

Appendix B

To be used for Reference only for
the Franklin Street Sanitary Sewer
Extension

CITY OF GREENFIELD

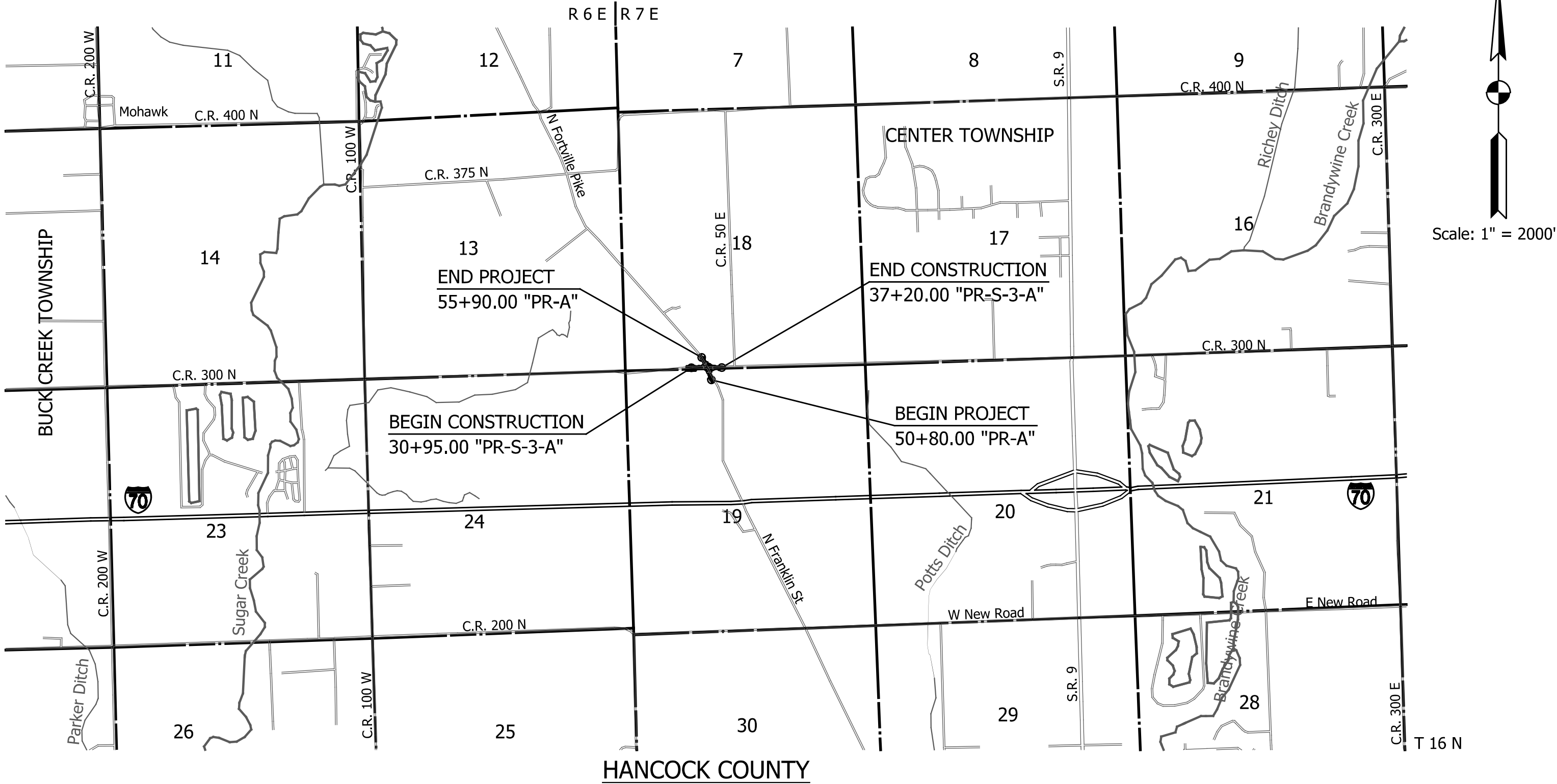
ROAD PLANS

ROUNDBOUT CONSTRUCTION AT THE INTERSECTION OF
FORTVILLE PIKE, N FRANKLIN STREET AND C.R. 300 N

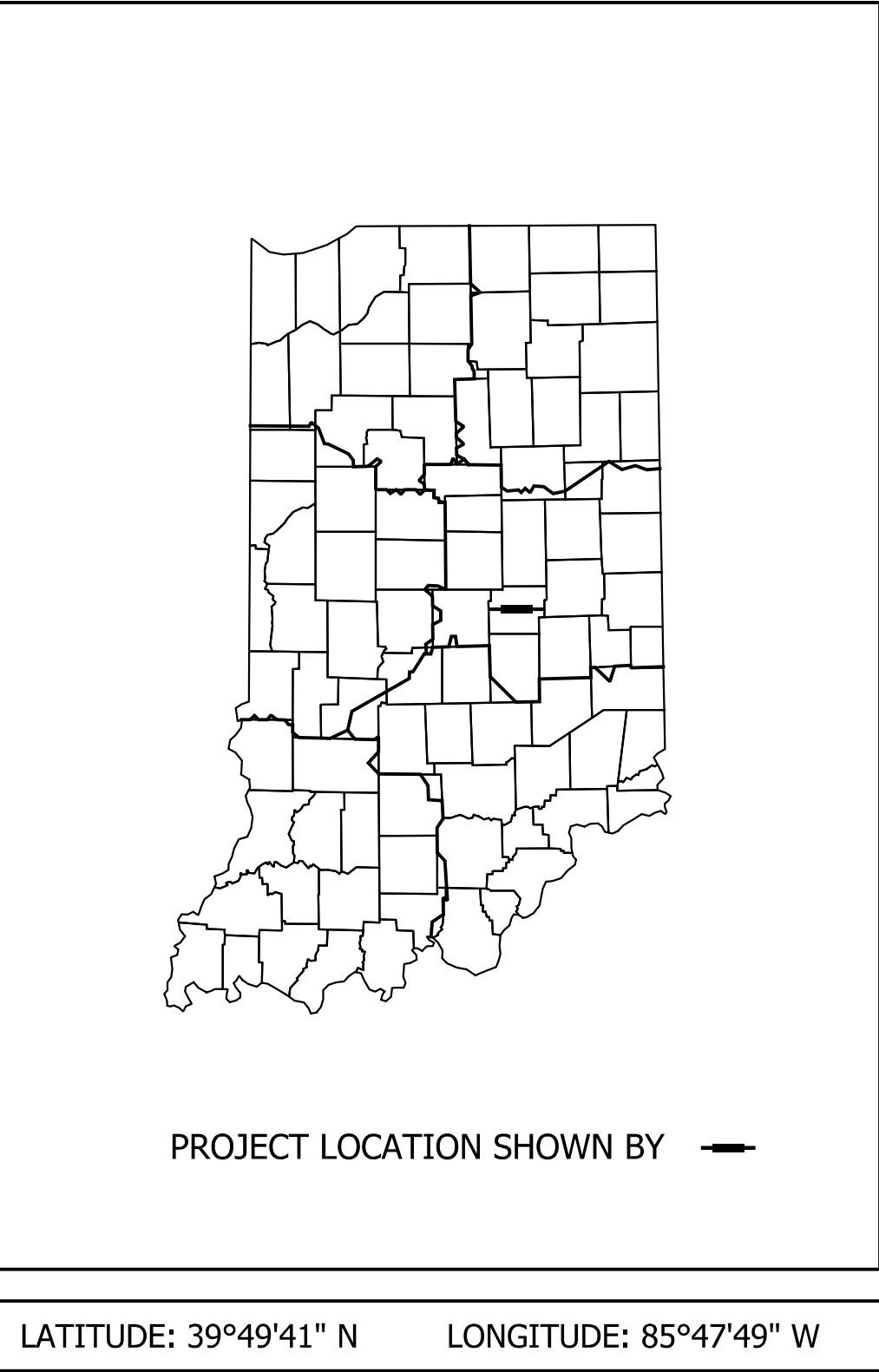
PROJECT NO. 2205FFE P.E.

Gross Length: 0.097 MI.
Net Length: 0.097 MI.
Maximum Grade: 4.000 %

PROJECT DESCRIPTION: Roundabout Construction at the intersection of Fortville Pike, Franklin St. and C.R. 300 N.
All in Sections 18 & 19, T-16-N, R-7-E in Center Township, Hancock County, Indiana.



TRAFFIC DATA - N FORTVILLE PIKE			
A.A.D.T.	2021	5,600	V.P.D.
A.A.D.T.	2045	6,900	V.P.D.
D.H.V	2045	830	V.P.H.
DIRECTIONAL DISTRIBUTION		51	%
TRUCKS		2 %	A.A.D.T.
		1 %	D.H.V.
DESIGN DATA			
DESIGN SPEED	50 M.P.H.		
PROJECT DESIGN CRITERIA	4R Reconstruction		
FUNCTIONAL CLASSIFICATION	Major Collector		
RURAL/URBAN	Urban (Suburban)		
TERRAIN	Level		
ACCESS CONTROL	None		



LATITUDE: 39°49'41" N LONGITUDE: 85°47'49" W

- NOTES:**
- CITY OF GREENFIELD STANDARDS FOR PUBLIC INFRASTRUCTURE CONSTRUCTION SHALL BE INCORPORATED BY REFERENCE INTO THESE PLANS. IF CONFLICTING STANDARDS OCCUR, THE FOLLOW ORDER OF PRECEDENCE SHALL GOVERN:
1. PROJECT SPECIAL PROVISIONS
 2. INFORMATION FOR BIDDERS
 3. SPECIAL GENERAL CONDITIONS
 4. GENERAL CONDITIONS
 5. CONTRACT FORMS
 6. CONSTRUCTION PLANS
 7. CITY OF GREENFIELD STANDARDS, MOST RECENT
 8. INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, MOST RECENT
 9. INDOT STANDARD DRAWINGS, MOST RECENT

NO ALTERNATE SPECIFICATIONS OR MATERIALS OR NEW MATERIALS MAY BE USED WITHOUT EXPRESS WRITTEN APPROVAL FROM THE CITY OF GREENFIELD PRIOR TO THE COMMENCEMENT OF WORK.



AMERICAN
STRUCTUREPOINT
INC.

9025 RIVER ROAD, SUITE 200
INDIANAPOLIS, IN 46240
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com



PLANS PREPARED BY: American Structurepoint, Inc. (317) 547-5580 PHONE NUMBER

CERTIFIED BY: *[Signature]* 4/15/2024 DATE

BRIDGE FILE	
N/A	
DESIGNATION	
2205FFE	
SHEETS	
SURVEY BOOK	1 56
N/A	
CONTRACT	PROJECT
N/A	2205FFE

UTILITIES			
<u>ELECTRIC</u> NineStar Connect 2243 E. Main St. Greenfield, IN 46140 (317) 326-3131 Eric Meyer	<u>COMMUNICATIONS</u> AT & T 240 N Meridian St. Indianapolis, IN 46204 (317) 372-9885 Tendai Inman	<u>ELECTRIC</u> Duke Transmission 1000 East Main Street Plainfield, IN 46168 Zach Boston (317)838-1053	<u>WATER</u> Greenfield Water 451 Meek Street Greenfield, IN 46140 (317) 325-1353 Charles Gill
	Comcast 5330 E. 65th St. Indianapolis, IN 46220 (317) 710-0602 William Morris		<u>GAS</u> CenterPoint Energy 4324 Middle Road Columbus, IN 47203 Timothy Langston 812-348-6703
	NineStar Connect 2243 E. Main St. Greenfield, IN 46140 (317) 323-2081 Jason Warrick		
	Everstream 342 Massachusetts Ave. Indianapolis, IN 46204 (317) 691-0588 Eddie Fields		

GENERAL NOTES	
**	All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding 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 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 existing fills, treatment by removal, or treatment by displacement, where each treatment applies.
	All limited access right-of-way (L.A. R/W) is to be fenced with chain link type fence (CLTF) or farm field type fence (FFTF) where specified in the plans.

** REPRESENTS GENERAL NOTES REQUIRED

INDEX	
SHEET NO.	DRAWING INDEX
1	TITLE SHEET
2	INDEX AND GENERAL NOTES
3-4	TYPICAL SECTIONS
5	MISCELLANEOUS DETAILS
6	STORMWATER TREATMENT STRUCTURE DETAILS
7	PLAT NO. 1
8-9	GEOMETRIC TIE-UPS DETAILS
10	DETOUR PLAN
11-13	PLAN AND PROFILES
14-16	CONSTRUCTION DETAILS
17-18	ROUNDAABOUT ALIGNMENT PLAN
19-20	SPOT ELEVATION DETAILS
21-24	EROSION CONTROL DETAILS
25-26	LANDSCAPE PLANS
27-28	IRRIGATION PLANS
29	LIGHTING DETAILS
30-34	PAVEMENT MARKING AND SIGHING DETAILS
35	SUMMARY OF QUANTITIES AND APPROACH TABLE
36	MISCELLANEOUS TABLES
37-38	UNDERDRAIN TABLES
39-40	STRUCTURE DATA TABLES
41	PIPE MATERIAL SHEET
42-56	CROSS SECTIONS

[illegible]

TRAFFIC DATA - N FRANKLIN ST.			
A.A.D.T.	2021	6,600	V.P.D.
A.A.D.T.	2045	11,400	V.P.D.
D.H.V.	2045	1,360	V.P.H.
DIRECTIONAL DISTRIBUTION			51 %
TRUCKS			3 % A.A.D.T.
			1 % D.H.V.

DESIGN DATA		
DESIGN SPEED	50	M.P.H.
PROJECT DESIGN CRITERIA	4R Reconstruction	
FUNCTIONAL CLASSIFICATION	Minor Arterial	
RURAL/URBAN	Suburban	
TERRAIN	Level	
ACCESS CONTROL	None	

TRAFFIC DATA - C.R. W 300 N			
A.A.D.T.	2021	2,700	V.P.D.
A.A.D.T.	2045	3,700	V.P.D.
D.H.V	2045	580	V.P.H.
DIRECTIONAL DISTRIBUTION		50	%
TRUCKS		9	A.A.D.T.
		1	D.H.V.

DESIGN DATA		
DESIGN SPEED	50	M.P.H.
PROJECT DESIGN CRITERIA	4R Reconstruction	
FUNCTIONAL CLASSIFICATION	Minor Arterial	
RURAL/URBAN	Suburban	
TERRAIN	Level	
ACCESS CONTROL	None	

TRAFFIC DATA - C.R. E 300 N			
A.A.D.T.	2021	3,400	V.P.D.
A.A.D.T.	2045	5,800	V.P.D.
D.H.V	2045	640	V.P.H.
DIRECTIONAL DISTRIBUTION		53	%
TRUCKS		9 %	A.A.D.T.
		1 %	D.H.V.

DESIGN DATA		
DESIGN SPEED	55	M.P.H.
PROJECT DESIGN CRITERIA	4R Reconstruction	
FUNCTIONAL CLASSIFICATION	Minor Arterial	
RURAL/URBAN	Suburban	
TERRAIN	Level	
ACCESS CONTROL	None	



6/07/2024

DATE _____

ASV

RJC

JAB

JAB

CITY OF GREENFIELD

INDEX AND GENERAL NOTES

BRIDGE FILE

N/A

DESIGNATION

2205EEF

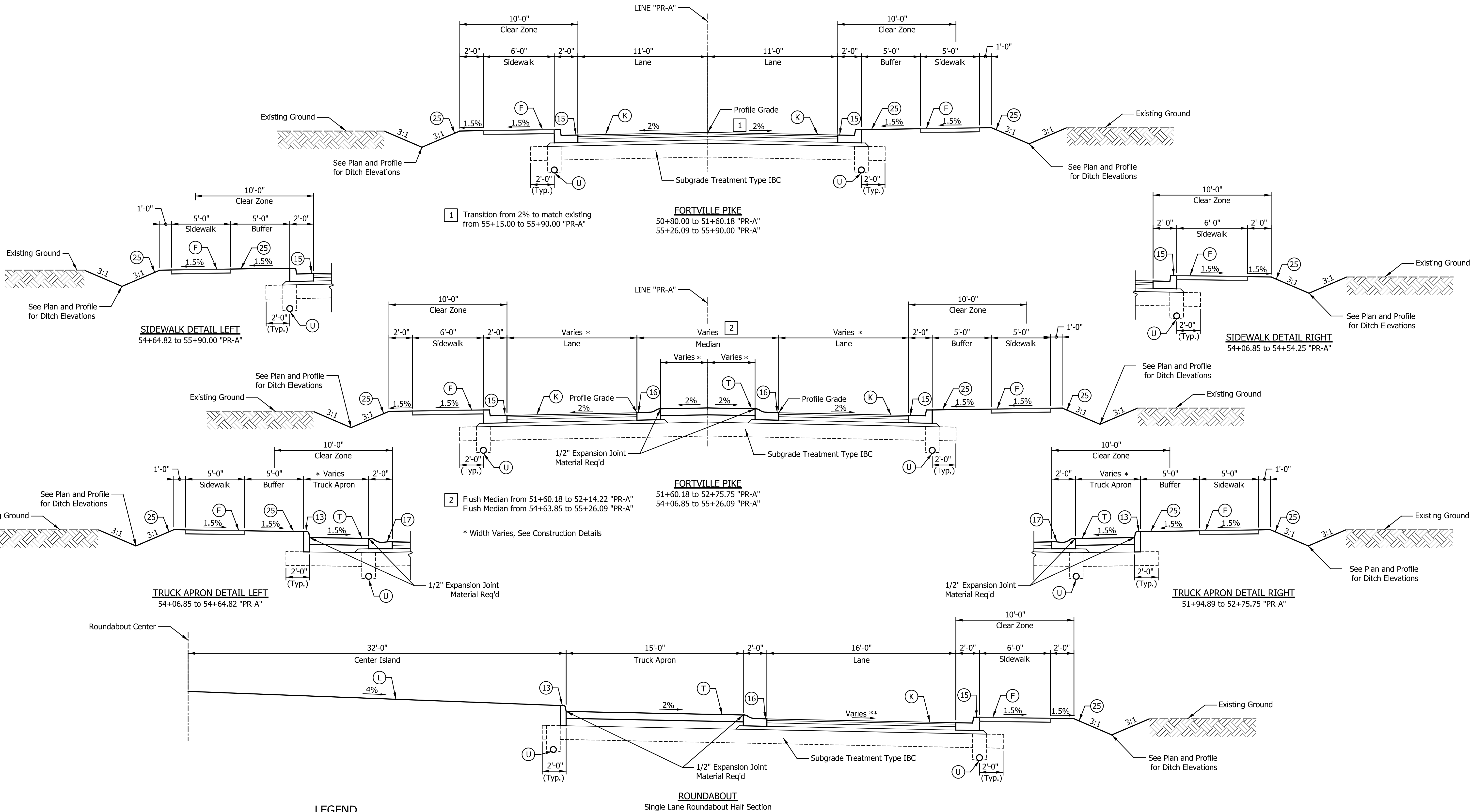
220511 L

SHEETS

	of	
--	----	--

PROJECT

2205FFE



- (F) Sidewalk, Concrete, 4 in.

(K) Full Depth HMA Pavement, Consisting of:
165 lbs/sys HMA Surface, Type "C", 9.5 mm, on
275 lbs/sys HMA Intermediate, Type "C", 19.0 mm, on
385 lbs/sys HMA Base, Type "C", 19.0 mm, on
385 lbs/sys HMA Base, Type "C", 19.0 mm

(T) PCCP for Truck Apron, Consisting of:
7 in. PCCP with D-1 Joints Spaced at
15 ft. and 1 in. Dia. Dowel Bars, on
7.5 in. Compacted Aggregate, No. 53

(U) Underdrain, 6 in.
- (13) Straight Concrete Curb, Modified
(See Miscellaneous Details)

(15) Vertical Curb and Gutter
(See Miscellaneous Details)

(16) Concrete Roll Curb & Gutter, Inverted Modified II
(See Miscellaneous Details)

(17) Concrete Roll Curb & Gutter, Modified I
(See Miscellaneous Details)

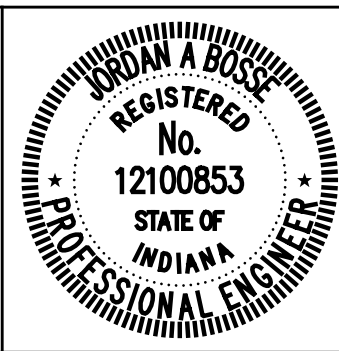
(25) Seed Mixture, U

(L) See Landscaping Plans
- ** Slope Varies, See Spot Elevations

LEGEND

ROUNDABOUT
Single Lane Roundabout Half Section

DATE	REVISION

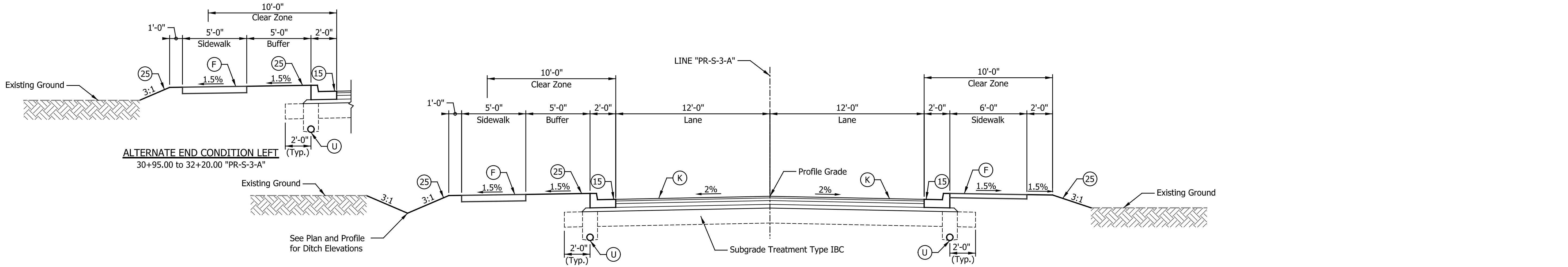


RECOMMENDED FOR APPROVAL	<i>Josh Bove</i>	6/07/2024
DESIGNED: ASV	DRAWN: ASV	DATE
CHECKED: JAB	CHECKED: JAB	

CITY OF GREENFIELD

TYPICAL CROSS SECTIONS
FORTVILLE PIKE - LINE "PR-A"

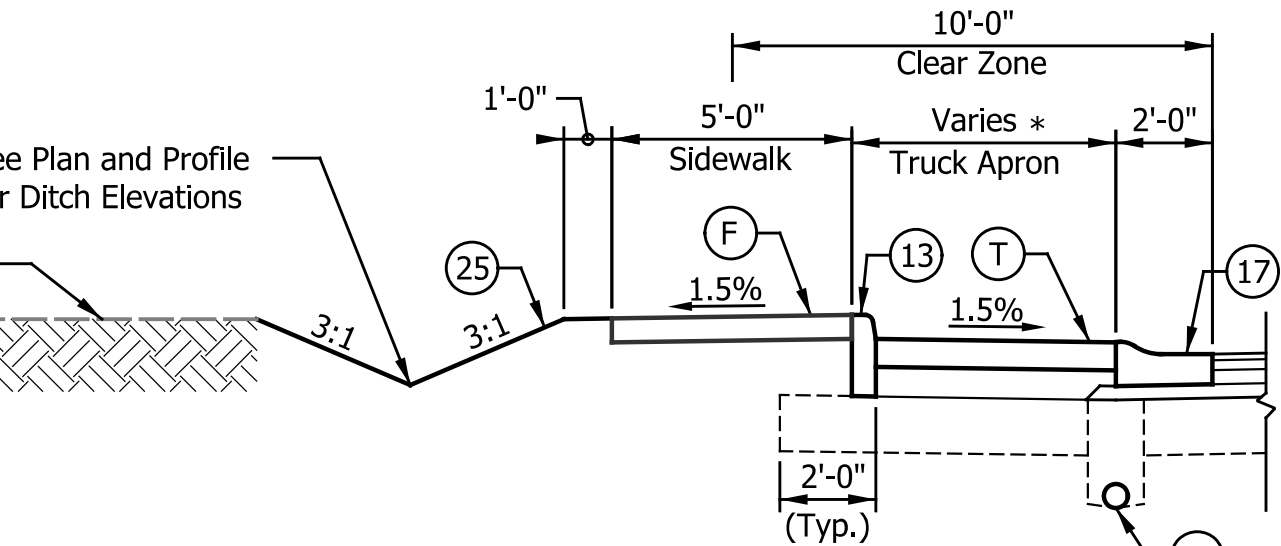
HORIZONTAL SCALE	BRIDGE FILE
1/4"=1'-0"	N/A
VERTICAL SCALE	DESIGNATION
1/4"=1'-0"	2205FFE
SURVEY BOOK	SHEETS
N/A	3 of 56
CONTRACT	PROJECT
N/A	2205FFE



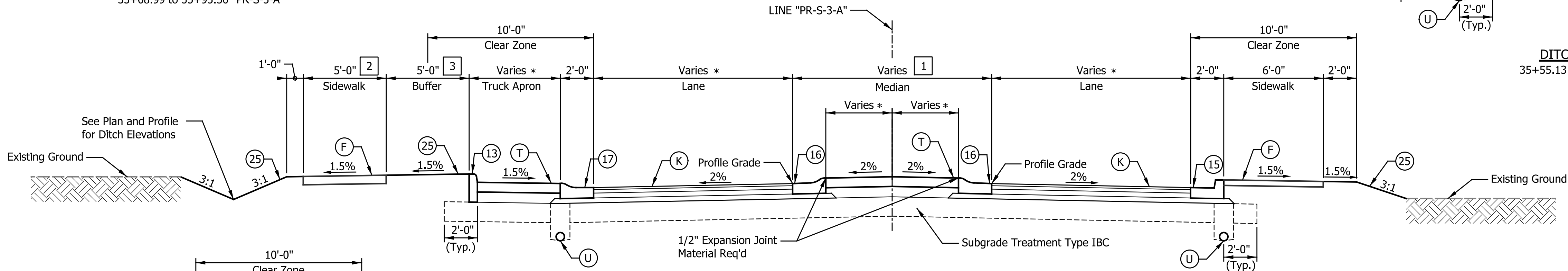
ALTERNATE END CONDITION LEFT
30+95.00 to 32+20.00 "PR-S-3-A"

CR 300 N
30+95.00 to 32+35.63 "PR-S-3-A"
36+26.03 to 37+20.00 "PR-S-3-A"

DITCH DETAIL RIGHT
35+55.13 to 37+20.00 "PR-S-3-A"

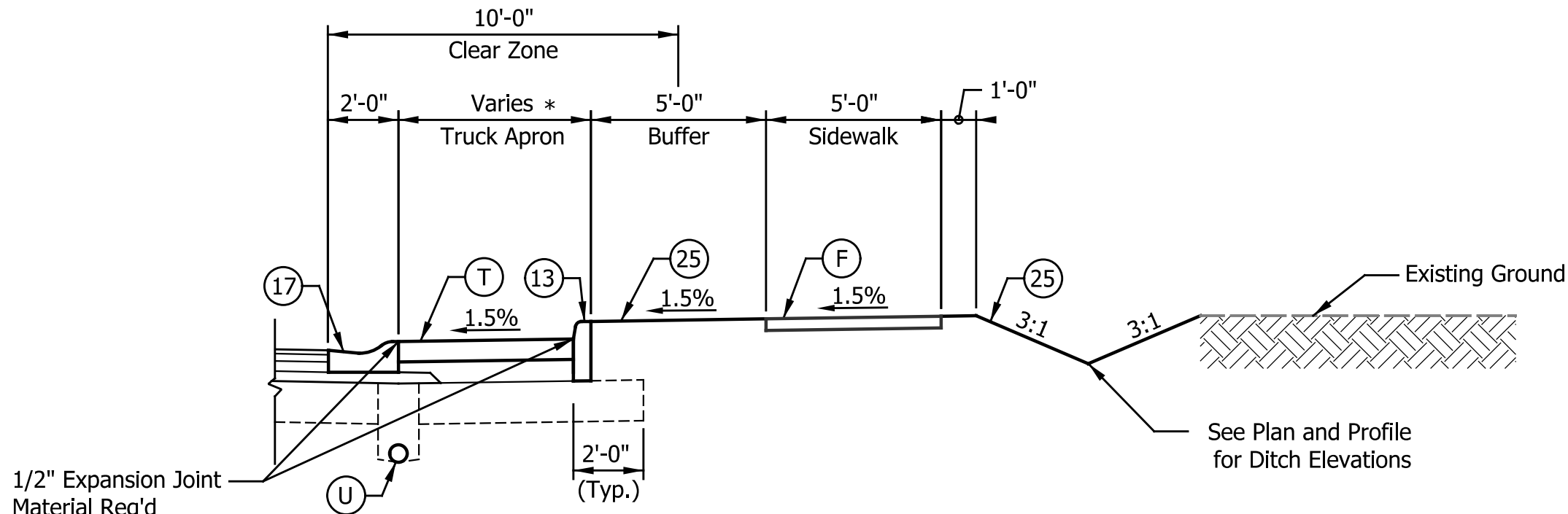


ALTERNATE END CONDITION LEFT
35+08.99 to 35+93.30 "PR-S-3-A"



CR 300 N
32+35.63 to 33+78.32 "PR-S-3-A"
35+08.99 to 36+26.03 "PR-S-3-A"

- 1 Flush Median from 32+35.63 to 33+25.64 "PR-S-3-A"
Flush Median from 35+57.62 to 36+26.03 "PR-S-3-A"
- 2 Is 6'-0" from 32+79.82 to 33+02.48 "PR-S-3-A"
- 3 Varies from 5'-0" to 1'-0" from 32+49.75 to 32+79.82 "PR-S-3-A"
Is 0'-0" from 32+79.82 to 33+02.48 "PR-S-3-A"
Varies from 1'-0" from 33+02.48 to 33+22.98 "PR-S-3-A"
* Width Varies, See Construction Details



TRUCK APRON & DITCH DETAIL RIGHT
35+08.99 to 35+55.13 "PR-S-3-A"

- (F) Sidewalk, Concrete, 4 in.
- (K) Full Depth HMA Pavement, Consisting of:
165 lbs/sys HMA Surface, Type "C", 9.5 mm, on
275 lbs/sys HMA Intermediate, Type "C", 19.0 mm, on
385 lbs/sys HMA Base, Type "C", 19.0 mm, on
385 lbs/sys HMA Base, Type "C", 19.0 mm
- (T) PCCP for Truck Apron, Consisting of:
7 in. PCCP with D-1 Joints Spaced at
15 ft. and 1 in. Dia. Dowel Bars, on
7.5 in. Compacted Aggregate, No. 53
- (U) Underdrain, 6 in.
- (13) Straight Concrete Curb, Modified
(See Miscellaneous Details)
- (15) Vertical Curb and Gutter
(See Miscellaneous Details)
- (16) Concrete Roll Curb & Gutter, Inverted Modified II
(See Miscellaneous Details)
- (17) Concrete Roll Curb & Gutter, Modified I
(See Miscellaneous Details)
- (25) Seed Mixture, U
- (L) See Landscaping Plans

LEGEND

DATE	REVISION



RECOMMENDED FOR APPROVAL	<i>Josh Bove</i>	6/07/2024
DESIGNED: ASV	DRAWN: ASV	DATE
CHECKED: JAB	CHECKED: JAB	

CITY OF GREENFIELD

TYPICAL CROSS SECTIONS
CR 300 N - LINE "PR-S-3-A"

HORIZONTAL SCALE	BRIDGE FILE
1/4"=1'-0"	N/A
VERTICAL SCALE	DESIGNATION
1/4"=1'-0"	2205FFE
SURVEY BOOK	SHEETS
N/A	4 of 56
CONTRACT	PROJECT
N/A	2205FFE

PLAN VIEW

SECTION A-A

TRENCH DRAIN TYPE I DETAIL

PLAN VIEW

SECTION D-D

TRENCH DRAIN TYPE II DETAIL

PLAN VIEW

SECTION E-E

TRENCH DRAIN TYPE III DETAIL

MOWER ACCESS CURB CUT DETAIL

SECTION B-B

TRENCH DRAIN DETAIL

SECTION C-C

MODIFIED CONCRETE GUTTER DETAIL

UNDERDRAIN DETAIL - CURB & GUTTER

Scale: 1/2"=1'-0"

⑬ STRAIGHT CONCRETE CURB,
MODIFIED DETAIL

Scale: 1"=1'-0"

⑩ CONCRETE ROLL CURB AND
GUTTER, INVERTED MODIFIED II DETAIL

Scale: 1" = 1'-0"

⑪ CONCRETE ROLL CURB AND GUTTER, MODIFIED I DETAIL

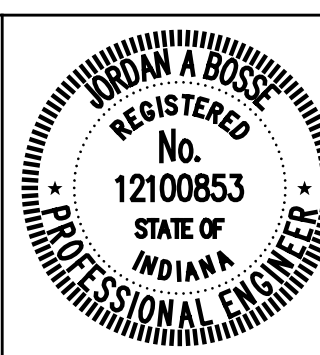
Scale: 1" = 1'-0"

⑮ VERTICAL CURB AND GUTTER DETAIL

Scale: 1"=1'-0"

(18) INVERTED CURB AND GUTTER DETAIL

Scale: 1"=1'-0"

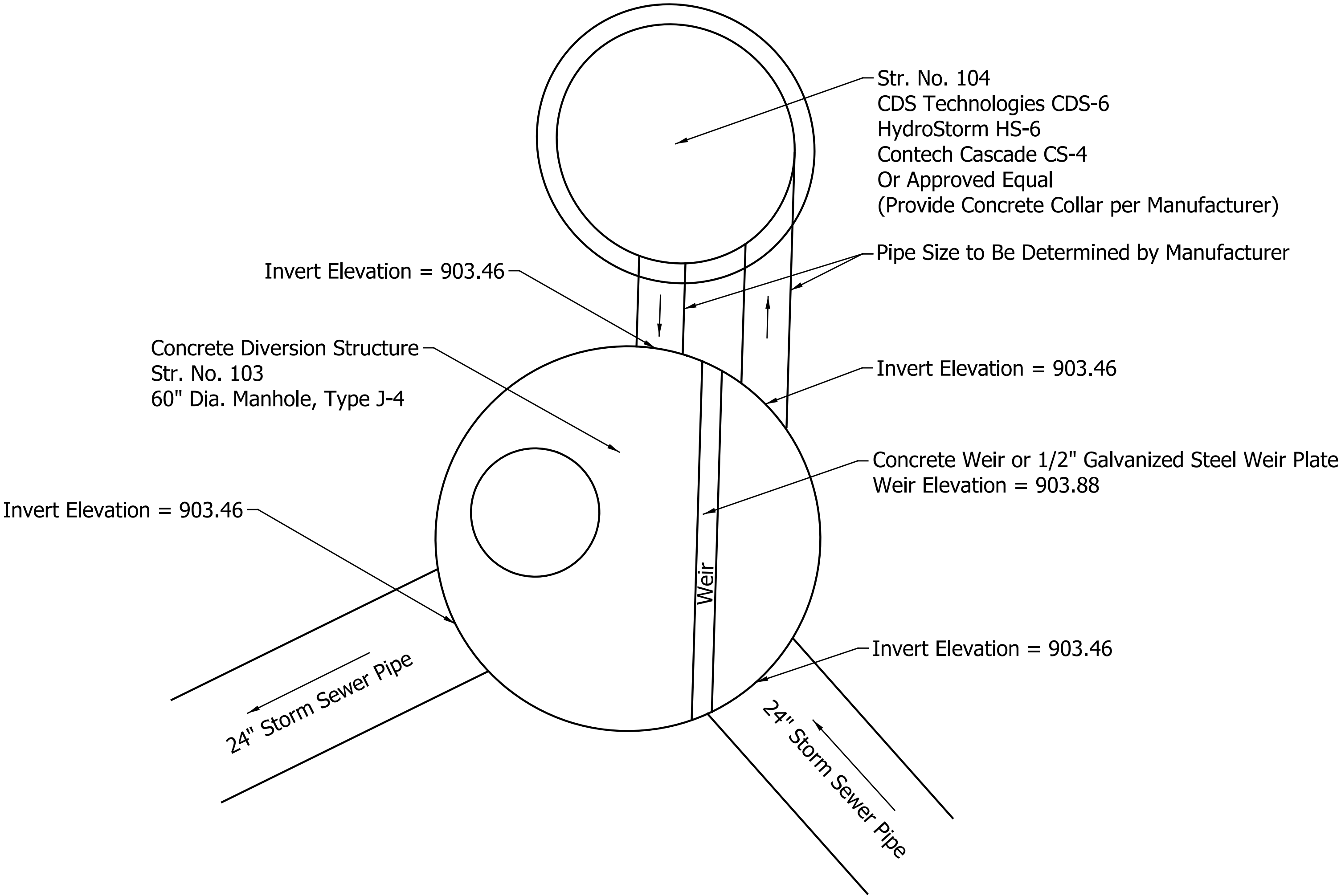
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RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	6/07/20
DESIGN ENGINEER		DATE
DESIGNED: JLH	DRAWN: RJC	
CHECKED: JAB	CHECKED: JAB	

CITY OF GREENFIELD

MISCELLANEOUS DETAILS

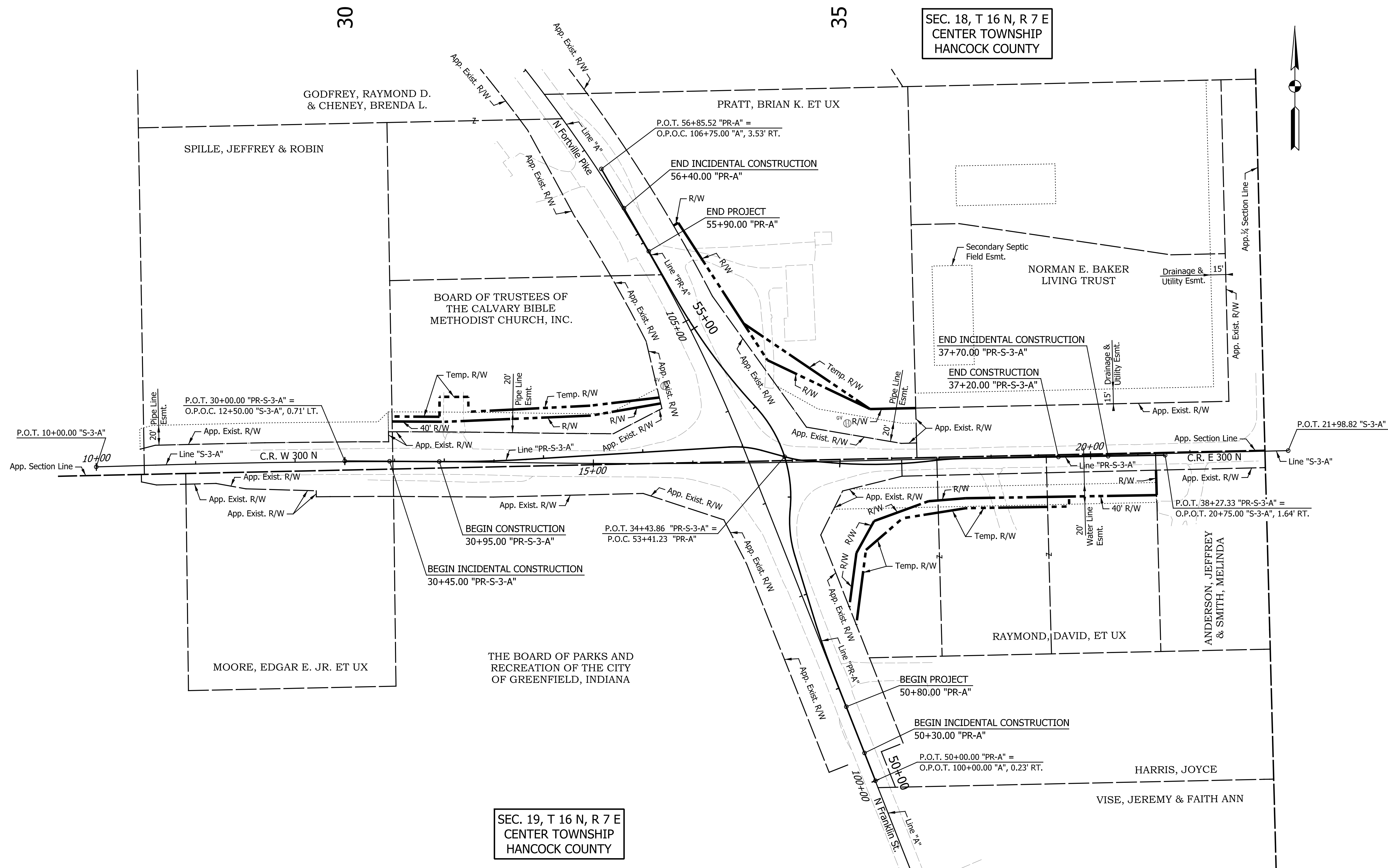
HORIZONTAL SCALE		BRIDGE FILE	
1/2"=1'-0", UNLESS NOTED		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		2205FFE	
SURVEY BOOK		SHEETS	
N/A		5	of 56
CONTRACT		PROJECT	
N/A		2205FFE	

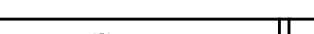


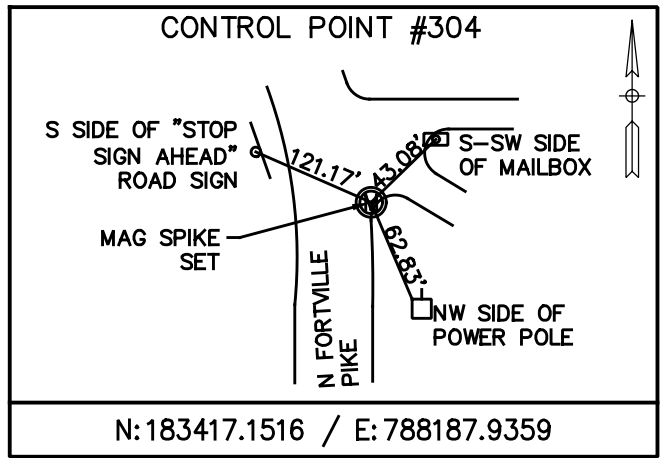
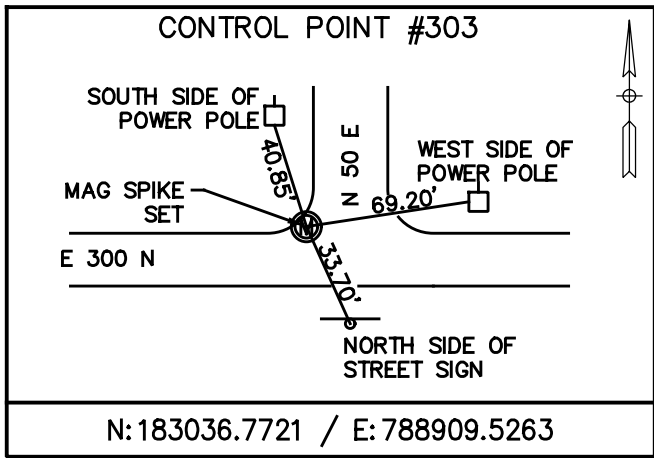
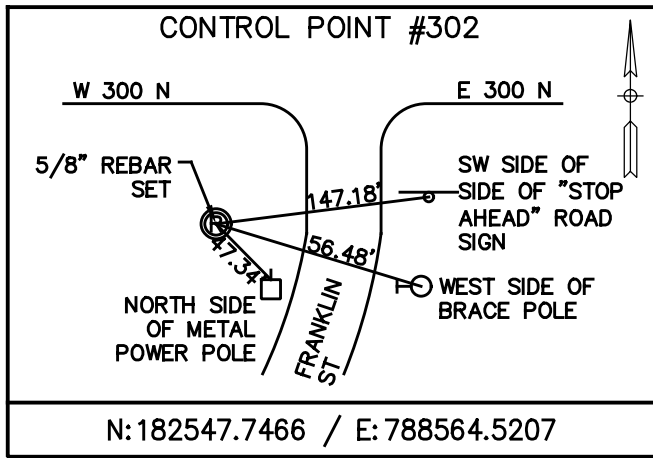
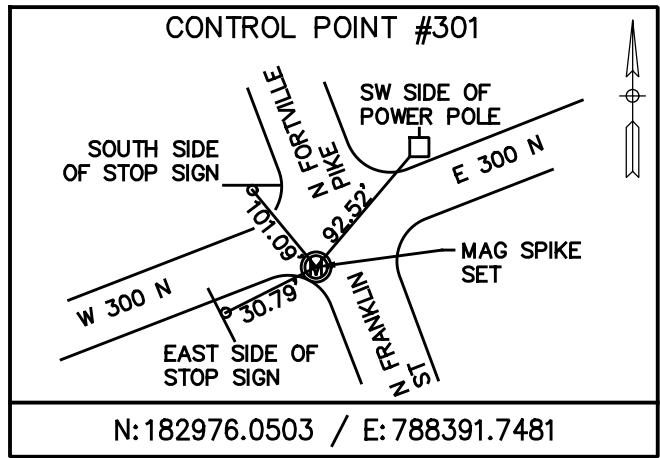
STORMWATER BMP OFF-LINE GEOMETRY
Scale: 3/4" = 1'

NOTES:
-Refer to INDOT Standard Drawing E 720-MHST-05 for Additional Information
-Dimensions of Manhole, Type J-4 Not Provided. Manhole Shall be Consistent with E 720-MHST-05.
-Contractor Shall be Responsible for Structural Design of Manhole, Type J-4 for any Modifications from Standards.

DATE	REVISION		RECOMMENDED FOR APPROVAL:  6/07/2024 DESIGN ENGINEER DATE		CITY OF GREENFIELD	HORIZONTAL SCALE	BRIDGE FILE	
						AS NOTED	N/A	
						VERTICAL SCALE	DESIGNATION	
						2205FFE		
					DESIGNED: JLH DRAWN: RJC	SURVEY BOOK SHEETS		
					CHECKED: JAB CHECKED: JAB	N/A 6 of 56		
					STORMWATER TREATMENT STRUCTURE DETAILS	CONTRACT PROJECT		
						N/A 2205FFE		



DATE	REVISION		RECOMMENDED FOR APPROVAL <u>Josh Boser</u> 6/07/2024 DESIGN ENGINEER DATE	CITY OF GREENFIELD	HORIZONTAL SCALE	BRIDGE FILE
			DESIGNED: <u>JLH</u> DRAWN: <u>RJC</u>		1"=50'	N/A
			CHECKED: <u>JAB</u> CHECKED: <u>JAB</u>		VERTICAL SCALE	DESIGNATION
				N/A	2205FFE	
				PLAT NO. 1	SURVEY BOOK	SHEETS
					N/A	7 of 56
			CONTRACT		PROJECT	
				N/A	2205FFE	



BENCHMARK INFORMATION (NAVD 88 DATUM)

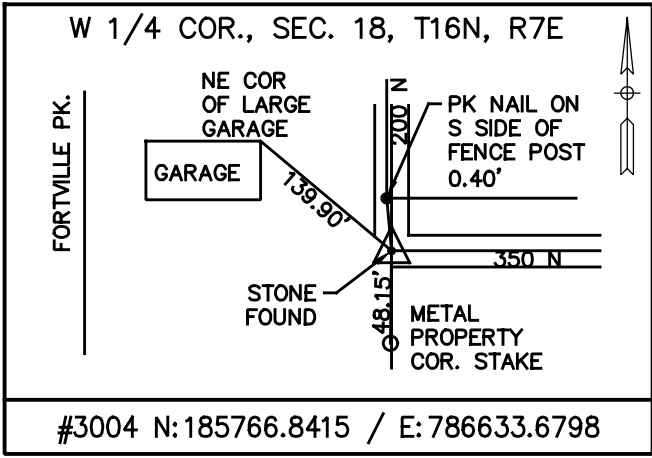
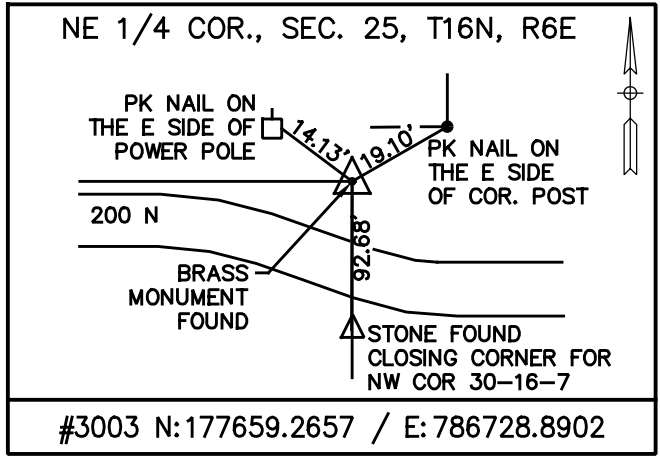
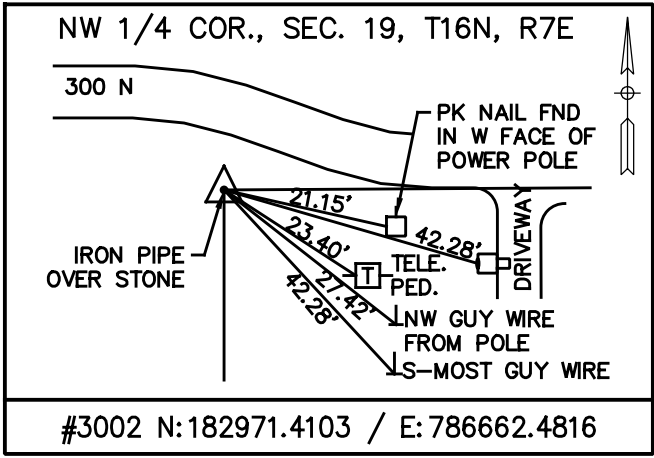
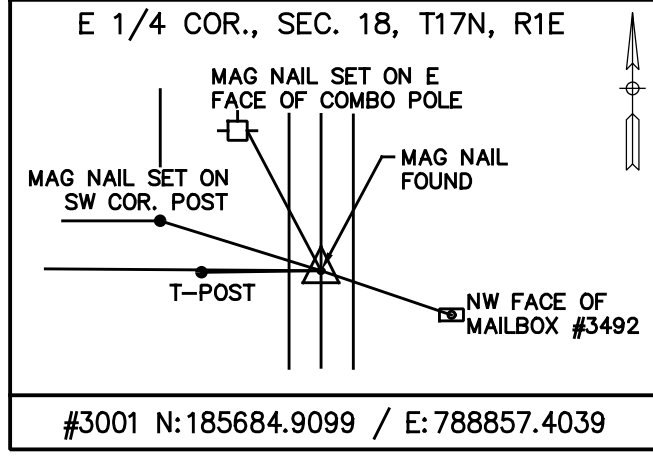
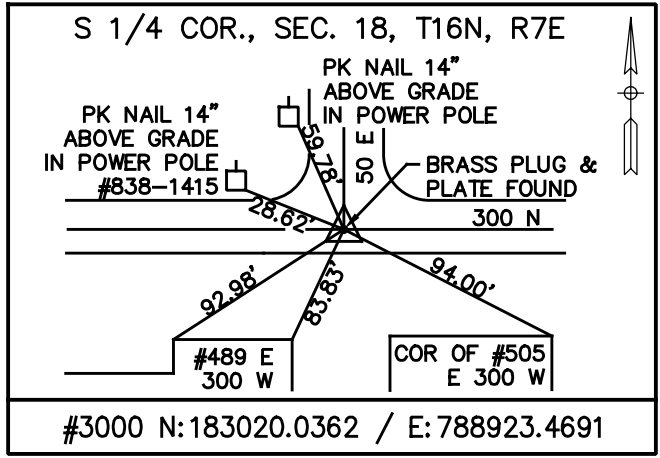
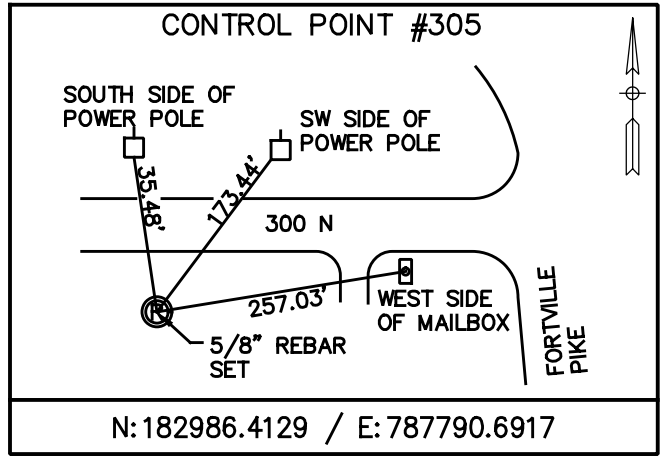
BENCHMARK ELEVATIONS WERE ESTABLISHED FROM GPS OBSERVATIONS ON THE IDENTIFIED BASE STATION DESCRIBED WITHIN. AN NGS OPUS SOLUTION (FILE #20-04752680) WAS OBTAINED AND USED TO CONTROL THE PROJECT'S VERTICAL DATUM. THE ELEVATIONS WERE THEN TRANSFERRED TO THE SITE USING DIFFERENTIAL LEVELING.

TBM #30
CHISELED "X" ON THE W BOLT OF A FIRE HYDRANT ON THE SOUTH SIDE OF CR 300 & ±125' E OF RES# 287.
ELEV: 907.53'

TBM #31
MAG SPIKE SET IN THE EAST FACE OF A POWER POLE, ±40' WEST OF FORTVILLE PIKE & ±200' SOUTH OF CR 300.
ELEV: 904.77'

TBM #32
MAG SPIKE SET IN THE SOUTH FACE OF A COMBO POLE, ±30' NORTH OF CR 300 & ±150' EAST OF FORTVILLE PIKE.
ELEV: 908.59'

TBM #33
MAG SPIKE SET IN THE WEST FACE OF A POWER POLE, ±40' EAST OF FORTVILLE PIKE & ±180' NORTH OF CR 300.
ELEV: 915.21'



CHAIN	STATION	NORTHING	EASTING
"A"	P.O.T. 98+00.00	182,501.738	788,605.2314
	P.C. 103+54.89	183,017.6989	788,401.049
	P.I. 106+19.49	183,263.7281	788,303.6873
	P.T. 108+78.96	183,463.1486	788,129.7876
	P.O.T. 111+08.42	183,636.0893	787,978.9792

CHAIN	STATION	NORTHING	EASTING
"S-3-A"	P.O.T. 10+00.00	183,003.3571	787,748.2689
	P.C. 10+59.96	183,005.137	787,808.1994
	P.I. 12+41.92	183,010.5388	787,990.0823
	P.T. 14+23.82	183,007.6654	788,172.0227
	P.C. 14+24.90	183,007.6483	788,173.1026
	P.I. 15+82.24	183,005.1638	788,330.4199
	P.T. 17+39.53	183,008.8667	788,487.7132
	P.O.T. 21+98.82	183,019.6759	788,946.8691

CHAIN	STATION	NORTHING	EASTING
"PR-A"	P.O.T. 50+00.00	182,687.7887	788,531.8485
	P.C. 51+12.21	182,792.1923	788,490.7277
	P.I. 51+43.72	182,821.5065	788,479.182
	P.T. 51+75.19	182,851.6271	788,469.9423
	P.C. 52+40.57	182,914.1297	788,450.7693
	P.I. 52+64.50	182,937.0091	788,443.7509
	P.R.C. 52+87.81	182,960.8305	788,446.0461
	P.I. 53+47.24	183,019.9863	788,451.7457
	P.R.C. 53+99.55	183,063.5994	788,411.3752
	P.I. 54+67.19	183,113.2408	788,365.4246
	P.T. 55+34.27	183,171.867	788,331.6801
	P.O.T. 56+85.52	183,302.9583	788,256.2257

CHAIN	STATION	NORTHING	EASTING
"PR-S-3-A"	P.O.T. 30+00.00	183,009.2319	787,998.2037
	P.C. 31+02.14	183,008.6793	788,100.3455
	P.I. 31+42.19	183,008.4626	788,140.3878
	P.T. 31+82.20	183,010.8895	788,180.3571
	P.C. 33+87.04	183,023.3041	788,384.8227
	P.I. 34+03.59	183,024.3068	788,401.3364
	P.T. 34+19.83	183,019.9375	788,417.2932
	P.C. 34+46.61	183,012.8669	788,443.1153
	P.I. 34+55.97	183,010.3937	788,452.1474
	P.T. 34+65.28	183,009.6405	788,461.4816
	P.C. 34+92.18	183,007.4771	788,488.2902
	P.I. 35+42.87	183,003.3992	788,538.8237
	P.R.C. 35+93.23	183,009.5478	788,589.1473
	P.I. 36+09.64	183,011.5386	788,605.4416
	P.T. 36+26.03	183,011.8086	788,621.8548
	P.O.T. 38+27.33	183,015.1193	788,823.1253

DATE	REVISION

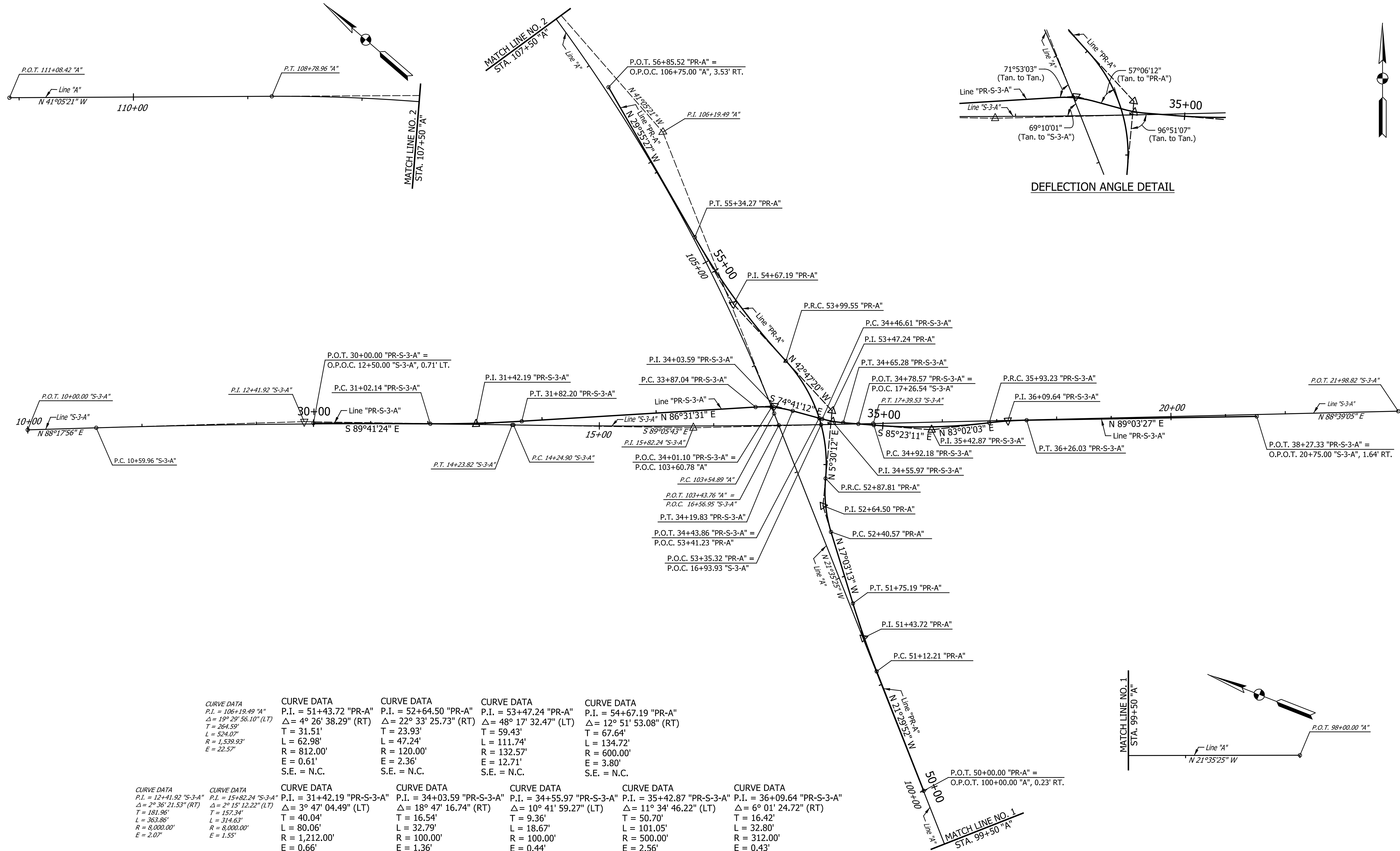


RECOMMENDED FOR APPROVAL	<i>Jordan A. Boser</i>	6/07/2024
	DESIGN ENGINEER	DATE
DESIGNED:	JLH	DRAWN:
		RJC
CHECKED:	JAB	CHECKED:
		JAB

CITY OF GREENFIELD
REFERENCE POINTS

HORIZONTAL SCALE	BRIDGE FILE
NONE	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	8 of 56
CONTRACT	PROJECT
N/A	2205FFE

Ind:\d\c\info
Indiana_Shae\c\to



CURVE DATA
P.I. = 106+19.49 "A"
Δ = 19° 29' 56.10" (LT)
T = 264.59'
L = 524.07'
R = 1,539.93'
E = 22.57'

CURVE DATA
P.I. = 12+41.92 "S-3-A"
Δ = 2° 36' 21.53" (RT)
T = 181.96'
L = 363.86'
R = 8,000.00'
E = 2.07'

CURVE DATA
P.I. = 15+82.24 "S-3-A"
Δ = 2° 15' 12.22" (LT)
T = 157.34'
L = 314.63'
R = 8,000.00'
E = 1.55'

CURVE DATA
P.I. = 51+43.72 "PR-A"
Δ = 4° 26' 38.29" (RT)
T = 31.51'
L = 62.98'
R = 812.00'
E = 0.61'
S.E. = N.C.

CURVE DATA
P.I. = 31+42.19 "PR-S-3-A"
Δ = 3° 47' 04.49" (LT)
T = 40.04'
L = 80.06'
R = 1,212.00'
E = 0.66'
S.E. = N.C.

CURVE DATA
P.I. = 52+64.50 "PR-A"
Δ = 22° 33' 25.73" (RT)
T = 23.93'
L = 47.24'
R = 120.00'
E = 2.36'
S.E. = N.C.

CURVE DATA
P.I. = 34+03.59 "PR-S-3-A"
Δ = 18° 47' 16.74" (RT)
T = 16.54'
L = 32.79'
R = 100.00'
E = 1.36'
S.E. = N.C.

CURVE DATA
P.I. = 53+47.24 "PR-A"
Δ = 48° 17' 32.47" (LT)
T = 59.43'
L = 111.74'
R = 132.57'
E = 12.71'
S.E. = N.C.

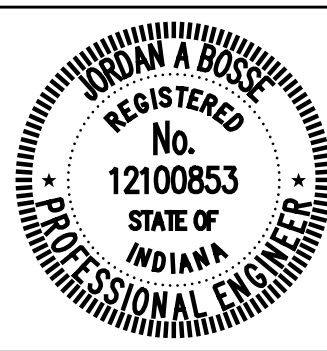
CURVE DATA
P.I. = 34+55.97 "PR-S-3-A"
Δ = 10° 41' 59.27" (LT)
T = 9.36'
L = 18.67'
R = 100.00'
E = 0.44'
S.E. = N.C.

CURVE DATA
P.I. = 54+67.19 "PR-A"
Δ = 12° 51' 53.08" (RT)
T = 67.64'
L = 134.72'
R = 600.00'
E = 3.80'
S.E. = N.C.

CURVE DATA
P.I. = 34+55.97 "PR-S-3-A"
Δ = 11° 34' 46.22" (LT)
T = 50.70'
L = 101.05'
R = 500.00'
E = 2.56'
S.E. = N.C.

CURVE DATA
P.I. = 36+09.64 "PR-S-3-A"
Δ = 6° 01' 24.72" (RT)
T = 16.42'
L = 32.80'
R = 312.00'
E = 0.43'
S.E. = N.C.

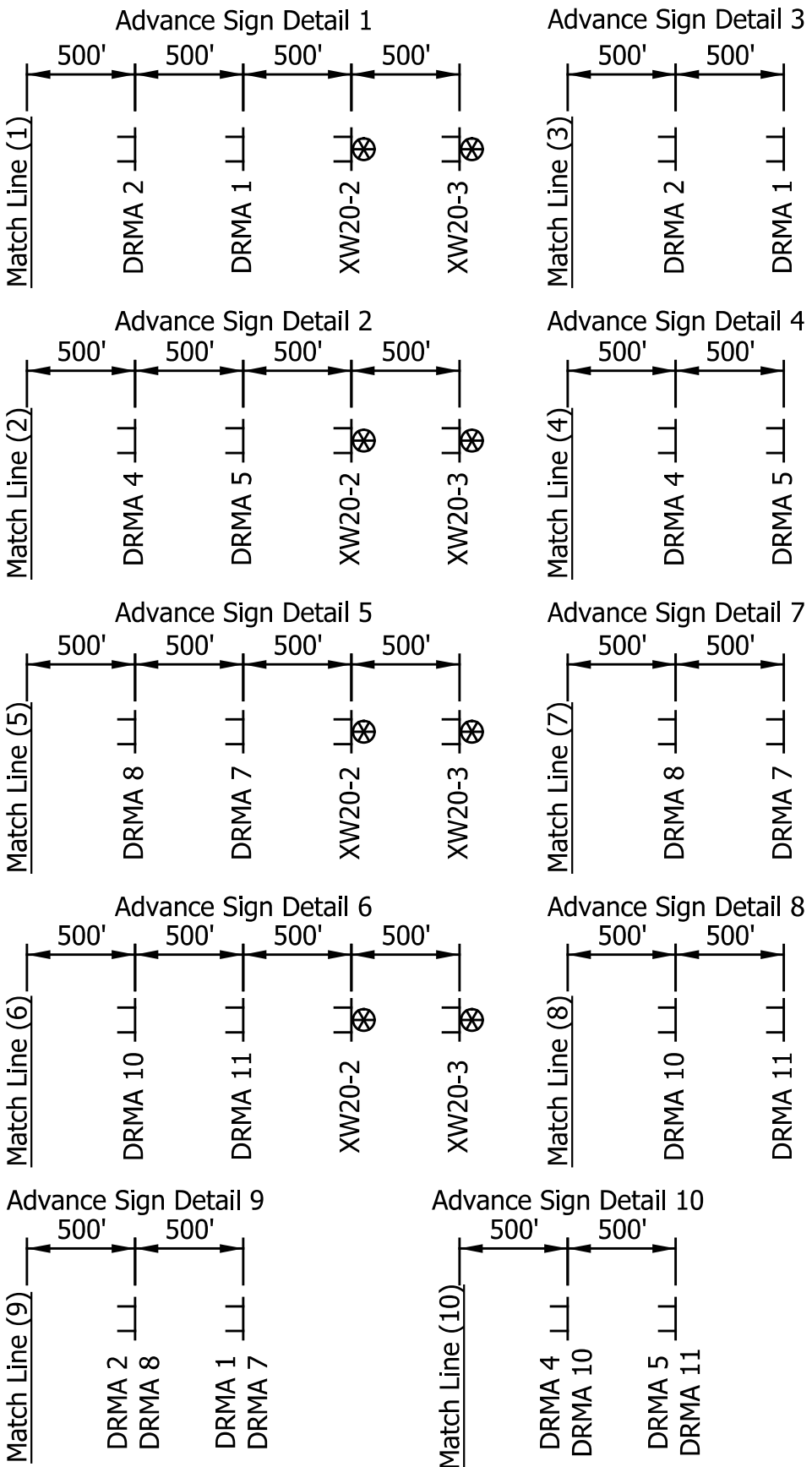
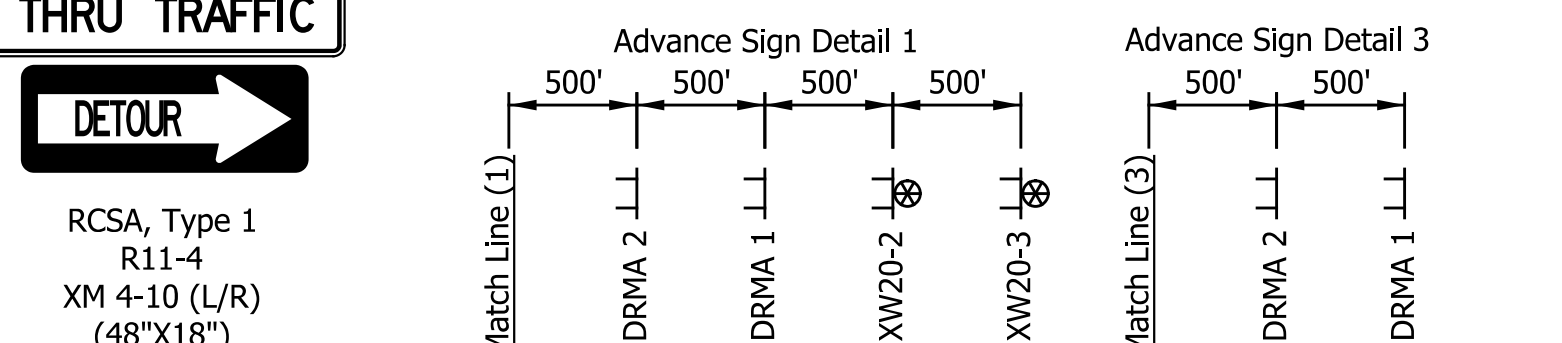
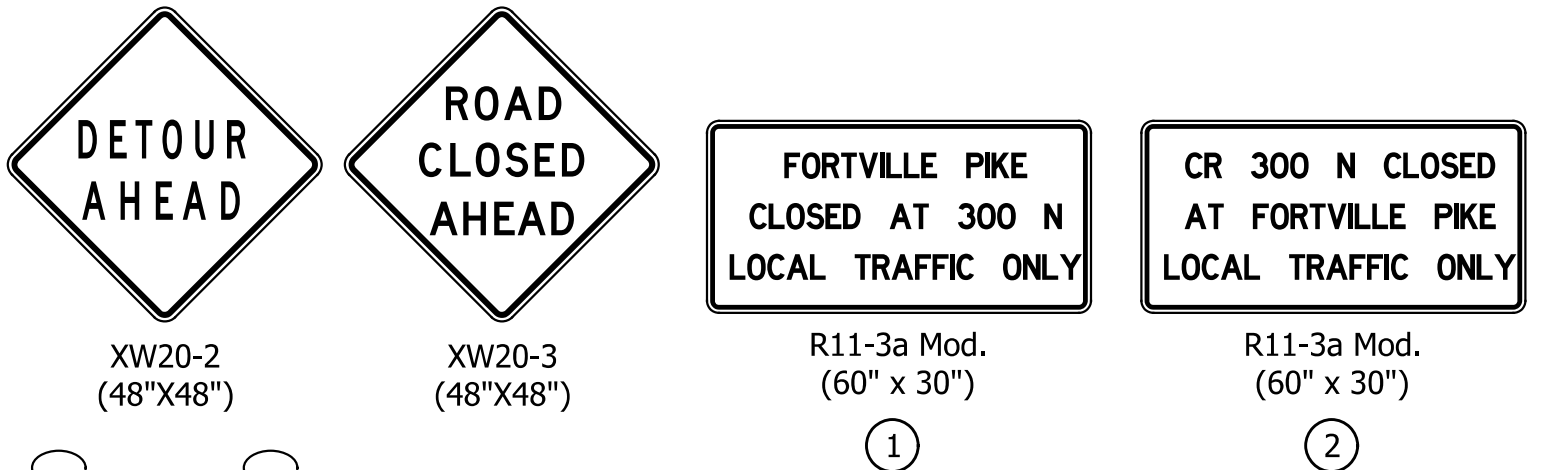
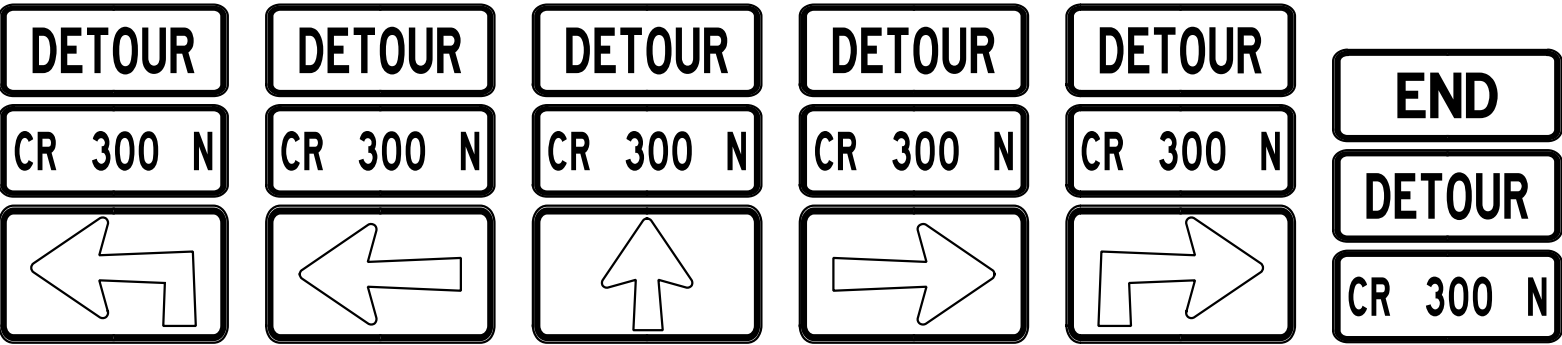
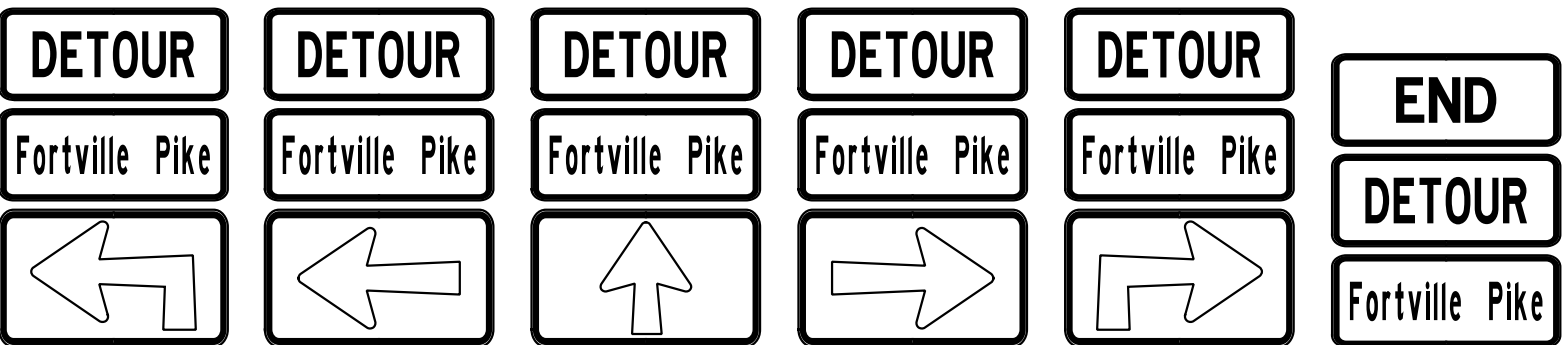
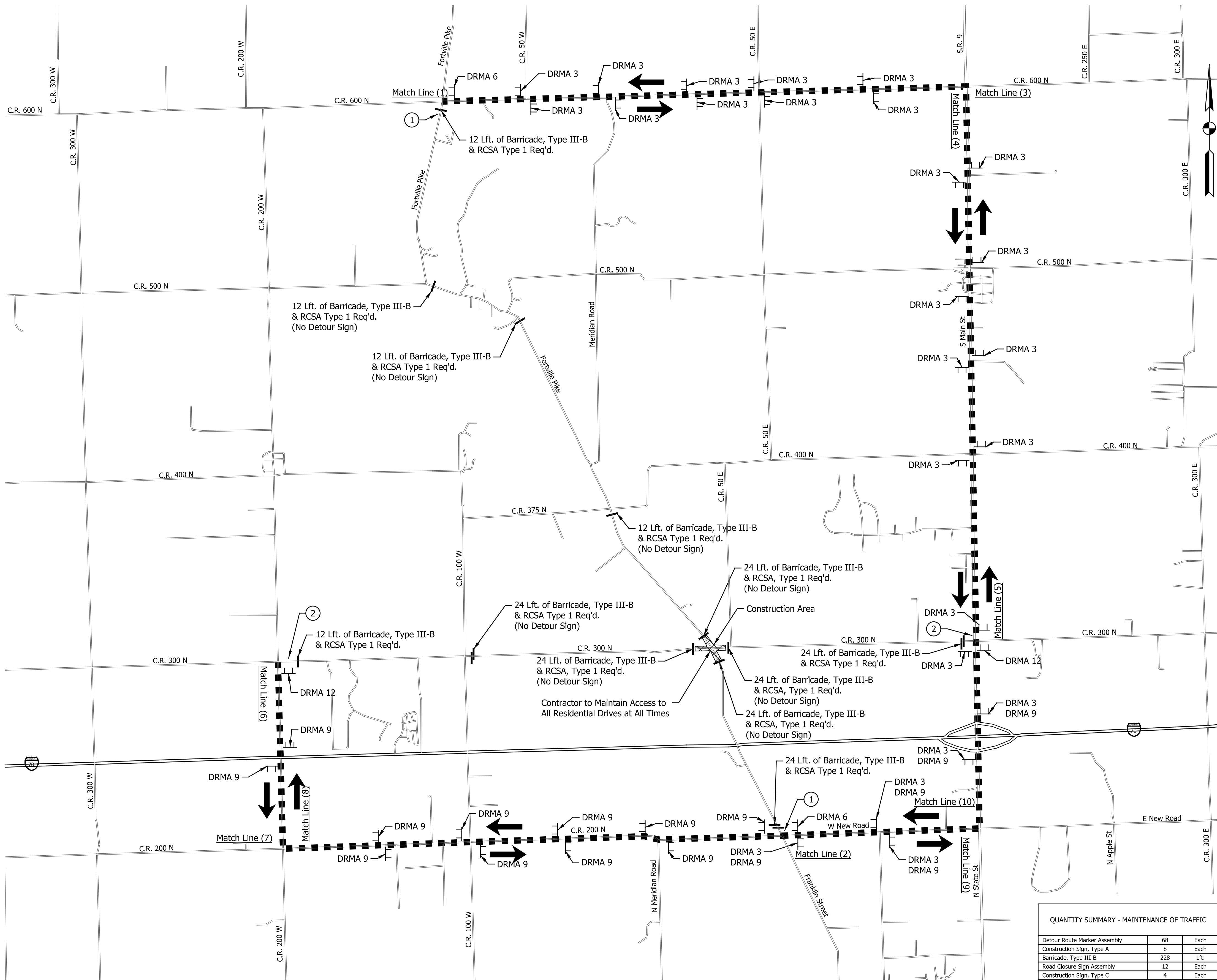
DATE	REVISION



RECOMMENDED FOR APPROVAL	<i>Josh Bove</i>	6/07/2024
DESIGNED:	JLH	DRAWN:
CHECKED:	JAB	CHECKED:

CITY OF GREENFIELD
GEOMETRIC TIE-UP DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=40'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	9 of 56
CONTRACT	PROJECT
N/A	2205FFE



QUANTITY SUMMARY - MAINTENANCE OF TRAFFIC		
Detour Route Marker Assembly	68	Each
Construction Sign, Type A	8	Each
Barricade, Type III-B	228	Lft.
Road Closure Sign Assembly	12	Each
Construction Sign, Type C	4	Each

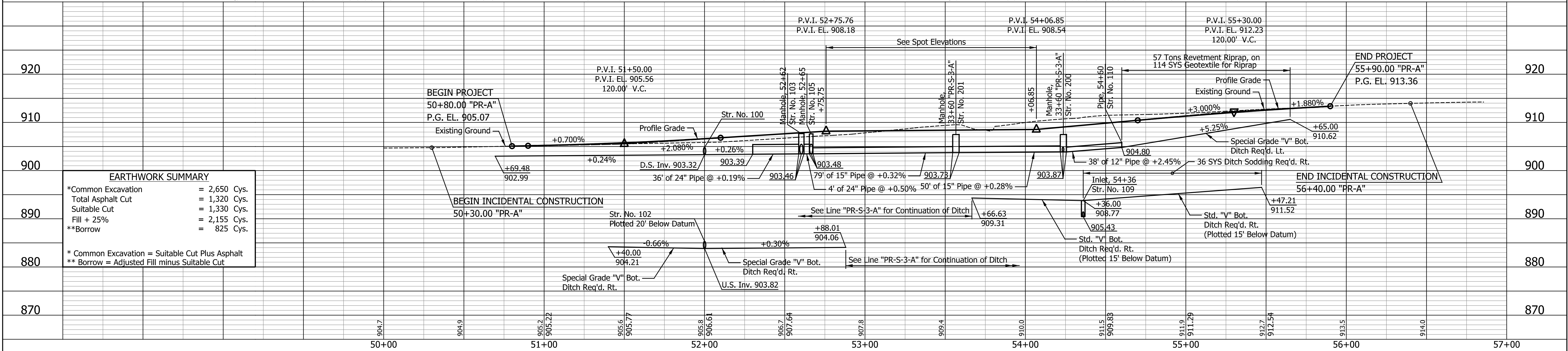
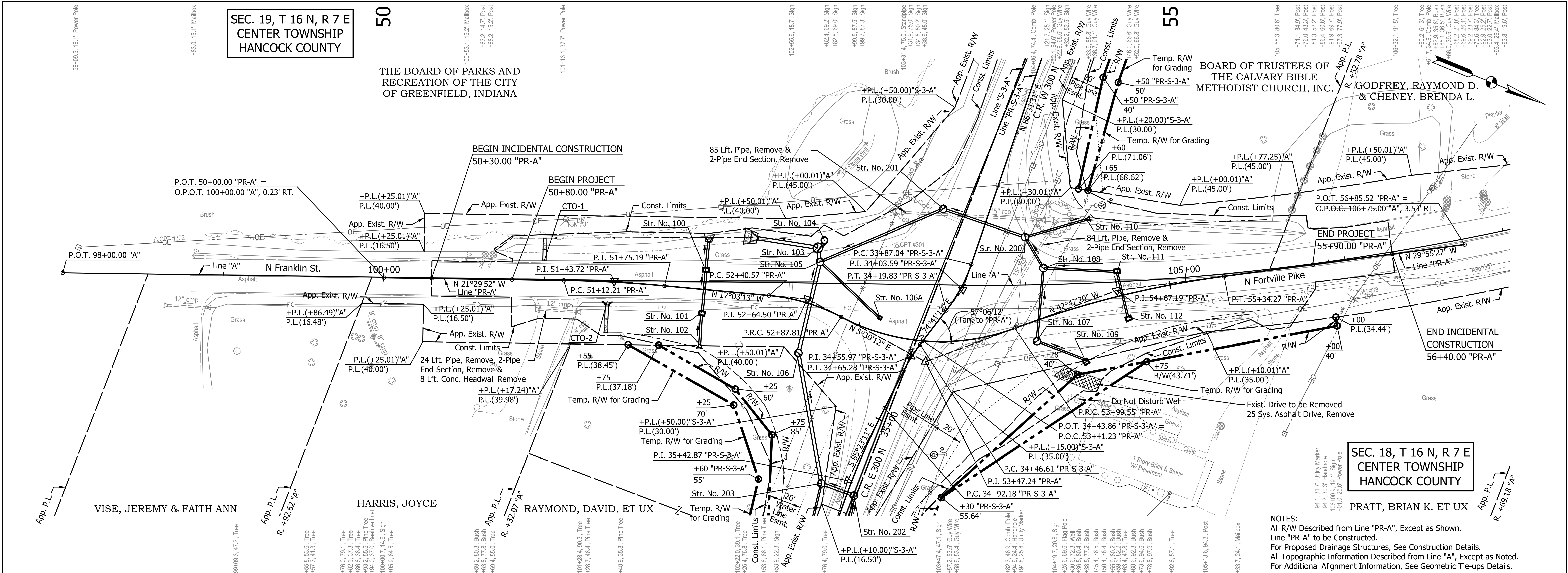
DATE	REVISION



RECOMMENDED FOR APPROVAL		6/07/2024	
DESIGN ENGINEER		DATE	
DESIGNED: _____	JLH	DRAWN: _____	RJC
CHECKED: _____	JAB	CHECKED: _____	JAB

CITY OF GREENFIELD
DETOUR PLAN
FORTVILLE PIKE & 300 N

HORIZONTAL SCALE	BRIDGE FILE
1" = 1500'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	10 of 56
CONTRACT	PROJECT
N/A	2205FFE



DATE	REVISION	INDIANA & BOSE REGISTERED No. 12100853 STATE OF INDIANA PROFESSIONAL ENGINEER RECOMMENDED FOR APPROVAL <i>Josh Bove</i> DESIGN ENGINEER 6/07/2024 DATE DESIGNED: ASV DRAWN: RJC CHECKED: JAB CHECKED: JAB		CITY OF GREENFIELD		HORIZONTAL SCALE	BRIDGE FILE
				PLAN AND PROFILE		1" = 30'	N/A
				LINE "PR-A"		VERTICAL SCALE	DESIGNATION
						1" = 10'	2205FFE
						SURVEY BOOK	SHEETS
						N/A	11 of 56
						CONTRACT	PROJECT
						N/A	2205FFE

THE BOARD OF PARKS AND
RECREATION OF THE CITY
OF GREENFIELD, INDIANA

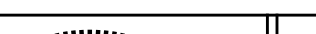
BOARD OF TRUSTEES OF
THE CALVARY BIBLE
METHODIST CHURCH, INC.

GODFREY, RAYMOND D.
& CHENEY, BRENDA L.



- | | | | |
|--|---|--|--|
| (C) PCCP For Approaches, 6 in., on Dense Graded Subbase 6 in., on Subgrade Treatment Type II | (K) Full Depth HMA Pavement (See Typical Sections) | (T) PCCP for Truck Apron (See Typical Sections) | (17) Concrete Roll Curb & Gutter, Modified I (See Miscellaneous Details) |
| (F) Sidewalk, Concrete, 4 in. | (R) 165 lbs/sys HMA Surface Type C, on Milling Asphalt, 1.5" | (13) Straight Concrete Curb, Modified (See Miscellaneous Details) | (18) Inverted Curb and Gutter (See Miscellaneous Details) |
| (O) 6" Compacted Aggregate, No. 53 | (R1) 165 lbs/sys HMA Surface Type C, on Variable Depth HMA Intermd., Type C, on Milling Asphalt, 1.5" | (15) Vertical Curb and Gutter (See Miscellaneous Details) | (L) See Landscaping Plans |
| | | (16) Concrete Roll Curb & Gutter, Inverted Modified II (See Miscellaneous Details) | |

NOTES:
All Station and Offsets Taken from Line "PR-A", Unless Noted.
All Radii are measured from Front Face of Curb, Except as Shown.
For Additional Alignment Information, See Geometric Tie-ups Details.

DATE	REVISION		RECOMMENDED FOR APPROVAL <u>Jordan A. Ross</u> 6/07/2024 DESIGN ENGINEER DATE		CITY OF GREENFIELD	HORIZONTAL SCALE		BRIDGE FILE		
						1"=20'	N/A			
						VERTICAL SCALE	DESIGNATION			
					N/A	2205FFE				
				DESIGNED: J.L.H.	DRAWN: R.J.C.	CONSTRUCTION DETAILS LINE "PR-A"	SURVEY BOOK		SHEETS	
				CHECKED: J.A.B.	CHECKED: J.A.B.		N/A	14	of	56
					CONTRACT		PROJECT			
						N/A	2205FFE			

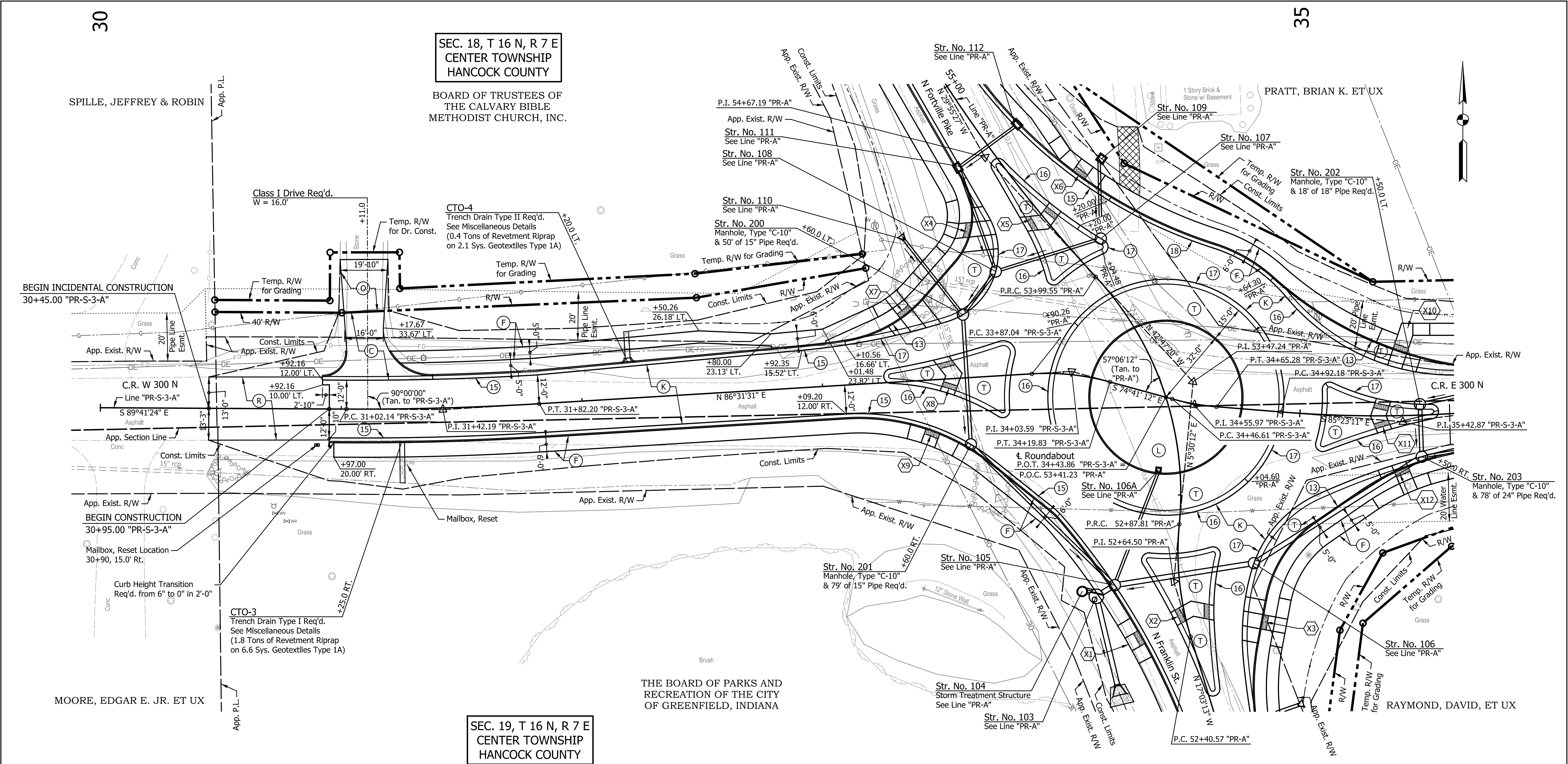
RECOMMENDED FOR APPROVAL	<i>Josh Dorc</i>	6/07/2024
DESIGN ENGINEER		DATE
DESIGNED: _____	JLH	DRAWN: _____
		RJC
CHECKED: _____	JAB	CHECKED: _____
		JAB

CITY OF GREENFIELD

CONSTRUCTION DETAIL

LINE "PR-A"

HORIZONTAL SCALE		BRIDGE FILE	
1"=20'		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		2205FFE	
SURVEY BOOK		SHEETS	
N/A	14	of	56
CONTRACT		PROJECT	
N/A		2205FFE	



LEGEND

- (C) PCCP For Approaches, 6 in., on Dense Graded Subbase 6 in., on Subgrade Treatment Type II
- (F) Sidewalk, Concrete, 4 in.
- (O) 6" Compacted Aggregate, No. 53
- (K) Full Depth HMA Pavement (See Typical Sections)
- (R) 165 lbs/sys HMA Surface Type C, on Milling Asphalt, 1.5"
- (R1) 165 lbs/sys HMA Surface Type C, on Variable Depth HMA Intermd., Type C, on Milling Asphalt, 1.5"
- (T) PCCP for Truck Apron (See Typical Sections)
- (13) Straight Concrete Curb, Modified (See Miscellaneous Details)
- (15) Vertical Curb and Gutter (See Miscellaneous Details)
- (16) Concrete Roll Curb & Gutter, Inverted Modified II (See Miscellaneous Details)
- (17) Concrete Roll Curb & Gutter, Modified I (See Miscellaneous Details)
- (18) Inverted Curb and Gutter (See Miscellaneous Details)
- (L) See Landscaping Plans

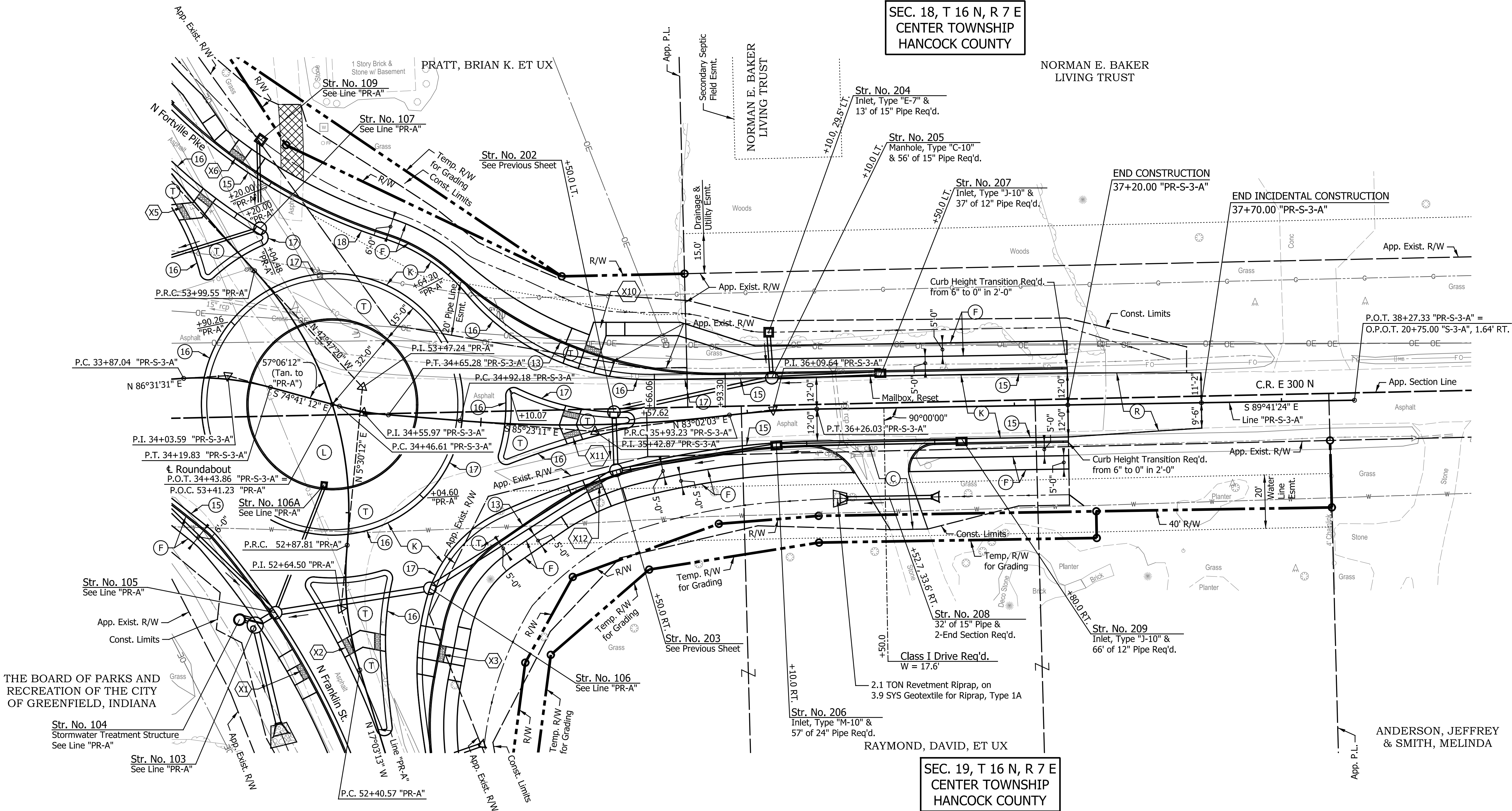
NOTES:
All Station and Offsets Taken from Line "PR-S-3-A", Unless Noted.
All Radii are measured from Front Face of Curb, Except as Shown.
For Additional Alignment Information, See Geometric Tie-ups Details.

DATE	REVISION					CITY OF GREENFIELD		HORIZONTAL SCALE	BRIDGE FILE
								1"=20'	N/A
								VERTICAL SCALE	DESIGNATION
								N/A	2205FFE
								SURVEY BOOK	SHEETS
								N/A	15 of 56
								CONTRACT	PROJECT
								N/A	2205FFE



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
6/07/2024
DATE
DESIGNED: JLH
DRAWN: RJC
CHECKED: JAB
CHECKED: JAB

CITY OF GREENFIELD
CONSTRUCTION DETAILS
LINE "PR-S-3-A"



LEGEND

- (C) PCCP For Approaches, 6 in., on Dense Graded Subbase 6 in., on Subgrade Treatment Type II
- (F) Sidewalk, Concrete, 4 in.
- (O) 6" Compacted Aggregate, No. 53
- (K) Full Depth HMA Pavement (See Typical Sections)
- (R) 165 lbs/sys HMA Surface Type C, on Milling Asphalt, 1.5"
- (R1) 165 lbs/sys HMA Surface Type C, on Variable Depth HMA Intermd., Type C, on Milling Asphalt, 1.5"
- (T) PCCP for Truck Apron (See Typical Sections)
- (13) Straight Concrete Curb, Modified (See Miscellaneous Details)
- (15) Vertical Curb and Gutter (See Miscellaneous Details)
- (16) Concrete Roll Curb & Gutter, Inverted Modified II (See Miscellaneous Details)
- (17) Concrete Roll Curb & Gutter, Modified I (See Miscellaneous Details)
- (18) Inverted Curb and Gutter (See Miscellaneous Details)
- (L) See Landscaping Plans

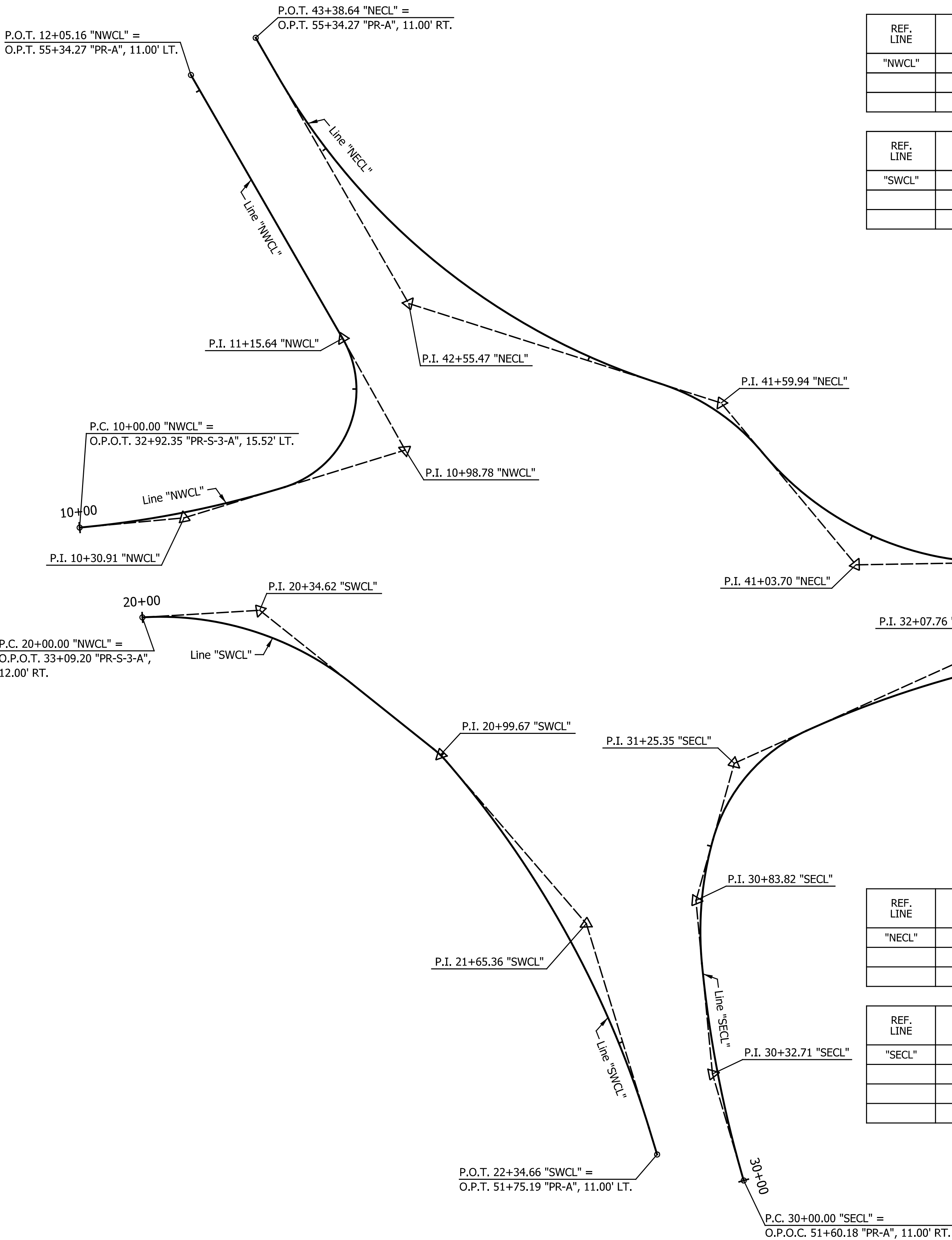
NOTES:
All Station and Offsets Taken from Line "PR-S-3-A", Unless Noted.
All Radii are measured from Front Face of Curb, Except as Shown.
For Additional Alignment Information, See Geometric Tie-ups Details.

DATE	REVISION		RECOMMENDED FOR APPROVAL  6/07/2024 DESIGN ENGINEER DATE		CITY OF GREENFIELD		HORIZONTAL SCALE		BRIDGE FILE	
							1"=20'		N/A	
							VERTICAL SCALE		DESIGNATION	
							N/A		2205FFE	
			DESIGNED: <u> JLH </u> DRAWN: <u> RJC </u> CHECKED: <u> JAB </u> CHECKED: <u> JAB </u>		CONSTRUCTION DETAILS LINE "PR-S-3-A"		SURVEY BOOK		SHEETS	
							N/A		16 of 56	
							CONTRACT		PROJECT	
							N/A		2205FFE	

CONSTRUCTION DETAILS
LINE "PR-S-3-A"

DESIGNED: JLH
CHECKED: JAB
DRAWN: RJC
CHECKED: JAB

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Indiana_Shae\caddg



REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT LENGTH	ARC LENGTH	CURVE RADIUS	EXTERNAL LENGTH	CURVE BEGIN STATION	CURVE END STATION	BEARING BACK	BEARING AHEAD
"NWCL"	10+30.91	183,035.9192	788,320.1448	11° 45' 59.47" LT	30.91'	61.61'	300.00'	1.59'	P.C. 10+00.00	P.C.C. 10+61.61	N 84° 41' 35.88" E	N 72° 55' 36.41" E
	10+98.78	183,055.9086	788,385.2297	102° 11' 20.00" LT	37.17'	53.51'	30.00'	17.77'	P.C.C. 10+61.61	P.C.C. 11+15.12	N 72° 55' 36.41" E	N 29° 15' 43.59" W
	11+15.64	183,088.7908	788,366.8057	00° 39' 43.38" LT	0.52'	1.04'	90.00'	0.00'	P.C.C. 11+15.12	P.T. 11+16.16	N 29° 15' 43.59" W	N 29° 55' 26.97" W

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT LENGTH	ARC LENGTH	CURVE RADIUS	EXTERNAL LENGTH	CURVE BEGIN STATION	CURVE END STATION	BEARING BACK	BEARING AHEAD
"SWCL"	20+34.62	183,008.7063	788,342.4010	42° 04' 33.51" RT	34.62'	66.09'	90.00'	6.43'	P.C. 20+00.00	P.T. 20+66.09	N 86° 31' 31.47" E	S 51° 23' 55.02" E
	20+99.67	182,966.1596	788,395.6956	10° 39' 36.74" RT	2.80'	5.58'	30.00'	0.13'	P.C. 20+96.87	P.C.C. 21+02.45	S 51° 23' 55.02" E	S 40° 44' 18.28" E
	21+65.36	182,916.3761	788,438.5743	23° 41' 04.98" RT	62.90'	124.01'	300.00'	6.52'	P.C.C. 21+02.45	P.T. 22+26.47	S 40° 44' 18.28" E	S 17° 03' 13.30" E

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT LENGTH	ARC LENGTH	CURVE RADIUS	EXTERNAL LENGTH	CURVE BEGIN STATION	CURVE END STATION	BEARING BACK	BEARING AHEAD
"NECL"	41+03.70	183,022.1015	788,517.9727	51° 08' 54.01" RT	43.07'	80.34'	90.00'	9.78'	P.C. 40+60.63	P.R.C. 41+40.97	S 89° 03' 27.44" W	N 39° 47' 38.55" W
	41+59.94	183,069.7687	788,478.2663	32° 32' 07.01" LT	18.97'	36.91'	65.00'	2.71'	P.R.C. 41+40.97	P.R.C. 41+77.88	N 39° 47' 38.55" W	N 72° 19' 45.56" W
	42+55.47	183,099.0768	788,386.2692	42° 24' 18.59" RT	77.59'	148.02'	200.00'	14.52'	P.R.C. 41+77.88	P.T. 43+25.90	N 72° 19' 45.56" W	N 29° 55' 26.97" W

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT LENGTH	ARC LENGTH	CURVE RADIUS	EXTERNAL LENGTH	CURVE BEGIN STATION	CURVE END STATION	BEARING BACK	BEARING AHEAD
"SECL"	30+32.71	182,872.1329	788,475.7337	10° 52' 26.66" RT	32.71'	65.23'	343.70'	1.55'	P.C. 30+00.00	P.C.C. 30+65.23	N 16° 19' 45.06" W	N 5° 27' 18.40" W
	30+83.82	182,923.2075	788,470.8562	21° 03' 59.57" RT	18.59'	36.77"	100.00'	1.71'	P.C.C. 30+65.23	P.C.C. 31+02.00	N 5° 27' 18.40" W	N 15° 36' 41.17" E
	31+25.35	182,963.6043	788,482.1438	50° 03' 55.37" RT	23.35'	43.69'	50.00'	5.18'	P.C.C. 31+02.00	P.C.C. 31+45.69	N 15° 36' 41.17" E	N 65° 40' 36.54" E
	32+07.76	182,998.7893	788,559.9860	23° 22' 50.90" RT	62.07'	122.42'	300.00'	6.35'	P.C.C. 31+45.69	P.T. 32+68.11	N 65° 40' 36.54" E	N 89° 03' 27.44" E

DATE	REVISION



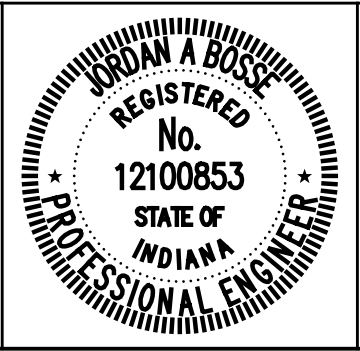
RECOMMENDED FOR APPROVAL	<i>Josh Bove</i>	6/07/2024
DESIGNED: JLH	DRAWN: RJC	DATE
CHECKED: JAB	CHECKED: JAB	

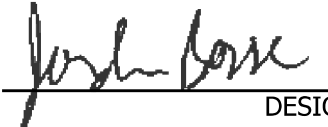
CITY OF GREENFIELD
ROUNDABOUT ALIGNMENT PLAN OUTSIDE EDGE OF PAVEMENT

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	17 of 56
CONTRACT	PROJECT
N/A	2205FFE

Info: Add alrto
Indiana_Shae2.tbl

DATE	REVISION



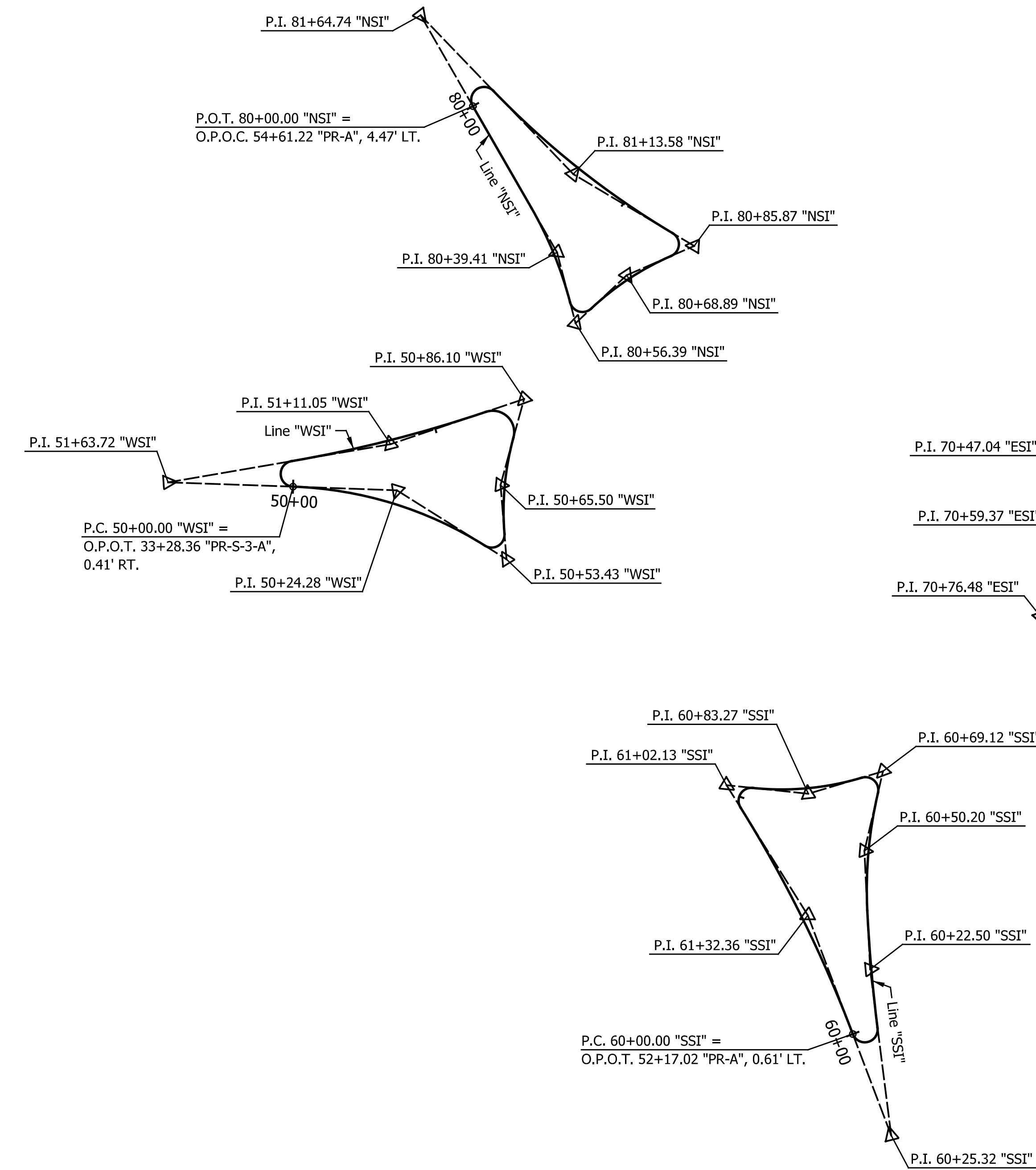
RECOMMENDED FOR APPROVAL		6/07/2024 DATE
DESIGNED: _____	JLH	DRAWN: _____
CHECKED: _____	JAB	CHECKED: _____

CITY OF GREENFIELD
ROUNDABOUT ALIGNMENT PLAN
SPITTER ISLAND

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	18 of 56
CONTRACT	PROJECT
N/A	2205FFE

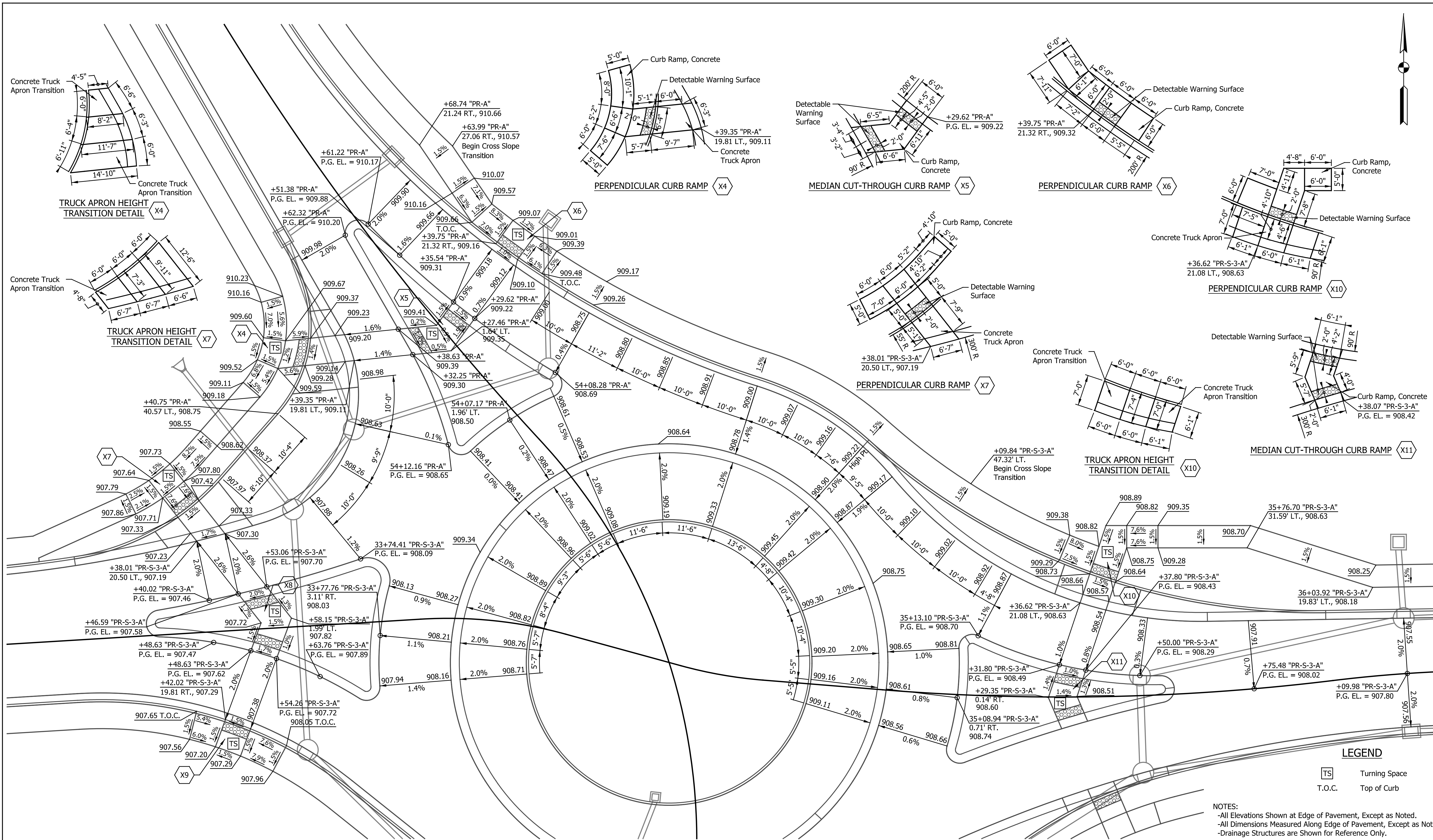
REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT LENGTH	ARC LENGTH	CURVE RADIUS	EXTERNAL LENGTH	CURVE BEGIN STATION	CURVE END STATION	BEARING BACK	BEARING AHEAD
"NSI"	80+39.41	183,074.0919	788,387.9582	15° 17' 21.53" RT	12.08'	24.02'	90.00'	0.81'	P.C. 80+27.33	P.R.C. 80+51.34	S 29° 55' 26.97" E	S 14° 38' 05.44" E
	80+56.39	183,057.5185	788,392.2860	118° 33' 59.38" LT	5.05'	6.21'	3.00'	2.87'	P.R.C. 80+51.34	P.R.C. 80+57.55	S 14° 38' 05.44" E	N 46° 47' 55.17" E
	80+68.89	183,068.7357	788,404.2306	19° 47' 13.41" RT	11.34'	22.45'	65.00'	0.98'	P.R.C. 80+57.55	P.R.C. 80+80.00	N 46° 47' 55.17" E	N 66° 35' 08.58" E
	80+85.87	183,075.5727	788,420.0191	125° 50' 50.36" LT	5.87'	6.59'	3.00'	3.59'	P.R.C. 80+80.00	P.R.C. 80+86.59	N 66° 35' 08.58" E	N 59° 15' 41.78" W
	81+13.58	183,092.3683	788,391.7751	15° 22' 20.83" RT	26.99'	53.66'	200.00'	1.81'	P.R.C. 80+86.59	P.R.C. 81+40.25	N 59° 15' 41.78" W	N 43° 53' 20.95" W
	81+64.74	183,129.4741	788,356.0809	166° 02' 06.02" LT	24.49'	8.69'	3.00'	21.68'	P.R.C. 81+40.25	P.T. 81+48.94	N 43° 53' 20.95" W	S 29° 55' 26.97" E

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT LENGTH	ARC LENGTH	CURVE RADIUS	EXTERNAL LENGTH	CURVE BEGIN STATION	CURVE END STATION	BEARING BACK	BEARING AHEAD
"WSI"	50+24.28	183,018.4943	788,350.5381	30° 11' 52.76" RT	24.28'	47.43'	90.00'	3.22'	P.C. 50+00.00	P.R.C. 50+47.43	S 88° 00' 25.45" E	S 57° 48' 32.69" E
	50+53.43	183,002.3647	788,376.1605	126° 49' 36.67" LT	5.99'	6.64'	3.00'	3.70'	P.R.C. 50+47.43	P.R.C. 50+54.08	S 57° 48' 32.69" E	N 4° 38' 09.36" W
	50+65.50	183,019.7293	788,374.7524	19° 56' 30.24" RT	11.43'	22.62'	65.00'	1.00'	P.R.C. 50+54.08	P.R.C. 50+76.70	N 4° 38' 09.36" W	N 15° 18' 20.87" E
	50+86.10	183,039.8208	788,380.2510	123° 59' 51.04" LT	9.40'	10.82'	5.00'	5.65'	P.R.C. 50+76.70	P.R.C. 50+87.52	N 15° 18' 20.87" E	S 71° 18' 29.83" W
	51+11.05	183,029.2674	788,349.0575	08° 58' 06.13" RT	23.53'	46.96'	300.00'	0.92'	P.R.C. 50+87.52	P.R.C. 51+34.48	S 71° 18' 29.83" W	S 80° 16' 35.96" W
	51+63.72	183,020.3556	788,297.0490	168° 17' 01.42" LT	29.24'	8.81'	3.00'	26.39'	P.R.C. 51+34.48	P.T. 51+43.29	S 80° 16' 35.96" W	S 88° 00' 25.45" E



REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT LENGTH	ARC LENGTH	CURVE RADIUS	EXTERNAL LENGTH	CURVE BEGIN STATION	CURVE END STATION	BEARING BACK	BEARING AHEAD
"SSI"	60+25.32	182,867.7597	788,466.0449	166° 29' 05.81" LT	25.32'	8.72'	3.00'	22.50'	P.C. 60+00.00	P.R.C. 60+08.72	S 20° 43' 16.60" E	N 7° 12' 22.41" W
	60+22.50	182,906.5555	788,461.1396	04° 27' 06.10" RT	13.79'	27.56'	354.70'	0.27'	P.R.C. 60+08.72	P.C.C. 60+36.28	N 7° 12' 22.41" W	N 2° 45' 16.31" W
	60+50.20	182,934.2322	788,459.8080	15° 51' 07.22" RT	13.92'	27.67'	100.00'	0.96'	P.C.C. 60+36.28	P.R.C. 60+63.94	N 2° 45' 16.31" W	N 13° 05' 50.91" E
	60+69.12	182,952.8361	788,464.1364	119° 49' 48.42" LT	5.18'	6.27'	3.00'	2.98'	P.R.C. 60+63.94	P.R.C. 60+70.22	N 13° 05' 50.91" E	S 73° 16' 02.49" W
	60+83.27	182,947.5879	788,446.6791	22° 42' 20.96" RT	13.05'	25.76'	65.00'	1.30'	P.R.C. 60+70.22	P.R.C. 60+95.98	S 73° 16' 02.49" W	N 84° 01' 36.55" W
	61+02.13	182,949.5860	788,427.5822	127° 59' 46.17" LT	6.15'	6.70'	3.00'	3.84'	P.R.C. 60+95.98	P.R.C. 61+02.68	N 84° 01' 36.55" W	S 32° 01' 22.71" E
	61+32.36	182,919.2042	788,446.5838	11° 18' 06.12" RT	29.68'	59.18'	300.00'	1.46'	P.R.C. 61+02.68	P.T. 61+61.85	S 32° 01' 22.71" E	S 20° 43' 16.60" E

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT LENGTH	ARC LENGTH	CURVE RADIUS	EXTERNAL LENGTH	CURVE BEGIN STATION	CURVE END STATION	BEARING BACK	BEARING AHEAD
"ESI"	70+21.39	183,010.2803	788,528.9450	26° 44' 03.77" RT	21.39'	41.99'	90.00'	2.51'	P.C. 70+00.00	P.R.C. 70+41.99	S 89° 03' 27.44" W	N 64° 12' 28.78" W
	70+47.04	183,021.7827	788,505.1427	118° 33' 59.38" LT	5.05'	6.21'	3.00'	2.87'	P.R.C. 70+41.99	P.R.C. 70+48.20	N 64° 12' 28.78" W	S 2° 46' 28.17" E
	70+59.37	183,005.5832	788,505.9278	19° 30' 01.39" RT	11.17'	22.12'	65.00'	0.95'	P.R.C. 70+48.20	P.R.C. 70+70.32	S 2° 46' 28.17" E	S 16° 43' 33.22" W
	70+76.48	182,988.9963	788,500.9433	127° 59' 46.17" LT	6.15'	6.70'	3.00'	3.84'	P.R.C. 70+70.32	P.R.C. 70+77.03	S 16° 43' 33.22" W	N 68° 43' 47.06" E
	71+00.39	182,999.7034	788,528.4479	08° 54' 24.12" RT	23.36'	46.64'	300.00'	0.91'	P.R.C. 70+77.03	P.R.C. 71+23.66	N 68° 43' 47.06" E	N 77° 38' 11.17" E
	71+53.66	183,011.1296	788,580.5750	168° 34' 43.73" LT	30.00'	8.83'	3.00'	27.15'	P.R.C. 71+23.66	P.T. 71+32.49	N 77° 38' 11.17" E	S 89° 03' 27.44" W



NOTES:
-All Elevations Shown at Edge of Pavement, Except as Noted.
-All Dimensions Measured Along Edge of Pavement, Except as Noted.
-Drainage Structures are Shown for Reference Only.

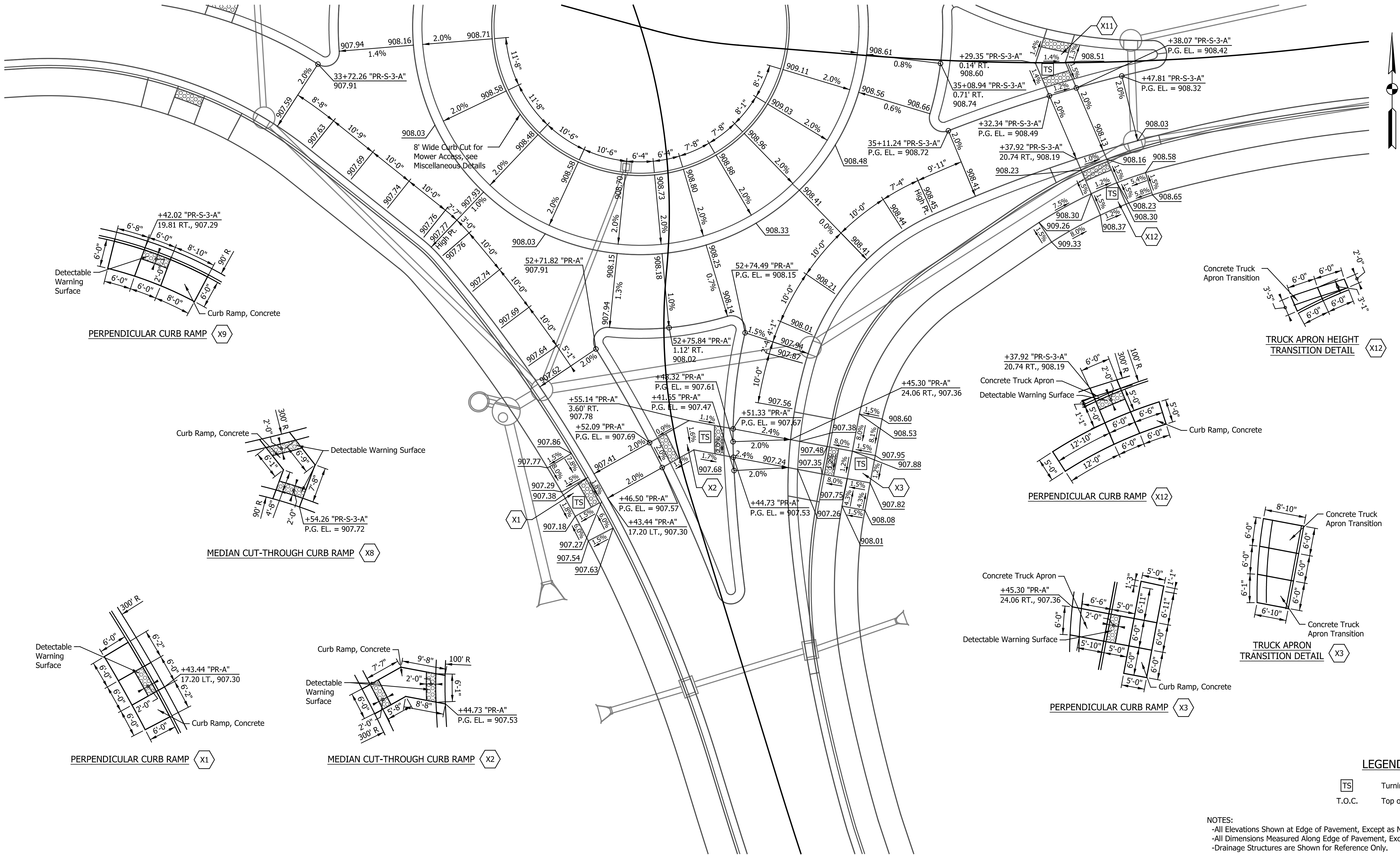
DATE	REVISION



RECOMMENDED FOR APPROVAL	<i>Josh Bove</i>	DESIGN ENGINEER	6/07/2024	DATE
DESIGNED:	JLH	DRAWN:	RJC	
CHECKED:	JAB	CHECKED:	JAB	

CITY OF GREENFIELD
SPOT ELEVATION DETAILS
FORTVILLE PIKE AND CR 300 N ROUNDABOUT

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	19 of 56
CONTRACT	PROJECT
N/A	2205FFE



LEGEND

- TS Turning Space
T.O.C. Top of Curb

NOTES:
-All Elevations Shown at Edge of Pavement, Except as Noted.
-All Dimensions Measured Along Edge of Pavement, Except as Noted.
-Drainage Structures are Shown for Reference Only.

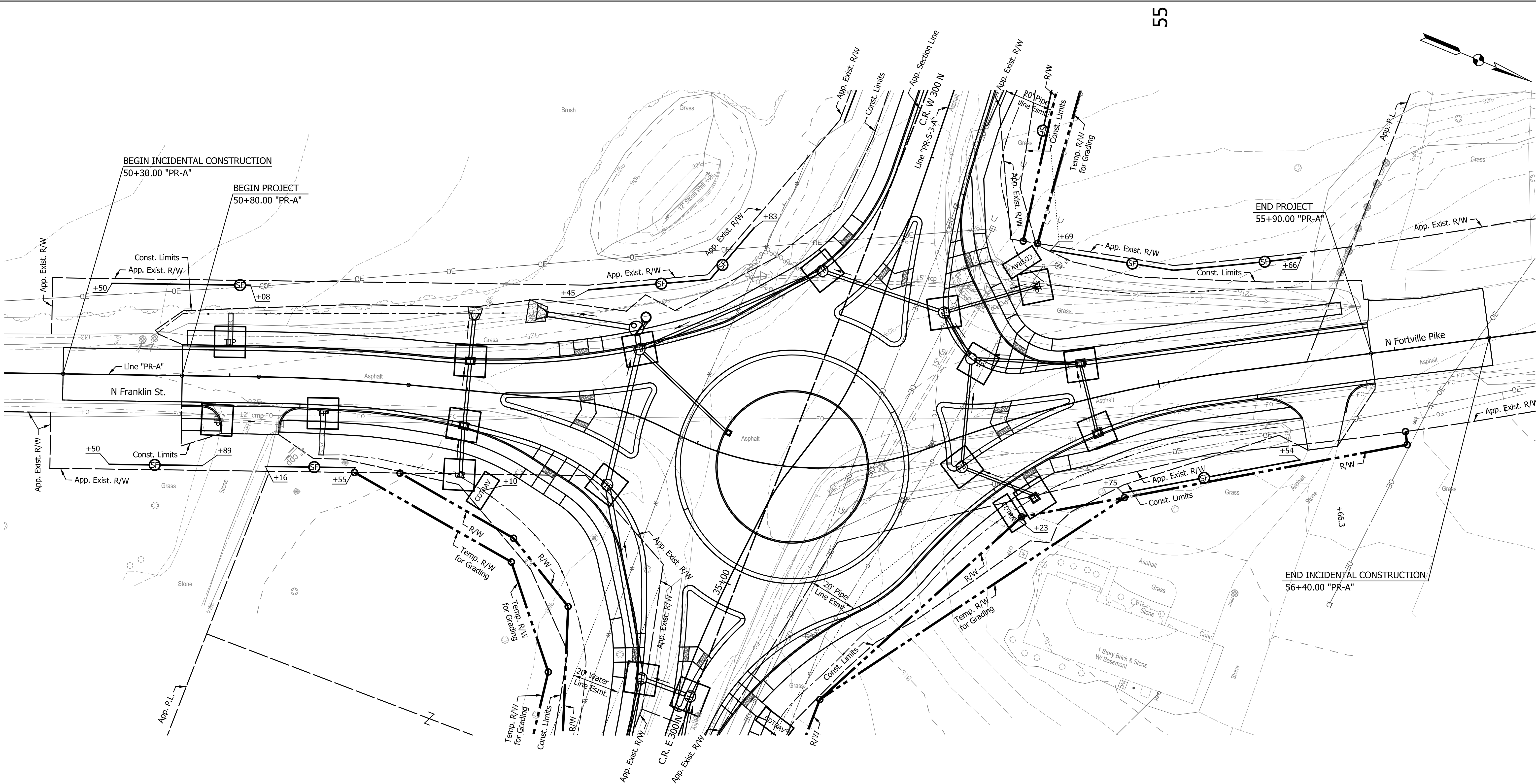
DATE	REVISION



RECOMMENDED FOR APPROVAL	<i>Josh Bove</i>	6/07/2024
DESIGNED:	JLH	DRAWN:
CHECKED:	JAB	CHECKED:

CITY OF GREENFIELD
SPOT ELEVATION DETAILS
N FRANKLIN ST AND CR 300 N ROUNDABOUT

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	20 of 56
CONTRACT	PROJECT
N/A	2205FFE



LEGEND

- TIP

Temporary Inlet Protection
- CDTRAV

Temporary Traversable Check Dam
- SF

Temporary Silt Fence

NOTES:
-All Areas Left Undisturbed for More Than 7 Days Shall be Temporarily Mulched and Temporarily Seeded, Unless Shown Otherwise, or as Directed by the Engineer. See the Special Provisions.
-All Existing and Proposed Inlets Along the Construction Area Shall be Protected by a Method Approved by 2024 INDOT Standards And Specifications.

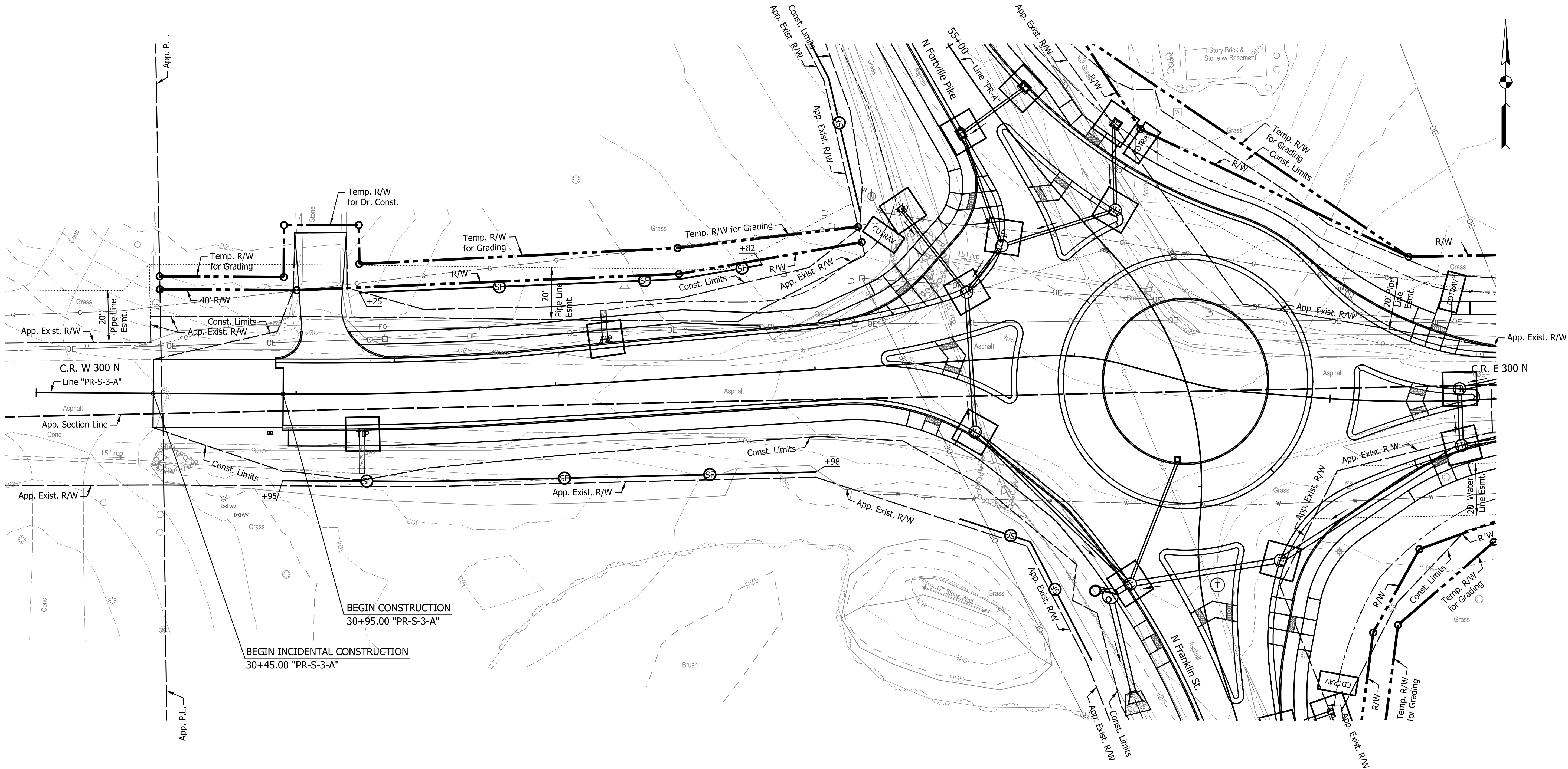
DATE	REVISION



RECOMMENDED FOR APPROVAL		6/07/2024	
DESIGN ENGINEER		DATE	
DESIGNED: _____	JLH	DRAWN: _____	RJC
CHECKED: _____	JAB	CHECKED: _____	JAB

CITY OF GREENFIELD
EROSION CONTROL DETAILS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	21 of 56
CONTRACT	PROJECT
N/A	2205FFE



LEGEND

- TIP

Temporary Inlet Protection
- CDTRAV

Temporary Traversable Check Dam
- SF

Temporary Silt Fence

NOTES:
-All Areas Left Undisturbed for More Than 7 Days Shall be Temporarily Mulched and Temporarily Seeded, Unless Shown Otherwise, or as Directed by the Engineer. See the Special Provisions.
-All Existing and Proposed Inlets Along the Construction Area Shall be Protected by a Method Approved by 2024 INDOT Standards And Specifications.

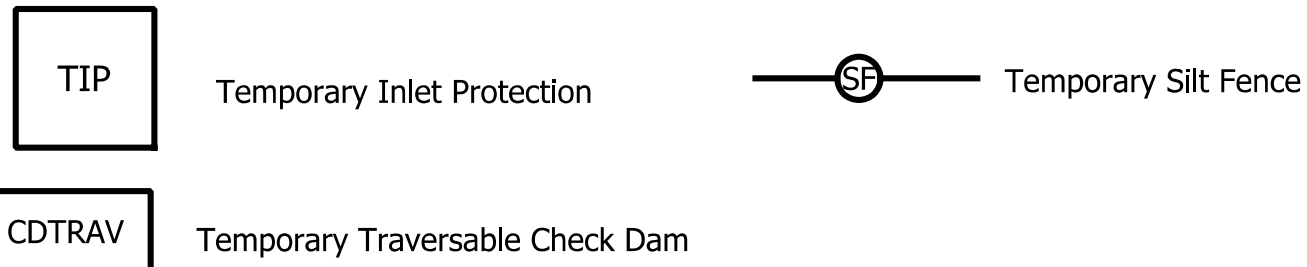
DATE	REVISION



RECOMMENDED FOR APPROVAL		6/07/2024	
DESIGN ENGINEER		DATE	
DESIGNED: _____	JLH	DRAWN: _____	RJC
CHECKED: _____	JAB	CHECKED: _____	JAB

CITY OF GREENFIELD
EROSION CONTROL DETAILS
LINE "PR-S-3-A"

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	22 of 56
CONTRACT	PROJECT
N/A	2205FFE



A circular professional engineer seal for the State of Indiana. The seal features a double-lined border. Between the lines, the text "JORDAN A. BOSSE" is arched across the top, and "PROFESSIONAL ENGINEER" is arched across the bottom. Two small stars separate the top and bottom text on the left and right sides. In the center of the seal, the word "REGISTERED" is at the top, followed by "No." and the number "12100853", and "STATE OF INDIANA" at the bottom.

CITY OF GREENFIELD

EROSION CONTROL DETAILS

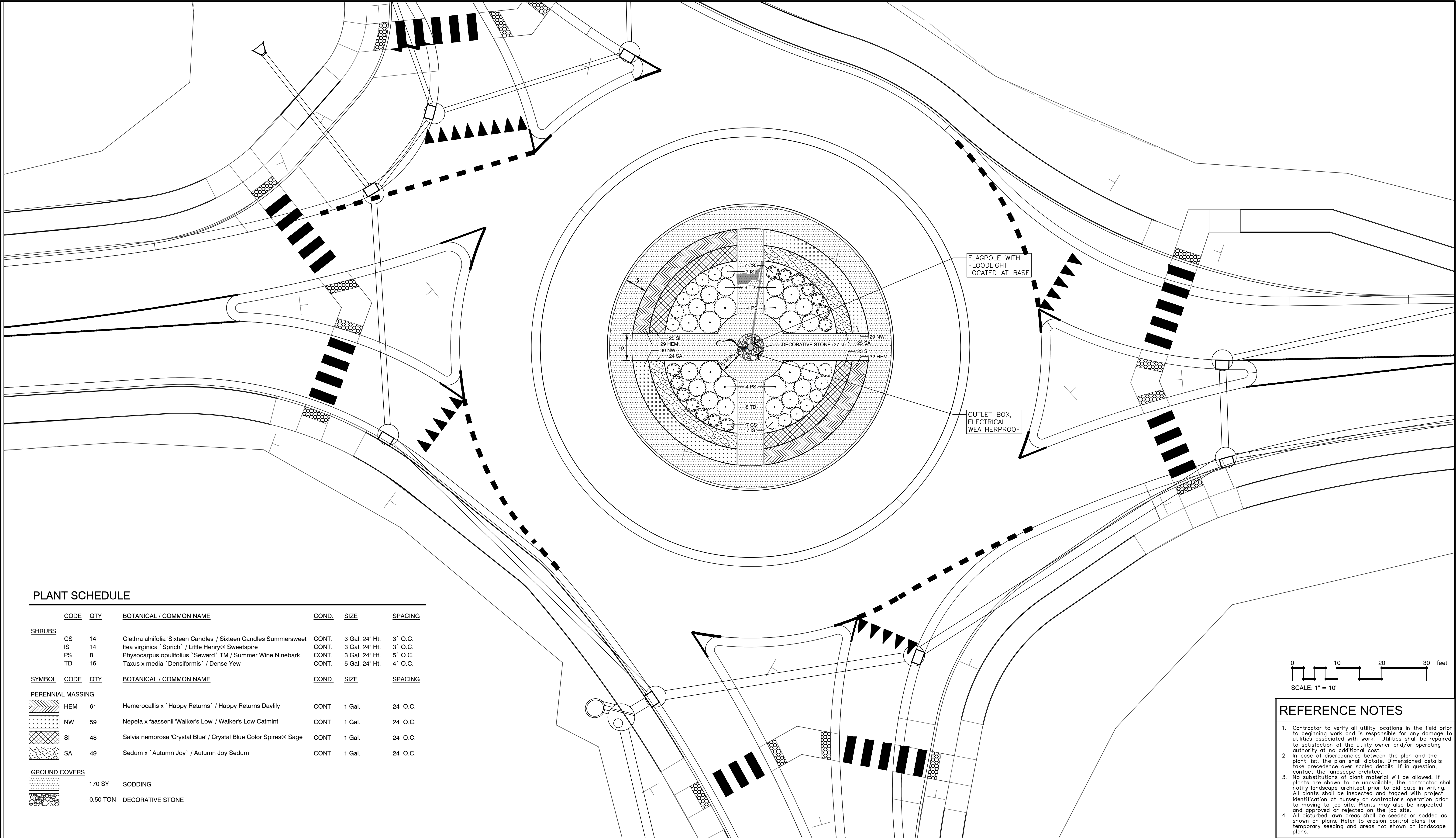
LINE "PR-S-3-A"

HORIZONTAL SCALE	BRIDGE FILE		
1"=20'	N/A		
VERTICAL SCALE	DESIGNATION		
N/A	2205FFE		
SURVEY BOOK	SHEETS		
N/A	23	of	56
CONTRACT	PROJECT		
N/A	2205FFE		

Info: 2024/06/06
Indiana_Shaale.tbl

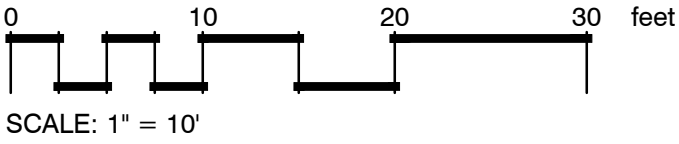
EROSION CONTROL TABLE													
FROM STATION	TO STATION	LOCATION			TEMP. SILT FENCE	TEMP. INLET PROTECTION	CHECK DAM - REVETMENT-RIPRAP	CHECK DAM - TRAVERSABLE	TEMP. SEED MIXTURE	TEMP. MULCH	NO. 2 STONE	TEMP. GEOTEXTILES	REMARKS
		LEFT	MEDIAN	RIGHT									
					LFT	EACH	EACH	LFT	LBS	TON	TON	SYS	
Line "PR-A"									107	1	100	235	
50+00	50+89			X	39								
50+00	51+08	X			58								
50+95				X		1							
51+00		X				1							
51+16	51+55			X	38								
51+40				X		1							
52+00		X				1							
52+00				X		2							
52+10				X				6					
52+45	52+83	X			80								
52+65		X				1							
52+70				X		1							
54+10				X		1							
54+24				X				6					
54+28		X				1							
54+36				X		1							
54+57		X						6					
54+60		X				1							
54+69	55+66	X			106								
54+70		X				1							
54+70				X		1							
54+75	55+54			X	76								
Line "PR-S-3-A"									89	1			
30+95	32+98			X	205								
31+25				X		1							
31+25	32+82	X			156								
32+25		X				1							
33+60		X				1							
33+60				X		1							
35+48		X						6					
35+50		X				1							
35+50				X		1							
36+10		X				2							
36+10				X		1							
36+15		X						6					
36+51		X				1							
36+71				X		1							
36+73	37+20			X	48								
36+80				X		1							
37+16		X						6					
Line "S-3-A"													
12+24				X		1							
18+83				X		1							
Total					806	28	0	36	196	2	100	235	

DATE	REVISION										JORDAN A BOSE REGISTERED No. 12100853 STATE OF INDIANA PROFESSIONAL ENGINEER	RECOMMENDED FOR APPROVAL: <u>Josh Bore</u> 6/07/2024 DESIGN ENGINEER DATE		CITY OF GREENFIELD		HORIZONTAL SCALE		BRIDGE FILE			
												NONE				N/A					
												VERTICAL SCALE		DESIGNATION							
												N/A		2205FFE							
												DESIGNED: JLH		DRAWN: RJC		EROSION CONTROL TABLE		SURVEY BOOK		SHEETS	
												CHECKED: JAB		CHECKED: JAB				N/A		24 of 56	
																CONTRACT		PROJECT			
																N/A		2205FFE			



PLANT SCHEDULE

	CODE	QTY	BOTANICAL / COMMON NAME	COND.	SIZE	SPACING
SHRUBS						
	CS	14	Clethra alnifolia 'Sixteen Candles' / Sixteen Candles Summersweet	CONT.	3 Gal. 24" Ht.	3' O.C.
	IS	14	Itea virginica 'Sprich' / Little Henry® Sweetspire	CONT.	3 Gal. 24" Ht.	3' O.C.
	PS	8	Physocarpus opulifolius 'Seward' TM / Summer Wine Ninebark	CONT.	3 Gal. 24" Ht.	5' O.C.
	TD	16	Taxus x media 'Densifolius' / Dense Yew	CONT.	5 Gal. 24" Ht.	4' O.C.
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	COND.	SIZE	SPACING
PERENNIAL MASSING						
	HEM	61	Heemerocallis x 'Happy Returns' / Happy Returns Daylily	CONT	1 Gal.	24" O.C.
	NW	59	Nepeta x faassenii 'Walker's Low' / Walker's Low Catmint	CONT	1 Gal.	24" O.C.
	SI	48	Salvia nemorosa 'Crystal Blue' / Crystal Blue Color Spires® Sage	CONT	1 Gal.	24" O.C.
	SA	49	Sedum x 'Autumn Joy' / Autumn Joy Sedum	CONT	1 Gal.	24" O.C.
GROUND COVERS						
	170 SY	SODDING				
	0.50 TON	DECORATIVE STONE				



REFERENCE NOTES

- Contractor to verify all utility locations in the field prior to beginning work and is responsible for any damage to utilities associated with work. Utilities shall be repaired to satisfaction of the utility owner and/or operating authority at no additional cost.
- In case of discrepancies between the plan and the plant list, the plan shall dictate. Dimensioned details take precedence over scaled details. If in question, contact the landscape architect.
- No substitutions of plant material will be allowed. If plants are shown to be unavailable, the contractor shall notify landscape architect prior to bid date in writing. All plants shall be inspected and tagged with project identification at nursery or contractor's operation prior to moving to job site. Plants may also be inspected and approved or rejected on the job site.
- All disturbed lawn areas shall be seeded or sodded as shown on plans. Refer to erosion control plans for temporary seeding and areas not shown on landscape plans.

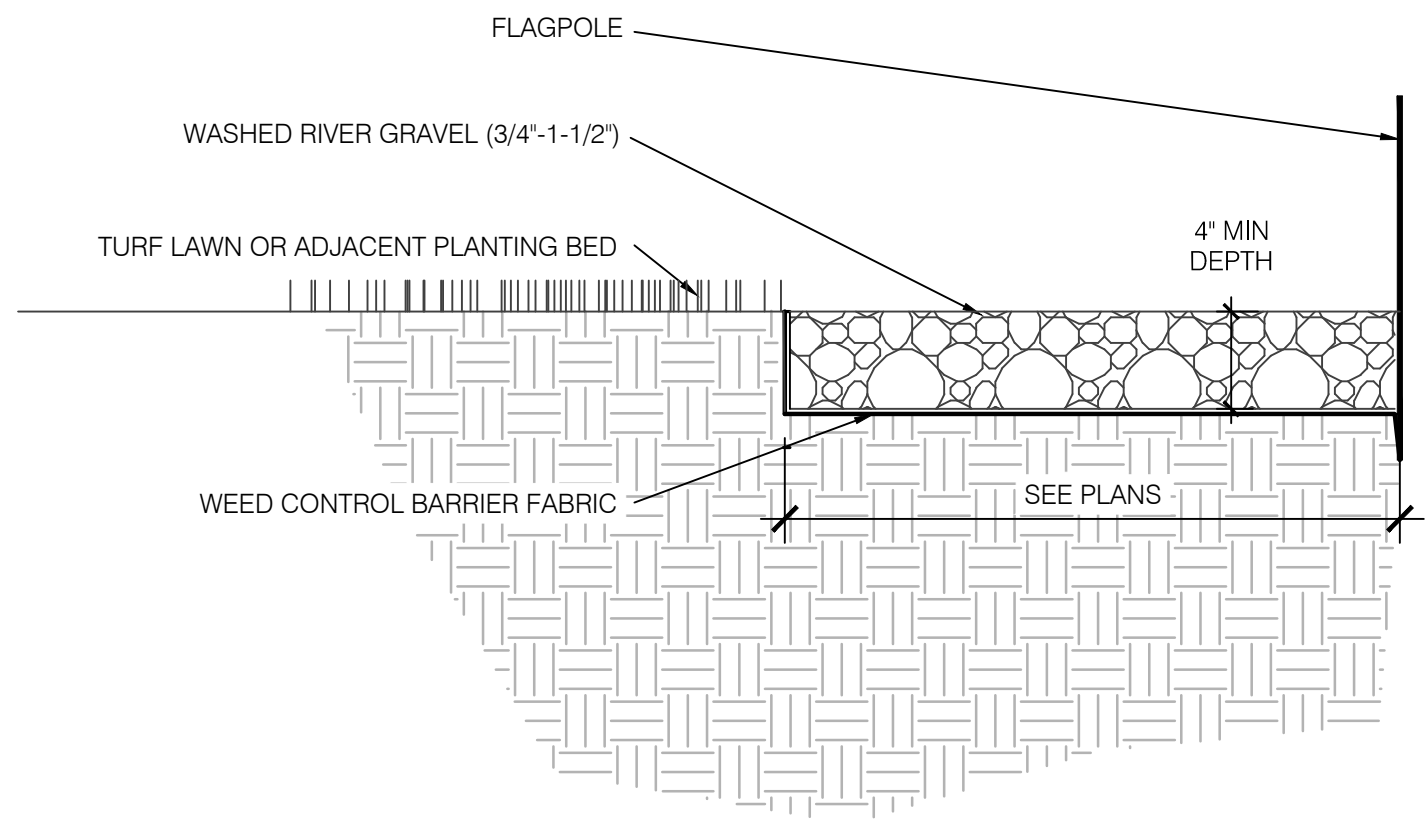
DATE	REVISION



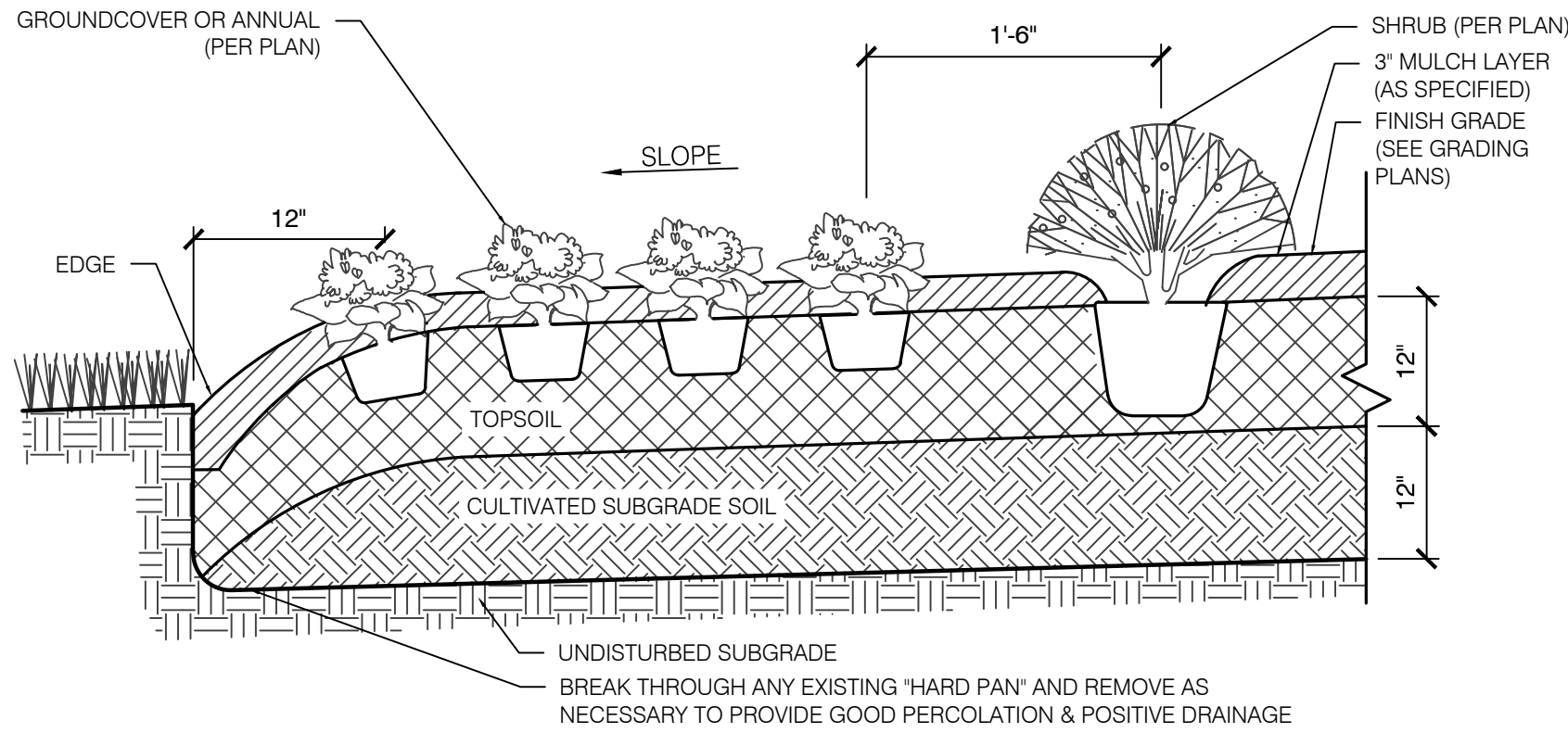
RECOMMENDED FOR APPROVAL		7/15/2024
	LANDSCAPE ARCHITECT	DATE
DESIGNED: _____	KH	DRAWN: _____
CHECKED: _____	LK	CHECKED: _____

CITY OF GREENFIELD
LANDSCAPE PLANS

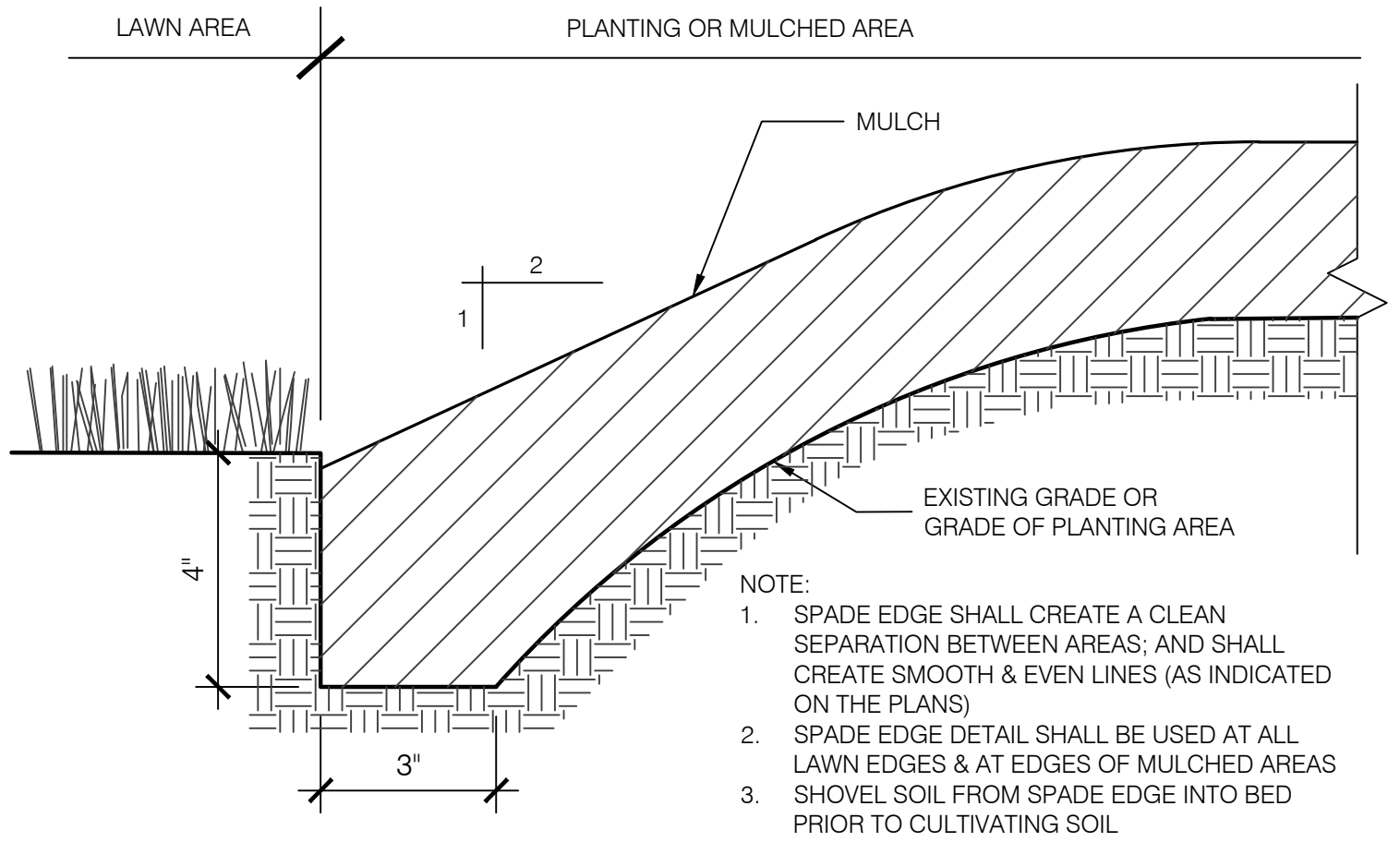
HORIZONTAL SCALE	BRIDGE FILE
SEE SCALE BAR	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	25 of 56
CONTRACT	PROJECT
N/A	2205FFE



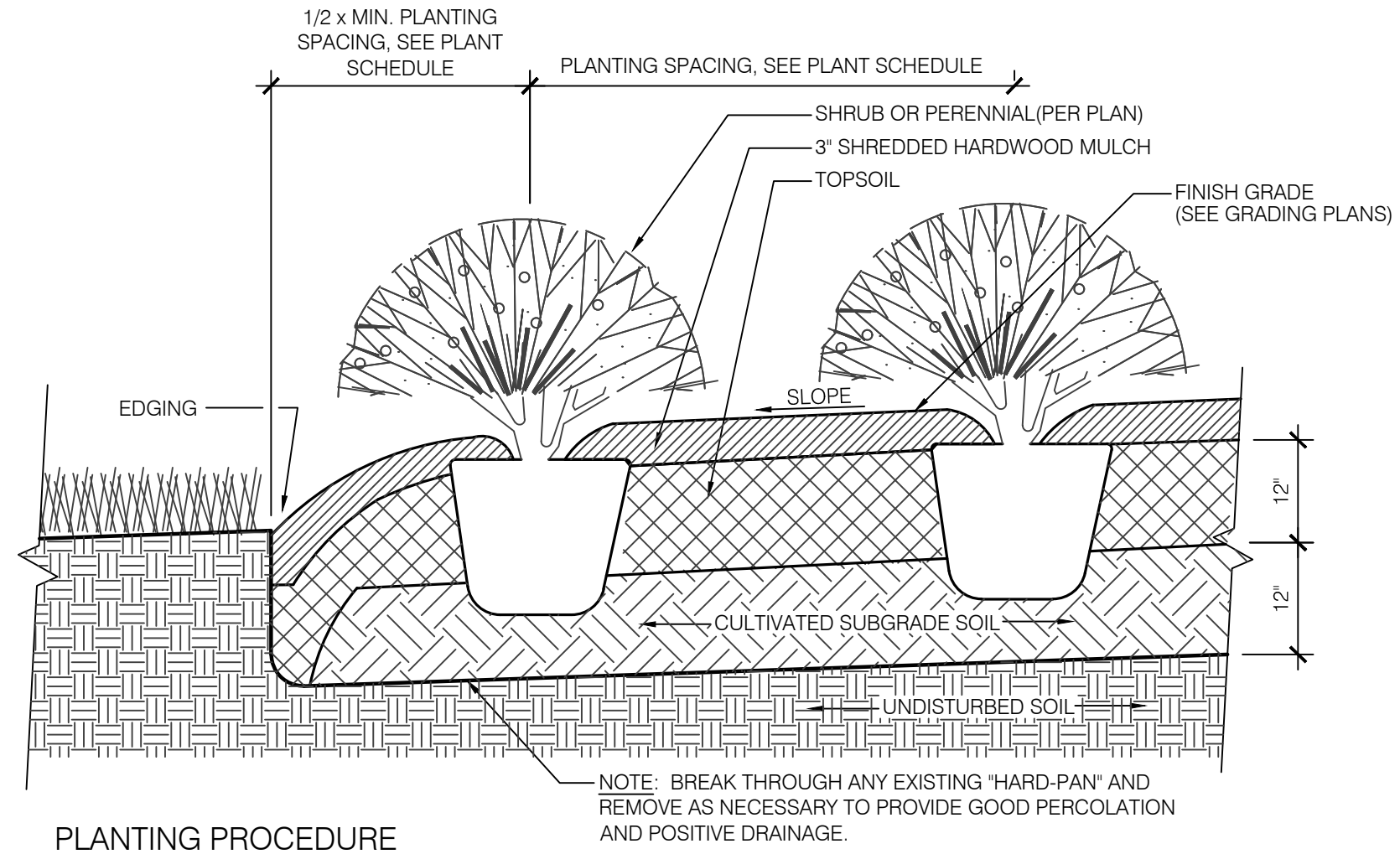
01 MAINTENANCE ROCK BED
NTS



02 GROUNDCOVER AND ANNUAL PLANTING
NTS



03 EDGE - SPADE
NTS

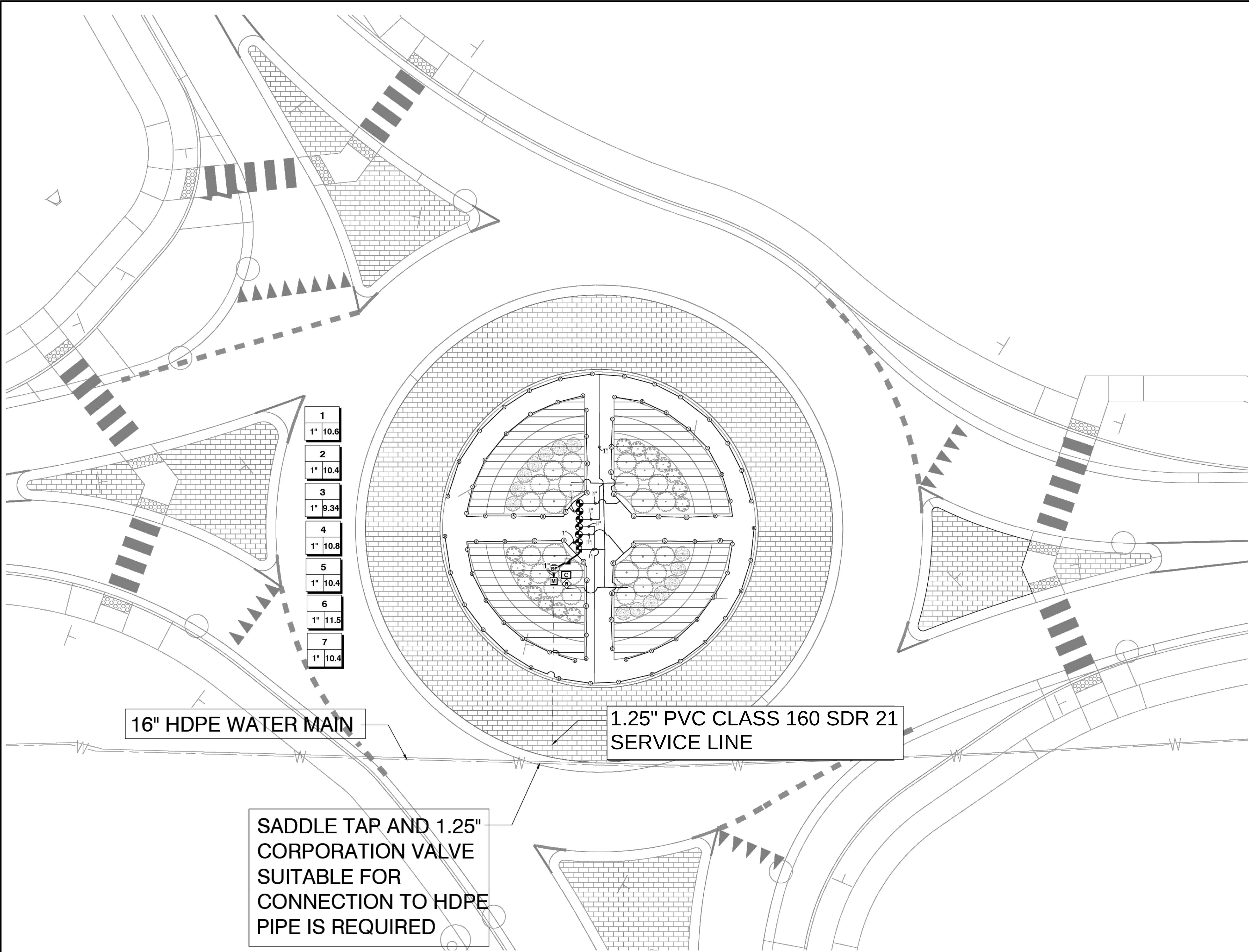


PLANTING PROCEDURE

1. LAYOUT BED AND OUTLINE EDGE.
2. PREPARE PLANTING SOIL PER SPECIFICATIONS.
3. INSTALL PLANTS, MULCH AND WATER THOROUGHLY. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.

04 SHRUB AND PERENNIAL PLANTING
NTS

DATE	REVISION	LUKE A. KESSLER REGISTERED No. LA21600017 STATE OF INDIANA LANDSCAPE ARCHITECT RECOMMENDED FOR APPROVAL <i>Luke A. Kessler</i> LANDSCAPE ARCHITECT 7/15/2024 DATE	CITY OF GREENFIELD			HORIZONTAL SCALE	BRIDGE FILE	
						SEE SCALE BAR	N/A	
						VERTICAL SCALE	DESIGNATION	
				LANDSCAPE PLANS			N/A	2205FFE
				DESIGNED: KH	DRAWN: KH	SURVEY BOOK	SHEETS	
				CHECKED: LK	CHECKED: LK	N/A	26 of 56	
						CONTRACT	PROJECT	
						N/A	2205FFE	



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯	Hunter PROS-04-PRS40 adjustable arc	91
■	Hunter ICZ-101-40 1"	1
▨	Area to Receive Dripline Hunter HDL-09-18-PC	1,038 l.f.
⊙	Hunter PGV-100G 1"	6
▣	Hunter HQ-5RC 1"	1
⊞	Wilkins 975XL 1"	1
⊞	Hunter P2C-400	1
⊞	Hunter WR-CLIK	1
⊞	Water Meter 1"	1
—	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	636.9 l.f.
- - -	Irrigation Mainline: PVC Class 160 SDR 26 1"	55.3 l.f.
Valve Callout		
⊞	Valve Number	
⊞	Valve Flow	
⊞	Valve Size	

CRITICAL ANALYSIS

Generated: 2024-09-06

P.O.C. NUMBER: 01
Water Source Information:

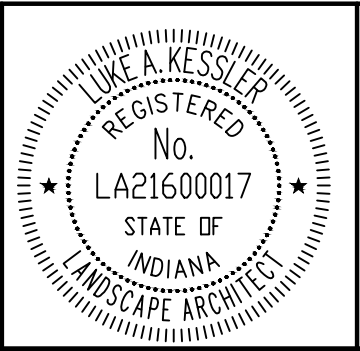
FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 29.42 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 70 PSI
Elevation Change: 5.00 ft
Service Line Size: 1 1/4"
Length of Service Line: 20 ft
Pressure Available: 67 PSI

DESIGN ANALYSIS
Maximum Station Flow: 11.52 GPM
Flow Available at POC: 29.42 GPM
Residual Flow Available: 17.9 GPM

Critical Station: 7
Design Pressure: 30 PSI
Friction Loss: 0.14 PSI
Fittings Loss: 0.01 PSI
Elevation Loss: 0 PSI
Loss through Valve: 8.23 PSI
Pressure Req. at Critical Station: 38.4 PSI
Loss for Fittings: 0 PSI
Loss for Main Line: 0.63 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 11.6 PSI
Loss for Water Meter: 0.74 PSI
Critical Station Pressure at POC: 51.4 PSI
Pressure Available: 67 PSI
Residual Pressure Available: 15.6 PSI

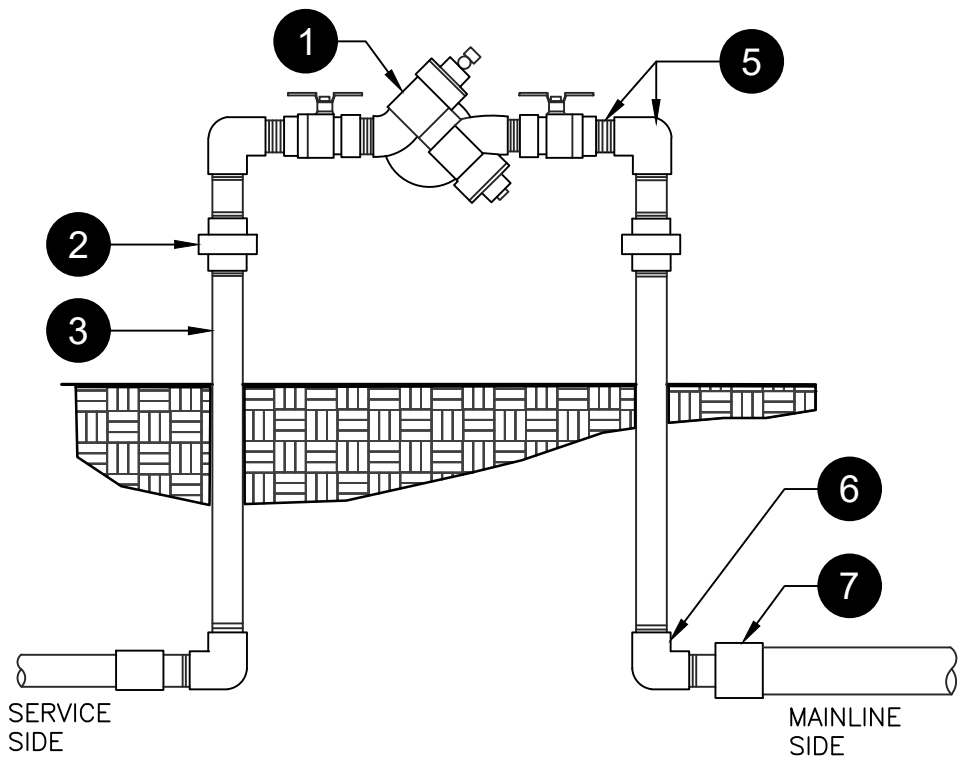
DATE	REVISION



RECOMMENDED FOR APPROVAL	<i>Luke A. Kessler</i>	7/15/2024
DESIGNED:	CN	DRAWN:
CHECKED:	LK	CHECKED:

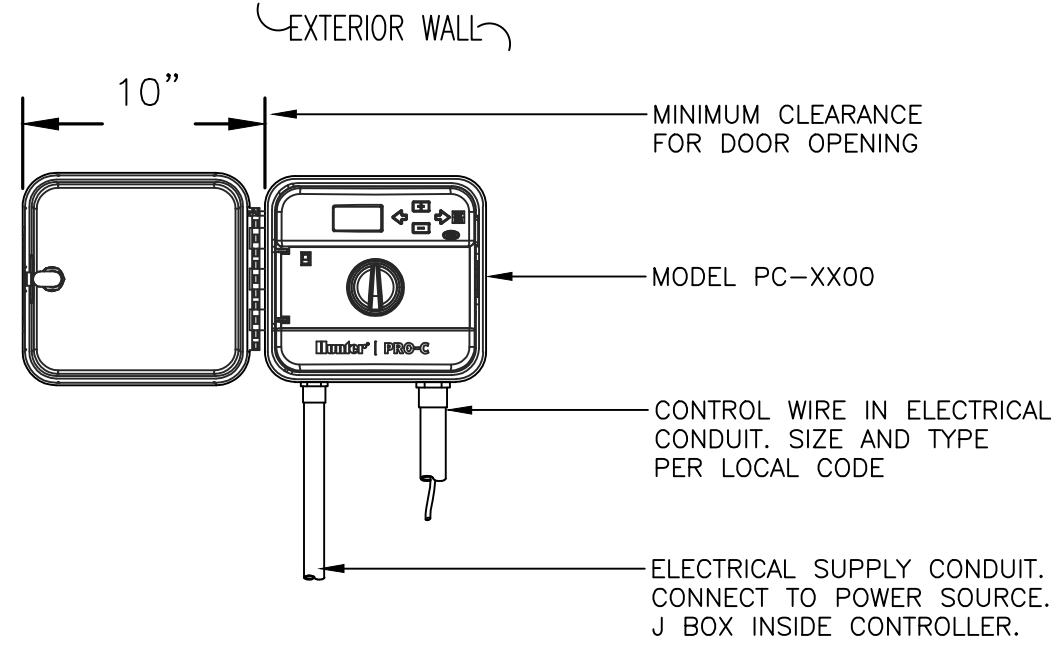
CITY OF GREENFIELD
IRRIGATION PLANS

HORIZONTAL SCALE	BRIDGE FILE
SEE SCALE BAR	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	27 of 56
CONTRACT	PROJECT
R-43589/A	2022.02696



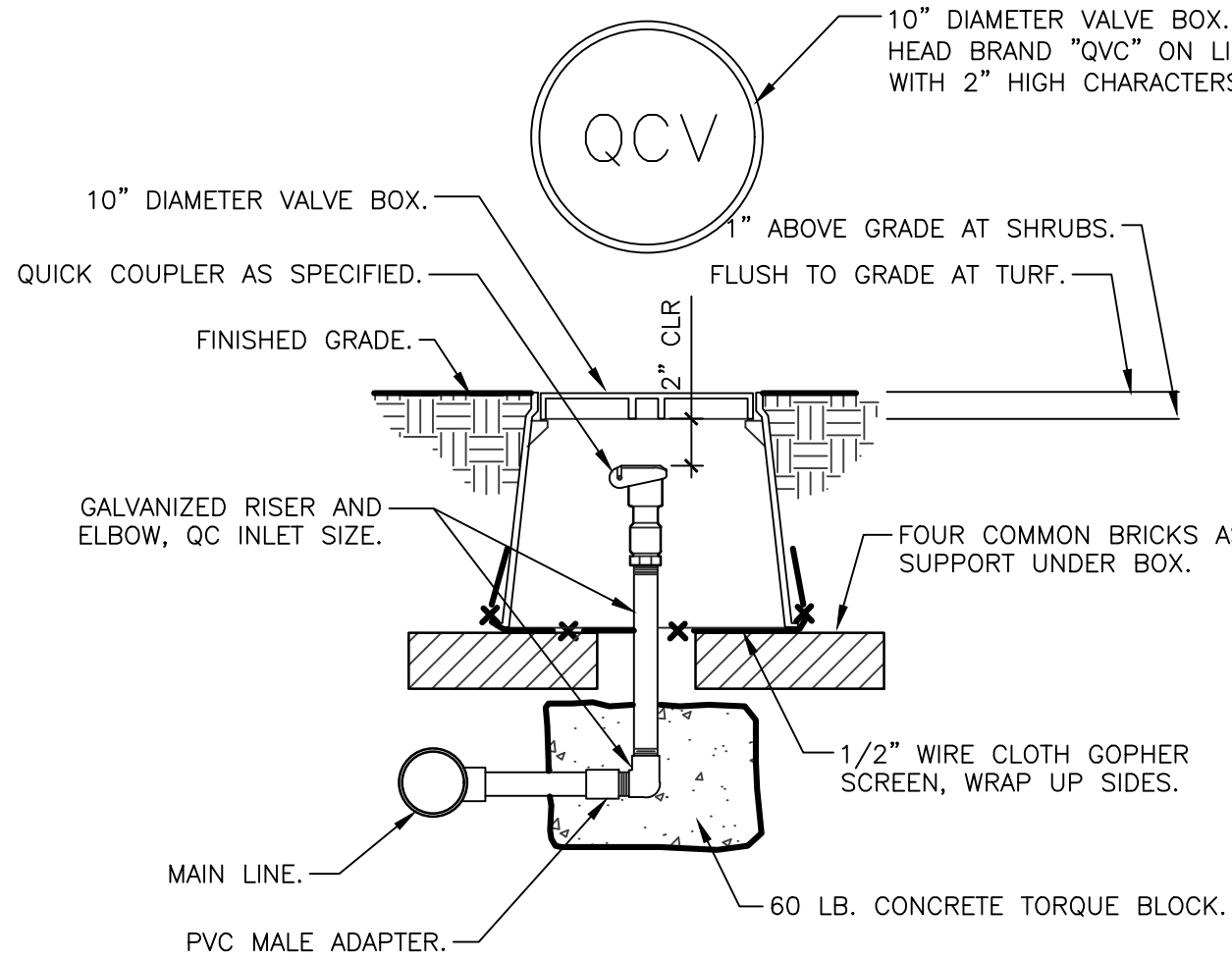
- 1 REDUCED PRESSURE BACKFLOW DEVICE AS SPECIFIED
- 2 BRASS UNIONS AT EACH SIDE
- 3 COPPER RISERS
- 4 CONCRETE THRUST BLOCKS, 90 LBS OF CONCRETE EACH
- 5 BRASS NIPPLES AND ELL AS REQUIRED
- 6 BRASS ELL AND NIPPLE, TYPICAL EACH SIDE
- 7 PVC COUPLER AND SCH. 80 TOE NIPPLE, TYPICAL EACH SIDE

1 REDUCED PRESSURE BACKFLOW DEVICE
1" = 1'-0" P-2-1-03

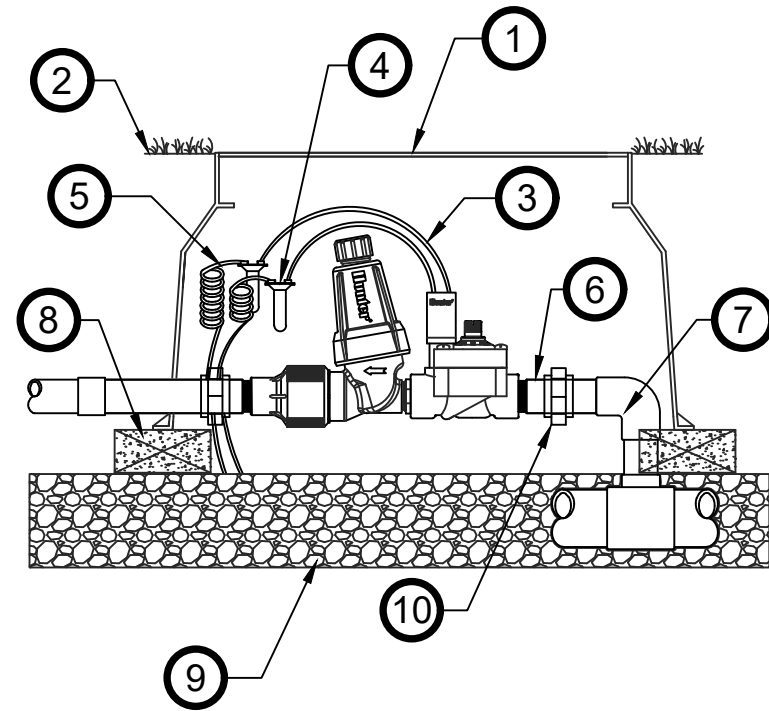


NOTE SPECIFY 4, 7, 10, 13, 16 STATION MODEL CONTROLLER. MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC SOURCE.

2 PRO-C CONTROLLER
1 1/2" = 1'-0" P-2-1-25

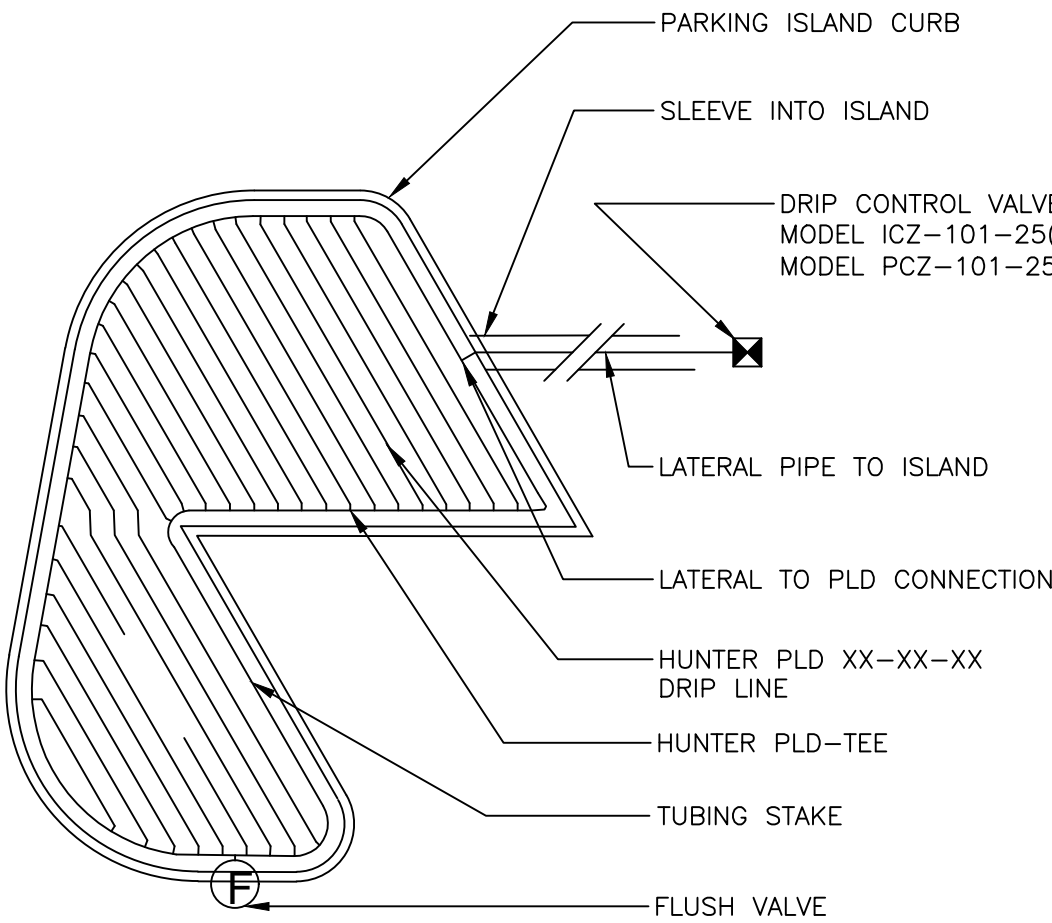


3 QUICK COUPLING VALVE IN BOX
1 1/2" = 1'-0" P-2-1-04

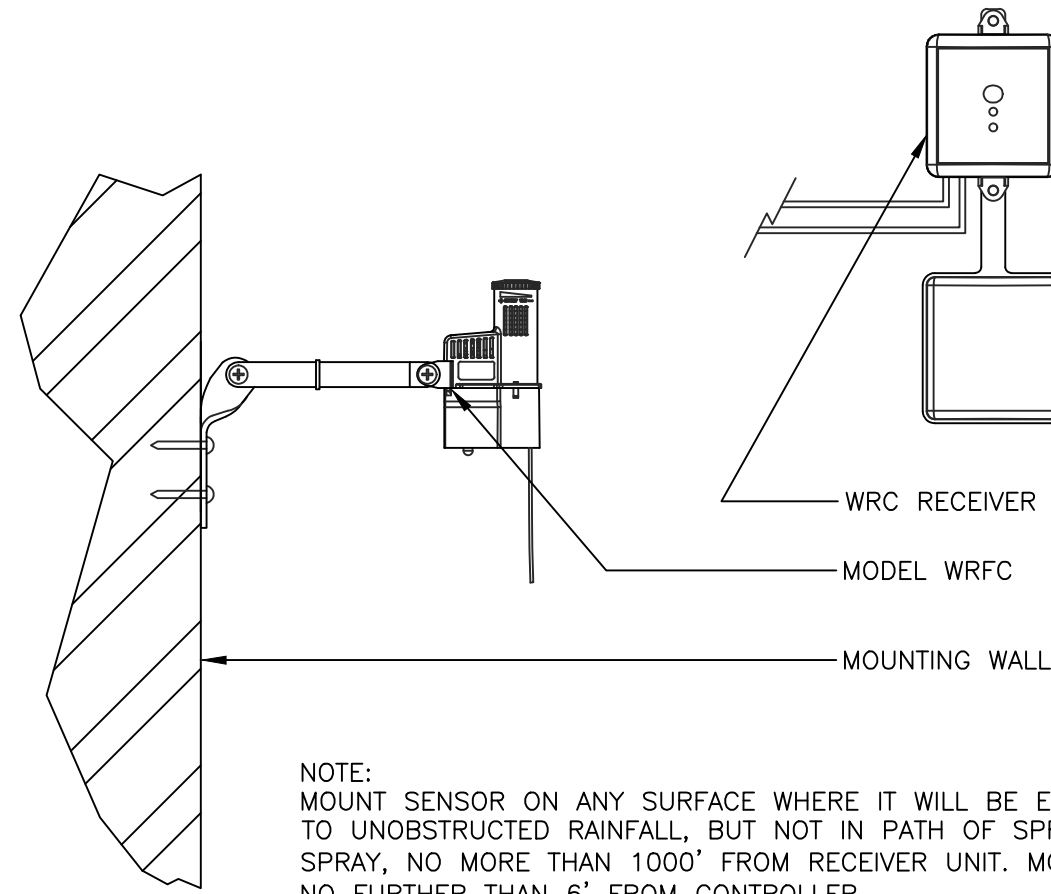


- 1 STANDARD VALVE BOX
- 2 FINISH GRADE
- 3 DRIP ZONE KIT: MODEL PCZ-101-1 FILTER, REGULATOR 25 OR 40 PSI
- 4 WATERPROOF CONNECTORS (2)
- 5 18-24" COILED WIRE
- 6 SCH 80 T.O.E. NIPPLE
- 7 MAIN LINE PIPE & FITTINGS
- 8 BRICK SUPPORTS (4)
- 9 3/4" MINUS WASHED GRAVEL
- 10 PVC SLIP UNIONS

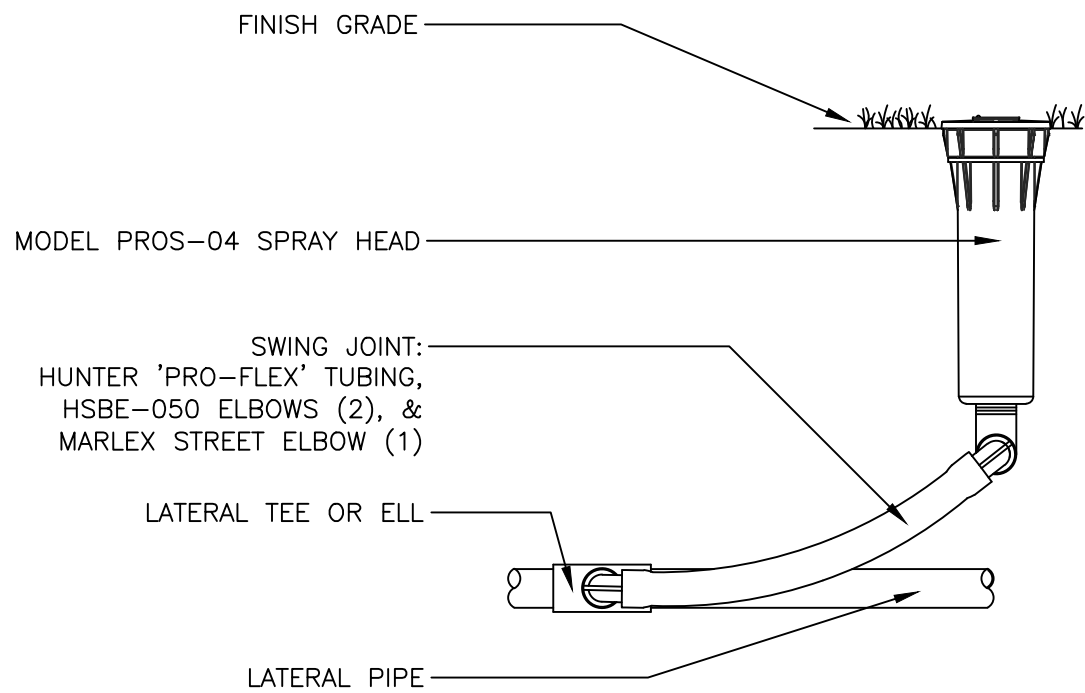
4 PCZ-101-1 DRIP ZONE KIT
1 1/2" = 1'-0" P-2-1-07



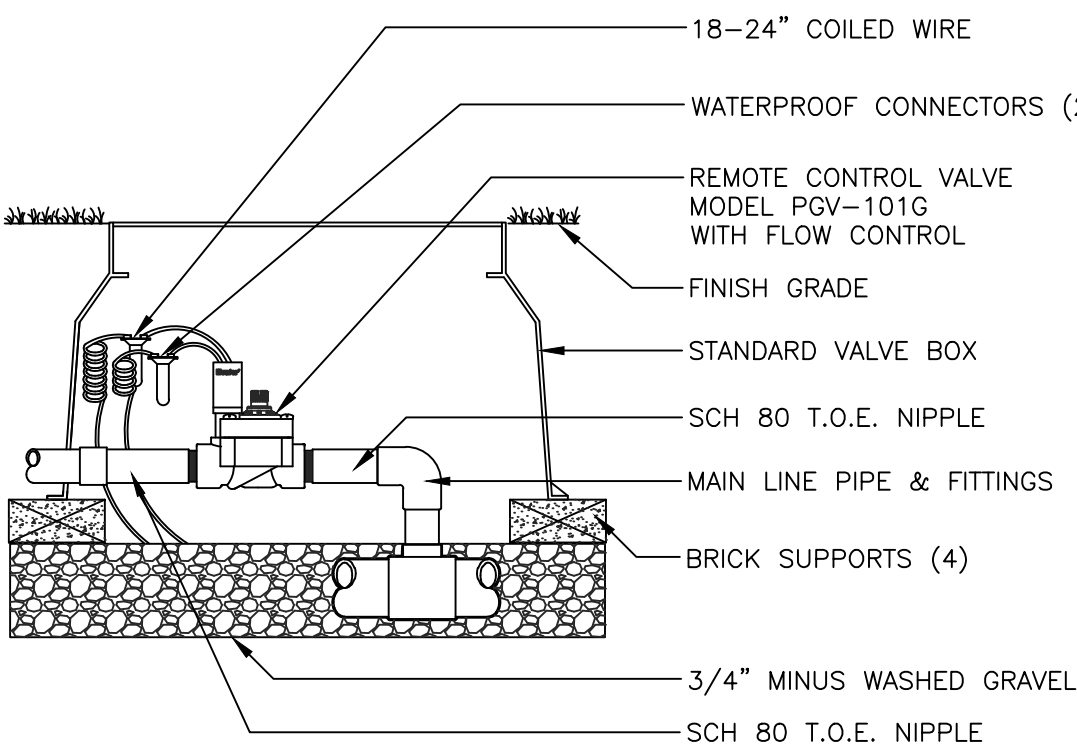
5 IRREGULAR ISLAND A
1" = 1'-0" P-2-1-19



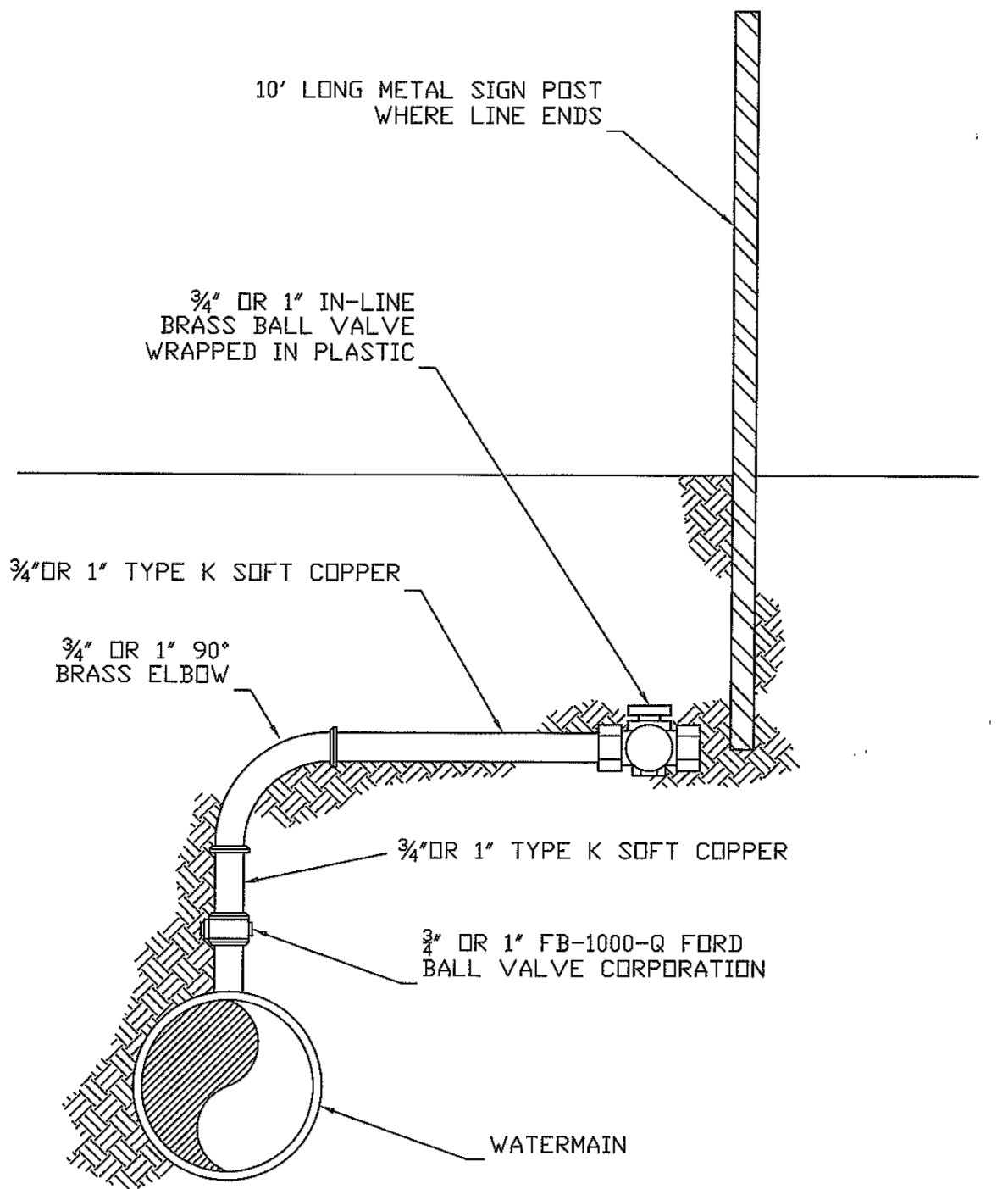
6 WIRELESS RAIN/FREEZE-CLIK
3" = 1'-0" P-2-1-18



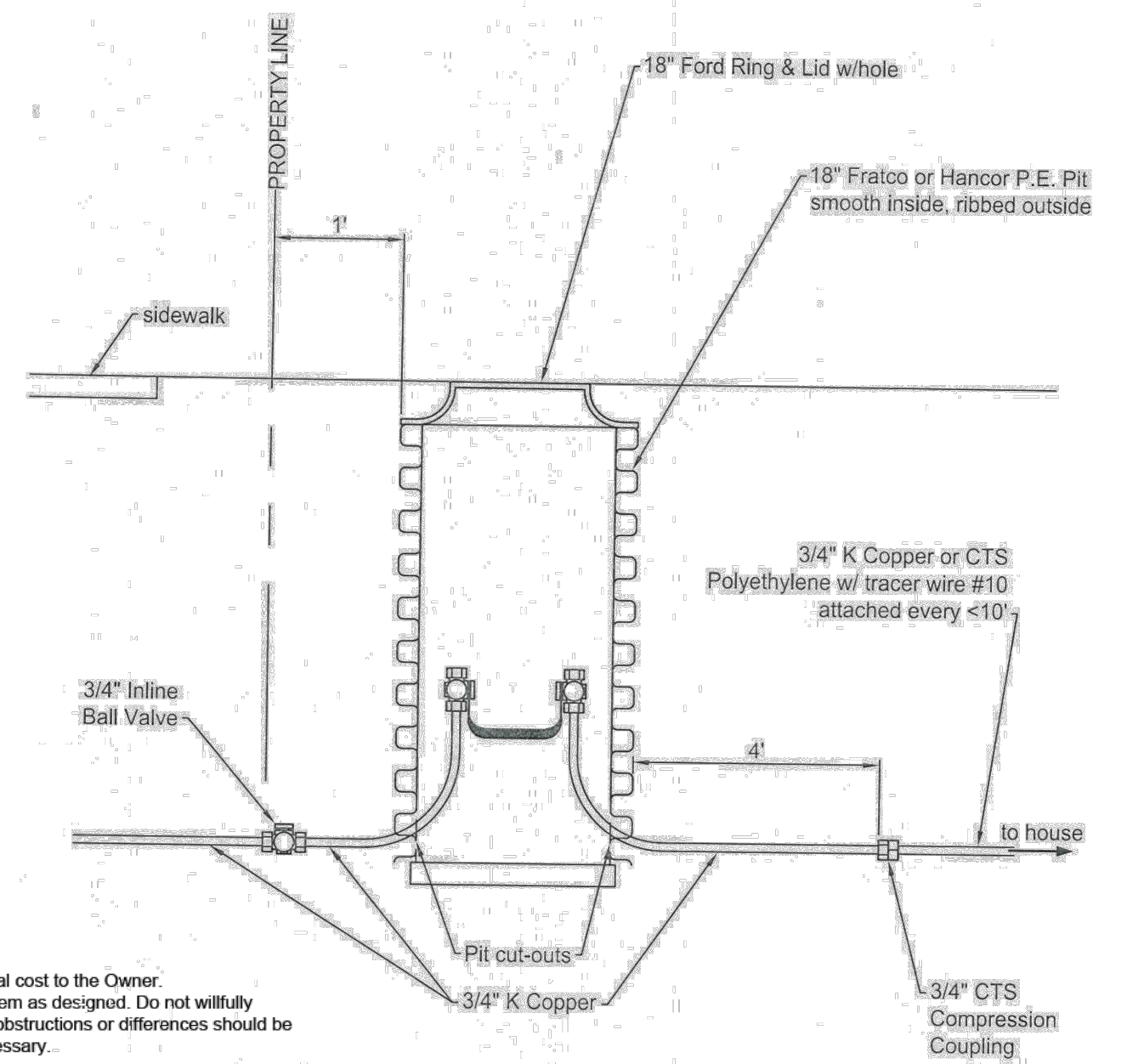
7 PROS-04 SPRAY HEAD WITH PRO-FLEX TUBING
3" = 1'-0" P-2-1-20



8 PGV GLOBE VALVE WITH FLOW CONTROL
1 1/2" = 1'-0" P-2-1-01



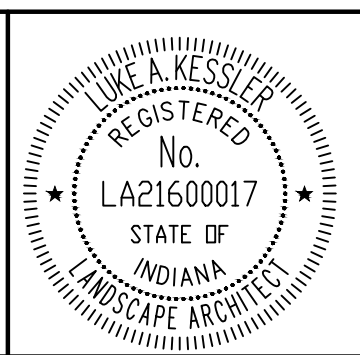
CITY OF GREENFIELD
STANDARD DETAIL
WATER LATERAL DETAIL
Dwn.By: D.Rodgers Origin Date: 5/22/03
Des. No: W-124-03 Rev. Date: 01/21/16



NOTES:
1. Pit Contains: 2 Ford Ball Angle Valves, 1 Ford Yoke Bar-Y
2. In-Line Ball Valve (Stub-out) shall be 1 foot behind Property Line and marked by Steel Sign Post.
3. Bedding and Backfill shall be Sand.

CITY OF GREENFIELD
STANDARD DETAIL
3/4" Meter Pit
Dwn.By: D.Rodgers Origin Date: 11/05/2012
Des. No: W-140-1 Rev. Date: 1/21/2016

DATE	REVISION



RECOMMENDED FOR APPROVAL		7/15/2024
LANDSCAPE ARCHITECT		DATE
DESIGNED: _____ CN	DRAWN: _____ CN	
CHECKED: _____ LK	CHECKED: _____ LK	

CITY OF GREENFIELD
IRRIGATION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
SEE SCALE BAR	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	28 of 56
CONTRACT	PROJECT
R-43589/A	2022.02696



LIGHT POLE SCHEDULE								
LUMINAIRE NO.	BRANCH CIRCUIT A-1	A1-1	A1-2	A1-3	A1-4	A1-5	A1-6	A1-7
LUMINAIRE TYPE		LED - 122W	LED - 122W	LED - 122W	LED - 122W	LED - 122W	LED - 122W	LED - 122W
CIRCUIT CONNECTION		B	R	B	R	B	R	B
CONNECTION TYPE		Type 1	Type 2	Type 2	Type 2	Type 2	Type 2	Type 1
SET BACK FROM LINE	EDGE OF PAVEMENT	-	-	-	-	-	-	-
	RAMP	"PR-S-3-A"	"PR-S-3-A"	"PR-S-3-A"	"PR-S-3-A"	"PR-S-3-A"	"PR-S-3-A"	"PR-S-3-A"
POLE SETBACK (FT)		77.8' RT.	30.8' LT.	43.5' RT.	111.2' RT.	79.7' RT.	21.9' RT.	58.1' LT.
BASE TYPE		TRANSFORMER	TRANSFORMER	TRANSFORMER	TRANSFORMER	TRANSFORMER	TRANSFORMER	TRANSFORMER
BREAKWAY POLE BASE (Y/N)		N	N	N	N	N	N	N
MAST ARM LENGTH (FT)		8	8	8	8	8	8	8
LUMINAIRE E.M.H. (FT)		30	30	30	30	30	30	30
NUMBER OF LUMINAIRES		1	1	1	1	1	1	1
IES DISTRIBUTION TYPE		III	III	III	III	III	III	III

*LUMINAIRE TYPE: C3 (122W) LED = GE Evolve ERLH_14C340.ies
B = Black Circuit; R = Red Circuit

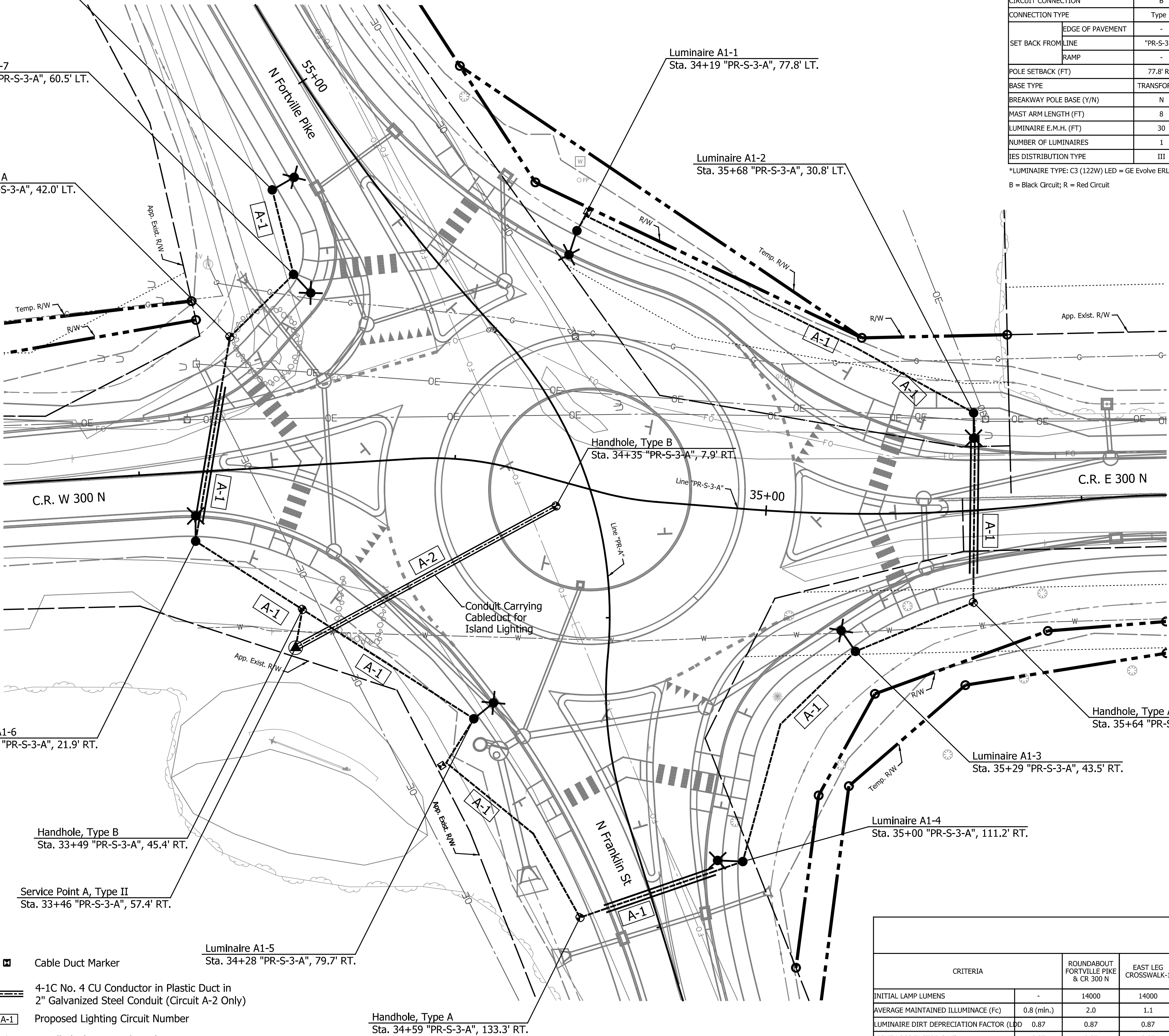
GENERAL NOTES FOR CONTRACTOR

1. The location of all underground and overhead utilities shown on this plan are based on topographic survey.
2. It will be the Contractor's responsibility to field verify all utility locations prior to any excavation associated with the lighting construction.
3. Contractor shall contact the design engineer to resolve any observed conflicts/discrepancies with these utilities.
4. Contractor shall use the Type B handhole in the center island for spot lighting (See landscaping plans for receptacle information).

LEGEND

- Luminaire, 122W LED, Type 3 Distribution on Conventional Light Pole, 30' Mounting Height and 8' Mast Arm with Non-Breakaway base
- 4-1C No. 4 CU Conductor in Plastic Duct in 2" Galvanized Steel Conduit
- 4-1C No. 4 CU Conductor in Plastic Duct in Trench
- Proposed Service Point A, Type II, 120/240V
- Cable Duct Marker
- 4-1C No. 4 CU Conductor in Plastic Duct in 2" Galvanized Steel Conduit (Circuit A-2 Only)
- Proposed Lighting Circuit Number
- Handhole (Type as shown)

Note:
All proposed asymmetric conventional lighting luminaires are to be GE Evolve ERLH models, 122 W, Type III Distribution, as listed in INDOT's LED Approved Luminaire List.



SERVICE POINT AMP TABLE							
SERVICE POINT	MAIN BREAKER	BRANCH CIRCUIT	COMPUTED AMPS		COMPUTED AMPS TOTAL	MAX VOLTAGE DROP (%)	BRANCH CIRCUIT BREAKER
A, TYPE II 240V	100 AMP	A-1	2.03	2.03	4.06	0.27	2-30 AMP

DESIGN DATA TABLE										
CRITERIA		ROUNDABOUT FORTVILLE PIKE & CR 300 N	EAST LEG CROSSWALK-1	EAST LEG CROSSWALK-2	WEST LEG CROSSWALK-1	WEST LEG CROSSWALK-2	NORTH LEG CROSSWALK-1	NORTH LEG CROSSWALK-2	SOUTH LEG CROSSWALK-1	SOUTH LEG CROSSWALK-2
INITIAL LAMP LUMENS	-	14000	14000	14000	14000	14000	14000	14000	14000	14000
AVERAGE MAINTAINED ILLUMINANCE (Fc)	0.8 (min.)	2.0	1.1	1.3	1.2	1.4	1.1	1.4	1.4	1.2
LUMINAIRE DIRT DEPRECIATION FACTOR (LDD)	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
LIGHT LOSS FACTOR (LLF)	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
UNIFORMITY RATIO (AVE/MIN)	4.0:1 (max.)	2.5:1	1.1:1	1.2:1	1.3:1	1.3:1	1.1:1	1.4:1	1.2:1	1.3:1
MOUNTING HEIGHT (Ft.)	-	30	30	30	30	30	30	30	30	30
LUMINAIRE CLASSIFICATION	-	Type III	Type III	Type III	Type III	Type III	Type III	Type III	Type III	Type III

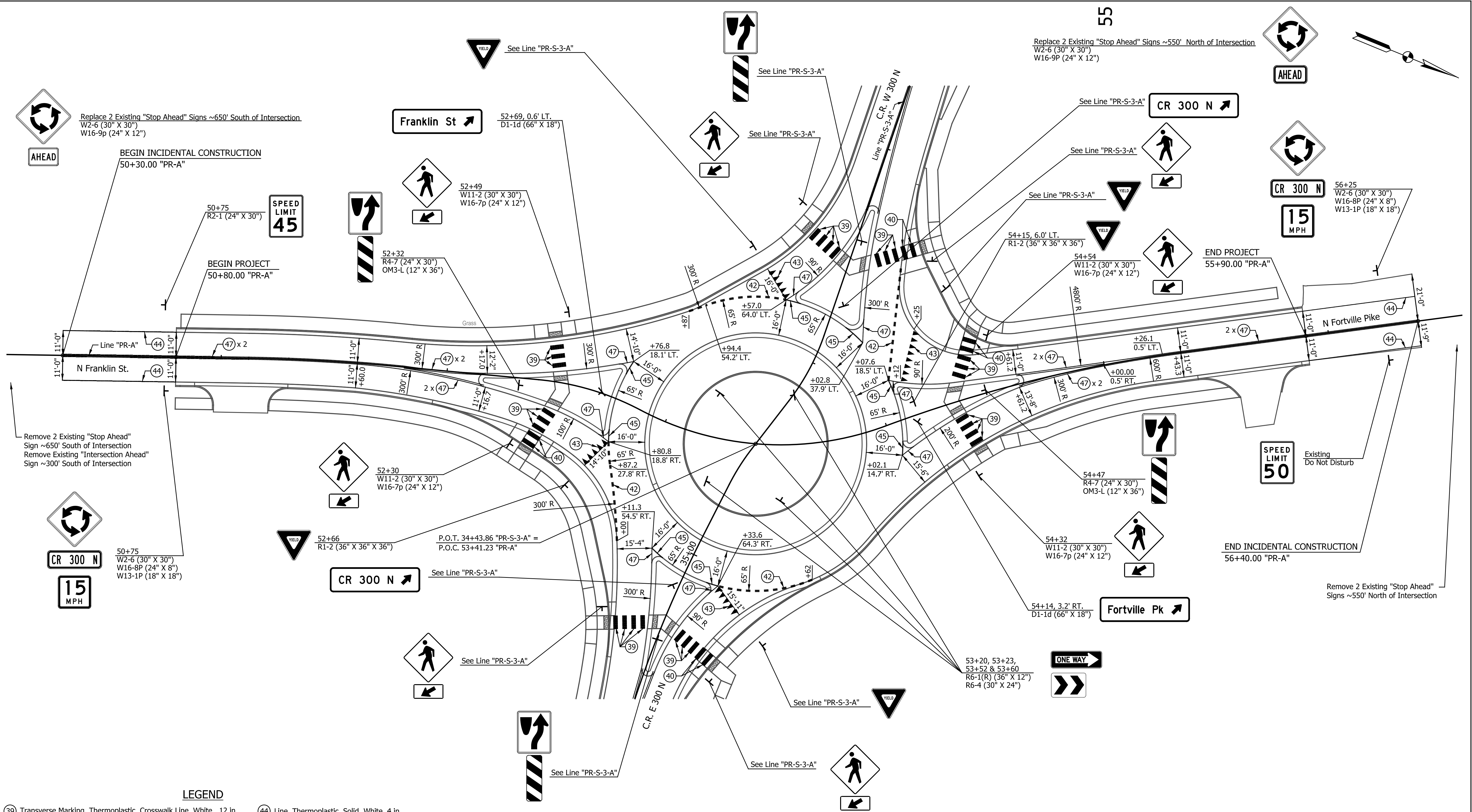
DATE	REVISION



RECOMMENDED FOR APPROVAL		6/07/2024
DESIGNED:	ASI	DRAWN:
CHECKED:	MSS	CHECKED:

CITY OF GREENFIELD
LIGHTING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	29 of 56
CONTRACT	PROJECT
N/A	2205FFE



- LEGEND**
- | | |
|--|--|
| (39) Transverse Marking, Thermoplastic, Crosswalk Line, White, 12 in. | (44) Line, Thermoplastic, Solid, White, 4 in. |
| (40) Transverse Marking, Multi-Component, Crosswalk Line, White, 12 in. | (45) Line, Thermoplastic, Solid, White, 6 in. |
| (42) Line, Thermoplastic, Dotted, White, 12 in. (2' Line, 2' Gap) | (47) Line, Thermoplastic, Solid, Yellow, 4 in. |
| (43) Transverse Marking, Thermoplastic, Yield Line, White, "Sharks Teeth" 24 in. | |

NOTES:
All Station and Offsets are taken from Line "PR-A", Except as Noted.
For additional Pavement Markings and Sign Details, see Line "PR-S-3-A".
Roundabout Ø ICD = 130'-0"

DATE	REVISION



RECOMMENDED FOR APPROVAL	<i>Josh Bove</i>	DESIGN ENGINEER	6/07/2024
DESIGNED:	JLH	DRAWN:	RJC
CHECKED:	JAB	CHECKED:	JAB

CITY OF GREENFIELD
PAVEMENT MARKINGS AND SIGNING DETAILS
LINE "PR-A"

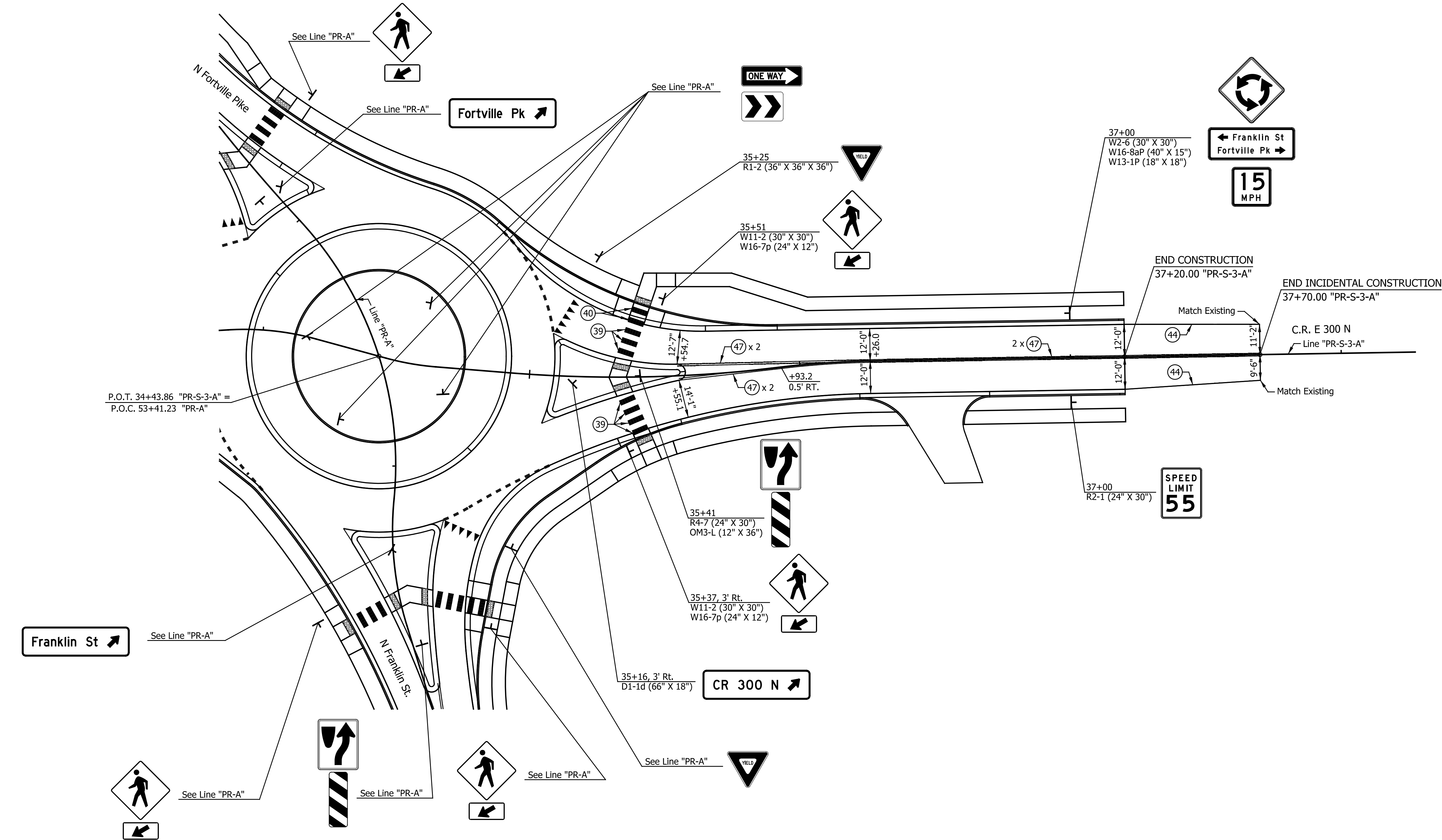
HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	30 of 56
CONTRACT	PROJECT
N/A	2205FFE



- | | |
|--|--|
| (39) Transverse Marking, Thermoplastic, Crosswalk Line, White, 12 in. | (44) Line, Thermoplastic, Solid, White, 4 in. |
| (40) Transverse Marking, Multi-Component, Crosswalk Line, White, 12 in. | (45) Line, Thermoplastic, Solid, White, 6 in. |
| (42) Line, Thermoplastic, Dotted, White, 12 in. (2' Line, 2' Gap) | (47) Line, Thermoplastic, Solid, Yellow, 4 in. |
| (43) Transverse Marking, Thermoplastic, Yield Line, White, "Sharks Teeth" 24 in. | |

NOTES:
All Station and Offsets are taken from Line "PR-S-3-A", Except as Noted.
For additional Pavement Markings and Sign Details, see Lines "PR-A" and "PR-S-3-A".
Roundabout Ø ICD = 130'-0"

DATE	REVISION		RECOMMENDED FOR APPROVAL: <u><i>Jordan Bock</i></u> 6/07/2024 DESIGN ENGINEER DATE		CITY OF GREENFIELD	HORIZONTAL SCALE BRIDGE FILE	
						1"=20'	N/A
						VERTICAL SCALE DESIGNATION	
					N/A	2205FFE	
					PAVEMENT MARKINGS AND SIGNING DETAILS		
					LINE "PR-S-3-A"		
				DESIGNED: <u>JLH</u> DRAWN: <u>RJC</u>	SURVEY BOOK SHEETS		
				CHECKED: <u>JAB</u> CHECKED: <u>JAB</u>	N/A 31 of 56		
					CONTRACT PROJECT		
					N/A 2205FFE		



LEGEND

- (39) Transverse Marking, Thermoplastic, Crosswalk Line, White, 12 in.

(40) Transverse Marking, Multi-Component, Crosswalk Line, White, 12 in.

(42) Line, Thermoplastic, Dotted, White, 12 in. (2' Line, 2' Gap)

(43) Transverse Marking, Thermoplastic, Yield Line, White, "Sharks Teeth" 24 in.
- (44) Line, Thermoplastic, Solid, White, 4 in.

(45) Line, Thermoplastic, Solid, White, 6 in.

(47) Line, Thermoplastic, Solid, Yellow, 4 in.

NOTES:
All Station and Offsets are taken from Line "PR-S-3-A", Except as Noted.
For additional Pavement Markings and Sign Details, see Lines "PR-A" and "PR-S-3-A".
Roundabout Ø ICD = 130'-0"

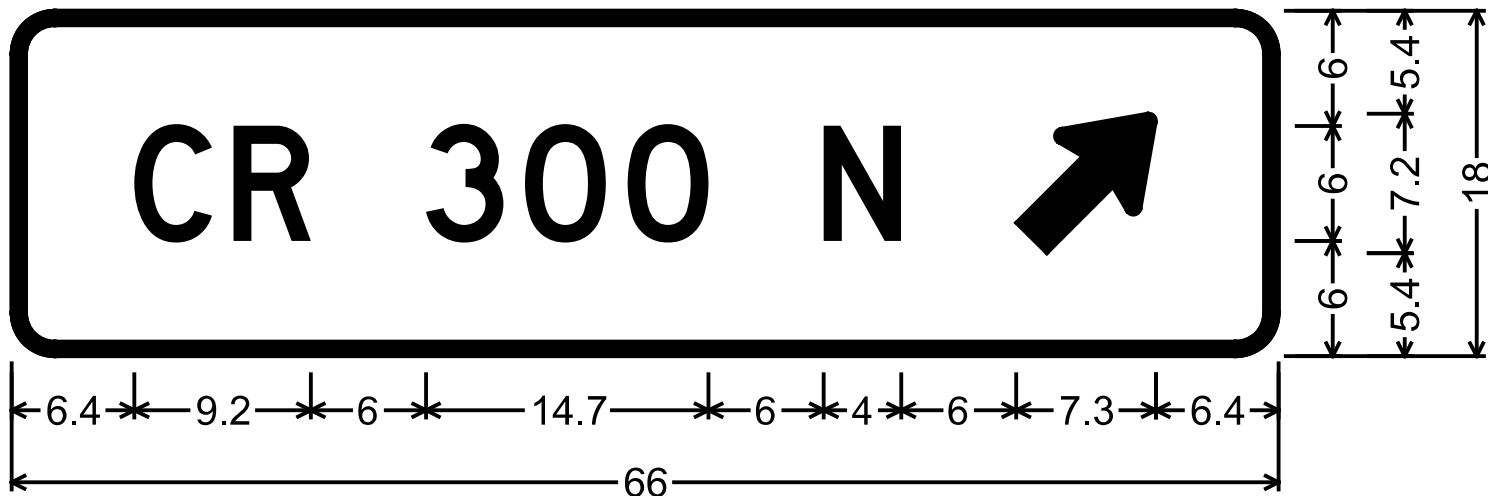
DATE	REVISION



RECOMMENDED FOR APPROVAL	<i>Josh Bove</i>	6/07/2024
DESIGNED:	JLH	DRAWN: RJC
CHECKED:	JAB	CHECKED: JAB

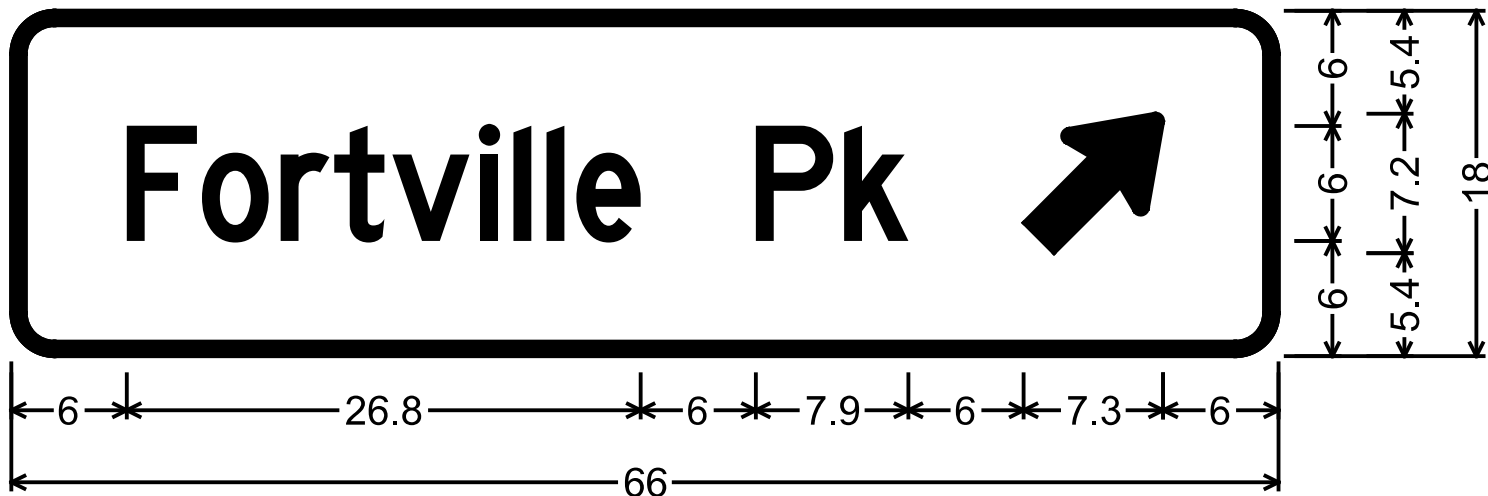
CITY OF GREENFIELD
PAVEMENT MARKINGS AND SIGNING DETAILS
LINE "PR-S-3-A"

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
N/A	32 of 56
CONTRACT	PROJECT
N/A	2205FFE



2.3" Radius, 0.8" Border, White on Green;
"CR 300 N", D; Arrow Custom - 9.0" 45°;
Table of letter and object lefts

C	R	3	0	0	N	↗
6.4	11.6	21.6	26.7	32.1	42.3	52.3



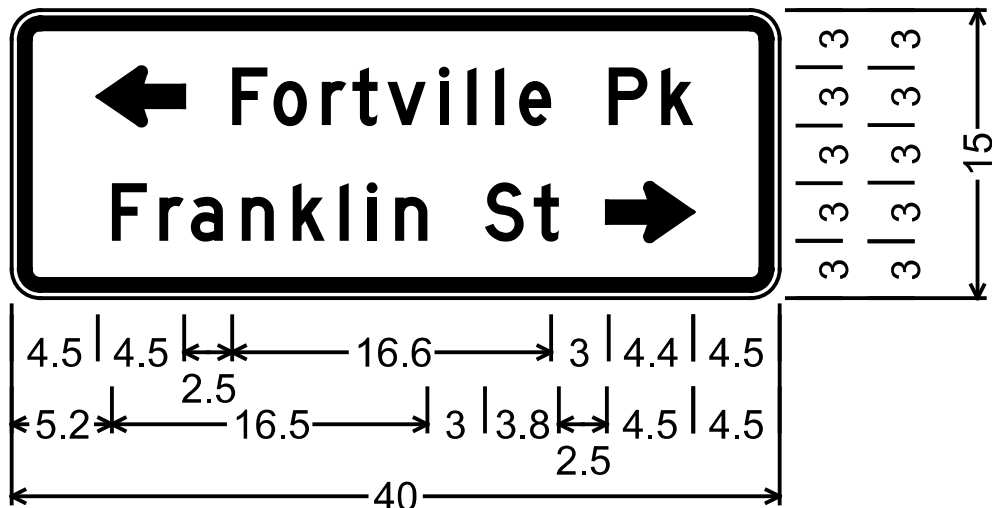
2.3" Radius, 0.8" Border, White on Green;
"Fortville Pk", D 40% spacing; Arrow Custom - 9.0" 45°;
Table of letter and object lefts

F	o	r	t	v	i	l	l	e	P	k	↗
6.0	9.9	14.0	16.8	19.8	24.4	26.1	27.9	29.4	38.8	43.4	52.7



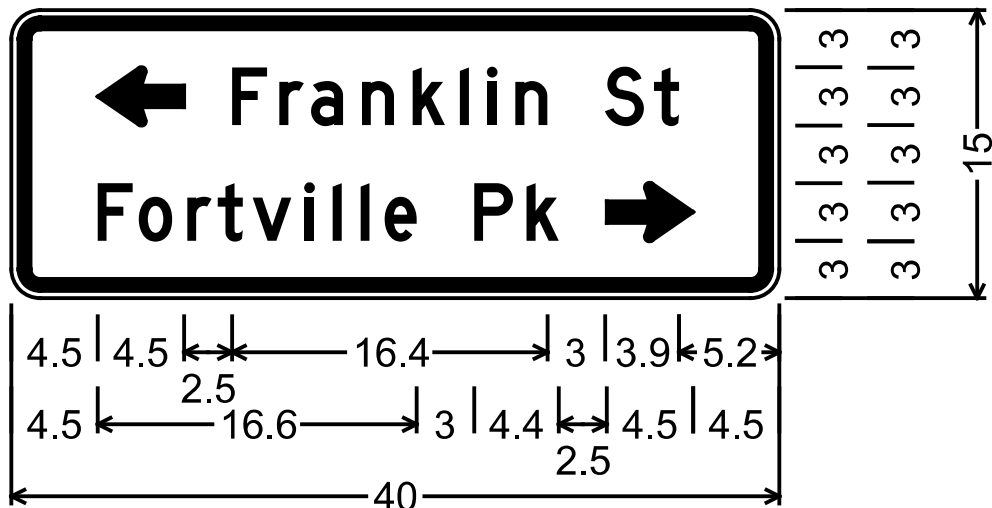
2.3" Radius, 0.8" Border, White on Green;
"Franklin St", D 50% spacing; Arrow Custom - 9.0" 45°;
Table of letter and object lefts

F	r	a	n	k	l	i	n	S	t	↗
6.2	10.5	13.4	17.7	22.1	26.2	28.1	30.0	39.4	43.9	52.5



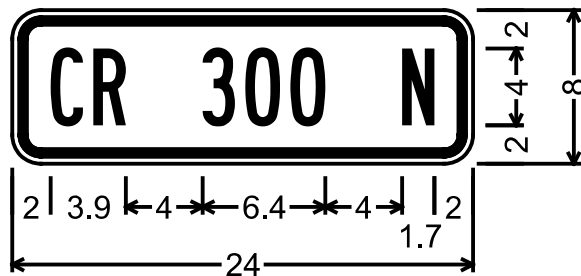
W16-8P_VARx15;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Yellow;
Arrow W16-8a; "Fortville Pk", D;
"Franklin St", D; Arrow W16-8a;
Table of letter and object lefts

←	4.5								
F	o	r	t	v	i	l	l	e	
11.5	13.6	16.2	17.8	19.6	22.3	23.7	25.2	26.4	
P	k								
31.1	33.8								
F	r	a	n	k	l	i	n		
5.2	7.7	9.3	12.0	14.6	17.1	18.5	20.0		
S	t	→							
24.7	27.2	31.0							



W16-8P_VARx15;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Yellow;
Arrow W16-8a; "Franklin St", D;
"Fortville Pk", D; Arrow W16-8a;
Table of letter and object lefts

←	4.5								
F	r	a	n	k	l	i	n		
11.5	14.0	15.6	18.3	20.9	23.4	24.8	26.3		
S	t								
30.9	33.5								
F	o	r	t	v	i	l	l	e	
4.5	6.6	9.2	10.8	12.6	15.3	16.7	18.2	19.4	
P	k	→							
24.1	26.8	31.0							



W16-8P;
1.5" Radius, 0.4" Border, 0.4" Indent, Black on Yellow;
"CR 300 N", B 90% spacing;
Table of letter and object lefts

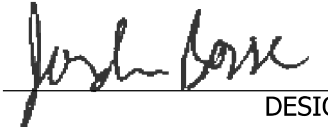
C	R	3	0	0	N
2.0	4.2	9.9	12.1	14.5	20.3

SHEET SIGN & POST SUMMARY															
SIGN							POST								
PLAN SHEET NO. / LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			MOUNTED ON PANEL SIGN, AREA (SFT)	U CHANNEL				SQUARE			
								POST LENGTH		POST LENGTH		2" x 2" - 12 GA. (TYPE 2) REINFORCED ANCHOR		2 1/4" x 2 1/4" - 12 GA. (TYPE 1) REINFORCED ANCHOR	
								1	2	TYPE "A"	TYPE "B"	POST LENGTH (FT)		POST LENGTH (FT)	
												1	2	TOTAL	TOTAL
0.080"	0.100"	0.125"	0.080"	1	2	TOTAL	1	2	TOTAL	1	2	TOTAL	1	2	TOTAL
Line "PR-A"	550' South of Intersection	W2-6	30 x 30	6.25											
		W16-9P	24 x 12	2.00											
	50+75 Rt.	W2-6	30 x 30	6.25										12.5	12.5
		W16-8P	24 x 8	1.33											
		W13-1P	18 x 18	2.25											
	50+75 Lt.	R2-1(45)	24 x 30	5.00										10.5	10.5
	52+30 Rt.	W11-2	30 x 30	6.25										11.5	11.5
		W16-7P	24 x 12	2.00											
	52+32 Med.	R4-7	24 x 30	5.00										8.5	8.5
		OM3-L	12 x 36	3.00											
	52+49 Lt.	W11-2	30 x 30	6.25										11.5	11.5
		W16-7P	24 x 12	2.00											
	52+66 Rt.	R1-2	36 x 36		3.90									10.5	10.5
	52+69 Med.	D1-1d	66 x 18			8.25						7.5	7.5	15.0	
	53+20 Med.	R6-1(R)	36 x 12		3.00									6.0	6.0
		R6-4	30 x 24	5.00											
	53+23 Med.	R6-1(R)	36 x 12		3.00									6.0	6.0
		R6-4	30 x 24	5.00											
	53+52 Med.	R6-1(R)	36 x 12		3.00									6.0	6.0
		R6-4	30 x 24	5.00											
	53+60 Med.	R6-1(R)	36 x 12		3.00									6.0	6.0
		R6-4	30 x 24	5.00											
	54+14 Med.	D1-1d	66 x 18			8.25						7.5	7.5	15.0	
	54+15 Lt.	R1-2	36 x 36		3.90									10.5	10.5
	54+32 Rt.	W11-2	30 x 30	6.25										11.5	11.5
		W16-7P	24 x 12	2.00											
	54+47 Med.	R4-7	24 x 30	5.00										8.5	8.5
		OM3-L	12 x 36	3.00											
	54+54 Lt.	W11-2	30 x 30	6.25										11.5	11.5
		W16-7P	24 x 12	2.00											
	56+25 Lt.	W2-6	30 x 30	6.25										12.5	12.5
		W16-8P	24 x 8	1.33											
		W13-1P	18 x 18	2.25											

SHEET SIGN & POST SUMMARY															
SIGN							POST								
PLAN SHEET NO. / LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			MOUNTED ON PANEL SIGN, AREA (SFT)	U CHANNEL				SQUARE			
								POST LENGTH		POST LENGTH		2" x 2" - 12 GA. (TYPE 2) REINFORCED ANCHOR		2 1/4" x 2 1/4" - 12 GA. (TYPE 1) REINFORCED ANCHOR	
								1	2	TYPE "A"	TYPE "B"	POST LENGTH (FT)		POST LENGTH (FT)	
												1	2	TOTAL	TOTAL
0.080"	0.100"	0.125"	0.080"	1	2	TOTAL	1	2	TOTAL	1	2	TOTAL	1	2	TOTAL
Line "PR-A"	550' North of Intersection	W2-6	30 x 30	6.25											
		W16-9P	24 x 12	2.00										12.5	12.5
Line "PR-S-3-A"	31+50 Rt.	W2-6	30 x 30	6.25										13.0	13.0
		W16-8P	40 x 15		4.17										
		W13-1P	18 x 18	2.25											
	31+50 Lt.	R2-1(50)	24 x 30	5.00										10.5	10.5
	33+34 Rt.	W11-2	30 x 30	6.25										11.5	11.5
		W16-7P	24 x 12	2.00											
	33+40 Lt.	W11-2	30 x 30	6.25										11.5	11.5
		W16-7P	24 x 12	2.00											
	33+42 Med.	R4-7	24 x 30	5.00										8.5	8.5
		OM3-L	12 x 36	3.00											
	33+50 Lt.	R1-2	36 x 36		3.90									10.5	10.5
	33+59 Rt.	R1-2	36 x 36		3.90									10.5	10.5
	33+72 Med.	D1-1d	66 x 18			8.25						7.5	7.5	15.0	
	35+16 Med.	D1-1d	66 x 18			8.25						7.5	7.5	15.0	
	35+25 Lt.	R1-2	36 x 36		3.90									10.5	10.5
	35+37 Rt.	W11-2	30 x 30	6.25										11.5	11.5
		W16-7P	24 x 12	2.00											
	35+41 Med.	R4-7	24 x 30	5.00										8.5	8.5
		OM3-L	12 x 36	3.00											
	35+51 Lt.	W11-2	30 x 30	6.25										11.5	11.5
		W16-7P	24 x 12	2.00											
	37+00 Rt.	R2-1(55)	24 x 30	5.00										10.5	10.5
	37+00 Lt.	W2-6	30 x 30	6.25										13.0	13.0
		W16-8P	40 x 15		4.17										
		W13-1P	18 x 18	2.25											
Total				186.50	40.00	33.00								60.0	310.0

DATE	REVISION



RECOMMENDED FOR APPROVAL		6/07/2024 DATE
DESIGNED: ASV	DRAWN: ASV	
CHECKED: JAB	CHECKED: JAB	

CITY OF GREENFIELD
SHEET SIGN AND POST SUMMARY

HORIZONTAL SCALE	BRIDGE FILE
NONE	N/A
VERTICAL SCALE	DESIGNATION
N/A	2205FFE
SURVEY BOOK	SHEETS
AAA	34 of 56
CONTRACT	PROJECT
N/A	2205FFE

Proj: 202202696
Indiana: State of Indiana

SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE	CLEAR ZONE AT DRIVE	MILLING, ASPHALT, 1 1/2 IN.	QC/QA-HMA, 2, 64,				JOINT ADHESIVE		LIQUID ASPHALT SEALANT	HMA FOR TACK COAT	SUBGRADE TREATMENT		PCCP FOR TRUCK APRON	PCCP FOR APPROACHES	COMPACTED AGGREGATE, NO. 53	DENSE GRADED SUBBASE	SIDEWALK, CONCRETE	REMARKS
						COMPACTED AGGREGATE BASE	HMA	CONCRETE				SURFACE 9.5 mm	INTERMD. 19.0 mm	BASE 19.0 mm	BASE 19.0 mm												
		1	2	3		165	275	385				385	SURFACE	INTERM.	II	IBC	7 IN.			6 IN.	6 IN.						
ft.	ft.	ft.	ft.	%	%	%	TONS	TONS	TONS	TONS	LFT	LFT	LFT	TONS	SYS.	SYS.	SYS.	SYS.	CYS.	CYS.	SYS.						
Line "PR-A"											300	179	257	360	430	599	499	599	2		3213	610		152		490	
51+08.9 RT.	Mod. Class I	24.0	13.0	8.5-8.5					-3.4	-1.5										43			43		7		Mod. Radius
55+66.3 RT.	Class I	12.5	25.8	20-10					1.5	4.4										63			63		11		
Line "PR-S-3-A"											269	135	187	262	328	537	437	537	2		2080	222		56		597	
31+11.0 LT.	Class I	16.0	50.0	20-10					2.0	6.0	14.0									113			113		19		
36+50.0 RT.	Class I	17.6	33.6	20-10					1.5	-6.0	-10.0									82			82		14		
TOTALS =											569	314	445	622	759	1136	936	1136	4	301	5294	832	301	208	51	1088	

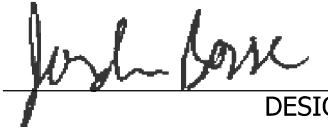
DATE	REVISION		RECOMMENDED FOR APPROVAL  6/07/2024 DESIGN ENGINEER DATE		CITY OF GREENFIELD	HORIZONTAL SCALE		BRIDGE FILE		
						NONE	N/A			
						VERTICAL SCALE	DESIGNATION			
					N/A	2205FFE				
					DESIGNED: ASV	DRAWN: ASV		SURVEY BOOK		SHEETS
				CHECKED: JAB	CHECKED: JAB		AAA 35 of 56		CONTRACT	
							N/A		PROJECT	
									2205FFE	

PAVED SIDE DITCH & SODDING SUMMARY TABLE																								
FROM STATION	TO STATION	LOCATION				DITCH SLOPE	DITCH WIDTH	SIDE SLOPE LEFT	SIDE SLOPE RIGHT	PAVED SIDE DITCH				FLEXAMAT ®	SODDING					RIPRAP				GEOTEXTILES FOR RIPRAP, TYPE 1A
		LEFT	MEDIAN	RIGHT	ROCK CUT					TOTAL PAY LENGTHS					FOR PAVED SIDE DITCH	FOR DITCHES	FOR MEDIAN	FOR SHOULDER	FOR LAWN	REVETMENT	CLASS 1	CLASS 2	UNIFORM	
										TYPE														
							FT	FT	FT	FT	FT	SYS	SYS											
Line "PR-A"																								
50+69.48	52+00.00	X				0.24%	0.0	3.0	3.0															
52+00.00	52+30.00	X				0.26%	0.0	3.0	3.0															
51+40.00	52+00.00			X		0.66%	0.0	3.0	3.0															
52+00.00	52+88.01			X		0.30%	0.0	3.0	3.0															
53+66.63	54+36.00			X		0.93%	0.0	3.0	3.0															
54+36.00	55+47.21			X		2.57%	0.0	3.0	3.0						35.8									
54+60.00	55+65.00	X				5.25%	0.0	3.0	3.0									57.0						114.20
Line "PR-S-3-A"																								
32+20.00	33+34.34	X				0.32%	0.0	3.0	3.0															
34+89.76	35+18.00	X				8.00%	0.0	3.0	3.0									15.0						30.10
35+18.00	35+44.24	X				0.30%	0.0	3.0	3.0									13.0						27.00
35+44.24	36+10.00	X				0.30%	0.0	3.0	3.0															
36+10.00	36+18.45	X				0.30%	0.0	3.0	3.0															
36+18.45	36+67.00	X				Std.	0.0	3.0	3.0						32.4									
36+67.00	37+20.00	X				Std.	0.0	3.0	3.0									27.0						55.00
37+20.00	37+58.53	X				4.93%	0.0	3.0	3.0									21.0						42.60
35+34.78	36+36.67			X		0.30%	0.0	3.0	3.0															
36+68.67	37+20.00			X		8.67%	0.0	3.0	3.0									26.0						53.40
	TOTALS =														69.0			159.0						323.00

MAILBOX APPROACHES				
LT./RT.	CL BOX STATION	DESCRIPTION	MAILBOX RESET	REMARKS
RT.	55+43	Line "PR-A"	1	Place in buffer between sidewalk and curb
RT.	30+90	Line "PR-S-3-A"	1	
LT.	36+46	Line "PR-S-3-A"	1	Place in buffer between sidewalk and curb
		TOTAL	3	

DATE	REVISION				



RECOMMENDED FOR APPROVAL		6/07/2024
	DESIGN ENGINEER	DATE
DESIGNED: _____	ASV	DRAWN: _____
		ASV
CHECKED: _____	JAB	CHECKED: _____
		JAB

CITY OF GREENFIELD	
MISCELLANEOUS TABLES	

HORIZONTAL SCALE	BRIDGE FILE	
NONE	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	2205FFE	
SURVEY BOOK	SHEETS	
AAA	36	of 56
CONTRACT	PROJECT	
N/A	2205FFE	

Info: 2024/06/07
Indiana_Shae10b1

UNDERDRAIN TABLE	
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UNDERDRAIN PIPE										OUTLET PIPE										OUTLET PROTECTORS								REMARKS
UNDERDRAIN PIPE LIMITS	TYPE 4 PIPE		GEOTEXTILES FOR UNDERDRAINS	AGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDERDRAIN PIPE TO STRUCTURE NO.	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED (1 OR 2)	6 IN 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 UNDERDRAIN	OUTLET PROTECTOR NO. _____	OUTLET PROTECTOR TYPE	LOCATION					
	4 IN.	6 IN.																					OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT		
FT.	FT.	SYS.	CYS.	TON	(%)		(Y/N)					LFT.																
Line "PR-A"																												
OUTSIDE LEFT																												
50+80.0		120	108.0	10.8		0.30%	903.29	Y			2	14	50+80	903.25	OP-1	903.01					OP-1	1	X		Mod. Depth			
52+00.0							903.65																		Mod. Depth			
52+00.0		67	60.3	6.0			903.86	N	100	903.36															Mod. Depth			
52+65.0							905.09																		Mod. Depth			
52+65.0		38.1	34.3	3.4			904.67	N	105	903.48																		
52+88.6							904.82																		High Point			
52+88.6		43	38.7	3.9			904.82																		High Point			
33+60.0 "PR-S-3-A"							904.62	N	201	903.73																		
54+28.0		42	37.8	3.8			905.65	N	108	904.50																		
54+70.0							907.19																					
54+70.0		120	108.0	10.8			907.19	N	111	904.90																		
55+90.0							910.19																					
Line "PR-A"																												
OUTSIDE RIGHT																												
50+80.0		120	108.0	10.8		0.30%	903.34	Y			2	30	50+80	903.25	OP-1	903.01					OP-1	1	X		Mod. Depth			
52+00.0							903.70																		Mod. Depth			
52+00.0		68	61.2	6.1			903.93	N	101	903.43																		
52+70.0							905.56																					
52+70.0		37	33.3	3.3			905.01	N	106	903.56																		
53+00.0							905.50																		High Point			
53+64.2		69	62.1	6.2			906.33																					
54+13.4							905.84	Y	107	904.65	2	17					107	904.50							Low Point			
54+13.4		57	50.9	5.1			906.34	Y	107	904.65	2	17					107	904.50							Low Point, Mod. Depth			
54+70.0							907.50																		Mod. Depth			
54+70.0		117	105.3	10.5			907.74	N	112	904.90																		
55+90.0							910.73																					
ROUNDABOUT CENTER ISLAND																												
53+09.9, 9.1' LT.		80	72.0	7.2			905.49	Y	106A	904.99	2						105								See Structure Data Table			
53+54.5, 27.9' RT.							906.24																					
53+09.9, 9.1' LT.		80	72.0	7.2			905.49																					
53+54.5, 27.9' RT.							906.24																					
SUBTOTAL		1058	952	95							10	78																

DATE	REVISION		RECOMMENDED FOR APPROVAL  6/07/2024 DESIGN ENGINEER DATE		CITY OF GREENFIELD	HORIZONTAL SCALE		BRIDGE FILE	
						NONE	N/A		
						VERTICAL SCALE	DESIGNATION		
					N/A	2205FFE			
					DESIGNED: ASV DRAWN: ASV	UNDERDRAIN TABLE	SURVEY BOOK		SHEETS
				CHECKED: JAB CHECKED: JAB	AAA		37	of	56
					CONTRACT		PROJECT		
					N/A	2205FFE			

UNDERDRAIN TABLE																												
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						REMARKS	
UNDERDRAIN PIPE LIMITS	TYPE 4 PIPE		GEOTEXTILES FOR UNDERDRAINS	AGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDERDRAIN PIPE TO STRUCTURE NO.	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED (1 OR 2)	6 IN 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 UNDERDRAIN	OUTLET PROTECTOR NO.____	OUTLET PROTECTOR TYPE	LOCATION					
	4 IN.	6 IN.																					OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT		
	FT.	FT.						(Y/N)				LFT.																
Line "PR-S-3-A"																												
OUTSIDE LEFT																												
30+95.0		28	25.2	2.5	0.25%	903.16																				Mod. Depth		
31+23.0						903.08	Y			2	46	31+23	902.94	OP-2	902.44					OP-2	1				X	Mod. Depth, Low Point		
31+27.0		233	209.7	21.0	0.25%	903.08	Y				2	46	31+27	902.94	OP-3	902.44					OP-3	1			X	Mod. Depth, Low Point		
32+95.0						903.50																						Mod. Depth
33+60.0						904.68																						
33+60.0		19	17.1	1.7		904.68	N	200	903.87																			
54+28.0 "PR-A"						905.68																						
34+83.4		42	37.8	3.8		906.35																				Mod. Depth		
36+10.0						904.62	N	205	904.12																			Mod. Depth, Low Point
36+50.0		70	63.0	6.3		904.90	N	207	904.26																			
37+20.0						906.81																						
Line "PR-S-3-A"																												
OUTSIDE RIGHT																												
30+95.0		5	4.5	0.5	0.25%	903.16																				Mod. Depth		
31+23.0						903.08	Y			2	16	31+23	902.94	OP-2	902.44					OP-2	1				X	Mod. Depth		
31+27.0		240	216.0	21.6	0.25%	903.08	Y				2	16	31+27	902.94	OP-3	902.44					OP-3	1			X	Mod. Depth		
32+95.0						903.50																						Mod. Depth
33+60.0						904.61																						
35+08.9		44	39.6	4.0		905.50																				High Point		
35+50.0						905.08	N	203	903.68																			
36+05.0		5	4.5	0.5	0.40%	905.32																						
36+10.0						905.30	N	206	903.90																			Low Point
36+10.0		5	4.5	0.5	0.40%	905.30	N	206	903.90																	Low Point		
36+15.0						905.32																						
36+80.0		38	34.2	3.4		905.50	N	209	904.74																			
37+20.0						906.81																						
SUBTOTAL		729	656	66							8	124																
TOTAL		1787	1608	161							18	202																

DATE	REVISION		RECOMMENDED FOR APPROVAL  6/07/2024 DESIGN ENGINEER DATE		CITY OF GREENFIELD	HORIZONTAL SCALE	BRIDGE FILE	
						NONE	N/A	
						VERTICAL SCALE	DESIGNATION	
					N/A	2205FFE		
					DESIGNED: ASV	DRAWN: ASV	SURVEY BOOK	SHEETS
					CHECKED: JAB	CHECKED: JAB	AAA 38 of 56	PROJECT
						CONTRACT	2205FFE	
						N/A		
					UNDERDRAIN TABLE			

Info:\dtd\cfe\cfe
Indiana_State.tbl

STRUCTURE DATA																															
STRUCTURE NUMBER	LOCATION					SIZE	DESCRIPTION		LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	REVTMENT RIPRAP	SCOUR PROTECTION				VIDEO INSPECTION	PIPE END SECTION	CONNECT TO STR. NO.	REMARKS
	STATION	LEFT	RIGHT	CROSS	OFFSET		PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE			COVER	UP STREAM	DOWN STREAM											SUMP DEPTH	GEOTEXTILE	RIPRAP					
																										FT	IN				
Line "PR-A"																															
CTO-1	51+00.0	x					Trench Drain, Type I													1A	4.7	1.1									
CTO-2	51+40.0		x				Trench Drain, Type III													1A	3.6	1.9									
100	52+00.0	x				15	2	Inlet M-10	17		1.4	903.36	903.32	75	N/A	7.0	1	4.1	2		1A	3.9	2.1					17	1		15" Pipe End Section Req'd.
101	52+00.0		x			15	2	Inlet M-10	25		0.7	903.43	903.36	75	N/A	7.0	1	5.2	2									25		100	
102	52+00.0		x		34.5	15	2	Pipe	19		1.0	903.82	903.43	75	N/A	7.0	1	4.4	2									19	1	101	15" Pipe End Section Req'd. on US End
103	52+62.0	x			35.0	24	2	Manhole J-4	36		1.5	903.46	903.39	75	N/A	7.0	1	16.1	2		1A	12.5	5.3					36	1		24" Pipe End Section Req'd.
104	52+64.0	x			40.6		N/A	Stormwater Treatment Structure			N/A	903.46		75	N/A	7.0	1		N/A											103	See Stormwater Treatment Structure Details
105	52+65.0	x				24	2	Manhole C-10	4		1.8	903.48	903.46	75	N/A	7.0	1	2.0	2									4		103	
106	52+70.0		x			24	2	Manhole C-10	54		1.2	903.56	903.48	75	N/A	7.0	1	21.8	2									54		105	
106A	53+09.9	x			9.1	6	N/A	Inlet A-2	47		N/A	904.67	903.48																	105	Underdrain Outlet Pipe Req'd, See Underdrain Table
107	54+10.0		x			12	2	Manhole C-10	42		1.7	904.65	904.50	75	N/A	7.0	1	12.0	2									42		108	
108	54+28.0	x				12	2	Manhole C-10	18		1.7	904.50	903.87	75	N/A	7.0	1	6.3	2									18		200	
109	54+36.0		x		51.2	12	2	Inlet E-7	30		1.7	905.43	904.65	75	N/A	7.0	1	9.0	2									30		200	
110	54+60.0	x			50.0	12	2	Pipe	38		1.7	904.80	903.87	75	N/A	7.0	1	11.4	2									38	1	200	12" Pipe End Section Req'd. on US End
111	54+70.0	x				12	2	Inlet M-10	42		2.4	904.90	904.50	75	N/A	7.0	1	15.2	2									42		108	
112	54+70.0		x			12	2	Inlet J-10	28		3.0	905.20	904.90	75	N/A	7.0	1	13.2	2											111	
Line "PR-S-3-A"													</																		

DATE

REVISION

INDIANA A BOSE
REGISTERED
No. 12100853
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

Josh Bose

DESIGN ENGINEER

6/07/2024
DATE

DESIGNED: ASV

DRAWN: ASV

CHECKED: JAB

CHECKED: JAB

CITY OF GREENFIELD

STRUCTURE DATA TABLE

HORIZONTAL SCALE

NONE

VERTICAL SCALE

N/A

SURVEY BOOK

AAA

CONTRACT

N/A

BRIDGE FILE

N/A

DESIGNATION

2205FFE

SHEETS

39 of 56

PROJECT

2205FFE

jslck

7/16/2024

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Ind-Add-Info
Indiana_Sheet.tbl

STRUCTURE DATA																															
STRUCTURE NUMBER	LOCATION					SIZE	DESCRIPTION		LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	REVTMENT RIPRAP	SCOUR PROTECTION				VIDEO INSPECTION	PIPE END SECTION	CONNECT TO STR. NO.	REMARKS
	STATION	LEFT	RIGHT	CROSS	OFFSET		PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE			COVER	UP STREAM	DOWN STREAM											SUMP DEPTH	GEOTEXTILE	RIPRAP					
																										FT	IN				
205	36+10.0	x				15	2	Manhole C-10	56		1.2	904.12	903.73	75	N/A	7.0	1	15.3	2								56		202		
206	36+10.0		x			12	2	Inlet M-10	57		1.7	903.90	903.68	75	N/A	7.0	1	17.1	2								57		203		
207	36+50.0	x				12	2	Inlet J-10	37		1.5	904.26	904.12	75	N/A	7.0	1	10.1	2								37		205		
208	36+52.7		x		33.6	15	3	Pipe	32		1.0	904.48	904.38	75	N/A	7.0	1	7.9	2		1A	3.9	2.1					-	2		2-15" Pipe End Sections Req'd.
209	36+80.0		x			12	2	Inlet J-10	66		2.6	904.74	903.90	75	N/A	7.0	1	24.0	2								66		206		

DATE

REVISION

INDIAN A BOSE

REGISTERED

No.

12100853

STATE OF

INDIANA

PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

Josh Bove

DESIGN ENGINEER

6/07/2024

DATE

DESIGNED: ASV

DRAWN: ASV

CHECKED: JAB

CHECKED: JAB

CITY OF GREENFIELD

STRUCTURE DATA TABLE

HORIZONTAL SCALE

NONE

VERTICAL SCALE

N/A

SURVEY BOOK

AAA

CONTRACT

N/A

BRIDGE FILE

N/A

DESIGNATION

2205FFE

SHEETS

40 of 56

PROJECT

2205FFE

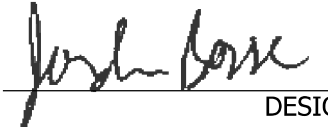
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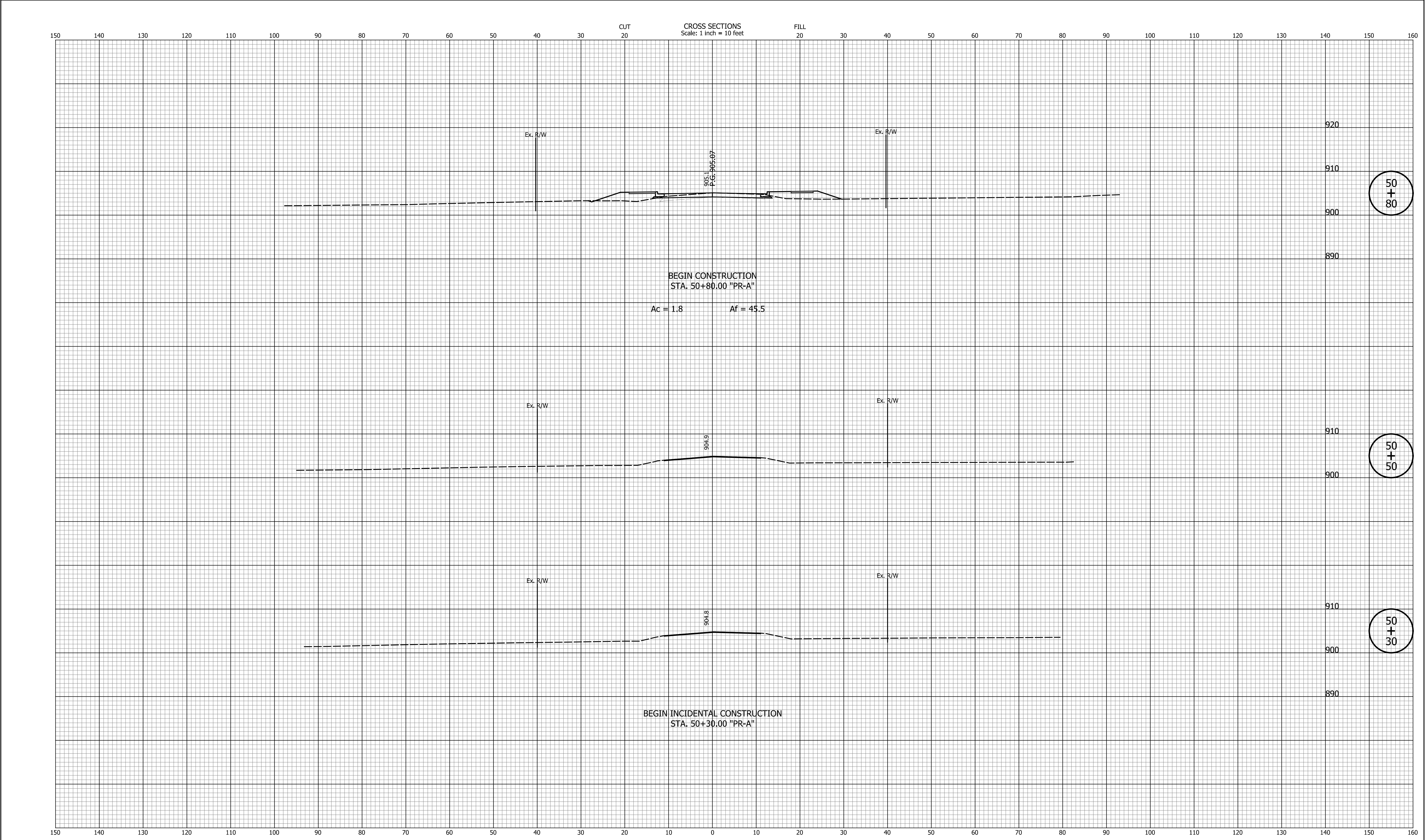
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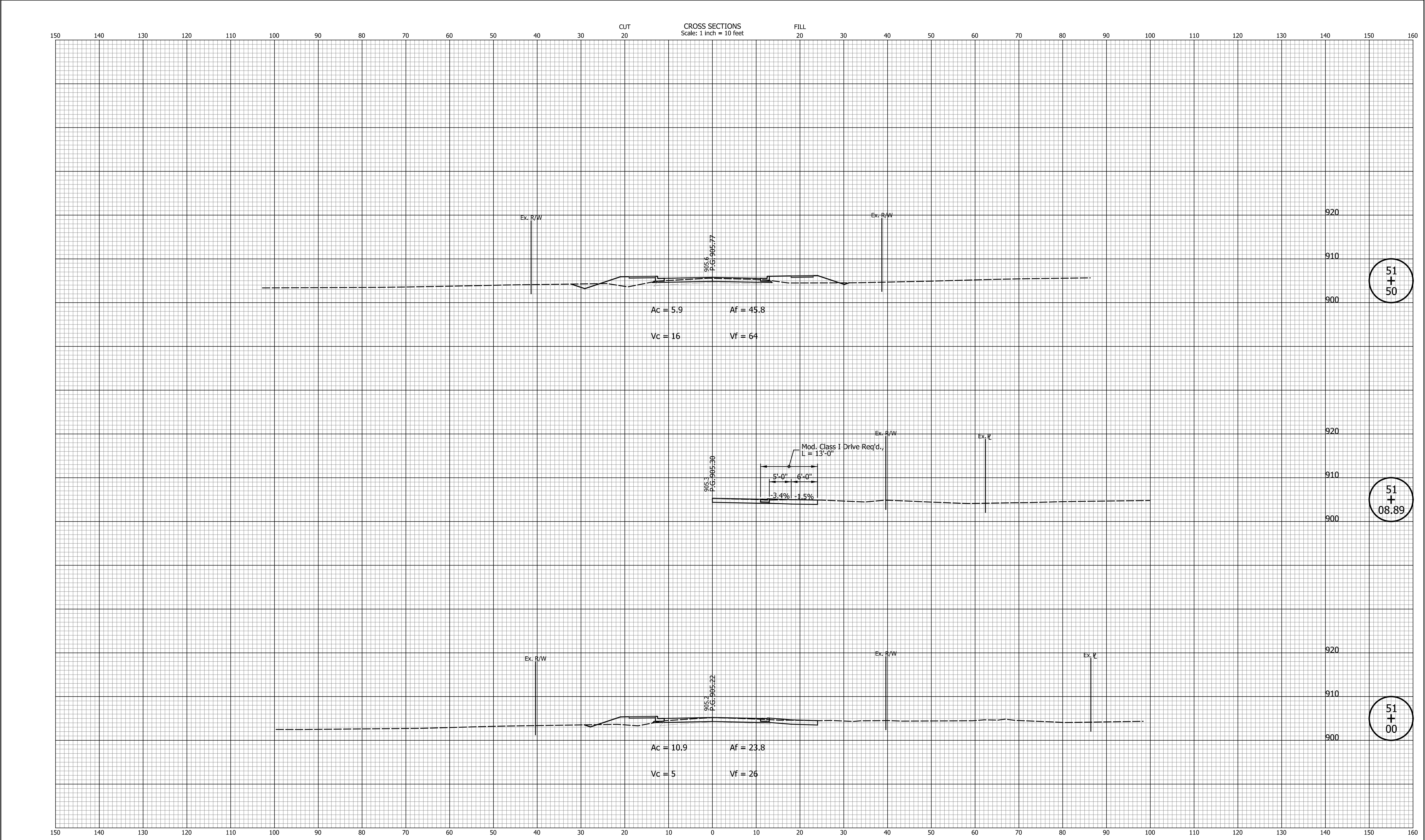
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		STRUCTURE NUMBER																											
PIPE TYPE / SHAPE		100	101	102	103	104	105	106	107	108	109	110	111	112	200	201	202	203	204	205	206	207	208	209					
SMOOTH PIPE SIZE		2/CIR	2/CIR	2/CIR	2/CIR	Intentionally	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR					
CORRUGATED PIPE SIZE		15	15	15	24	Omitted	24	24	12	12	12	12	12	12	15	15	18	24	15	15	12	12	15	12					
RCP / RCHEP (S)	CLASS	II	II	II	II		II	II	II	II	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	1000	1000	1000	1000	1000	1000	1000	1000					
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK			OK		OK		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK					
CORRUGATED PE PIPE, TYPE S (S) *													OK	OK		OK													
PROFILE WALL (RIBBED) PE PIPE (S) *																													
CORRUGATED POLYPROPYLENE PIPE													OK	OK		OK													
PROFILE WALL (CLOSED) PE PIPE (S)																													
SMOOTH WALL PE PIPE (S)																													
SMOOTH WALL PE PIPE (S) * / MAXIMUM DR													OK/26	OK/26		OK/26													
PROFILE WALL PVC PIPE (S)													OK	OK		OK													
SMOOTH WALL PVC PIPE (S) *													OK	OK		OK													
VITRIFIED 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																											
	ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE THICKNESS																											
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS																											
	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS																											
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE THICKNESS																											
	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE THICKNESS																											
	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS																											
	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS																											
	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS																											
	STR. PLATE ALUMINUM ALLOY PIPE (C)	CORR. PROFILE THICKNESS																											
	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE THICKNESS																											

DATE	REVISION			RECOMMENDED FOR APPROVAL  DESIGN ENGINEER 6/07/2024 DATE	CITY OF GREENFIELD	HORIZONTAL SCALE	BRIDGE FILE
				NONE		N/A	
				VERTICAL SCALE		DESIGNATION	
				N/A		2205FFE	
				SURVEY BOOK		SHEETS	
				AAA		41 of 56	
			CHECKED: JAB	CHECKED: JAB	PIPE MATERIAL SHEET	CONTRACT	PROJECT
						N/A	2205FFE



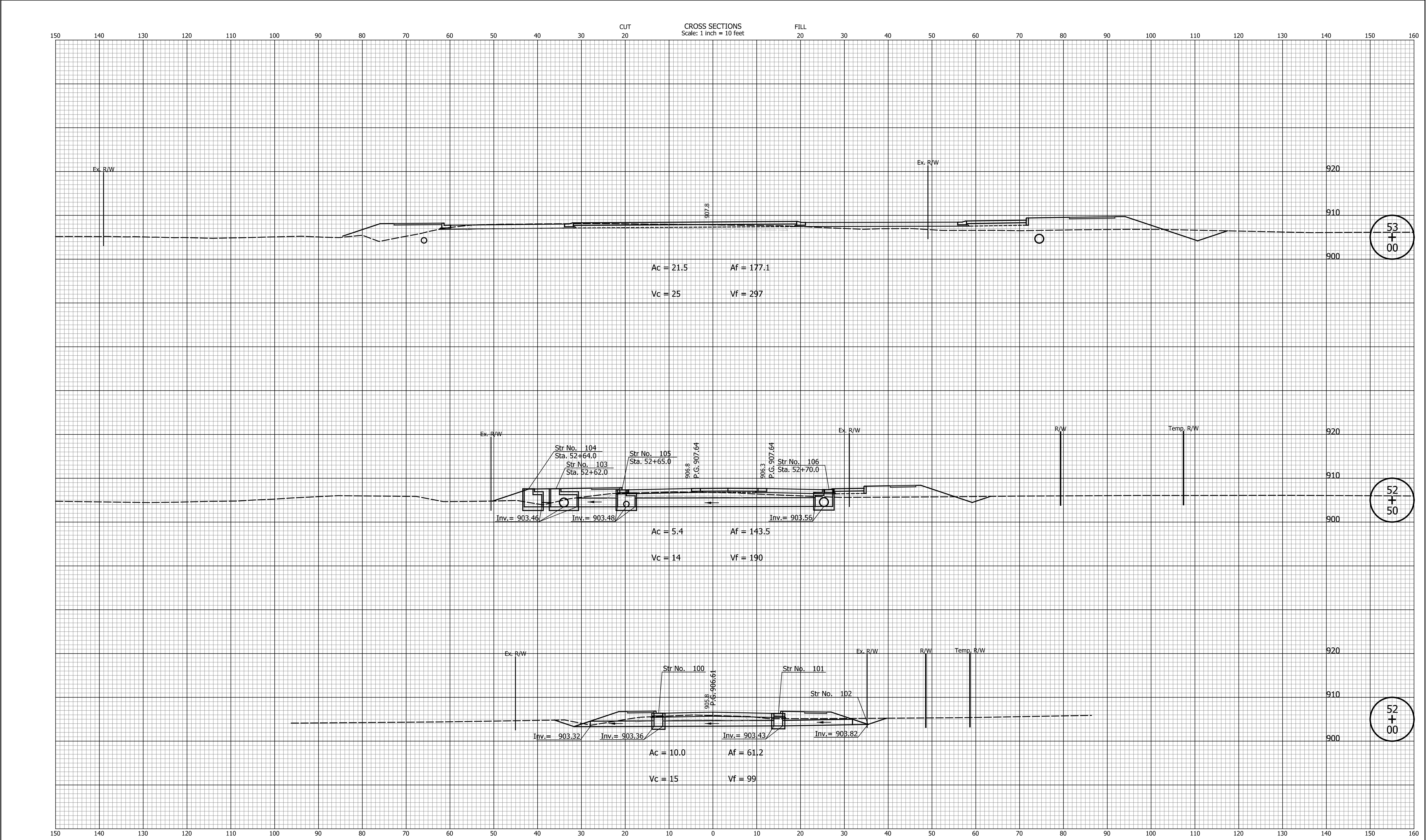
DATE	REVISION							CITY OF GREENFIELD		HORIZONTAL SCALE	BRIDGE FILE
										1"=10'	N/A
										VERTICAL SCALE	DESIGNATION
										1"=10'	2205FFE
										SURVEY BOOK	SHEETS
										N/A	42 of 56
										CONTRACT	PROJECT
										N/A	2205FFE



DATE	REVISION					CITY OF GREENFIELD		HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
								VERTICAL SCALE 1"=10'	DESIGNATION 2205FFE
								SURVEY BOOK N/A	SHEETS 43 of 56
								CONTRACT N/A	PROJECT 2205FFE

DESIGNED: ASV	DRAWN: ASV
CHECKED: JAB	CHECKED: JAB

CROSS SECTIONS LINE "PR-A"	
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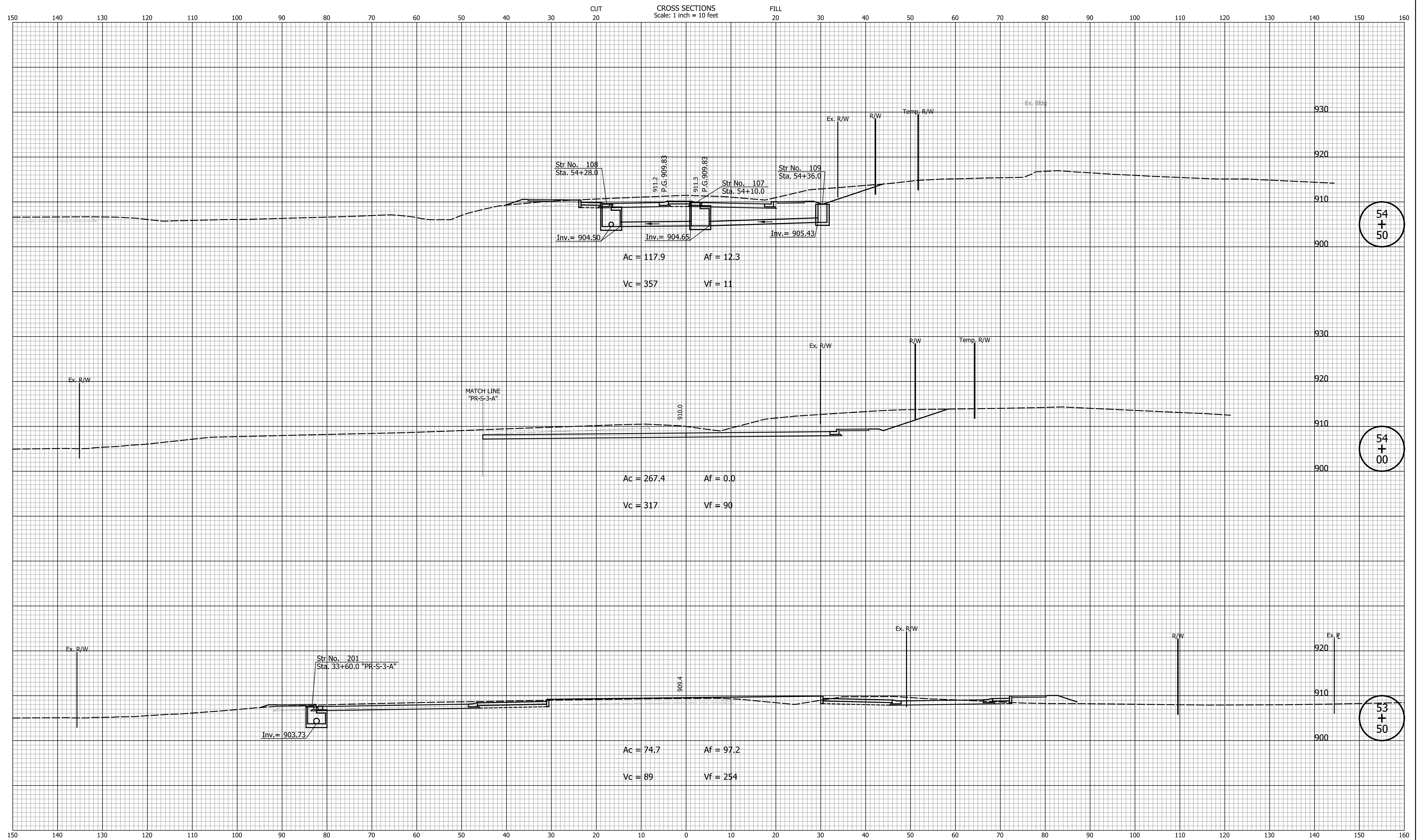


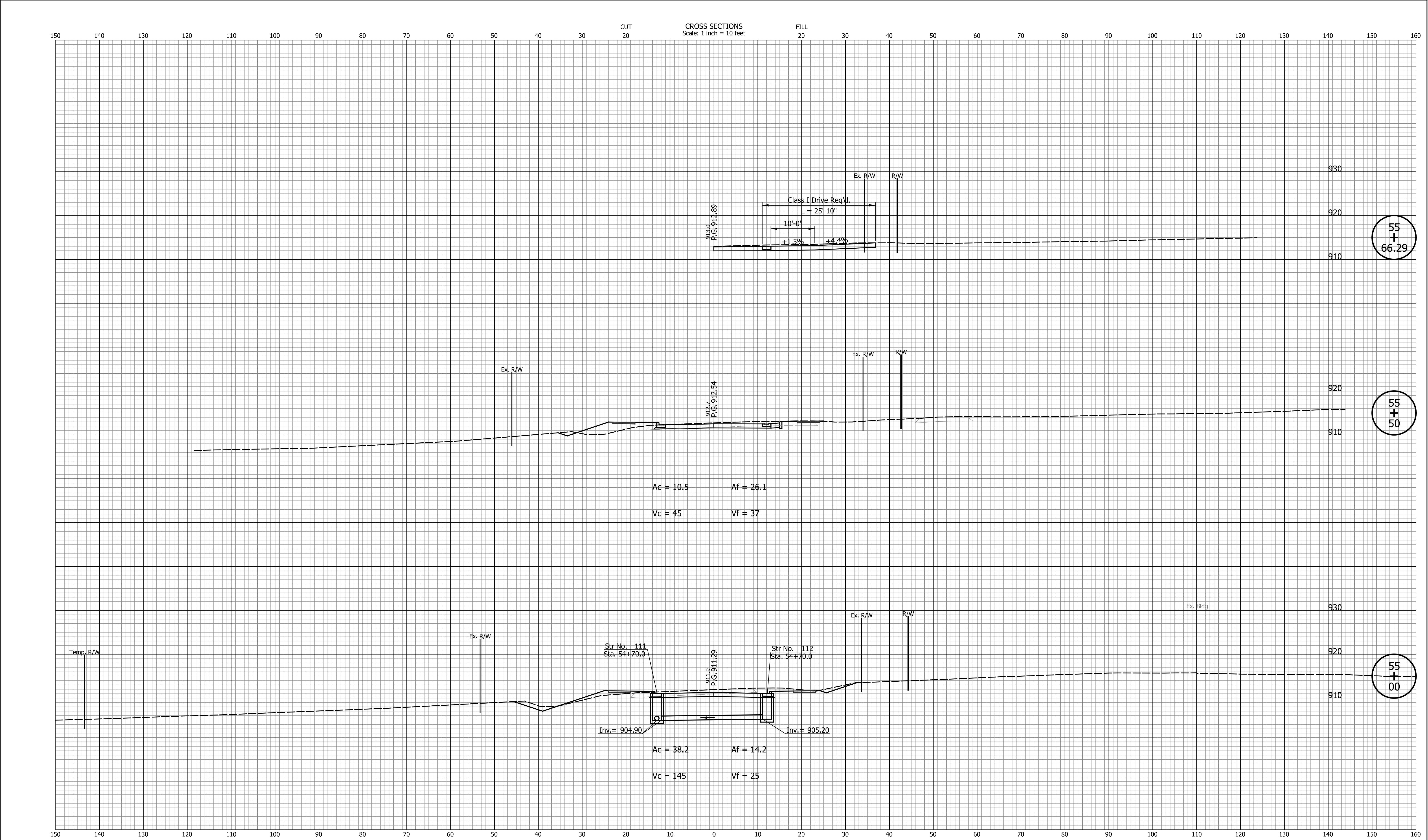
DATE	REVISION

DESIGNED: <u>ASV</u>	DRAWN: <u>ASV</u>
CHECKED: <u>JAB</u>	CHECKED: <u>JAB</u>

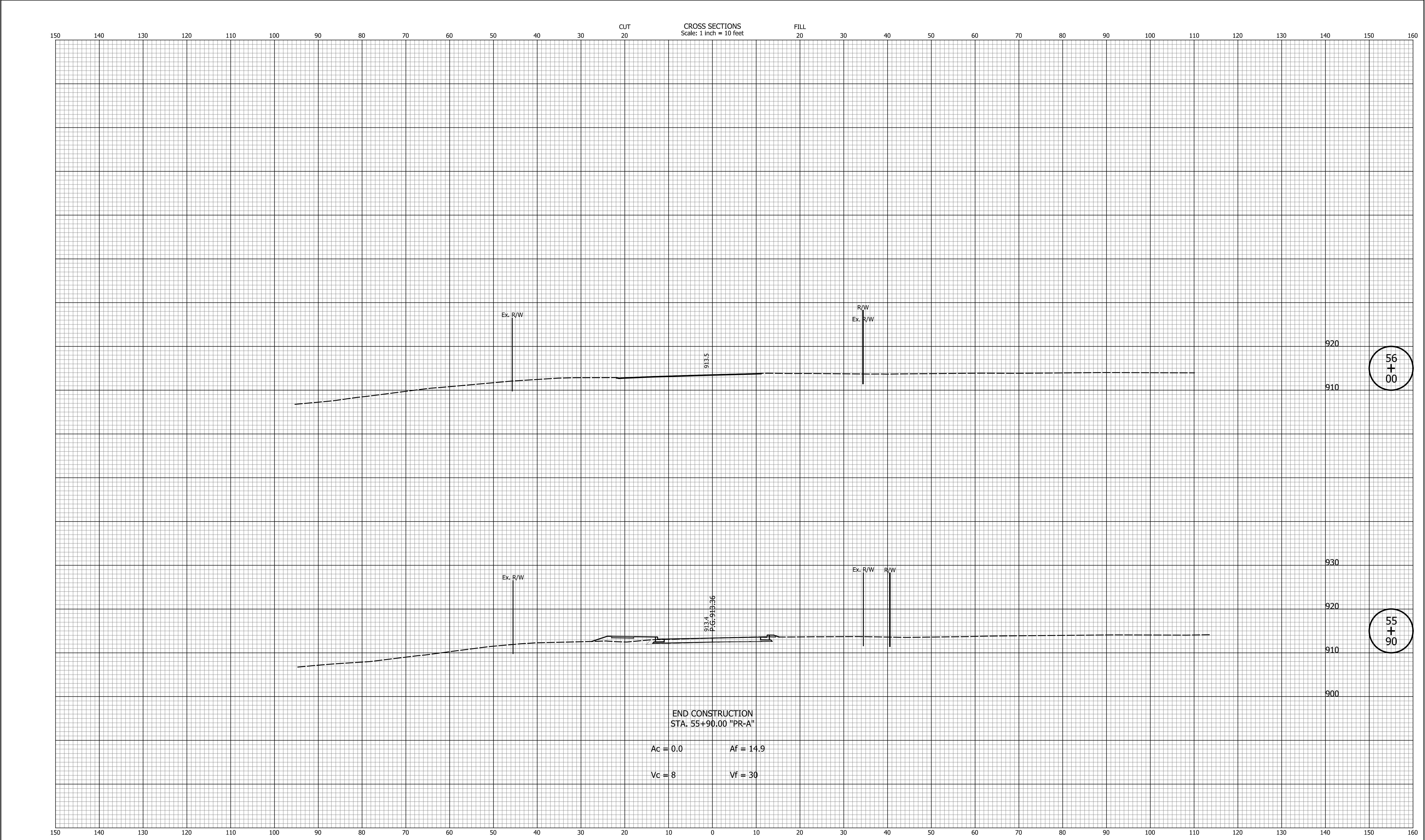
CITY OF GREENFIELD
CROSS SECTIONS LINE "PR-A"

HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION 2205FFE
SURVEY BOOK N/A	SHEETS 44 of 56
CONTRACT N/A	PROJECT 2205FFE

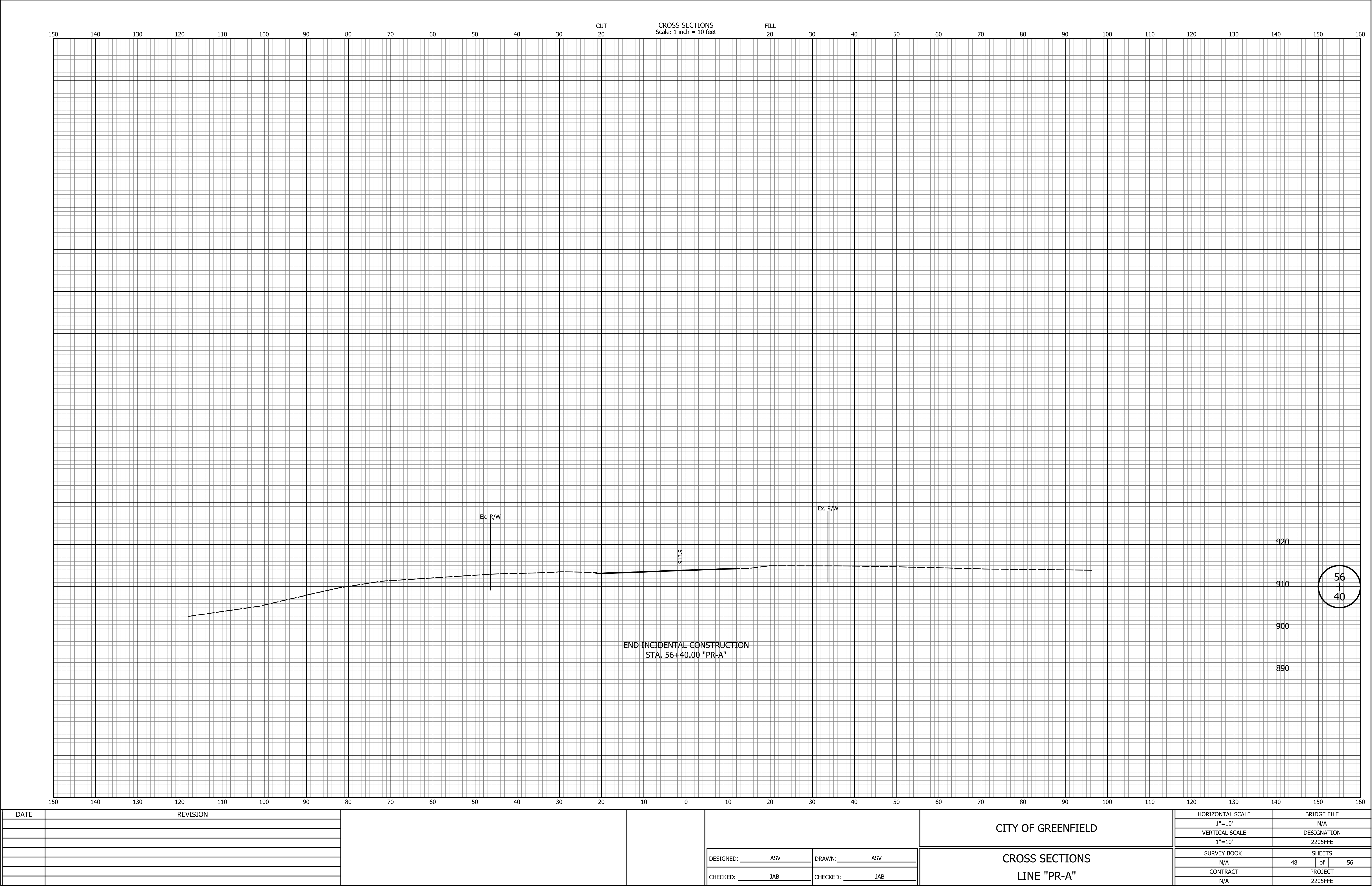
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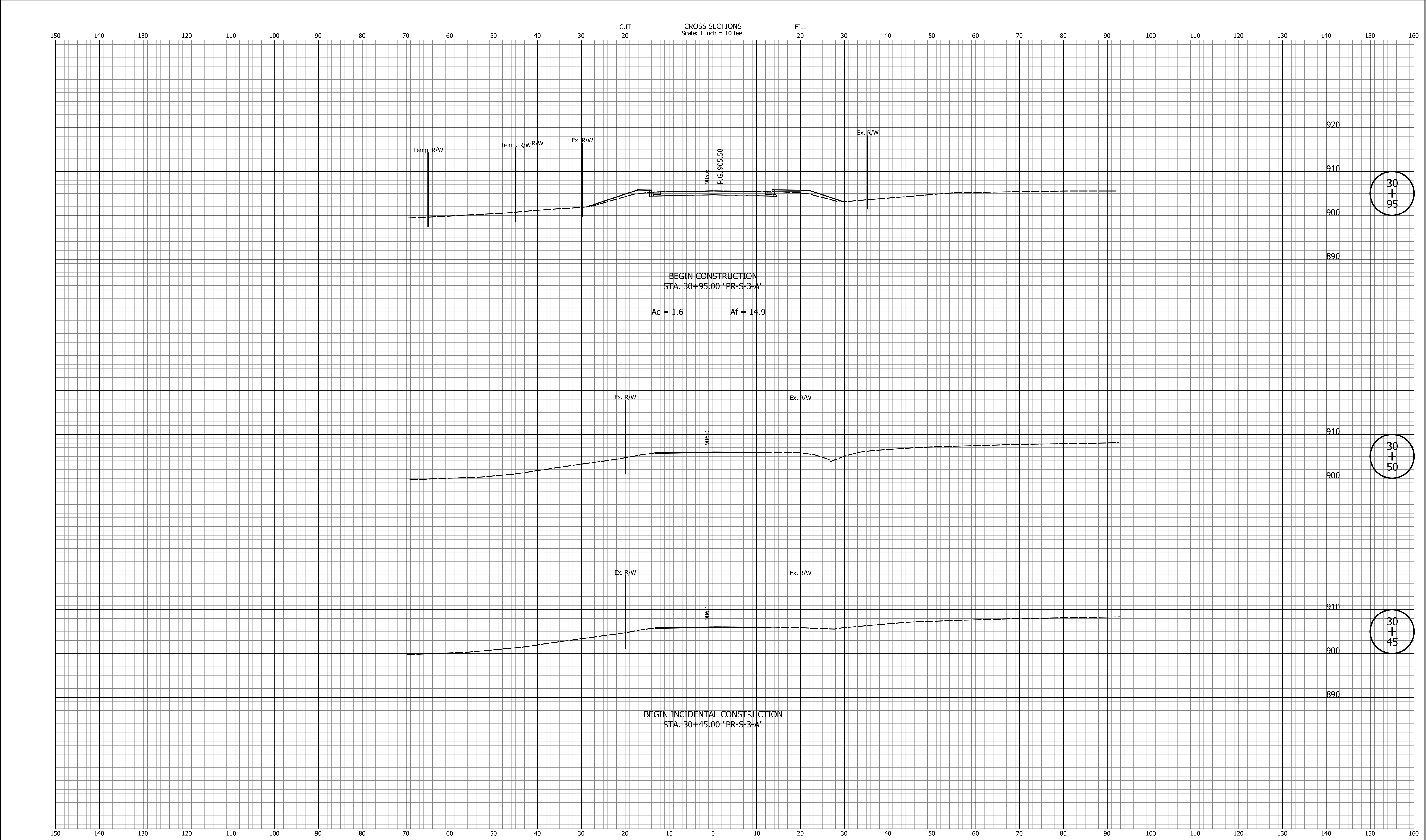
DATE	REVISION				CITY OF GREENFIELD				HORIZONTAL SCALE	BRIDGE FILE
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									VERTICAL SCALE	DESIGNATION
									1"=10'	2205FFE
									SURVEY BOOK	SHEETS
									N/A	46 of 56
									CONTRACT	PROJECT
									N/A	2205FFE



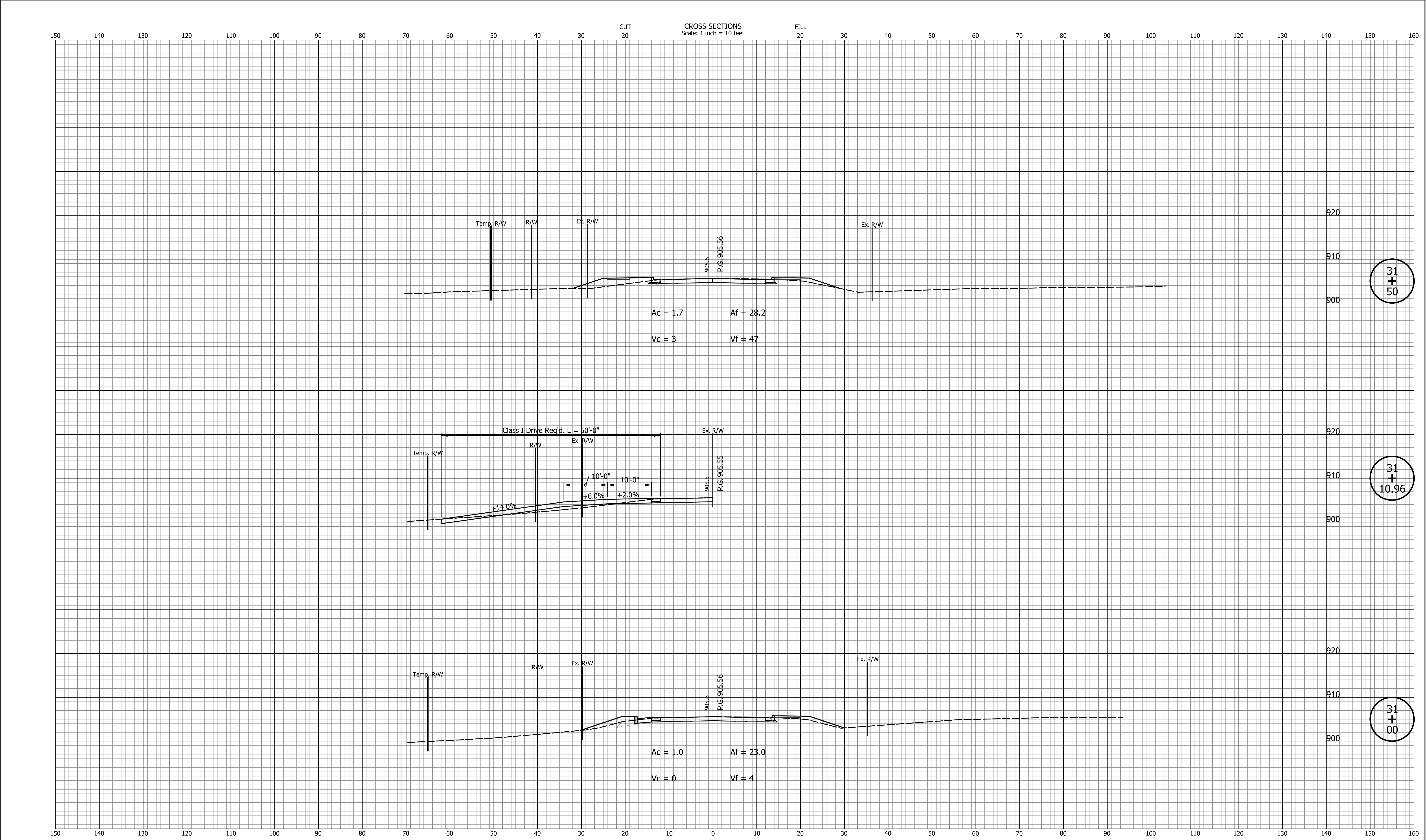
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											1"=10'	N/A
											VERTICAL SCALE	DESIGNATION
											1"=10'	2205FFE
											SURVEY BOOK	SHEETS
											N/A	47 of 56
											CONTRACT	PROJECT
											N/A	2205FFE



Proj: 2205FFE
Indiana State: 01



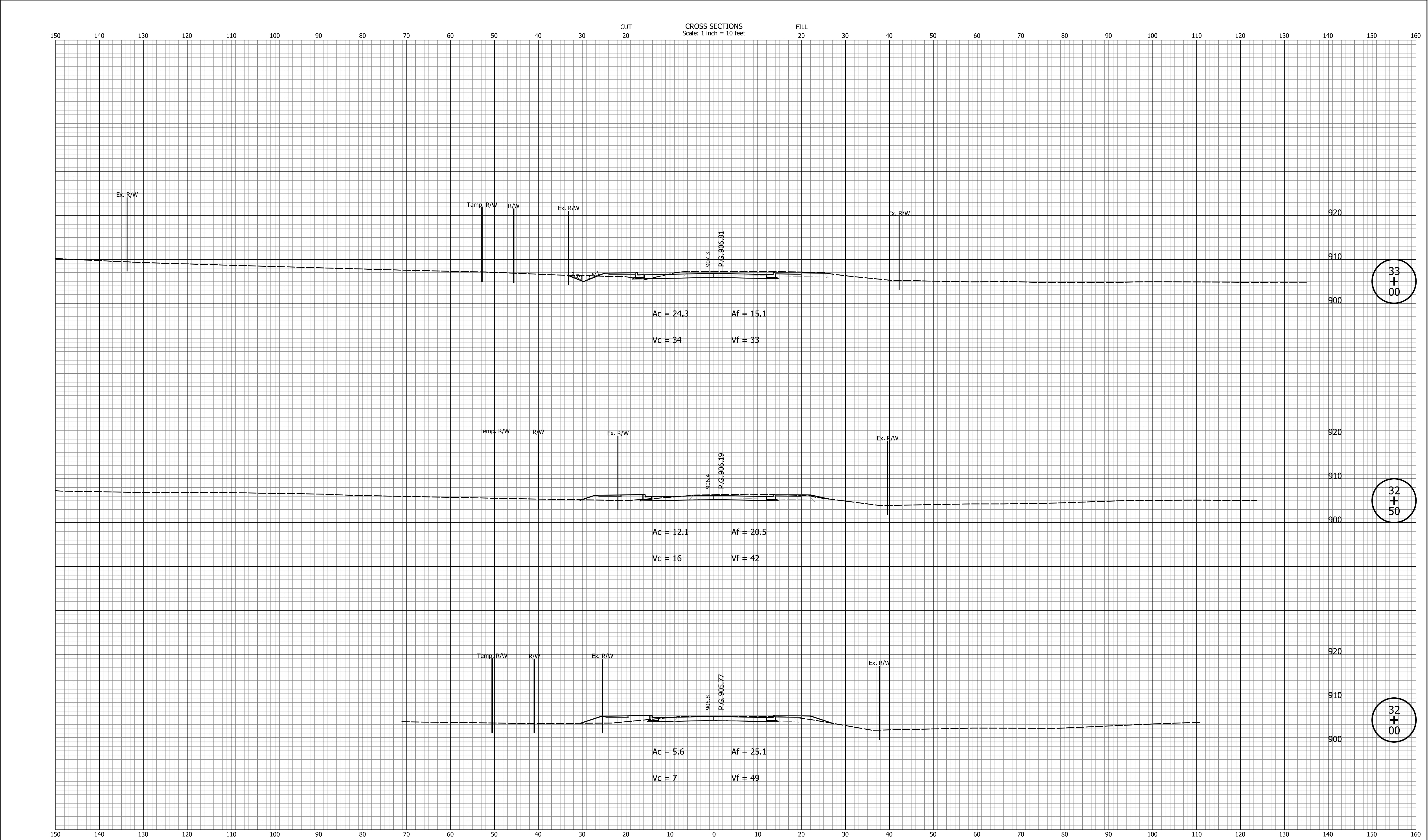
DATE	REVISION					CITY OF GREENFIELD		HORIZONTAL SCALE		BRIDGE FILE	
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								VERTICAL SCALE		DESIGNATION	
								1"=10'		2205FFE	
				DESIGNED: ASV DRAWN: ASV CHECKED: JAB CHECKED: JAB		CROSS SECTIONS LINE "PR-S-3-A"		SURVEY BOOK		SHEETS	
								N/A		49 of 56	
								CONTRACT		PROJECT	
								N/A		2205FFE	



DATE	REVISION								CITY OF GREENFIELD		HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
											VERTICAL SCALE 1"=10'	DESIGNATION 2205FFE
											SURVEY BOOK N/A	SHEETS 50 of 56
											CONTRACT N/A	PROJECT 2205FFE

DESIGNED: ASV	DRAWN: ASV
CHECKED: JAB	CHECKED: JAB

CROSS SECTIONS LINE "PR-S-3-A"	
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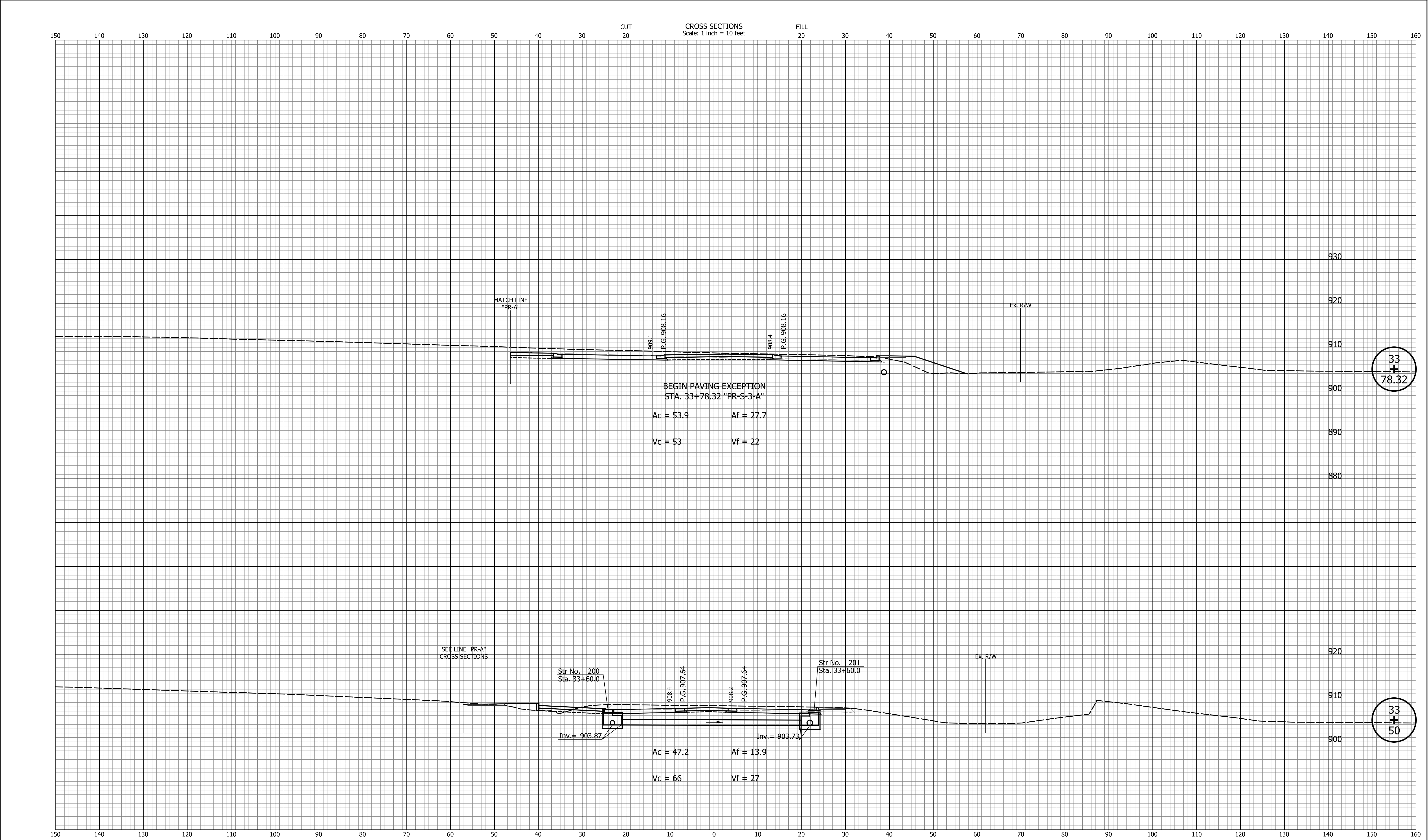


DATE	REVISION

DESIGNED: <u>ASV</u>	DRAWN: <u>ASV</u>
CHECKED: <u>JAB</u>	CHECKED: <u>JAB</u>

CITY OF GREENFIELD
CROSS SECTIONS LINE "PR-S-3-A"

HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
VERTICAL SCALE 1"=10'	DESIGNATION 2205FFE
SURVEY BOOK N/A	SHEETS 51 of 56
CONTRACT N/A	PROJECT 2205FFE

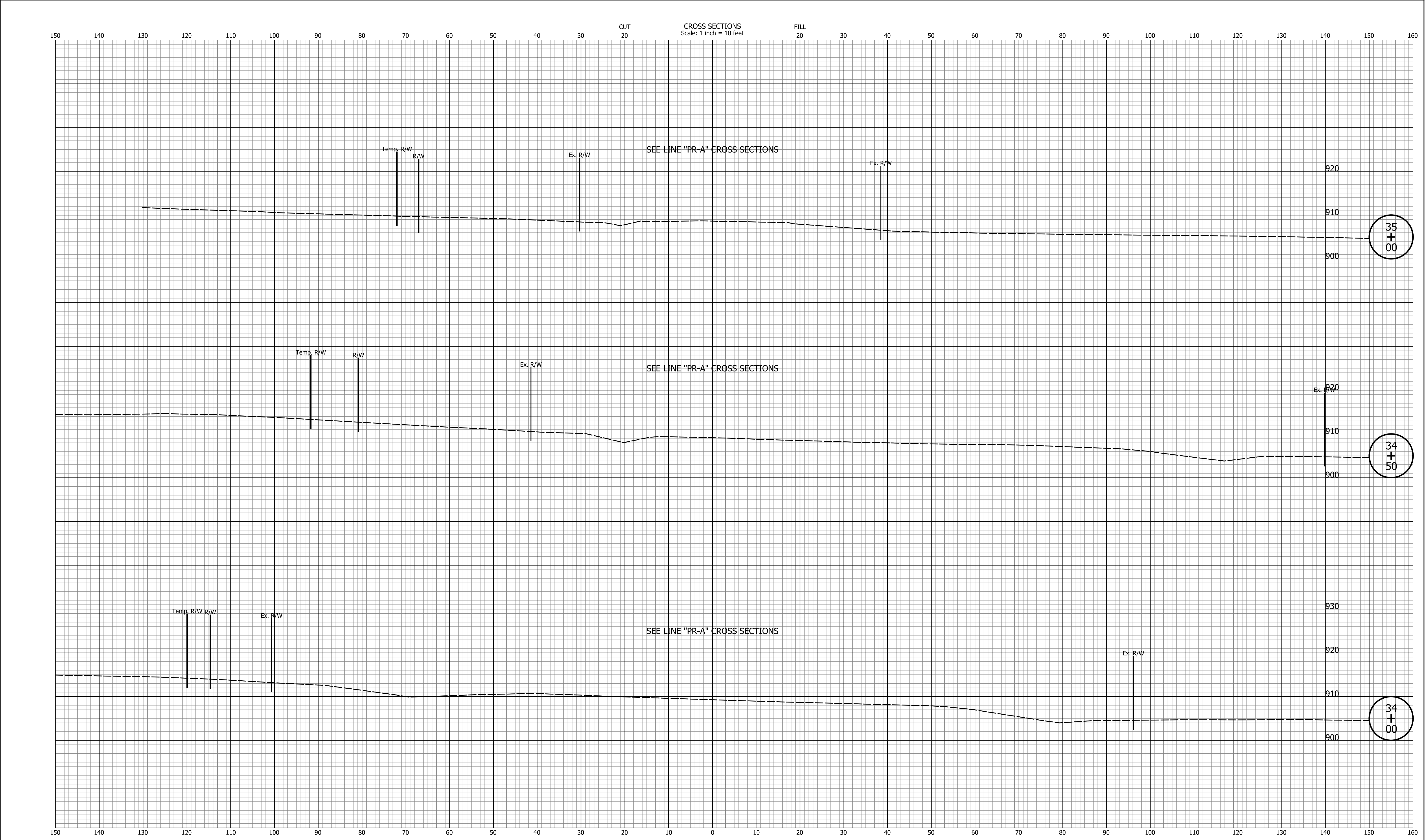


DATE	REVISION

DESIGNED: _____ ASV _____	DRAWN: _____ ASV _____
CHECKED: _____ JAB _____	CHECKED: _____ JAB _____

CITY OF GREENFIELD
CROSS SECTIONS LINE "PR-S-3-A"

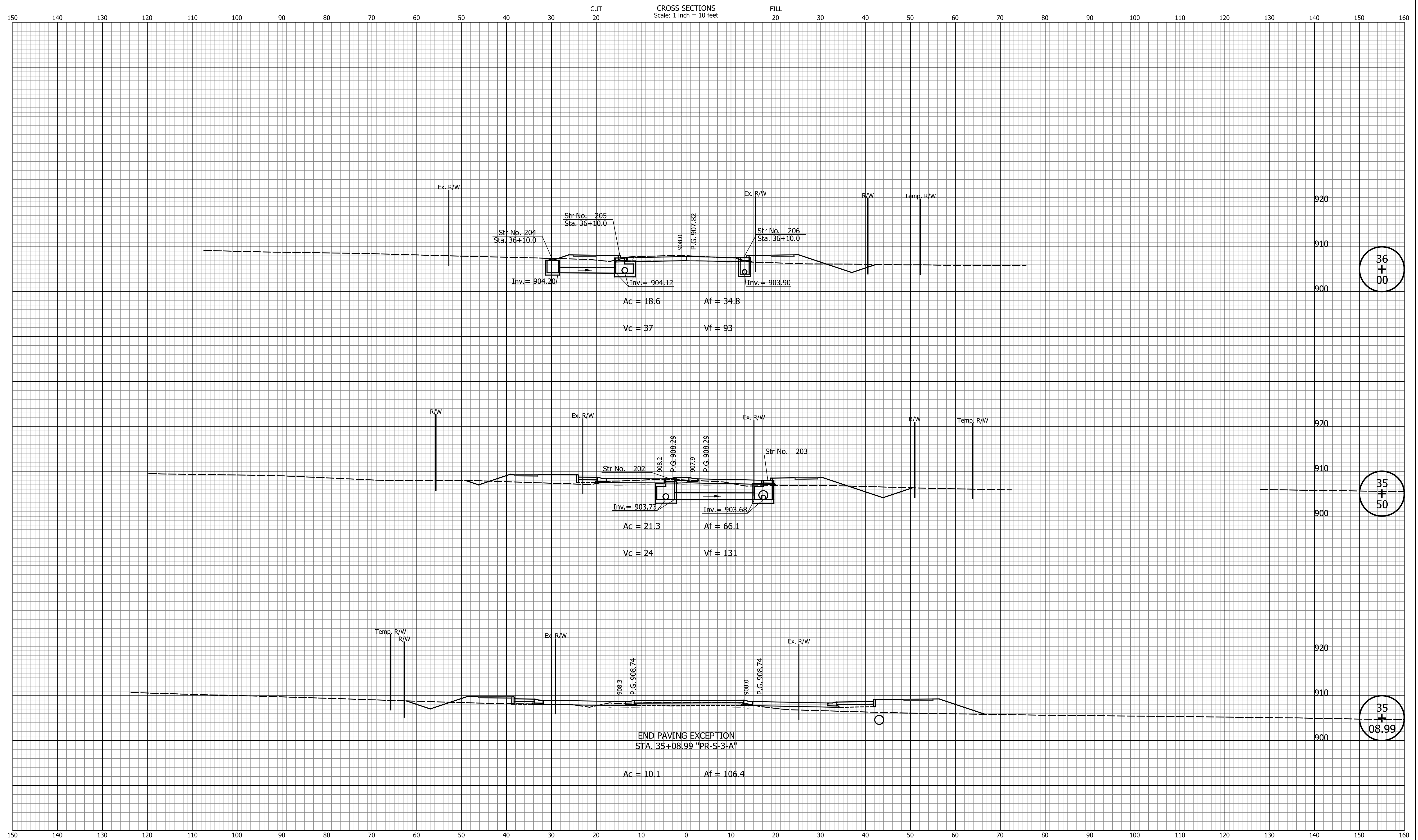
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VERTICAL SCALE 1"=10'	DESIGNATION 2205FFE
SURVEY BOOK N/A	SHEETS 52 of 56
CONTRACT N/A	PROJECT 2205FFE

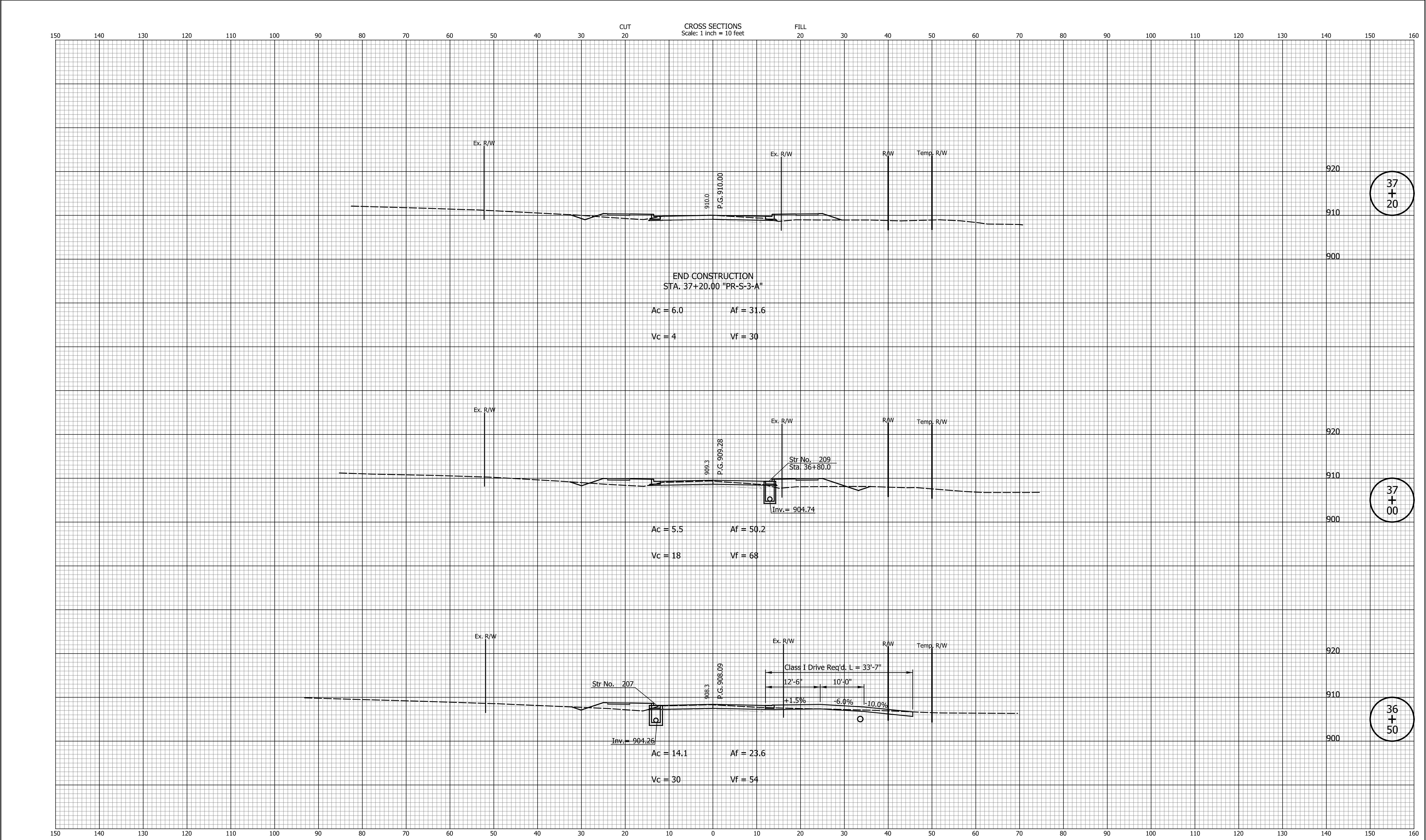


DATE	REVISION					CITY OF GREENFIELD		HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
								VERTICAL SCALE 1"=10'	DESIGNATION 2205FFE
								SURVEY BOOK N/A	SHEETS 53 of 56
								CONTRACT N/A	PROJECT 2205FFE

DESIGNED: ASV	DRAWN: ASV
CHECKED: JAB	CHECKED: JAB

CROSS SECTIONS LINE "PR-S-3-A"	
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[illegible]



DATE	REVISION								CITY OF GREENFIELD		HORIZONTAL SCALE 1"=10'	BRIDGE FILE N/A
											VERTICAL SCALE 1"=10'	DESIGNATION 2205FFE
											SURVEY BOOK N/A	SHEETS 55 of 56
											CONTRACT N/A	PROJECT 2205FFE

DESIGNED: ASV	DRAWN: ASV
CHECKED: JAB	CHECKED: JAB

CROSS SECTIONS LINE "PR-S-3-A"	
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