

PROJECT	DESIGNATION
17TH ST. RECONSTRUCTION	N/A
CONTRACT	
17TH ST. RECONSTRUCTION	

CITY OF BLOOMINGTON

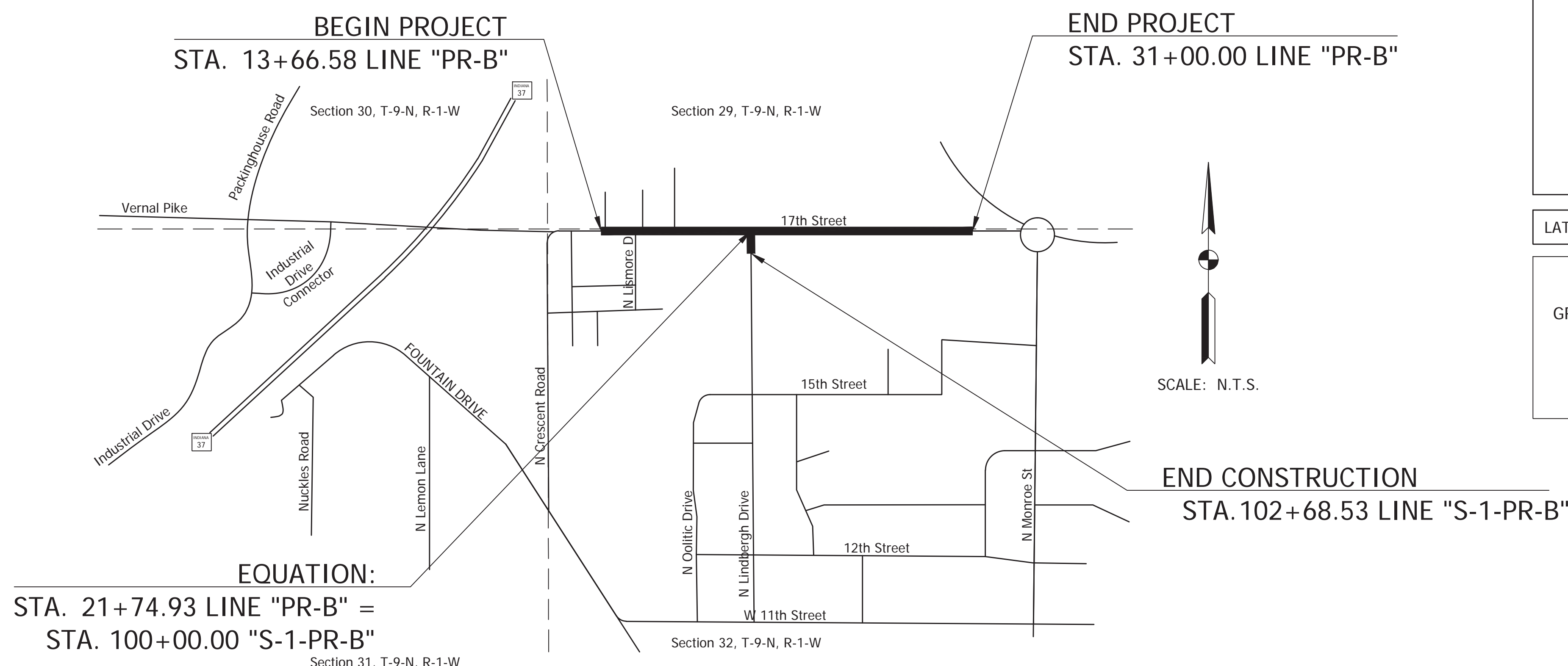
ROAD PLANS

17TH STREET RECONSTRUCTION

PROJECT NO. 17TH ST. RECONSTRUCTION P.E.
R/W
CONST.

TRAFFIC DATA		17TH STREET
A.A.D.T. (2016)		11,057 V.P.D.
A.A.D.T. (2035)		15,410 V.P.D.
D.H.V. (2035)		1,650 V.P.H.
DIRECTIONAL DISTRIBUTION		50 %
TRUCKS		1 % A.A.D.T. 1 % D.H.V.
DESIGN DATA		
DESIGN SPEED		30 M.P.H.
PROJECT DESIGN CRITERIA		3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION		ARTERIAL
RURAL/URBAN		URBAN
TERRAIN		ROLLING
ACCESS CONTROL		NONE

Beginning at a point approximately 309.17 feet east and 6.47 feet south of the northwest corner of Section 32, Township 9 North, Range 1 West on the centerline of 17th Street and running along said centerline in an easterly direction 1733.42 feet to a point approximately 623.75 feet west and 6.50 feet south of the northeast corner of the northwest quarter of Section 32, Township 9 North, Range 1 West being a part of Sections 29 & 32 of T-9-N, R-1-W, Bloomington Township, Monroe County, Indiana



EQUATION:
STA. 21+74.93 LINE "PR-B" =
STA. 100+00.00 "S-1-PR-B"

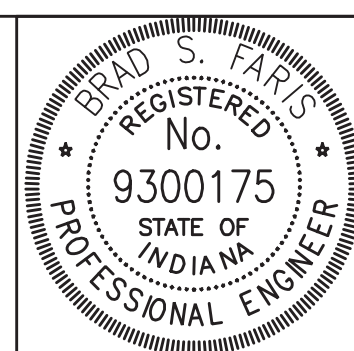
BLOOMINGTON TOWNSHIP MONROE COUNTY LOCATION MAP

LATITUDE: 39 10' 45" N LONGITUDE: 86 33' 09" W

GROSS LENGTH: 0.33 MI.
NET LENGTH: 0.33 MI.
MAX. GRADE: 10.00 %



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



PLANS PREPARED BY: AZTEC ENGINEERING GROUP, INC. (812) 717-2555
PHONE NUMBER
CERTIFIED BY: *Brad S. Farris* 12/28/2018
DATE

DESIGNATION	
N/A	
SURVEY BOOK	SHEETS
	1 of 100
CONTRACT	PROJECT
17TH ST. RECONSTRUCTION	17TH ST. RECONSTRUCTION

UTILITIES

CABLE TV: Comcast Central Indiana
1600 West Vernal Pike
Bloomington, IN 47404
Attn: Scott Templeton
scott.templeton@cable.comcast.com
Tel. 812-822-3262

GAS: Vectren Energy Delivery
4324 Middle Road
Columbus, IN 47203-1829
Attn: Christopher Baldwin
cbaldwin@vectren.com
Tel. 812-371-8854

ELECTRIC: Duke Energy Distribution
1619 West Deffenbaugh Street
Kokomo, IN 46902
Attn: Connie Maus
Connie.maus@duke-energy.com

ELECTRIC: Duke Energy Transmission
1000 East Main Street
Plainfield, IN 46168
Attn: Jeff Fields
jeff.fields@duke-energy.com

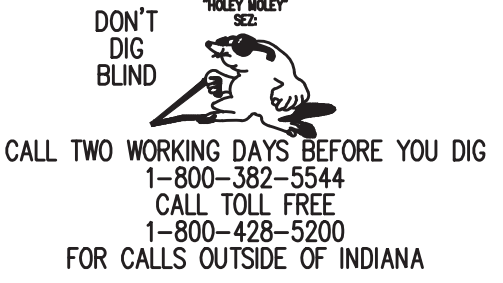
TRAFFIC SIGNS & PAVEMENT MARKINGS:
City of Bloomington Street Department
1981 S. Henderson Street
Bloomington, IN 47401
Attn: Mike Stinson 812-349-3450
stinsonm@bloomington.in.gov

COMMUNICATIONS: AT&T Distribution
4517 Indiana Bell Court
Bloomington, IN 47408
Attn: Brent McCabe
bm1792@att.com
Tel. 812-334-4521

WATER & SEWER: City of Bloomington Utilities Dept.
600 East Miller Drive
Bloomington, IN 47401
Attn: Jane Fleig
fleigj@bloomington.in.gov
Tel. 812-349-3631

FIBER OPTIC: US Signal
201 Ionia Avenue, SW
Grand Rapids, MI 49503
Attn: Rick Andricks
randricks@tkns.net
Tel. 614-483-6350

FIBER OPTIC: Zayo Fiber Solutions
9209 Castleton Drive
Indianapolis, IN 46256
Attn: Waylon Higgins
waylon.higgins@zayo.com
Tel. 765-341-1199



REVISIONS

SHEET NO.	DATE	REVISED

GENERAL NOTES

- ** All earth shoulders, median areas, and cut and fill slopes shall be plain or mulched seeded except where sodding is specified.
- The paper relocation will be cross sectioned by the Engineer before construction.
- ** Proposed sidewalk and multi-use path to be constructed with a 1.5% cross slope and shall not exceed 2%.

** REPRESENTS GENERAL NOTE REQUIRED

- LEGEND**
- (A) Variable Depth Plain PCCP on 3" Compacted Aggregate, No. 53, Base on Subgrade Treatment, Type IB
 - (C) PCCP for Approaches, 6 in. on Subgrade Treatment, Type II
 - (C1) PCCP for Approaches, 9 in. on Subgrade Treatment, Type II
 - (D) 550 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface Type B on
385 #/syd HMA Intermediate Type B on
Subgrade Treatment, Type II
 - (D1) 1320 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface Type B on
275 #/syd HMA Intermediate Type B on
880 #/syd HMA Base Type B on
Subgrade Treatment, Type II
 - (F) Concrete Sidewalk, 4 In. on
4 In. Compacted Aggregate, No. 53, Base
 - (F1) HMA for Sidewalk
140 #/syd HMA Surface Type A on
220 #/syd HMA Intermediate Type A on
6" Compacted Aggregate, No. 53, Base on
Subgrade Treatment, Type III
 - (K) Full Depth HMA Pavement
165 #/syd QC-QA HMA, 2, 70, Surface, 9.5 mm on
275 #/syd QC-QA HMA, 2, 70, Intermediate, 19.0 mm on
330 #/syd QC-QA HMA, 2, 64, Base, 25.0 mm on
3" Compacted Aggregate, No. 53, Base on
Subgrade Treatment, Type IB
 - (M) Milling, Asphalt, 1 1/2 in.
 - (N) 6" Compacted Aggregate for Surface, No. 73
 - (R) 165#/syd QC-QA HMA, 2, 70, Surface, 9.5 mm
 - (CR) Concrete Curb Ramp
 - (13) Concrete Curb
 - (15) Combined Concrete Curb and Gutter, Modified
 - (16) Concrete Curb and Gutter, Turnout
 - (17) Integral Curb
 - (26) Sodding, Nursery
 - (31) Line, Thermoplastic, Solid, Yellow, 4 in.
 - (32) Transverse Markings, Thermoplastic, Stop Bar, White, 24 in.
 - (33) Transverse Markings, Thermoplastic, Crosswalk Line, 6 in.
 - (34) Transverse Markings, Multi-Component, Crosswalk Line, 24 in.
 - (35) Pavement Message Markings, Multi-Component, Chevron
 - T Ground Mounted Sheet Sign
 - ◆ Snowplowable Raised Pavement Marker, Two-Way

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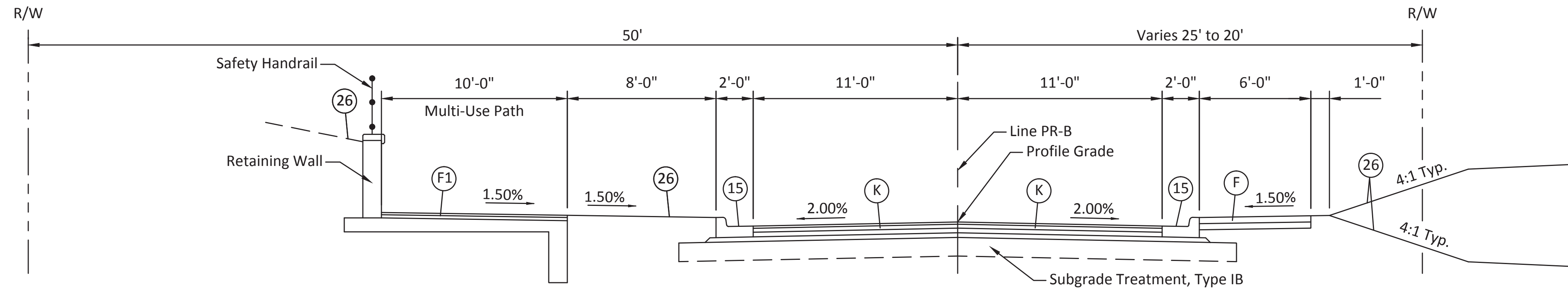


RECOMMENDED FOR APPROVAL	<i>Brad S. Farris</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: BSF	CHECKED: LAR	

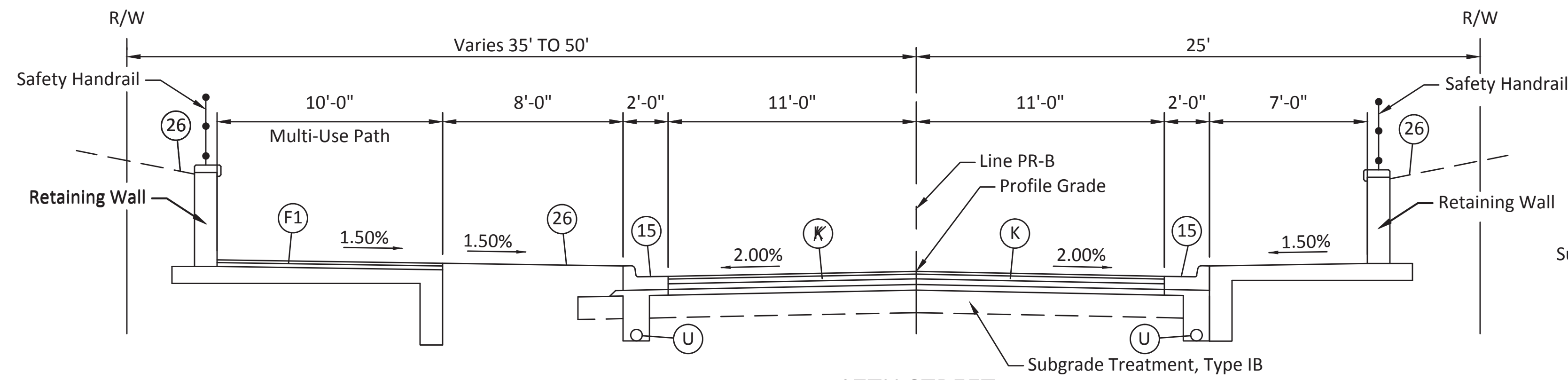
CITY OF BLOOMINGTON

INDEX SHEET

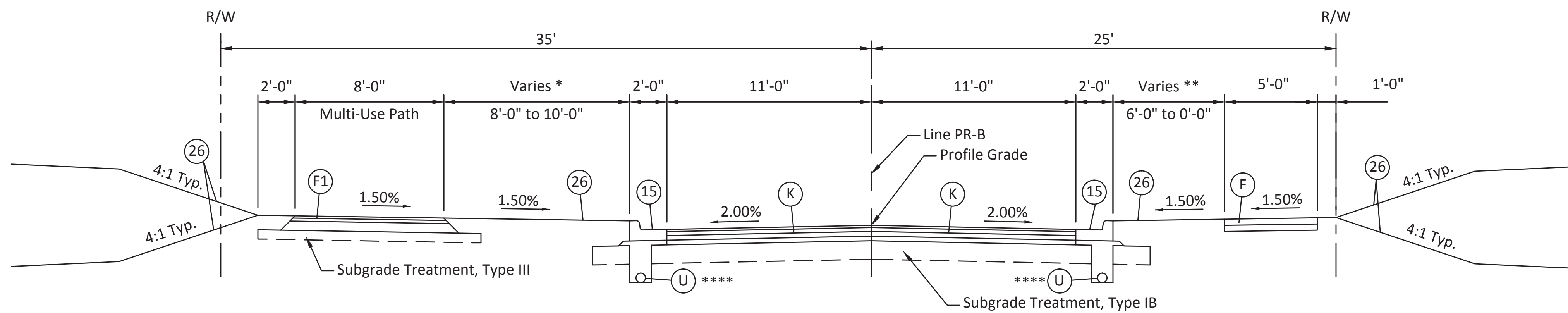
SCALE	BRIDGE FILE
NONE	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	2 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



17TH STREET
STA. 21+24.20 TO STA. 22+78.40 "PR-B"



17TH STREET
STA. 18+78.40 TO STA. 21+24.20 "PR-B"

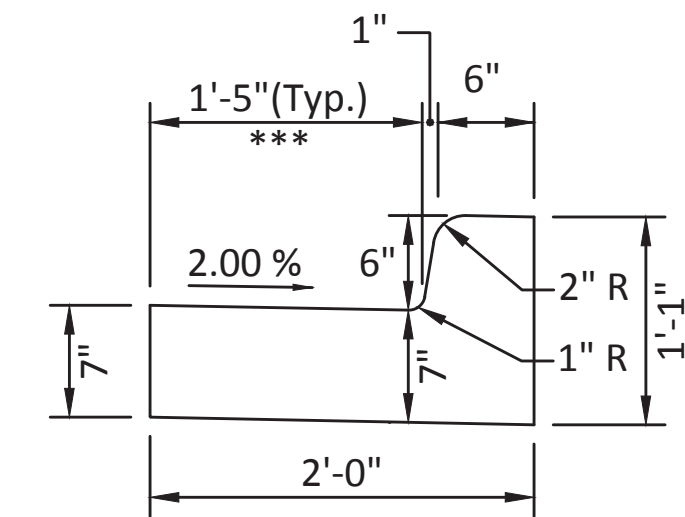


* 10'-0" Sta. 13+66.58 to Sta. 16+81.80
Varies 10'-0" Sta. 16+81.80 to 8'-0" Sta. 17+16.65
8'-0" Sta. 17+16.65 to Sta. 18+78.40

17TH STREET
STA. 13+66.58 TO STA. 18+78.40 "PR-B"

** 6'-0" Sta. 13+66.58 to Sta. 18+51.80
Varies 6'-0" Sta. 18+51.80 to 0'-0" Sta. 18+94.80
**** Begin Underdrain Installation
Sta. 18+40.00

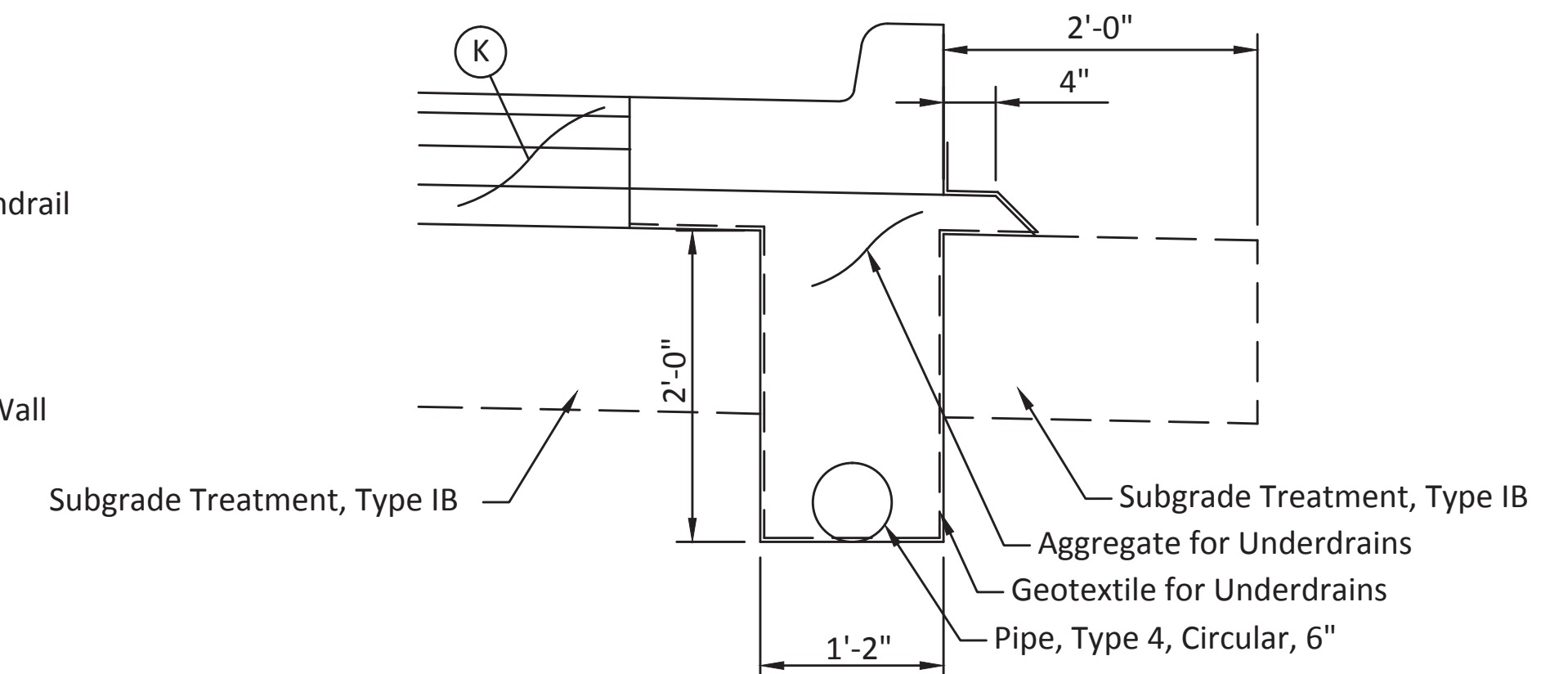
NOTE: PROPOSED RIGHT-OF-WAY SHOWN WHERE APPLICABLE. SEE PLANS FOR LOCATION OF EXISTING RIGHT-OF-WAY AND PROPOSED TEMPORARY RIGHT-OF-WAY



*** Gutter Pan Width Varies
Varies 1'-5" Sta. 15+99.80 Rt. to 0'-0" Sta. 16+29.80 Rt.
Varies 1'-5" Sta. 16+12.20 Lt. to 0'-0" Sta. 16+29.80 Lt.
Varies 0'-0" Sta. 16+53.80 Rt. to 1'-5" Sta. 16+68.30 Rt.
Varies 0'-0" Sta. 16+53.80 Lt. to 1'-5" Sta. 16+83.80 Lt.

MODIFIED COMBINED CONCRETE CURB AND GUTTER

Scale: 1' = 1'-0"



UNDERDRAIN DETAIL

Scale: 1' = 1'-0"

LEGEND

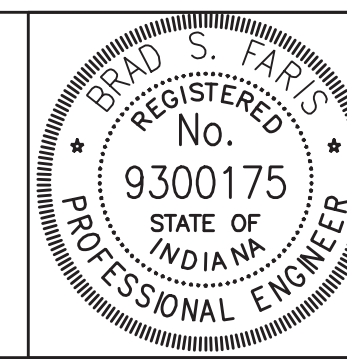
- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: 140 #/SYS HMA Surface, Type A on 220 #/SYS HMA Intermediate, Type A on 6" Compacted Aggregate, No. 53, Base
- (K) Full Depth HMA Pavement: 165 #/SYS QC/QA HMA, 2, 70, Surface 9.5mm on 275 #/SYS QC/QA HMA, 2, 70, Intermediate 19.0mm on 330 #/SYS QC/QA HMA, 2, 64, Base 25.0mm on 3" Compacted Aggregate, No. 53, Base
- (U) 6" Underdrain
- (13) Concrete Curb
- (15) Combined Concrete Curb and Gutter, Modified
- (26) Sodding, Nursery

NOTE:

For Legend Item (F1) when on Retaining Wall Footings the Compacted aggregate layer is to be omitted.

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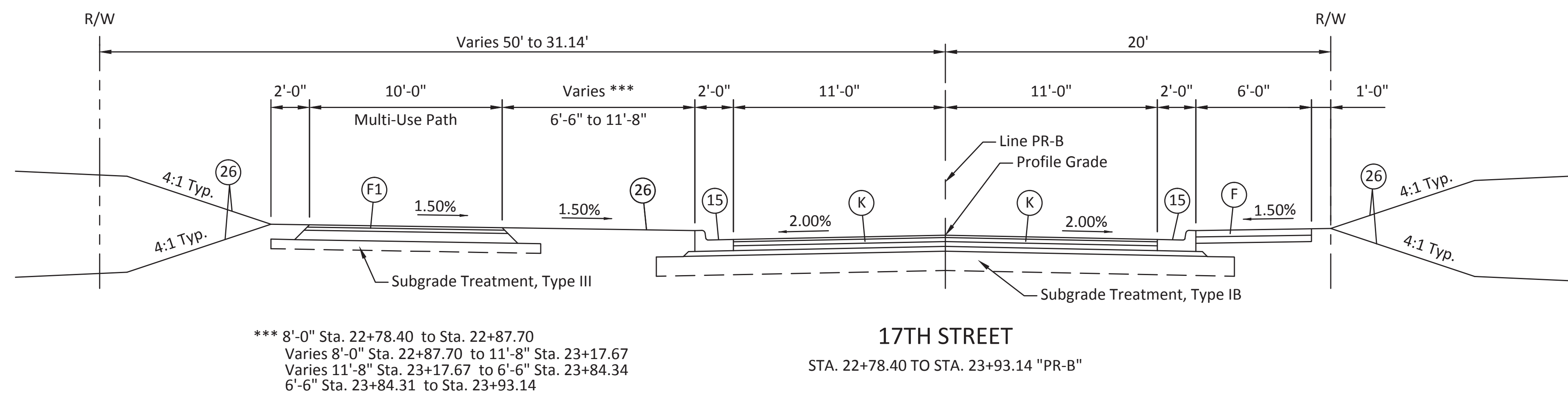
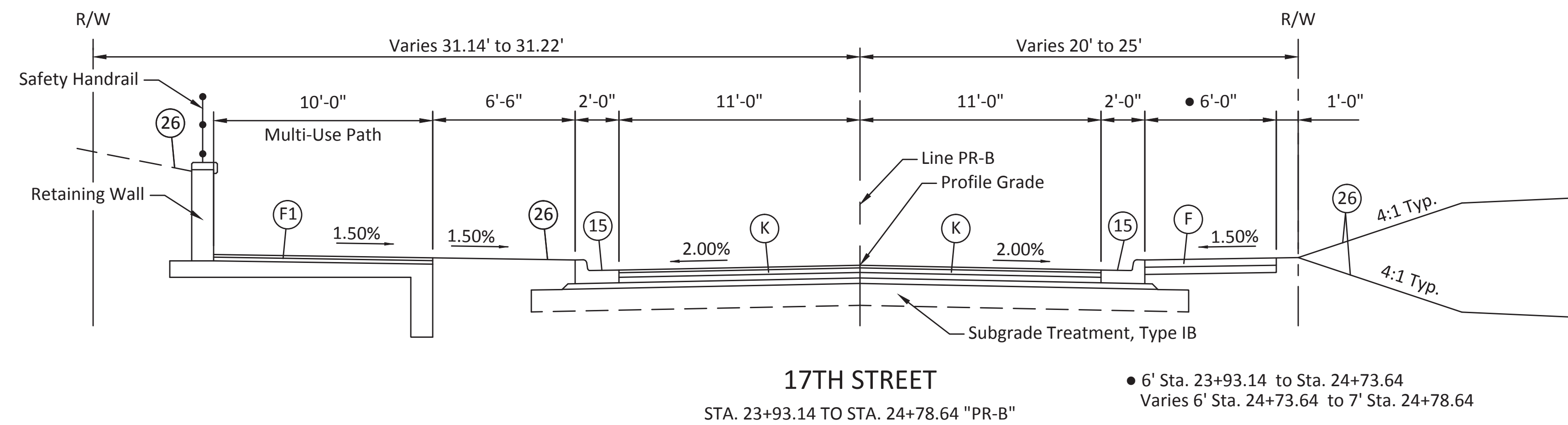
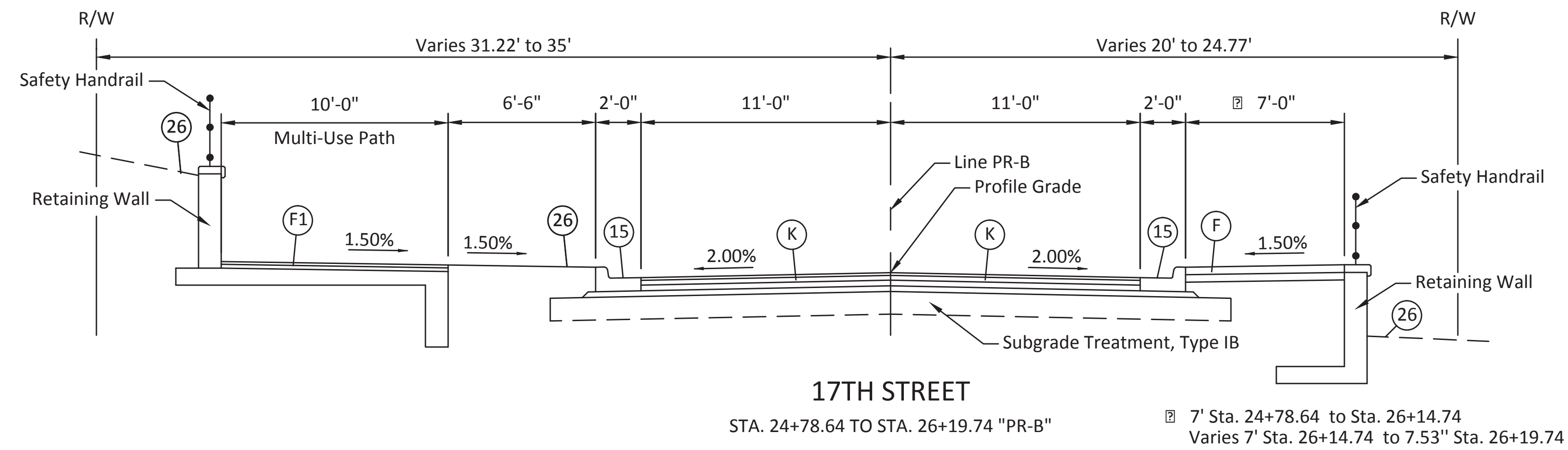
RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/2018
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

TYPICAL SECTIONS

SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	3 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

NOTE: PROPOSED RIGHT-OF-WAY SHOWN WHERE APPLICABLE. SEE PLANS FOR LOCATION OF EXISTING RIGHT-OF-WAY AND PROPOSED TEMPORARY RIGHT-OF-WAY



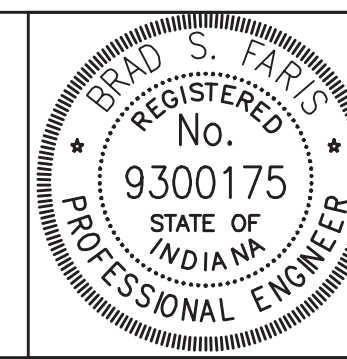
LEGEND

- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: 140 #/SYS HMA Surface, Type A on 220 #/SYS HMA Intermediate, Type A on 6" Compacted Aggregate, No. 53, Base
- (K) Full Depth HMA Pavement: 165 #/SYS QC/QA HMA, 2, 70, Surface 9.5mm on 275 #/SYS QC/QA HMA, 2, 70, Intermediate 19.0mm on 330 #/SYS QC/QA HMA, 2, 64, Base 25.0mm on 3" Compacted Aggregate, No. 53, Base
- (13) Concrete Curb
- (15) Combined Concrete Curb and Gutter, Modified
- (26) Sodding, Nursery

NOTE:
 For Legend Item (F1) when on Retaining Wall Footings the Compacted aggregate layer is to be omitted.

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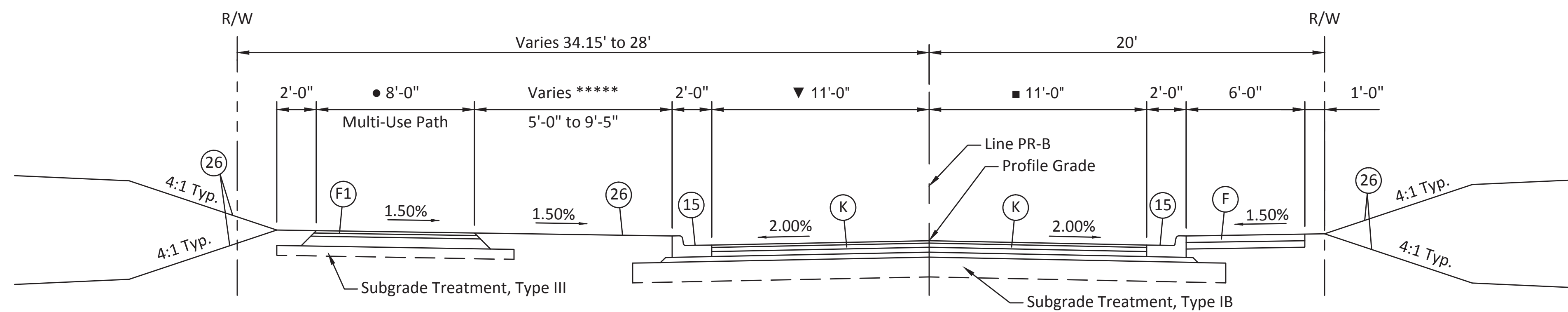


RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/2018
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON
TYPICAL SECTIONS

SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	4 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

NOTE: PROPOSED RIGHT-OF-WAY SHOWN WHERE APPLICABLE. SEE PLANS FOR LOCATION OF EXISTING RIGHT-OF-WAY AND PROPOSED TEMPORARY RIGHT-OF-WAY



***** Varies 6'-1" Sta. 27+79.75 to 6'-11" Sta. 27+96.64
 Varies 6'-11" Sta. 27+96.64 to 5'-0" Sta. 28+31.55
 5'-0" Sta. 28+31.55 to Sta. 29+89.34
 Varies 5'-0" Sta. 29+89.34 to 9'-5" Sta. 30+76.41
 Varies 9'-5" Sta. 30+76.41 to 8'-4" Sta. 31+00.00

● Varies 9.15' Sta. 27+79.75 to 8' Sta. 27+96.07
 8' Sta. 27+96.07 to Sta. 31+00.00

17TH STREET

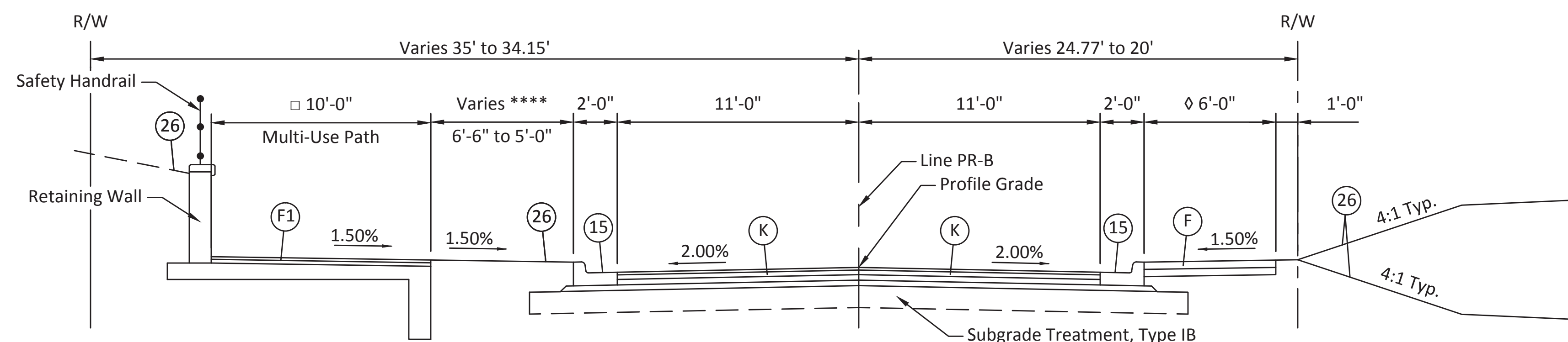
STA. 27+79.75 TO STA. 31+00.00 "PR-B"

▼ 11' Sta. 27+79.75 to Sta. 30+31.87
 Varies 11' Sta. 30+31.87 to 12' Sta. 30+76.46
 Varies 12' Sta. 30+76.46 to 12.18' Sta. 31+00.00

■ 11' Sta. 27+79.75 to Sta. 30+31.87
 Varies 11' Sta. 30+31.87 to 12' Sta. 30+76.46
 Varies 12' Sta. 30+76.46 to 12.07' Sta. 30+89.41
 Varies 12.07' Sta. 30+89.41 to 11.89' Sta. 31+00.00

LEGEND

- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: 140 #/SYS HMA Surface, Type A on 220 #/SYS HMA Intermediate, Type A on 6" Compacted Aggregate, No. 53, Base
- (K) Full Depth HMA Pavement: 165 #/SYS QC/QA HMA, 2, 70, Surface 9.5mm on 275 #/SYS QC/QA HMA, 2, 70, Intermediate 19.0mm on 330 #/SYS QC/QA HMA, 2, 64, Base 25.0mm on 3" Compacted Aggregate, No. 53, Base
- (13) Concrete Curb
- (15) Combined Concrete Curb and Gutter, Modified
- (26) Sodding, Nursery



**** Varies 6'-6" Sta. 26+18.50 to 5'-0" Sta. 26+43.72
 5'-0" Sta. 26+43.72 to Sta. 27+67.95
 Varies 5'-0" Sta. 27+67.95 to 6'-1" Sta. 27+79.75

□ 10' Sta. 26+19.74 to Sta. 27+67.95
 Varies 10' Sta. 27+67.95 to 9.15' Sta. 27+79.75

17TH STREET

STA. 26+19.74 TO STA. 27+79.75 "PR-B"

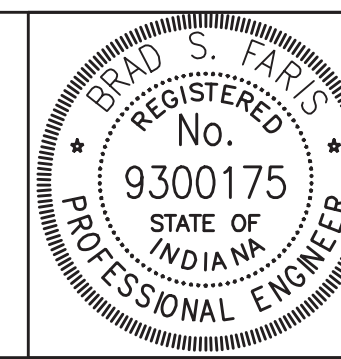
◇ Varies 7.53' Sta. 26+19.74 to 6' Sta. 26+72.70
 6' Sta. 26+72.70 to Sta. 27+79.75

NOTE:

For Legend Item (F1) when on Retaining Wall Footings the Compacted aggregate layer is to be omitted.

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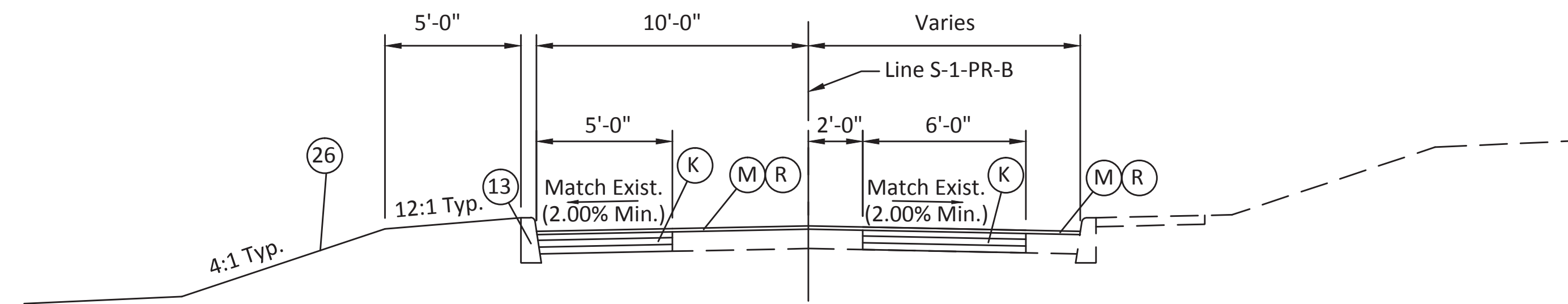
RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/2018
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

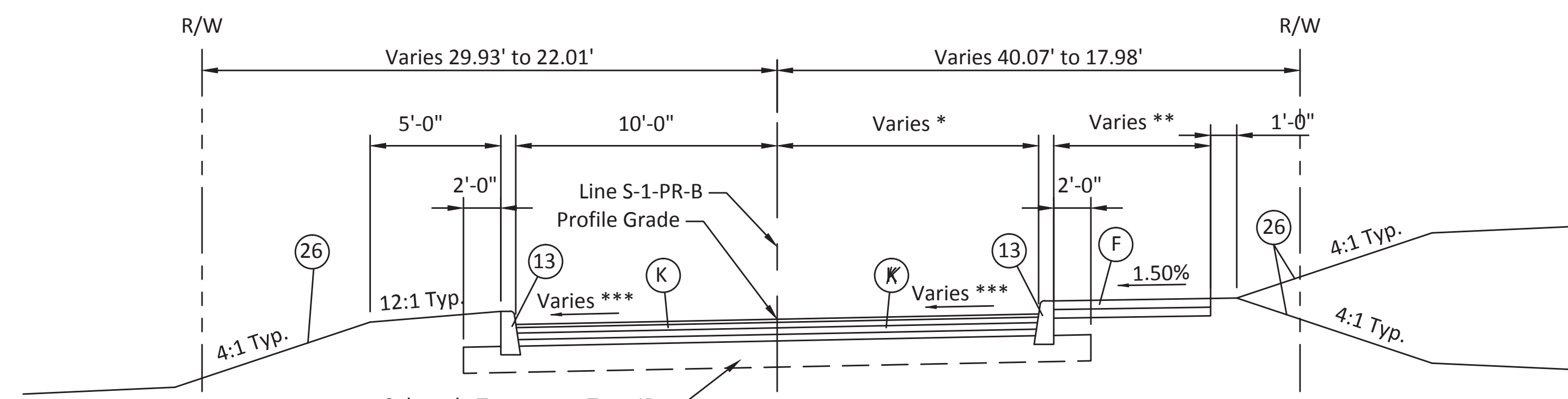
TYPICAL SECTIONS

SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	5 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

NOTE: PROPOSED RIGHT-OF-WAY SHOWN WHERE APPLICABLE. SEE PLANS FOR LOCATION OF EXISTING RIGHT-OF-WAY AND PROPOSED TEMPORARY RIGHT-OF-WAY



LINDBERGH DRIVE
STA. 101+12.76 TO STA. 102+68.53 "S-1-PR-B"



LINDBERGH DRIVE
STA. 100+11.00 TO STA. 101+12.76 "S-1-PR-B"

* 16'-0" Sta. 100+11 to Sta. 100+43.86
Varies 16'-0" Sta. 100+43.86 to 10'-5" Sta. 100+99.30
10'-5" Sta. 100+99.30 to Sta. 101+12.76

** 6'-0" Sta. 100+11 to Sta. 100+99.30
Varies 6'-0" Sta. 100+99.30 to 4'-0" Sta. 100+12.76

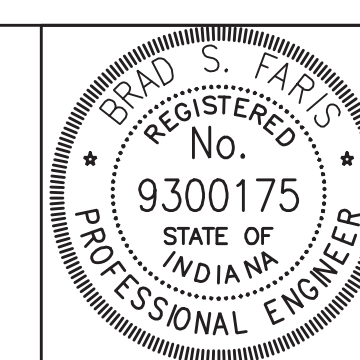
*** See Spot Elevation Detail Sheet

LEGEND

- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk:
140 #/SYS HMA Surface, Type A on 220 #/SYS HMA Intermediate, Type A on 6" Compacted Aggregate, No. 53, Base
- (K) Full Depth HMA Pavement:
165 #/SYS QC/QA HMA, 2, 70, Surface 9.5mm on 275 #/SYS QC/QA HMA, 2, 70, Intermediate 19.0mm on 330 #/SYS QC/QA HMA, 2, 64, Base 25.0mm on 3" Compacted Aggregate, No. 53, Base
- (M) Milling, Asphalt, 1 1/2 in.
- (R) 165 #/SYS QC/QA HMA, 2, 70, Surface 9.5 mm
- (13) Concrete Curb
- (15) Combined Concrete Curb and Gutter, Modified
- (26) Sodding, Nursery

PLOTTED: Friday, December 21, 2018 11:20:58 AM

FILE: SHT_TYPSCT04.DWG



RECOMMENDED FOR APPROVAL	<i>Brad S. Fair</i>	12/28/2018
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON	
TYPICAL SECTIONS	

SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	6 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

SR 37 / I-69

MORRIS SUBDIVISION



SEC. 30, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

TRACT 3
SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

MORRIS RESUBDIVISION
OF LOT 4

SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

FIRST AMERICAN PROPERTIES, LLC

STATE OF INDIANA

FIRST AMERICAN PROPERTIES, LLC

CITY OF BLOOMINGTON

PAULA A. & BETTY L BAKER

SHELBY BLOOMINGTON, LLC

LOT 4B

ARLINGTON PARK PHASE I

LOT 2

ROGERS GROUP, INC

LOT 1

LINE "S-8-A"

10+00

APP SECTION LINE
& LINE "B"

15+00

17TH STREET

20+00

DUSTIN DEVITT

SEC. 31, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

CRESCENT ROAD

LOT 50
COMMON OPEN SPACE

LOT 2

CRESCENT POINTE
HOUSING PARTNERS, LP

LOT 1 LOT 44 LOT 45
CRESCENT POINTE
HOUSING PARTNERS, LP

LOT 46
COMMON OPEN SPACE

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

TEMP R/W
LOT 31

LOT 32

LOT 33

LISMORE DRIVE

TEMP R/W
LOT 30

LOT 29

LOT 28

PLATTED ALLEY

LOT 49 - COMMON SPACE / DRAINAGE EASEMENT

CRESCENT POINTE
HOUSING PARTNERS, LP

R/W
LOT 20

OCS DEVELOPMENT, LLC

TEMP R/W

FOREST HOMES
ADDITION

LOT 19

LOT 18

TEMP R/W

MARY SUSANNAH STEWART

TEMP R/W

LOT 17

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

FIRST AMERICAN
PROPERTIES, LLC

R/W

TEMP R/W

R/W

TEMP R/W

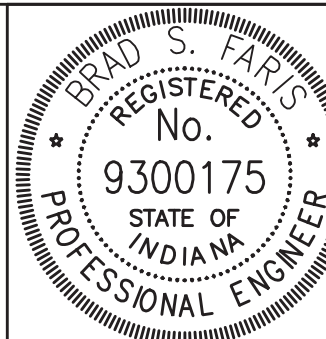
R/W

TEMP R/W

R/W

PLOTTED: Thursday, January 03, 2019 2:17:58 PM

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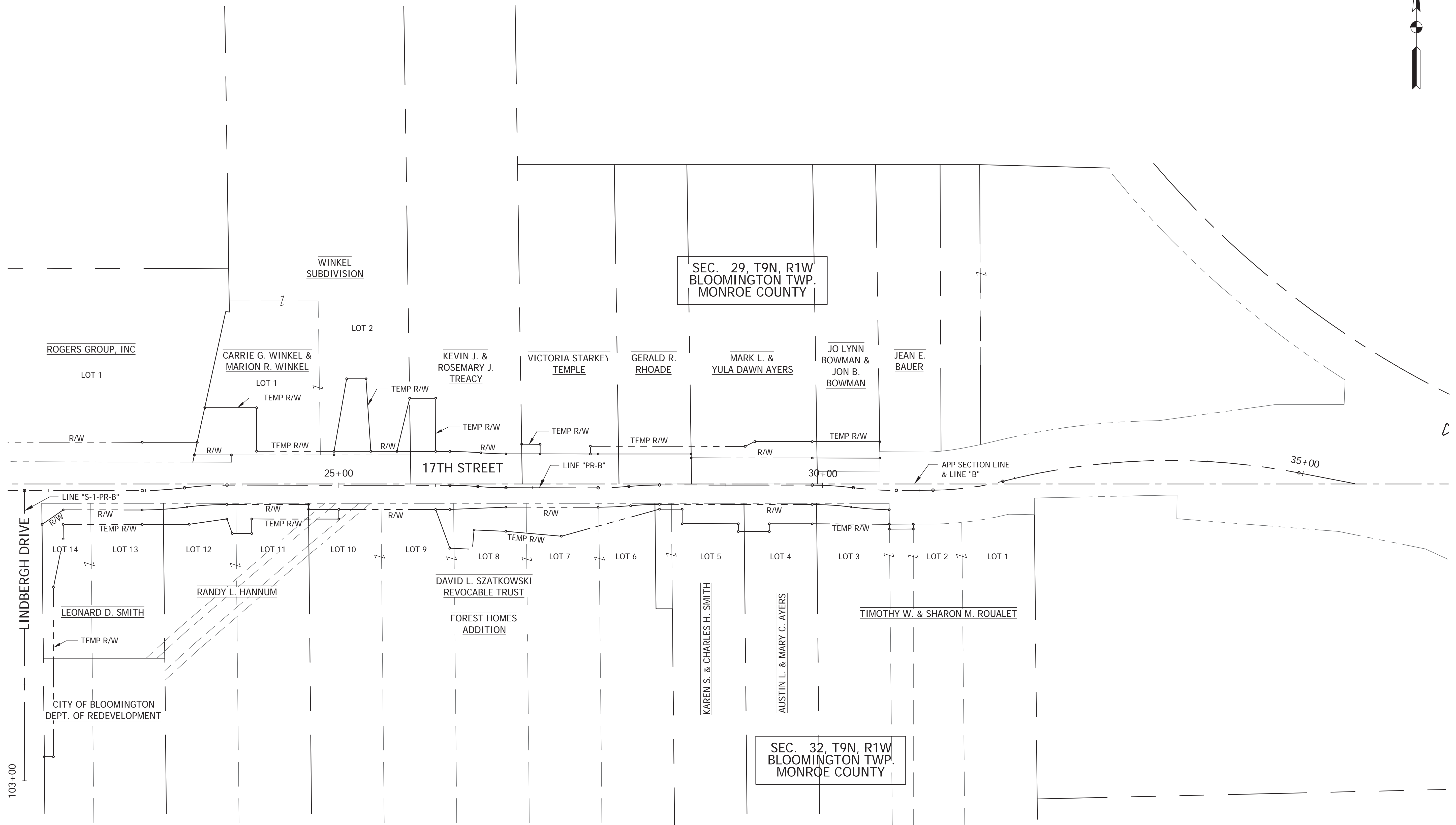
RECOMMENDED FOR APPROVAL *Brad S Farris* 12/28/2018
DESIGN ENGINEER DATE

DESIGNED: BSF DRAWN: BSF
CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON

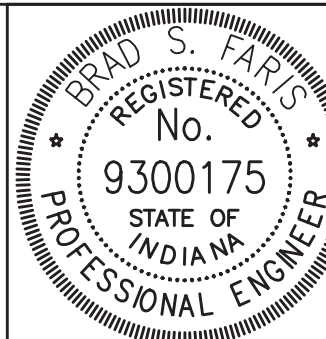
PLAT NO. 1

SCALE	BRIDGE FILE
1"=50'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	7 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLOTTED: Friday, December 21, 2018 11:27:29 AM

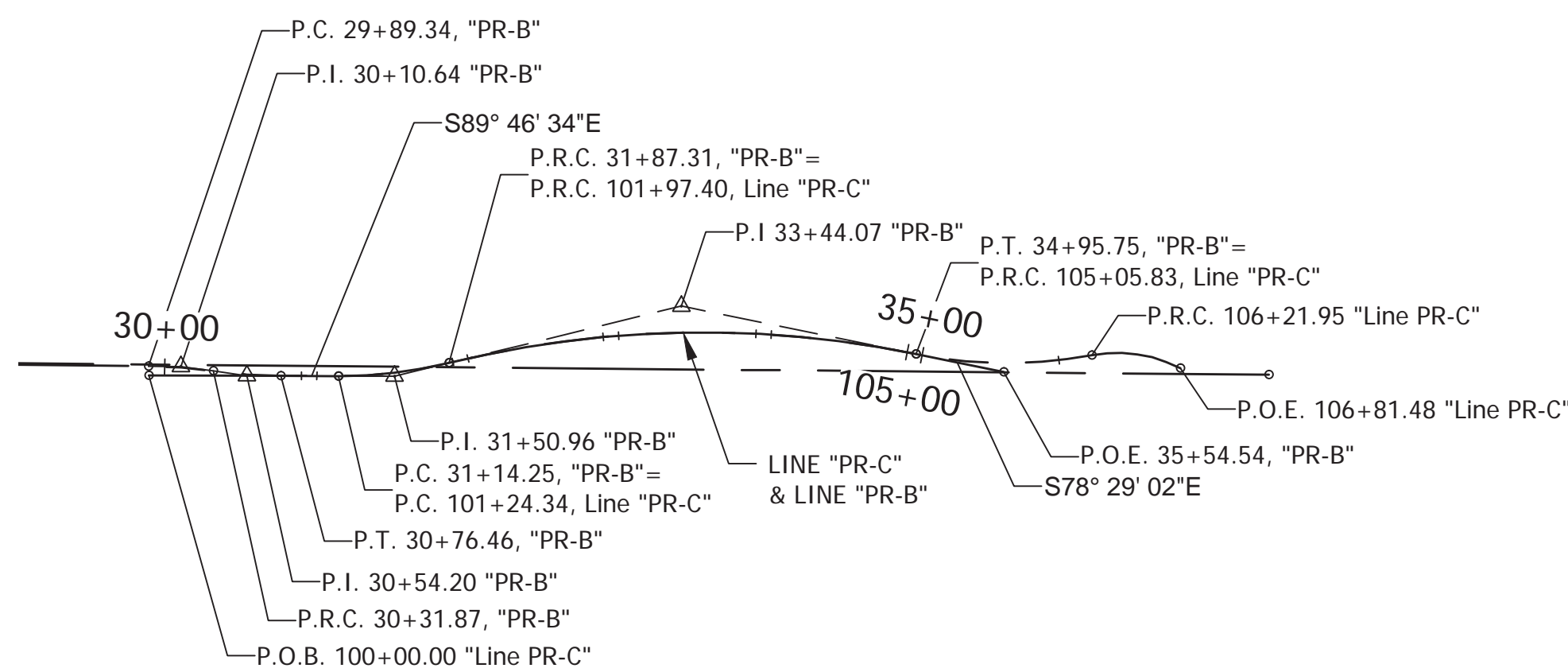
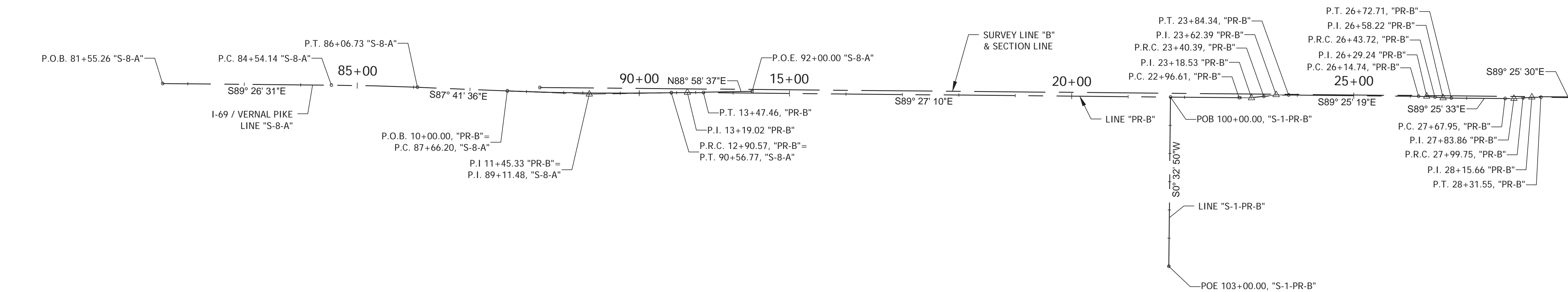
FILE: SHT_PLAT2.DWG



RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON	
PLAT NO. 1	

SCALE	BRIDGE FILE
1"=50'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	8 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

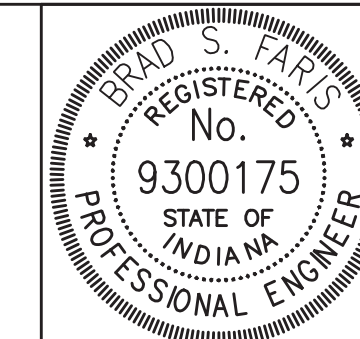
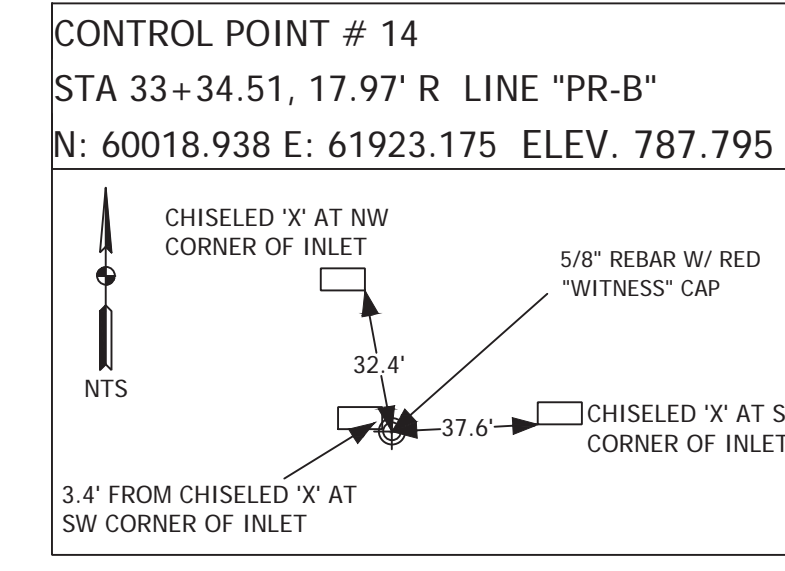
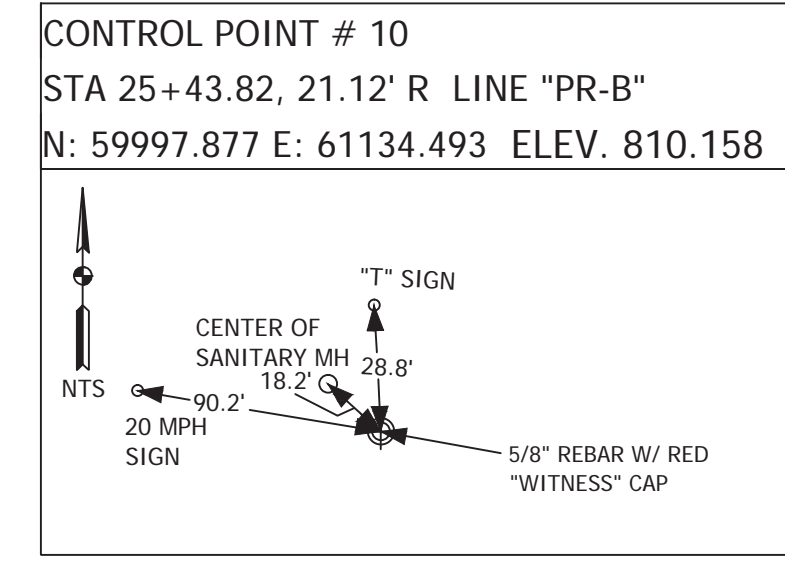
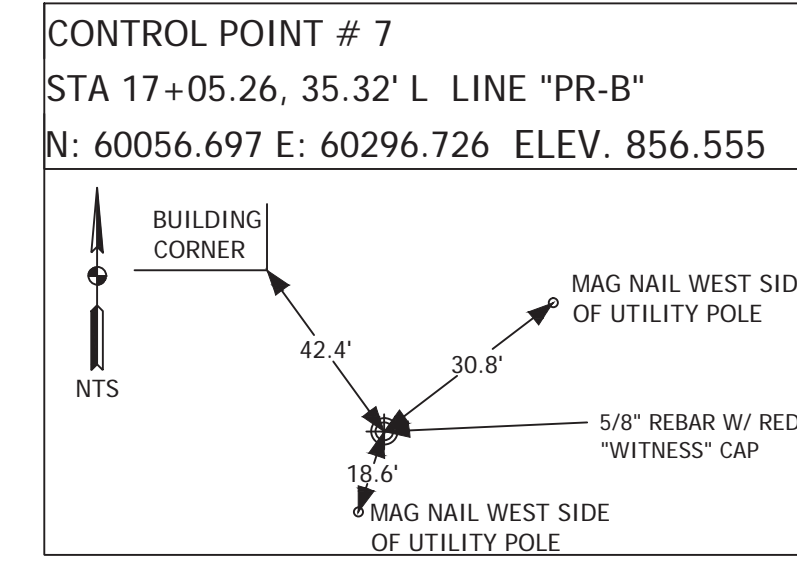
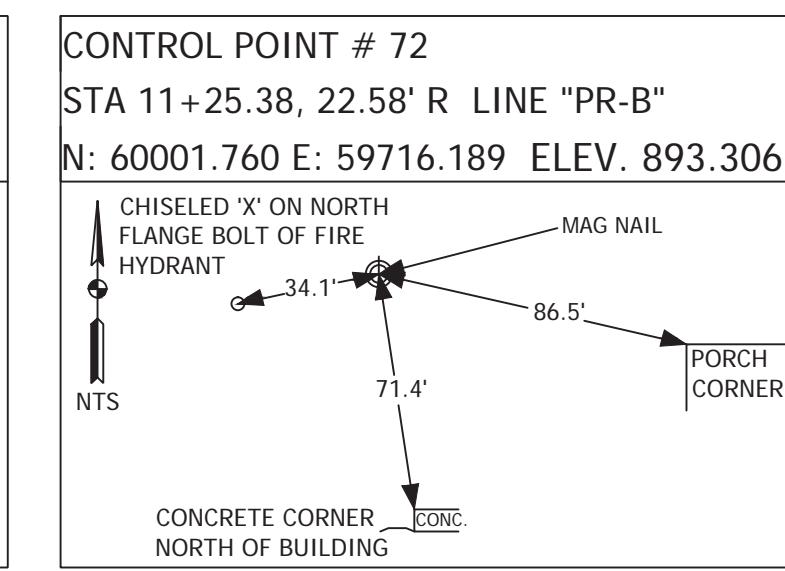
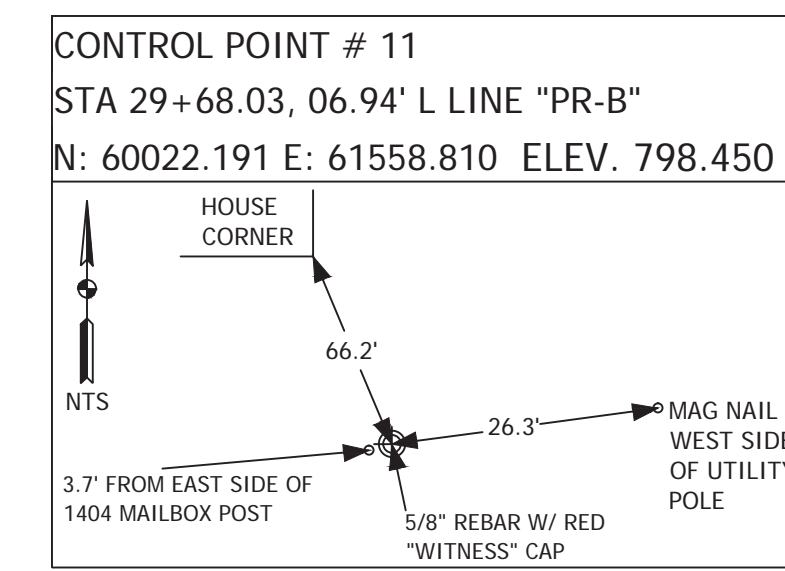
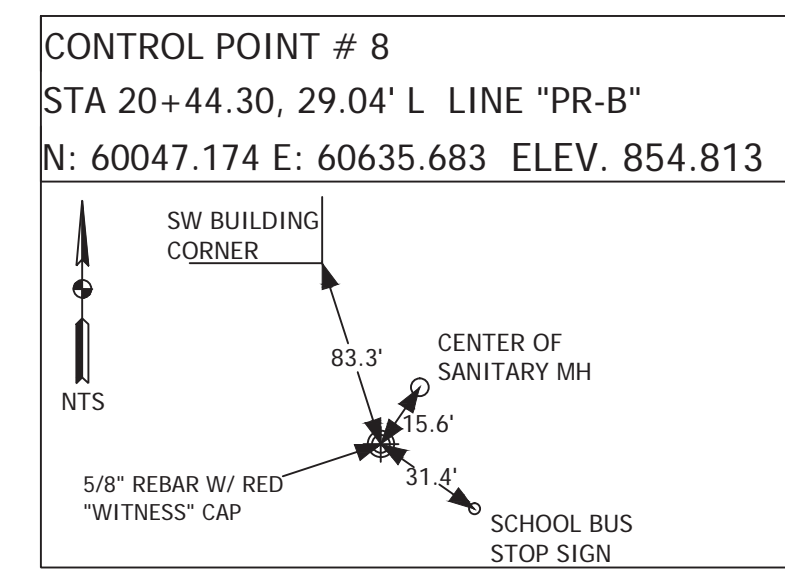
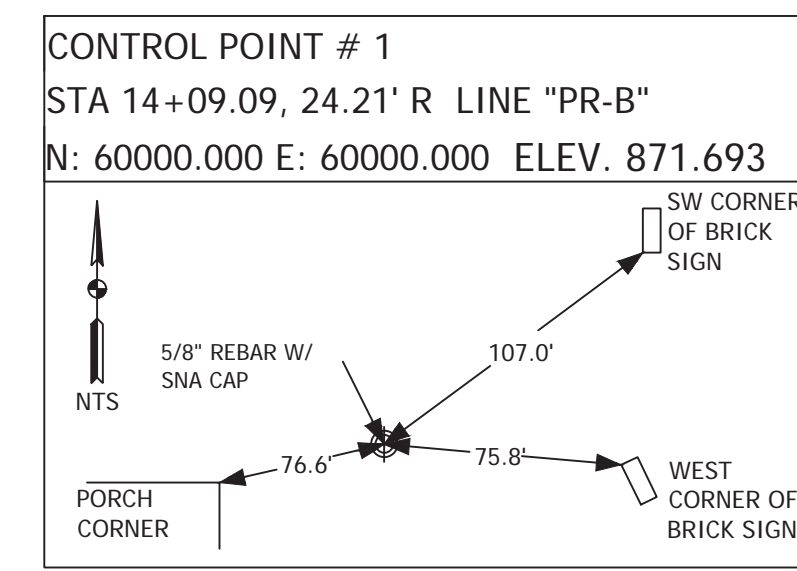


LINE "PR-C"		
ALIGNMENT STATION	NORTHING	EASTING
P.O.B. 100+00.00	60009.1134	61580.3312
P.C. 101+24.34	60008.6277	61704.6674
P.R.C. 101+97.40	60017.1981	61777.0437
P.R.C. 105+05.83	60023.1080	62082.9332
P.R.C. 106+21.95	60022.2470	62198.3225
P.O.E. 106+81.48	60013.8210	62256.1629

CURVE DATA		CURVE DATA		CURVE DATA		CURVE DATA		CURVE DATA			
P.I. Sta. 11+45.33 "PR-B"	N= 60,021.9643 E= 59,736.4100	P.I. Sta. 13+19.02 "PR-B"	N= 60,025.0670 E= 59,910.1545	P.I. Sta. 23+18.53	N= 60,015.5200 E= 60,909.6261	P.I. Sta. 23+62.39	N= 60,020.8272 E= 60,953.2305	P.I. Sta. 26+29.24	N= 60,018.1347 E= 61,220.1251		
MAIN CURVE	$\Delta = 03^{\circ}19'47"$ R= 5000.00' L= 290.57' T= 145.33' EXT= 2.11' SUPER= N/C	MAIN CURVE	$\Delta = 01^{\circ}34'13"$ R= 2075.62' L= 56.89' T= 28.45' EXT= 0.20' SUPER= N/C	MAIN CURVE	$\Delta = 07^{\circ}29'12"$ R= 335.00' L= 43.77' T= 21.92' EXT= 0.72' SUPER= N/C	MAIN CURVE	$\Delta = 07^{\circ}31'03"$ R= 335.00' L= 43.95' T= 22.01' EXT= 0.72' SUPER= N/C	MAIN CURVE	$\Delta = 04^{\circ}57'18"$ R= 335.00' L= 28.97' T= 14.50' EXT= 0.31' SUPER= N/C	MAIN CURVE	$\Delta = 04^{\circ}57'18"$ R= 335.00' L= 28.97' T= 14.50' EXT= 0.31' SUPER= N/C

CURVE DATA		CURVE DATA		CURVE DATA		CURVE DATA		CURVE DATA			
P.I. Sta. 26+58.22	N= 60,015.3386 E= 61,248.9903	P.I. Sta. 27+83.86	N= 60,014.0794 E= 61,374.6440	P.I. Sta. 28+15.66	N= 60,016.7772 E= 61,406.3496	P.I. Sta. 30+10.64	N= 60,014.8205 E= 61,601.3399	P.I. Sta. 30+54.20	N= 60,008.8625 E= 61,644.5547		
MAIN CURVE	$\Delta = 04^{\circ}57'32"$ R= 335.00' L= 28.99' T= 14.51' EXT= 0.31' SUPER= N/C	MAIN CURVE	$\Delta = 05^{\circ}26'16"$ R= 335.00' L= 31.79' T= 15.91' EXT= 0.38' SUPER= N/C	MAIN CURVE	$\Delta = 07^{\circ}29'12"$ R= 335.00' L= 31.80' T= 15.91' EXT= 0.38' SUPER= N/C	MAIN CURVE	$\Delta = 07^{\circ}16'30"$ R= 335.00' L= 42.54' T= 21.30' EXT= 0.68' SUPER= N/C	MAIN CURVE	$\Delta = 07^{\circ}37'34"$ R= 335.00' L= 44.59' T= 22.33' EXT= 0.74' SUPER= N/C	MAIN CURVE	$\Delta = 07^{\circ}37'34"$ R= 335.00' L= 44.59' T= 22.33' EXT= 0.74' SUPER= N/C

LINE "S-8-A"		
ALIGNMENT STATION	NORTHING	EASTING
P.O.B. 81+55.26	60040.9565	58980.4591
P.C. 84+54.14	60038.0455	59279.3249
P.T. 86+06.73	60034.2314	59431.8613
P.C. 87+66.20	60027.8133	59591.2015
P.I. 89+11.53	60021.9633	59736.4547
P.T. 90+56.77	60024.5591	59881.7131
P.O.E. 92+00.00	60027.1165	60024.9202



RECOMMENDED FOR APPROVAL: *Brad S Farris* 12/28/2018
DESIGN ENGINEER DATE

DESIGNED: BSF DRAWN: BSF
CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON

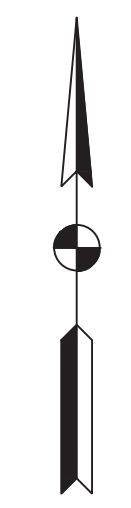
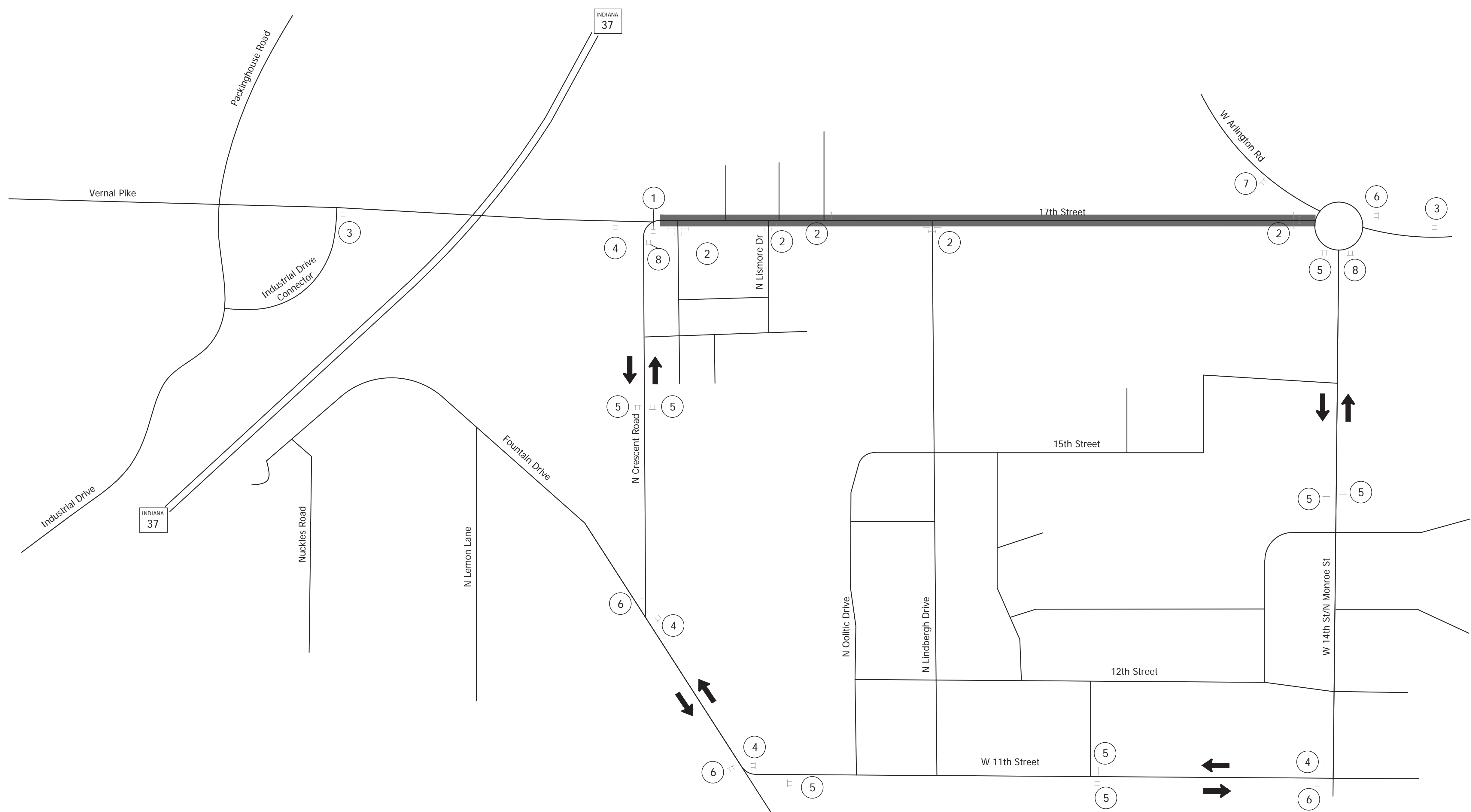
GEOMETRIC CONTROL
HORIZONTAL AND VERTICAL

SCALE	BRIDGE FILE
1"=100'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	9 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Friday, December 21, 2018 11:33:14 AM

PLOTTED: Thursday, December 27, 2018 9:07:34 AM

FILE: SHT_MOT.DWG



- LEGEND**
- Work Zone
 - Type III Barricade
 - Temporary Sign

- NOTES**
1. Distances shown are typical except minimum distances may be varied based on field conditions.
 2. See Standard Drawing E801-TCLG-01 for Standard Notes.
 3. Maintain Access to Existing Driveways.

<p>1</p> <p>R11-4 60"x30"</p>	<p>2</p> <p>R11-2 48"x30"</p>	<p>3</p> <p>W20-3 36"x36"</p>	<p>4</p> <p>M4-8 24"x12"</p> <p>17th STREET</p> <p>SPECIAL BLK/WHT 24"x24"</p> <p>M6-1(R) 21"x15"</p>	<p>5</p> <p>M4-8 24"x12"</p> <p>17th STREET</p> <p>SPECIAL BLK/WHT 24"x24"</p> <p>M6-3 21"x15"</p>	<p>6</p> <p>M4-8 24"x12"</p> <p>17th STREET</p> <p>SPECIAL BLK/WHT 24"x24"</p> <p>M6-1(L) 21"x15"</p>	<p>7</p> <p>W20-2 36"x36"</p>	<p>8</p> <p>M4-8 24"x12"</p> <p>17th STREET</p> <p>SPECIAL BLK/WHT 24"x24"</p>
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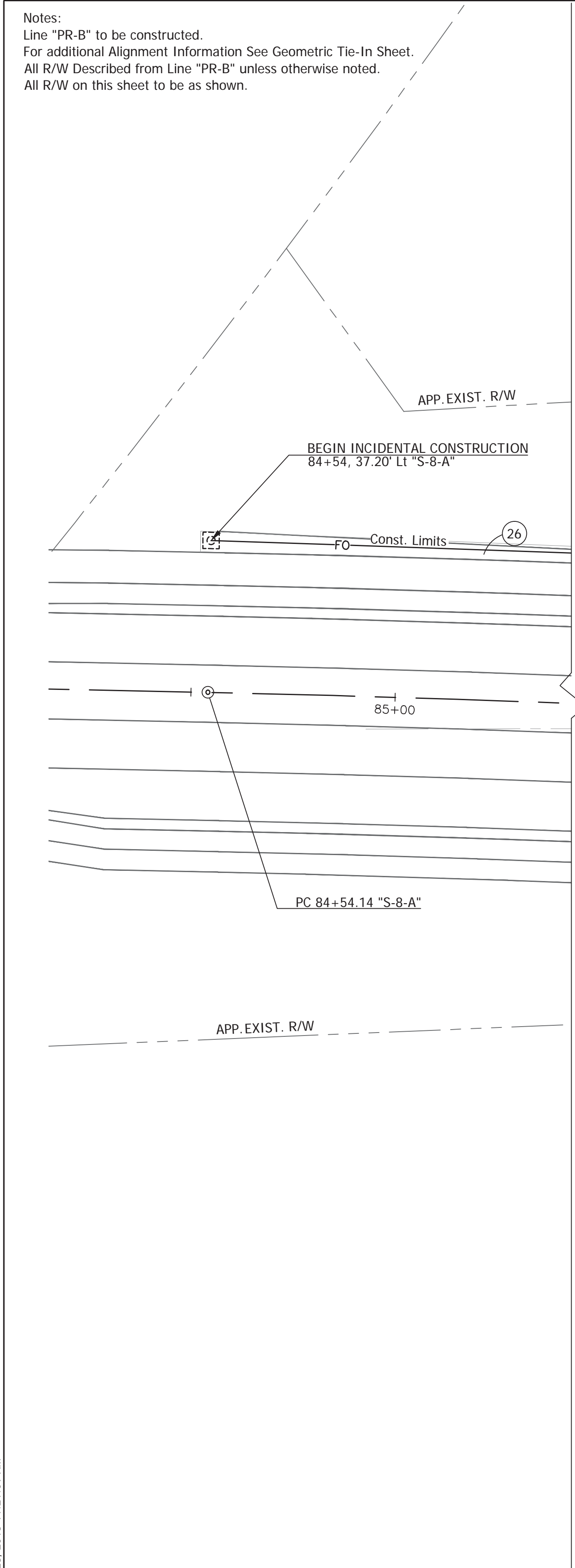
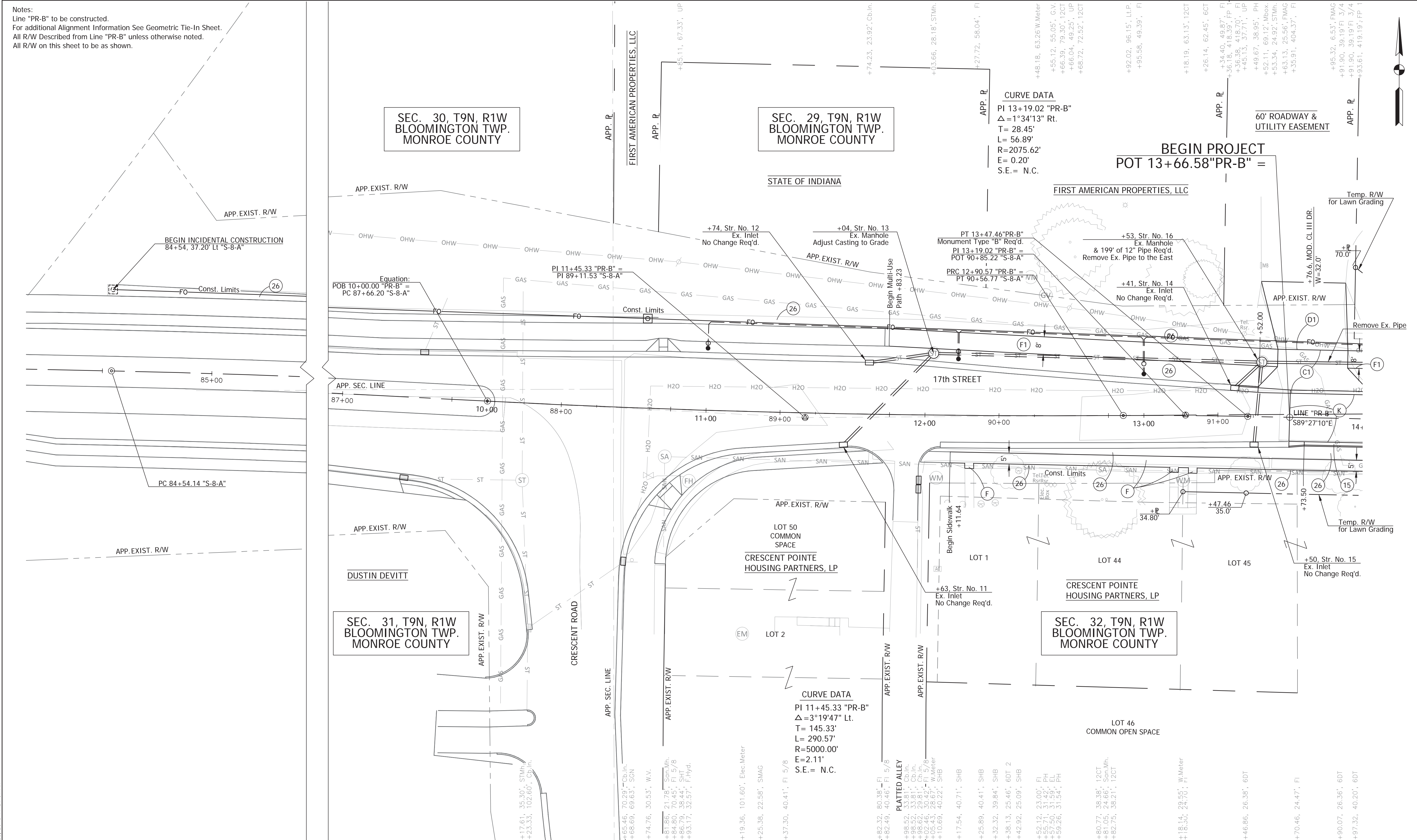


RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/2018
DESIGNED:	BSF	DRAWN:
CHECKED:	BSF	CHECKED:
		LAR

CITY OF BLOOMINGTON	
MAINTENANCE OF TRAFFIC 17TH STREET DETOUR	

SCALE	BRIDGE FILE
N.T.S.	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	10 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

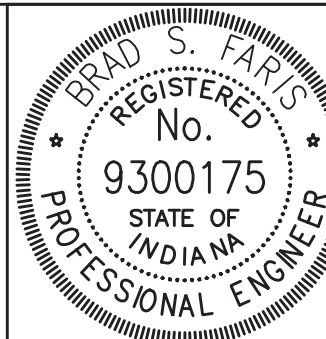
Notes:
 Line "PR-B" to be constructed.
 For additional Alignment Information See Geometric Tie-In Sheet.
 All R/W Described from Line "PR-B" unless otherwise noted.
 All R/W on this sheet to be as shown.



- (C1) PCCP for Approaches, 9 In. on Subgrade Treatment, Type II
- (D1) 1320 #/syd HMA for Approaches, Type B
 - 165 #/syd HMA Surface, Type B on
 - 275 #/syd HMA Intermediate, Type B on
 - 880 #/syd HMA Base, Type B on
 - Subgrade Treatment, Type II

- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: See Typical Section
- (K) Full Depth HMA Pavement: See Typical Section
- (15) Combined Concrete Curb and Gutter, Modified

(26) Sodding, Nursery



RECOMMENDED FOR APPROVAL
Brad S. Farris
 DESIGN ENGINEER
 12/28/2018
 DATE

DESIGNED: BSF
 CHECKED: BSF

DRAWN: BSF
 CHECKED: LAR

CITY OF BLOOMINGTON

PLAN DETAILS
 STA 10+00 TO STA 14+00

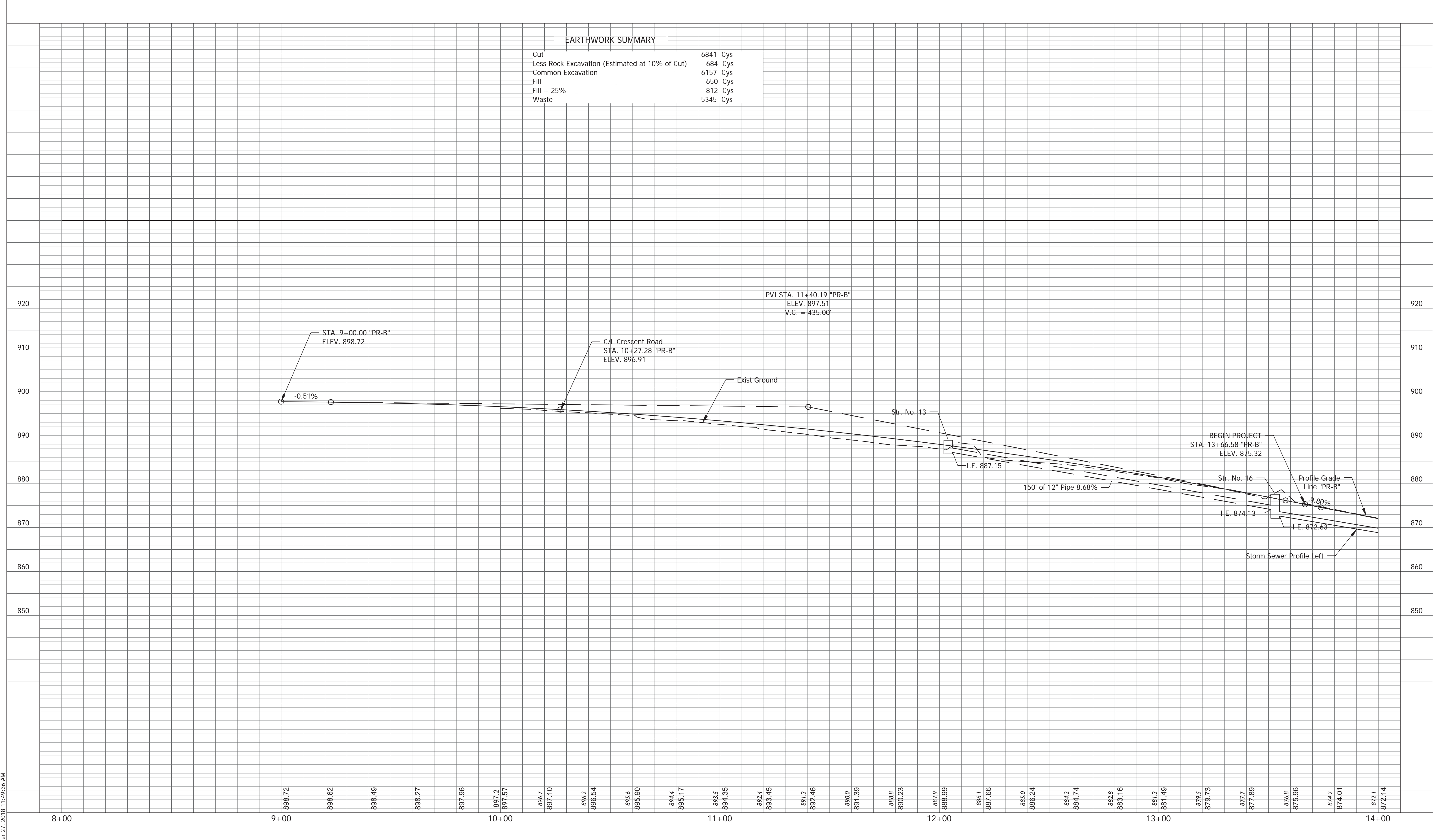
SCALE 1"=20'	BRIDGE FILE N/A
SURVEY BOOK N/A	DESIGNATION N/A
CONTRACT N/A	SHEETS 11 of 100
	PROJECT 17TH STREET RECONSTRUCTION

PLOTTED: Friday, December 28, 2018 11:21:09 AM

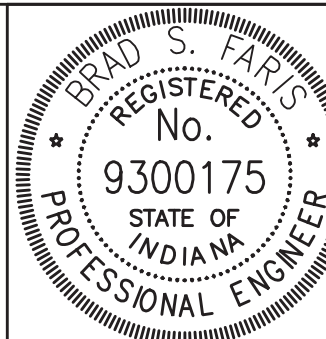
FILE: RD_PLAN_01.DWG

EARTHWORK SUMMARY

Cut	6841	Cys
Less Rock Excavation (Estimated at 10% of Cut)	684	Cys
Common Excavation	6157	Cys
Fill	650	Cys
Fill + 25% Waste	812	Cys
Waste	5345	Cys



PLOTTED: Thursday, December 27, 2018 11:49:36 AM



RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/2018
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

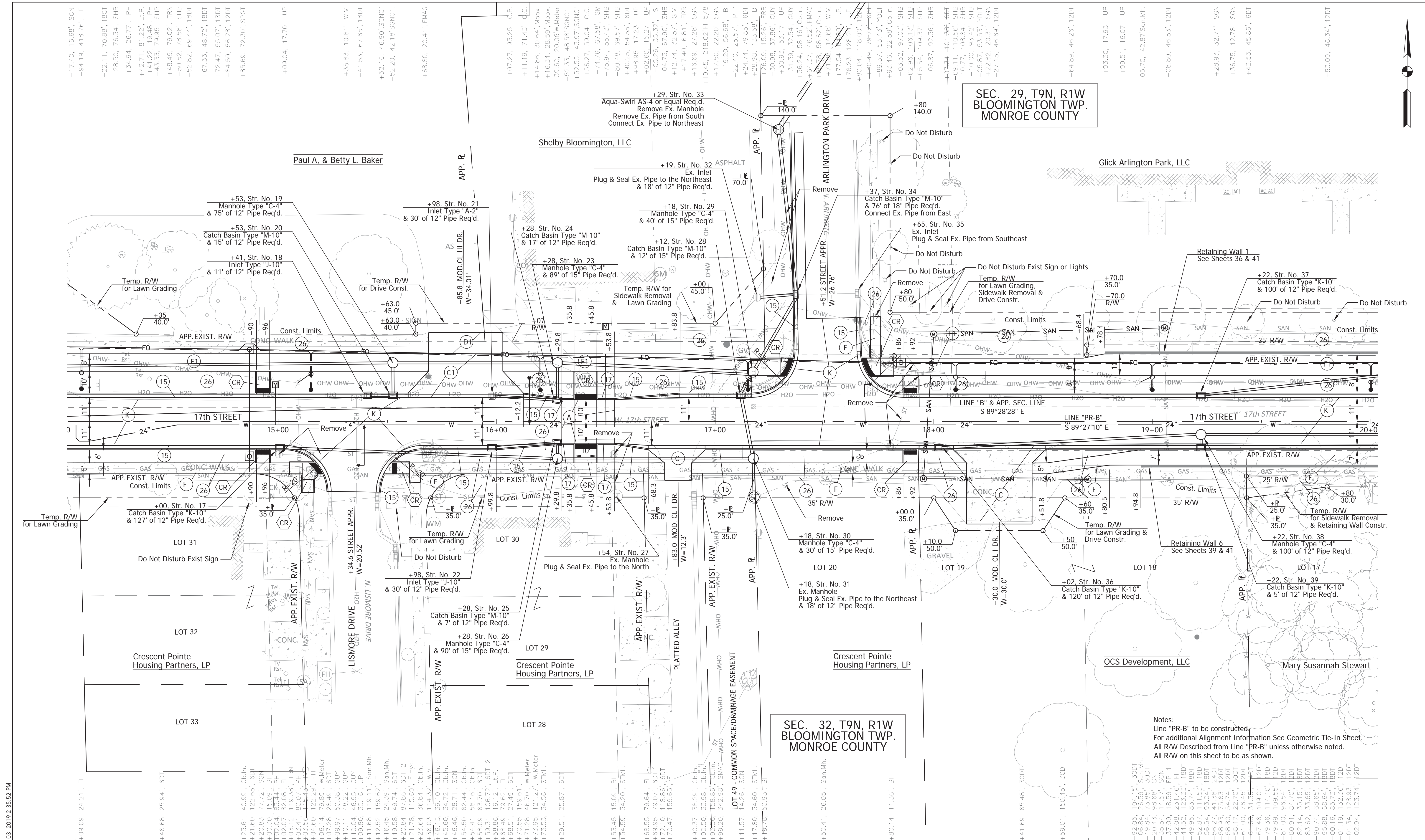
CITY OF BLOOMINGTON

PROFILE SHEET
STA. 8+00 TO STA. 14+00 - LINE "PR-B"

SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	12 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, January 03, 2019 2:35:52 PM

FILE: RD_PLAN_02.DWG



SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

Notes:
Line "PR-B" to be constructed.
For additional Alignment Information See Geometric Tie-In Sheet.
All R/W Described from Line "PR-B" unless otherwise noted.
All R/W on this sheet to be as shown.

- (A) Variable Depth Plain PCCP on 3" Compacted Aggregate No. 53, Base on Subgrade Treatment, Type IB
- (B) PCCP for Approaches, 6 In. on Subgrade Treatment, Type II
- (C) PCCP for Approaches, 9 In. on Subgrade Treatment, Type II
- (D1) 1320 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface, Type B on 275 #/syd HMA Intermediate, Type B on 880 #/syd HMA Base, Type B on Subgrade Treatment, Type II
- (D2) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (E1) HMA for Sidewalk: See Typical Section
- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (G) Full Depth HMA Pavement: See Typical Section
- (H) Concrete Curb Ramp
- (I) Concrete Curb
- (J) Combined Concrete Curb and Gutter, Modified
- (K) Integral Curb
- (L) Sodding, Nursery



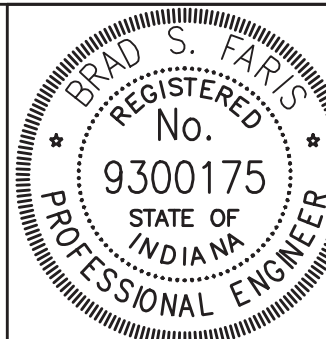
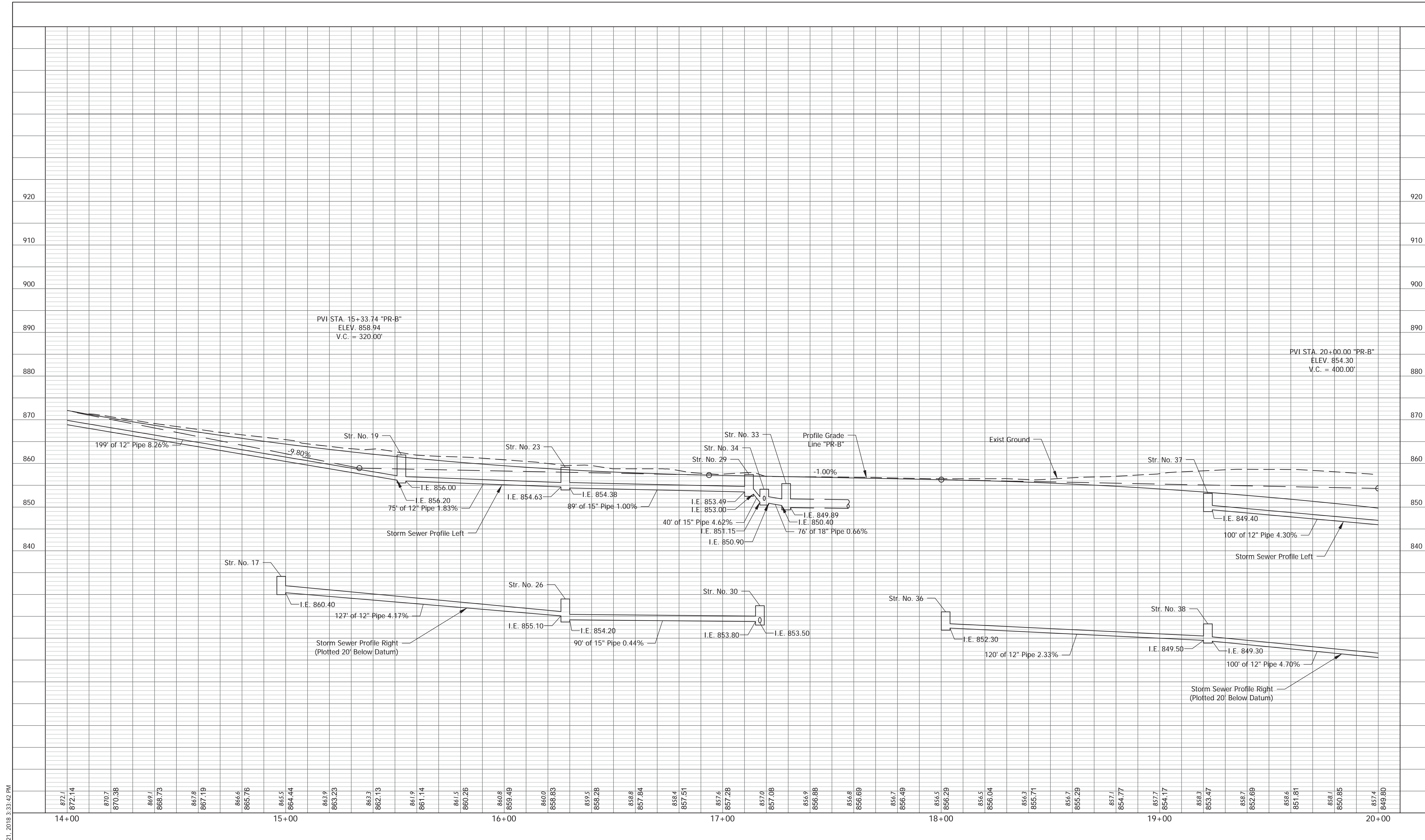
RECOMMENDED FOR APPROVAL	<i>Brad S. Farris</i>	12/28/2018
DESIGNED:	BSF	
CHECKED:	LAR	
DRAWN:	BSF	
CHECKED:	BSF	

CITY OF BLOOMINGTON	
PLAN DETAILS STA 14+00 TO STA 20+00	

SCALE	BRIDGE FILE
1"=20'	N/A
DESIGNATION	N/A
SURVEY BOOK	SHEETS
N/A	13 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Friday, December 21, 2018 3:33:42 PM

FILE: RD_PROFILE_02.DWG



RECOMMENDED FOR APPROVAL *Brad S. Paris* 12/28/2018
 DESIGN ENGINEER DATE

DESIGNED: BSF DRAWN: BSF
 CHECKED: BSF CHECKED: LAR

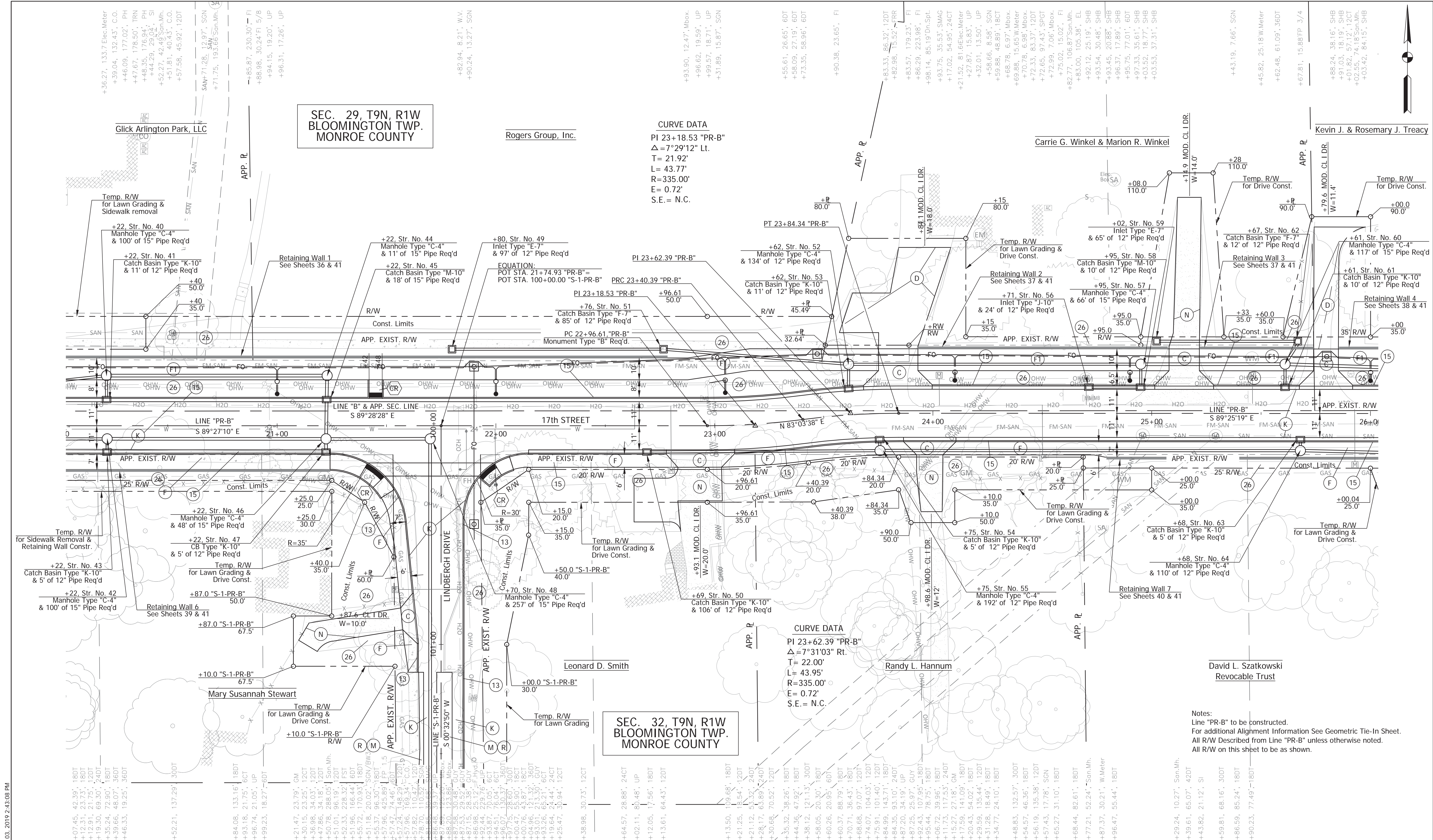
CITY OF BLOOMINGTON

PROFILE SHEET
 STA. 14+00 TO STA. 20+00 - LINE "PR-B"

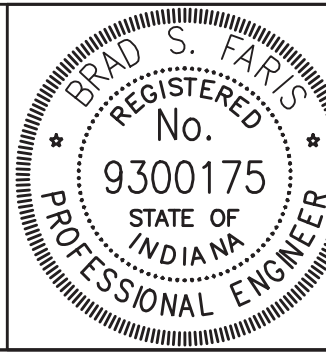
SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	14 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, January 03, 2019 2:45:08 PM

FILE: RD_PLAN_03.DWG



- (C) PCCP for Approaches, 6 In. on Subgrade Treatment, Type II
- (D) 550 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface, Type B on 385 #/syd HMA Intermediate, Type B on Subgrade Treatment, Type II
- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: See Typical Section
- (K) Full Depth HMA Pavement: See Typical Section
- (M) Milling, Asphalt, 1 1/2 in.
- (N) 6" Compacted Aggregate for Surface, No. 73
- (R) 165 #/SYD QC/QA-HMA, 2, 70, Surface 9.5 mm
- (13) Concrete Curb
- (15) Combined Concrete Curb & Gutter, Modified
- (26) Sodding, Nursery
- (CR) Concrete Curb Ramp



RECOMMENDED FOR APPROVAL	<i>Brad S. Farns</i>	DESIGN ENGINEER	12/28/2018	DATE
DESIGNED: BSF		DRAWN: BSF		
CHECKED: BSF		CHECKED: LAR		

CITY OF BLOOMINGTON	
PLAN DETAILS STA 20+00 TO STA 26+00	

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	15 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

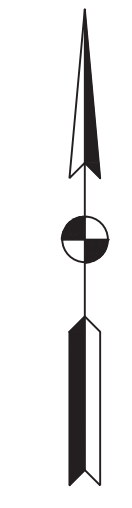
SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

CURVE DATA
PI 23+18.53 "PR-B"
Δ=7°29'12" Lt.
T= 21.92'
L= 43.77'
R=335.00'
E= 0.72'
S.E.= N.C.

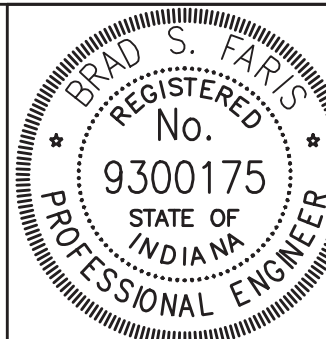
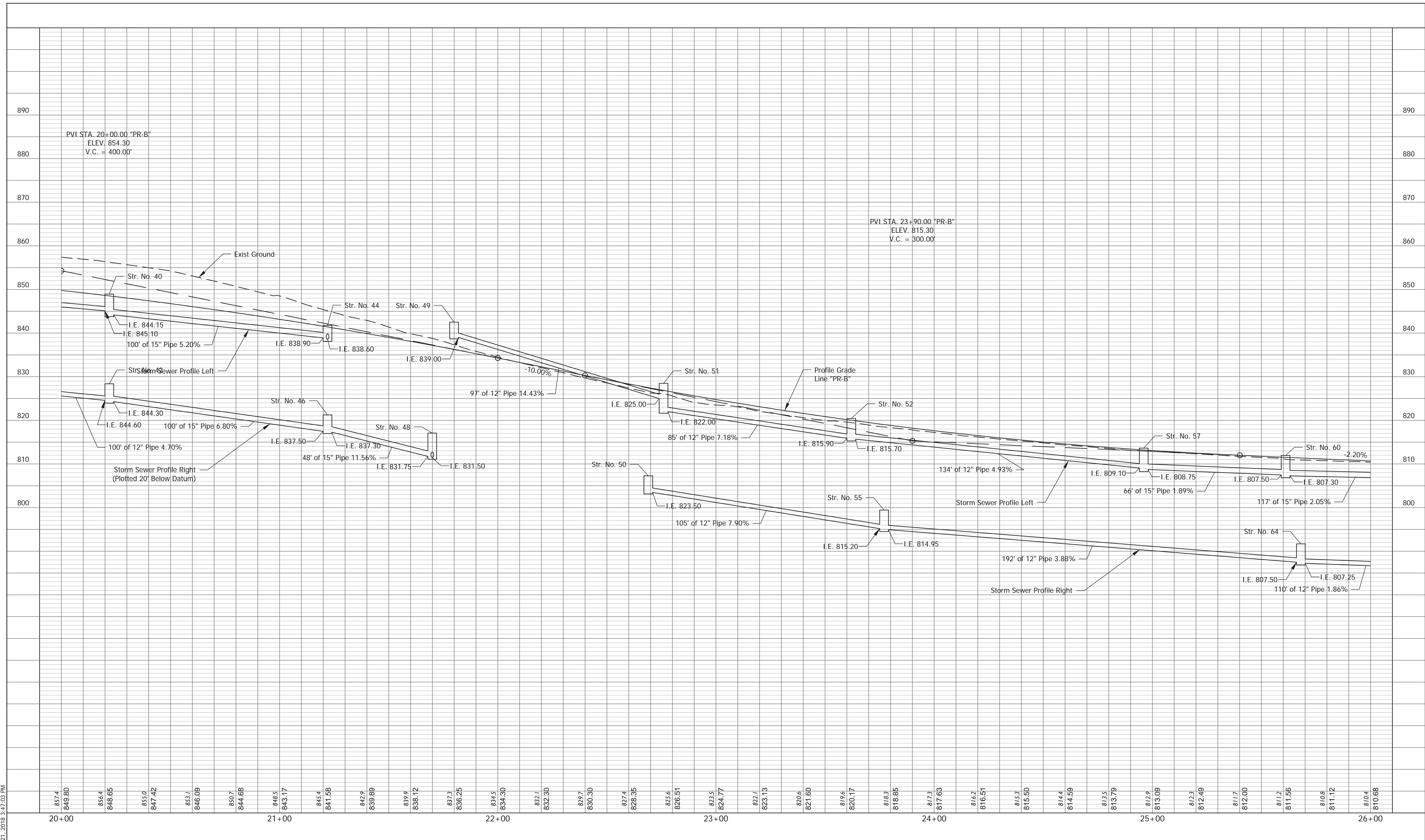
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Δ=7°31'03" Rt.
T= 22.00'
L= 43.95'
R=335.00'
E= 0.72'
S.E.= N.C.

Notes:
Line "PR-B" to be constructed.
For additional Alignment Information See Geometric Tie-In Sheet.
All R/W Described from Line "PR-B" unless otherwise noted.
All R/W on this sheet to be as shown.



PLOTTED: Friday, December 21, 2018 3:47:03 PM

FILE: RD_PROFILE_03.DWG



RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/2018
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

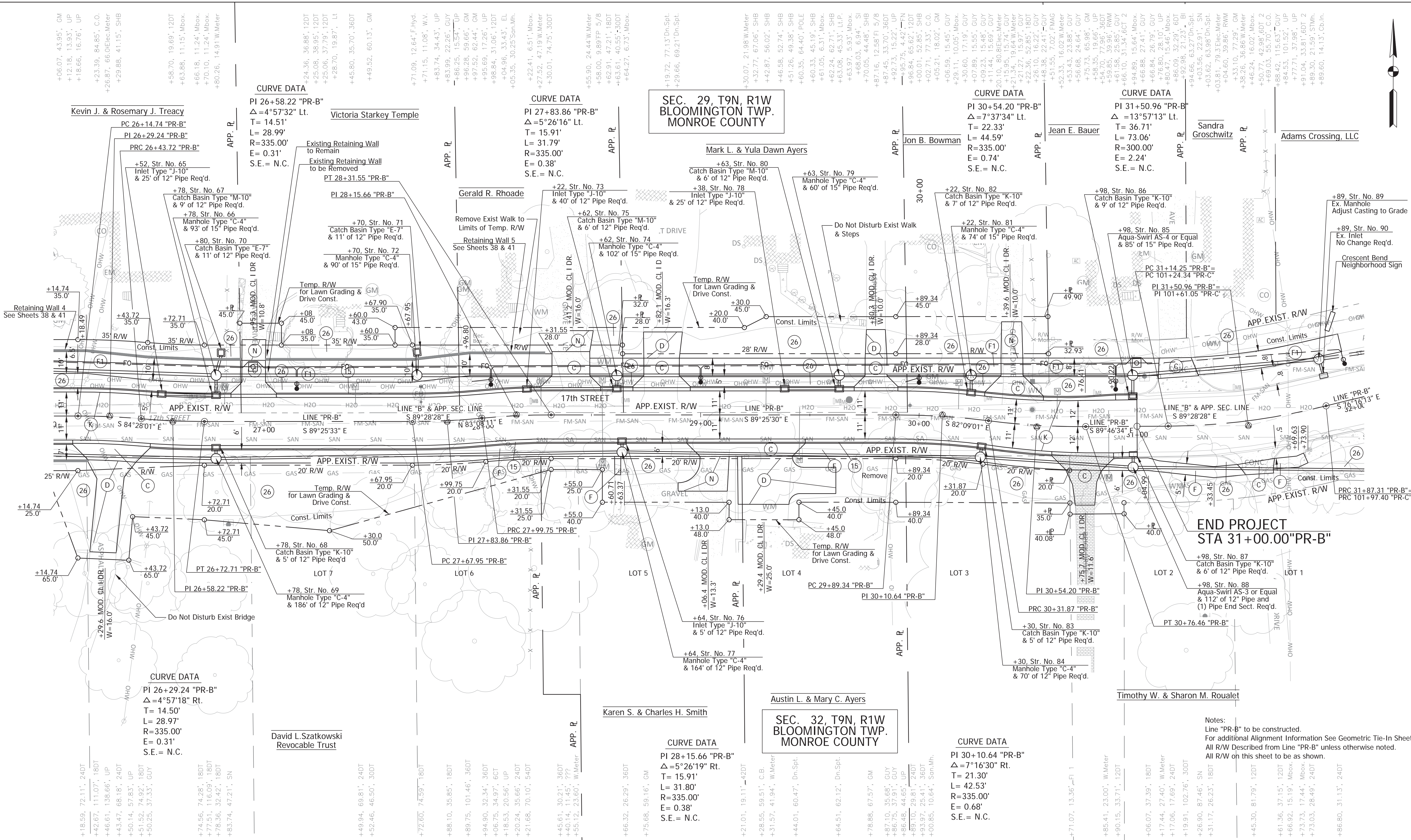
CITY OF BLOOMINGTON

PROFILE SHEET
STA. 20+00 TO STA. 26+00 - LINE "PR-B"

SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	16 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, December 27, 2018 10:52:59 AM

FILE: RD_PLAN_04.DWG



CURVE DATA
 PI 26+58.22 "PR-B"
 $\Delta = 4^{\circ}57'32''$ Lt.
 T = 14.51'
 L = 28.99'
 R = 335.00'
 E = 0.31'
 S.E. = N.C.

CURVE DATA
 PI 27+83.86 "PR-B"
 $\Delta = 5^{\circ}26'16''$ Lt.
 T = 15.91'
 L = 31.79'
 R = 335.00'
 E = 0.38'
 S.E. = N.C.

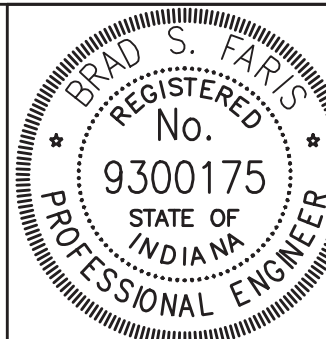
CURVE DATA
 PI 30+54.20 "PR-B"
 $\Delta = 7^{\circ}37'34''$ Lt.
 T = 22.33'
 L = 44.59'
 R = 335.00'
 E = 0.74'
 S.E. = N.C.

CURVE DATA
 PI 31+50.96 "PR-B"
 $\Delta = 13^{\circ}57'13''$ Lt.
 T = 36.71'
 L = 73.06'
 R = 300.00'
 E = 2.24'
 S.E. = N.C.

CURVE DATA
 PI 26+29.24 "PR-B"
 $\Delta = 4^{\circ}57'18''$ Rt.
 T = 14.50'
 L = 28.97'
 R = 335.00'
 E = 0.31'
 S.E. = N.C.

CURVE DATA
 PI 28+15.66 "PR-B"
 $\Delta = 5^{\circ}26'19''$ Rt.
 T = 15.91'
 L = 31.80'
 R = 335.00'
 E = 0.38'
 S.E. = N.C.

CURVE DATA
 PI 30+10.64 "PR-B"
 $\Delta = 7^{\circ}16'30''$ Rt.
 T = 21.30'
 L = 42.53'
 R = 335.00'
 E = 0.68'
 S.E. = N.C.



RECOMMENDED FOR APPROVAL	<i>Brad S. Farris</i>	12/28/2018
DESIGNED:	BSF	
CHECKED:	BSF	
DRAWN:	BSF	
CHECKED:	LAR	

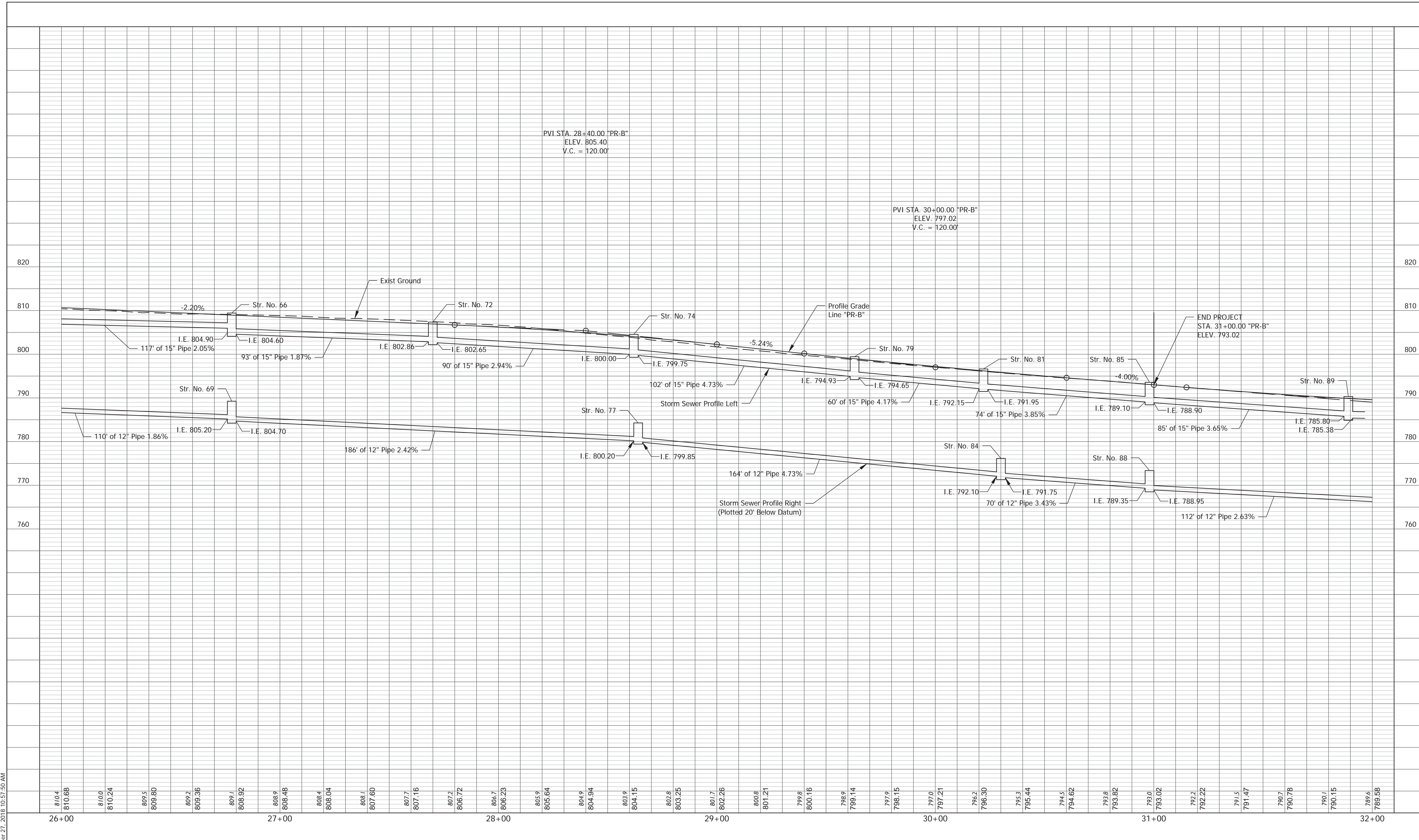
CITY OF BLOOMINGTON
PLAN DETAILS
 STA 26+00 TO STA 32+00

SCALE	BRIDGE FILE
1"=20'	N/A
DESIGNATION	N/A
SURVEY BOOK	SHEETS
N/A	17 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

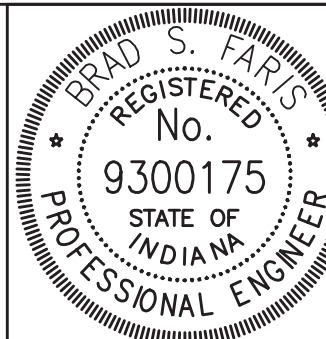
- (C) PCCP for Approaches, 6 In. on Subgrade Treatment, Type II
- (D) 550 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface, Type B on 385 #/syd HMA Intermediate, Type B on Subgrade Treatment, Type II
- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: See Typical Section
- (K) Full Depth HMA Pavement: See Typical Section
- (N) 6" Compacted Aggregate for Surface, No. 73
- (15) Combined Concrete Curb and Gutter, Modified
- (26) Sodding, Nursery

Notes:
 Line "PR-B" to be constructed.
 For additional Alignment Information See Geometric Tie-In Sheet.
 All R/W Described from Line "PR-B" unless otherwise noted.
 All R/W on this sheet to be as shown.

PLOTTED: Thursday, December 27, 2018 10:57:50 AM



FILE: RD_PROFILE_04.DWG



RECOMMENDED FOR APPROVAL: *Brad S. Paris* 12/28/2018
 DESIGN ENGINEER DATE

DESIGNED: BSF DRAWN: BSF
 CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON

PROFILE SHEET
 STA 26+00 TO STA 32+00 - LINE "PR-B"

SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	18 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

26 Sodding, Nursery

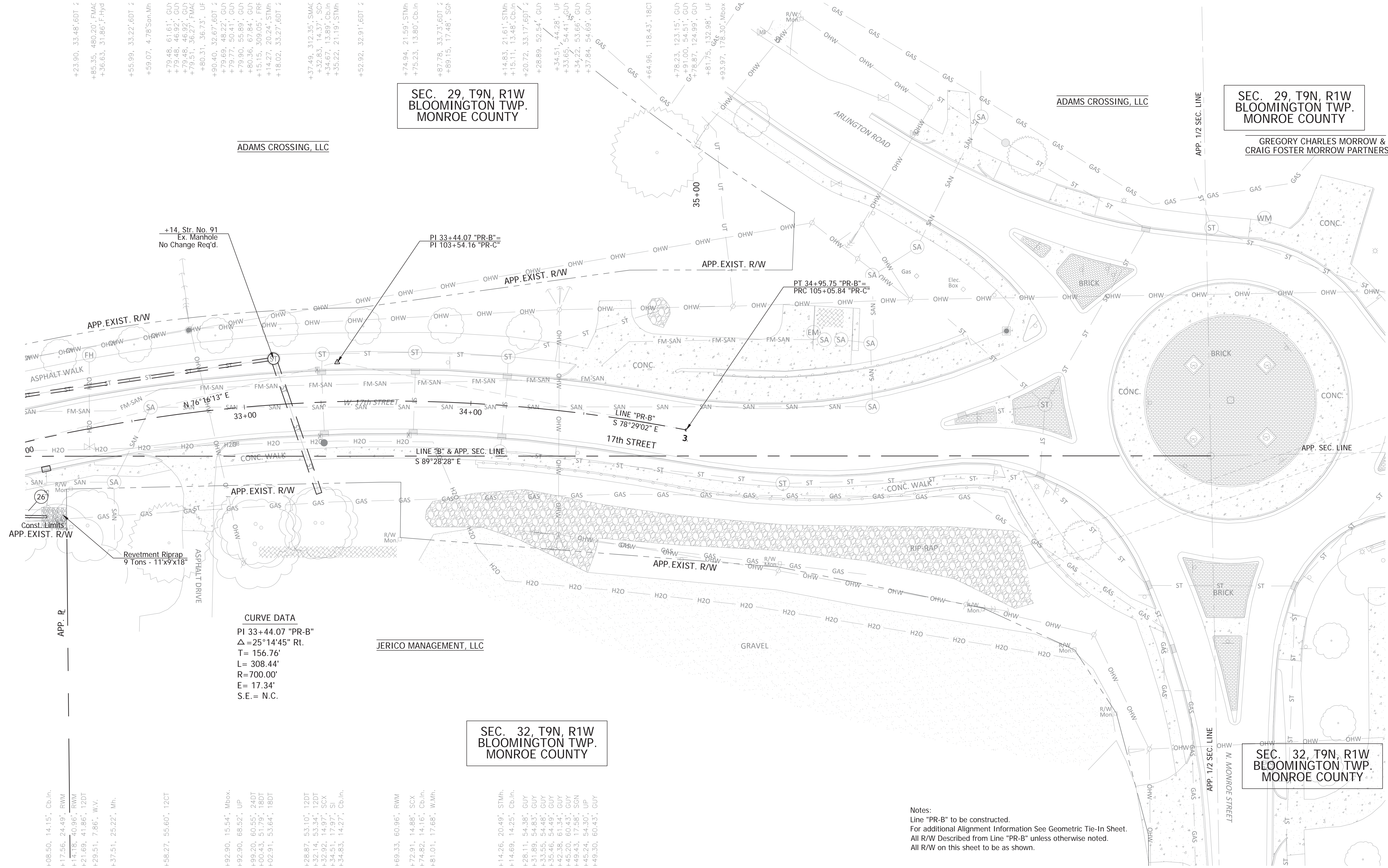
+23.90, 33.48', 6DT, 2
 +85.35, 480.20', FMAC
 +36.63, 31.86', F.Hyd
 +55.99, 33.22', 6DT, 2
 +59.07, 4.78' Seta.Mh
 +79.48, 61.61', GUY
 +79.48, 46.92', GUY
 +79.48, 46.92', GUY
 +79.51, 36.27', FMAC
 +80.31, 36.73', UF
 +90.40, 32.67', 6DT, 2
 +79.69, 48.22', GUY
 +79.77, 50.41', GUY
 +79.90, 55.89', GUY
 +80.36, 67.84', GUY
 +15.15, 309.05', FRF
 +14.27, 20.24', STMh
 +18.02, 33.27', 6DT, 2

ADAMS CROSSING, LLC

SEC. 29, T9N, R1W
 BLOOMINGTON TWP.
 MONROE COUNTY

SEC. 29, T9N, R1W
 BLOOMINGTON TWP.
 MONROE COUNTY

GREGORY CHARLES MORROW &
 CRAIG FOSTER MORROW PARTNERSHIP



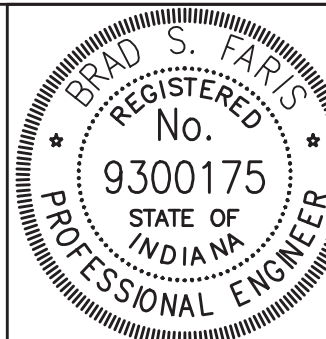
CURVE DATA
 PI 33+44.07 "PR-B"
 $\Delta = 25^\circ 14' 45''$ Rt.
 T = 156.76'
 L = 308.44'
 R = 700.00'
 E = 17.34'
 S.E. = N.C.

JERICO MANAGEMENT, LLC

SEC. 32, T9N, R1W
 BLOOMINGTON TWP.
 MONROE COUNTY

SEC. 32, T9N, R1W
 BLOOMINGTON TWP.
 MONROE COUNTY

Notes:
 Line "PR-B" to be constructed.
 For additional Alignment Information See Geometric Tie-In Sheet.
 All R/W Described from Line "PR-B" unless otherwise noted.
 All R/W on this sheet to be as shown.

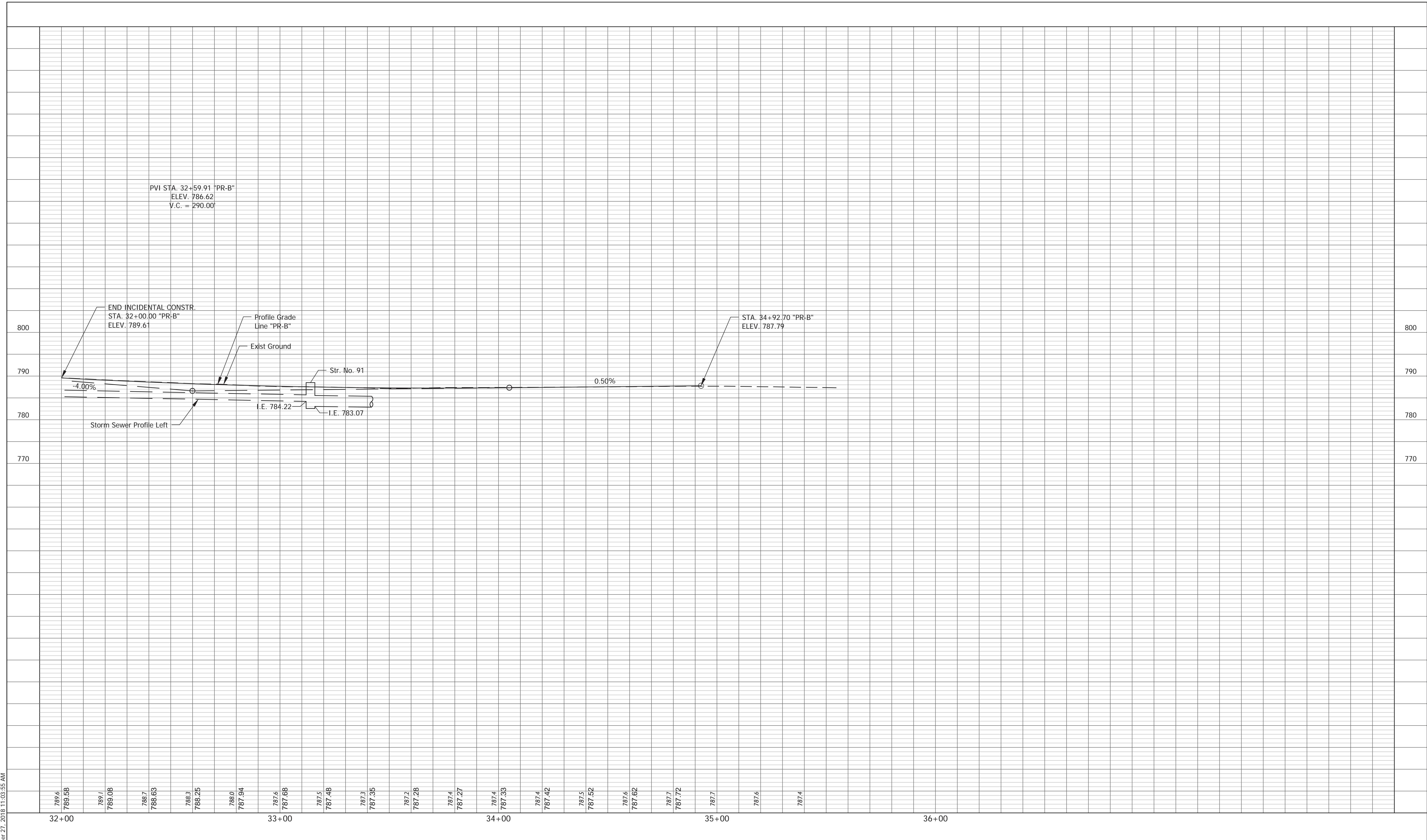


RECOMMENDED FOR APPROVAL	<i>Brad S. Farris</i>	12/28/2018
DESIGNED:	BSF	DRAWN:
CHECKED:	BSF	CHECKED:

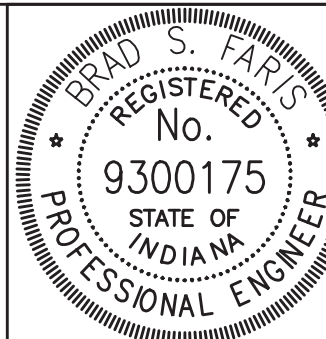
CITY OF BLOOMINGTON	
PLAN DETAILS	
STA 32+00 TO STA 35+00	

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	19 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, December 27, 2018 11:03:55 AM



789.6
789.58
32+00
789.1
789.08
788.7
788.63
788.3
788.25
788.0
787.94
33+00
787.6
787.68
787.5
787.48
787.3
787.35
787.2
787.28
787.4
787.27
34+00
787.4
787.33
787.4
787.42
787.5
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35+00
787.7
787.6
787.4
36+00



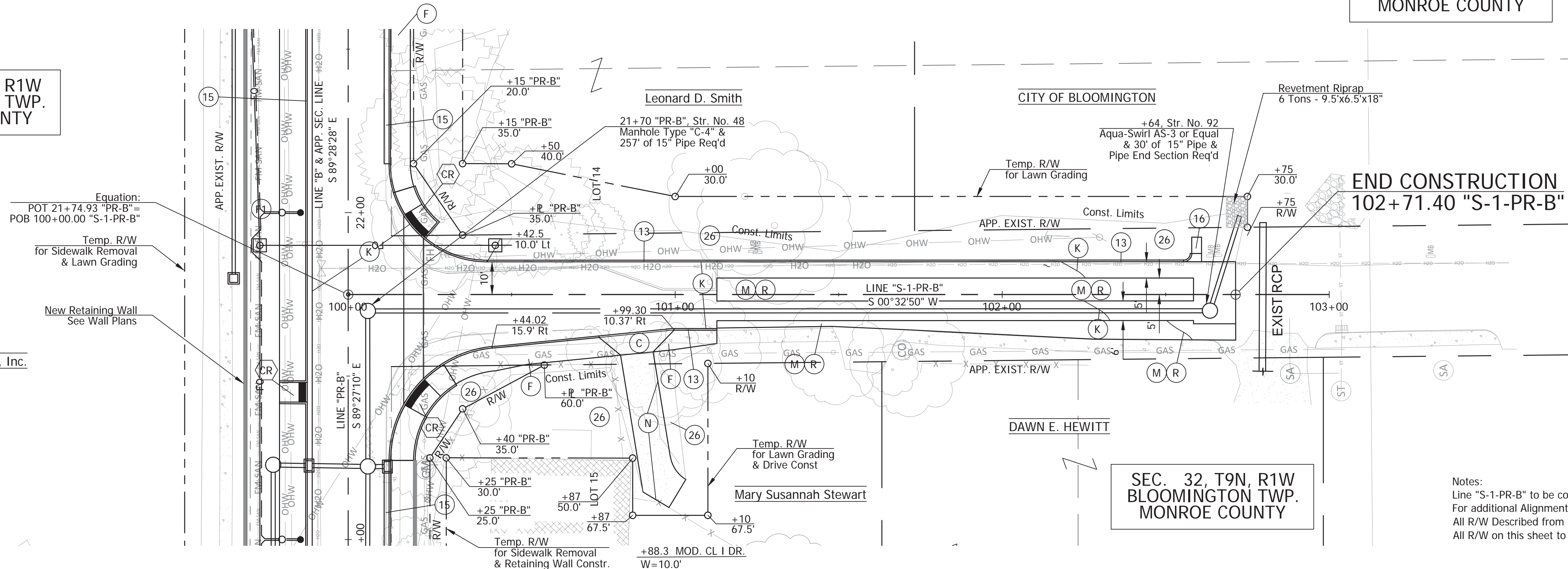
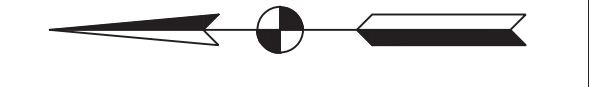
RECOMMENDED FOR APPROVAL *Brad S. Paris* 12/28/2018
DESIGN ENGINEER DATE

DESIGNED: BSF DRAWN: BSF
CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON

PROFILE SHEET
STA 32+00 TO END PROJECT - LINE "PR-B"

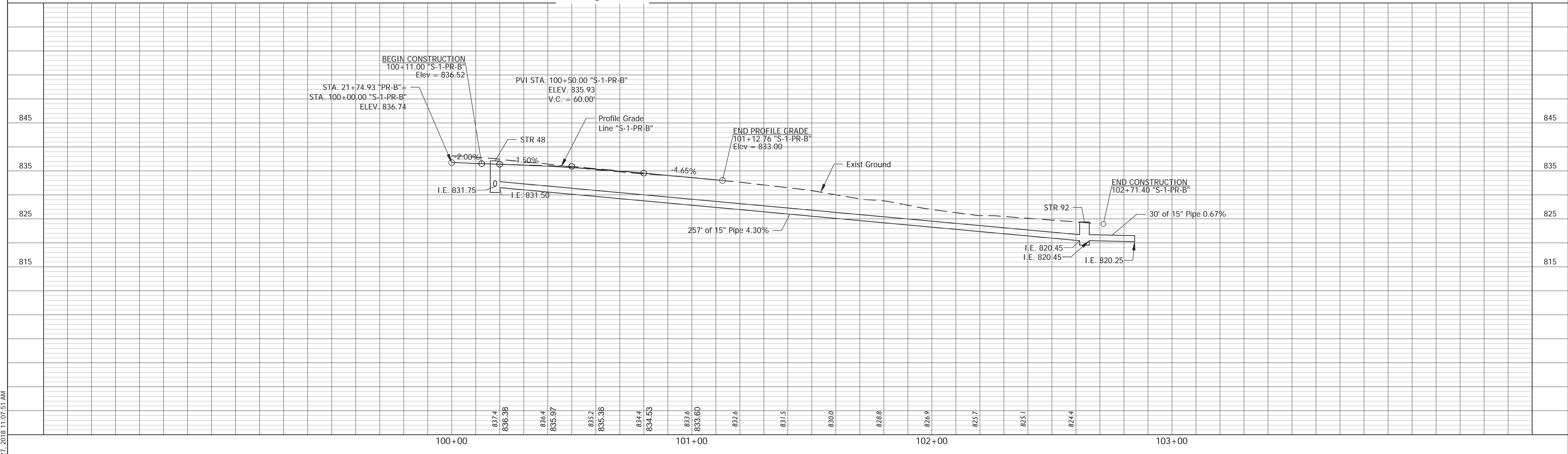
SCALE 1" = 20'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 20 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION



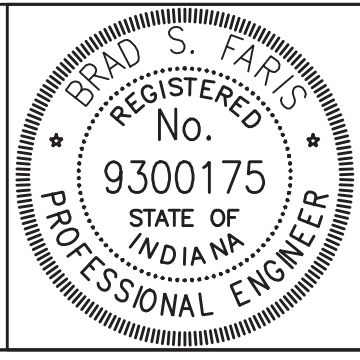
Rogers Group, Inc.

END CONSTRUCTION
102+71.40 "S-1-PR-B"

Notes:
Line "S-1-PR-B" to be constructed.
For additional Alignment Information See Geometric Tie-In Sheet.
All R/W Described from Line "S-1-PR-B" unless otherwise noted.
All R/W on this sheet to be as shown.



- (C) PCCP for Approaches, 6 In. on Subgrade Treatment, Type II
- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: See Typical Section
- (K) Full Depth HMA Pavement: See Typical Section
- (M) Milling, Asphalt, 1 1/2 in.
- (N) 6" Compacted Aggregate for Surface, No. 73
- (R) 165 #/SY QC/QA-HMA, 2, 70, Surface, 9.5 mm
- (CR) Concrete Curb Ramp
- (13) Concrete Curb
- (15) Combined Concrete Curb and Gutter, Modified
- (16) Concrete Curb and Gutter, Turnout
- (26) Sodding, Nursery



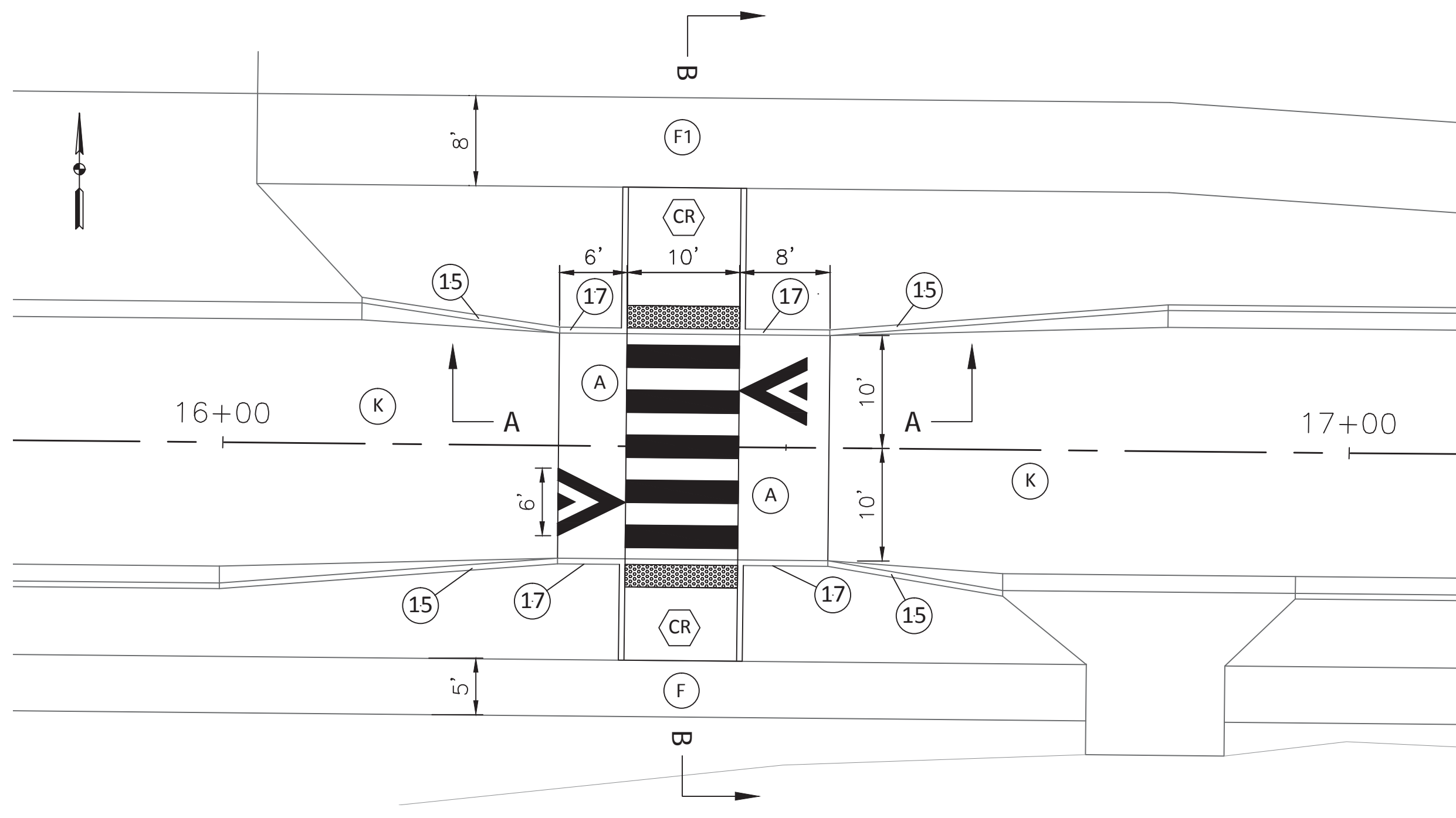
RECOMMENDED FOR APPROVAL: *Brad S. Farris*
DESIGN ENGINEER
DATE: 12/28/2018

DESIGNED: BSF
DRAWN: BSF
CHECKED: BSF
CHECKED: LAR

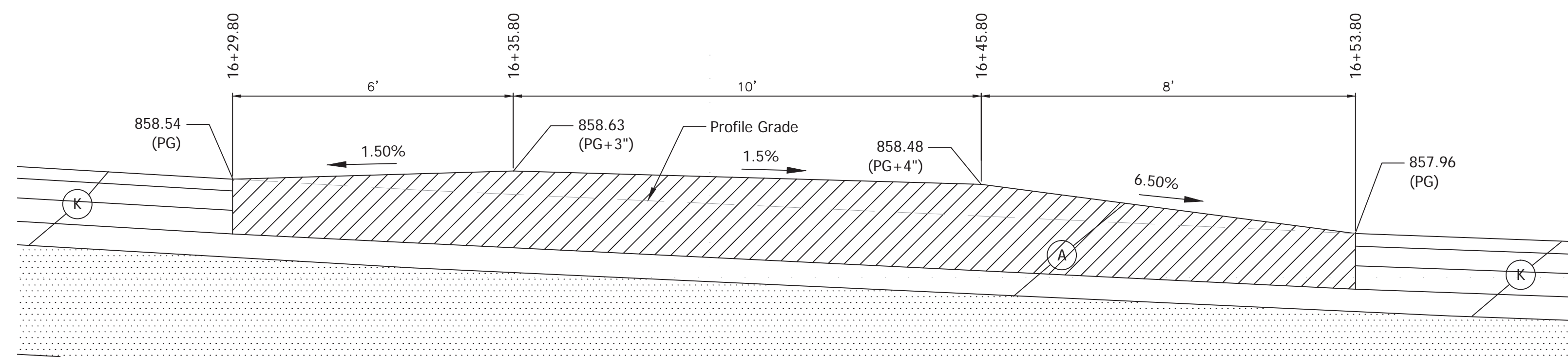
CITY OF BLOOMINGTON

PLAN & PROFILE DETAIL
LINDBERGH DRIVE

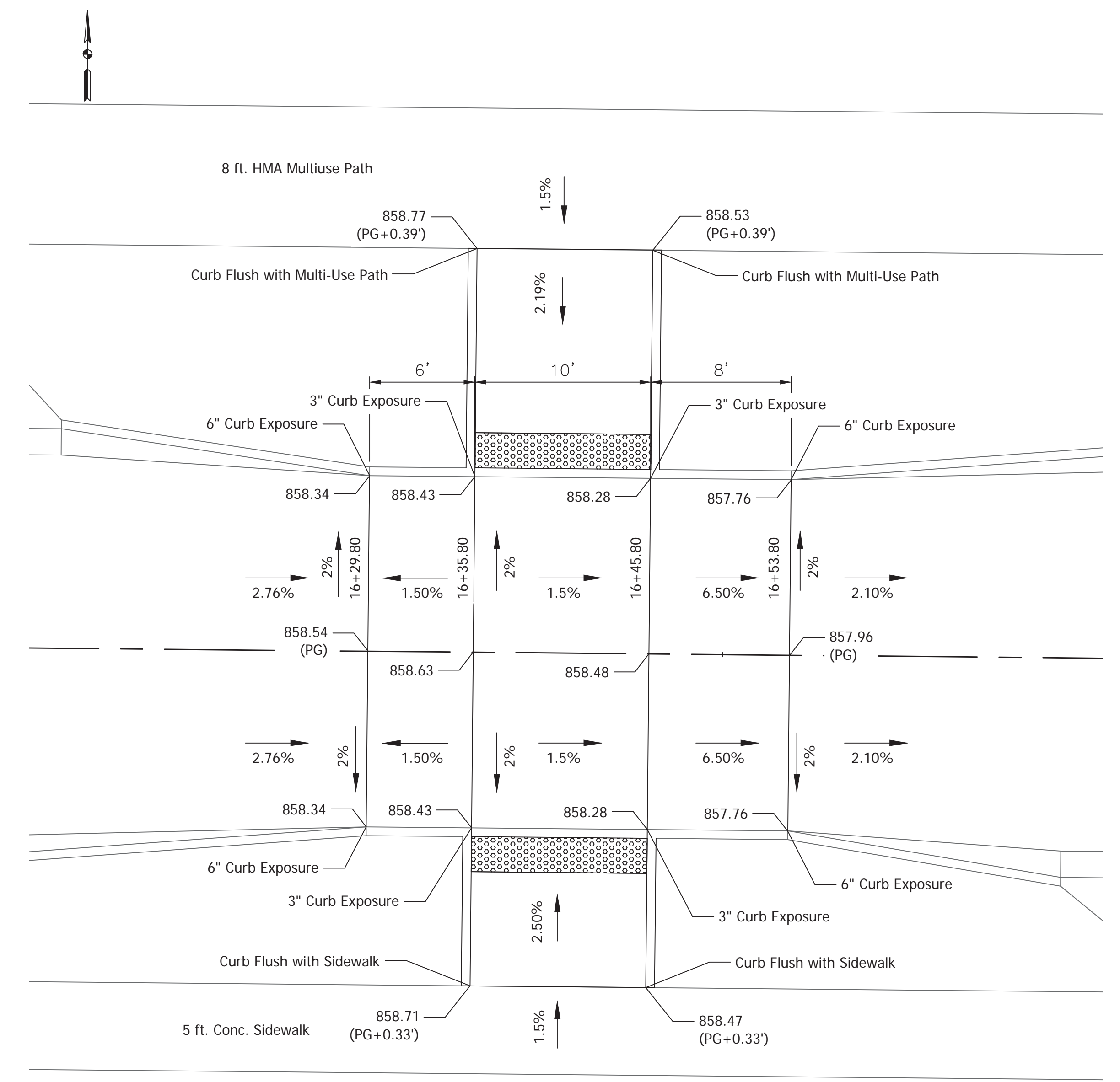
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
N/A	21 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



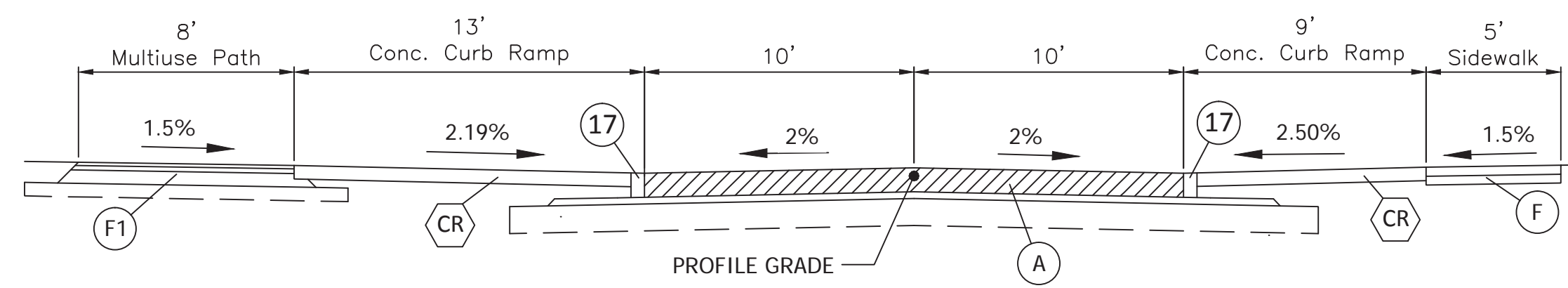
RAISED CROSSWALK DETAIL



SECTION A-A

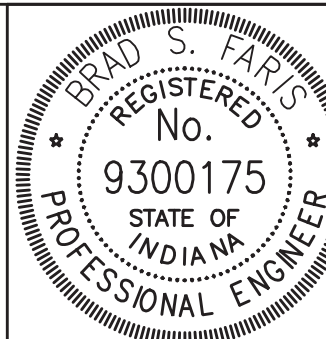


RAISED CROSSWALK PAVEMENT ELEVATION DETAIL



SECTION B-B

- (A) Variable Depth Plain PCCP on 3" Compacted Aggregate, No. 53, Base Subgrade Treatment, Type IB
- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: See Typical Section
- (K) Full Depth HMA Pavement: See Typical Section
- (CR) Concrete Curb Ramp
- (13) Concrete Curb
- (17) Integral Curb



RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/2018
DESIGNED:	LAR	DRAWN:
CHECKED:	LAR	CHECKED:
		BSF

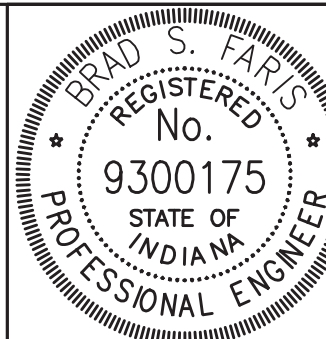
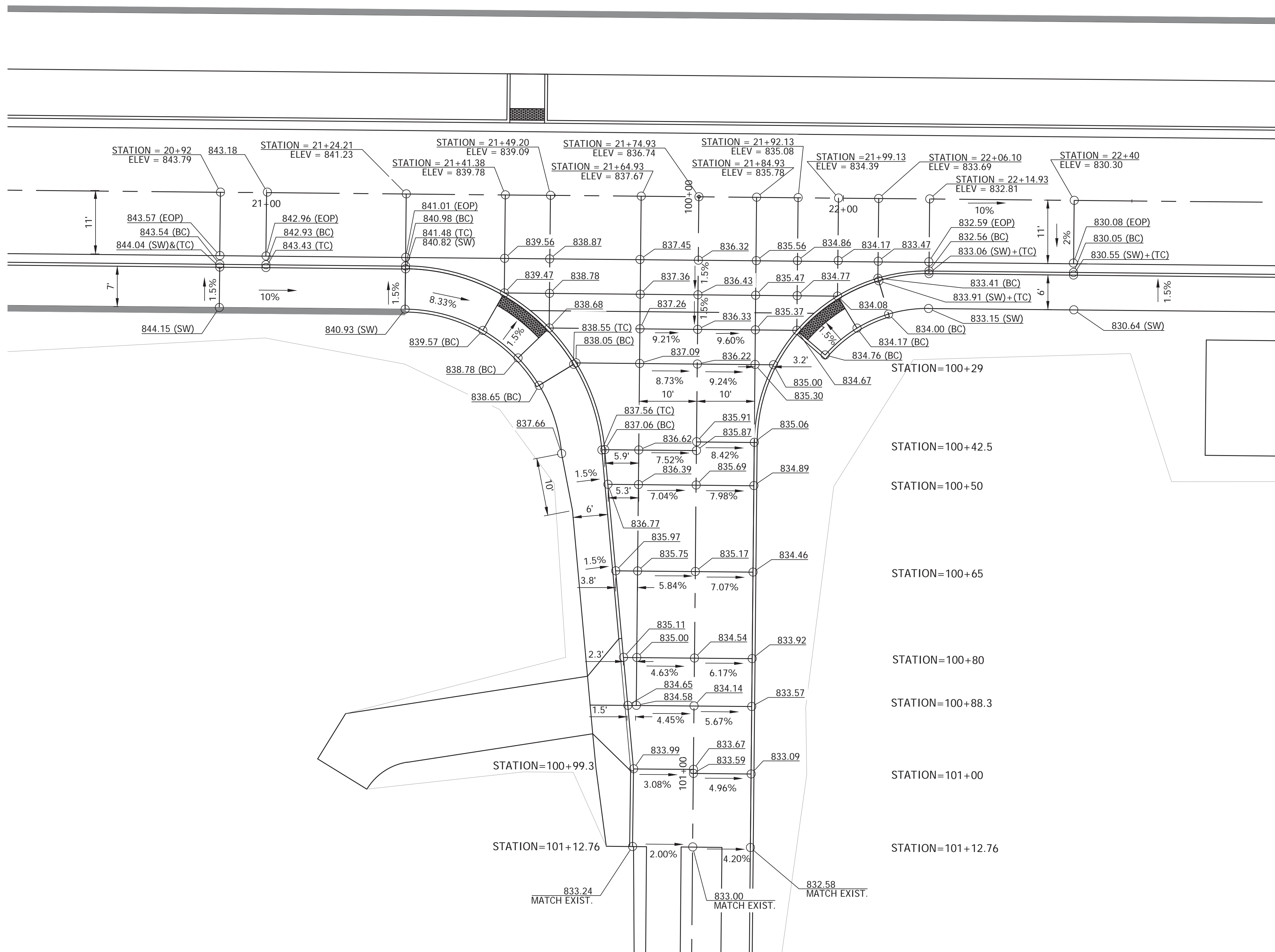
CITY OF BLOOMINGTON

RAISED CROSSWALK DETAIL

SCALE	BRIDGE FILE
N.T.S.	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	22 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, December 27, 2018 11:13:01 AM

FILE: RD_DETAIL_01.DWG

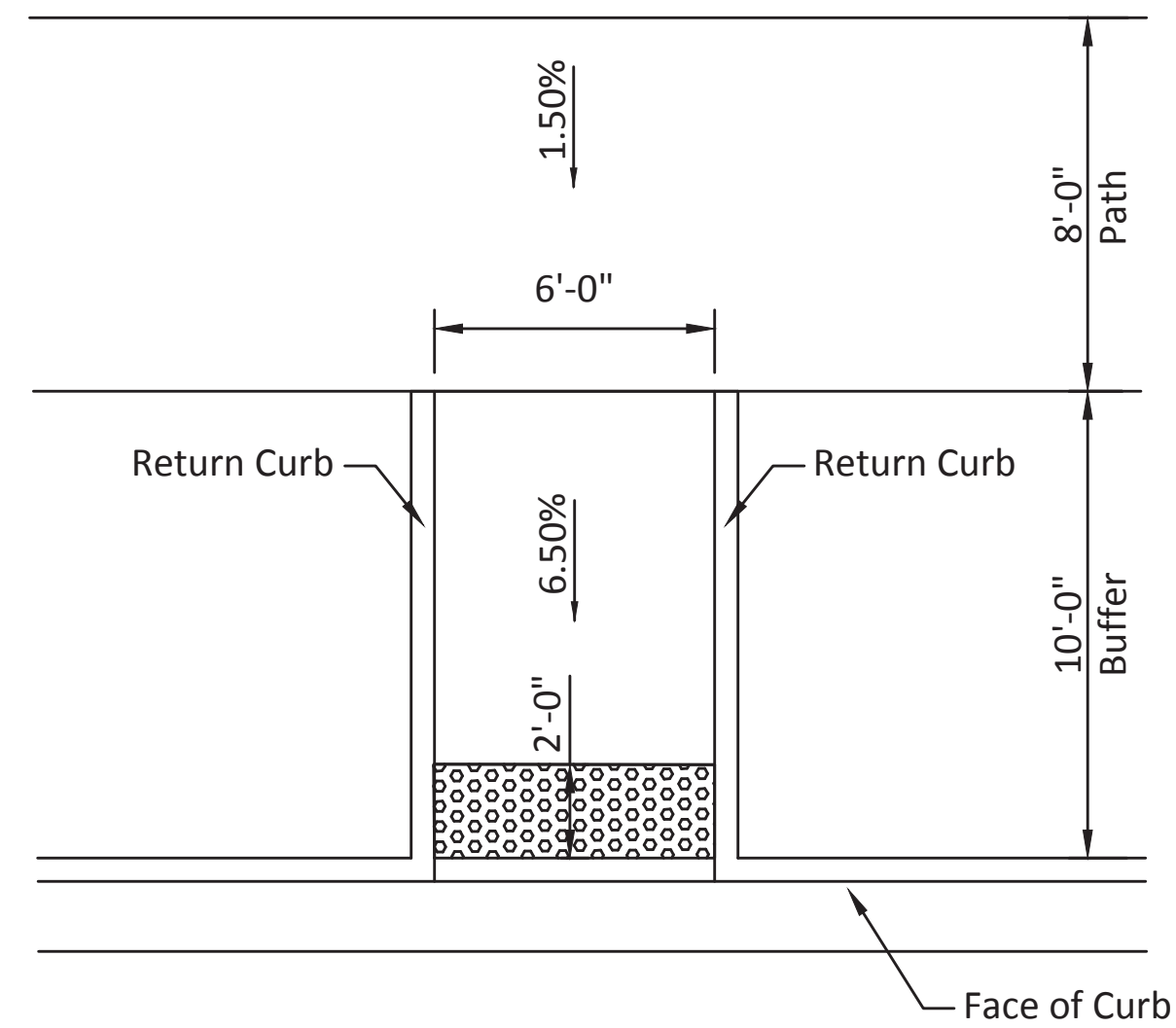


RECOMMENDED FOR APPROVAL: *Brad S. Farris* 12/28/2018
 DESIGN ENGINEER DATE
 DESIGNED: BSF DRAWN: PRD
 CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON
 LINDBERGH DR SPOT
 ELEVATION DETAILS

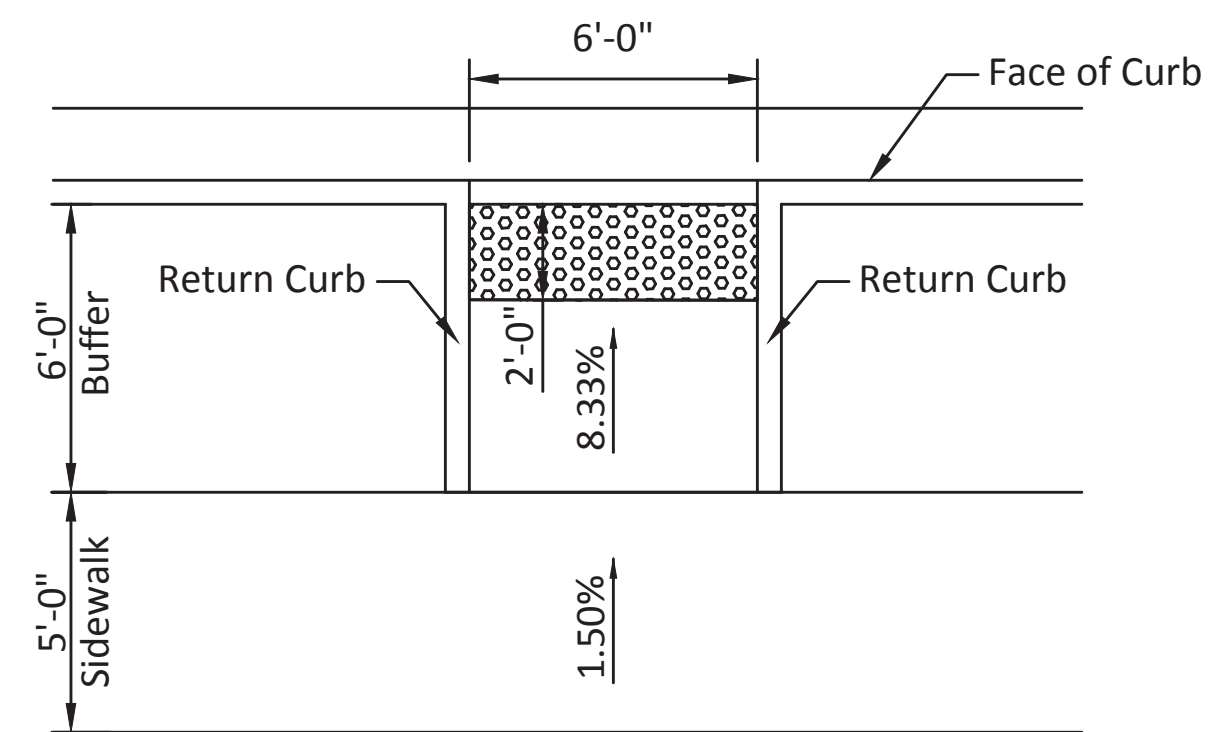
SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	23 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, December 27, 2018 11:20:17 AM



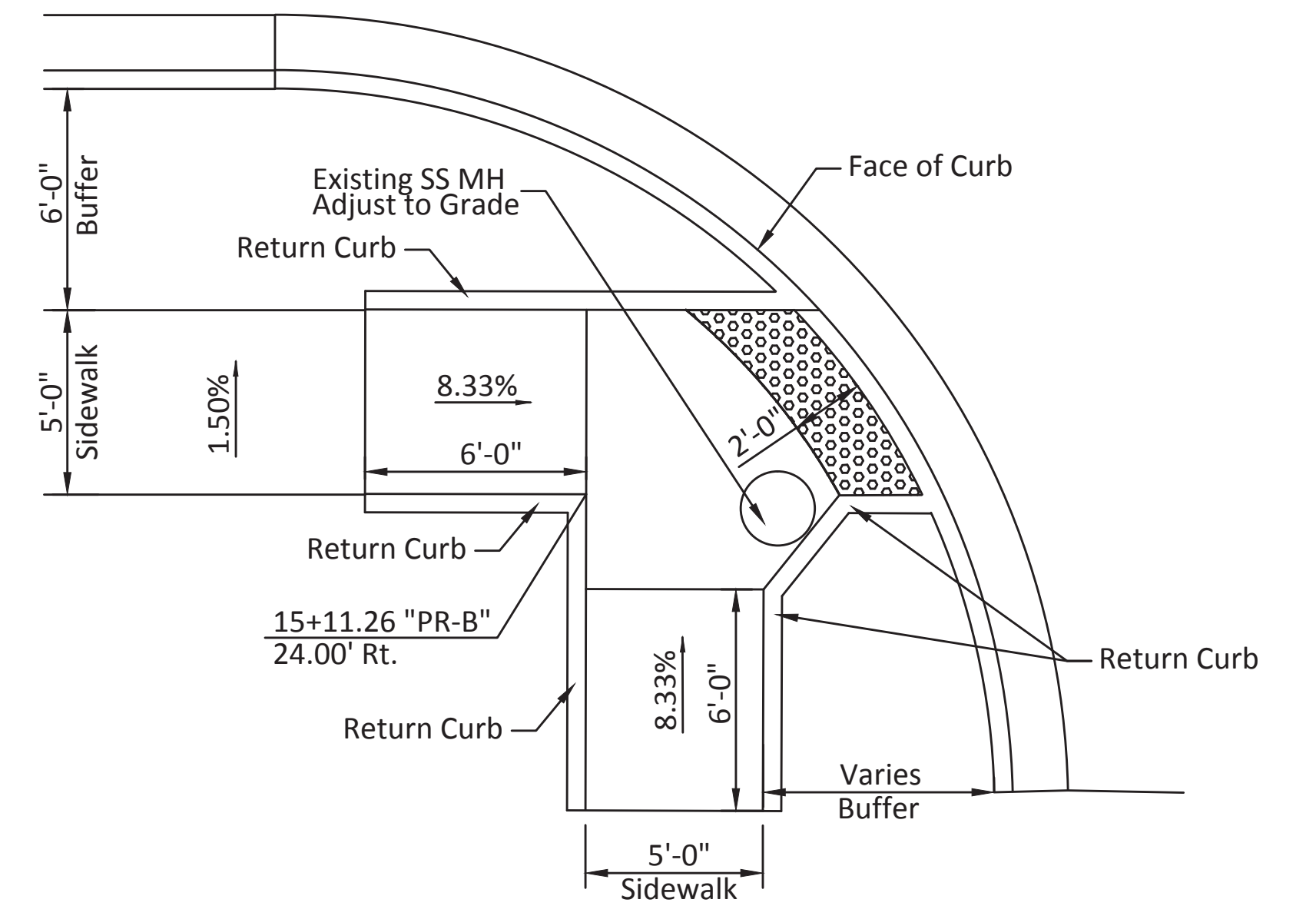
PERPENDICULAR CURB RAMP
ADJACENT TO NON-WALKABLE SURFACE

STA. 14+93 "PR-B", Lt.



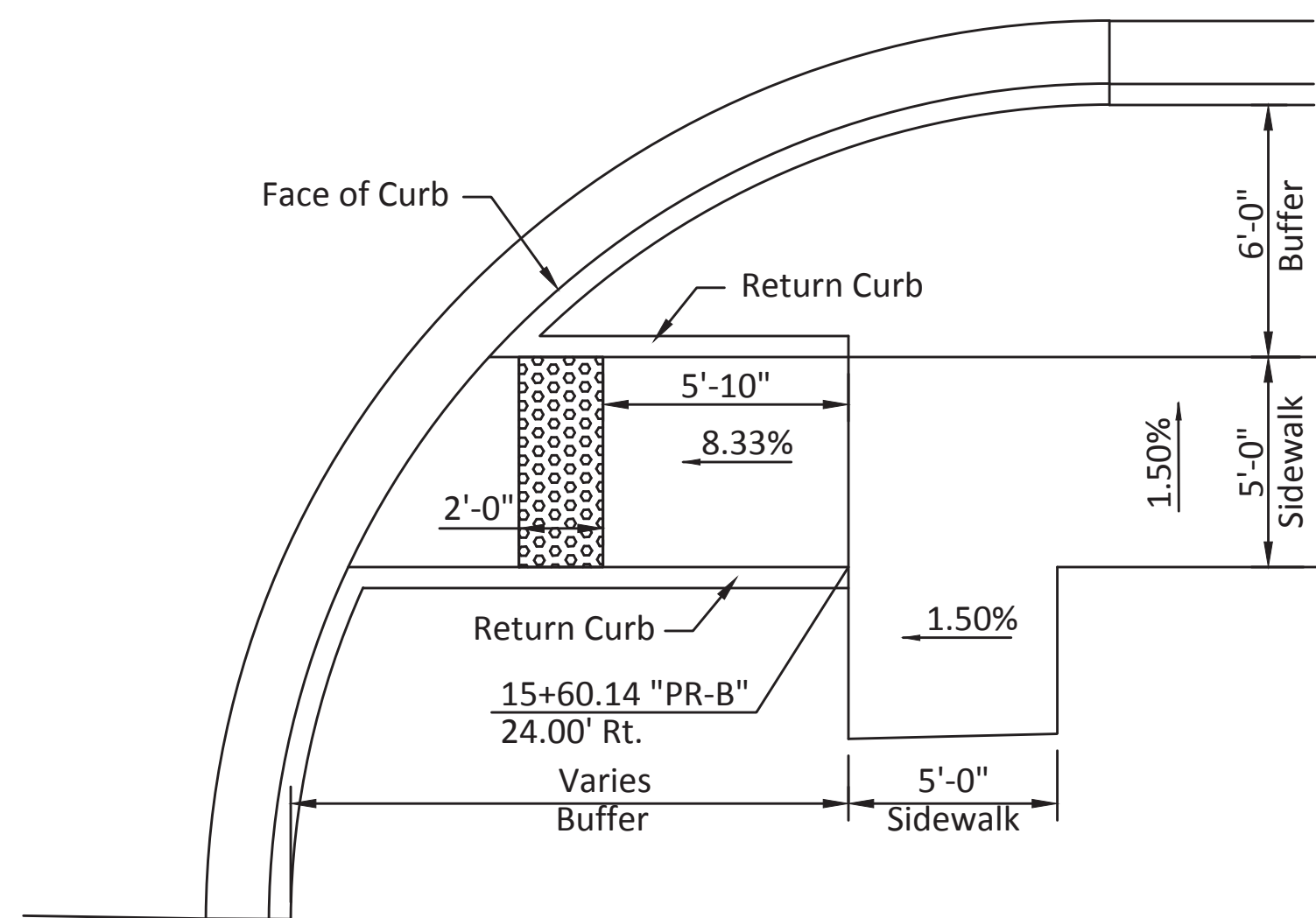
PERPENDICULAR CURB RAMP
ADJACENT TO NON-WALKABLE SURFACE

STA. 14+93 "PR-B", Rt.
STA. 17+89 "PR-B", Rt.



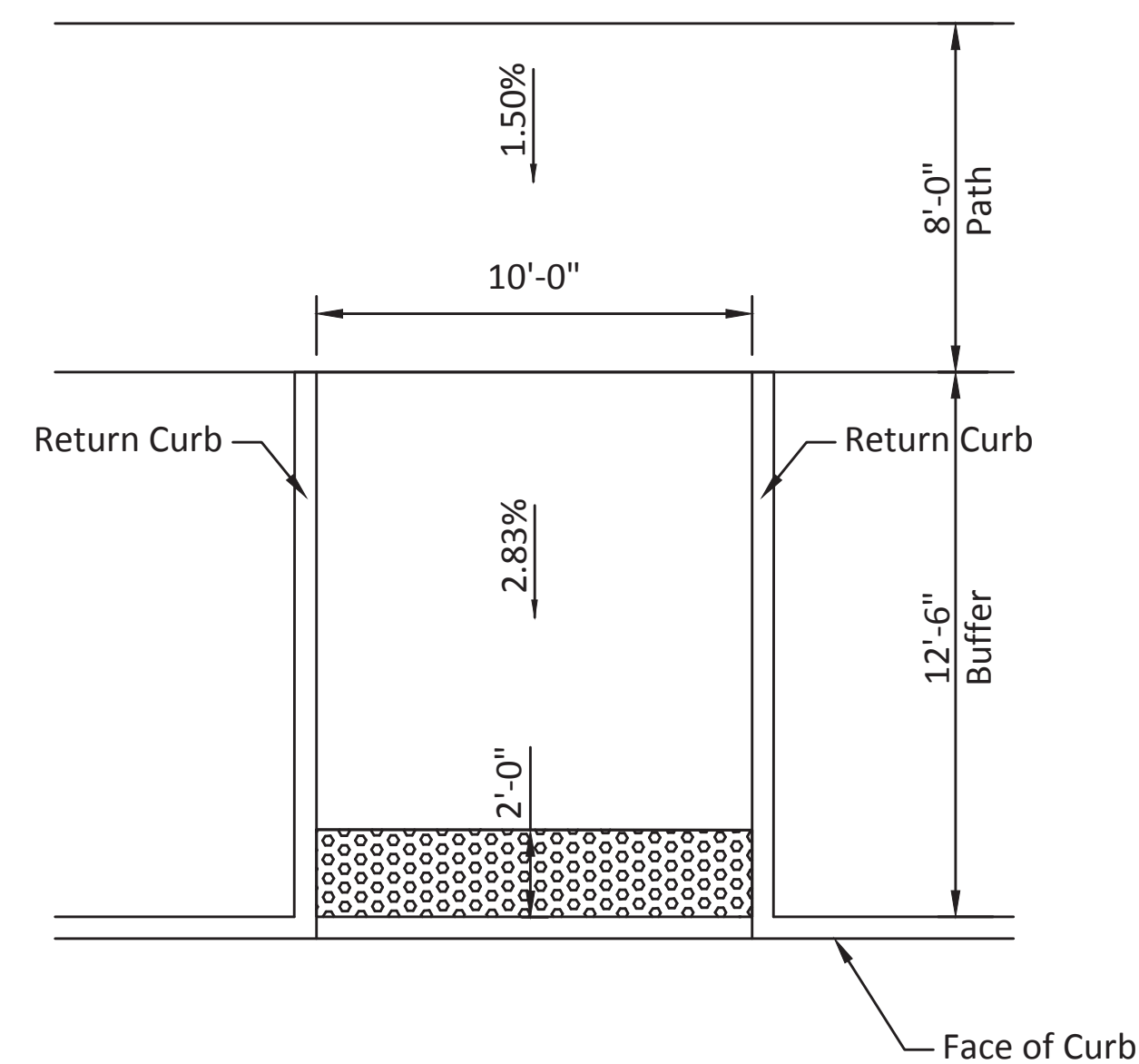
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP
ADJACENT TO NON-WALKABLE SURFACE

STA. 15+11 "PR-B", Rt.



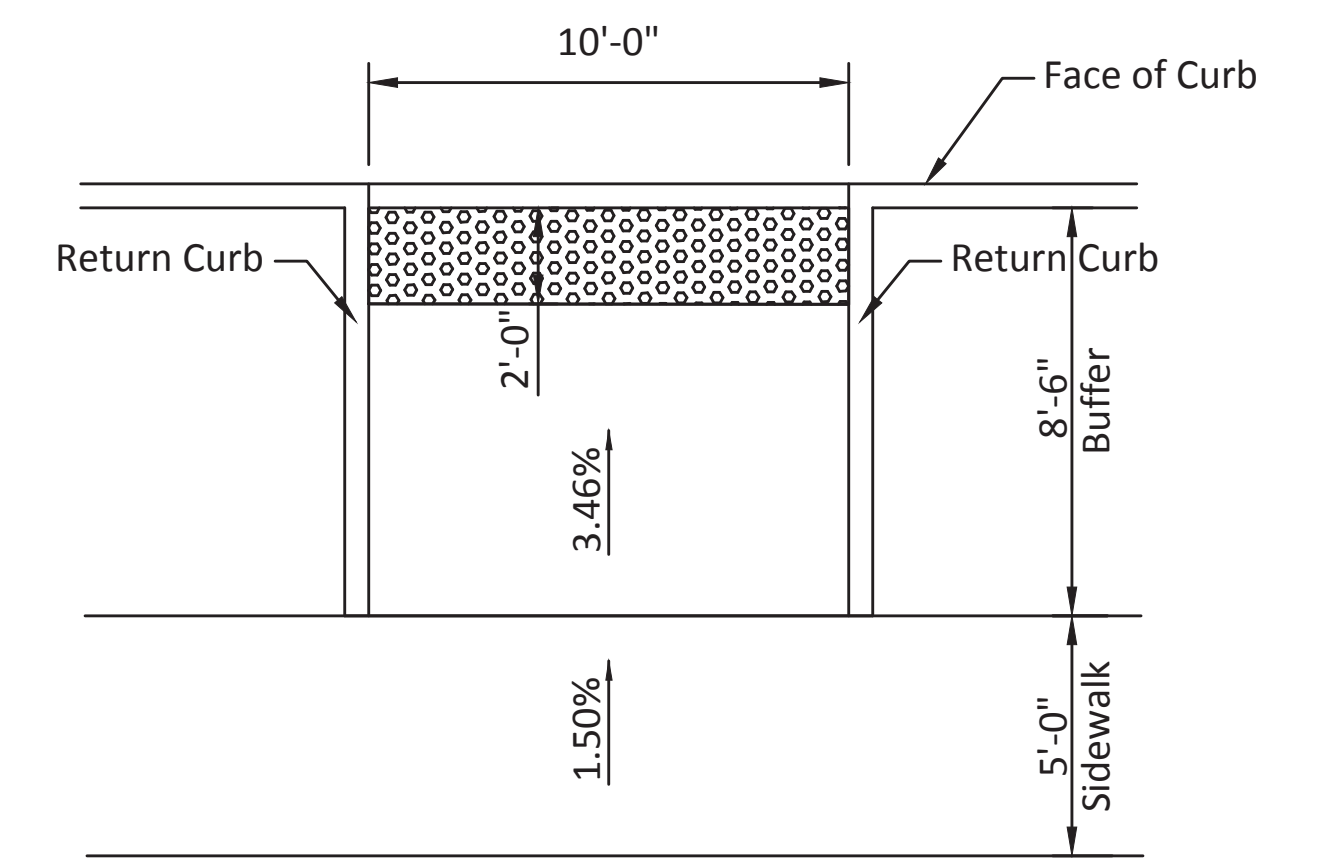
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP
ADJACENT TO NON-WALKABLE SURFACE

STA. 15+60 "PR-B", Rt.



PERPENDICULAR CURB RAMP
ADJACENT TO NON-WALKABLE SURFACE

STA. 16+40.8 "PR-B", Lt.

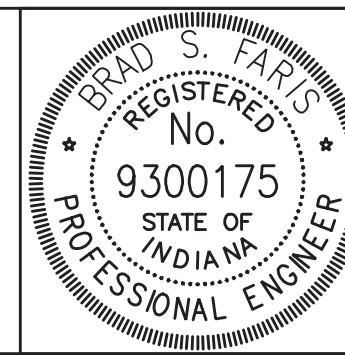


PERPENDICULAR CURB RAMP
ADJACENT TO NON-WALKABLE SURFACE

STA. 16+40.8 "PR-B", Rt.

Note:
See INDOT Std. Dwg. E 604-SWCR-01 thru
E 604-SWCR-14 for Curb Ramp Details

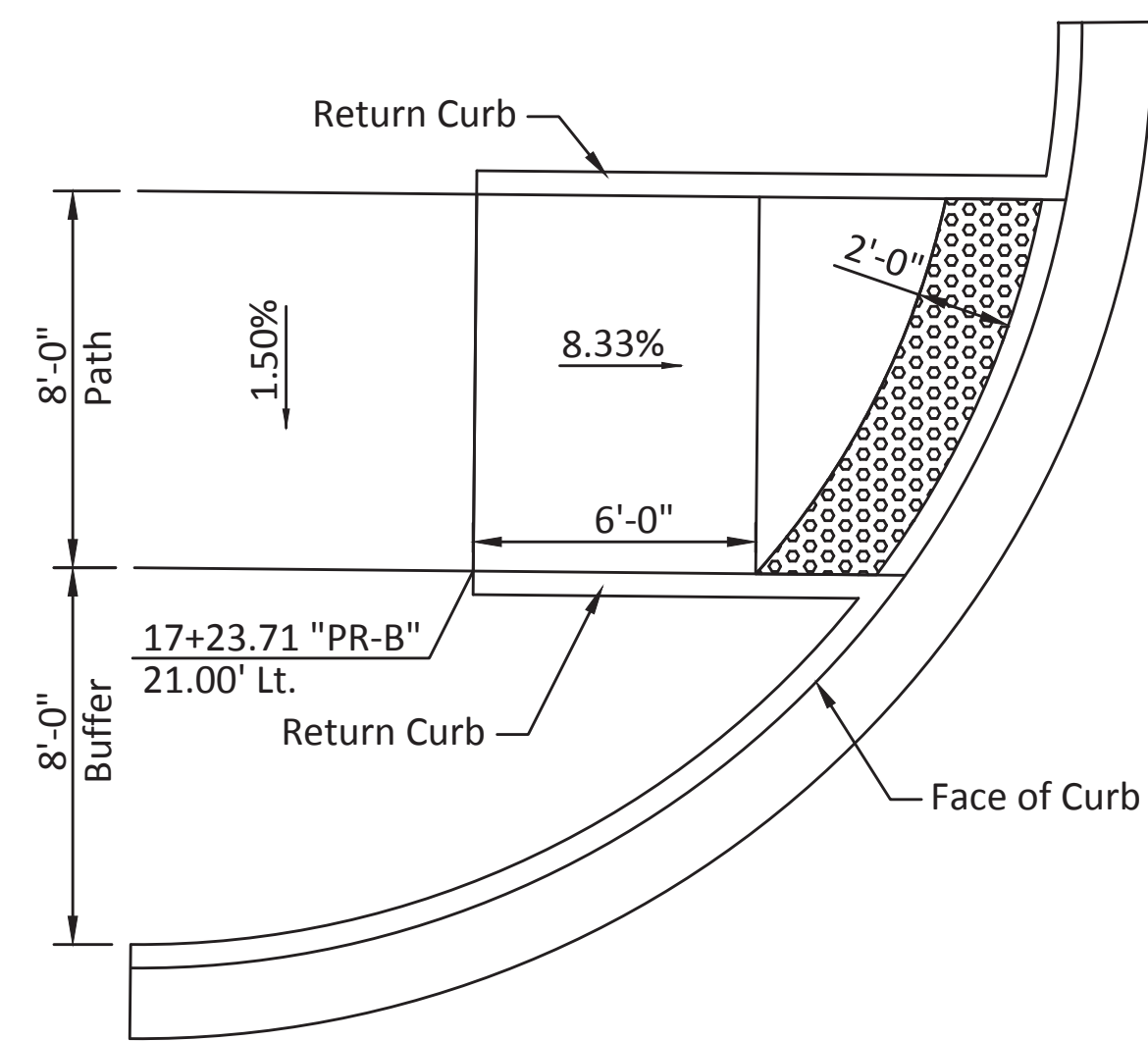
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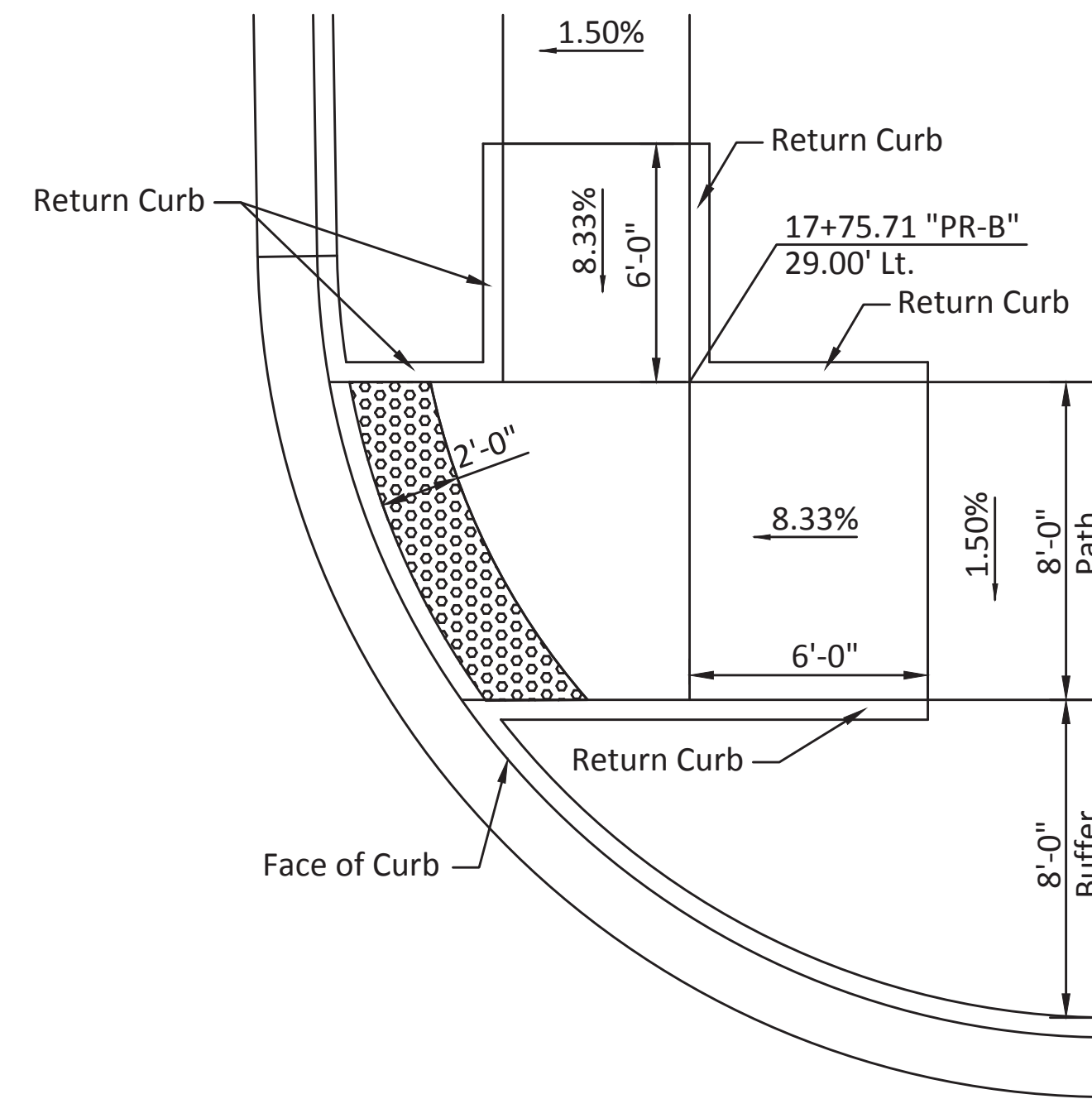
RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/2018
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON
MISCELLANEOUS DETAILS

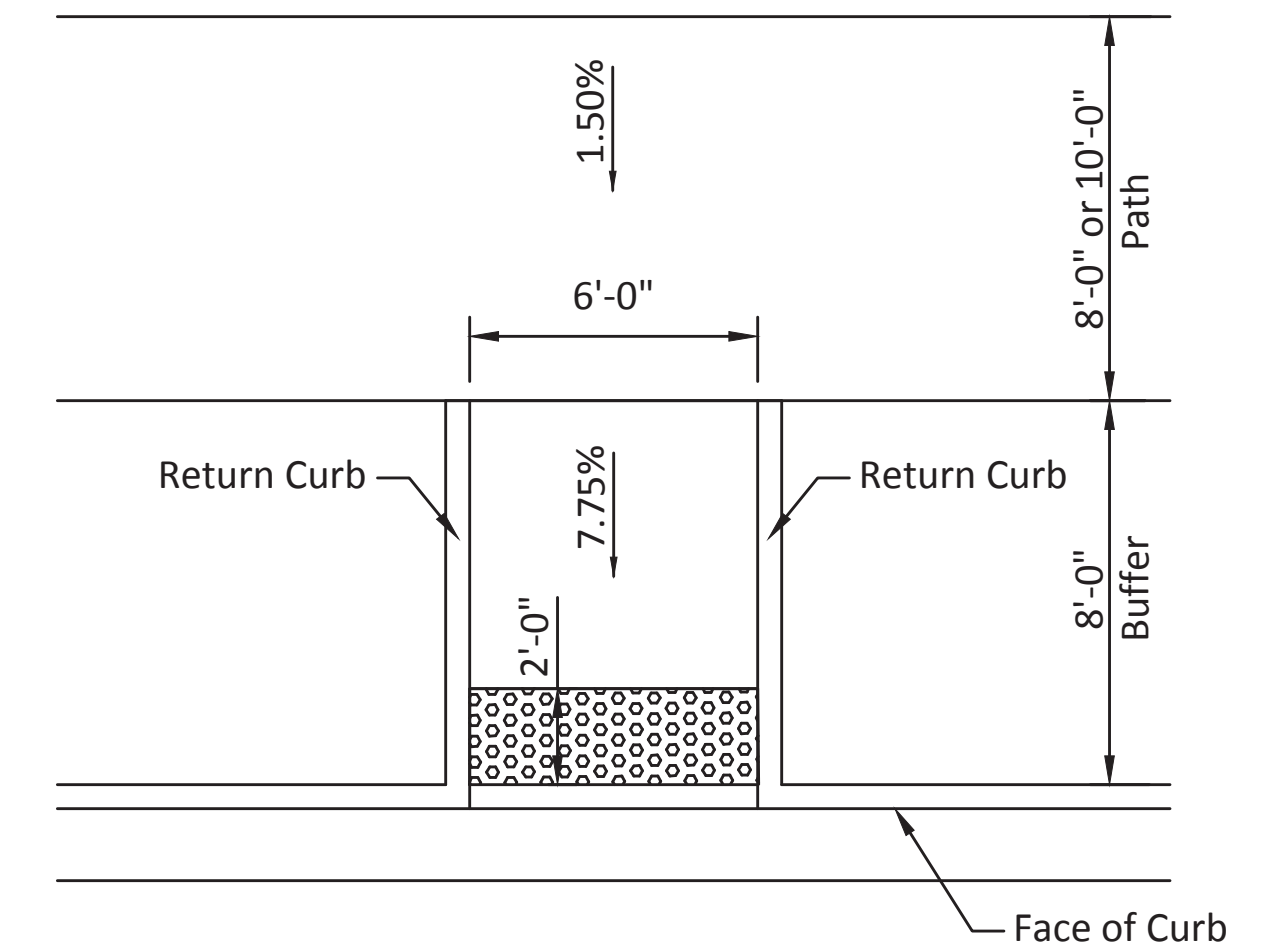
SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	24 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



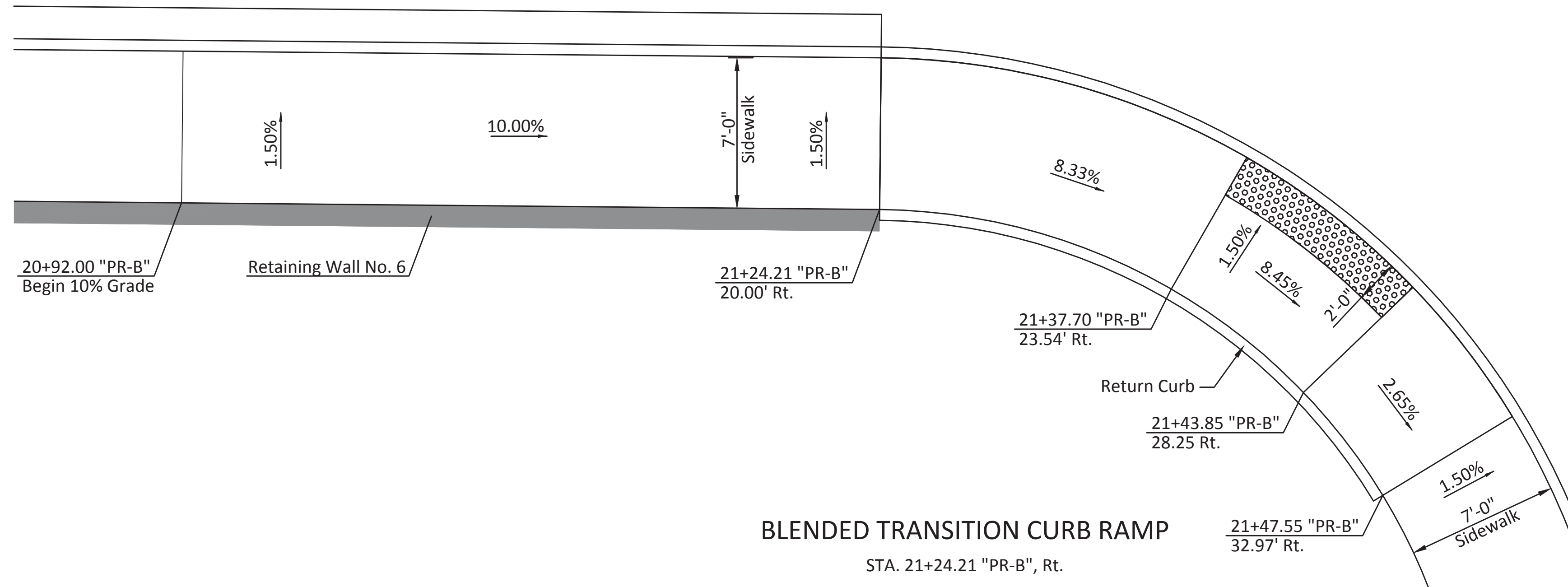
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP
ADJACENT TO NON-WALKABLE SURFACE
STA. 17+23 "PR-B", Lt.



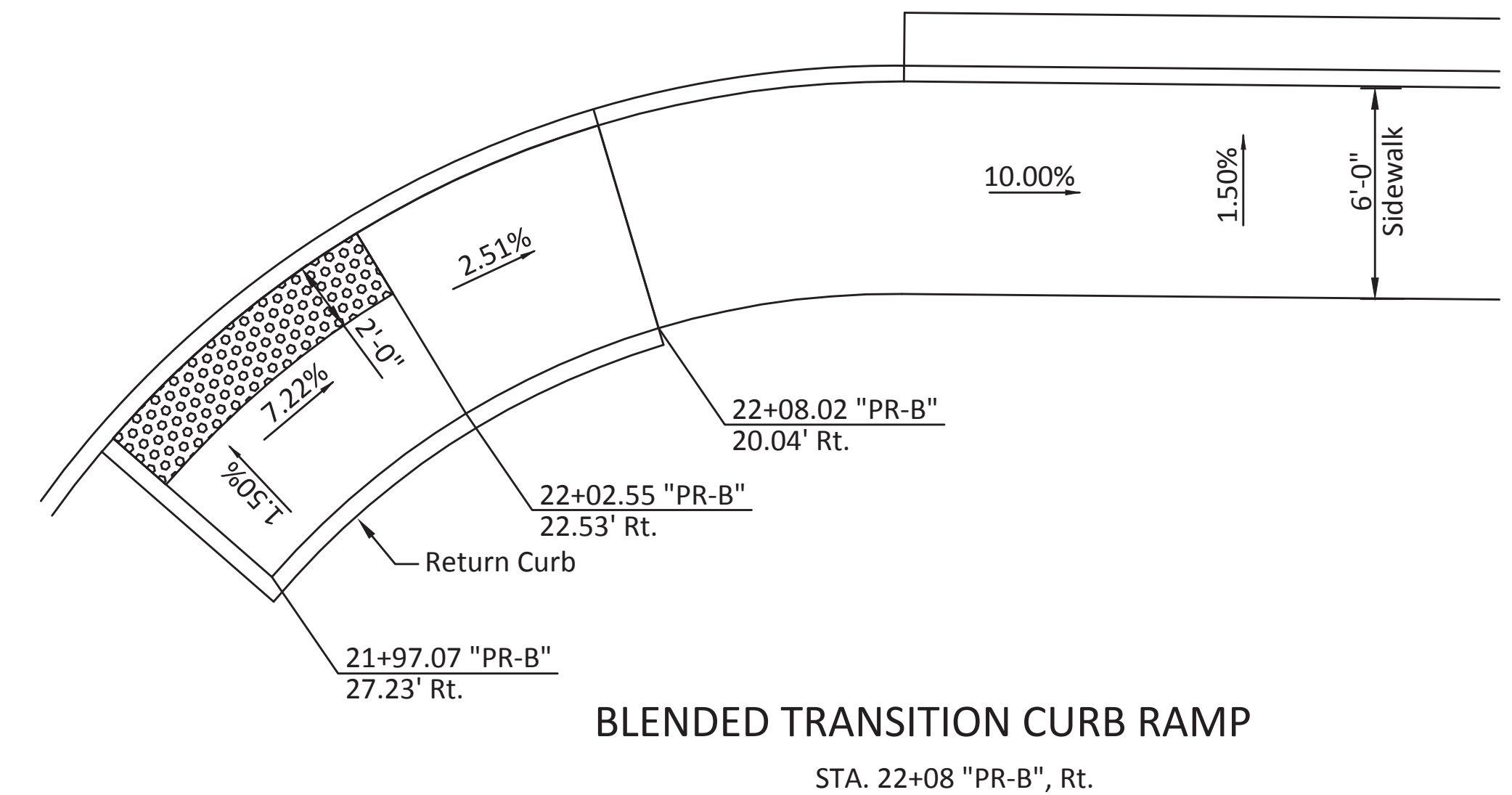
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP
ADJACENT TO NON-WALKABLE SURFACE
STA. 17+75 "PR-B", Lt.



PERPENDICULAR CURB RAMP
ADJACENT TO NON-WALKABLE SURFACE
STA. 17+89 "PR-B", Lt.
STA. 21+45 "PR-B", Lt.



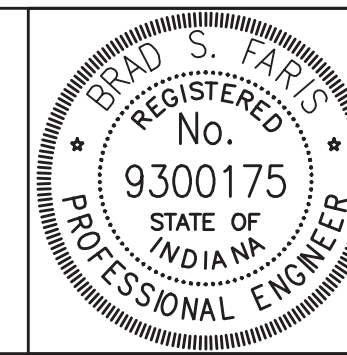
BLENDED TRANSITION CURB RAMP
STA. 21+24.21 "PR-B", Rt.



BLENDED TRANSITION CURB RAMP
STA. 22+08 "PR-B", Rt.

Note:
See INDOT Std. Dwg. E 604-SWCR-01 thru
E 604-SWCR-14 for Curb Ramp Details

FILE: SHT_CURB_RAMP_DETAIL-02.DWG
PLOTTED: Thursday, December 27, 2018 11:29:20 AM

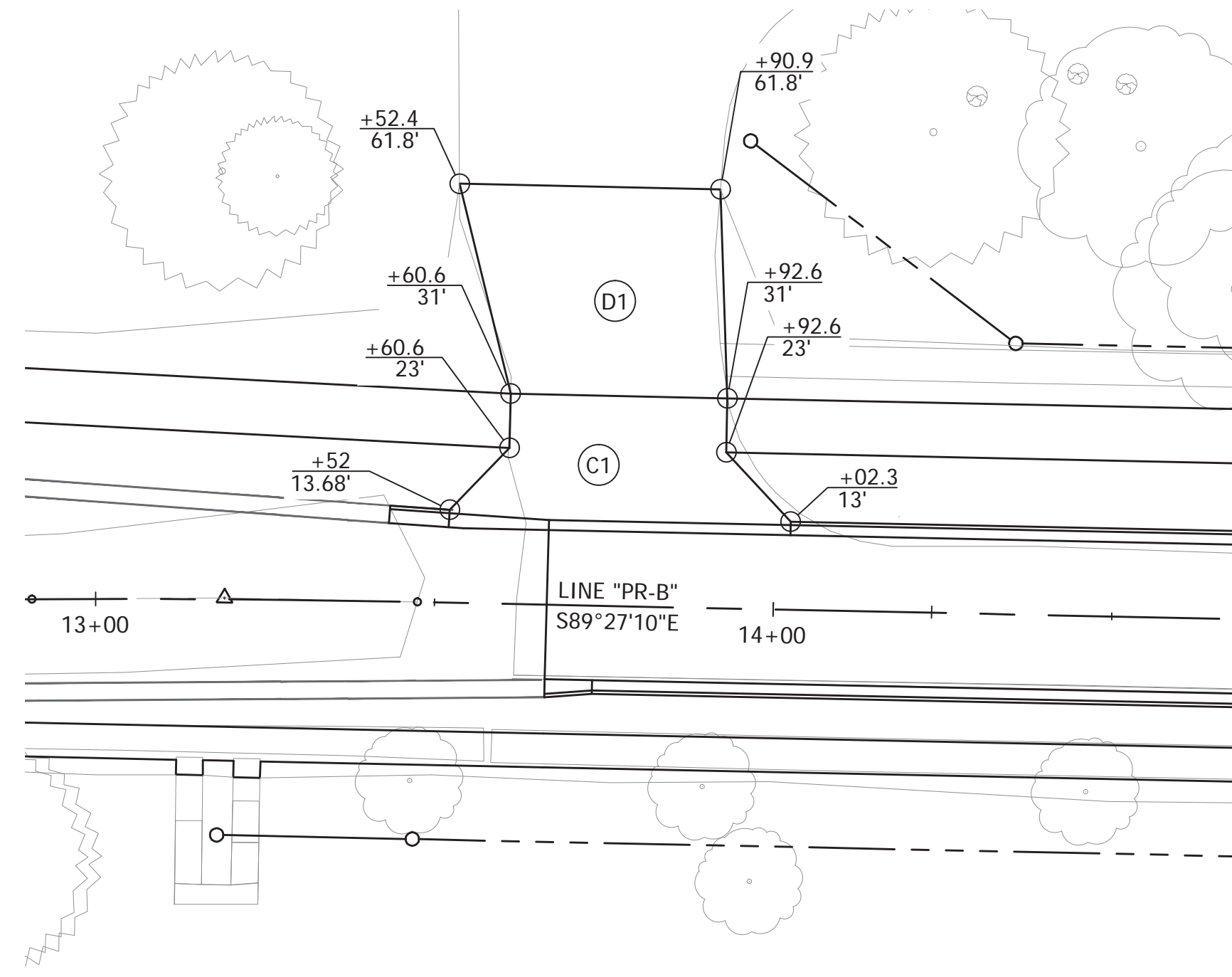


RECOMMENDED FOR APPROVAL	<i>Brad S. Fain</i>	12/28/2018
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

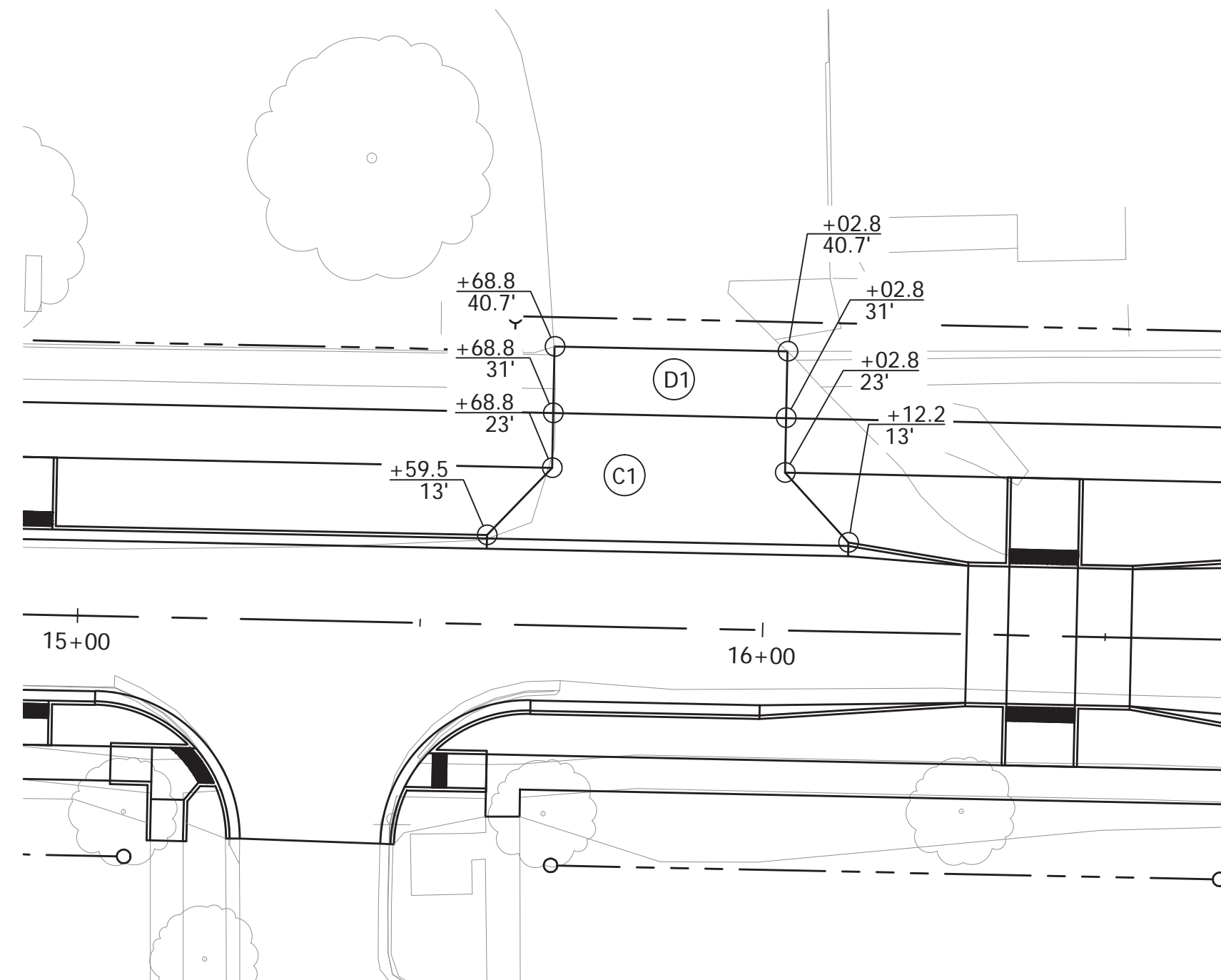
CITY OF BLOOMINGTON
MISCELLANEOUS DETAILS

SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	25 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

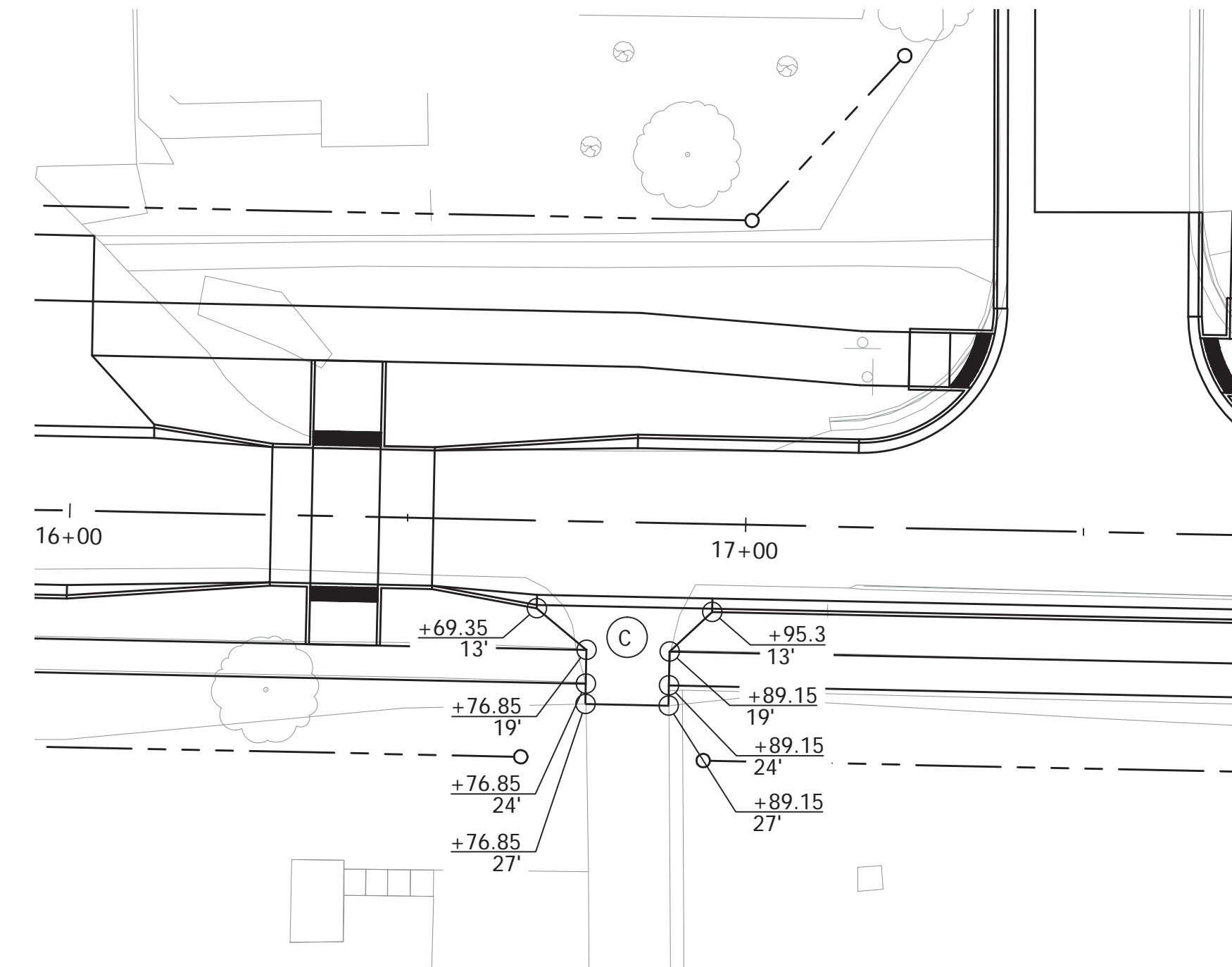
Note:
For driveway profile information see Cross Sections.



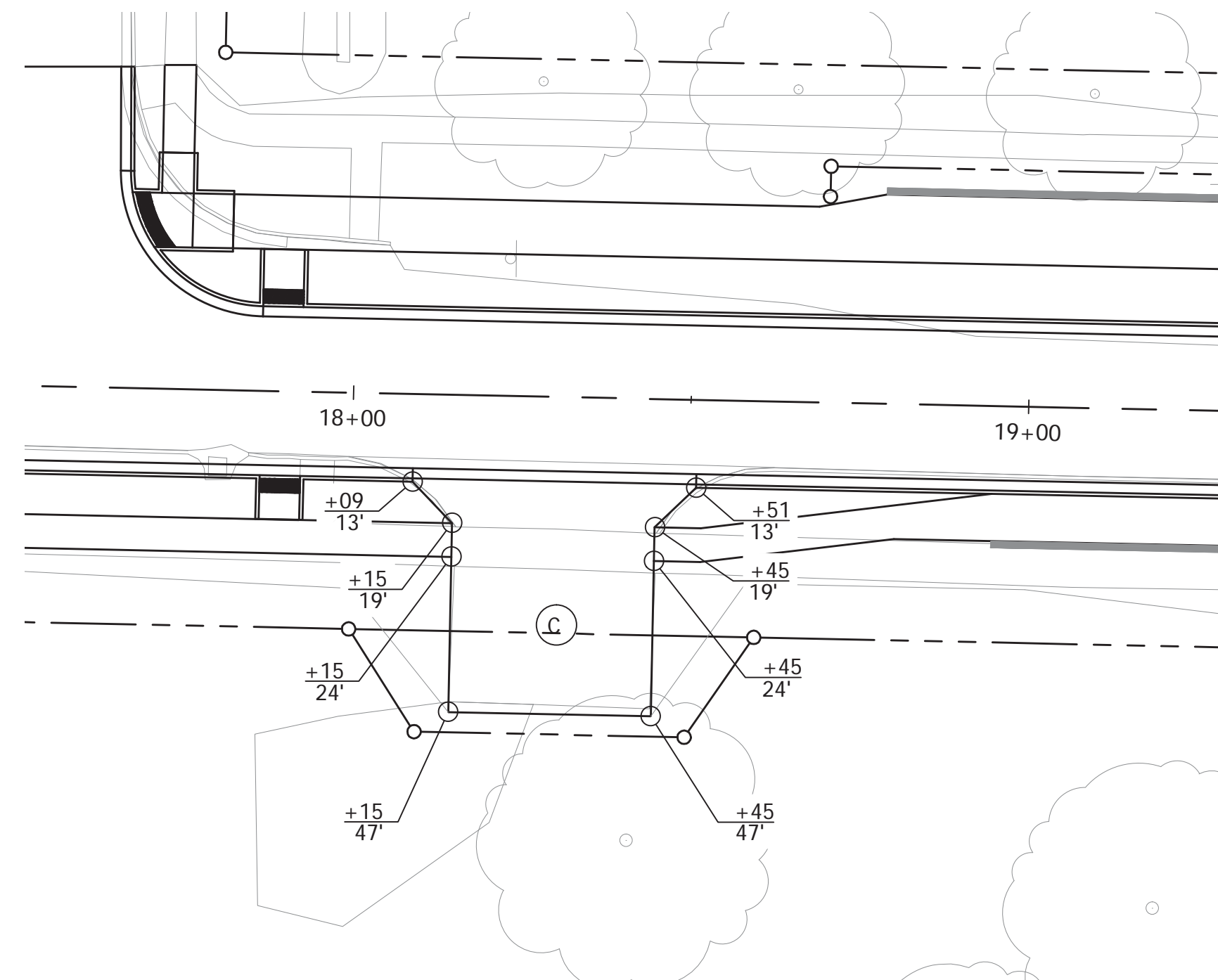
STA. 13+76.6 Lt.



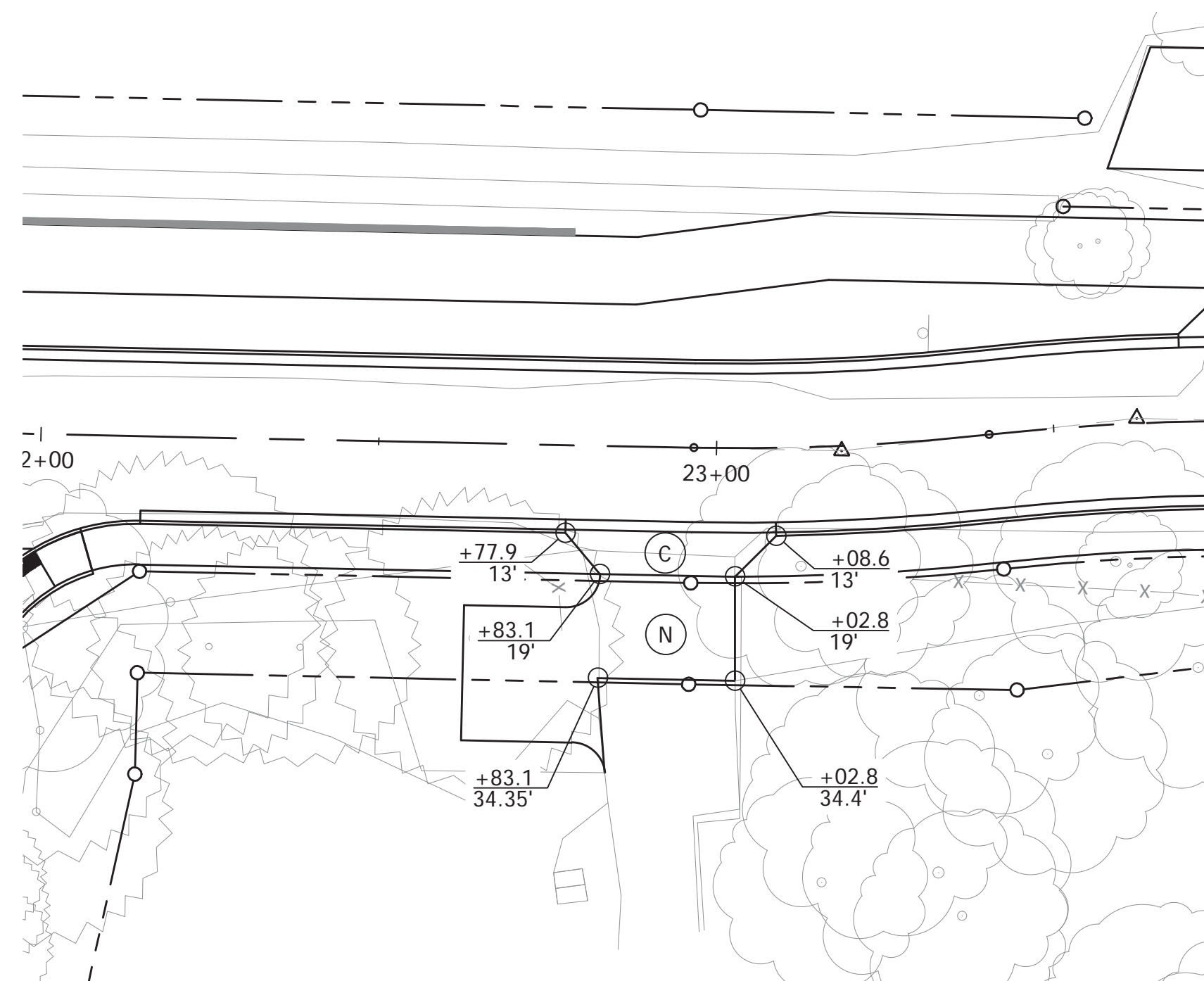
STA. 15+85.8 Lt.



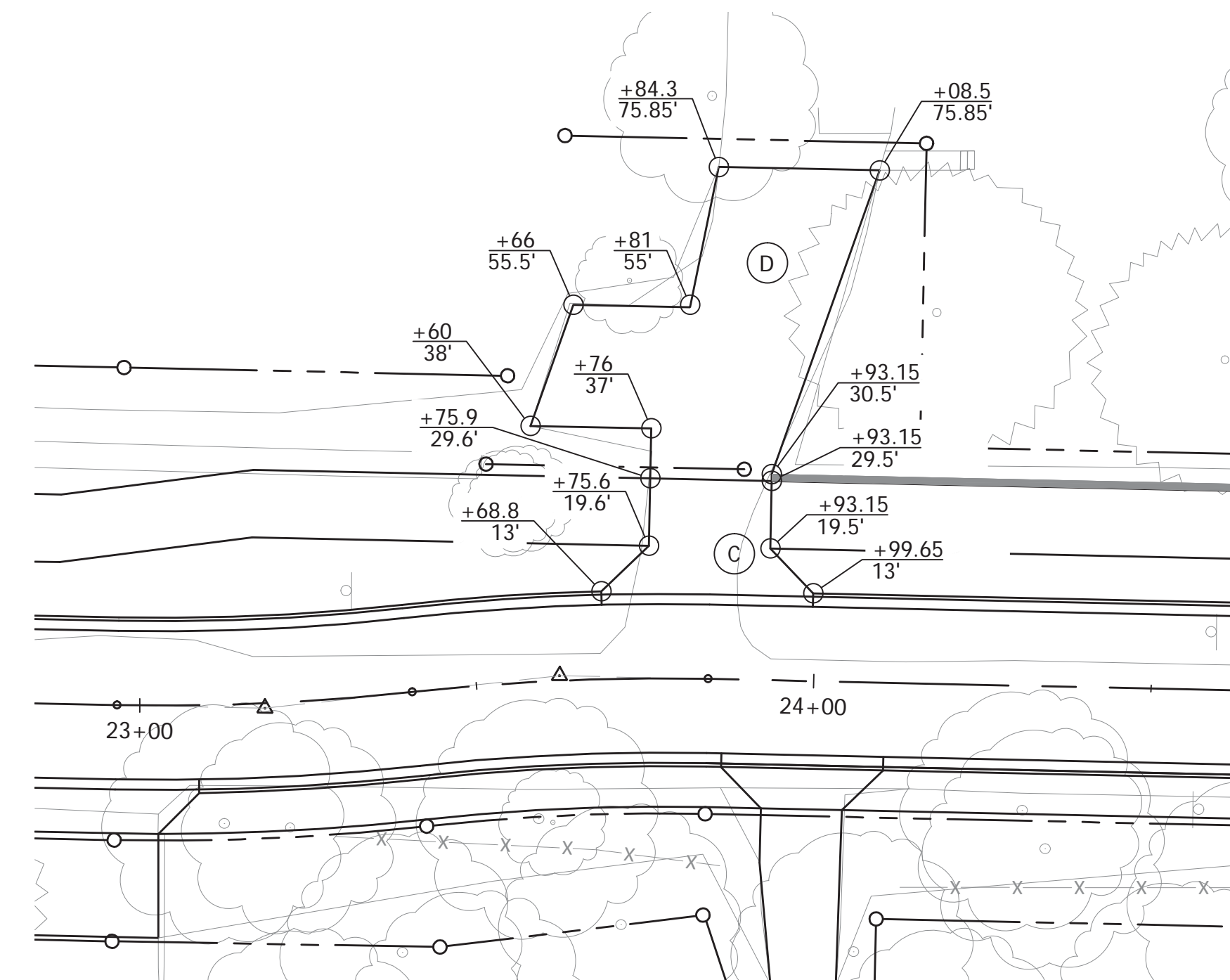
STA. 16+83.0 Rt.



STA. 18+30.0 Rt.



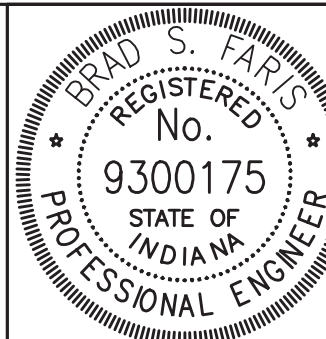
STA. 22+93.1 Rt.



STA. 23+84.1 Lt.

Note:
See Curb Transition at Driveway detail, Sheet 28

- (C) PCCP for Approaches, 6 In. on Subgrade Treatment, Type II
- (C1) PCCP for Approaches, 9 In. on Subgrade Treatment, Type II
- (D) 550 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface, Type B on
275 #/syd HMA Intermediate, Type B on
880 #/syd HMA Base, Type B on
Subgrade Treatment, Type II
- (D1) 1320 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface, Type B on
275 #/syd HMA Intermediate, Type B on
880 #/syd HMA Base, Type B on
Subgrade Treatment, Type II
- (N) 6" Compacted Aggregate for Surface, No. 73



RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/2018
DESIGNED:	BSF	DRAWN:
CHECKED:	BSF	CHECKED:
		WNG
		LAR

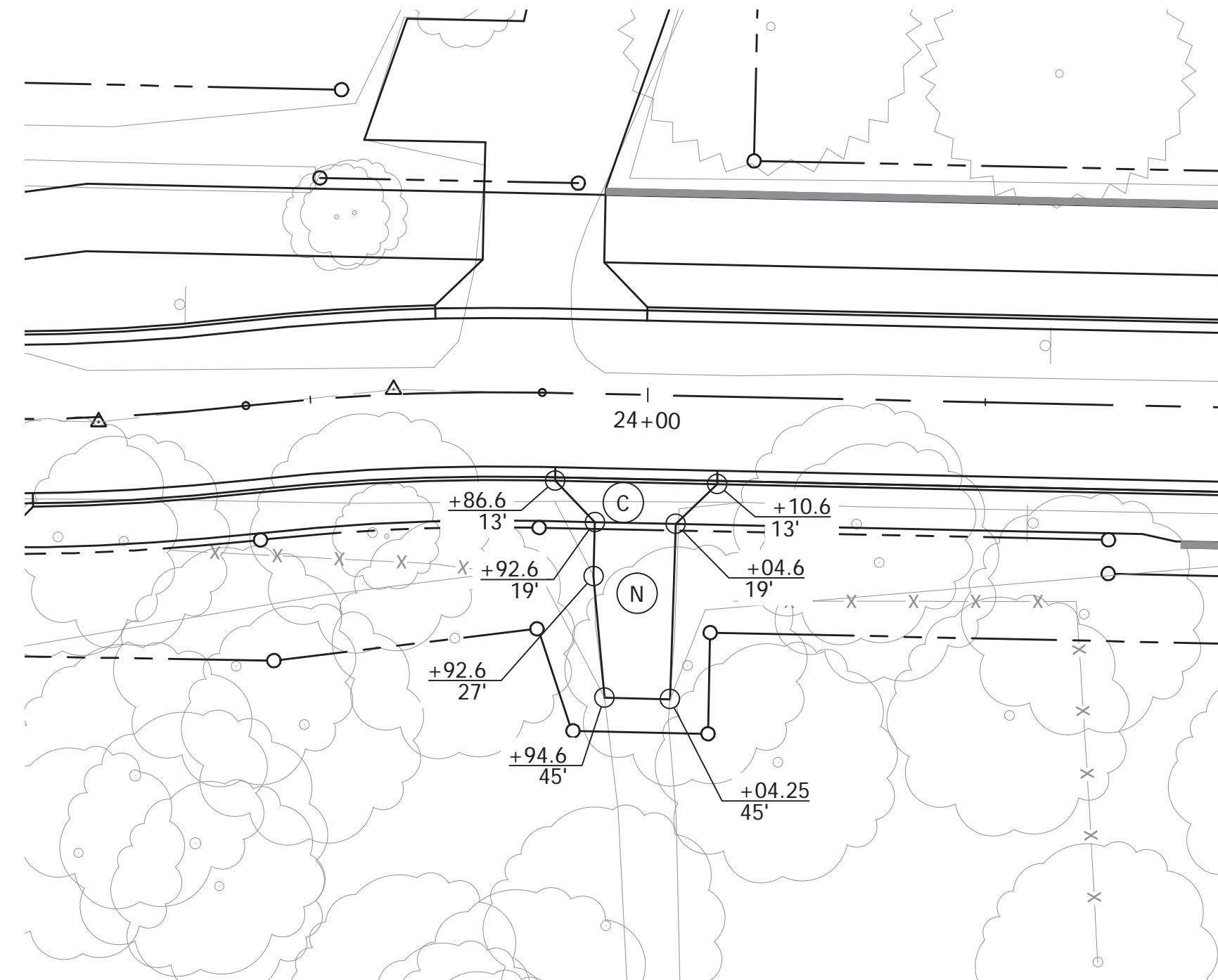
CITY OF BLOOMINGTON

DRIVEWAY DETAILS

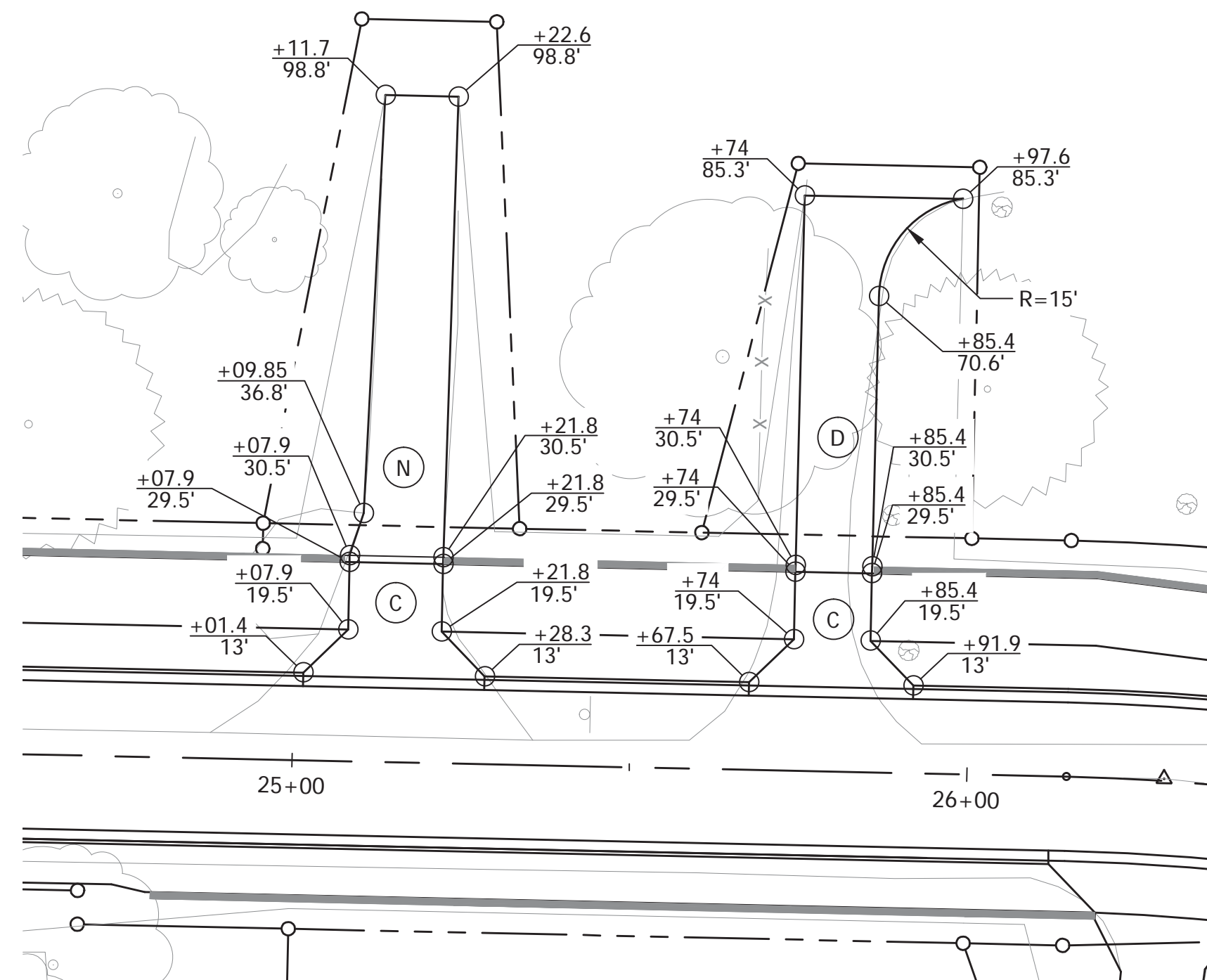
SCALE	BRIDGE FILE
1"=20'	N/A
SURVEY BOOK	DESIGNATION
N/A	N/A
CONTRACT	SHEETS
N/A	26 of 100
	PROJECT
	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, December 27, 2018 11:37:33 AM

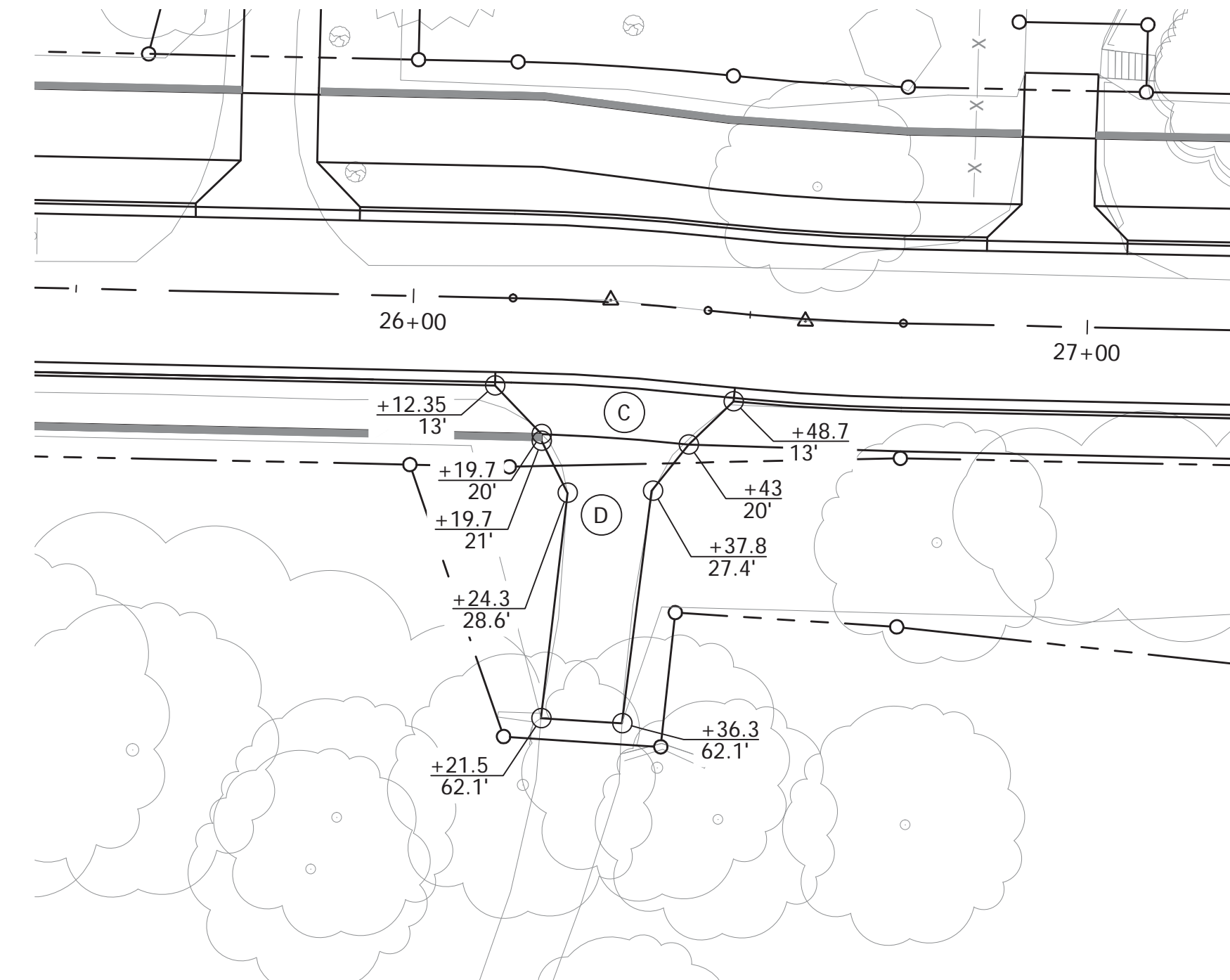
Note:
For driveway profile information see Cross Sections.



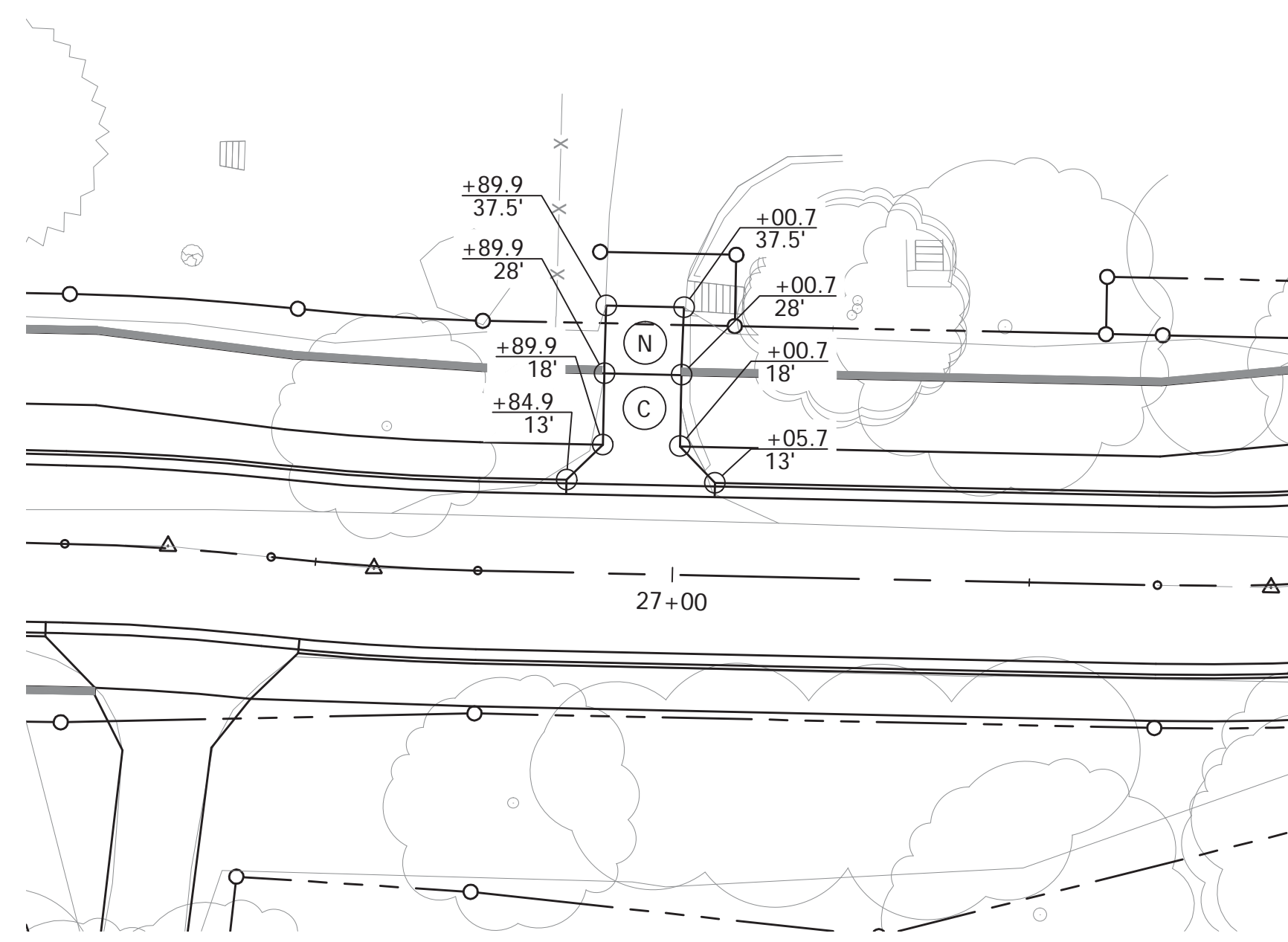
STA. 23+98.6 Rt.



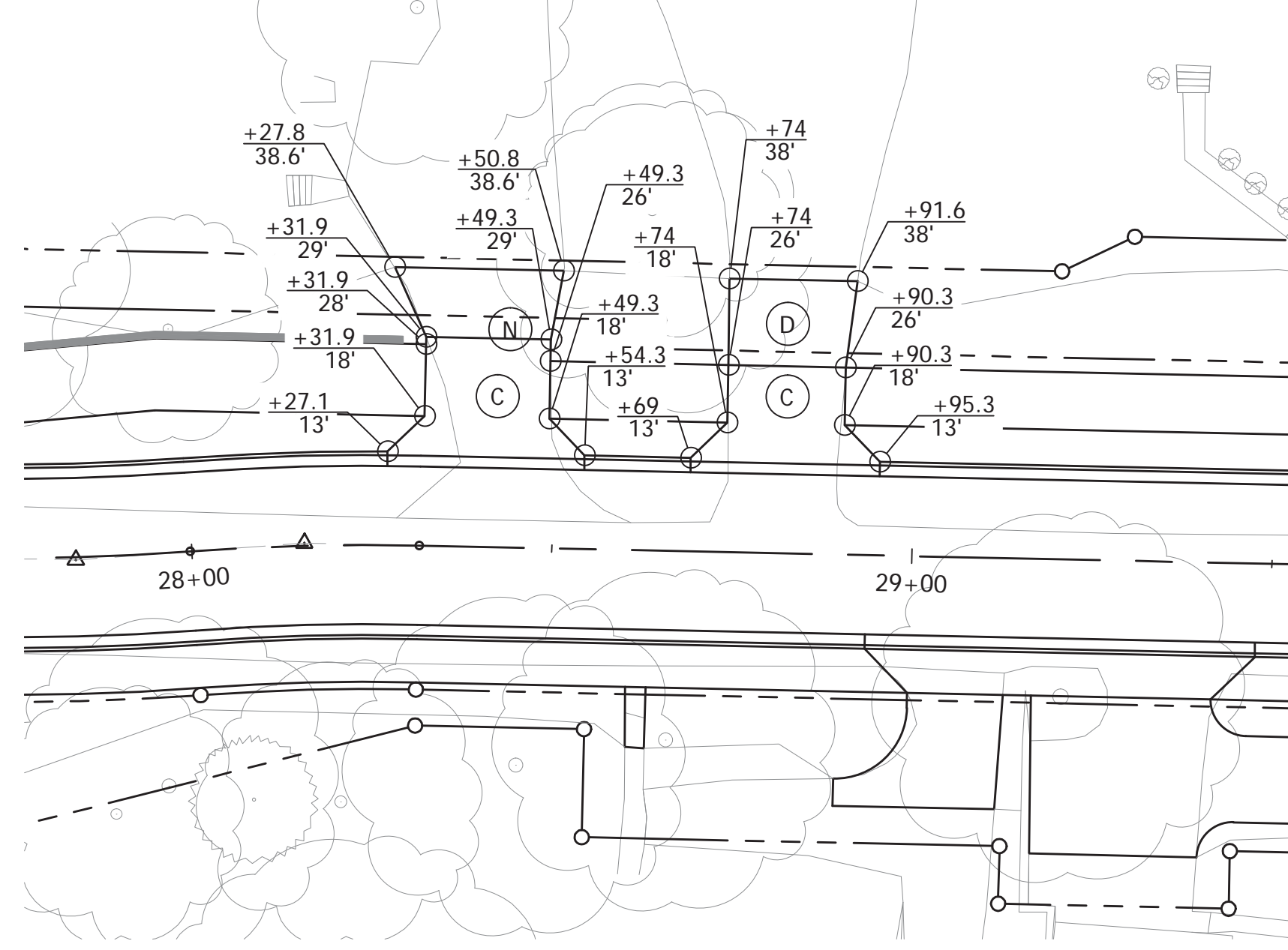
STA. 25+14.9 Lt. & STA. 25+79.6 Lt.



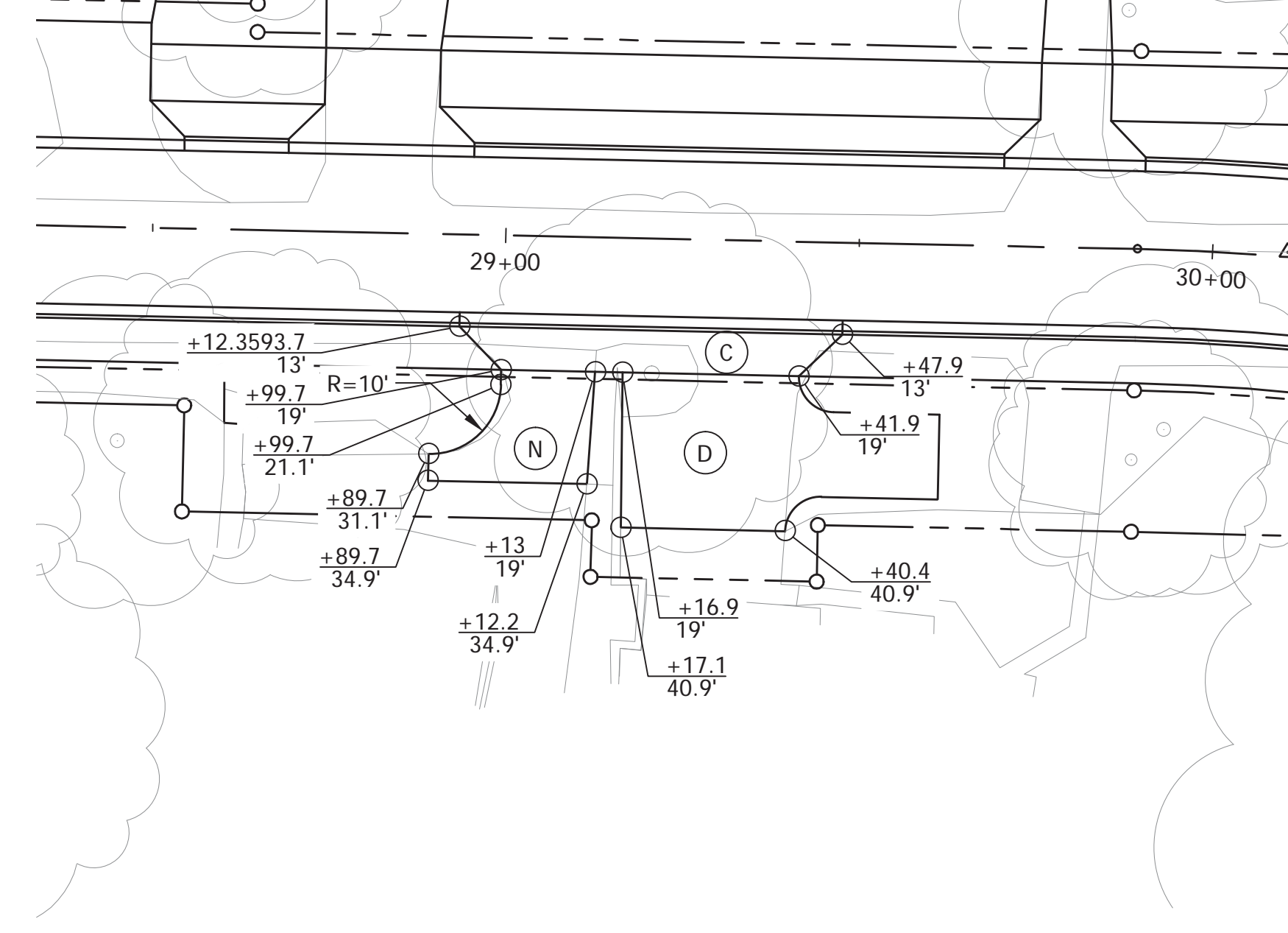
STA. 26+29.6 Rt.



STA. 26+95.3 Lt.



STA. 28+41.2 Lt. & STA. 28+82.1 Lt.

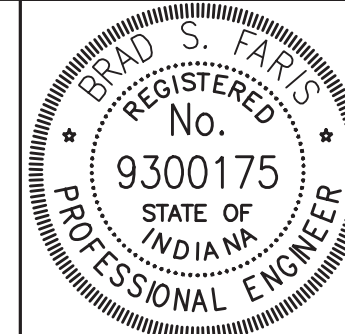


STA. 29+06.4 Rt. & STA. 29+29.4 Rt.

Note:
See Curb Transition at Driveway detail, Sheet 28

PLOTTED: Thursday, December 27, 2018 11:41:49 AM

- (C) PCCP for Approaches, 6 In. on Subgrade Treatment, Type II
- (C1) PCCP for Approaches, 9 In. on Subgrade Treatment, Type II
- (D) 550 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface, Type B on
275 #/syd HMA Intermediate, Type B on
880 #/syd HMA Base, Type B on
Subgrade Treatment, Type II
- (D1) 1320 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface, Type B on
275 #/syd HMA Intermediate, Type B on
880 #/syd HMA Base, Type B on
Subgrade Treatment, Type II
- (N) 6" Compacted Aggregate for Surface, No. 73

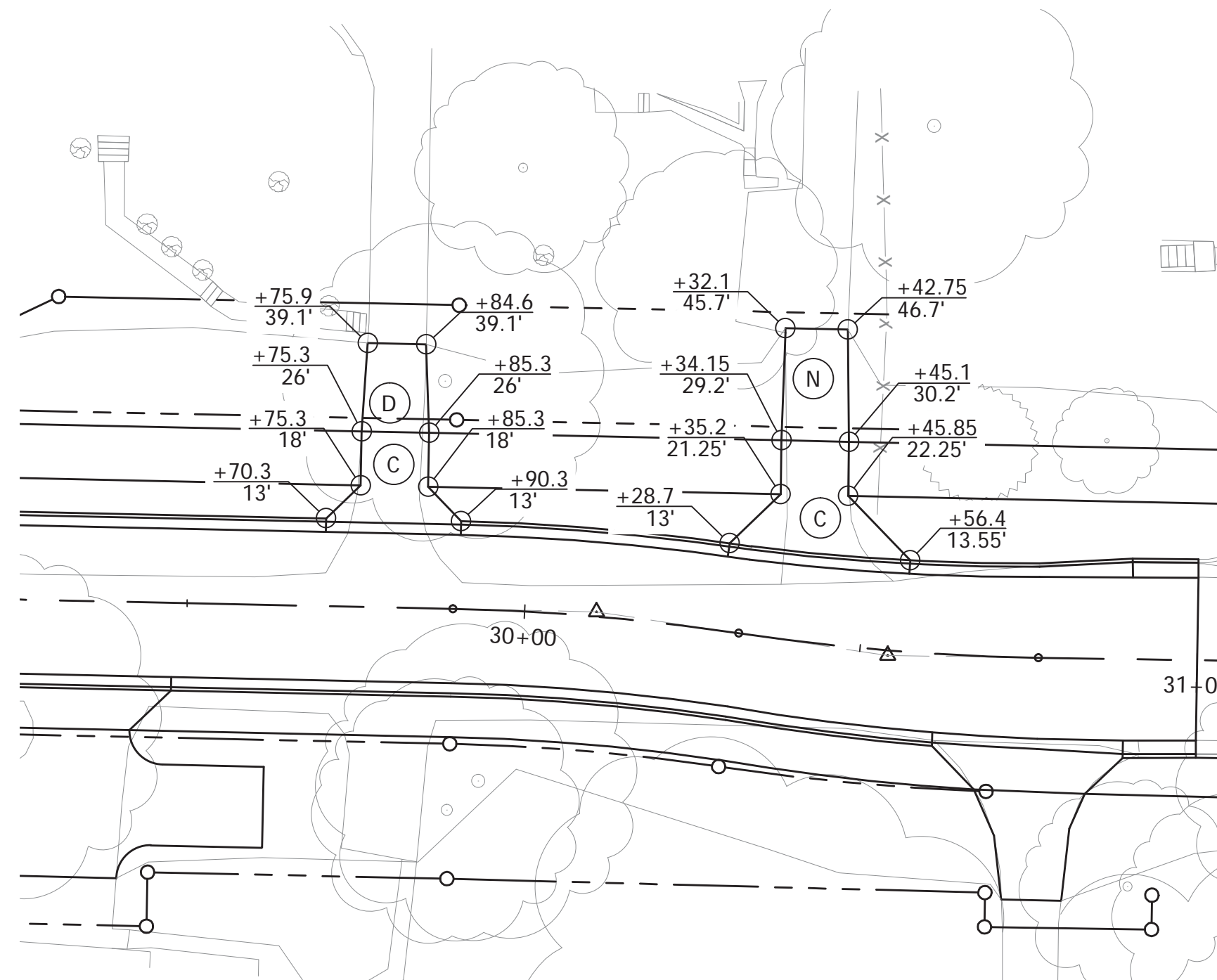


RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: WNG	
CHECKED: BSF	CHECKED: LAR	

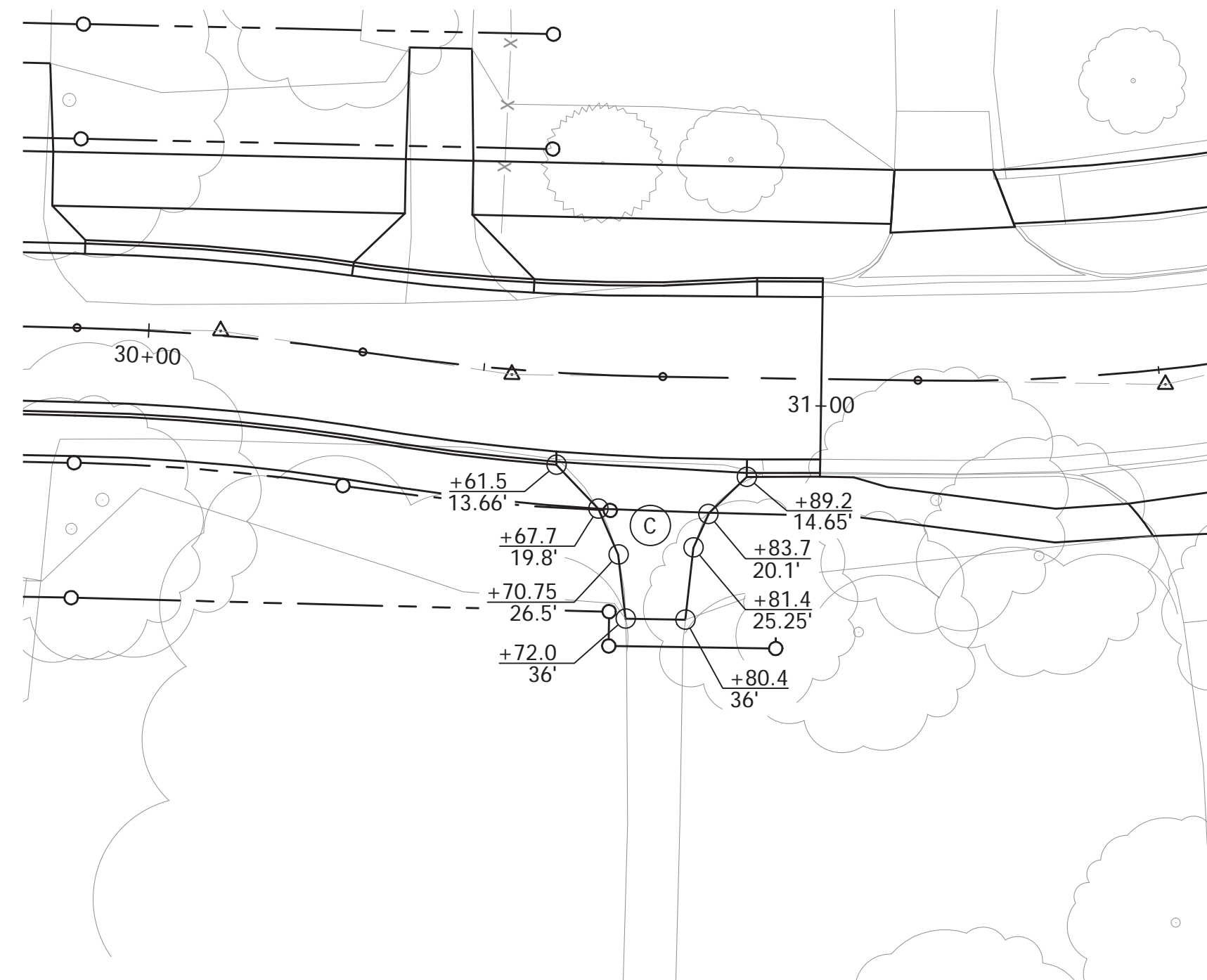
CITY OF BLOOMINGTON	
DRIVEWAY DETAILS	

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	27 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

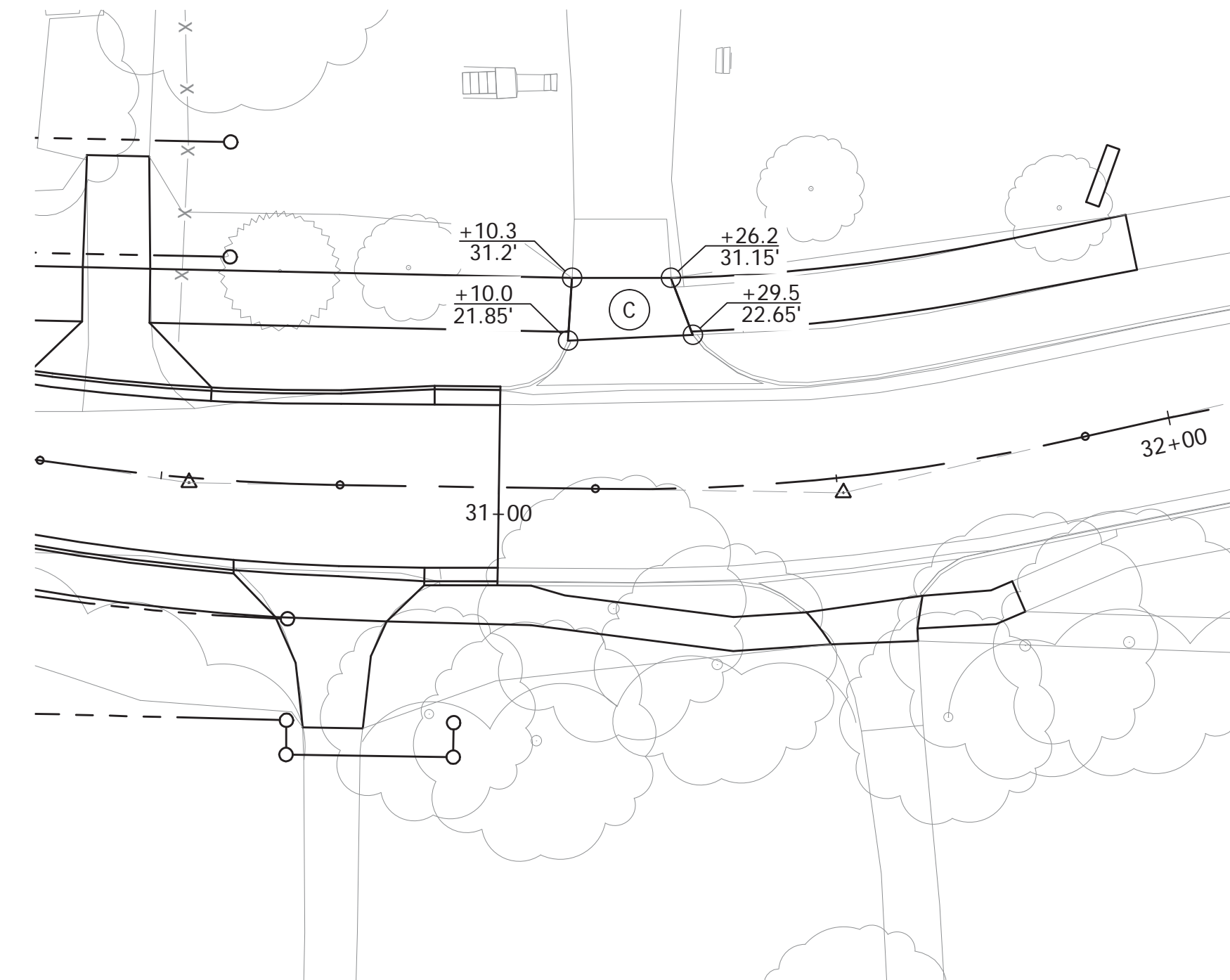
Note:
For driveway profile information see Cross Sections.



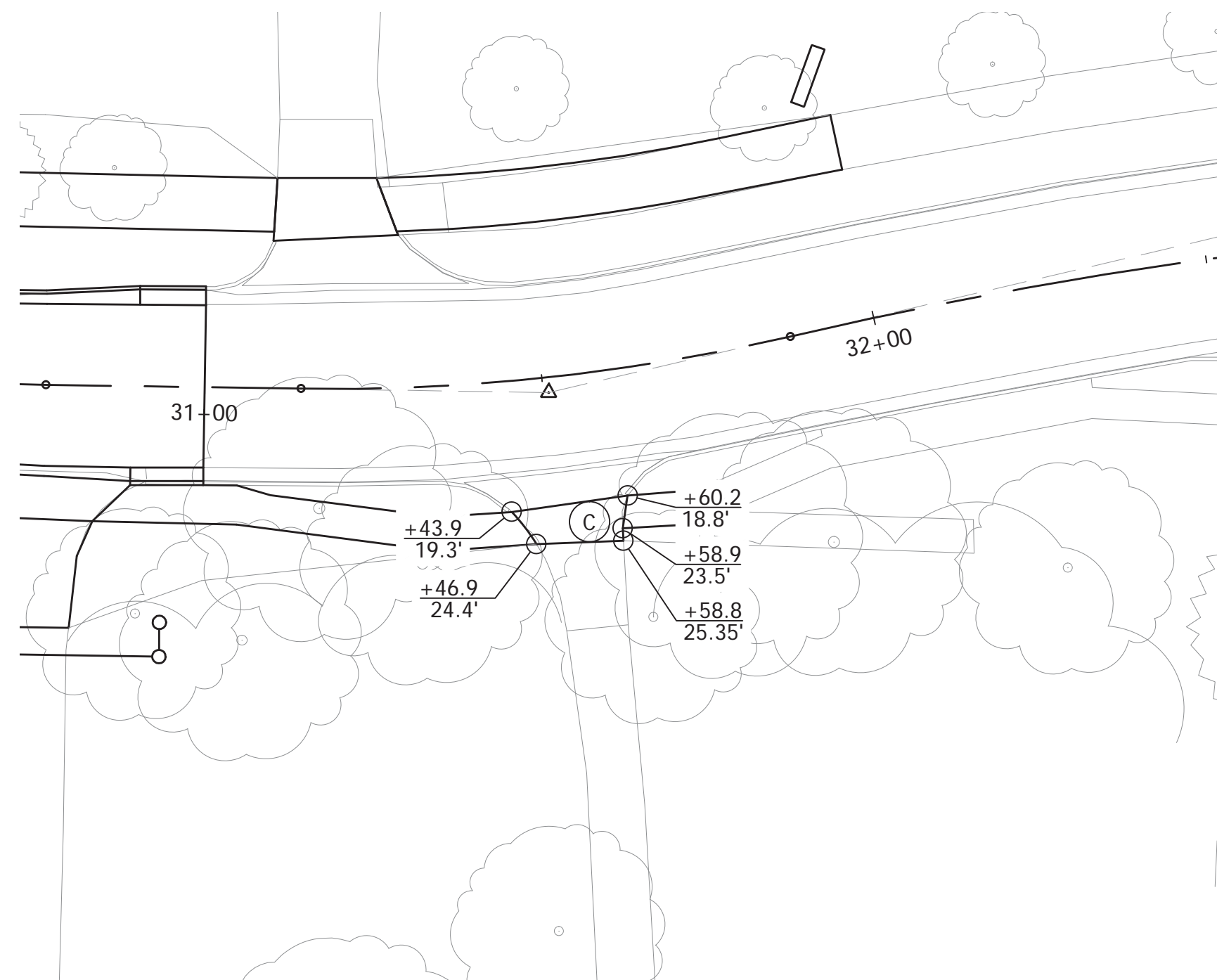
STA. 29+80.3 Lt. & STA. 30+39.6 Lt.



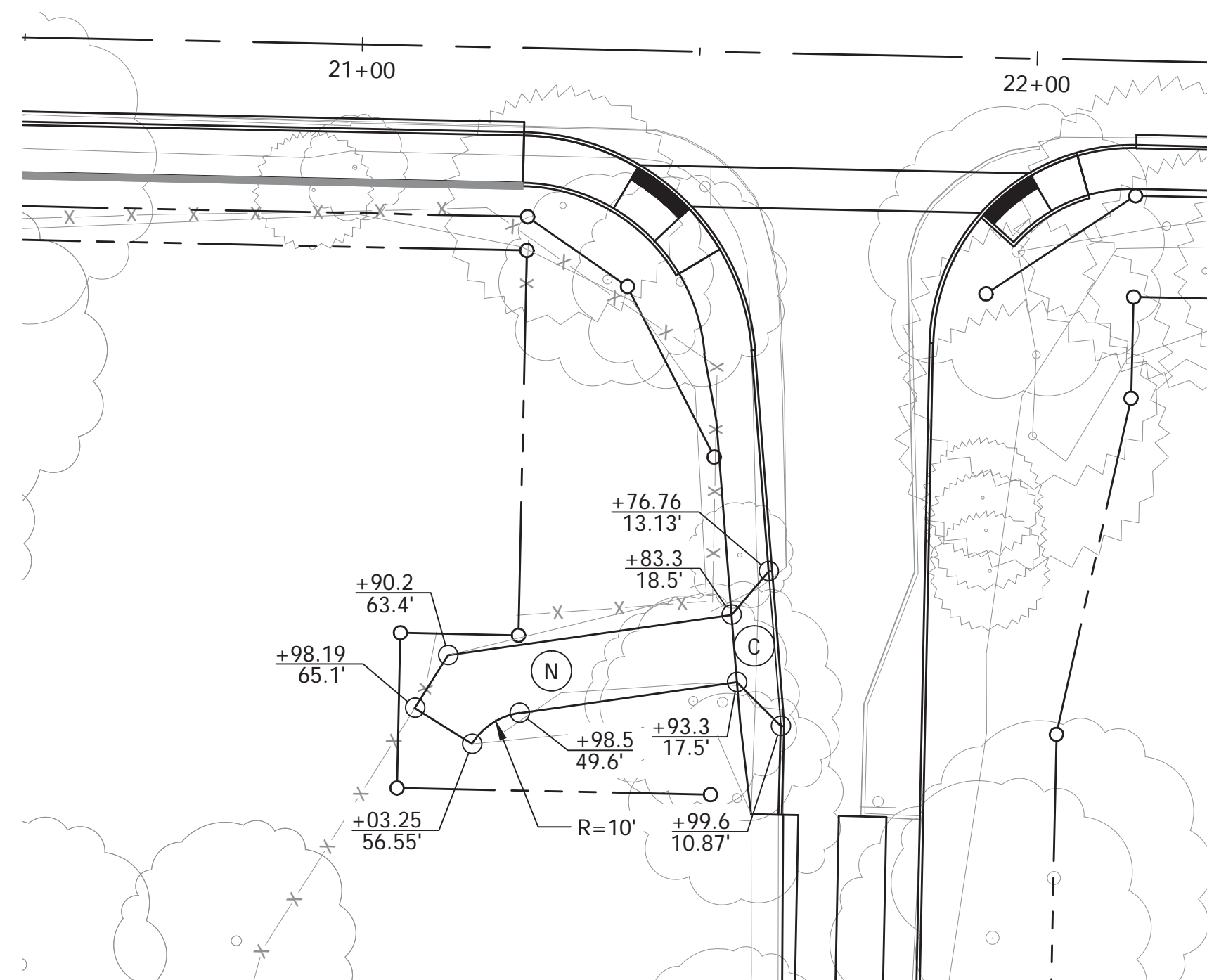
STA. 30+75.7 Rt.



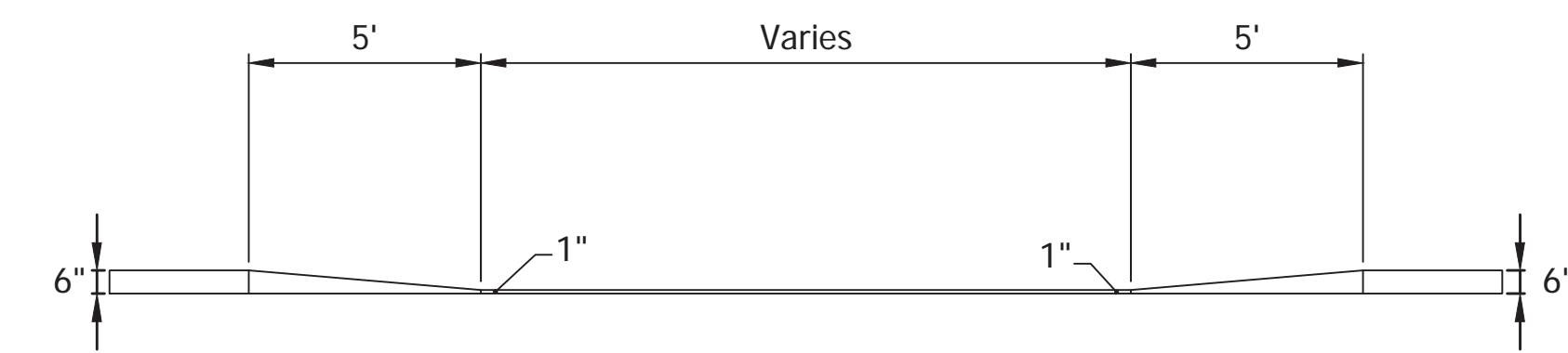
STA. 31+18.0 Lt.



STA. 31+52.8 Rt.



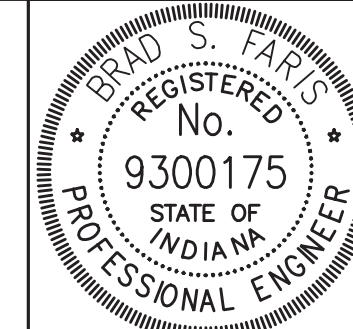
STA. 100+88.3 "S-1-PR-B" Rt.



Note:
See Curb Transition at Driveway detail, Sheet 28

PLOTTED: Thursday, December 27, 2018 11:45:38 AM

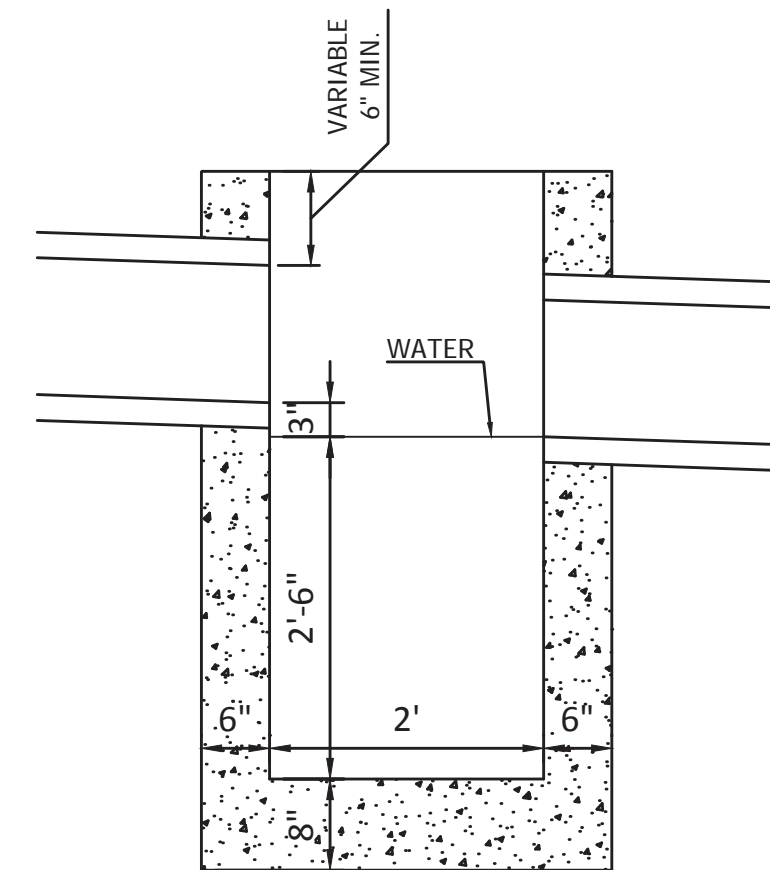
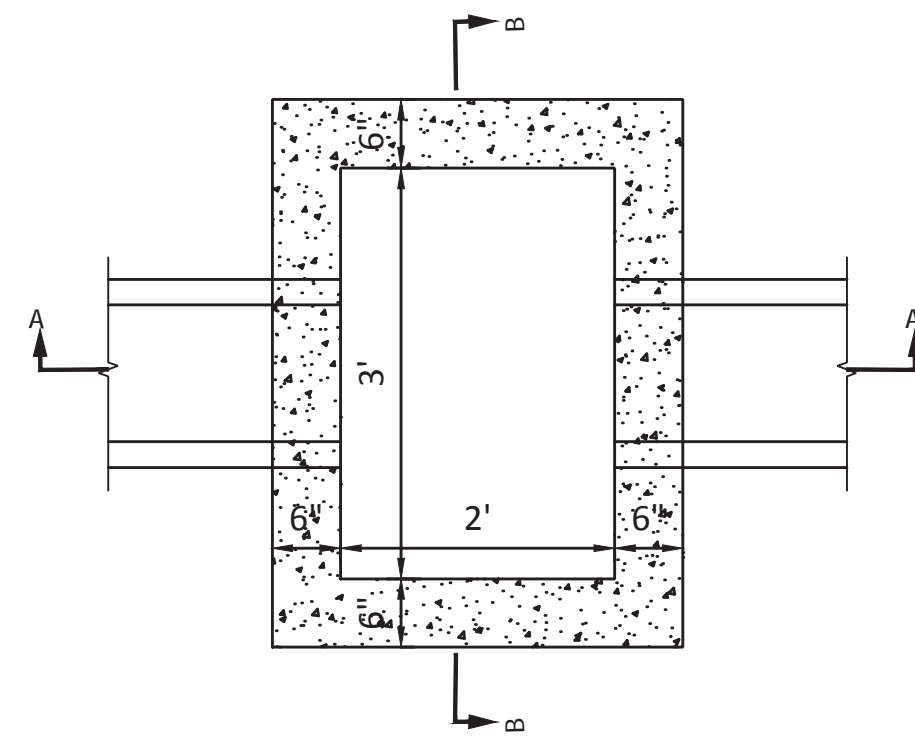
- (C) PCCP for Approaches, 6 In. on Subgrade Treatment, Type II
- (C1) PCCP for Approaches, 9 In. on Subgrade Treatment, Type II
- (D) 550 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface, Type B on 275 #/syd HMA Intermediate, Type B on 880 #/syd HMA Base, Type B on Subgrade Treatment, Type II
- (D1) 1320 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface, Type B on 275 #/syd HMA Intermediate, Type B on 880 #/syd HMA Base, Type B on Subgrade Treatment, Type II
- (N) 6" Compacted Aggregate for Surface, No. 73



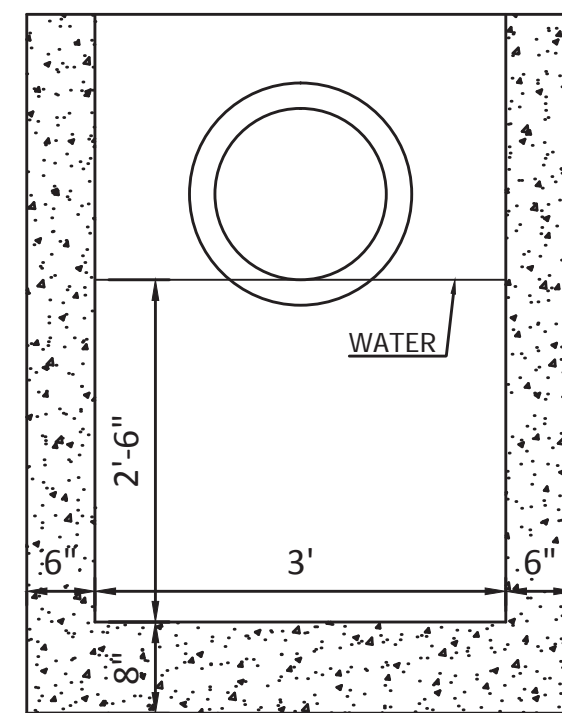
RECOMMENDED FOR APPROVAL	<i>Brad S. Farris</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: WNG	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON	
DRIVEWAY DETAILS	

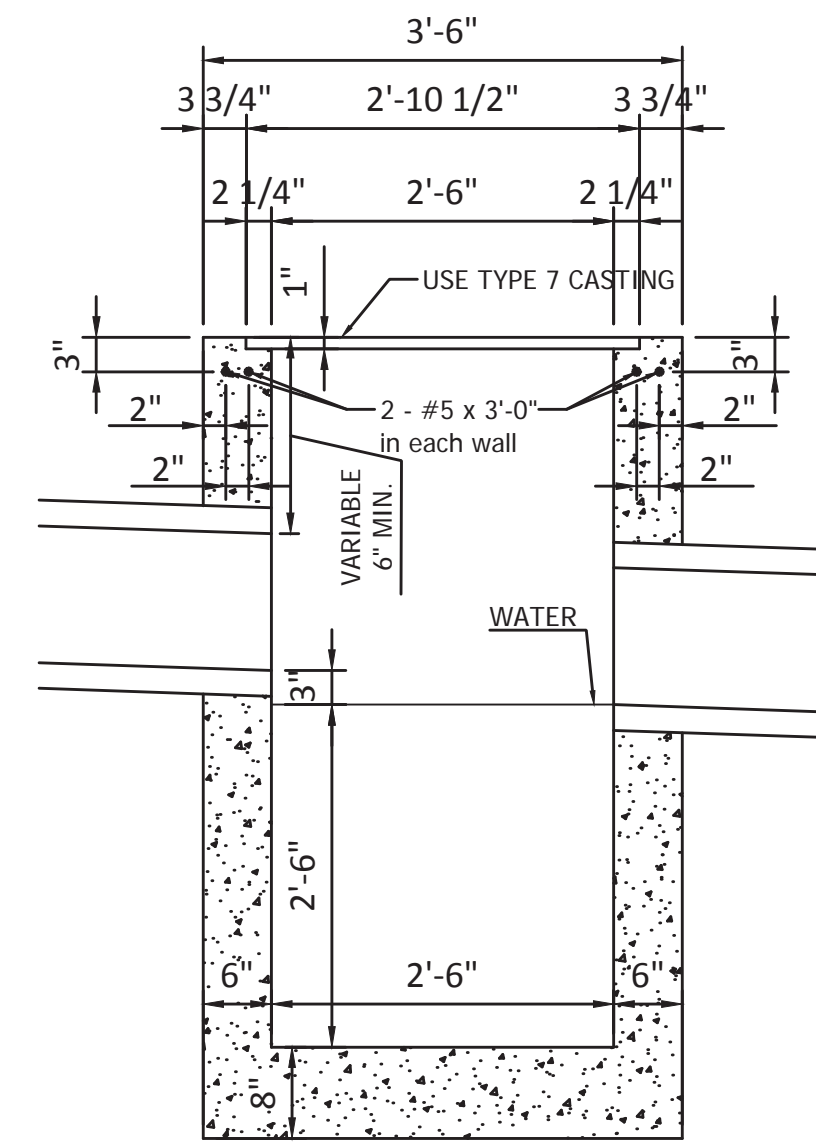
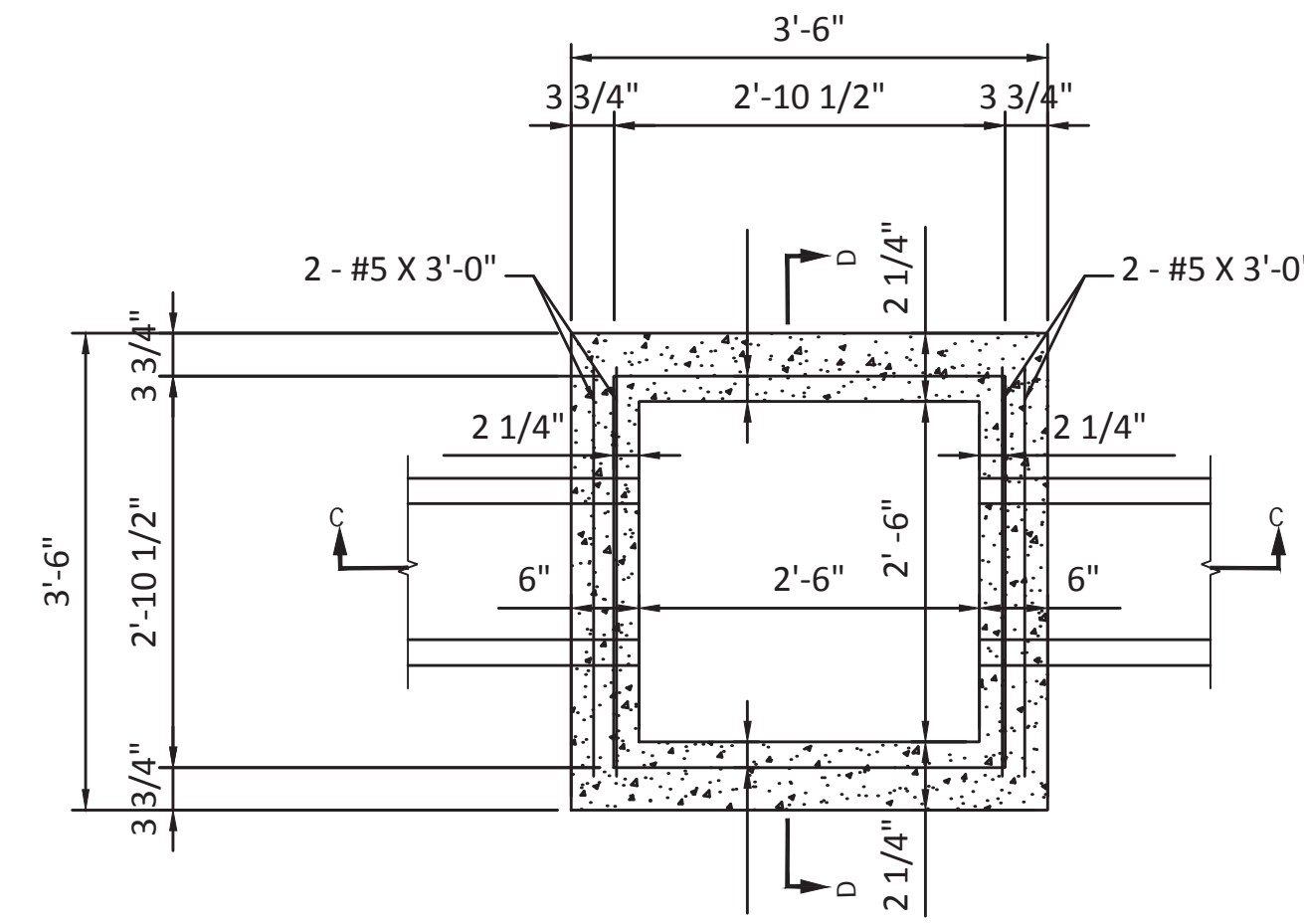
SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	28 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



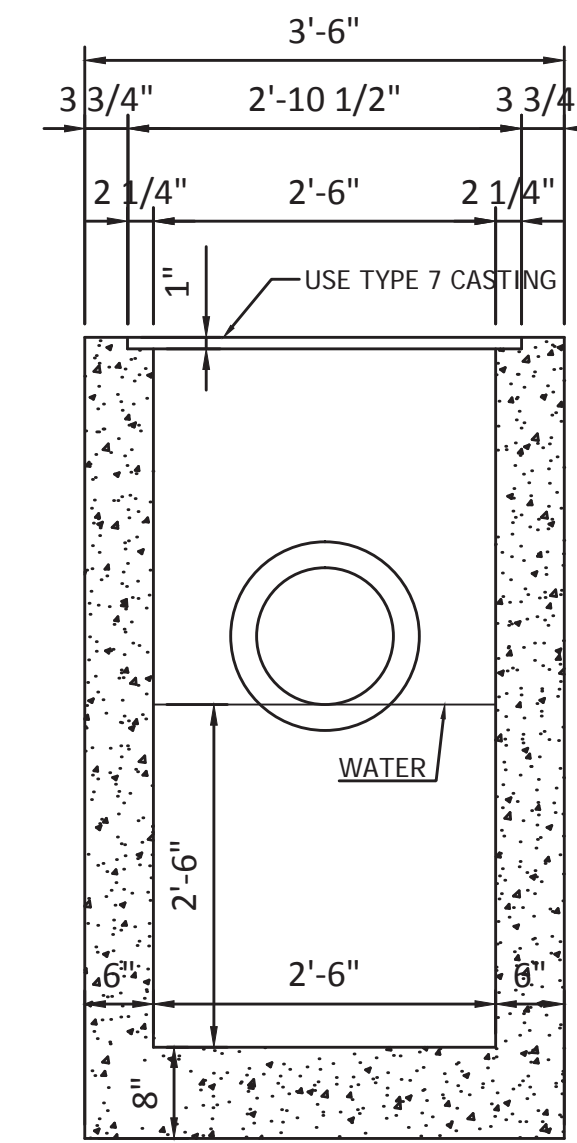
SECTION A-A



SECTION B-B



SECTION C-C



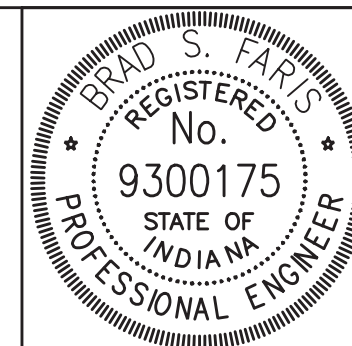
SECTION D-D

Catch Basin Type M

Catch Basin Type F

P:\PLOT_DRAWING_TIMES_SAM.PWS

FILES



RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON
STORM BASIN DETAILS

SCALE	BRIDGE FILE
N.T.S.	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	29 of 81
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

Notes:
 Line "PR-B" to be constructed.
 For additional Alignment Information See Geometric Tie-In Sheet.
 All R/W Described from Line "PR-B" unless otherwise noted.
 All R/W on this sheet to be as shown.

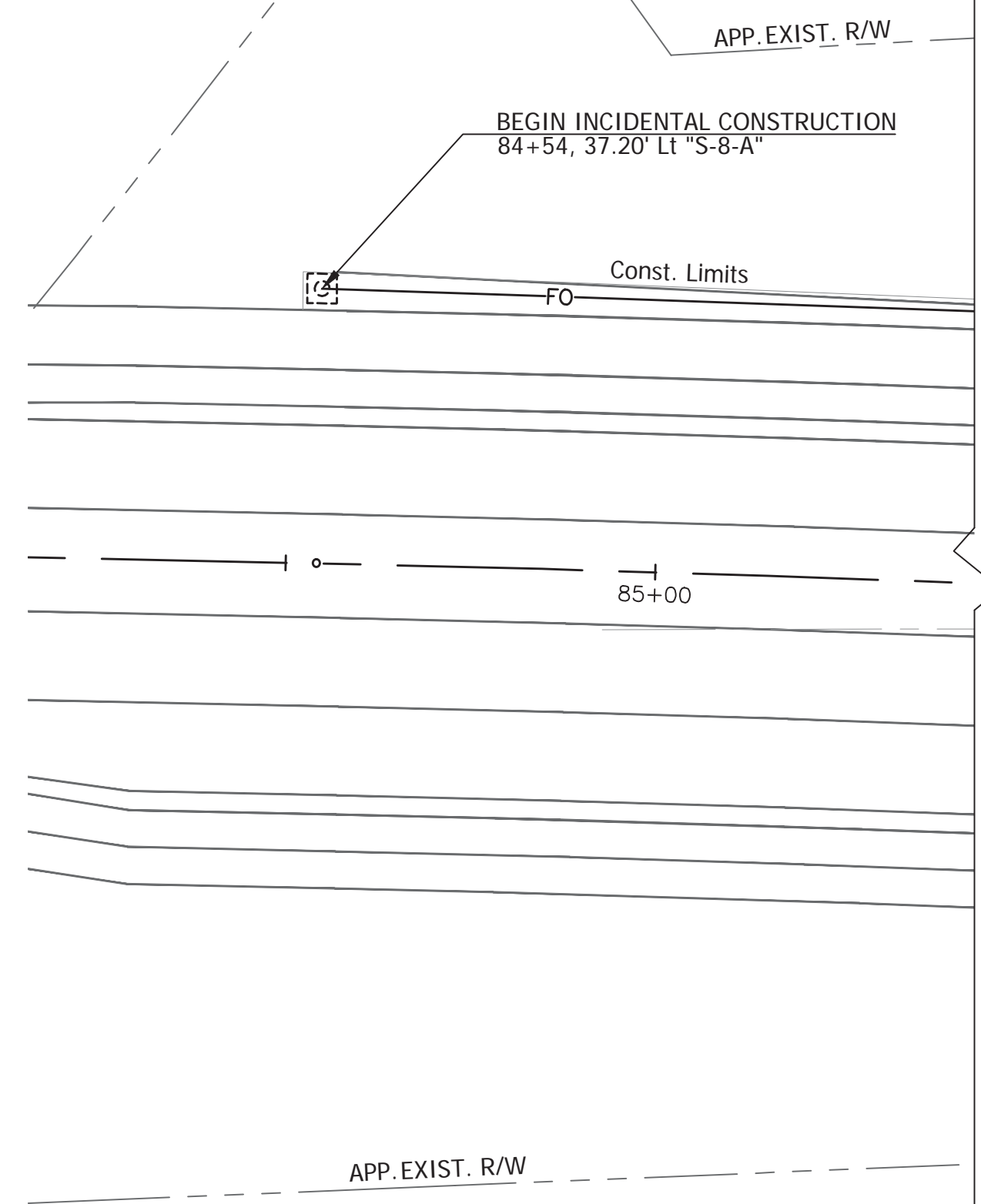
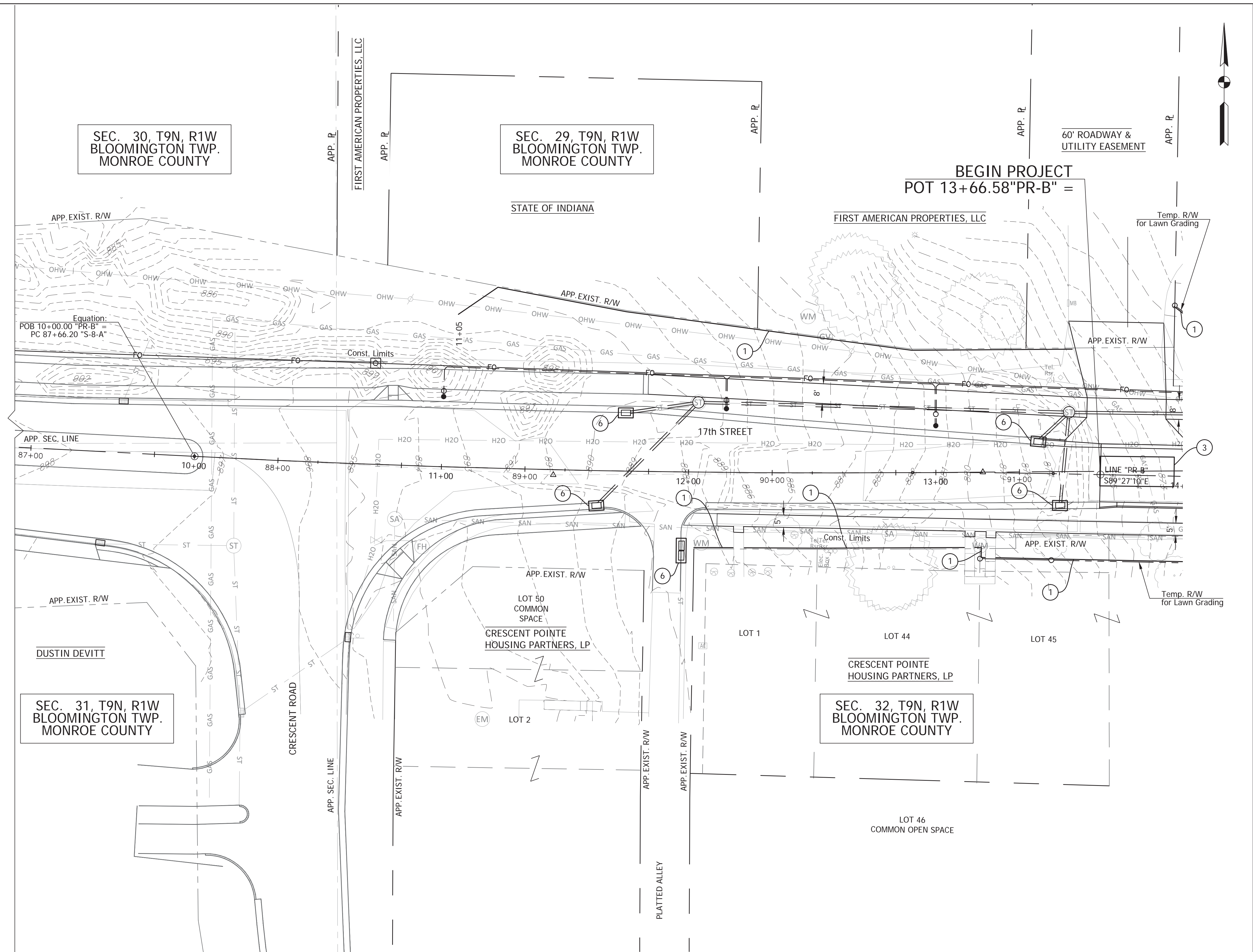


SEC. 30, T9N, R1W
 BLOOMINGTON TWP.
 MONROE COUNTY

SEC. 29, T9N, R1W
 BLOOMINGTON TWP.
 MONROE COUNTY

60' ROADWAY &
 UTILITY EASEMENT

BEGIN PROJECT
 POT 13+66.58"PR-B" =



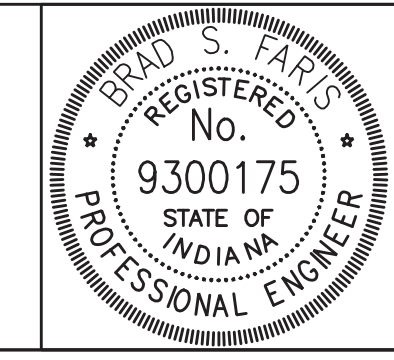
Equation:
 POB 10+00.00 "PR-B" =
 PC 87+66.20 "S-8-A"

PLOTTED: Friday, December 28, 2018 11:28:25 AM

EROSION CONTROL LEGEND

Note:
 Existing and proposed storm water inlets exist under differing conditions during construction. In certain inlet locations multiple types of erosion control measures are warranted. Multiple legend notes are shown on the SWPPP plans when more than one application is needed.

- ① Temporary Silt Fence (E 205-TECP-02)
- ② Temporary Check Dam, Revetment Riprap (E 205-TECD-01)
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- ④ Temporary Ditch Inlet Protection, Gravel Ring (E 205-TECI-01)
- ⑤ Temporary Ditch Inlet Protection, Geotextile Box (E 205-TECI-02)
- ⑥ Temporary Erosion Control Inlet, Sandbag Curb Inlet Protection (E 205-TECI-05)
- ⑦ Temporary Seed Mixture = 2.0 X permanent seeding area
- ⑧ Temporary Mulch = temp seed area



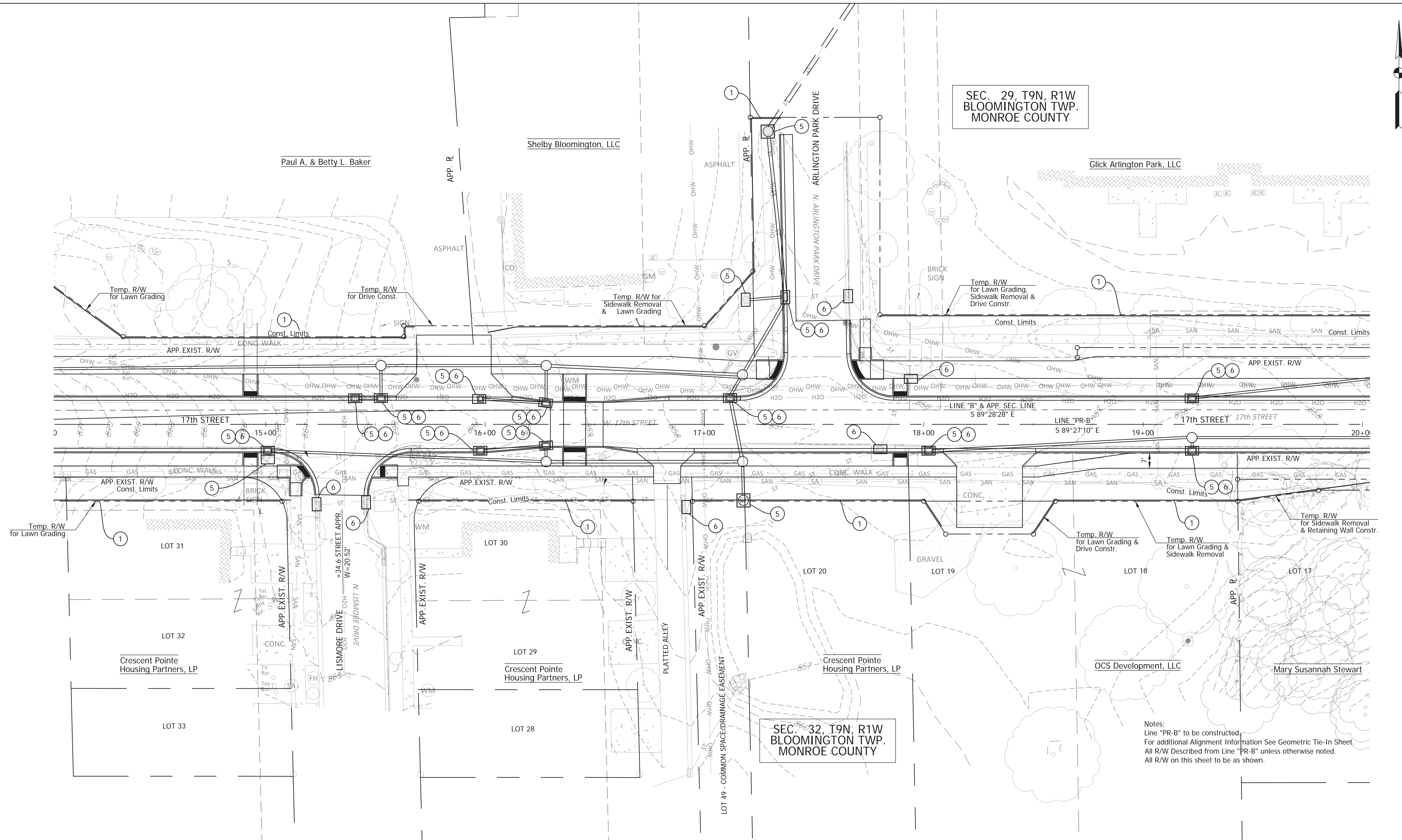
RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/2018
DESIGNED:	BSF	DATE
CHECKED:	BSF	
DRAWN:	BSF	
CHECKED:	LAR	

CITY OF BLOOMINGTON

EROSION CONTROL DETAILS
 STA 10+00 TO STA 14+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	30 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY



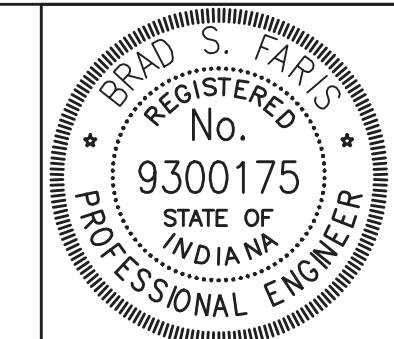
SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

Notes:
Line "PR-B" to be constructed.
For additional Alignment Information See Geometric Tie-In Sheet.
All R/W Described from Line "PR-B" unless otherwise noted.
All R/W on this sheet to be as shown.

EROSION CONTROL LEGEND

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- ③ Temporary Erosion Control Perimeter Construction Entrance (E 205-TECP-01)
- ④ Temporary Ditch Inlet Protection, Gravel Ring (E 205-TECI-01)
- ⑤ Temporary Ditch Inlet Protection, Geotextile Box (E 205-TECI-02)
- ⑥ Temporary Erosion Control Inlet, Sandbag Curb Inlet Protection (E 205-TECI-05)
- ⑦ Temporary Seed Mixture = 2.0 X permanent seeding area
- ⑧ Temporary Mulch = temp seed area



RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: LAR	CHECKED: BSF	

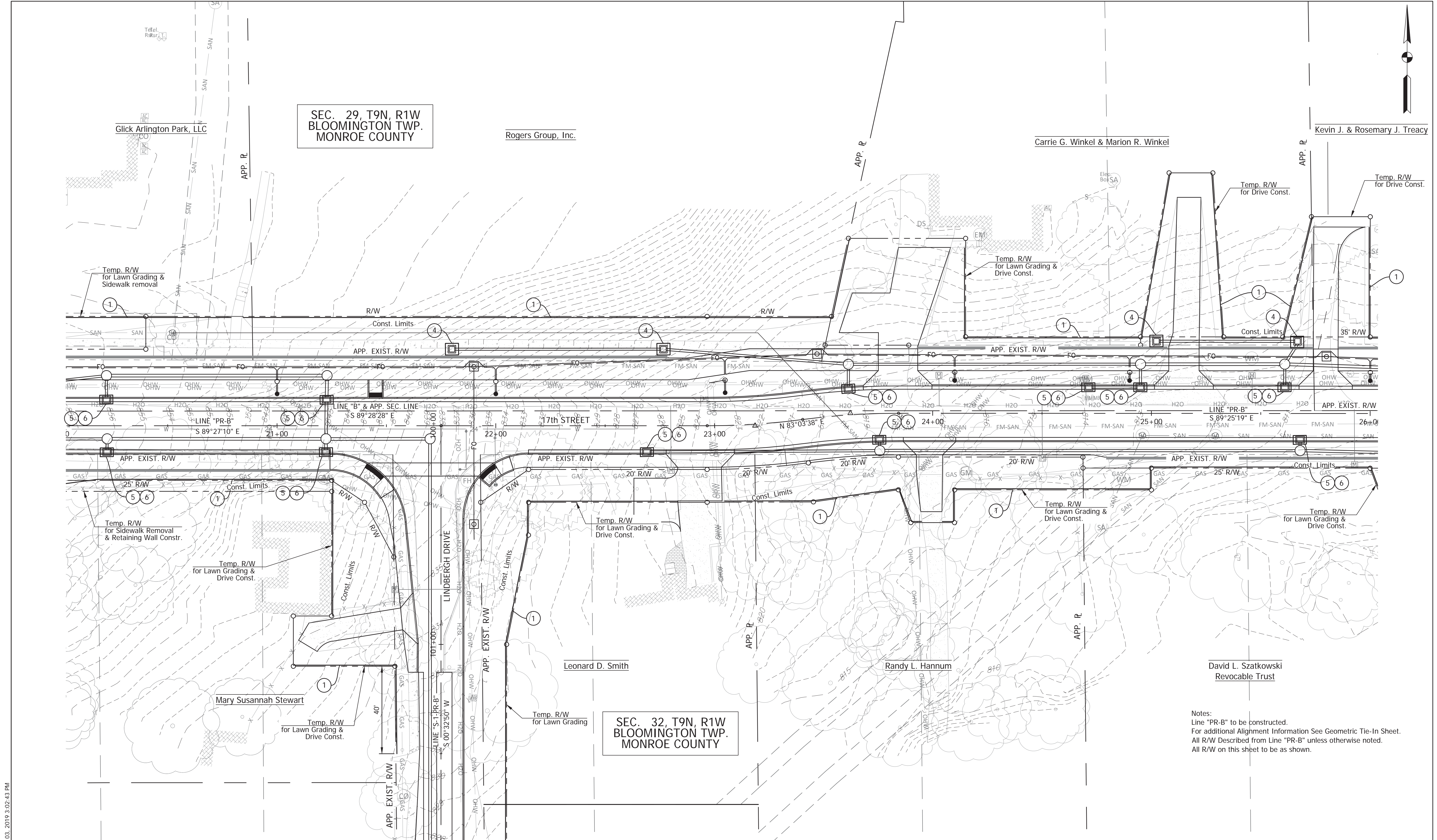
CITY OF BLOOMINGTON

EROSION CONTROL DETAILS
STA 14+00 TO STA 20+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	31 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, January 03, 2019 2:54:56 PM

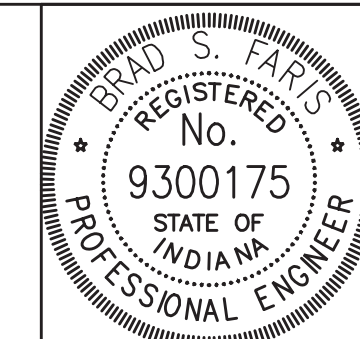
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EROSION CONTROL LEGEND

Note:
 Existing and proposed storm water inlets exist under differing conditions during construction. In certain inlet locations multiple types of erosion control measures are warranted. Multiple legend notes are shown on the SWPPP plans when more than one application is needed.

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- 2 Temporary Check Dam, Revetment Riprap (E 205-TECD-01)
- 3 Temporary Erosion Control Perimeter Construction Entrance (E 205-TECP-01)
- 4 Temporary Ditch Inlet Protection, Gravel Ring (E 205-TECI-01)
- 5 Temporary Ditch Inlet Protection, Geotextile Box (E 205-TECI-02)
- 6 Temporary Erosion Control Inlet, Sandbag Curb Inlet Protection (E 205-TECI-05)
- 7 Temporary Seed Mixture = 2.0 X permanent seeding area
- 8 Temporary Mulch = temp seed area



RECOMMENDED FOR APPROVAL	<i>Brad S. Farris</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

**EROSION CONTROL DETAILS
 STA 20+00 TO STA 26+00**

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	32 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

Notes:
 Line "PR-B" to be constructed.
 For additional Alignment Information See Geometric Tie-In Sheet.
 All R/W Described from Line "PR-B" unless otherwise noted.
 All R/W on this sheet to be as shown.



SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

Kevin J. & Rosemary J. Treacy

Victoria Starkey Temple

Mark L. & Yula Dawn Ayers

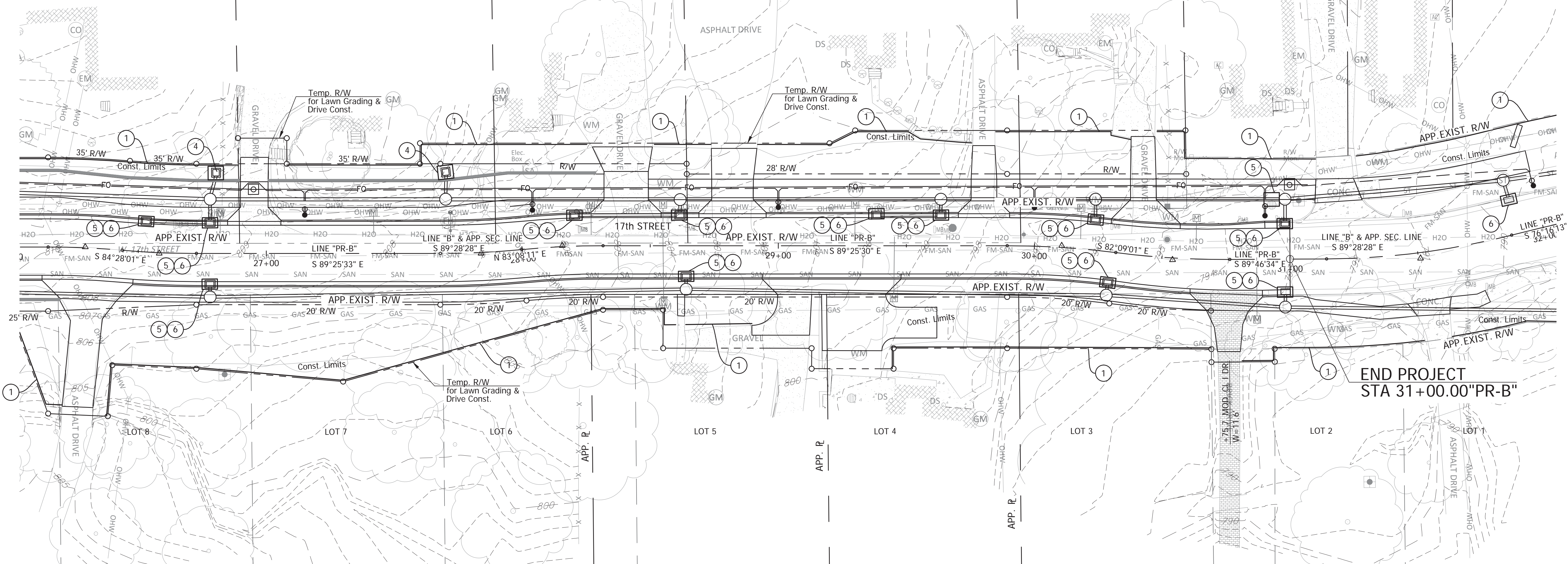
Jon B. Bowman

Jean E. Bauer

Sandra Groschwitz

Adams Crossing, LLC

Gerald R. Rhoads



Karen S. & Charles H. Smith

Austin L. & Mary C. Ayers

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

Timothy W. & Sharon M. Roualet

Notes:
Line "PR-B" to be constructed.
For additional Alignment Information See Geometric Tie-In Sheet.
All R/W Described from Line "PR-B" unless otherwise noted.
All R/W on this sheet to be as shown.

EROSION CONTROL LEGEND

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- 5 Temporary Ditch Inlet Protection, Geotextile Box (E 205-TECI-02)
- 6 Temporary Erosion Control Inlet, Sandbag Curb Inlet Protection (E 205-TECI-05)
- 7 Temporary Seed Mixture = 2.0 X permanent seeding area
- 8 Temporary Mulch = temp seed area



RECOMMENDED FOR APPROVAL	<i>Brad S. Favis</i>	12/28/2018
DESIGNED:	BSF	DATE
CHECKED:	BSF	
DRAWN:	BSF	
CHECKED:	LAR	

CITY OF BLOOMINGTON

EROSION CONTROL DETAILS
STA 26+00 TO STA 32+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	33 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

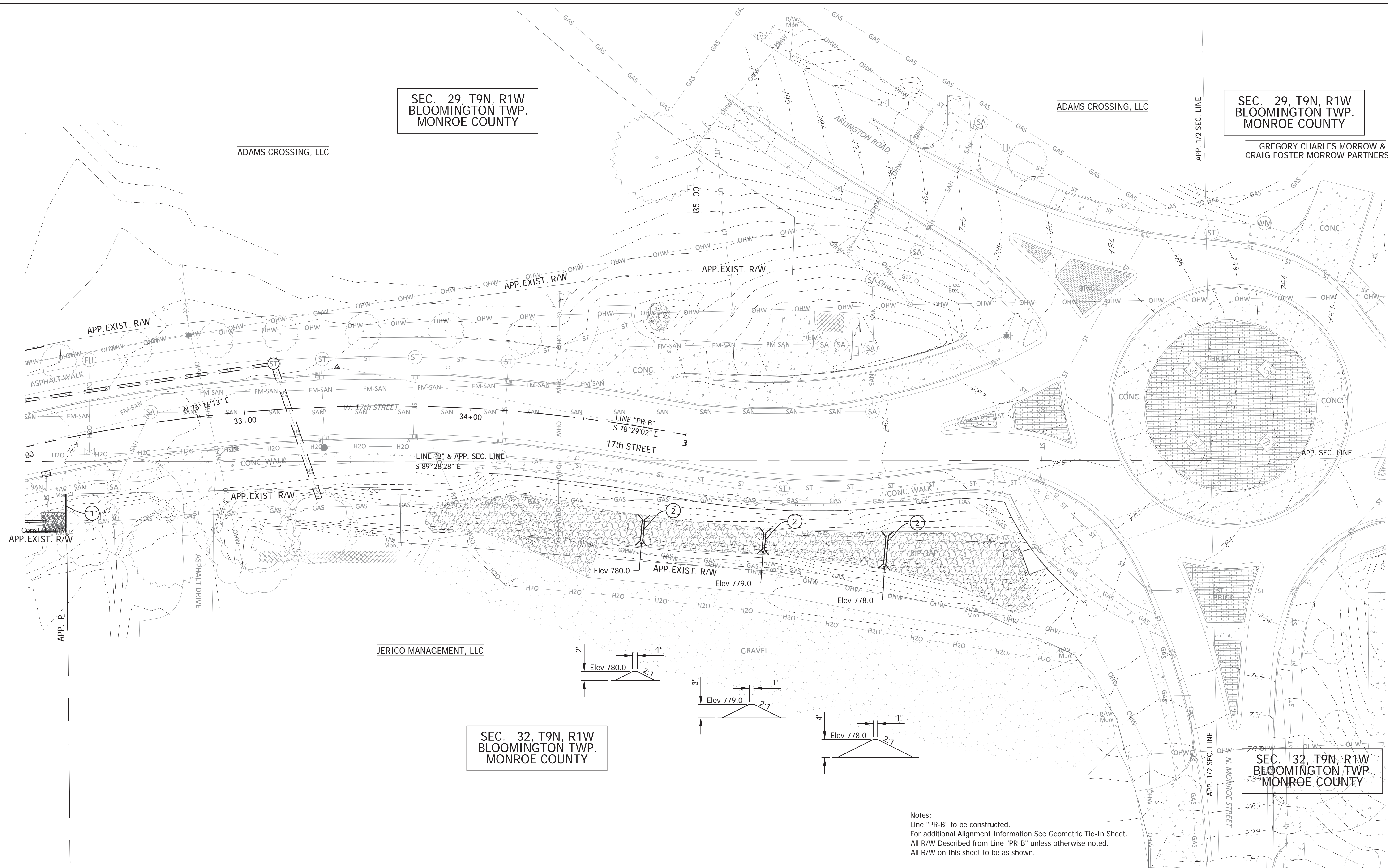
SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

GREGORY CHARLES MORROW &
CRAIG FOSTER MORROW PARTNERSHIP

ADAMS CROSSING, LLC

ADAMS CROSSING, LLC

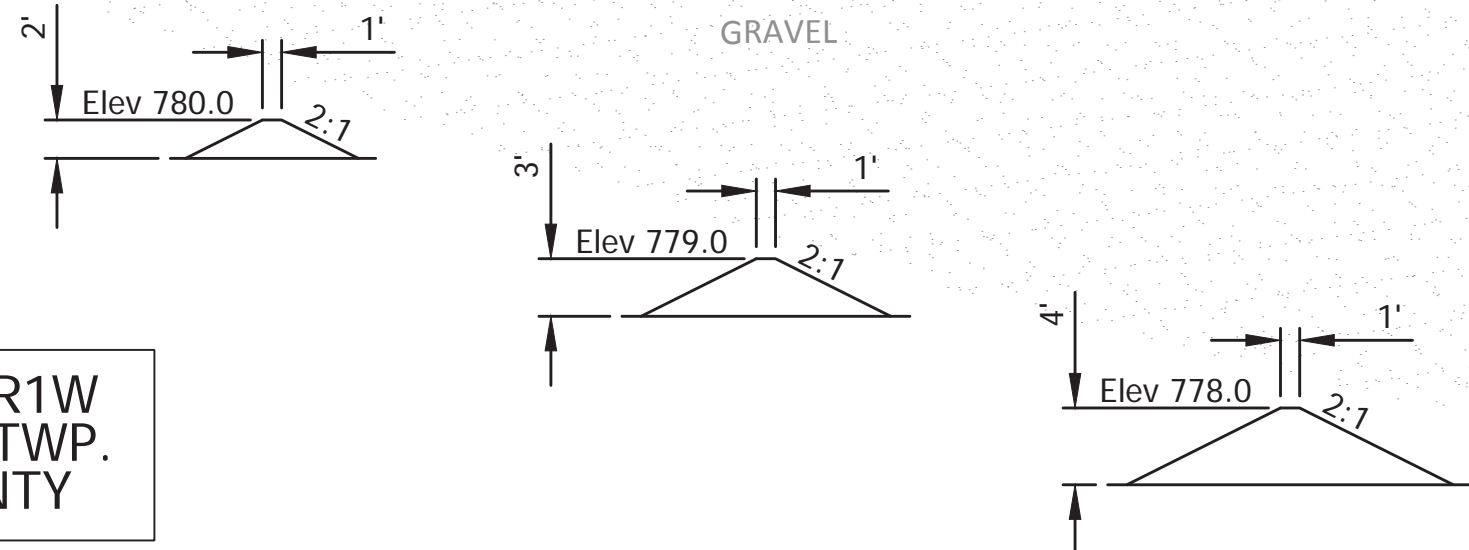
APP. 1/2 SEC. LINE



JERICO MANAGEMENT, LLC

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY



Notes:
Line "PR-B" to be constructed.
For additional Alignment Information See Geometric Tie-In Sheet.
All R/W Described from Line "PR-B" unless otherwise noted.
All R/W on this sheet to be as shown.

EROSION CONTROL LEGEND

Note:
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- 3 Temporary Erosion Control Perimeter Construction Entrance (E 205-TECP-01)
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- 6 Temporary Erosion Control Inlet, Sandbag Curb Inlet Protection (E 205-TECI-05)
- 7 Temporary Seed Mixture = 2.0 X permanent seeding area
- 8 Temporary Mulch = temp seed area



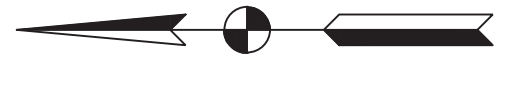
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DESIGNED:	BSF	DRAWN:
CHECKED:	BSF	CHECKED:

CITY OF BLOOMINGTON

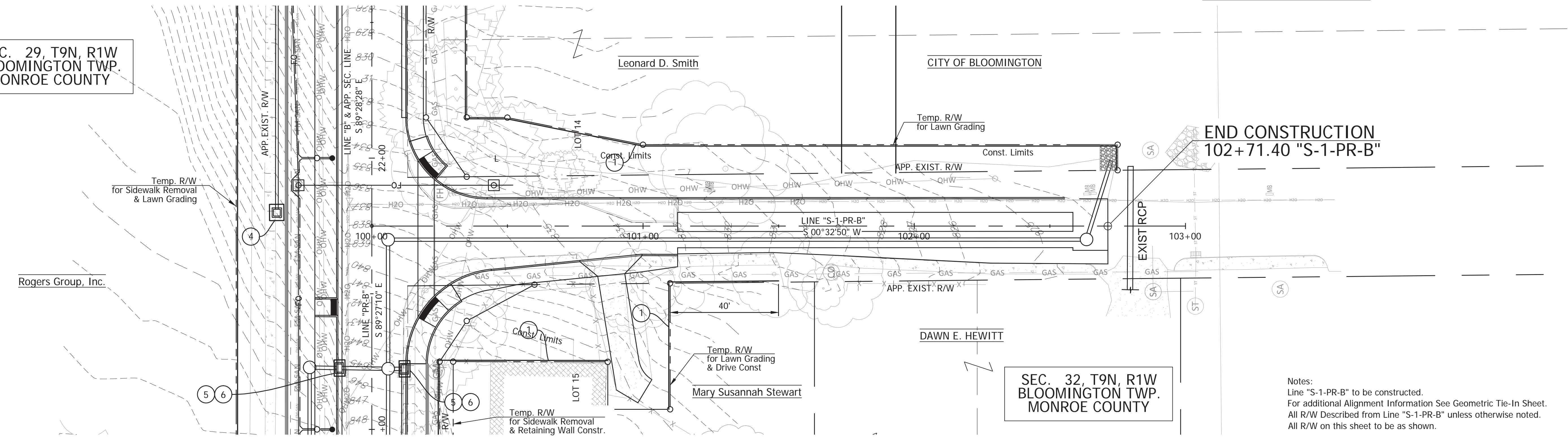
EROSION CONTROL DETAILS
STA 32+00 TO STA 35+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	34 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY



SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY



END CONSTRUCTION
102+71.40 "S-1-PR-B"

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

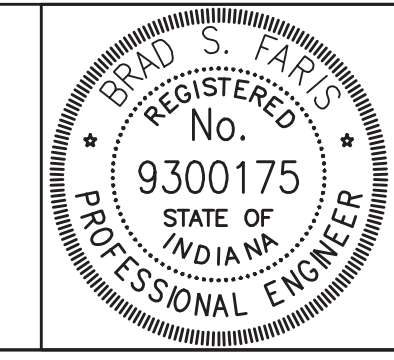
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Line "S-1-PR-B" to be constructed.
For additional Alignment Information See Geometric Tie-In Sheet.
All R/W Described from Line "S-1-PR-B" unless otherwise noted.
All R/W on this sheet to be as shown.

PLOTTED: Thursday, December 27, 2018 1:54:40 PM

EROSION CONTROL LEGEND

Note:
Existing and proposed storm water inlets exist under differing conditions during construction. In certain inlet locations multiple types of erosion control measures are warranted. Multiple legend notes are shown on the SWPPP plans when more than one application is needed.

- ① Temporary Silt Fence (E 205-TECP-02)
- ② Temporary Check Dam, Revetment Riprap (E 205-TECD-01)
- ③ Temporary Erosion Control Perimeter Construction Entrance (E 205-TECP-01)
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- ⑤ Temporary Ditch Inlet Protection, Geotextile Box (E 205-TECI-02)
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- ⑦ Temporary Seed Mixture = 2.0 X permanent seeding area
- ⑧ Temporary Mulch = temp seed area



RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/2018
DESIGNED:	BSF	DATE
CHECKED:	BSF	
DRAWN:	BSF	
CHECKED:	LAR	

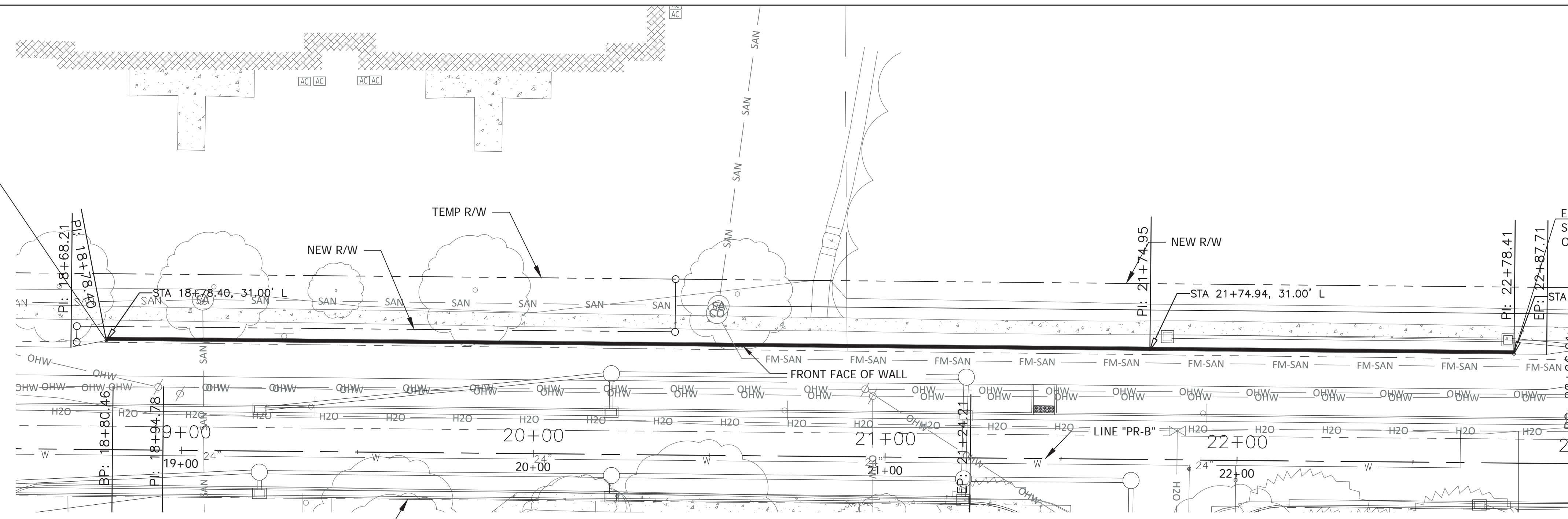
CITY OF BLOOMINGTON

**EROSION CONTROL DETAIL
LINDBERGH DRIVE**

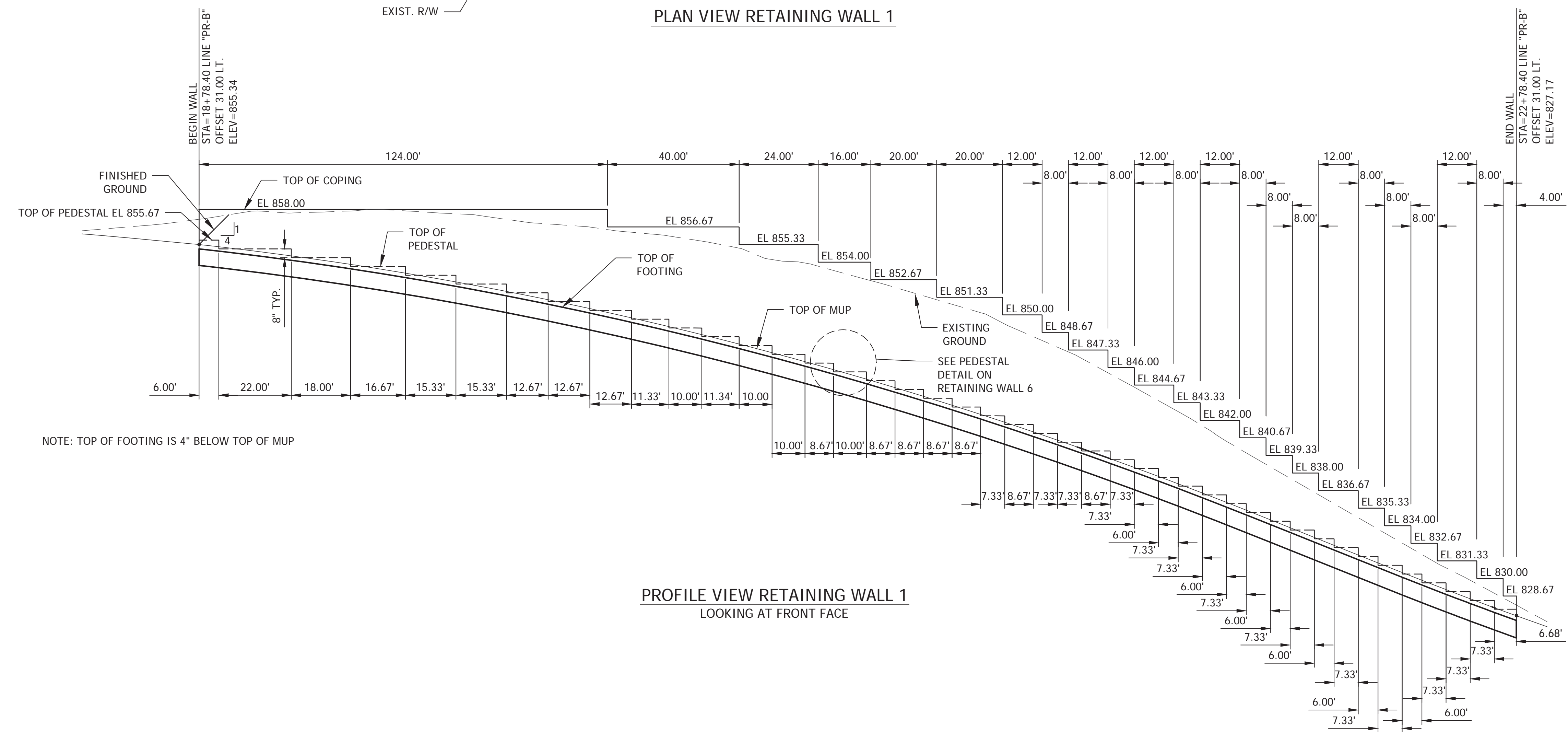
SCALE	BRIDGE FILE
	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	35 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

BEGIN WALL
STA 18+78.40 LINE "PR-B"
OFFSET 31.00 LT.

END WALL
STA 22+78.40 LINE "PR-B"
OFFSET 31.00 LT.



PLAN VIEW RETAINING WALL 1

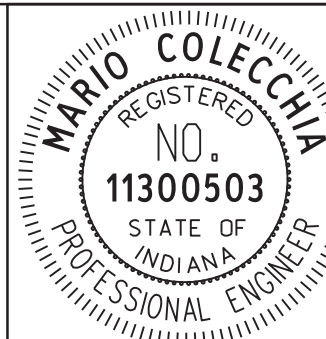


PROFILE VIEW RETAINING WALL 1
LOOKING AT FRONT FACE

NOTE: TOP OF FOOTING IS 4" BELOW TOP OF MUP

PLOTTED: Friday, December 21, 2018 3:40:49 PM

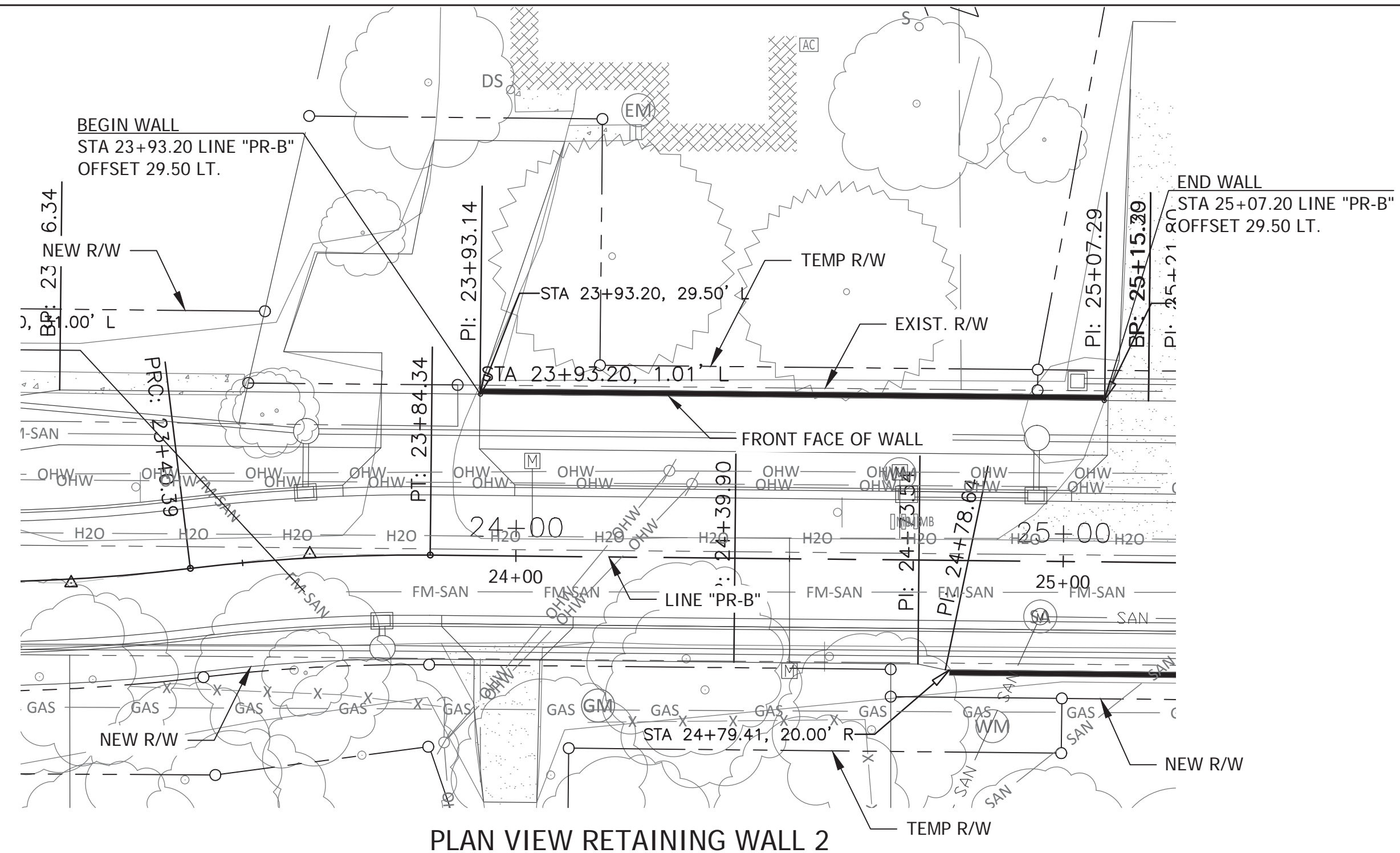
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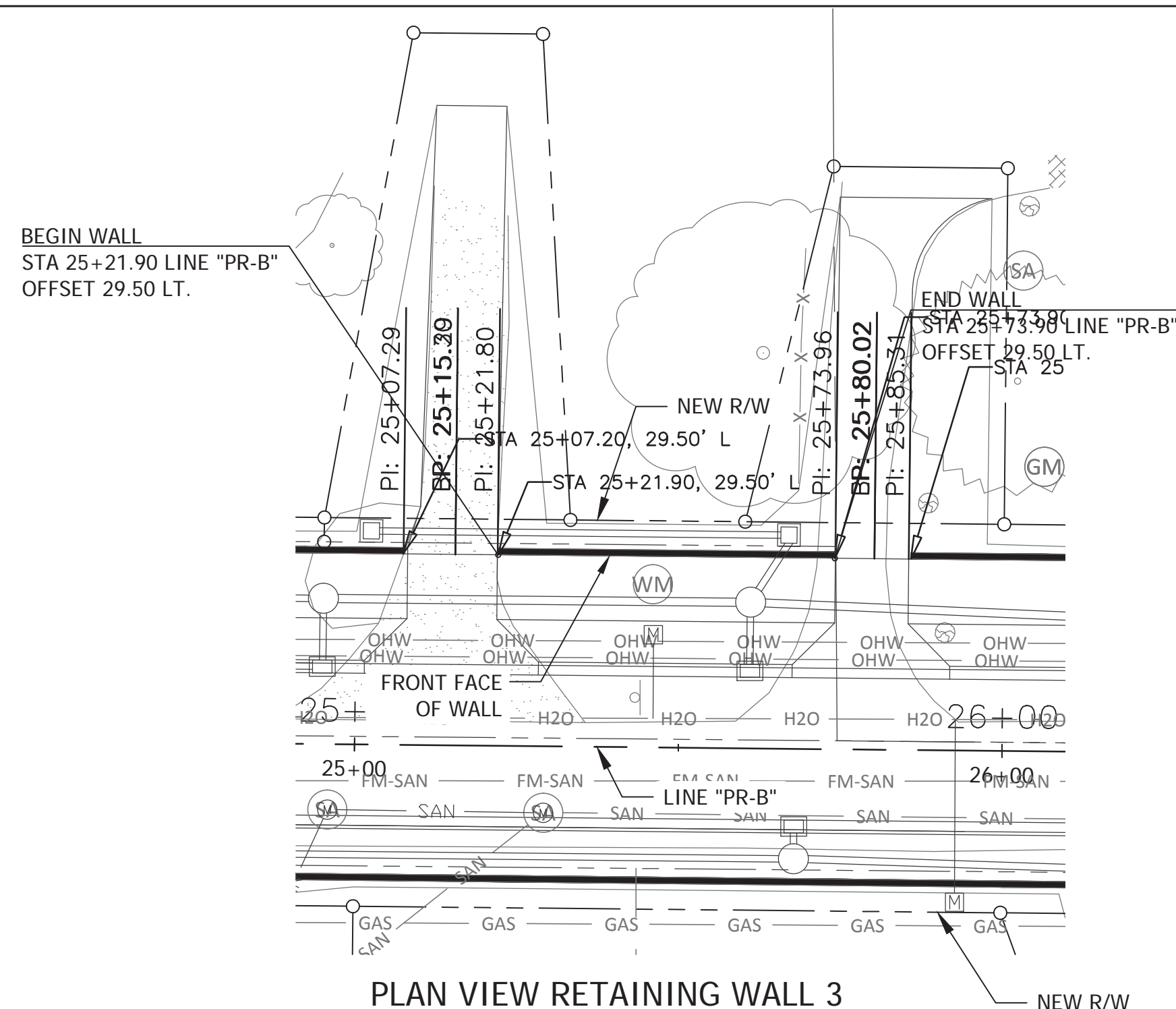
RECOMMENDED FOR APPROVAL *MCA* DESIGN ENGINEER 12/21/18 DATE
 DESIGNED: MC DRAWN: CRK
 CHECKED: NS CHECKED: MC

CITY OF BLOOMINGTON
 RETAINING WALL 1
 STA 18+78 TO STA 22+78

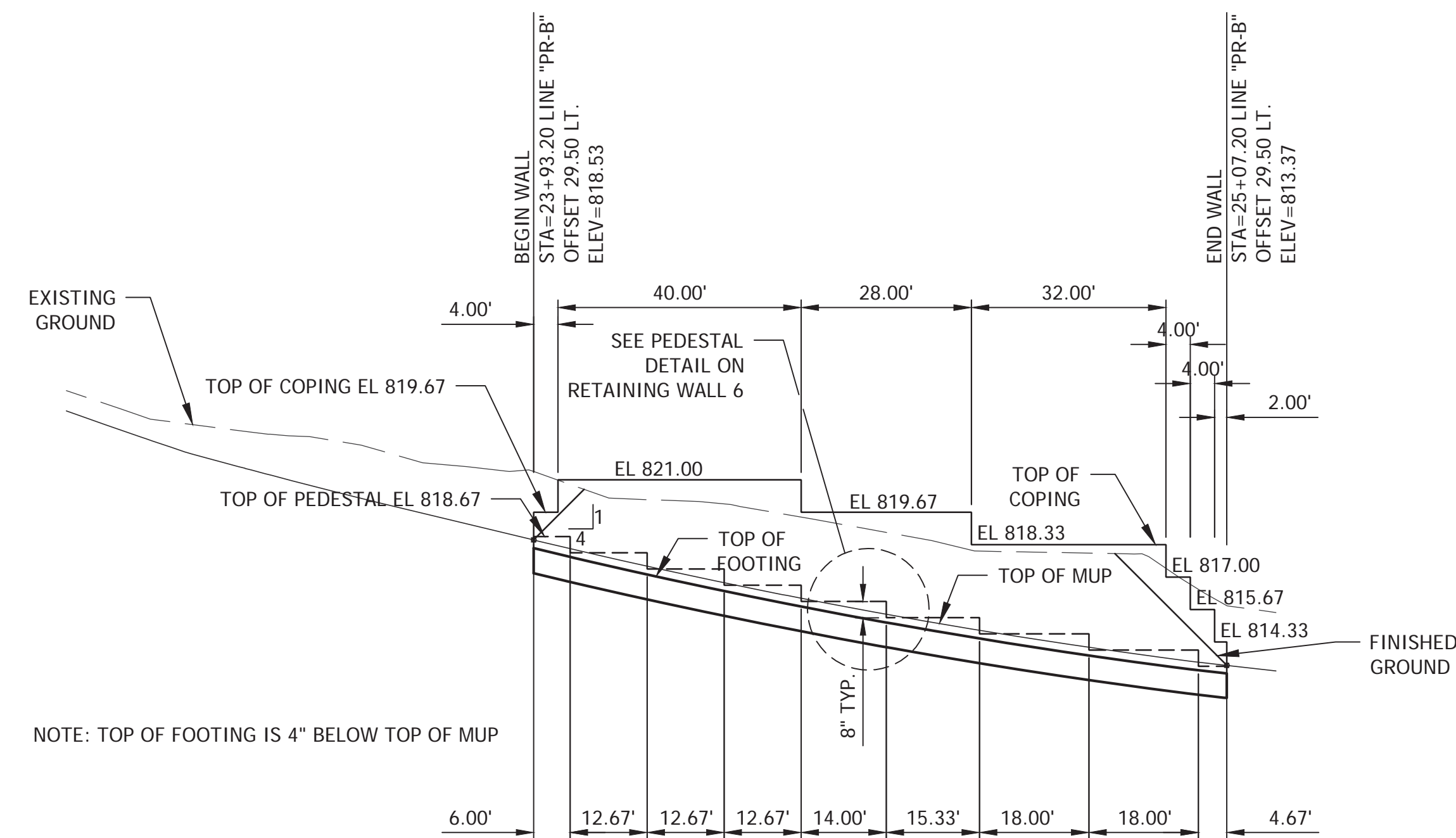
SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=5'	N/A
SURVEY BOOK	SHEETS
N/A	36 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



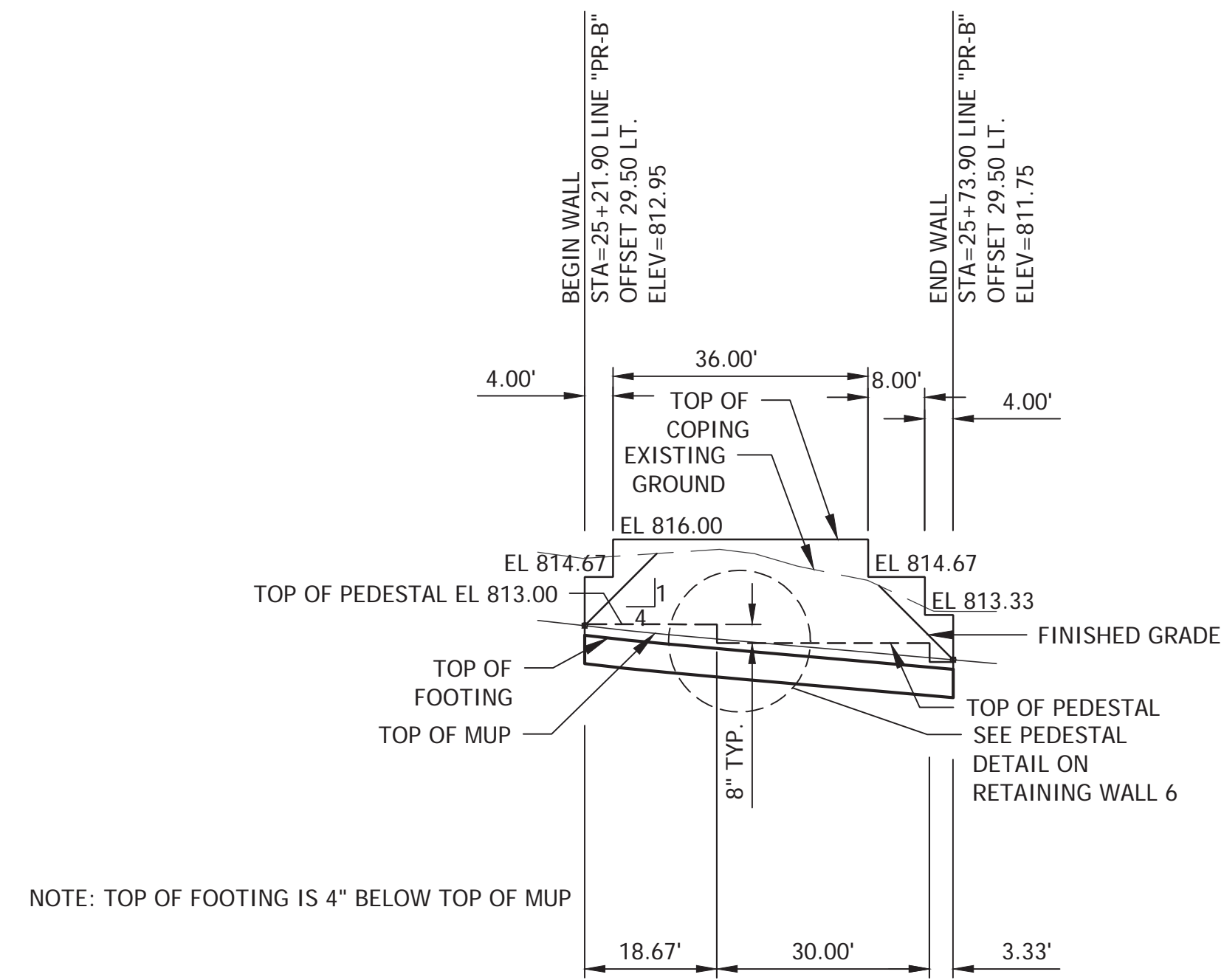
PLAN VIEW RETAINING WALL 2



PLAN VIEW RETAINING WALL 3



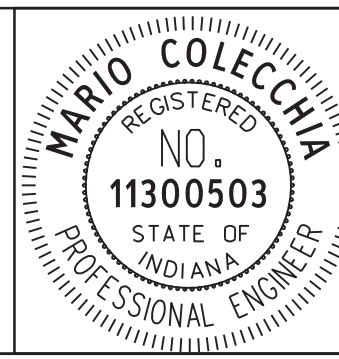
PROFILE VIEW RETAINING WALL 2
LOOKING AT FRONT FACE



PROFILE VIEW RETAINING WALL 3
LOOKING AT FRONT FACE

PLOTTED: Friday, December 21, 2018 3:43:15 PM

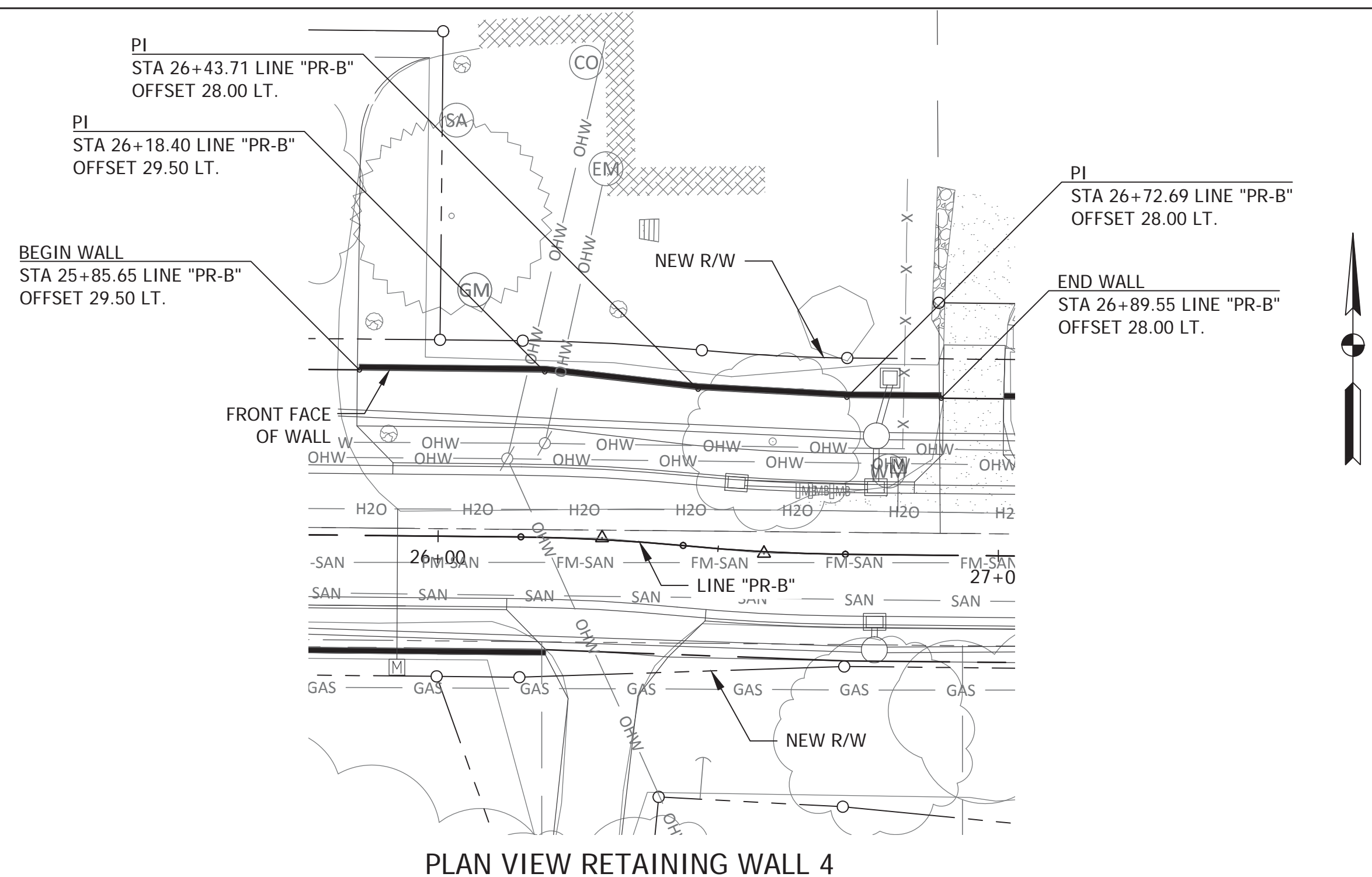
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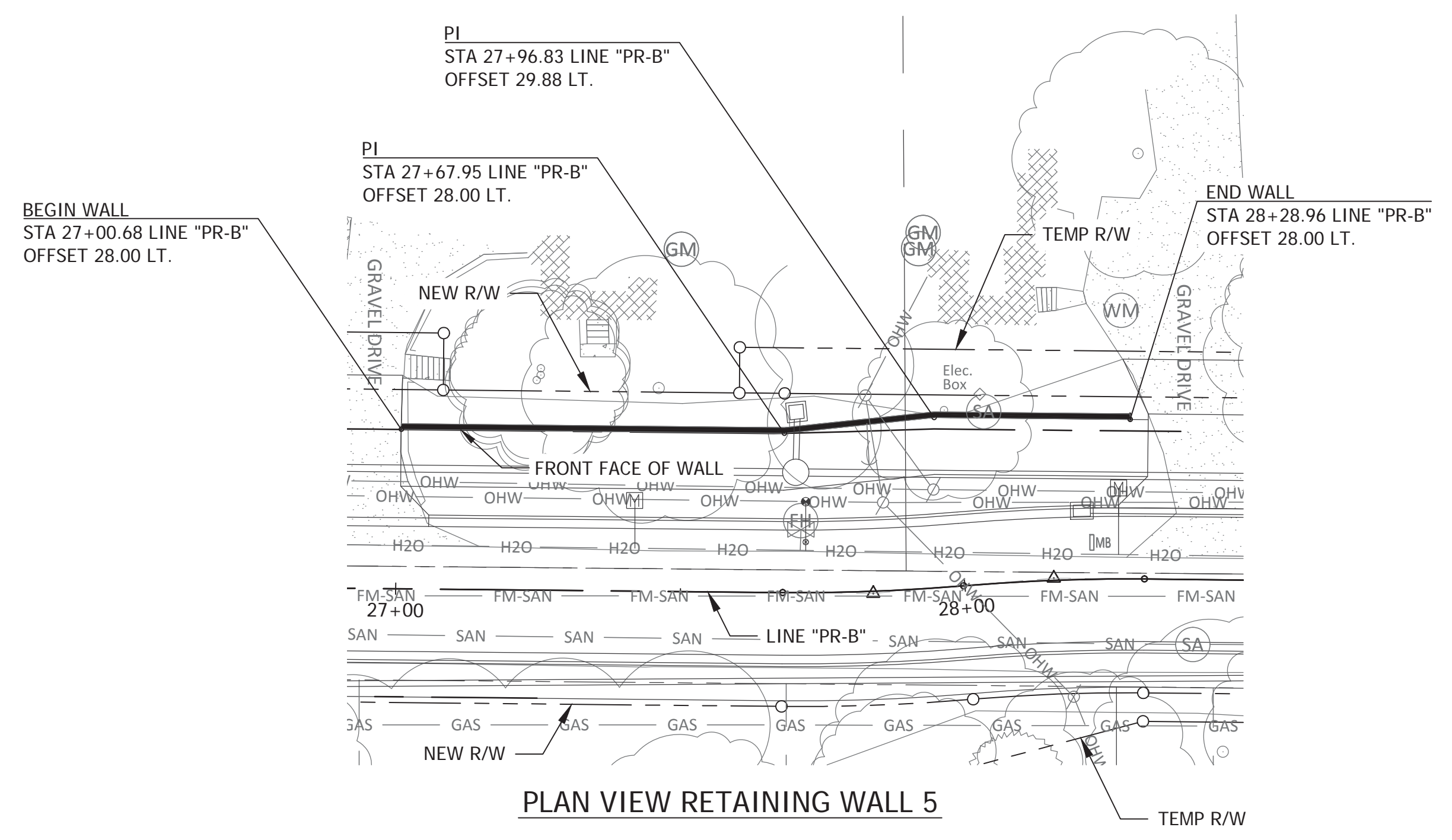
RECOMMENDED FOR APPROVAL	<i>M.C.</i>	DESIGN ENGINEER	12/21/18
DESIGNED: MC	DRAWN: CRK	CHECKED: NS	CHECKED: MC

CITY OF BLOOMINGTON	
RETAINING WALL 2 & 3	
STA 23+93 TO STA 25+74	

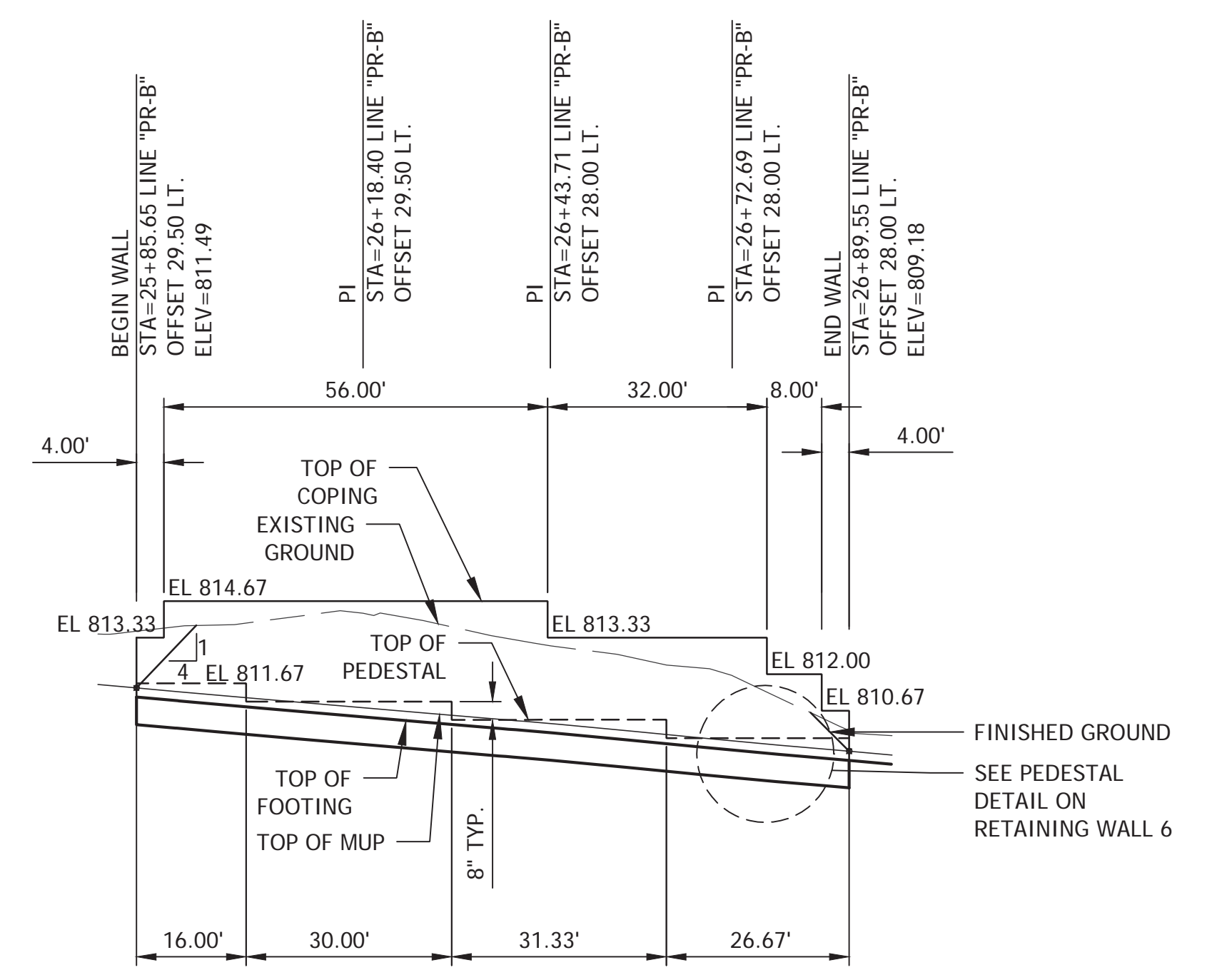
SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=5'	N/A
SURVEY BOOK	SHEETS
N/A	37 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLAN VIEW RETAINING WALL 4

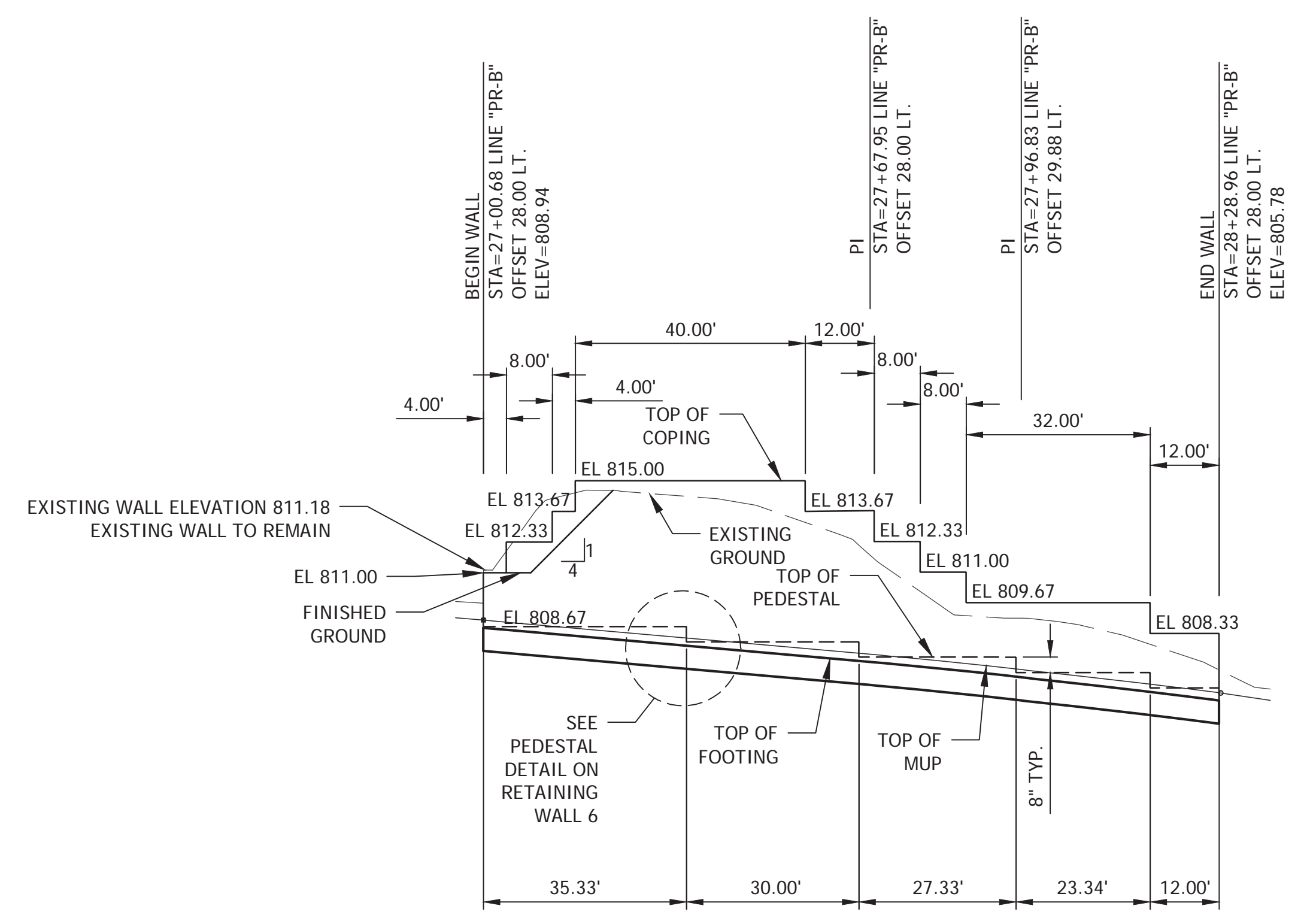


PLAN VIEW RETAINING WALL 5



NOTE: TOP OF FOOTING IS 4" BELOW TOP OF MUP

PROFILE VIEW RETAINING WALL 4
LOOKING AT FRONT FACE

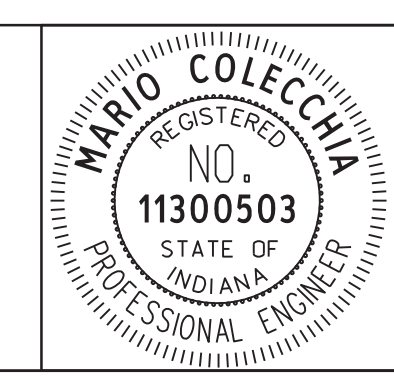


NOTE: TOP OF FOOTING IS 4" BELOW TOP OF MUP

PROFILE VIEW RETAINING WALL 5
LOOKING AT FRONT FACE

PLOTTED: Friday, December 21, 2018 3:02:47 PM

FILE: SHT_RET_WALL_04&05.DWG

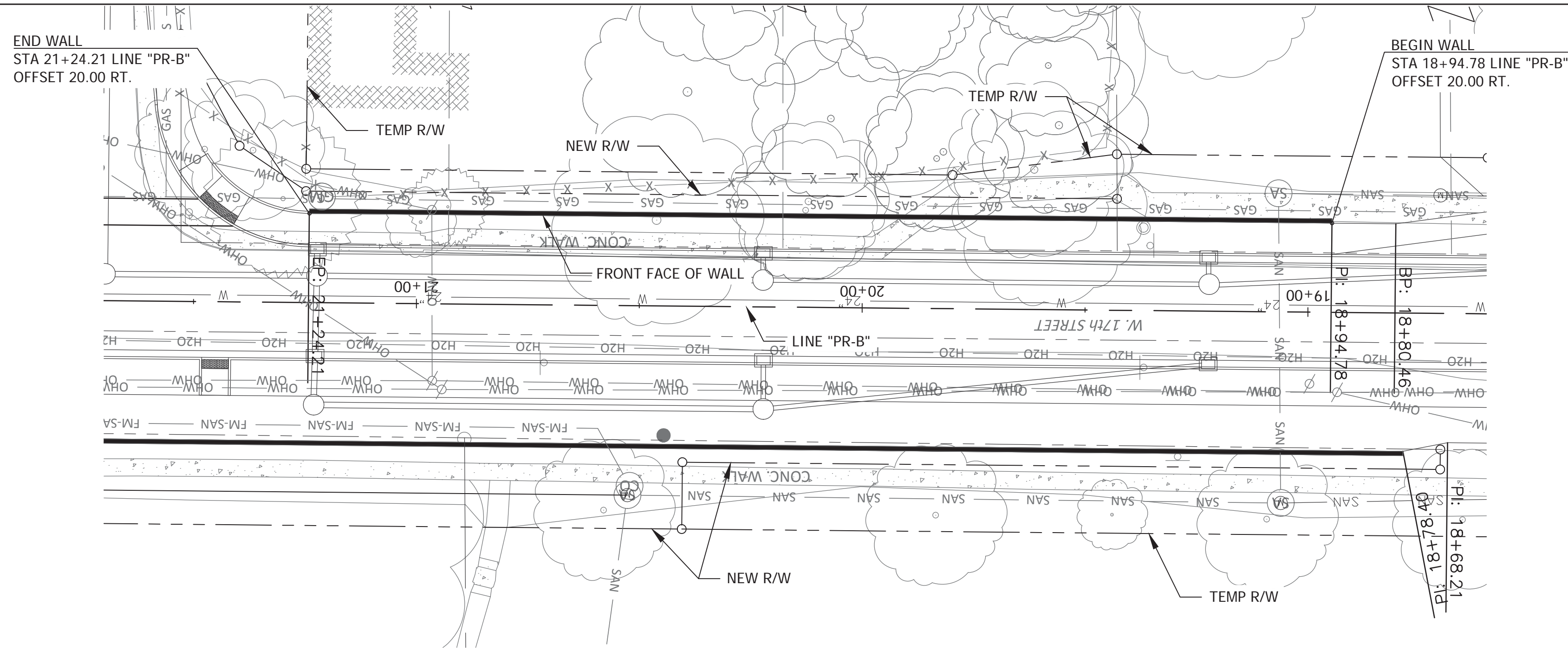


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	12/21/18
DESIGNED:	MC	DRAWN:	CRK
CHECKED:	NS	CHECKED:	MC

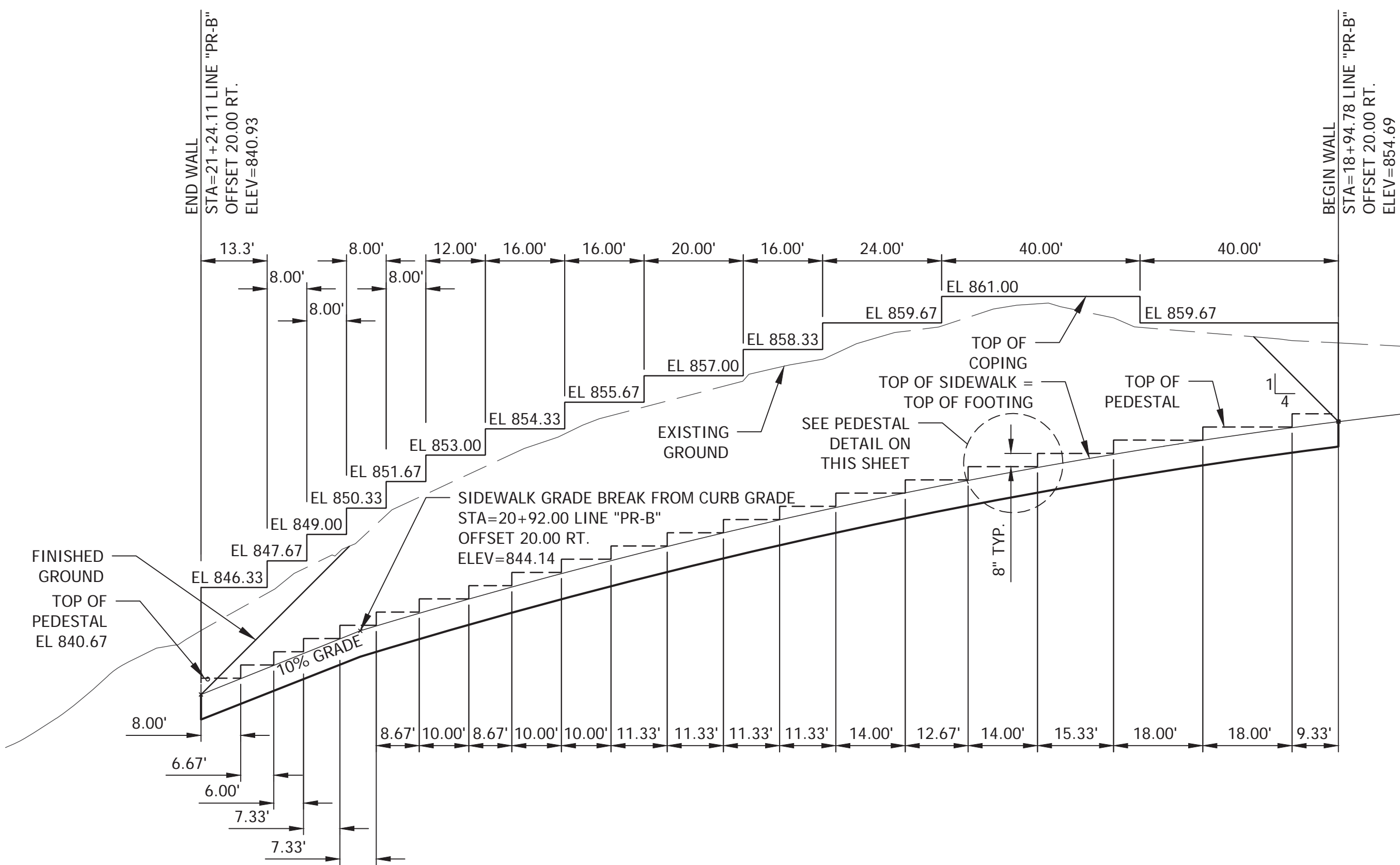
CITY OF BLOOMINGTON

RETAINING WALL 4 & 5
STA 25+85 TO STA 28+29

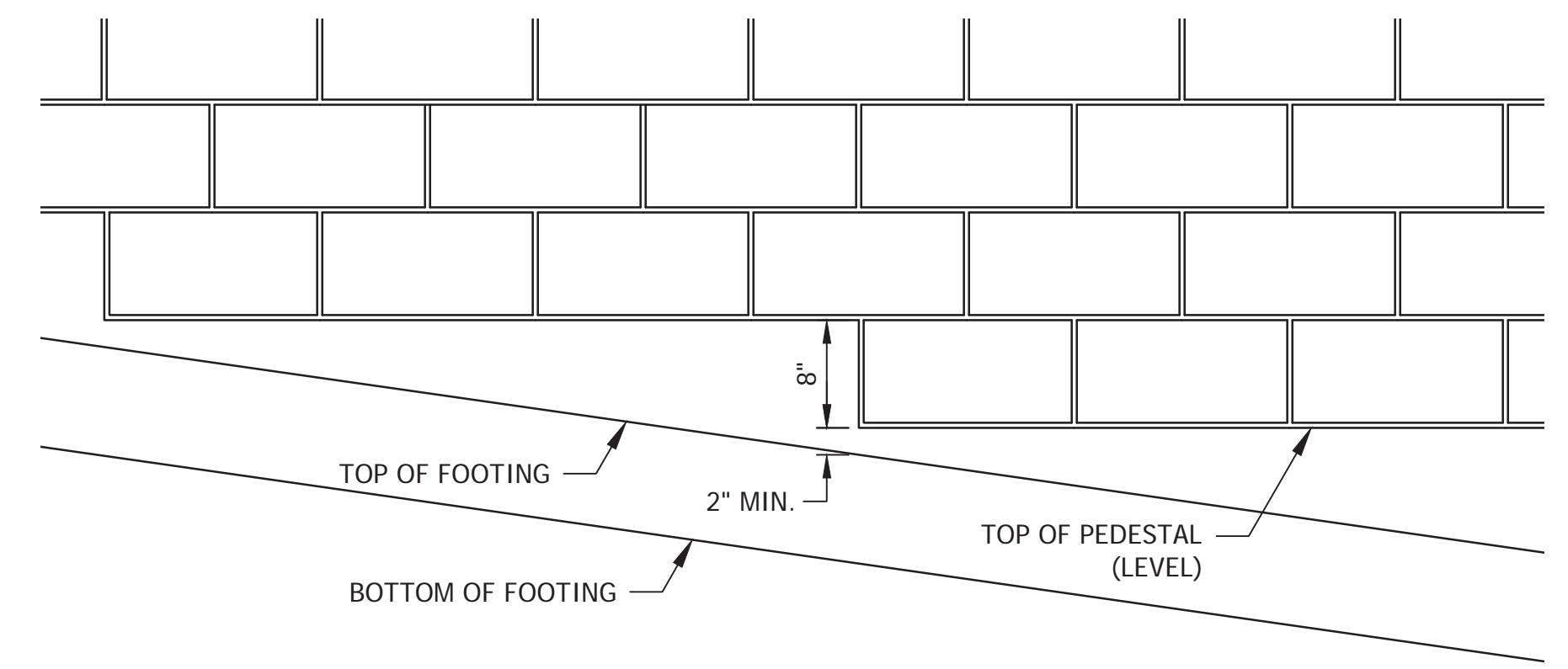
SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=5'	N/A
SURVEY BOOK	SHEETS
N/A	38 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLAN VIEW RETAINING WALL 6



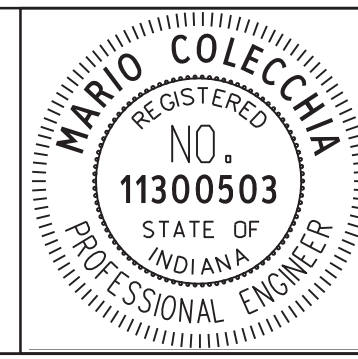
PROFILE VIEW RETAINING WALL 6
LOOKING AT FRONT FACE



PEDESTAL DETAIL
SCALE: N.T.S.

PLOTTED: Friday, December 21, 2018 3:44:39 PM

FILE: SHT_RET_WALL_06.DWG

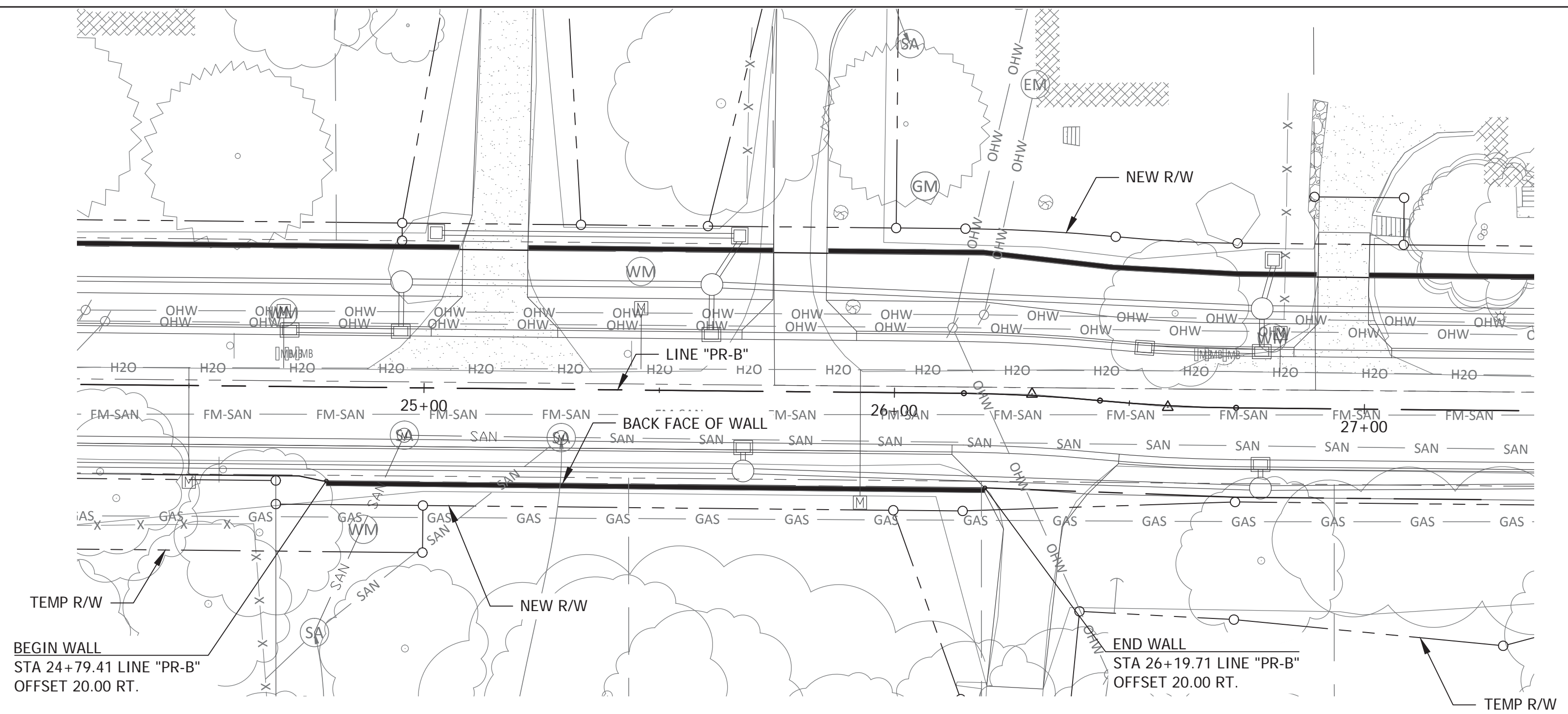


RECOMMENDED FOR APPROVAL	<i>M.C.</i>	DESIGN ENGINEER	12/21/18
DESIGNED: MC	DRAWN: CRK	CHECKED: NS	CHECKED: MC

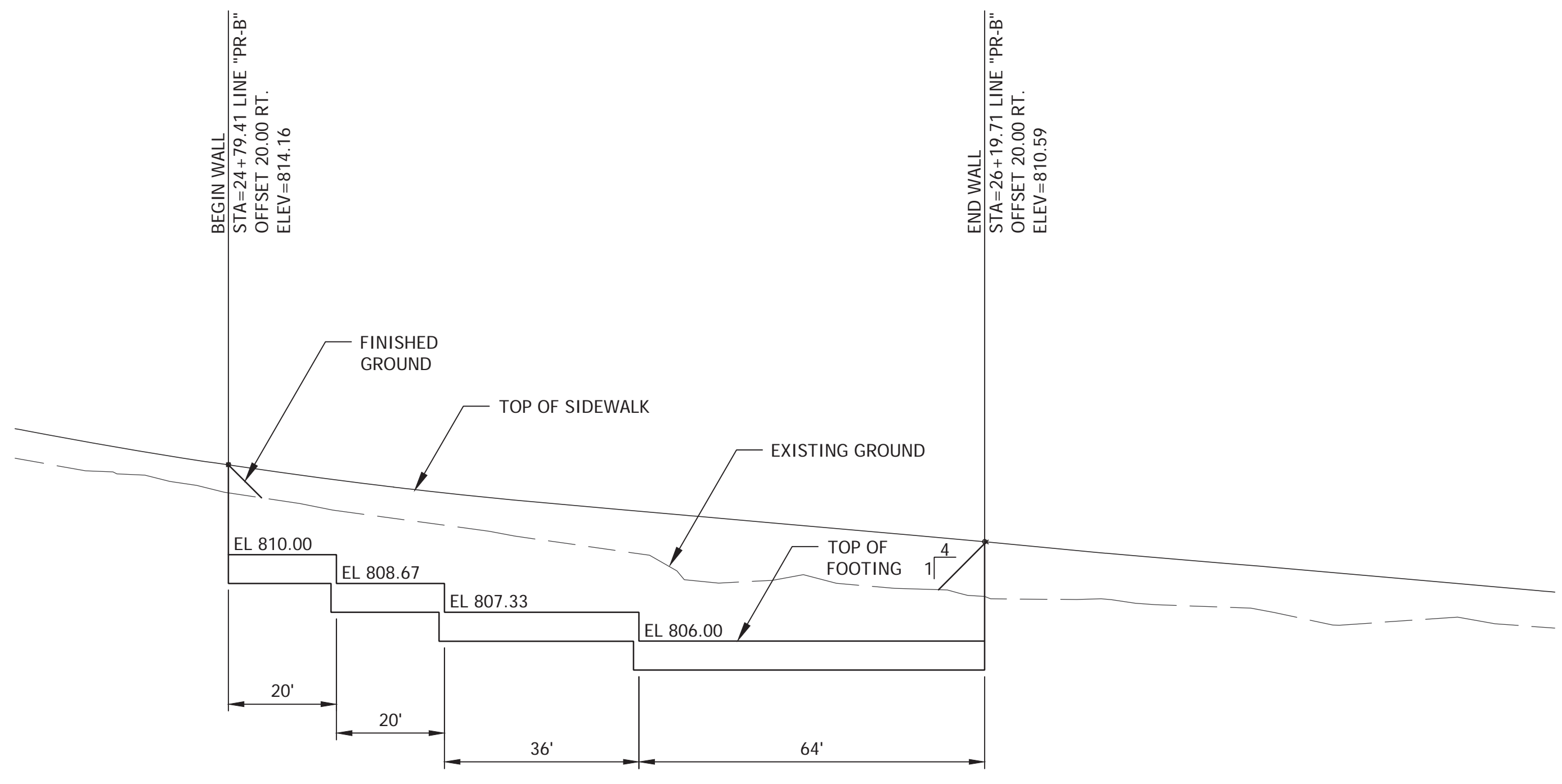
CITY OF BLOOMINGTON

RETAINING WALL 6
STA 18+95 TO STA 21+24

SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=5'	N/A
SURVEY BOOK	SHEETS
N/A	39 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLAN VIEW RETAINING WALL 7



PROFILE VIEW RETAINING WALL 7
LOOKING AT FRONT FACE

PLOTTED: Friday, December 21, 2018 3:46:02 PM

FILE: SHT_RET_WALL_07.DWG



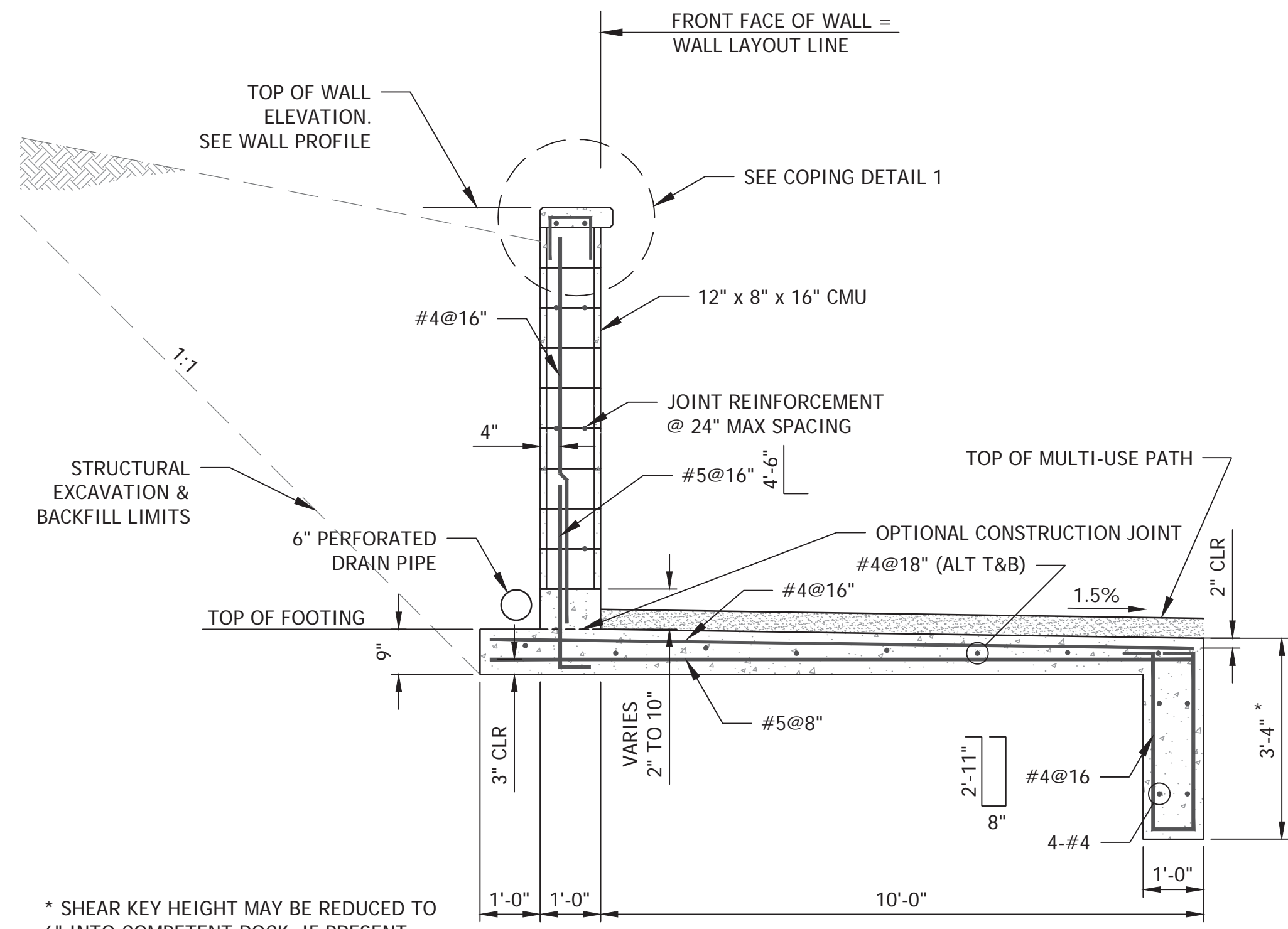
RECOMMENDED FOR APPROVAL *MCA* 12/21/18
DESIGN ENGINEER DATE

DESIGNED: MC DRAWN: CRK
CHECKED: NS CHECKED: MC

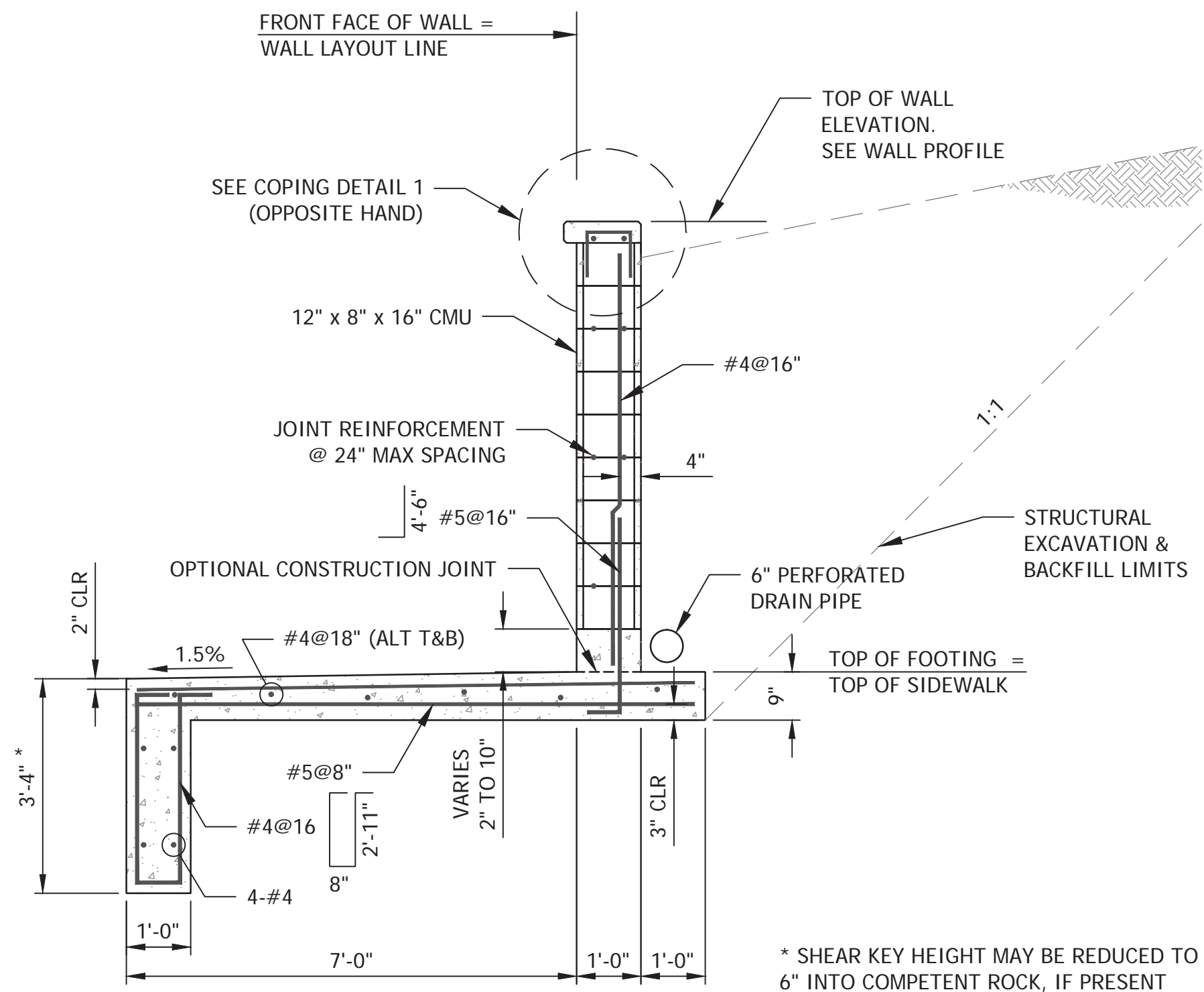
CITY OF BLOOMINGTON

RETAINING WALL 7
STA 24+79 TO STA 26+20

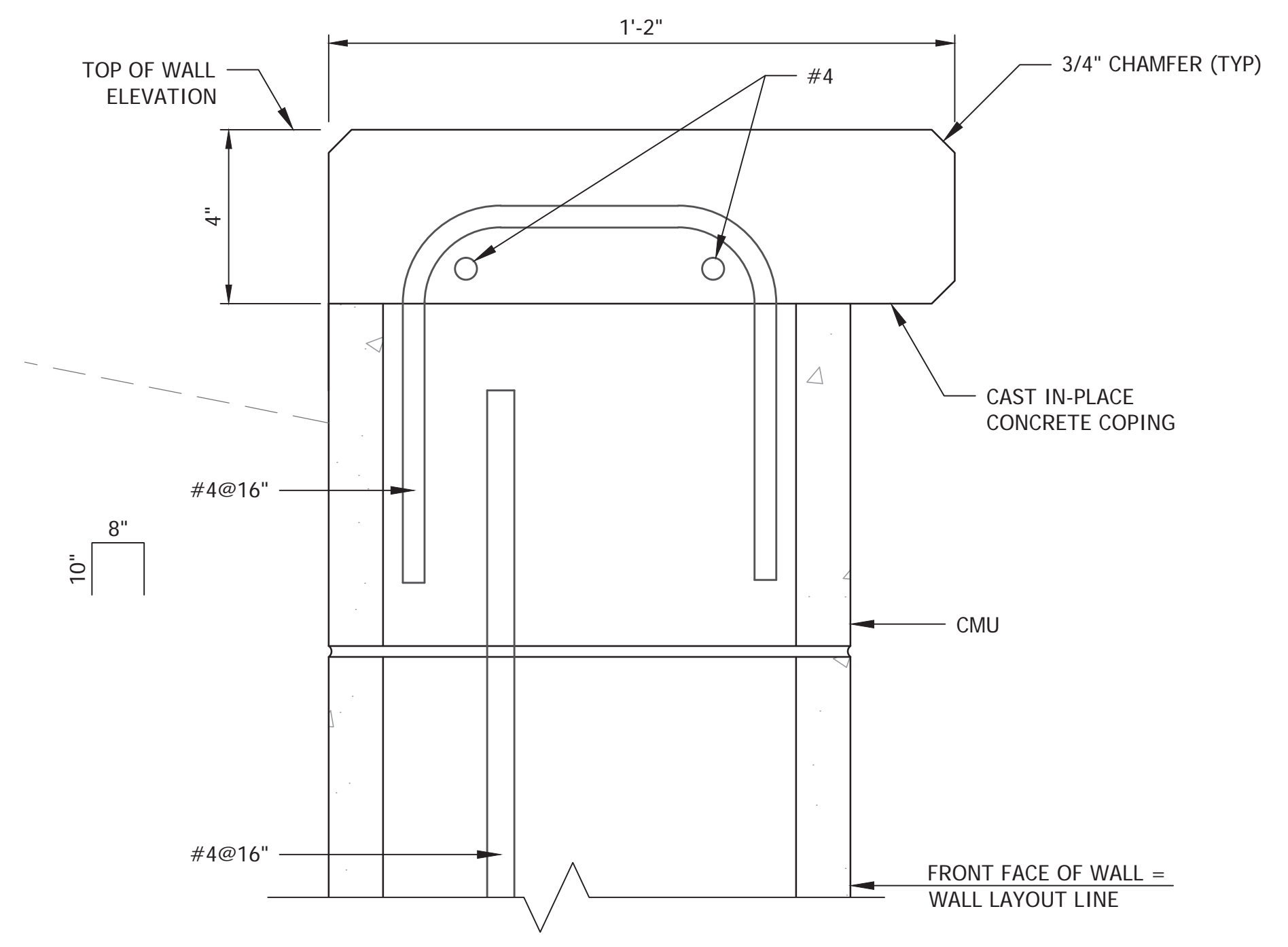
SCALE	BRIDGE FILE
1"=20'	N/A
VERTICAL SCALE	DESIGNATION
1"=5'	N/A
SURVEY BOOK	SHEETS
N/A	40 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



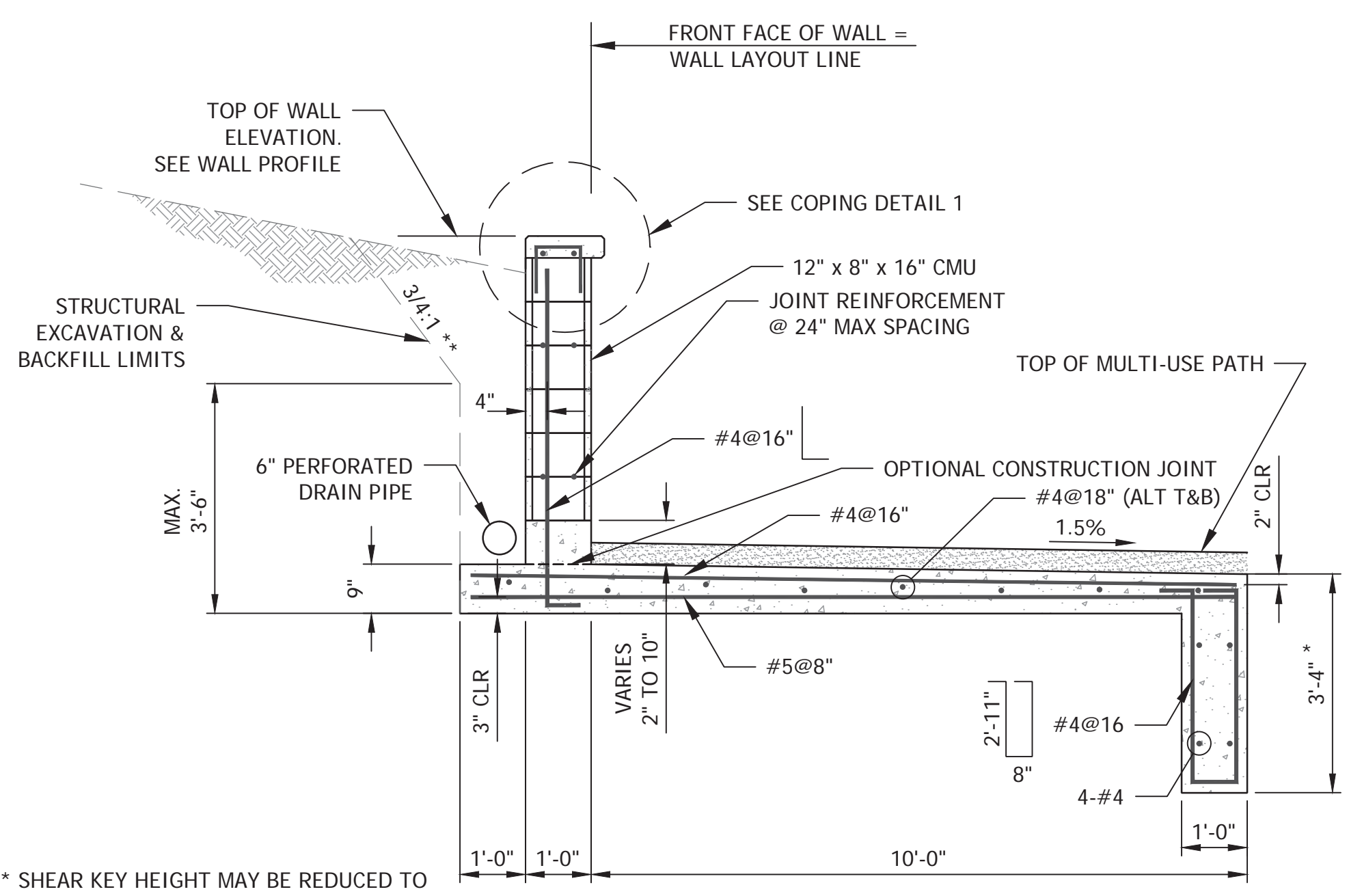
TYPICAL SECTION RETAINING WALL 1



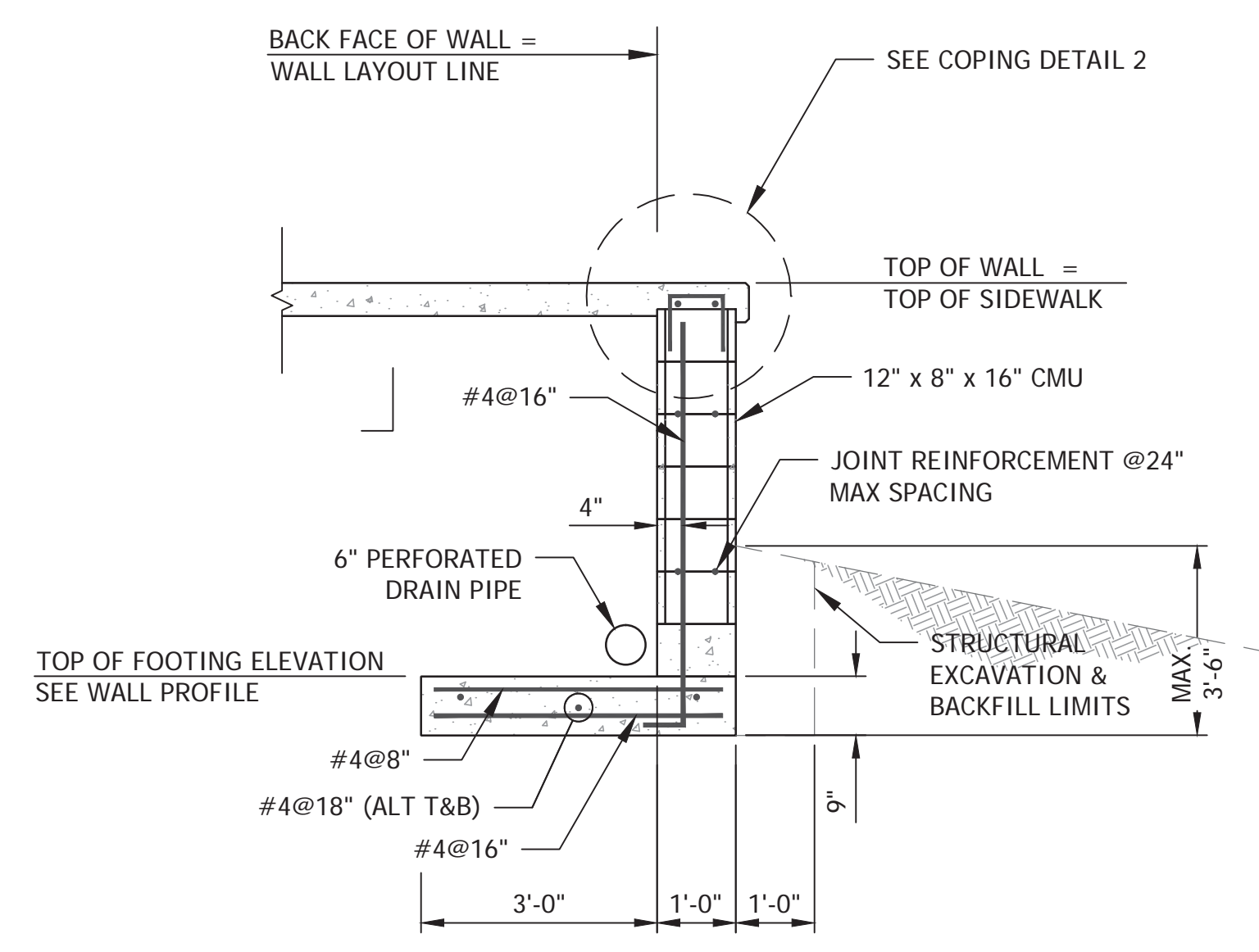
TYPICAL SECTION RETAINING WALL 6



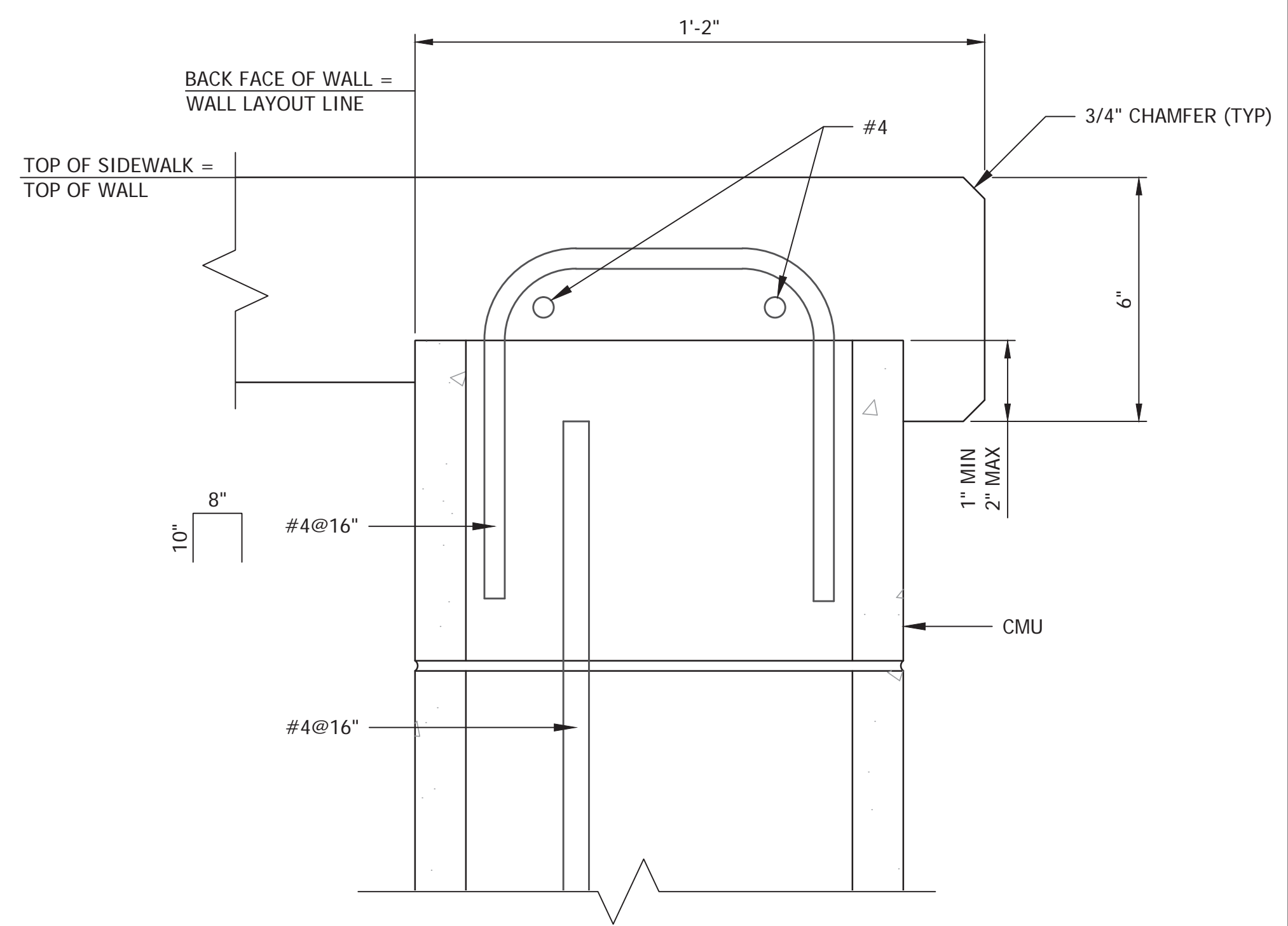
COPING DETAIL 1



TYPICAL SECTION RETAINING WALL 2, 3, 4 & 5



TYPICAL SECTION RETAINING WALL 7



COPING DETAIL 2

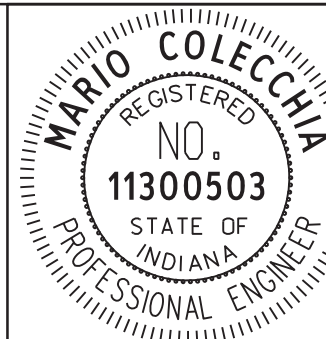
* SHEAR KEY HEIGHT MAY BE REDUCED TO 6" INTO COMPETENT ROCK, IF PRESENT

* SHEAR KEY HEIGHT MAY BE REDUCED TO 6" INTO COMPETENT ROCK, IF PRESENT

* SHEAR KEY HEIGHT MAY BE REDUCED TO 6" INTO COMPETENT ROCK, IF PRESENT
 ** TO 8' MAX EXCAVATION DEPTH, 1:1 FOR EXCAVATION DEPTHS 8'-12'

PLOTTED: Friday, December 21, 2018 3:47:17 PM

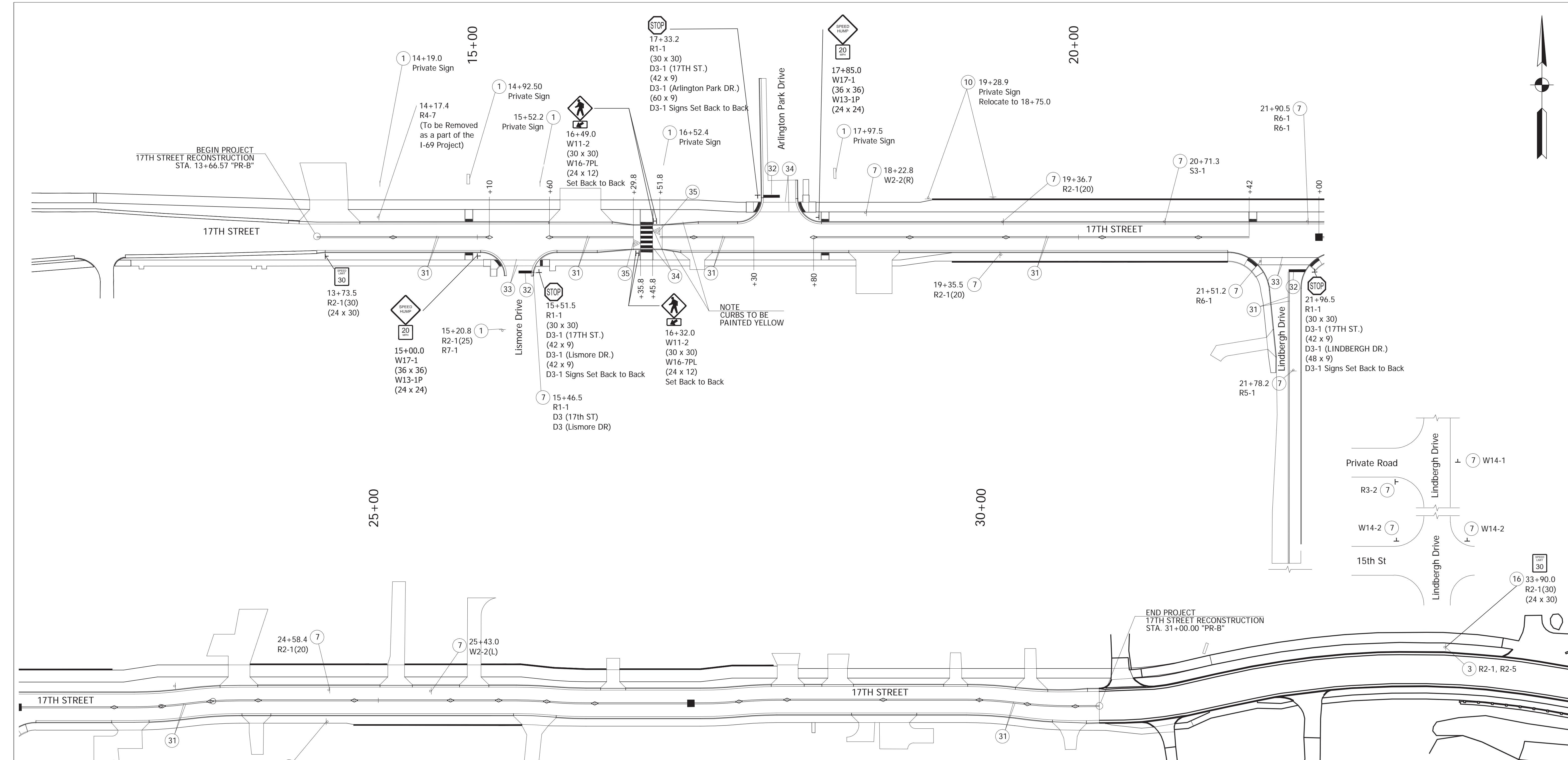
FILE: SHT_RET_WALL_DET.DWG



RECOMMENDED FOR APPROVAL: *MGC* DESIGN ENGINEER 12/21/18 DATE
 DESIGNED: MC DRAWN: CRK
 CHECKED: NS CHECKED: MC

CITY OF BLOOMINGTON
 RETAINING WALL DETAILS

SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	41 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



LEGEND

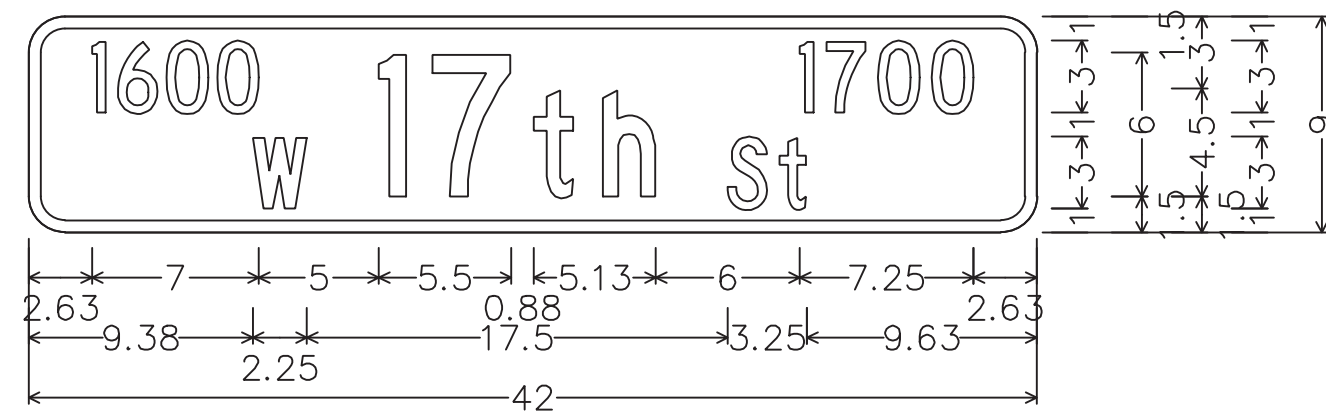
① No Change Required to Existing Sign and Supports	③③ Transverse Markings, Thermoplastic, Crosswalk Line, 6 in.
③ Remove Existing Street Sign from Support	③④ Transverse Markings, Multi-Component, Crosswalk Line, 24 in.
⑦ Remove Existing Sheet Sign and Supports	③⑤ Pavement Message Markings, Multi-Component, Chevron
⑩ Remove and Reset Existing Sheet Sign and Supports	◇ Snowplowable Raised Pavement Marker, Two-Way, Yellow
⑬ New Sheet Sign on Exist Support	■ Snowplowable Raised Pavement Marker, Two-Way, Blue
③① Line, Thermoplastic, Solid, Yellow, 4 in.	○ Existing Ground Mounted Sheet Sign
③② Transverse Markings, Thermoplastic, Stop Bar, White, 24 in.	⊥ Proposed Ground Mounted Sheet Sign

TOTALS:

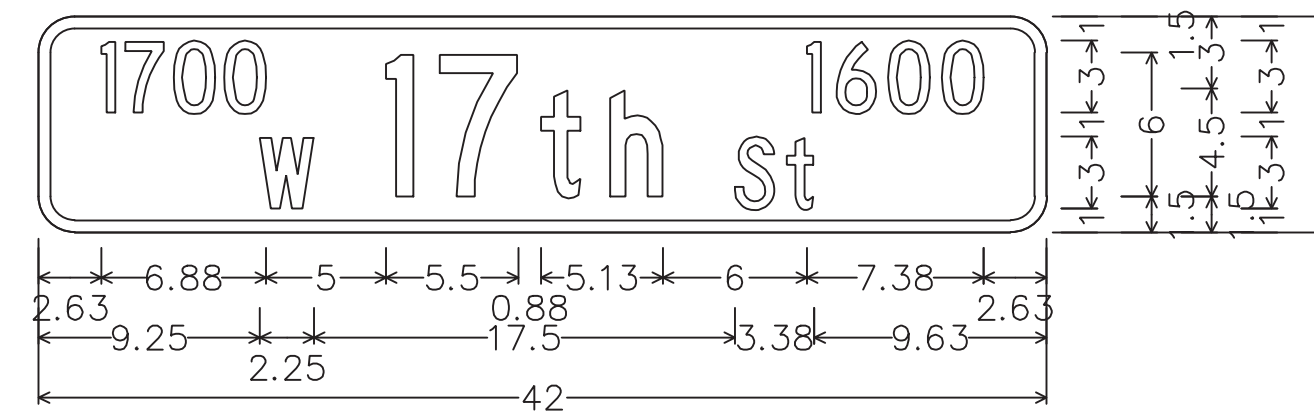
③	Remove Existing Street Sign from Support	1 EACH
⑦	Remove Existing Sheet Sign and Supports	15 EACH
⑩	Remove and Reset Existing Sheet Sign and Supports	1 EACH

	RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/2018	CITY OF BLOOMINGTON																
		DESIGN ENGINEER	DATE																	
	DESIGNED: BSF	DRAWN: BSF		PAVEMENT MARKING & SIGNING DETAILS LINE "PR-B"																
	CHECKED: BSF	CHECKED: LAR																		
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE</td> <td>BRIDGE FILE</td> </tr> <tr> <td>1"=40'</td> <td>N/A</td> </tr> <tr> <td></td> <td>DESIGNATION</td> </tr> <tr> <td></td> <td>N/A</td> </tr> <tr> <td>SURVEY BOOK</td> <td>SHEETS</td> </tr> <tr> <td>N/A</td> <td>42 of 100</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT</td> </tr> <tr> <td>N/A</td> <td>17TH STREET RECONSTRUCTION</td> </tr> </table>	SCALE	BRIDGE FILE	1"=40'	N/A		DESIGNATION		N/A	SURVEY BOOK	SHEETS	N/A	42 of 100	CONTRACT	PROJECT	N/A	17TH STREET RECONSTRUCTION
SCALE	BRIDGE FILE																			
1"=40'	N/A																			
	DESIGNATION																			
	N/A																			
SURVEY BOOK	SHEETS																			
N/A	42 of 100																			
CONTRACT	PROJECT																			
N/A	17TH STREET RECONSTRUCTION																			

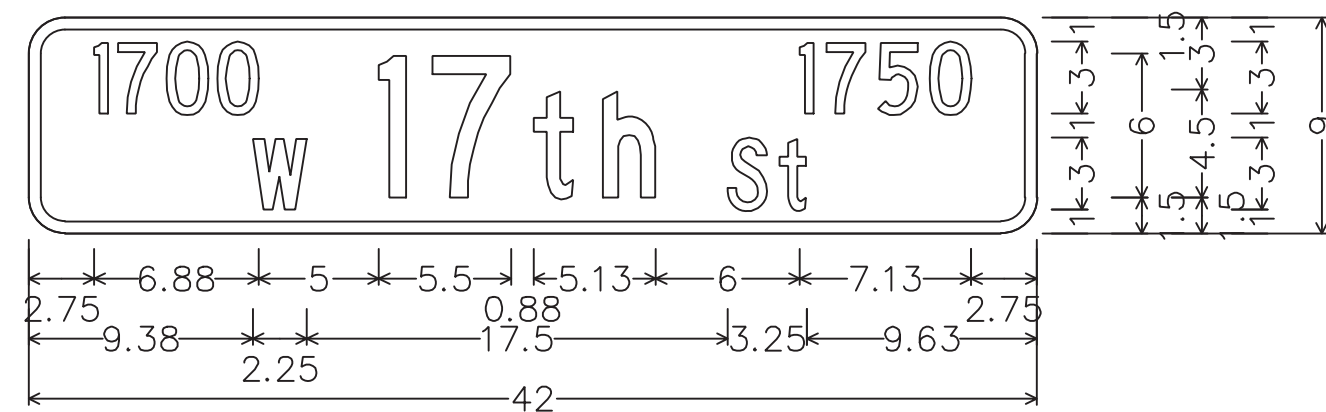
PLOTTED: Thursday, December 27, 2018 2:01:08 PM
 FILE: SHT_SIGNING_MARKING_PLAN_01.DWG



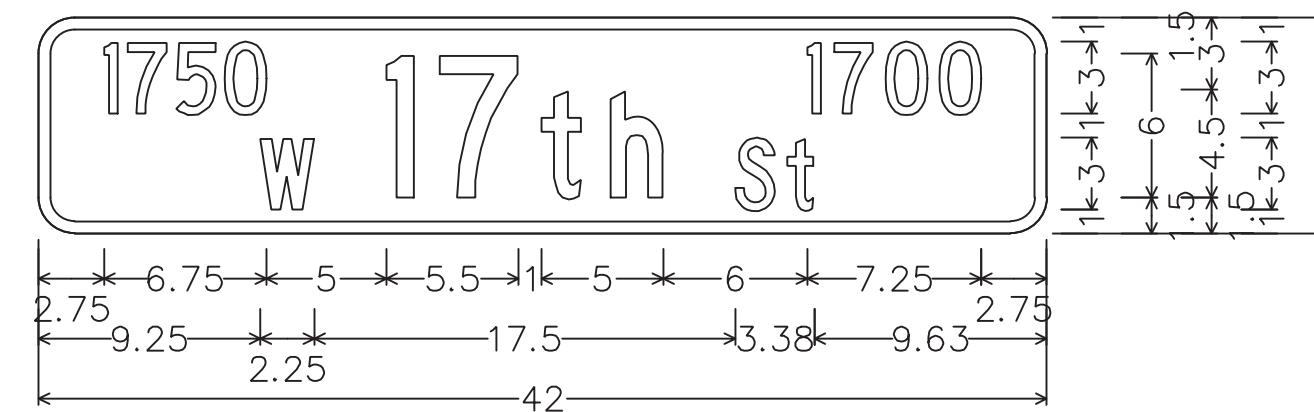
Identifier : 1600 W 17th St 1700;
 1.50" Radius, 0.50" Border, White on Green;
 [1600] C 75} spacing; [W] C; [17th] C; [1700] C; [St] C;



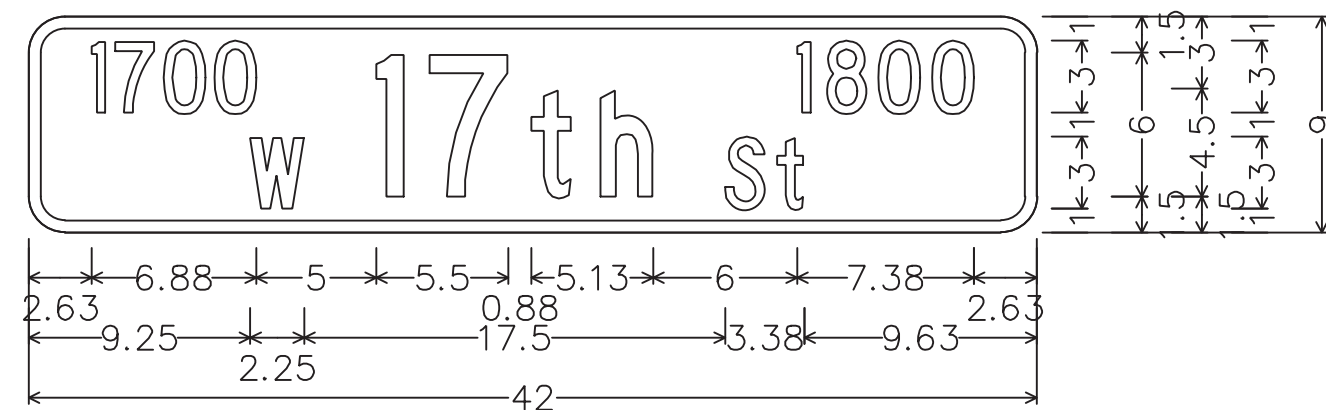
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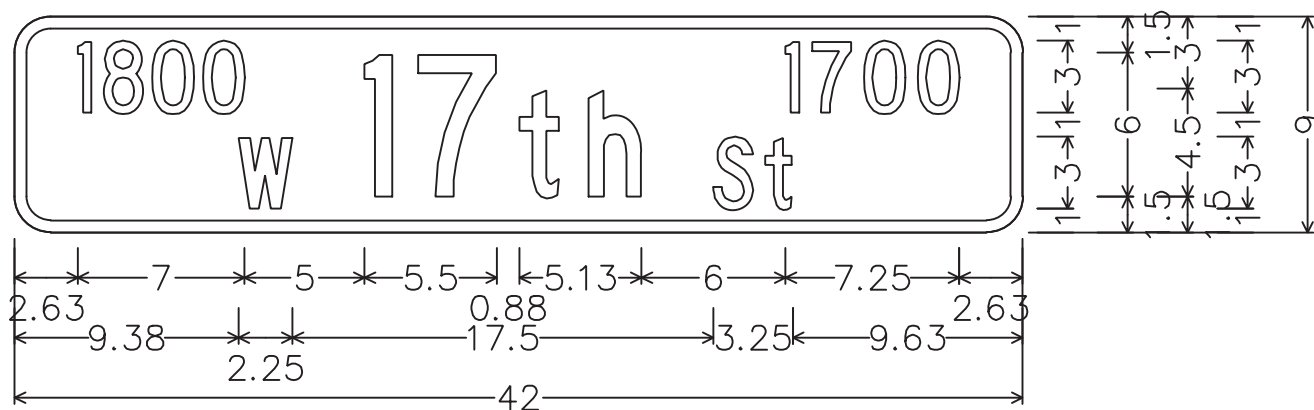
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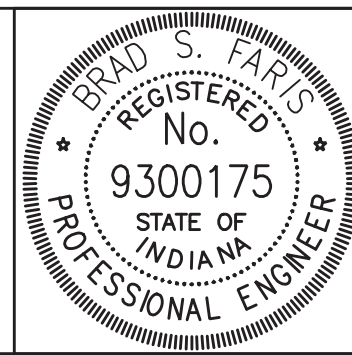
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Identifier : 1700 W 17th St 1800;
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 [1700] C 75} spacing; [W] C; [17th] C; [1800] C; [St] C;



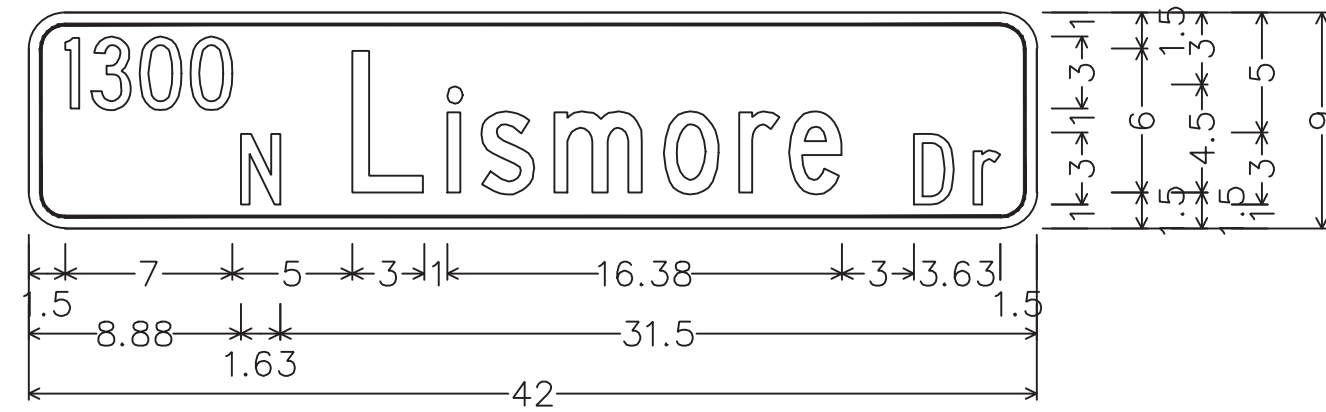
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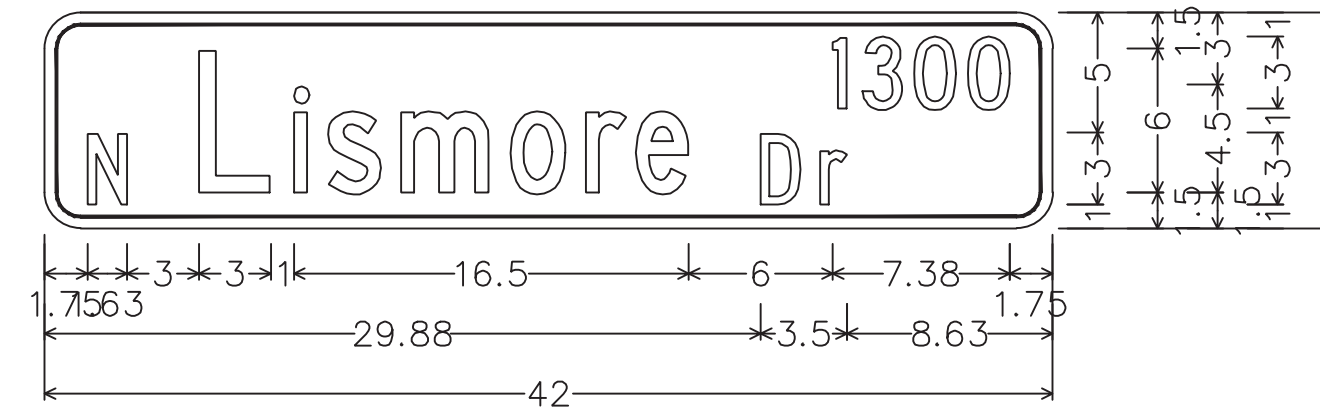
RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/2018
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON	
SIGN DETAILS	

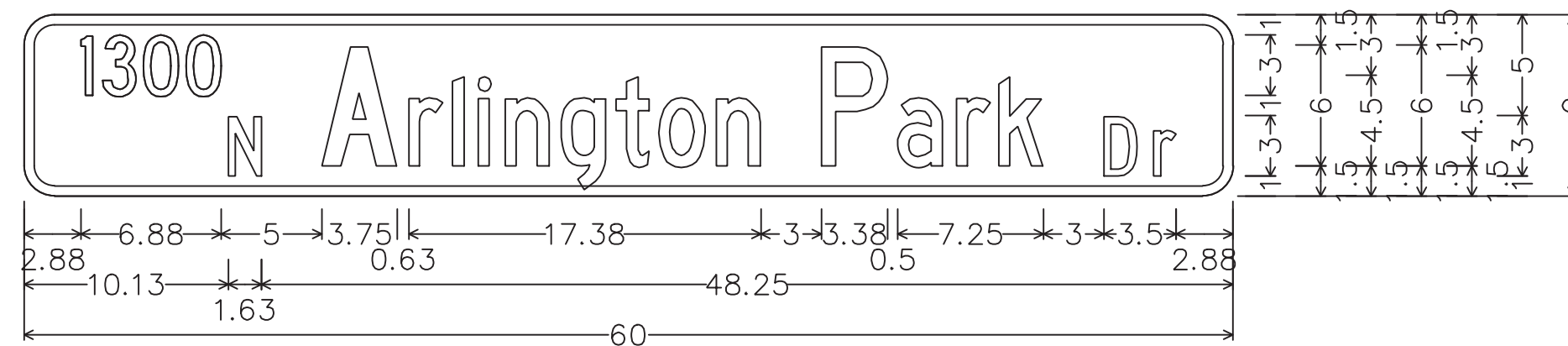
SCALE	BRIDGE FILE
1"=40'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	42 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



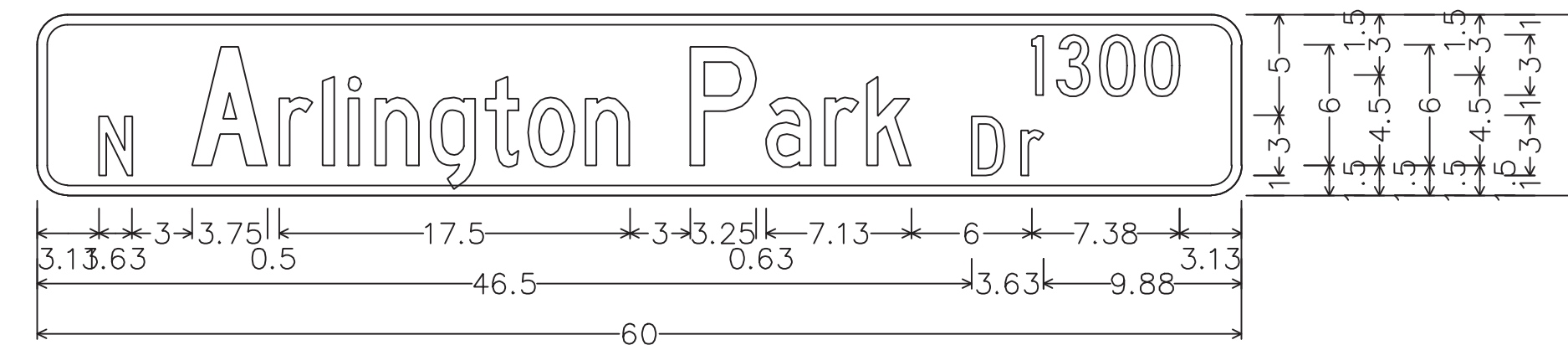
Identifier : 1300 N Arlington Park Dr;
 1.50" Radius, 0.50" Border, White on Green;
 [1300] C 75} spacing; [N] C; [Lismore] C 75} spacing;
 [] C; [Dr] C;



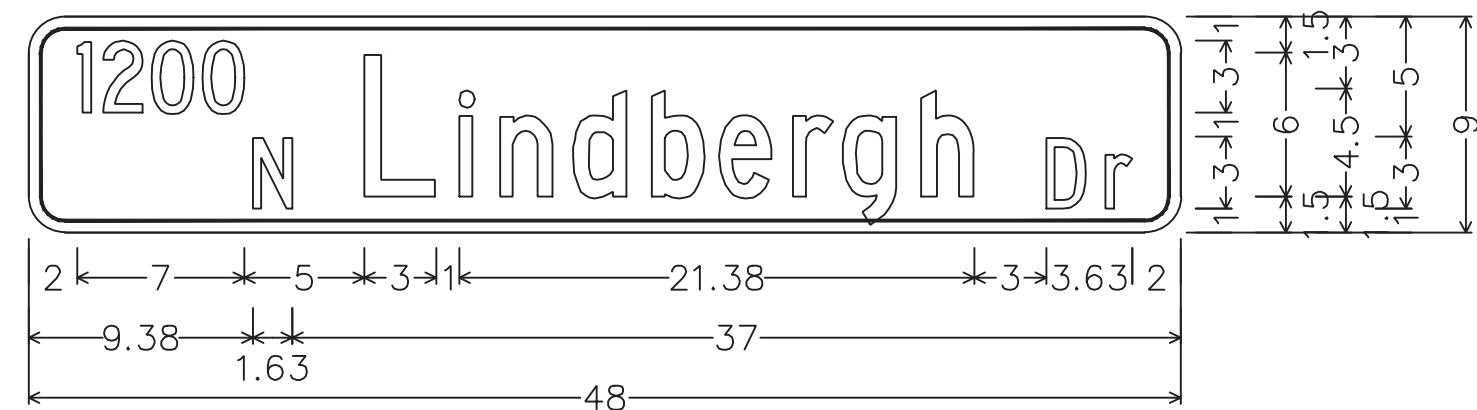
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 [] C 75} spacing; [N] C; [Lismore] C 75} spacing;
 [1300] C; [Dr] C;



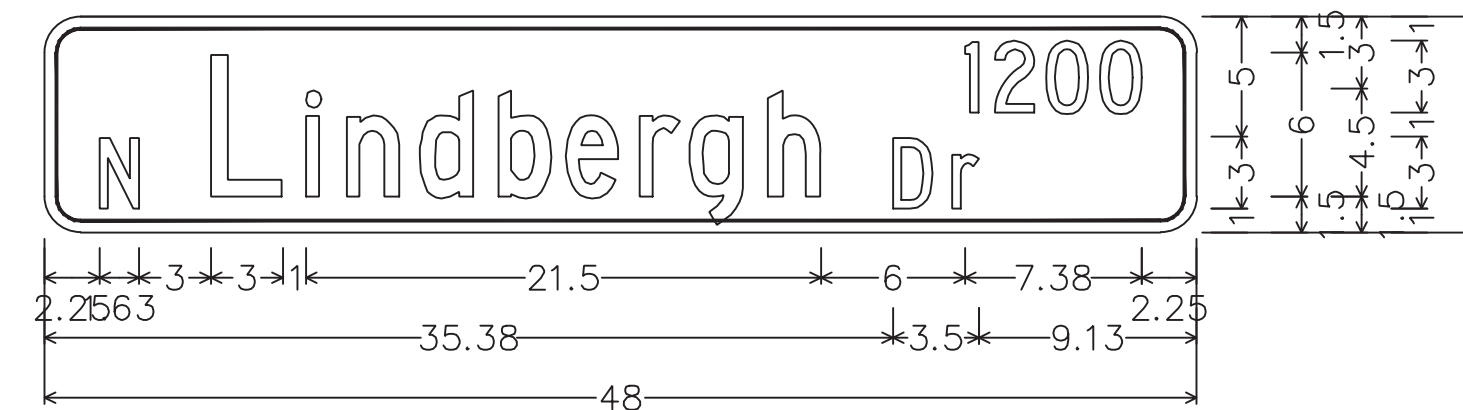
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 [1300] C 75} spacing; [N] C; [Arlington Park] C 50} spacing; [] C; [Dr] C;



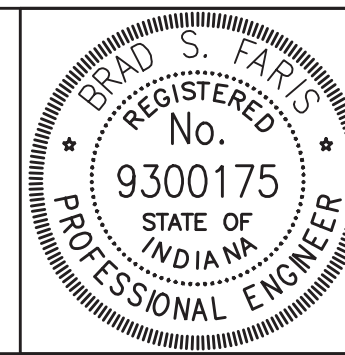
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 [] C 75} spacing; [N] C; [Arlington Park] C 50} spacing; [1300] C; [Dr] C;



Identifier : 1300 N Arlington Park Dr;
 1.50" Radius, 0.50" Border, White on Green;
 [1200] C 75} spacing; [N] C; [Lindbergh] C 75} spacing; [] C;
 [Dr] C;



Identifier : 1300 N Arlington Park Dr;
 1.50" Radius, 0.50" Border, White on Green;
 [] C 75} spacing; [N] C; [Lindbergh] C 75} spacing; [1200] C;
 [Dr] C;



RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON	
SIGN DETAILS	

SCALE	BRIDGE FILE
1"=40'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	43 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

ABBREVIATIONS	
R/W	Right of Way
L.A. R/W	Limited Access Right-of-Way
A.C.L.	Access Control Line
C.L.T.F.	Chain Link Type Fence
F.F.T.F.	Farm Field Type Fence
APP.P.L.	Apparant Property Line
APP.EXIST.R/W	Apparant Existing Right-of-Way
B	Beginning L.A. R/W
E	Existing L.A. R/W
N.E.P.L.	No Evidence of Property Line
P.G.	Profile Grade
N.B.	Northbound
S.B.	Southbound
O.M.L.	Operation Maintenance Limits

WATER METER SERVICE					
Station	Feet		Size (Inch)		Service Line
	Offset		Water Meter		
	Left	Right	Existing	Proposed	
10+85.00*	16.00		1	1	1
12+35.00*	43.50		3/4	3/4	1
21+47.00**		75.00	3/4	3/4	1
22+80.00**		19.00	5/8	3/4	1
24+03.00**	16.00		3/4	3/4	1
24+50.00**		18.85	5/8	3/4	1
24+70.00**	16.00		5/8	3/4	1
25+46.00**	16.00		3/4	3/4	1
25+93.00**		22.00	3/4	3/4	1
26+82.00**	16.00		3/4	3/4	1
27+42.00**	16.00		3/4	3/4	1
28+27.00**	16.00		3/4	3/4	1
28+55.00**	16.00		3/4	3/4	1
28+55.00**		22.00	3/4	3/4	1
29+30.00**	16.00		3/4	3/4	1
29+45.00**		19.00	3/4	3/4	1
30+17.00**	16.00		3/4	3/4	1
30+63.00**	16.00		3/4	3/4	1
30+87.00**		23.50	3/4	3/4	1

* - Station and offset from alignment "W-1" .
** - Station and offset from alignment "PR-B" .

GENERAL NOTES

- Utilities shall be constructed per current City of Bloomington construction specifications and Standard Details.
- For restraint joint calculations the EBAA Restraint Joint Calculator was used.
*Inputs into the program were:

DUCTILE IRON PIPE AND PVC PIPE
 - Soil Type (SM)
 - Safety Factor (1.5)
 - Trench Type (5)
 - Test Pressure (200 PSI) (Ductile Iron Pipe)
 - Test Pressure (100 PSI) (PVC Pipe)
* Should conditions vary from the assumptions listed above, the Contractor shall immediately notify the Engineer.
- Water mains shall be Polywrapped Ductile Iron Pipe.
- Provide separation of water mains from sanitary sewers, storm drains, or potential sources of contamination in accordance with 327 IAC Article 8. Should the contractor determine these requirements can not be met, the owner, City of Bloomington Utilities (CBU), and engineer shall be notified immediately for further direction.
- All valves shall be operated by CBU unless permission is specifically granted in writing.
- Proposed water main locations are approximate only in that existing utilities or other obstacles may affect exact alignment and profile of the water main. Utilities, contour changes or other obstacles may increase or decrease this depth accordingly. Water main horizontal and vertical changes are subject to CBU approval. Do not exceed pipe manufacturer's maximum recommended pipe deflection angle.
- The trench shall be safely opened sufficiently ahead of pipe laying to reveal potential obstructions. The trench shall be properly protected and/or barricaded in accordance with OSHA requirements.
- The contractor shall be responsible for all tests for leakage, infiltration, and deflection as established by CBU. Any sections of water main not passing said tests for acceptance shall be repaired or replaced by the contractor.
- Coordinate work with CBU, and all other contractors and utilities performing work in the area prior to construction.
- Pre construction Meeting: a pre-construction meeting with the City of Bloomington for Utilities prior to the start of Construction. The contractor must contact the Utilities Technician at (812) 349-3676 to schedule the meeting, which will be held in the City of Bloomington Utilities Office.
- Utilities Inspection: The contractor shall notify the City of Bloomington Utilities Engineering Department one (1) working day prior to construction of any water or sanitary sewer utility work. A CBU inspector must have notice so work can be inspected, documented and a proper as-built made. When a contractor works on weekends, a CBU designated holiday beyond normal CBU work hours, the contractor will pay for the inspector's overtime. For CBU work hours and holiday information, please contact the City of Bloomington Utilities Engineering Department at (812) 349-3660.

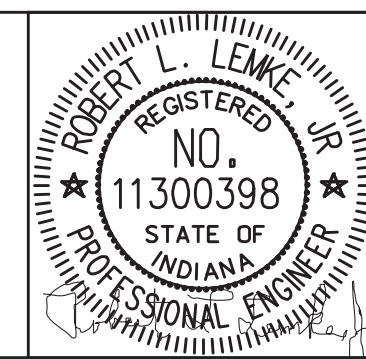
REVISIONS

SHEET NO.	DATE	DESCRIPTION

Sequence of Waterline Tie-In Connection

- Cut in Connections
- Install Line Stops and Blind Flange
 - Remove Existing Pipe
 - Install New Pipe Connections
 - Connect to New Waterline
- Wet Tap Connections
- Install Wet Tap and Valve
 - Install Line Stop(s) and Blind Flange
 - Connect to New Waterline

PLOTTED: Thursday, December 27, 2018 5:25:48 PM



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LTM	DRAWN: CDF	
CHECKED: GAG	CHECKED: LTM	

CITY OF BLOOMINGTON
UTILITY GENERAL NOTES

SCALE	BRIDGE FILE
N/A	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	45 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

BEGIN INCIDENTAL CONSTRUCTION
POT 84+54 "S-8-A"

FIRST AMERICAN PROPERTIES, LLC

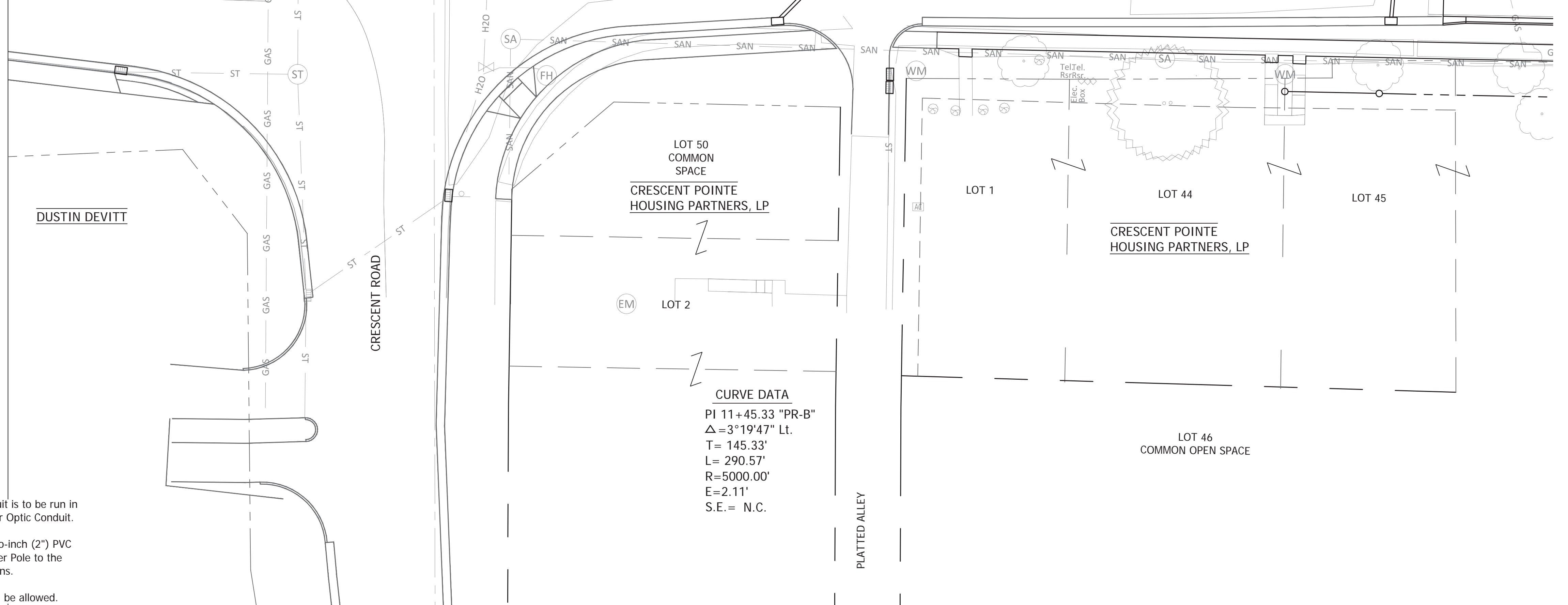
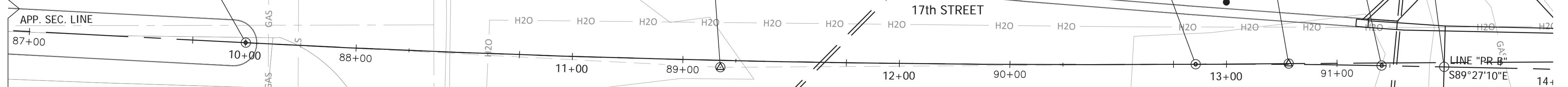
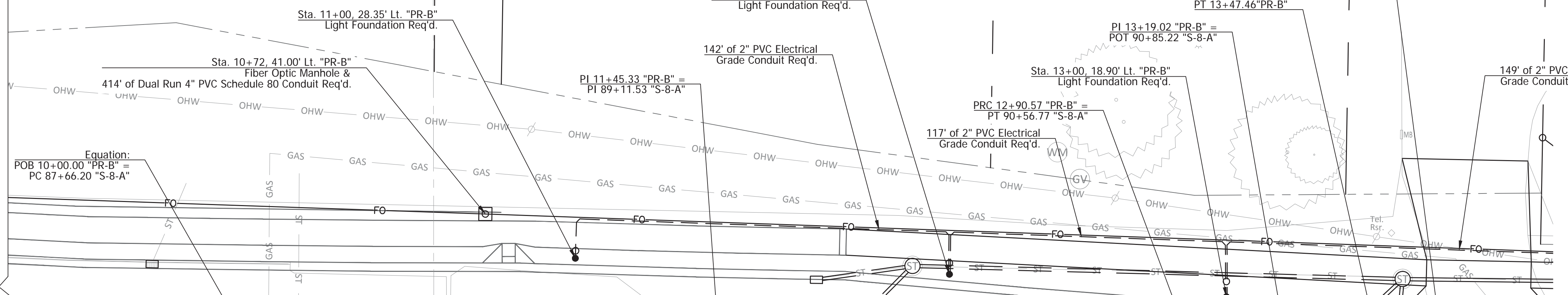
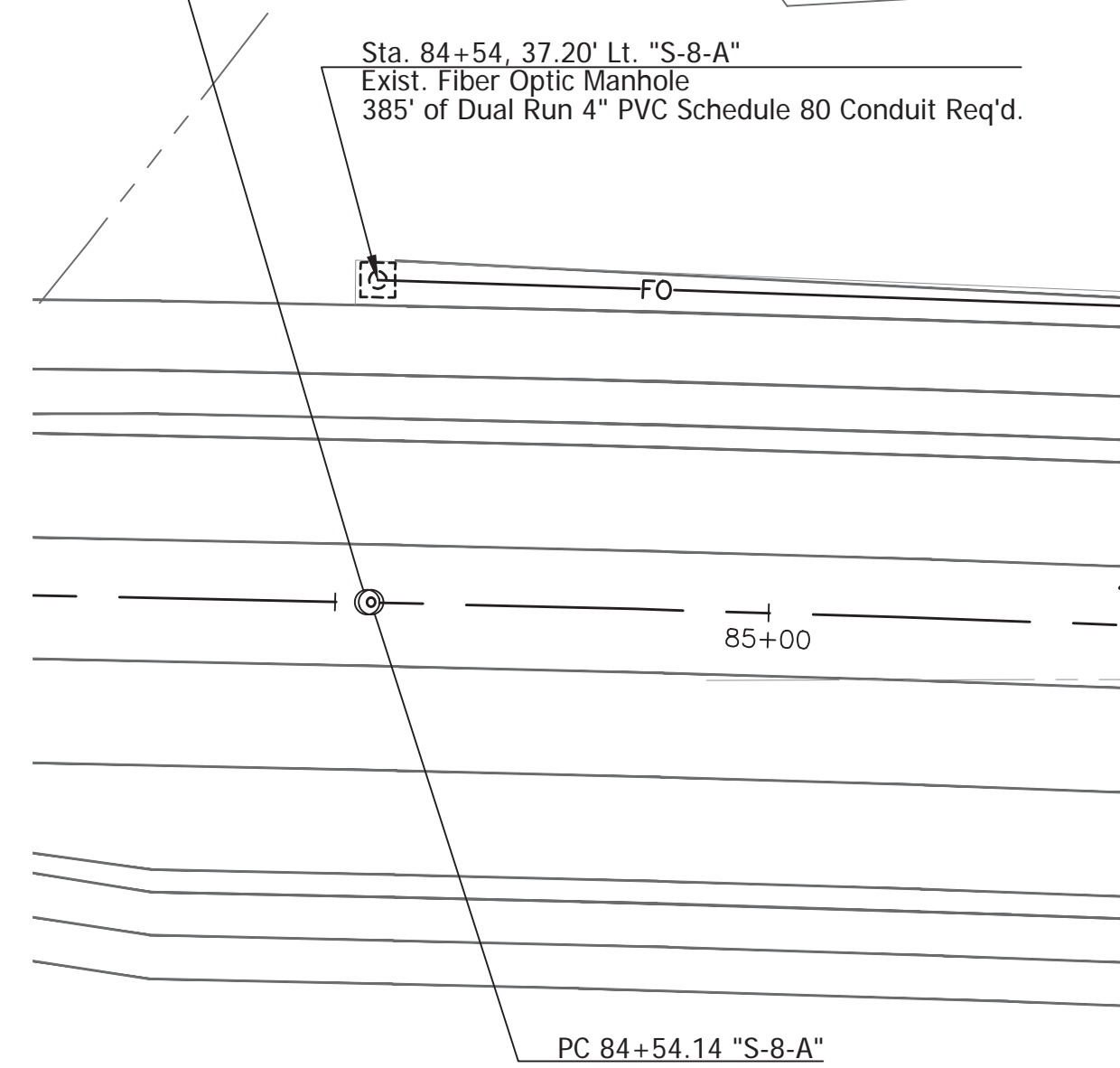
BEGIN PROJECT
POT 13+66.58"PR-B" =

60' ROADWAY &
UTILITY EASEMENT

CURVE DATA
PI 13+19.02 "PR-B"
Δ=1°34'13" Rt.
T= 28.45'
L= 56.89'
R=2075.62'
E= 0.20'
S.E.= N.C.

STATE OF INDIANA

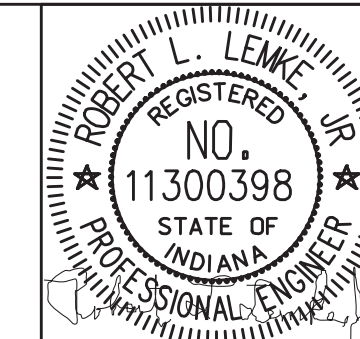
FIRST AMERICAN PROPERTIES, LLC



CURVE DATA
PI 11+45.33 "PR-B"
Δ=3°19'47" Lt.
T= 145.33'
L= 290.57'
R=5000.00'
E=2.11'
S.E.= N.C.

LIGHTING LEGEND
— 2" PVC Electrical Grade Conduit
○ Lighting Handhole
● Light Foundation

LIGHTING NOTES:
1. The 2" PVC Electrical Grade Conduit is to be run in the same trench as the proposed Fiber Optic Conduit.
2. Contractor shall install One (1) two-inch (2") PVC Electrical Grade conduit from the Power Pole to the lighting handhole as shown on the plans.
3. Only sweep 90 degree bends shall be allowed.

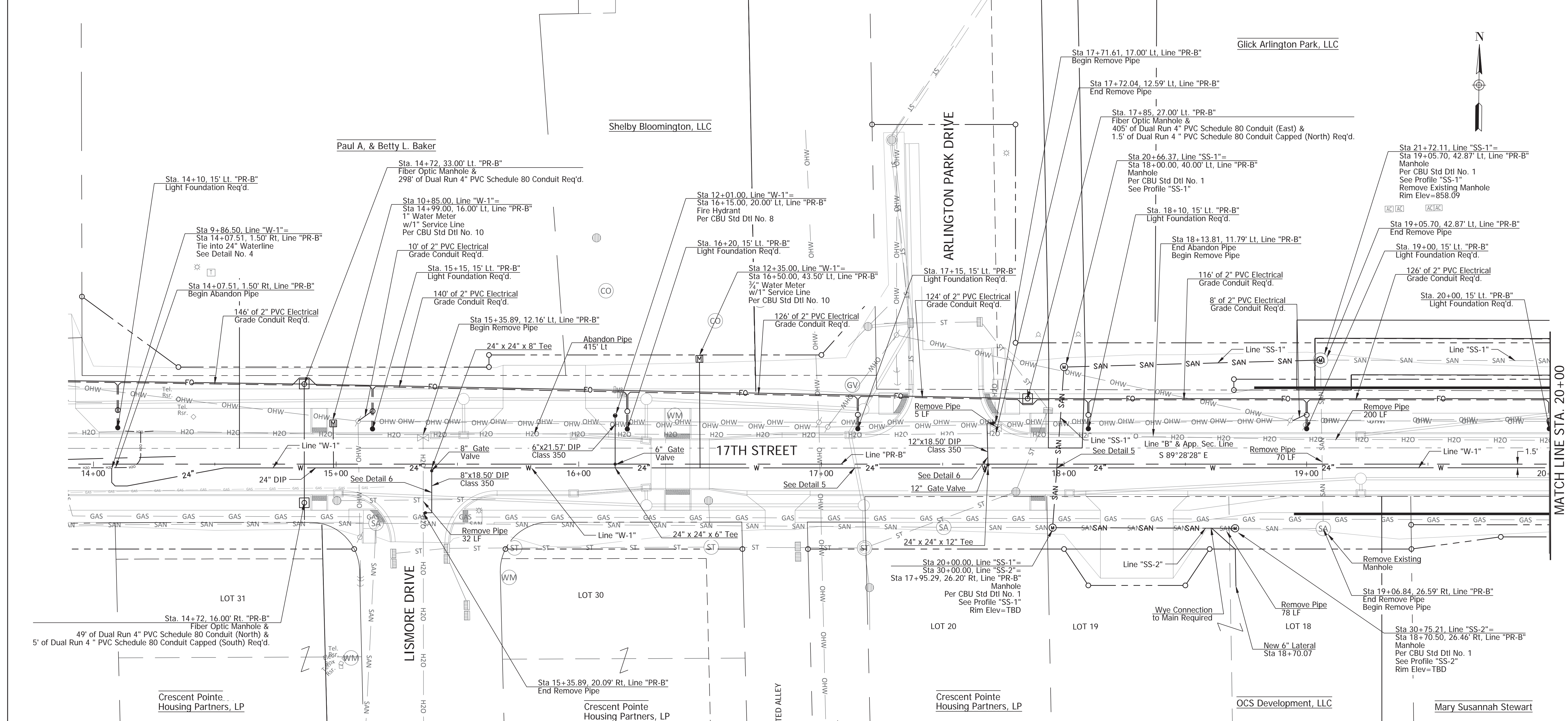


RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE _____
DESIGNED: BSF DRAWN: BSF
CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON
UTILITY PLAN
STA 10+00 TO STA 14+00

SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 46 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

PLOTTED: Friday, December 28, 2018 11:12:03 AM



Glick Arlington Park, LLC

Shelby Bloomington, LLC

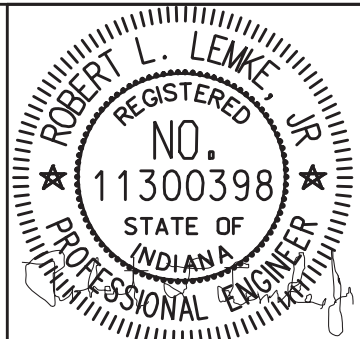
Paul A. & Betty L. Baker



MATCH LINE STA. 20+00

- LIGHTING LEGEND**
- 2" PVC Electrical Grade Conduit
 - Lighting Handhole
 - Light Foundation

- LIGHTING NOTES:**
1. The 2" PVC Electrical Grade Conduit is to be run in the same trench as the proposed Fiber Optic Conduit.
 2. Contractor shall install One (1) two-inch (2") PVC Electrical Grade conduit from the Power Pole to the lighting handhole as shown on the plans.
 3. Only sweep 90 degree bends shall be allowed.



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LTM	DRAWN: CDF	
CHECKED: GAG	CHECKED: LTM	

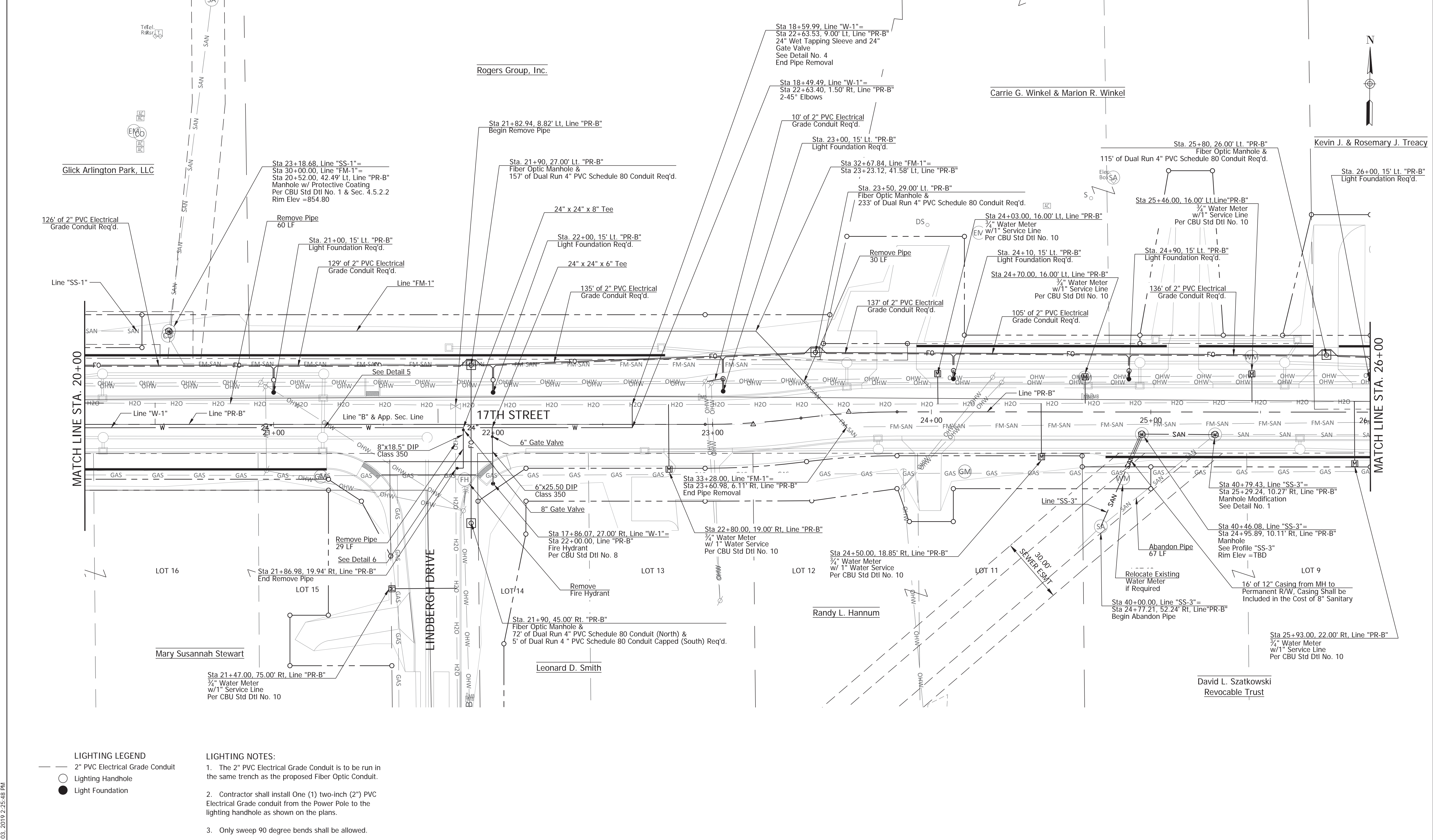
CITY OF BLOOMINGTON

UTILITY PLAN
STA 14+00 TO STA 20+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	47 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

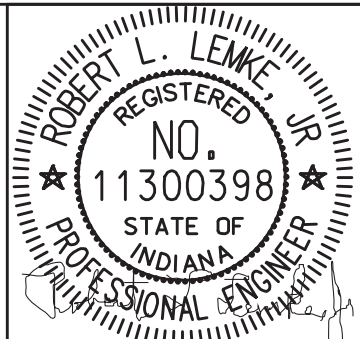
PLOTTED: Thursday, January 03, 2019 2:22:22 PM

FILE: UT_PLAN_02.DWG



LIGHTING LEGEND
 — 2" PVC Electrical Grade Conduit
 ○ Lighting Handhole
 ● Light Foundation

LIGHTING NOTES:
 1. The 2" PVC Electrical Grade Conduit is to be run in the same trench as the proposed Fiber Optic Conduit.
 2. Contractor shall install One (1) two-inch (2") PVC Electrical Grade conduit from the Power Pole to the lighting handhole as shown on the plans.
 3. Only sweep 90 degree bends shall be allowed.



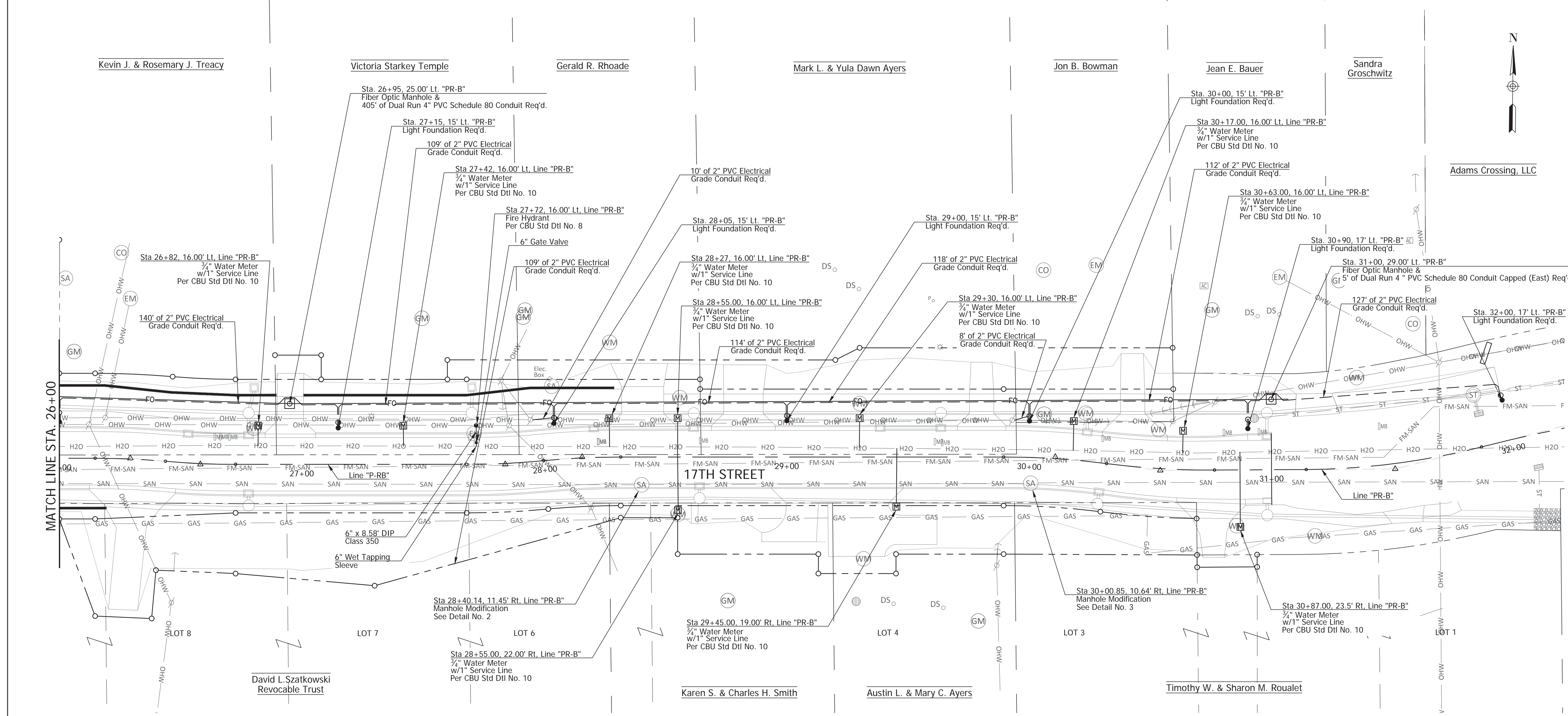
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LTM	DRAWN: CDF	
CHECKED: GAG	CHECKED: LTM	

CITY OF BLOOMINGTON
 UTILITY PLAN
 STA 20+00 TO STA 26+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	48 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, January 03, 2019 2:25:48 PM

FILE: UT_PLAN_03.DWG



LIGHTING LEGEND

- 2" PVC Electrical Grade Conduit
- Lighting Handhole
- Light Foundation

LIGHTING NOTES:

1. The 2" PVC Electrical Grade Conduit is to be run in the same trench as the proposed Fiber Optic Conduit.
2. Contractor shall install One (1) two-inch (2") PVC Electrical Grade conduit from the Power Pole to the lighting handhole as shown on the plans.
3. Only sweep 90 degree bends shall be allowed.

PLOTTED: Thursday, December 27, 2018 5:51:52 PM

FILE: UT_PLAN_04.DWG

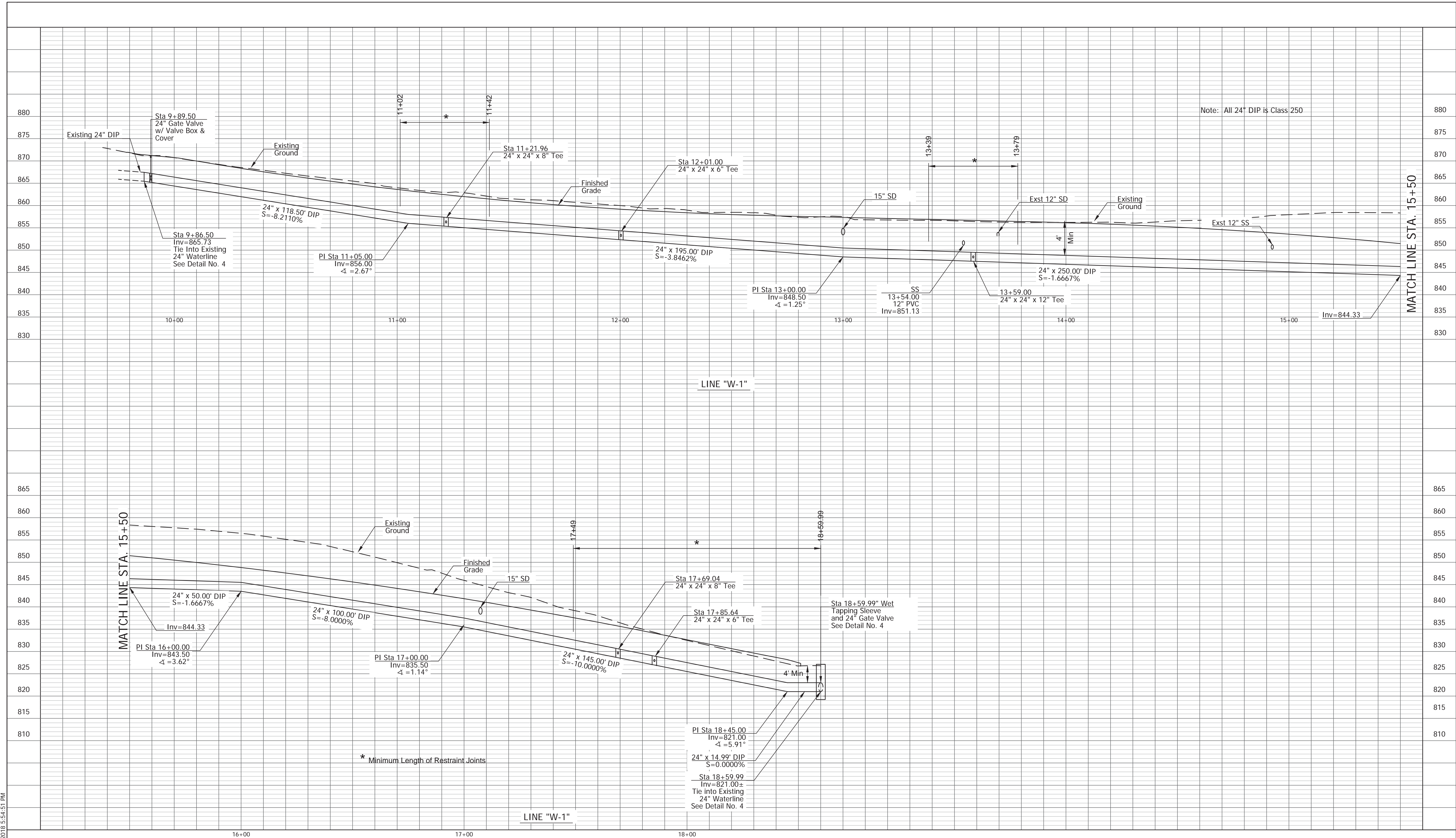


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LTM	DRAWN: CDF	
CHECKED: GAG	CHECKED: LTM	

CITY OF BLOOMINGTON

UTILITY PLAN
STA 26+00 TO STA 32+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	49 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLOTTED: Thursday, December 27, 2018 5:54:51 PM

FILE: UT_PROFILE_01.DWG



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LTM	DRAWN: CDF	
CHECKED: GAG	CHECKED: LTM	

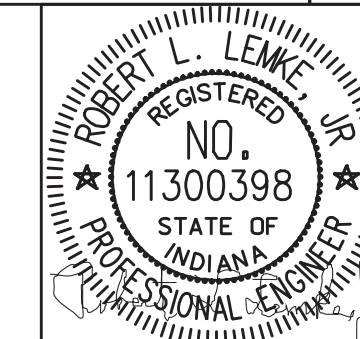
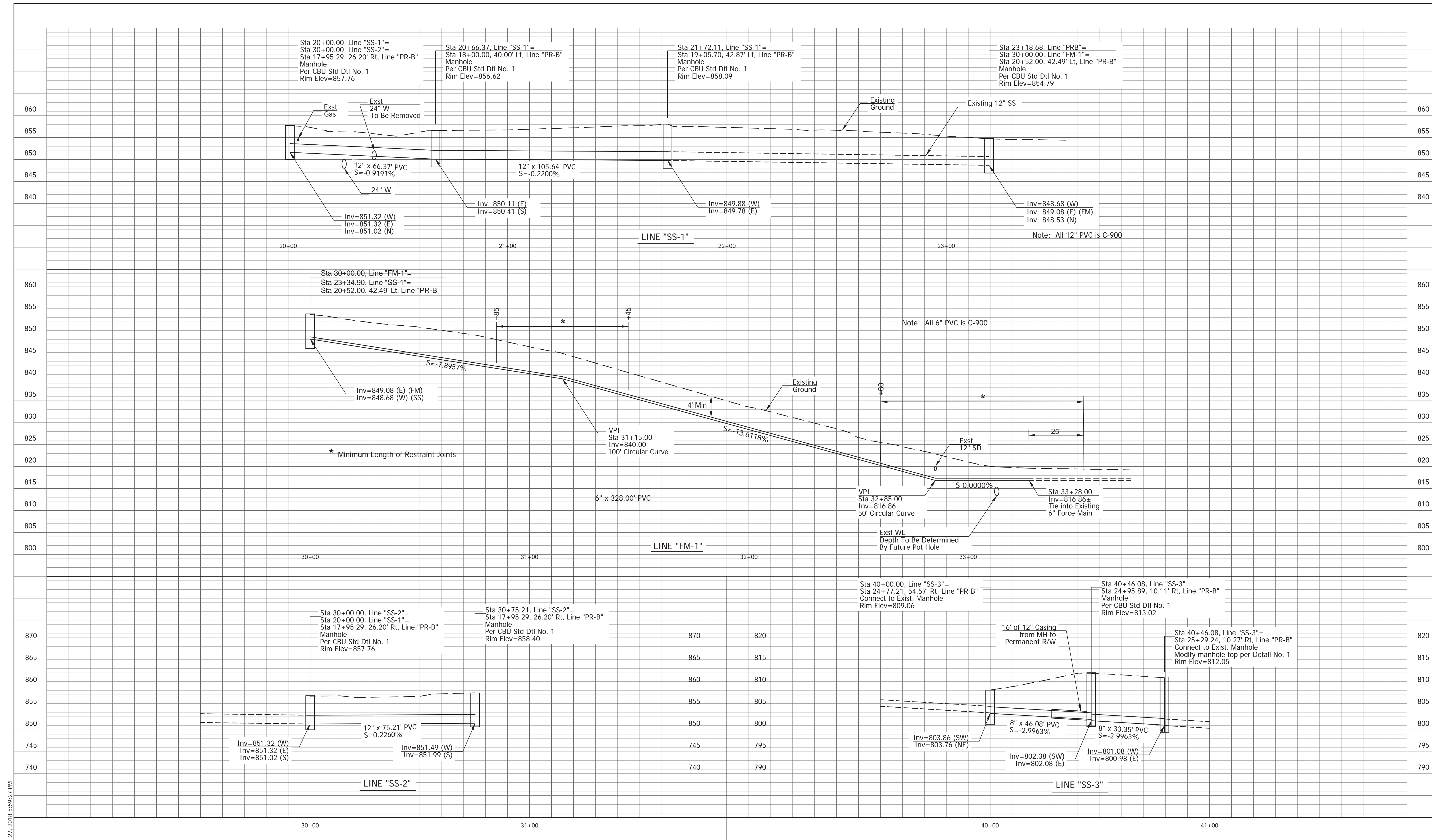
CITY OF BLOOMINGTON

UTILITY PROFILE

SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	50 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, December 27, 2018 5:59:27 PM

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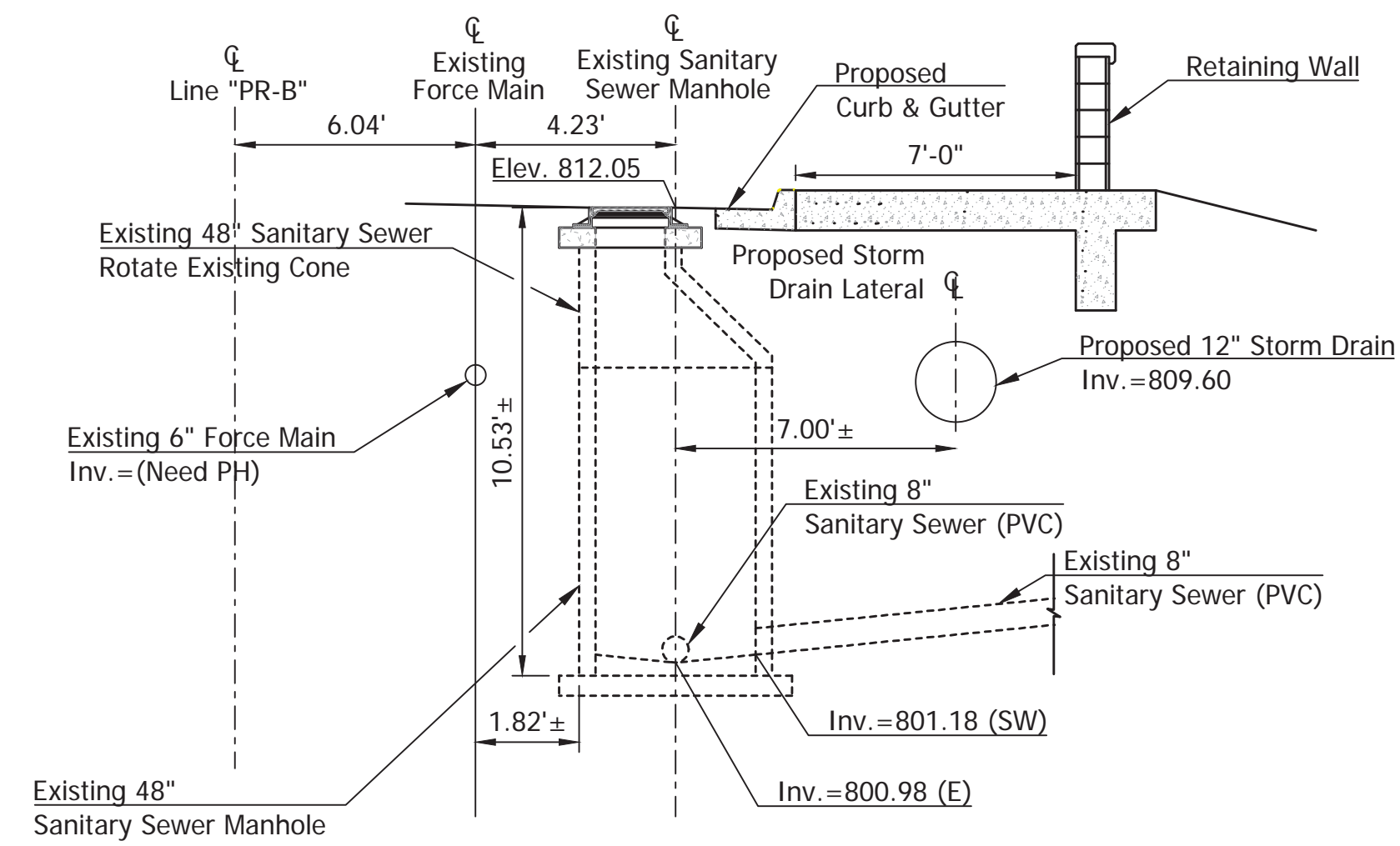


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LTM	DRAWN: CDF	
CHECKED: GAG	CHECKED: LTM	

CITY OF BLOOMINGTON

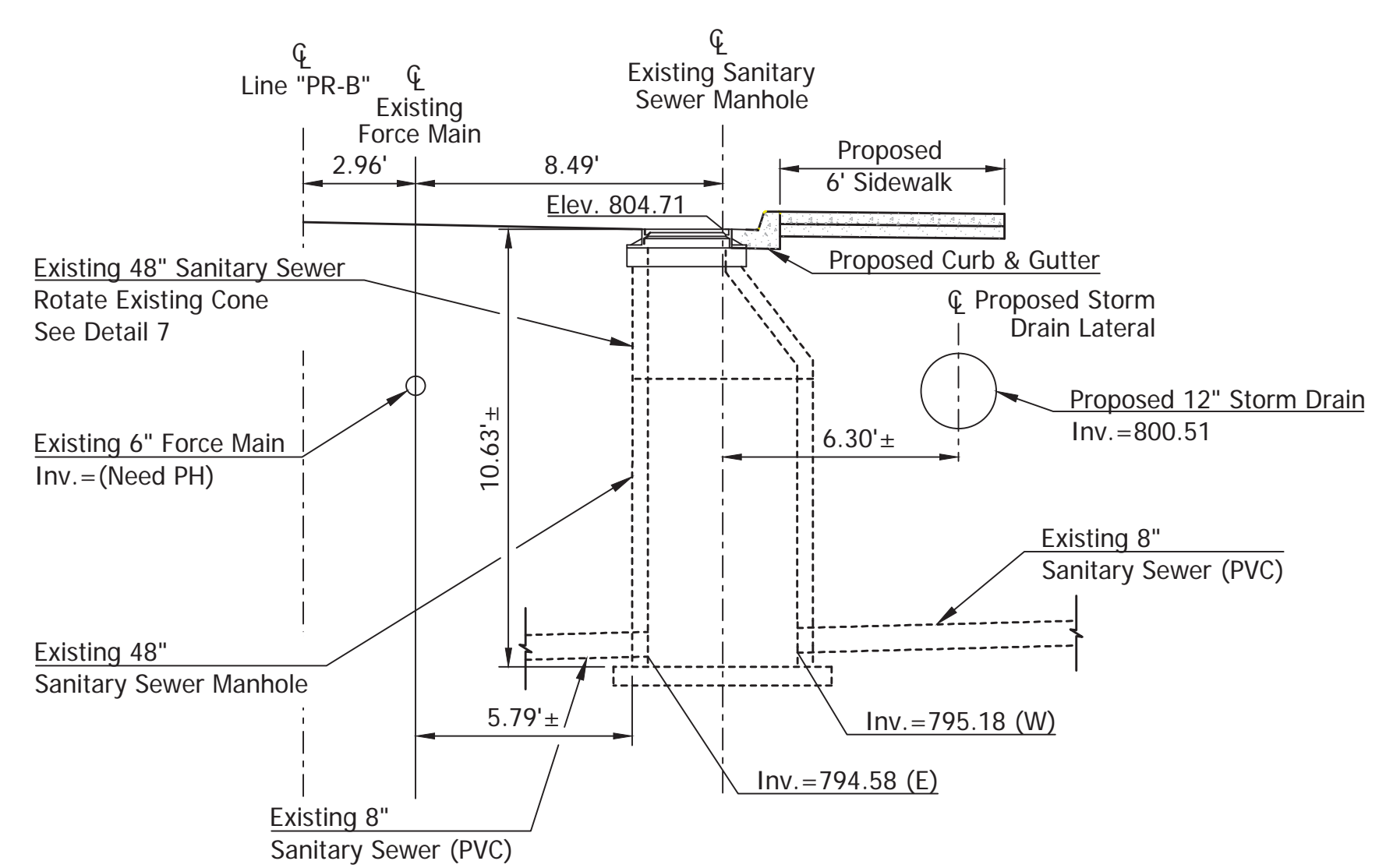
UTILITY PROFILE

SCALE	BRIDGE FILE
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VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	51 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



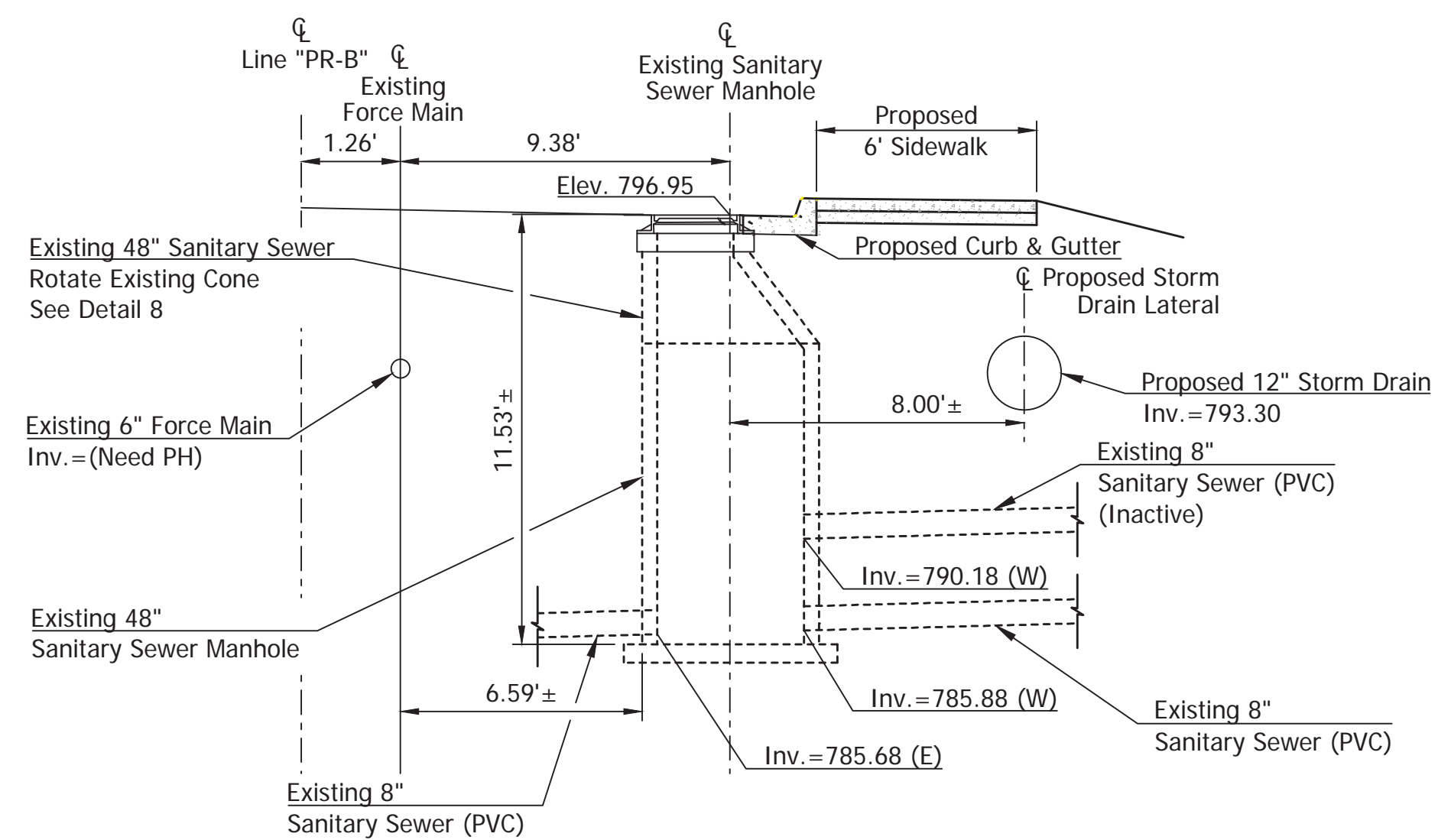
STATION 25+29.24 LINE "PR-B"
EXISTING SANITARY SEWER
MANHOLE MODIFICATION

DETAIL 1



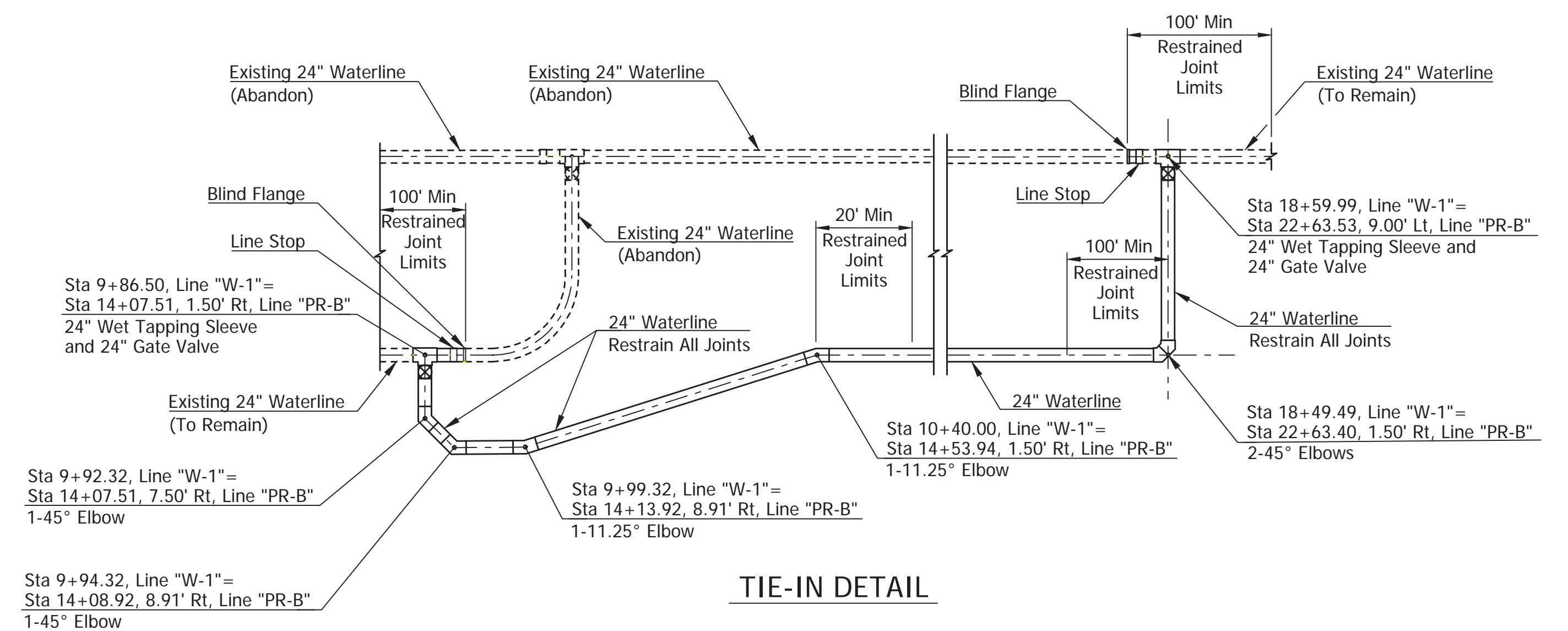
STATION 28+40.14 LINE "PR-B"
EXISTING SANITARY SEWER
MANHOLE MODIFICATION

DETAIL 2



STATION 30+00.85 LINE "PR-B"
EXISTING SANITARY SEWER
MANHOLE MODIFICATION

DETAIL 3



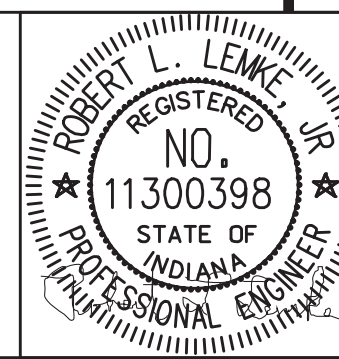
TIE-IN DETAIL

DETAIL 4

*Note: Site Conditions May Require Horizontal Tapping Valves. Contractor to Verify Depth Before Ordering.

PLOTTED: Thursday, December 27, 2018 6:05:15 PM

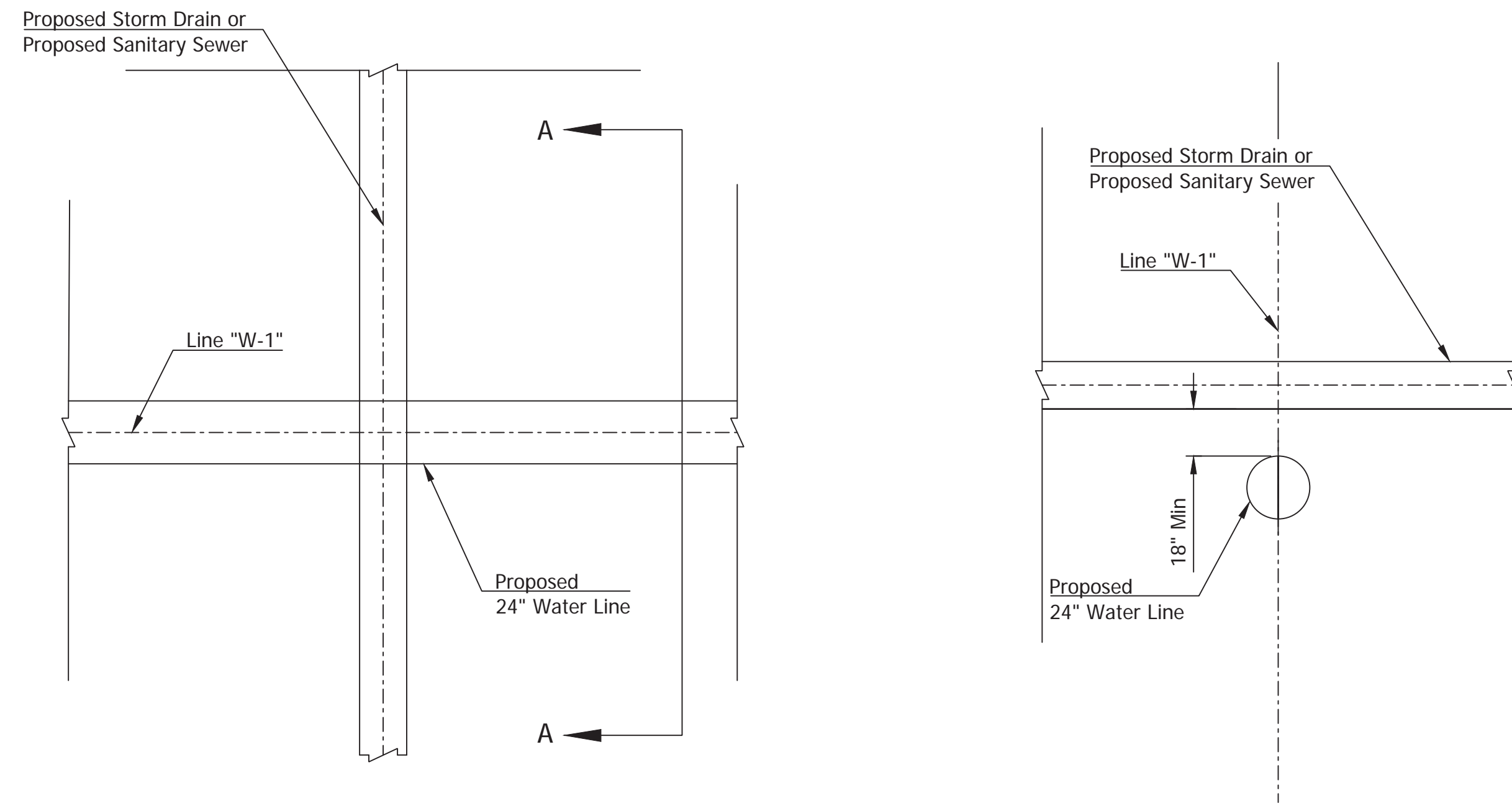
FILE: UT_DETAIL_01.DWG



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON	
UTILITY DETAILS	

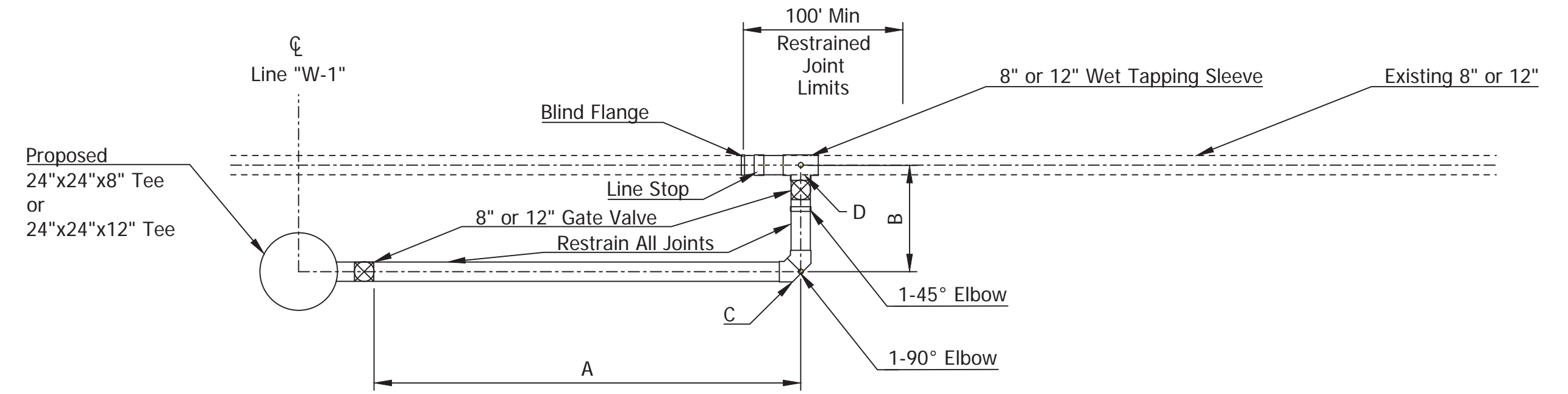
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N.T.S.	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	52 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



STATION 13+00.46 & 17+08.55 LINE "W-1"
STORM SEWER CROSSINGS
STATION 13+83.13 LINE "W-1"
SANITARY SEWER CROSSING

DETAIL 5

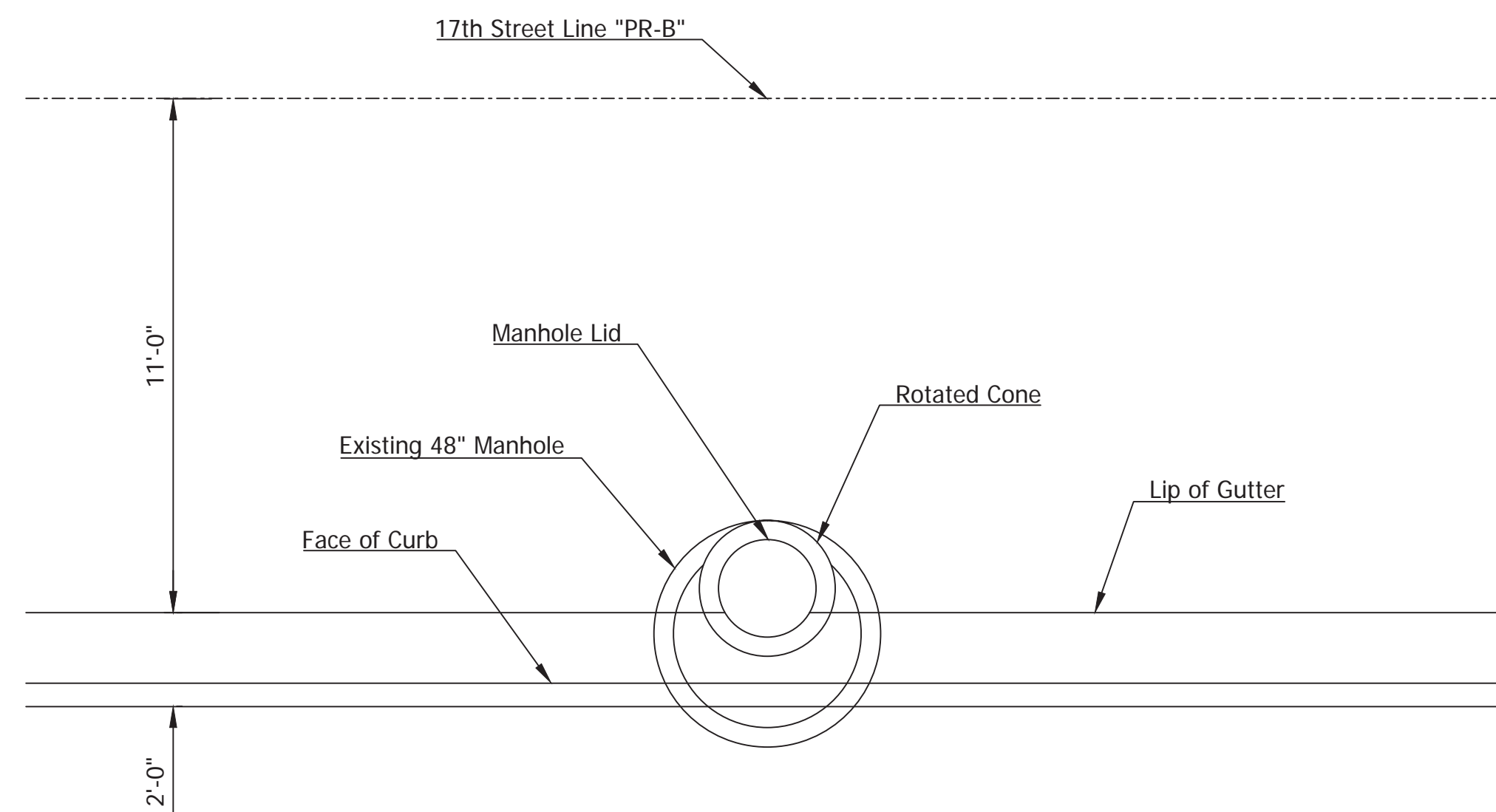
SECTION A-A



WATERLINE DATA CHART

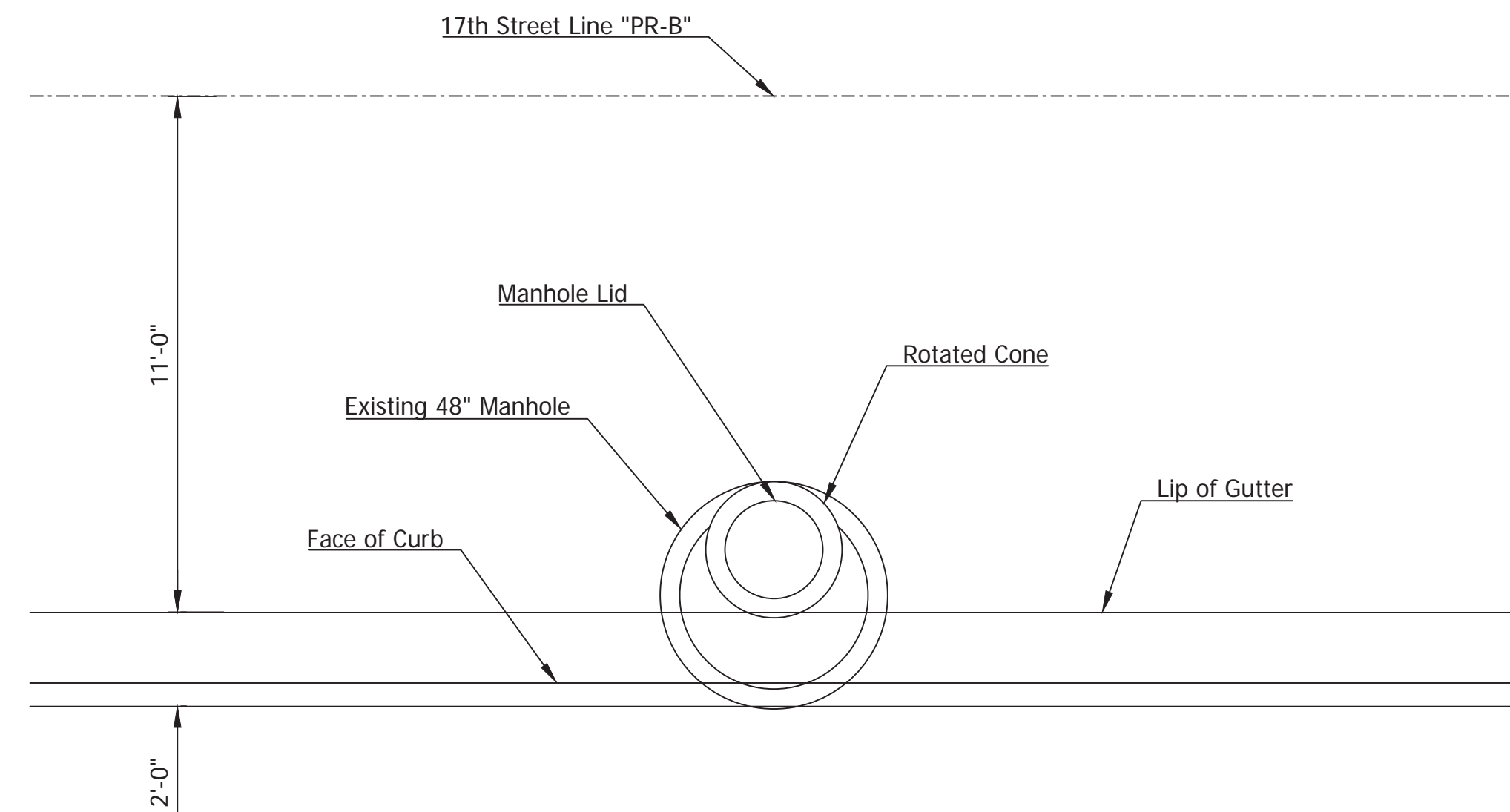
STATION LINE "W-1"	SIDE	OFFSET (FT)		INVERT	
		A	B	C	D
11+21.96	RIGHT	18.50	2.85	856.01	858.86
13+59.00	LEFT	18.50	3.47	848.01	851.48
17+69.04	RIGHT	18.50	4.58	829.27	833.85

DETAIL 6



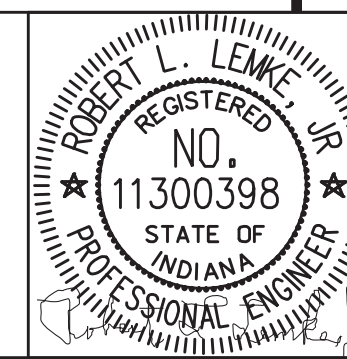
MANHOLE AT STATION 28+40.14 LINE "PR-B"

DETAIL 7



MANHOLE AT STATION 30+00.85 LINE "PR-B"

DETAIL 8

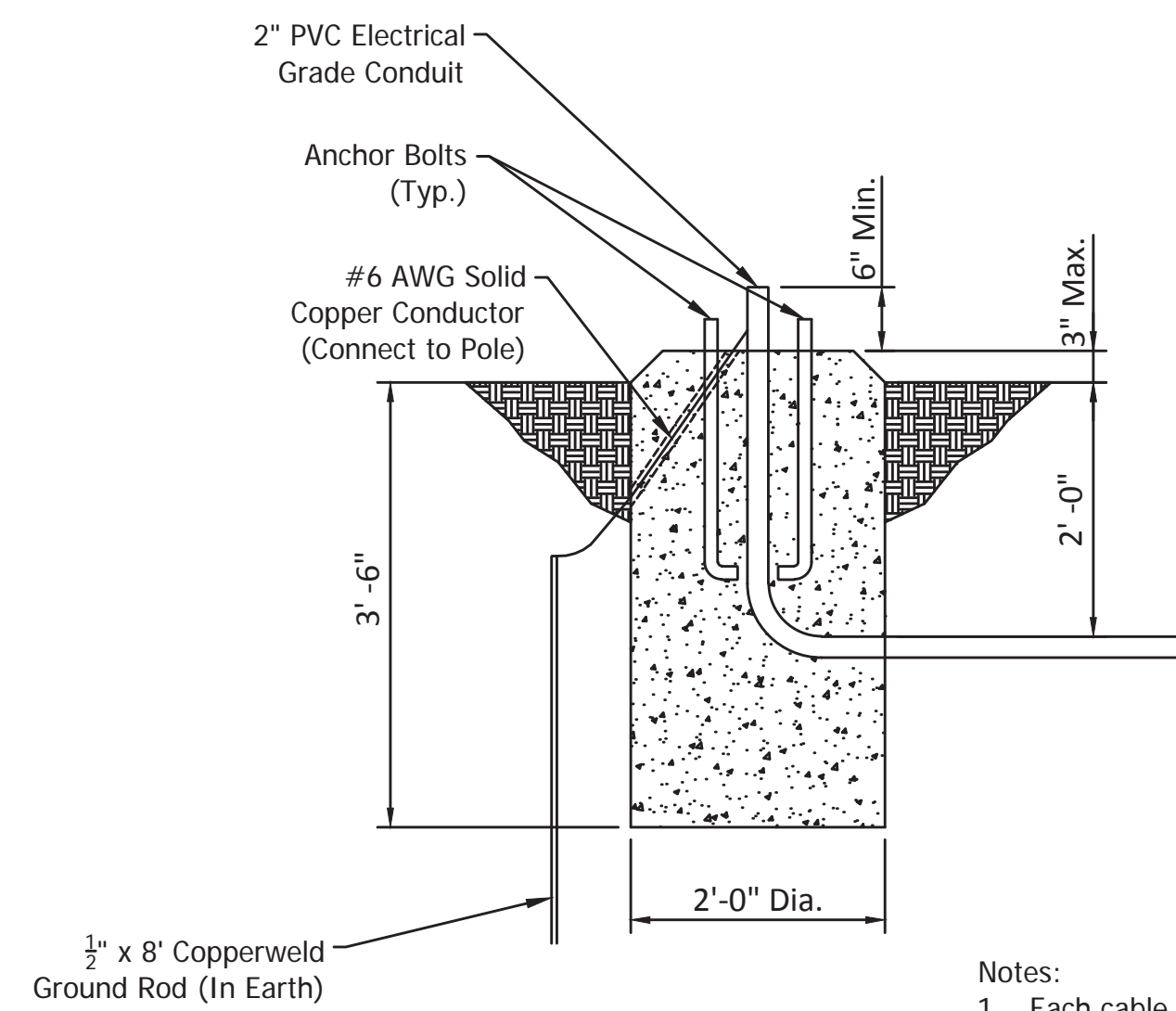
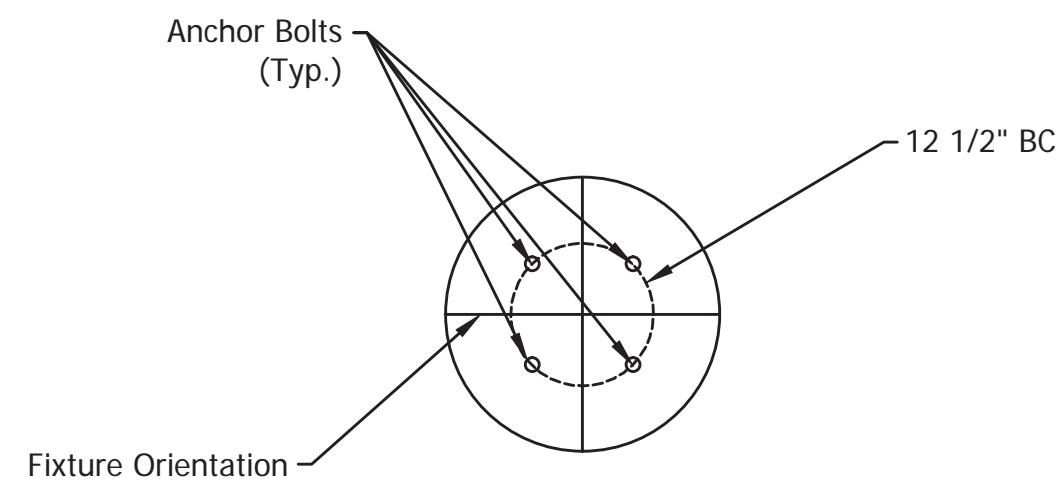


RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE _____
DESIGNED: LTM DRAWN: CDF
CHECKED: GAG CHECKED: LTM

CITY OF BLOOMINGTON

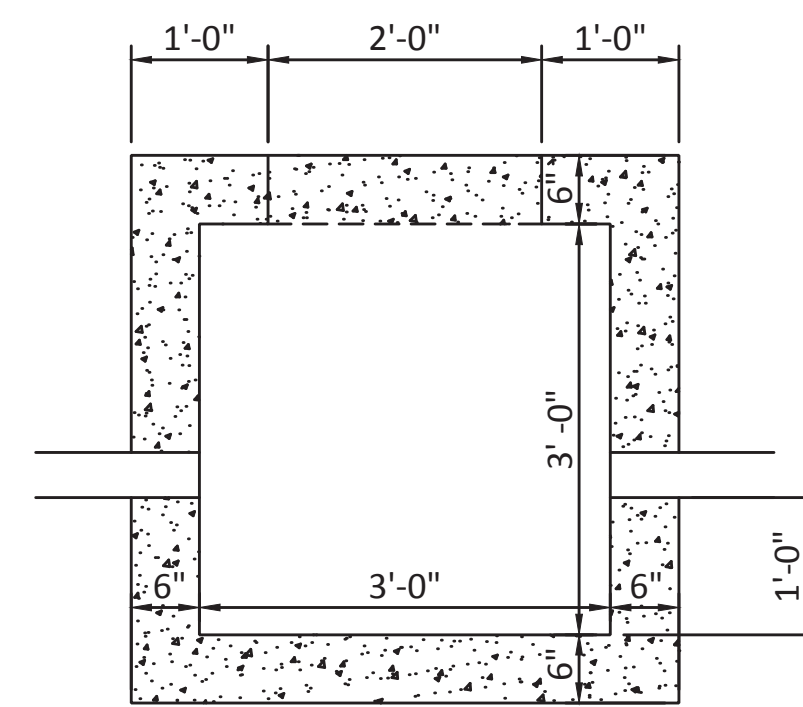
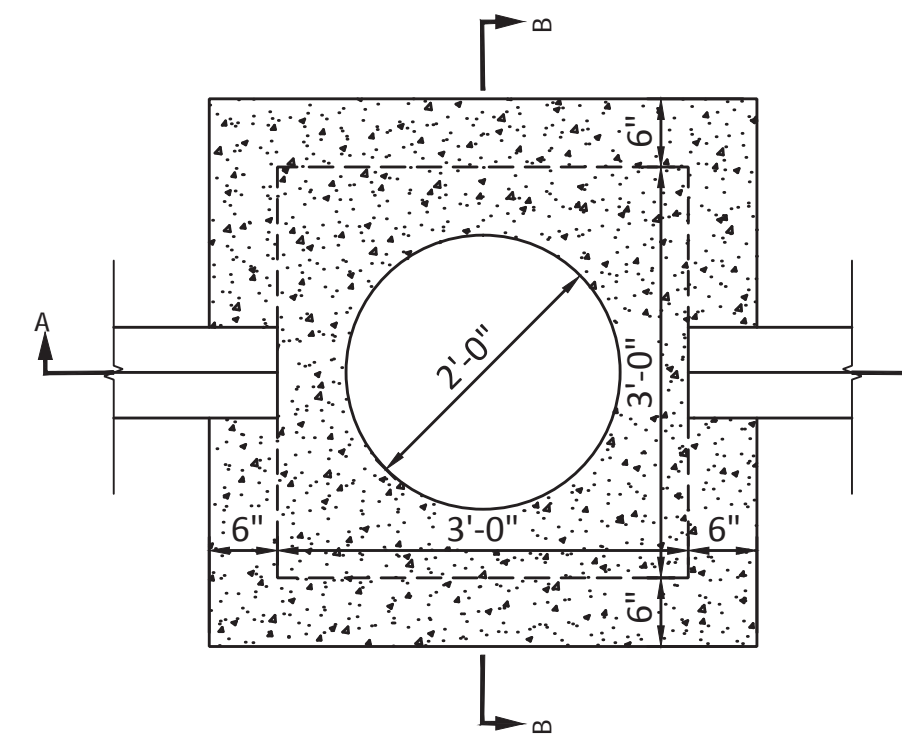
UTILITY DETAILS

SCALE	BRIDGE FILE
N.T.S.	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	53 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

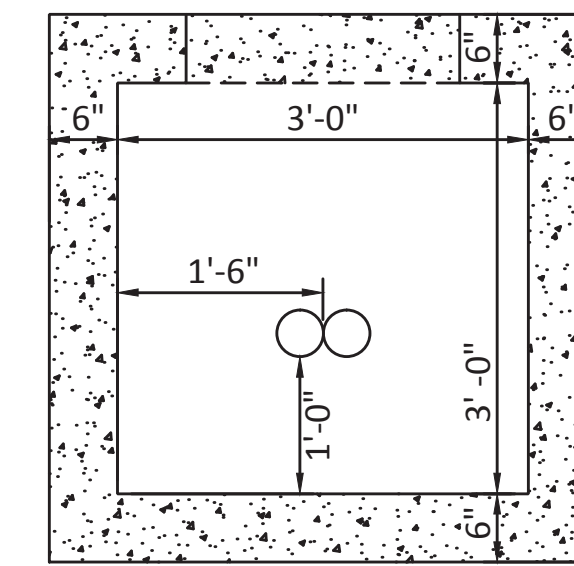


- Notes:
1. Each cable shall have its own conduit. There shall be at least two conduits per foundation.
 2. Lawn grading shall be flush as shown.

LIGHT FOUNDATION



SECTION A-A



SECTION B-B

FIBER OPTIC MANHOLE

P:\05PLOT_DRAWING_TIMES_SAM.PWS

SFILES



RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: BSF _____	
CHECKED: LAR _____	CHECKED: PRD _____	

CITY OF BLOOMINGTON	
MISCELLANEOUS UTILITY STRUCTURE DETAILS	

SCALE	BRIDGE FILE
	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	54 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY THIS SHEET
	ACER RUBRUM	RED MAPLE	2" B&B	0 EA
	CERCIS CANADENSIS	EASTERN REDBUD	1-1/4" B&B	0 EA
	CORNUS FLORIDA	FLOWERING DOGWOOD	1-1/4" B&B	0 EA
	FRAXINUS QUADRANGULATA	GREEN ASH	2" B&B	0 EA
	JUGLANS NIGRA	BLACK WALNUT	2" B&B	0 EA
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1-1/4" B&B	0 EA
	PINUS STROBUS	EASTERN WHITE PINE	2" B&B	0 EA
	QUERCUS PALUSTRIS	PIN OAK	2" B&B	0 EA
	SODDING, NURSERY			684 SY

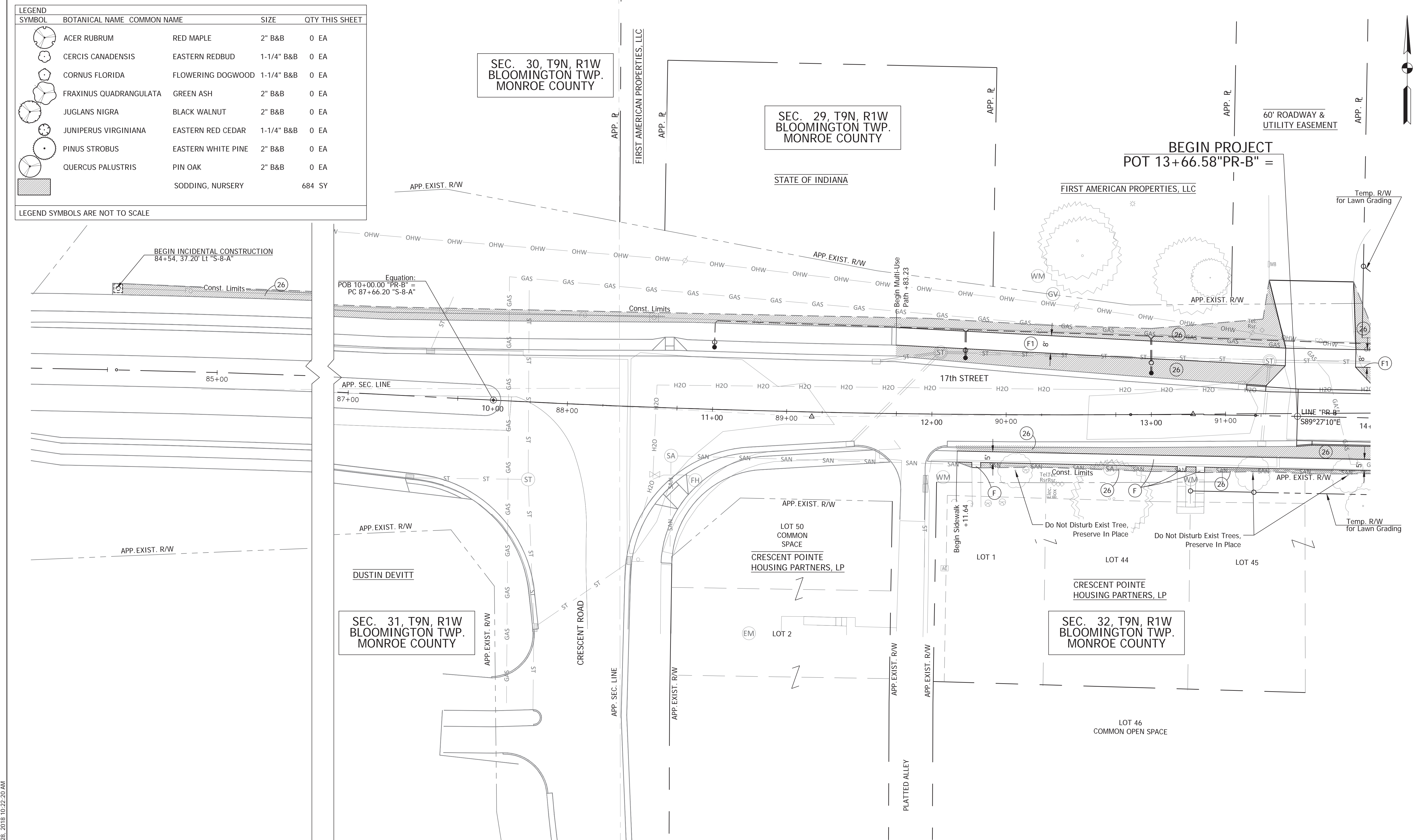
LEGEND SYMBOLS ARE NOT TO SCALE

SEC. 30, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

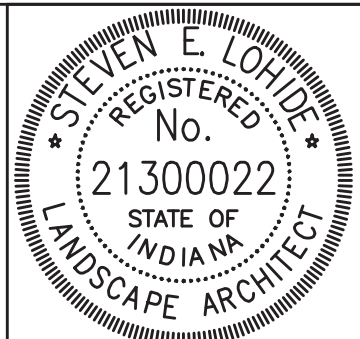
SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 31, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY



- Notes:
Sod All Disturbed Areas.
- (F) Concrete Sidewalk, See Roadway Plans
 - (F1) HMA for Sidewalk, See Roadway Plans
 - (26) Sodding, Nursery



RECOMMENDED FOR APPROVAL: *[Signature]*
DESIGN ENGINEER
12/28/2018
DATE

DESIGNED: SEL
DRAWN: JP

CHECKED: SEL
CHECKED: SEL

CITY OF BLOOMINGTON

LANDSCAPE PLAN
STA 10+00 TO STA 14+00

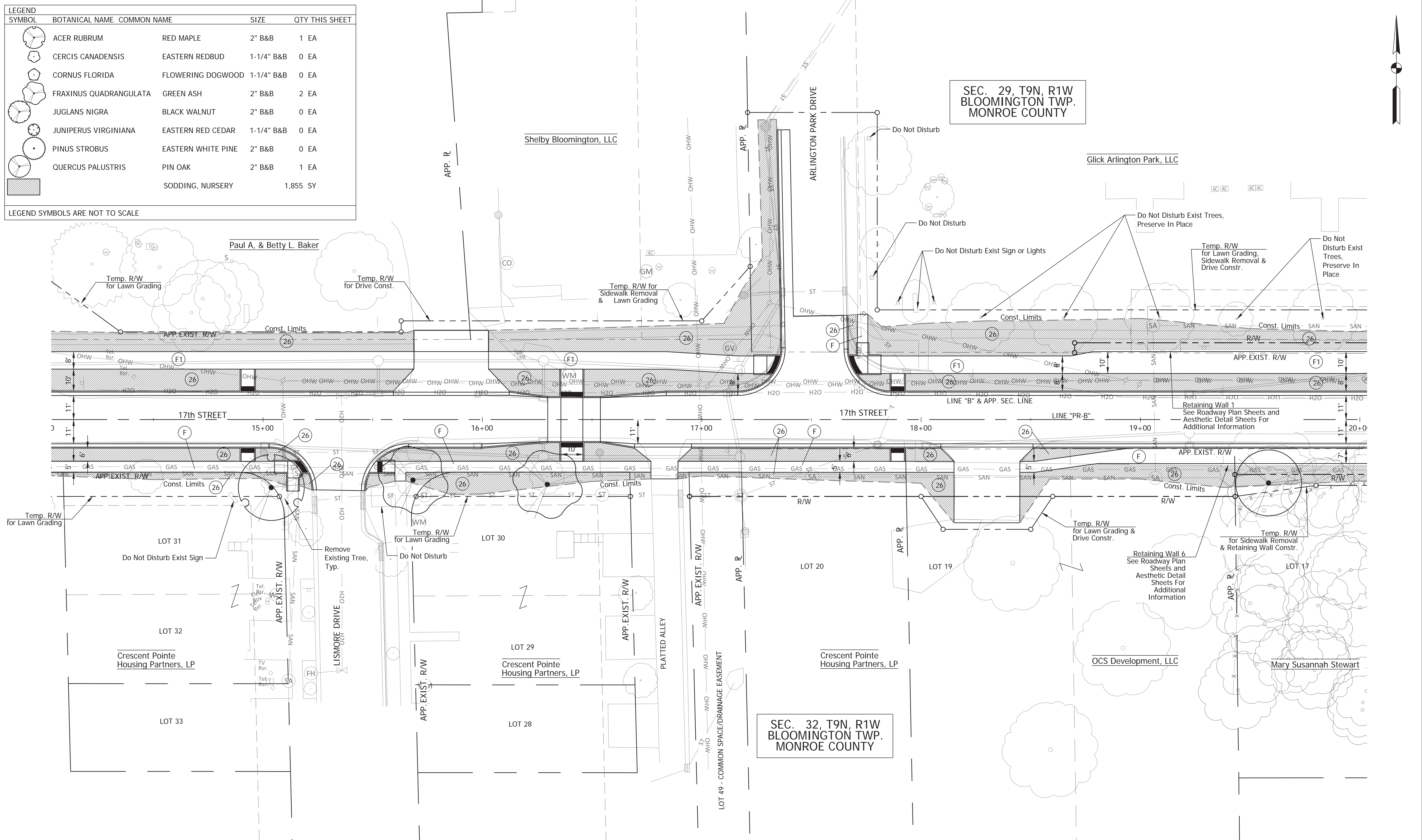
SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 55 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

PLOTTED: Friday, December 28, 2018 10:22:20 AM

FILE: 55_IS_PLAN_01.DWG

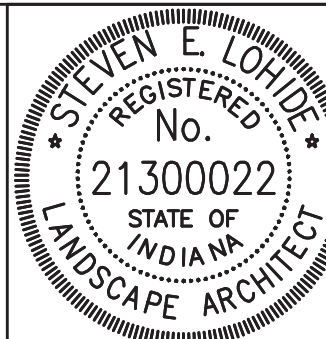
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY THIS SHEET
	ACER RUBRUM	RED MAPLE	2" B&B	1 EA
	CERCIS CANADENSIS	EASTERN REDBUD	1-1/4" B&B	0 EA
	CORNUS FLORIDA	FLOWERING DOGWOOD	1-1/4" B&B	0 EA
	FRAXINUS QUADRANGULATA	GREEN ASH	2" B&B	2 EA
	JUGLANS NIGRA	BLACK WALNUT	2" B&B	0 EA
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1-1/4" B&B	0 EA
	PINUS STROBUS	EASTERN WHITE PINE	2" B&B	0 EA
	QUERCUS PALUSTRIS	PIN OAK	2" B&B	1 EA
	SODDING, NURSERY			1,855 SY

LEGEND SYMBOLS ARE NOT TO SCALE



- (F) Concrete Sidewalk, See Roadway Plans
- (F1) HMA for Sidewalk: See Roadway Plans
- (26) Sodding, Nursery

Notes:
Sod All Disturbed Areas.



RECOMMENDED FOR APPROVAL		12/28/2018
DESIGNED: SEL	DRAWN: JP	DATE
CHECKED: SEL	CHECKED: SEL	

CITY OF BLOOMINGTON

LANDSCAPE PLAN
STA 14+00 TO STA 20+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	56 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Thursday, December 27, 2018 9:46:52 AM

FILE: 56_IS_PLAN_02.DWG

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY THIS SHEET
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	CERCIS CANADENSIS	EASTERN REDBUD	1-1/4" B&B	4 EA
	CORNUS FLORIDA	FLOWERING DOGWOOD	1-1/4" B&B	1 EA
	FRAXINUS QUADRANGULATA	GREEN ASH	2" B&B	0 EA
	JUGLANS NIGRA	BLACK WALNUT	2" B&B	1 EA
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1-1/4" B&B	2 EA
	PINUS STROBUS	EASTERN WHITE PINE	2" B&B	3 EA
	QUERCUS PALUSTRIS	PIN OAK	2" B&B	1 EA
		SODDING, NURSERY		2,000 SY

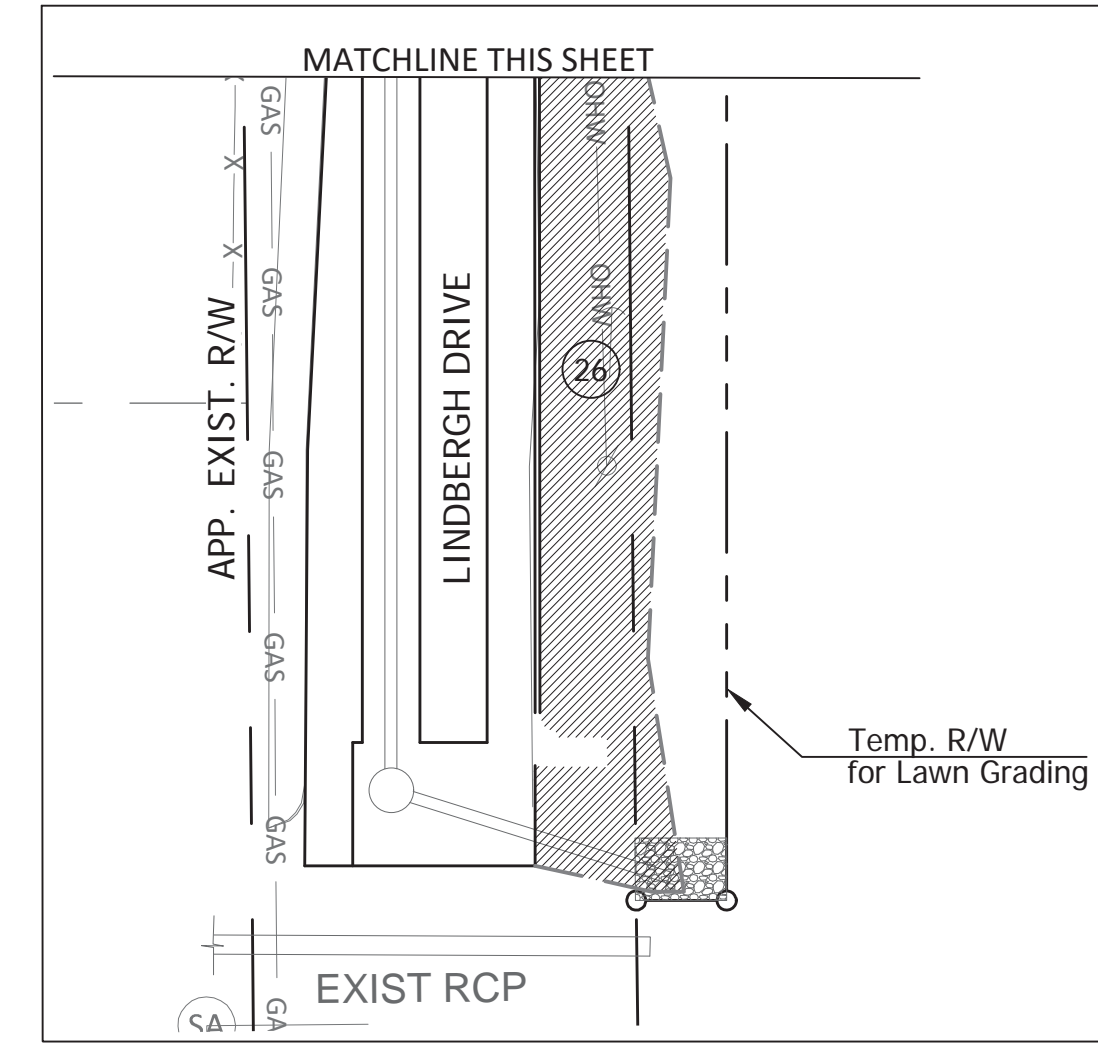
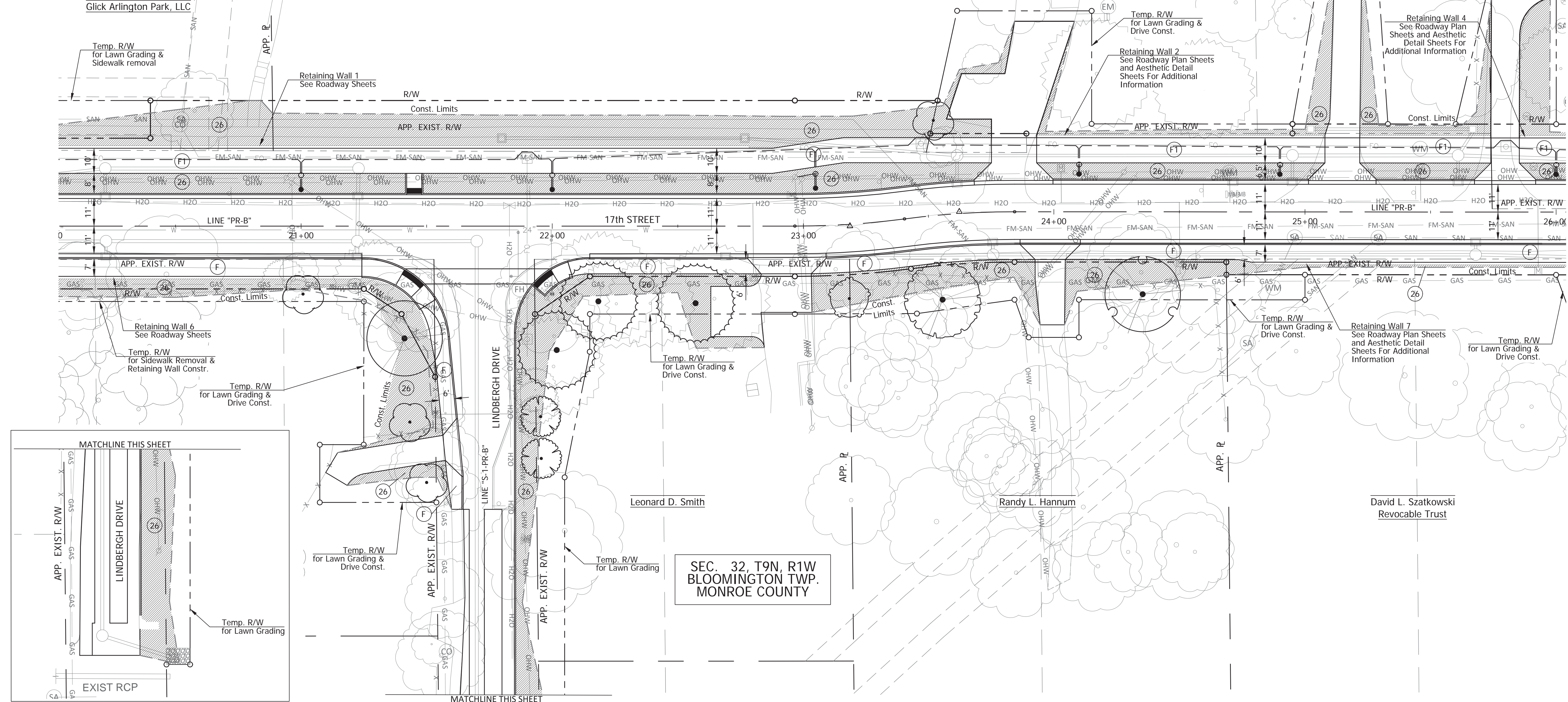
SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

Rogers Group, Inc.

Carrie G. Winkel & Marion R. Winkel

Kevin J. & Rosemary J. Treacy

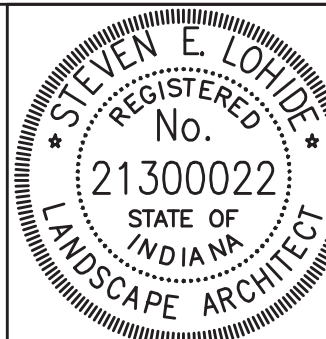
LEGEND SYMBOLS ARE NOT TO SCALE



- (F) Concrete Sidewalk: See Roadway Plans
- (F1) HMA for Sidewalk: See Roadway Plans
- (26) Sodding, Nursery

Notes:
Sod All Disturbed Areas

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY



RECOMMENDED FOR APPROVAL: *[Signature]* DESIGN ENGINEER DATE: 12/28/2018

DESIGNED: SEL DRAWN: JP

CHECKED: SEL CHECKED: SEL

CITY OF BLOOMINGTON

LANDSCAPE PLAN
STA 20+00 TO STA 26+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	57 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

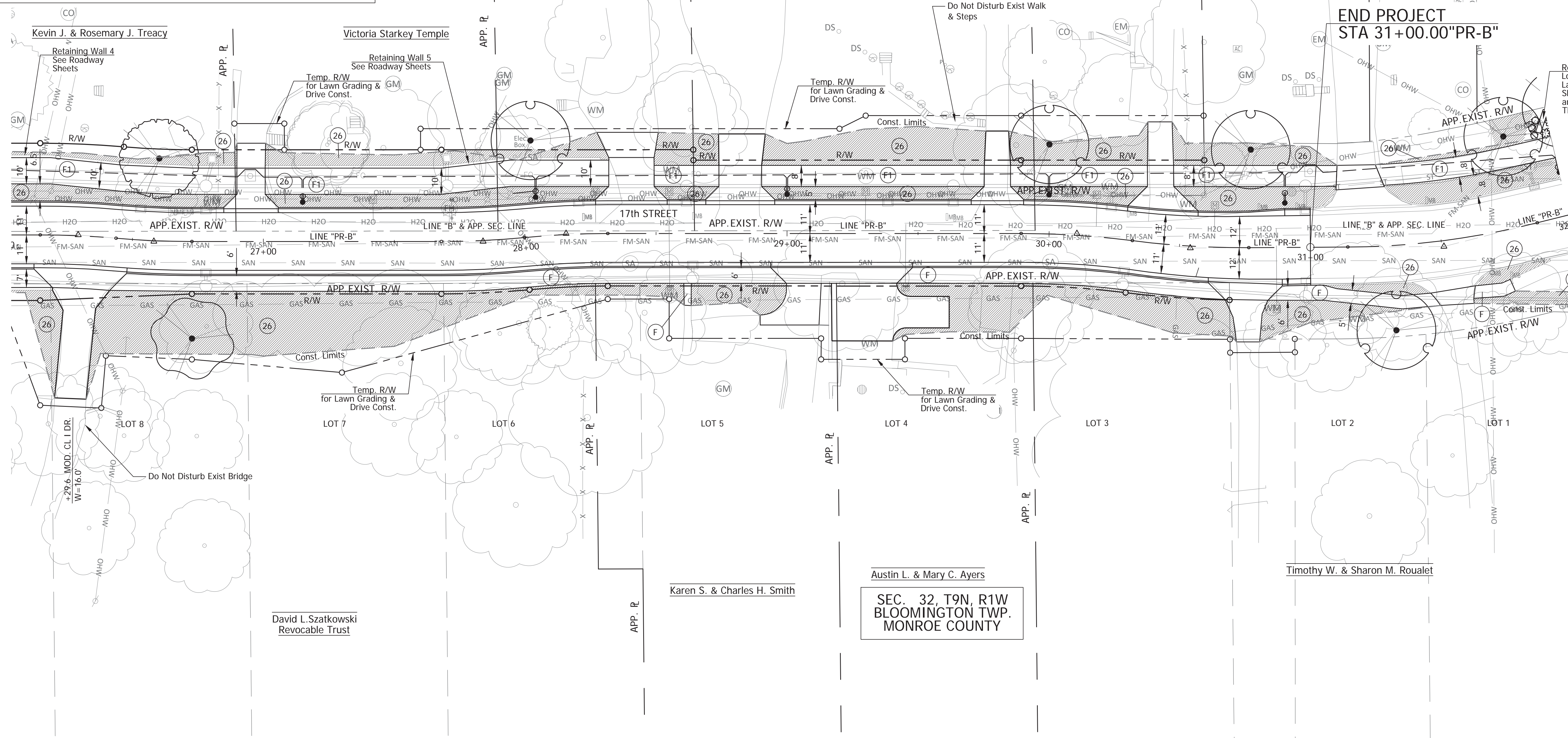
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SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY THIS SHEET
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	CERCIS CANADENSIS	EASTERN REDBUD	1-1/4" B&B	0 EA
	CORNUS FLORIDA	FLOWERING DOGWOOD	1-1/4" B&B	0 EA
	FRAXINUS QUADRANGULATA	GREEN ASH	2" B&B	1 EA
	JUGLANS NIGRA	BLACK WALNUT	2" B&B	1 EA
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1-1/4" B&B	0 EA
	PINUS STROBUS	EASTERN WHITE PINE	2" B&B	0 EA
	QUERCUS PALUSTRIS	PIN OAK	2" B&B	0 EA
	SODDING, NURSERY			1,470 SY

LEGEND SYMBOLS ARE NOT TO SCALE

SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY



PLOTTED: Thursday, December 27, 2018 9:59:29 AM

- (F) Concrete Sidewalk, See Roadway Plans
- (F1) HMA for Sidewalk: See Roadway Plans
- (26) Sodding, Nursery

Notes:
Sod All Disturbed Areas



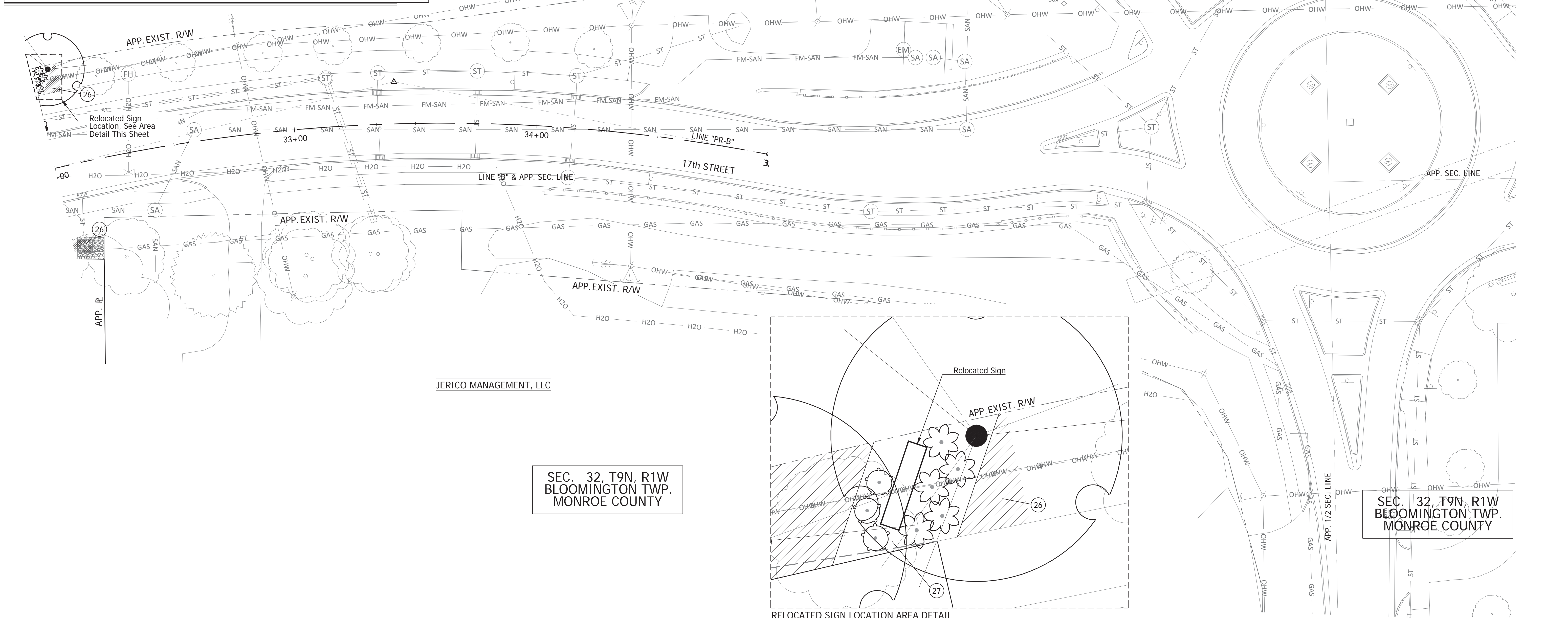
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	12/28/2018
DESIGNED: SEL	DRAWN: JP	CHECKED: SEL	CHECKED: SEL

CITY OF BLOOMINGTON
LANDSCAPE PLAN
STA 26+00 TO STA 32+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	58 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

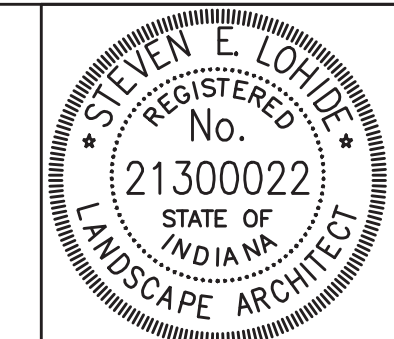
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY THIS SHEET
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	CERCIS CANADENSIS	EASTERN REDBUD	1-1/4" B&B	0 EA
	CORNUS FLORIDA	FLOWERING DOGWOOD	1-1/4" B&B	0 EA
	FRAXINUS QUADRANGULATA	GREEN ASH	2" B&B	0 EA
	JUGLANS NIGRA	BLACK WALNUT	2" B&B	0 EA
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1-1/4" B&B	0 EA
	PINUS STROBUS	EASTERN WHITE PINE	2" B&B	0 EA
	QUERCUS PALUSTRIS	PIN OAK	2" B&B	0 EA
		SODDING, NURSERY		10 SY
		SHREDDED BARK MULCH		151 SF
	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS 'HAMELN'	5 GAL	3 EA
	COTONEASTER DAMMERI 'CORAL BEAUTY'	COTTONEASTER BEARBERRY 'CORAL BEAUTY'	5 GAL	5 EA

LEGEND SYMBOLS ARE NOT TO SCALE



- 26 Sodding, Nursery
- 27 Shredded Bark Mulch Under Shrub Plantings

Notes:
Sod All Disturbed Areas

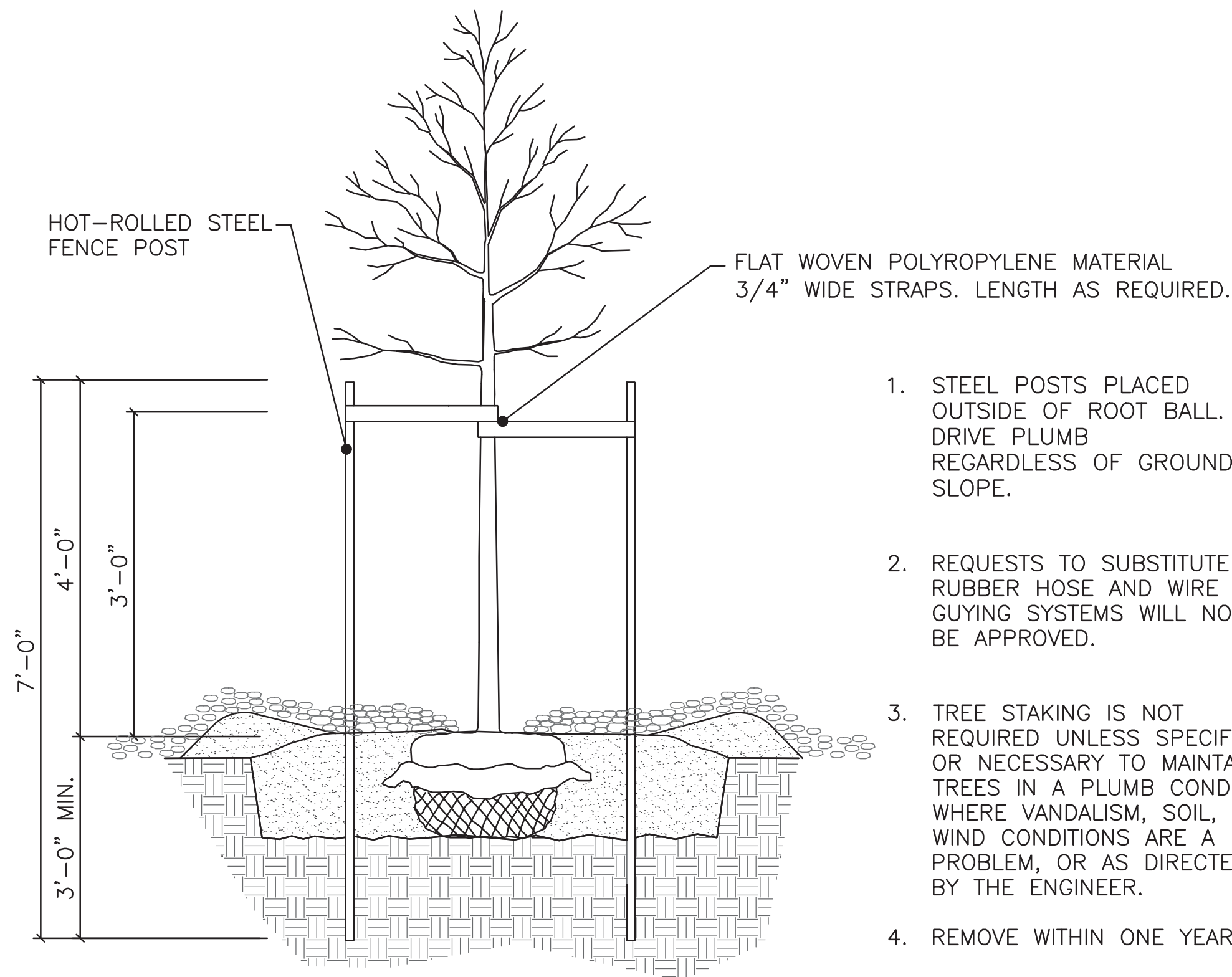


RECOMMENDED FOR APPROVAL		12/28/2018
DESIGNED: SEL	DRAWN: JP	DATE
CHECKED: SEL	CHECKED: SEL	

CITY OF BLOOMINGTON
LANDSCAPE DETAILS
STA 32+00 TO STA 35+00

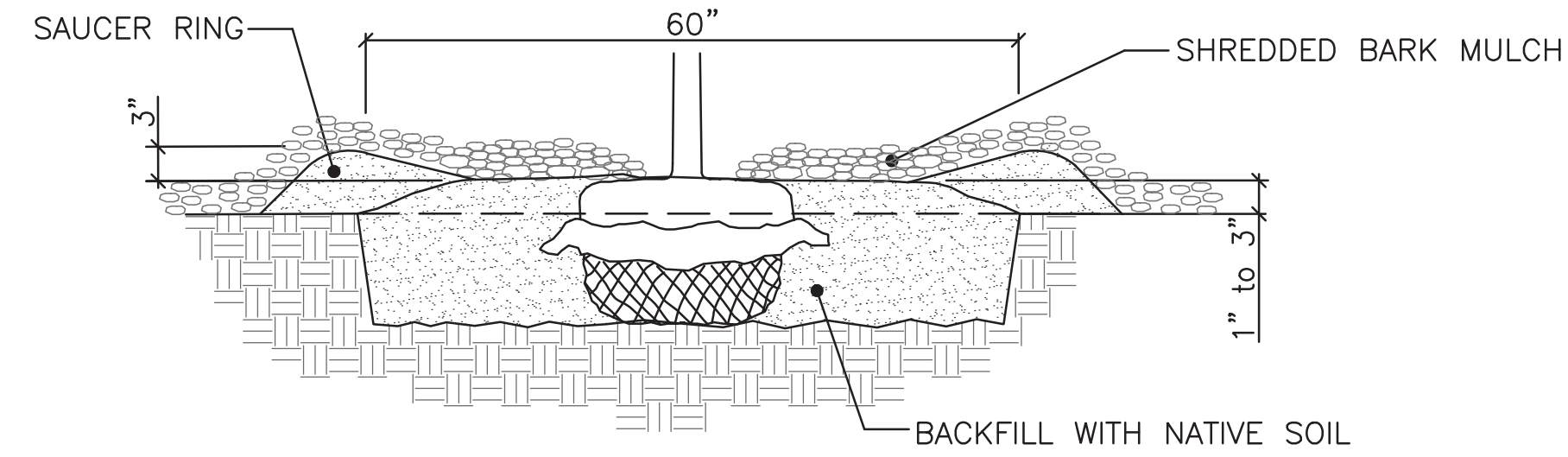
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	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 59 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

PLOTTED: Thursday, December 27, 2018 10:02:15 AM



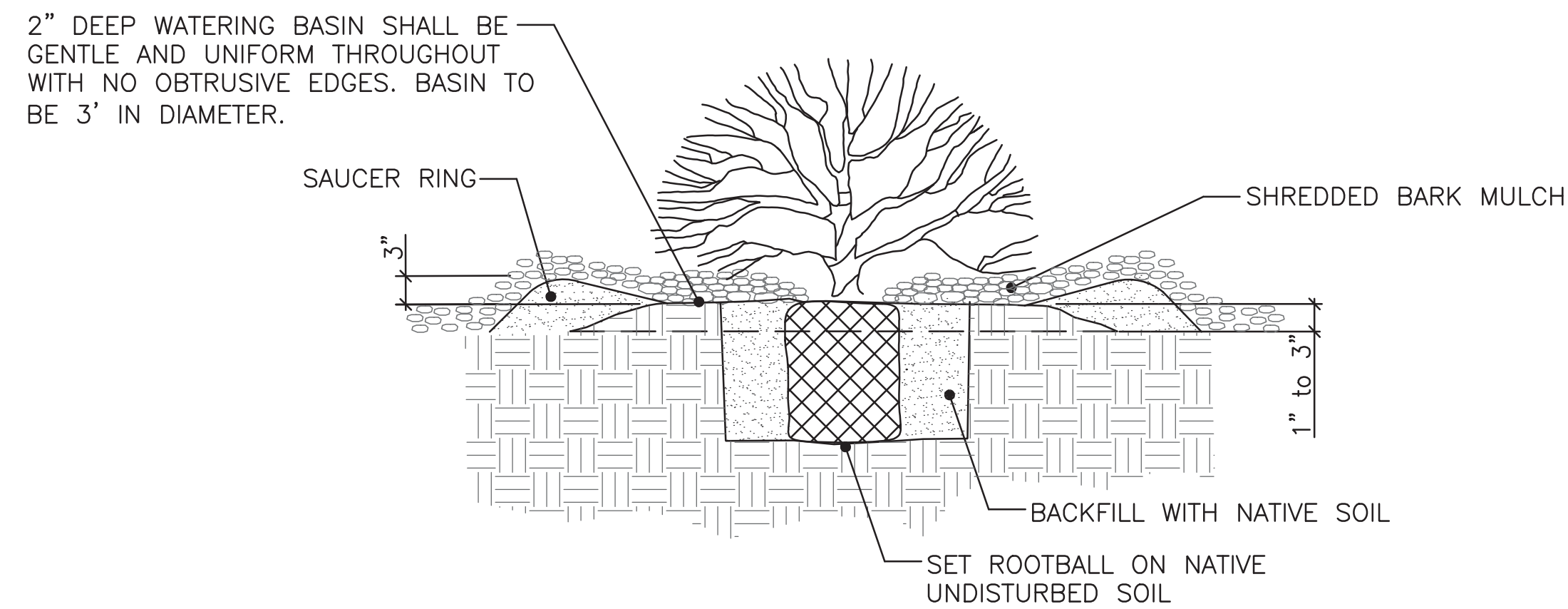
1. STEEL POSTS PLACED OUTSIDE OF ROOT BALL. DRIVE PLUMB REGARDLESS OF GROUND SLOPE.
2. REQUESTS TO SUBSTITUTE RUBBER HOSE AND WIRE GUYING SYSTEMS WILL NOT BE APPROVED.
3. TREE STAKING IS NOT REQUIRED UNLESS SPECIFIED OR NECESSARY TO MAINTAIN TREES IN A PLUMB CONDITION WHERE VANDALISM, SOIL, OR WIND CONDITIONS ARE A PROBLEM, OR AS DIRECTED BY THE ENGINEER.
4. REMOVE WITHIN ONE YEAR.

1 STAKING AND GUYING



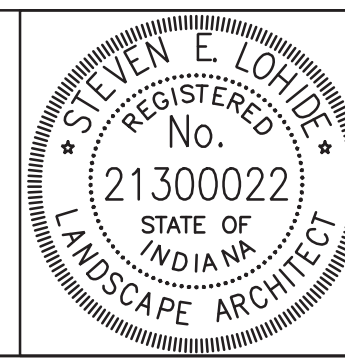
1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNEXCAVATED SUBGRADE. PLACE PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT.
6. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
7. PLUMB AND BACKFILL WITH PLANTING SOIL.
8. PROVIDE 3" DEPTH LEVEL SAUCER AROUND OUTSIDE OF PLANTING PIT TO RETAIN WATER.
9. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
10. BACK FILL VOIDS AND WATER A SECOND TIME.
11. PLACE SHREDDED BARK MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
12. SHREDDED BARK MULCH DEPTH TO BE MINIMUM 3" DEPTH.
13. PULL SHREDDED BARK MULCH BACK NO LESS THAN 3" AND NO MORE THAN 6" FROM TREES AT THE TRUNK OR MAIN STEM.
14. SUBSIDING OR DETERIORATING SHREDDED BARK MULCH IS ACCEPTABLE THROUGHOUT THE ESTABLISHED PERIOD IF THE SHREDDED BARK MULCH DEPTH IS MAINTAINED AT A MINIMUM 3" DEPTH.
15. SHREDDED BARK MULCH CONTAMINATED WITH SOIL MUST BE REMOVED AND REPLACED.

2 BALLED & BURLAPPED TREE PLANTING



3 CONTAINER PLANTING

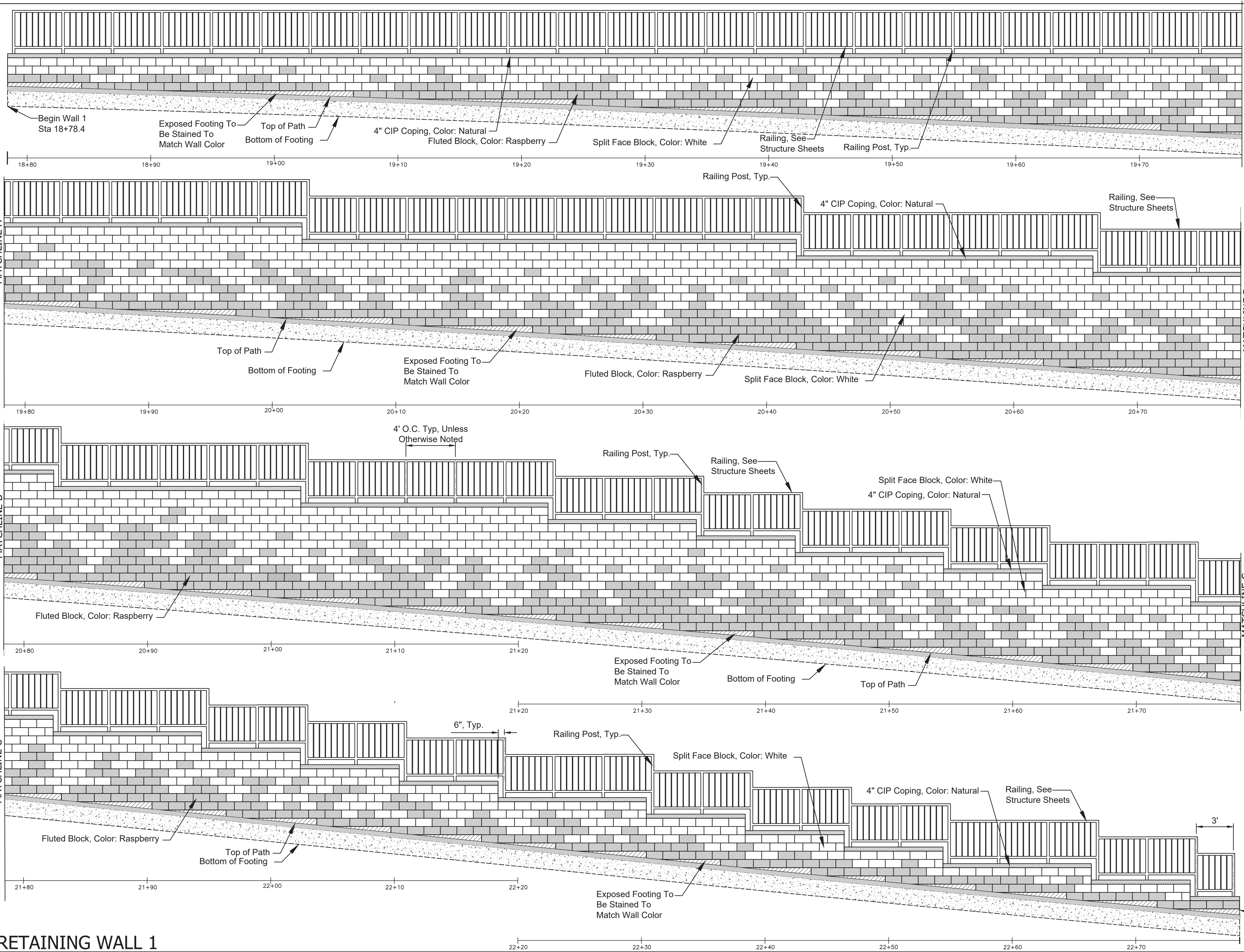
PLOTTED: Monday, December 24, 2018 9:15:32 AM



RECOMMENDED FOR APPROVAL	<i>Steven E. Loyde</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: SEL	DRAWN: JP	
CHECKED: SEL	CHECKED: SEL	

CITY OF BLOOMINGTON
LANDSCAPE DETAILS

SCALE	BRIDGE FILE
NTS	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	60 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



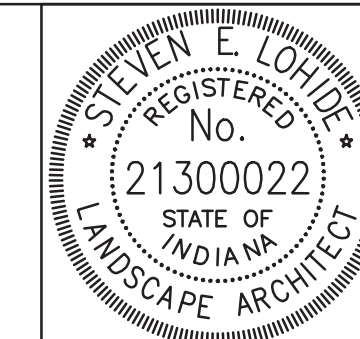
- LEGEND**
- 4" CIP COPING, COLOR: NATURAL
 - 8" X 8" X 16" SPLIT FACE BLOCK
COLOR: WHITE (MASOLITE)
 - 8" X 8" X 16" FLUTED BLOCK
COLOR: RASPBERRY (MASOLITE)
 - EXPOSED FOOTING TO BE STAINED TO MATCH BLOCK COLOR RASPBERRY

- NOTES**
1. SEE STRUCTURE SHEETS FOR DETAILS.
 2. RAILING POST SPACING TO BE 4' O.C. UNLESS OTHERWISE NOTED.
 3. RAILING HEIGHT TO BE 42" UNLESS NOTED OTHERWISE

RETAINING WALL 1

PLOTTED: Monday, December 24, 2018 9:41:39 AM

FILE: 61_LS_SHT_01.DWG

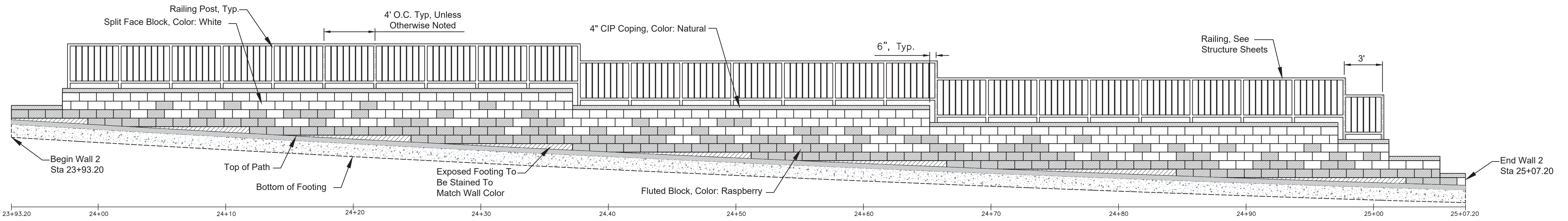


RECOMMENDED FOR APPROVAL		12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: SEL	DRAWN: JP	
CHECKED: SEL	CHECKED: SEL	

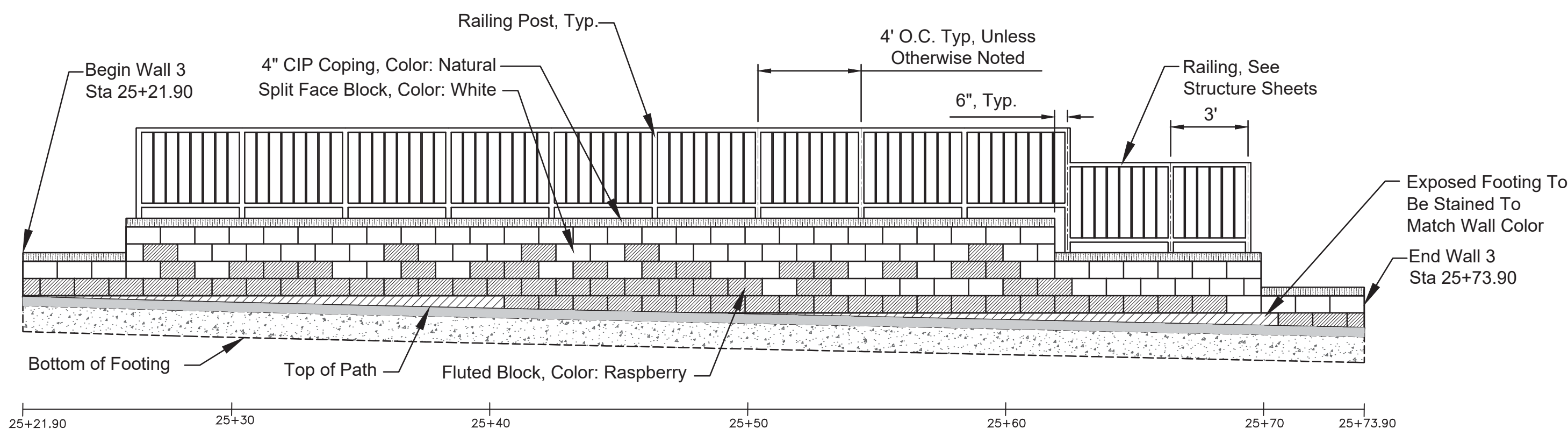
CITY OF BLOOMINGTON

RETAINING WALL AESTHETICS
RETAINING WALL 1

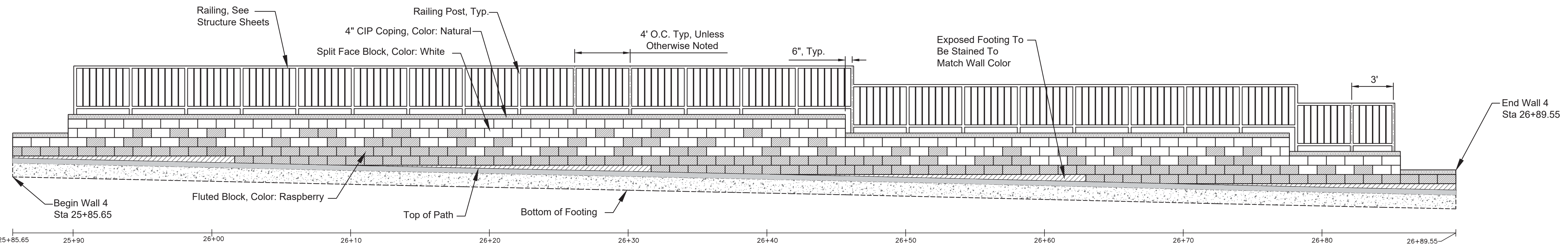
SCALE	BRIDGE FILE
1/4"=1'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	61 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



RETAINING WALL 2



RETAINING WALL 3

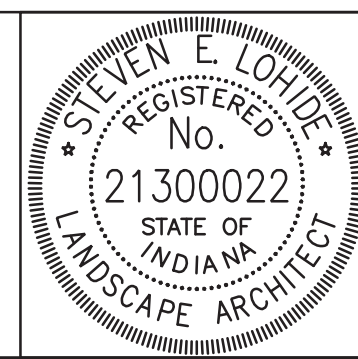


RETAINING WALL 4

- LEGEND**
- 4" CIP COPING, COLOR: NATURAL
 - 8" X 8" X 16" SPLIT FACE BLOCK COLOR: WHITE (MASOLITE)
 - 8" X 8" X 16" FLUTED BLOCK COLOR: RASPBERRY (MASOLITE)
 - EXPOSED FOOTING TO BE STAINED TO MATCH BLOCK COLOR RASPBERRY
- NOTES**
1. SEE STRUCTURE SHEETS FOR DETAILS.
 2. RAILING POST SPACING TO BE 4' O.C. UNLESS OTHERWISE NOTED.
 3. RAILING HEIGHT TO BE 42" UNLESS NOTED OTHERWISE

PLOTTED: Monday, December 24, 2018 9:43:33 AM

FILE: 62_LS_SHT_02.DWG

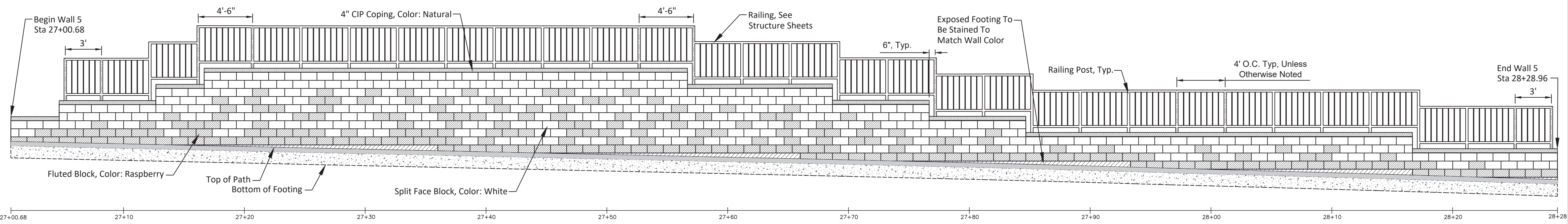


RECOMMENDED FOR APPROVAL		12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: SEL	DRAWN: JP	
CHECKED: SEL	CHECKED: SEL	

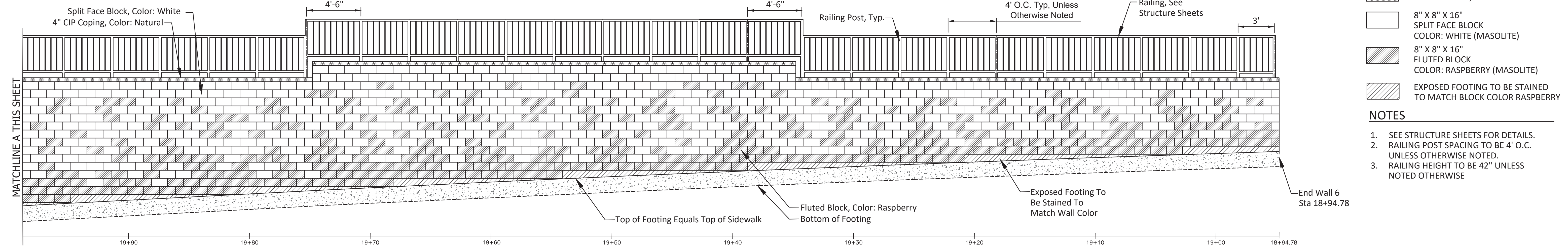
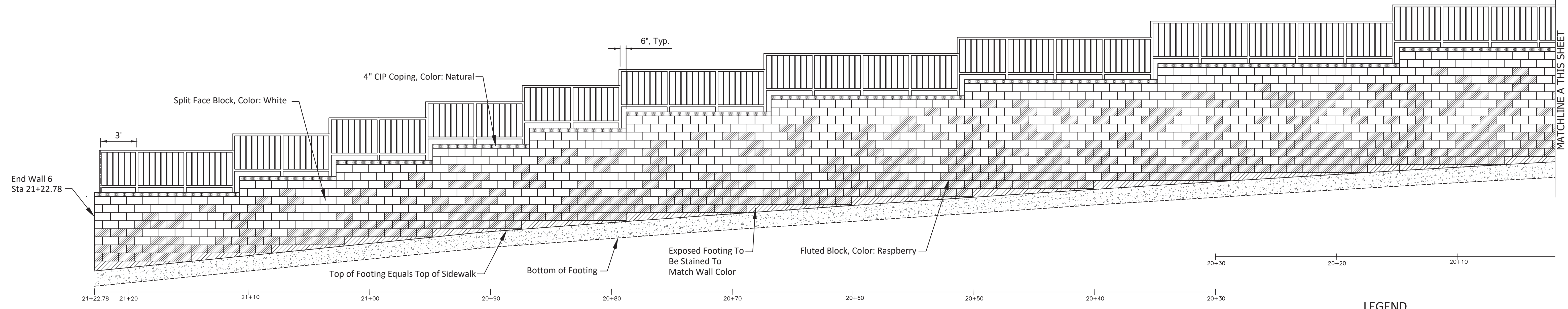
CITY OF BLOOMINGTON

RETAINING WALL AESTHETICS
RETAINING WALLS 2, 3 & 4

SCALE	BRIDGE FILE
1/4"=1'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	62 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



RETAINING WALL 5

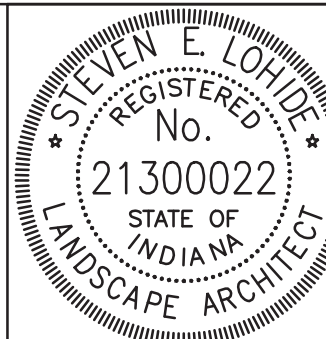


RETAINING WALL 6

- LEGEND**
- 4" CIP COPING, COLOR: NATURAL
 - 8" X 8" X 16" SPLIT FACE BLOCK COLOR: WHITE (MASOLITE)
 - 8" X 8" X 16" FLUTED BLOCK COLOR: RASPBERRY (MASOLITE)
 - EXPOSED FOOTING TO BE STAINED TO MATCH BLOCK COLOR RASPBERRY
- NOTES**
1. SEE STRUCTURE SHEETS FOR DETAILS.
 2. RAILING POST SPACING TO BE 4' O.C. UNLESS OTHERWISE NOTED.
 3. RAILING HEIGHT TO BE 42" UNLESS NOTED OTHERWISE

PLOTTED: Monday, December 24, 2018 9:46:56 AM

FILE: 63_LS_SHT_03.DWG






RECOMMENDED FOR APPROVAL		12/28/2018
DESIGNED: SEL	DRAWN: JP	DATE
CHECKED: SEL	CHECKED: SEL	

CITY OF BLOOMINGTON

RETAINING WALL AESTHETICS
RETAINING WALLS 5 & 6

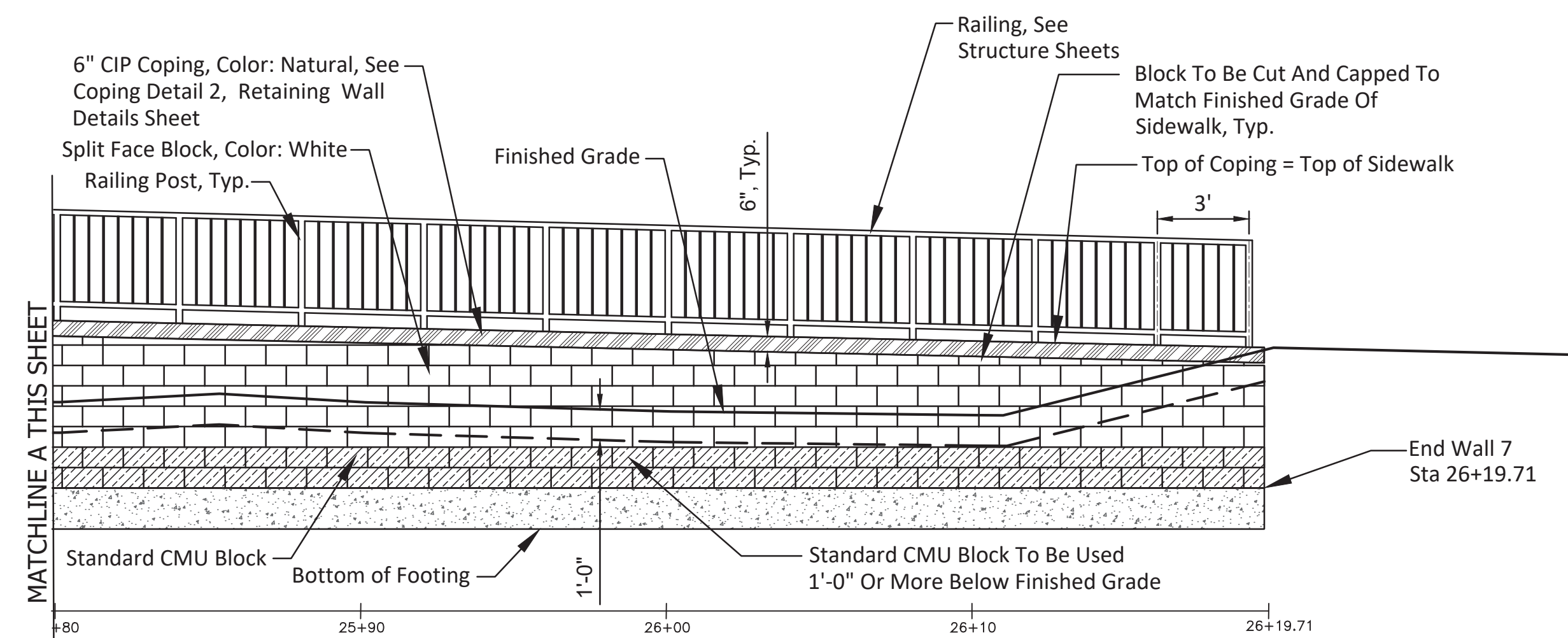
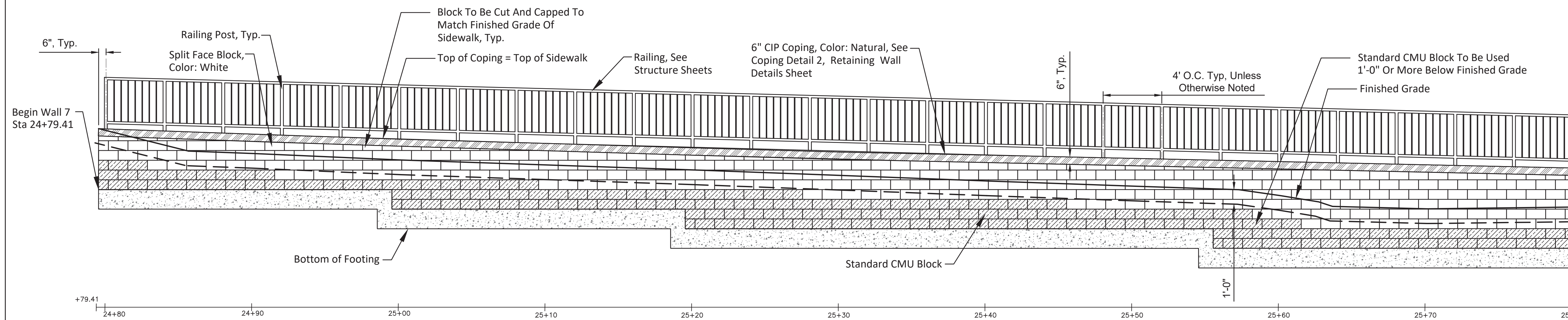
SCALE	BRIDGE FILE
1/4"=1'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	63 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

LEGEND

-  6" CIP COPING, COLOR: NATURAL*
-  8" X 8" X 16" SPLIT FACE BLOCK
COLOR: WHITE (MASOLITE)
-  8" X 8" X 16" STANDARD BLOCK

NOTES

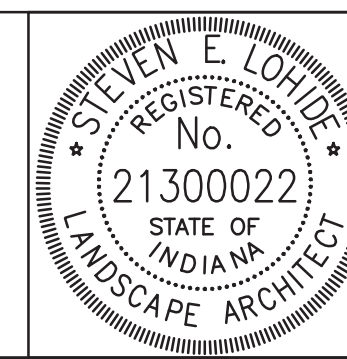
1. SEE STRUCTURE SHEETS FOR DETAILS.
2. RAILING POST SPACING TO BE 4' O.C. UNLESS OTHERWISE NOTED.
3. RAILING HEIGHT TO BE 42" UNLESS NOTED OTHERWISE




RETAINING WALL 7

PLOTTED: Monday, December 24, 2018 9:48:27 AM

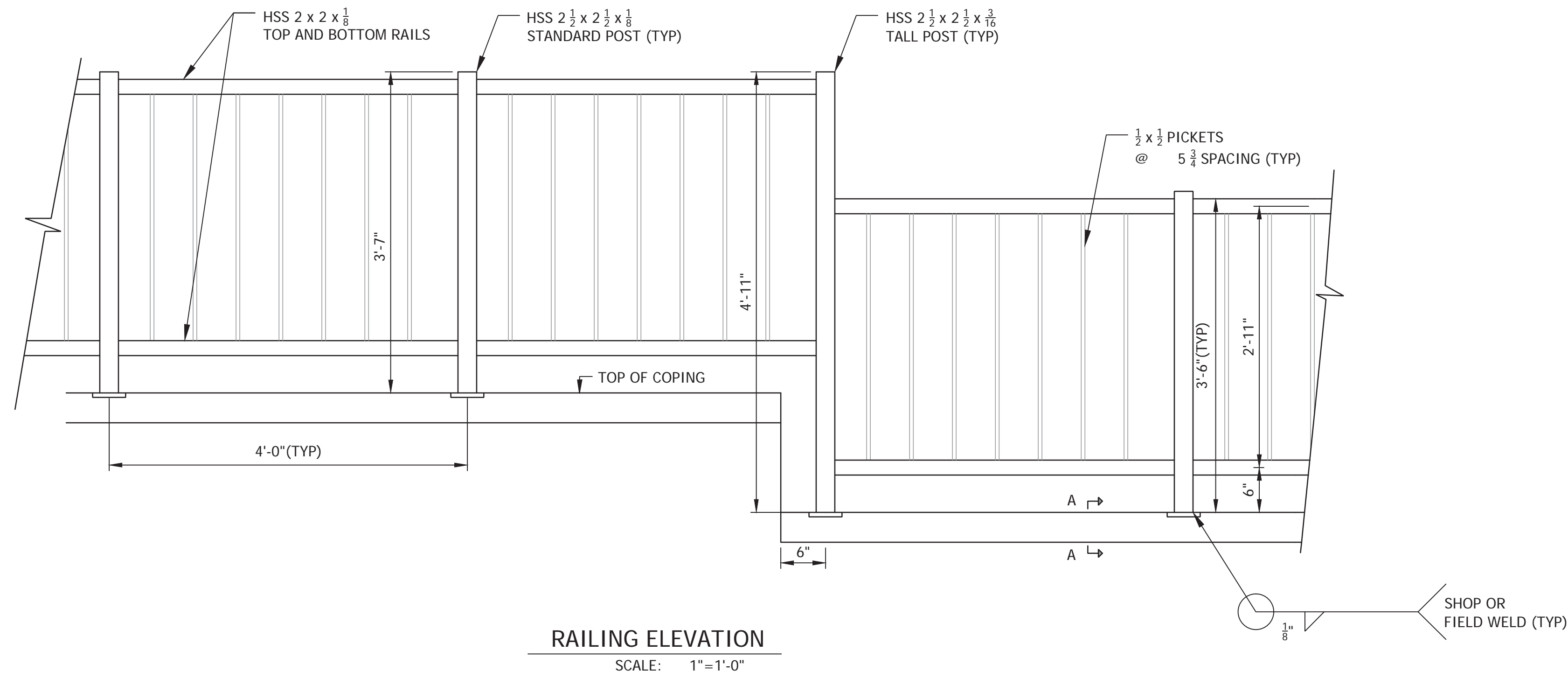
FILE: 64_LS_SHT_04.DWG



RECOMMENDED FOR APPROVAL		12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: SEL	DRAWN: JP	
CHECKED: SEL	CHECKED: SEL	

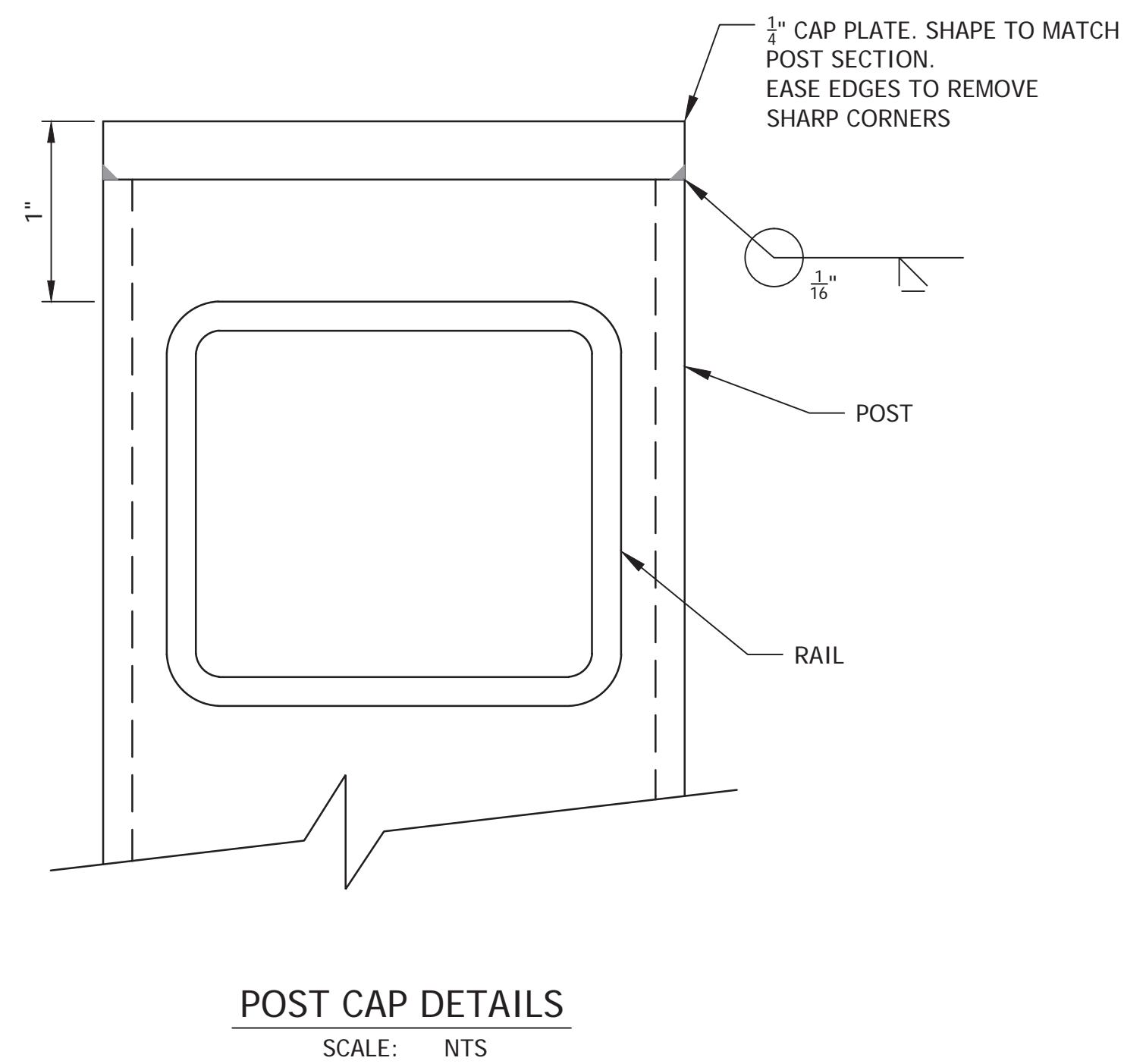
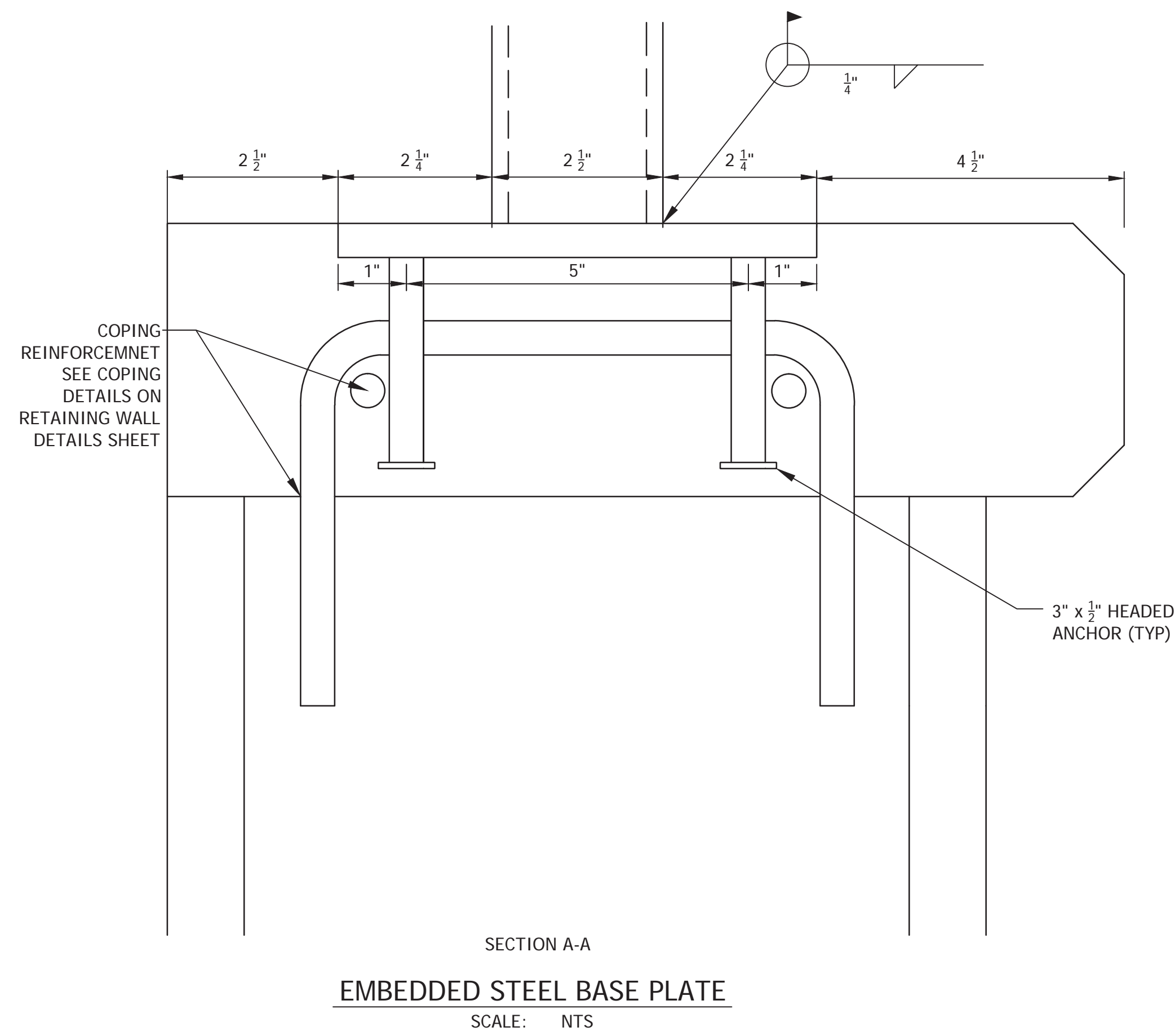
CITY OF BLOOMINGTON	
RETAINING WALL AESTHETICS	
RETAINING WALL 7	

SCALE	BRIDGE FILE
1/4"=1'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	64 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



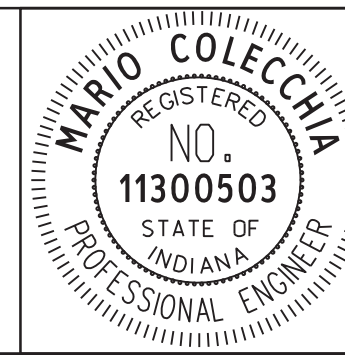
NOTES:

1. GENERAL
 - 1.1 THE CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
 - 1.2 DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES, UNLESS NOTED.
2. DESIGN SPECIFICATIONS
 - 2.1 2012 INTERNATIONAL BUILDING CODE (IBC)
 - 2.2 AMERICAN CONCRETE INSTITUTE (ACI) 318-11
 - 2.3 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360-10
 - 2.4 AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS 7TH EDITION
 - 2.5 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS) 402-11
 - 2.5 SPECIFICATION FOR MASONRY STRUCTURES (TMS) 602-11
3. CONSTRUCTION SPECIFICATION
 - 3.1 ALL CONSTRUCTION SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE.
4. REINFORCED CONCRETE
 - 4.1 CEMENT SHALL BE ASTM C 150 TYPE I OR II, OR EQUIVALENT. THE MAXIMUM WATER CEMENTITIOUS RATIO SHALL BE 0.45.
THE CONCRETE SHALL HAVE TOTAL ENTRAINED AIR OF 6%, +/- 1.5%. MINIMUM COMPRESSION STRENGTH SHALL BE 4000 PSI AT 28 DAYS.
 - 4.2 DEFORMED REINFORCING BARS SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A615.
 - 4.3 ALL REINFORCING STEEL SHALL HAVE 2 INCH CLEAR COVER UNLESS NOTED OTHERWISE.
 - 4.4 CHAMFER ALL EXPOSED CORNERS 3/4 INCH UNLESS NOTED OTHERWISE.
 - 4.5 TOP SURFACE TO HAVE FLOAT FINISH OR LIGHT BROOM FINISH.
5. STEEL
 - 5.1 STEEL ELEMENTS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 HOLLOW STRUCTURAL SECTIONS.... ASTM A500 GR. B, Fy = 46 KSI
 PLATES.... ASTM A36, Fy = 36 KSI
 HEADED ANCHORS.... ASTM A108, Fu = 55 KSI
 WELD ELECTRODES.... E70XX
6. CONCRETE MASONRY
 - 6.1 CONCRETE MASONRY UNIT (CMU) COMPRESSIVE STRENGTH (f'm) SHALL BE 1500 PSI AT 28 DAYS.
 - 6.2 MORTAR SHALL BE TYPE M OR S.
 - 6.2 DEFORMED REINFORCING BARS SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A615.
 - 6.3 JOINT REINFORCEMENT SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A951.
 - 6.4 CMU CELLS SHALL BE FULLY GROUTED.



PLOTTED: Friday, December 21, 2018 3:37:16 PM

FILE: RAILING DETAILS.DWG



RECOMMENDED FOR APPROVAL	<i>Mario Coleccchia</i>	DESIGN ENGINEER	12/21/18	DATE
DESIGNED: MC	DRAWN: VY	CHECKED: VY	CHECKED: MC	

CITY OF BLOOMINGTON	
RAILING DETAILS	

SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	65 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



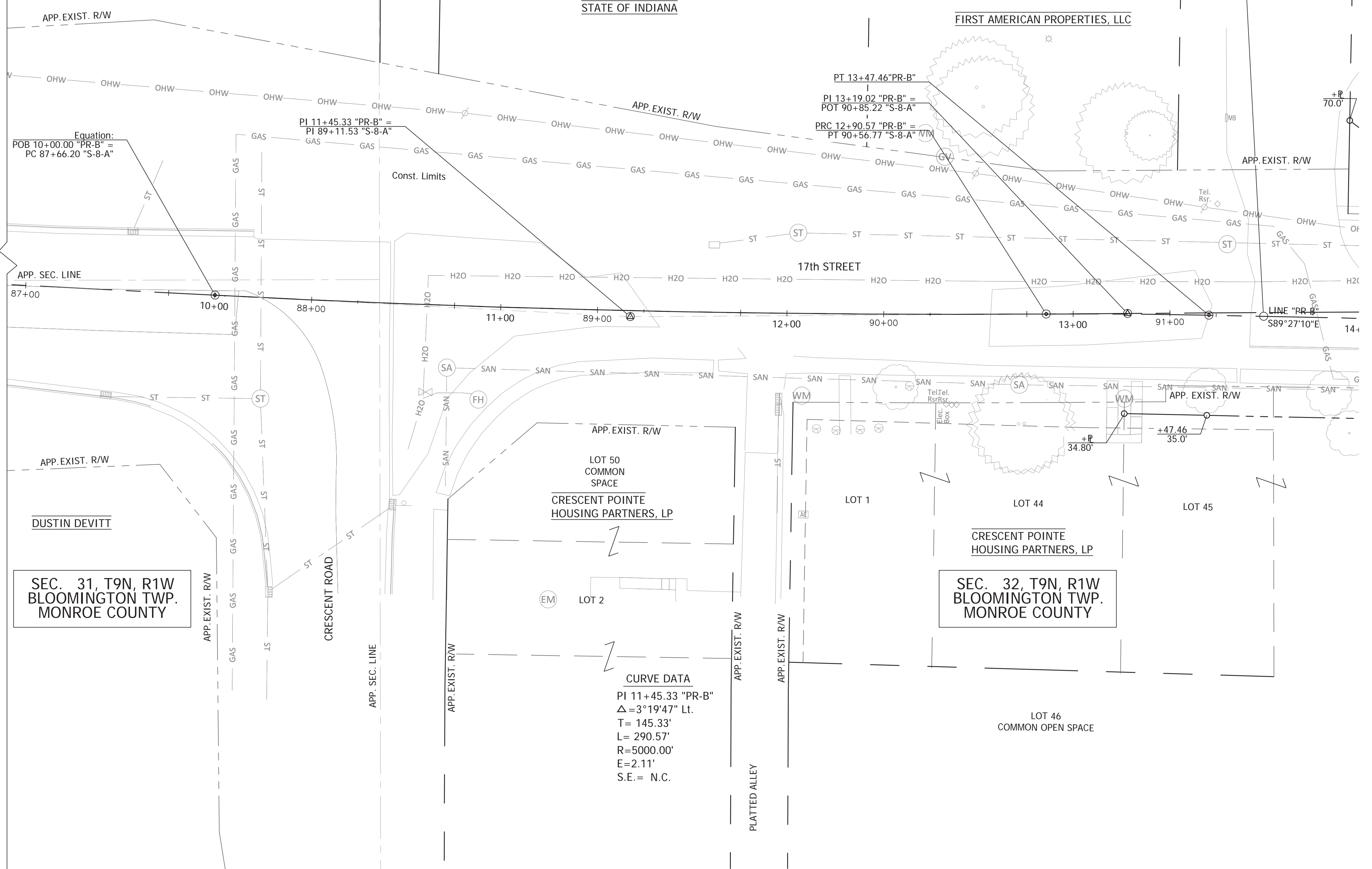
SEC. 30, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

60' ROADWAY &
UTILITY EASEMENT

BEGIN PROJECT
POT 13+66.58"PR-B" =

CURVE DATA
PI 13+19.02 "PR-B"
 $\Delta = 1^{\circ}34'13"$ Rt.
T = 28.45'
L = 56.89'
R = 2075.62'
E = 0.20'
S.E. = N.C.



BEGIN INCIDENTAL CONSTRUCTION
84+54, 37.20' Lt "S-8-A"

Equation:
POB 10+00.00 "PR-B" =
PC 87+66.20 "S-8-A"

PI 11+45.33 "PR-B" =
PI 89+11.53 "S-8-A"

PT 13+47.46"PR-B"
PI 13+19.02 "PR-B" =
POT 90+85.22 "S-8-A"
PRC 12+90.57 "PR-B" =
PT 90+56.77 "S-8-A" /VTM

PC 84+54.14 "S-8-A"

LINE "PR-B"
S89°27'10"E

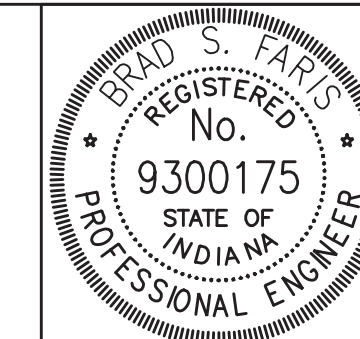
SEC. 31, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

CURVE DATA
PI 11+45.33 "PR-B"
 $\Delta = 3^{\circ}19'47"$ Lt.
T = 145.33'
L = 290.57'
R = 5000.00'
E = 2.11'
S.E. = N.C.

PLOTTED: Friday, December 28, 2018 11:47:47 AM

FILE: RD_TREEREMOVAL_01.DWG



RECOMMENDED FOR APPROVAL	<i>Brad S. Farris</i>	12/28/2018
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

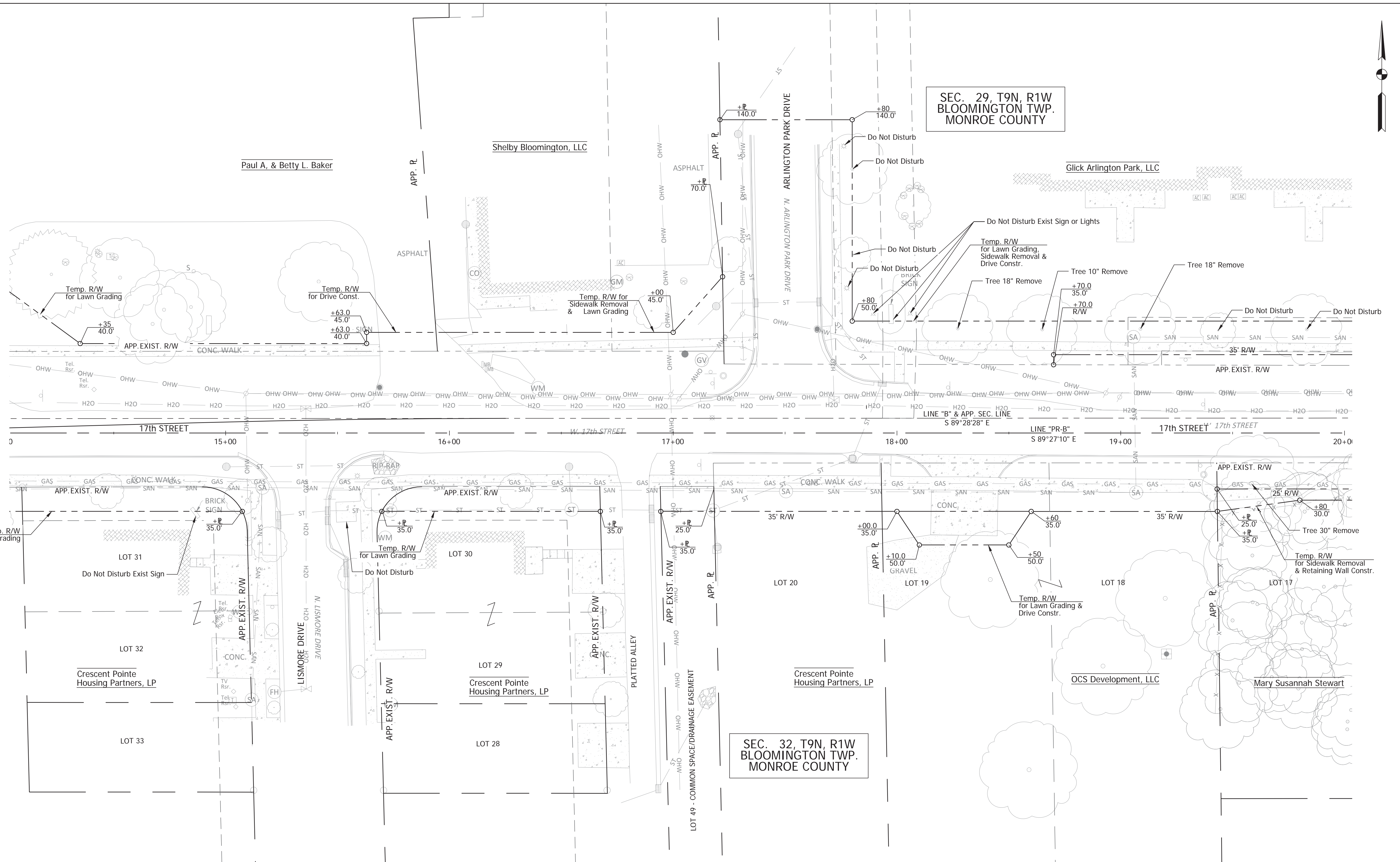
CITY OF BLOOMINGTON

TREE REMOVAL PLAN
STA 10+00 TO STA 14+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	66 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY



SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

PLOTTED: Thursday, January 03, 2019 2:46:23 PM

FILE: RD_TREEREMOVAL_02.DWG

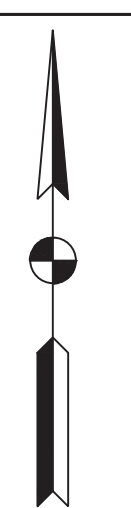


RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: LAR	CHECKED: BSF	

CITY OF BLOOMINGTON

TREE REMOVAL PLAN
STA 14+00 TO STA 20+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	67 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

CURVE DATA
PI 23+18.53 "PR-B"
 $\Delta = 7^{\circ}29'12''$ Lt.
T = 21.92'
L = 43.77'
R = 335.00'
E = 0.72'
S.E. = N.C.

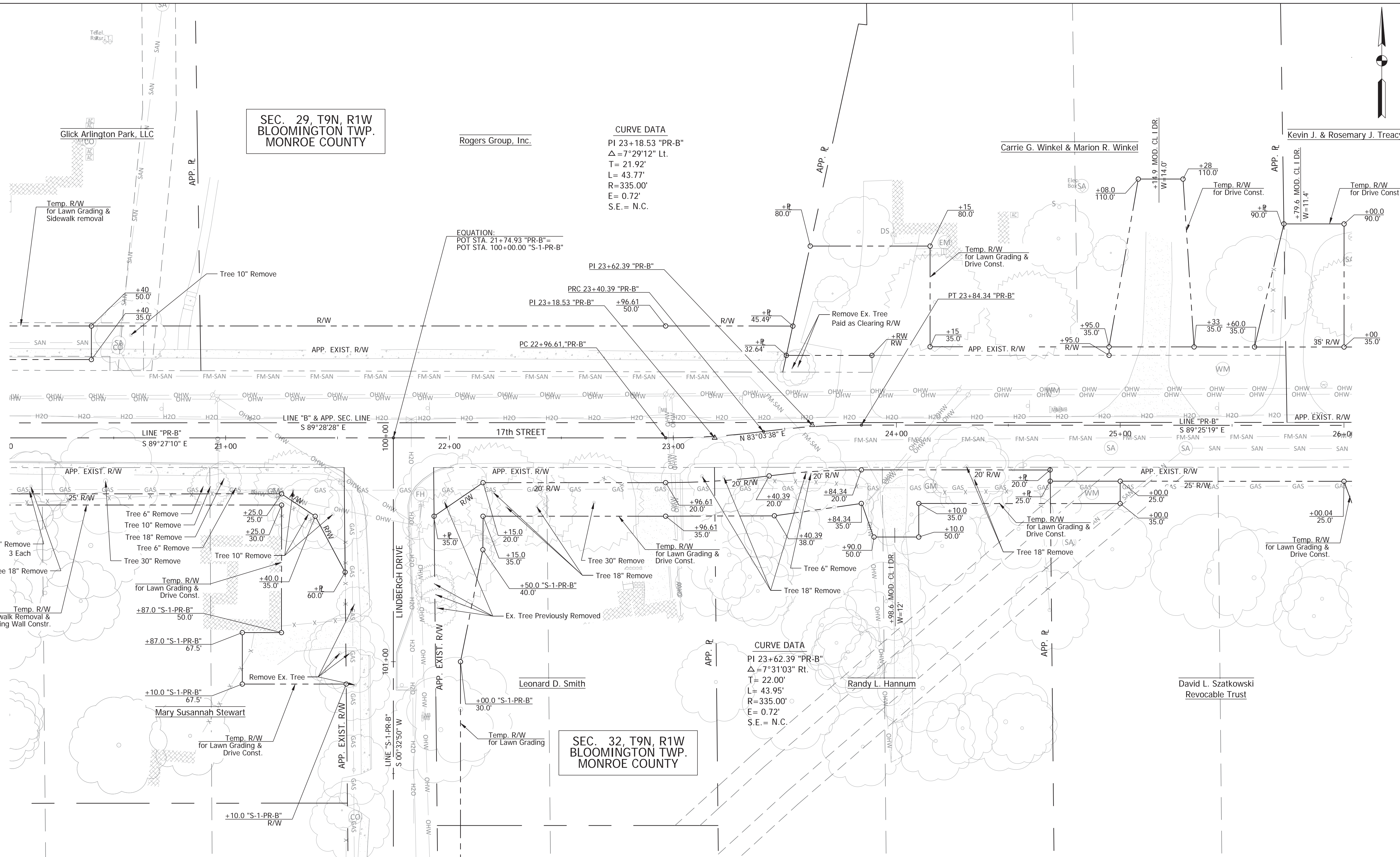
Rogers Group, Inc.

Carrie G. Winkel & Marion R. Winkel

Kevin J. & Rosemary J. Treacy

EQUATION:
POT STA. 21+74.93 "PR-B" =
POT STA. 100+00.00 "S-1-PR-B"

PI 23+62.39 "PR-B"
PRC 23+40.39 "PR-B"
PI 23+18.53 "PR-B" +96.61 50.0'
PC 22+96.61 "PR-B"

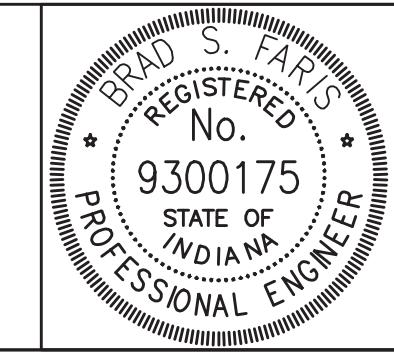


CURVE DATA
PI 23+62.39 "PR-B"
 $\Delta = 7^{\circ}31'03''$ Rt.
T = 22.00'
L = 43.95'
R = 335.00'
E = 0.72'
S.E. = N.C.

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

PLOTTED: Thursday, January 03, 2019 2:49:23 PM

FILE: RD_TREEREMOVAL_03.DWG



RECOMMENDED FOR APPROVAL	<i>Brad S. Farris</i>	12/28/2018
DESIGNED:	BSF	DRAWN: BSF
CHECKED:	BSF	CHECKED: LAR

CITY OF BLOOMINGTON	
TREE REMOVAL PLAN STA 20+00 TO STA 26+00	

SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 68 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION



SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

CURVE DATA

PI 26+58.22 "PR-B"
Δ=4°57'32" Lt.
T= 14.51'
L= 28.99'
R=335.00'
E= 0.31'
S.E.= N.C.

CURVE DATA

PI 27+83.86 "PR-B"
Δ=5°26'16" Lt.
T= 15.91'
L= 31.79'
R=335.00'
E= 0.38'
S.E.= N.C.

CURVE DATA

PI 30+54.20 "PR-B"
Δ=7°37'34" Lt.
T= 22.33'
L= 44.59'
R=335.00'
E= 0.74'
S.E.= N.C.

CURVE DATA

PI 31+50.96 "PR-B"
Δ=13°57'13" Lt.
T= 36.71'
L= 73.06'
R=300.00'
E= 2.24'
S.E.= N.C.

CURVE DATA

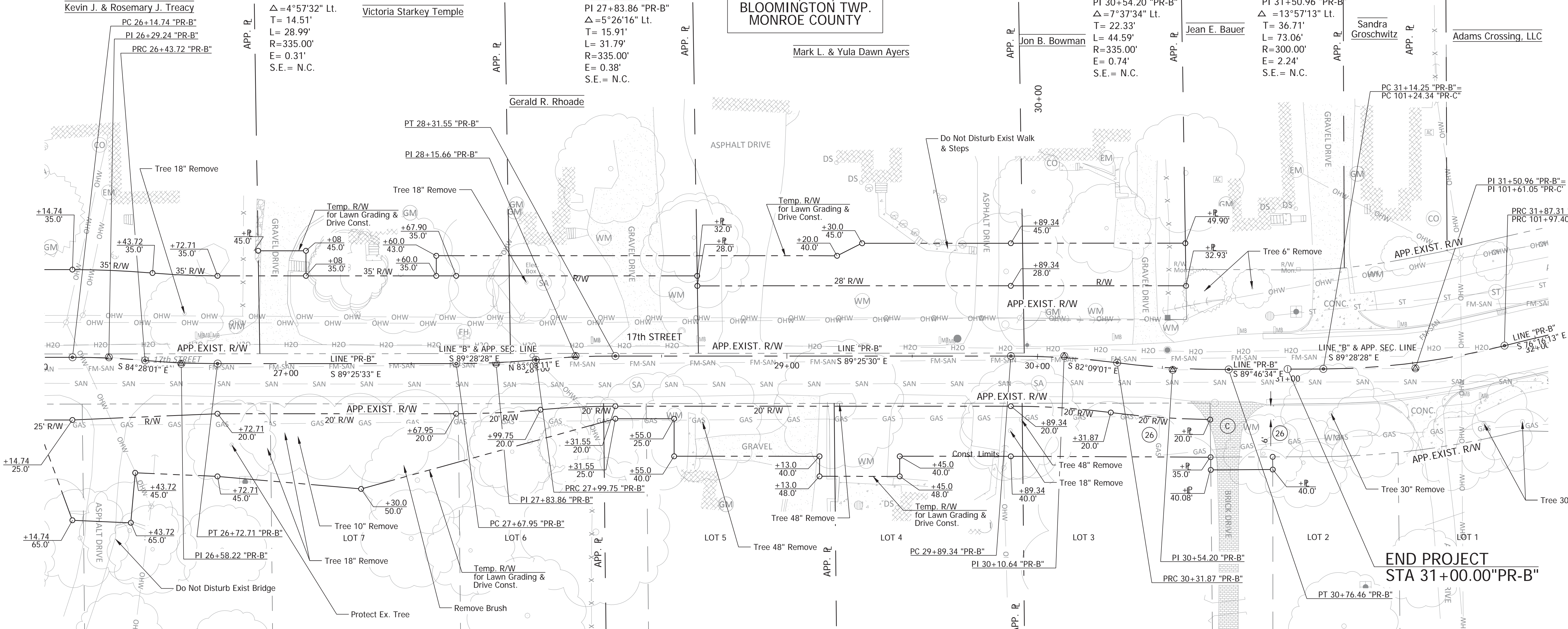
PI 26+29.24 "PR-B"
Δ=4°57'18" Rt.
T= 14.50'
L= 28.97'
R=335.00'
E= 0.31'
S.E.= N.C.

CURVE DATA

PI 28+15.66 "PR-B"
Δ=5°26'19" Rt.
T= 15.91'
L= 31.80'
R=335.00'
E= 0.38'
S.E.= N.C.

CURVE DATA

PI 30+10.64 "PR-B"
Δ=7°16'30" Rt.
T= 21.30'
L= 42.53'
R=335.00'
E= 0.68'
S.E.= N.C.



END PROJECT
STA 31+00.00 "PR-B"



RECOMMENDED FOR APPROVAL
Brad S. Fain
DESIGN ENGINEER 12/28/2018 DATE
DESIGNED: BSF DRAWN: BSF
CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON
TREE REMOVAL PLAN
STA 26+00 TO STA 32+00

SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 69 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

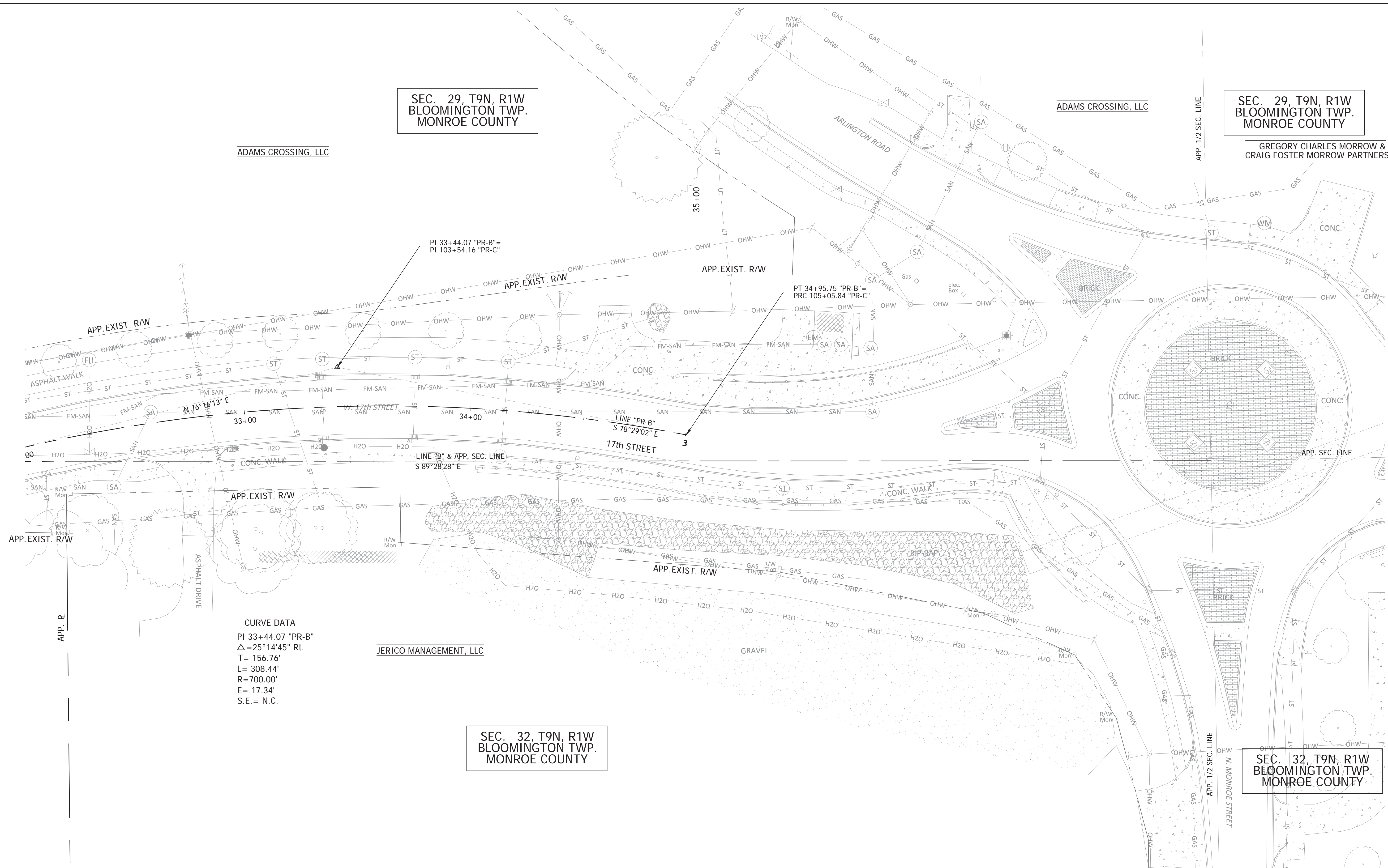


SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

ADAMS CROSSING, LLC

GREGORY CHARLES MORROW &
CRAIG FOSTER MORROW PARTNERSHIP



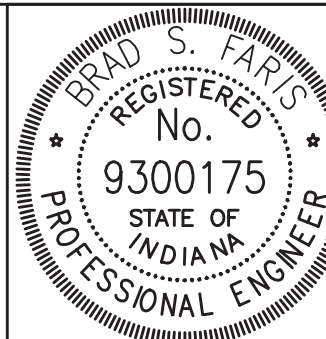
CURVE DATA
PI 33+44.07 "PR-B"
Δ=25°14'45" Rt.
T= 156.76'
L= 308.44'
R=700.00'
E= 17.34'
S.E.= N.C.

JERICO MANAGEMENT, LLC

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

FILE: RD_TREEREMOVAL_05.DWG
PLOTTED: Friday, December 28, 2018 12:46:17 PM



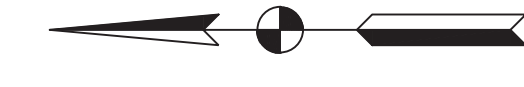
RECOMMENDED FOR APPROVAL
Brad S. Farris
DESIGN ENGINEER
12/28/2018
DATE

DESIGNED: BSF
DRAWN: BSF
CHECKED: BSF
CHECKED: LAR

CITY OF BLOOMINGTON
TREE REMOVAL PLAN
STA 32+00 TO STA 35+00

SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 70 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

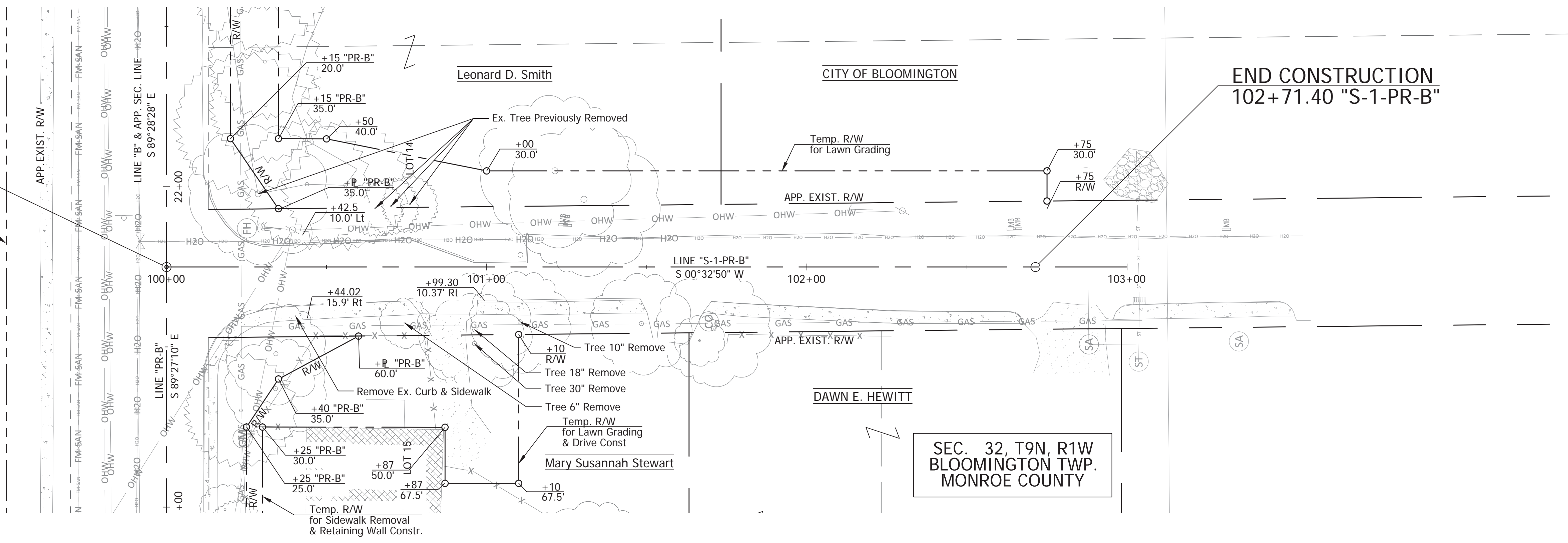


SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

Equation:
POT 21+74.93 "PR-B" =
POB 100+00.00 "S-1-PR-B"

Temp. R/W
for Sidewalk Removal
& Lawn Grading

Rogers Group, Inc.



END CONSTRUCTION
102+71.40 "S-1-PR-B"

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

PLOTTED: Friday, December 28, 2018 12:52:53 PM

FILE: RD_TREEREMOVAL_06.DWG



RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/2018
DESIGNED:	BSF	DRAWN: BSF
CHECKED:	BSF	CHECKED: LAR

CITY OF BLOOMINGTON	
TREE REMOVAL PLAN	
STA 100+00 TO STA 103+00	

SCALE	BRIDGE FILE
	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	71 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

RIGHT-OF-WAY MARKER TABLE

STATION	OFFSET (FT.)	LEFT	RIGHT
LINE "PR-B"			
16+94.46	35.00		1
18+70.00	30.52	1	
18+70.00	35.00	1	
19+43.06	25.00		1
19+43.18	35.00		1
20+40.00	35.00	1	
20+40.00	50.00	1	
21+25.00	25.00		1
21+40.00	35.00		1
21+53.38	60.00		1
21+93.13	35.00		1
22+15.00	20.00		1
22+96.61	50.00	1	
22+96.61	20.00		1
23+57.32	45.49	1	
23+84.34	20.00		1
24+68.67	20.00		1
24+68.73	25.00		1
24+95.00	31.24	1	
24+95.00	35.00	1	
26+14.74	35.00	1	
26+14.74	25.00		1
26+72.71	35.00	1	
26+72.71	20.00		1
27+67.95	35.00	1	
27+67.95	20.00		1
28+31.55	20.00		1
28+64.19	32.00	1	
28+64.25	28.00	1	
29+89.34	28.00	1	
29+89.34	20.00		1
30+57.85	33.02	1	
30+69.43	20.00		1
SUBTOTALS		15	18
TOTAL			33

MAILBOX APPROACHES

LT./RT.	C/L BOX STATION	DESCRIPTION	WIDTH W(FT)	ASSEMBLY REQ'D	
				SINGLE	DOUBL
Line "PR-B"					
Lt.	16+05	MAILBOX ASSEMBLIES		2	
Lt.	22+94	MAILBOX ASSEMBLY		1	
Lt.	24+68.8	MAILBOX ASSEMBLY		1	
Lt.	24+70.8	MAILBOX ASSEMBLY		1	
Lt.	24+72.8	MAILBOX ASSEMBLY		1	
Lt.	26+64.2	MAILBOX ASSEMBLY		1	
Lt.	26+66.2	MAILBOX ASSEMBLY		1	
Lt.	26+68.2	MAILBOX ASSEMBLY		1	
Lt.	28+20.5	MAILBOX ASSEMBLY		1	
Lt.	28+22.5	MAILBOX ASSEMBLY		1	
Lt.	28+64.3	MAILBOX ASSEMBLY		1	
Lt.	29+62	MAILBOX ASSEMBLY		1	
Lt.	29+64	MAILBOX ASSEMBLY		1	
Lt.	30+24	MAILBOX ASSEMBLY		1	
Lt.	30+95	MAILBOX ASSEMBLY		1	
Line "S-1-PR-B"					
Lt.	101+25	MAILBOX ASSEMBLY		1	
Lt.	102+65	MAILBOX ASSEMBLY		1	
TOTAL				18	

MONUMENT TABLE

LOCATION	TYPE				SECTION CORNER	
	A	B	C	D		
PT Sta. 13+47.46 "PR-B"		1				
PC Sta. 22+96.61 "PR-B"		1				
TOTAL						2

UNDERDRAIN TABLE

UNDERDRAIN PIPE LIMITS	UNDERDRAIN PIPE							OUTLET PIPE										OUTLET PROTECTORS				REMARKS					
	Type 4 Pipe		GEOTEXTILE FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED (Y/N)	CONNECT UNDERDRAIN PIPE TO STRUC. NO.	STRUCTURE INVERT ELEVATION	45 DEG 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 STRUC. NO.	STRUCTURE INVERT ELEVATION	BORROW FOR STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO.		OUTLET PROTECTOR	Location			
	4"	6"																						OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT
	LFT	LFT	SYS	CYS	TONS	%	(Y/N)	CON	STRUC	45	LFT	STATION	ELEVATION	PROTECTOR	DITCH	CONNECT	STRUC	BORROW	HMA	PROTECTOR	PROTECTOR		OUTSIDE	MEDIAN	MEDIAN	OUTSIDE	
Line PR-B Left																											
18+50						852.47	-																				
19+22	72	60	8			850.36	N	37	849.40																		
19+22						850.36	-																				
20+22	100	84	10			845.49	N	41	844.50																		
20+22						845.49	-																				
21+22	100	84	10			838.40	N	45	838.40																		
Line PR-B Right																											
18+50						852.47	-																				
19+22	72	60	8			850.36	N	39	849.30																		
19+22						850.36	-																				
20+22	100	84	10			845.49	N	43	844.70																		
20+22						845.49	-																				
21+22	100	84	10			838.40	N	47	838.10																		



RECOMMENDED FOR APPROVAL: *Brad S. Paris* 12/28/2018
 DESIGN ENGINEER DATE
 DESIGNED: BSF DRAWN: BSF
 CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON
 SOD & MISCELLANEOUS TABLES

SCALE	BRIDGE FILE
NONE	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	72 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			PERIMETER PROTECTION	SEDIMENT TRAP	SEDIMENT BASIN	SLOPE DRAIN	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	RIPRAP DITCH CHECK	DITCH INLET PROTECTION	FISH POOL	REMARKS
	LEFT	MEDIAN	RIGHT										
	LFT	CYS	EACH	LFT	CYS	LFT	CYS	LFT	CYS	EACH	EACH		
11+63			X										E 205-TECI-05
11+65 to 14+00	X			235									E 205-TECP-01
11+74	X												E 205-TECI-05
12+00			X										E 205-TECI-05
12+00 to 14+00			X	200									E 205-TECP-01
13+41	X												E 205-TECI-05
13+50			X										E 205-TECI-05
13+66		X		TEMPORARY EROSION CONTROL, PERIMETER CONSTRUCTION ENTRANCE - 150 TONS									E 205-TECP-01
14+00 to 20+00	X			645									E 205-TECP-01
14+00 to 20+00			X	545									E 205-TECP-01
15+00			X										E 205-TECI-02 & E 205-TECI-05
15+00			X										E 205-TECI-02 EXISTING INLET
15+25			X										E 205-TECI-02 EXISTING INLET
15+41	X												E 205-TECI-02 & E 205-TECI-05
15+45			X										E 205-TECI-02 EXISTING INLET
15+53	X												E 205-TECI-02 & E 205-TECI-05
15+98	X												E 205-TECI-02 & E 205-TECI-05
15+98			X										E 205-TECI-02 & E 205-TECI-05
16+28	X												E 205-TECI-02 & E 205-TECI-05
16+28			X										E 205-TECI-02 & E 205-TECI-05
16+90			X										E 205-TECI-05
17+12	X												E 205-TECI-02 & E 205-TECI-05
17+17			X										E 205-TECI-02
17+19	X												E 205-TECI-02
17+29	X												E 205-TECI-02
17+37	X												E 205-TECI-05

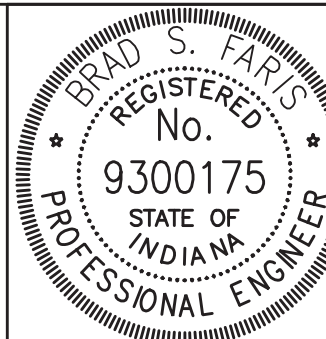
TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			PERIMETER PROTECTION	SEDIMENT TRAP	SEDIMENT BASIN	SLOPE DRAIN	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	RIPRAP DITCH CHECK	DITCH INLET PROTECTION	FISH POOL	REMARKS
	LEFT	MEDIAN	RIGHT										
	LFT	CYS	EACH	LFT	CYS	LFT	CYS	LFT	CYS	EACH	EACH		
17+65	X												E 205-TECI-05
17+80			X										E 205-TECI-05
17+95	X												E 205-TECI-05
18+02			X										E 205-TECI-02 & E 205-TECI-05
19+22	X												E 205-TECI-02 & E 205-TECI-05
19+22			X										E 205-TECI-02 & E 205-TECI-05
20+00 to 26+00	X			845									E 205-TECP-01
20+00 to 26+00			X	710									E 205-TECP-01
20+22	X												E 205-TECI-02 & E 205-TECI-05
20+22			X										E 205-TECI-02 & E 205-TECI-05
21+22	X												E 205-TECI-02 & E 205-TECI-05
21+22			X										E 205-TECI-02 & E 205-TECI-05
21+80	X												E 205-TECI-01
22+69			X										E 205-TECI-02 & E 205-TECI-05
22+76	X												E 205-TECI-01
23+62	X												E 205-TECI-02 & E 205-TECI-05
23+75			X										E 205-TECI-02 & E 205-TECI-05
24+71	X												E 205-TECI-02 & E 205-TECI-05
24+95	X												E 205-TECI-02 & E 205-TECI-05
25+02	X												E 205-TECI-01
25+61	X												E 205-TECI-02 & E 205-TECI-05
25+67	X												E 205-TECI-01
25+68			X										E 205-TECI-02 & E 205-TECI-05
26+00 to 32+00	X			540									E 205-TECP-01
26+00 to 32+00			X	590									E 205-TECP-01

EROSION CONTROL LEGEND

Note:
Existing and proposed storm water inlets exist under differing conditions during construction. In certain inlet locations multiple types of erosion control measures are warranted. Multiple legend notes are shown on the SWPPP plans when more than one application is needed.

- | | |
|---|--|
| ① Temporary Silt Fence (E 205-TECP-02) | ⑤ Temporary Ditch Inlet Protection, Geotextile Box (E 205-TECI-02) |
| ② Temporary Check Dam, Revetment Riprap (E 205-TECD-01) | ⑥ Temporary Erosion Control Inlet, Sandbag Curb Inlet Protection (E 205-TECI-05) |
| ③ Temporary Erosion Control Perimeter Construction Entrance (E 205-TECP-01) | ⑦ Temporary Seed Mixture = 2.0 X permanent seeding area |
| ④ Temporary Ditch Inlet Protection, Gravel Ring (E 205-TECI-01) | ⑧ Temporary Mulch = temp seed area |



RECOMMENDED FOR APPROVAL	<i>Brad S Faris</i>	12/28/2018
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

EROSION CONTROL TABLE

SCALE	BRIDGE FILE
N/A	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	73 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

TEMPORARY EROSION CONTROL TABLE

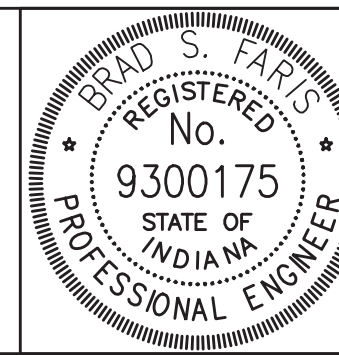
STATION	LOCATION			PERIMETER PROTECTION	SEDIMENT TRAP	SEDIMENT BASIN	SLOPE DRAIN	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	RIPRAP DITCH CHECK	DITCH INLET PROTECTION	FISH POOL	REMARKS
	LEFT	MEDIAN	RIGHT										
				LFT	CYS	EACH	LFT	CYS	LFT	CYS	EACH	EACH	
26+52	X												E 205-TECI-02 & E 205-TECI-05
26+78	X												E 205-TECI-02 & E 205-TECI-05
26+78			X										E 205-TECI-02 & E 205-TECI-05
26+80	X												E 205-TECI-01
27+70	X												E 205-TECI-01
28+22	X												E 205-TECI-02 & E 205-TECI-05
28+62	X												E 205-TECI-02 & E 205-TECI-05
28+64			X										E 205-TECI-02 & E 205-TECI-05
29+38	X												E 205-TECI-02 & E 205-TECI-05
29+63	X												E 205-TECI-02 & E 205-TECI-05
30+22	X												E 205-TECI-02 & E 205-TECI-05
30+30			X										E 205-TECI-02 & E 205-TECI-05
30+93	X												E 205-TECI-02
30+98	X												E 205-TECI-02 & E 205-TECI-05
30+98			X										E 205-TECI-02 & E 205-TECI-05
31+89	X												E 205-TECI-05
32+00 to 32+00			X	40									E 205-TECP-02
34+75			X					6.00					E 205-TECD-01
35+50			X					10.00					E 205-TECD-01
36+25			X					23.00					E 205-TECD-01
101+00 to 102+75	X			175									E 205-TECP-02
LINE "S-1-PR-B"													
101+10 to 101+50			X	40									E 205-TECP-02
LINE "S-1-PR-B"													

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			PERIMETER PROTECTION	SEDIMENT TRAP	SEDIMENT BASIN	SLOPE DRAIN	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	RIPRAP DITCH CHECK	DITCH INLET PROTECTION	FISH POOL	REMARKS
	LEFT	MEDIAN	RIGHT										
				LFT	CYS	EACH	LFT	CYS	LFT	CYS	EACH	EACH	

PLOTTED: Wednesday, January 02, 2019 4:27:13 PM

FILE: SHT_ECsumm_02.DWG



RECOMMENDED FOR APPROVAL: *Brad S. Farris* 12/28/2018
 DESIGN ENGINEER DATE
 DESIGNED: BSF DRAWN: BSF
 CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON
 EROSION CONTROL TABLE

SCALE: N/A BRIDGE FILE: N/A
 DESIGNATION: N/A
 SURVEY BOOK: N/A SHEETS: 74 of 100
 CONTRACT: N/A PROJECT: 17TH STREET RECONSTRUCTION

PLOTTED: Thursday, December 27, 2018 3:35:12 PM

FILE: PIPE MATERIALS 01.DWG

STRUCTURE NUMBER		16	17	18	19	20	21	22	23	24	25	26	28	29	30	31	32	34	36	37	38	39	40
PIPE TYPE / SHAPE (CIR or DEF)		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	2/CIR	2/CIR	2/CIR	2/CIR
INT. DES.	SMOOTH PIPE SIZE	12	12	12	12	12	12	12	15	12	15	15	15	15	15	12	12	18	12	12	12	12	15
	CORRUGATED PIPE SIZE	12	12	12	12	12	12	12	15	12	15	15	15	15	15	12	12	18	12	12	12	12	15
CONC.	SEMI-SMOOTH PIPE SIZE	12	12	12	12	12	12	12	15	12	15	15	15	15	15	12	12	18	12	12	12	12	15
	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)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

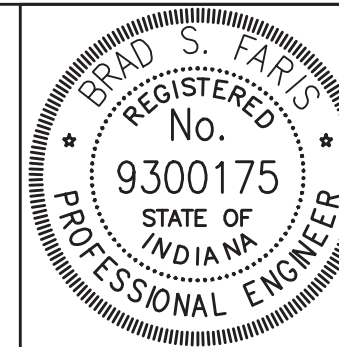
STRUCTURE NUMBER		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
PIPE TYPE / SHAPE (CIR or DEF)		2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR
INT. DES.	SMOOTH PIPE SIZE	12	15	12	15	15	15	12	15	12	12	12	12	12	12	12
	CORRUGATED PIPE SIZE	12	15	12	15	15	15	12	15	12	12	12	12	12	12	12
CONC.	SEMI-SMOOTH PIPE SIZE	12	15	12	15	15	15	12	15	12	12	12	12	12	12	12
	CLASS	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
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

LEGEND

- PIPE MATERIAL**
- RCP Reinforced Concrete Pipe
 - RCHEP Reinforced Concrete Horizontal Elliptical Pipe
 - PE Polyethylene
 - DR Dimension Ratio
 - PVC Polyvinyl Chloride
 - PP Polypropylene
 - CORR Corrugation
 - ALUM Aluminum
 - STR Structural
 - (LS) Lock Seam Pipe Required
- PIPE PROTECTION**
- BPI Bituminous Paved Invert
 - CFP Concrete Field Paving
 - BIT Bituminous
- SHAPE**
- CIR Circular Pipe
 - DEF Deformed Pipe
- INTERIOR DESIGNATION**
- (S) Smooth Pipe Material
 - (C) Corrugated Pipe Material
 - (SS) Semi-Smooth Pipe Material
- PIPE SIZE**
- Circular pipe is shown as diameter in inches
 - Deformed pipe is shown as area in square feet

* Refer to Standard Drawings 715-PHCL-20 through -22 for nominal diameter appropriate for pay item diameter.

** Tabulated thickness refers to top and side plates. For pipes and pipe-arches with a thickness less than .280 in., bottom plates shall be of next greater available thickness.



RECOMMENDED FOR APPROVAL: *Brad S. Paris*, 12/28/2018, DESIGN ENGINEER, DATE

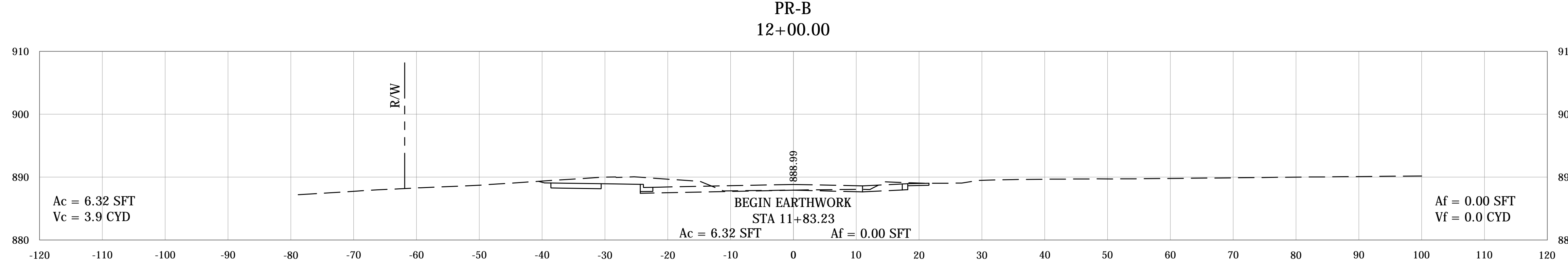
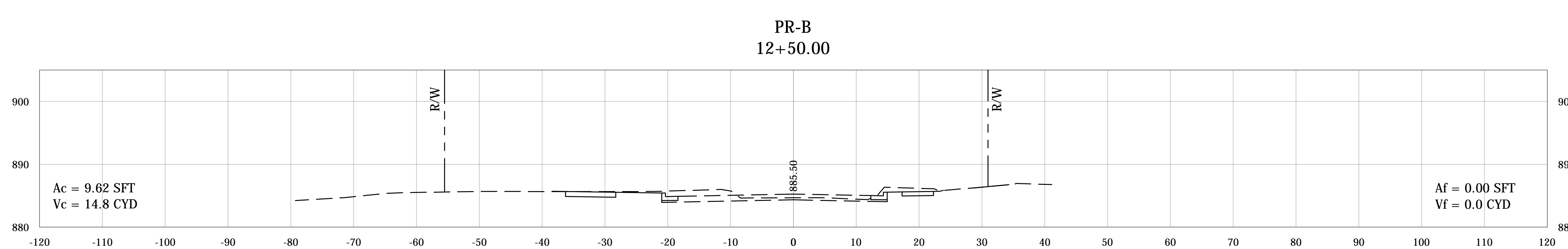
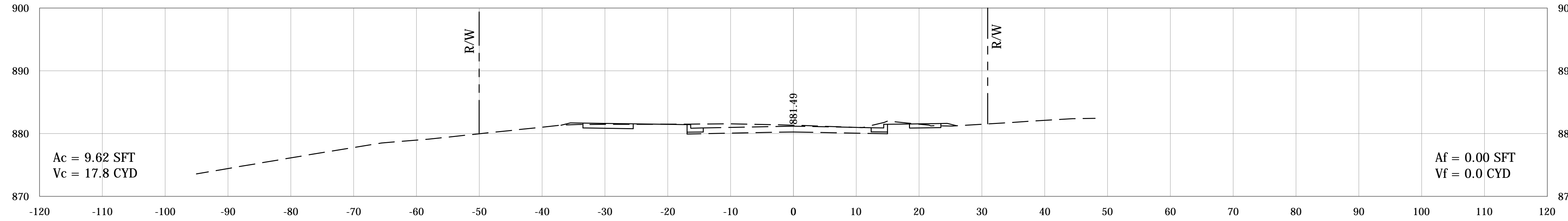
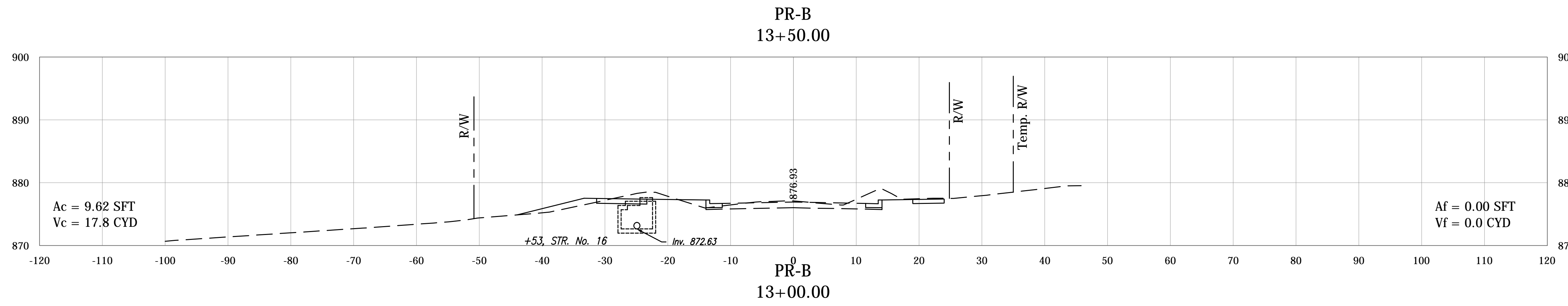
DESIGNED: LTM, DRAWN: CDF

CHECKED: GAG, CHECKED: LTM

CITY OF BLOOMINGTON

PIPE MATERIALS TABLE

SCALE	BRIDGE FILE
N/A	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	78 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLOTED: Friday, December 21, 2018 5:48:59 PM

FILE: RD_CORRIDOR_BSF.DWG

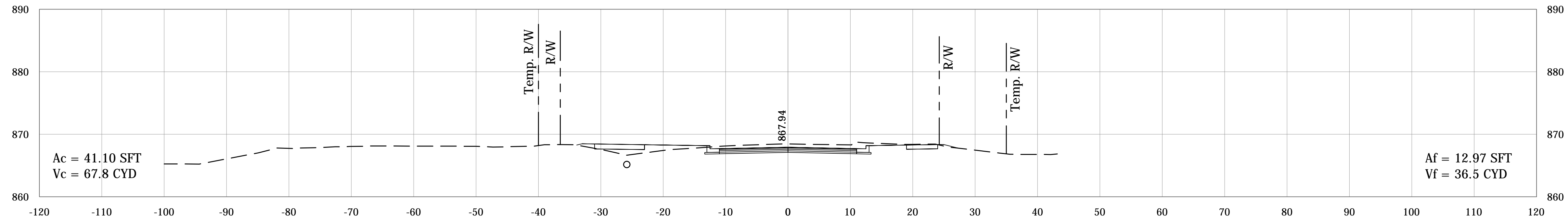
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____	
CHECKED: BSF _____	CHECKED: LAR _____	

CITY OF BLOOMINGTON

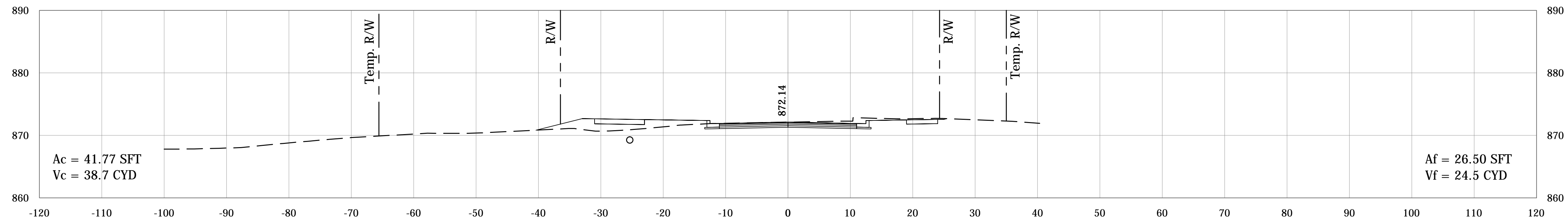
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	80 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

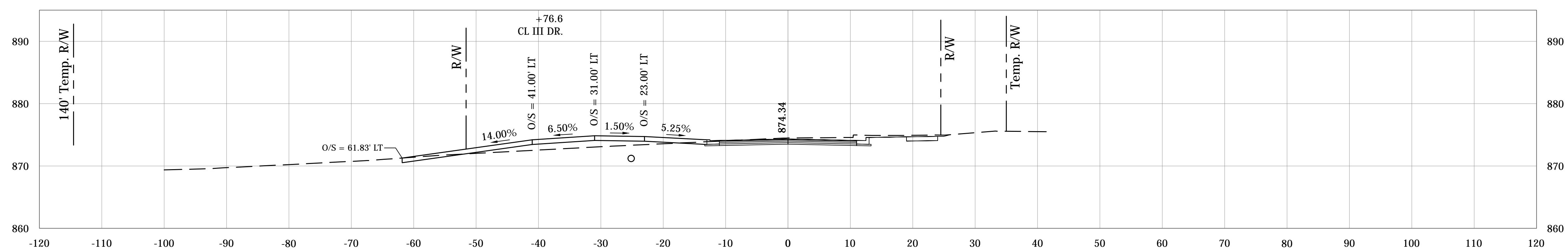
PR-B
14+50.00



PR-B
14+00.00



PR-B
13+76.60



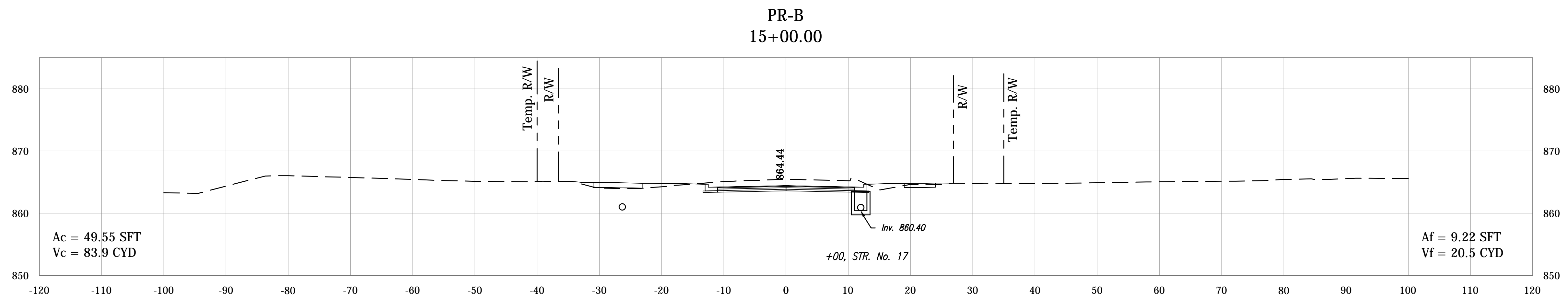
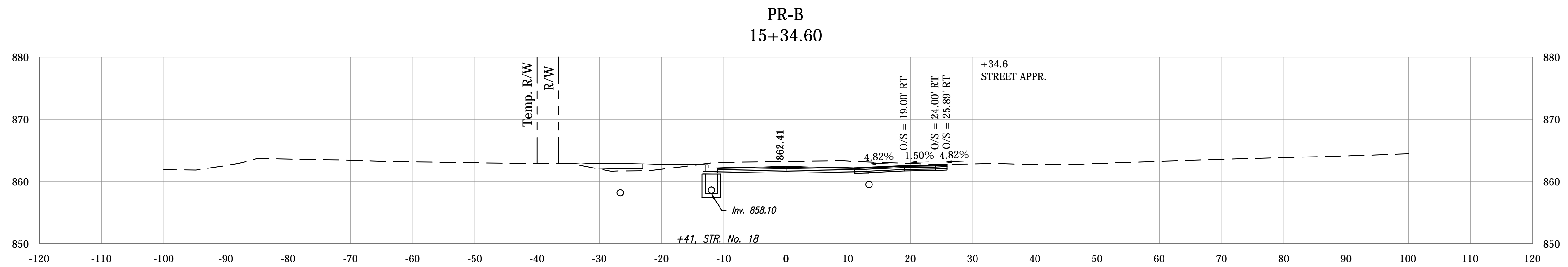
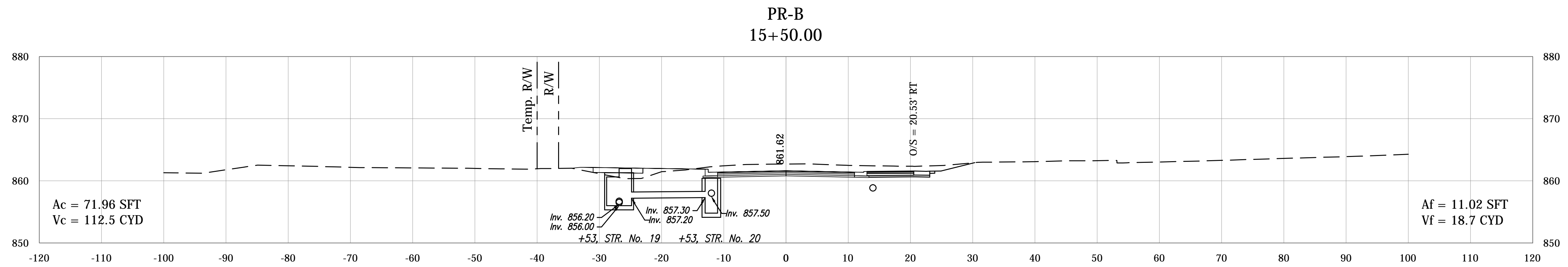
PLotted: Friday, December 21, 2018 6:01:32 PM

FILE: RD_CORRIDOR_BSF.DWG

RECOMMENDED FOR APPROVAL _____	
DESIGNED: BSF	DRAWN: JAF
CHECKED: BSF	CHECKED: LAR

CITY OF BLOOMINGTON	
CROSS SECTIONS	

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	81 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLOTTED: Friday, December 21, 2018 6:04:49 PM

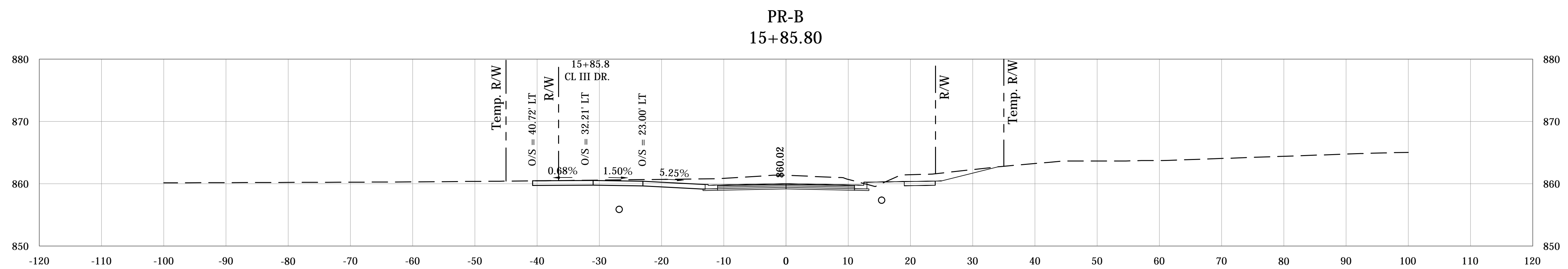
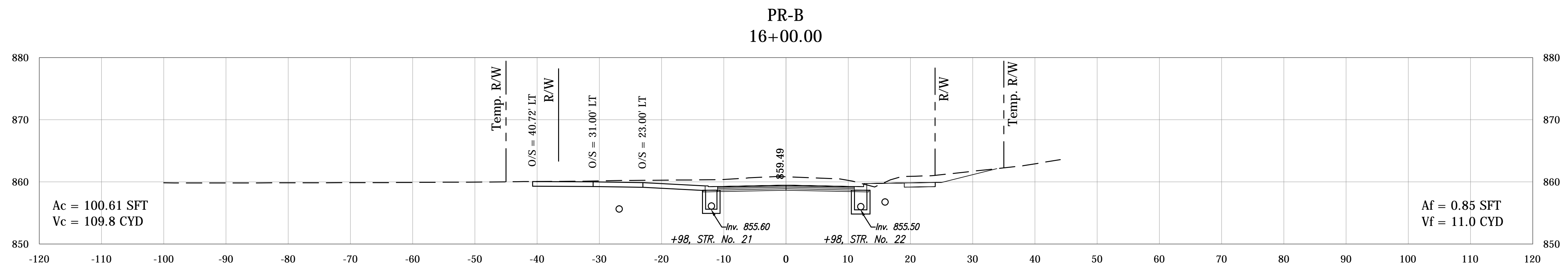
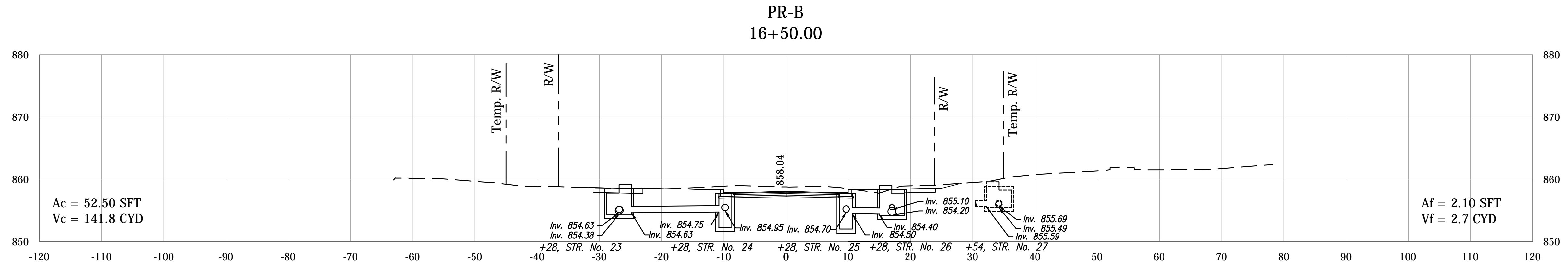
FILE: RD_CORRIDOR_BSF.DWG

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF	DRAWN: JAF		
CHECKED: BSF	CHECKED: LAR		

CITY OF BLOOMINGTON

CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	82 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLOTED: Friday, December 21, 2018 6:07:08 PM

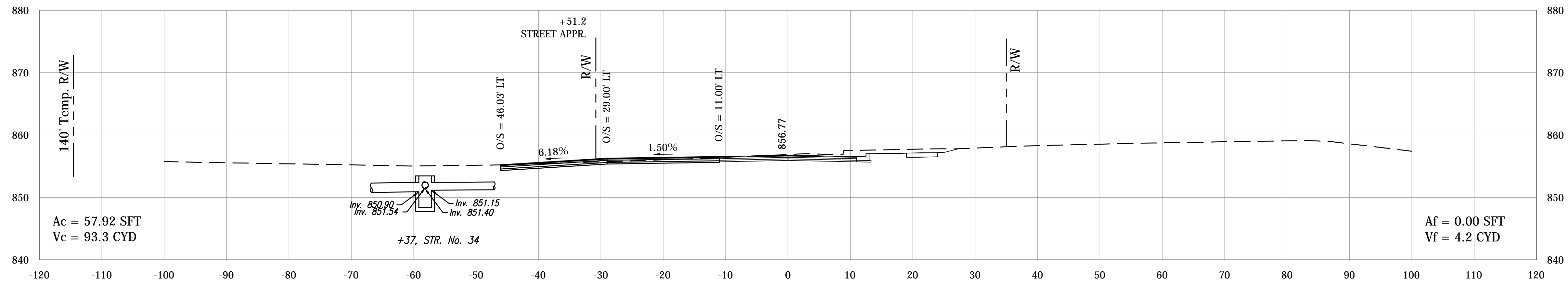
FILE: RD_CORRIDOR_BSF.DWG

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: JAF	
CHECKED: BSF	CHECKED: LAR	

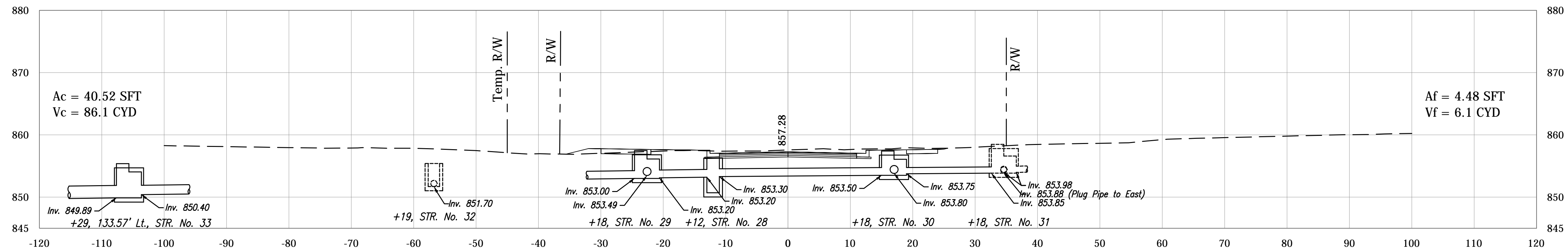
CITY OF BLOOMINGTON	
CROSS SECTIONS	

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	83 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

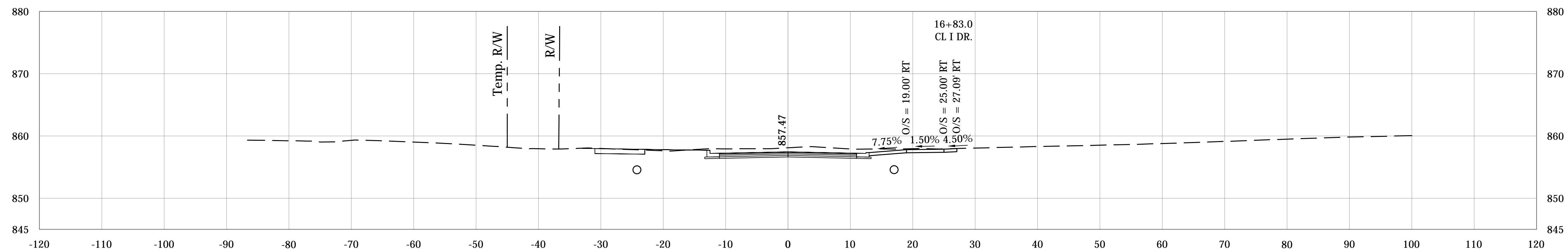
PR-B
17+51.20



PR-B
17+00.00



PR-B
16+83.00



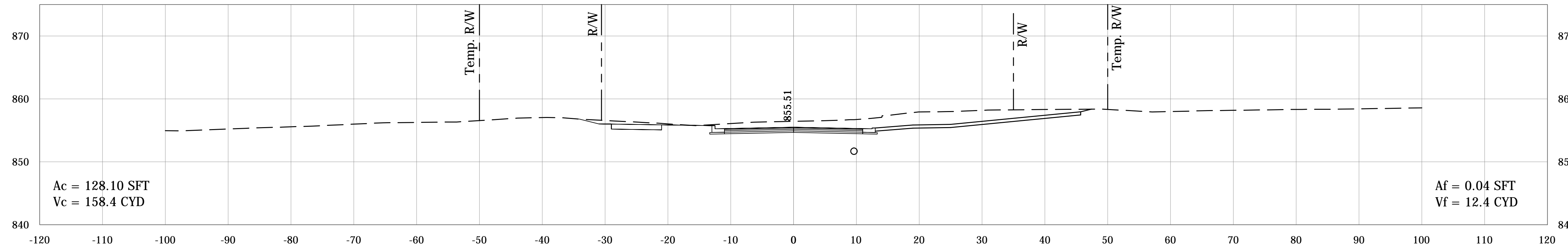
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: JAF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

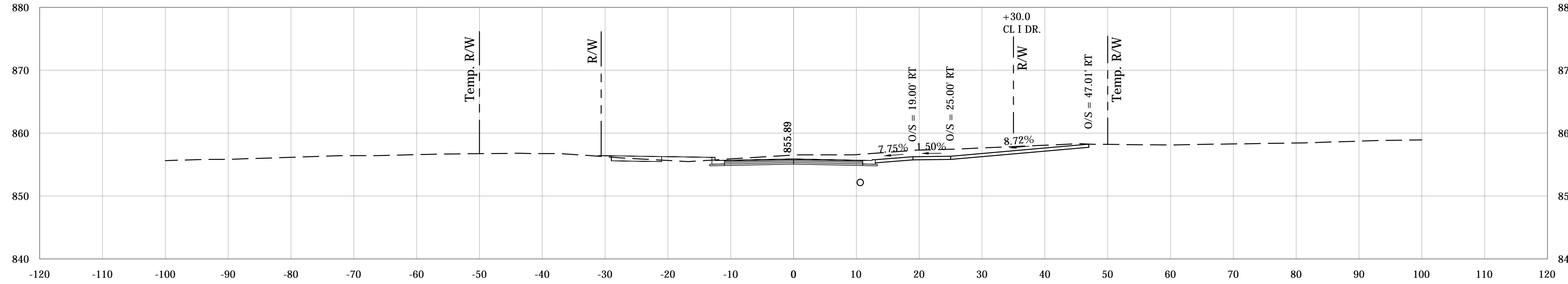
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	84 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

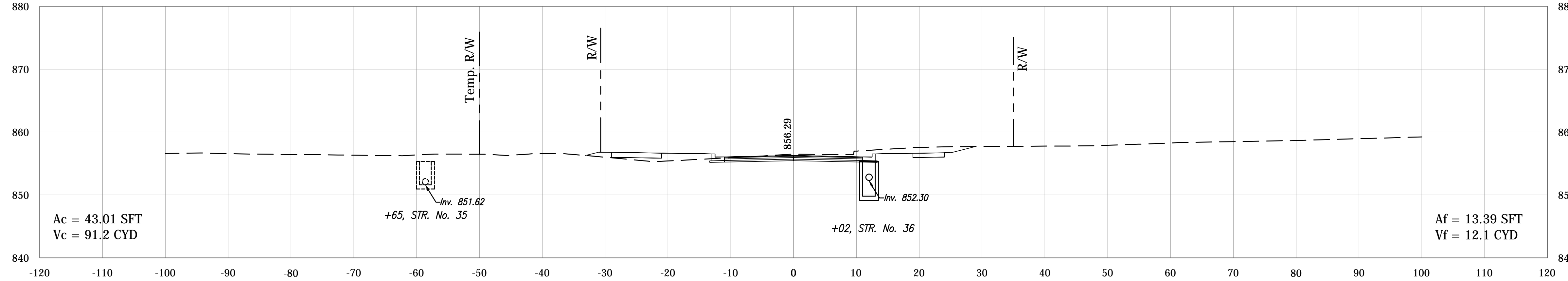
PR-B
18+50.00



PR-B
18+30.00



PR-B
18+00.00



PLOTTED: Friday, December 21, 2018 6:15:03 PM

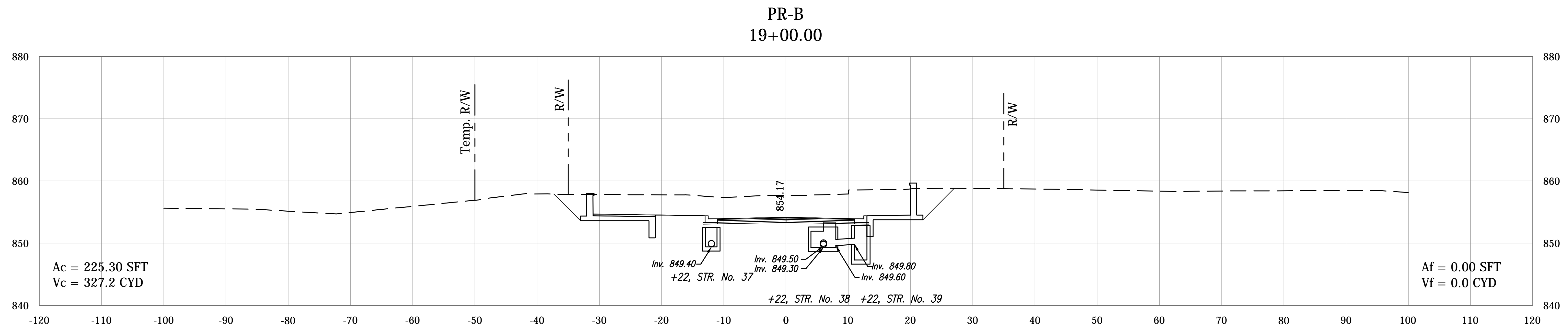
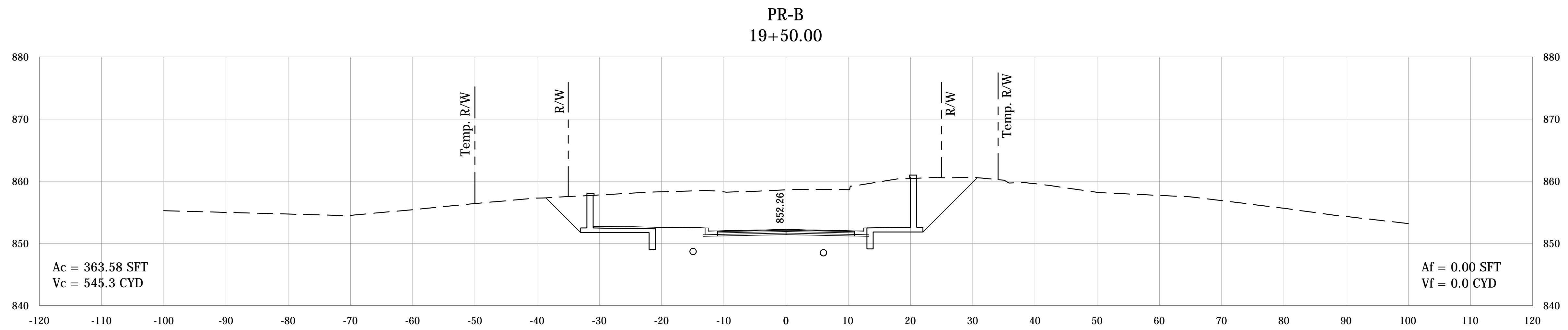
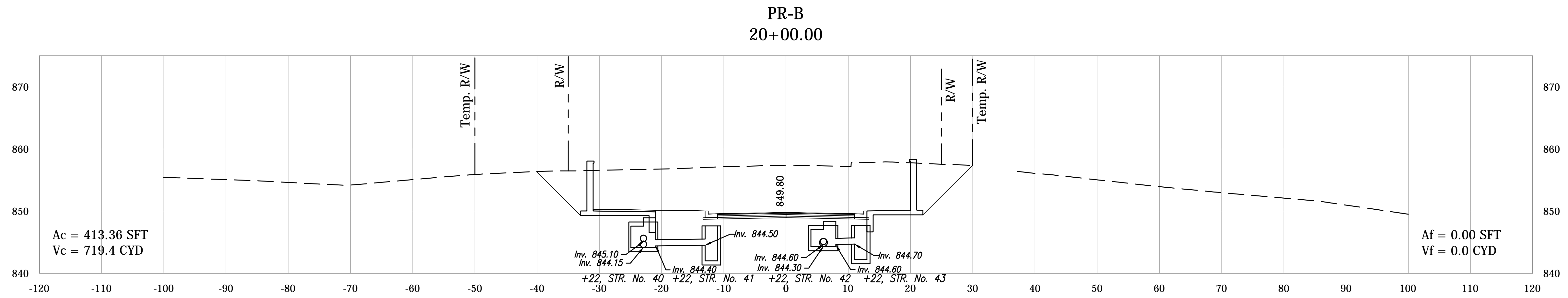
FILE: RD_CORRIDOR_BSF.DWG

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____	
CHECKED: BSF _____	CHECKED: LAR _____	

CITY OF BLOOMINGTON

CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	85 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLOTED: Friday, December 21, 2018 6:17:34 PM

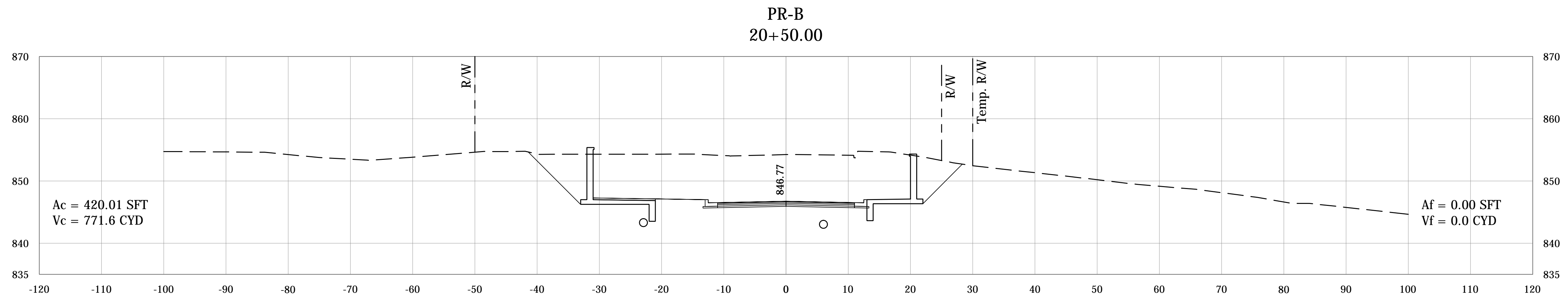
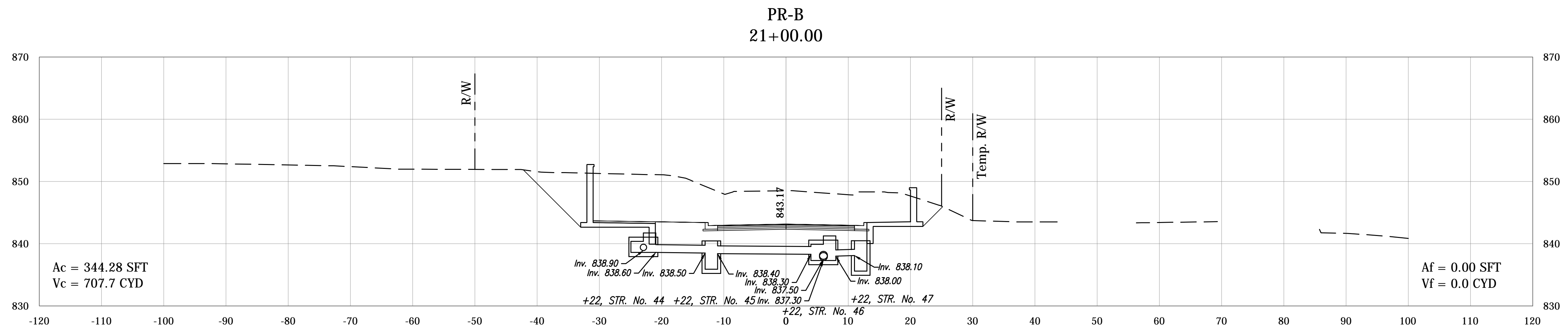
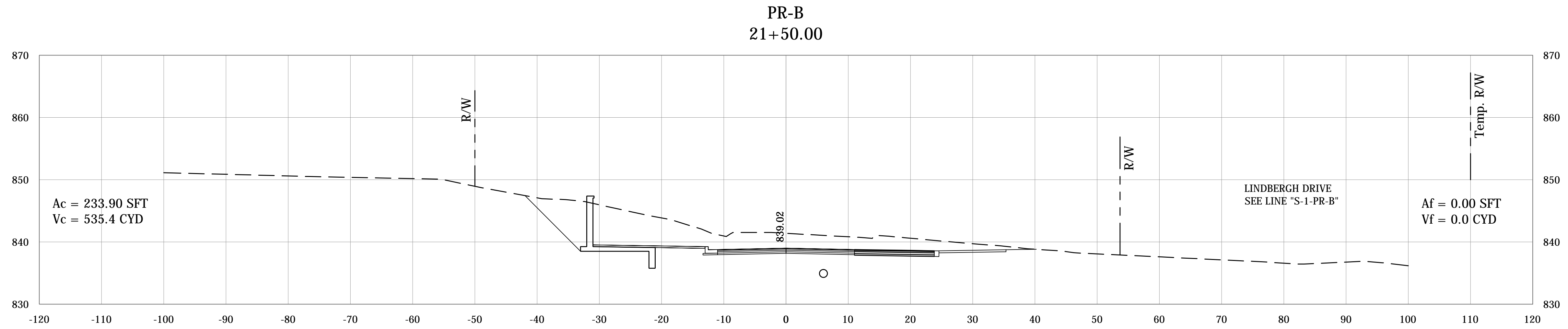
FILE: RD_CORRIDOR_BSF.DWG

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____	
CHECKED: BSF _____	CHECKED: LAR _____	

CITY OF BLOOMINGTON

CROSS SECTIONS

SCALE 1"=10'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 86 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION



PLOTTED: Friday, December 21, 2018 6:19:40 PM

FILE: RD_CORRIDOR_BSF.DWG

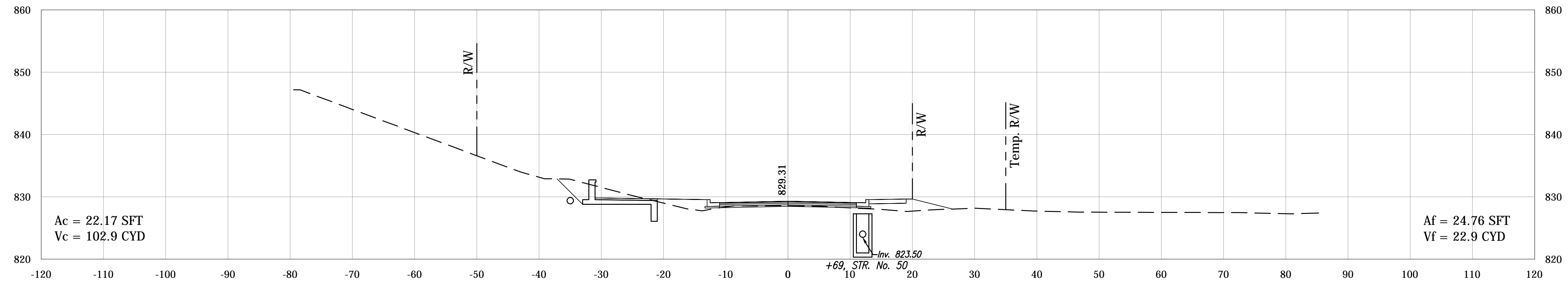
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____	
CHECKED: BSF _____	CHECKED: LAR _____	

CITY OF BLOOMINGTON

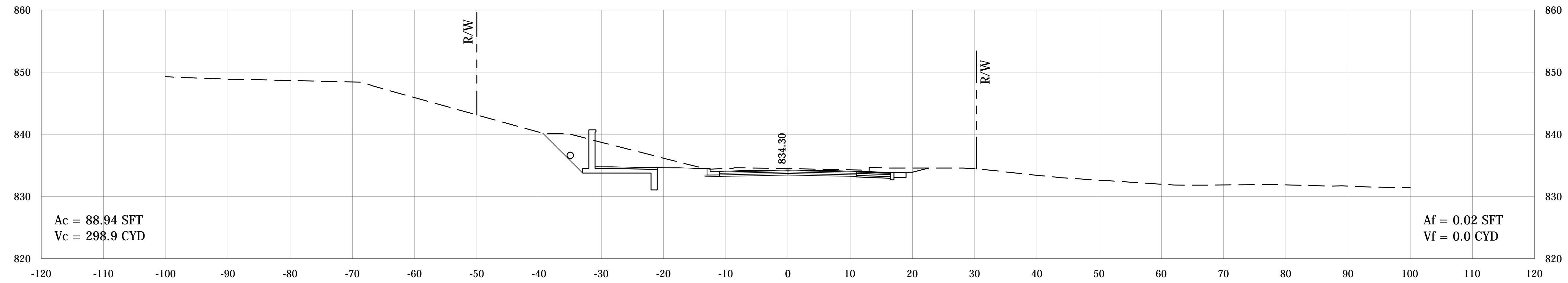
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	87 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

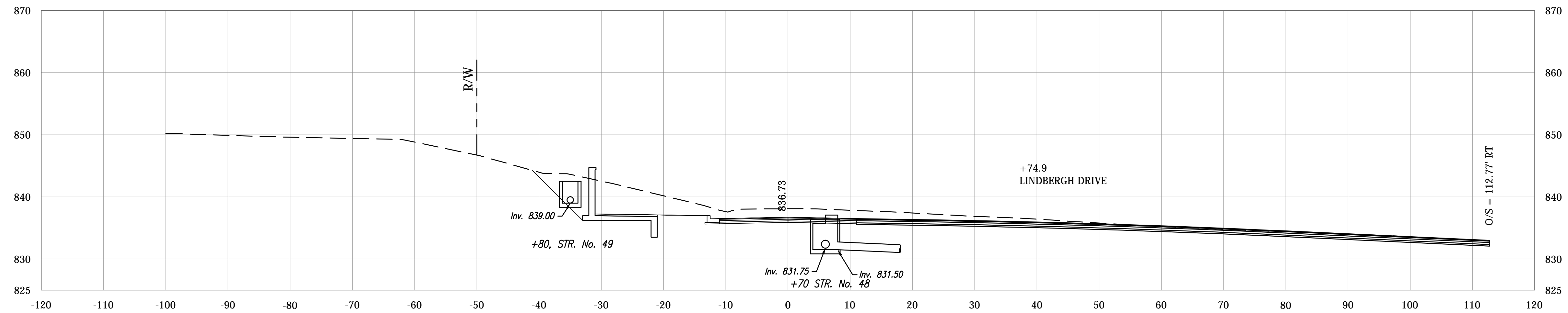
PR-B
22+50.00



PR-B
22+00.00



PR-B
21+74.93



PLOTTED: Friday, December 21, 2018 6:21:42 PM

FILE: RD_CORRIDOR_BSF.DWG

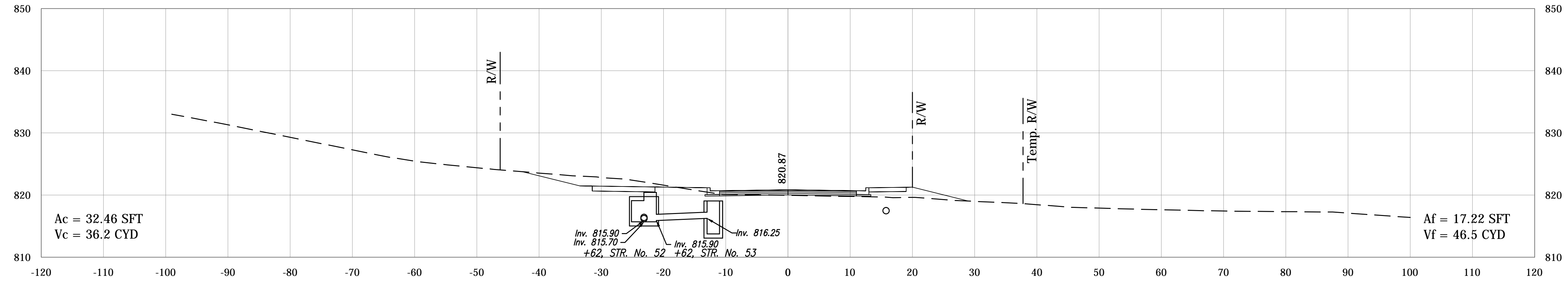
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____	
CHECKED: BSF _____	CHECKED: LAR _____	

CITY OF BLOOMINGTON

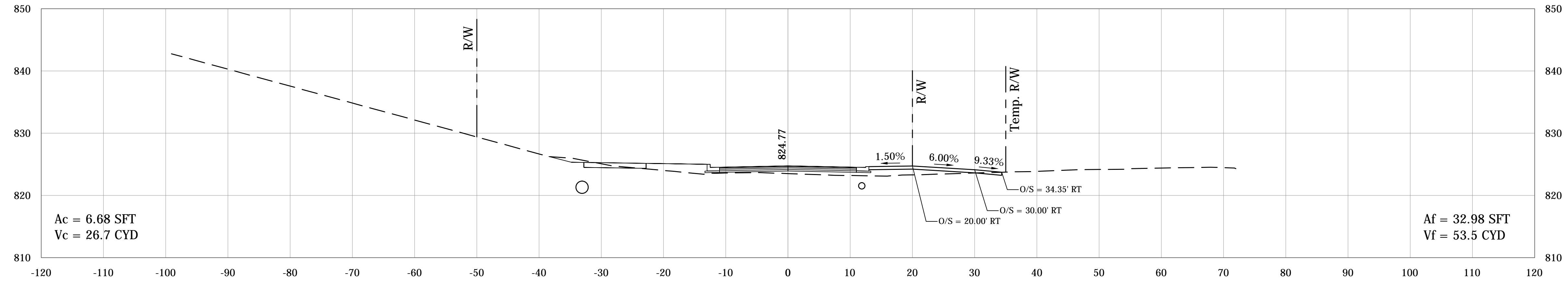
CROSS SECTIONS

SCALE 1"=10'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 88 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

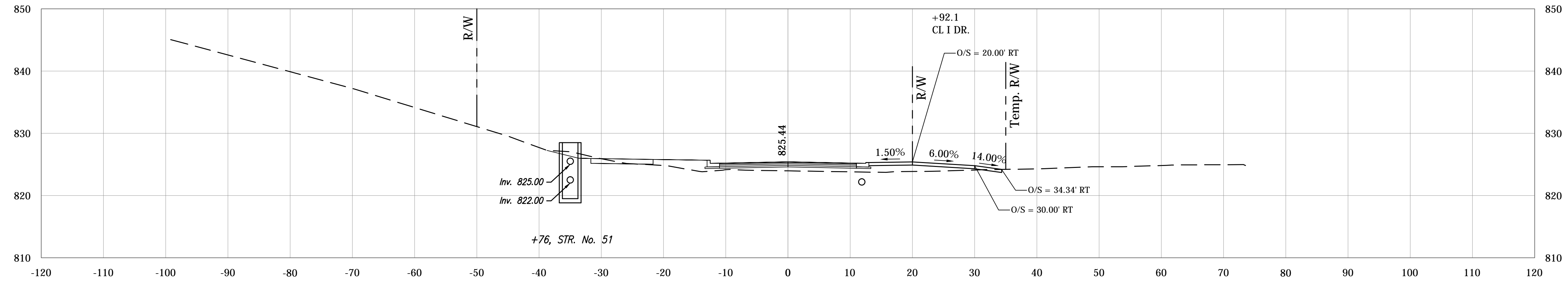
PR-B
23+50.00



PR-B
23+00.00



PR-B
22+92.10



PLOTTED: Friday, December 21, 2018 6:23:57 PM

FILE: RD_CORRIDOR_BSF.DWG

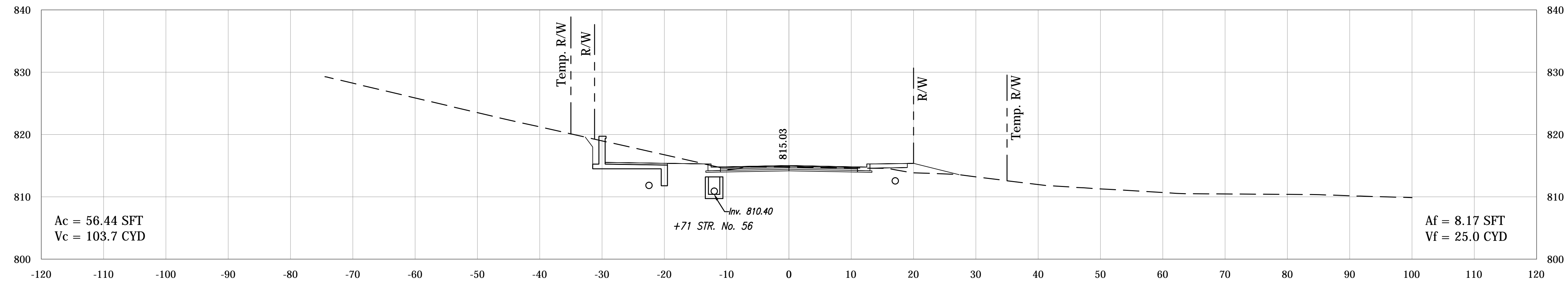
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____	
CHECKED: BSF _____	CHECKED: LAR _____	

CITY OF BLOOMINGTON

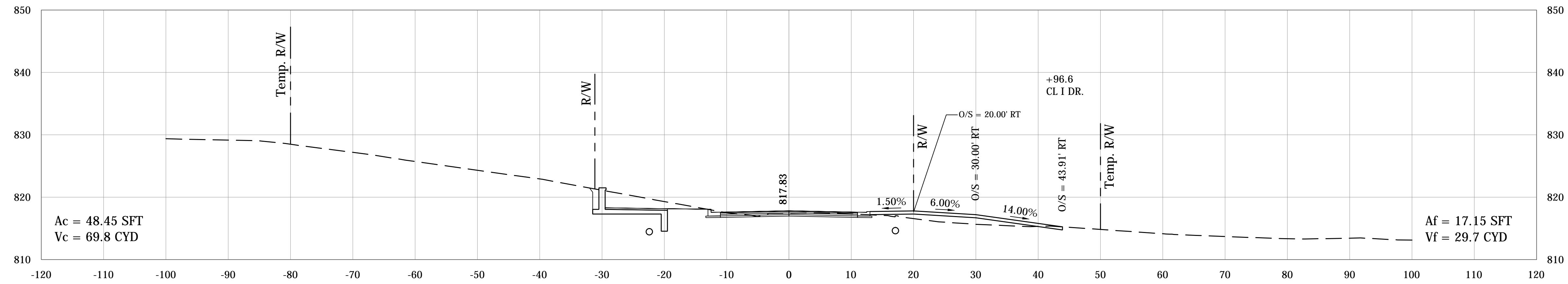
CROSS SECTIONS

SCALE 1"=10'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 89 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

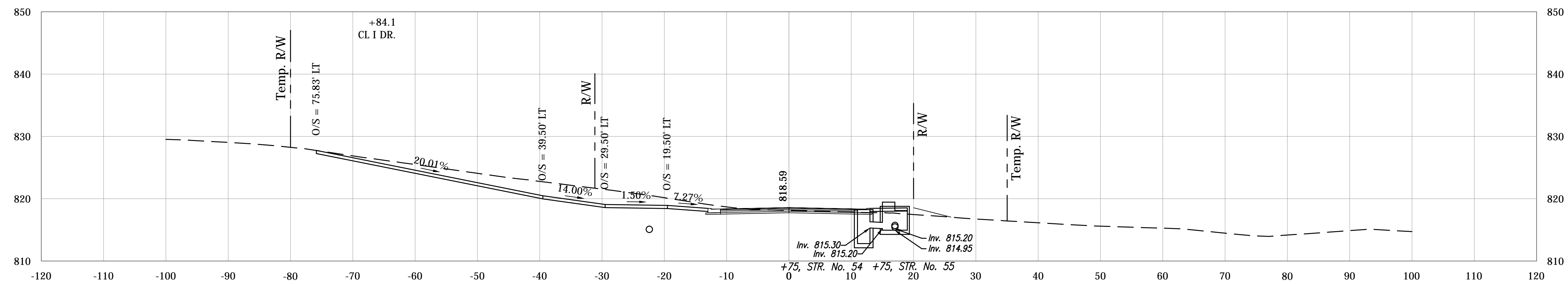
PR-B
24+50.00



PR-B
23+96.60



PR-B
23+84.10



PLOTTED: Friday, December 21, 2018 6:28:52 PM

FILE: RD_CORRIDOR_BSF.DWG

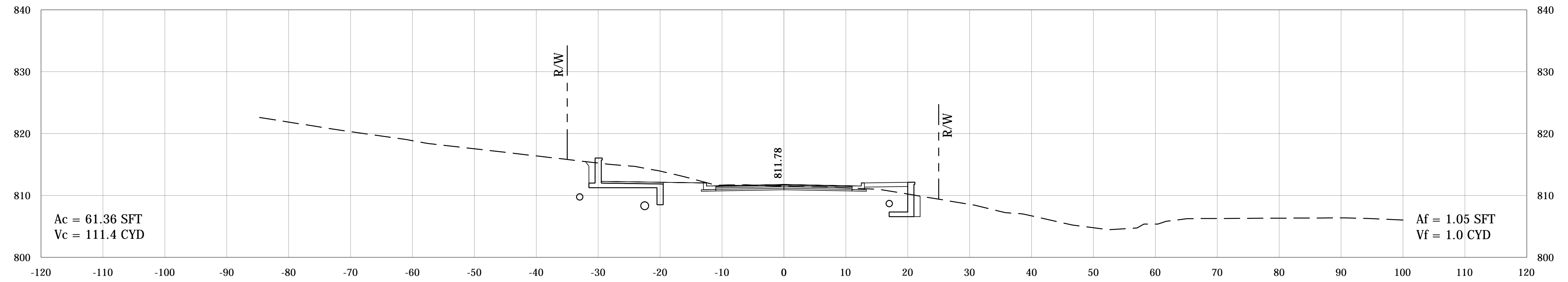
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____	
CHECKED: BSF _____	CHECKED: LAR _____	

CITY OF BLOOMINGTON

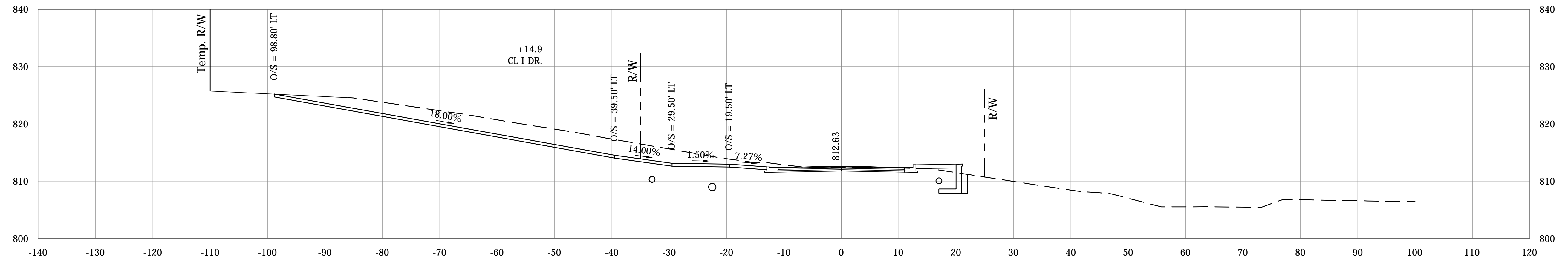
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	90 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

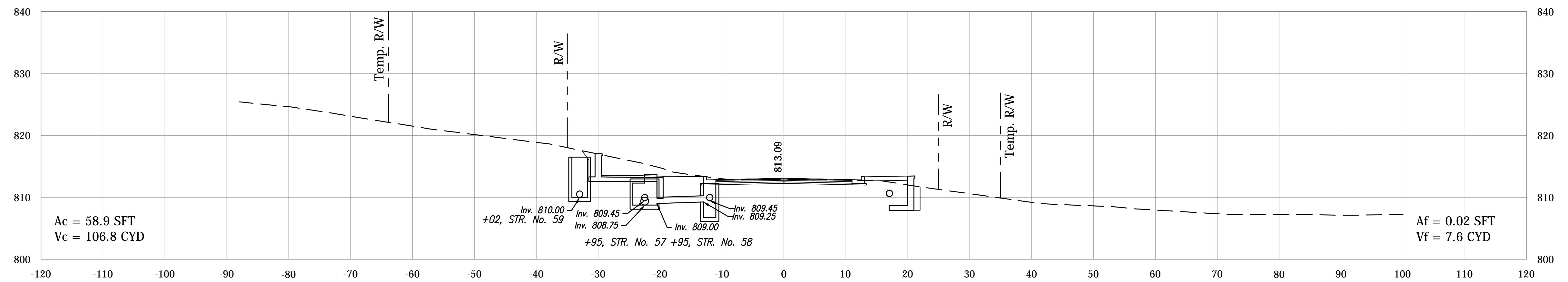
PR-B
25+50.00



PR-B
25+14.90



PR-B
25+00.00



PLOTTED: Friday, December 21, 2018 6:29:09 PM

FILE: RD_CORRIDOR_BSF.DWG

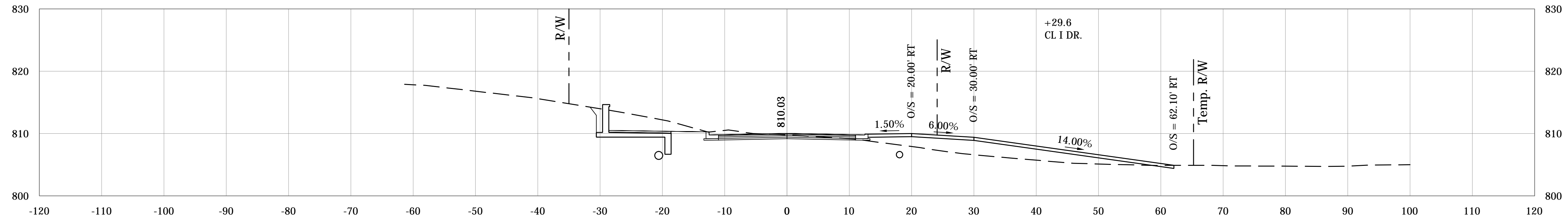
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: JAF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

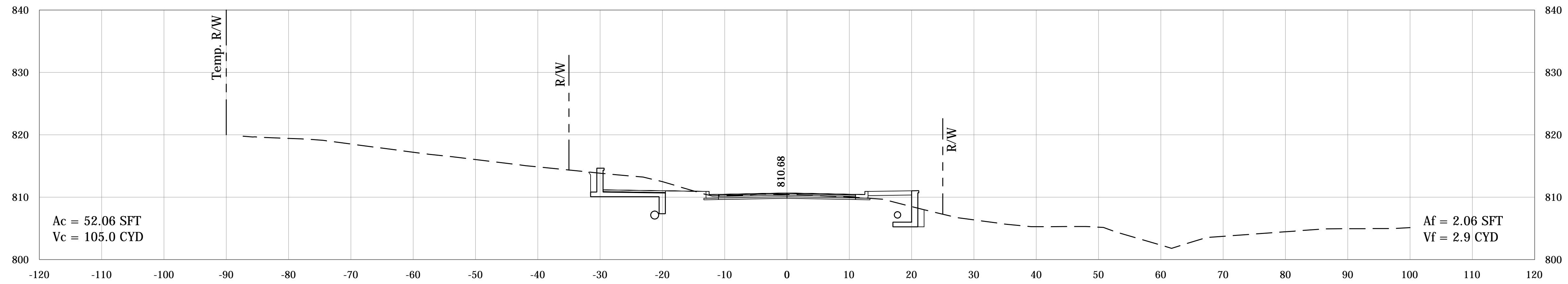
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	91 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

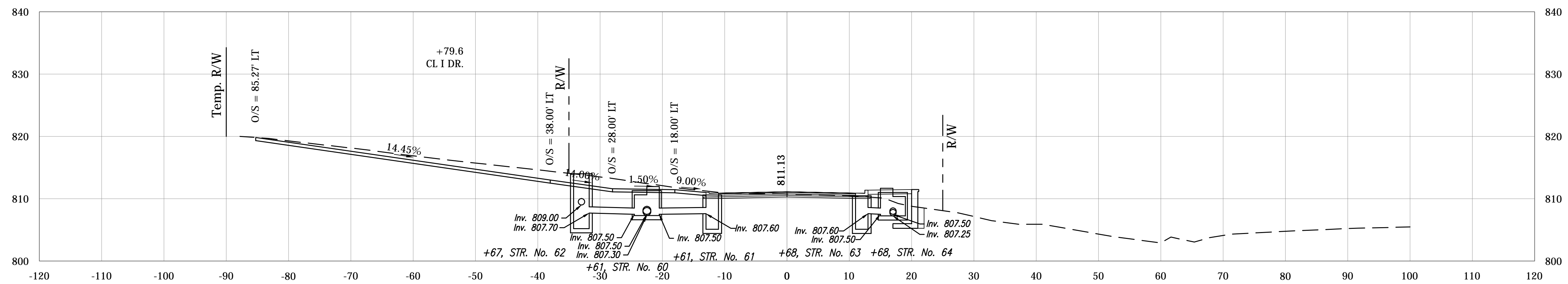
PR-B
26+29.60



PR-B
26+00.00



PR-B
25+79.60



PLOTTED: Friday, December 21, 2018 6:31:27 PM

FILE: RD_CORRIDOR_BSF.DWG

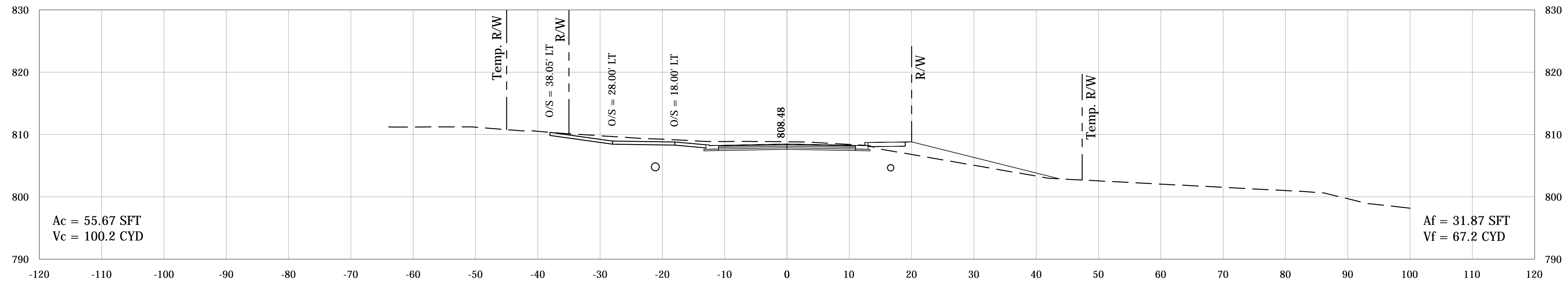
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE _____
DESIGNED: BSF DRAWN: JAF
CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON

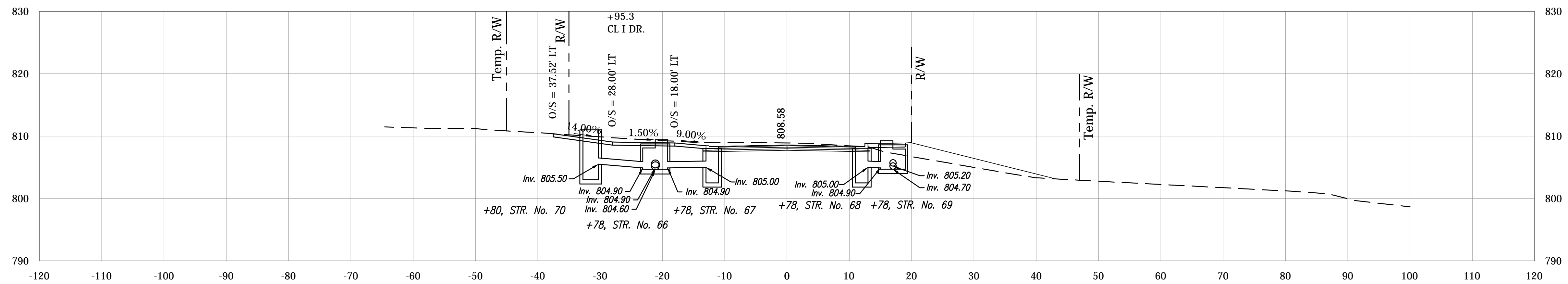
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	92 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

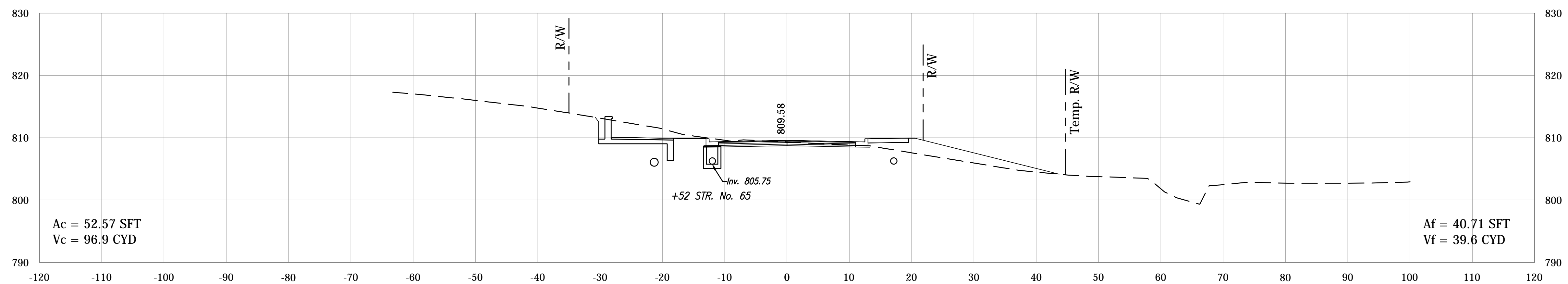
PR-B
27+00.00



PR-B
26+95.30



PR-B
26+50.00



PLOTTED: Friday, December 21, 2018 6:35:12 PM

FILE: RD_CORRIDOR_BSF.DWG

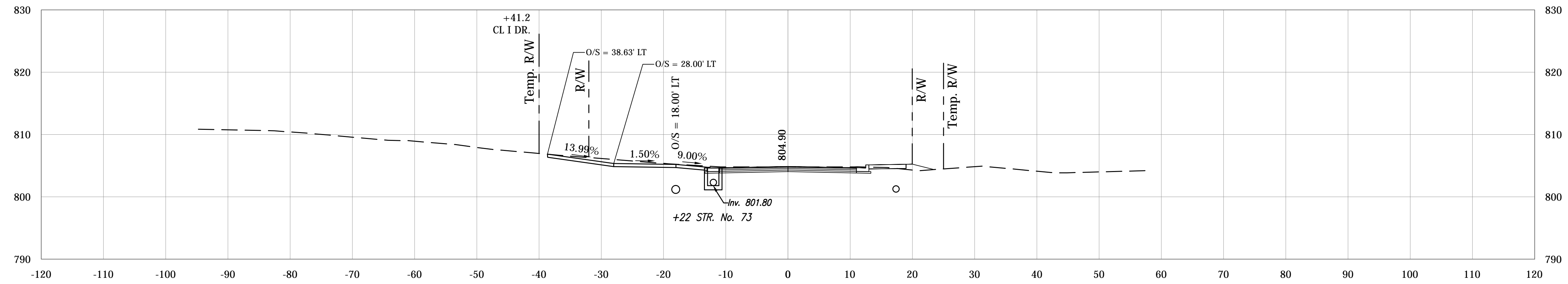
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____	
CHECKED: BSF _____	CHECKED: LAR _____	

CITY OF BLOOMINGTON

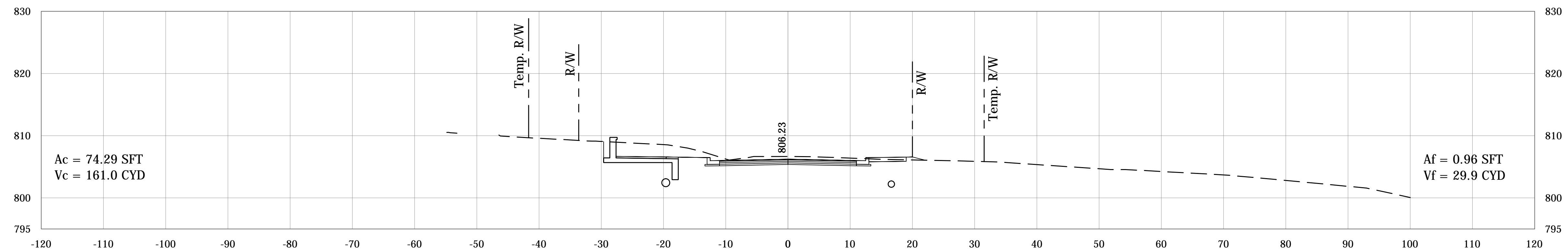
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	93 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

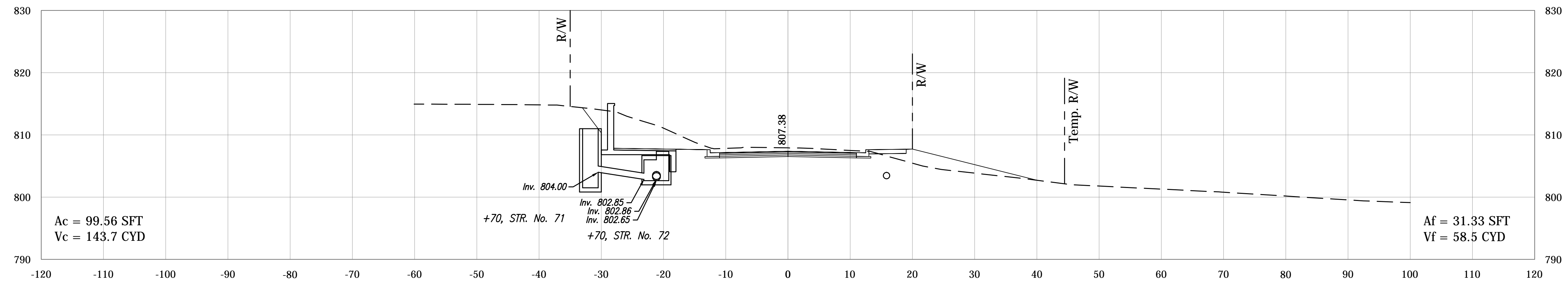
PR-B
28+41.20



PR-B
28+00.00



PR-B
27+50.00



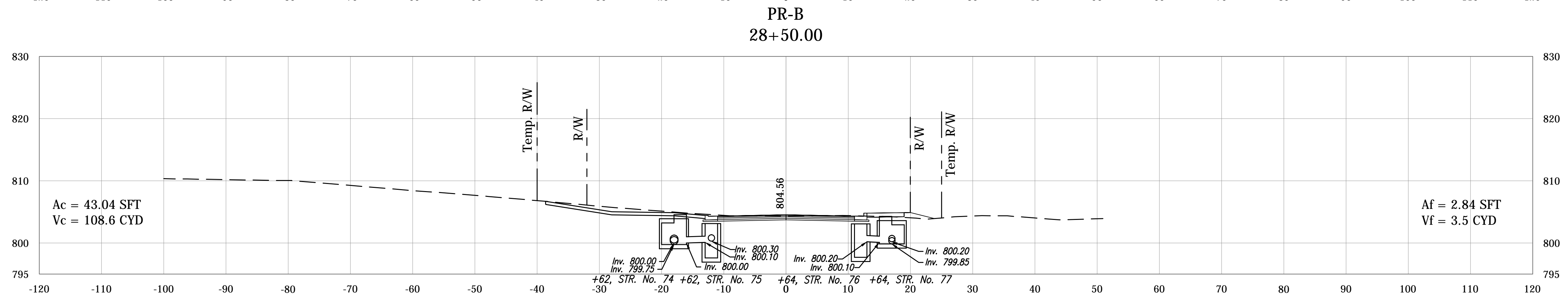
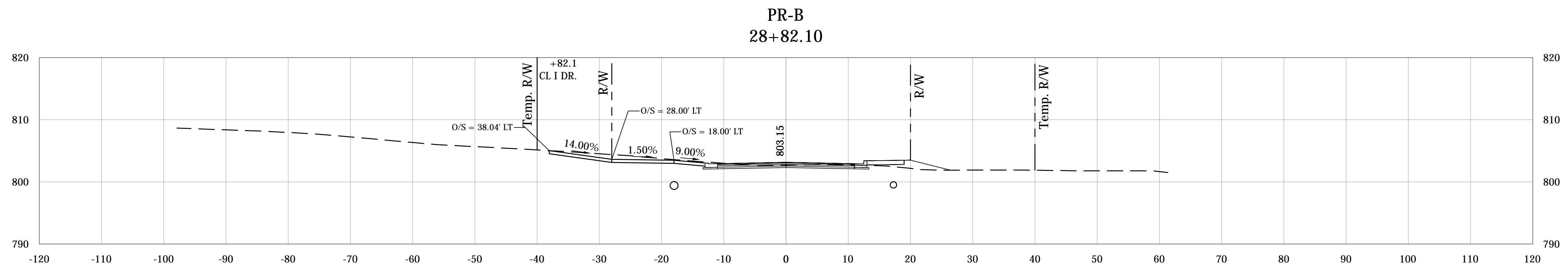
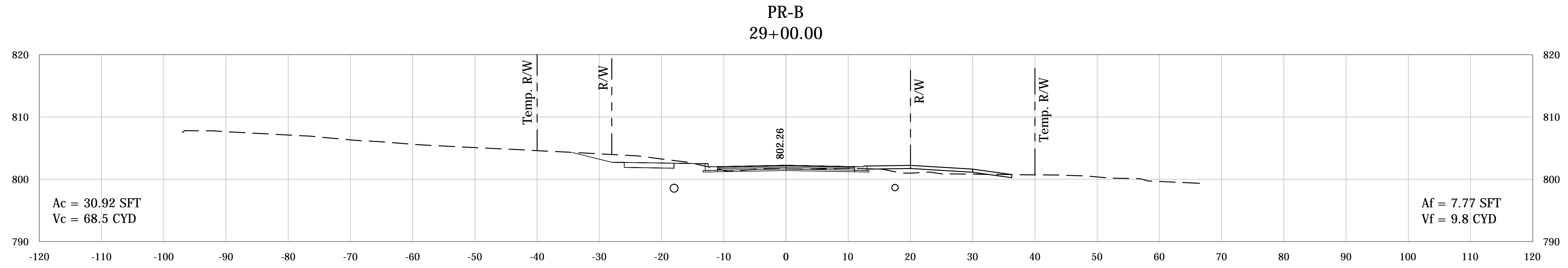
PLOTTED: Friday, December 21, 2018 6:37:20 PM

FILE: RD_CORRIDOR_BSF.DWG

RECOMMENDED FOR APPROVAL _____
DESIGNED: BSF DRAWN: JAF
CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	94 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLOTED: Friday, December 21, 2018 6:39:40 PM

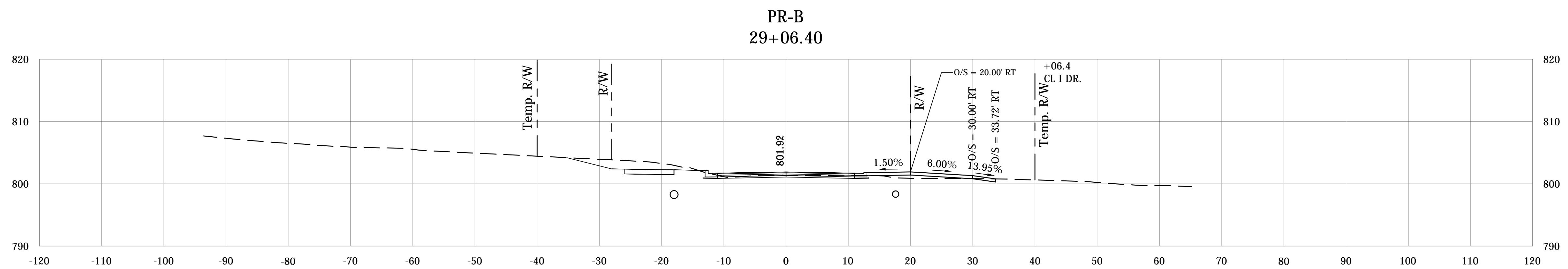
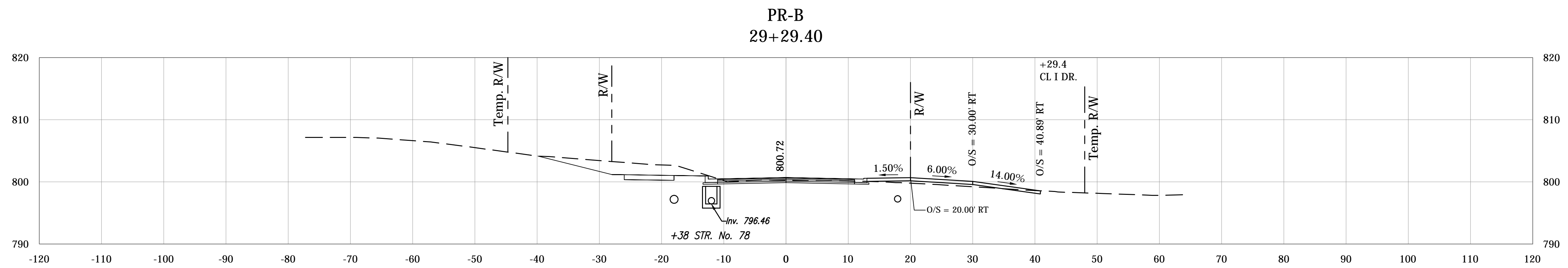
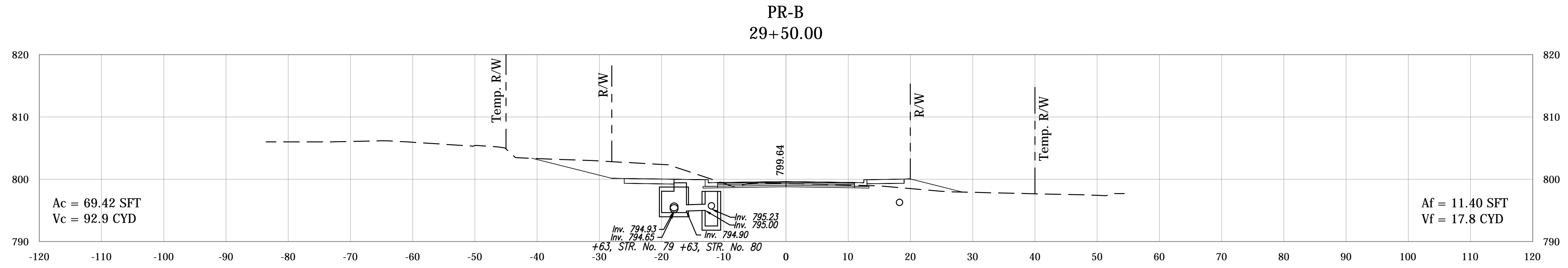
FILE: RD_CORRIDOR_BSF.DWG

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: JAF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	95 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



PLOTTED: Friday, December 21, 2018 6:41:37 PM

FILE: RD_CORRIDOR_BSF.DWG

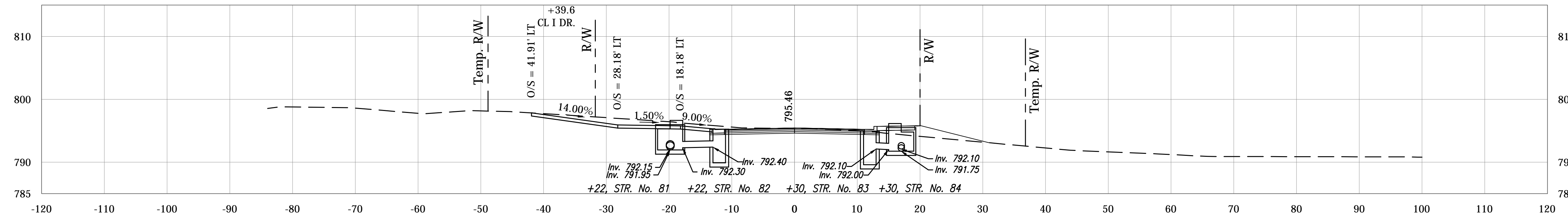
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: JAF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

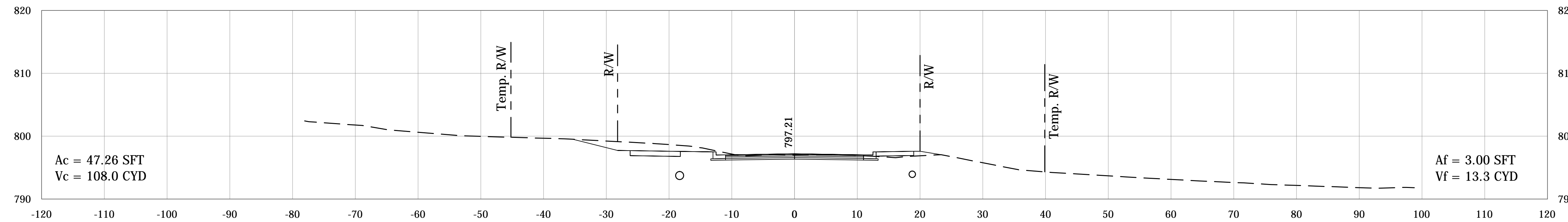
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	96 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

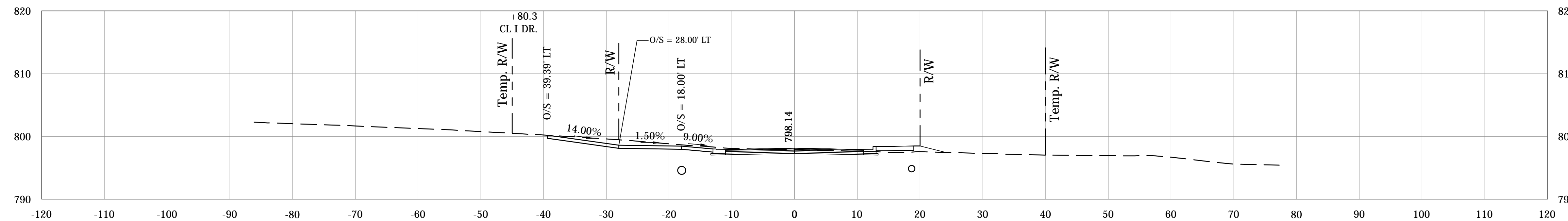
PR-B
30+39.60



PR-B
30+00.00



PR-B
29+80.30



PLotted: Friday, December 21, 2018 6:43:29 PM

FILE: RD_CORRIDOR_BSF.DWG

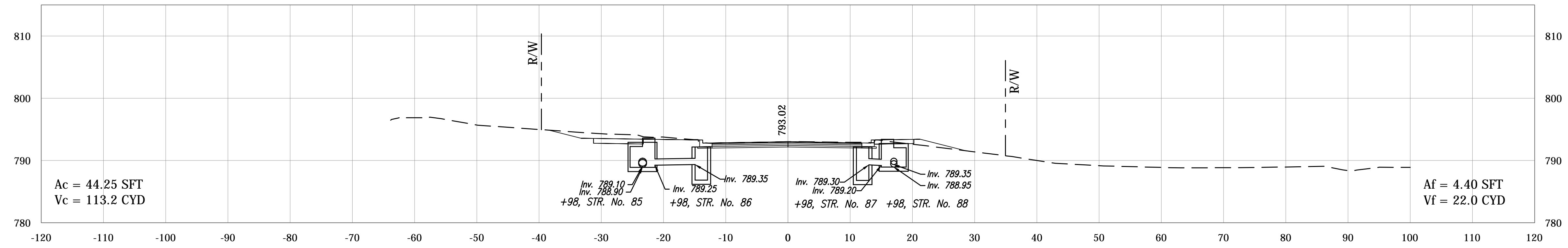
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE _____
DESIGNED: BSF DRAWN: JAF
CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON

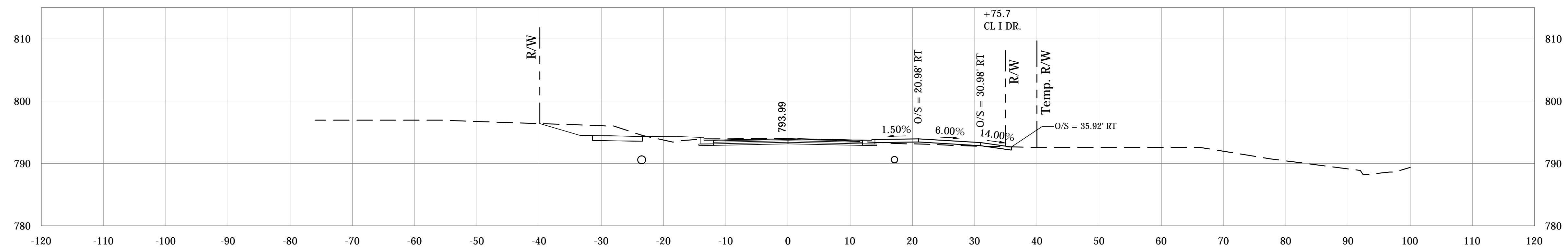
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	97 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

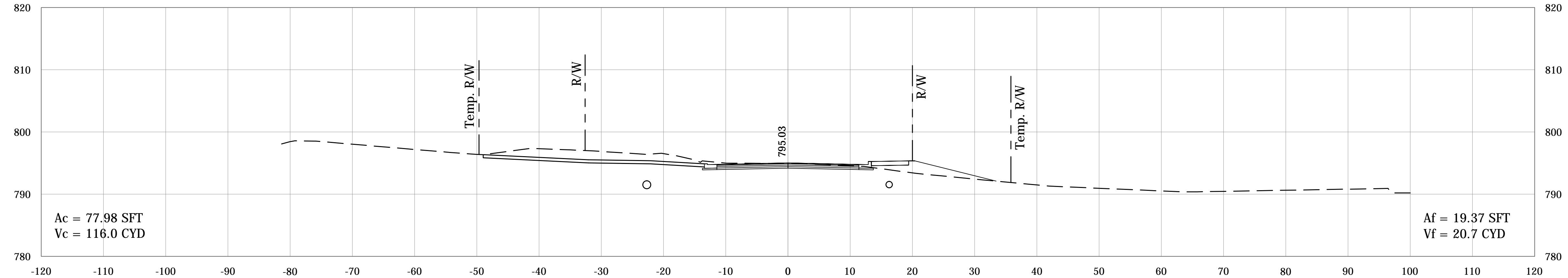
PR-B
31+00.00



PR-B
30+75.70



PR-B
30+50.00



PLOTTED: Friday, December 21, 2018 6:45:38 PM

FILE: RD_CORRIDOR_BSF.DWG

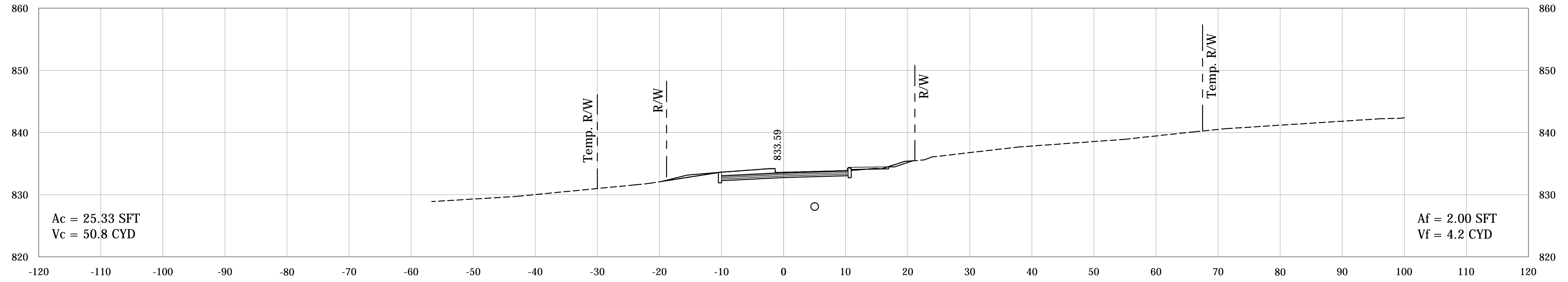
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____	
CHECKED: BSF _____	CHECKED: LAR _____	

CITY OF BLOOMINGTON

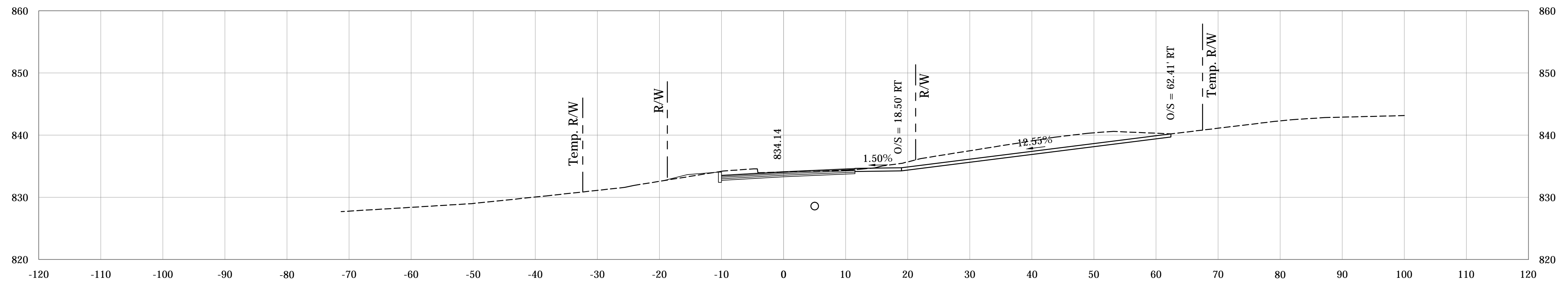
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	98 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

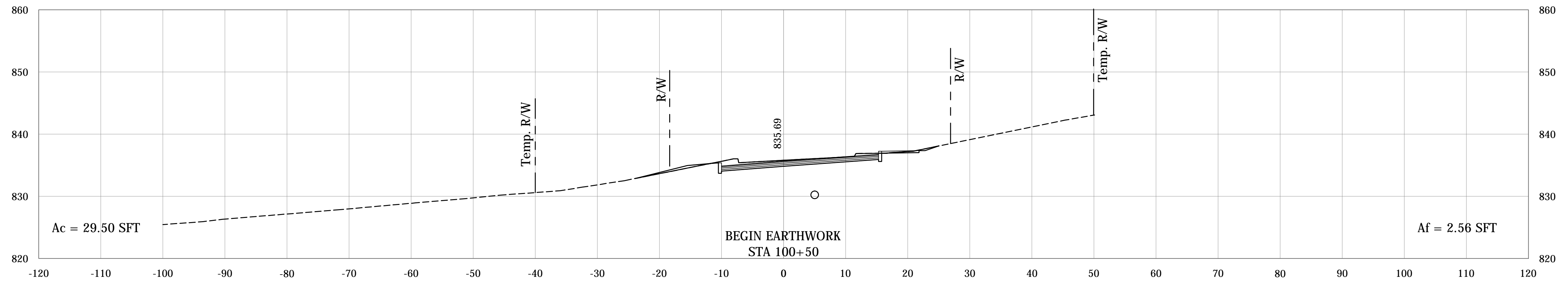
S-1-PR-B
101+00.00



S-1-PR-B
100+88.30



S-1-PR-B
100+50.00



PLOTTED: Friday, December 21, 2018 7:03:30 PM

FILE: RD_CORRIDOR_2.DWG

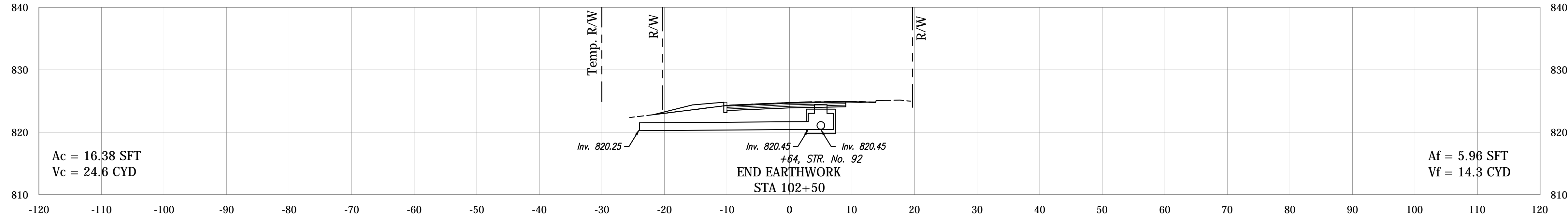
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____	
CHECKED: BSF _____	CHECKED: LAR _____	

CITY OF BLOOMINGTON

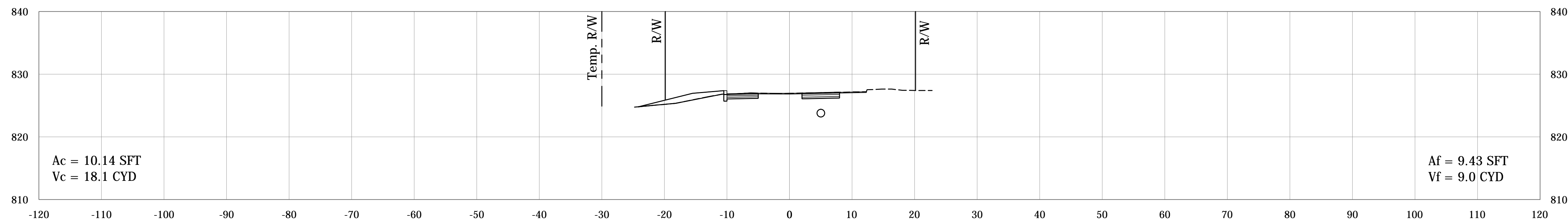
CROSS SECTIONS

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	99 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

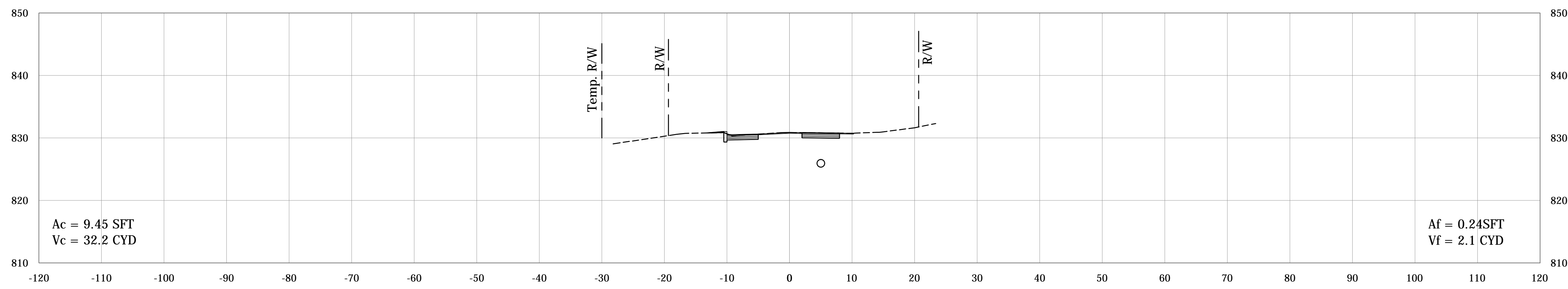
S-1-PR-B
102+50.00



S-1-PR-B
102+00.00



S-1-PR-B
101+50.00



PLOTTED: Friday, December 21, 2018 7:05:38 PM

FILE: RD_CORRIDOR_2.DWG

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: BSF _____	DRAWN: JAF _____		
CHECKED: BSF _____	CHECKED: LAR _____		

CITY OF BLOOMINGTON	
CROSS SECTIONS	

SCALE	BRIDGE FILE
1"=10'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	100 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION