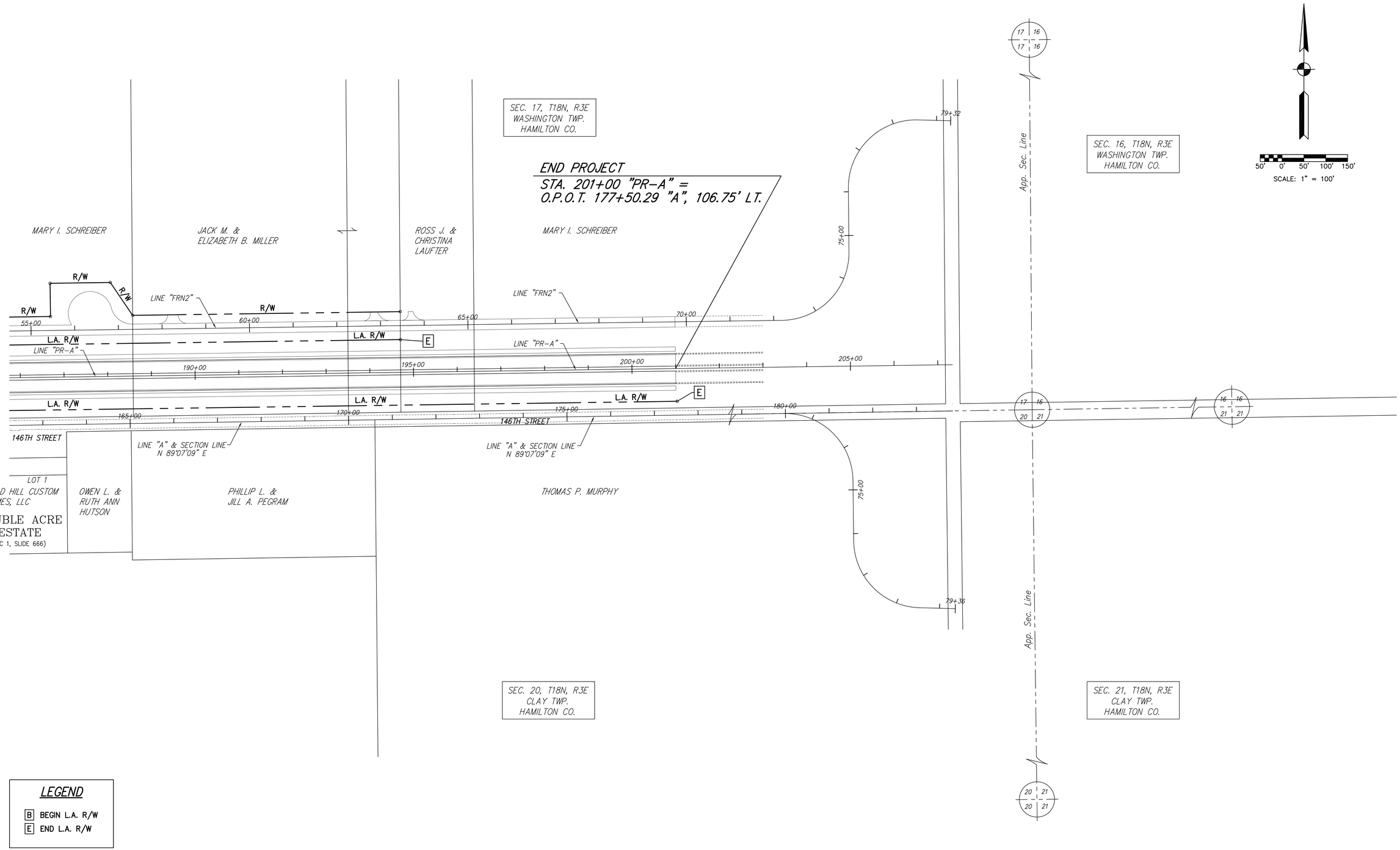
BEGIN INCIDENTAL CONSTRUCTION
STA. 19+93.00 LINE "S-2-A"

App. 1/4 Sec. Line

LEGEND

B BEGIN L.A. R/W
E END L.A. R/W

Stage 3 Plans		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 100' / BRIDGE FILE
	DESIGNED: J.L.B. / DRAWN: G.S.H.		VERTICAL SCALE N/A / DESIGNATION 1401702
	CHECKED: D.W.C. / CHECKED: J.L.B.	PLAT NO. 1 146th STREET	SURVEY BOOK / SHEETS 8 of 148
			CONTRACT R-38240 / PROJECT 1401702



Stage 3 Plans

DESIGNED: J.L.B.	DRAWN: G.S.H.
CHECKED: D.W.C.	CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1
146th STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	9 of 148
CONTRACT	PROJECT
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DETOUR ROUTE MARKER ASSEMBLIES

A
- DETOUR — XM4-8
- SHELBORNE ROAD
- M5-1S (L OR R)

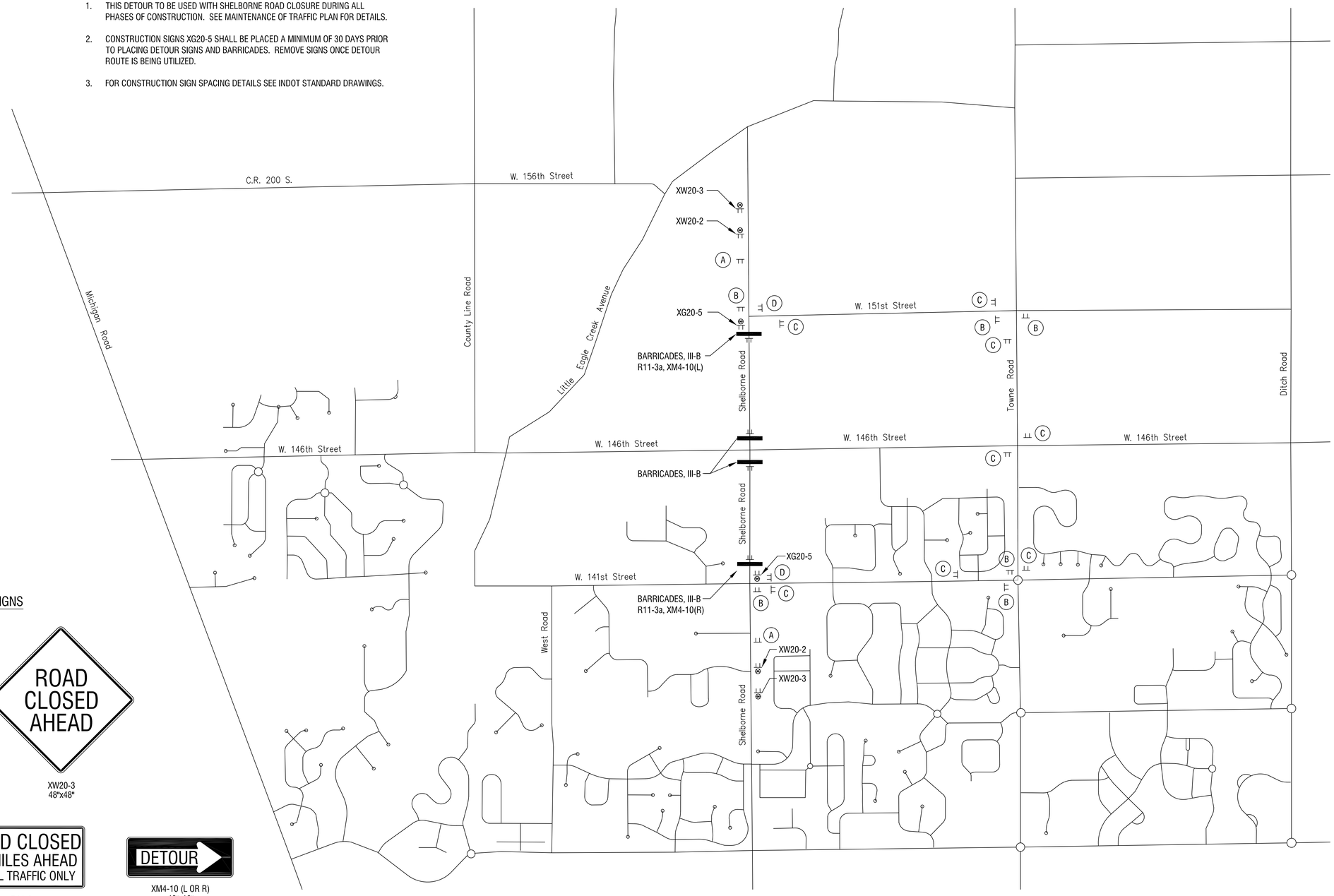
B
- DETOUR — XM4-8
- SHELBORNE ROAD
- M6-1S

C
- DETOUR — XM4-8
- NORTH — M3-1S OR M3-3S
- SHELBORNE ROAD
- M6-3S

D
- END — XM4-6S
- DETOUR — XM4-8
- SHELBORNE ROAD
- M5-1S (L OR R)

DETOUR NOTES:

1. THIS DETOUR TO BE USED WITH SHELBORNE ROAD CLOSURE DURING ALL PHASES OF CONSTRUCTION. SEE MAINTENANCE OF TRAFFIC PLAN FOR DETAILS.
2. CONSTRUCTION SIGNS XG20-5 SHALL BE PLACED A MINIMUM OF 30 DAYS PRIOR TO PLACING DETOUR SIGNS AND BARRICADES. REMOVE SIGNS ONCE DETOUR ROUTE IS BEING UTILIZED.
3. FOR CONSTRUCTION SIGN SPACING DETAILS SEE INDOT STANDARD DRAWINGS.



CONSTRUCTION SIGNS

DETOUR AHEAD
XW20-2
48"x48"

ROAD CLOSED AHEAD
XW20-3
48"x48"

Shelborne Rd Closed On or After _____
XG20-5
60"x36"

ROAD CLOSED
XX MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3a
60"x30"

DETOUR
XM4-10 (L OR R)
48"x18"

Stage 3 Plans

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

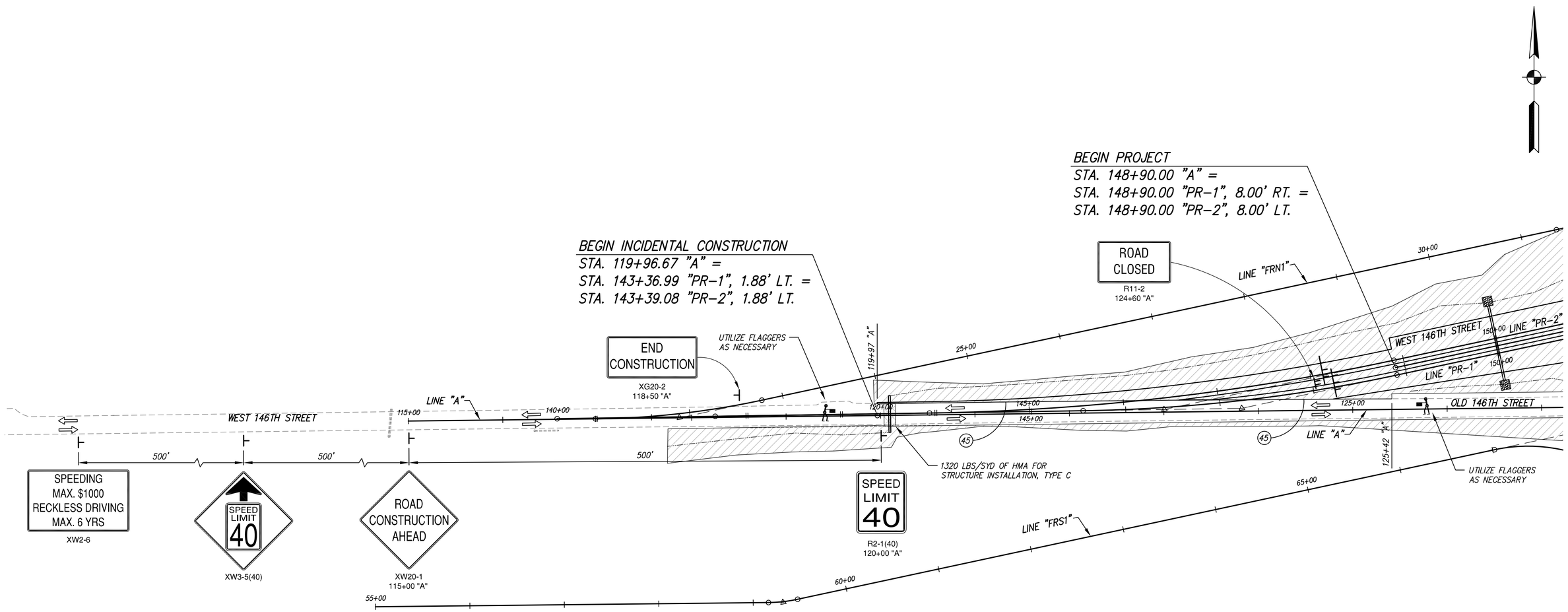
DESIGNED: J.L.B. DRAWN: G.S.H.

CHECKED: D.W.C. CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

SHELBORNE ROAD DETOUR MAP
M.O.T. – ALL PHASES

HORIZONTAL SCALE	BRIDGE FILE
1" = 1000'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
	10 of 148
CONTRACT	PROJECT
R-38240	1401702



PHASE I STAGE I – SEQUENCE OF CONSTRUCTION

1. MAINTAIN THROUGH TRAFFIC ON EXISTING 146TH STREET (LINE "A") AND EXISTING INTERIM CONNECTOR ROAD AT EAST END OF PROJECT. INSTALL TEMPORARY PAVEMENT MARKINGS AS SHOWN. SPEED LIMIT SHALL BE POSTED AT 40 MPH DURING THIS PHASE.
2. CONSTRUCT FOUR DETENTION PONDS AT EXISTING 146TH STREET AND SHELBORNE ROAD (LINE "S-2-A") AS SHOWN.
3. CONSTRUCT FOUR PERMANENT DRAINAGE STRUCTURES ACROSS EXISTING 146TH STREET AS SHOWN USING FLAGGERS AS NECESSARY AND THEN PATCH WITH HMA FOR STRUCTURE INSTALLATION, TYPE C.
4. CONSTRUCT ALL OF SHELBORNE ROAD AND ENTIRE ROUNDABOUT EXCEPT FOR PORTION OF SOUTH LEG WHICH IS WITHIN THE EXISTING 146TH STREET CORRIDOR. CONSTRUCT NEW INTERIM CONNECTOR ROAD (LINES "PR-1" & "PR-2") AT WEST END OF PROJECT. CONSTRUCT WESTBOUND LANES AND MEDIAN OF NEW 146TH STREET (LINE "PR-A") FROM STATION 151+00 TO STATION 198+00. CONSTRUCT EASTBOUND LANES OF NEW 146TH STREET FROM STATION 151+00 TO DRAINAGE HIGH POINT AT STATION 182+00. CONSTRUCT ALL OF NORTHWEST FRONTAGE ROAD (LINE "FRN1") AND ALL OF SOUTHEAST FRONTAGE ROAD (LINE "FRS2"). CONSTRUCT NORTHEAST FRONTAGE ROAD (LINE "FRN2") FROM SHELBORNE ROAD TO STATION 29+12.52 AND FROM STATION 49+62.53 TO EXISTING FRONTAGE ROAD (BY OTHERS) AT EAST END OF PROJECT.

MAINTENANCE OF TRAFFIC NOTES

1. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH EACH MAINTENANCE OF TRAFFIC SCHEME SHALL BE REMOVED PRIOR TO CONSTRUCTION.
2. WHENEVER POSSIBLE PRIVATE DRIVEWAYS SHALL BE CONSTRUCTED IN PORTIONS TO ALLOW ACCESS TO PROPERTIES AT ALL TIMES. WHENEVER PRIVATE DRIVEWAYS ARE TOO NARROW TO ACCOMMODATE CONTINUOUS ACCESS, THE CONTRACTOR SHALL CONTACT THE PROPERTY OWNER AND WORK OUT A TIME SCHEDULE FOR DRIVEWAY CONSTRUCTION THAT WILL CAUSE THE LEAST INCONVENIENCE TO THE PROPERTY OWNER.
3. STREET APPROACHES ARE TO BE CLOSED TO THROUGH TRAFFIC DURING THEIR CONSTRUCTION. BEFORE ANY CLOSURES ARE MADE, THE CONTRACTOR MUST FIRST CONTACT LOCAL OFFICIALS, POLICE, FIRE, LOCAL SCHOOL OFFICIALS, U.S. POSTAL SERVICE, AND OTHERS AS NECESSARY TO MINIMIZE DISRUPTIONS TO LOCAL SERVICE. NO TWO ADJACENT APPROACHES SHALL BE CLOSED AT THE SAME TIME.
4. UTILIZE FLAGGERS AS NEEDED FOR SHORT DURATIONS. FOR TEMPORARY ADVANCE SIGNING REQUIREMENTS, SEE INDOT STANDARD DRAWINGS.
5. FOR DETAILS AND SPACING OF DETOUR SIGNS, CONSTRUCTION SIGNS AND CHANNELIZATION DEVICES, SEE INDOT STANDARD DRAWINGS.
6. ADVANCE SIGNING TO BE IN PLACE AT BEGINNING AND END OF PROJECT BEFORE PRIOR TO ANY CONSTRUCTION ACTIVITY.

LEGEND

- (45) TEMPORARY PAVEMENT MARKING, 4" (WHITE)
- (46) TEMPORARY PAVEMENT MARKING, 4" (YELLOW)
- CONSTRUCTION SIGN (A, B OR C)
- SIGN ASSEMBLY (ROAD CLOSURE OR DETOUR ROUTE MARKER)
- BARRICADE, III-B
- TRAFFIC FLOW DIRECTION
- FLAGGER
- AREA TO BE CONSTRUCTED DURING THIS PHASE
- AREA TO BE CONSTRUCTED USING FLAGGERS IF NECESSARY

Stage 3 Plans

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: J.L.B. DRAWN: G.S.H.

CHECKED: D.W.C. CHECKED: J.L.B.

INDIANA DEPARTMENT OF TRANSPORTATION

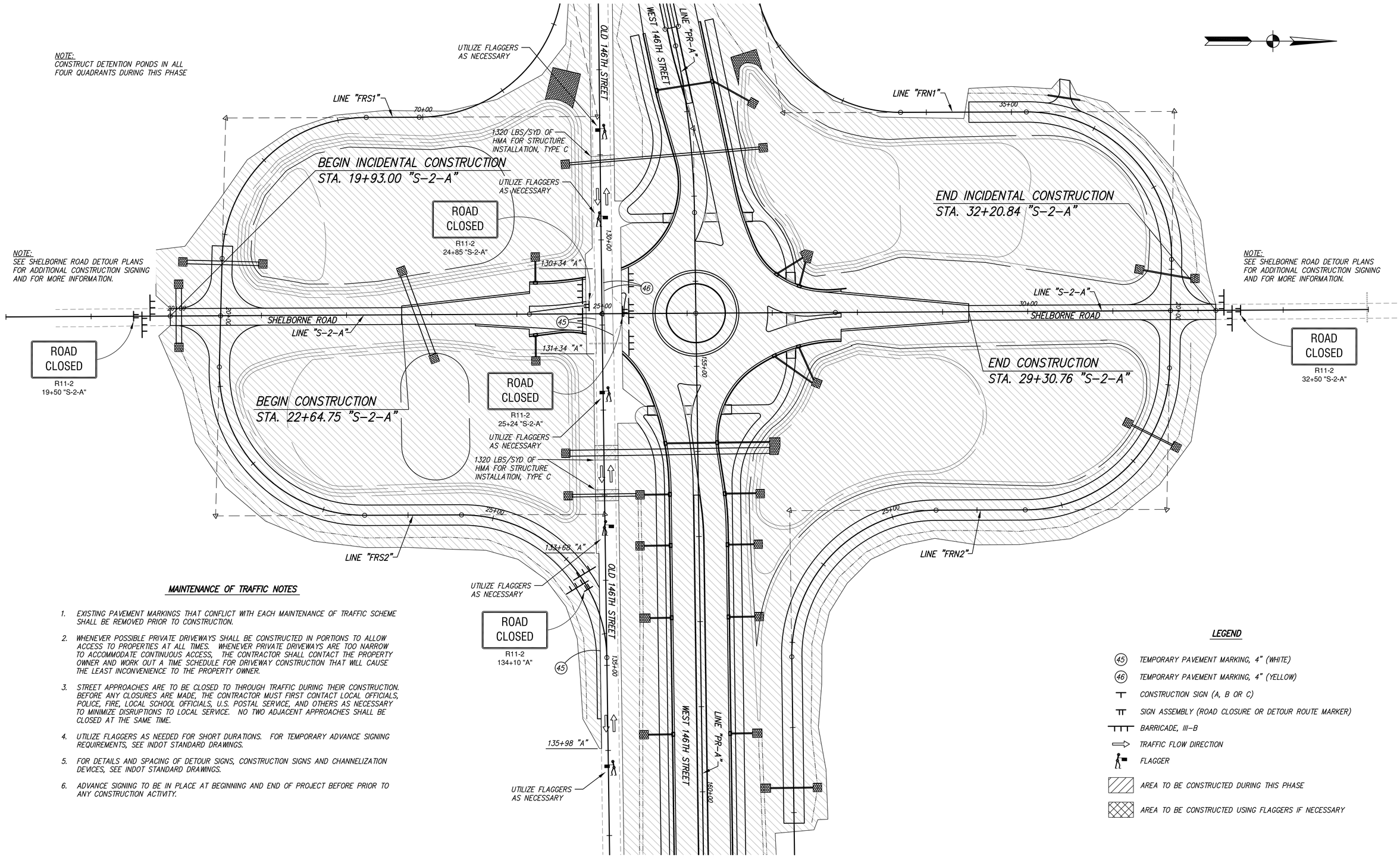
MAINTENANCE OF TRAFFIC PHASE I STAGE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
	11 of 148
CONTRACT	PROJECT
R-38240	1401702

NOTE:
CONSTRUCT DETENTION PONDS IN ALL FOUR QUADRANTS DURING THIS PHASE

NOTE:
SEE SHELBORNE ROAD DETOUR PLANS FOR ADDITIONAL CONSTRUCTION SIGNING AND FOR MORE INFORMATION.

NOTE:
SEE SHELBORNE ROAD DETOUR PLANS FOR ADDITIONAL CONSTRUCTION SIGNING AND FOR MORE INFORMATION.



MAINTENANCE OF TRAFFIC NOTES

1. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH EACH MAINTENANCE OF TRAFFIC SCHEME SHALL BE REMOVED PRIOR TO CONSTRUCTION.
2. WHENEVER POSSIBLE PRIVATE DRIVEWAYS SHALL BE CONSTRUCTED IN PORTIONS TO ALLOW ACCESS TO PROPERTIES AT ALL TIMES. WHENEVER PRIVATE DRIVEWAYS ARE TOO NARROW TO ACCOMMODATE CONTINUOUS ACCESS, THE CONTRACTOR SHALL CONTACT THE PROPERTY OWNER AND WORK OUT A TIME SCHEDULE FOR DRIVEWAY CONSTRUCTION THAT WILL CAUSE THE LEAST INCONVENIENCE TO THE PROPERTY OWNER.
3. STREET APPROACHES ARE TO BE CLOSED TO THROUGH TRAFFIC DURING THEIR CONSTRUCTION. BEFORE ANY CLOSURES ARE MADE, THE CONTRACTOR MUST FIRST CONTACT LOCAL OFFICIALS, POLICE, FIRE, LOCAL SCHOOL OFFICIALS, U.S. POSTAL SERVICE, AND OTHERS AS NECESSARY TO MINIMIZE DISRUPTIONS TO LOCAL SERVICE. NO TWO ADJACENT APPROACHES SHALL BE CLOSED AT THE SAME TIME.
4. UTILIZE FLAGGERS AS NEEDED FOR SHORT DURATIONS. FOR TEMPORARY ADVANCE SIGNING REQUIREMENTS, SEE INDOT STANDARD DRAWINGS.
5. FOR DETAILS AND SPACING OF DETOUR SIGNS, CONSTRUCTION SIGNS AND CHANNELIZATION DEVICES, SEE INDOT STANDARD DRAWINGS.
6. ADVANCE SIGNING TO BE IN PLACE AT BEGINNING AND END OF PROJECT BEFORE PRIOR TO ANY CONSTRUCTION ACTIVITY.

LEGEND

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- (46) TEMPORARY PAVEMENT MARKING, 4" (YELLOW)
- CONSTRUCTION SIGN (A, B OR C)
- SIGN ASSEMBLY (ROAD CLOSURE OR DETOUR ROUTE MARKER)
- BARRICADE, III-B
- TRAFFIC FLOW DIRECTION
- FLAGGER
- AREA TO BE CONSTRUCTED DURING THIS PHASE
- AREA TO BE CONSTRUCTED USING FLAGGERS IF NECESSARY

Stage 3 Plans

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

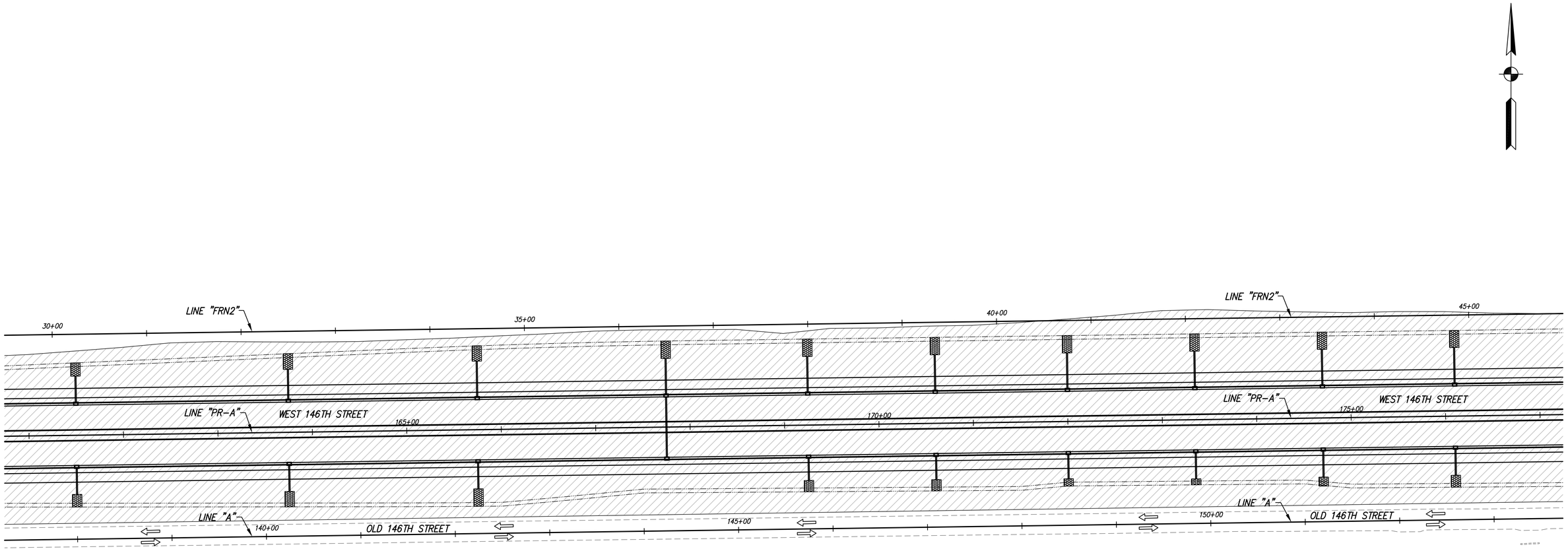
DESIGNED: J.L.B. DRAWN: G.S.H.

CHECKED: D.W.C. CHECKED: J.L.B.

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE I STAGE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
	12 of 148
CONTRACT	PROJECT
R-38240	1401702



MAINTENANCE OF TRAFFIC NOTES

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LEGEND

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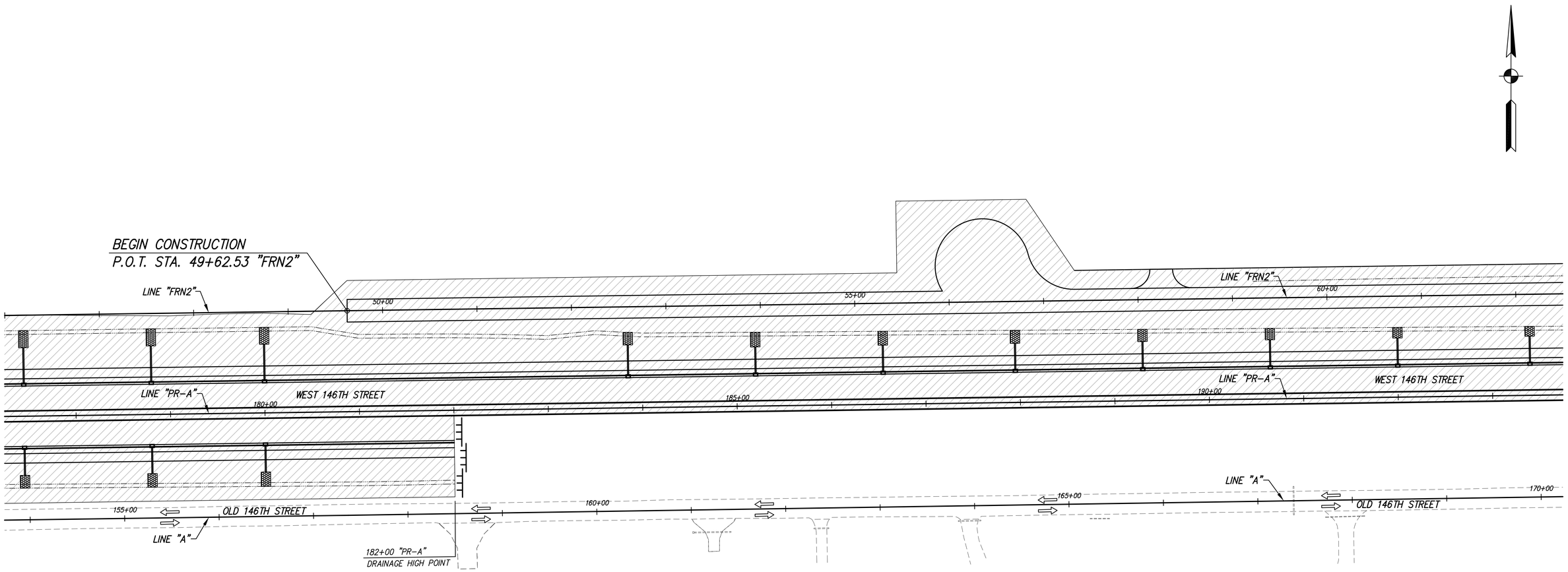
- BARRICADE, III-B
- TRAFFIC FLOW DIRECTION
- FLAGGER
- AREA TO BE CONSTRUCTED DURING THIS PHASE
- AREA TO BE CONSTRUCTED USING FLAGGERS IF NECESSARY

Stage 3 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 50' / BRIDGE FILE
			VERTICAL SCALE / DESIGNATION 1401702
	DESIGNED: J.L.B. / DRAWN: G.S.H.	MAINTENANCE OF TRAFFIC PHASE I STAGE I	SURVEY BOOK / SHEETS 13 of 148
	CHECKED: D.W.C. / CHECKED: J.L.B.		CONTRACT R-38240 / PROJECT 1401702



MAINTENANCE OF TRAFFIC NOTES

1. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH EACH MAINTENANCE OF TRAFFIC SCHEME SHALL BE REMOVED PRIOR TO CONSTRUCTION.
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5. FOR DETAILS AND SPACING OF DETOUR SIGNS, CONSTRUCTION SIGNS AND CHANNELIZATION DEVICES, SEE INDOT STANDARD DRAWINGS.
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LEGEND

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- (46) TEMPORARY PAVEMENT MARKING, 4" (YELLOW)
- CONSTRUCTION SIGN (A, B OR C)
- SIGN ASSEMBLY (ROAD CLOSURE OR DETOUR ROUTE MARKER)
- BARRICADE, III-B
- TRAFFIC FLOW DIRECTION
- FLAGGER
- AREA TO BE CONSTRUCTED DURING THIS PHASE
- AREA TO BE CONSTRUCTED USING FLAGGERS IF NECESSARY

Stage 3 Plans

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: J.L.B. DRAWN: G.S.H.
CHECKED: D.W.C. CHECKED: J.L.B.

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE I STAGE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
R-38240	1401702

END CONSTRUCTION
STA. 69+74.06 "FRN2"=
STA. 201+00.00 "PR-A", 107.00' LT.

CONNECT TO EXISTING FRONTAGE ROAD

END PROJECT
STA. 201.00.00 "PR-A"=
STA. 177+50.13 "A", 106.75' LT.

ROAD CLOSED TO THRU TRAFFIC
R11-4
201+23 "PR-A"

SPEED LIMIT 40
R2-1(25)
201+23 "PR-A"

ROAD CONSTRUCTION AHEAD
XW20-1
206+23 "PR-A"

TOWNE ROAD

65+00
LINE "FRN2"
198+00 "PR-A"
500'
500'
WEST 146TH STREET
LINE "PR-A"
195+00
200+00
WEST 146TH STREET
205+00
LINE "PR-A"
WEST 146TH STREET
MATCH LINE – WEST 146TH STREET
175+00
LINE "A"
OLD 146TH STREET
180+00
LINE "A"

LEAVE PERMANENT BARRICADES, III-B
IN PLACE UNTIL PHASE I STAGE II

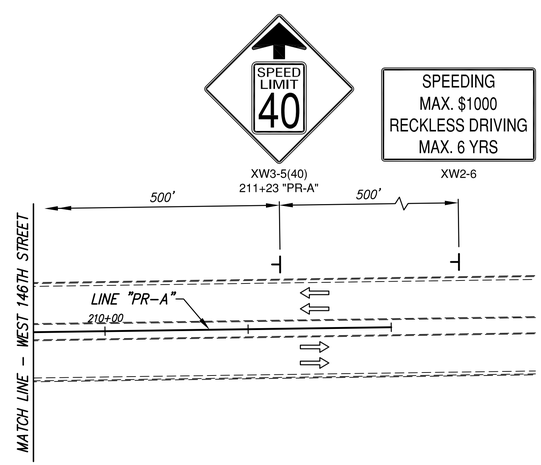
END CONSTRUCTION
XG20-2
202+50 "PR-A"

END RESURFACE
STA. 177+50.13 "A"

TOWNE ROAD

LEGEND

- (45) TEMPORARY PAVEMENT MARKING, 4" (WHITE)
- (46) TEMPORARY PAVEMENT MARKING, 4" (YELLOW)
- CONSTRUCTION SIGN (A, B OR C)
- SIGN ASSEMBLY (ROAD CLOSURE OR DETOUR ROUTE MARKER)
- BARRICADE, III-B
- TRAFFIC FLOW DIRECTION
- FLAGGER
- AREA TO BE CONSTRUCTED DURING THIS PHASE
- AREA TO BE CONSTRUCTED USING FLAGGERS IF NECESSARY



MAINTENANCE OF TRAFFIC NOTES

1. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH EACH MAINTENANCE OF TRAFFIC SCHEME SHALL BE REMOVED PRIOR TO CONSTRUCTION.
2. WHENEVER POSSIBLE PRIVATE DRIVEWAYS SHALL BE CONSTRUCTED IN PORTIONS TO ALLOW ACCESS TO PROPERTIES AT ALL TIMES. WHENEVER PRIVATE DRIVEWAYS ARE TOO NARROW TO ACCOMMODATE CONTINUOUS ACCESS, THE CONTRACTOR SHALL CONTACT THE PROPERTY OWNER AND WORK OUT A TIME SCHEDULE FOR DRIVEWAY CONSTRUCTION THAT WILL CAUSE THE LEAST INCONVENIENCE TO THE PROPERTY OWNER.
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5. FOR DETAILS AND SPACING OF DETOUR SIGNS, CONSTRUCTION SIGNS AND CHANNELIZATION DEVICES, SEE INDOT STANDARD DRAWINGS.
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Stage 3 Plans

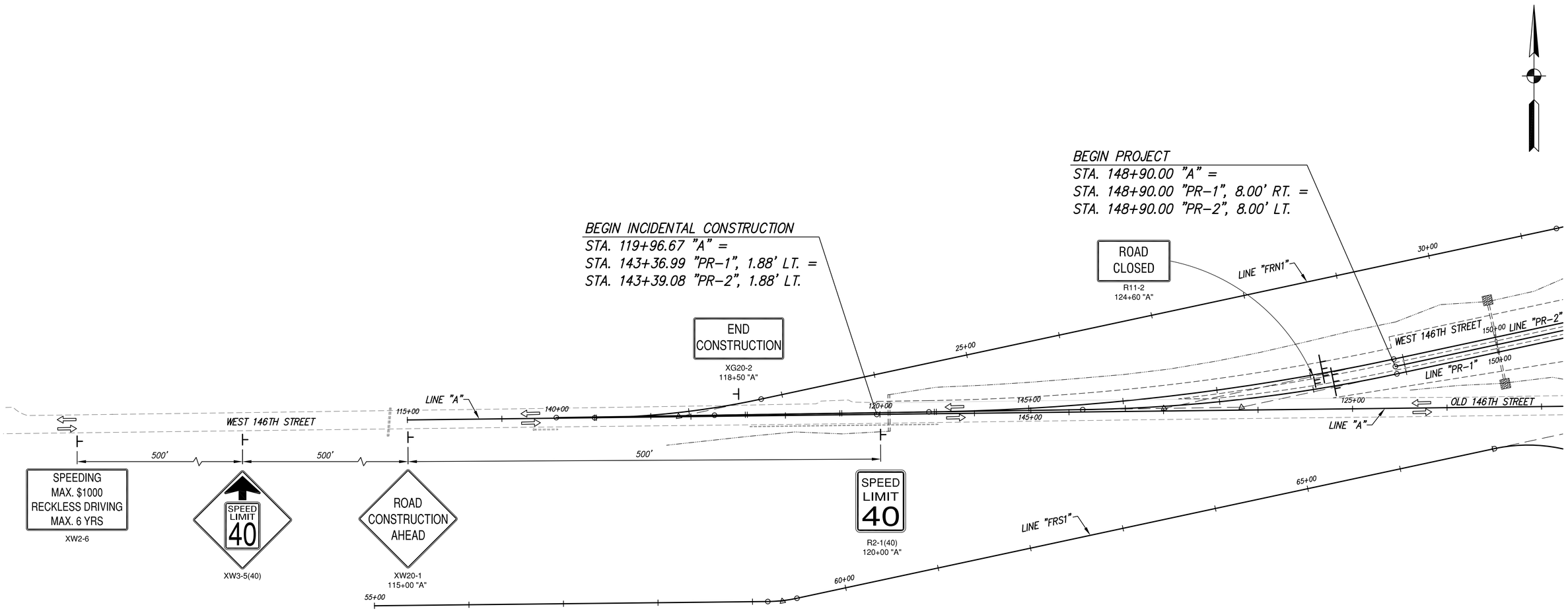
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: J.L.B. DRAWN: G.S.H.
CHECKED: D.W.C. CHECKED: J.L.B.

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE I STAGE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
	15 of 148
CONTRACT	PROJECT
R-38240	1401702



PHASE I STAGE II – SEQUENCE OF CONSTRUCTION

1. REMOVE PAVEMENT MARKINGS ON EXISTING 146TH STREET (LINE "A") AT TIE–IN LOCATION OF EXISTING INTERIM CONNECTOR ROAD AT EAST END OF PROJECT AND INSTALL TEMPORARY PAVEMENT MARKINGS AS SHOWN. REMOVE PERMANENT BARRICADES FROM EXISTING 146TH STREET AT STATION 174+50.
2. MAINTAIN THROUGH TRAFFIC ON EXISTING 146TH STREET AND SHIFT TRAFFIC FROM EXISTING INTERIM CONNECTOR ROAD AT EAST END OF PROJECT TO EXISTING FRONTAGE ROAD. REMOVE PAVEMENT MARKINGS ON EXISTING 146TH STREET AT TIE–IN LOCATION OF EXISTING INTERIM CONNECTOR ROAD AT EAST END OF PROJECT AND INSTALL TEMPORARY PAVEMENT MARKINGS AS SHOWN.
3. CONSTRUCT WESTBOUND LANES AND MEDIAN OF NEW 146TH STREET (LINE "PR–A") FROM STATION 198+00 TO STATION 201+00. CONSTRUCT EASTBOUND LANES OF NEW 146TH STREET FROM DRAINAGE HIGH POINT AT STATION 182+00 TO STATION 201+00.
4. **PLACE HMA SURFACE AND PERMANENT PAVEMENT MARKINGS BEFORE SHIFTING TRAFFIC TO NEWLY CONSTRUCTED 146TH STREET FOR PHASE II.**

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LEGEND

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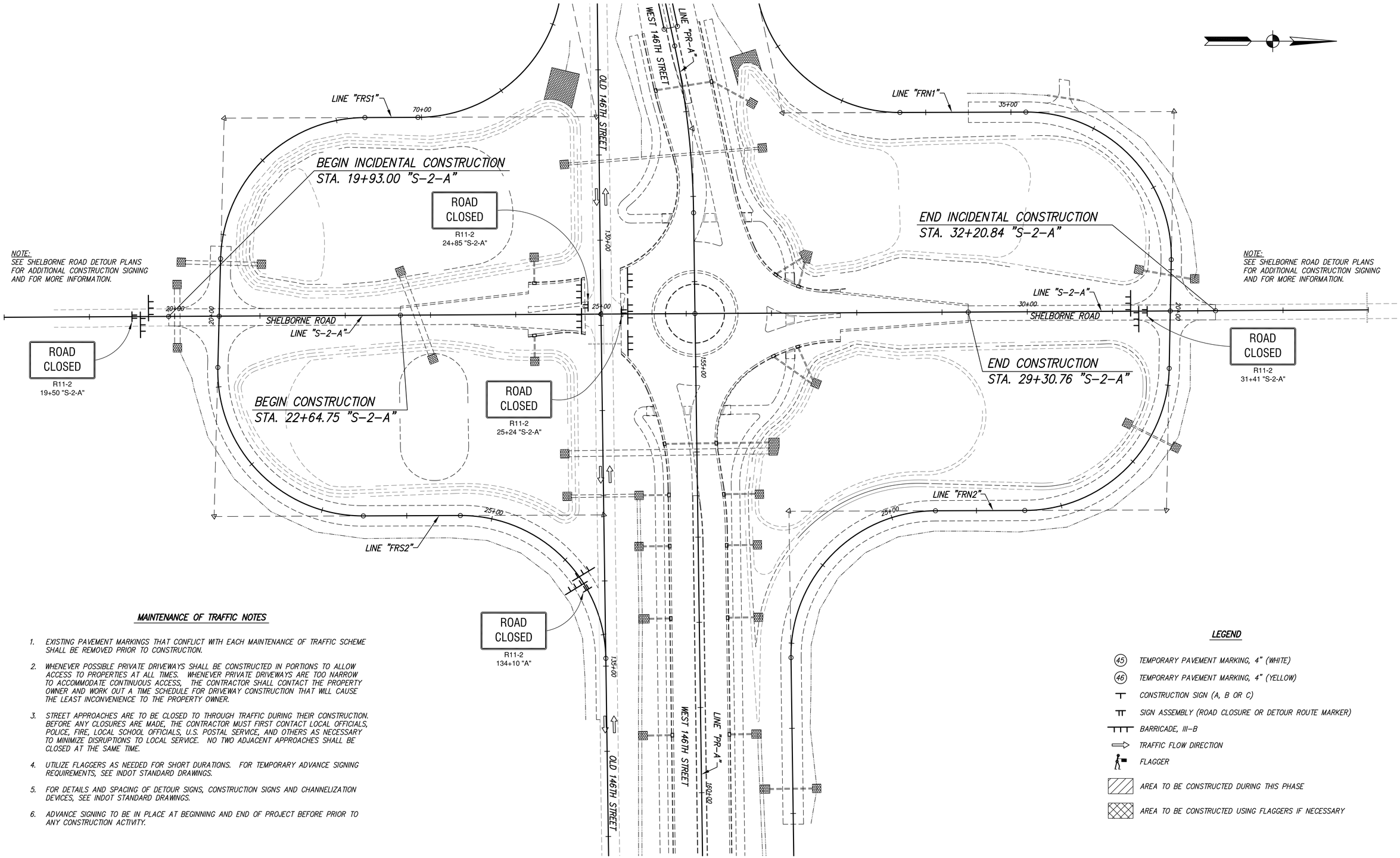
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE I STAGE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
	16 of 148
CONTRACT	PROJECT
R–38240	1401702



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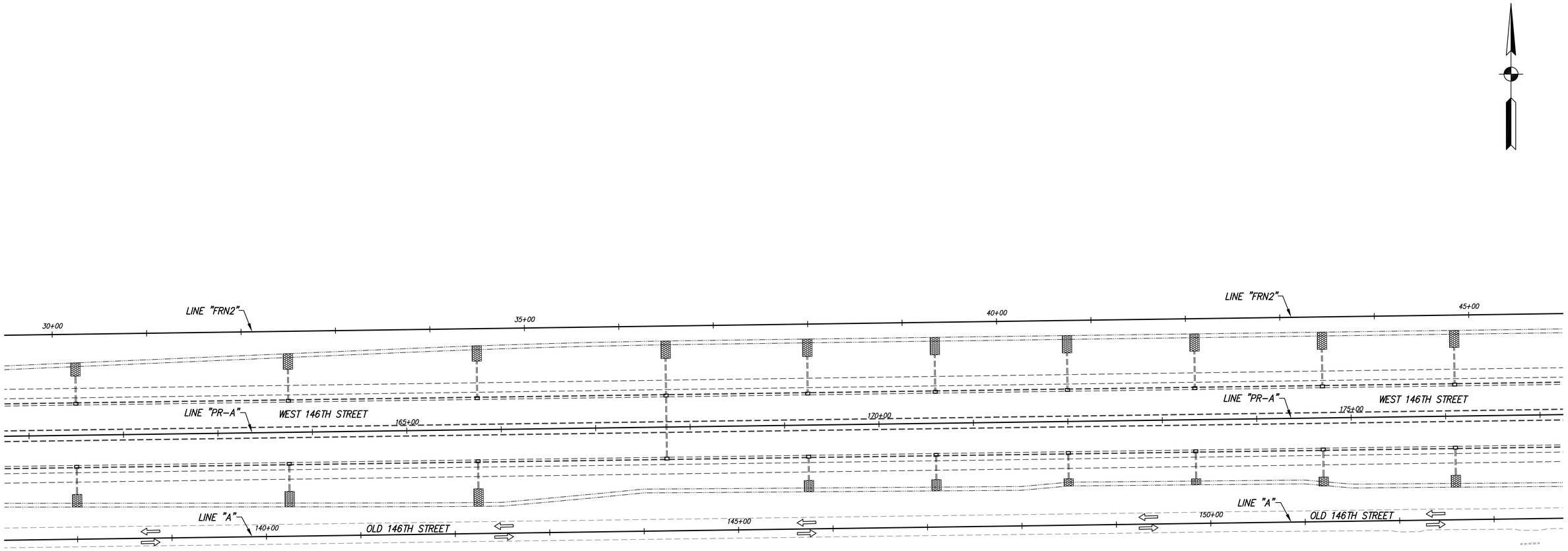
PHASE I STAGE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
	17 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE I STAGE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
	18 of 148
CONTRACT	PROJECT
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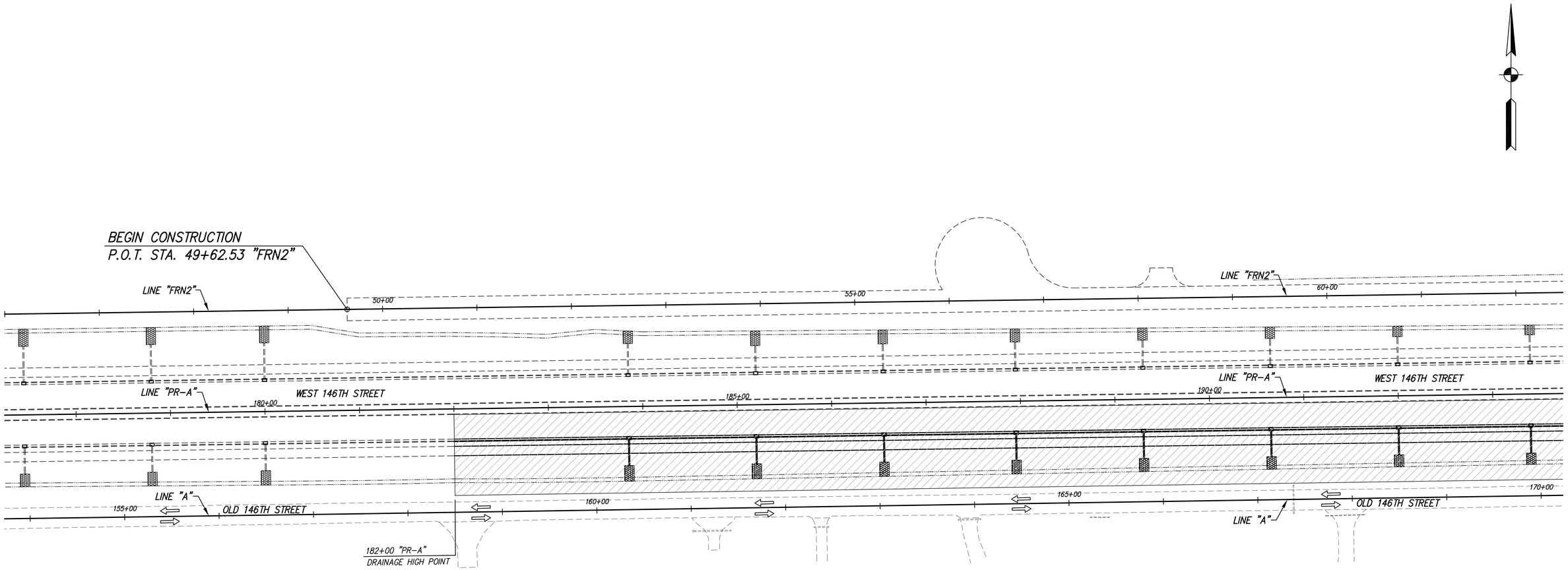

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MAINTENANCE OF TRAFFIC
PHASE I STAGE II

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1" = 50'	
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	19 of 148
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R-38240	1401702

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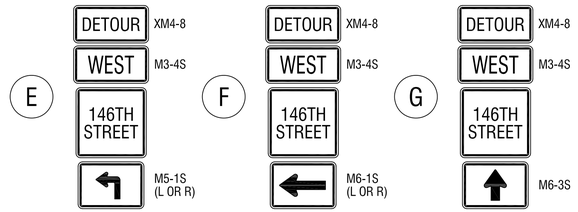
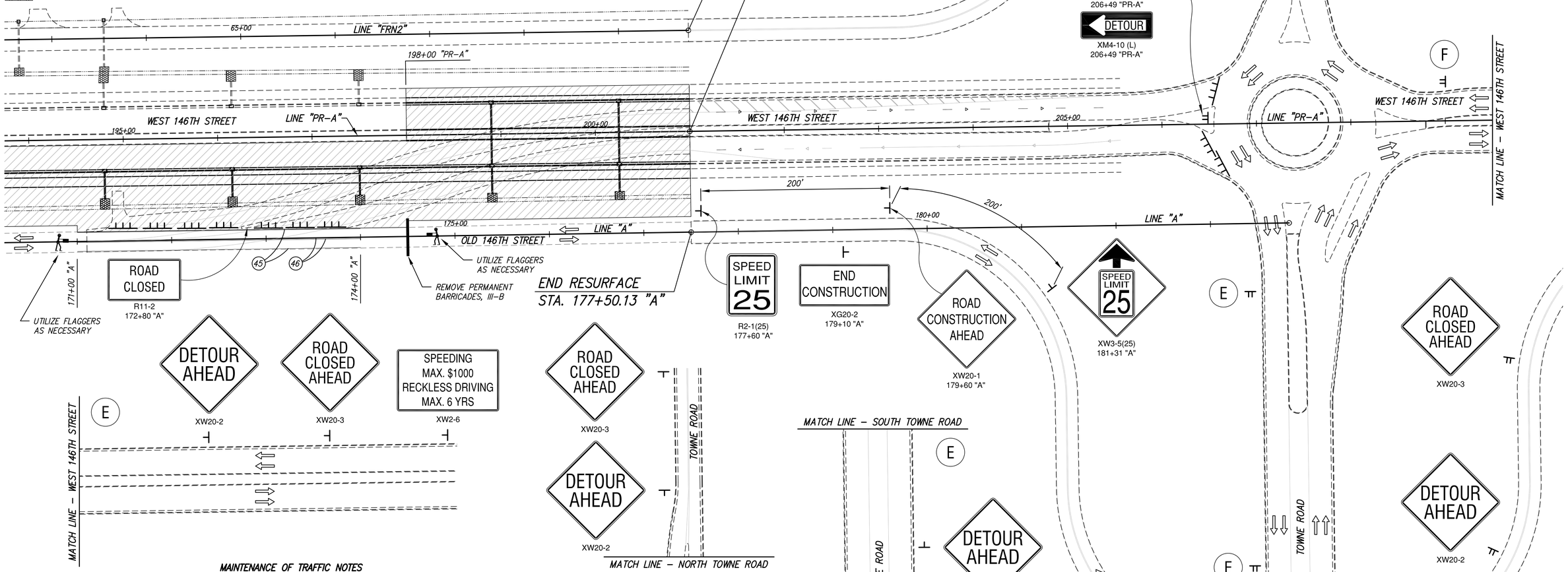
DETOUR ROUTE MARKER ASSEMBLIES



END CONSTRUCTION
STA. 69+74.06 "FRN2"=
STA. 201+00.00 "PR-A", 107.00' LT.

END PROJECT
STA. 201.00.00 "PR-A"=
STA. 177+50.13 "A", 106.75' LT.



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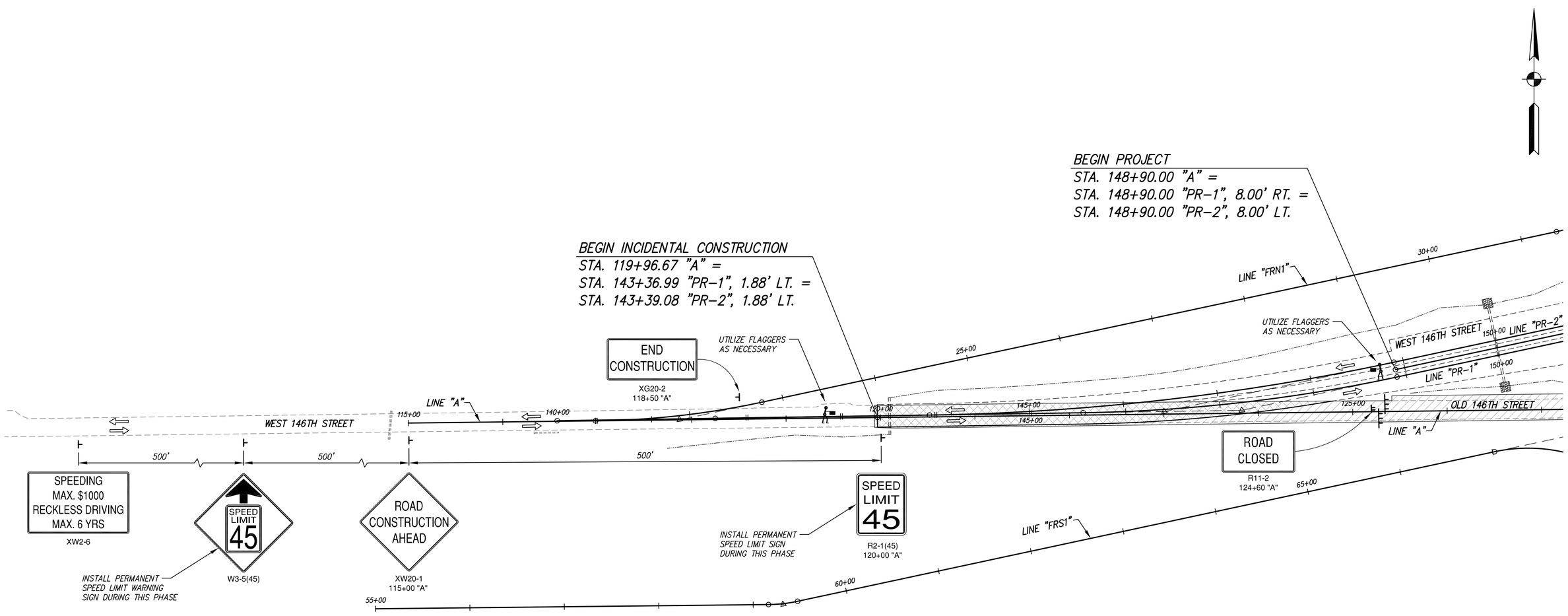
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE I STAGE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
	20 of 148
CONTRACT	PROJECT
R-38240	1401702



PHASE II – SEQUENCE OF CONSTRUCTION

1. SHIFT TRAFFIC ONTO NEWLY CONSTRUCTED 146TH STREET (LINE "PR-A") AND NEWLY CONSTRUCTED INTERIM CONNECTOR ROAD (LINES "PR-1" & "PR-2") AT WEST END OF PROJECT.
2. REMOVE EXISTING 146TH STREET (LINE "A") PAVEMENT BETWEEN NEWLY CONSTRUCTED INTERIM CONNECTOR ROAD AT WEST END OF PROJECT AND NEWLY CONSTRUCTED FRONTAGE ROAD (LINE "FRS2").
3. CONSTRUCT TWO PERMANENT DRAINAGE STRUCTURES, TWO SIDEWALK/TRAIL CONNECTIONS WITH CURB RAMPS, AND SOUTH LEG OF ROUNDABOUT ON SHELBORNE ROAD WITHIN THE EXISTING 146TH STREET CORRIDOR AS SHOWN.
4. MILL AND RESURFACE EXISTING 146TH STREET FROM STATION 119+96.66 TO STATION 124+79.72 AT TIE-IN LOCATION OF NEWLY CONSTRUCTED INTERIM CONNECTOR ROAD AND FROM NEWLY CONSTRUCTED FRONTAGE ROAD (LINE "FRS2") TO EXISTING FRONTAGE ROAD AT EAST END OF PROJECT AND INSTALL PERMANENT PAVEMENT MARKINGS.
5. COMPLETE FINAL GRADING AND CLEANUP (NOT SHOWN).

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HORIZONTAL SCALE	BRIDGE FILE
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	1401702
SURVEY BOOK	SHEETS
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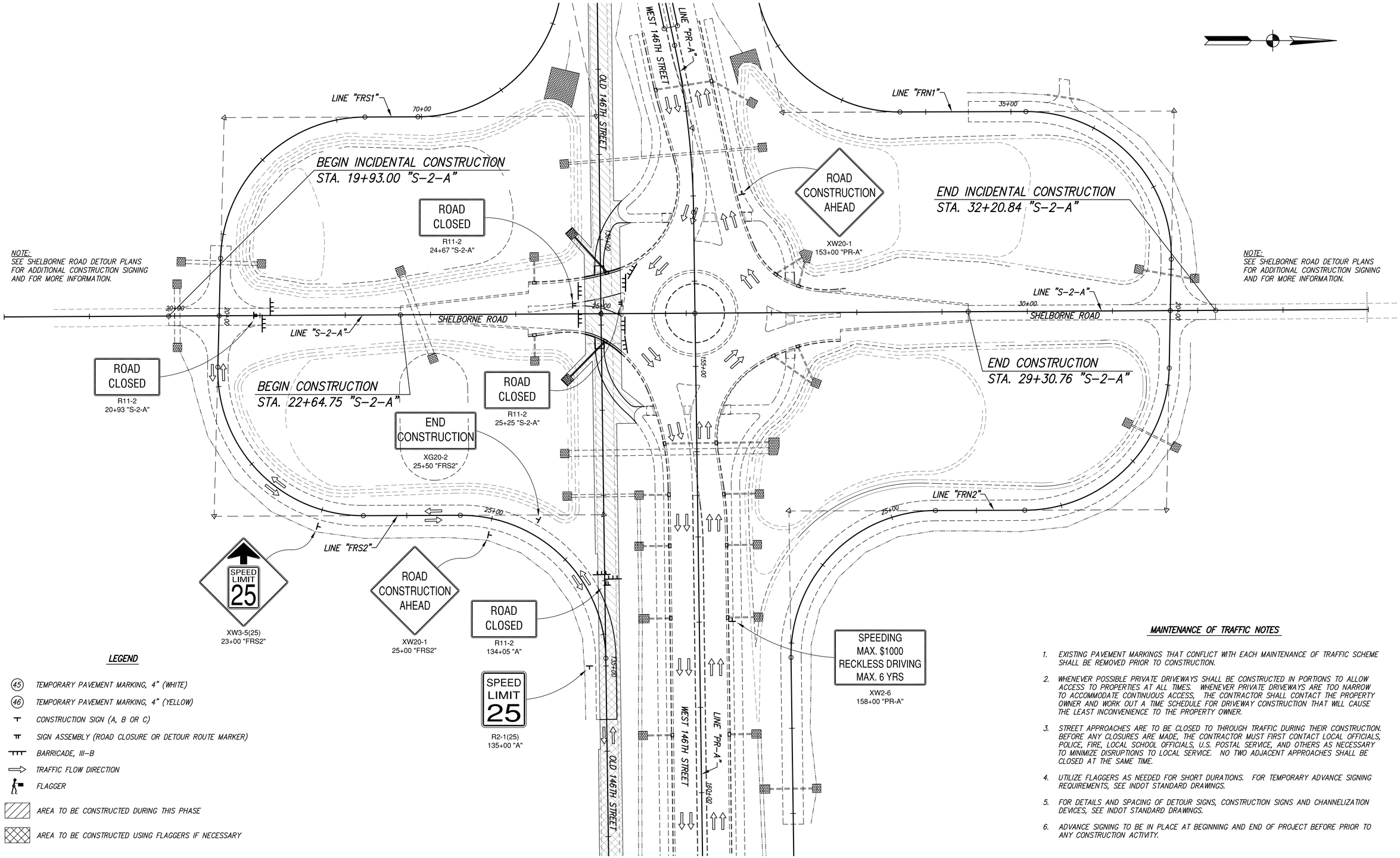

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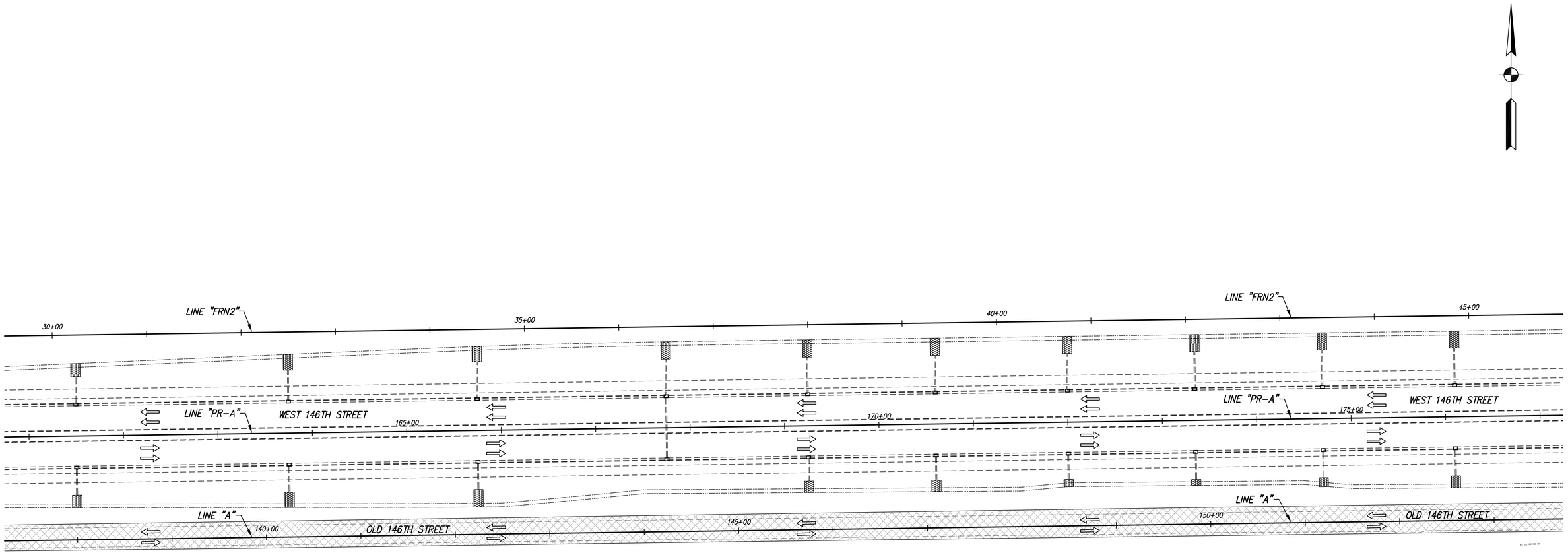

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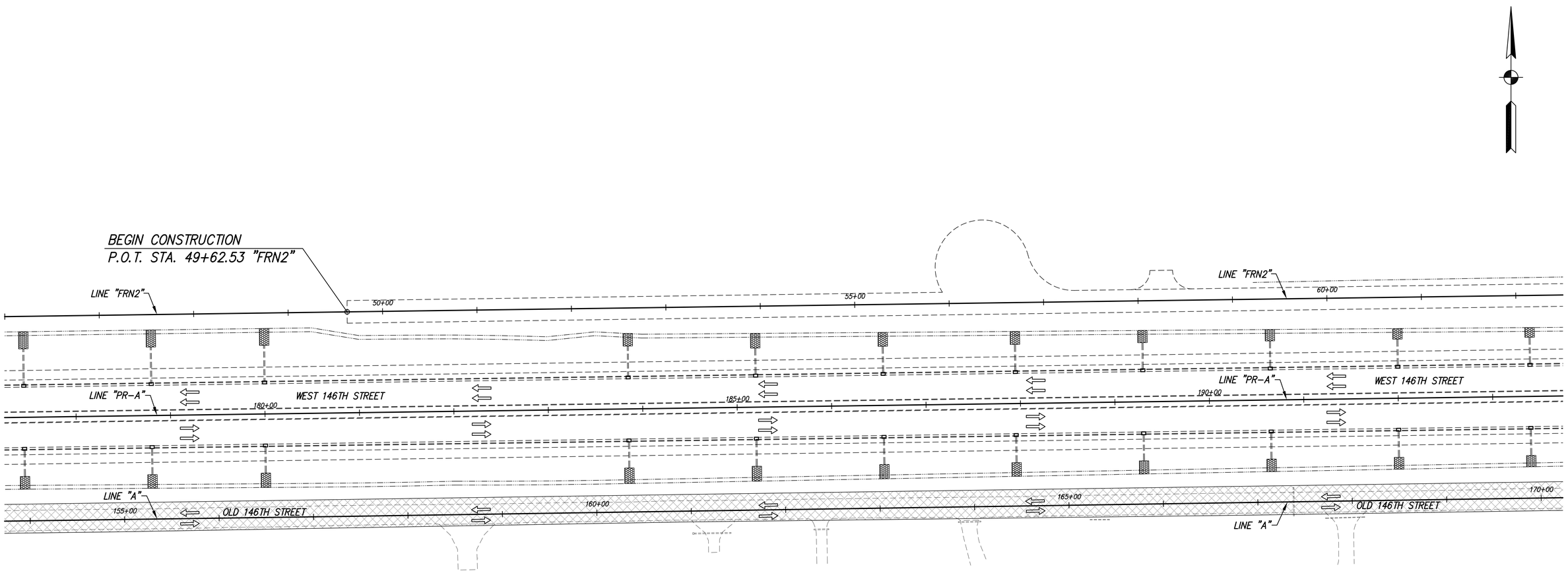
3. STREET APPROACHES ARE TO BE CLOSED TO THROUGH TRAFFIC DURING THEIR CONSTRUCTION. BEFORE ANY CLOSURES ARE MADE, THE CONTRACTOR MUST FIRST CONTACT LOCAL OFFICIALS, POLICE, FIRE, LOCAL SCHOOL OFFICIALS, U.S. POSTAL SERVICE, AND OTHERS AS NECESSARY TO MINIMIZE DISRUPTIONS TO LOCAL SERVICE. NO TWO ADJACENT APPROACHES SHALL BE CLOSED AT THE SAME TIME.
4. UTILIZE FLAGGERS AS NEEDED FOR SHORT DURATIONS. FOR TEMPORARY ADVANCE SIGNING REQUIREMENTS, SEE INDOT STANDARD DRAWINGS.
5. FOR DETAILS AND SPACING OF DETOUR SIGNS, CONSTRUCTION SIGNS AND CHANNELIZATION DEVICES, SEE INDOT STANDARD DRAWINGS.
6. ADVANCE SIGNING TO BE IN PLACE AT BEGINNING AND END OF PROJECT BEFORE PRIOR TO ANY CONSTRUCTION ACTIVITY.

LEGEND

- (45) TEMPORARY PAVEMENT MARKING, 4" (WHITE)
- (46) TEMPORARY PAVEMENT MARKING, 4" (YELLOW)
- CONSTRUCTION SIGN (A, B OR C)
- SIGN ASSEMBLY (ROAD CLOSURE OR DETOUR ROUTE MARKER)
- BARRICADE, III-B
- TRAFFIC FLOW DIRECTION
- FLAGGER
- AREA TO BE CONSTRUCTED DURING THIS PHASE
- AREA TO BE CONSTRUCTED USING FLAGGERS IF NECESSARY

Stage 3 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 50' / BRIDGE FILE
	DESIGNED: J.L.B. / DRAWN: G.S.H.	MAINTENANCE OF TRAFFIC PHASE II	VERTICAL SCALE / DESIGNATION 1401702
	CHECKED: D.W.C. / CHECKED: J.L.B.		SURVEY BOOK / SHEETS 23 of 148
			CONTRACT R-38240 / PROJECT 1401702



MAINTENANCE OF TRAFFIC NOTES

1. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH EACH MAINTENANCE OF TRAFFIC SCHEME SHALL BE REMOVED PRIOR TO CONSTRUCTION.
2. WHENEVER POSSIBLE PRIVATE DRIVEWAYS SHALL BE CONSTRUCTED IN PORTIONS TO ALLOW ACCESS TO PROPERTIES AT ALL TIMES. WHENEVER PRIVATE DRIVEWAYS ARE TOO NARROW TO ACCOMMODATE CONTINUOUS ACCESS, THE CONTRACTOR SHALL CONTACT THE PROPERTY OWNER AND WORK OUT A TIME SCHEDULE FOR DRIVEWAY CONSTRUCTION THAT WILL CAUSE THE LEAST INCONVENIENCE TO THE PROPERTY OWNER.
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- BARRICADE, III-B
- TRAFFIC FLOW DIRECTION
- FLAGGER
- AREA TO BE CONSTRUCTED DURING THIS PHASE
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Stage 3 Plans

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: J.L.B. DRAWN: G.S.H.
CHECKED: D.W.C. CHECKED: J.L.B.

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
	24 of 148
CONTRACT	PROJECT
R-38240	1401702

END CONSTRUCTION
STA. 69+74.06 "FRN2"=
STA. 201+00.00 "PR-A", 107.00' LT.

END PROJECT
STA. 201.00.00 "PR-A"=
STA. 177+50.13 "A", 106.75' LT.

LINE "FRN2"
65+00
LINE "PR-A"
WEST 146TH STREET
195+00
200+00
205+00
210+00
LINE "A"
175+00
OLD 146TH STREET
180+00
200'
200'
TOWNE ROAD

END RESURFACE
STA. 177+50.13 "A"

SPEED LIMIT 25
R2-1(25)
177+60 "A"

END CONSTRUCTION
XG20-2
179+10 "A"

ROAD CONSTRUCTION AHEAD
XW20-1
179+60 "A"

SPEED LIMIT 25
XW3-5(25)
181+31 "A"

LEGEND

- (45) TEMPORARY PAVEMENT MARKING, 4" (WHITE)
- (46) TEMPORARY PAVEMENT MARKING, 4" (YELLOW)
- CONSTRUCTION SIGN (A, B OR C)
- SIGN ASSEMBLY (ROAD CLOSURE OR DETOUR ROUTE MARKER)
- BARRICADE, III-B
- TRAFFIC FLOW DIRECTION
- FLAGGER
- AREA TO BE CONSTRUCTED DURING THIS PHASE
- AREA TO BE CONSTRUCTED USING FLAGGERS IF NECESSARY

SUMMARY OF MAINTENANCE OF TRAFFIC QUANTITIES

PAY ITEMS (UNITS)	PHASE 1 STAGE 1	PHASE 1 STAGE 2	PHASE 2	PAY ITEM TOTALS
HMA FOR STRUCTURE INSTALLATION, TYPE C (TONS)	106	0	0	106
LINE, REMOVE (LFT)	0	570	0	570
TEMPORARY PAVEMENT MARKING, WHITE, 4" (LFT)	980	600	0	1580
TEMPORARY PAVEMENT MARKING, YELLOW, 4" (LFT)	200	600	0	800
TEMPORARY BARRICADE, III-B (LFT)	950	1000	500	1000
CONSTRUCTION SIGN, A (EACH)	14	23	20	33
CONSTRUCTION SIGN, B (EACH)	2	3	2	3
CONSTRUCTION SIGN, C (EACH)	4	4	4	4
ROAD CLOSURE SIGN ASSEMBLY (EACH)	9	11	7	11
DETOUR ROUTE MARKER ASSEMBLY (EACH)	18	26	18	26

MAINTENANCE OF TRAFFIC NOTES

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6. ADVANCE SIGNING TO BE IN PLACE AT BEGINNING AND END OF PROJECT BEFORE PRIOR TO ANY CONSTRUCTION ACTIVITY.

Stage 3 Plans

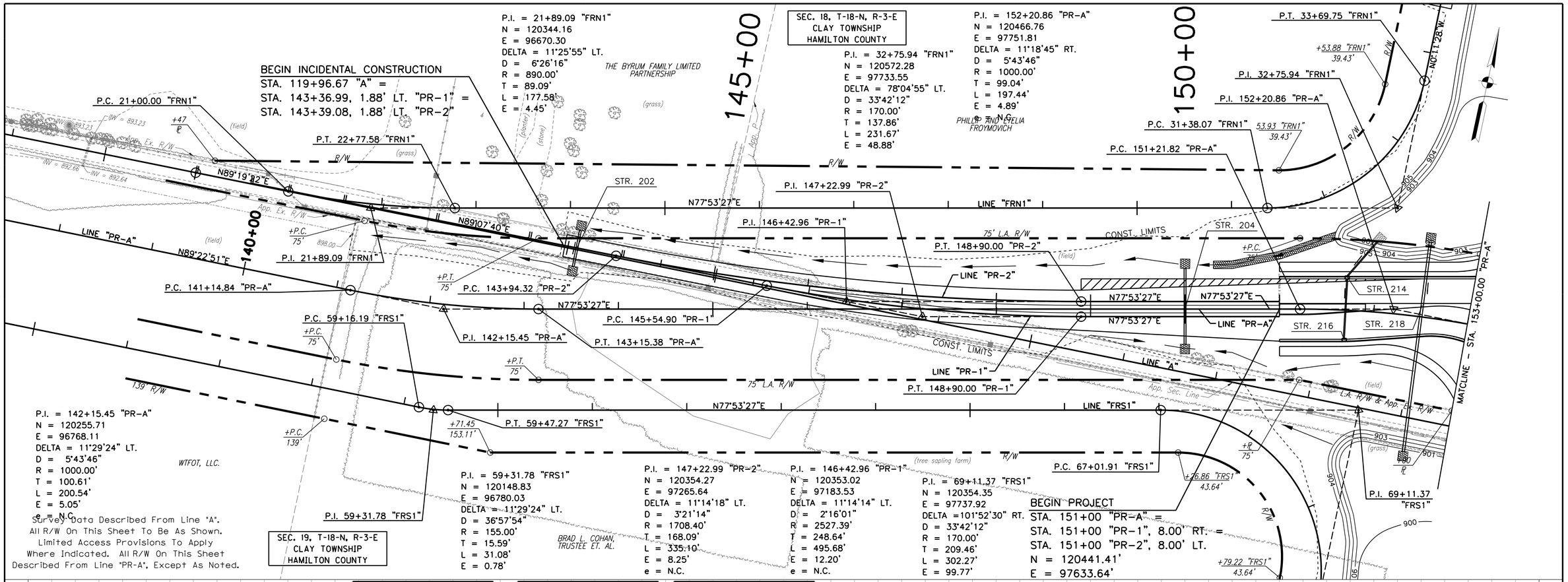
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: J.L.B. DRAWN: G.S.H.
CHECKED: D.W.C. CHECKED: J.L.B.

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE II

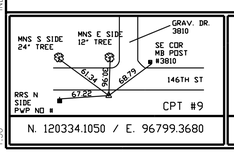
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
	1401702
SURVEY BOOK	SHEETS
	25 of 148
CONTRACT	PROJECT
R-38240	1401702



EARTHWORK SUMMARY

COMMON EXCAVATION	94,514	CYS
USEABLE CUT MATERIALS	63,324	CYS
FILL + = 15%	83,316	CYS
BORROW	19,992	CYS

33% OF THE CUT MATERIALS WAS ASSUMED TO BE UNUSABLE AS FILL



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE SHEET
STA. 138+00 TO STA. 153+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	26 of 148
CONTRACT	PROJECT
R-38240	1401702

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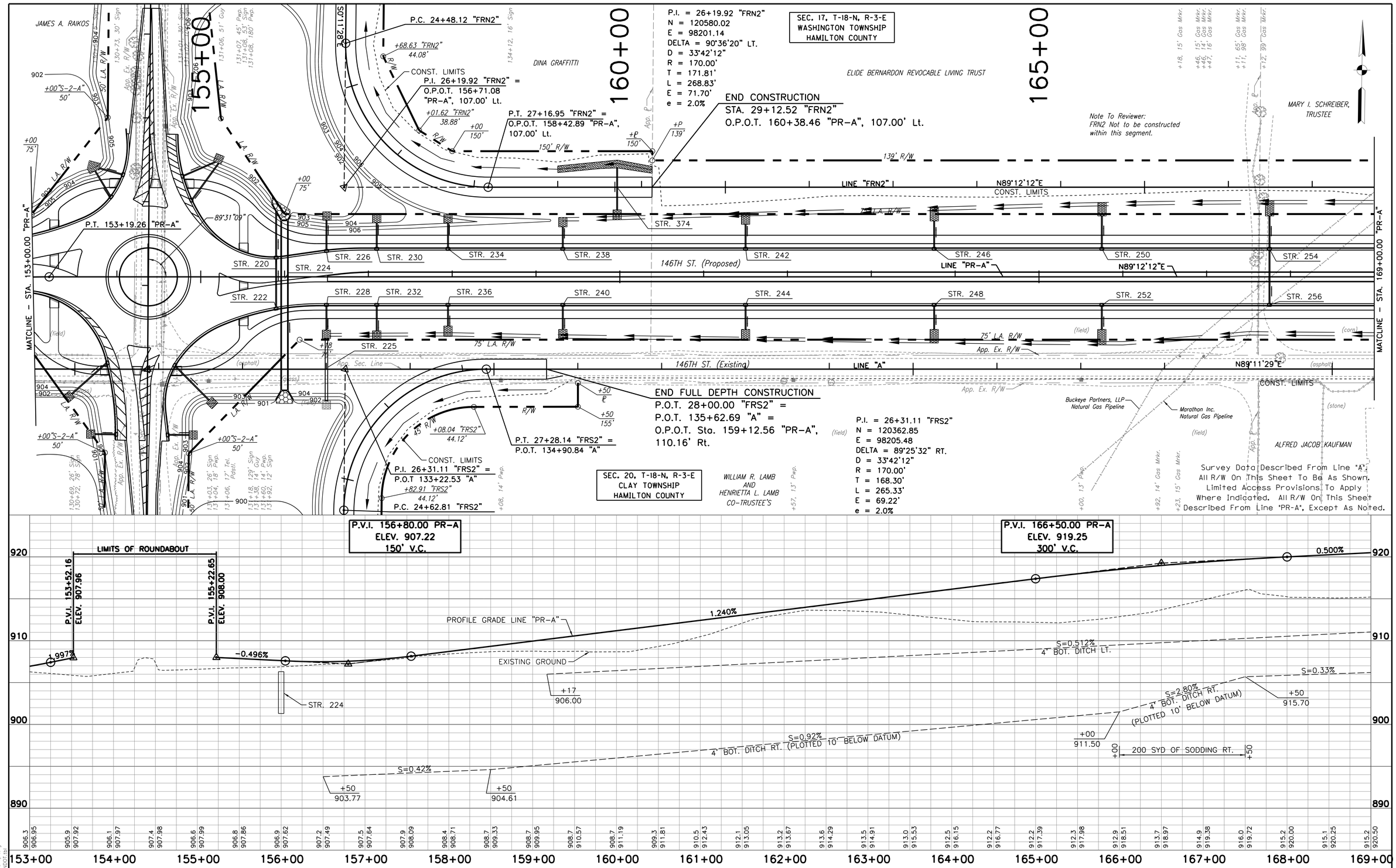

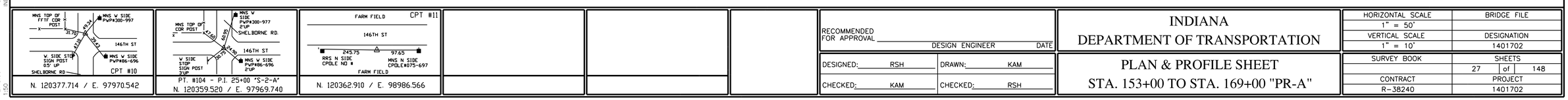

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION
DESIGNED: RSH DRAWN: KAM	PLAN & PROFILE SHEET
CHECKED: KAM CHECKED: RSH	STA. 153+00 TO STA. 169+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	27 of 148
CONTRACT	PROJECT
R-38240	1401702

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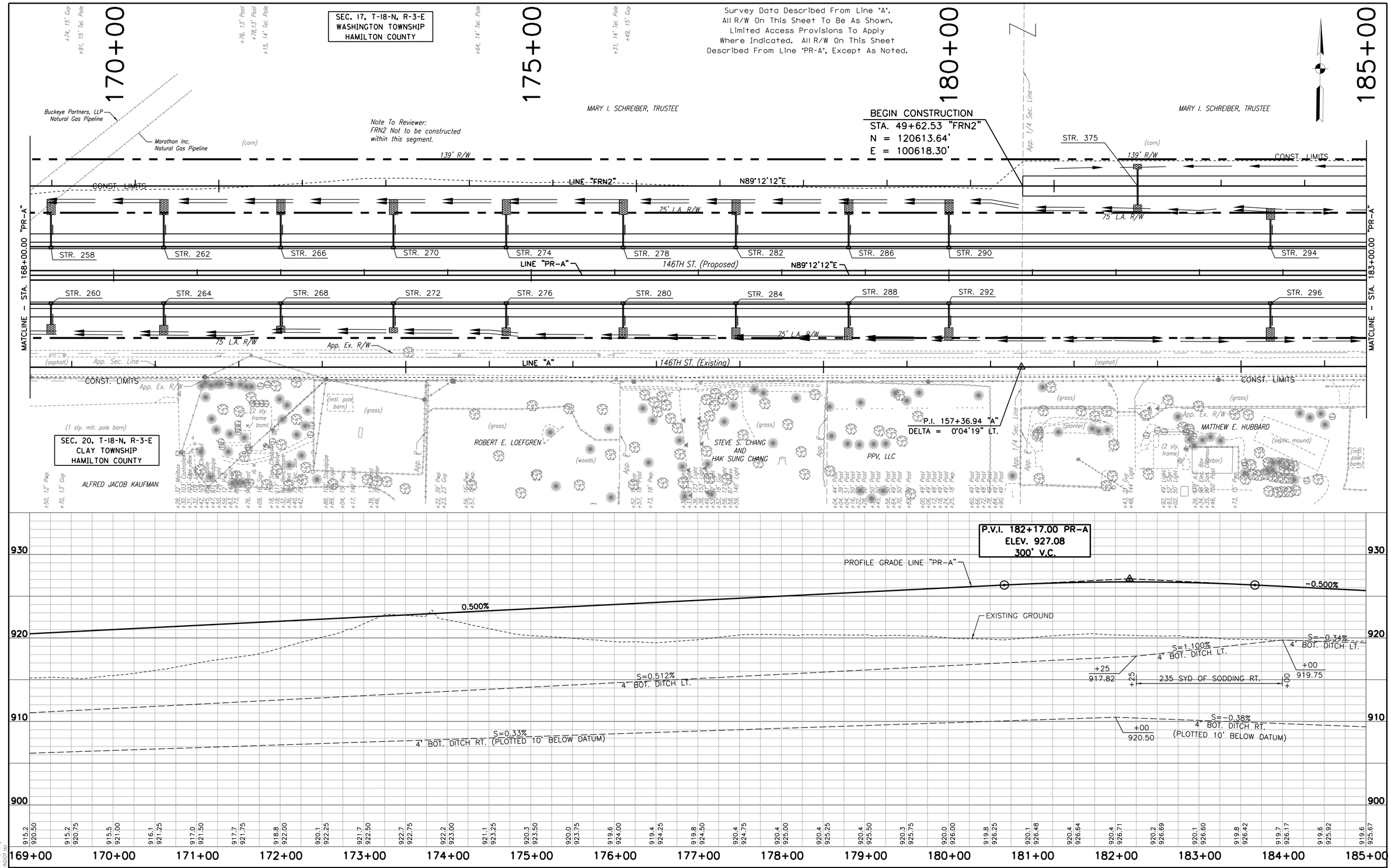

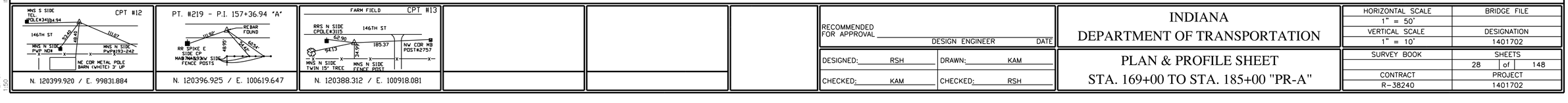

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE SHEET
STA. 169+00 TO STA. 185+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	28 of 148
CONTRACT	PROJECT
R-38240	1401702

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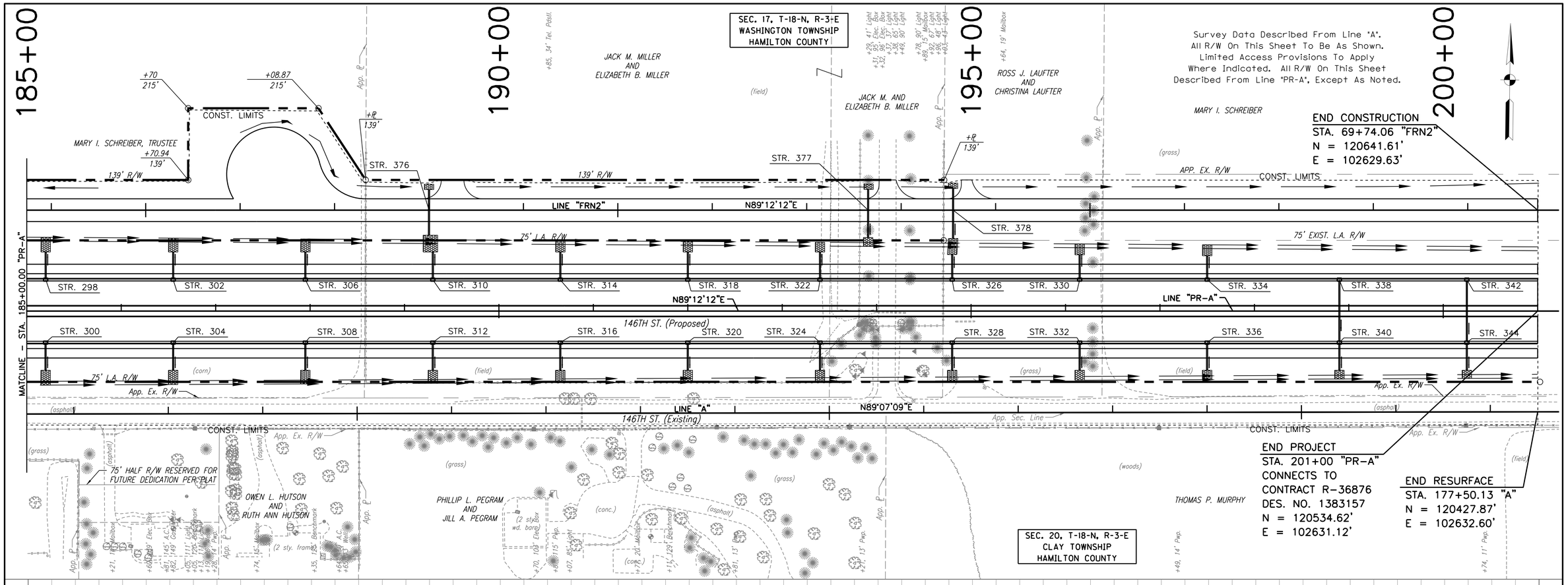

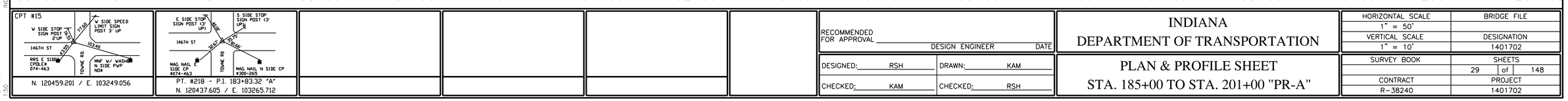

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE SHEET
STA. 185+00 TO STA. 201+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	29 of 148
CONTRACT	PROJECT
R-38240	1401702

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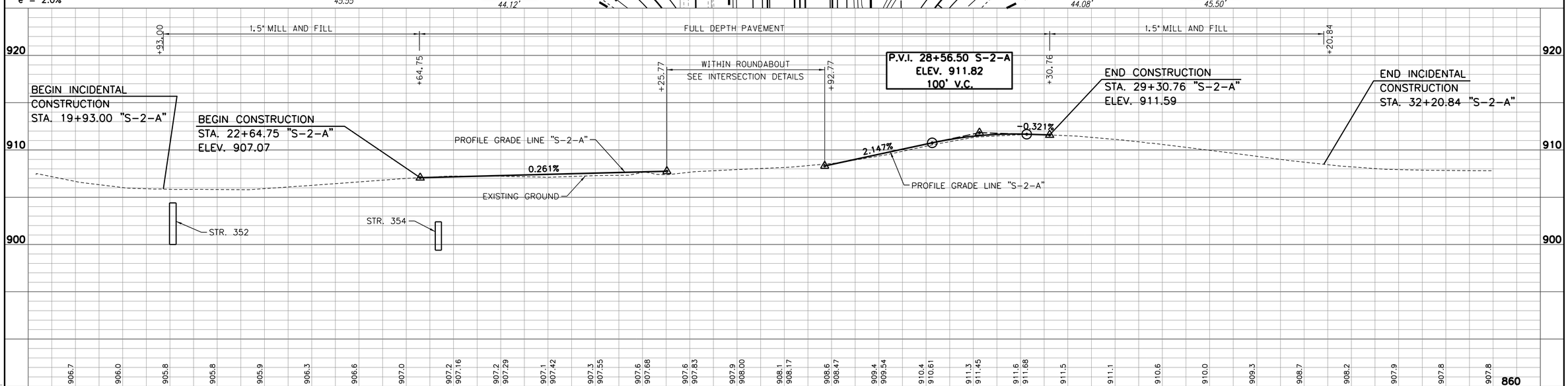
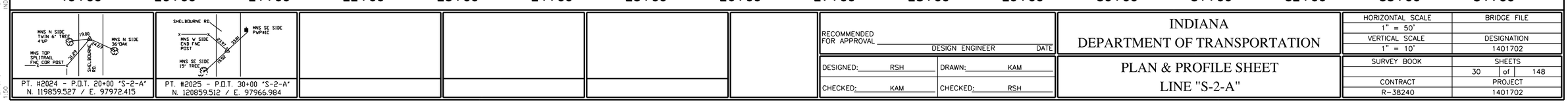
SEC. 19, T-18-N, R-3-E
CLAY TOWNSHIP
HAMILTON COUNTY

P.I. = 72+31.48
N = 119917.59
E = 97739.71
DELTA = 88°18'26" LT.
D = 33°42'12"
R = 170.00'
T = 165.05'
L = 262.01'
E = 66.94'
e = 2.0%

P.I. 72+31.48 "FRS1"
+77.92 "FRS1" 45.49'
+79.22 "FRS1" 43.64'
P.I. 69+11.37 "FRS1"
20+00
CONST. LIMITS
R/W
+00 "PR-A"
STR. 360
L.A. R/W & APP. EX. R/W
BRAD L. COHAN, TRUSTEE ET. AL.
P.I. 25+00.00 "S-2-A"
STR. 350
+16.94 "FRS1" 45.49'
+75 80'
+75 ℄
+75 50' E
STR. 356
+00 50'
50' L.A. R/W
88°14'06"
BEGIN INCIDENTAL CONSTRUCTION
STA. 19+93.00 "S-2-A"
LINE "S-2-A"
N0°18'23"W
+75 ℄
STR. 352
P.I. = 25+00.00 "S-2-A"
N = 120359.52
E = 97969.74
DELTA = 0°00'34" LT.
WILLIAM R. LAMB AND HENRIETTA L. LAMB CO-TRUSTEES
+88.90 "FRS2" 50.54'
BEGIN CONSTRUCTION
STA. 22+64.75 "S-2-A"
N = 120124.28'
E = 97971.00'
P.I. = 22+52.08
N = 119905.68
E = 98207.35
DELTA = 91°41'34" LT.
D = 33°42'12"
R = 170.00'
T = 175.10'
L = 272.06'
E = 74.05'
e = 2.0%
SEC. 20, T-18-N, R-3-E
CLAY TOWNSHIP
HAMILTON COUNTY
+09.76 "FRS2" 56.53'
P.I. 22+52.08 "FRS2"
+59.33 "FRS2" 50.66'
+36.85 "FRS2" 45.55'
+82.91 "FRS2" 44.12'
50' L.A. R/W
STR. 354
+75 50' E
+00 50'
STR. 358
L.A. R/W
STR. 362
P.I. 26+31.11 "FRS2" =
P.O.T 133+22.53 "A"
+18 "PR-A" 75'
75' L.A. R/W
+53.88 "FRN1" 39.43'
+29.90 "FRN1" 40.56'
P.I. 32+75.94 "FRN1"
STR. 346
P.I. 36+95.24 "FRN1"
P & M HOLDING PROPERTY GROUP, LLC.
SEC. 18, T-18-N, R-3-E
WASHINGTON TOWNSHIP
HAMILTON COUNTY
P.I. = 36+95.24
N = 121031.75
E = 97732.01
DELTA = 91°17'06" RT.
D = 36°57'54"
R = 155.00'
T = 158.52'
L = 246.95'
E = 66.70'
e = 2.0%
+00 "PR-A" 75'
STR. 364
BEGIN CONSTRUCTION
STA. 34+50.00 "FRN1"
N = 120790.40'
E = 97732.82'
PHILLIP AND ETELIA FROYMOVICH
STR. 368
+00 50'
30+00
STR. 348
+75.95 "FRN1" 40.56'
B +45 50'
END INCIDENTAL CONSTRUCTION
STA. 32+20.84 "S-2-A"
+50 ℄
90°28'51"
88°35'25"
N0°18'57"W
+50 ℄
END CONSTRUCTION
STA. 29+30.76 "S-2-A"
N = 120790.27'
E = 97967.37'
+00 85'
STR. 370
B +45 45'
STR. 372
P.I. = 22+46.36
N = 121022.82
E = 98199.67
DELTA = 88°42'54" RT.
D = 33°42'12"
R = 170.00'
T = 166.23'
L = 263.22'
E = 67.77'
e = 2.0%
STR. 366
DINA GRAFFITTI
P.I. 26+19.92 "FRN2"
+00 "PR-A" 75'
SEC. 17, T-18-N, R-3-E
WASHINGTON TOWNSHIP
HAMILTON COUNTY
+91.71 "FRN2" 45.50'
P.I. 22+46.36 "FRN2"
+68.63 "FRN2" 44.08'
+31.77 "FRN2" 45.50'

Survey Data Described From Line "S-2A". All R/W On This Sheet To Be As Shown. Limited Access Provisions To Apply Where Indicated. All R/W On This Sheet Described From Line "S-2-A", Except As Noted.





RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE SHEET
LINE "S-2-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	30 of 148
CONTRACT	PROJECT
R-38240	1401702

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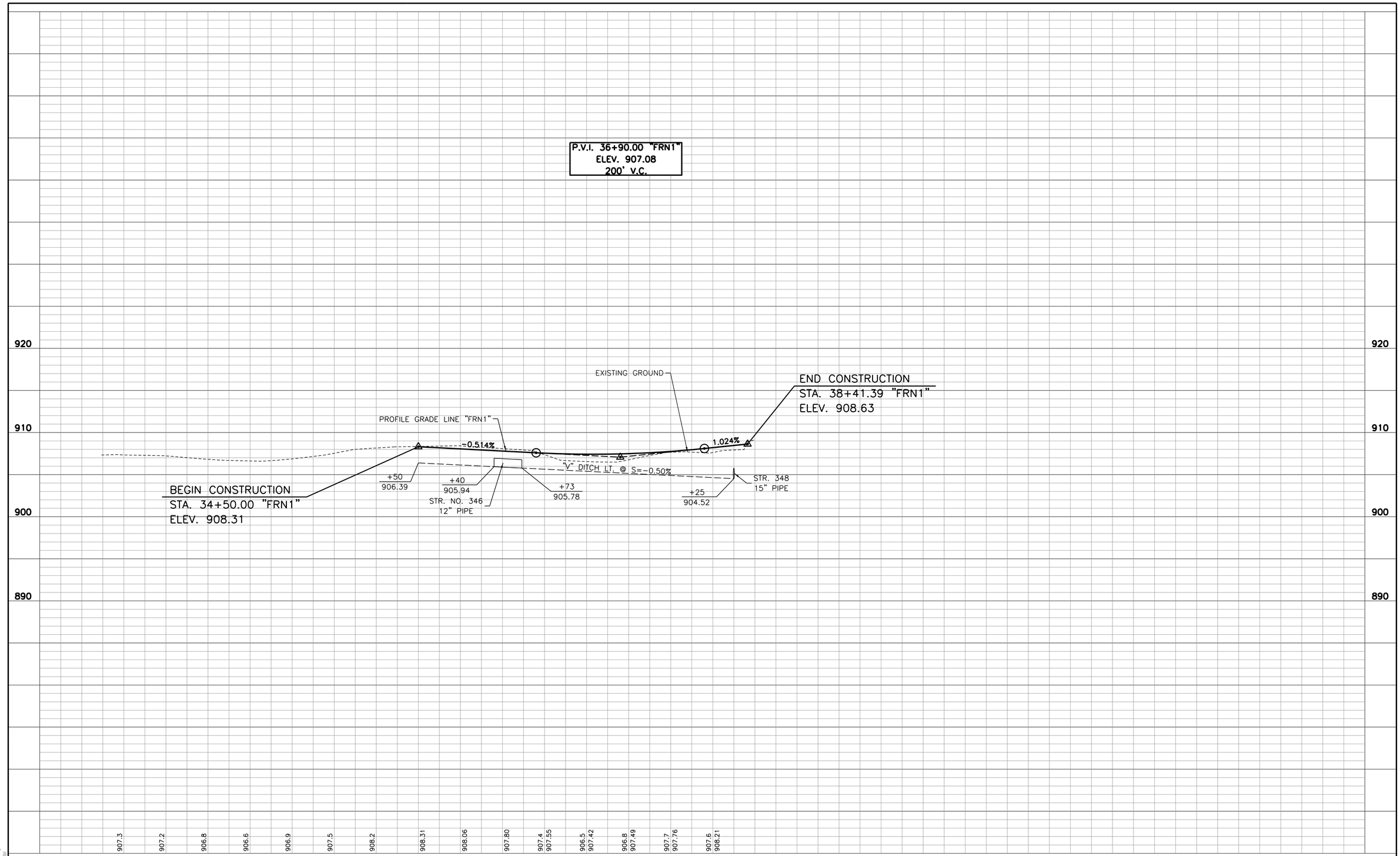

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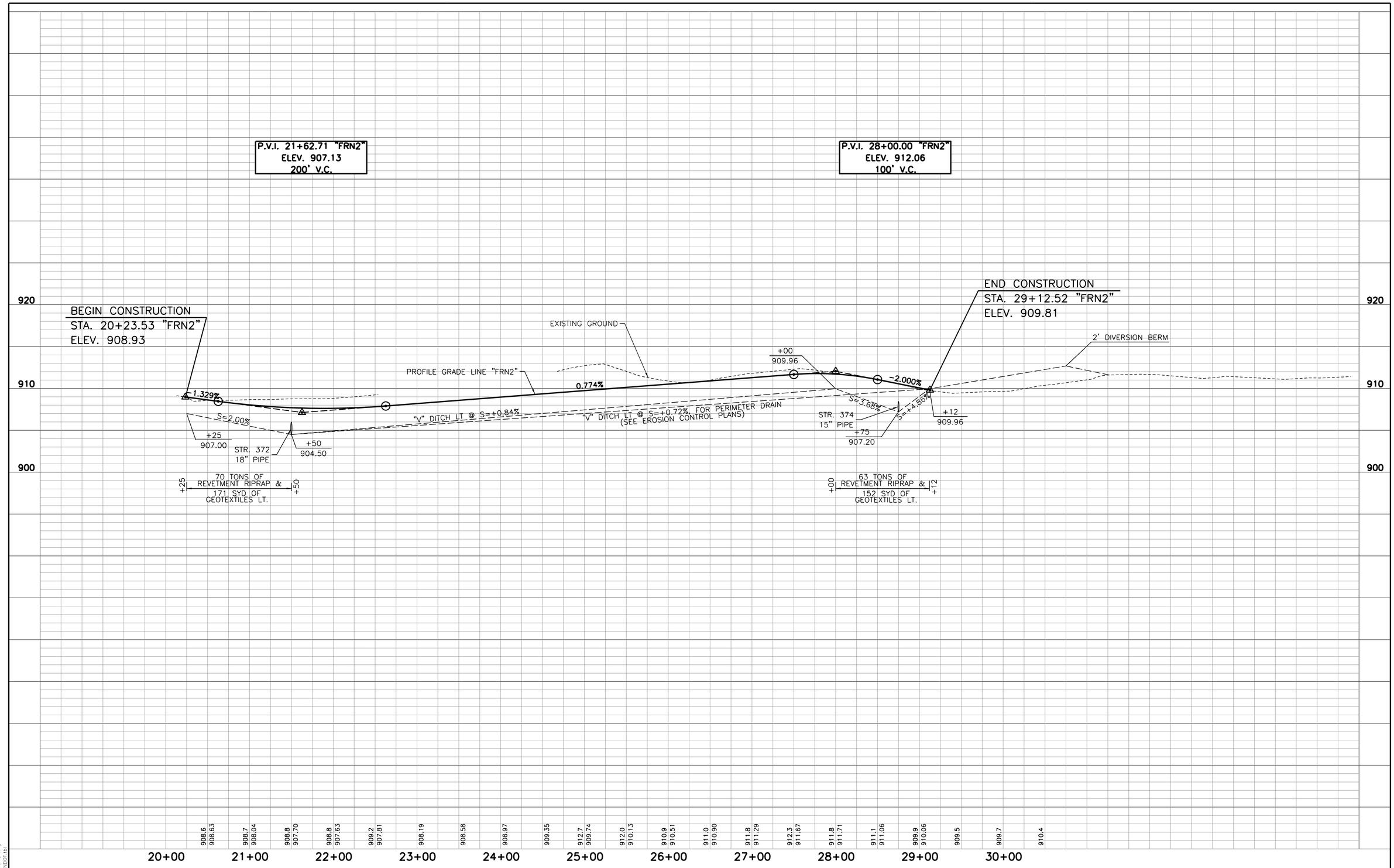
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
LINE "FRN1"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	31 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

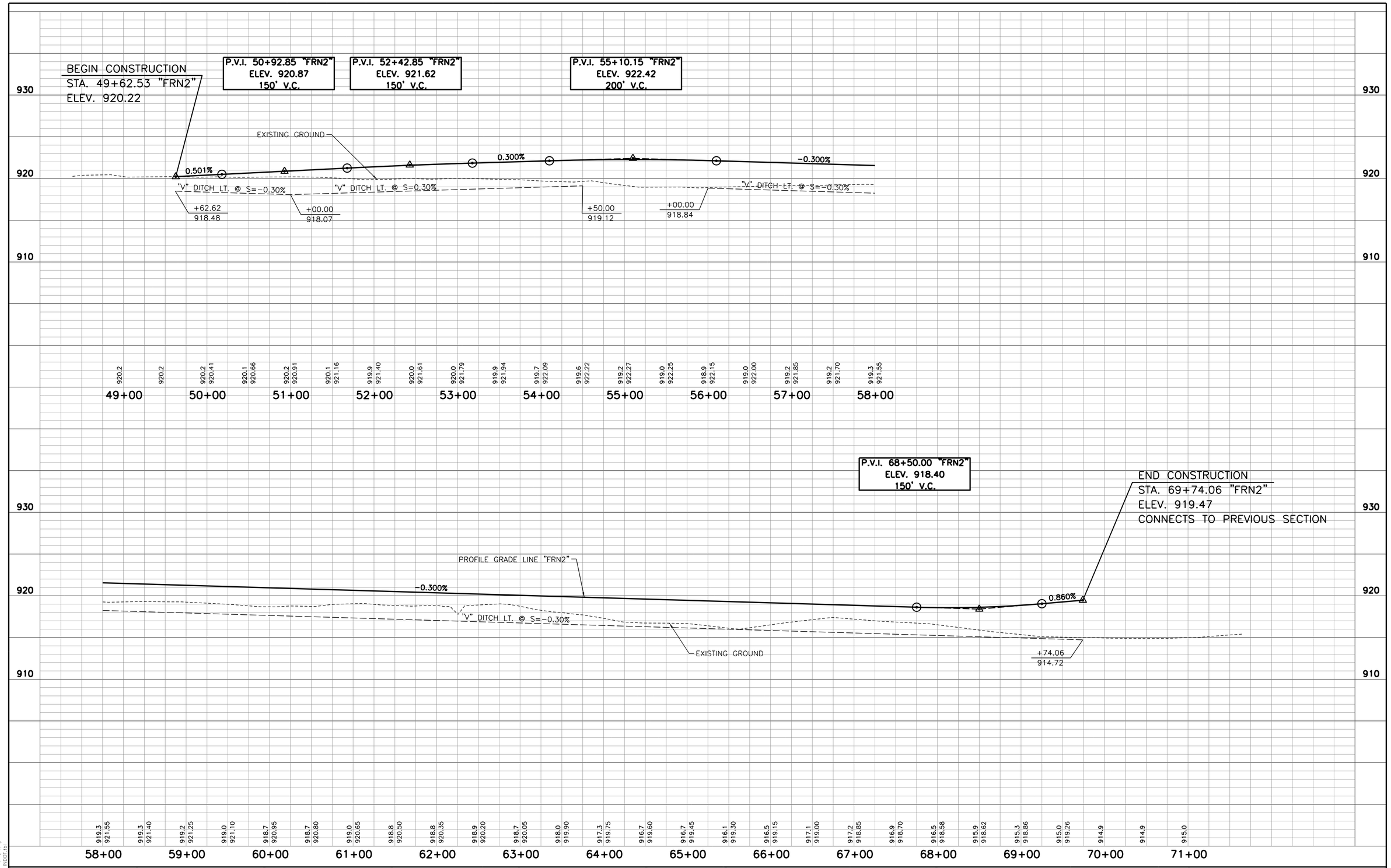
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
LINE "FRN2"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1401702
SURVEY BOOK	SHEETS 32 of 148
CONTRACT R-38240	PROJECT 1401702



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INDOT.tbl

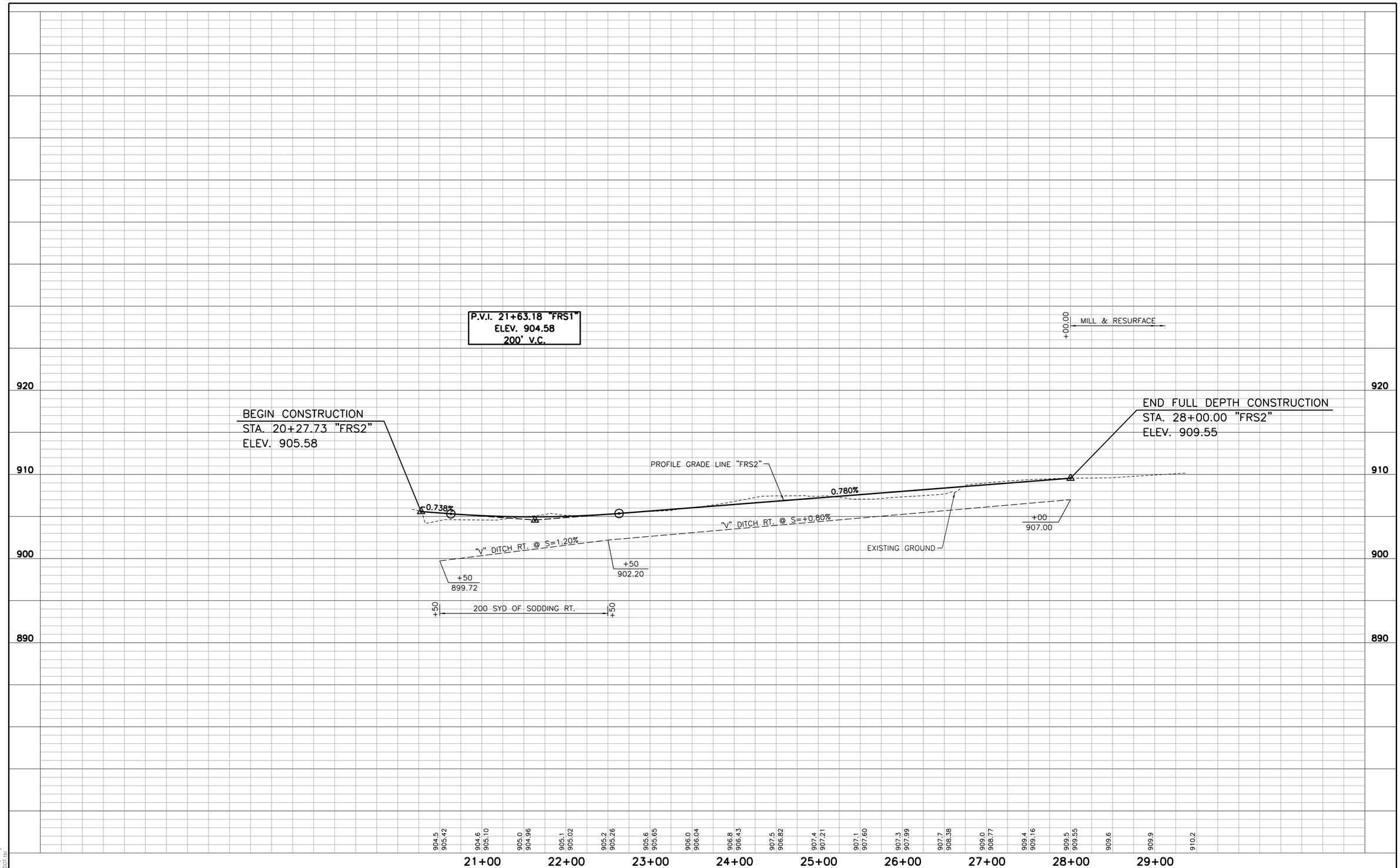
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
LINE "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	33 of 148
CONTRACT	PROJECT
R-38240	1401702



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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
LINE "FRS2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	34 of 148
CONTRACT	PROJECT
R-38240	1401702

P.I. = 21+89.09 "FRN1"
N = 120344.16
E = 96670.30
DELTA = 11°25'55" LT.
D = 6°26'16"
R = 890.00'
T = 89.09'
L = 177.58'
E = 4.45'

SEC. 18, T-18-N, R-3-E
CLAY TOWNSHIP
HAMILTON COUNTY

(202) 143+50 "PR-1", STR. NO. 202
39 LF OF 24" TYPE 1 PIPE
2 PIPE END SECTIONS REQ'D

145+00

INV = 893.23

INV = 892.64

P.C. 21+00.00 "FRN1"

P.T. 22+77.58 "FRN1"

P.I. 21+89.09 "FRN1"

6 TONS OF UNIFORM RIPRAP ON
16 SYS GEOTEXTILES REQ'D

R/W

N89°19'27"E
146TH ST. (EXISTING)

25+00

LINE "FRN1" N77°53'27"E

N89°07'40"E

(202)

75' L.A. R/W

898.00

CONST. LIMITS

12' 12'

(R1)

CONST. LIMITS

LINE "PR-2"

(K)

16'

BEGIN INCIDENTAL CONSTRUCTION
STA. 119+96.66 "A" =
STA. 143+36.99, 1.75' LT. "PR-1" =
STA. 143+39.08, 1.75' LT. "PR-2"

P.C. 143+94.32 "PR-2"

P.C. 145+54.90 "PR-1"

P.I. 146+42.96 "PR-1"

6 TONS OF UNIFORM RIPRAP ON
16 SYS GEOTEXTILES REQ'D

WETLAND

P.I. 147+22.99 "PR-2"

CONST. LIMITS

LINE "PR-1"

MATCLINE – STA. 148+00.00 "PR-A"

60+00

75' L.A. R/W

REMOVE EXIST. PAVEMENT

65+00

N77°53'27"E

LINE "FRS1"

P.C. 59+16.19 "FRS1"

P.I. 59+31.78 "FRS1"

P.T. 59+47.27 "FRS1"

R/W

P.I. = 147+22.99 "PR-2"
N = 120354.27
E = 97265.64
DELTA = 11°14'18" LT.
D = 3°21'14"
R = 1708.40'
T = 168.09'
L = 335.10'
E = 8.25'

P.I. = 146+42.96 "PR-1"
N = 120353.02
E = 97183.53
DELTA = 11°14'14" LT.
D = 2°16'01"
R = 2527.39'
T = 248.64'
L = 495.68'
E = 12.20'

P.I. = 59+31.78 "FRS1"
N = 120148.83
E = 96780.03
DELTA = 11°29'24" LT.
D = 36°57'54"
R = 155.00'
T = 15.59'
L = 31.08'
E = 0.78'

SEC. 19, T-18-N, R-3-E
CLAY TOWNSHIP
HAMILTON COUNTY

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(D2) DRIVEWAY, CLASS II
(F) MULTI-USE PATH
(K) FULL DEPTH PAVEMENT
(K1) TRANSITION ROAD PAVEMENT
(L) FRONTAGE ROAD PAVEMENT
(R) RESURFACE (SHELBORNE RD)
(S1) HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)
(S2) HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)
(R1) RESURFACE (146TH ST.)
(TA) TRUCK APRON
(U) UNDERDRAIN, 6 IN.
(O) COMP. AGG. BASE, NO. 53
(26) SODDING, NURSERY
(13) INTEGRAL CURB, CONCRETE
(14) COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
(15) COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
(16) CURB, CONCRETE
(22) CENTER CURB, C

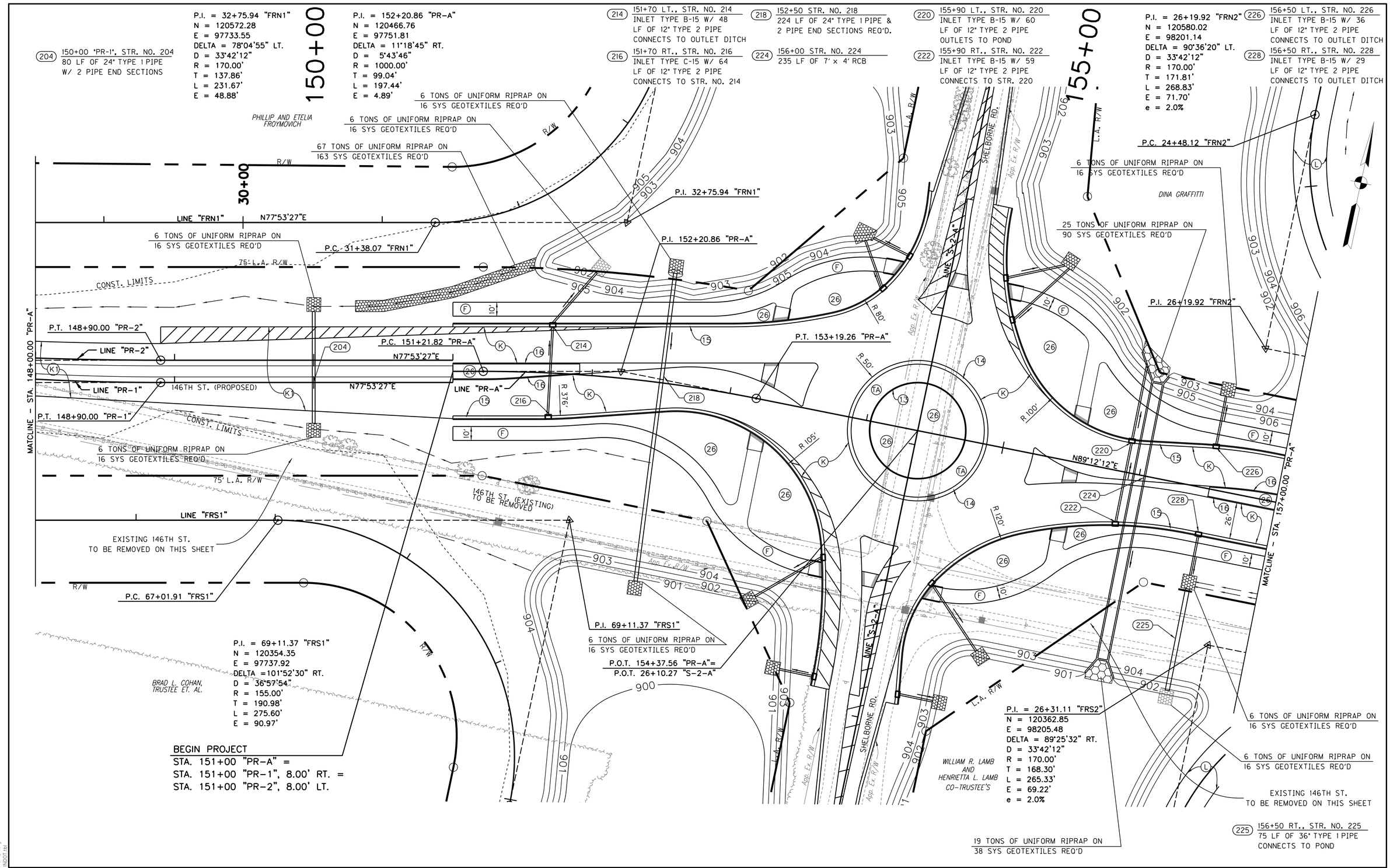
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SHEET
STA. 139+00 TO STA. 148+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	35 of 148
CONTRACT	PROJECT
R-38240	1401702



D2 DRIVEWAY, CLASS II	R RESURFACE (SHELBORNE RD)	R1 RESURFACE (146TH ST.)	13 INTEGRAL CURB, CONCRETE
F MULTI-USE PATH	S1 HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)	TA TRUCK APRON	14 COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
K FULL DEPTH PAVEMENT	S2 HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)	U UNDERDRAIN, 6 IN.	15 COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
K1 TRANSITION ROAD PAVEMENT		O COMP. AGG. BASE, NO. 53	16 CURB, CONCRETE
L FRONTAGE ROAD PAVEMENT		26 SODDING, NURSERY	22 CENTER CURB, C

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SHEET
STA. 148+00 TO STA. 157+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	36 of 148
CONTRACT	PROJECT
R-38240	1401702

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(230) 157+10 LT., STR. NO. 230
INLET TYPE B-15 W/ 30
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(232) 157+10 RT., STR. NO. 232
INLET TYPE B-15 W/ 30
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(234) 157+95 LT., STR. NO. 234
INLET TYPE B-15 W/ 30
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(236) 157+95 RT., STR. NO. 236
INLET TYPE B-15 W/ 24
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(238) 159+30 LT., STR. NO. 238
INLET TYPE B-15 W/ 25
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(240) 159+30 RT., STR. NO. 240
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(374) 28+75 "FRN-2" STR. NO. 374
50 LF OF 15" TYPE 2 PIPE
W/ 2 PIPE END SECTIONS
CONNECTS TO OUTLET DITCH

(242) 161+50 LT., STR. NO. 242
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

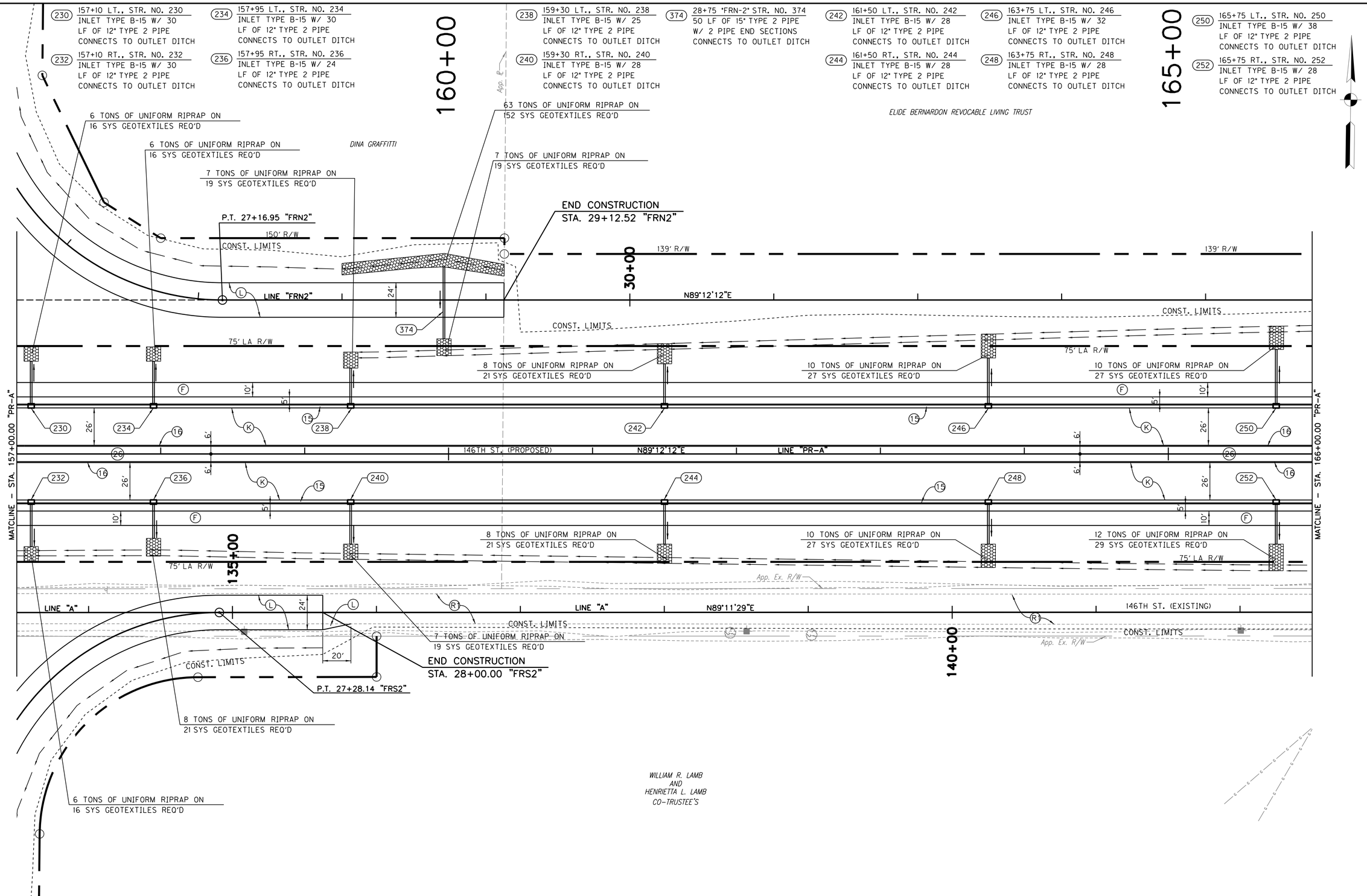
(244) 161+50 RT., STR. NO. 244
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(246) 163+75 LT., STR. NO. 246
INLET TYPE B-15 W/ 32
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(248) 163+75 RT., STR. NO. 248
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(250) 165+75 LT., STR. NO. 250
INLET TYPE B-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(252) 165+75 RT., STR. NO. 252
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH



(D2) DRIVEWAY, CLASS II	(R) RESURFACE (SHELBORNE RD)	(R1) RESURFACE (146TH ST.)	(13) INTEGRAL CURB, CONCRETE
(F) MULTI-USE PATH	(S1) HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)	(TA) TRUCK APRON	(14) COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
(K) FULL DEPTH PAVEMENT	(S2) HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)	(U) UNDERDRAIN, 6 IN.	(15) COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
(K1) TRANSITION ROAD PAVEMENT		(O) COMP. AGG. BASE, NO. 53	(16) CURB, CONCRETE
(L) FRONTAGE ROAD PAVEMENT		(26) SODDING, NURSERY	(22) CENTER CURB, C

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SHEET
STA. 157+00 TO STA. 166+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	37 of 148
CONTRACT	PROJECT
R-38240	1401702

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(254) 167+75 LT., STR. NO. 254
INLET TYPE C-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(256) 167+75 RT., STR. NO. 256
INLET TYPE B-15 W/ 64
LF OF 12" TYPE 2 PIPE
CONNECTS TO STR. 254

(258) 169+25 LT., STR. NO. 258
INLET TYPE B-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(260) 169+25 RT., STR. NO. 260
INLET TYPE B-15 W/ 24
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(262) 170+60 LT., STR. NO. 262
INLET TYPE B-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(264) 170+60 RT., STR. NO. 264
INLET TYPE B-15 W/ 25
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(266) 172+00 LT., STR. NO. 266
INLET TYPE B-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

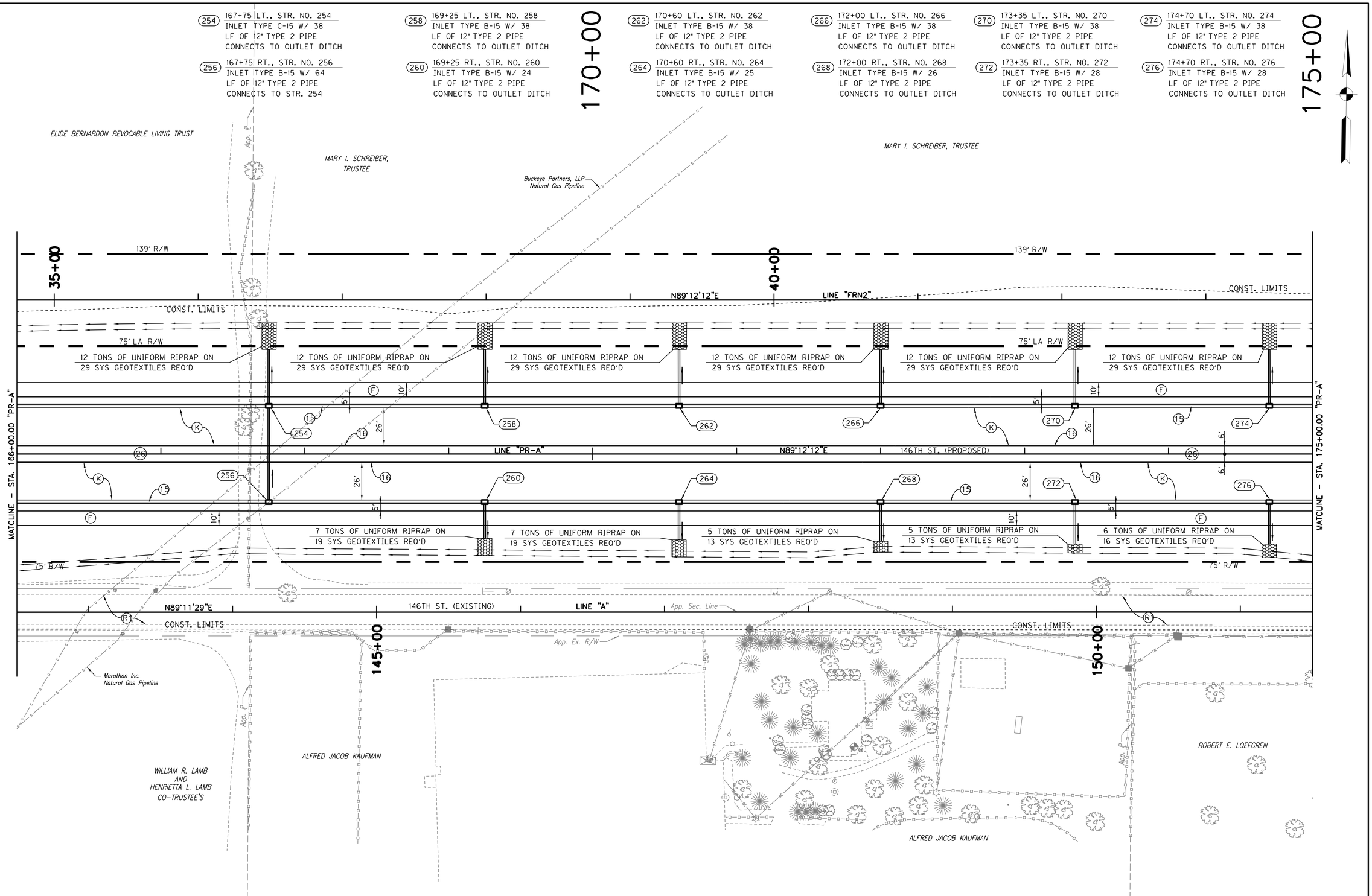
(268) 172+00 RT., STR. NO. 268
INLET TYPE B-15 W/ 26
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(270) 173+35 LT., STR. NO. 270
INLET TYPE B-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(272) 173+35 RT., STR. NO. 272
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(274) 174+70 LT., STR. NO. 274
INLET TYPE B-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(276) 174+70 RT., STR. NO. 276
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH



(D2) DRIVEWAY, CLASS II	(R) RESURFACE (SHELBORNE RD)	(R1) RESURFACE (146TH ST.)	(13) INTEGRAL CURB, CONCRETE
(F) MULTI-USE PATH	(S1) HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)	(TA) TRUCK APRON	(14) COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
(K) FULL DEPTH PAVEMENT		(U) UNDERDRAIN, 6 IN.	(15) COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
(K1) TRANSITION ROAD PAVEMENT	(S2) HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)	(O) COMP. AGG. BASE, NO. 53	(16) CURB, CONCRETE
(L) FRONTAGE ROAD PAVEMENT		(26) SODDING, NURSERY	(22) CENTER CURB, C

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH	DRAWN: KAM
CHECKED: KAM	CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SHEET
STA. 166+00 TO STA. 175+00 "PR-A"

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1401702
SURVEY BOOK	SHEETS 38 of 148
CONTRACT R-38240	PROJECT 1401702

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175+00

(278) 176+10 LT., STR. NO. 278
INLET TYPE B-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(280) 176+10 RT., STR. NO. 280
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(282) 177+45 LT., STR. NO. 282
INLET TYPE B-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(284) 177+45 RT., STR. NO. 284
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(286) 178+80 LT., STR. NO. 286
INLET TYPE B-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(288) 178+80 RT., STR. NO. 288
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(290) 180+00 LT., STR. NO. 290
INLET TYPE B-15 W/ 38
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

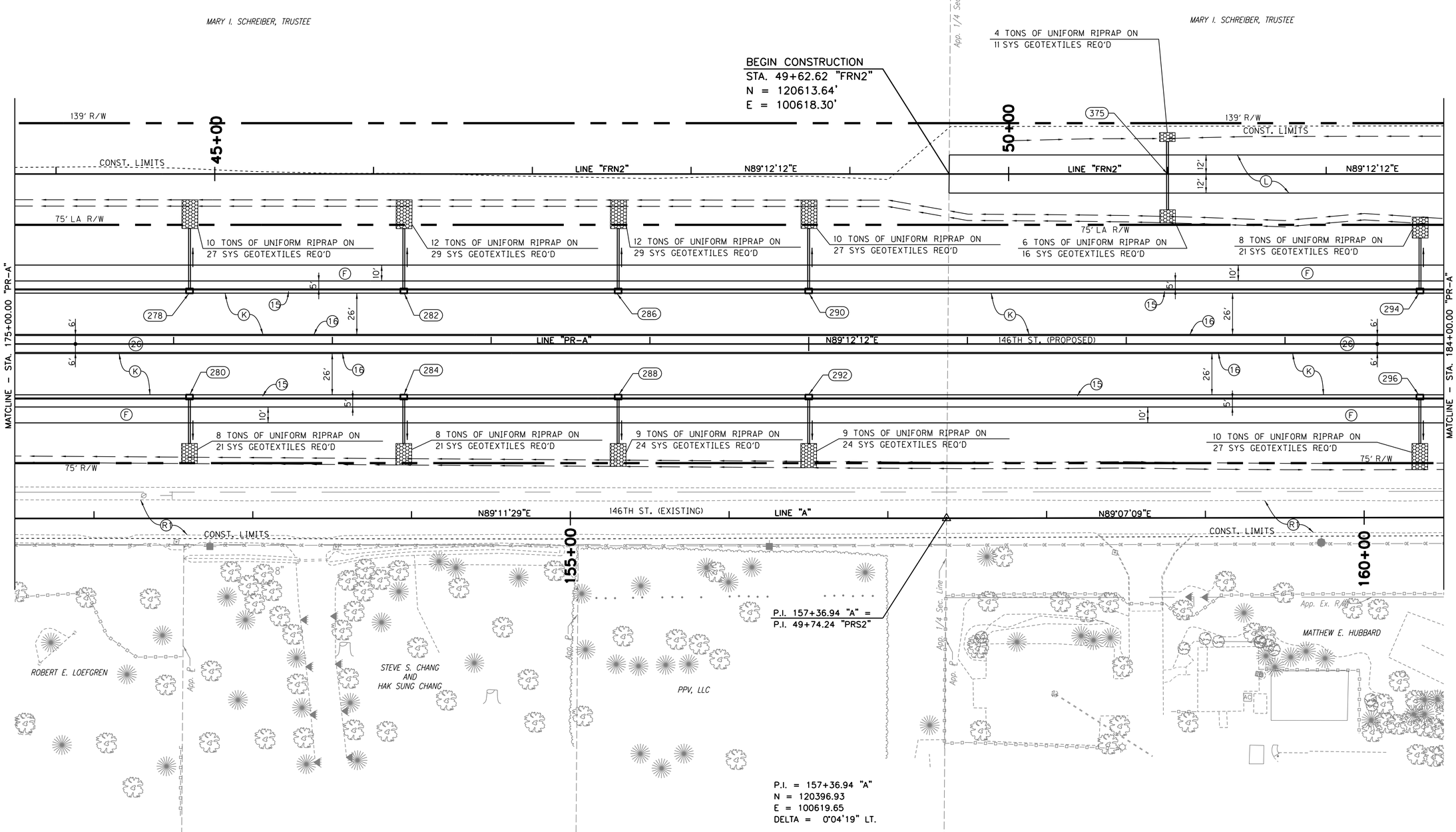
(292) 180+00 RT., STR. NO. 292
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

180+00

(375) 51+00 "FRN2", STR. NO. 375
43 LF OF 12" TYPE 1 PIPE
2 PIPE END SECTIONS REQ'D

(294) 183+85 LT., STR. NO. 294
INLET TYPE B-15 W/ 32
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(296) 183+85 RT., STR. NO. 296
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH



(D2) DRIVEWAY, CLASS II	(R) RESURFACE (SHELBORNE RD)	(R1) RESURFACE (146TH ST.)	(13) INTEGRAL CURB, CONCRETE
(F) MULTI-USE PATH	(S1) HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)	(TA) TRUCK APRON	(14) COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
(K) FULL DEPTH PAVEMENT	(S2) HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)	(U) UNDERDRAIN, 6 IN.	(15) COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
(K1) TRANSITION ROAD PAVEMENT		(O) COMP. AGG. BASE, NO. 53	(16) CURB, CONCRETE
(L) FRONTAGE ROAD PAVEMENT		(26) SODDING, NURSERY	(22) CENTER CURB, C

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SHEET
STA. 175+00 TO STA. 184+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	39 of 148
CONTRACT	PROJECT
R-38240	1401702

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(298) 182+50 LT., STR. NO. 298
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(300) 182+50 RT., STR. NO. 300
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

185+00

(302) 186+55 LT., STR. NO. 302
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(304) 186+55 RT., STR. NO. 304
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(306) 187+95 LT., STR. NO. 306
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(308) 187+95 RT., STR. NO. 308
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(310) 189+30 LT., STR. NO. 310
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(312) 189+30 RT., STR. NO. 312
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

190+00

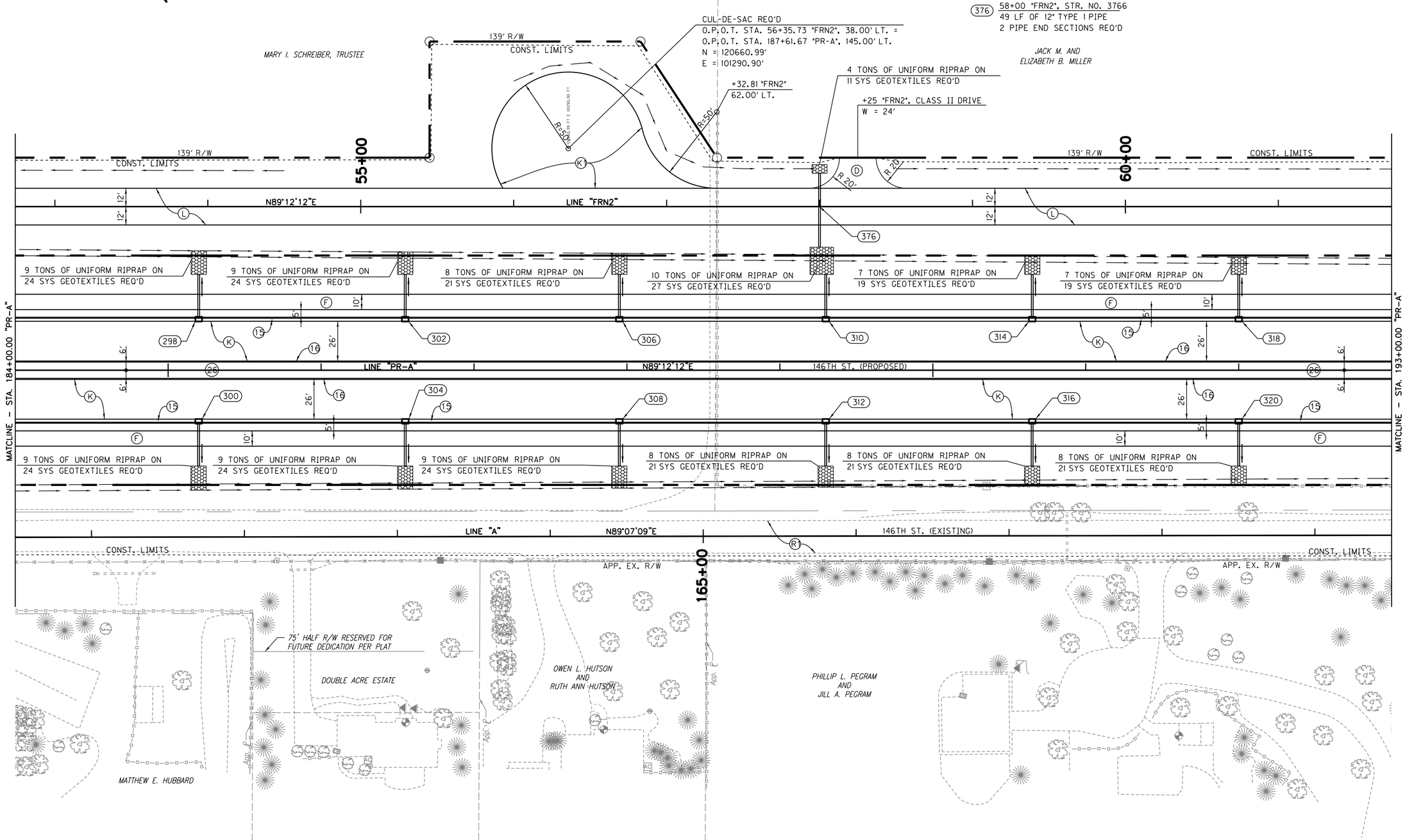
(314) 190+65 LT., STR. NO. 314
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(316) 190+65 RT., STR. NO. 316
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(318) 192+00 LT., STR. NO. 318
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(320) 192+00 RT., STR. NO. 320
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(376) 58+00 "FRN2", STR. NO. 3766
49 LF OF 12" TYPE 1 PIPE
2 PIPE END SECTIONS REQ'D



(D2) DRIVEWAY, CLASS II
(F) MULTI-USE PATH
(K) FULL DEPTH PAVEMENT
(K1) TRANSITION ROAD PAVEMENT
(L) FRONTAGE ROAD PAVEMENT
(R) RESURFACE (SHELBORNE RD)
(S1) HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)
(S2) HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)
(R1) RESURFACE (146TH ST.)
(TA) TRUCK APRON
(U) UNDERDRAIN, 6 IN.
(O) COMP. AGG. BASE, NO. 53
(26) SODDING, NURSERY
(13) INTEGRAL CURB, CONCRETE
(14) COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
(15) COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
(16) CURB, CONCRETE
(22) CENTER CURB, C

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SHEET
STA. 184+00 TO STA. 193+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	40 of 148
CONTRACT	PROJECT
R-38240	1401702

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(322) 193+40 LT., STR. NO. 322
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(324) 193+40 RT., STR. NO. 324
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(377) 62+65, "FRN2" STR. NO. 377
51 LF OF 12" TYPE 1 PIPE
2 PIPE ENDS SECTIONS REQ'D

(378) 63+55, "FRN2" STR. NO. 378
53 LF OF 12" TYPE 1 PIPE
2 PIPE ENDS SECTIONS REQ'D

195+00

(326) 194+80 LT., STR. NO. 326
INLET TYPE B-15 W/ 26
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLETS DITCH

(328) 194+80 RT., STR. NO. 328
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(330) 196+15 LT., STR. NO. 330
INLET TYPE B-15 W/ 25
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(332) 196+15 RT., STR. NO. 332
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(334) 197+50 LT., STR. NO. 334
INELT TYPE B-15 W/ 24
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(336) 197+50 RT., STR. NO. 336
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(338) 198+90 LT., STR. NO. 338
INLET TYPE B-15 W/ 64
LF OF 12" TYPE 2 PIPE
CONNECTS TO STR. 340

(340) 198+90 RT., STR. NO. 340
INLET TYPE C-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

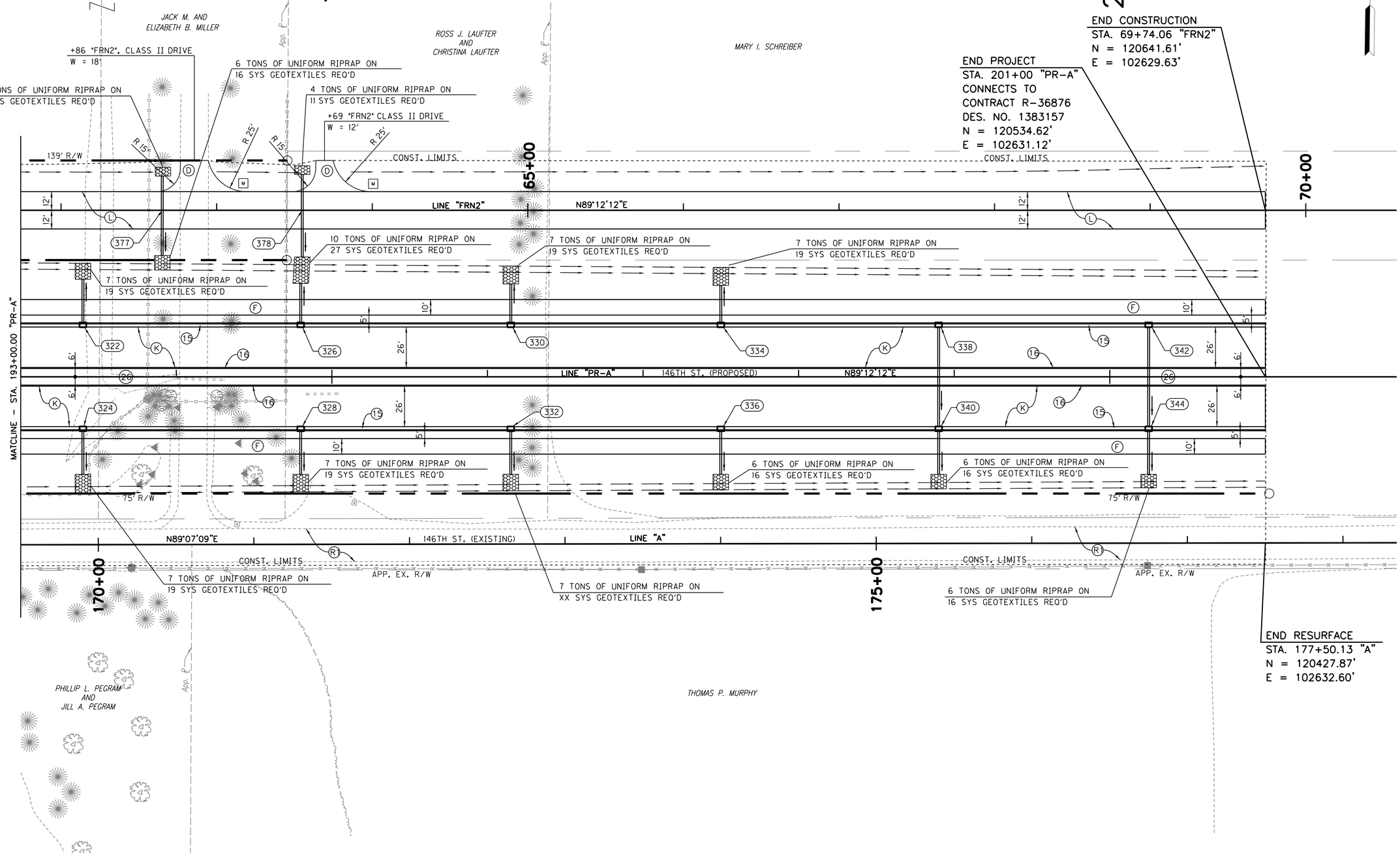
200+00

(342) 200+25 LT., STR. NO. 342
INLET TYPE B-15 W/ 64 LF
OF 12" TYPE 2 PIPE REQ'D
CONNECTS TO STR. 344

(344) 200+25 RT., STR. NO. 344
INLET TYPE C-15 W/ 28 LF
OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

END CONSTRUCTION
STA. 69+74.06 "FRN2"
N = 120641.61'
E = 102629.63'

END PROJECT
STA. 201+00 "PR-A"
CONNECTS TO
CONTRACT R-36876
DES. NO. 1383157
N = 120534.62'
E = 102631.12'



END RESURFACE
STA. 177+50.13 "A"
N = 120427.87'
E = 102632.60'

(D2) DRIVEWAY, CLASS II	(R) RESURFACE (SHELBORNE RD)	(R1) RESURFACE (146TH ST.)	(13) INTEGRAL CURB, CONCRETE
(F) MULTI-USE PATH	(S1) HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)	(TA) TRUCK APRON	(14) COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
(K) FULL DEPTH PAVEMENT	(S2) HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)	(U) UNDERDRAIN, 6 IN.	(15) COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
(K1) TRANSITION ROAD PAVEMENT		(O) COMP. AGG. BASE, NO. 53	(16) CURB, CONCRETE
(L) FRONTAGE ROAD PAVEMENT		(26) SODDING, NURSERY	(22) CENTER CURB, C

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SHEET
STA. 193+00 TO STA. 202+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	41 of 148
CONTRACT	PROJECT
R-38240	1401702

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PDF.pltcfg
INDOT.tbl

P.I. = 72+31.48 "FRS1"
N = 119917.59
E = 97739.71
DELTA = 88°18'26" LT.
D = 33°42'12"
R = 170.00'
T = 165.05'
L = 262.01'
E = 66.94'
e = 2.0%

P.I. = 130+86.77 "A"
N = 120359.52
E = 97969.74
DELTA = 0°07'54" LT.

P.I. = 25+00.00 "S-2-A"
N = 120359.52
E = 97969.74
DELTA = 0°00'34" LT.

20+00

P.I. 72+31.48 "FRS1"

P.C. 70+66.43 "FRS1"

P.T. 70+04.18 "FRS1"

70+00

CONST. LIMITS

S0°14'03"E

LINE "FRS1"

+55 "S-2-A" CLASS II DRIVE
W = 24'

P.I. 69+11.37 "FRS1"

25+00

146TH ST. (EXISTING)

LINE "A"

130+00

6 TONS OF REVETMENT RIPRAP ON
16 SYS GEOTEXTILES REQ'D

BRAD L. COHAN,
TRUSTEE ET. AL.

17 TONS OF REVETMENT RIPRAP ON
49 SYS GEOTEXTILES REQ'D

BEGIN CONSTRUCTION
STA. 22+64.75 "S-2-A"
N = 120124.28'
E = 97971.00'

P.T. 73+28.44 "FRS1"

BEGIN INCIDENTAL
CONSTRUCTION
STA. 19+93.00 "S-2-A"

App. Ex. R/W

App. Sec. Line

SHELBORNE RD.

N0°18'23"W

LINE "S-2-A"

50' L.A. R/W

P.O.T. 20+52.15 "S-2-A" =
P.O.T. 73+95.89 "FRS1" =
P.O.T. 20+16.79 "FRS2"

BEGIN CONSTRUCTION
STA. 20+27.73 "FRS2"

P.C. 20+76.98 "FRS2"

S88°32'29"E

22 TONS OF REVETMENT RIPRAP ON
56 SYS GEOTEXTILES REQ'D

P.I. 130+86.77 "A" =
P.I. 25+00.00 "S-2-A"

WILLIAM R. LAMB
AND HENRIETTA L. LAMB
CO-TRUSTEES

P.I. = 22+52.08 "FRS2"
N = 119905.68
E = 98207.35
DELTA = 91°41'34" LT.
D = 33°42'12"
R = 170.00'
T = 175.10'
L = 272.06'
E = 74.05'
e = 2.0%

P.I. = 26+31.11 "FRS2"
N = 120362.85
E = 98205.48
DELTA = 89°25'32" RT.
D = 33°42'12"
R = 170.00'
T = 168.30'
L = 265.33'
E = 69.22'
e = 2.0%

P.I. 26+31.11 "FRS2"

P.I. 22+52.08 "FRS2"

N0°14'03"W

LINE "FRS2"

CONST. LIMITS

P.C. 24+62.81 "FRS2"

P.T. 23+49.04 "FRS2"

MATCHLINE – STA. 26+00.00 "S-2-A"

352 20+03 STR. NO. 352
64' OF 48" TYPE I PIPE REQ'D

350 73+33 "FRS1" STR. NO. 350
84' OF 48" TYPE I PIPE REQ'D

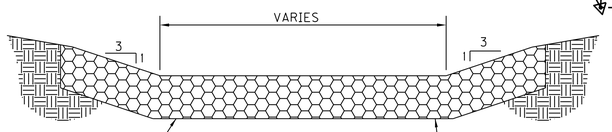
354 22+84 STR. NO. 354
102' OF 7'-0" x 4'-0" RCB REQ'D

356 24+22 LT., STR. NO. 356
INLET TYPE B-15 W/ 25 LF
OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

358 24+22 RT., STR. NO. 358
INLET TYPE B-15 W/ 24
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

360 25+07 LT., STR. NO. 360
INLET TYPE B-15 W/ 56
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

362 25+07 RT., STR. NO. 362
INLET TYPE B-15 W/ 57 LF
OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH



TYPICAL EMERGENCY SPILLWAY
DRY DETENTION AREA
NO SCALE

D2	DRIVEWAY, CLASS II	R	RESURFACE (SHELBORNE RD)
F	MULTI-USE PATH	S1	HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)
K	FULL DEPTH PAVEMENT	S2	HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)
K1	TRANSITION ROAD PAVEMENT		
L	FRONTAGE ROAD PAVEMENT		

R1	RESURFACE (146TH ST.)
TA	TRUCK APRON
U	UNDERDRAIN, 6 IN.
O	COMP. AGG. BASE, NO. 53
26	SODDING, NURSERY

13	INTEGRAL CURB, CONCRETE
14	COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
15	COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
16	CURB, CONCRETE
22	CENTER CURB, C

RECOMMENDED
FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SHEET
STA. 19+93.00 TO STA. 26+00.00 "S-2-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	42 of 148
CONTRACT	PROJECT
R-38240	1401702

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(364) 27+00 LT., STR. NO. 364
INLET TYPE B-15 W/ 36
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(366) 27+00 RT., STR. NO. 366
INLET TYPE B-15 W/ 54
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

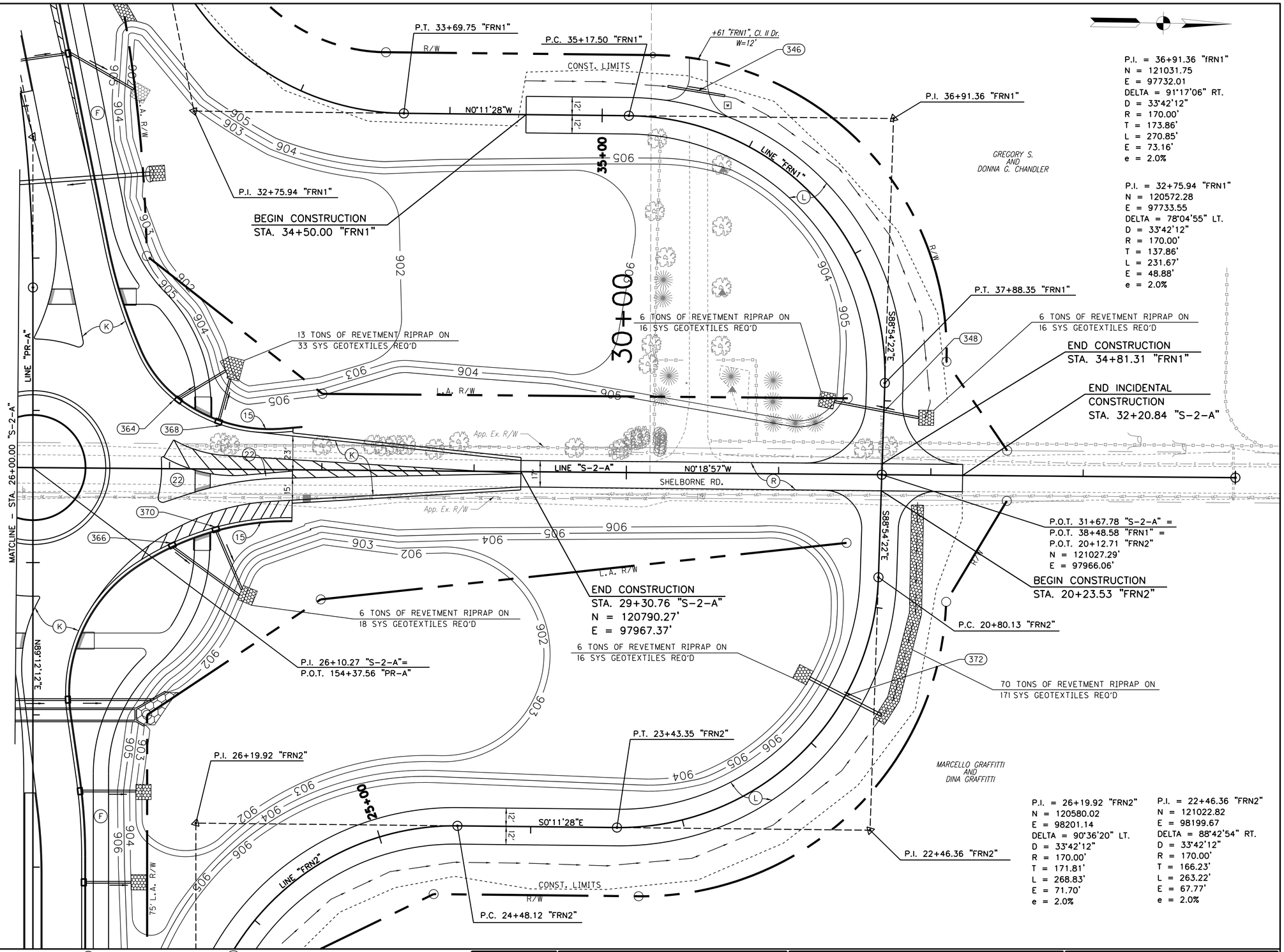
(368) 27+30 LT., STR. NO. 368
INLET TYPE B-15 W/ 28
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(370) 27+30 RT., STR. NO. 370
INLET TYPE B-15 W/ 42
LF OF 12" TYPE 2 PIPE
CONNECTS TO OUTLET DITCH

(346) 35+57 "FRN1", STR. NO. 346
38' OF 12" TYPE 1 PIPE

(348) 38+07 "FRN1", STR. NO. 348
56' OF 15" TYPE 1 PIPE

(372) 21+63 "FRN2", STR. NO. 372
53' OF 18" TYPE 1 PIPE



(D2) DRIVEWAY, CLASS II
(F) MULTI-USE PATH
(K) FULL DEPTH PAVEMENT
(K1) TRANSITION ROAD PAVEMENT
(L) FRONTAGE ROAD PAVEMENT
(R) RESURFACE (SHELBORNE RD)
(S1) HMA FOR STRUCTURE INSTALLATION (EXISTING 146TH STREET)
(S2) HMA FOR STRUCTURE INSTALLATION (EXISTING SHELBORNE)
(R1) RESURFACE (146TH ST.)
(TA) TRUCK APRON
(U) UNDERDRAIN, 6 IN.
(O) COMP. AGG. BASE, NO. 53
(26) SODDING, NURSERY
(13) INTEGRAL CURB, CONCRETE
(14) COMBINED CURB AND GUTTER, CONCRETE, TYPE B MODIFIED
(15) COMBINED CURB AND GUTTER, CONCRETE, MODIFIED
(16) CURB, CONCRETE
(22) CENTER CURB, C

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SHEET
STA. 26+00.00 TO STA. 32+20.84 "S-2-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	43 of 148
CONTRACT	PROJECT
R-38240	1401702

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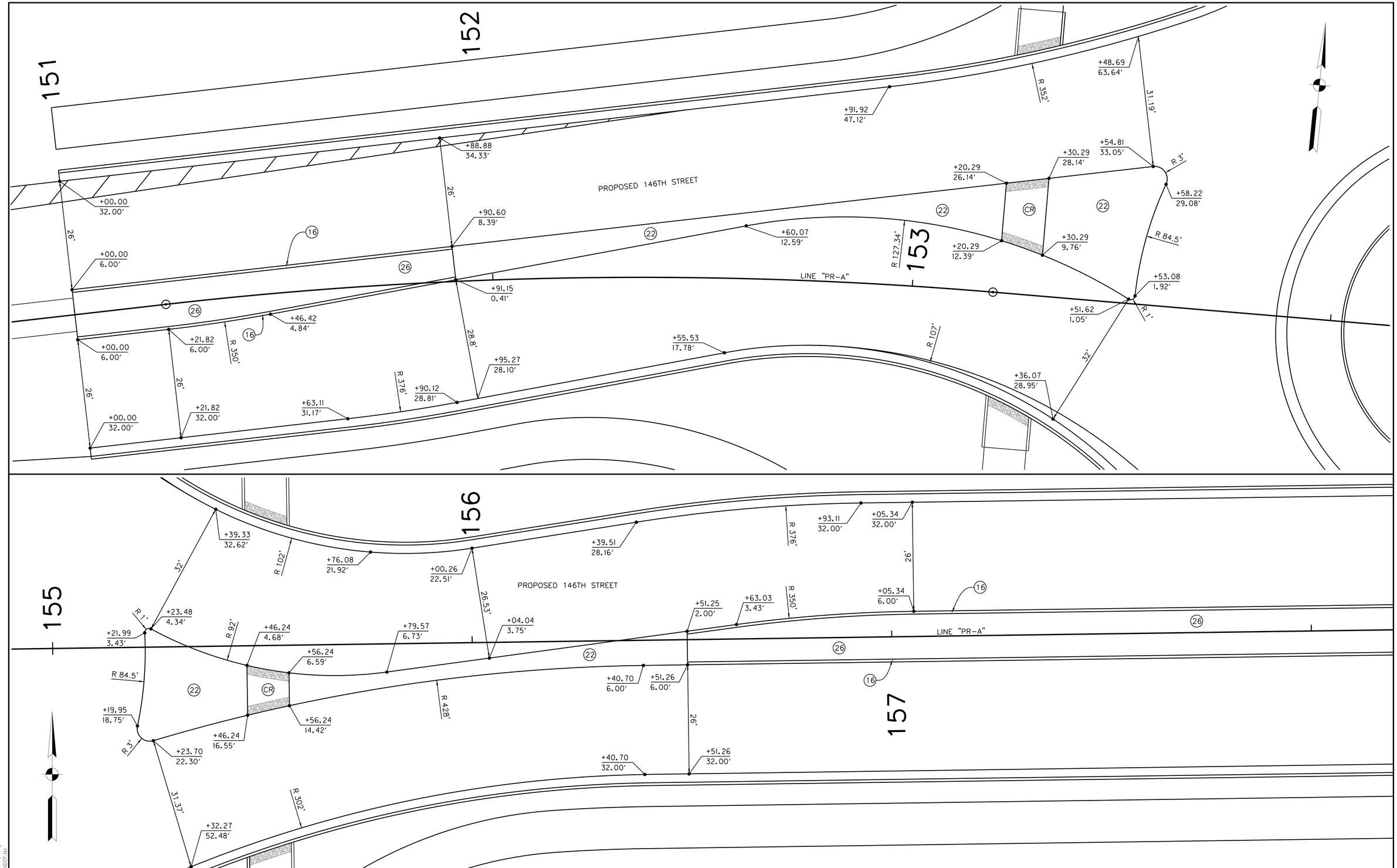

16 CURB, BARRIER

22 CENTER CURB, C

26 SODDING, NURSERY

CR CURB RAMP, CONCRETE

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH	DRAWN: KAM
CHECKED: KAM	CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL ISLAND
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	44 of 148
CONTRACT	PROJECT
R-38240	1401702

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3/14/2018 Version 3.10
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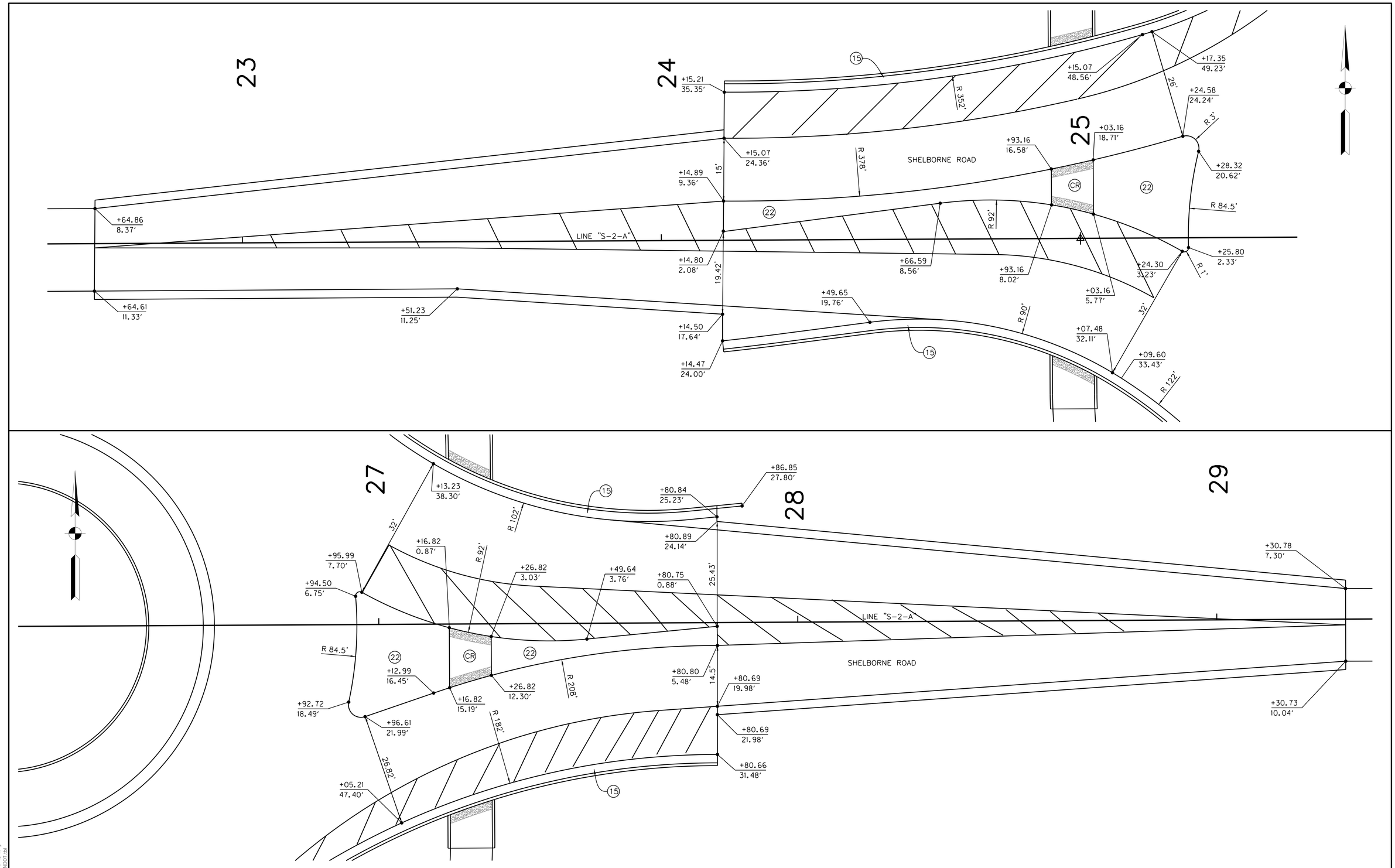

15 COMBINED CURB AND GUTTER, CONCRETE, MODIFIED

22 CENTER CURB, C

26 SODDING, NURSERY

CR CURB RAMP, CONCRETE

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL ISLAND
LINE "S-2-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	45 of 148
CONTRACT	PROJECT
R-38240	1401702

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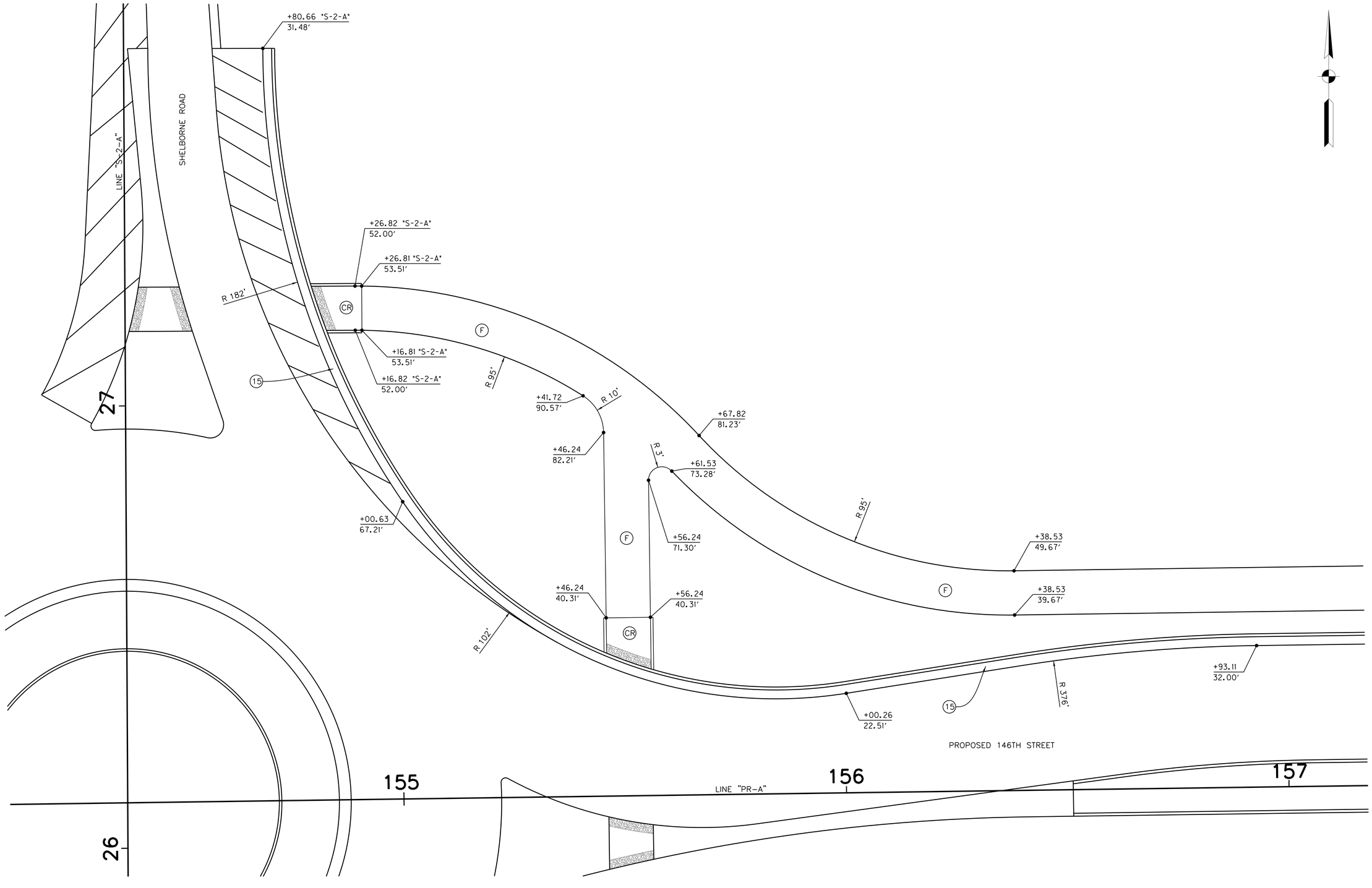

(F) MULTI-USE PATH

(15) COMBINED CURB AND GUTTER, CONCRETE, MODIFIED

(CR) CURB RAMP, CONCRETE

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH | DRAWN: KAM

CHECKED: KAM | CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SIDEWALK
NORTH EAST CORNER

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	46 of 148
CONTRACT	PROJECT
R-38240	1401702

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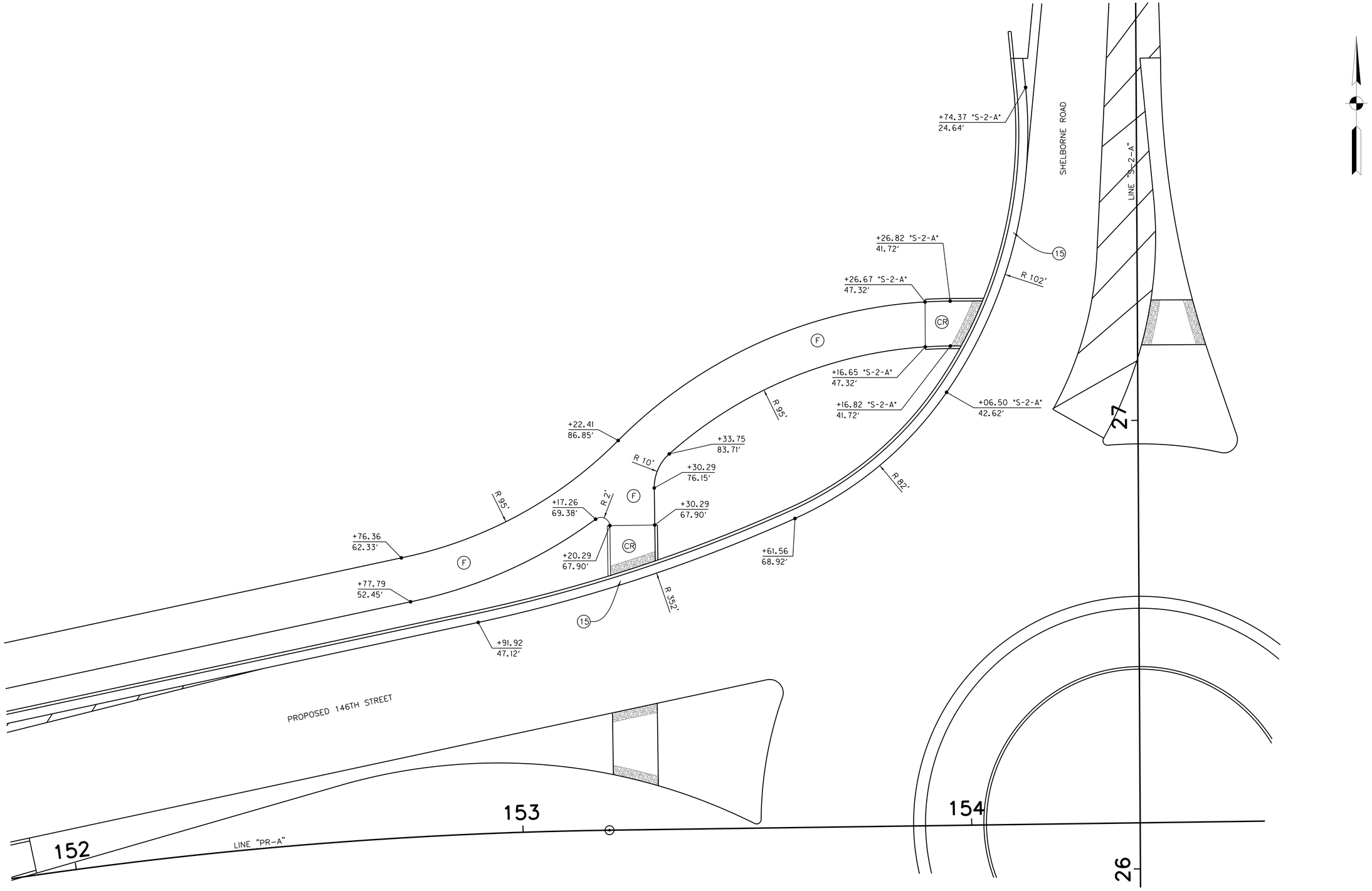

F MULTI-USE PATH

15 COMBINED CURB AND GUTTER, CONCRETE, MODIFIED

CR CURB RAMP, CONCRETE

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: RSH | DRAWN: KAM

CHECKED: KAM | CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SIDEWALK
NORTH WEST CORNER

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	47 of 148
CONTRACT	PROJECT
R-38240	1401702

W:\Hamilton County\146 street\Design\CADD\Const Detail Sidewalk NW Corner.dgn
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Version 3.0
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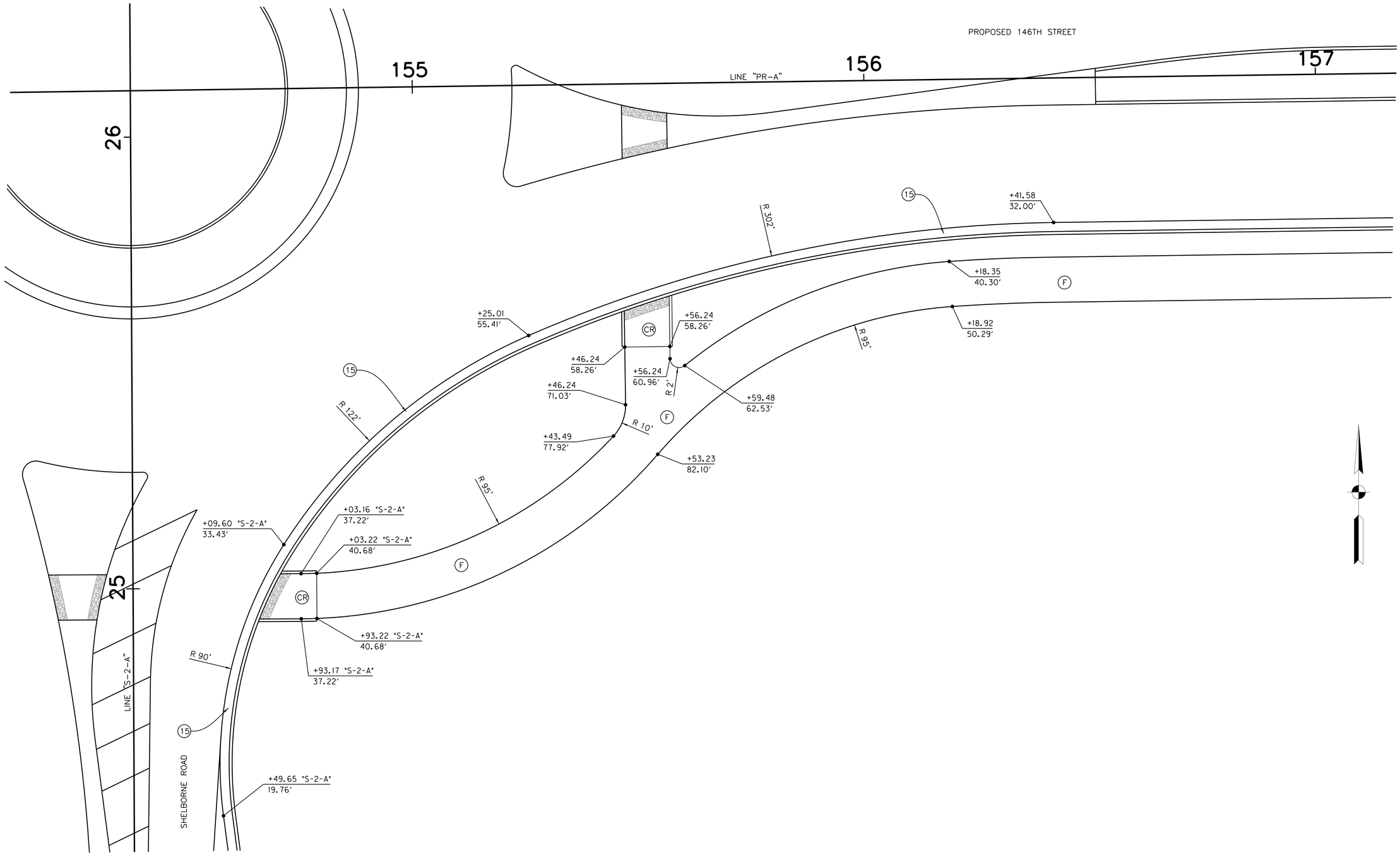
INDOT.tbl



F MULTI-USE PATH

15 COMBINED CURB AND GUTTER, CONCRETE, MODIFIED

CR CURB RAMP, CONCRETE

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH	DRAWN: KAM
CHECKED: KAM	CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SIDEWALK
SOUTH EAST CORNER

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	48 of 148
CONTRACT	PROJECT
R-38240	1401702

W:\Hamilton County\146 street\Design\CADD\Const Detail Sidewalk SE Corner.dgn
3/12/2018 IPDOT Ver 10.10
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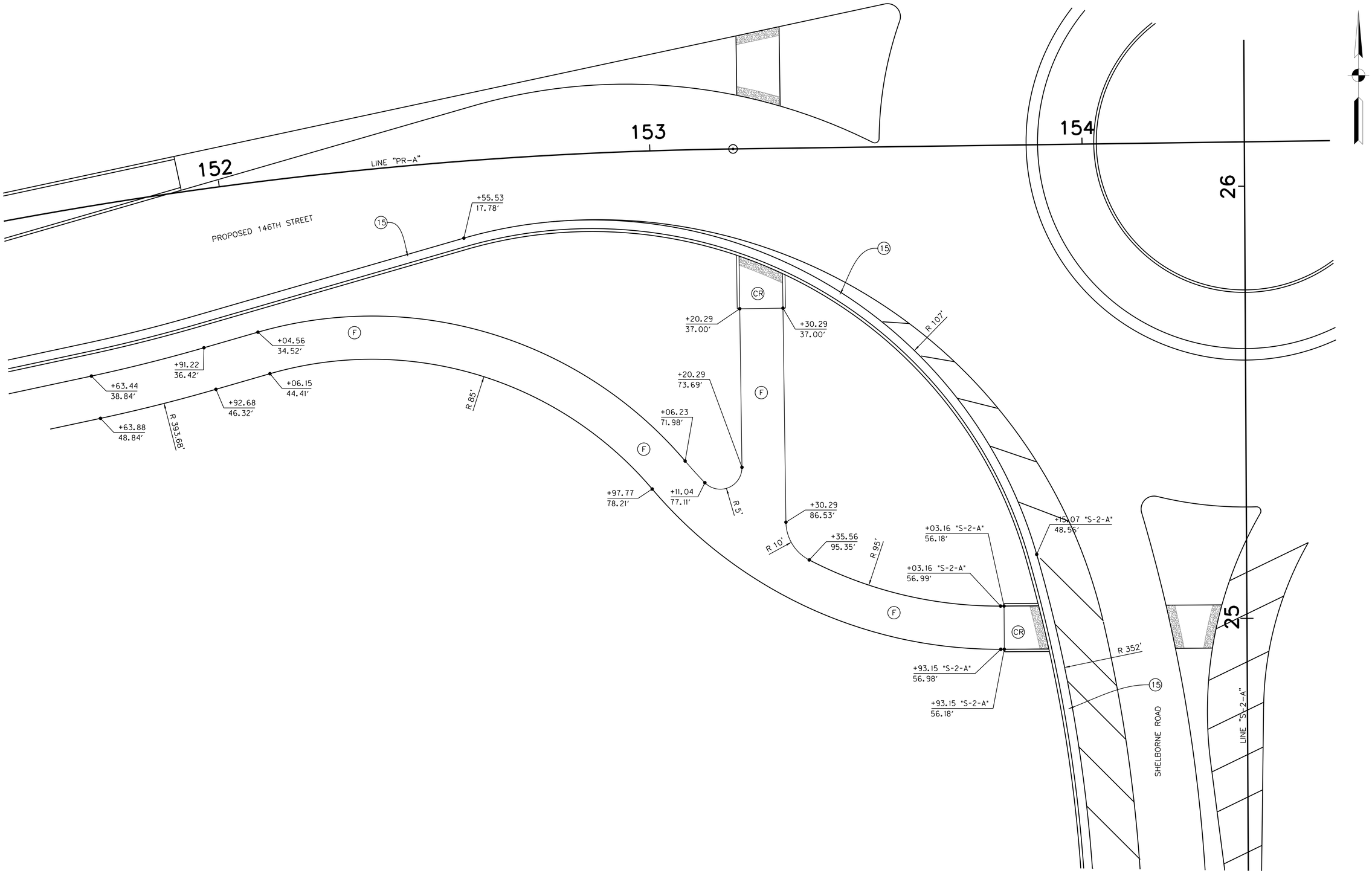

F MULTI-USE PATH

15 COMBINED CURB AND GUTTER, CONCRETE, MODIFIED

CR CURB RAMP, CONCRETE

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH	DRAWN: KAM
CHECKED: KAM	CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL SIDEWALK
SOUTH WEST CORNER

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	49 of 148
CONTRACT	PROJECT
R-38240	1401702

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V8 XM 2008 MicroStation 3.0
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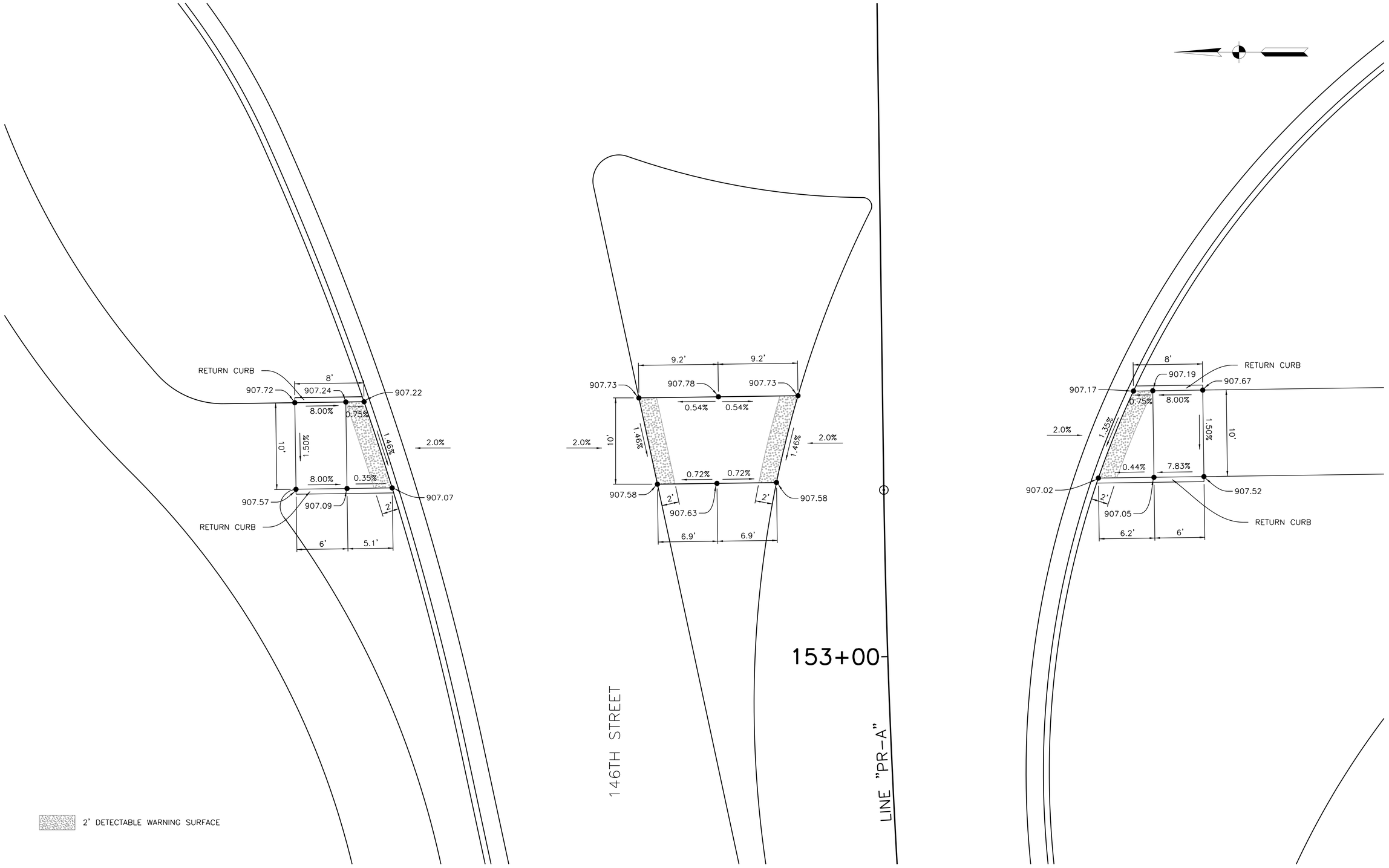

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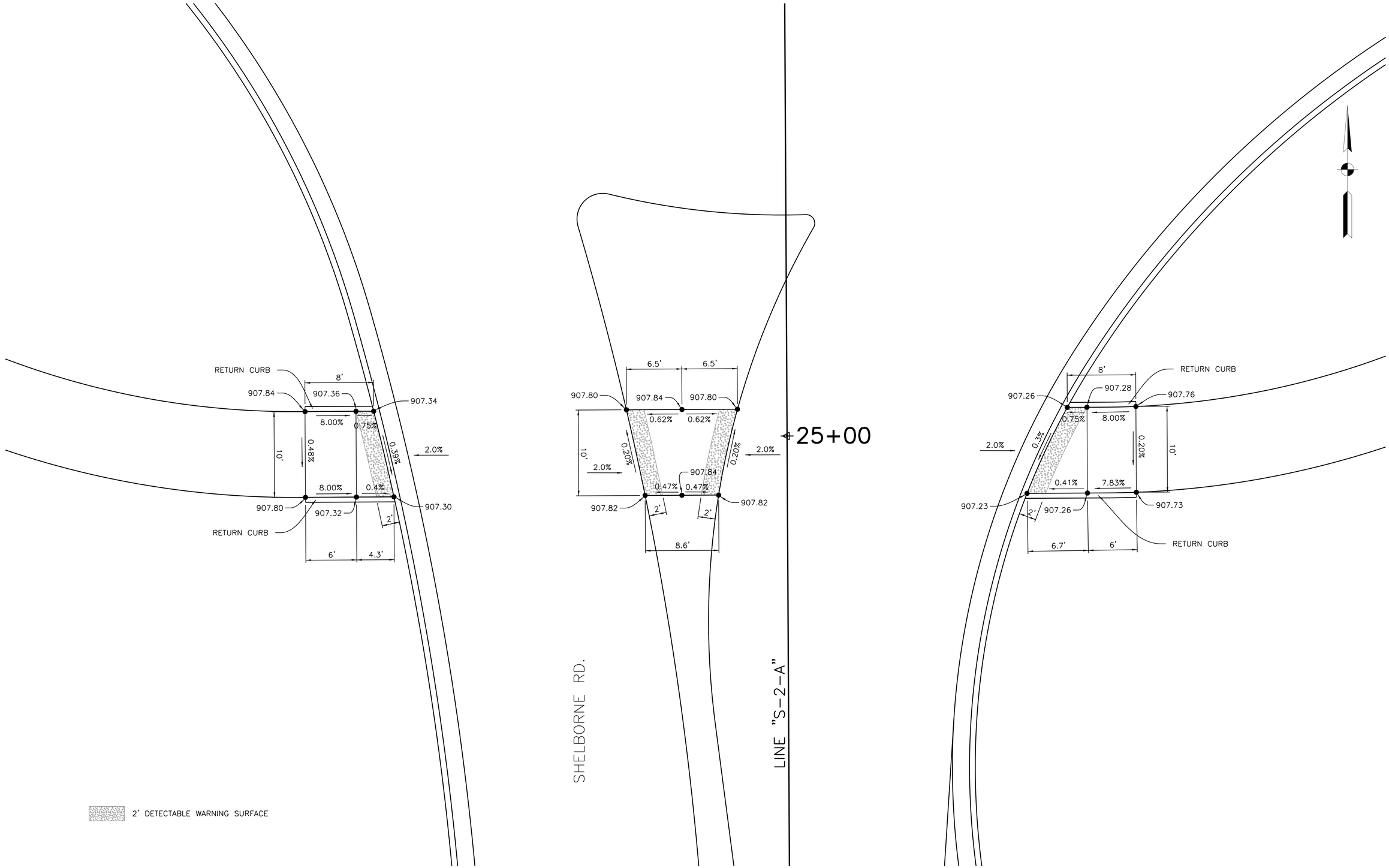
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 5'	BRIDGE FILE	
			VERTICAL SCALE N/A	DESIGNATION 1401702	
DESIGNED: RSH	DRAWN: KAM	CURB RAMP DETAIL SHEET	SURVEY BOOK	SHEETS 50 of 148	
CHECKED: KAM	CHECKED: RSH		CONTRACT R-38240	PROJECT 1401702	



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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

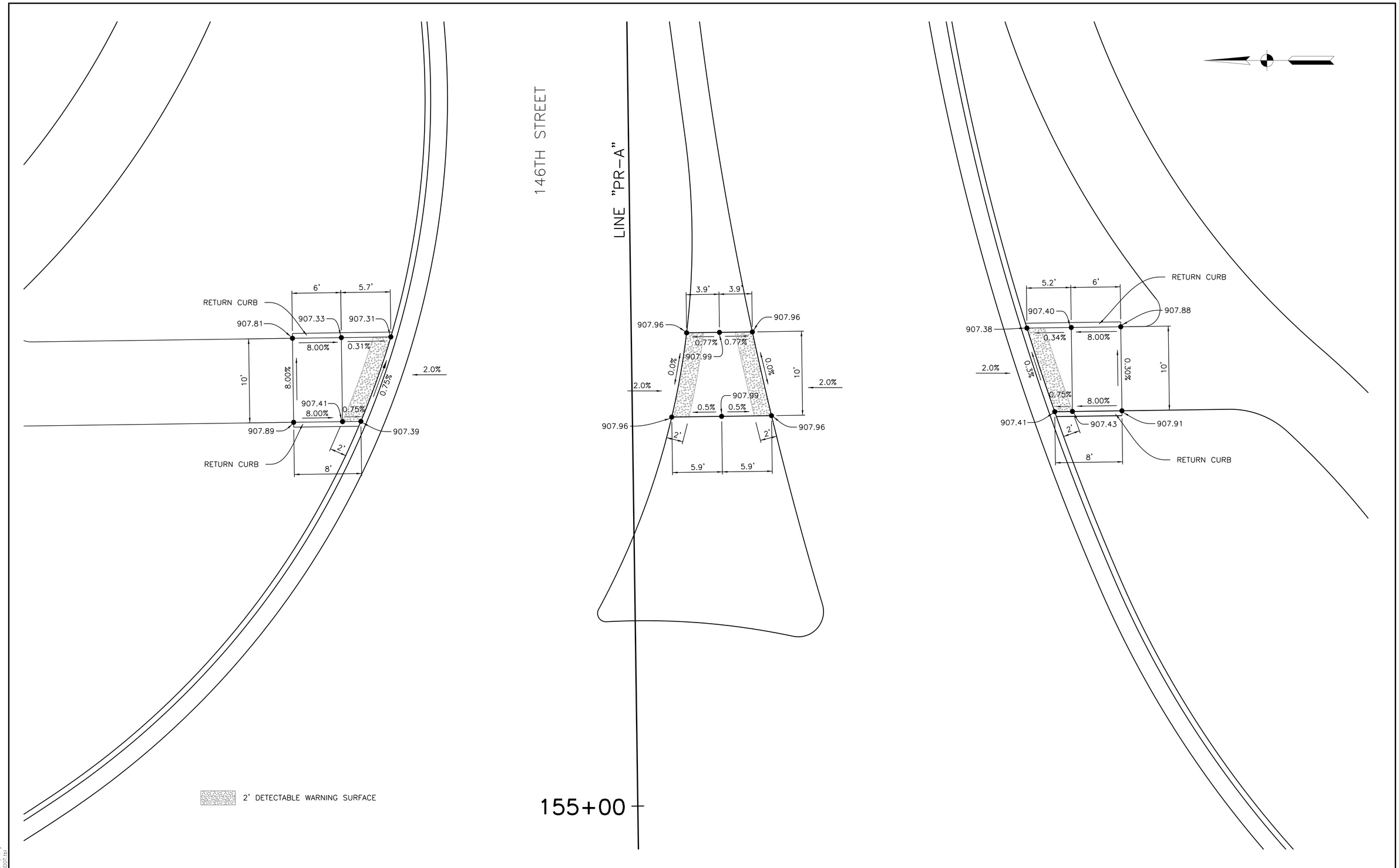
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAIL SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	51 of 148
CONTRACT	PROJECT
R-38240	1401702



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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

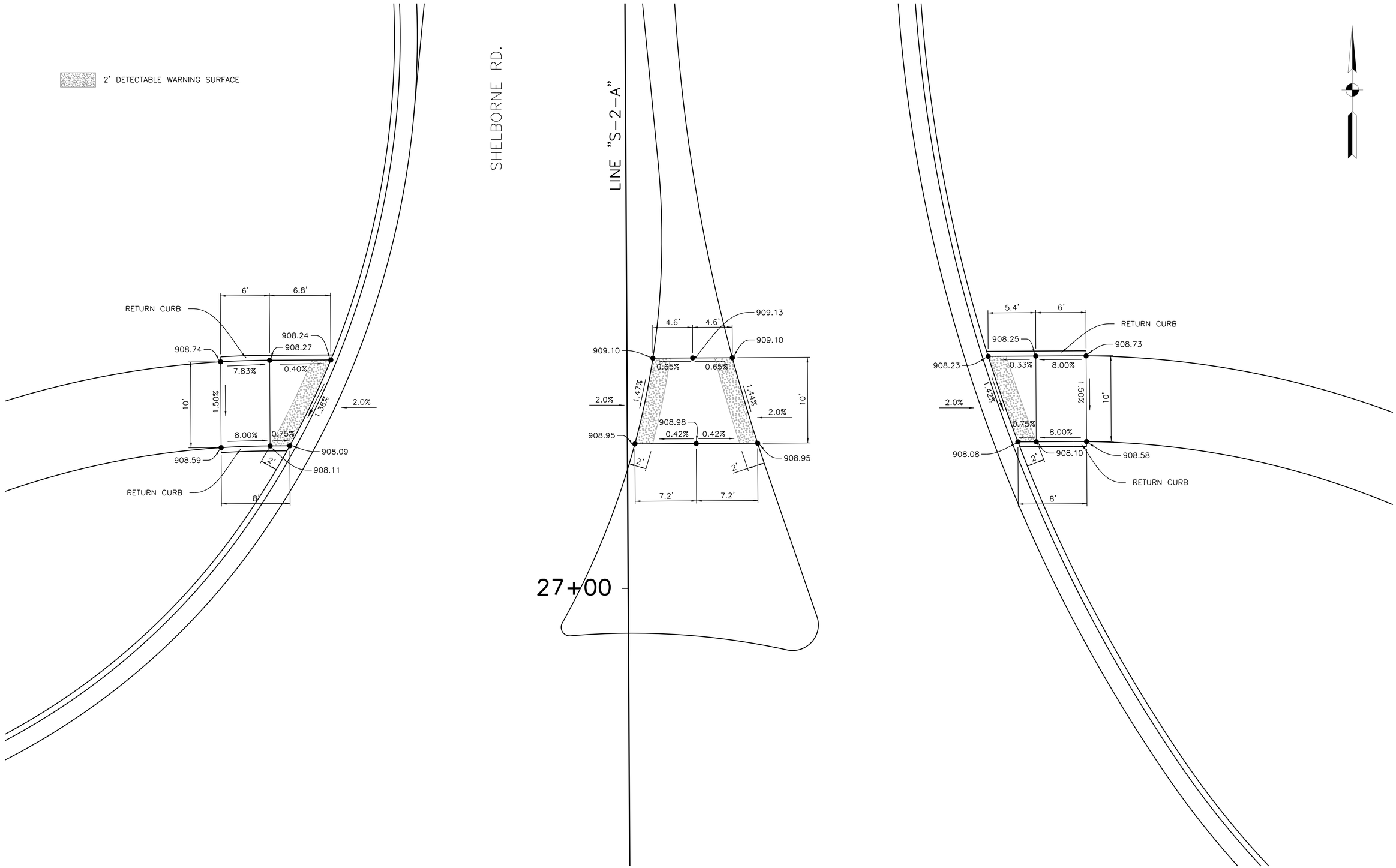
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA DEPARTMENT OF TRANSPORTATION

INDIANA DEPARTMENT OF TRANSPORTATION

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	52 of 148
CONTRACT	PROJECT
R-38240	1401702



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Version 3.0
PDF.pltcfg
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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH | DRAWN: KAM

CHECKED: KAM | CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAIL SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	53 of 148
CONTRACT	PROJECT
R-38240	1401702

Point #	Alignment	Station	Offset	Offset Direction	Elevation
0	PR-A	154+37.56	0.00'	CL	908.01
1	PR-A	153+55.06	0.00'	CL	908.01
2	PR-A	153+55.06	0.80'	Right	908.01
3	PR-A	153+58.62	23.96'	Right	907.96
4	PR-A	153+79.22	58.34'	Right	907.88
5	PR-A	154+10.49	77.93'	Right	907.81
6	S-2-A	25+27.77	0.00'	Right	907.76
7	PR-A	154+42.34	82.36'	Right	907.77
8	PR-A	154+63.02	78.47'	Right	907.81
9	PR-A	154+95.90	58.34'	Right	907.89
10	PR-A	155+16.37	24.39'	Right	907.96
11	PR-A	155+20.06	0.00'	CL	908.01
12	PR-A	155+19.80	6.51'	Left	908.03
13	PR-A	155+15.36	27.45'	Left	908.08
14	PR-A	154+95.90	58.34'	Left	908.16
15	PR-A	154+62.77	78.55'	Left	908.25
16	S-2-A	26+92.77	0.00'	Left	908.31
17	PR-A	154+28.26	81.97'	Left	908.29
18	PR-A	154+07.87	76.97'	Left	908.24
19	PR-A	153+79.22	58.34'	Left	908.16
20	PR-A	153+62.67	34.62'	Left	908.09
21	PR-A	153+87.06	0.00'	CL	908.65
22	PR-A	153+89.24	14.67'	Right	908.60
23	PR-A	154+01.85	35.71'	Right	908.52
24	PR-A	154+20.99	47.70'	Right	908.45
25	PR-A	154+37.14	50.50'	Right	908.40
26	PR-A	154+53.15	48.03'	Right	908.45
27	PR-A	154+73.27	35.71'	Right	908.53
28	PR-A	154+85.80	14.93'	Right	908.60
29	PR-A	154+88.06	0.00'	CL	908.65
30	PR-A	154+85.18	16.80'	Left	908.72
31	PR-A	154+73.27	35.71'	Left	908.80
32	PR-A	154+52.99	48.08'	Left	908.89
33	PR-A	154+37.98	50.50'	Left	908.95
34	PR-A	154+19.38	47.12'	Left	908.88
35	PR-A	154+01.85	35.71'	Left	908.80

Point #	Alignment	Station	Offset	Offset Direction	Elevation
36	PR-A	154+08.28	21.19'	Left	908.73
37	PR-A	151+00.00	32.00'	Left	904.65
38	PR-A	151+00.00	6.00'	Left	905.17
39	PR-A	151+00.00	6.00'	Right	905.17
40	PR-A	151+00.00	32.00'	Right	904.65
41	PR-A	151+24.92	32.01'	Left	904.78
42	PR-A	151+25.00	6.01'	Left	905.30
43	PR-A	151+25.00	5.98'	Right	905.30
44	PR-A	151+25.09	31.99'	Right	904.78
45	PR-A	151+49.29	32.39'	Left	904.90
46	PR-A	151+50.00	6.40'	Left	905.42
47	PR-A	151+50.00	4.50'	Right	905.42
48	PR-A	151+50.79	31.59'	Right	904.88
49	PR-A	151+73.66	33.39'	Left	905.03
50	PR-A	151+75.00	7.43'	Left	905.55
51	PR-A	151+75.00	1.73'	Right	905.55
52	PR-A	151+77.68	30.22'	Right	904.98
53	PR-A	151+98.04	35.01'	Left	905.21
54	PR-A	152+00.00	9.08'	Left	905.73
55	PR-A	152+00.00	1.69'	Left	905.73
56	PR-A	152+04.37	26.79'	Right	905.16
57	PR-A	152+22.42	37.25'	Left	905.52
58	PR-A	152+25.00	11.38'	Left	906.04
59	PR-A	152+25.00	5.75'	Left	906.04
60	PR-A	152+30.08	22.60'	Right	905.46
61	PR-A	152+46.80	40.12'	Left	905.97
62	PR-A	152+50.00	14.32'	Left	906.49
63	PR-A	152+50.00	10.49'	Left	906.49
64	PR-A	152+55.72	17.74'	Right	905.91
65	PR-A	152+71.20	43.63'	Left	906.32
66	PR-A	152+75.00	17.92'	Left	906.84
67	PR-A	152+75.00	14.96'	Left	906.84
68	PR-A	152+76.02	15.37'	Right	906.23
69	PR-A	152+95.60	47.81'	Left	906.74
70	PR-A	153+00.00	22.19'	Left	907.26
71	PR-A	153+00.00	15.36'	Left	907.26

Point #	Alignment	Station	Offset	Offset Direction	Elevation
72	PR-A	152+95.94	16.30'	Right	906.62
73	PR-A	153+13.60	52.06'	Left	907.04
74	PR-A	153+20.29	26.14'	Left	907.58
75	PR-A	153+30.29	9.76'	Left	907.73
76	PR-A	153+20.53	22.04'	Right	907.06
77	PR-A	153+30.29	57.09'	Left	907.26
78	PR-A	153+39.12	29.91'	Left	907.83
79	PR-A	153+38.22	30.15'	Right	907.33
80	PR-A	153+44.10	61.90'	Left	907.39
81	PR-A	153+54.81	33.05'	Left	908.01
82	PR-A	153+50.88	64.49'	Left	907.45
83	PR-A	153+66.37	71.19'	Left	907.63
84	S-2-A	27+83.01	21.92'	Left	909.75
85	S-2-A	27+80.75	0.88'	Right	910.21
86	S-2-A	27+80.80	5.48'	Right	910.21
87	S-2-A	27+81.76	19.91'	Right	909.92
88	S-2-A	27+72.60	24.49'	Left	909.59
89	S-2-A	27+75.00	1.42'	Right	910.11
90	S-2-A	27+75.00	5.53'	Right	910.11
91	S-2-A	27+75.58	31.52'	Right	909.59
92	S-2-A	27+53.30	24.87'	Left	909.04
93	S-2-A	27+50.00	3.73'	Right	909.61
94	S-2-A	27+50.00	7.60'	Right	909.61
95	S-2-A	27+53.71	33.33'	Right	909.09
96	S-2-A	27+36.09	28.38'	Left	908.45
97	S-2-A	27+26.82	3.03'	Right	909.10
98	S-2-A	27+26.82	12.30'	Right	909.10
99	S-2-A	27+33.42	37.44'	Right	908.58
100	S-2-A	27+16.82	36.28'	Left	908.13
101	S-2-A	27+00.29	5.42'	Left	908.48
102	S-2-A	27+07.82	18.20'	Right	908.64
103	S-2-A	27+16.82	42.67'	Right	908.12
104	S-2-A	27+10.82	39.76'	Left	908.06
105	S-2-A	26+96.61	21.99'	Right	908.41
106	S-2-A	27+07.24	46.50'	Right	907.88
107	S-2-A	27+00.94	49.38'	Right	907.84

Point #	Alignment	Station	Offset	Offset Direction	Elevation
108	PR-A	155+02.31	64.75'	Left	907.84
109	PR-A	155+35.64	34.61'	Left	907.65
110	PR-A	155+04.17	66.61'	Right	907.65
111	PR-A	155+46.24	29.41'	Left	907.43
112	PR-A	155+34.10	0.75'	Right	907.96
113	PR-A	155+23.07	22.30'	Right	907.99
114	PR-A	155+28.36	54.03'	Right	907.51
115	PR-A	155+34.75	51.53'	Right	907.49
116	PR-A	155+36.72	18.82'	Right	907.97
117	PR-A	155+46.24	47.44'	Right	907.45
118	PR-A	155+63.17	23.99'	Left	907.34
119	PR-A	155+56.24	6.59'	Right	907.96
120	PR-A	155+56.24	14.42'	Right	907.96
121	PR-A	155+63.67	42.22'	Right	907.39
122	PR-A	155+77.38	21.81'	Left	907.30
123	PR-A	155+75.00	7.17'	Right	907.88
124	PR-A	155+75.00	11.07'	Right	907.88
125	PR-A	155+80.60	38.22'	Right	907.33
126	PR-A	155+96.22	22.01'	Left	907.17
127	S-2-A	25+03.16	29.65'	Right	907.30
128	PR-A	156+00.00	4.24'	Right	907.70
129	PR-A	156+00.00	7.94'	Right	907.70
130	PR-A	156+03.38	34.43'	Right	907.17
131	PR-A	156+21.15	25.52'	Left	907.00
132	PR-A	156+25.00	1.20'	Right	907.54
133	PR-A	156+25.00	6.29'	Right	907.54
134	PR-A	156+26.32	32.39'	Right	907.02
135	PR-A	156+46.60	29.11'	Left	906.94
136	PR-A	156+50.00	1.85'	Left	907.49
137	PR-A	156+50.00	6.00'	Right	907.49
138	PR-A	156+50.00	32.00'	Right	906.97
139	PR-A	156+73.61	31.49'	Left	906.99
140	PR-A	156+75.00	4.68'	Left	907.53
141	PR-A	156+75.00	6.00'	Right	907.53
142	PR-A	156+75.00	32.00'	Right	907.01
143	PR-A	157+00.00	32.00'	Left	907.12

Point #	Alignment	Station	Offset	Offset Direction	Elevation
144	PR-A	157+00.00	5.96'	Left	907.64
145	PR-A	157+00.00	6.13'	Right	907.64
146	PR-A	157+00.00	32.00'	Right	907.12
147	PR-A	153+73.98	63.58'	Right	907.74
148	S-2-A	25+23.01	51.14'	Left	907.50
149	S-2-A	25+17.04	49.13'	Left	907.43
150	S-2-A	25+24.58	24.24'	Left	907.74
151	S-2-A	25+18.82	0.28'	Right	907.73
152	S-2-A	25+09.77	33.54'	Right	907.34
153	S-2-A	25+03.79	45.58'	Left	907.38
154	S-2-A	25+10.03	20.34'	Left	907.78
155	S-2-A	24+88.09	42.08'	Left	907.33
156	S-2-A	24+93.16	16.58'	Left	907.82
157	S-2-A	24+93.16	8.02'	Left	907.82
158	S-2-A	24+84.78	22.31'	Right	907.25
159	S-2-A	24+71.18	39.15'	Left	907.28
160	S-2-A	24+75.00	13.43'	Left	907.80
161	S-2-A	24+75.00	9.22'	Left	907.80
162	S-2-A	24+71.53	19.70'	Right	907.22
163	S-2-A	24+47.90	36.48'	Left	907.16
164	S-2-A	24+50.00	10.57'	Left	907.68
165	S-2-A	24+50.00	6.49'	Left	907.68
166	S-2-A	24+53.24	19.38'	Right	907.16
167	S-2-A	24+24.62	35.37'	Left	907.04
168	S-2-A	24+25.00	9.37'	Left	907.56
169	S-2-A	24+25.00	3.36'	Left	907.56
170	S-2-A	24+18.19	22.44'	Right	907.04
171	S-2-A	24+15.21	35.35'	Left	906.98
172	S-2-A	24+14.89	9.36'	Left	907.50
173	S-2-A	24+14.81	2.18'	Left	907.50
174	S-2-A	24+14.47	24.00'	Right	906.98

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REVISION 3.0
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INDOT.tbl
3/12/2018
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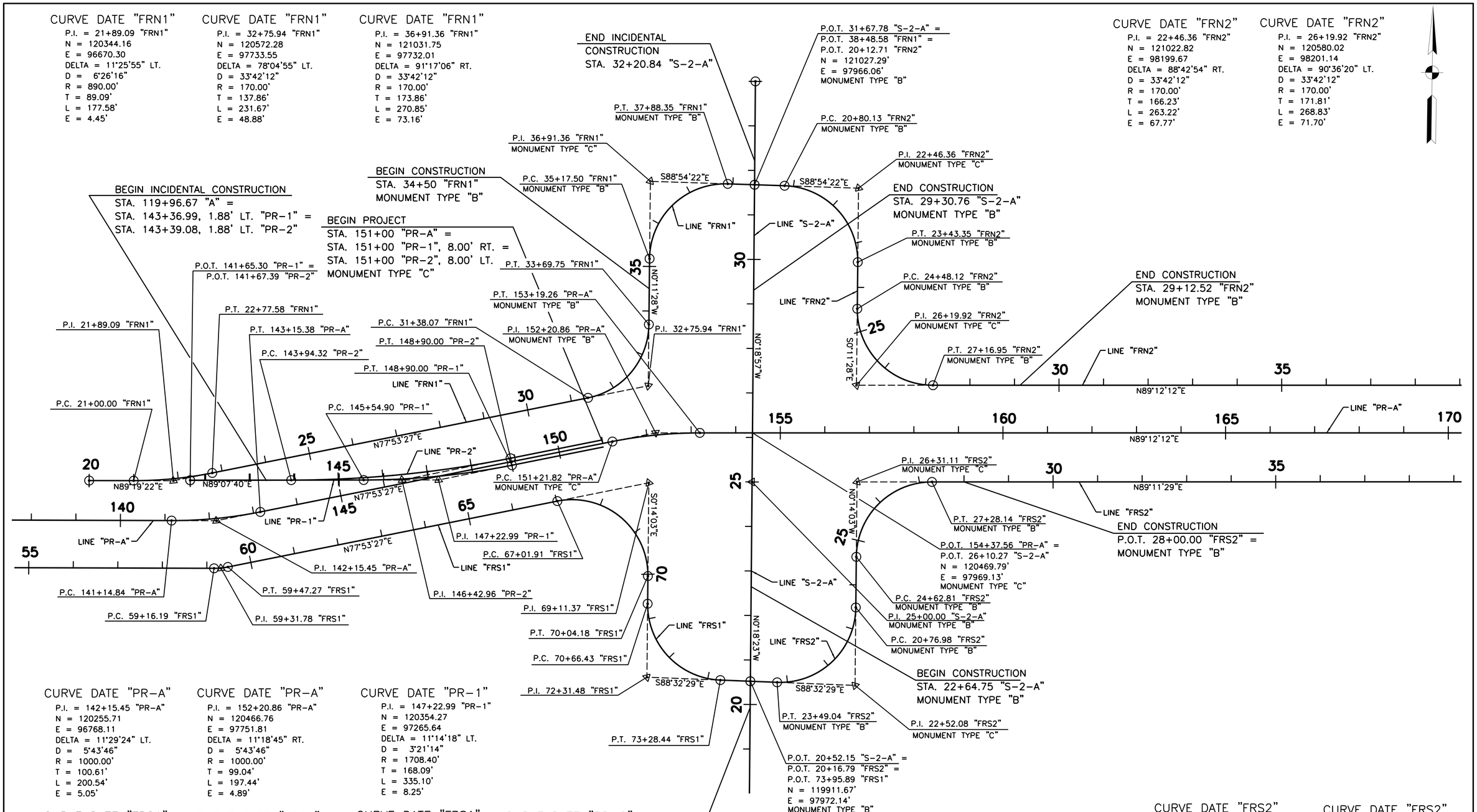
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	54 of 148
CONTRACT	PROJECT
R-38240	1401702



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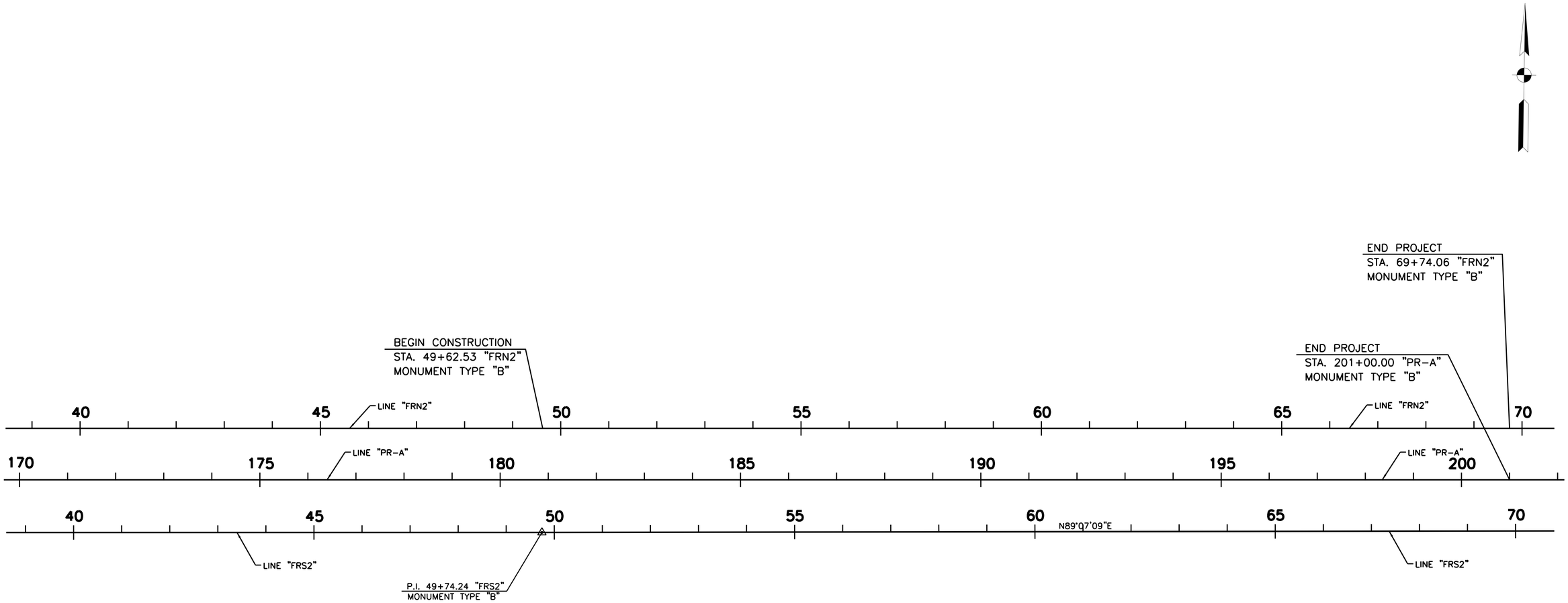
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: RSH | DRAWN: KAM
CHECKED: KAM | CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	55 of 148
CONTRACT	PROJECT
R-38240	1401702



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Version 3.0
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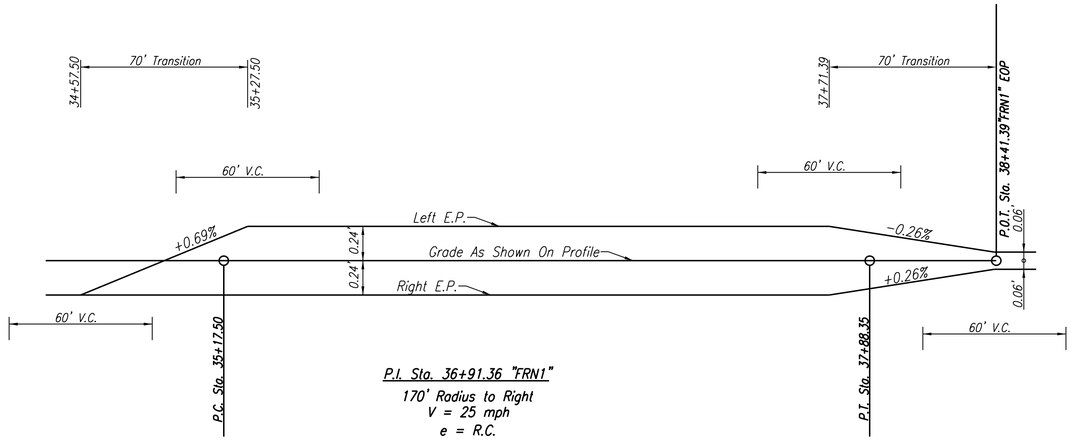
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

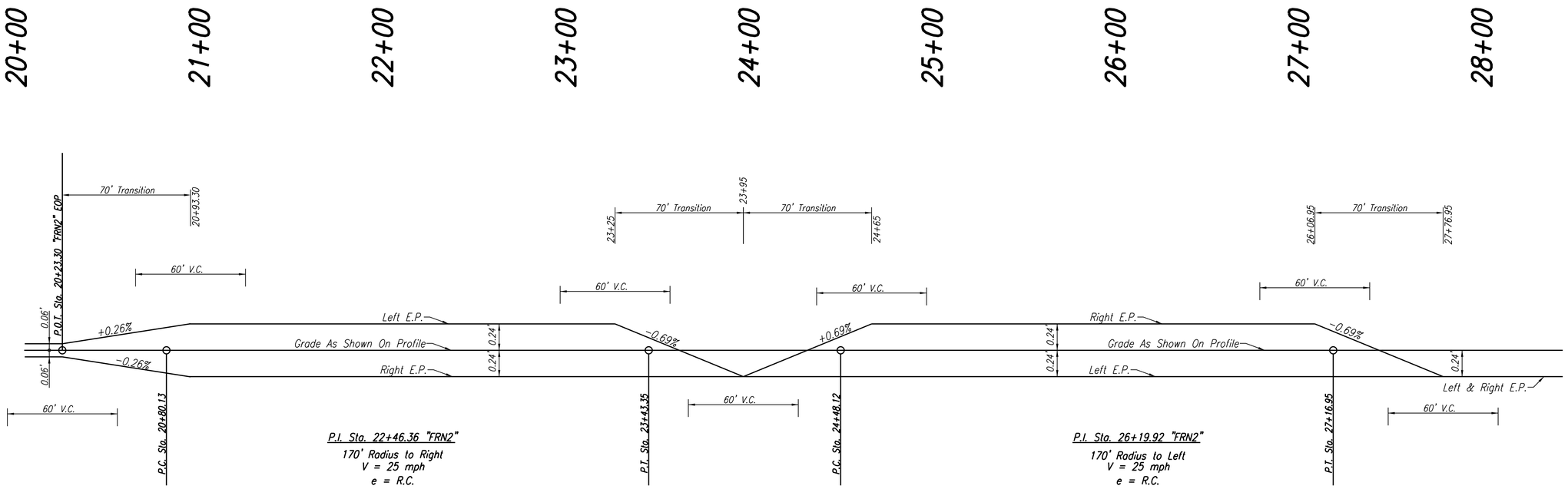
DESIGNED: RSH | DRAWN: KAM
CHECKED: KAM | CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	56 of 148
CONTRACT	PROJECT
R-38240	1401702





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Version 3.0
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INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

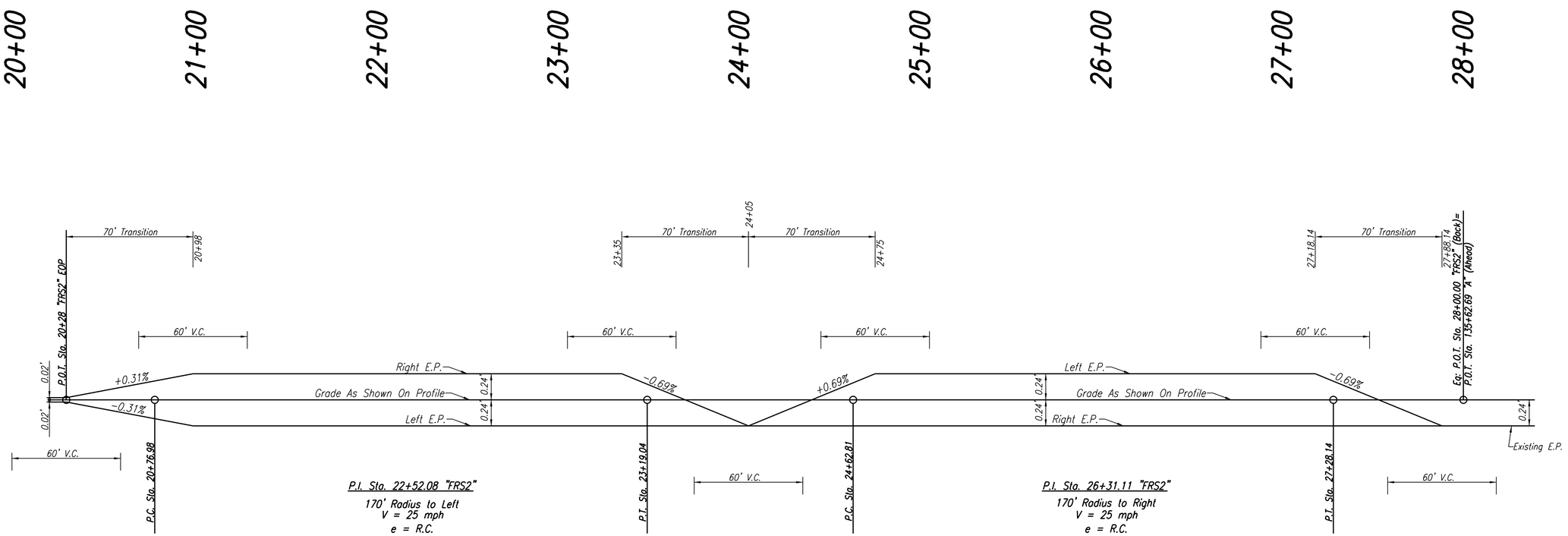
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DIAGRAM
LINES "FRN-1" & "FRN-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
1" = 2'	1401702
SURVEY BOOK	SHEETS
	57 of 148
CONTRACT	PROJECT
R-38240	1401702



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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

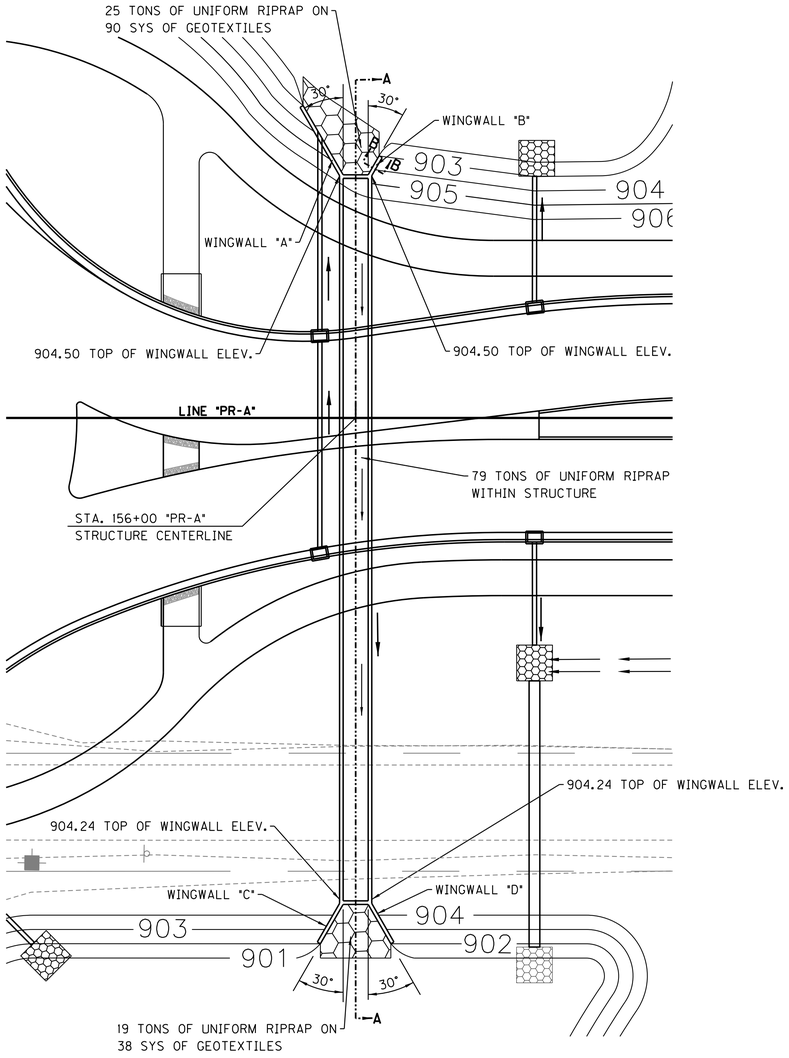
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

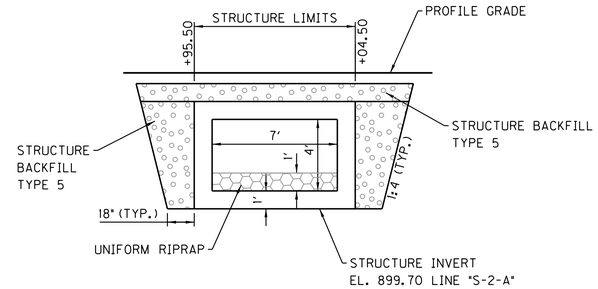
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DIAGRAM
LINE "FRS-2"

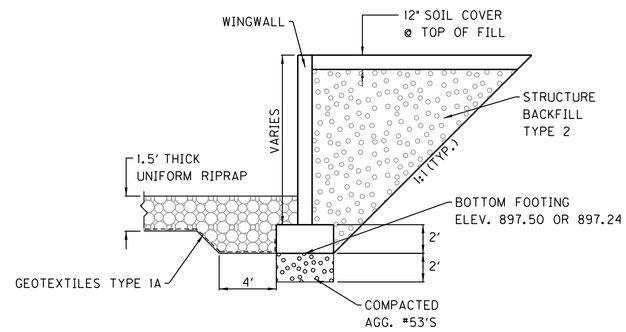
HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
1" = 2'	1401702
SURVEY BOOK	SHEETS
	58 of 148
CONTRACT	PROJECT
R-38240	1401702



PLAN VIEW
SCALE: 1"=20'



ELEVATION VIEW
SCALE: 1"=4'



SECTION B-B
TYPICAL ALL WINGWALLS
NOT TO SCALE

THIS TABLE TO BE FILLED OUT PENDING
COMPLETION OF GEOTECHNICAL REPORT

SOIL PARAMETERS FOR FOUNDATION DESIGN OF WINGWALLS
ALLOWABLE BEARING PRESSURE (PSF)
FRICTION ANGLE BETWEEN WALL AND BACKFILL ($\bar{\delta}$)*
ANGLE OF INTERNAL FRICTION OF THE FOUNDATION SOIL (ø)
ADHESION BETWEEN THE FOUNDATION SOIL AND THE POURED CONCRETE FOOTING (C_A) (PSF)
ULTIMATE COHESION (PSF)
THE NORMAL FRICTION FACTOR (f) AT THE BASE OF FOUNDATION
RESISTANCE FACTOR
FACTORED BEARING RESISTANCE (PSF)

* ASSUMES STRUCTURE BACKFILL TYPE 2 BEHIND WALL

STRUCTURE DESCRIPTION

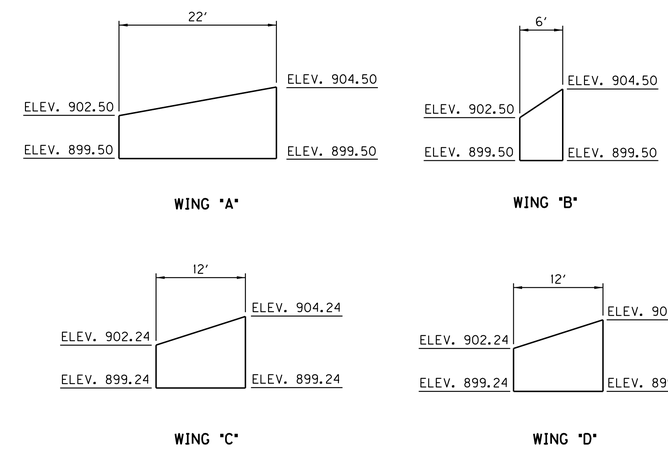
PRECAST REINFORCED CONCRETE 4-SIDED BOX STRUCTURE
1 SPAN @ 7' SPAN X 4' RISE
57' CLEAR ROADWAY
0° SKEW

DESIGN DATA

PROPOSED STRUCTURE IS A 7' SPAN X 4' RISE PRECAST 4-SIDED BOX STRUCTURE

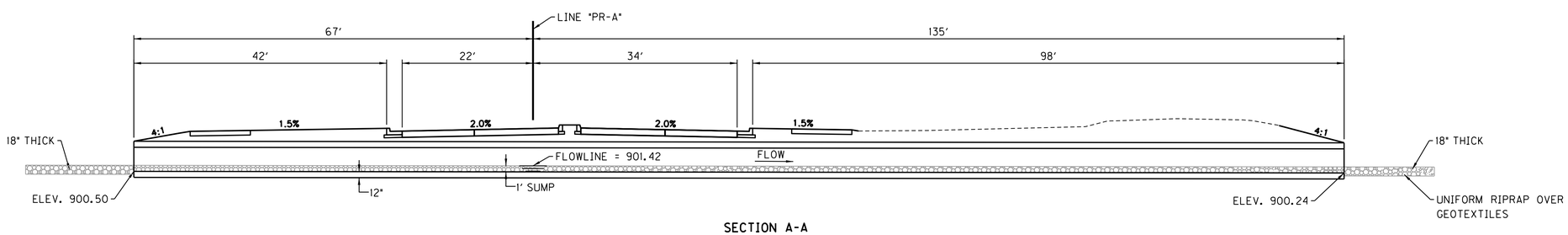
LIVE LOAD: DESIGNED FOR HL-93 LOADING IN ACCORDANCE WITH THE AASHTO LRFD SPECIFICATIONS, 7TH EDITION

WINGWALL	AREA (SQ.FT.)
A	88
B	24
C	50
D	50
TOTAL	212



NOT TO SCALE

NOTE: STRUCTURE BACKFILL SHALL BE USED TO BACKFILL BEHIND WINGWALLS.



SECTION A-A
SCALE: 1"=10'

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3/17/2008 8:00:00 AM
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INDOT.tbl

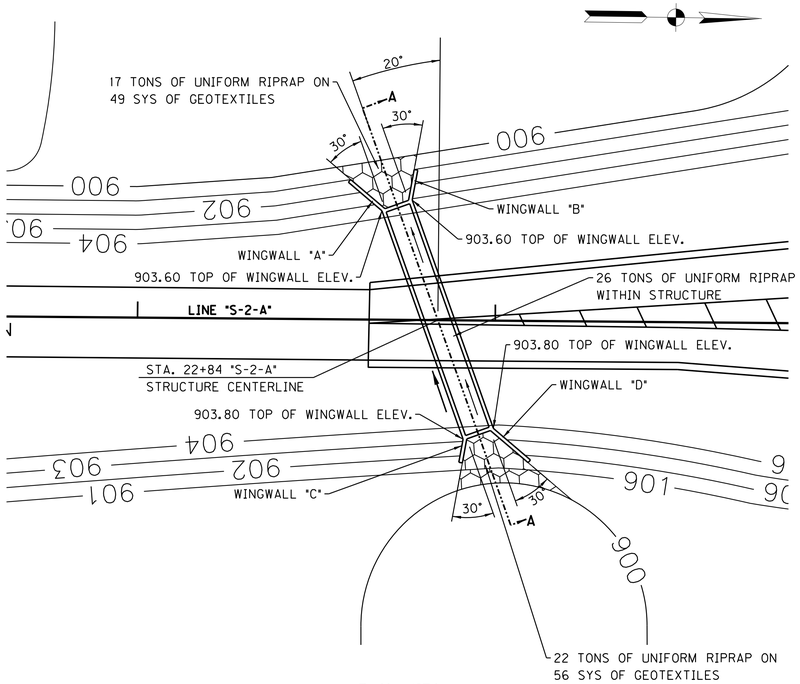
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

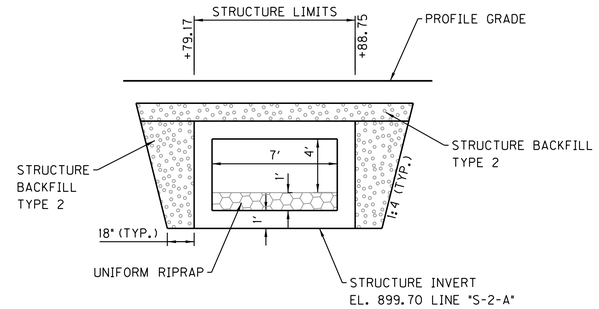
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN SHEET
STA. 156+00 "PR-A" / STR. NO. 224

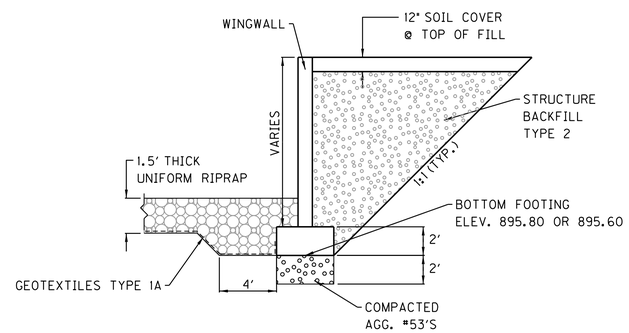
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	
VERTICAL SCALE	DESIGNATION
AS NOTED	1401702
SURVEY BOOK	SHEETS
	59 of 148
CONTRACT	PROJECT
R-38240	1401702



PLAN VIEW
SCALE: 1"=20'



ELEVATION VIEW
SCALE: 1"=4'



SECTION B-B
TYPICAL ALL WINGWALLS
NOT TO SCALE

THIS TABLE TO BE FILLED OUT PENDING
COMPLETION OF GEOTECHNICAL REPORT

SOIL PARAMETERS FOR FOUNDATION DESIGN OF WINGWALLS
ALLOWABLE BEARING PRESSURE (PSF)
FRICTION ANGLE BETWEEN WALL AND BACKFILL ($\bar{\sigma}$)•
ANGLE OF INTERNAL FRICTION OF THE FOUNDATION SOIL (ø)
ADHESION BETWEEN THE FOUNDATION SOIL AND THE POURED CONCRETE FOOTING (C_a) (PSF)
ULTIMATE COHESION (PSF)
THE NORMAL FRICTION FACTOR (f) AT THE BASE OF FOUNDATION
RESISTANCE FACTOR
FACTORED BEARING RESISTANCE (PSF)

• ASSUMES STRUCTURE BACKFILL TYPE 2 BEHIND WALL

STRUCTURE DESCRIPTION

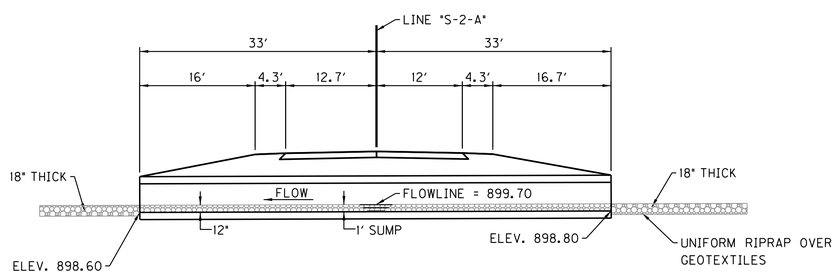
PRECAST REINFORCED CONCRETE 4-SIDED BOX STRUCTURE
1 SPAN @ 7' SPAN X 4' RISE
23' CLEAR ROADWAY
20° SKEW LEFT

DESIGN DATA

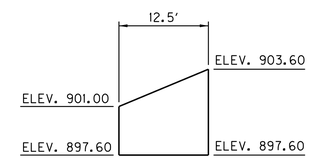
PROPOSED STRUCTURE IS A 7' SPAN X 4' RISE PRECAST 4-SIDED BOX STRUCTURE

LIVE LOAD: DESIGNED FOR HL-93 LOADING IN ACCORDANCE WITH THE AASHTO LRFD SPECIFICATIONS, 7TH EDITION

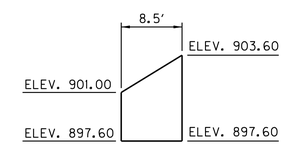
WINGWALL	AREA (SQ.FT.)
A	58.75
B	40
C	31.5
D	65.5
TOTAL	195.75



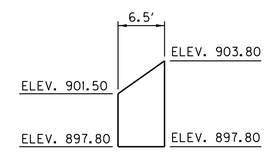
SECTION A-A
SCALE: 1"=10'



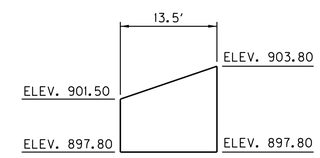
WING "A"



WING "B"



WING "C"



WING "D"

NOTE: STRUCTURE BACKFILL SHALL BE USED TO BACKFILL BEHIND WINGWALLS.

NOT TO SCALE

W:\Hamilton County\146 street\Design\CADD\Box Culvert Detail02.dgn
3/1/2018
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PDF.pltcfg
INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN SHEET
STA. 22+84 "S-2-A" / STR. NO. 354

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	
VERTICAL SCALE	DESIGNATION
AS NOTED	1401702
SURVEY BOOK	SHEETS
	60 of 148
CONTRACT	PROJECT
R-38240	1401702

140+00

150+00

+60 "PR-1"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

BEGIN INCIDENTAL CONSTRUCTION
STA. 119+96.67 "A" =
STA. 143+36.99, 1.88' LT. "PR-1" =
STA. 143+39.08, 1.88' LT. "PR-2"

+41 "FRN1"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

+50 "PR-A"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

+90 "PR-A"
TEMP. MOD. CHECK DAM

+30 "PR-A"
TEMP. MOD. CHECK DAM

INV = 893.23

INV = 892.66

INV = 892.64

898.00

LINE "FRN1"

CONST. LIMITS

LINE "PR-2"

LINE "PR-A"

CONST. LIMITS

LINE "PR-1"

LINE "FRS1"

MATCLINE - STA. 153+00.00 "PR-A"

+15 "PR-A"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

BEGIN PROJECT
STA. 151+00 "PR-A" =
STA. 151+00 "PR-1", 8.00' RT. =
STA. 151+00 "PR-2", 8.00' LT.

905 904 903 902 901 900 899

—SF— TEMPORARY SILT FENCE
—D— TEMPORARY PERIMETER DIVERSION
TEMP. MOD. CHECK DAM W/ GRAVEL RING
TEMP. MOD. CHECK DAM
TEMP. SEDIMENT TRAP
DITCH INLET PROTECTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEET
STA. 138+00 TO STA. 153+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	61 of 148
CONTRACT	PROJECT
R-38240	1401702

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160+00

165+00

PERIMETER DIVERSION DIKE

CONST. LIMITS

+71 "FRN2"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

END CONSTRUCTION
STA. 29+12.52 "FRN2"

+00 "FRN2"

+25 "PR-A"
TEMP. SEDIMENT TRAP
(OVER EXCAVATE @ 0.21%
TO STA. 184+00 "PR-A"

LINE "FRN2"

CONST. LIMITS

MATCLINE - STA. 153+00.00 "PR-A"

MATCLINE - STA. 169+00.00 "PR-A"

LINE "PR-A"

LINE "A"

CONST. LIMITS

END CONSTRUCTION
STA. 28+00.00 "FRS2"

+50 "PR-A"
TEMP. SEDIMENT TRAP
(OVER EXCAVATE @ 0.21%
TO STA. 182+00 "PR-A"

+00 "FRS2"
TEMP. MOD. CHECK DAM

CONST. LIMITS

+60 "PR-A"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

+75 "FRS2"
TEMP. MOD. CHECK DAM

LINE "FRS2"

+01 "S-2-A"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

— SF — TEMPORARY SILT FENCE

— D — TEMPORARY PERIMETER DIVERSION

TEMP. MOD. CHECK DAM W/ GRAVEL RING

TEMP. MOD. CHECK DAM

TEMP. SEDIMENT TRAP

DITCH INLET PROTECTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH	DRAWN: KAM
CHECKED: KAM	CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEET
STA. 153+00 TO STA. 169+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	62 of 148
CONTRACT	PROJECT
R-38240	1401702

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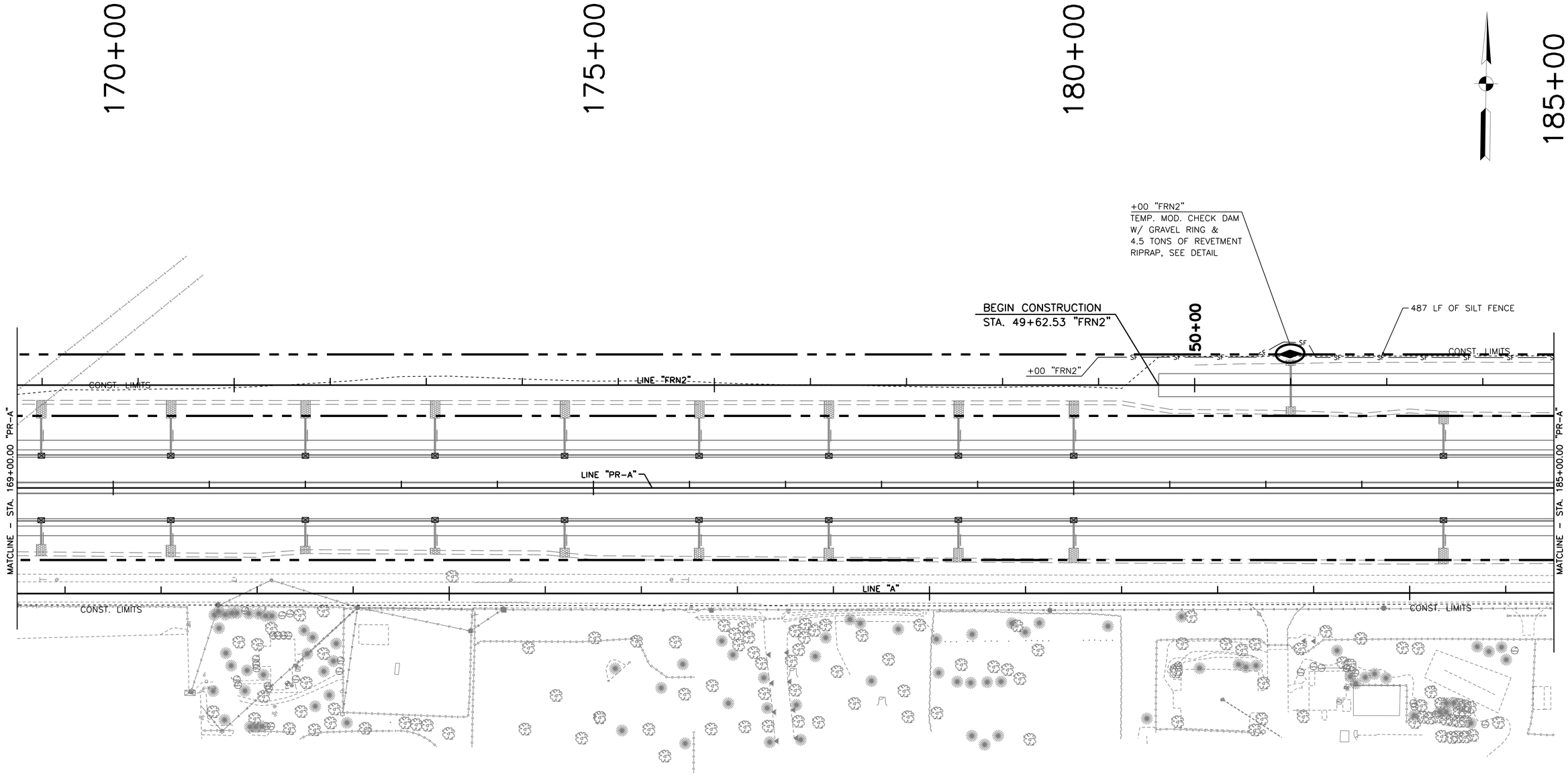

— SF — TEMPORARY SILT FENCE

— D — TEMPORARY PERIMETER DIVERSION

TEMP. MOD. CHECK DAM W/ GRAVEL RING

TEMP. MOD. CHECK DAM

TEMP. SEDIMENT TRAP

DITCH INLET PROTECTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH	DRAWN: KAM
CHECKED: KAM	CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEET
STA. 169+00 TO STA. 185+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	63 of 148
CONTRACT	PROJECT
R-38240	1401702

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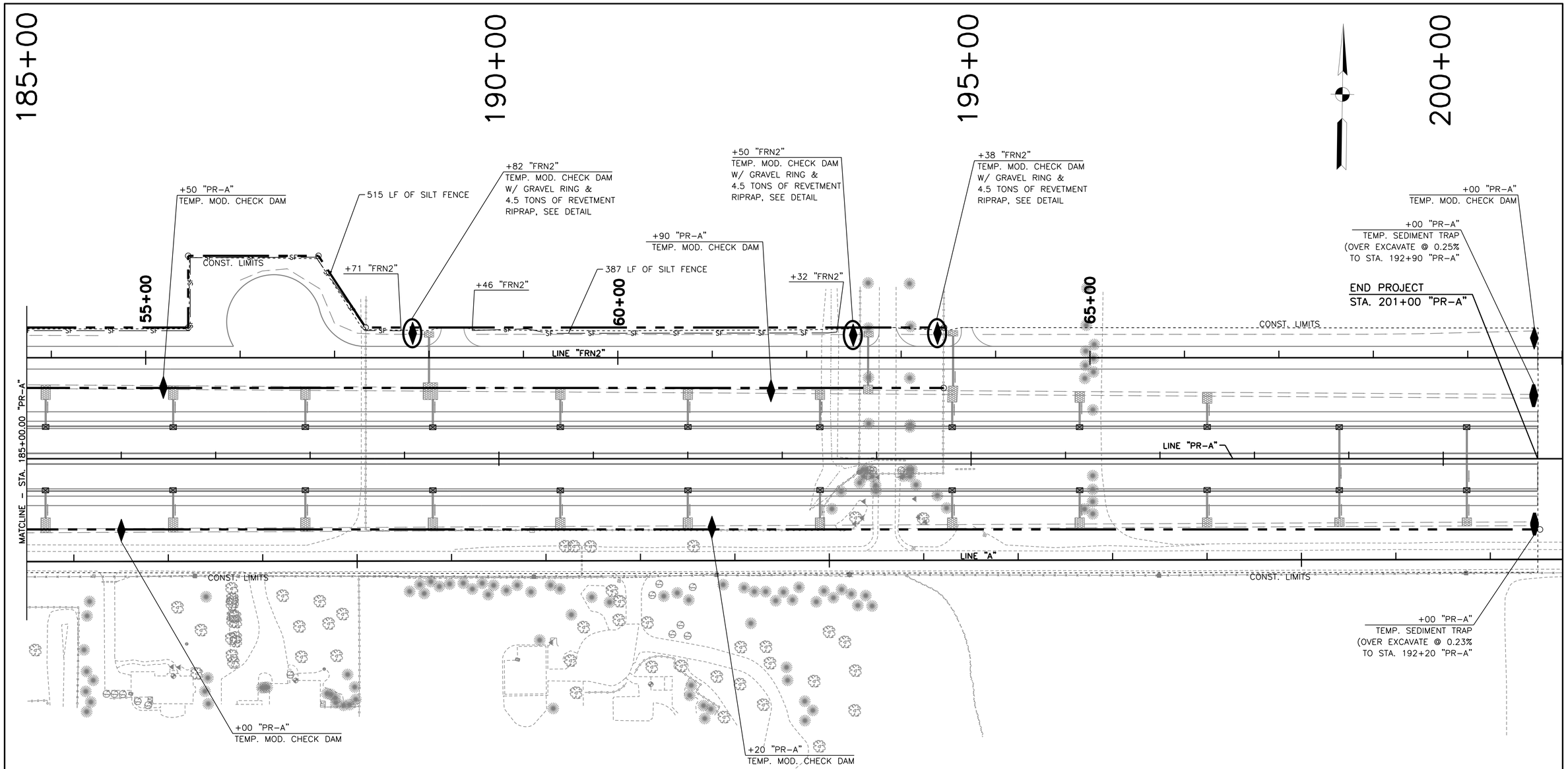

— SF — TEMPORARY SILT FENCE
— D — TEMPORARY PERIMETER DIVERSION
TEMP. MOD. CHECK DAM W/ GRAVEL RING
TEMP. MOD. CHECK DAM
TEMP. SEDIMENT TRAP
DITCH INLET PROTECTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEET
STA. 185+00 TO STA. 201+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	64 of 148
CONTRACT	PROJECT
R-38240	1401702

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20+00

30+00

+00 "FRN1"
TEMP. MOD. CHECK DAM

+41 "FRN1"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

TEMP. SEDIMENTATION BASIN SW
28.22 ACRES OF DRAINAGE AREA
SEE DETAIL

TEMPORARY 12" HDPE OUTLET
DURING CONSTRUCTION TO BE
REPLACED WITH 48" OUTLET.

70+00

LINE "FRS1"

35+00

LINE "FRN1"

+50 "PR-A"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

+11 "FRN1"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

+38 "FRS1"
TEMP. MOD. CHECK DAM

P.I. 25+00.00 "S-2-A"

END INCIDENTAL
CONSTRUCTION
STA. 32+20.84 "S-2-A"

BEGIN INCIDENTAL
CONSTRUCTION
STA. 19+93.00 "S-2-A"

LINE "S-2-A"

LINE "S-2-A"

+06 "S-2-A"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

END CONSTRUCTION
STA. 29+30.76 "S-2-A"

+01 "S-2-A"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

BEGIN CONSTRUCTION
STA. 22+64.75 "S-2-A"

25+00

25+00

+36 "FRN2"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

LINE "FRS2"

LINE "FRN2"

+75 "FRS2"
TEMP. MOD. CHECK DAM

LINE "PR-A"

+65 "FRN2"
TEMP. MOD. CHECK DAM
W/ GRAVEL RING &
4.5 TONS OF REVETMENT
RIPRAP, SEE DETAIL

TEMP. SEDIMENTATION BASIN NE
34.33 ACRES OF DRAINAGE AREA
SEE DETAIL

+00 "FRS2"
TEMP. MOD. CHECK DAM

LINE "A"

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—SF—	TEMPORARY SILT FENCE
—D—	TEMPORARY PERIMETER DIVERSION
	TEMP. MOD. CHECK DAM W/ GRAVEL RING
	TEMP. MOD. CHECK DAM
	TEMP. SEDIMENT TRAP
	DITCH INLET PROTECTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

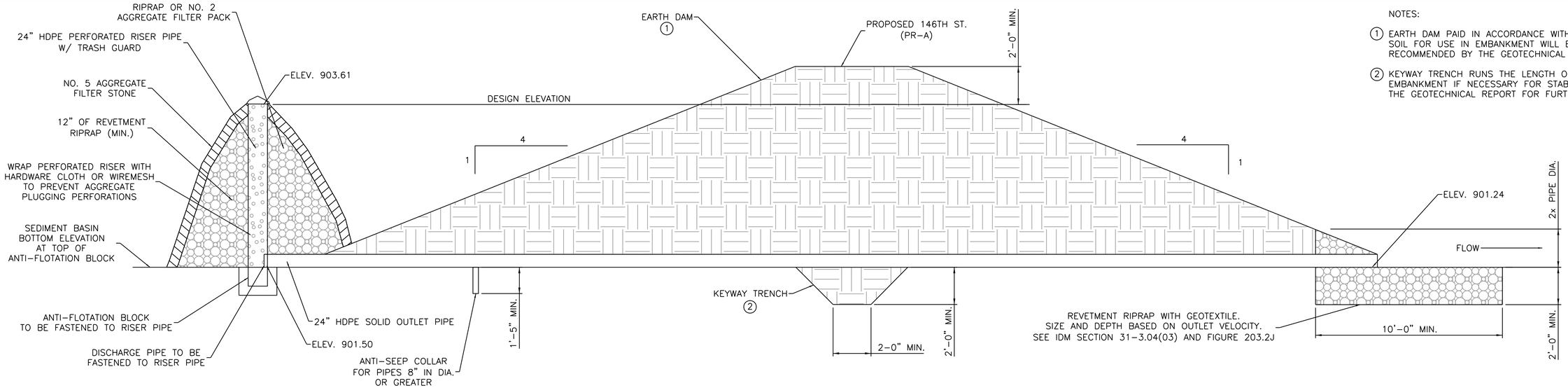
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEET
LINE "S-2-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	65 of 148
CONTRACT	PROJECT
R-38240	1401702

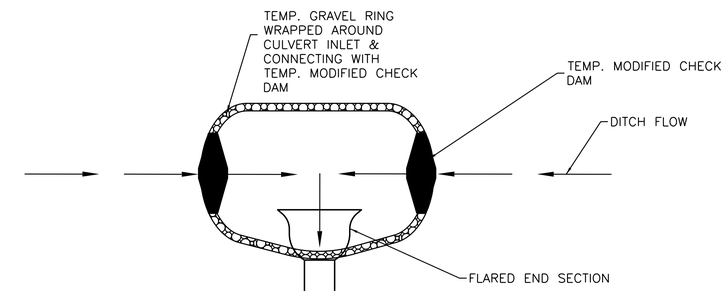


NOTES:

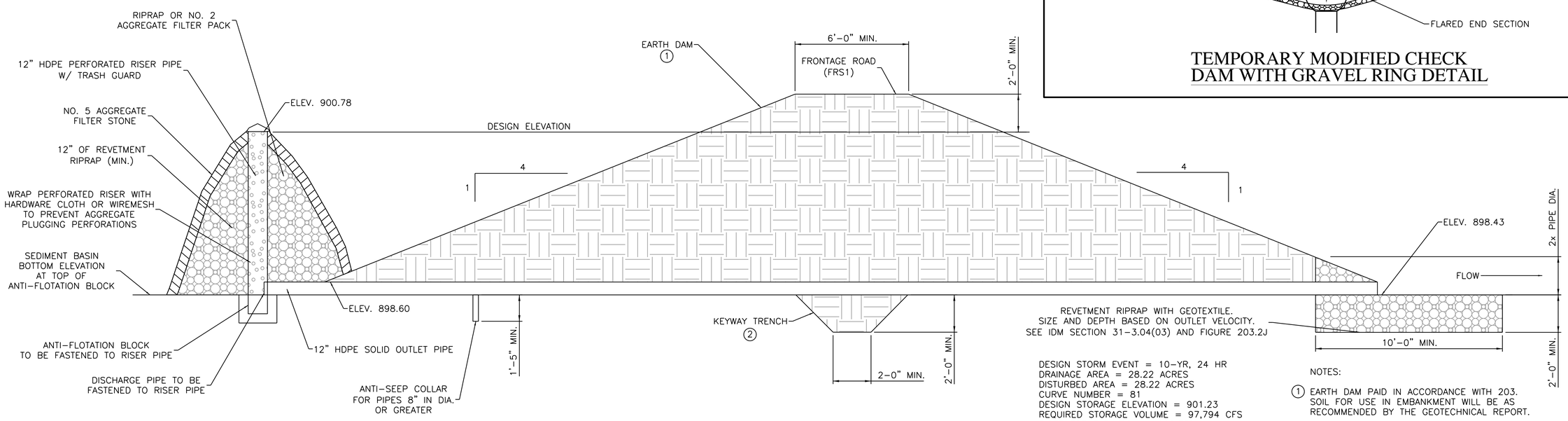
1. EARTH DAM PAID IN ACCORDANCE WITH 203. SOIL FOR USE IN EMBANKMENT WILL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT.
2. KEYWAY TRENCH RUNS THE LENGTH OF THE EMBANKMENT IF NECESSARY FOR STABILITY. SEE THE GEOTECHNICAL REPORT FOR FURTHER GUIDANCE.

DESIGN STORM EVENT = 10-YR, 24 HR
DRAINAGE AREA = 34.33 ACRES
DISTURBED AREA = 11.51 ACRES
DESIGN STORAGE ELEVATION = 904.00
REQUIRED STORAGE VOLUME = 99,471 CFS
RISER TOP ELEVATION = 903.61'
OVERFLOW ELEVATION = 907.49'
OVERFLOW WIDTH = 101.3'

SEDIMENT BASIN DETAIL - NE



TEMPORARY MODIFIED CHECK DAM WITH GRAVEL RING DETAIL



DESIGN STORM EVENT = 10-YR, 24 HR
DRAINAGE AREA = 28.22 ACRES
DISTURBED AREA = 28.22 ACRES
CURVE NUMBER = 81
DESIGN STORAGE ELEVATION = 901.23
REQUIRED STORAGE VOLUME = 97,794 CFS
RISER TOP ELEVATION = 900.78'
OVERFLOW ELEVATION = 904.00'
OVERFLOW WIDTH = 30'

NOTES:

1. EARTH DAM PAID IN ACCORDANCE WITH 203. SOIL FOR USE IN EMBANKMENT WILL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT.
2. KEYWAY TRENCH RUNS THE LENGTH OF THE EMBANKMENT IF NECESSARY FOR STABILITY. SEE THE GEOTECHNICAL REPORT FOR FURTHER GUIDANCE.

SEDIMENT BASIN DETAIL - SW

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

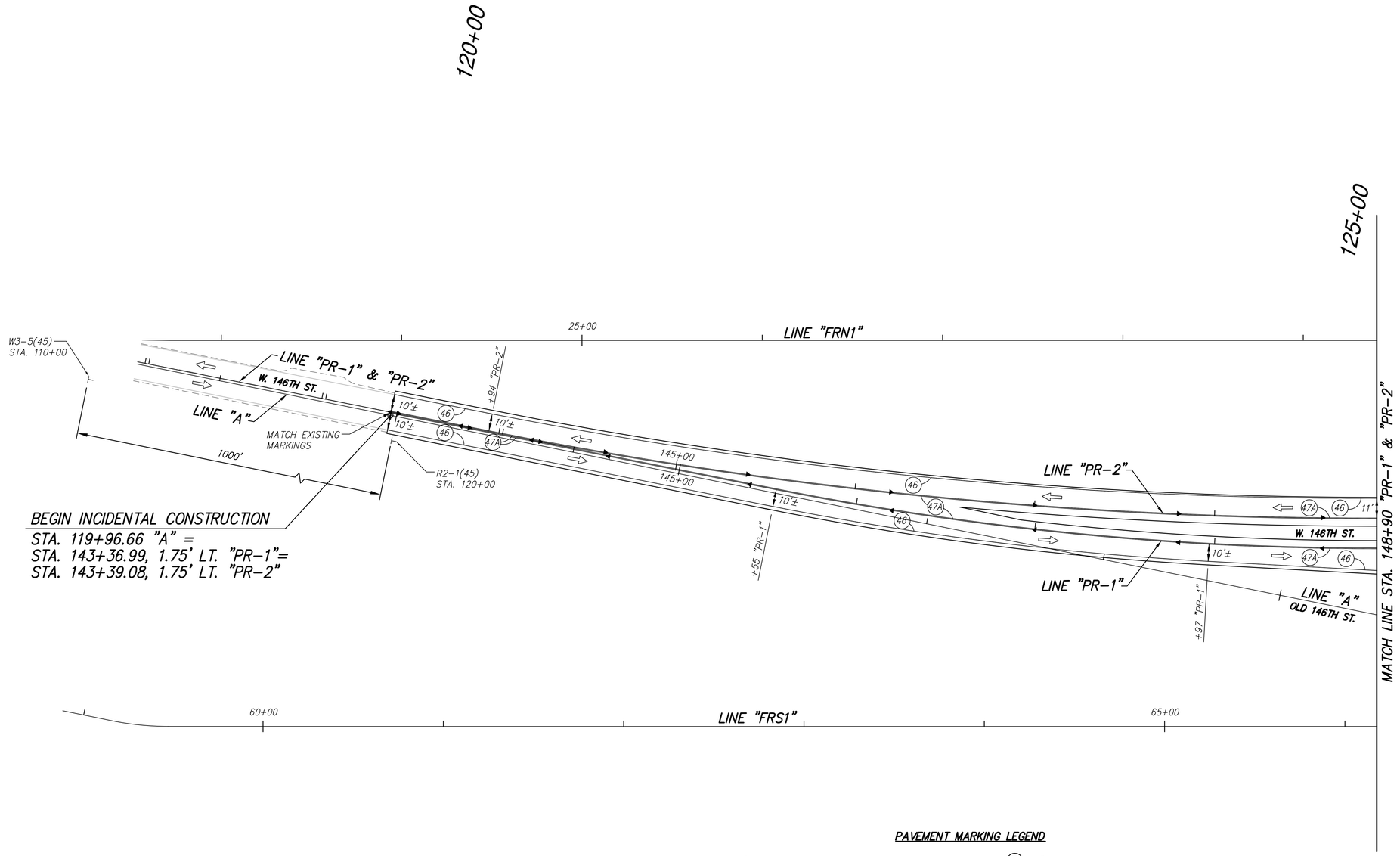
DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
NOT TO SCALE	
VERTICAL SCALE	DESIGNATION
	1401702

SURVEY BOOK	SHEETS
	66 of 148
CONTRACT	PROJECT
R-38240	1401702



BEGIN INCIDENTAL CONSTRUCTION
STA. 119+96.66 "A" =
STA. 143+36.99, 1.75' LT. "PR-1"=
STA. 143+39.08, 1.75' LT. "PR-2"

PAVEMENT MARKING LEGEND

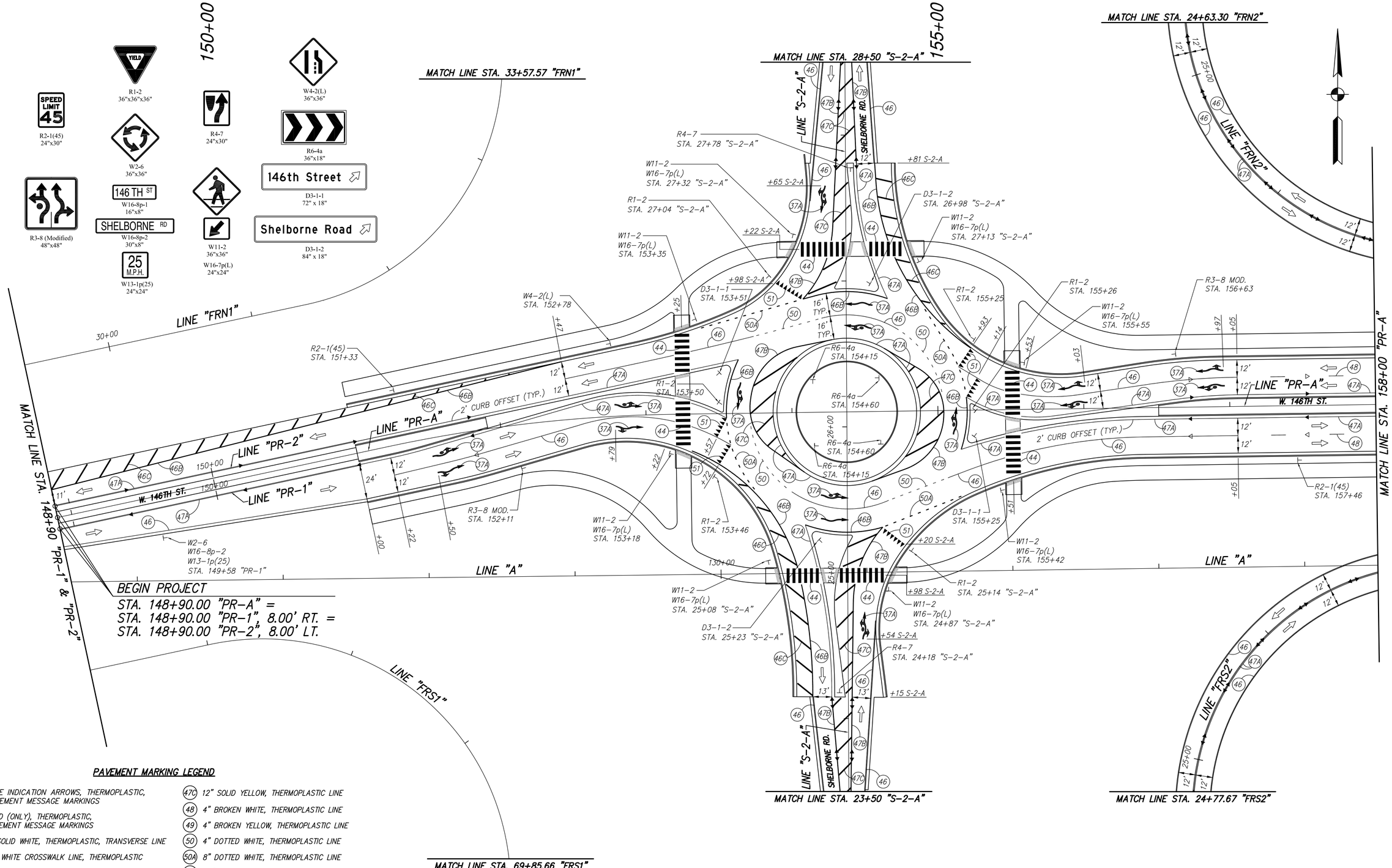
- 37A — LANE INDICATION ARROWS, THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- 37B — WORD (ONLY), THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- 38A — 8" SOLID WHITE, THERMOPLASTIC, TRANSVERSE LINE
- 44 — 24" WHITE CROSSWALK LINE, THERMOPLASTIC
- 45 — 24" WHITE STOP LINE, THERMOPLASTIC
- 46 — 4" SOLID WHITE, THERMOPLASTIC LINE
- 46B — 8" SOLID WHITE, THERMOPLASTIC LINE
- 46C — 12" SOLID WHITE, THERMOPLASTIC LINE
- 47A — 4" SOLID YELLOW, THERMOPLASTIC LINE
- 47B — 8" SOLID YELLOW, THERMOPLASTIC LINE
- 47C — 12" SOLID YELLOW, THERMOPLASTIC LINE
- 48 — 4" BROKEN WHITE, THERMOPLASTIC LINE
- 49 — 4" BROKEN YELLOW, THERMOPLASTIC LINE
- 50 — 4" DOTTED WHITE, THERMOPLASTIC LINE
- 50A — 8" DOTTED WHITE, THERMOPLASTIC LINE
- 51 — 27" SOLID WHITE, YIELD, THERMOPLASTIC LINE
- ◁ — ONE-WAY WHITE SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◀ — ONE-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ↔ — TWO-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (40' SPACING)

W3-5(45)
36"x36"

R2-1(45)
24"x30"

NOTE
ALL SIGNS AND PAVEMENT MARKINGS DESCRIBED FROM LINE "A" UNLESS OTHERWISE NOTED.

Stage 3 Plans	RECOMMENDED FOR APPROVAL ____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 30' / VERTICAL SCALE N/A / BRIDGE FILE / DESIGNATION 1401702
	DESIGNED: T.F.S. / DRAWN: J.P.H. / CHECKED: J.L.B. / CHECKED: T.F.S.	PAVEMENT MARKINGS AND SIGNING LINE "A"	SURVEY BOOK / SHEETS 67 of 148 / CONTRACT R-38240 / PROJECT 1401702

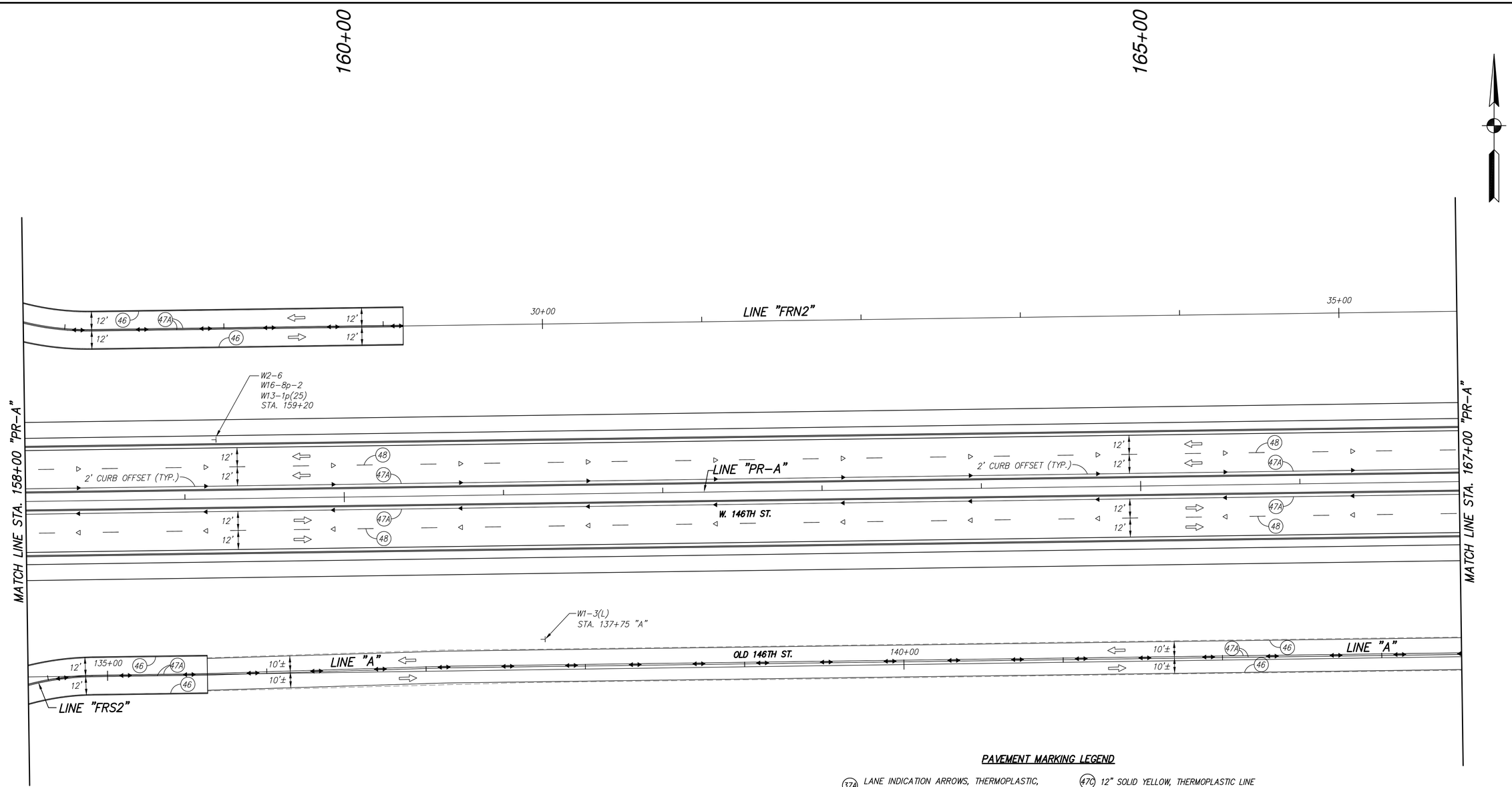


PAVEMENT MARKING LEGEND

- (37A) LANE INDICATION ARROWS, THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (37B) WORD (ONLY), THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (38A) 8" SOLID WHITE, THERMOPLASTIC, TRANSVERSE LINE
- (44) 24" WHITE CROSSWALK LINE, THERMOPLASTIC
- (45) 24" WHITE STOP LINE, THERMOPLASTIC
- (46) 4" SOLID WHITE, THERMOPLASTIC LINE
- (46B) 8" SOLID WHITE, THERMOPLASTIC LINE
- (46C) 12" SOLID WHITE, THERMOPLASTIC LINE
- (47A) 4" SOLID YELLOW, THERMOPLASTIC LINE
- (47B) 8" SOLID YELLOW, THERMOPLASTIC LINE
- (47C) 12" SOLID YELLOW, THERMOPLASTIC LINE
- (48) 4" BROKEN WHITE, THERMOPLASTIC LINE
- (49) 4" BROKEN YELLOW, THERMOPLASTIC LINE
- (50) 4" DOTTED WHITE, THERMOPLASTIC LINE
- (50A) 8" DOTTED WHITE, THERMOPLASTIC LINE
- (51) 27" SOLID WHITE, YIELD, THERMOPLASTIC LINE
- ◁ ONE-WAY WHITE SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◀ ONE-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ↔ TWO-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (40' SPACING)

NOTE
ALL SIGNS AND PAVEMENT MARKINGS DESCRIBED FROM LINE "PR-A" UNLESS OTHERWISE NOTED.

Stage 3 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 30' / BRIDGE FILE
	DESIGNED: T.F.S. / DRAWN: J.P.H.	PAVEMENT MARKINGS AND SIGNING LINE "PR-A"	VERTICAL SCALE N/A / DESIGNATION 1401702
	CHECKED: J.L.B. / CHECKED: T.F.S.		SURVEY BOOK / SHEETS 68 of 148
			CONTRACT R-38240 / PROJECT 1401702

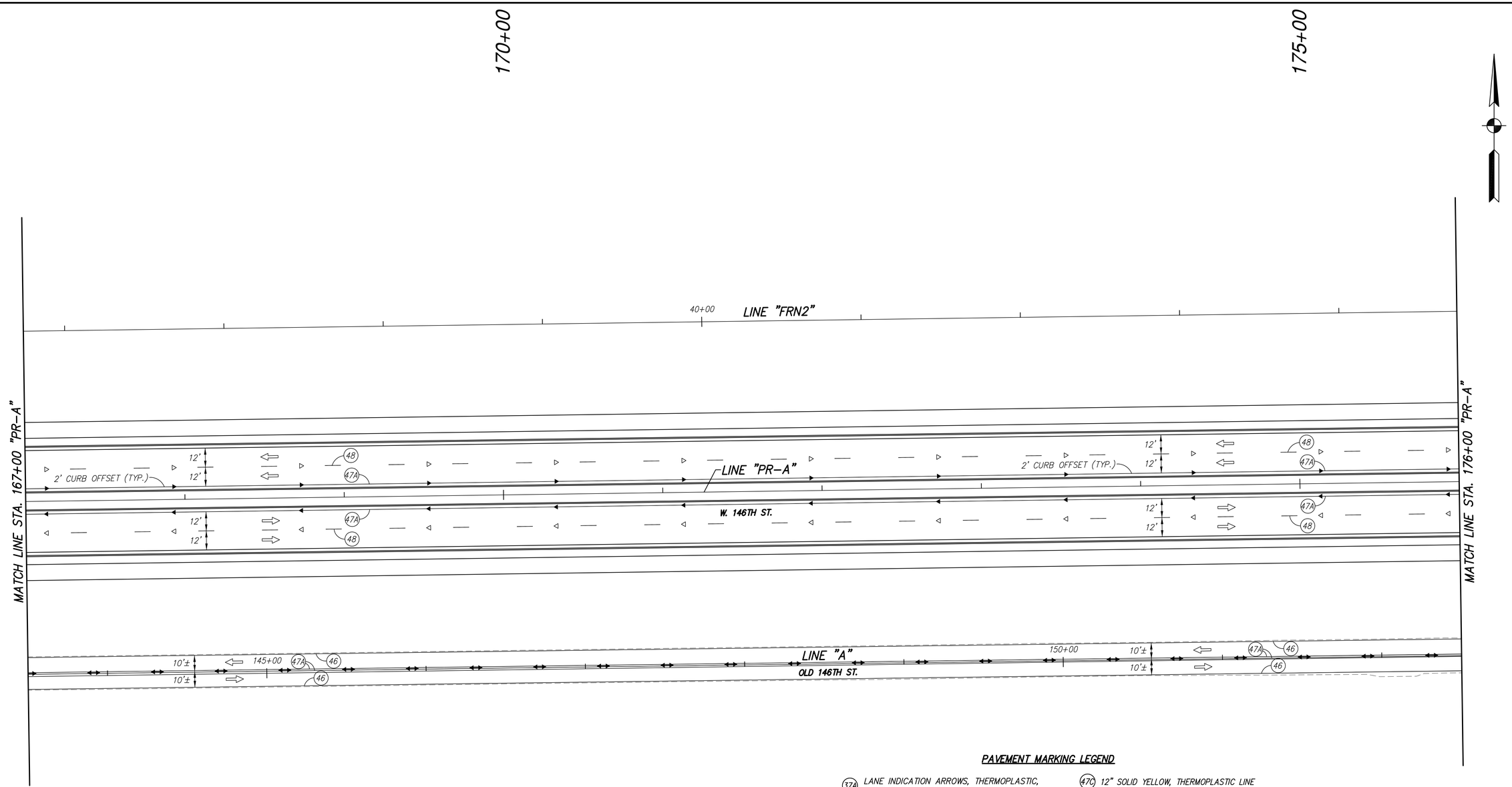


NOTE
ALL SIGNS AND PAVEMENT MARKINGS DESCRIBED FROM LINE "PR-A" UNLESS OTHERWISE NOTED.

PAVEMENT MARKING LEGEND

- (37A) LANE INDICATION ARROWS, THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (37B) WORD (ONLY), THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (38A) 8" SOLID WHITE, THERMOPLASTIC, TRANSVERSE LINE
- (44) 24" WHITE CROSSWALK LINE, THERMOPLASTIC
- (45) 24" WHITE STOP LINE, THERMOPLASTIC
- (46) 4" SOLID WHITE, THERMOPLASTIC LINE
- (46B) 8" SOLID WHITE, THERMOPLASTIC LINE
- (46C) 12" SOLID WHITE, THERMOPLASTIC LINE
- (47A) 4" SOLID YELLOW, THERMOPLASTIC LINE
- (47B) 8" SOLID YELLOW, THERMOPLASTIC LINE
- (47C) 12" SOLID YELLOW, THERMOPLASTIC LINE
- (48) 4" BROKEN WHITE, THERMOPLASTIC LINE
- (49) 4" BROKEN YELLOW, THERMOPLASTIC LINE
- (50) 4" DOTTED WHITE, THERMOPLASTIC LINE
- (50A) 8" DOTTED WHITE, THERMOPLASTIC LINE
- (51) 27" SOLID WHITE, YIELD, THERMOPLASTIC LINE
- ◁ ONE-WAY WHITE SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◀ ONE-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◀▶ TWO-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (40' SPACING)

Stage 3 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 30' / BRIDGE FILE
	DESIGNED: T.F.S. / DRAWN: J.P.H.	PAVEMENT MARKINGS AND SIGNING LINE "PR-A"	VERTICAL SCALE N/A / DESIGNATION 1401702
	CHECKED: J.L.B. / CHECKED: T.F.S.		SURVEY BOOK / SHEETS 69 of 148
			CONTRACT R-38240 / PROJECT 1401702

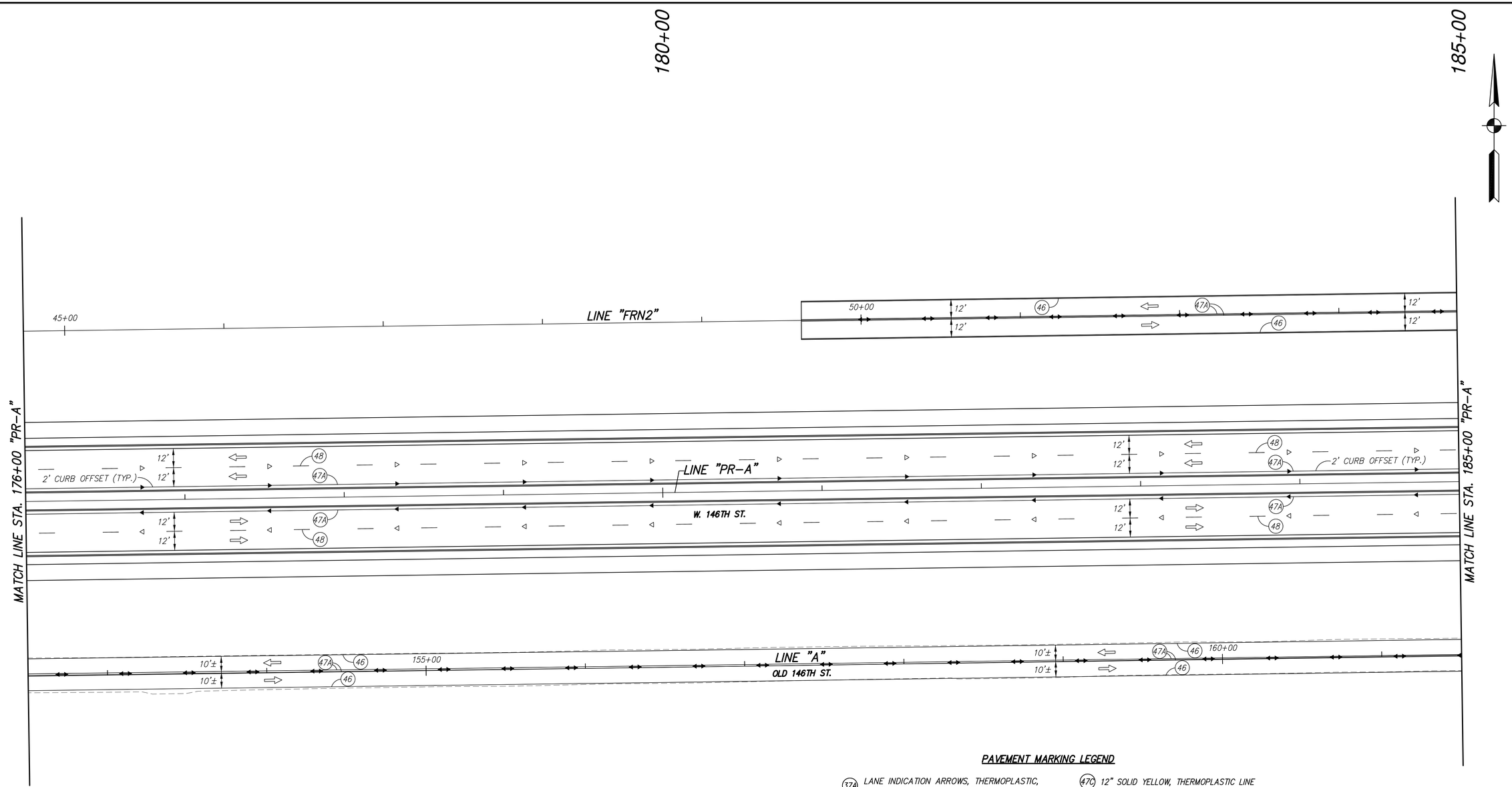


PAVEMENT MARKING LEGEND

- (37A) LANE INDICATION ARROWS, THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (37B) WORD (ONLY), THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (38A) 8" SOLID WHITE, THERMOPLASTIC, TRANSVERSE LINE
- (44) 24" WHITE CROSSWALK LINE, THERMOPLASTIC
- (45) 24" WHITE STOP LINE, THERMOPLASTIC
- (46) 4" SOLID WHITE, THERMOPLASTIC LINE
- (46B) 8" SOLID WHITE, THERMOPLASTIC LINE
- (46C) 12" SOLID WHITE, THERMOPLASTIC LINE
- (47A) 4" SOLID YELLOW, THERMOPLASTIC LINE
- (47B) 8" SOLID YELLOW, THERMOPLASTIC LINE
- (47C) 12" SOLID YELLOW, THERMOPLASTIC LINE
- (48) 4" BROKEN WHITE, THERMOPLASTIC LINE
- (49) 4" BROKEN YELLOW, THERMOPLASTIC LINE
- (50) 4" DOTTED WHITE, THERMOPLASTIC LINE
- (50A) 8" DOTTED WHITE, THERMOPLASTIC LINE
- (51) 27" SOLID WHITE, YIELD, THERMOPLASTIC LINE
- ◁ ONE-WAY WHITE SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◀ ONE-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◀▶ TWO-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (40' SPACING)

NOTE
ALL SIGNS AND PAVEMENT MARKINGS DESCRIBED FROM LINE "PR-A" UNLESS OTHERWISE NOTED.

Stage 3 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 30'	BRIDGE FILE
				VERTICAL SCALE N/A	DESIGNATION 1401702
	DESIGNED: T.F.S.	DRAWN: J.P.H.	PAVEMENT MARKINGS AND SIGNING LINE "PR-A"	SURVEY BOOK	SHEETS 70 of 148
	CHECKED: J.L.B.	CHECKED: T.F.S.		CONTRACT R-38240	PROJECT 1401702



PAVEMENT MARKING LEGEND

- (37A) LANE INDICATION ARROWS, THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (37B) WORD (ONLY), THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (38A) 8" SOLID WHITE, THERMOPLASTIC, TRANSVERSE LINE
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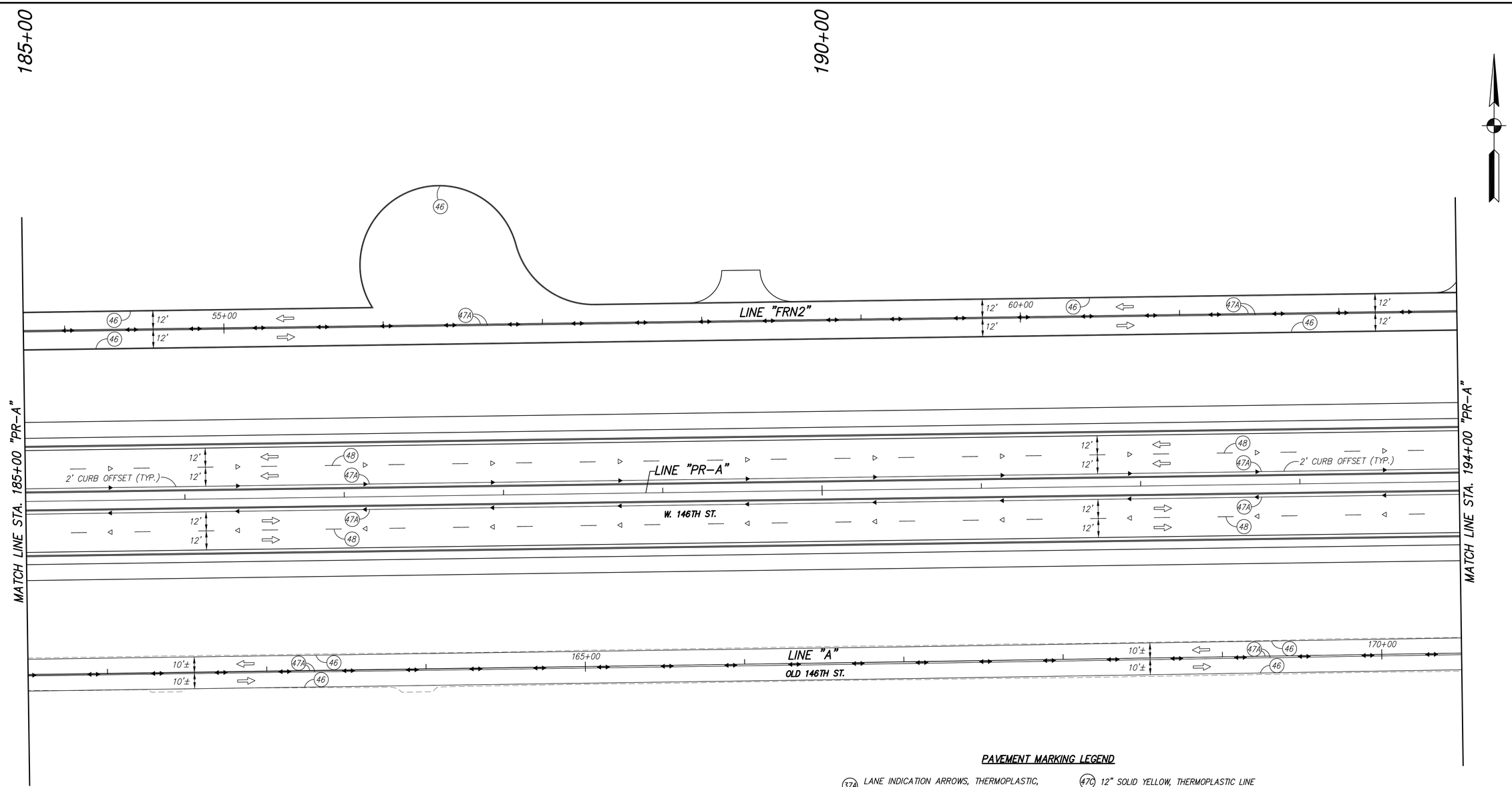
- (45) 24" WHITE STOP LINE, THERMOPLASTIC
- (46) 4" SOLID WHITE, THERMOPLASTIC LINE
- (46B) 8" SOLID WHITE, THERMOPLASTIC LINE
- (46C) 12" SOLID WHITE, THERMOPLASTIC LINE
- (47A) 4" SOLID YELLOW, THERMOPLASTIC LINE
- (47B) 8" SOLID YELLOW, THERMOPLASTIC LINE
- (47C) 12" SOLID YELLOW, THERMOPLASTIC LINE
- (48) 4" BROKEN WHITE, THERMOPLASTIC LINE
- (49) 4" BROKEN YELLOW, THERMOPLASTIC LINE
- (50) 4" DOTTED WHITE, THERMOPLASTIC LINE
- (50A) 8" DOTTED WHITE, THERMOPLASTIC LINE
- (51) 27" SOLID WHITE, YIELD, THERMOPLASTIC LINE
- △ ONE-WAY WHITE SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◄ ONE-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◄► TWO-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (40' SPACING)

NOTE
ALL SIGNS AND PAVEMENT MARKINGS DESCRIBED FROM LINE "PR-A" UNLESS OTHERWISE NOTED.

Stage 3 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 30'	BRIDGE FILE
				VERTICAL SCALE N/A	DESIGNATION 1401702
	DESIGNED: T.F.S.	DRAWN: J.P.H.	PAVEMENT MARKINGS AND SIGNING LINE "PR-A"	SURVEY BOOK	SHEETS 71 of 148
	CHECKED: J.L.B.	CHECKED: T.F.S.		CONTRACT R-38240	PROJECT 1401702



PAVEMENT MARKING LEGEND

- (37A) LANE INDICATION ARROWS, THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (37B) WORD (ONLY), THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (38A) 8" SOLID WHITE, THERMOPLASTIC, TRANSVERSE LINE
- (44) 24" WHITE CROSSWALK LINE, THERMOPLASTIC
- (45) 24" WHITE STOP LINE, THERMOPLASTIC
- (46) 4" SOLID WHITE, THERMOPLASTIC LINE
- (46B) 8" SOLID WHITE, THERMOPLASTIC LINE
- (46C) 12" SOLID WHITE, THERMOPLASTIC LINE
- (47A) 4" SOLID YELLOW, THERMOPLASTIC LINE
- (47B) 8" SOLID YELLOW, THERMOPLASTIC LINE
- (47C) 12" SOLID YELLOW, THERMOPLASTIC LINE
- (48) 4" BROKEN WHITE, THERMOPLASTIC LINE
- (49) 4" BROKEN YELLOW, THERMOPLASTIC LINE
- (50) 4" DOTTED WHITE, THERMOPLASTIC LINE
- (50A) 8" DOTTED WHITE, THERMOPLASTIC LINE
- (51) 27" SOLID WHITE, YIELD, THERMOPLASTIC LINE
- ◁ ONE-WAY WHITE SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◀ ONE-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◀▶ TWO-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (40' SPACING)

NOTE
ALL SIGNS AND PAVEMENT MARKINGS DESCRIBED FROM LINE "PR-A" UNLESS OTHERWISE NOTED.

Stage 3 Plans

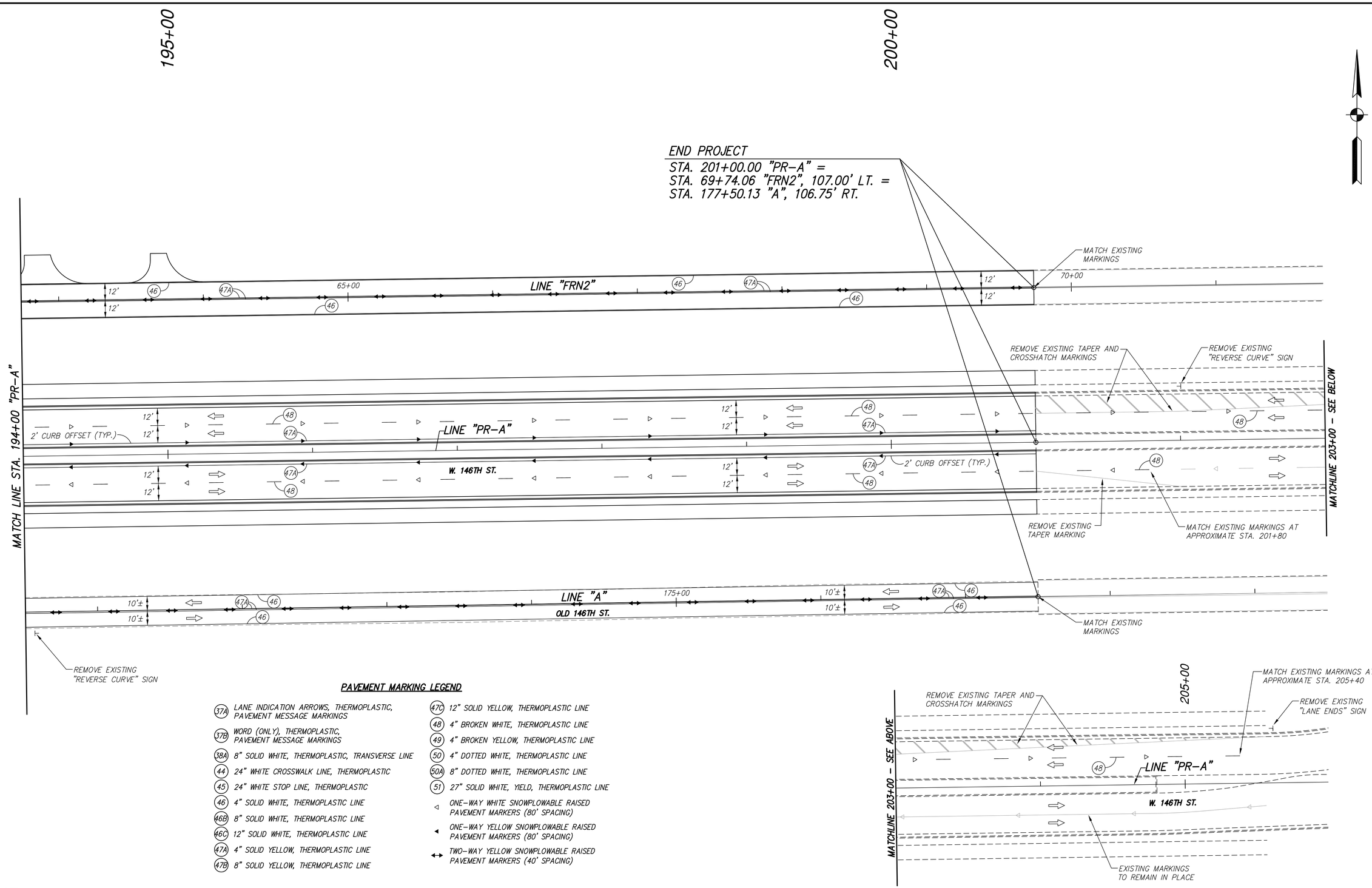
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: T.F.S. DRAWN: J.P.H.
CHECKED: J.L.B. CHECKED: T.F.S.

INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS AND SIGNING LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	72 of 148
CONTRACT	PROJECT
R-38240	1401702



PAVEMENT MARKING LEGEND

- (37A) LANE INDICATION ARROWS, THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (37B) WORD (ONLY), THERMOPLASTIC, PAVEMENT MESSAGE MARKINGS
- (38A) 8" SOLID WHITE, THERMOPLASTIC, TRANSVERSE LINE
- (44) 24" WHITE CROSSWALK LINE, THERMOPLASTIC
- (45) 24" WHITE STOP LINE, THERMOPLASTIC
- (46) 4" SOLID WHITE, THERMOPLASTIC LINE
- (46B) 8" SOLID WHITE, THERMOPLASTIC LINE
- (46C) 12" SOLID WHITE, THERMOPLASTIC LINE
- (47A) 4" SOLID YELLOW, THERMOPLASTIC LINE
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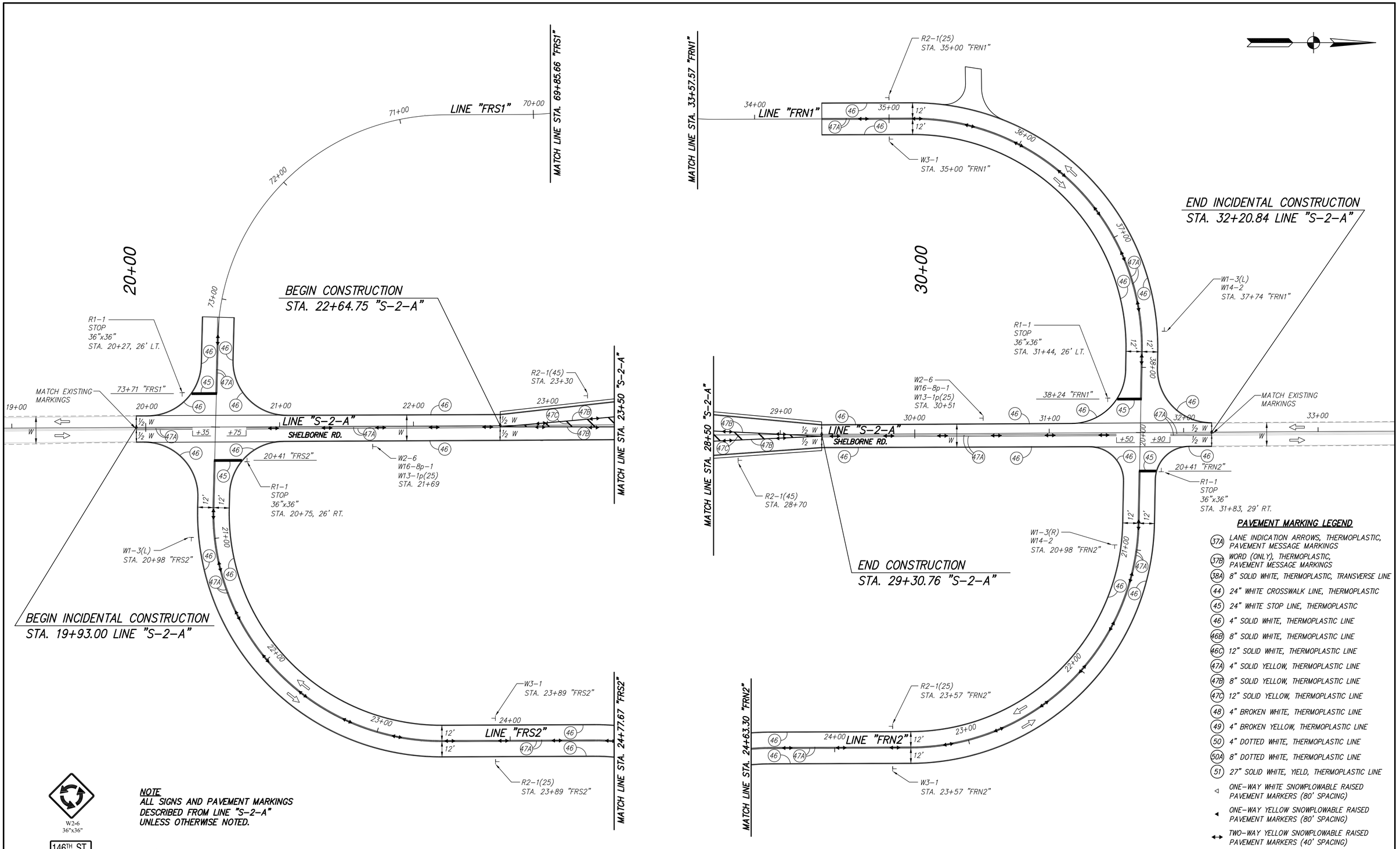
- (47C) 12" SOLID YELLOW, THERMOPLASTIC LINE
- (48) 4" BROKEN WHITE, THERMOPLASTIC LINE
- (49) 4" BROKEN YELLOW, THERMOPLASTIC LINE
- (50) 4" DOTTED WHITE, THERMOPLASTIC LINE
- (50A) 8" DOTTED WHITE, THERMOPLASTIC LINE
- (51) 27" SOLID WHITE, YIELD, THERMOPLASTIC LINE
- ◁ ONE-WAY WHITE SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ◀ ONE-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (80' SPACING)
- ↔ TWO-WAY YELLOW SNOWPLOWABLE RAISED PAVEMENT MARKERS (40' SPACING)

NOTE
ALL SIGNS AND PAVEMENT MARKINGS DESCRIBED FROM LINE "PR-A" UNLESS OTHERWISE NOTED.

Stage 3 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 30'	BRIDGE FILE
			VERTICAL SCALE N/A	DESIGNATION 1401702
	DESIGNED: T.F.S. / DRAWN: J.P.H.	PAVEMENT MARKINGS AND SIGNING LINE "PR-A"	SURVEY BOOK	SHEETS 73 of 148
	CHECKED: J.L.B. / CHECKED: T.F.S.		CONTRACT R-38240	PROJECT 1401702



NOTE
ALL SIGNS AND PAVEMENT MARKINGS DESCRIBED FROM LINE "S-2-A" UNLESS OTHERWISE NOTED.

Stage 3 Plans	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1" = 30' / BRIDGE FILE
	DESIGNED: T.F.S. / DRAWN: J.P.H.	PAVEMENT MARKINGS AND SIGNING LINE "S-2-A"	VERTICAL SCALE: N/A / DESIGNATION: 1401702
	CHECKED: J.L.B. / CHECKED: T.F.S.		SURVEY BOOK / SHEETS: 74 of 148
			CONTRACT: R-38240 / PROJECT: 1401702

LUMINAIRE POLE SUMMARY POLE

Luminaire Number:		1	2	3	4	5	6	7	8
Luminaire Type:		C	C	C	C	C	C	C	C
Circuite No.		A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1
Circuit Connection (R B)		R	B	R	B	R	B	R	B
Connection Type (1 OR 2)		1	2	2	2	2	2	2	1
Station		153+13.0	153+35.3	153+95.6	155+00.0	155+61.8	154+40.0	154+72.3	153+77.6
Side		RT.	LT.	LT.	LT.	LT.	RT.	RT.	RT.
Foundation Offset from Line "PR-A"	ft.	30.0	71.5	120.8	93.0	36.7	62.4	123.0	101.6
Pole Setback From Edge of Pavement	ft.	12	12	12	12	12	12	12	12
Top of Foundation Elevation with Respect to Edge of Pavement (Fdn. Elev. Shall Match Walk)	ft.	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Effective Mounting Height (EMH)	ft.	30	30	30	30	30	30	30	30
Luminaire Overhang (+) or Setback (-) from Edge of Pavement	ft.	-12	-12	-12	-12	-12	-12	-12	-12
Pole Base Type		AN	AN	AN	AN	AN	AN	AN	AN

Luminaire Type: C = Conventional

Circuit Connection: R = Red
B = Black

Pole Base: AN = Anchor Base

Design Notes:

1. All Luminaire Poles shall be located in the field and approved by the Engineer prior to the ordering of any luminaire standards or placement of any foundations.
2. No Luminaire foundations or Handholes shall be placed in a sidewalk ramp or sidewalk/path.
3. All Luminaires are to be aimed perpendicular to the curb.
4. All lighting standard locations are described from Line "PR-A".
5. The Service Point should be located near a utility pole in order to minimize service conductor costs.

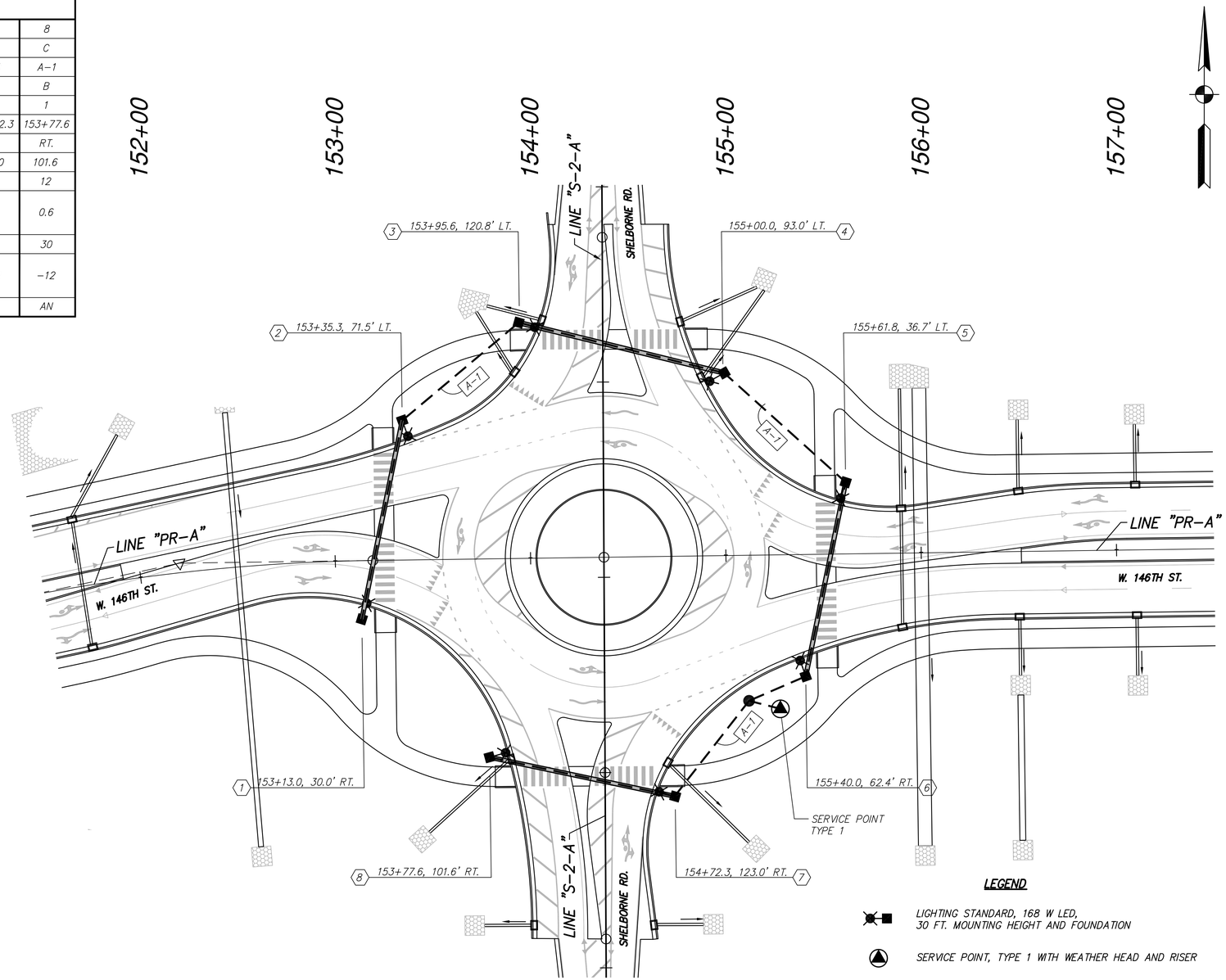
LUMINAIRE DESIGN DATA TABLE

Conventional or Decorative	CONVENTIONAL
Lamp Type	168 W LED
Luminaire Classification (IES)	FC IV HOUSE SIDE SHIELD
Holophane Photometric Curve	MONGOOSE, LED: MGLED_4_4K_AX_F_L_X_X.IES (WITH 4 COBS, 4,000K COLOR) FINISH GREY
Voltage	120V/240V
Initial Lamp Lumens (LL)	14,508
Average Maintained Illmination (Eh)	2.0 MIN. AVG. IN CROSSWALKS – 1.3 MIN. AVG. IN ROADWAY
Lamp Lumen Depreciation Factor (LLD)	0.81
Luminaire Dirt Depreciation Factor (LDD)	0.90
Maintenance Factor (LLD x LDD)	0.78
Maintained Lumens (LL x MF)	11,316
Uniformity Ratio (Avg./Min)	2.0:1 IN CROSSWALK – 2.2:1 IN ROADWAY
Luminaire Load Operating Amps	1.4
Nominal Mounting Height (M.H.) (Ft.)	30
Mounting Style	VERTICAL TENON 2 3/8" DIA. x 3" HIGH TO ACCEPT FIXTURE (10' MAST ARM)
Pole Style	INDOT STANDARD WITH ANCHOR BASE (GREEN IN COLOR)

SERVICE AMPERAGE TABLE

SERVICE POINT	SERVICE TYPE	VOLTAGE	MAIN BREAKER	CIRCUIT	BRANCH CIRCUIT COLOR	BRANCH CIRCUIT DESIGN LOAD	BRANCH CIRCUIT BREAKER	VOLTAGE DROP
A	2	120V/240V	100 AMP	A-1	RED	5.6	30 AMPS	0.7%
					BLACK	5.6	30 AMPS	0.6%

VOLTAGE DROP CONFORMS TO 10% MAX. DROP REQUIREMENTS



PER THE REQUEST OF HAMILTON COUNTY HIGHWAY DEPARTMENT, THE LIGHTING DESIGN LAYOUT SHALL MATCH THE LIGHTING LAYOUT OF THE TWO ROUNDABOUTS EAST OF SHELBORNE RD. (TOWN RD. AND DITCH RD.). ILLUMINATING THE CROSSWALKS AND THE AREA WITHIN THE ROUNDABOUT, NOT THE APPROACHES.

LEGEND

- LIGHTING STANDARD, 168 W LED, 30 FT. MOUNTING HEIGHT AND FOUNDATION
- SERVICE POINT, TYPE 1 WITH WEATHER HEAD AND RISER
- WIRE, NO. 4, COPPER, IN PLASTIC DUCT, IN TRENCH, 4 I/C
- WIRE, NO. 4, COPPER, IN PLASTIC DUCT, IN CONDUIT 1C
- A-1 LIGHTING CIRCUIT NUMBER
- HANDHOLE, LIGHTING
- X LUMINAIRE NUMBER

Stage 3 Plans

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: T.F.S. DRAWN: G.S.H.
CHECKED: D.W.C. CHECKED: T.F.S.

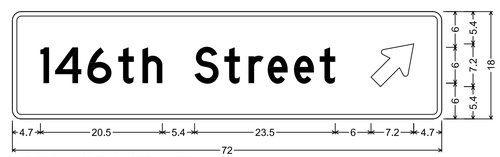
INDIANA DEPARTMENT OF TRANSPORTATION

146TH ST. AND SHELBORNE RD.
LINE "PR-A"
LIGHTING DETAIL

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	75 of 148
CONTRACT	PROJECT
R-38240	1401702

LINE	SIGN LOCATION	SIDE	SIGN CODE	MESSAGE	SIGN SIZE	0.080	0.100	0.125	SQ. POST TYPE 1	SQ. POST TYPE 2	COMMENT
PR-1	149+58.0	RT.	W2-6	CIRCULAR INTERSECTION	36 X 36		9.00		14.0		
PR-1	149+58.0	RT.	W16-8p-2	ADVANCE ST. NAME (SHELBORNE RD.)	30 X 8	1.67					
PR-1	149+58.0	RT.	W13-1p(25)	ADVISORY SPEED 25 M.P.H.	24 X 24	4.00					
PR-1	151+33.0	LT.	R2-1(45)	SPEED LIMIT 45 M.P.H.	24 X 30	5.00			10.5		
PR-1	152+11.0	RT.	R3-8 MOD	ADV. INTERSECTION LANE CONTROL	48 X 48		16.00		12.0		
PR-1	152+78.0	LT.	W4-2(L)	LANE ENDS	36 X 36		9.00		11.0		
PR-1	153+18.0	RT.	W11-2	PEDESTRIAN	36 X 36		9.00		13.0		
PR-1	153+18.0	RT.	W16-7p(L)	DOWNWARD DIAGONAL ARROW	24 X 24	4.00					
PR-1	153+35.0	LT.	W11-2	PEDESTRIAN	36 X 36		9.00		13.0		
PR-1	153+35.0	LT.	W16-7p(L)	DOWNWARD DIAGONAL ARROW	24 X 24	4.00					
PR-1	153+46.0	RT.	R1-2	YIELD	36 X 36 X 36		3.90		11.0		
PR-1	153+50.0	ISLAND	R1-2	YIELD	36 X 36 X 36		3.90		11.0		
PR-1	153+51.0	ISLAND	D3-1-1	ST. NAME WITH ARROW (146TH ST.)	72 x 18			9.00		2 @ 9.5	
PR-1	154+15.0	ISLAND	R6-4a	ROUNDABOUT DIRECTIONAL (3 CHEVRONS)	36 X 18		4.50		10.0		
PR-1	154+15.0	ISLAND	R6-4a	ROUNDABOUT DIRECTIONAL (3 CHEVRONS)	36 X 18		4.50		10.0		
PR-1	154+60.0	ISLAND	R6-4a	ROUNDABOUT DIRECTIONAL (3 CHEVRONS)	36 X 18		4.50		10.0		
PR-1	154+60.0	ISLAND	R6-4a	ROUNDABOUT DIRECTIONAL (3 CHEVRONS)	36 X 18		4.50		10.0		
PR-1	155+25.0	LT.	R1-2	YIELD	36 X 36 X 36		3.90		11.0		
PR-1	155+26.0	ISLAND	R1-2	YIELD	36 X 36 X 36		3.90		11.0		
PR-1	155+25.0	RT.	D3-1-1	ST. NAME WITH ARROW (146TH ST.)	72 x 18			9.00		2 @ 9.5	
PR-1	155+42.0	RT.	W11-2	PEDESTRIAN	36 X 36		9.00		13.0		
PR-1	155+42.0	RT.	W16-7p(L)	DOWNWARD DIAGONAL ARROW	24 X 24	4.00					
PR-1	155+55.0	LT.	W11-2	PEDESTRIAN	36 X 36		9.00		13.0		
PR-1	155+55.0	LT.	W16-7p(L)	DOWNWARD DIAGONAL ARROW	24 X 24	4.00					
PR-1	156+63.0	LT.	R3-8 MOD	ADV. INTERSECTION LANE CONTROL	48 X 48		16.00		12.0		
PR-1	157+46.0	RT.	R2-1(45)	SPEED LIMIT 45 M.P.H.	24 X 30	5.00			10.5		
PR-1	159+20.0	LT.	W2-6	CIRCULAR INTERSECTION	36 X 36		9.00		14.0		
PR-1	159+20.0	LT.	W16-8p-2	ADVANCE ST. NAME (SHELBORNE RD.)	30 X 8	1.67					
PR-1	159+20.0	LT.	W13-1p(25)	ADVISORY SPEED 25 M.P.H.	24 X 24	4.00					
S-2-A	20+27.0	LT.	R1-1	STOP	36 X 36		9.00		11.0		
S-2-A	20+75.0	RT.	R1-1	STOP	36 X 36		9.00		11.0		
S-2-A	21+69.0	RT.	W2-6	CIRCULAR INTERSECTION	36 X 36		9.00		14.0		
S-2-A	21+69.0	RT.	W16-8p-1	ADVANCE ST. NAME (146TH ST.)	18 X 8	1.00					
S-2-A	21+69.0	RT.	W13-1p(25)	ADVISORY SPEED 25 M.P.H.	24 X 24	4.00					
S-2-A	23+30.0	LT.	R2-1(45)	SPEED LIMIT 45 M.P.H.	24 X 30	5.00			10.5		
S-2-A	24+18.0	ISLAND	R4-7	KEEP RIGHT SYMBOL	24 X 30	5.00			10.5		
S-2-A	24+87.0	RT.	W11-2	PEDESTRIAN	36 X 36		9.00		13.0		
S-2-A	24+87.0	RT.	W16-7p(L)	DOWNWARD DIAGONAL ARROW	24 X 24	4.00					
S-2-A	25+08.0	LT.	W11-2	PEDESTRIAN	36 X 36		9.00		13.0		
S-2-A	25+08.0	LT.	W16-7p(L)	DOWNWARD DIAGONAL ARROW	24 X 24	4.00					
S-2-A	25+14.0	RT.	R1-2	YIELD	36 X 36 X 36		3.90		11.0		
S-2-A	25+23.0	ISLAND	D3-1-2	ST. NAME WITH ARROW (SHELBORNE RD.)	84 x 18			10.50		2 @ 9.5	
S-2-A	26+98.0	ISLAND	D3-1-2	ST. NAME WITH ARROW (SHELBORNE RD.)	84 x 18			10.50		2 @ 9.5	

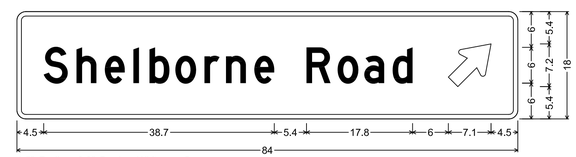
LINE	SIGN LOCATION	SIDE	SIGN CODE	MESSAGE	SIGN SIZE	0.080	0.100	0.125	SQ. POST TYPE 1	SQ. POST TYPE 2	COMMENT
S-2-A	27+04.0	LT	R1-2	YIELD	36 X 36 X 36		3.90		11.0		
S-2-A	27+13.0	RT.	W11-2	PEDESTRIAN	36 X 36		9.00		13.0		
		RT.	W16-7p(L)	DOWNWARD DIAGONAL ARROW	24 X 24	4.00					
S-2-A	27+32.0	LT.	W11-2	PEDESTRIAN	36 X 36		9.00		13.0		
S-2-A	27+32.0	LT.	W16-7p(L)	DOWNWARD DIAGONAL ARROW	24 X 24	4.00					
S-2-A	27+78.0	ISLAND	R4-7	KEEP RIGHT SYMBOL	24 X 30	5.00			10.5		
S-2-A	28+70.0	RT.	R2-1(45)	SPEED LIMIT 45 M.P.H.	24 X 30	5.00			10.5		
S-2-A	30+51.0	LT.	W2-6	CIRCULAR INTERSECTION	36 X 36		9.00		14.0		
S-2-A	30+51.0	LT.	W16-8p-1	ADVANCE ST. NAME (146TH ST.)	18 X 8	1.00					
S-2-A	30+51.0	LT.	W13-1p(25)	ADVISORY SPEED 25 M.P.H.	24 X 24	4.00					
S-2-A	31+44.0	LT.	R1-1	STOP	36 X 36		9.00		11.0		
S-2-A	31+83.0	RT.	R1-1	STOP	36 X 36		9.00		11.0		
FRS2	20+98.0	RT	W1-3(L)	REVERSE TURN (RT. /LT.)	36 X 36		9.00		11.0		
FRS2	23+89.0	LT.	W3-1	STOP AHEAD SYMBOL	36 X 36		9.00		11.0		
FRS2	23+89.0	RT.	R2-1(25)	SPEED LIMIT 25 M.P.H.	24 X 30	5.00			10.5		
A	110+00.0	RT.	W3-5(45)	REDUCED SPEED LIMIT AHEAD	36 X 36		9.00		11.0		
A	120+00.0	RT.	R2-1(45)	SPEED LIMIT 45 M.P.H.	24 X 30	5.00			10.5		
A	137+75.0	LT.	W1-3(L)	REVERSE TURN (LT. / RT.)	36 X 36		9.00		11.0		
FRN2	20+98.0	RT	W1-3(L)	REVERSE TURN (RT. /LT.)	36 X 36		9.00		14.0		
FRN2	20+98.0	RT	W14-2	NO OUTLET	36 X 36		9.00				
FRN2	23+57.0	RT.	R2-1(25)	SPEED LIMIT 25 M.P.H.	24 X 30	5.00			8.5		
FRN2	32+57.0	LT.	W3-1	STOP AHEAD SYMBOL	36 X 36		9.00		11.0		
FRN1	35+00.0	LT.	R2-1(25)	SPEED LIMIT 25 M.P.H.	24 X 30	5.00			10.5		
FRN1	35+00.0	RT.	W3-1	STOP AHEAD SYMBOL	36 X 36		9.00		11.0		
FRN1	37+74.0	LT.	W1-3(L)	REVERSE TURN (RT. /LT.)	36 X 36		9.00		14.0		
FRN1	37+74.0	LT.	W14-2	NO OUTLET	36 X 36		9.00				
				TOTALS		100.67	320.84	39.00	542.0	38.0	



1.5" Radius, 0.8" Border, White on Green;
[146th Street] D 90% spacing; Standard Arrow Custom 9.0" X 6.0" 45°;
Table of letter and object lefts.

1	4	6	t	h	S	t	r	e	e	t		
4.7	7.2	12.6	17.8	21.8	30.6	35.5	39.6	42.8	47.2	51.5		60.1

D3-1-1



1.5" Radius, 0.8" Border, White on Green;
[Shelborne Road] D 90% spacing; Standard Arrow Custom 9.0" X 6.0" 45°;
Table of letter and object lefts.

S	h	e	l	b	o	r	n	e	R	o	a	d		
4.5	10.0	14.7	19.5	22.2	26.6	31.5	35.1	39.8	48.6	53.8	58.3	63.0		72.4

D3-1-2

Ground Mount;
1.5" Radius, 0.4" Border, 0.4" Indent, Black on Yellow;
[146TH] B 95% spacing;
[ST] B;
Table of letter and object lefts.

1	4	6	T	H
2.1	3.5	6.0	8.3	10.3
	S	T		
	14.0	15.2		

W16-8p-1

Ground Mount;
1.5" Radius, 0.4" Border, 0.4" Indent, Black on Yellow;
[SHELBORNE] B 95% spacing;
[RD] B;
Table of letter and object lefts.

S	H	E	L	B	O	R	N	E
3.0	5.4	7.8	9.8	11.9	14.2	16.7	19.1	21.5
	R	D						
	25.0	26.2						

W16-8p-2

Stage 3 Plans

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: T.F.S. DRAWN: J.P.H.
CHECKED: J.L.B. CHECKED: T.F.S.

INDIANA
DEPARTMENT OF TRANSPORTATION

SIGN SUMMARY TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	76 of 148
CONTRACT	PROJECT
R-38240	1401702

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

LOCATION	LINE, THERMOPLASTIC								TRANSVERSE MARKINGS CROSSHATCH LINE		TRANSVERSE MARKINGS THERMOPLASTIC STOP LINE		TRANSVERSE MARKINGS THERMOPLASTIC YIELD LINE		TRANSVERSE MARKINGS CROSSWALK LINE		PAVEMENT MESSAGE THERMOPLASTIC LANE INDICATION ARROW (Per each Arrowhead)	PAVEMENT MESSAGE THERMOPLASTIC WORD "ONLY"	SNOWPLOWABLE RAISED PAVEMENT MARKERS	GROOVING FOR PAVEMENT MARKINGS	LINE, REMOVE	TRANSVERSE MARKING, REMOVE
	SOLID WHITE 4 in	SOLID YELLOW 4 in	SOLID WHITE 8 in	SOLID YELLOW 8 in	BROKEN WHITE 4 in	BROKEN YELLOW 4 in	DOTTED WHITE 4 in	DOTTED WHITE 8 in	SOLID WHITE 12 in	SOLID YELLOW 12 in	SOLID WHITE 24 in			SOLID WHITE 27 in	SOLID WHITE 6 in	SOLID WHITE 24 in						
	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft			ft	ft	ft	EACH	EACH	EACH	Lft	Lft	Lft
Incidental Construction PR-A																						
143+36.99 PR-1 to 148+90.00 PR-1	765	765																	12	1,530		
143+39.08 PR-2 to 148+90.00 PR-2	550	515	215						155										8	1,280		
Begin Project PR-A to Roundabout																						
148+90 PR-A to 152+47 PR-A Lt.		150	150						25										1	300		
152+47 PR-A to Outer Radius Of Roundabout Lt.	135	115						25												275		
148+90 PR-A to Outer Radius Of Roundabout Rt.	230	250	60																2	540		
151+50 PR-A Rt.																	4					
152+79 PR-A Rt.																	4					
153+25 PR-A Lt.																70						
153+25 PR-A Rt.																80						
153+57 PR-A Rt.														14								
153+72 PR-A Rt.														14								
Roundabout Markings																						
Outer Radius Lane Lines			195					45												240		
Middle Radius Lane Lines (Between Lanes)	125						70													195		
Inside Rad. Lane Lines (Incls. Hatched Gore Areas)		320		280					175											600		
153+64 PR-A Lt.																	2					
155+12 PR-A Rt.																	2					
25+36 S-2-A Lt.																	1					
25+52 S-2-A Lt.																	2					
26+68 S-2-A Rt.																	2					
26+84 S-2-A Rt.																	1					
Roundabout to End of Project PR-A																						
Outer Radius of Roundabout to 157+05 PR-A Lt.	185	180	60																2	425		
Outer Radius of Roundabout to 157+05 PR-A Rt.	190	180						60											2	430		
154+93 PR-A Lt.														14								
155+14 PR-A Lt.														14								
155+51 PR-A Lt.																70						
155+51 PR-A Rt.																80						
156+03 PR-A Lt.																	4					
156+97 PR-A Lt.																	4					
157+05 PR-A to 201+00 PR-A Lt.		4395			1100														110	5,495		
157+05 PR-A to 201+00 PR-A Rt.		4395			1100														110	5,495		
Incidental Construction S-2-A																						
19+93 to 22+64.75 S-2-A	440	465																	5	905		
Begin Construction S-2-A to Roundabout																						
22+64.75 to 24+15 S-2-A	305			305						90									8	610		
24+15 S-2-A to Outer Radius of Roundabout Lt.		105	140						120											245		
24+15 S-2-A to Outer Radius of Roundabout Rt.	55			105						100										160		
24+54 S-2-A Rt.																	3					
24+98 S-2-A Lt.																60						
24+98 S-2-A Rt.																80						
25+20 S-2-A Rt.														17								
Roundabout to End Construction S-2-A																						
Outer Radius of Roundabout to 27+81 S-2-A Lt.	30			85						95										115		
Outer Radius of Roundabout to 27+81 S-2-A Rt.		80	135						80											215		
26+98 S-2-A Lt.														20								
27+22 S-2-A Lt.																80						
27+22 S-2-A Rt.																60						
27+65 S-2-A Lt.																	3					
27+81 to 29+30.76 S-2-A	305			305						95									8	610		
Incidental Construction S-2-A																						
29+30.76 to 32+20.84 S-2-A	405	500																	6	905		
SUBTOTAL THIS SHEET	3,720	12,415	955	1,080	2,200	0	70	130	555	380	0	0	0	93	0	580	32	0	274	20,570	0	0

Stage 3 Plans

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: J.P.H. DRAWN: J.P.H.
CHECKED: J.L.B. CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
SUMMARY OF QUANTITIES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	77 of 148
CONTRACT	PROJECT
R-38240	1401702

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

LOCATION	LINE, THERMOPLASTIC								TRANSVERSE MARKINGS CROSSHATCH LINE		TRANSVERSE MARKINGS THERMOPLASTIC STOP LINE		TRANSVERSE MARKINGS THERMOPLASTIC YIELD LINE		TRANSVERSE MARKINGS CROSSWALK LINE		PAVEMENT MESSAGE THERMOPLASTIC LANE INDICATOR ARROW (Per each Arrowhead)	PAVEMENT MESSAGE THERMOPLASTIC WORD "ONLY"	SNOWPLOWABLE RAISED PAVEMENT MARKERS	GROOVING FOR PAVEMENT MARKINGS	LINE, REMOVE	TRANSVERSE MARKING, REMOVE
	SOLID WHITE 4 in	SOLID YELLOW 4 in	SOLID WHITE 8 in	SOLID YELLOW 8 in	BROKEN WHITE 4 in	BROKEN YELLOW 4 in	DOTTED WHITE 4 in	DOTTED WHITE 8 in	SOLID WHITE 12 in	SOLID YELLOW 12 in	SOLID WHITE 24 in			SOLID WHITE 27 in	SOLID WHITE 6 in	SOLID WHITE 24 in						
	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft			ft	ft	ft	EACH	EACH	EACH	Lft	Lft	Lft
Line FRN1																						
34+50 to 38+42 FRN1	830	750																	25	1,580		
38+24 FRN1 Rt.											18											
Line FRN2																						
20+23 to 29+13 FRN2	1,810	1,750																	22	3,560		
20+41 FRN2 Rt.											13											
49+62 to 69+74 FRN2	4,125	4,025																	50	8,150		
Line FRS1																						
73+13 to 73+88 FRS1	200	120																		320		
Line FRS1											20											
Line FRS2																						
20+28 to 69+88 FRS2	9,970	9,900																	123	19,870		
20+41 FRS2 Lt.											20											
Pavement Marking Extentions Beyond End of Project																						
201+00 to 205+40 PR-A Lt.					110														5	110	450	285
201+00 to 204+00 PR-A Rt.					25														1	25	100	
SUBTOTAL THIS SHEET	16,935	16,545	0	0	135	0	0	0	0	0	71	0	0	0	0	0	0	0	226	33,615	550	285
SUBTOTAL SHEET 1	3,720	12,415	955	1,080	2,200	0	70	130	555	380	0	0	0	93	0	580	32	0	274	20,570	0	0
TOTALS	20,655	28,960	955	1,080	2,335	0	70	130	555	380	71	0	0	93	0	580	32	0	500	54,185	550	285

Stage 3 Plans

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: J.P.H. DRAWN: J.P.H.
CHECKED: J.L.B. CHECKED: J.L.B.

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
SUMMARY OF QUANTITIES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1401702
SURVEY BOOK	SHEETS
	78 of 148
CONTRACT	PROJECT
R-38240	1401702

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH "W"	LENGTH "L"	DISTANCE BEYOND R/W LINE	RADII "R"	GRADE 1	GRADE 2	GRADE 3	AREA	EXCAVATION CUT	EXCAVATION FILL	HMA MATERIALS QC/QA HMA, 2, 64, SURFACE 9.5 MM #/SYD 165	QC/QA HMA, 3, 76, SURFACE 9.5 MM 165	QC/QA HMA, 3, 76, INTERM., 19.0 MM 275	QC/QA HMA, 3, 64, BASE, 19.0 MM 330	QC/QA HMA, 4, 76, INTERM, OG, 19.0 MM 250	QC/QA HMA, 3, 70, SURFACE, 9.5 MM 165	QC/QA HMA, 3, 70, INTERM., 19.0 MM 275	QC/QA HMA, 2, 64, SURFACE, 12.5 MM 220	QC/QA HMA, 2, 64, INTERM., 25 MM 440	HMA SURFACE, TYPE B 140	HMA INTERMEDIATE TYPE B 220	7" PCCP	ASPHALT FOR TACK COAT	BASE SEAL	1 1/2" MILLING	HMA FOR APPROACHES, TYPE B	SUBGRADE TREATMENT TYPE I	TYPE IB	TYPE II	TYPE III		COMPACTED AGGREGATE NO. 53 BASE 4"	6"	8"	9.5"	BITUMINIOUS STABALIZED SUBGRADE	SURFACE BEYOND R/W LINE AREA	COMP. AGGREG. NO. 53 BASE	HMA FOR APP. TYPE B	PCCP FOR APPROACHES
		FT	FT	FT	FT	%	%	%	SYD	CUT	FILL	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	SYD	TONS	SYD	SYD	SYD	SYD		SYD	SYD	SYD	SYD	SYD	SYD	TONS	TONS	SYD
LINE "PR-A"																																										
151+00-153+53.06	FULL DEPTH PAVEMENT								1,803				149	248	595	226								1.80				1,803												
153+53.06-155+22.06	ROUNDABOUT								1,683				139	232	556	211							376	1.68				2,442								199				
155+22.06-157+05.33	FULL DEPTH PAVEMENT								1,315				109	181	434	165								1.31				1,315												
157+05.33-201+00	FULL DEPTH PAVEMENT	52							26,662				2,200	3,666	8,799	3,333								26.66				26,662												
HMA SIDEWALKS									11,669												781	1,225		2.92						11,113			3,886							
LINE "S-2-A"																																										
19+93.00-22+64.75	RESURFACE PAVEMENT								629								52							0.16		629														
22+64.75-25+25.77	FULL DEPTH PAVEMENT								1,303				108	180	431	163								1.30				1,303												
26+94.77-29+30.76	FULL DEPTH PAVEMENT								1,214				101	167	401	152								1.21				1,214												
29+30.76-32+20.84	RESURFACE PAVEMENT								596								50							0.15		596														
LINE "FRN1"																																										
34+50.00-38+41.31	FRONTAGE ROAD PAVEMENT								1,177										130	259				0.29				1,178				262								
35+61 LT.	CLASS II DRIVE	12	32		25/15	2.0	0.4		59															0.01			17		59											
LINE "FRN2"																																										
20+23.53-29+12.52	FRONTAGE ROAD PAVEMENT								2,522										278	555				0.63				2,523				560								
49+62.53-69+74.06	FRONTAGE ROAD PAVEMENT								6,437										709	1,417				1.61				6,437				1,429								
58+25 LT.	CLASS II DRIVE	24	20		20/20	2.0	9.2		77															0.02			22		77											
62+86 LT.	CLASS II DRIVE	18	20		25/15	2.0	4.4		63															0.02			18		63											
63+69 LT.	CLASS II DRIVE	12	20		25/15	2.0	10.0		47															0.01			13		48											
LINE "FRS2"																																										
20+27.73-28+00.00	FRONTAGE ROAD PAVEMENT								2,243										247	494				0.56				2,243				498								
LINE "PR-1" & "PR-2"																																										
143+36.99-151+00.00	RESURFACE PAVEMENT								2,542						420		210	350						0.64				2,543						1,129						
143+36.99-148+19.19	TRANSITION ROAD PAVEMENT								1,007			84												0.50		1,007														
LINE "A"																																										
135+62.69-177+50.13	RESURFACE PAVEMENT	21	4,187						10,340			854												2.59		10,340														
	TOTALS									94,514	19,992	938	2,806	4,674	11,636	4,250	312	350	1,364	2,725	781	1,225	376	44.08		12,573	70	49,662	247	11,113		2,749	3,886	1,129	199					

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT QUANTITIES
AND APPROACH TABLE

HORIZONTAL SCALE	BRIDGE FILE
NA	
VERTICAL SCALE	DESIGNATION
NA	1401702
SURVEY BOOK	SHEETS
	79 of 148
CONTRACT	PROJECT
R-38240	1401702

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PAVED SIDE DITCH, RIPRAP DITCH AND SODDING SUMMARY TABLE

LOCATION					PAVED SIDE DITCH								RIPRAP DITCH			SODDING								
								TOTAL EQUIVALENT PAY LENGTHS TYPE																
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8' EQUAL LENGTH EACH)	LUGS (8' EQUAL LENGTH EACH)	A	B	C	D	E	REVETMENT RIPRAP	UNIFORM RIPRAP	GEOTEXTILE	ACTUAL LENGTH	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING	NURSERY SODDING FOR LAWNS	TOTAL SODDING
					FT	EACH	EACH	FT	FT	FT	FT	FT	TON	TON	SYD	FT	SYD	SYD	SYD	SYD	SYD	SYD	SYD	SYD
"PR-A"																								
150+00	150+50			X												50						45		45
150+30	151+50	X												67	163									
166+00	167+50			X												150						200		200
182+25	184+00	X														175						235		235
"FRN2"																								
20+25	21+50	X												70	171									
28+00	29+12	X												63	152									
"FRS2"																								
20+50	22+50			X												200						250		250
TOTALS														200	486									730

MONUMENT SUMMARY

STATION	TYPE B EACH	TYPE C EACH
LINE "PR-A"		
151+00.00		1
151+21.82		1
152+20.86	1	
153+19.26	1	
154+37.56		1
201+00.00	1	
LINE "S-2-A"		
20+52.15	1	
22+64.75	1	
25+00.00	1	
29+30.76	1	
31+67.78	1	
LINE "FRN1"		
34+50.00	1	
35+17.50	1	
36+91.36		1
37+88.35	1	
LINE "FRN2"		
20+80.13	1	
22+46.36		1
23+43.35	1	
24+48.12	1	
26+19.92		1
27+16.95	1	
29+12.52	1	
49+62.53	1	
69+74.06	1	
LINE "FRS2"		
23+49.04	1	
22+52.08		1
20+76.89	1	
24+62.81	1	
26+31.11		1
27+28.14	1	
28+00.00	1	
49+74.24	1	
TOTALS	24	8

R/W MARKER SUMMARY

STATION	OFFSET	LT.	RT.
LINE "PR-A"			
193+47	105.83	X	
141+14.84	75	X	
141+14.84	75		X
141+14.84	139		X
142+71.00	153.11		X
143+15.38	75		X
143+15.38	75	X	
151+20.96	75		X
151+21.82	75	X	
153+00.00	93.31		X
153+00.00	75	X	
156+00.00	75	X	
156+18.00	75		X
158+00.00	150	X	
159+50.00	126.66		X
159+50.00	155		X
160+38.73	139	X	
160+38.82	150	X	
186+70.94	139	X	
186+70.94	215	X	
188+08.87	215	X	
188+58.87	139	X	
194+70.99	75	X	
194+71.42	139	X	
201+02.50	75		X
LINE "FRN1"			
31+53.93	39.43	X	
33+53.88	39.43	X	
35+29.90	40.56	X	
37+75.95	40.56	X	
LINE "FRN2"			
20+91.71	45.5	X	
23+31.77	45.5	X	
24+68.63	44.08	X	
26+01.62	38.83	X	
LINE "FRS1"			
67+26.86	43.64		X
69+79.22	43.64		X
70+77.92	45.49		X
73+16.94	45.49		X
LINE "FRS2"			
20+88.90	50.54		X
22+09.76	56.53		X
22+59.33	50.66		X
23+36.85	45.55		X
24+82.91	44.12		X
27+08.04	44.12		X
LINE "S-2-A"			
19+75.00	25	X	
19+75.00	16.5		X
20+75.00	50	X	
20+75.00	50		X
24+00.00	50	X	
24+00.00	50		X
28+00.00	50	X	
28+00.00	85		X
31+45.00	50	X	
31+45.00	45		X
32+50.00	16.5	X	
32+50.00	16.5		X

MAILBOX APPROACHES

BOX STATION	LEFT	RIGHT	DESCRIPTION	WIDTH W.(FT)	ASSEMBLY REQUIRED SINGLE		
LINE "FRN1"							
35+77					1		
LINE "FRN2"							
63+17	X				1		
64+00	X				1		
TOTALS					3		

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

HORIZONTAL SCALE	BRIDGE FILE
NA	
VERTICAL SCALE	DESIGNATION
NA	1401702
SURVEY BOOK	SHEETS
	80 of 148
CONTRACT	PROJECT
R-38240	1401702

UNDERDRAIN TABLE

	UNDERDRAIN PIPE										OUTLET PIPE										OUTLET PROTECTORS						
	UNDERDRAIN PIPE LIMITS	TYPE 4 PIPE 4"	TYPE 4 PIPE 6"	GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	SHARED TRENCH WITH STORM PIPE	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDRAIN PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	45° ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ____	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	B BORROW FOR STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. ____	OUTLET PROTECTOR TYPE	OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	REMARKS
		LFT	LFT	SYS	CYS	(Y/N)	%		(Y/N)				LFT							CYS	TONS							
L	150+30							*N/A	N																			
R	149+00		130	116	12	NO		*N/A	N	208	*N/A																	
R	150+30							*N/A	N																			
L	150+30		140	125	13	NO		*N/A	N	210	*N/A																	
L	151+70							*N/A	N																			
R	150+30		140	125	13	NO		*N/A	N	212	*N/A																	
R	151+70							*N/A	N																			
L	151+70		224	200	20	NO		902.13	N	214	901.63																	
L	153+94							905.11	N																			
R	151+70		204	182	19	NO		902.45	N	216	901.95																	
R	153+74							905.24	N																			
L	154+87		103	92	10	NO		904.84	N																			
L	155+90							904.21	N	220	903.47																	
R	155+04		86	77	8	NO		904.65	N																			
R	155+90							904.27	N	222	903.77																	
L	155+90		60	54	6	NO		904.21	N																			
L	156+50							903.95	N	226	903.45																	
R	155+90		60	54	6	NO		904.65	N																			
R	156+50							904.35	N	228	903.85																	
L	156+50		60	54	6	NO		903.95	N	226	903.45																	
L	157+10							904.23	N																			
R	156+50		60	54	6	NO		904.35	N	228	903.85																	
R	157+10							904.61	N																			
L	157+10		85	76	8	NO		904.65	N	230	904.15																	
L	157+95							905.59	N																			
R	157+10		85	76	8	NO		904.65	N	232	904.15																	
R	157+95							905.59	N																			
L	157+95		135	120	12	NO		905.64	N	234	905.14																	
L	159+30							907.31	N																			
R	157+95		135	120	12	NO		905.96	N	236	905.46																	
R	159+30							907.63	N																			
L	159+30		220	196	20	NO		907.61	N	238	907.11																	
L	161+50							910.34	N																			
R	159+30		220	196	20	NO		907.06	N	240	906.56																	
R	161+50							909.79	N																			
L	161+50		225	200	20	NO		909.57	N	242	909.07																	
L	163+75							912.36	N																			
R	161+50		225	175	20	NO		909.57	N	244	909.07																	
R	163+75							912.36	N																			
L	163+75		200	156	18	NO		912.36	N	246	910.86																	
L	165+75							914.77	N																			
R	163+75		200	156	18	NO		912.36	N	248	911.86																	
R	165+75							914.77	N																			

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN
TABLE

HORIZONTAL SCALE	BRIDGE FILE
NA	
VERTICAL SCALE	DESIGNATION
NA	1401702
SURVEY BOOK	SHEETS
	81 of 148
CONTRACT	PROJECT
R-38240	1401702

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UNDERDRAIN TABLE

		UNDERDRAIN PIPE										OUTLET PIPE										OUTLET PROTECTORS						
			TYPE 4 PIPE																									
		UNDERDRAIN PIPE LIMITS	4"	6"	GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	SHARED TRENCH WITH STORM PIPE	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDRAIN PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	45° ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ____	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	B BORROW FOR STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. ____	OUTLET PROTECTOR TYPE	OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	REMARKS
			LFT	LFT	SYS	CYS	(Y/N)	%		(Y/N)				LFT							CYS	TONS							
L	165+75			200	156	18	NO		914.77	N	250	912.27																	
L	167+75								916.39	N																			
R	165+75			200	156	18	NO		914.77	N	252	914.27																	
R	167+75								916.39	N																			
L	167+75			150	117	14	NO		916.39	N	254	913.57																	
L	169+25								917.15	N																			
R	167+75			150	117	14	NO		916.39	N	256	913.89																	
R	169+25								917.15	N																			
L	169+25			135	105	12	NO		917.15	N	258	914.65																	
L	170+60								917.82	N																			
R	169+25			135	105	12	NO		917.92	N	260	917.42																	
R	170+60								918.59	N																			
L	170+60			140	109	13	NO		917.82	N	262	915.32																	
L	172+00								918.52	N																			
R	170+60			140	109	13	NO		918.36	N	264	917.86																	
R	172+00								919.06	N																			
L	172+00			135	105	12	NO		918.52	N	266	916.02																	
L	173+35								919.20	N																			
R	172+00			135	105	12	NO		918.84	N	268	918.34																	
R	173+35								919.52	N																			
L	173+35			135	105	12	NO		919.20	N	270	916.70																	
L	174+70								919.87	N																			
R	173+35			135	105	12	NO		919.20	N	272	918.70																	
R	174+70								919.87	N																			
L	174+70			140	109	13	NO		919.87	N	274	917.37																	
L	176+10								920.57	N																			
R	174+70			140	109	13	NO		919.87	N	276	919.37																	
R	176+10								920.57	N																			
L	176+10			135	105	12	NO		920.57	N	278	918.07																	
L	177+45								921.25	N																			
R	176+10			135	105	12	NO		920.57	N	280	920.07																	
R	177+45								921.25	N																			
L	177+45			135	105	12	NO		921.25	N	282	918.75																	
L	178+80								921.92	N																			
R	177+45			135	120	12	NO		921.25	N	284	920.75																	
R	178+80								921.92	N																			
L	178+80			120	107	11	NO		921.92	N	286	919.42																	
L	180+00								922.52	N																			
R	178+80			120	107	11	NO		921.92	N	288	921.42																	
R	180+00								922.52	N																			
L	180+00			217	193	20	NO		922.52	N	290	919.48																	
L	182+17								923.23	N																			
R	180+00			217	193	20	NO		922.52	N	292	922.02																	
R	182+17								923.23	N																			

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

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CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN
TABLE

HORIZONTAL SCALE	BRIDGE FILE
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VERTICAL SCALE	DESIGNATION
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UNDERDRAIN TABLE

		UNDERDRAIN PIPE										OUTLET PIPE										OUTLET PROTECTORS						
			TYPE 4 PIPE																									
	UNDERDRAIN PIPE LIMITS	4"	6"	GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	SHARED TRENCH WITH STORM PIPE	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDRAIN PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	45° ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ____	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	B BORROW FOR STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. ____	OUTLET PROTECTOR TYPE	OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	REMARKS
		LFT	LFT	SYS	CYS	(Y/N)	%		(Y/N)				LFT							CYS	TONS							
L	182+17		168	150	15	NO		923.23	N	294	921.26																	
L	183+85							922.77	N																			
R	182+17		168	150	15	NO		923.23	N	296	922.27																	
R	183+85							922.77	N																			
L	183+85		135	120	12	NO		922.77	N	298	921.59																	
L	185+20							922.09	N																			
R	183+85		135	120	12	NO		922.77	N	300	921.59																	
R	185+20							922.09	N																			
L	185+20		135	120	12	NO		922.09	N	302	920.92																	
L	186+55							921.42	N																			
R	185+20		135	120	12	NO		922.09	N	304	920.92																	
R	186+55							921.42	N																			
L	186+55		140	125	13	NO		921.42	N	306	920.22																	
L	187+95							920.72	N																			
R	186+55		140	125	13	NO		921.42	N	308	920.22																	
R	187+95							920.72	N																			
L	187+95		135	120	12	NO		920.72	N	310	919.54																	
L	189+30							920.04	N																			
R	187+95		135	120	12	NO		920.72	N	312	919.54																	
R	189+30							920.04	N																			
L	189+30		135	120	12	NO		920.04	N	314	918.87																	
L	190+65							919.37	N																			
R	189+30		135	120	12	NO		920.04	N	316	918.87																	
R	190+65							919.37	N																			
L	190+65		135	120	12	NO		919.37	N	318	918.19																	
L	192+00							918.69	N																			
R	190+65		135	120	12	NO		919.37	N	320	918.19																	
R	192+00							918.69	N																			
L	192+00		140	125	13	NO		918.69	N	322	917.49																	
L	193+40							917.99	N																			
R	192+00		140	125	13	NO		918.69	N	324	917.49																	
R	193+40							917.99	N																			
L	193+40		140	125	13	NO		918.45	N	326	917.25																	
L	194+80							917.75	N																			
R	193+40		140	125	13	NO		917.99	N	328	916.79																	
R	194+80							917.29	N																			
L	194+80		135	120	12	NO		917.90	N	330	916.73																	
L	196+15							917.23	N																			
R	194+80		135	120	12	NO		917.46	N	332	916.29																	
R	196+15							916.79	N																			
L	196+15		135	120	12	NO		917.38	N	334	916.20																	
L	197+50							916.70	N																			
R	196+15		135	120	12	NO		916.95	N	336	915.77																	
R	197+50							916.27	N																			

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INDIANA
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UNDERDRAIN
TABLE

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VERTICAL SCALE	DESIGNATION
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UNDERDRAIN TABLE

		UNDERDRAIN PIPE										OUTLET PIPE										OUTLET PROTECTORS						
	UNDERDRAIN PIPE LIMITS	TYPE 4 PIPE 4"	TYPE 4 PIPE 6"	GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	SHARED TRENCH WITH STORM PIPE	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDRAIN PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	45° ELBOWS REQUIRED (1 OR 2)	6" OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ____	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	B BORROW FOR STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. ____	OUTLET PROTECTOR TYPE	OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	REMARKS
		LFT	LFT	SYS	CYS	(Y/N)	%		(Y/N)				LFT							CYS	TONS							
L	197+50		140	125	13	NO		916.26	N	338	915.06																	
L	198+90							915.56	N																			
R	197+50		140	125	13	NO		915.94	N	340	914.74																	
R	198+90							915.24	N																			
L	198+90		135	120	12	NO		915.56	N	342	914.39																	
L	200+25							914.89	N																			
R	198+90		135	120	12	NO		915.24	N	344	914.07																	
R	200+25							914.57	N																			
										356	903.52																	
L	24+22		85	67	8	NO		904.02	N																			
L	25+07							904.39	N																			
										358	903.51																	
R	24+22		85	67	8	NO		904.01	N																			
R	25+07							904.31	N																			
										360	903.89																	
L	25+07		39	31	4	NO		904.39	N																			
L	25+46							904.74	N																			
										362	903.81																	
R	25+07		37	29	4	NO		904.31	N																			
R	25+44							904.65	N																			
										364	904.49																	
L	27+00		30	24	3	NO		904.99	N																			
L	27+30							905.37	N																			
										366	904.34																	
R	27+00		30	24	3	NO		904.84	N																			
R	27+30							905.52	N																			
										368	904.87																	
L	27+30		53	42	5	NO		905.37	N																			
L	27+83							906.75	N																			
										370	905.02																	
R	27+30		52	41	5	NO		905.52	N																			
R	27+82							906.92	N																			
	TOTALS		10,438	8,912	951																							

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INDIANA
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UNDERDRAIN
TABLE

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TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY									REMARKS
	LEFT	MEDIAN	RIGHT	SILT FENCE	SEDIMENT TRAP	SEDIMENT BASIN	SLOPE DRAIN	RIPRAP SPLASH PAD	CHECK DAM, TRAVERSABLE	CHECK DAM, REVETMENT RIPRAP	INLET PROTECTION	FISH POOL	
	FT	FT	FT	LFT	TONS	EACH	LFT	CYS	LFT	TONS	EACH	EACH	
LINE "PR-1"													
143+60	X									4.5			
LINE "PR-A"													
150+15			X							4.5			
150+30	X									4.5			
150+90	X									4.5			
151+70	X										1		
151+70			X								1		
152+50	X									4.5			
155+90	X										1		
155+90			X								1		
156+50			X								1		
156+50	X										1		
156+60			X							4.5			
157+10	X										1		
157+10			X								1		
157+95	X										1		
157+95			X								1		
159+30	X										1		
159+30			X								1		
161+50	X										1		
161+50			X								1		
161+50			X		12.0								
163+75	X										1		
163+75			X								1		
164+25	X				12.0								
165+75	X										1		
165+75			X								1		
167+75	X										1		
167+75			X								1		
169+25	X										1		
169+25			X								1		
170+60	X										1		
170+60			X								1		
172+00	X										1		
172+00			X								1		
173+35	X										1		
173+35			X								1		
174+70	X										1		
174+70			X								1		
176+10	X										1		
176+10			X								1		
177+45	X										1		
177+45			X								1		
178+80	X										1		
178+80			X								1		
180+00	X										1		
180+00			X								1		
183+85	X										1		
183+85			X								1		
185+20	X										1		
185+20			X								1		
186+00			X							12.0			
186+50	X									12.0			
186+55	X										1		
186+55			X								1		
187+95	X										1		
187+95			X								1		
189+30	X										1		
189+30			X								1		
190+65	X										1		
190+65			X								1		
192+00	X										1		
192+00			X								1		
192+20			X							12.0			
192+90	X									12.0			

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY									REMARKS
	LEFT	MEDIAN	RIGHT	SILT FENCE	SEDIMENT TRAP	SEDIMENT BASIN	SLOPE DRAIN	RIPRAP SPLASH PAD	CHECK DAM, TRAVERSABLE	CHECK DAM, REVETMENT RIPRAP	INLET PROTECTION	FISH POOL	
	FT	FT	FT	LFT	TONS	EACH	LFT	CYS	LFT	TONS	EACH	EACH	
193+40	X										1		
193+40			X								1		
194+80	X										1		
194+80			X								1		
196+15	X										1		
196+15			X								1		
197+50	X										1		
197+50			X								1		
198+90	X										1		
198+90			X								1		
200+25	X										1		
200+25			X								1		
201+00	X									12.0			
201+00	X				12.0								
201+00			X		12.0								
LINE "FRN1"													
35+41	X									4.5			
38+11	X									4.5			
LINE "FRS1"													
73+38			X							4.5			
LINE "S-2-A"													
20+06			X							4.5			
23+01			X							4.5			
24+22	X										1		
24+22			X								1		
25+07	X										1		
25+07			X								1		
27+00	X										1		
27+00			X								1		
27+30	X										1		
27+30			X								1		
LINE "FRN2"													
21+36	X									4.5			
21+65	X									4.5			
28+71	X									4.5			
49+00 to 57+71	X			1002									
51+00	X									4.5			
57+82	X									4.5			
58+46 to 62+32	X			387									
62+50	X									4.5			
63+38	X									4.5			
LINE "FRS2"													
23+75			X							4.5			
26+00			X							4.5			
NE Pond						1							
SW Pond						1							
TOTALS				1389	48	2	0	0	0	150	72	0	

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HORIZONTAL SCALE	BRIDGE FILE
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STRUCTURE DATA

STRUCTURE NUMBER	STATION	OFFSET	LEFT	RIGHT	CROSS	SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	TOP OF CASTING	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURAL BACKFILL TYPE	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	HMA FOR STRUCTURE INSTAL., TYPE C	FLOWABLE BACKFILL (NON-REMOVABLE)	GEOTEXTILES	UNIFORM RIPRAP	CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION TYPE	GRATED BOX END SECTION SLOPE	GRATED BOX END SECTION EA.	SAFETY METAL END SECTION SLOPE	SAFETY METAL END SECTION EA.	CONNECT TO STR. NO.	REMARKS
		FT				IN			FT		FT	ELEV.	ELEV.	ELEV.	YR.					CYD	CYD	CYD	CYD	CYD	TONS	CYD	SYS	TON	CYD	LF	EA.	TYPE	SLOPE	EA.	SLOPE	EA.		
LINE "PR-1"																																						
202	143+50				X	24	1	PIPE	39		1.1	902.98	898.94	898.74	75	N	7.0	1		17							32	12			2							
204	150+00				X	24	1	PIPE	80		1.3	905.33	901.13	900.89	75	N	7.0	1		37							32	12			2							
LINE "PR-A"																																						
214	151+70		X			12	2	INLET B-15	48		1.4	905.01	901.63	901.39	75	N	7.0	1		14							16	6		48	1							
216	151+70			X		12	2	INLET C-15	64		1.0	904.95	901.95	901.63	75	N	7.0	1		15										64								
218	152+50				X	24	1	PIPE	224		2.5	906.49	901.00	900.40	75	N	7.0	1		152							32	12			1							
220	155+90		X			12	2	INLET B-15	60		1.8	907.21	903.47	903.00	75	N	7.0	1		20							21	8		60	1							
222	155+90			X		12	2	INLET B-15	59		1.5	907.27	903.77	903.47	75	N	7.0	1		18										59								
224	156+00				X	7' X 4'	2	CONCRETE BOX	202		0.6	907.70	900.50	900.24	75	N	7.0	1			19			350			128	123										BOX IS SUMPED 1'
225	156+50			X		36	1	PIPE	75		3.0	907.01	903.75	901.77	75	N	7.0	1		22							16	6			1							
226	156+50		X			12	2	INLET B-15	36		1.5	906.95	903.45	903.00	75	N	7.0	1		11							16	6		36	1							
228	156+50			X		12	2	INLET B-15	29		1.2	906.97	903.85	903.75	75	N	7.0	1		8							16	6		29	1							
230	157+10		X			12	2	INLET B-15	30		1.1	907.23	904.15	904.00	75	N	7.0	1		8							16	6		30	1							
232	157+10			X		12	2	INLET B-15	30		1.1	907.23	904.15	904.00	75	N	7.0	1		8							16	6		30	1							
234	157+95		X			12	2	INLET B-15	30		1.1	908.17	905.14	905.00	75	N	7.0	1		8							16	6		30	1							
236	157+95			X		12	2	INLET B-15	24		0.8	908.17	905.46	905.34	75	N	7.0	1		5							21	8		24	1							
238	159+30		X			12	2	INLET B-15	25		0.8	909.84	907.11	906.99	75	N	7.0	1		6							19	7		25	1							
240	159+30			X		12	2	INLET B-15	28		1.3	909.84	906.56	906.42	75	N	7.0	1		8							19	7		28	1							
242	161+50		X			12	2	INLET B-15	28		1.5	912.57	909.07	908.93	75	N	7.0	1		9							21	8		28	1							
244	161+50			X		12	2	INLET B-15	28		1.5	912.57	909.07	908.93	75	N	7.0	1		9							21	8		28	1							
246	163+75		X			12	2	INLET B-15	32		2.5	915.36	910.86	910.70	75	N	7.0	1		14							27	10		32	1							
248	163+75			X		12	2	INLET B-15	28		1.5	915.36	911.86	911.72	75	N	7.0	1		9							27	10		28	1							
250	165+75		X			12	2	INLET B-15	38		3.5	917.77	912.27	911.52	75	N	7.0	1		22							27	10		38	1							
252	165+75			X		12	2	INLET B-15	28		1.5	917.77	914.27	914.13	75	N	7.0	1		9							29	12		28	1							
254	167+75		X			12	2	INLET C-15	39		3.9	919.39	913.57	912.79	75	N	7.0	1		24							29	12		39	1							
256	167+75			X		12	2	INLET B-15	64		3.5	919.39	913.89	913.57	75	N	7.0	1		36										64								
258	169+25		X			12	2	INLET B-15	38		3.5	920.15	914.65	913.89	75	N	7.0	1		22							29	12		38	1							
260	169+25			X		12	2	INLET B-15	24		0.8	920.15	917.42	917.30	75	N	7.0	1		5							19	7		24	1							
262	170+60		X			12	2	INLET B-15	38		3.5	920.82	915.32	914.57	75	N	7.0	1		22							29	12		38	1							
264	170+60			X		12	2	INLET B-15	25		1.0	920.82	917.86	917.74	75	N	7.0	1		6							19	7		25	1							
266	172+00		X			12	2	INLET B-15	38		3.5	921.52	916.02	915.27	75	N	7.0	1		22							29	12		38	1							
268	172+00			X		12	2	INLET B-15	26		1.2	921.52	918.34	918.21	75	N	7.0	1		7							13	5		26	1							
270	173+35		X			12	2	INLET B-15	38		3.5	922.20	916.70	915.94	75	N	7.0	1		22							29	12		38	1							
272	173+35			X		12	2	INLET B-15	28		1.5	922.20	918.70	918.56	75	N	7.0	1		9							13	5		28	1							
274	174+70		X			12	2	INLET B-15	38		3.5	922.87	917.37	916.62	75	N	7.0	1		22							29	12		38	1							
276	174+70			X		12	2	INLET B-15	28		1.5	922.87	919.37	919.23	75	N	7.0	1		9							16	6		28	1							
278	176+10		X			12	2	INLET B-15	38		3.5	923.57	918.07	917.32	75	N	7.0	1		22							27	10		38	1							
280	176+10			X		12	2	INLET B-15	28		1.5	923.57	920.07	919.93	75	N	7.0	1		9							21	8		28	1							
282	177+45		X			12	2	INLET B-15	38		3.5	924.25	918.75	918.00	75	N	7.0	1		22							29	12		38	1							
284	177+45			X		12	2	INLET B-15	28		1.5	924.25	920.75	920.61	75	N	7.0	1		9							21	8		28	1							
286	178+80		X			12	2	INLET B-15	38		3.5	924.92	919.42	918.67	75	N	7.0	1		22							29	12		38	1							
288	178+80			X		12	2	INLET B-15	28		1.5	924.92	921.42	921.28	75	N	7.0	1		9							24	9		28	1							
290	180+00		X			12	2	INLET B-15	38		4.1	925.52	919.48	919.27	75	N	7.0	1		25							27	10		38	1							
292	180+00			X		12	2	INLET B-15	28		1.5	925.52	922.02	921.88	75	N	7.0	1		9							24	9		28	1							
294	183+85		X			12	2	INLET B-15	32		2.6	925.77	921.26	921.11	75	N	7.0	1		14							21	8		32	1							
296	183+85			X		12	2	INLET B-15	28		1.5	925.77	922.27	922.13	75	N	7.0	1		9							27	10		28	1							
298	185+20		X			12	2	INLET B-15	28		1.5	925.09	921.59	921.45	75	N	7.0	1		9							24	9		28	1							
300	185+20			X		12	2	INLET B-15	28		1.5	925.09	921.59	921.45	75	N	7.0	1		9							24	9		28	1							
302	186+55		X			12	2	INLET B-15	28		1.5	924.42	920.92	920.78	75	N	7.0	1		9							24	9		28	1							
304	186+55			X		12	2	INLET B-15	28		1.5	924.42	920.92	920.78	75	N	7.0	1		9							24	9		28	1							
306	187+95		X			12	2	INLET B-15	28		1.5	923.72	920.22	920.08	75	N	7.0	1		9							21	8		28	1							
308	187+95			X		12	2	INLET B-15	28		1.5	923.72	920.22	920.08	75	N	7.0	1		9							24	9		28	1							
310	189+30		X			12	2	INLET B-15	28		1.5	923.04	919.54	919.40	75	N	7.0	1		9							27	10		28	1							
312	189+30			X		12	2	INLET B-15	28		1.5	923.04	919.54	919.40	75	N	7.0	1		9							21	8		28	1							
314	190+65		X			12	2	INLET B-15	28		1.5	922.37	918.87	918.73	75	N	7.0	1		9							19	7		28	1							
316	190+65			X		12	2	INLET B-15	28		1.5	922.37	918.87	918.73	75	N	7.0	1		9							21	8		28	1							
318	192+00		X			12	2	INLET B-15	28		1.5	921.69	918.19	918.05	75	N	7.0	1		9							19	7		28	1							
320	192+00			X		12	2	INLET B-15	28		1.5	921.69	918.19	918.05	75	N	7.0	1		9							21	8		28	1							
322	193+40		X			12	2	INLET B-15	28		1.5	920.99	917.49	917.35	75	N	7.0	1		9							19	7		28	1							
324	193+40			X		12	2	INLET B-15	28		1.5	920.99	917.49	917.35	75	N	7.0	1		9							19	7		28	1							
326	194+80		X			12	2	INLET B-15	26		1.1	920.29	917.25	917.12	75	N	7.0	1		7							27	10		26	1							
328	194+80			X		12	2	INLET B-15	28		1.5	920.29	916.79	916.65	75	N	7.0	1		9							19	7		28	1							
330	196+15		X			12	2	INLET B-15	25		0.9	919.62	916.73	916.61	75	N	7.0	1		6							19	7		25	1							
332	196+15			X		12	2	INLET B-15	28		1.4	919.62	916.29	916.15	75	N	7.0	1		8							19	7		28	1							
334	197+50		X			12	2	INLET B-15	24		0.8	918.94	916.20	916.08	75	N	7.0	1		5							19	7		24	1							
336	197+50			X		12	2	INLET B-15	28		1.2	918.94	915.77	915.63	75	N	7.0	1		8							16	6		28	1							
338	198+90		X			12	2	INLET B-15	64		1.2	918.24	915.06	914.74	75	N	7.0	1		17										64								
340	198+90			X		12	2	INLET C-15	28		1.5	918.24	914.74	914.60	75	N	7.0	1		9							16	6		28	1							
342	200+25		X			12	2	INLET B-15	64		1.2	917.57	914.39	914.07	75	N	7.0	1		17										64								
344	200+25			X		12	2	INLET C-15	28		1.5	917.57	914.07	913.93	75	N	7.0	1		9							16	6		28	1							
LINE "FRN1"																		1																				

RECOMMENDED FOR APPROVAL ________ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
NA	
VERTICAL SCALE	DESIGNATION
NA	1401702
SURVEY BOOK	SHEETS
	86 of 148
CONTRACT	PROJECT
R-38240	1401702

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STRUCTURE DATA

STRUCTURE NUMBER	LOCATION: STATION	LOCATION: OFFSET FT	LOCATION: LEFT	LOCATION: RIGHT	LOCATION: CROSS	SIZE IN	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH FT	SKEW	COVER FT	TOP OF CASTING ELEV.	FLOW LINE: UP STREAM ELEV.	FLOW LINE: DOWN STREAM ELEV.	SERVICE LIFE YR.	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURAL BACKFILL: TYPE	STRUCTURAL BACKFILL: TYPE 1 CYD	STRUCTURAL BACKFILL: TYPE 2 CYD	STRUCTURAL BACKFILL: TYPE 3 CYD	STRUCTURAL BACKFILL: TYPE 4 CYD	STRUCTURAL BACKFILL: TYPE 5 CYD	HMA FOR STRUCTURE INSTALL, TYPE C TONS	FLOWABLE BACKFILL (NON-REMOVABLE) CYD	GEOTEXTILES SYS	UNIFORM RIPRAP TON	CONCRETE, CLASS A, FOR STRUCTURES CYD	VIDEO INSPECTION LF	PIPE END SECTION EA.	GRATED BOX END SECTION: TYPE	GRATED BOX END SECTION: SLOPE	GRATED BOX END SECTION: EA.	SAFETY METAL END SECTION: SLOPE	SAFETY METAL END SECTION: EA.	CONNECT TO STR. NO.	REMARKS
346	35+57		X			12	3	PIPE	38		0.9	908.80	905.94	905.78	75	N	7.0	2		4							32	12			2								
348	38+07				X	15	1	PIPE	56		1.3	908.27	904.77	904.00	75	N	7.0	1		18							32	12			2								
LINE "FRS1"																		1																				
350	73+34				X	48	1	PIPE	84		2.4	905.91	898.60	898.43	75	N	7.0	1		136							32	12			2								CONCRETE PIPE ANCHOR REQ'D
LINE "S-2-A"																		1																				
352	20+03				X	48	1	PIPE	64		1.0	905.84	899.72	899.40	75	N	7.0	1		78					18		32	12			2								
354	22+84				X	7' X 4'		CONCRETE BOX	67		1.7	907.12	898.80	898.60	75	N	7.0	1			314						105	65											BOX IS SUMPED 1'
356	24+22		X			12	2	INLET B-15	25		1.5	907.02	903.52	902.00	75	N	7.0	1		8							16	6		25	1								
358	24+22			X		12	2	INLET B-15	24		1.5	907.01	903.51	902.00	75	N	7.0	1		7							16	6		24	1								
360	25+07		X			12	2	INLET B-15	56		1.5	907.39	903.89	902.00	75	N	7.0	1		17							16	6		56	1								
362	25+07			X		12	2	INLET B-15	57		1.5	907.31	903.81	902.00	75	N	7.0	1		17							16	6		57	1								
364	27+00		X			12	2	INLET B-15	36		1.5	907.99	904.49	903.00	75	N	7.0	1		11							13	5		36	1								
366	27+00			X		12	2	INLET B-15	54		1.5	907.84	904.34	903.00	75	N	7.0	1		16							9	3		54	1								
368	27+30		X			12	2	INLET B-15	28		1.5	908.37	904.87	903.00	75	N	7.0	1		9							20	8		28	1								
370	27+30			X		12	2	INLET B-15	42		1.5	908.52	905.02	903.00	75	N	7.0	1		13							9	3		42	1								
LINE "FRN2"																		1																				
372	21+63				X	18	1	PIPE	53		1.0	907.65	904.50	904.00	75	N	7.0	1		14							16	6			2								
374	28+71				X	15	1	PIPE	50		1.2	910.57	907.20	906.83	75	N	7.0	1		15							19	7			2								
375	51+00				X	12	1	PIPE	43		0.9	920.91	918.07	917.86	75	N	7.0	1		10							27	10			2								
376	58+00				X	12	1	PIPE	49		1.4	921.55	918.23	917.99	75	N	7.0	1		8							11	4			2								
377	62+65				X	12	1	PIPE	51		1.5	920.20	916.71	916.46	75	N	7.0	1		15							27	10			2								
378	63+55				X	12	1	PIPE	53		1.6	919.90	916.38	916.12	75	N	7.0	1		7							11	4			2								
TOTALS																				1409	333			350	18		1989	855		2450								

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
NA	
VERTICAL SCALE	DESIGNATION
NA	1401702
SURVEY BOOK	SHEETS
	87 of 148
CONTRACT	PROJECT
R-38240	1401702

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	STRUCTURE NUMBER		1	2	3	4	5	6	7	202 & 204	218	225	350	352	372	374							
	PIPE TYPE / SHAPE (CIR OR DEF)		2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	1/CIR	2/CIR	2/CIR	1/CIR	1/CIR	1/CIR	1/CIR	1/CIR	1/CIR							
INT. DES.	SMOOTH PIPE SIZE		12	12	12	12	12	12	12	24	24	36	48	48	18	15							
	CORRUGATED PIPE SIZE																						
	SEMI-SMOOTHER PIPE SZIE									24													
CONC	RCP / RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II	II							
		$D_{0.01}$ RATING	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		X			X	X		X		X	X											
PLASTIC PIPE	CORRUGATED PE PIPE, TYPE S (S) *					X			X		X	X	X										
	PROFILE WALL (RIBBED) PE PIPE (S) *										X	X											
	PROFILE WALL (CLOSED) PE PIPE (S) *										X	X											
	SMOOTH WALL PE PIPE (S) * / MAXIMUM DR					X/26			X/26		X/26	X/26											
	CORRUGATED PP PIPE (S)					X			X		X	X											
	PROFILE WALL PVC PIPE (S)					X			X		X	X											
	SMOOTH WALL PVC PIPE (S) *					X			X		X												
CLAY	VIRTIFIED CLAY PIPE, EXTRA STRENGTH (S)		X	X		X	X		X		X	X											
CORRUGATED STEEL PIPE/PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE																					
		THICKNESS																					
	ZINC COATED (C)	CORR. PROFILE																					
		THICKNESS																					
	ZINC COATED W/ BPI (C)	CORR. PROFILE																					
		THICKNESS																					
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE																					
		THICKNESS																					
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE																					
		THICKNESS																					
	POLYMER PRECOATED GALV. CORR. STEEL PIPE TYPE IA(S)	CORR. PROFILE																					
		THICKNESS																					
COR. ALUM. PIPE/ P-ARCH	CORRUGATED ALUM. ALLOY (C)	CORR. PROFILE																					
		THICKNESS																					
	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE																					
		THICKNESS																					
SPIRAL RIB STEEL PIPE	ZINC COATED (SS)	CORR. PROFILE																					
		THICKNESS																					
	ZINC COATED W/BPI (SS)	CORR. PROFILE																					
		THICKNESS																					
	ALUM. COATED TYPE 2 (SS)	CORR. PROFILE																					
		THICKNESS																					
	POLYMER PRECOATED GALVANIZED (SS)	CORR. PROFILE																					
		THICKNESS																					
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)	CORR. PROFILE																					
		THICKNESS																					
	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE																					
		THICKNESS																					
	STR. PLATE STEEL (C)	CORR. PROFILE																					
		THICKNESS **																					
	STR. PLATE STEEL W/ CFP (C)	CORR. PROFILE																					
		THICKNESS **																					

	STRUCTURE NUMBER																						
	PIPE TYPE / SHAPE (CIR OR DEF)																						
INT. DES.	SMOOTH PIPE SIZE																						
	CORRUGATED PIPE SIZE																						
	SEMI-SMOOTHER PIPE SZIE																						
CONC	RCP / RCHEP (S)	CLASS																					
		$D_{0.01}$ RATING																					
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																						
PLASTIC PIPE	CORRUGATED PE PIPE, TYPE S (S) *																						
	PROFILE WALL (RIBBED) PE PIPE (S) *																						
	PROFILE WALL (CLOSED) PE PIPE (S) *																						
	SMOOTH WALL PE PIPE (S) * / MAXIMUM DR																						
	CORRUGATED PP PIPE (S)																						
	PROFILE WALL PVC PIPE (S)																						
	SMOOTH WALL PVC PIPE (S) *																						
CLAY	VIRTIFIED CLAY PIPE, EXTRA STRENGTH (S)																						
CORRUGATED STEEL PIPE/PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE																					
		THICKNESS																					
	ZINC COATED (C)	CORR. PROFILE																					
		THICKNESS																					
	ZINC COATED W/ BPI (C)	CORR. PROFILE																					
		THICKNESS																					
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE																					
		THICKNESS																					
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE																					
		THICKNESS																					
	POLYMER PRECOATED GALV. CORR. STEEL PIPE TYPE IA(S)	CORR. PROFILE																					
		THICKNESS																					
COR. ALUM. PIPE/ P-ARCH	CORRUGATED ALUM. ALLOY (C)	CORR. PROFILE																					
		THICKNESS																					
	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE																					
		THICKNESS																					
SPIRAL RIB STEEL PIPE	ZINC COATED (SS)	CORR. PROFILE																					
		THICKNESS																					
	ZINC COATED W/BPI (SS)	CORR. PROFILE																					
		THICKNESS																					
	ALUM. COATED TYPE 2 (SS)	CORR. PROFILE																					
		THICKNESS																					
	POLYMER PRECOATED GALVANIZED (SS)	CORR. PROFILE																					
		THICKNESS																					
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)	CORR. PROFILE																					
		THICKNESS																					
	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE																					
		THICKNESS																					
	STR. PLATE STEEL (C)	CORR. PROFILE																					
		THICKNESS **																					
	STR. PLATE STEEL W/ CFP (C)	CORR. PROFILE																					
		THICKNESS **																					

1 220, 222, 226

2 228, 268, 336, 338, 342

3 216, 236, 238, 260, 264, 326, 330, 334, 346, 348

4 250, 252, 258, 262, 266, 270, 274, 278, 282, 286

5 214, 230, 232, 234, 236, 238, 240, 242, 244, 248, 252, 256, 260, 264, 272, 276, 280, 284, 288, 292, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 328, 330, 332, 334, 340, 344, 356, 358, 360, 362, 364, 366, 368, 370, 375

6 375, 376, 377, 378

7 246, 290, 294

LEGEND

RCP – REINFORCED CONCRETE PIPE
PCHEP – REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
PE – POLYTHYLENE
DR – DIMENSION RATIO
PVC – POLYVINYL CHLORIDE
BIT – BITUMINOUS
CORR – CORRUGATION
BPI – BITUMINOUS PAVED INVERT
ALUM – ALUMINUM
STR – STRUCTURAL
CFP – CONCRETE FIELD PAVING
CIR – CIRCULAR PIPE
DEF – DEFORMED PIPE
(S) – SMOOTH PIPE MATERIAL
(C) – CORRUGATED PIPE MATERIAL
OK – LOCK SEAM PIPE REQUIRED
(LS) – TABULATED THICKNESS
* – REFER TO STANDARD DRAWING 715-PHCL-18 OR 19 FOR NOMINAL DIAMETER APPROPRIATE FOR PAY ITEM DIAMETER
** – TABULATED THICKNESS REFERs TO TOP AND SIDE PLATES. BOTTOM PLATE SHALL BE OF GREATER AVAILABLE THICKNESS.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

PIPE MATERIAL SHEET

HORIZONTAL SCALE	BRIDGE FILE
NA	
VERTICAL SCALE	DESIGNATION
NA	1401702
SURVEY BOOK	SHEETS
	88 of 148
CONTRACT	PROJECT
R-38240	1401702

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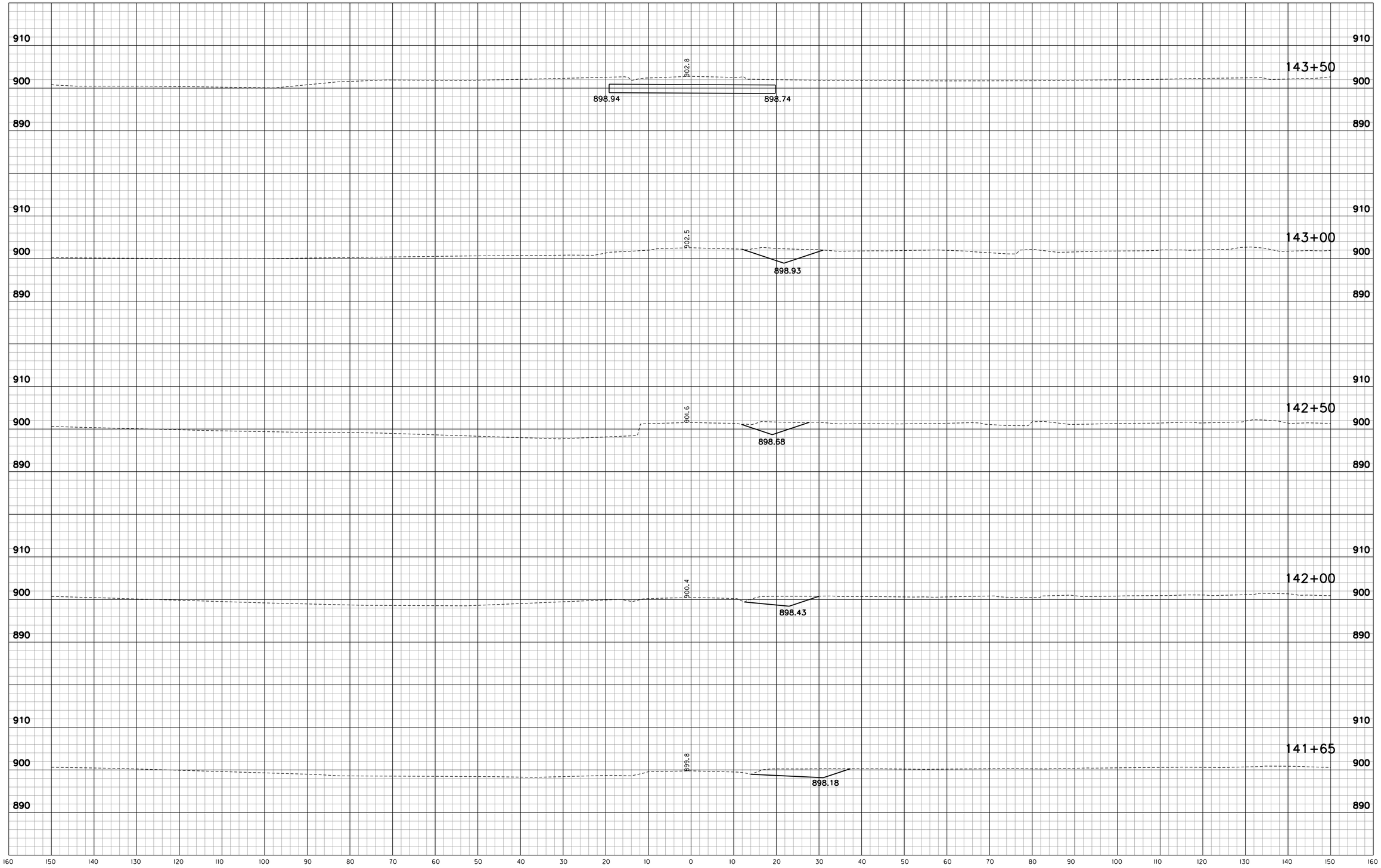

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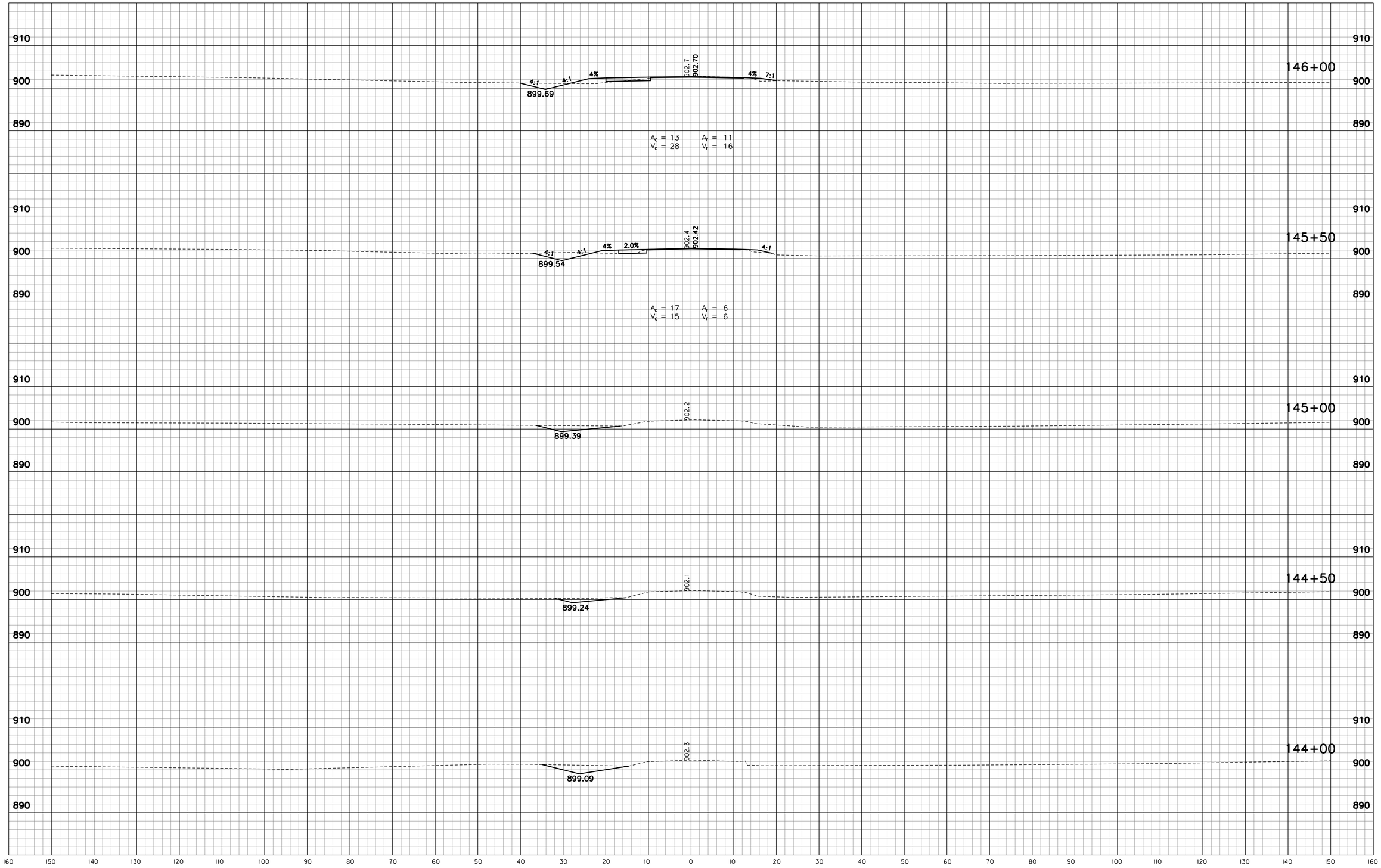
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 141+65 TO STA. 143+50 "PR-1" & "PR-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	89 of 148
CONTRACT	PROJECT
R-38240	1401702



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PDF.pltcfg
INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

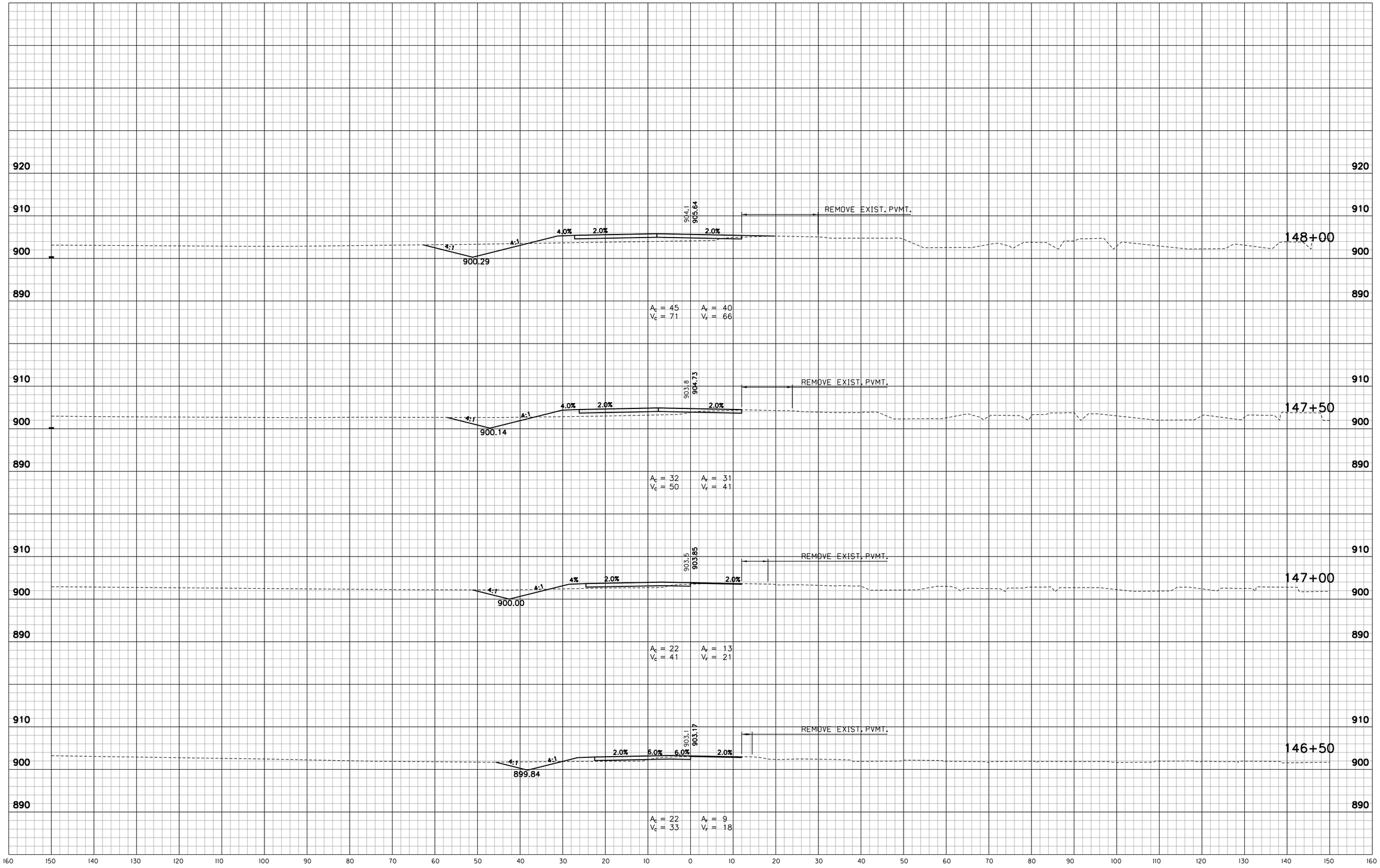
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 144+00 TO STA. 146+00 "PR-1" & "PR-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	90 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

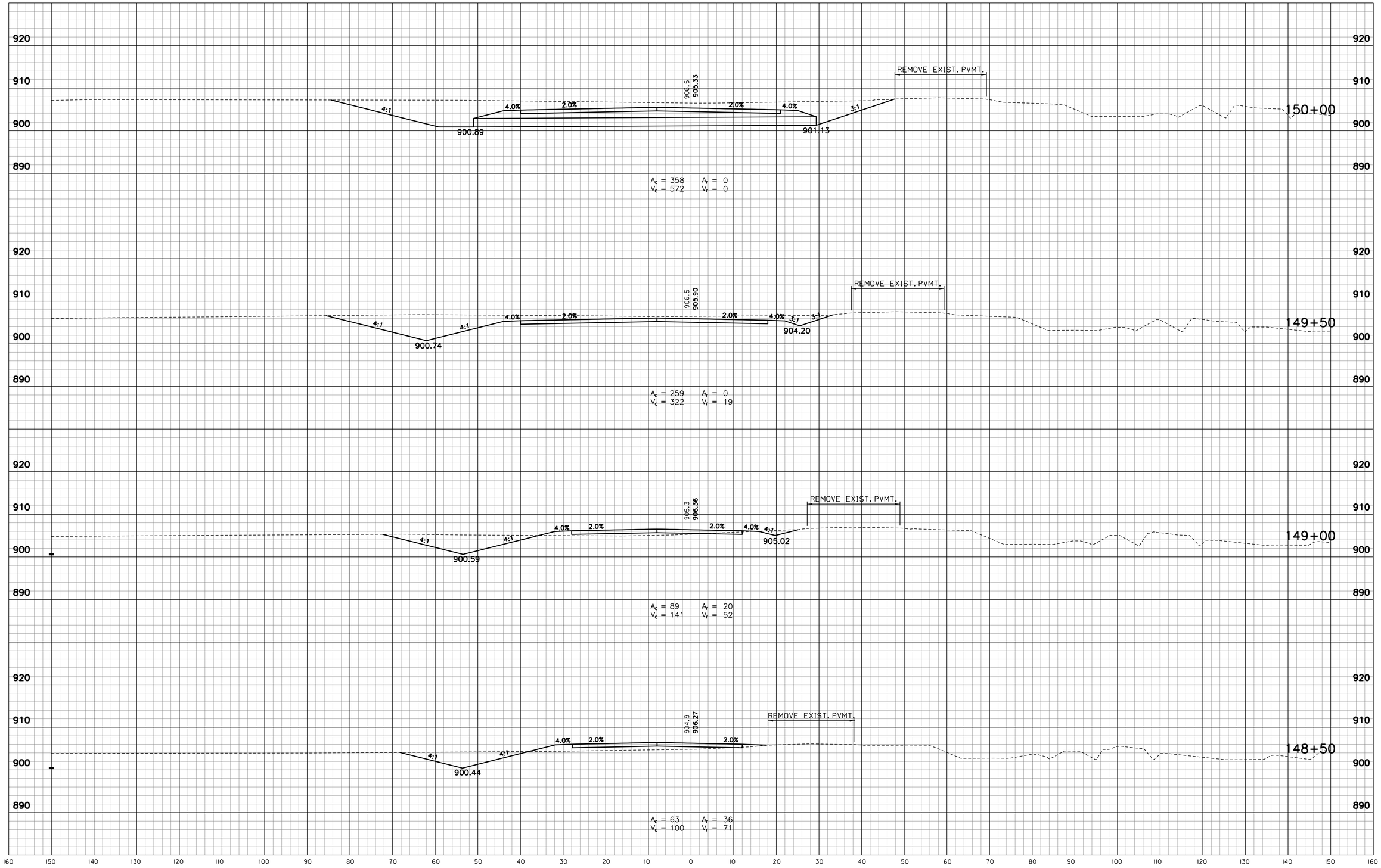
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 146+50 TO STA. 148+00 "PR-1" & "PR-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	91 of 148
CONTRACT	PROJECT
R-38240	1401702



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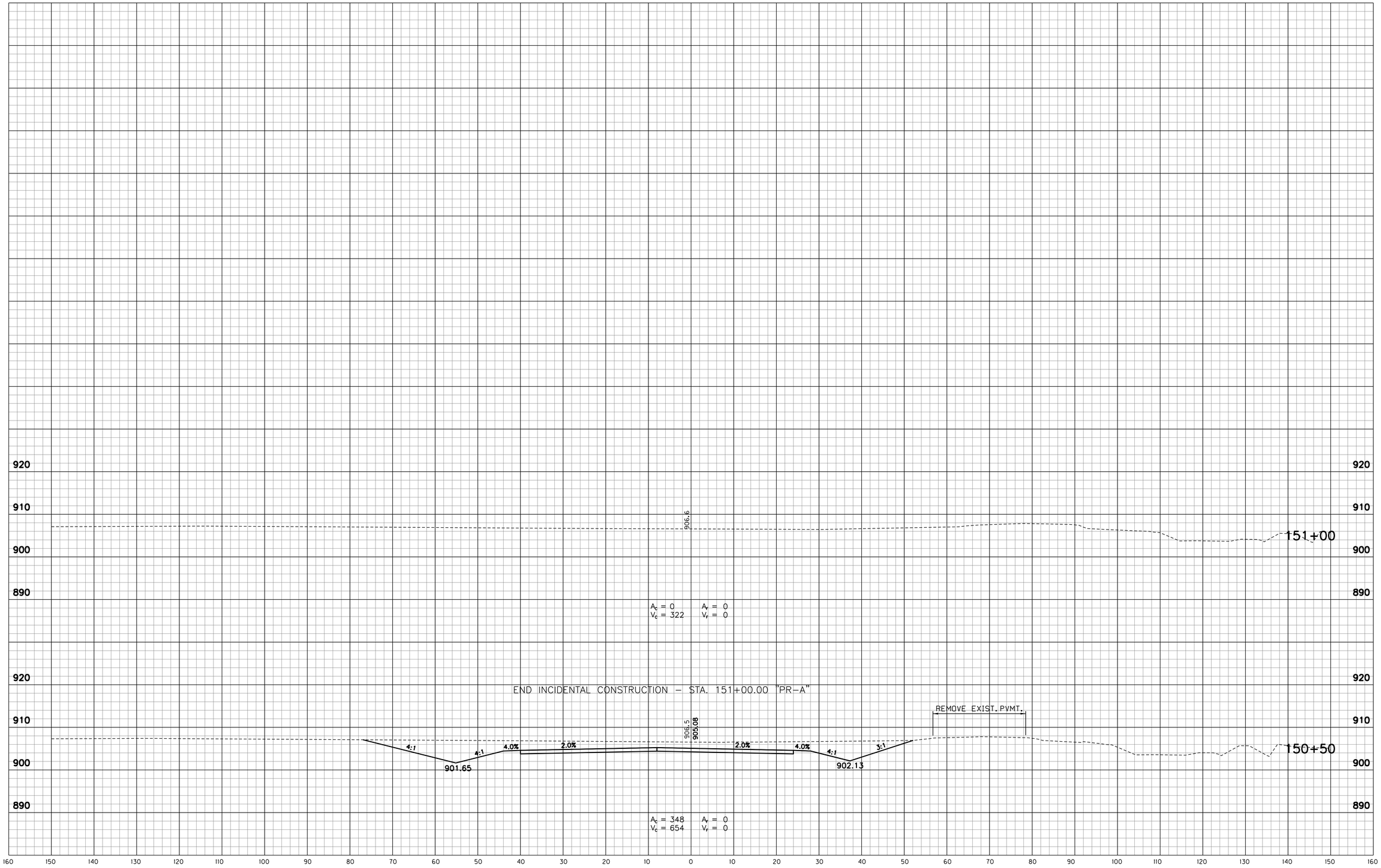
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 148+50 TO STA. 150+00 "PR-1" & "PR-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	92 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

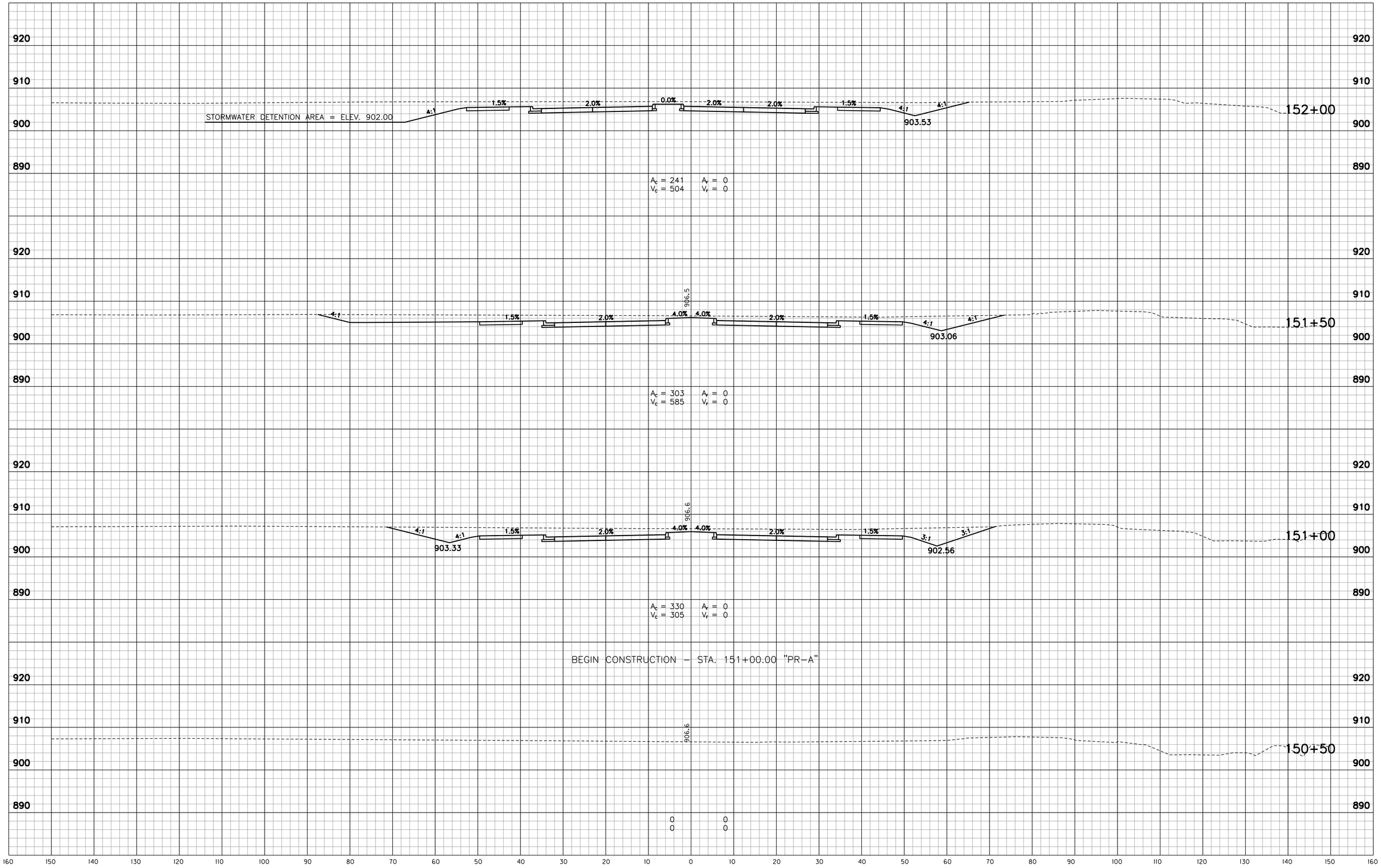
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 150+50 TO STA. 151+00 "PR-1" & "PR-2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	93 of 148
CONTRACT	PROJECT
R-38240	1401702



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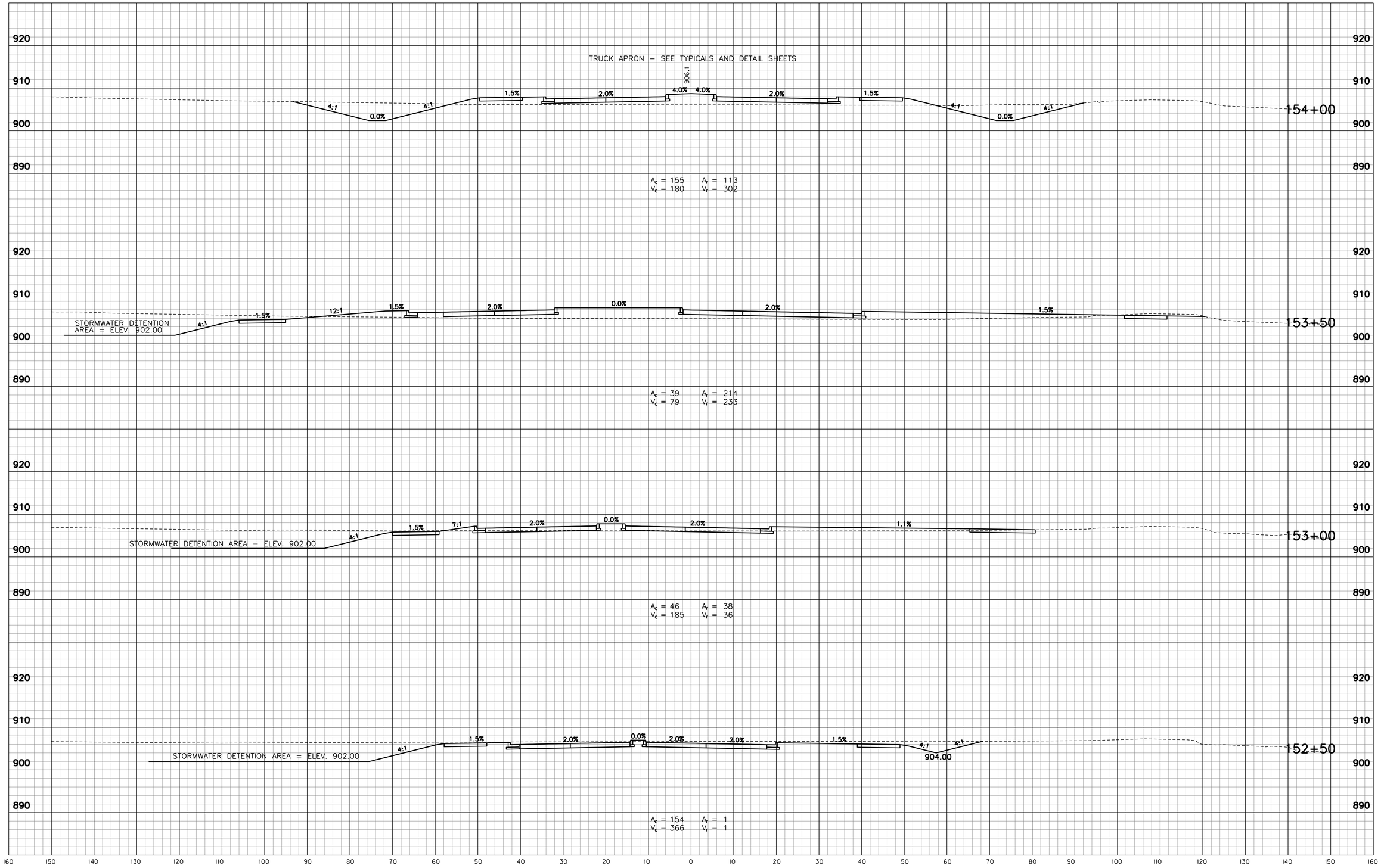
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 150+50 TO STA. 152+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	94 of 148
CONTRACT	PROJECT
R-38240	1401702



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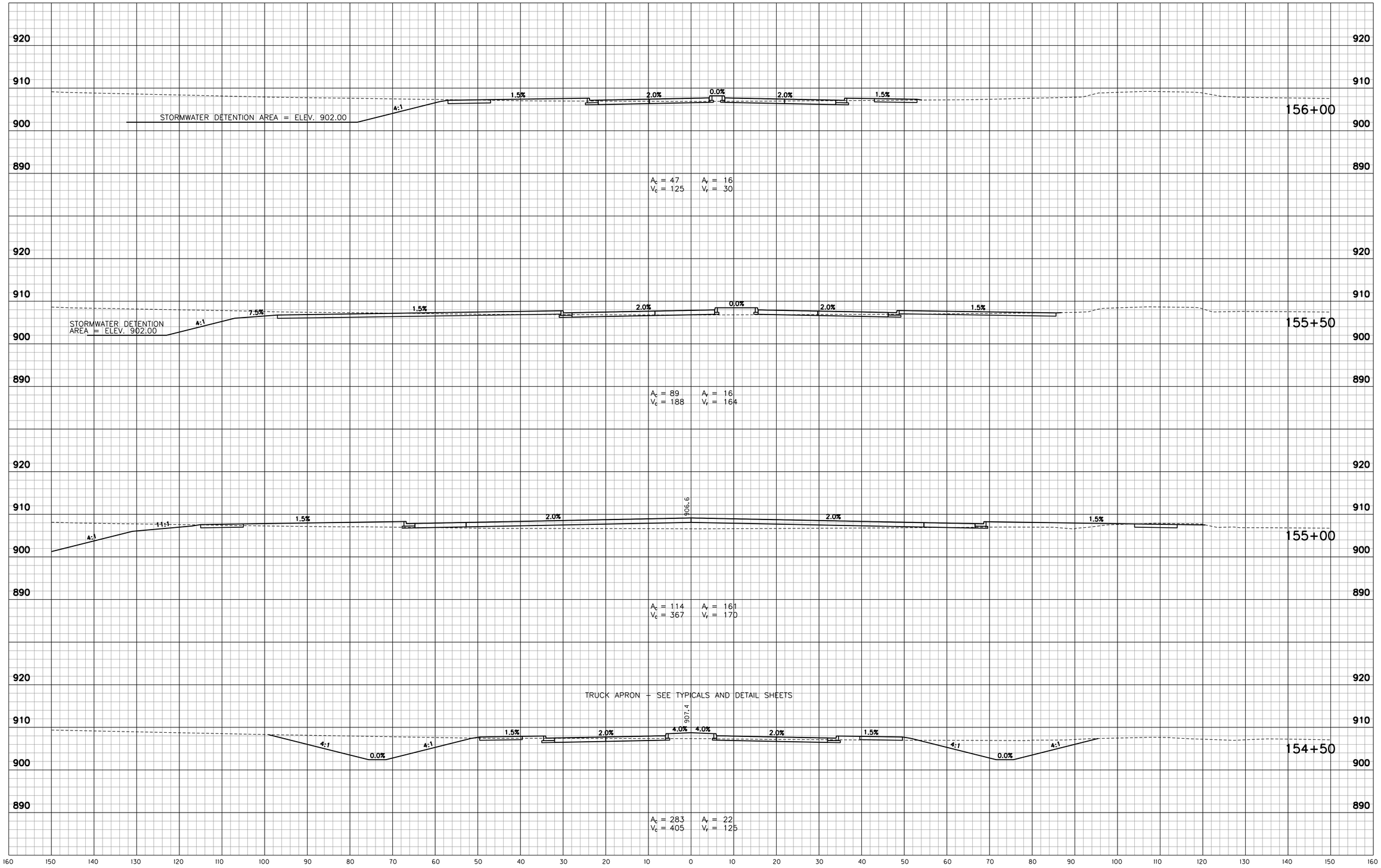
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 152+50 TO STA. 154+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	95 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 154+50 TO STA. 156+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	96 of 148
CONTRACT	PROJECT
R-38240	1401702

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INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

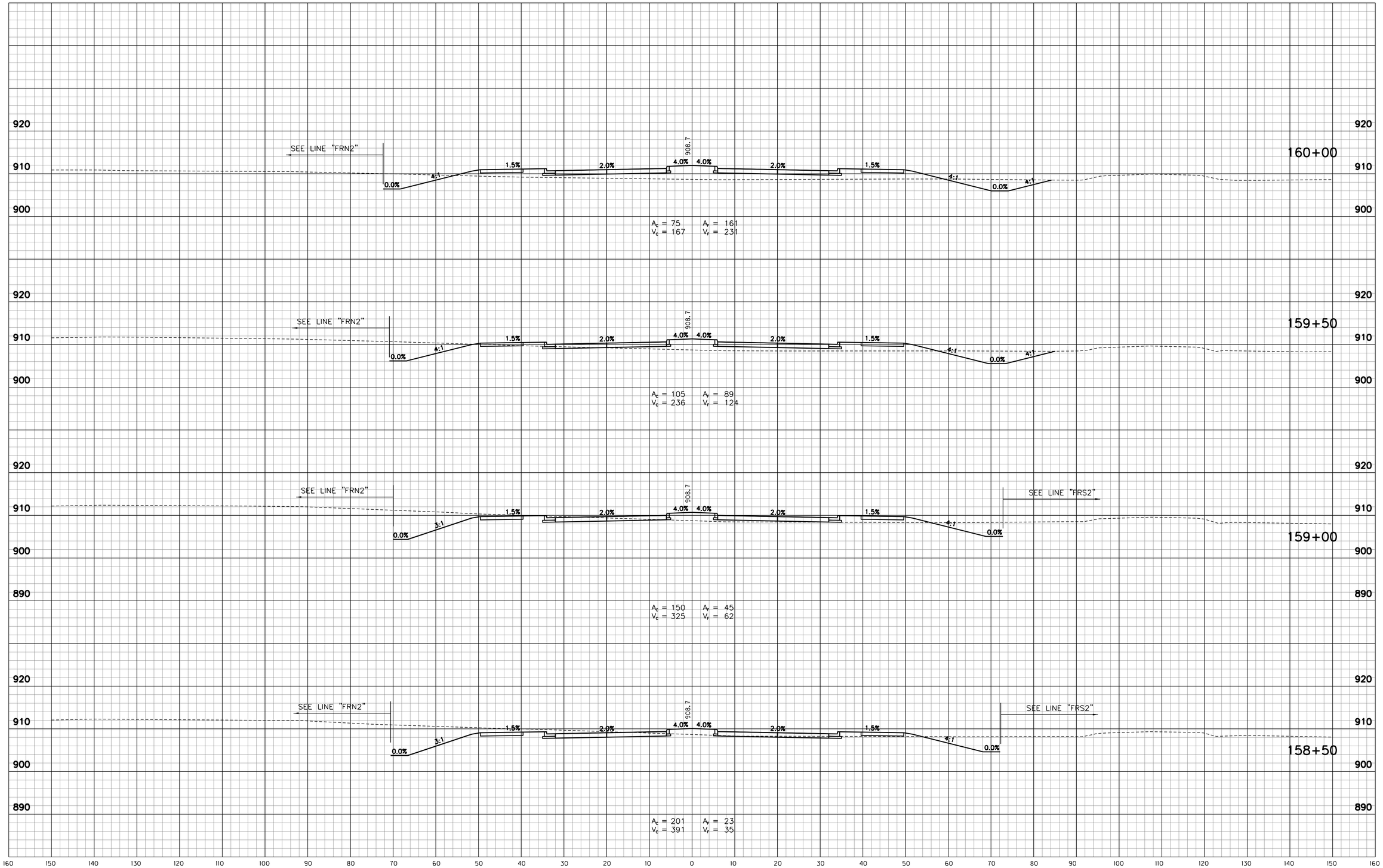
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 156+50 TO STA. 158+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	97 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

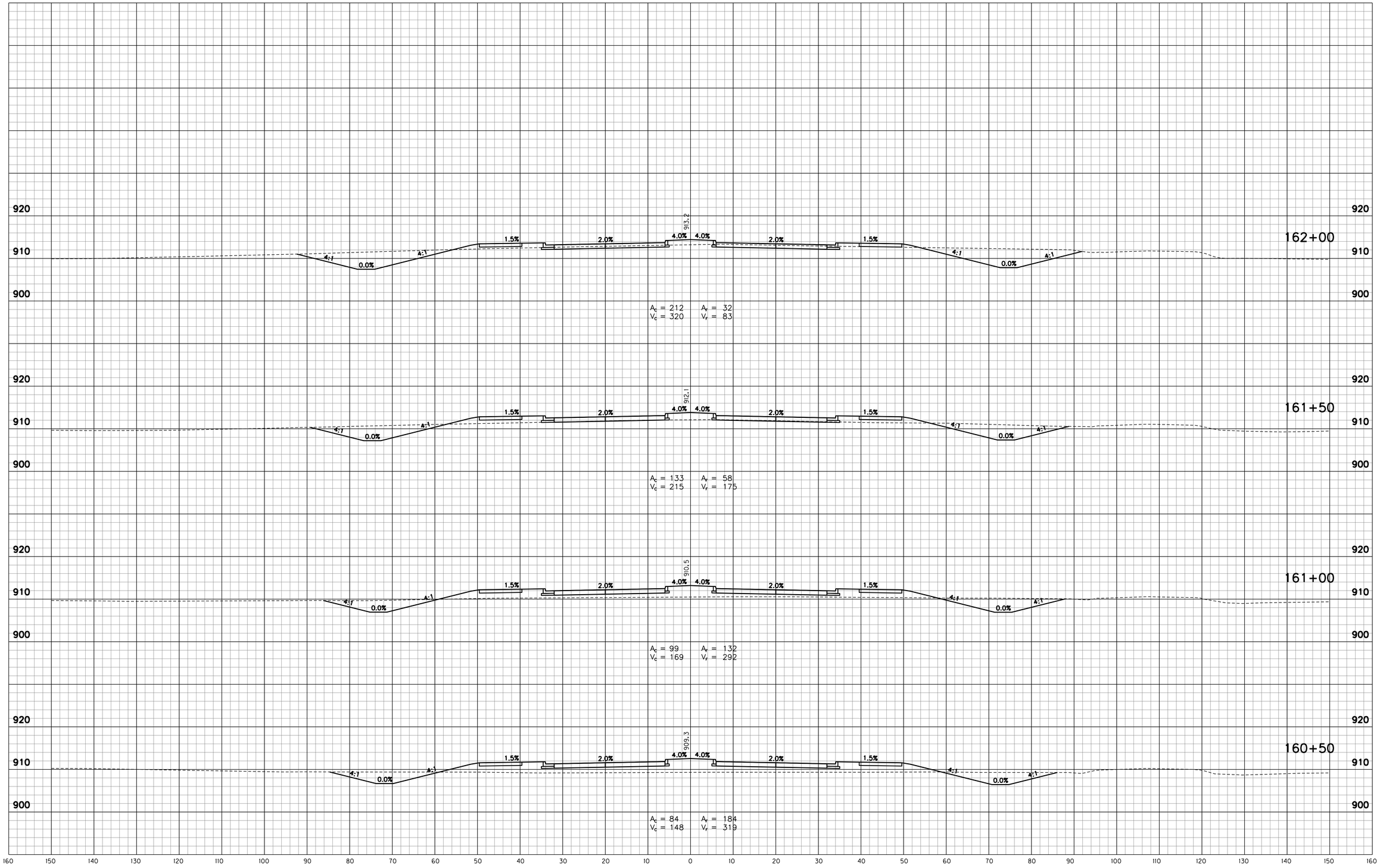
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 158+50 TO STA. 160+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	98 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

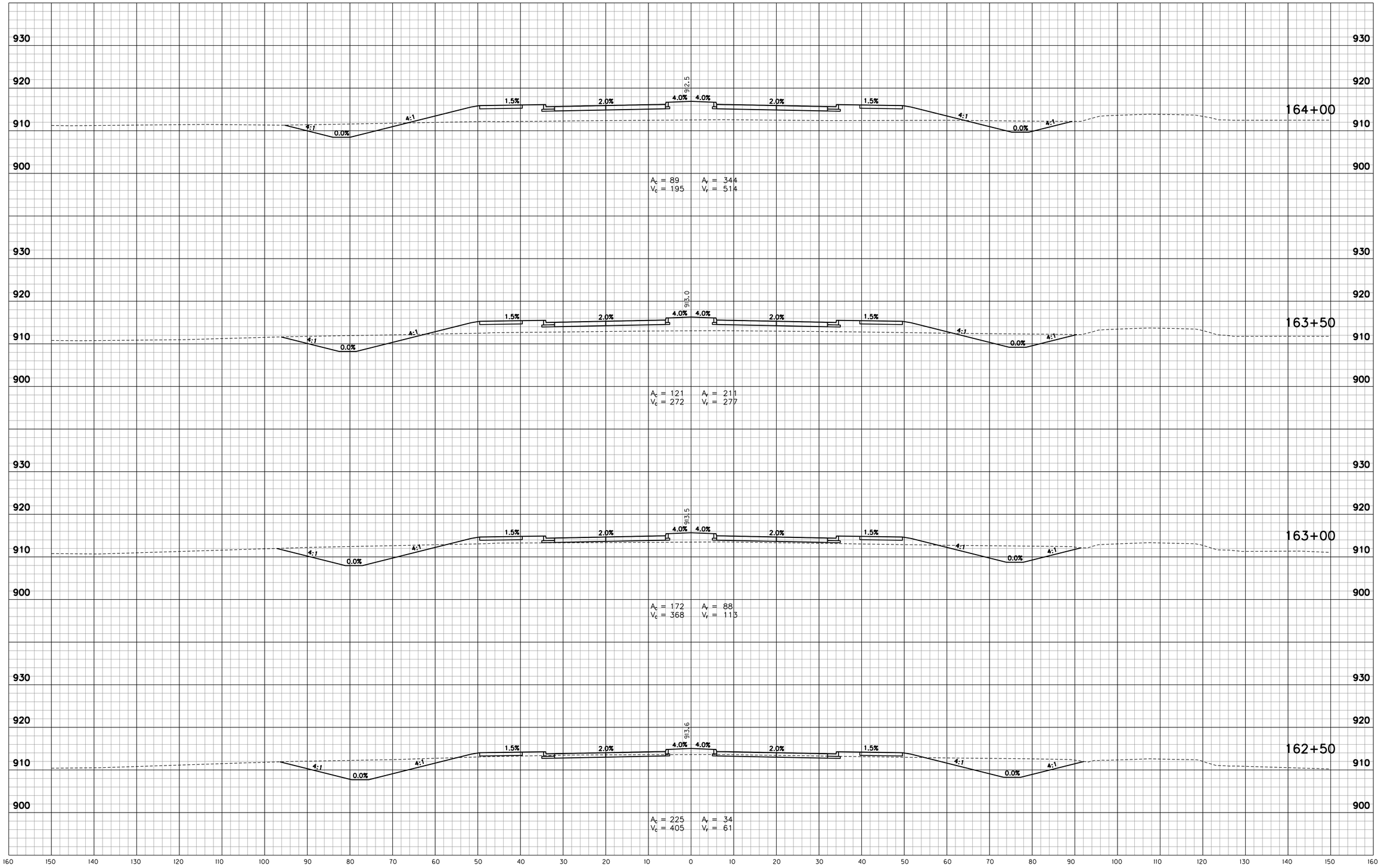
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 160+50 TO STA. 162+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	99 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

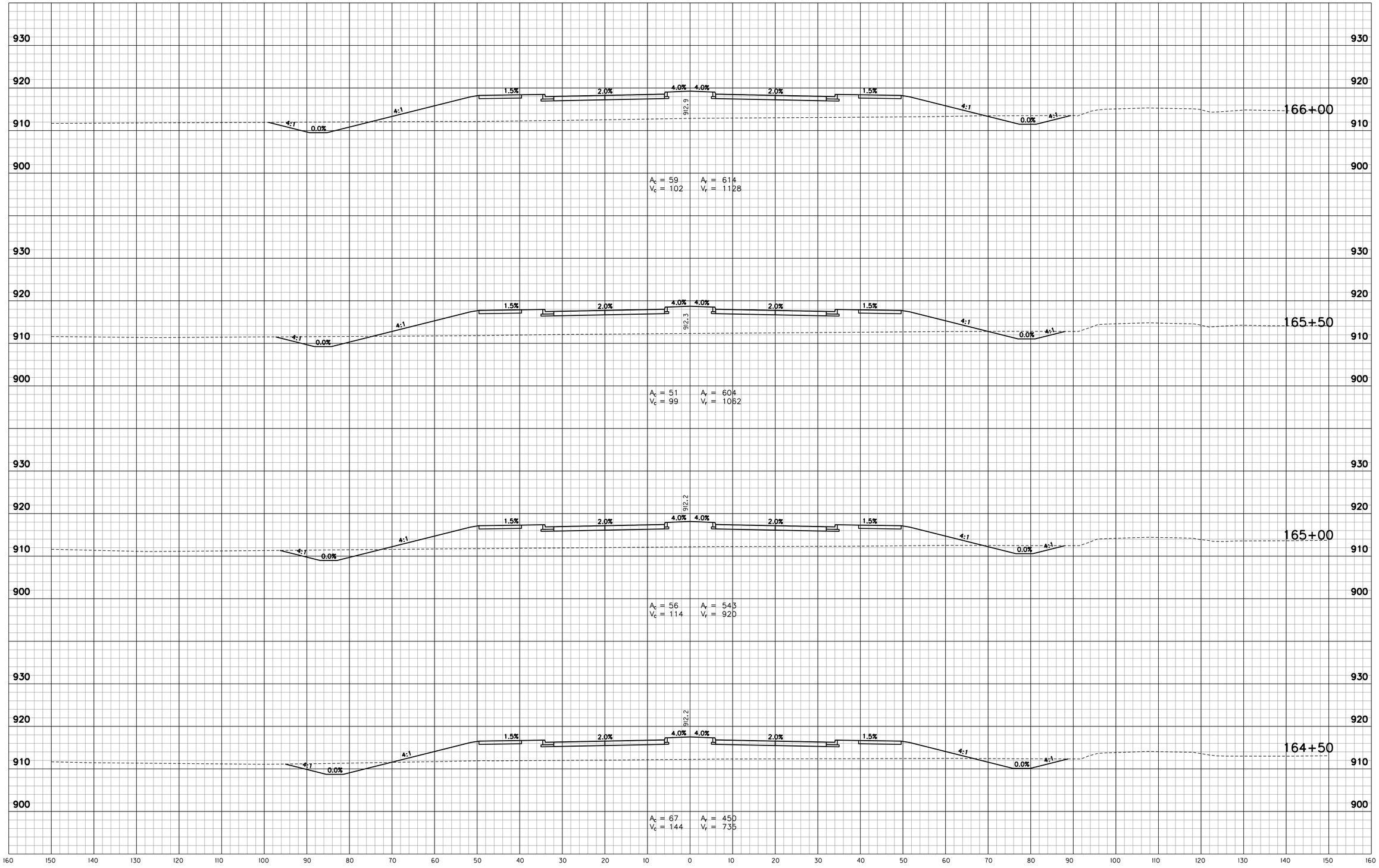
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 162+50 TO STA. 164+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	100 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

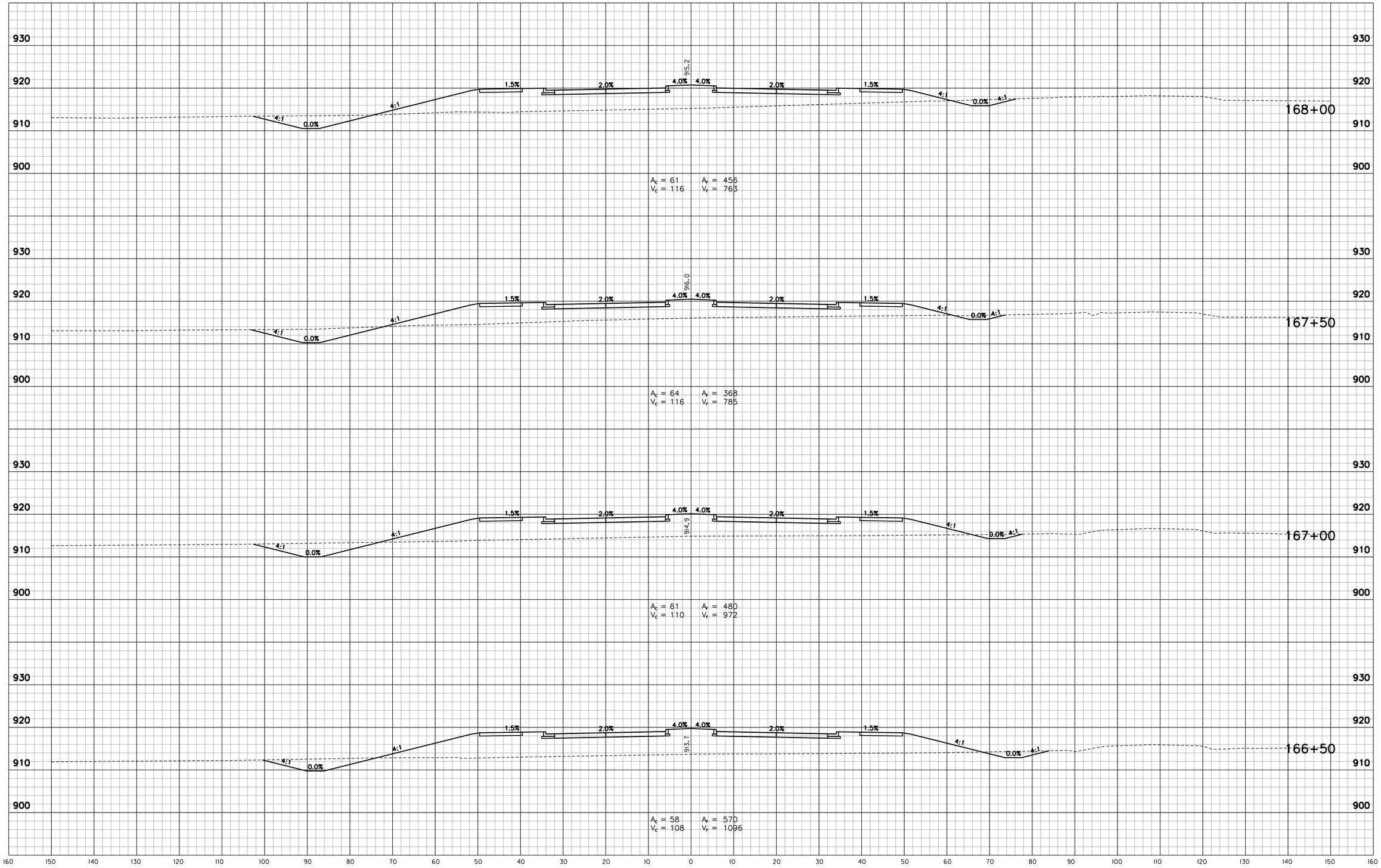
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 164+50 TO STA. 166+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	101 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

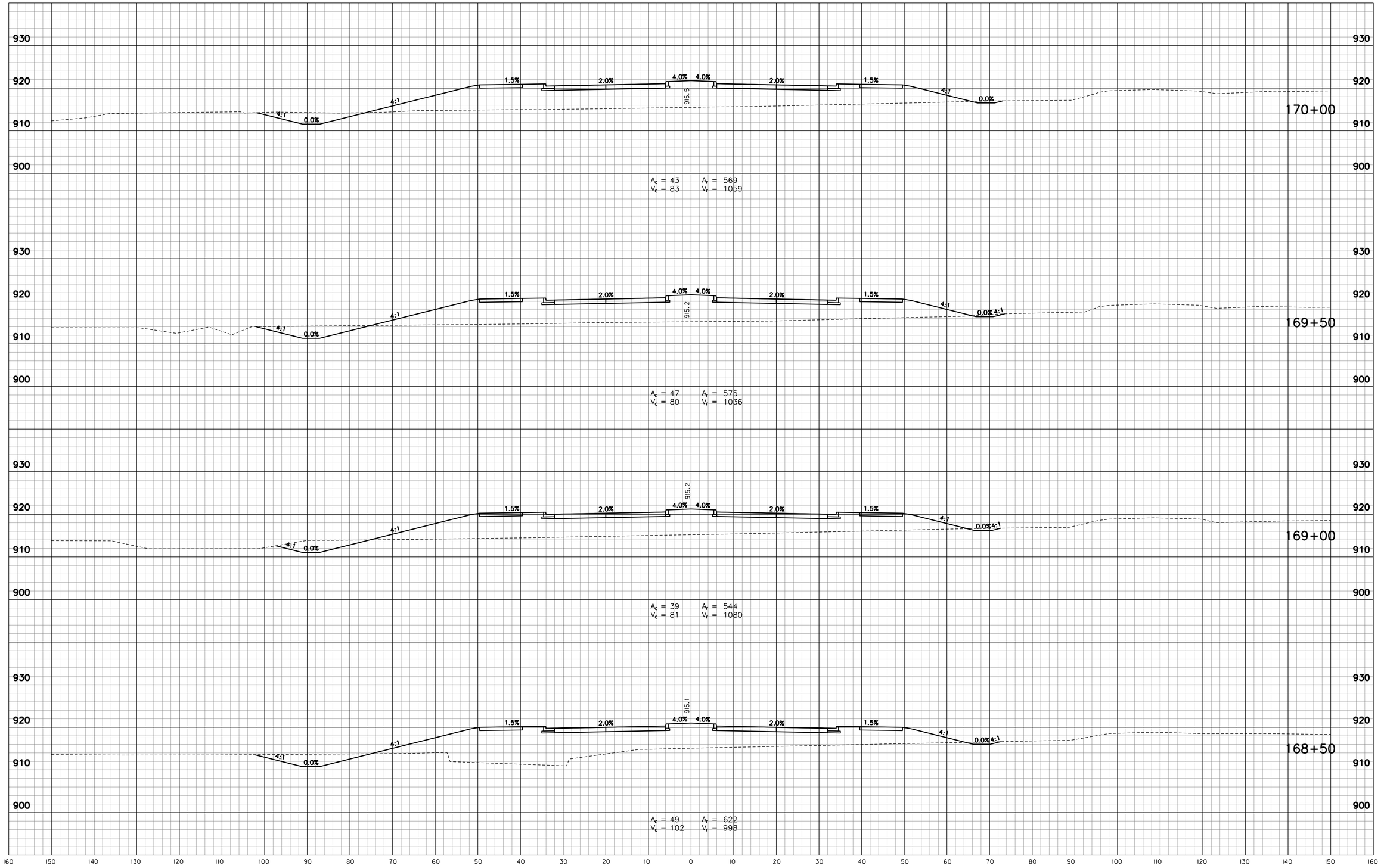
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 166+50 TO STA. 168+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	102 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

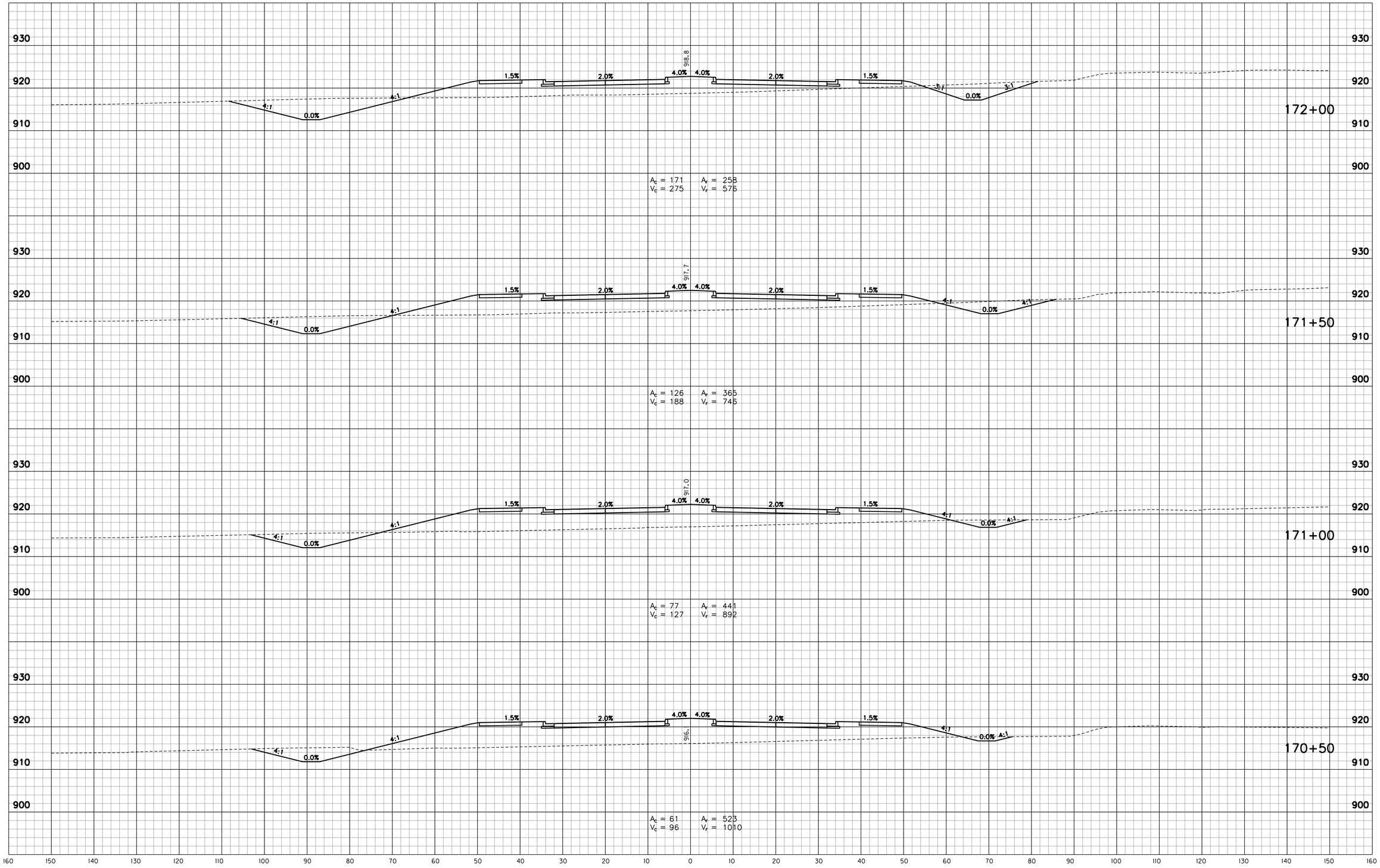
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 168+50 TO STA. 170+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	103 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

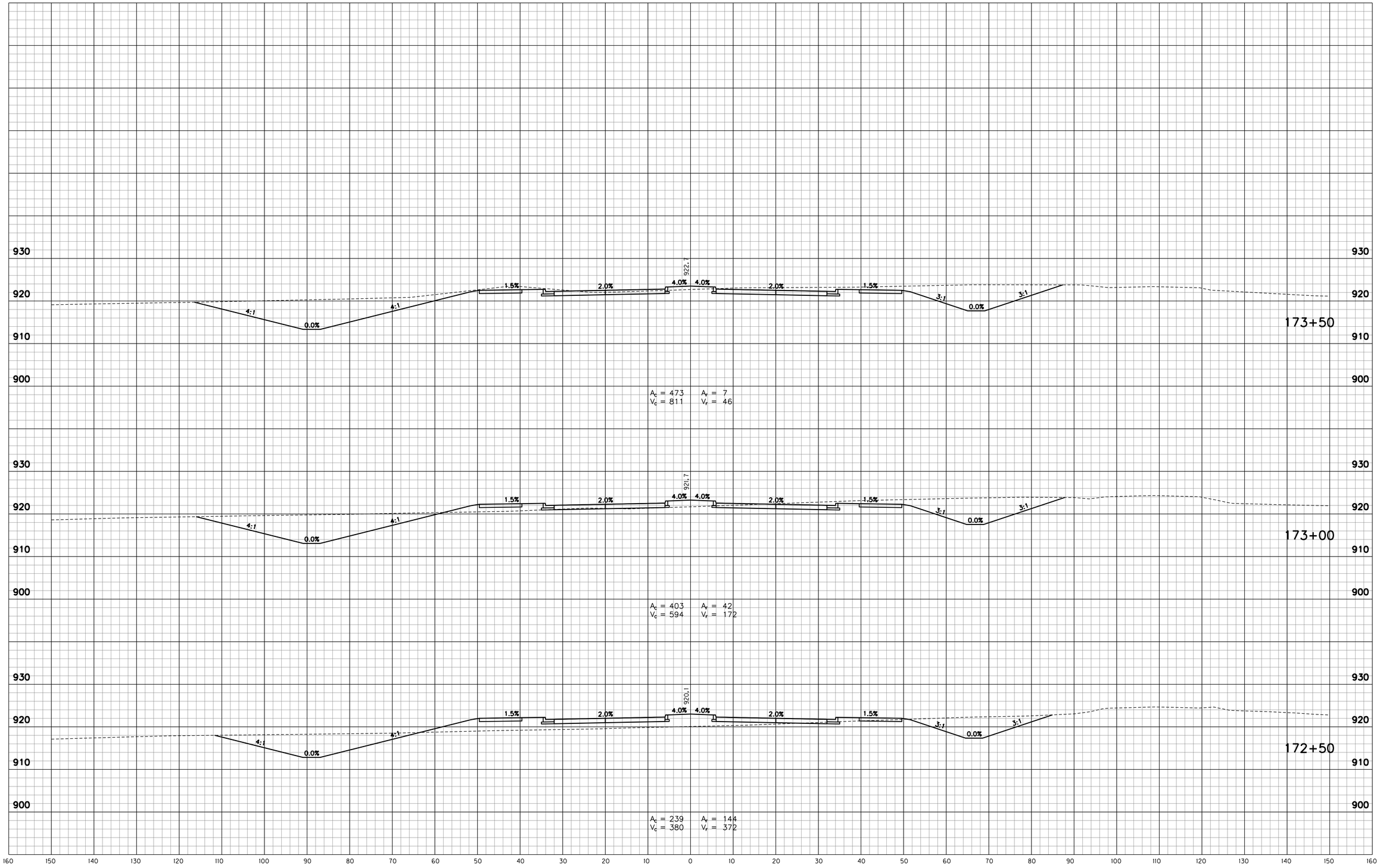
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 170+50 TO STA. 172+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	104 of 148
CONTRACT	PROJECT
R-38240	1401702



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PDF.pltcfg
INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

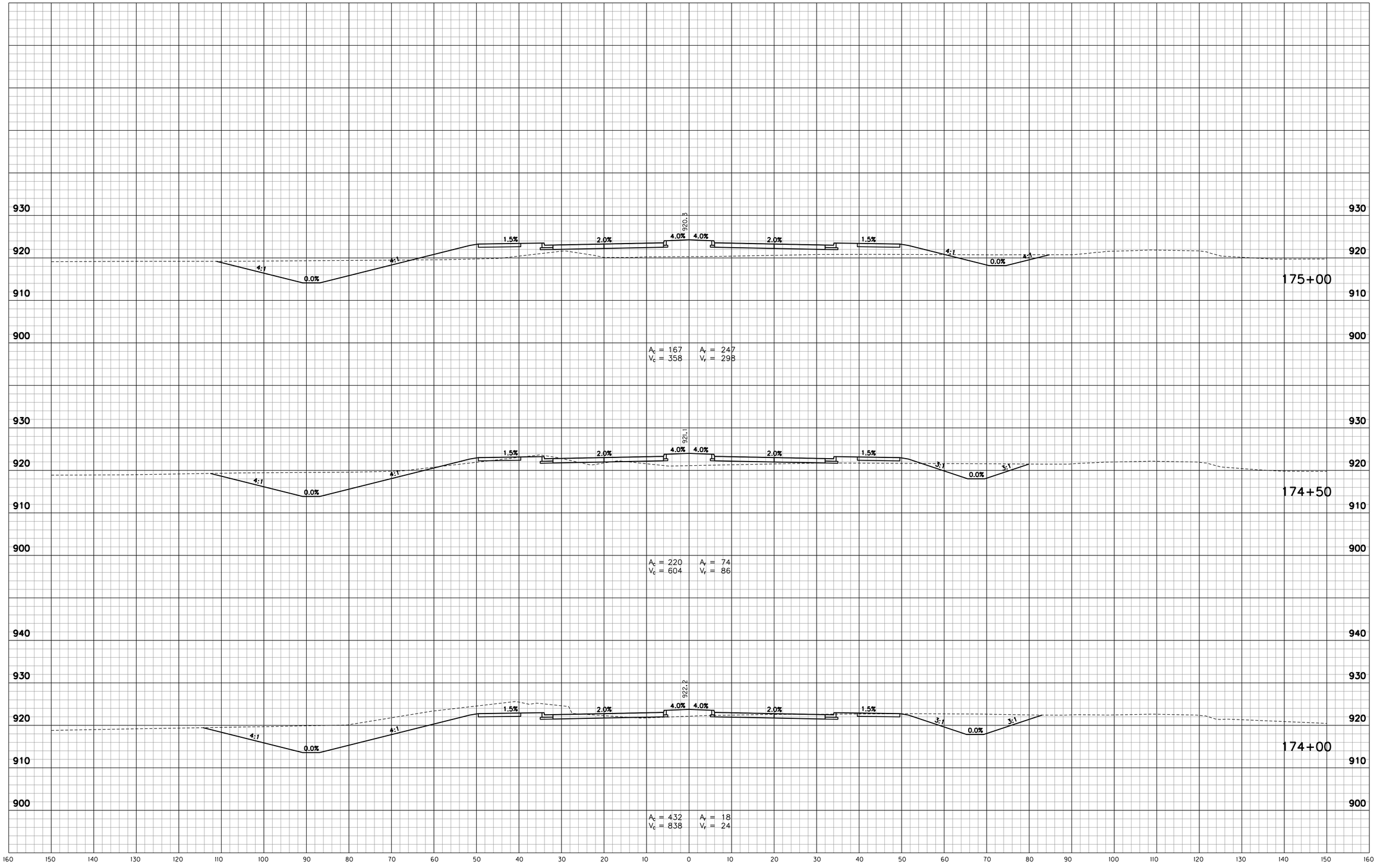
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 172+50 TO STA. 173+50 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	105 of 148
CONTRACT	PROJECT
R-38240	1401702



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PDF.pltcfg
INDOT.tbl

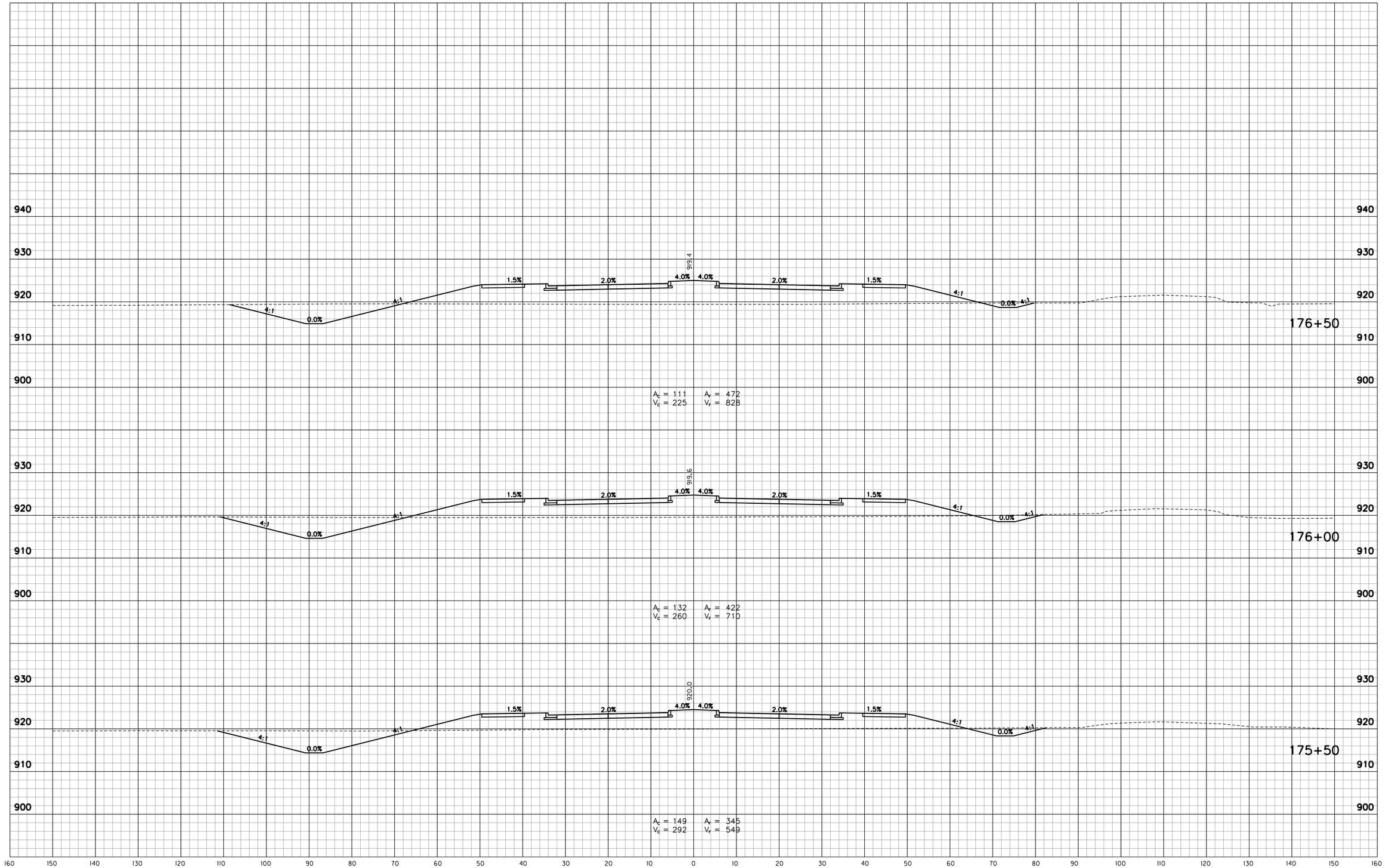
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 174+00 TO STA. 175+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	106 of 148
CONTRACT	PROJECT
R-38240	1401702



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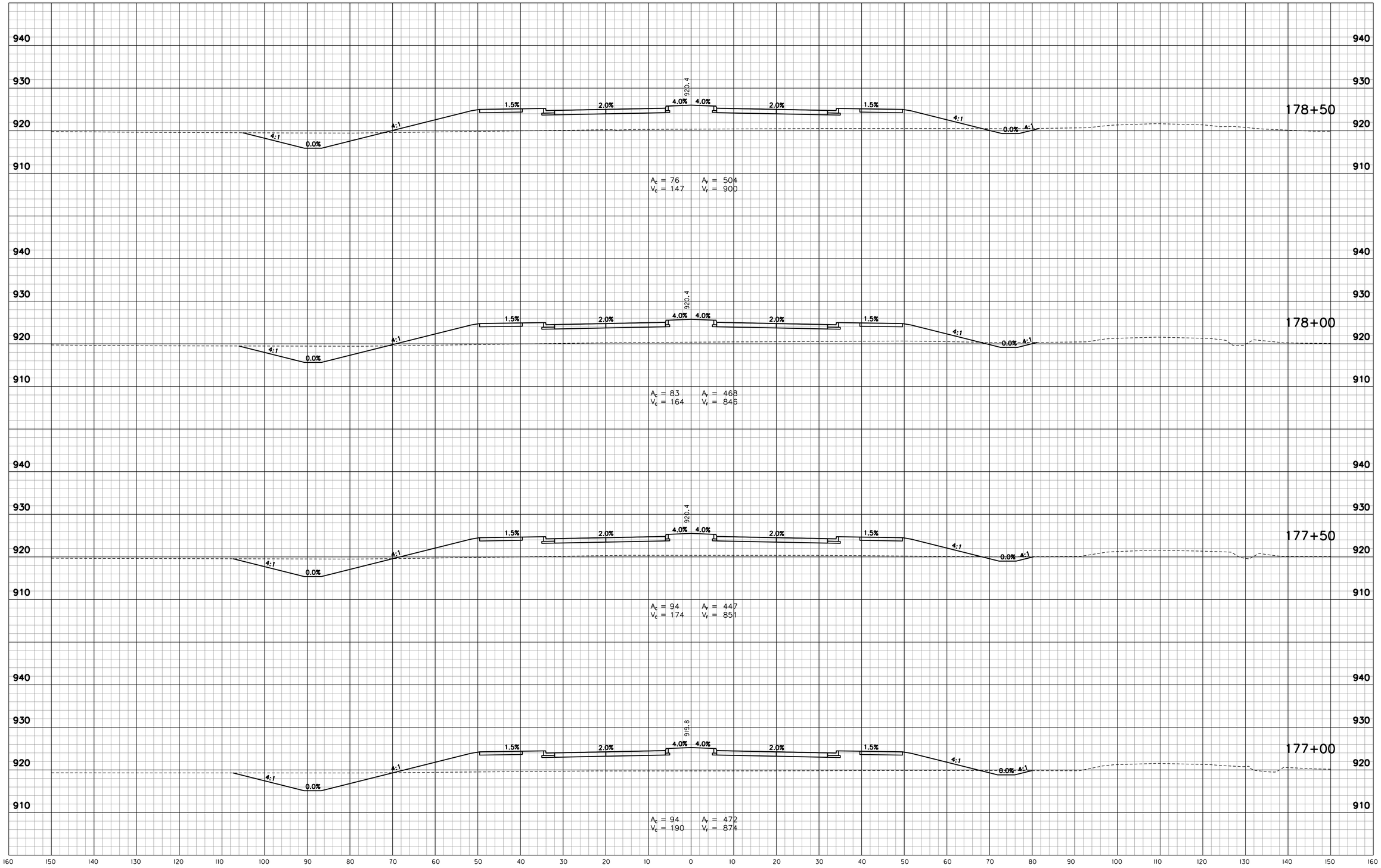
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 175+50 TO STA. 176+50 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	107 of 148
CONTRACT	PROJECT
R-38240	1401702



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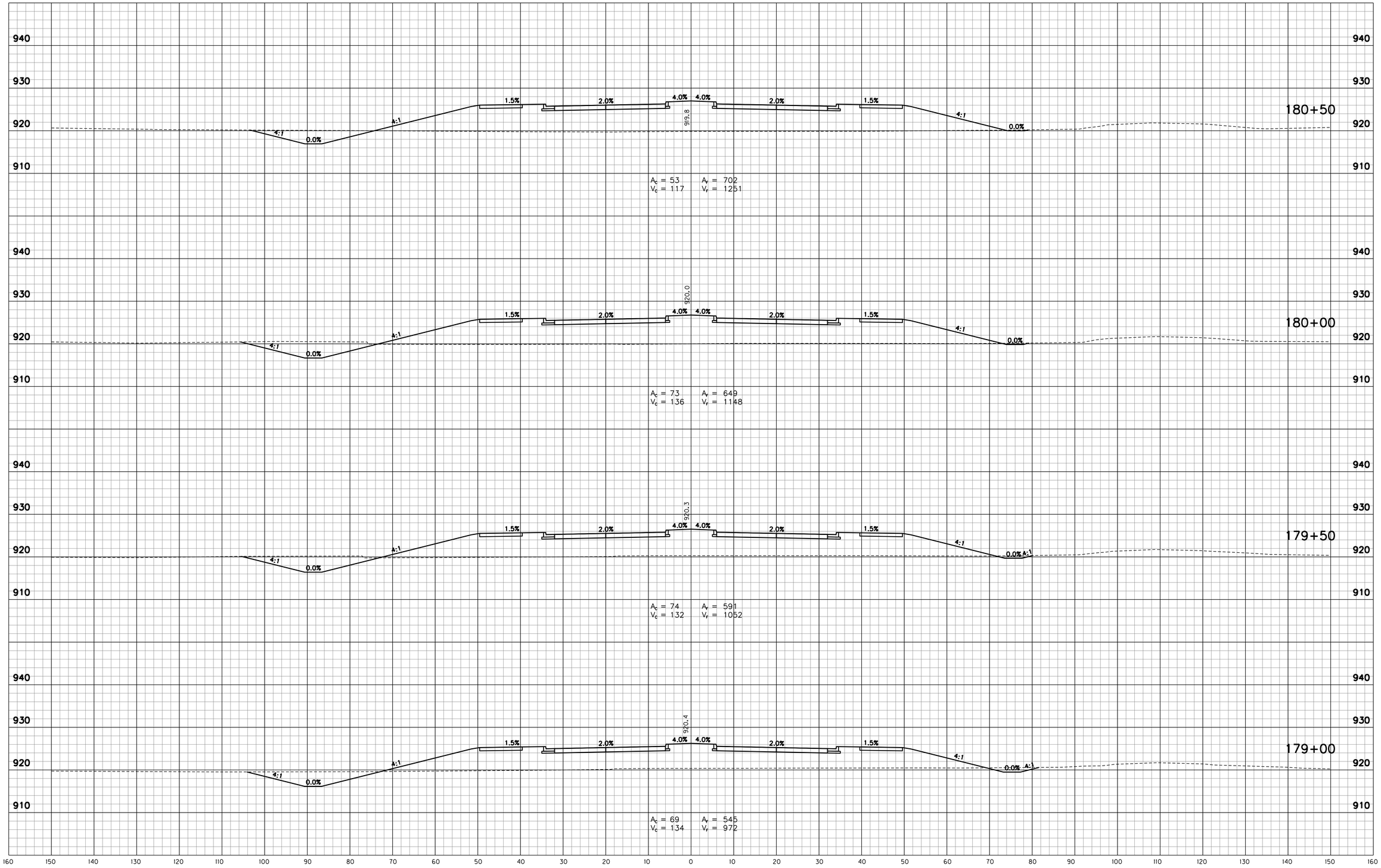
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 177+00 TO STA. 178+50 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	108 of 148
CONTRACT	PROJECT
R-38240	1401702



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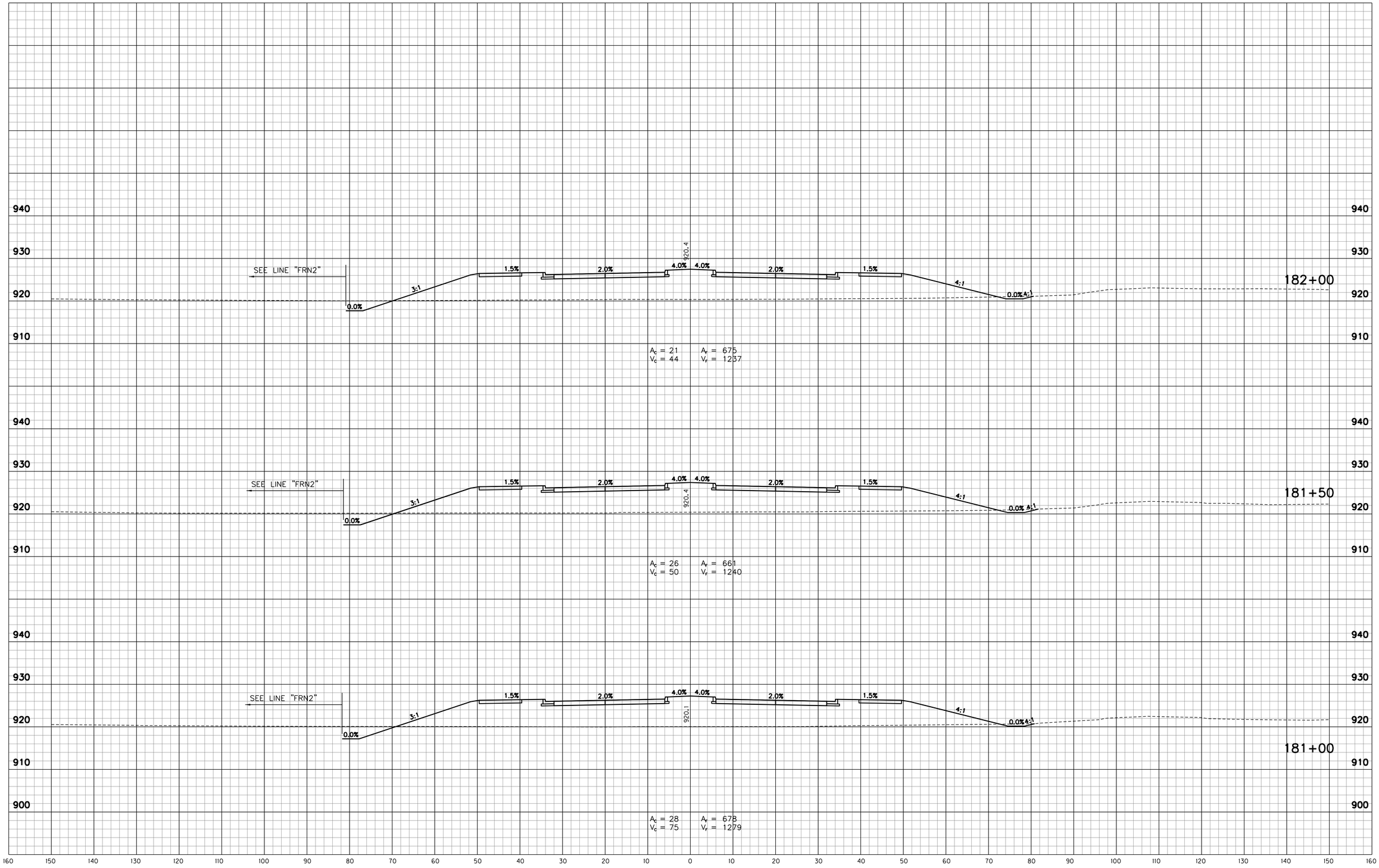
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 179+00 TO STA. 180+50 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	109 of 148
CONTRACT	PROJECT
R-38240	1401702



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PDF.pltcfg
INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

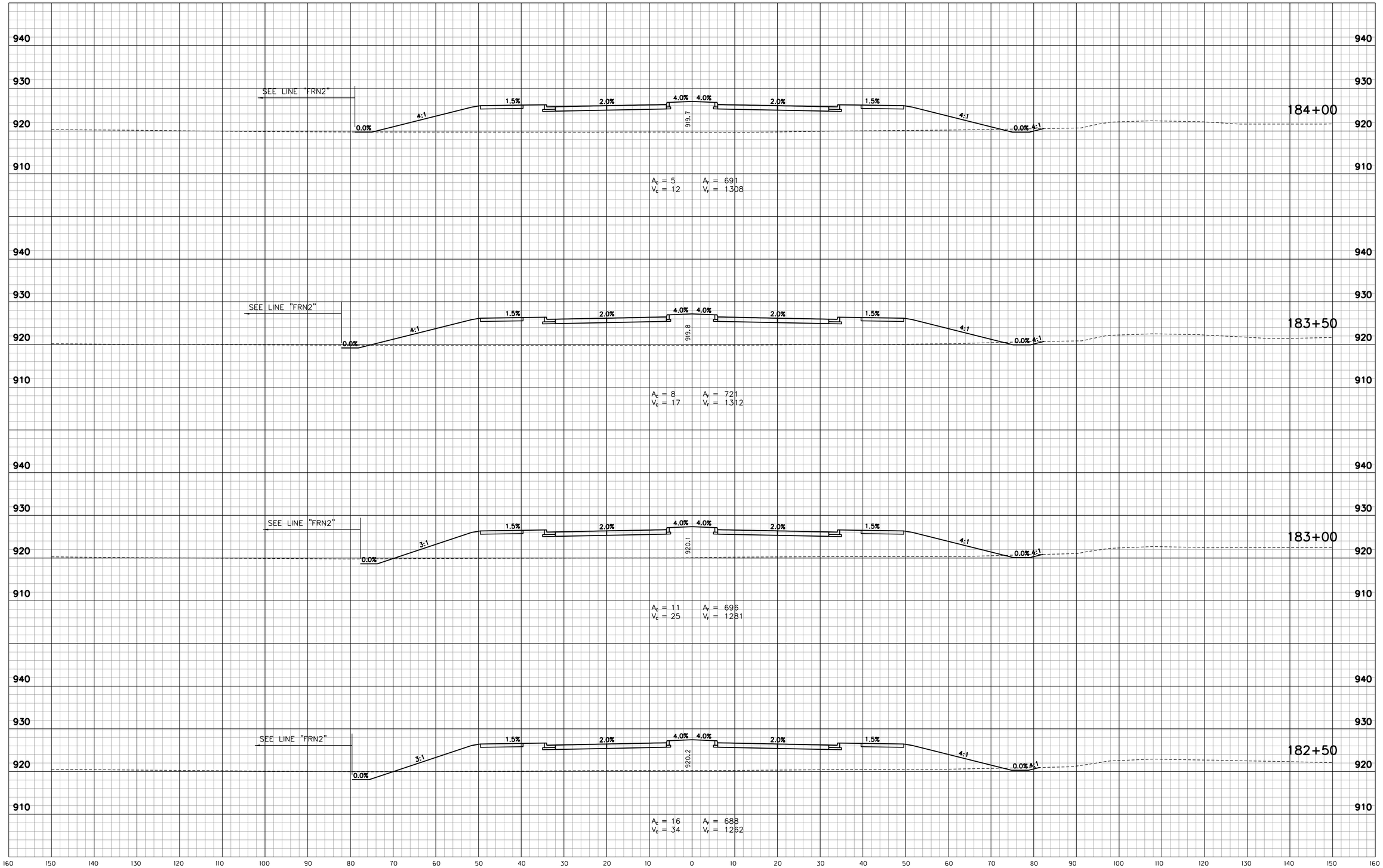
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 181+00 TO STA. 182+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	110 of 148
CONTRACT	PROJECT
R-38240	1401702



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MicroStation V8 XM

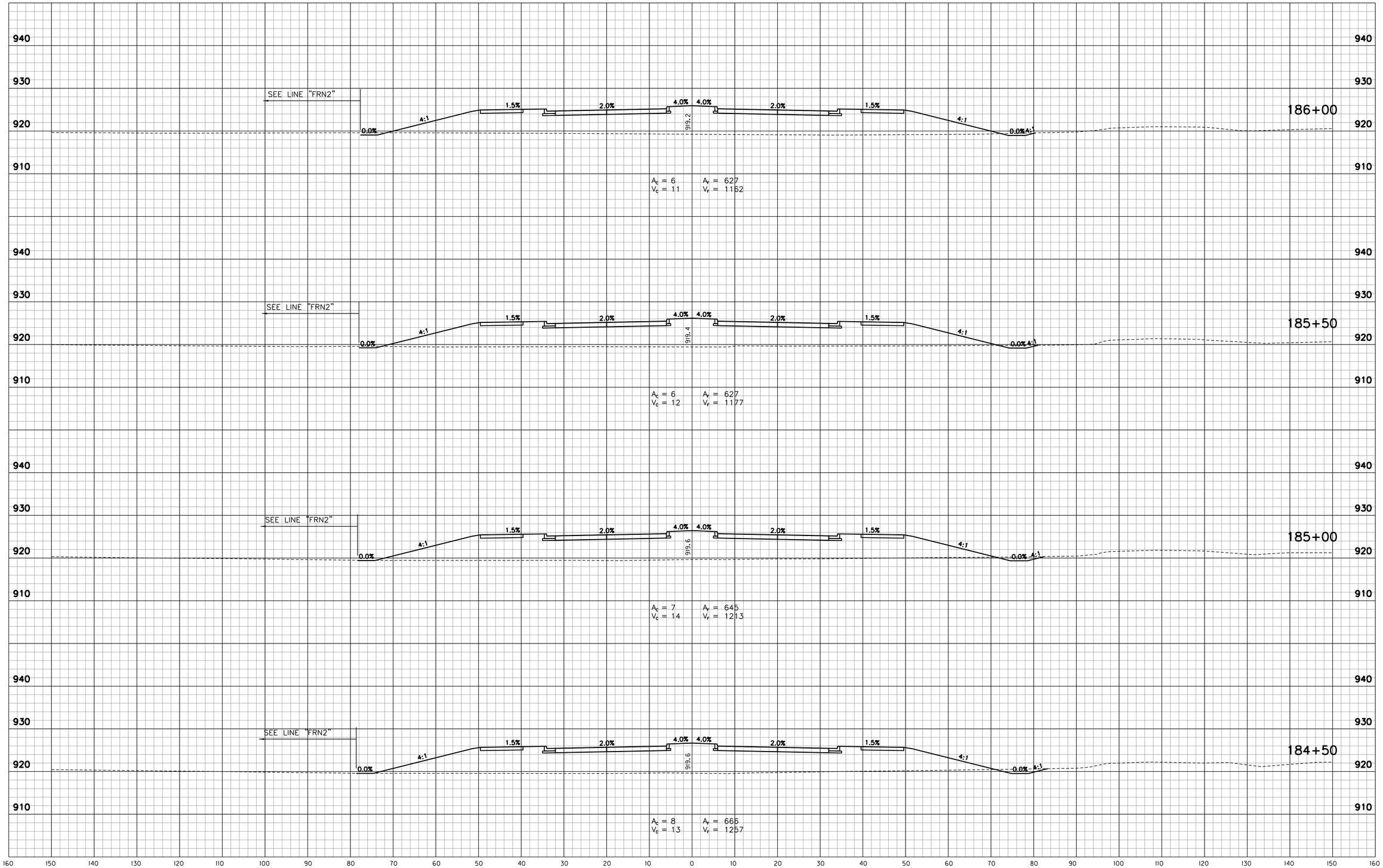
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 182+50 TO STA. 184+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	111 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

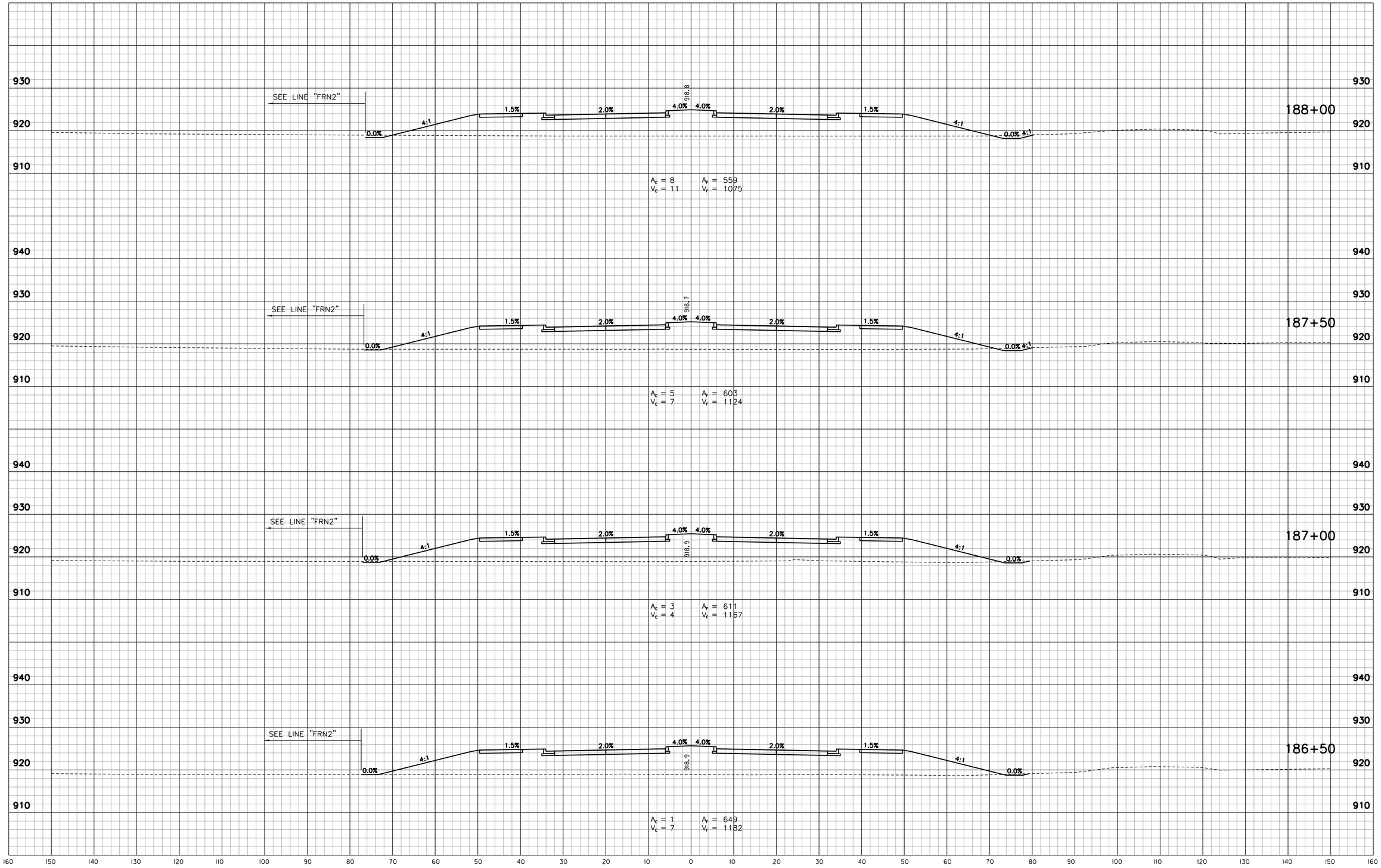
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 184+50 TO STA. 186+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	112 of 148
CONTRACT	PROJECT
R-38240	1401702



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PDF.pltcfg
INDOT.tbl

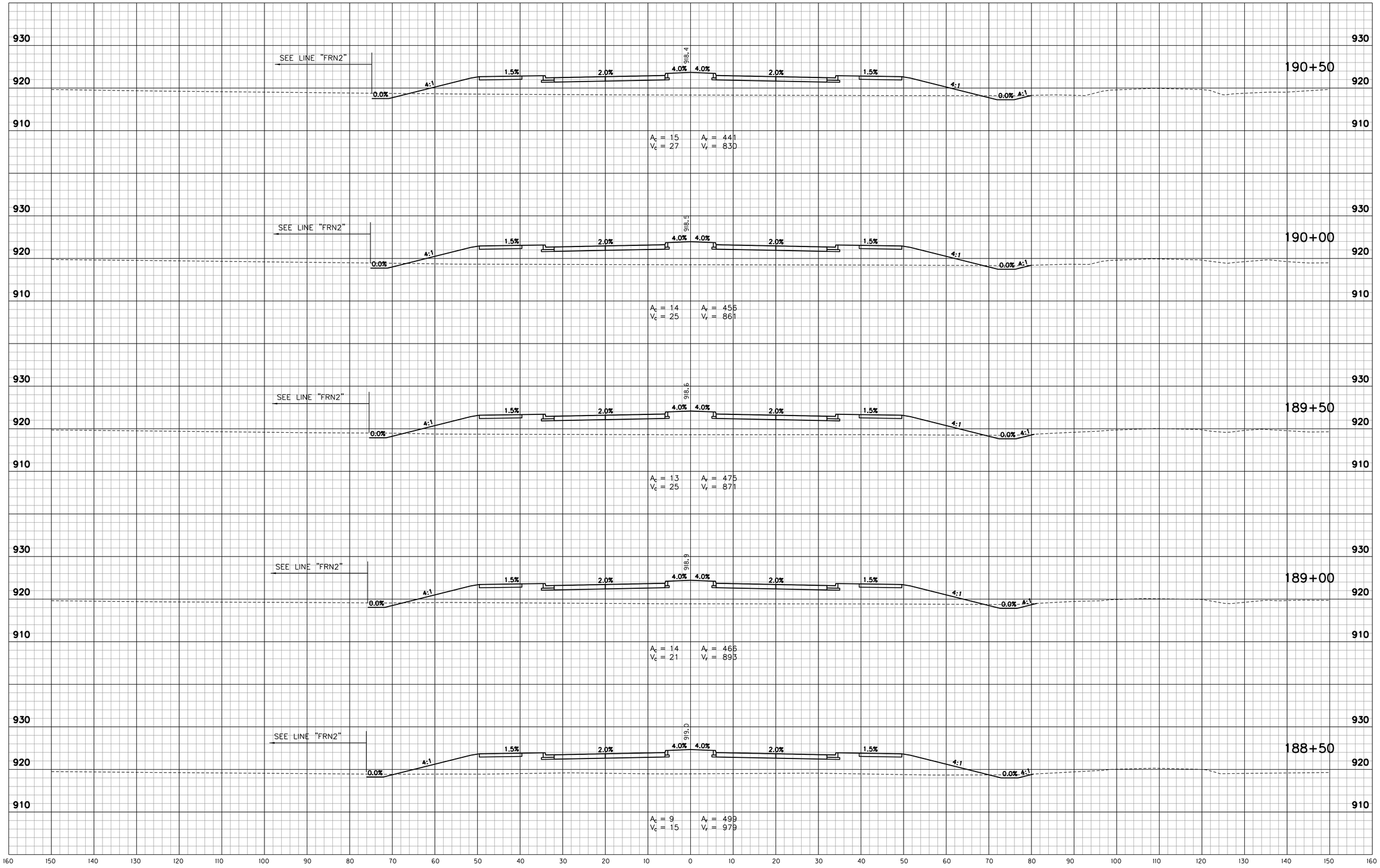
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 186+50 TO STA. 188+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	113 of 148
CONTRACT	PROJECT
R-38240	1401702



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 188+50 TO STA. 190+50 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	114 of 148
CONTRACT	PROJECT
R-38240	1401702

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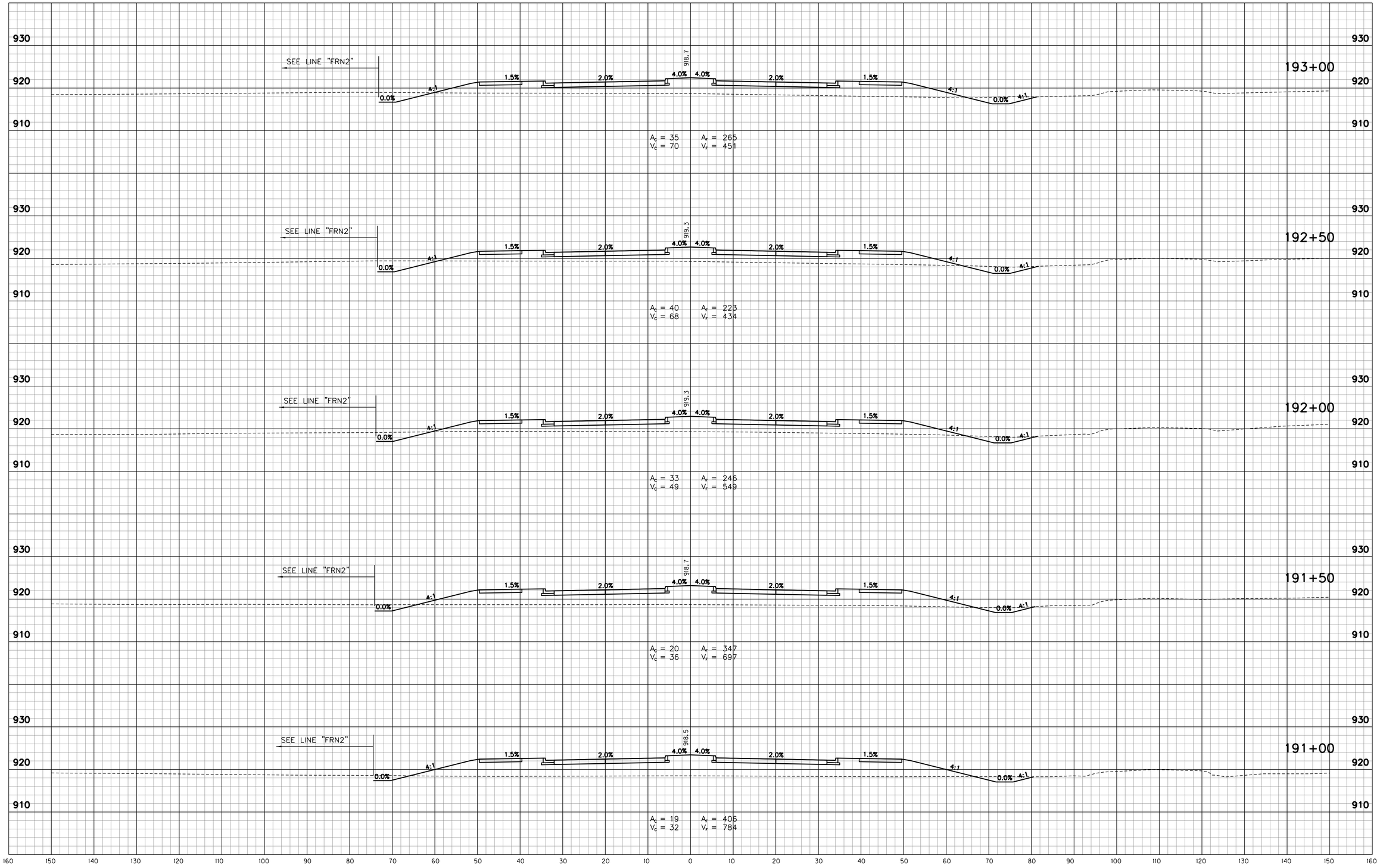

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 191+00 TO STA. 193+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	115 of 148
CONTRACT	PROJECT
R-38240	1401702

W:\Hamilton County\146 street\Design\CADD\XSPRA.dgn
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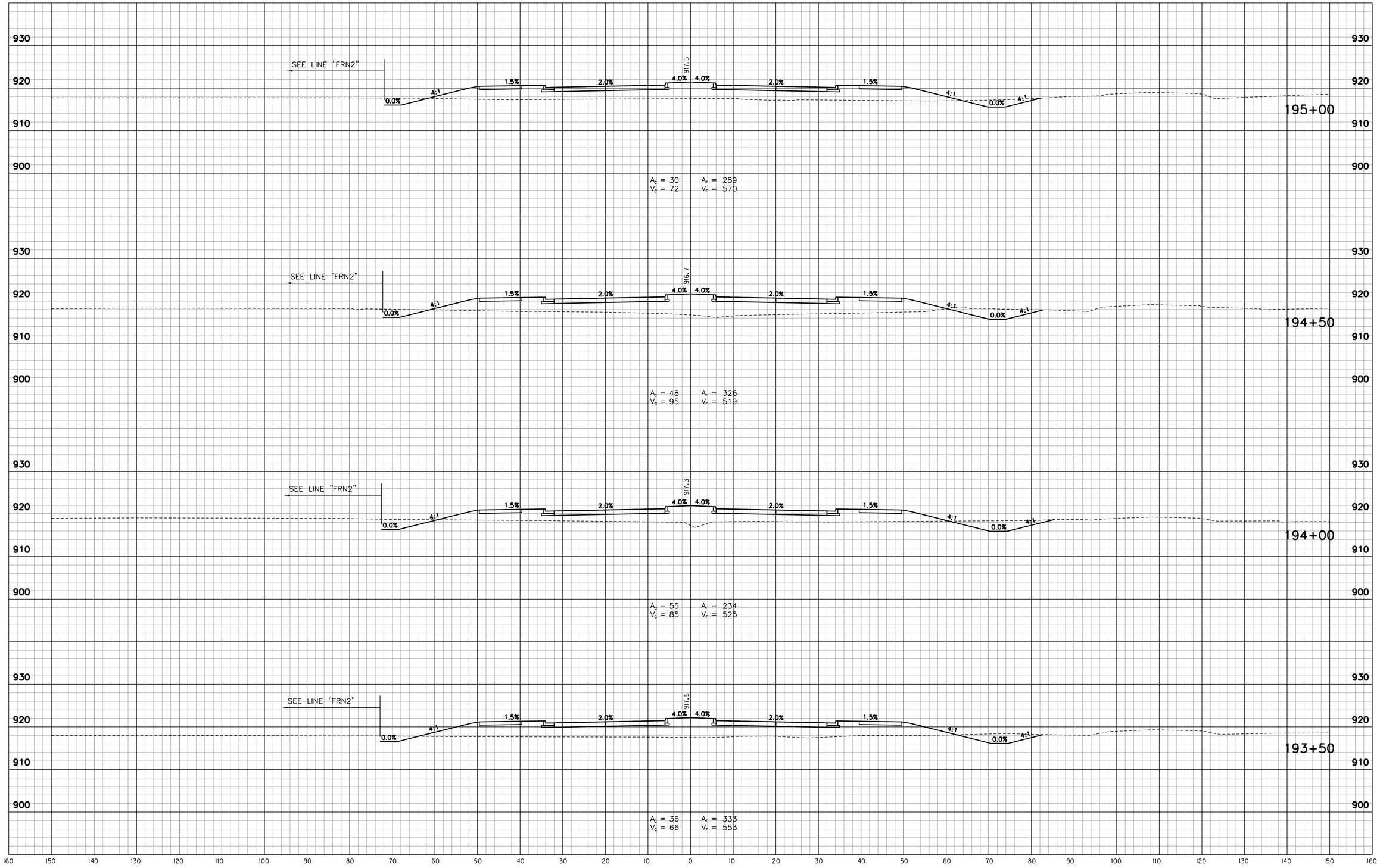

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INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 193+50 TO STA. 195+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	116 of 148
CONTRACT	PROJECT
R-38240	1401702

W:\Hamilton County\146 street\Design\CADD\XSPRA.dgn
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INDOT.tbl

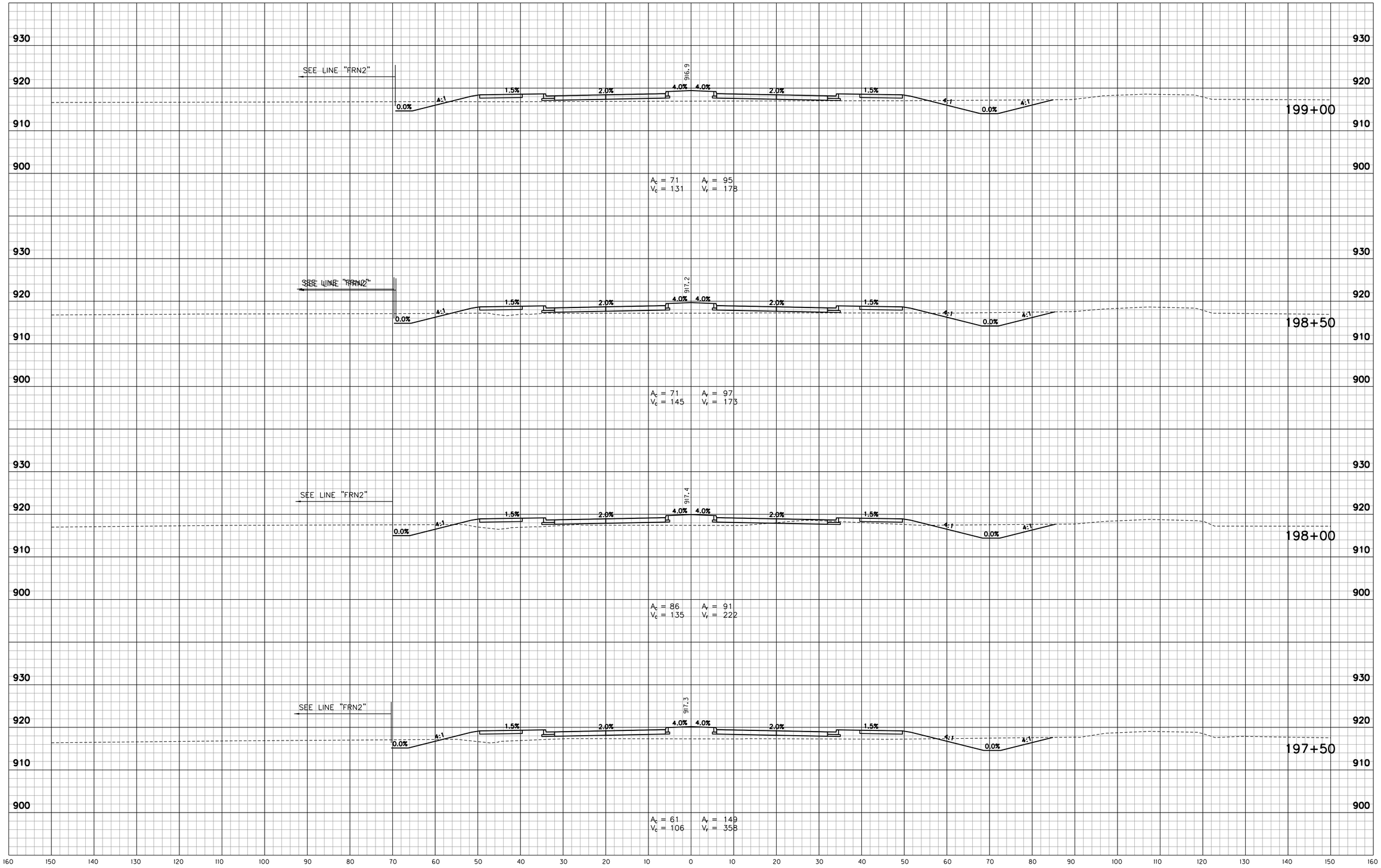
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 195+50 TO STA. 197+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	117 of 148
CONTRACT	PROJECT
R-38240	1401702



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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 197+50 TO STA. 199+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	118 of 148
CONTRACT	PROJECT
R-38240	1401702

W:\Hamilton County\146 street\Design\CADD\XSPRA.dgn
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PDF.pltcfg
INDOT.tbl

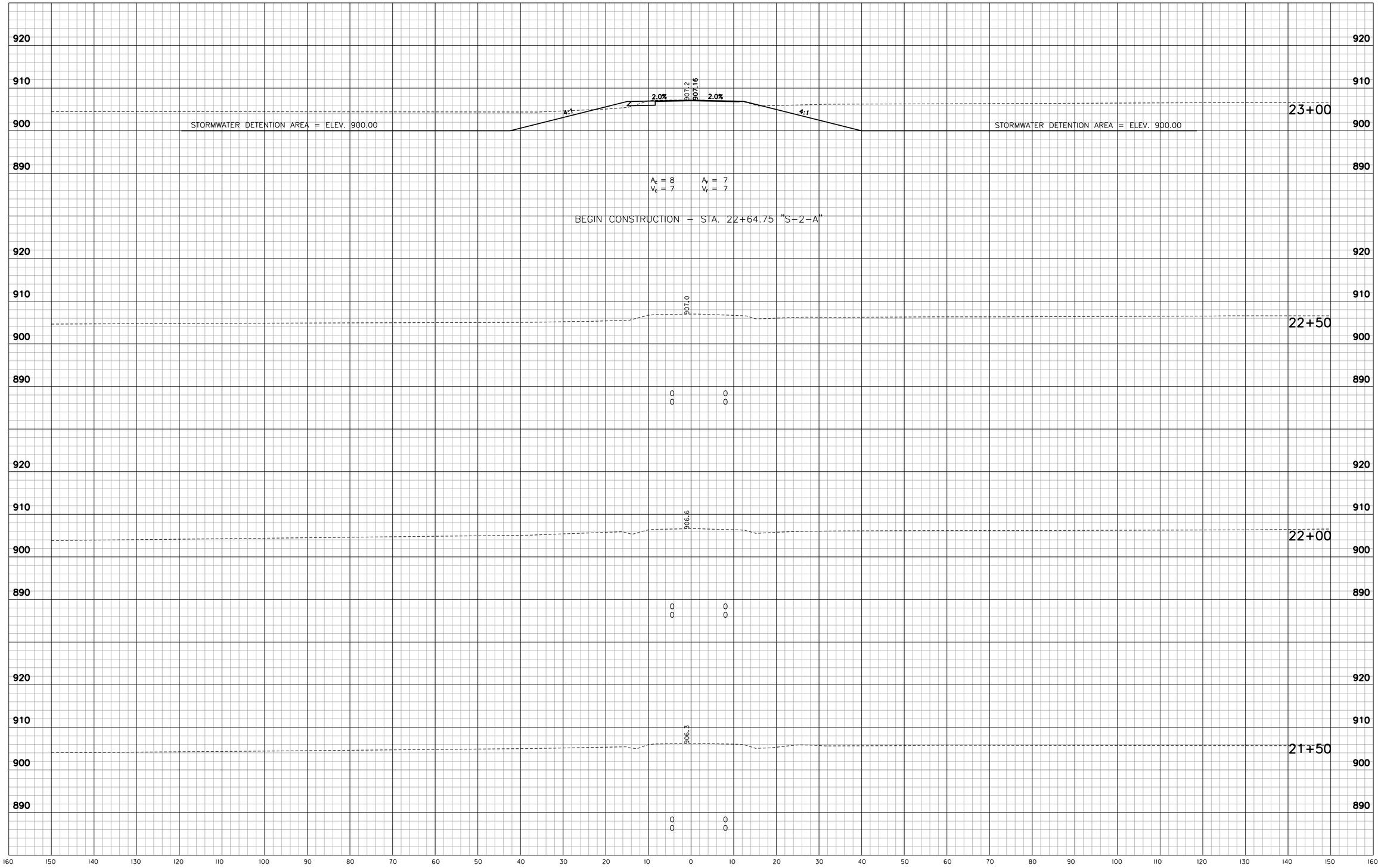
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 199+50 TO STA. 201+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	119 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

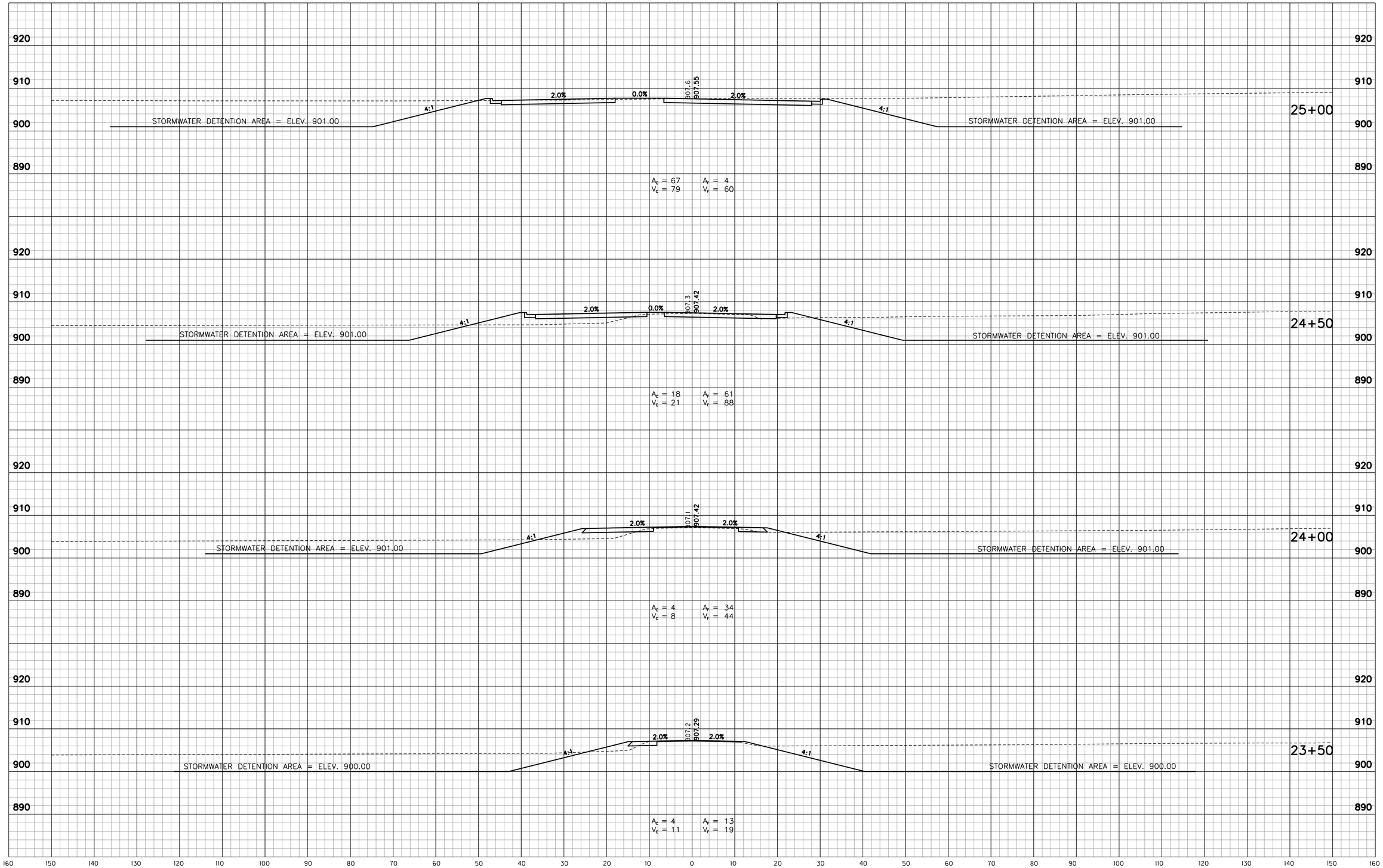
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 21+50 TO STA. 23+00 "S-2-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	120 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

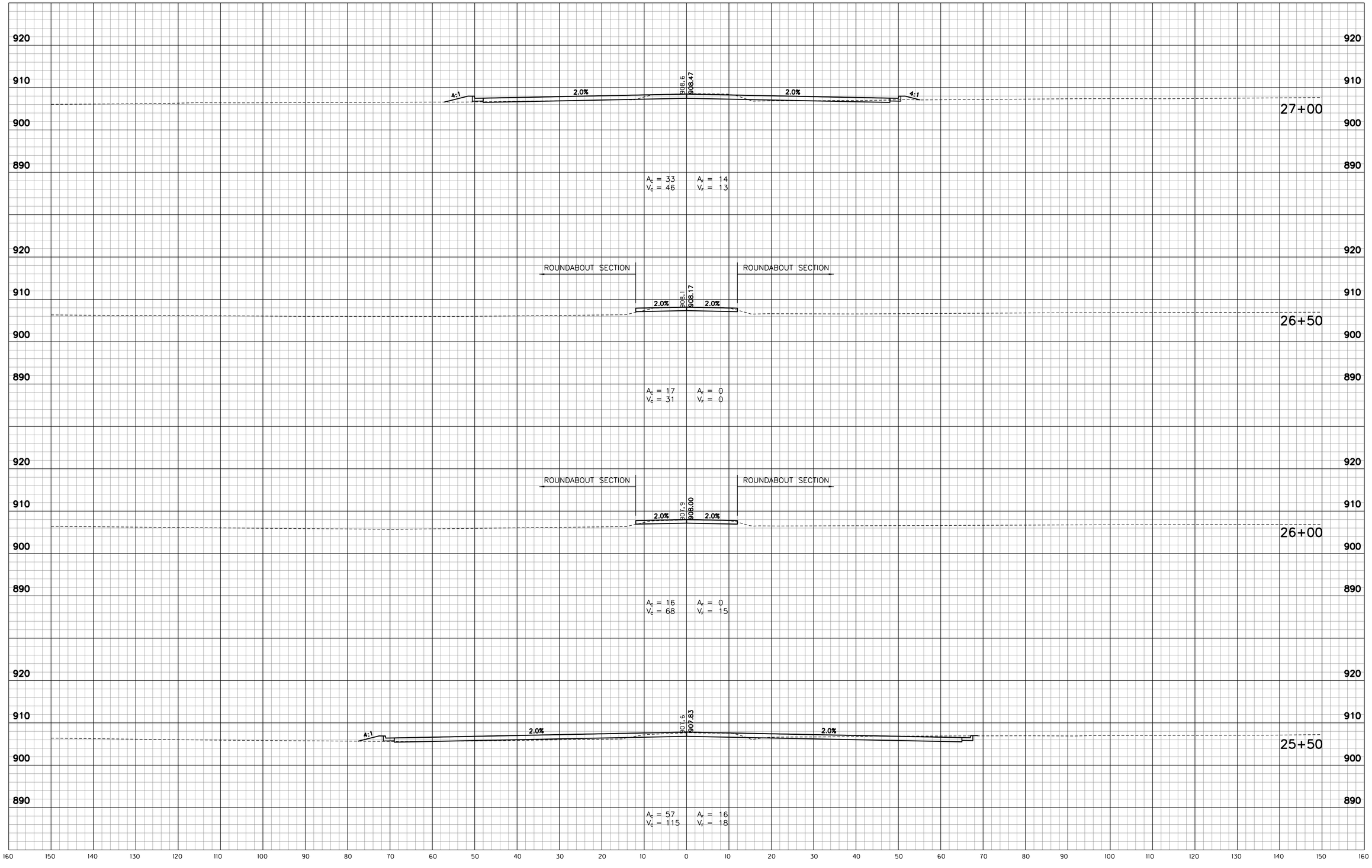
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 23+50 TO STA. 25+00 "S-2-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	121 of 148
CONTRACT	PROJECT
R-38240	1401702



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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

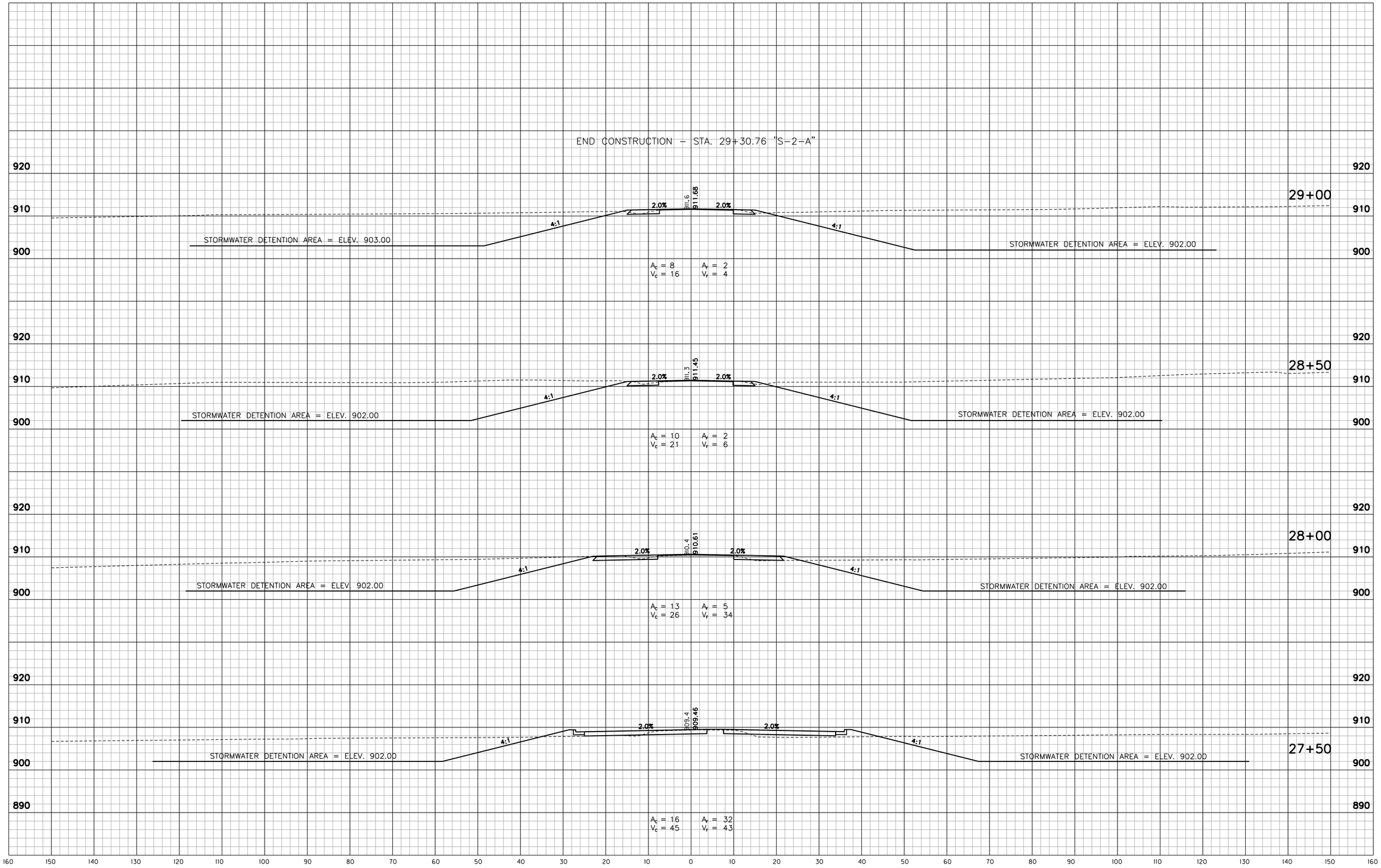
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 25+50 TO STA. 27+00 "S-2-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	122 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

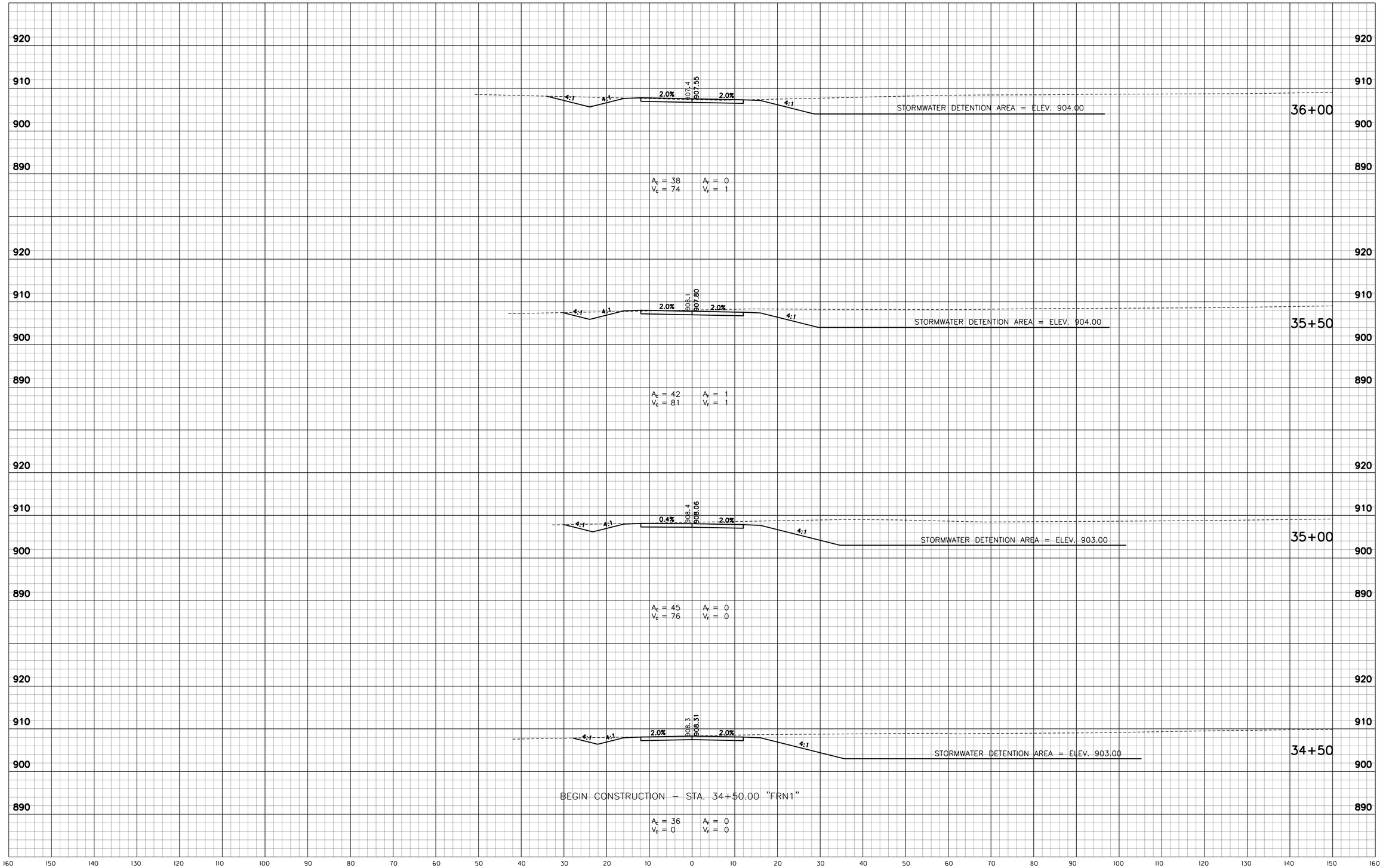
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 27+50 TO STA. 29+00 "S-2-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	123 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

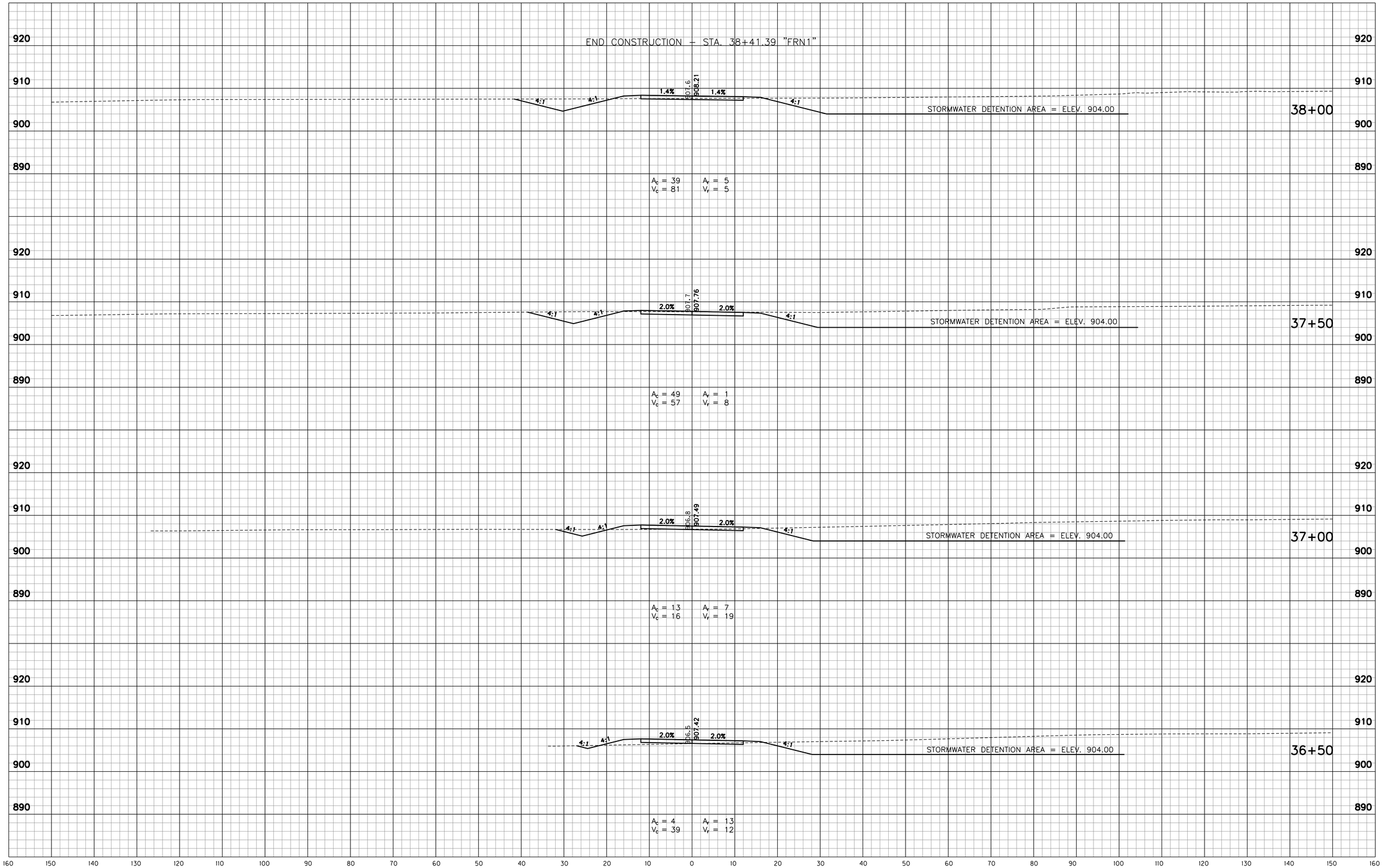
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 34+50 TO STA. 36+00 "FRN1"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	124 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

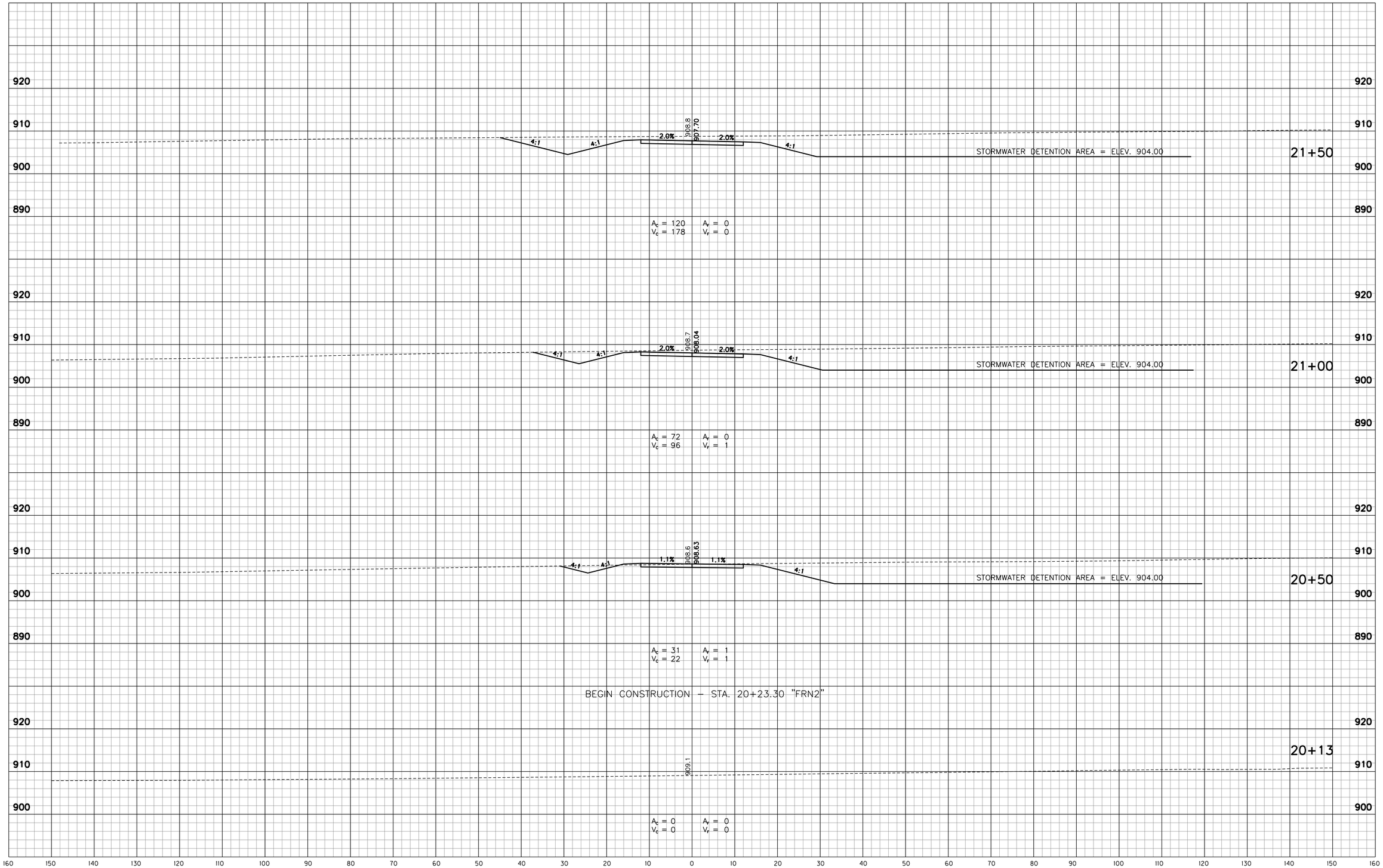
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 36+50 TO STA. 38+00 "FRN1"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	125 of 148
CONTRACT	PROJECT
R-38240	1401702



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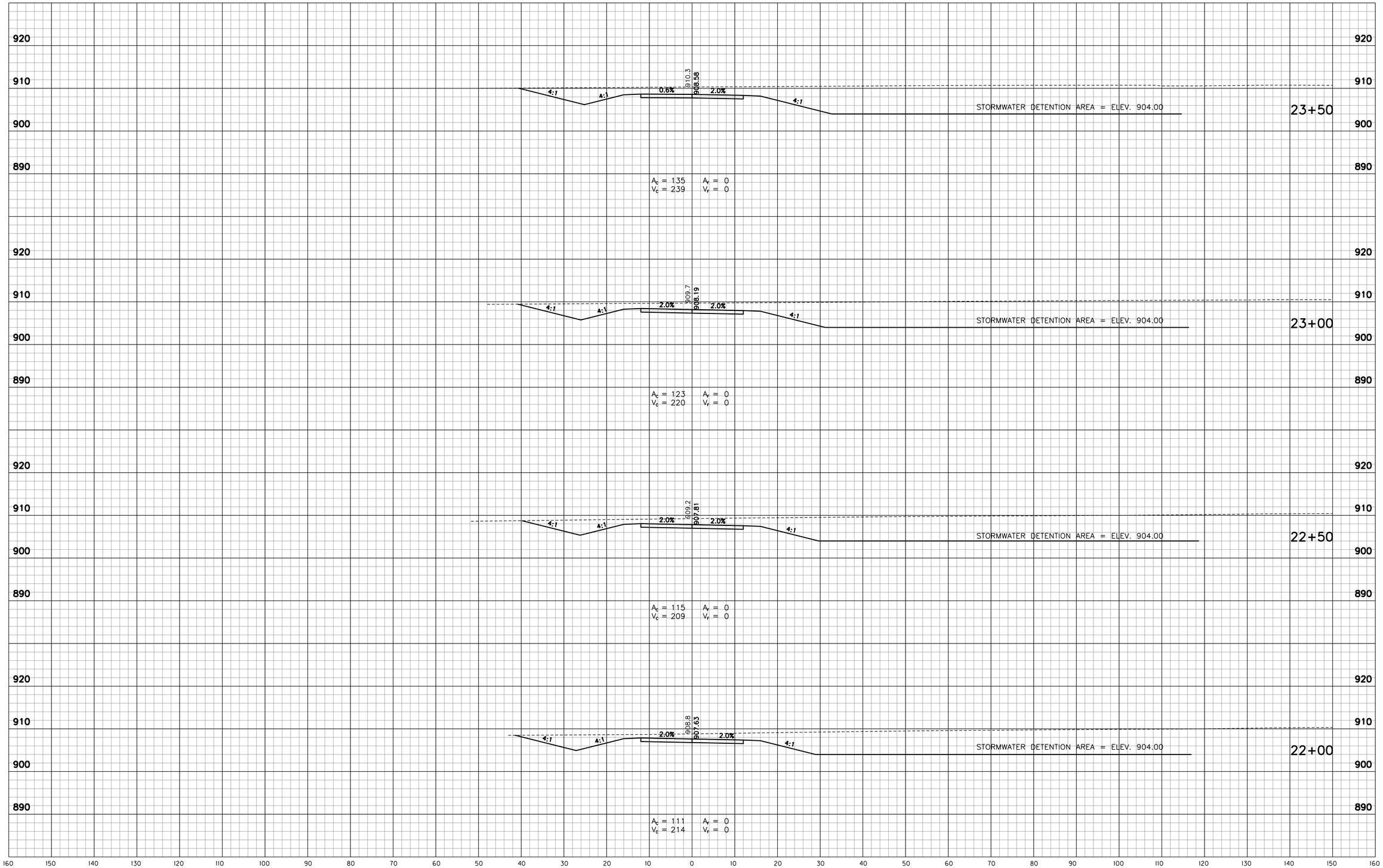
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 20+13 TO STA. 21+50 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	126 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

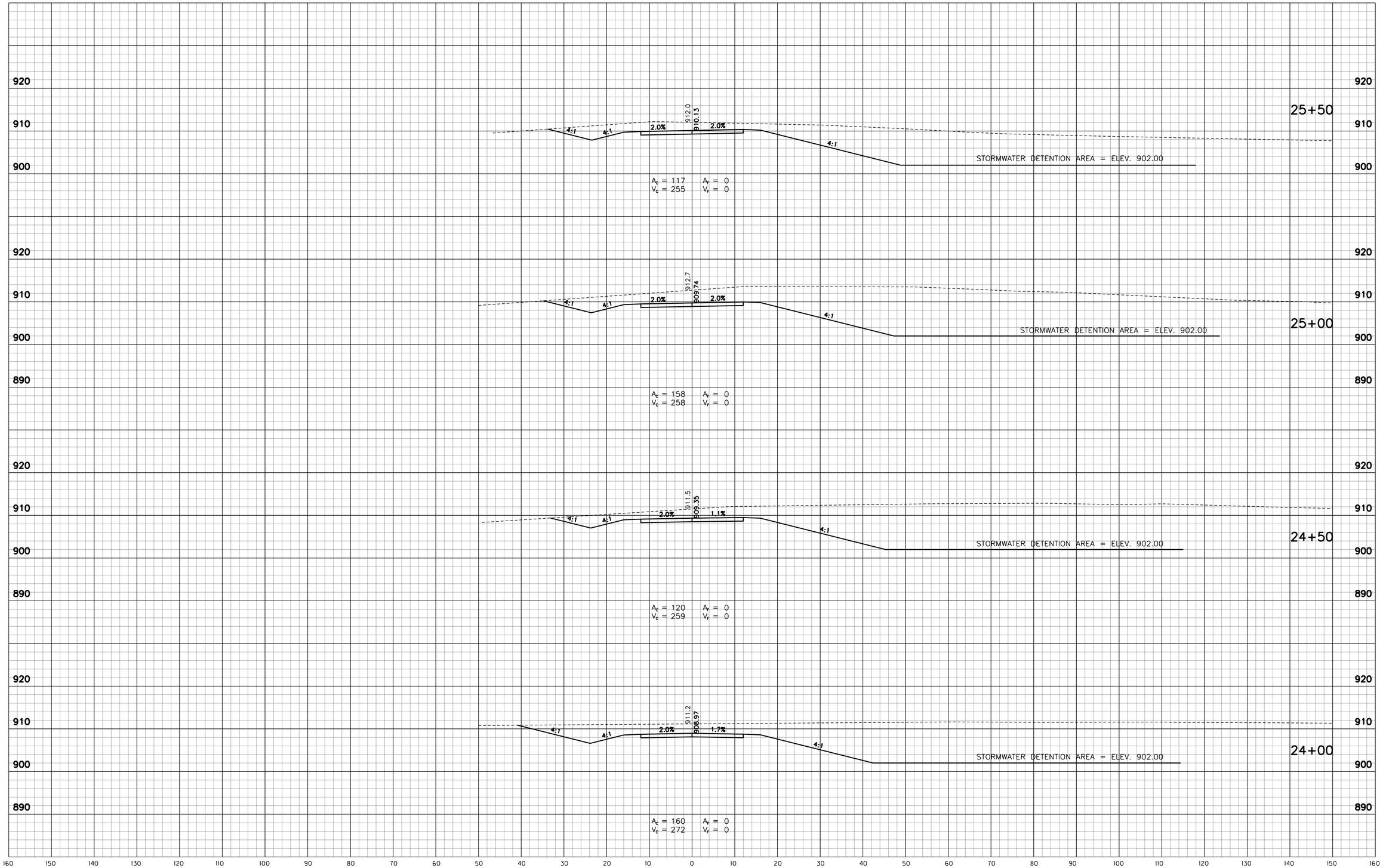
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 22+00 TO STA. 23+50 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	127 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

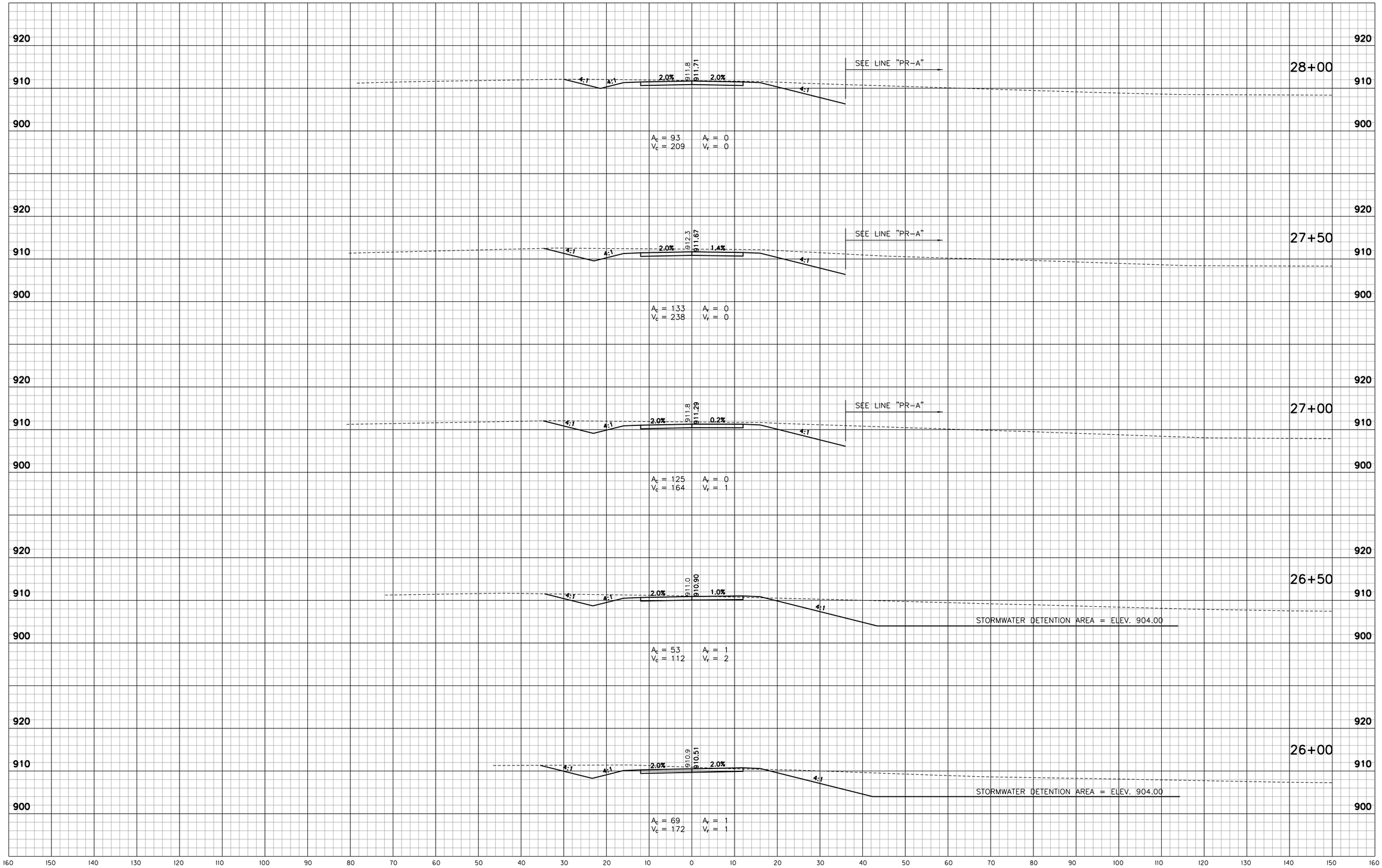
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 24+00 TO STA. 25+50 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	128 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

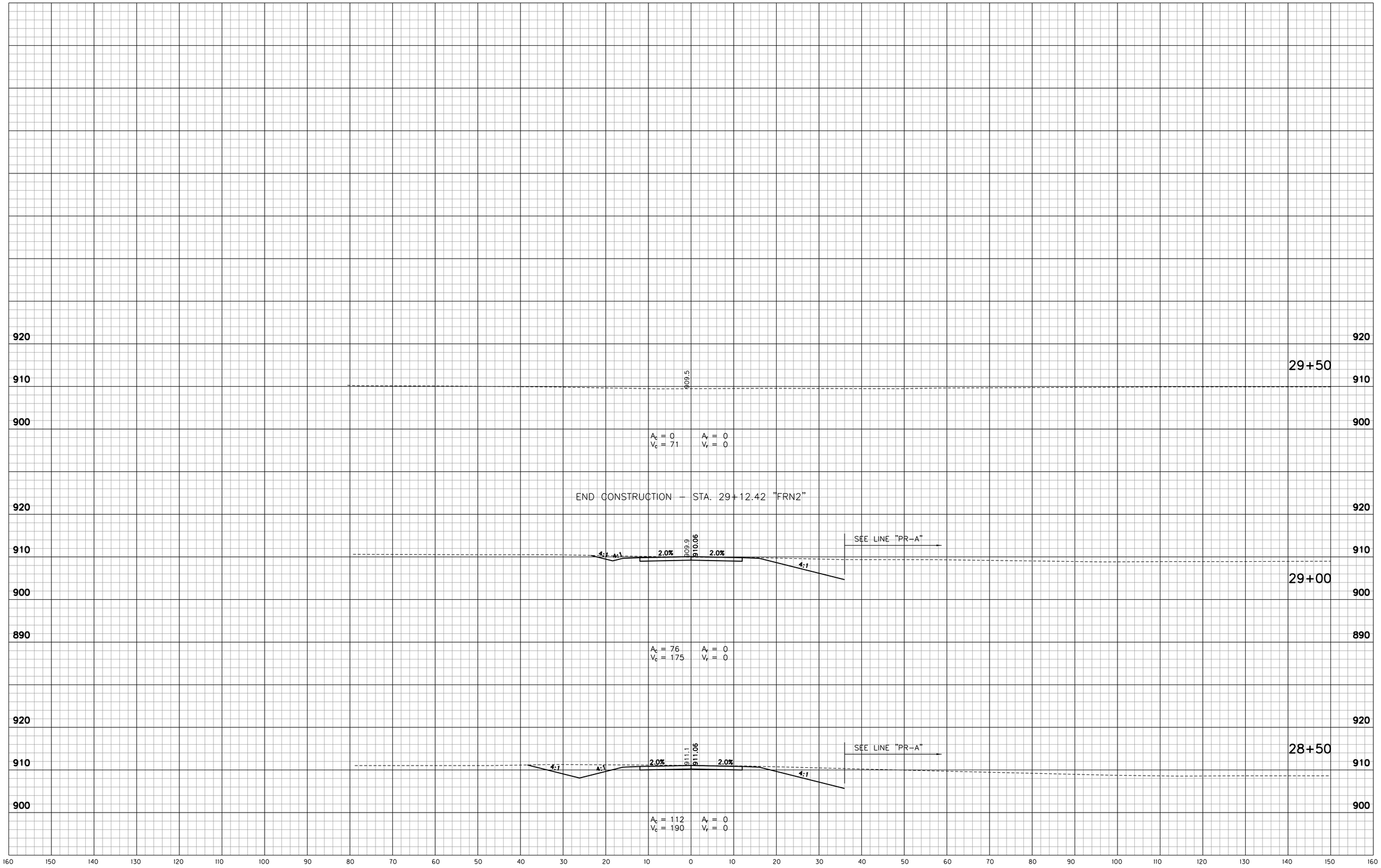
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 26+00 TO STA. 28+00 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	129 of 148
CONTRACT	PROJECT
R-38240	1401702



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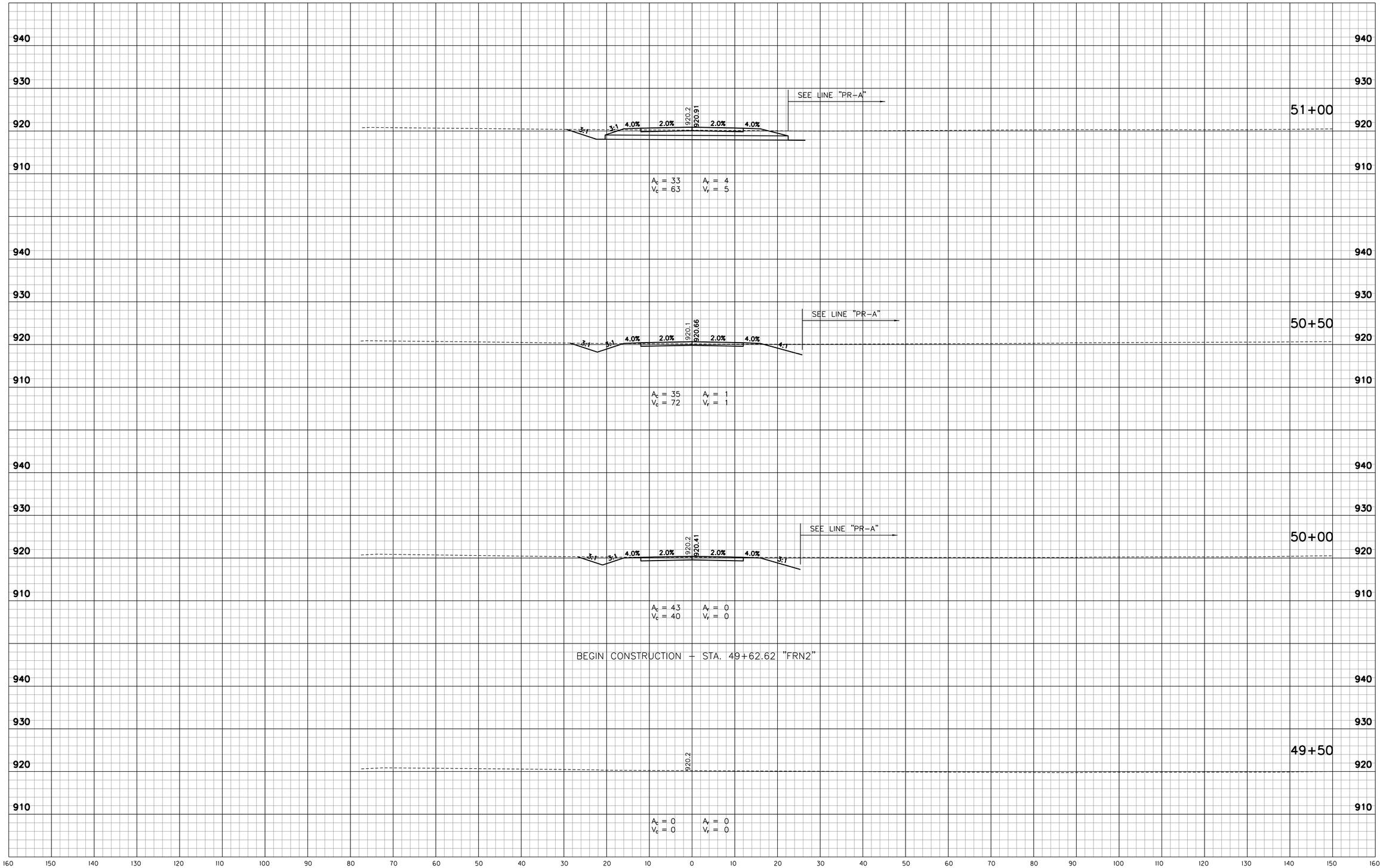
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 28+50 TO STA. 29+50 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	130 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

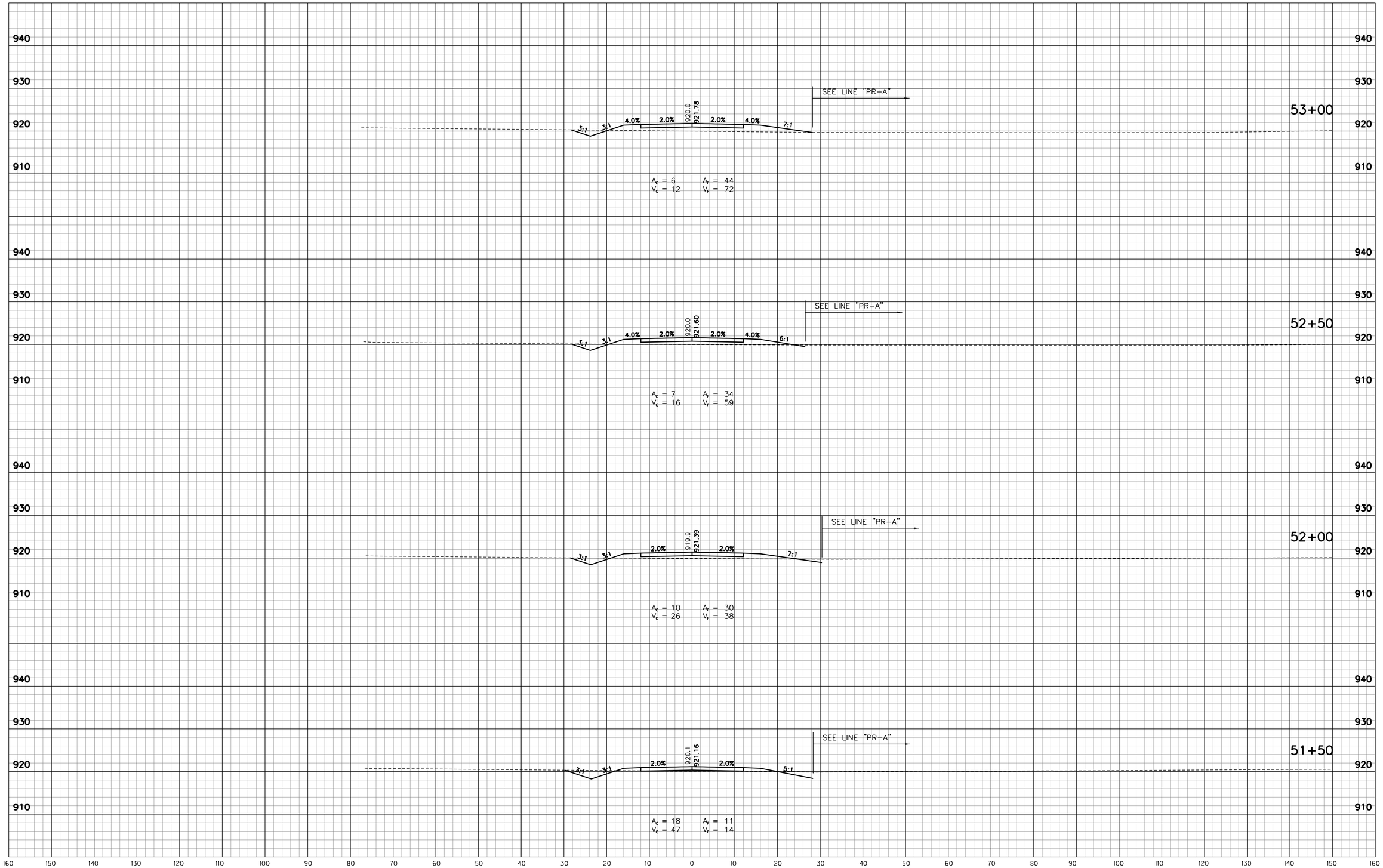
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 49+50 TO STA. 51+00 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	131 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

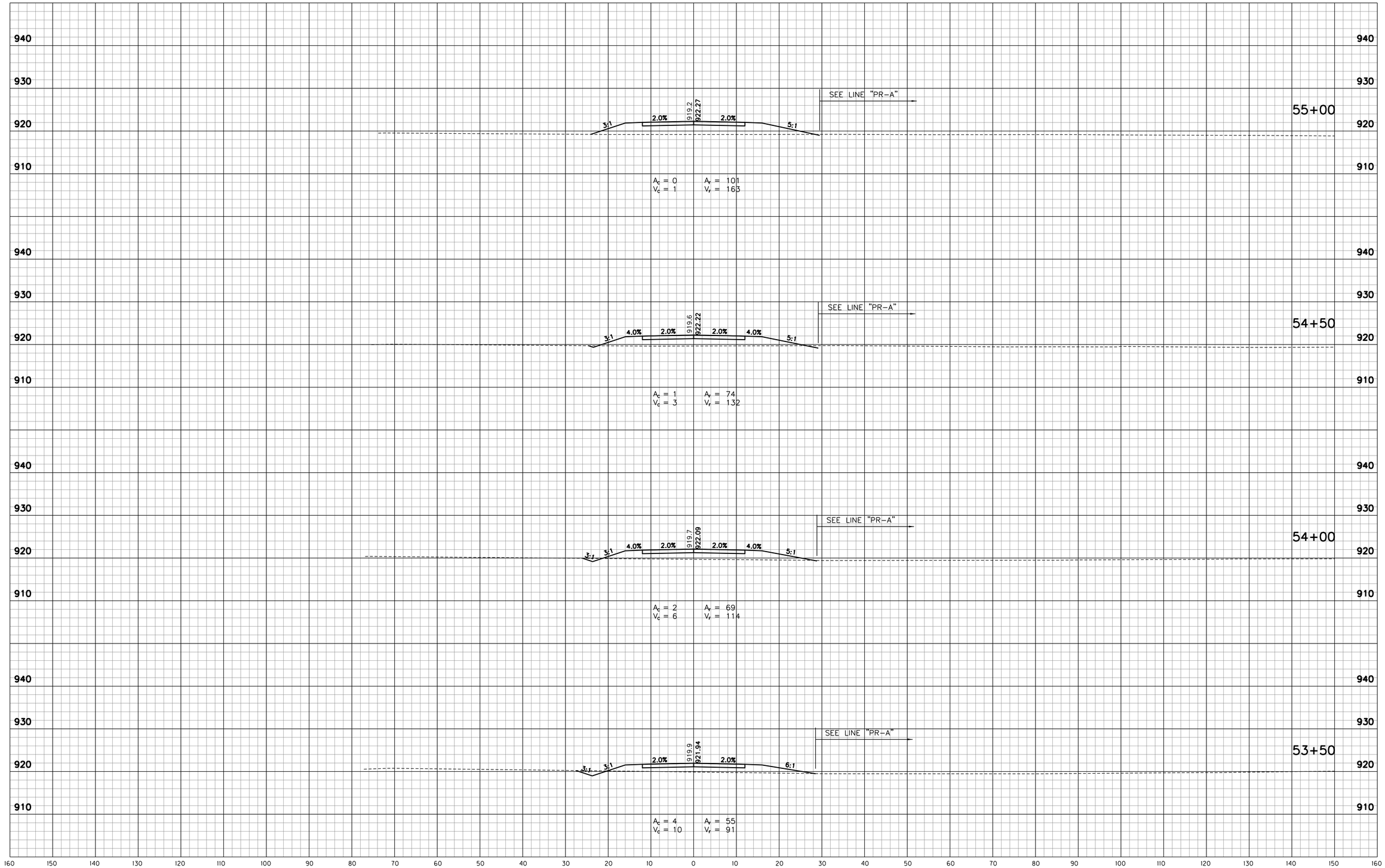
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 51+50 TO STA. 53+00 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	132 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

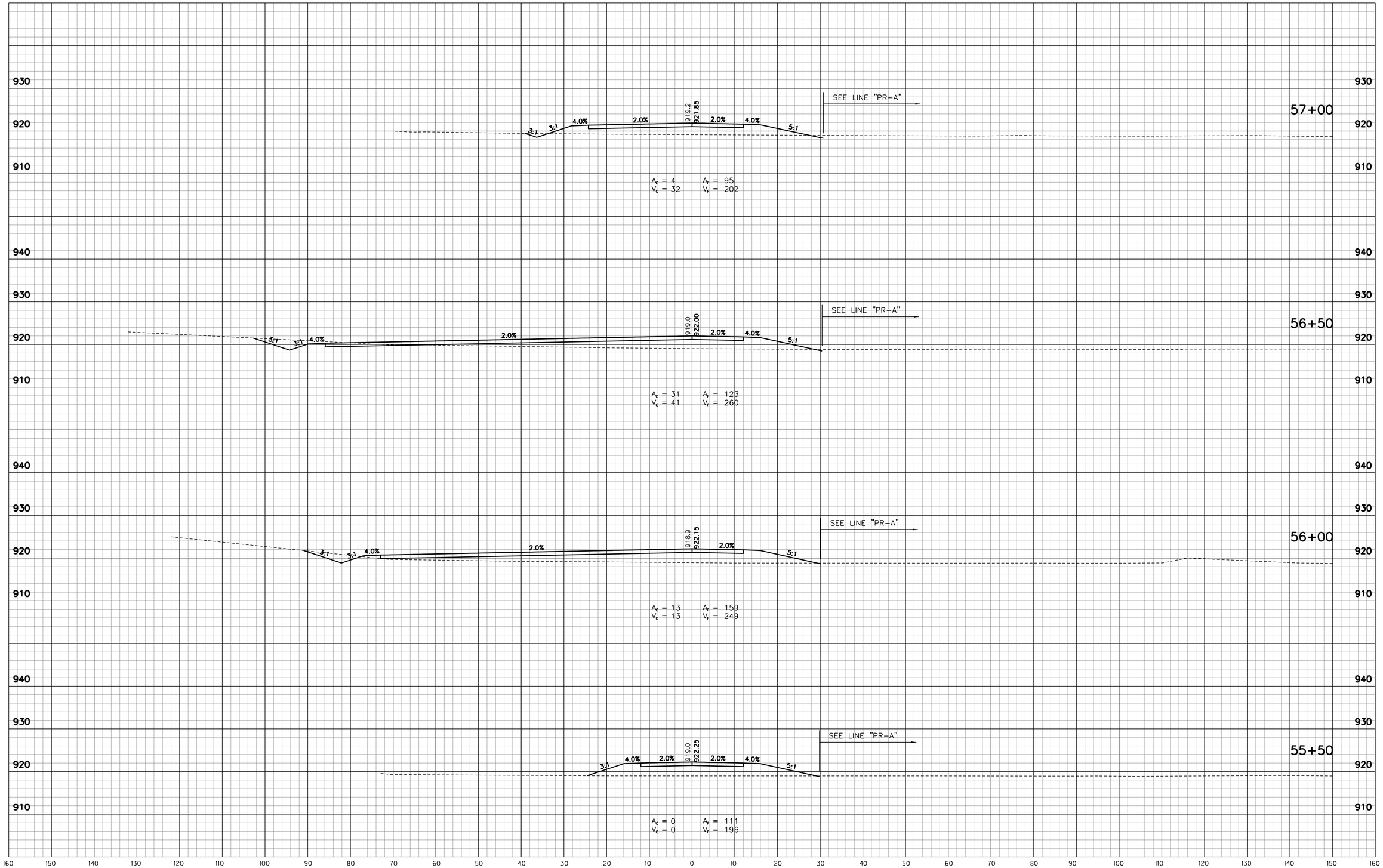
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 53+50 TO STA. 55+00 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	133 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

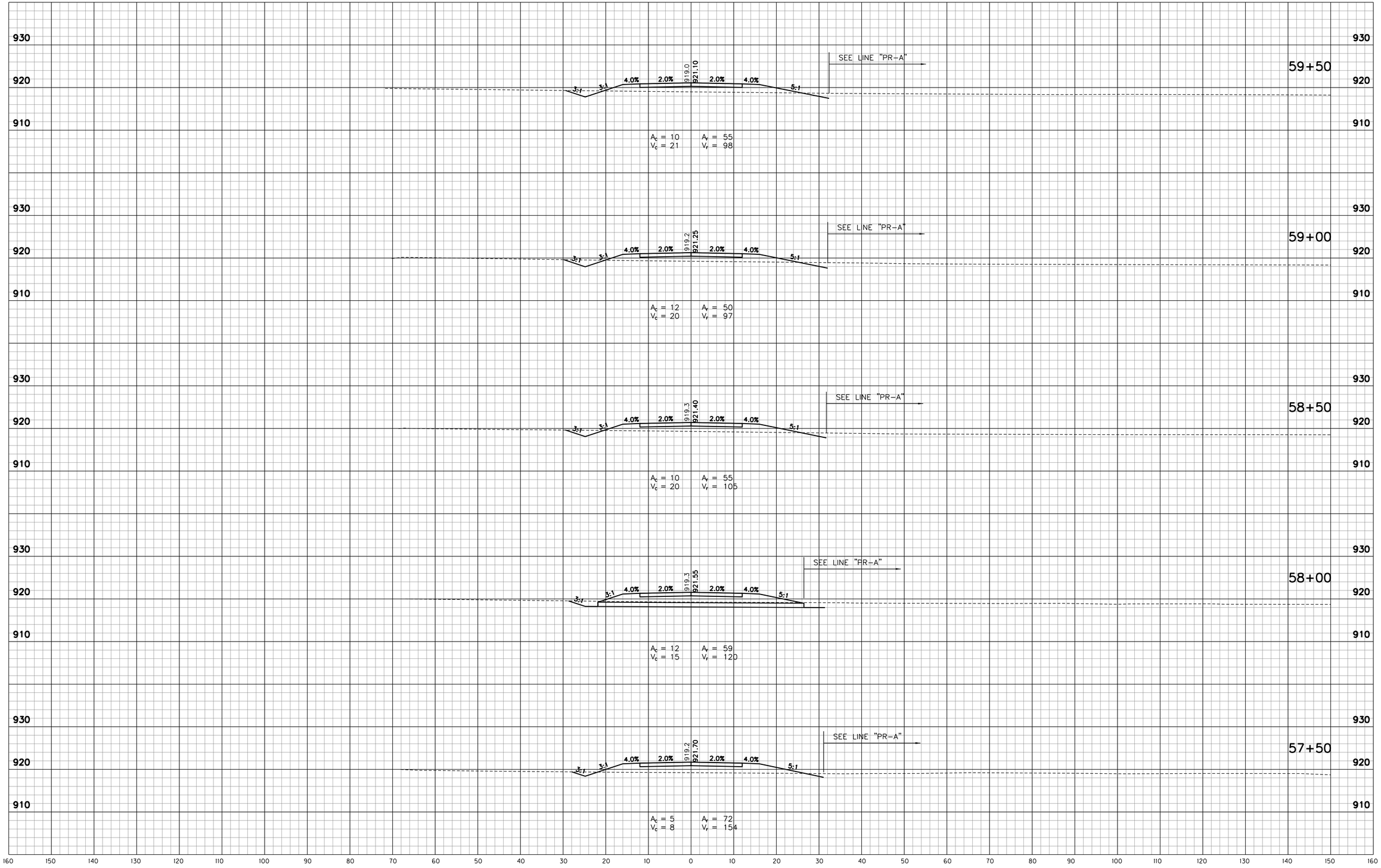
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 55+50 TO STA. 57+00 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	134 of 148
CONTRACT	PROJECT
R-38240	1401702



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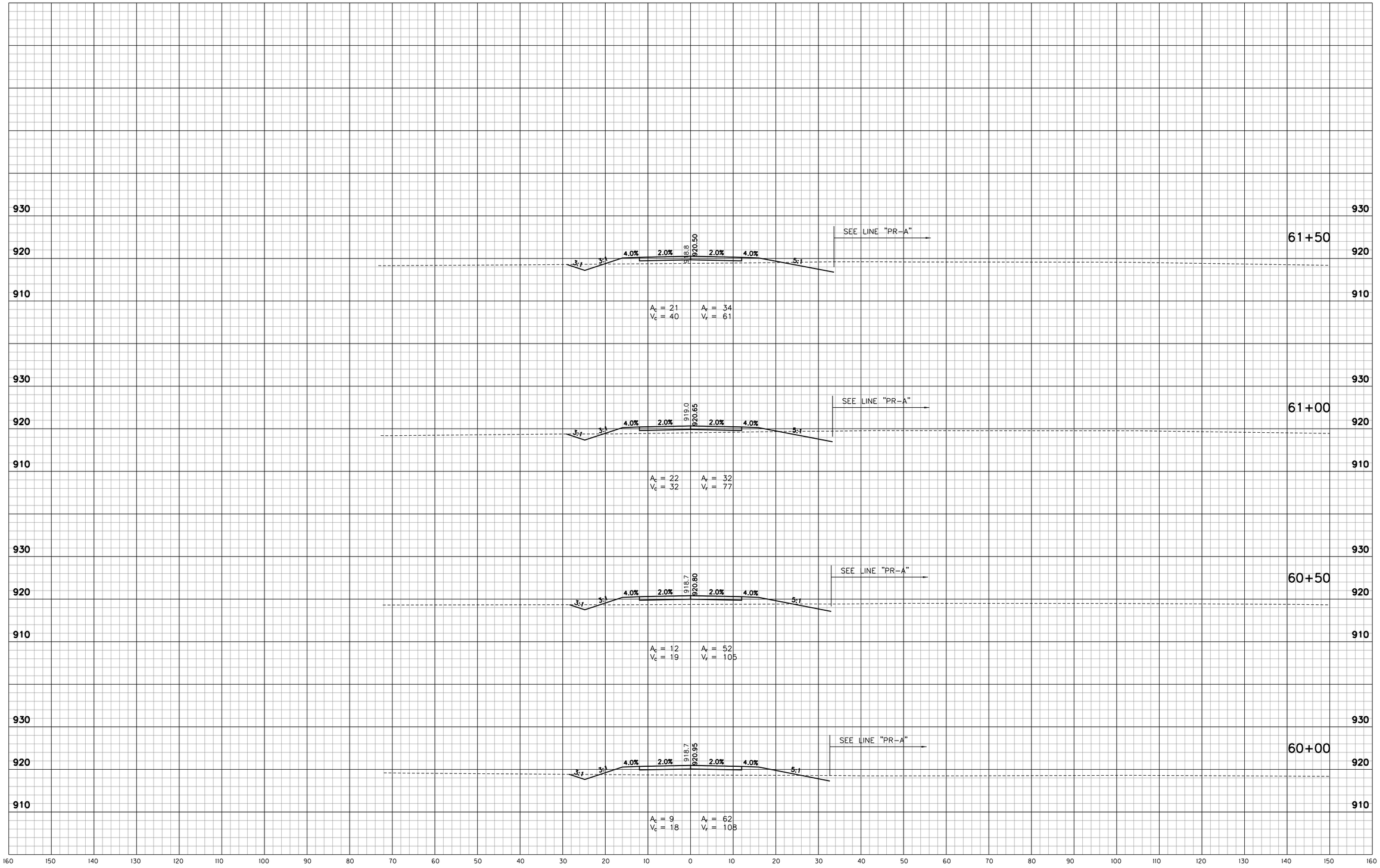
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 57+50 TO STA. 59+50 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	135 of 148
CONTRACT	PROJECT
R-38240	1401702



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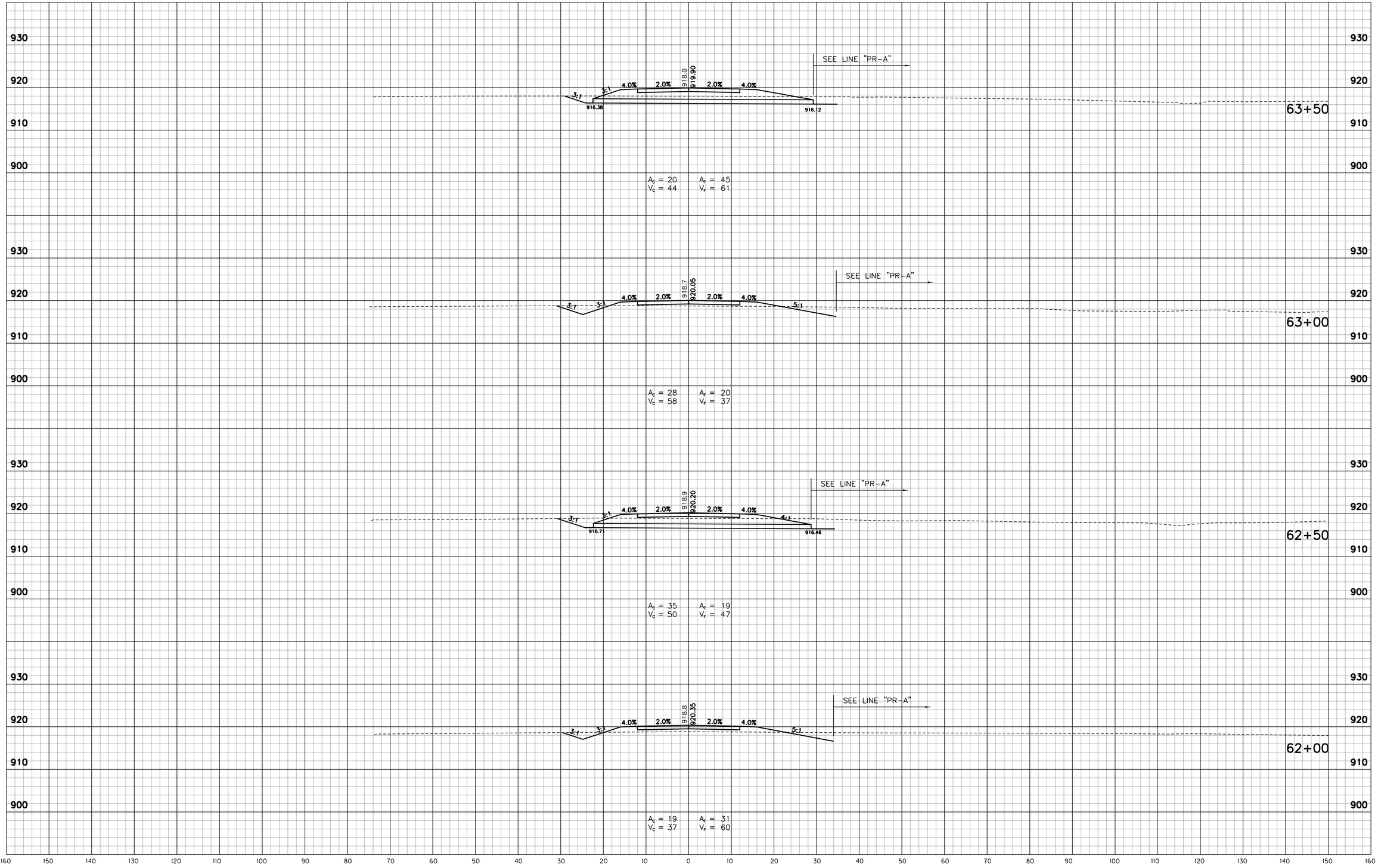
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 60+00 TO STA. 61+50 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	136 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

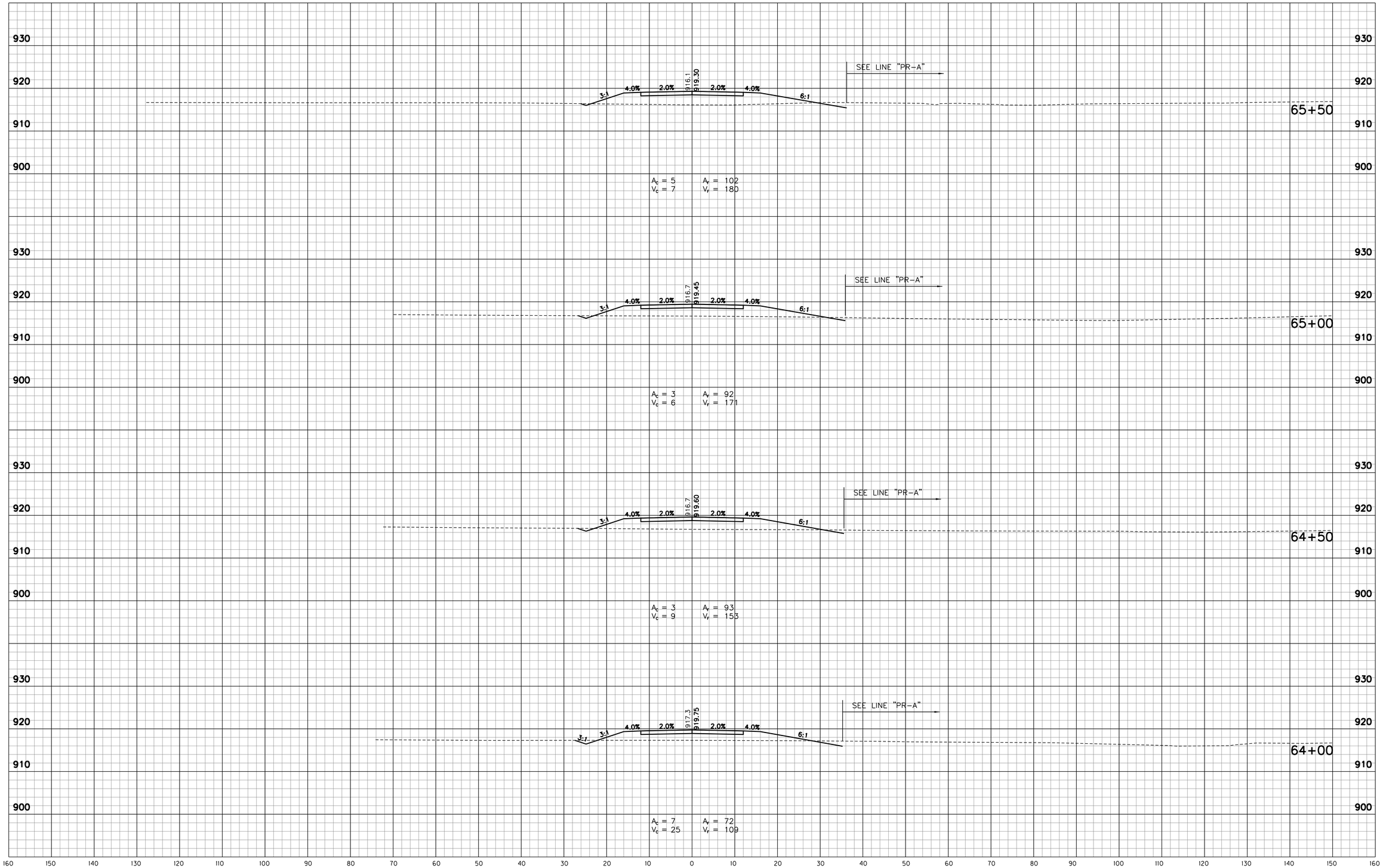
DESIGNED: RSH DRAWN: KAM

CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 62+00 TO STA. 63+50 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	137 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

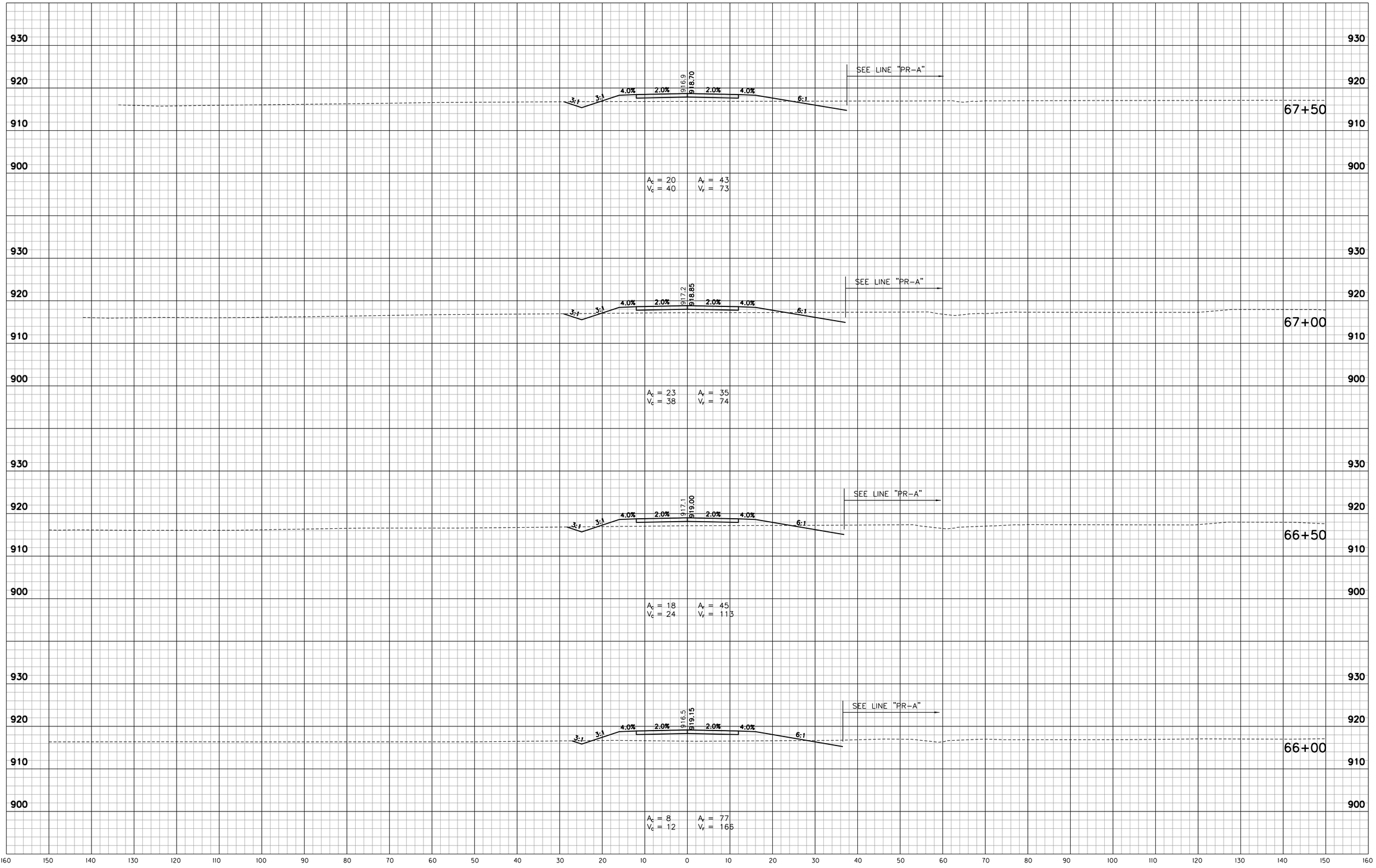
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 64+00 TO STA. 65+50 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	138 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

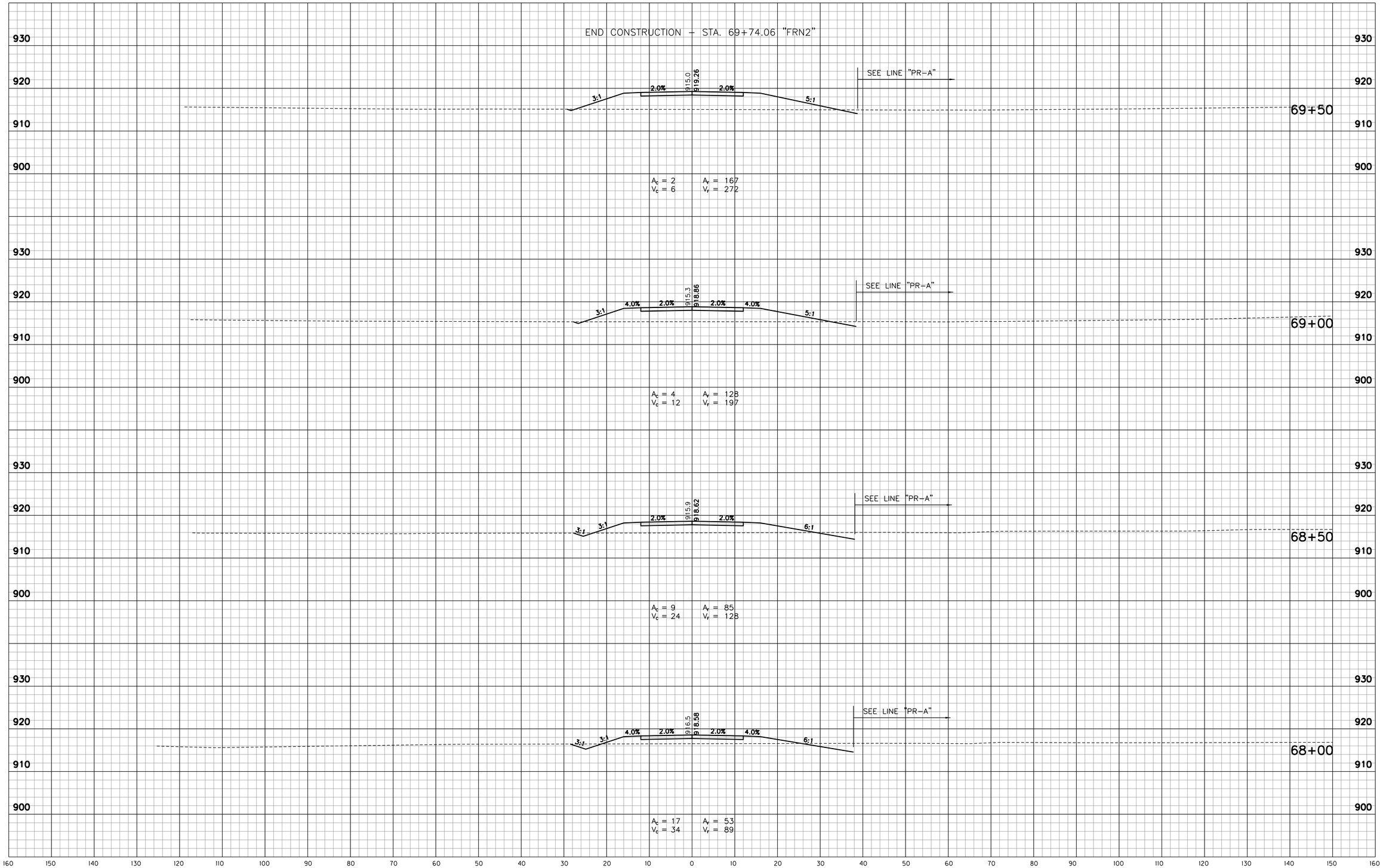
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 66+00 TO STA. 67+50 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	139 of 148
CONTRACT	PROJECT
R-38240	1401702



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PDF.pltcfg
INDOT.tbl

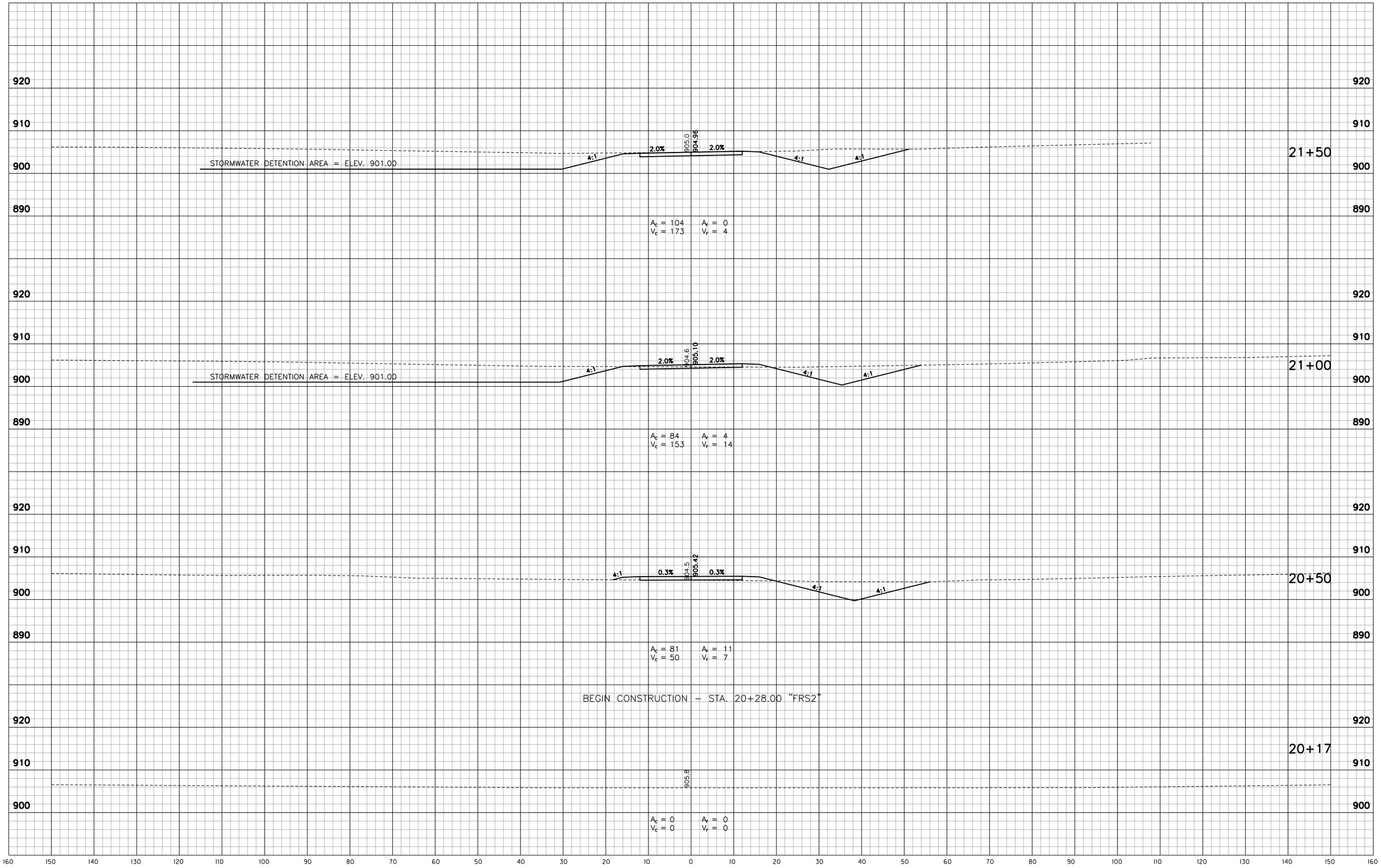
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 68+00 TO STA. 69+50 "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	140 of 148
CONTRACT	PROJECT
R-38240	1401702



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PDF.pltcfg
INDOT.tbl

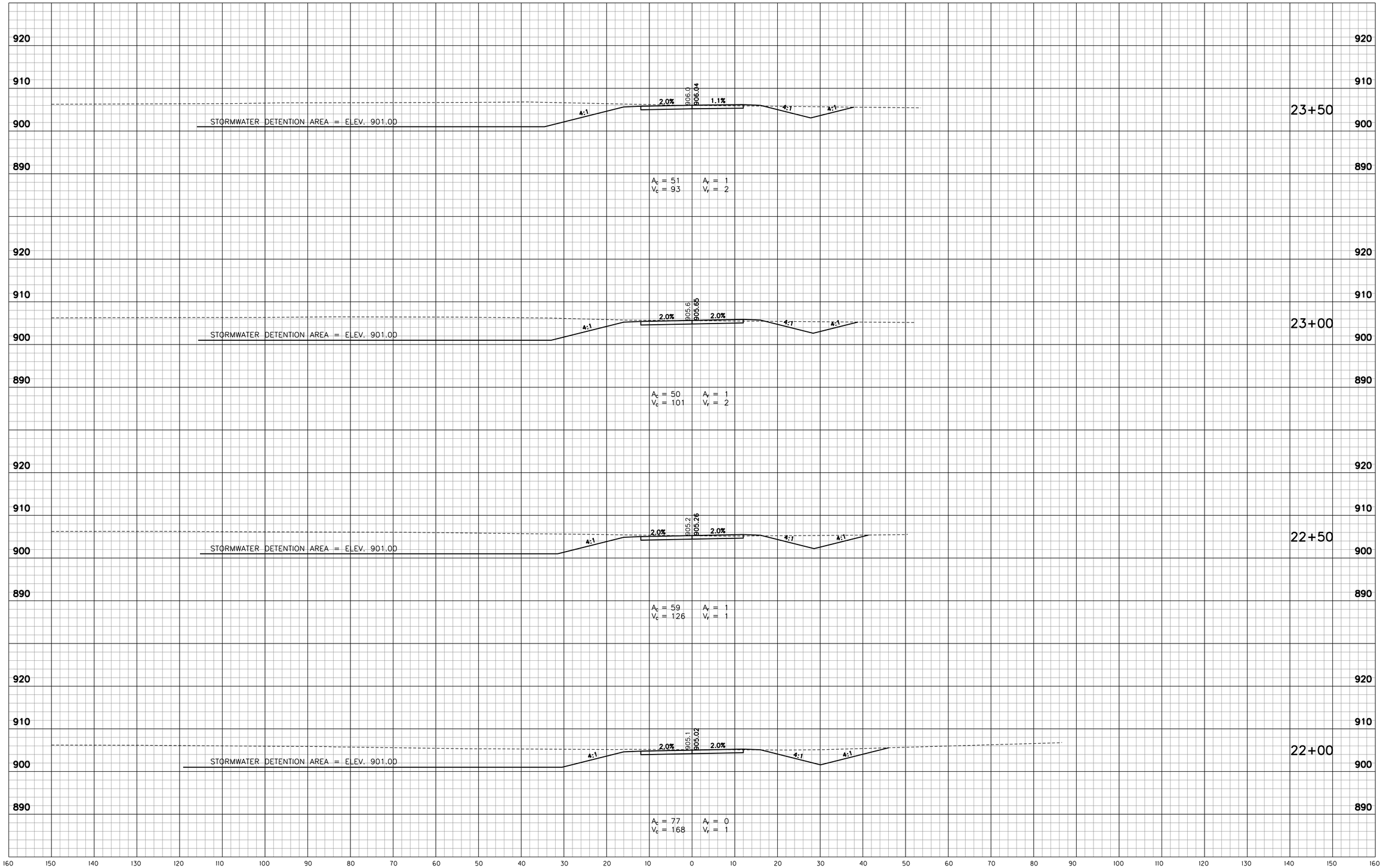
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 20+17 TO STA. 21+50 "FRS2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	141 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

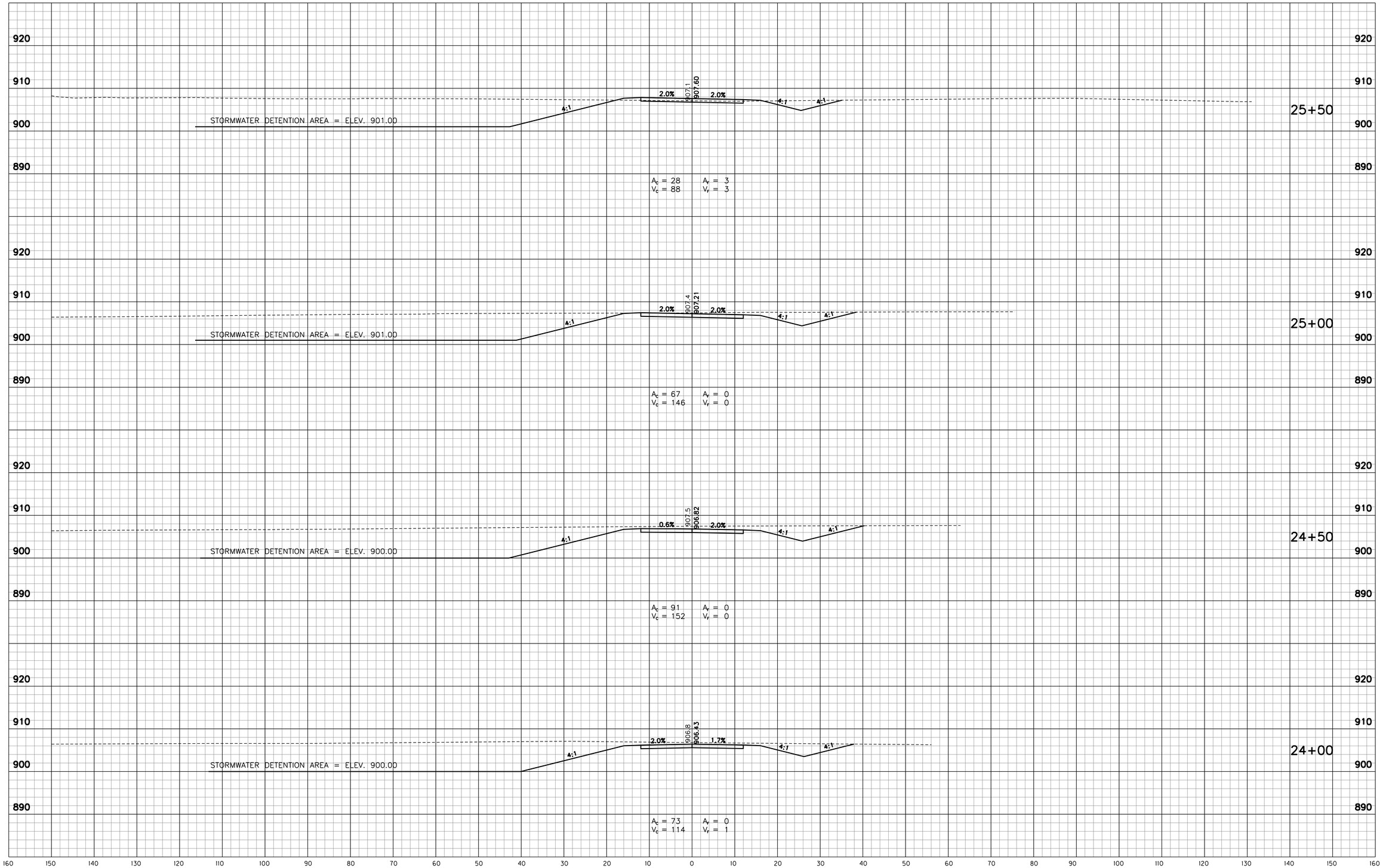
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 22+00 TO STA. 23+50 "FRS2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	142 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

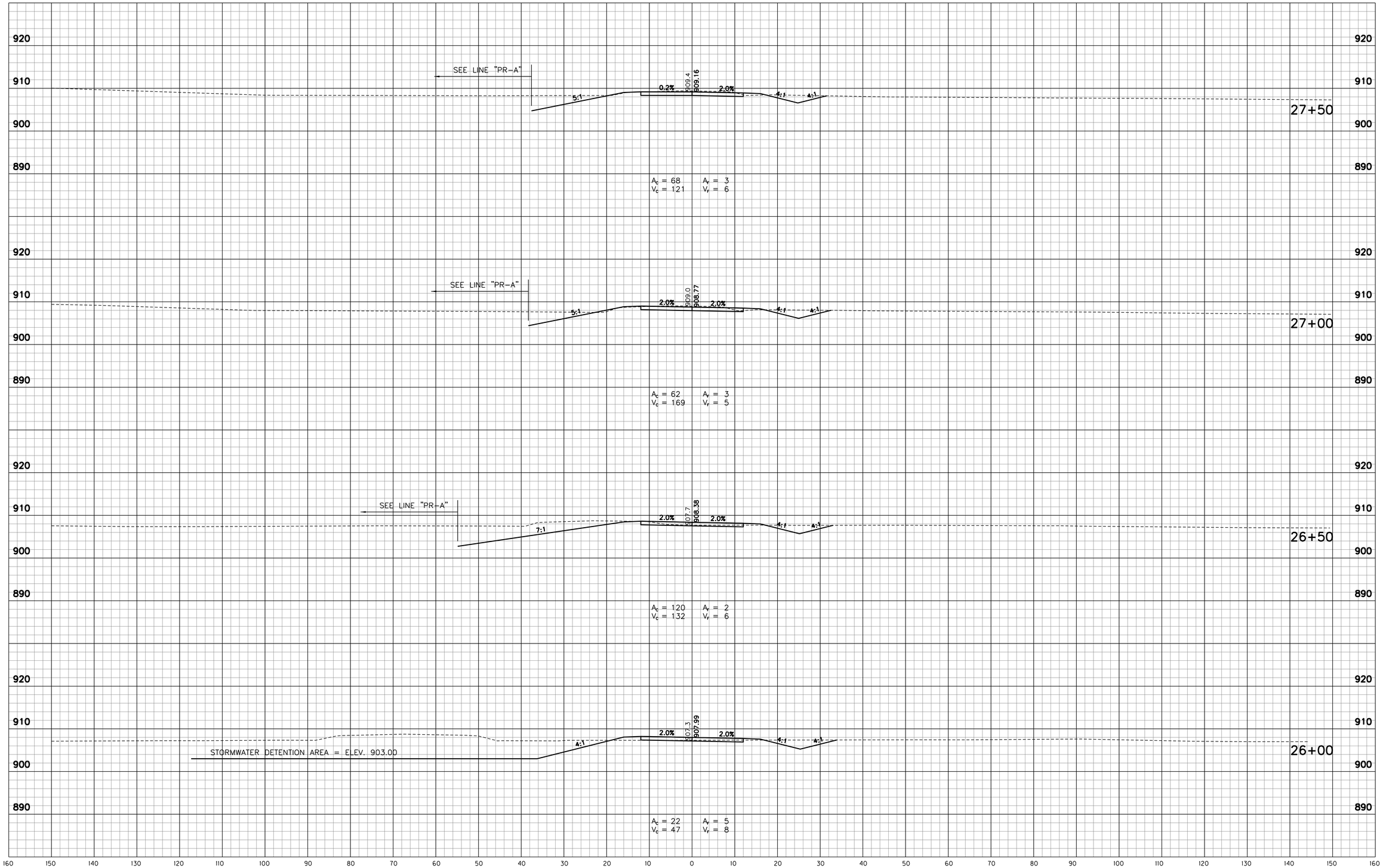
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 24+00 TO STA. 25+50 "FRS2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	143 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

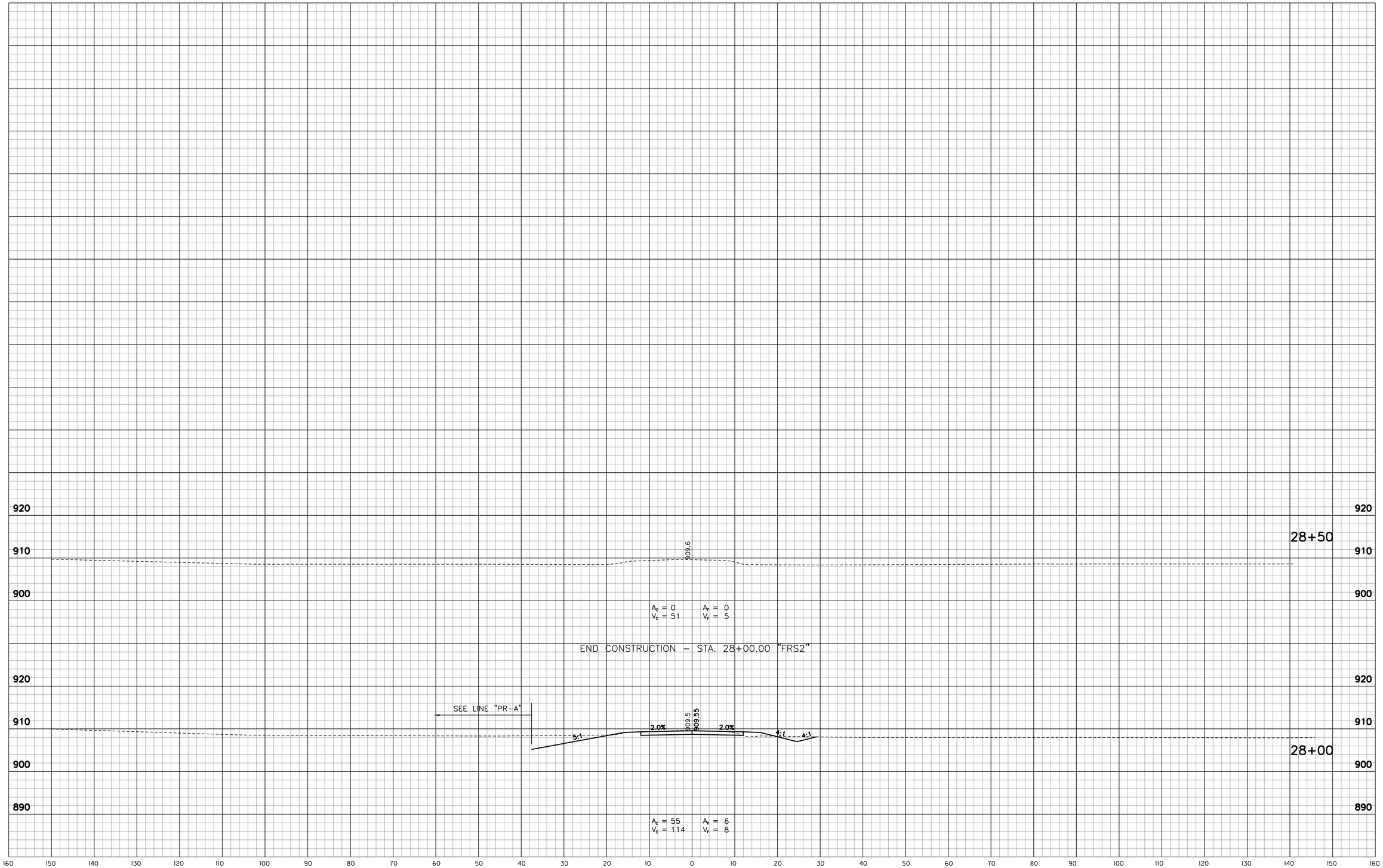
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 26+00 TO STA. 27+50 "FRS2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	144 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

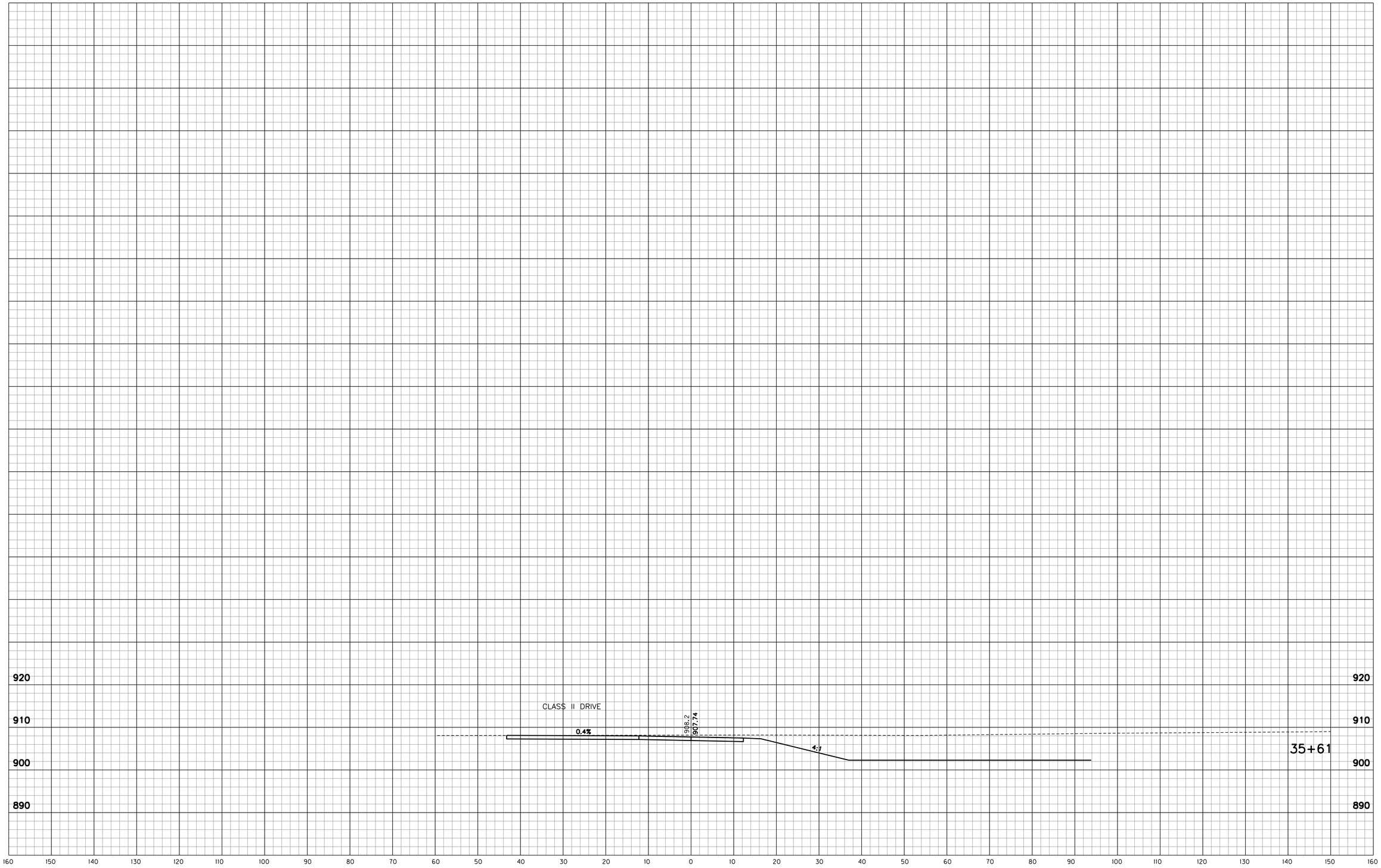
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 28+00 TO STA. 28+50 "FRS2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	145 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

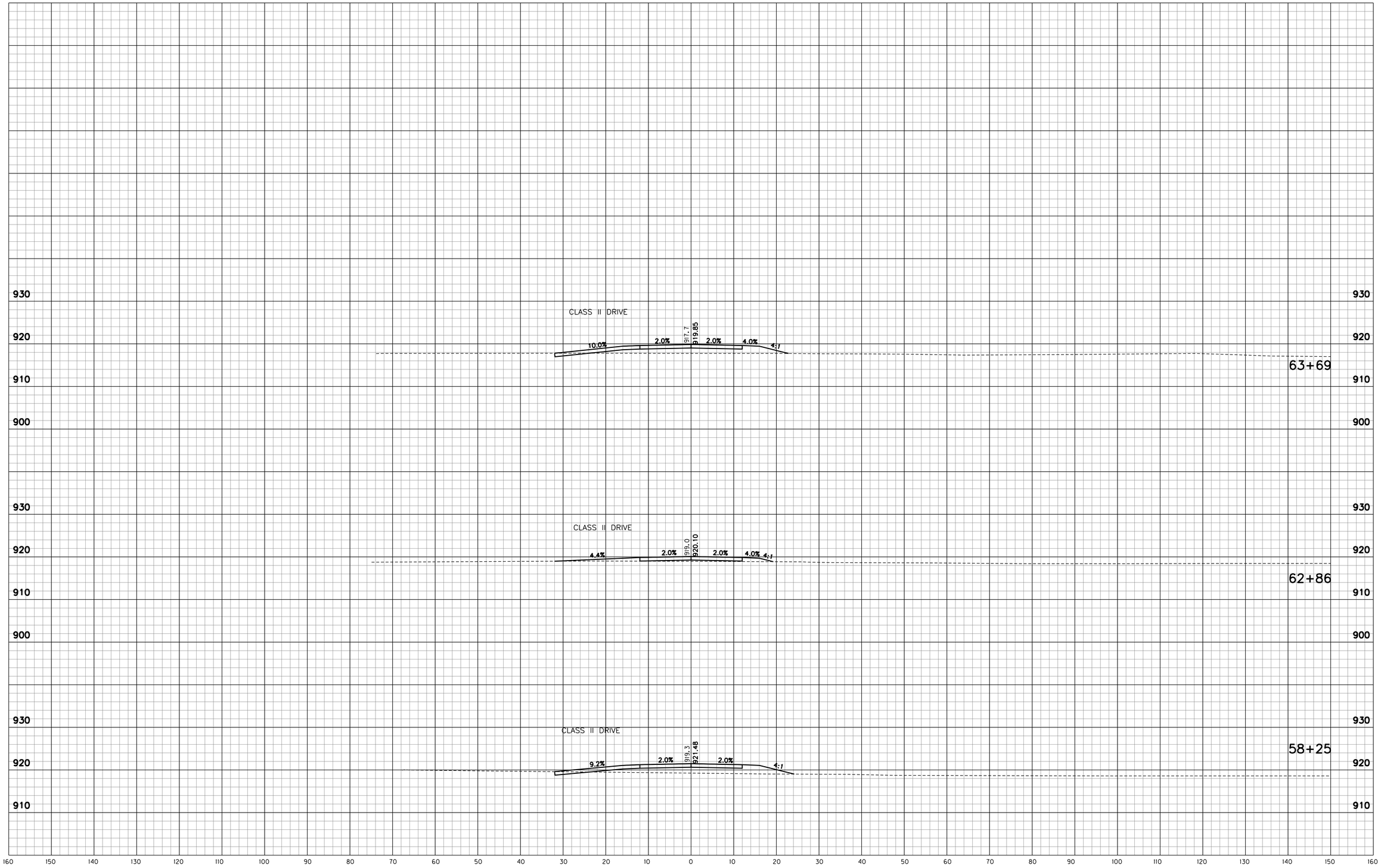
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

DRIVE SECTIONS
LINE "FRN1"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	146 of 148
CONTRACT	PROJECT
R-38240	1401702



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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
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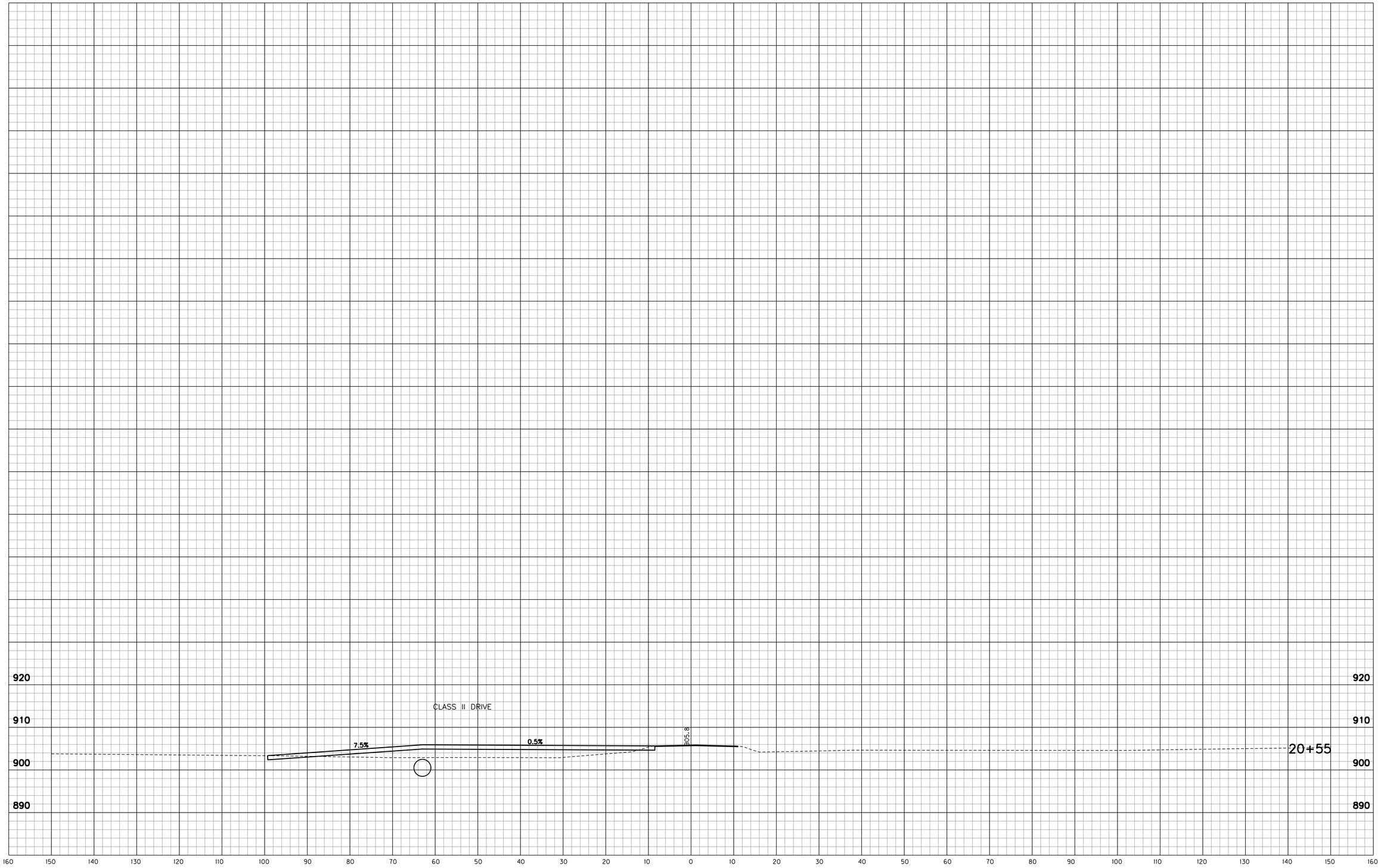
INDIANA
DEPARTMENT OF TRANSPORTATION

DRIVE SECTIONS
LINE "FRN2"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	147 of 148
CONTRACT	PROJECT
R-38240	1401702



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INDOT.tbl

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RSH DRAWN: KAM
CHECKED: KAM CHECKED: RSH

INDIANA
DEPARTMENT OF TRANSPORTATION

DRIVE SECTIONS
LINE "S-2-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1401702
SURVEY BOOK	SHEETS
	148 of 148
CONTRACT	PROJECT
R-38240	1401702