PROJECT	DESIGNATION
1401286	1401286
CONTRACT	
R-37917	

INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS

PROJECT NO.

1401286 P.E.
1401286 R/W
1401286 CONST.

New trail construction along Kingston Drive from
Salisbury Street to Rose Street, in Sections 17 and 18, T-23-N, R-4-W,
Wabash Township, Tippecanoe County, Indiana

CITY OF WEST LAFAYETTE

HON. JOHN DENNIS — DATE
MAYOR

ED GARRISON — DATE
PUBLIC WORKS DIRECTOR, E.R.C.

BOARD OF PUBLIC WORKS AND SAFETY

SANA G. BOOKER — DATE
PRESIDENT

BRADLEY L. COHEN — DATE
MEMBER

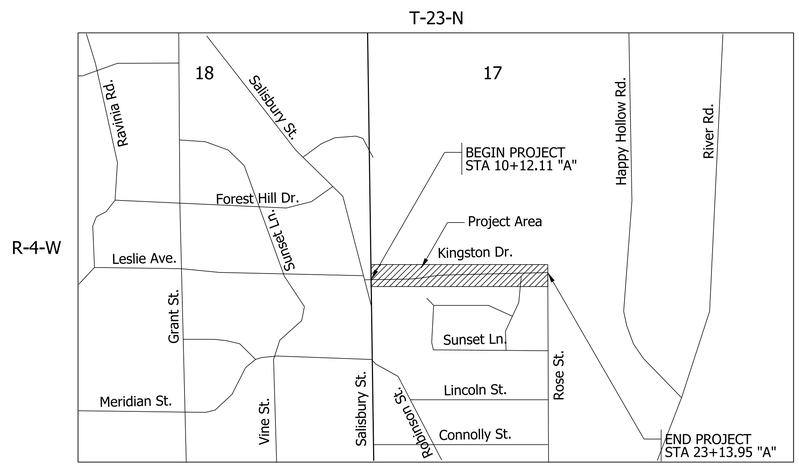
BROOKE E. FOLKERS — DATE
MEMBER

JASON D. HUBER — DATE
MEMBER

THOMAS J. KENT — DATE
MEMBER

ATTESTED BY:

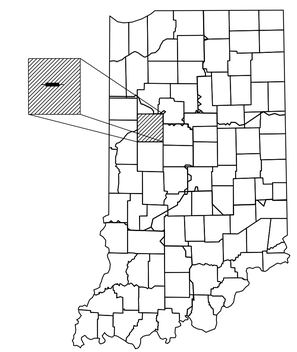
NICHOLE A. FOSTER — DATE
DEPUTY CLERK



SCALE: 1" = 500'

TRAFFIC DATA - N/A Trail Only		
A.A.D.T.	( )	V.P.D.
A.A.D.T.	( )	V.P.D.
D.H.V	( )	V.P.H.
DIRECTIONAL DISTRIBUTION		%
TRUCKS		% A.A.D.T.
		% D.H.V.

DESIGN DATA - N/A Trail Only	
DESIGN SPEED	20 M.P.H.
PROJECT DESIGN CRITERIA	NEW CONSTRUCTION
FUNCTIONAL CLASSIFICATION	SHARED-USE PATH
RURAL/URBAN	URBAN
TERRAIN	LEVEL
ACCESS CONTROL	NONE



PROJECT LOCATION SHOWN BY
TIPPECANOE

LATITUDE: 40°26'12" N LONGITUDE: 86°54'14" W

GROSS LENGTH: 0.25 MI.
NET LENGTH: 0.25 MI.
MAX. GRADE: 4.99% %

HUC: 05120108010040

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2016
TO BE USED WITH THESE PLANS

WSP | PARSONS BRINCKERHOFF

PLANS PREPARED BY: WSP | PARSONS BRINCKERHOFF — 317-972-1706 PHONE NUMBER

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

CERTIFIED BY: — DATE

APPROVED FOR LETTING: — DATE
INDIANA DEPARTMENT OF TRANSPORTATION

DESIGNATION
1401286

SURVEY BOOK	SHEETS
	1 of 32
CONTRACT	PROJECT
R-37917	1401286

Plot: 10/21/2016 3:44 PM
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UTILITIES

Duke Energy
Brian Funk
764-454-6175

Indiana American
Jacquelynne Sanders
555 E. County Line Rd.
Suite 201
Greenwood, IN 46143
317-885-2444

Comcast
Jack Parker
325 S. Creasy Lane
Lafayette, IN 47905
574-930-0735

Indiana Dataline
Mike Wehr
427 N. 6th St.
Lafayette, IN 47901
765-414-5690

Frontier
Ted Foster
3216 Imperial Parkway
Lafayette, IN 47900
764-423-3531

Vectren
Steve Hinton
3419 Rascal Drive
Lafayette, IN 47909
812-774-5902

West Lafayette
Victor Van Allen
500 S. River Road
West Lafayette, IN 47906
764-430-2795

GENERAL NOTES

X	All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.
	The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
	The paper relocation will be cross sectioned by the Engineer before construction.
	Existing asphalt pavement located outside the construction limits, between Sta. ___ and Sta. ___ shall be removed as directed.
	The quantity of peat excavation shown on the plans has been estimated on the basis of theoretical cross sections by using treatment of existing fills, treatment by removal, or treatment by displacement, where each treatment applies.

X Represents General Notes to be included in the Project.

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE
2	INDEX AND GENERAL NOTES
3	TYPICAL CROSS SECTIONS
4	MOT TYPICAL CROSS SECTION
5	MOT DETAIL SHEET
6-11	PLAN/PROFILE SHEETS
12-16	INTERSECTION DETAIL SHEETS
17	PAVEMENT MARKING AND SIGNS SHEET
18	EROSION CONTROL PLAN SHEET
19	MISCELLANEOUS SUMMARY TABLES
20	STRUCTURE DATA TABLE
21-32	ROADWAY CROSS SECTIONS

REVISIONS

SHEET NO.	DATE	REVISED

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JLB
CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

INDEX AND GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1401286
SURVEY BOOK	SHEETS
	2 of 32
CONTRACT	PROJECT
R-37917	1401286

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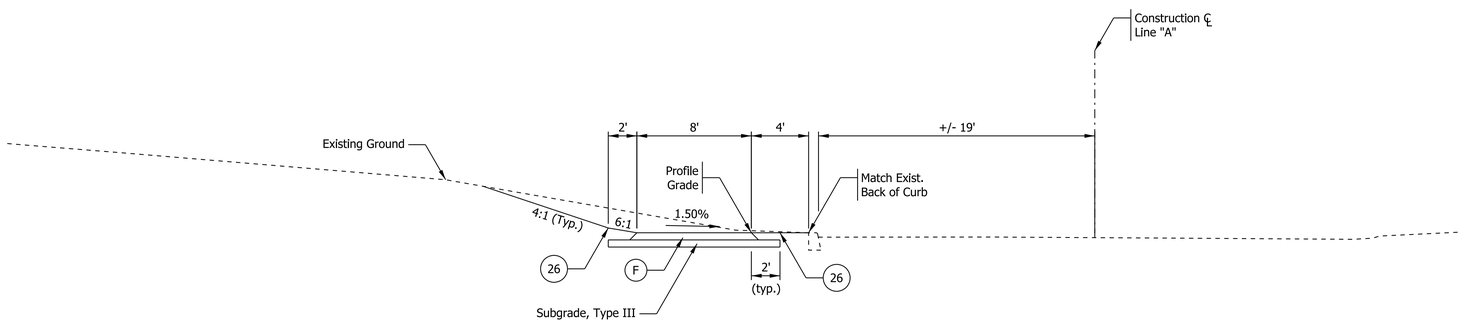
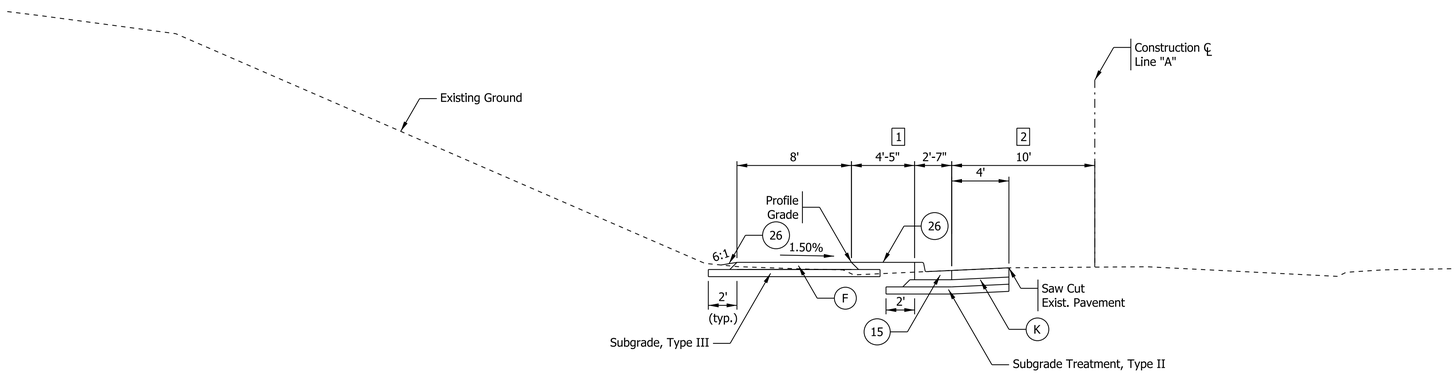


TYPICAL CROSS SECTION - KINGSTON DR.

Sta. 10+12.11 "A" to Sta. 11+74.58 "A"



TYPICAL CROSS SECTION - KINGSTON DR.

Sta. 11+74.58 "A" to Sta. 23+13.95 "A"

1 4' - Sta. 11+74.58 to 12+18.90 "A"

2 Varies from 17.3' to 10'
Sta. 11+74.58 to 12+74.73 "A"

Pavement Sections

(F) HMA For Sidewalk

165#/SYD HMA Surface, Type B on
275#/SYD HMA Intermediate, Type B on
6" Compacted Aggregate, No 53, Base on
Subgrade Treatment, Type III

(K) HMA Patching, Type B (1320 #/SYD)

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

(M) HMA for Approaches, Type B (1320 #/SYD)

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

HMA for Structure Installation, Type B (1320 #/SYD)

165#/SYD HMA Surface, Type B on
275#/SYD HMA Intermediate, Type B on
880#/SYD HMA Base, Type B

NOTE TO REVIEWER: Pavement design has been submitted to INDOT and is currently being reviewed. Any changes will be incorporated at tracings submittal.

LEGEND:

(15) Curb and Gutter, Concrete
(26) Nursery Sod
(F) HMA for Sidewalk
(K) HMA Patching, Type B
(M) HMA for Approaches, Type B

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JLB
CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	
VERTICAL SCALE	DESIGNATION
1"=5'	1401286
SURVEY BOOK	SHEETS
	3 of 32
CONTRACT	PROJECT
R-37917	1401286

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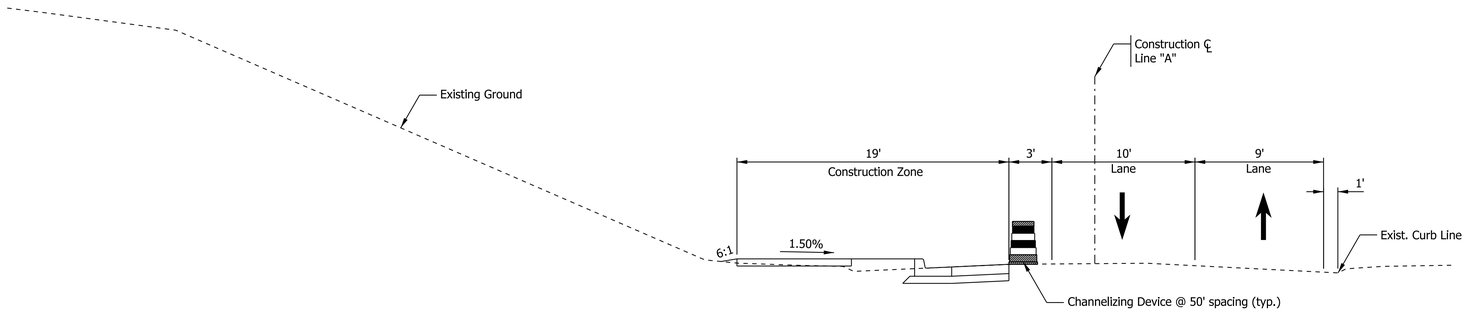

MOT TYPICAL CROSS SECTION - KINGSTON DR.

Plot: 10/21/2016 3:06 PM

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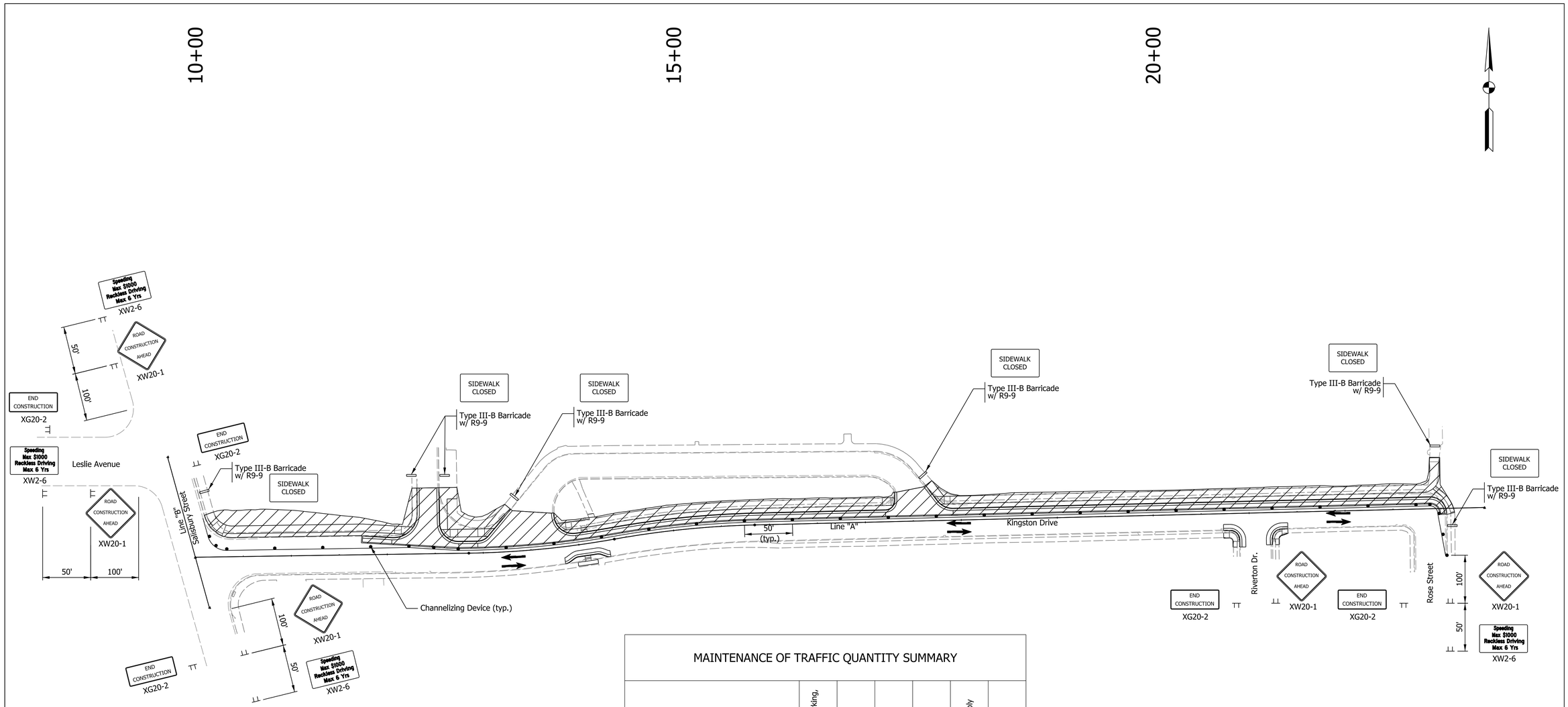
RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE		CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE: 1" = 5' VERTICAL SCALE: 1" = 5' BRIDGE FILE: DESIGNATION: 1401286
DESIGNED: JLB	DRAWN: JLB	MAINTENANCE OF TRAFFIC TYPICAL CROSS SECTIONS	SURVEY BOOK: SHEETS: 4 of 32
CHECKED: PJM	CHECKED: PJM		CONTRACT: R-37917 PROJECT: 1401286



MAINTENANCE OF TRAFFIC QUANTITY SUMMARY

Location (Phase)	Temporary Pavement Marking, Removable, 4 In.	Construction Sign, A	Construction Sign, B	Construction Sign, C	Road Closure Sign Assembly	Barricade, Type III-B
	Ft	Each	Each	Each	Each	LFT
Kingston Drive	0	10	7	4	7	70
Totals	0	10	7	4	7	70

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. Access to properties shall be maintained at all times.
2. Sidewalk shall not be under construction on north and south side of Kingston Drive simultaneously to allow for pedestrian access through the work zone.
3. Contractor shall utilize flagger operations during construction of curb/sidewalk on south side of Kingston Drive and construction of storm pipes crossing Kingston Drive to allow for single lane two-way traffic through the specific work zones.

LEGEND

- Construction Area
- TT Typical Sign Standard
- Traffic Flow

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JLB
CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

MAINTENANCE OF TRAFFIC
DETAIL SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
N/A	1401286
SURVEY BOOK	SHEETS
	5 of 32
CONTRACT	PROJECT
R-37917	1401286

Plot: 10/21/2016 3:06 PM
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Sec. 18, T. 23 N., R. 4 W.
Wabash Township
Tippecanoe County

Sec. 17, T. 23 N., R. 4 W.
Wabash Township
Tippecanoe County

10+00 | 11+00 | 12+00 | 13+00 | 14+00

+01.06, 72.3 Inlt.
+13.86, 4.0 W. V.
+16.74, 32.0 Ped. Sig.
+34.83, 58.7 Priv. Sign
+37.17, 28.1 Rd. Sign
+39.32, 47.8 Mon.
+39.76, 18.3 Inlt.
+43.60, 60.6 Priv. Sign
+47.10, 62.1 Tree
+07.39, 26.5 Pvp. (Light)
+16.02, 71.6 Tree
+21.20, 44.0 Rd. Sign
+28.33, 26.5 Inlt.
+45.35, 2.7 Storm Mh.
+68.18, 3.8 W. V.
+78.21, 44.6 Rd. Sign
+85.76, 106.7 Tree
+88.29, 21.3 C. B.
+94.27, 72.5 Tree
+17.18, 25.2 Mon.
+21.04, 49.7 Rd. Sign
+35.73, 106.4 Tree
+41.75, 94.3 Tree
+51.26, 112.0 Tree
+55.61, 80.3 Rd. Sign
+79.96, 42.0 Rd. Sign
+96.05, 48.8 Tree
+10.10, 25.9 Ped. Sig.
+25.25, 60.1 Tree
+34.75, 52.8 Tree
+40.05, 31.3 Tree

CURVE DATA
PI = 13+61.46 "A"
Delta = 9°19'00" LT
D = 6°06'30"
R = 938.00'
T = 76.43'
L = 152.53'
E = 3.11'

Str. 106
12+88.29 "A" (21.3' LT)
Furnish and install Type 4 casting and adjust to grade.
Remove 44 LFT of exist. pipe.
Install 44 LFT of 12" type 2 pipe.
Connect to Str. 105

Str. 103
12+28.33 "A" (26.5' LT)
Existing Inlet
Adjust casting to grade

Temp. R/W for Drive Construction
Sta. 12+43.42
Class IV Drive, Mod.
W = 18.2', L = 60.2'

WEST LAFAYETTE COMMUNITY SCHOOL CORPORATION

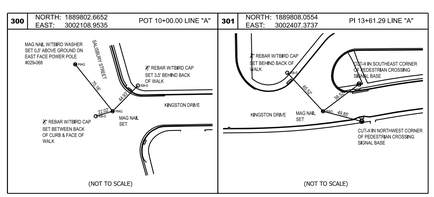
Temp. R/W for Grading & Drive Construction

Sta. 13+54.13
Class IV Drive, Mod.
W = 40.7', L = 33.6'

App. PL
App. Sec. Line
Exist. R/W
(Grass)
Salisbury Street
Line "B"
N 15°29'57" W
75°21'19"
P.O.T. Sta. 10+00.00 "A" =
P.O.T. Sta. 20+00.00 "B"
+ Exist. R/W 45'
+ Exist. R/W 55'
+40.00 35'
+00.00 55'
Const. Limits
+75.00 35'
+10.00 R/W
35' R/W
+75.00 75'
Const. Limits +00.00 45'
+25.00 55'
+85.00 40'
+90.00 30'
+P.C.
Exist. R/W
R 20'
R 25'
R 15'
(Sidewalk)
(Asphalt)
+74.58
Begin Taper
N 89°08'44" E
Kingston Drive
Line "A"
+74.73
End Taper
N 79°49'44" E
Str. 301
+82.00 (10' LT)
Manhole C-4 w/ 87 LFT of 12" Type 2 pipe.
Connect to Str. 300
Const. Limits
+31.00
End Curb & Gutter Const.
App. PL
15' Easement
Begin Project
Sta. 10+12.11 "A"
Str. 100
10+39.76 "A" (18.3' LT)
Existing Inlet
Str. 101
10+35.74 "A" (0.4' RT)
Existing Manhole
Str. 102
10+45.13 "A" (26.2' RT)
Existing Inlet
TBM #99
Chisel "X" in NW
Hex bolt of F.H.
Str. 105
12+45.35 "A" (2.7' LT)
Existing Manhole
Str. 104
12+43.84 "A" (18.6' RT)
Existing Inlet
200 KINGSTON, LLC
10' Easement
5' Utility Easement
Str. 302
+82.00 (15.8' RT)
Inlet B-15 w/ 24 LFT of 12" Type 2 pipe
Connect to Str. 301
STEPHEN FRANK GOODING
Str. 300
+90.00 (10' LT)
Inlet C-15 w/ 8 LFT of 12" Type 2 pipe.
Connect to Str. 106
+84.01
Begin Curb & Gutter Const.
App. PL
10' Easement

+22.35, 21.4 W. V.
+35.74, 0.4 San. Mh.
+45.13, 26.2 Inlt.
+01.20, 16.9 W. V.
+06.82, 12.9 W. V.
+07.69, 26.7 F. Hyd.
+43.84, 18.6 Inlt.
+88.22, 30.3 Pvp. (Light)
+41.82, 23.5 W. Meter
+01.01, 23.3 Ped. Sig.

1. All topographic information described from Line "A". All R/W described from Line "A", unless otherwise noted.
2. See Typical Section sheet for pavement sections.



LEGEND

(15) Curb and Gutter, Concrete	(F) HMA for Sidewalk	HMA For Structure Installation, Type B (1320 #/SYD)
(26) Nursery Sod	(K) HMA Patching, Type B	
(F1) Sidewalk, Concrete	(M) HMA for Approaches, Type B	(CR) Curb Ramp, Concrete

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JLB
CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

PLAN SHEET
STA. 10+00.00 TO 14+50.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	1401286
SURVEY BOOK	SHEETS
	6 of 32
CONTRACT	PROJECT
R-37917	1401286

Plot: 10/21/2016 3:06 PM
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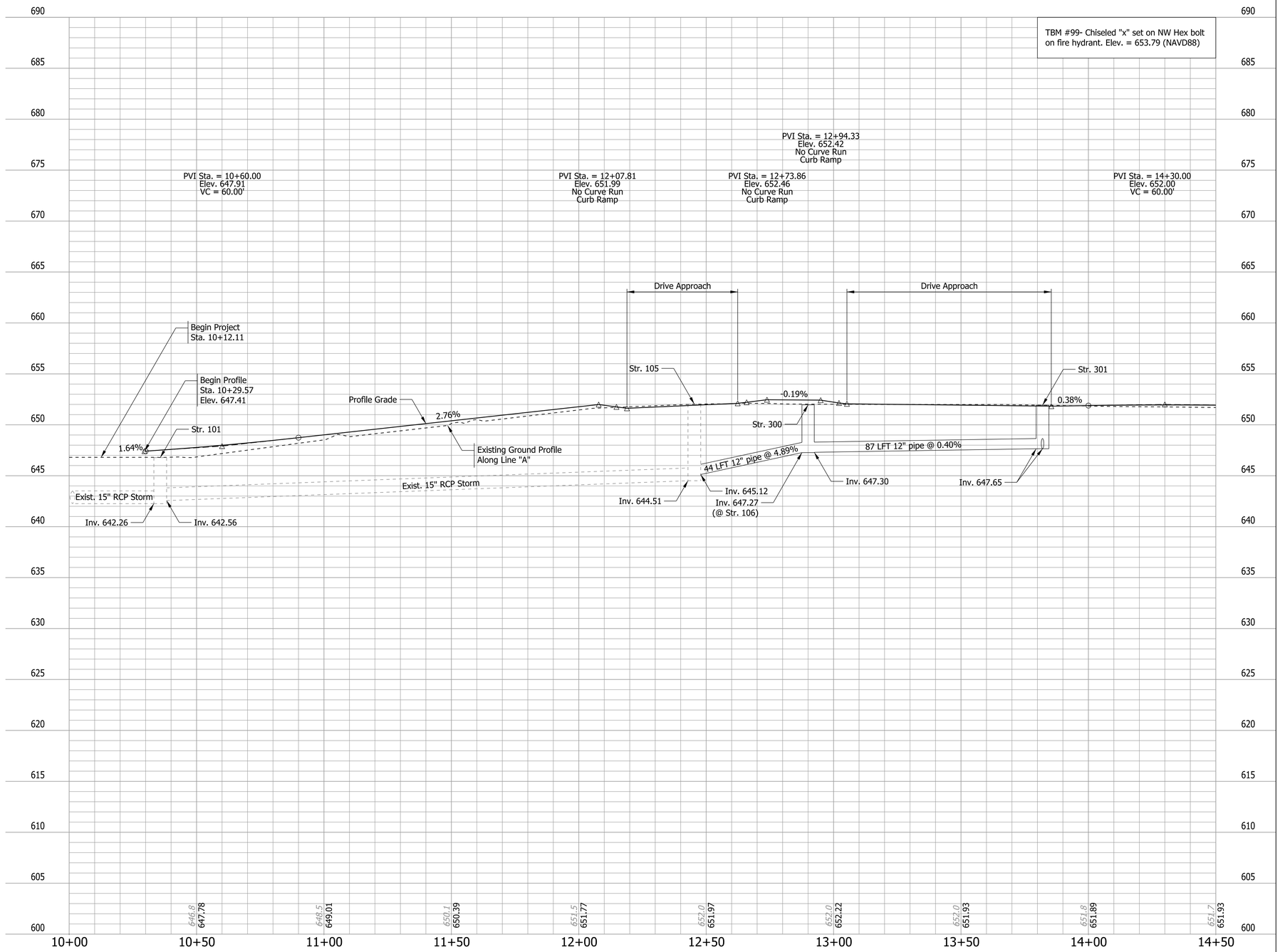

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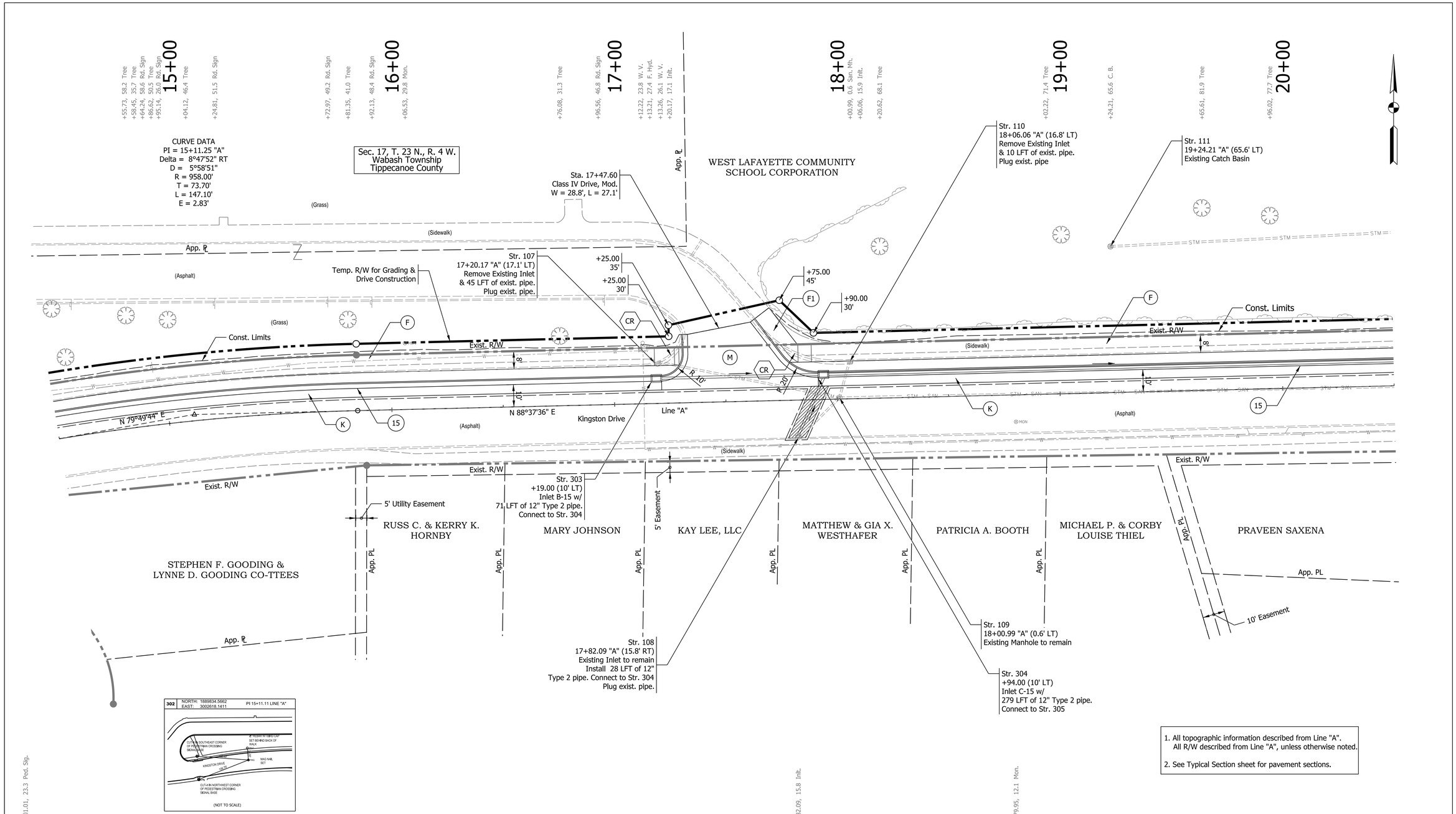
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE: 1" = 20'	BRIDGE FILE
		VERTICAL SCALE: 1" = 5'	DESIGNATION: 1401286
DESIGNED: JLB / DRAWN: JLB	PROFILE SHEET STA. 10+00.00 TO 14+50.00 "A"	SURVEY BOOK	SHEETS: 7 of 32
CHECKED: PJM / CHECKED: PJM		CONTRACT: R-37917	PROJECT: 1401286



1. All topographic information described from Line "A". All R/W described from Line "A", unless otherwise noted.

2. See Typical Section sheet for pavement sections.

LEGEND

15	Curb and Gutter, Concrete	F	HMA for Sidewalk		HMA For Structure Installation, Type B (1320 #/SYD)
26	Nursery Sod	K	HMA Patching, Type B		
F1	Sidewalk, Concrete	M	HMA for Approaches, Type B	CR	Curb Ramp, Concrete

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JLB

CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

PLAN SHEET
STA. 14+50.00 TO 20+50.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	1401286
SURVEY BOOK	SHEETS
	8 of 32
CONTRACT	PROJECT
R-37917	1401286

Plot: 10/21/2016 3:07 PM

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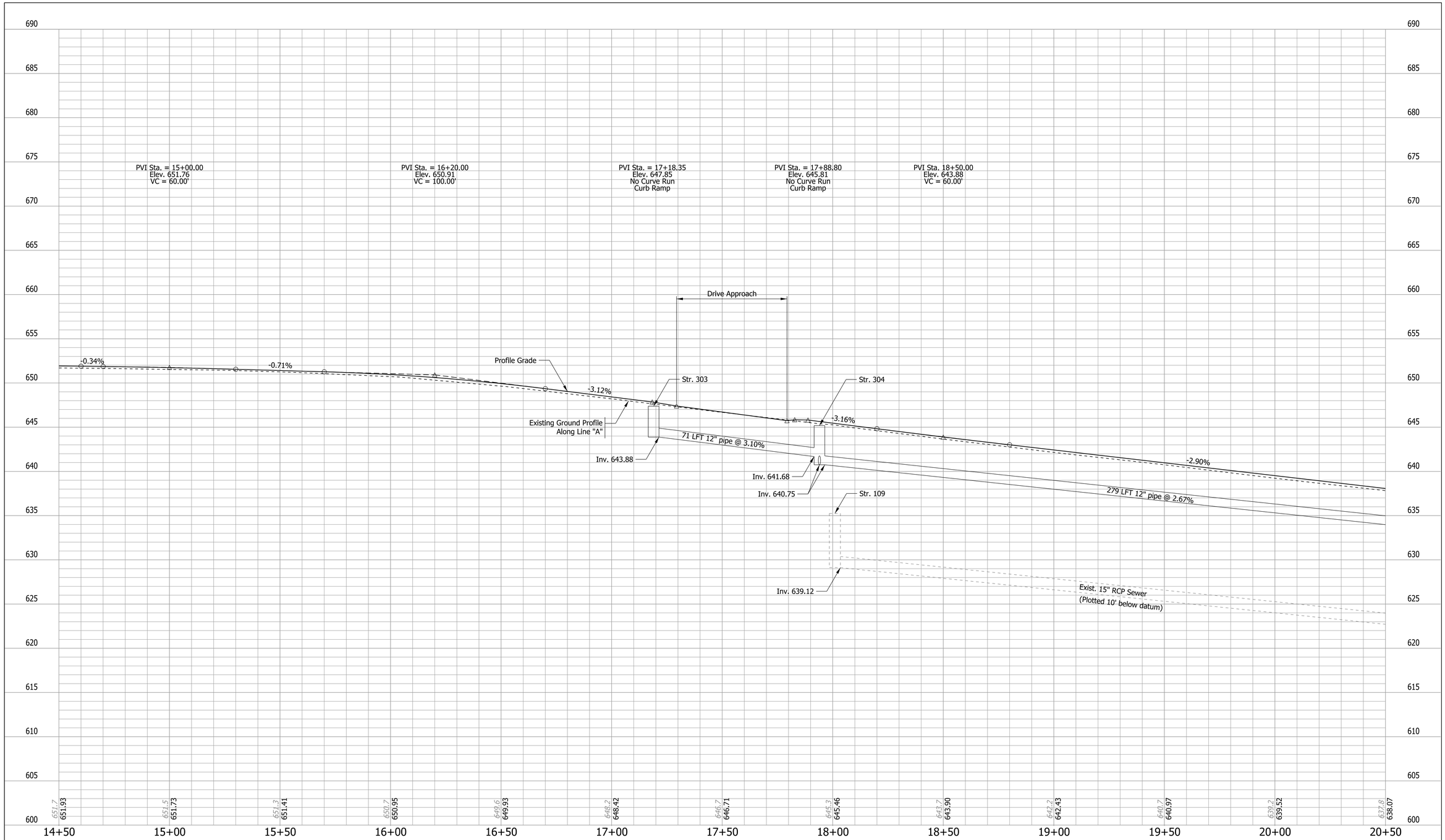

Plot: 10/21/2016 3:07 PM

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

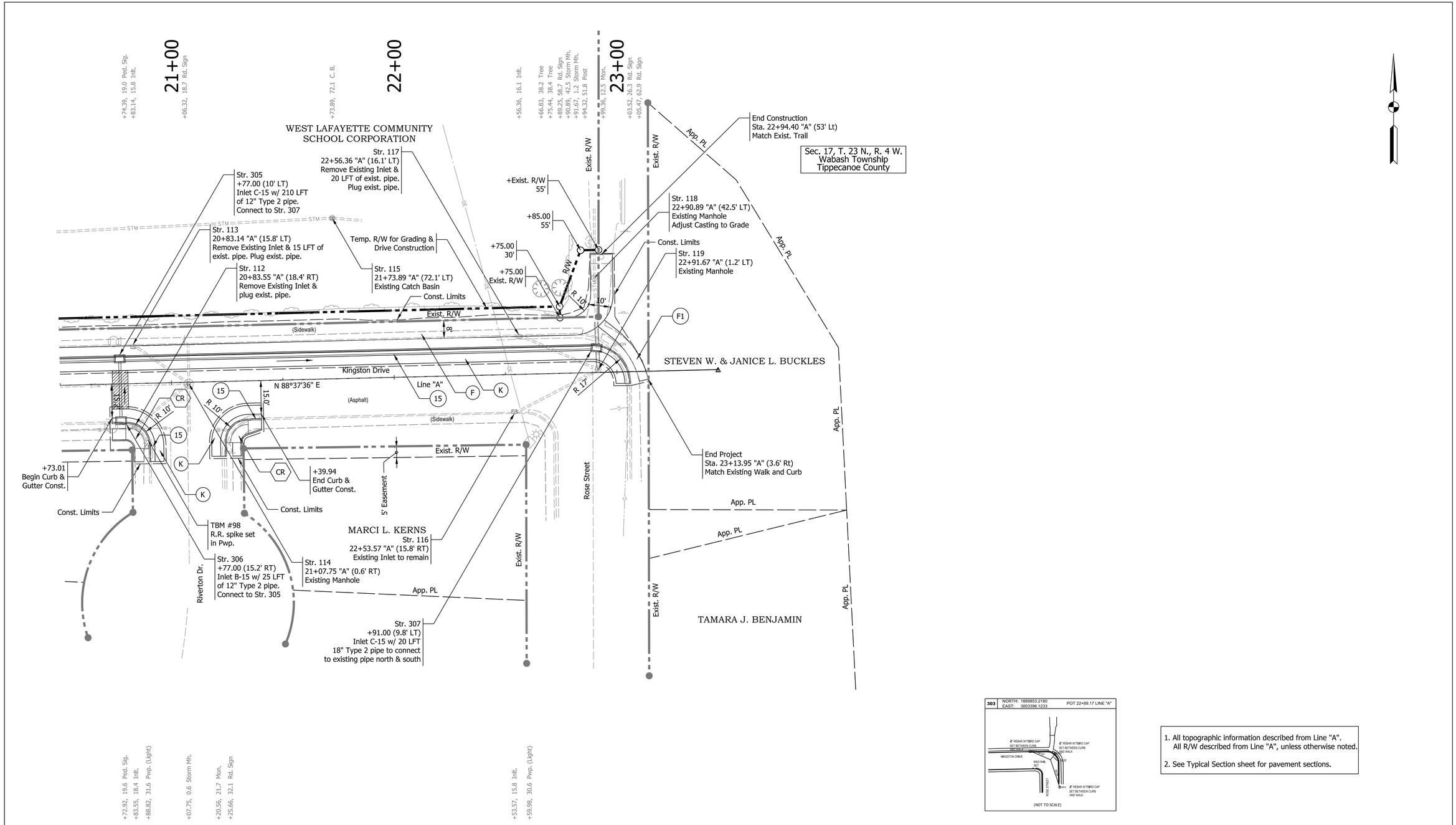
DESIGNED: JLB DRAWN: JLB

CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

PROFILE SHEET
STA. 14+50.00 TO 20+50.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1401286
SURVEY BOOK	SHEETS
	9 of 32
CONTRACT	PROJECT
R-37917	1401286



1. All topographic information described from Line "A". All R/W described from Line "A", unless otherwise noted.
2. See Typical Section sheet for pavement sections.

LEGEND

15	Curb and Gutter, Concrete	F	HMA for Sidewalk		HMA For Structure Installation, Type B (1320 #/SYD)
26	Nursery Sod	K	HMA Patching, Type B		
F1	Sidewalk, Concrete	M	HMA for Approaches, Type B	CR	Curb Ramp, Concrete

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JLB
CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

PLAN SHEET
STA. 20+50.00 TO 23+00.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	1401286
SURVEY BOOK	SHEETS
	10 of 32
CONTRACT	PROJECT
R-37917	1401286

Plot: 10/21/2016 3:07 PM
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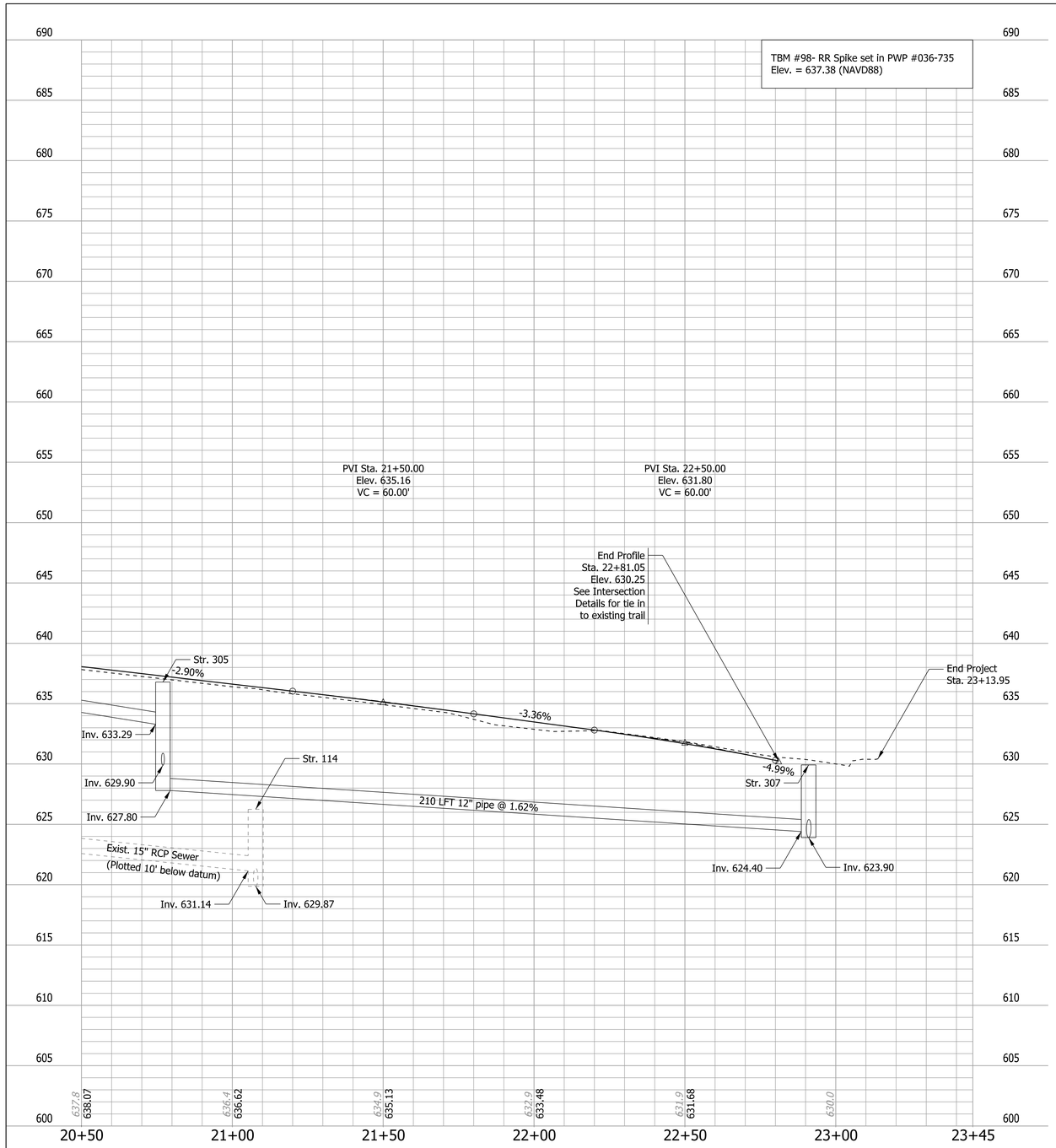

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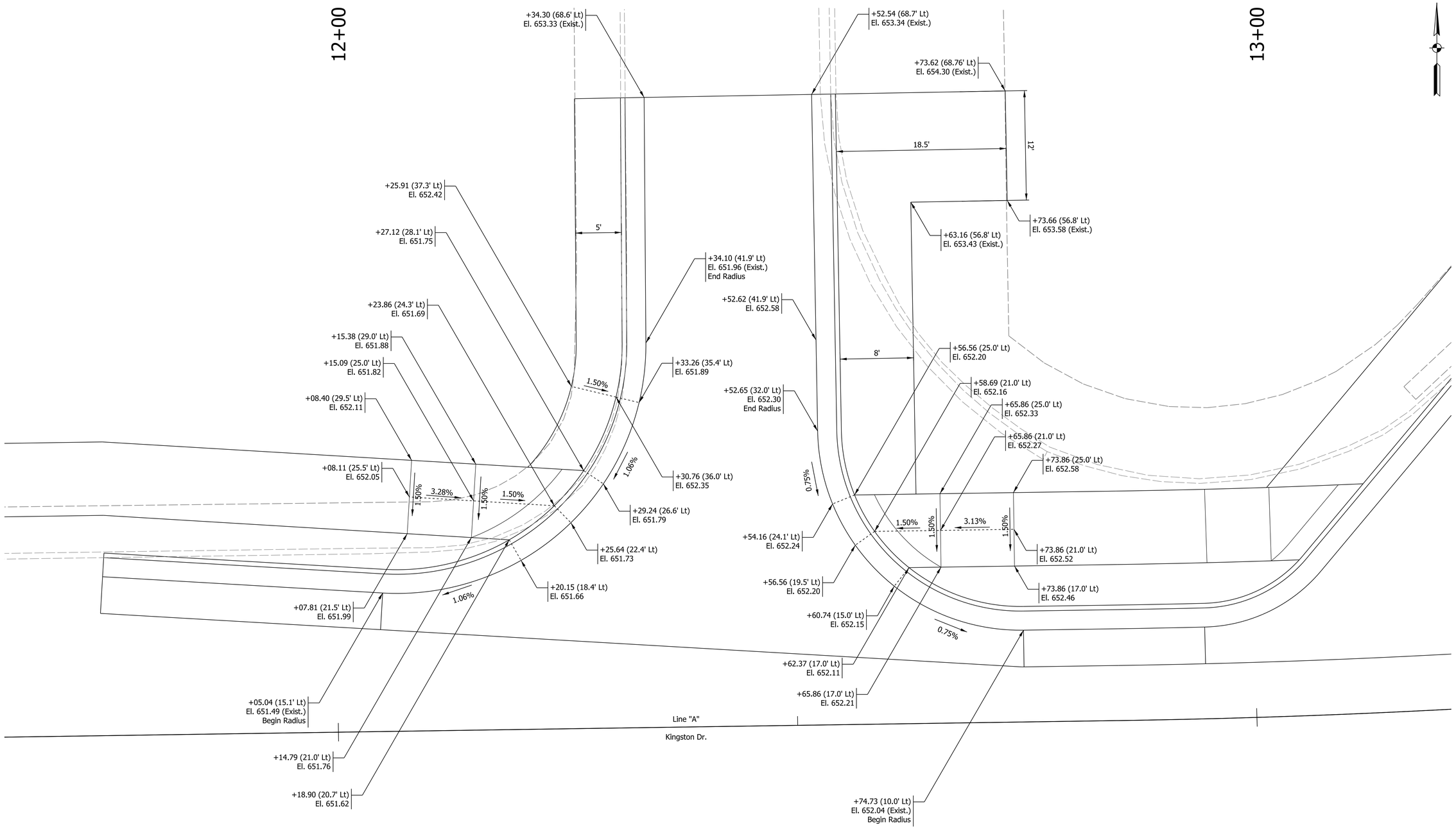
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
		VERTICAL SCALE 1" = 5'	DESIGNATION 1401286
DESIGNED: JLB DRAWN: JLB	PROFILE SHEET STA. 20+50.00 TO 23+00.00 "A"	SURVEY BOOK	SHEETS 11 of 32
CHECKED: PJM CHECKED: PJM		CONTRACT R-37917	PROJECT 1401286



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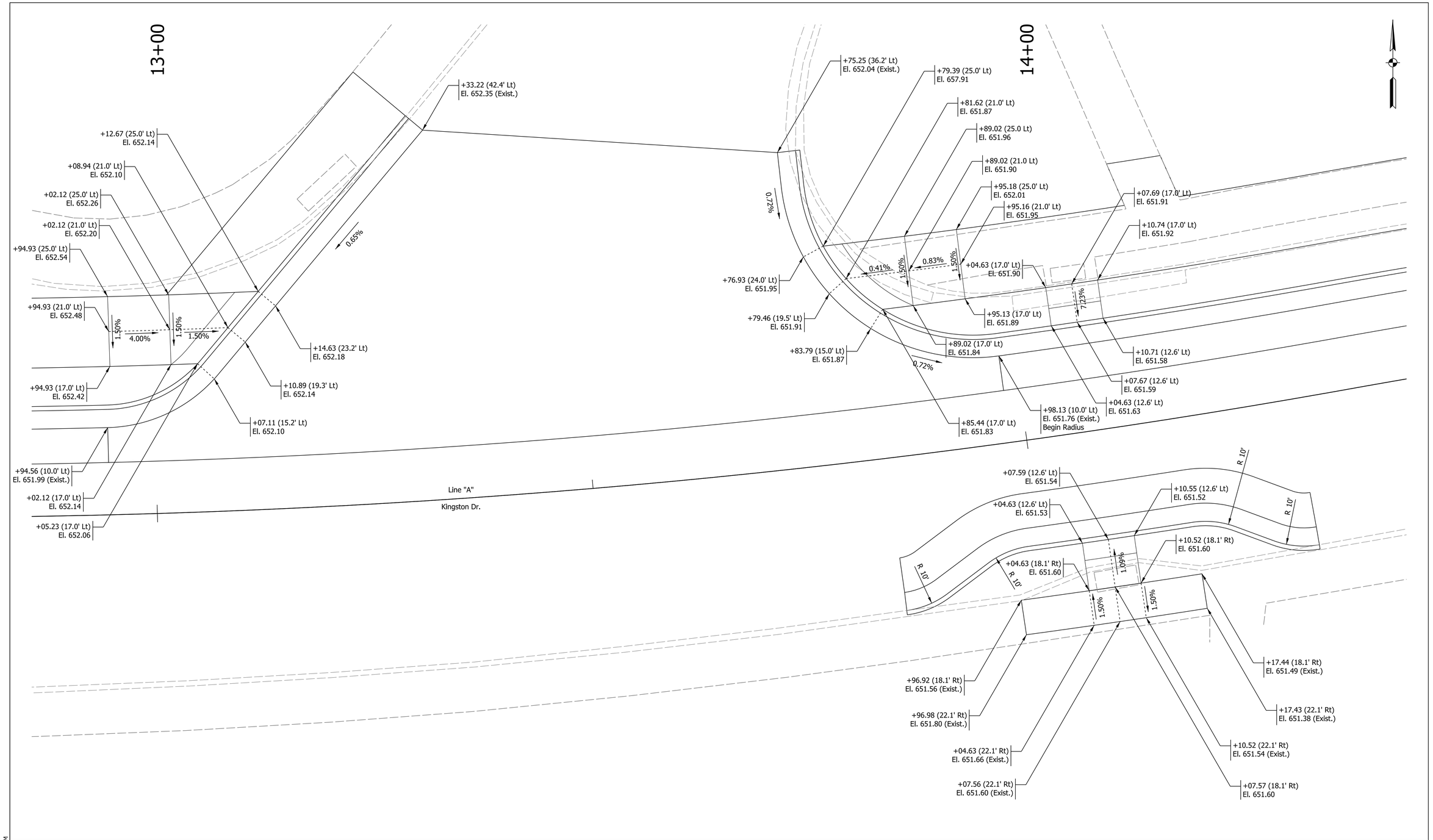
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE: 1" = 5'	BRIDGE FILE
		VERTICAL SCALE: N/A	DESIGNATION: 1401286
DESIGNED: JLB / DRAWN: JLB	INTERSECTION DETAIL SHEET	SURVEY BOOK	SHEETS: 12 of 32
CHECKED: PJM / CHECKED: PJM		CONTRACT: R-37917	PROJECT: 1401286



Plot: 10/21/2016 3:07 PM

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RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

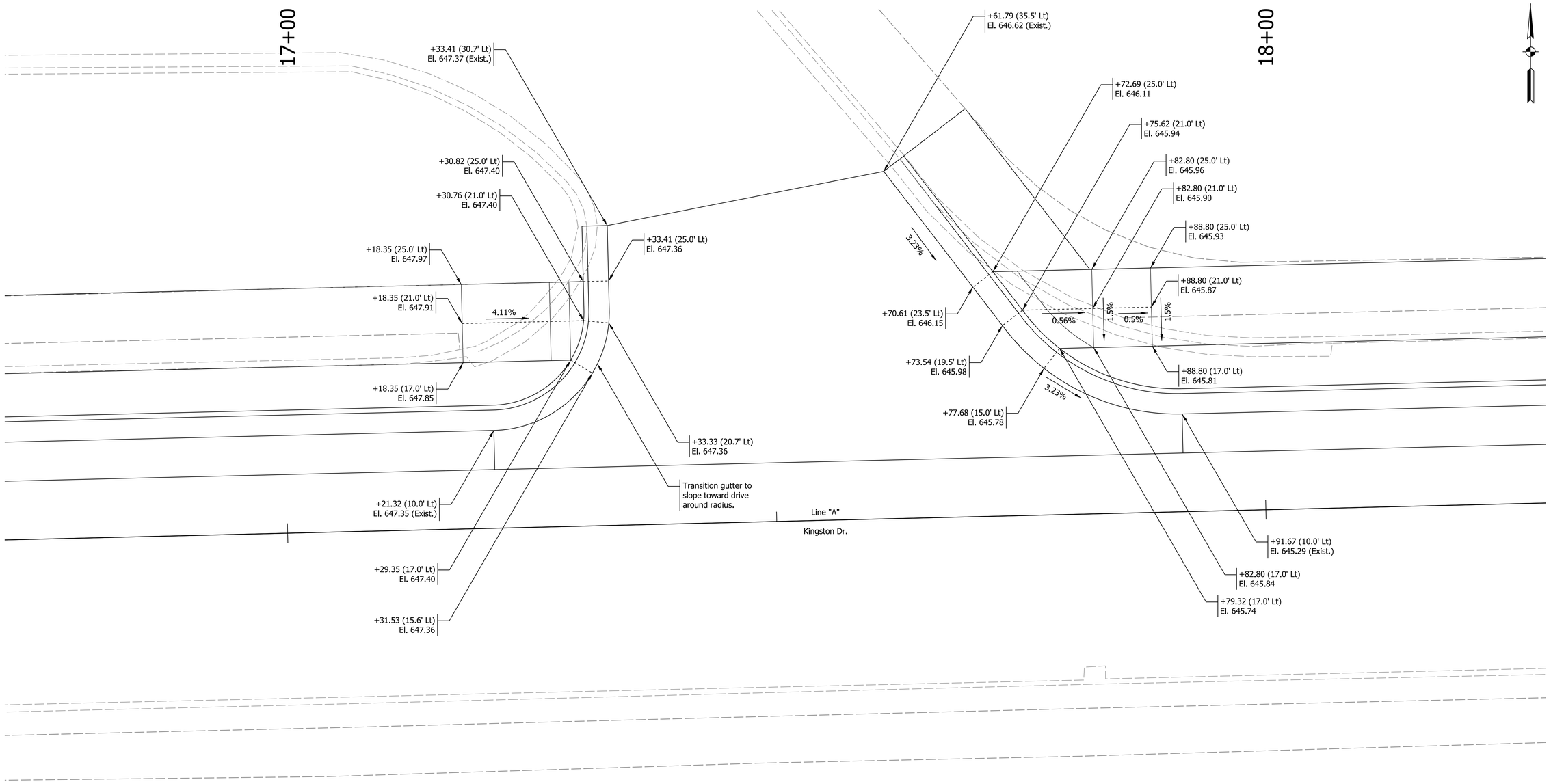
DESIGNED: JLB DRAWN: JLB

CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

INTERSECTION DETAIL SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
N/A	1401286
SURVEY BOOK	SHEETS
	13 of 32
CONTRACT	PROJECT
R-37917	1401286



Plot: 10/21/2016 3:07 PM

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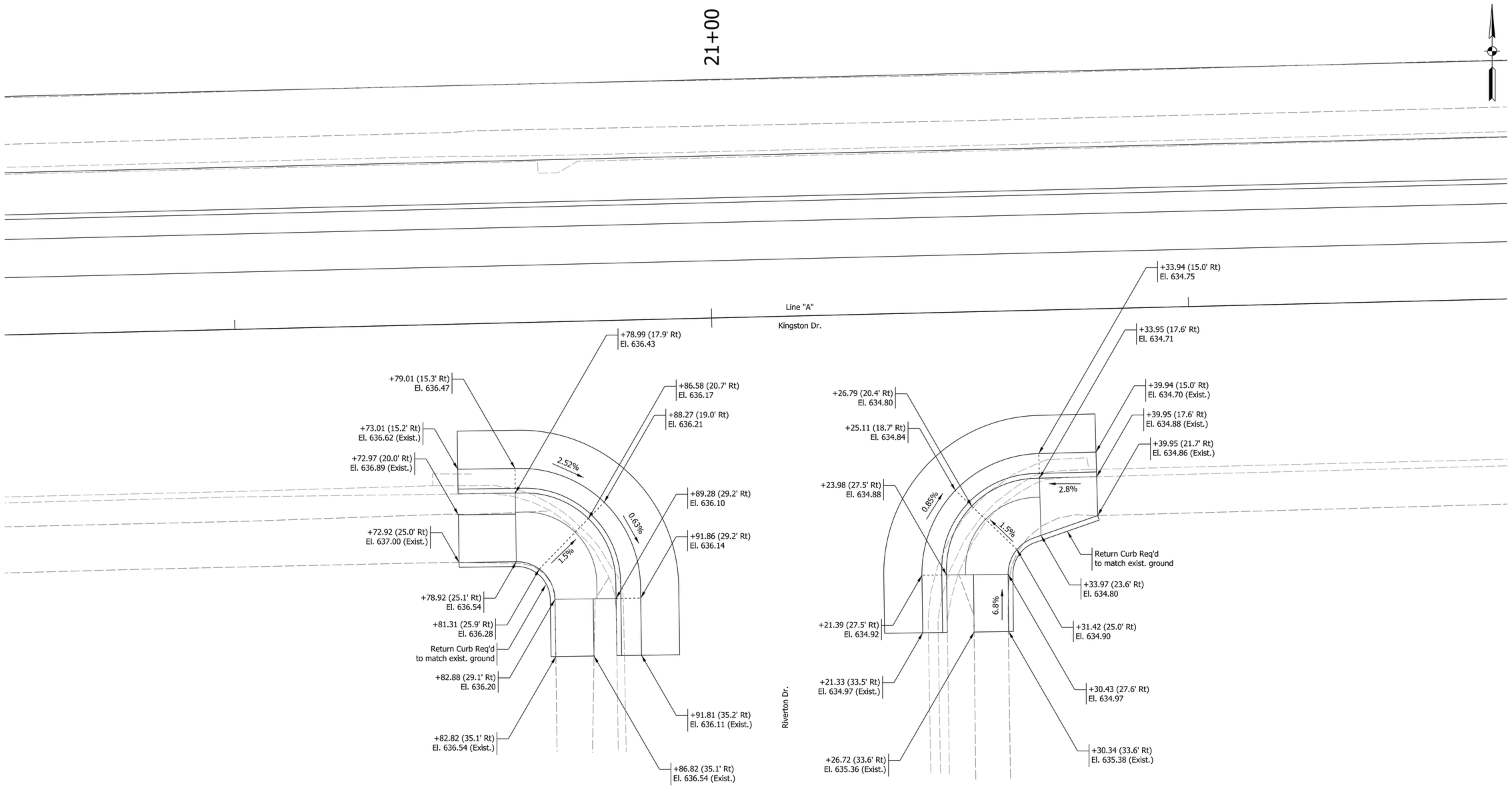
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE: 1" = 5'	BRIDGE FILE
		VERTICAL SCALE: N/A	DESIGNATION: 1401286
DESIGNED: JLB / DRAWN: JLB	INTERSECTION DETAIL SHEET	SURVEY BOOK	SHEETS: 14 of 32
CHECKED: PJM / CHECKED: PJM		CONTRACT: R-37917	PROJECT: 1401286



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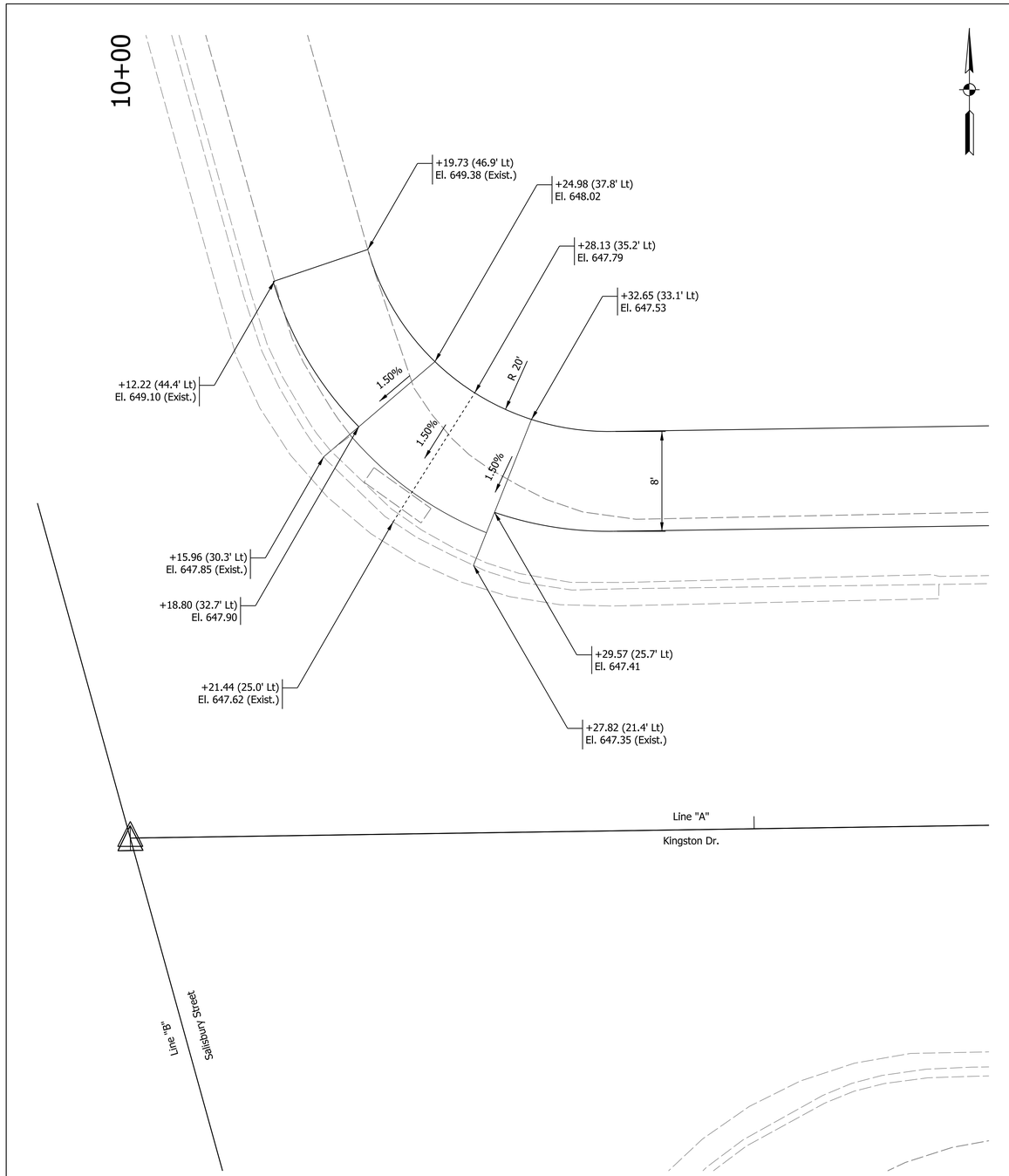
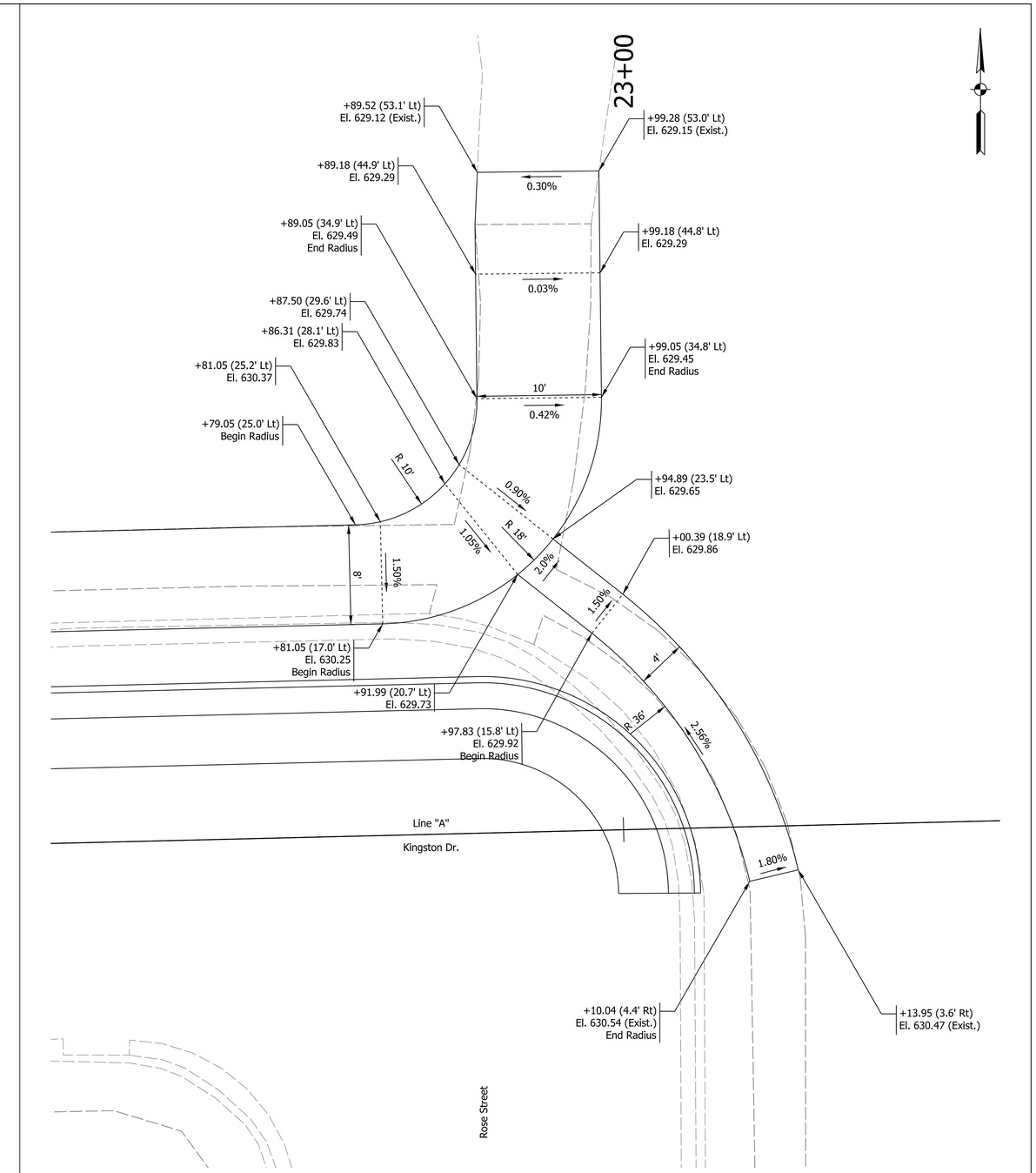
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE: 1" = 5'	BRIDGE FILE
		VERTICAL SCALE: N/A	DESIGNATION: 1401286
DESIGNED: JLB / DRAWN: JLB	INTERSECTION DETAIL SHEET	SURVEY BOOK	SHEETS: 15 of 32
CHECKED: PJM / CHECKED: PJM		CONTRACT: R-37917	PROJECT: 1401286





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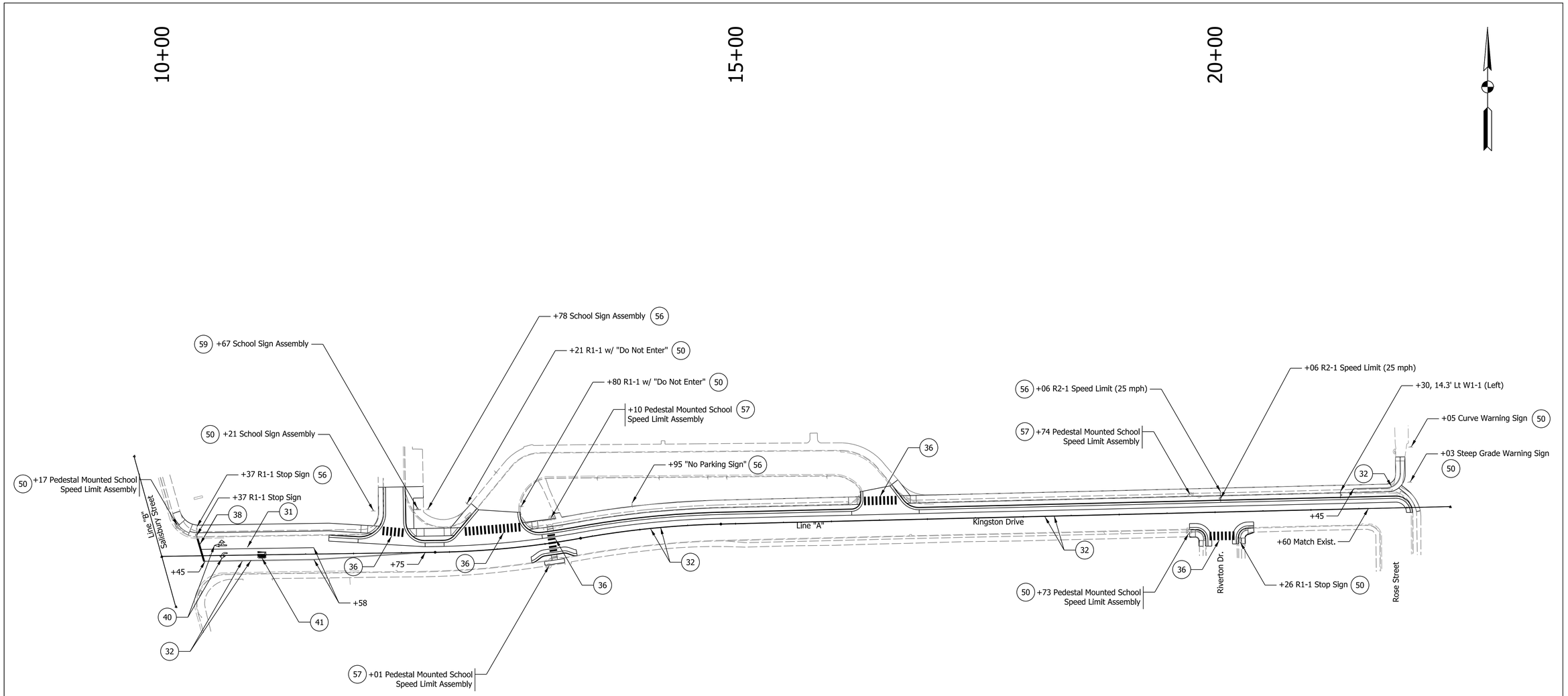
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE: 1" = 5'	BRIDGE FILE
		VERTICAL SCALE: N/A	DESIGNATION: 1401286
DESIGNED: JLB / DRAWN: JLB	INTERSECTION DETAIL SHEET	SURVEY BOOK	SHEETS: 16 of 32
CHECKED: PJM / CHECKED: PJM		CONTRACT: R-37917	PROJECT: 1401286



SIGN/PAVEMENT MARKING GENERAL NOTES

1. Removal of existing foundations for existing Pedestal Mounted School Speed Limit Assembly shall be included in the cost of "Sign, Sheet, Assembly Relocate".

LEGEND

31	Line, Thermoplastic, Solid, White, 4 in.
32	Line, Thermoplastic, Solid, Yellow, 4 in.
36	Transverse Marking, Thermoplastic, Crosswalk Line, 24 in.
38	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
40	Pavement Message Marking, Thermoplastic, Lane Indication Arrow
41	Pavement Message Marking, Thermoplastic, Only
50	No Change Required to Existing Sign and Supports
56	Sign, Sheet and Supports, Remove
57	Sign, Sheet, Assembly Relocate
59	Existing Sheet Sign on New Supports

Plot: 10/21/2016 3:07 PM

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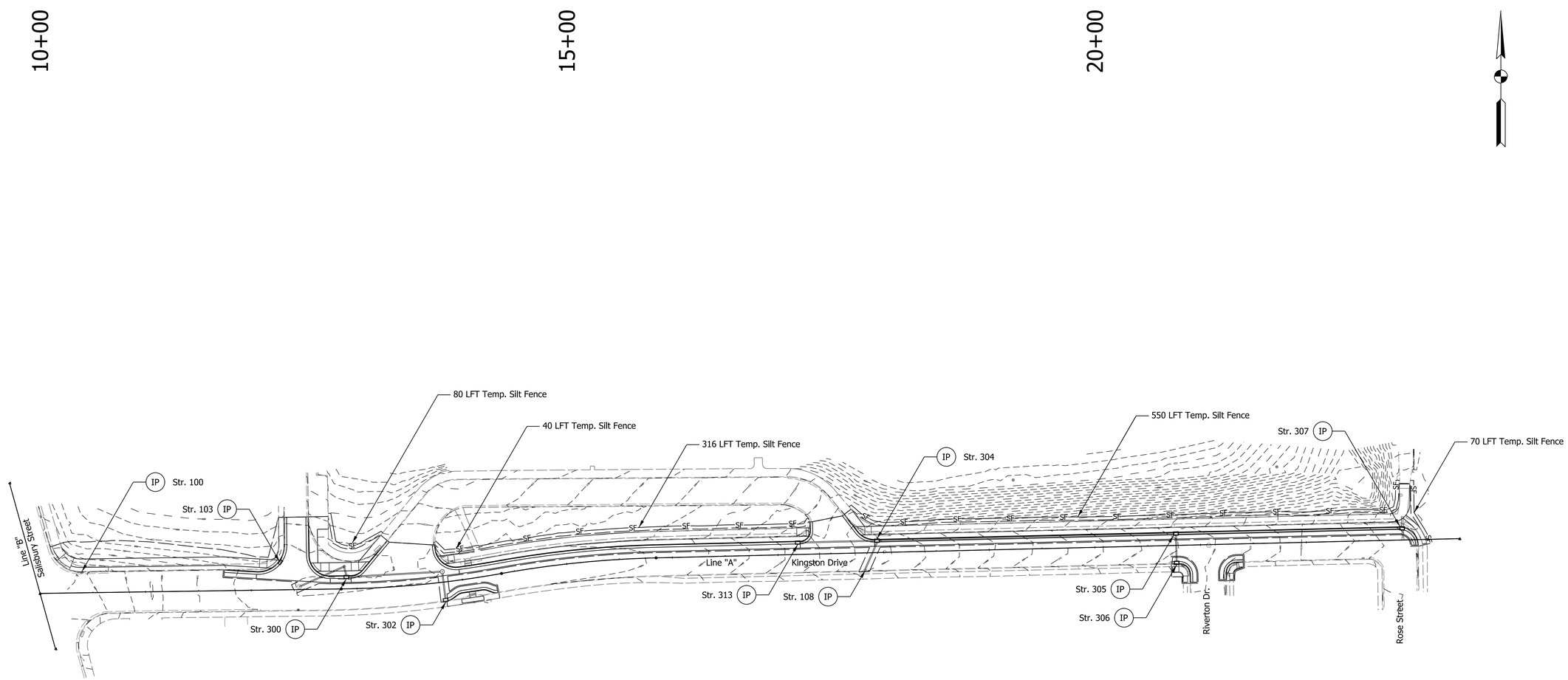
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JLB
CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

PAVEMENT MARKING AND SIGNS SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
N/A	1401286
SURVEY BOOK	SHEETS
	17 of 32
CONTRACT	PROJECT
R-37917	1401286



LEGEND

SF — Temp. Silt Fence

IP — Temp. Inlet Protection

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE: 1" = 50'	BRIDGE FILE
		VERTICAL SCALE: N/A	DESIGNATION: 1401286
DESIGNED: JLB / DRAWN: JLB	EROSION CONROL PLAN SHEET	SURVEY BOOK	SHEETS: 18 of 32
CHECKED: PJM / CHECKED: PJM		CONTRACT: R-37917	PROJECT: 1401286

Plot: 10/21/2016 3:07 PM

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PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE: COMPACTED AGGREGATE BASE	SURFACE BEYOND R/W LINE: HMA	SURFACE BEYOND R/W LINE: CONCRETE	GRADE 1	GRADE 2	GRADE 3	GRADE 4	EXCAVATION CUT	EXCAVATION FILL	CLEAR ZONE AT DRIVE	HMA FOR APPROACHES 1320 LBS. PER SYD. B	HMA MATERIALS LBS. PER SYD.: SURFACE 9.5 mm		INTERMD. 19.0 mm		BASE 25.0 mm	HMA BASE 25 mm	SEAL COAT TYPE 2	SEAL COAT TYPE 5	HMA MATERIAL FOR: PRIME COAT	HMA MATERIAL FOR: TACK COAT	COMPACTED AGGREGATE FOR BASE NO. 53 DEPTH				COMPACTED AGGREGATE FOR SURFACE NO. 73 DEPTH		SUBGRADE TREATMENT, TYPE II			REMARKS
		FT	FT	FT	FT	SYS	SYS	SYS	%	%	%	%	CYS	CYS	FT	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS			
12+43.42 LT	Class IV Dr. Mod.	18.2	60.2	25'/20'												177																		177			
13+54.13 LT	Class IV Dr. Mod.	40.7	33.6	15'/20'												248																		248			
17+47.60 LT	Class IV Dr. Mod.	28.8	27.1	10'/20'												136																		136			

SHEET SIGN & POST SUMMARY

LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE W x H in X in	SHEETING METAL THICKNESS 0.08 in ft²	0.10 in ft²	0.125 in ft²	POST SQUARE Type 1 (2.25 x 2.25 x 0.105) REINFORCED POST LENGTH (ft) 1	2	TOTAL	Type 2 (2 x 2 x 0.105) REINFORCED POST LENGTH (ft) 1	2	TOTAL	Type 3 (2.50 x 2.50 x 0.105) UNREINFORCED POST LENGTH (ft) 1	2	TOTAL	Type 3 (2.50 x 2.50 x 0.105) REINFORCED POST LENGTH (ft) 1	2	TOTAL	REMARKS
A	10+37	R1-1	30 x 30	6.25			10.00		10.00										
A	10+37	D3-1 (Kingston Dr.)	Exist.				Mounted with R1-1												Existing street sign to be used.
A	12+67	Exist.	Exist.				10.00		10.00										Existing sign to be reset on new post.
A	21+06	R2-1 (25 MPH)	30 x 24	5.00			10.00		10.00										
A	22+30	W1-1 (Left)	18 x 18	2.25			6.00		6.00										Bicycle Curve Warning Sign (Left hand curve)
TOTALS				13.50					36.00										

PIPE MATERIAL SUMMARY

		STRUCTURE NUMBER 106	108	300	301	302	303	304	305	306	307
PIPE TYPE / SHAPE		2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.	2/Cir.
SMOOTH PIPE SIZE		12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
CORRUGATED PIPE SIZE		12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
RCP/RCHEP (S)	CLASS	II	II	II	II	II	II	II	III	II	II
	D 0.01 RATING	1000	1000	1000	1000	1000	1000	1000	1250	1000	1000
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		X	X	X	X	X	X	X	X	X	X
CORRUGATED PE PIPE, TYPE S (S)*		X	X	X	X			X	X	X	X
RIBBED PE PIPE (S)*											X
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR		X/26.00	X/26.00	X/26.00	X/26.00			X/26.00	X/26.00	X/26.00	X/26.00
PROFILE WALL PVC PIPE (S)		X	X	X	X			X	X	X	X
SMOOTH WALL PVC PIPE (S)*		X	X	X	X			X	X	X	X
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		X	X	X	X	X	X	X	X	X	X
CORRUGATED STEEL PIPE/PIPE-ARCH: FULLY BIT. PAVED & LINED (S)	CORR. PROFILE	2-2/3 in. x 1/2 in.	2-2/3 in. x 1/2 in.	2-2/3 in. x 1/2 in.	2-2/3 in. x 1/2 in.	2-2/3 in. x 1/2 in.	2-2/3 in. x 1/2 in.	2-2/3 in. x 1/2 in.	2-2/3 in. x 1/2 in.	2-2/3 in. x 1/2 in.	2-2/3 in. x 1/2 in.
	THICKNESS	0.064 in.	0.064 in.	0.064 in.	0.064 in.	0.064 in.	0.064 in.	0.064 in.	0.064 in.	0.064 in.	0.064 in.
ZINC COATED (C)	CORR. PROFILE										
	THICKNESS										
ZINC COATED W/ BPI (C)	CORR. PROFILE										
	THICKNESS										
ALUM. COATED TYPE 2 (C)	CORR. PROFILE										
	THICKNESS										
ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE										
	THICKNESS										
POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE										
	THICKNESS										
POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE										
	THICKNESS										
POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE										2-2/3 in. x 1/2 in.
	THICKNESS										0.064 in.
FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE										
	THICKNESS										
FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE										
	THICKNESS										
CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE										
	THICKNESS										
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE										
	THICKNESS										
STR. PLATE ALUMINUM ALLOY PLATE (C)	CORR. PROFILE										
	THICKNESS										
STR. PLATE ALUMINUM ALLOY PLATE W/ CFP (C)	CORR. PROFILE										
	THICKNESS										
STR. PLATE STEEL PIPE (C)	CORR. PROFILE										
	THICKNESS **										
STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE										
	THICKNESS **										

LEGEND

RCP- Reinforced Concrete Pipe
RCHEP- Reinforced Concrete Horizontal
PE- Polyethylene
DR- Dimension Ratio
PVC- Polyvinyl Chloride
BIT- Bituminous
CORR- Corrugation
BPI- Bituminous Paved Invert
ALUM- Aluminum
STR- Structural
CFP- Concrete Field Paving
CIR- Circular Pipe
DEF- Deformed Pipe
(S)- Smooth Pipe Material
(C)- Corrugated Pipe Material
OK- Acceptable for Use
(LS)- Lock Seam Pipe Required

*- Refer to Standard Drawings 715-PHCL-18 and -19 for nominal diameter appropriate for pay item diameter.

**- Tabulated thickness refers to top and side plates. Bottom plates shall be of next greater available thickness.

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JLB
CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

MISCELLANEOUS SUMMARY TABLES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1401286
SURVEY BOOK	SHEETS
	19 of 32
CONTRACT	PROJECT
R-37917	1401286

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STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE	DESCRIPTION		LENGTH	VIDEO INSPECTION LENGTH	SKEW	TOP OF CASTING	COVER	FLOW LINE		SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	REVETMENT RIPRAP	SCOUR PROTECTION				CONCRETE CLASS A, FOR STR.	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR.	REMARKS
	STATION	LEFT	RIGHT	CROSS	OFFSET		PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE						UP STREAM	DOWN STREAM											SUMP DEPTH	GEOTEXTILE	RIPRAP					TYPE	SLOPE	EA.	TYPE	SLOPE	EA.		
					FT	IN.			LFT	LFT		ELEV.	FT	ELEV.	ELEV.	YRS				CYS		CYS		SYS	TON	IN.	SYS.	TYPE	TONS	CYS	LFT	EA.								
	Line A																																								
100	10+39.76	X			18.3			Exist. Inlet																																	No work req'd.
101	10+35.74		X		0.4			Exist. MH																																	No work req'd.
102	10+45.13		X		26.2			Exist. Inlet																																	No work req'd.
103	12+28.33	X			26.5			Exist. Inlet																																	Adjust casting to grade
104	12+43.84		X		18.6			Exist. Inlet																																	No work req'd.
105	12+45.35	X			2.7			Exist. MH																																	Connect new pipe from Str. 106
106	12+88.29	X			21.3	12	2	Exist. C.B. w/ Type 4 Casting	44	44		652.46	4.19	647.27	645.12	50	NA	7	1	29	2																			105	Remove exist. pipe. Furnish/Install Type 4 casting & adjust to grade.
107	17+20.17	X			17.1			Exist. Inlet																																	Remove Str. & abandon 83 LFT of exist. pipe
108	17+82.09		X		15.8	12	2	Exist. Inlet	28	28		Exist.	3.17	640.86	640.75	50	NA	7	1	14	2																			304	Install new pipe to connect to Str. 304. Abandon 26 LFT of exist. pipe
109	18+00.99	X			0.6			Exist. MH																																	No work req'd.
110	18+06.06	X			16.8			Exist. Inlet																																	Remove Str. & abandon 18 LFT of exist. pipe
111	19+24.21	X			65.6			Exist. C.B.																																	No work req'd.
112	20+83.55		X		18.4			Exist. Inlet																																	Remove Str. & abandon 32 LFT of exist. pipe
113	20+83.14	X			15.8			Exist. Inlet																																	Remove Str. & abandon 31 LFT of exist. pipe
114	21+07.75		X		0.6			Exist. MH																																	No work req'd.
115	21+73.89	X			72.1			Exist. C.B.																																	No work req'd.
116	22+53.57		X		15.8			Exist. Inlet																																	No work req'd.
117	22+56.36	X			16.1			Exist. Inlet																																	Remove Str. & abandon 39 LFT of exist. pipe
118	22+90.89	X			42.5			Exist. MH																																	Adjust Casting to Grade
119	22+91.67	X			1.2			Exist. MH																																	No work req'd.
300	12+90.00	X			10.0	12	2	Inlet C-15	8	8		651.96	3.66	647.30	647.27	50	NA	7	1	5	2																			106	
301	13+82.00	X			10.0	12	2	MH C-4	87	87		651.92	3.27	647.65	647.30	50	NA	7	1	46	2																			300	
302	13+82.00		X		15.8	12	2	Inlet B-15	24	24		651.34	2.5	647.84	647.65	50	NA	7	1	10	2																			301	
303	17+19.00	X			10.0	12	2	Inlet B-15	71	71		647.38	2.5	643.88	641.68	50	NA	7	1	30	2																			304	
304	17+94.00	X			10.0	12	2	Inlet C-15	279	279		645.18	3.43	640.75	633.29	50	NA	7	1	153	2																			305	
305	20+77.00	X			10.0	12	2	Inlet C-15	210	210		636.79	7.99	627.80	624.40	50	NA	7	1	262	2																			307	
306	20+77.00		X		15.2	12	2	Inlet B-15	25	25		636.44	5.44	630.00	629.90	50	NA	7	1	21	2																			305	
307	22+91.00	X			9.8	18	2	Inlet C-15	20	20		629.92	4.52	623.90	Exist.	50	NA	7	1	14	2																			Exist.	Connect to exist. pipe to north and south.

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JLB

CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1401286
SURVEY BOOK	SHEETS
	20 of 32
CONTRACT	PROJECT
R-37917	1401286

Plot: 10/21/2016 3:07 PM

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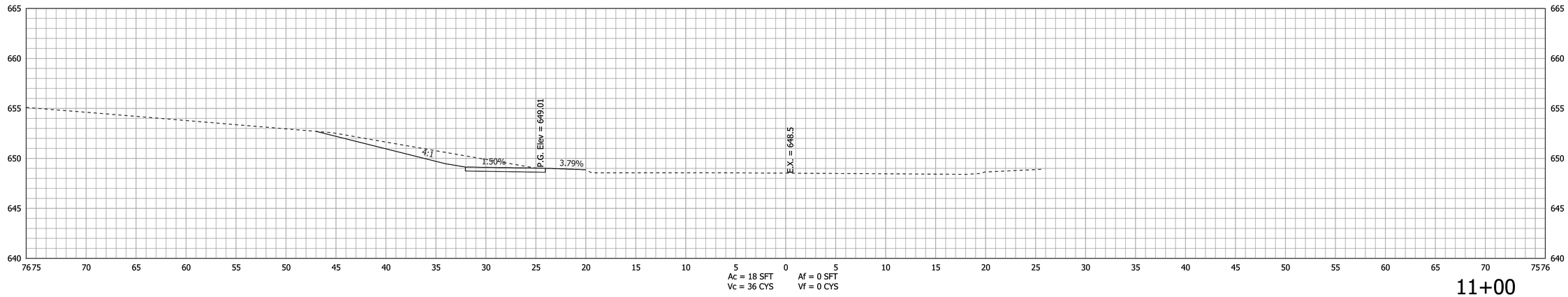
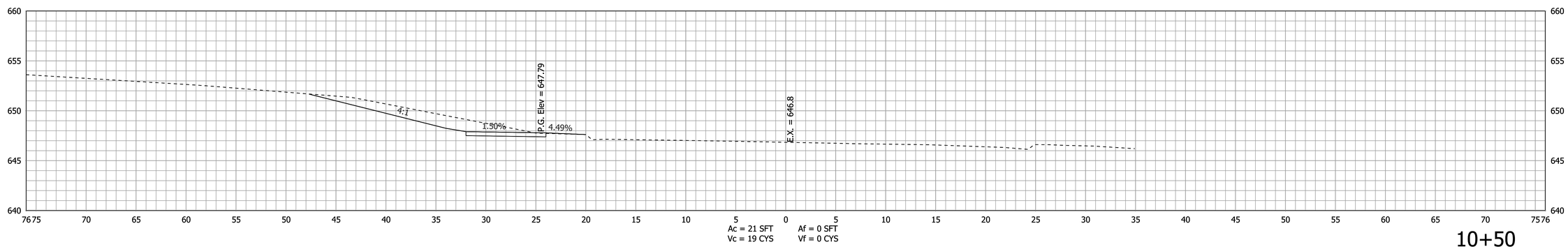
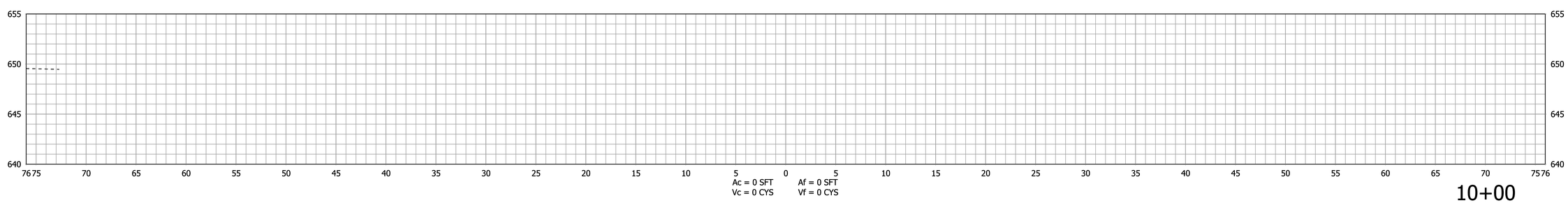


11+00



10+50

Begin Project Sta. 10+12.11 "A"



10+00

STA. 10+00 TO STA. 11+00

Plot: 10/21/2016 3:07 PM

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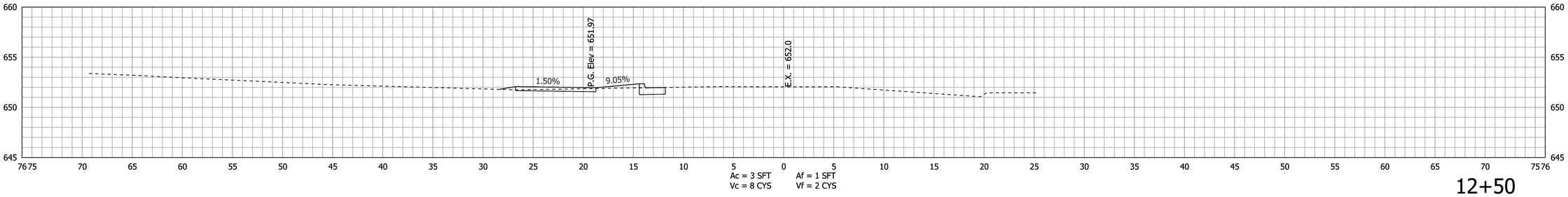
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
		VERTICAL SCALE 1" = 5'	DESIGNATION 1401286
DESIGNED: JLB / DRAWN: JLB	ROADWAY CROSS SECTIONS LINE "A"	SURVEY BOOK	SHEETS 21 of 32
CHECKED: PJM / CHECKED: PJM		CONTRACT R-37917	PROJECT 1401286



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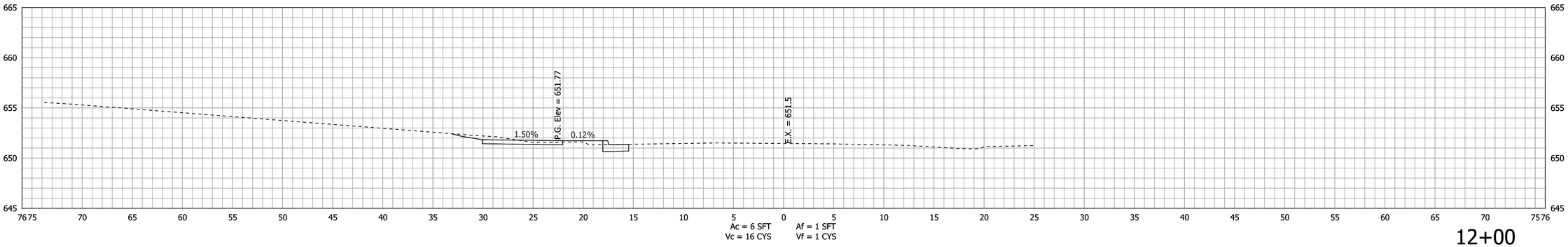
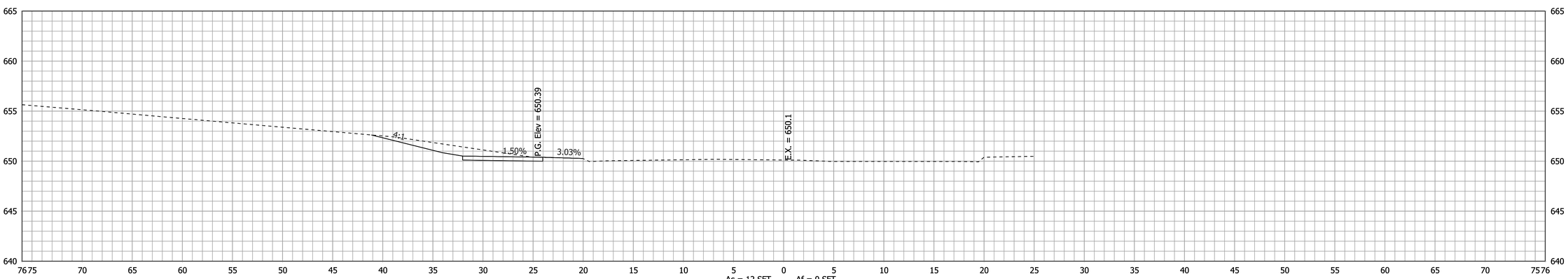


12+00



11+50

STA. 11+50 TO STA. 12+50

Plot: 10/21/2016 3:07 PM

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

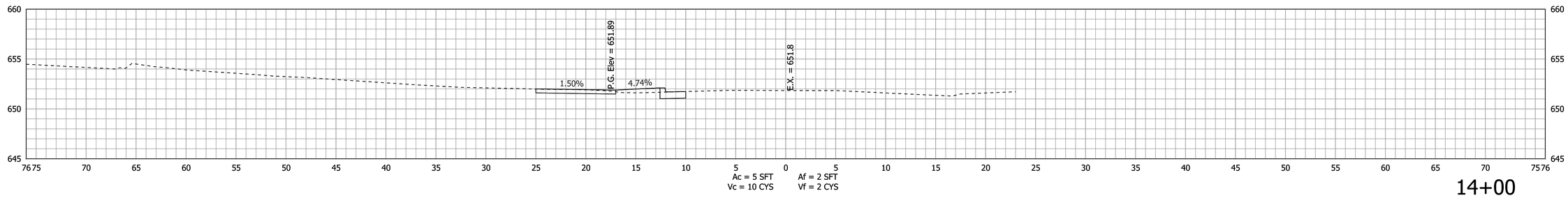
DESIGNED: JLB DRAWN: JLB

CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

ROADWAY CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1401286
SURVEY BOOK	SHEETS
	22 of 32
CONTRACT	PROJECT
R-37917	1401286



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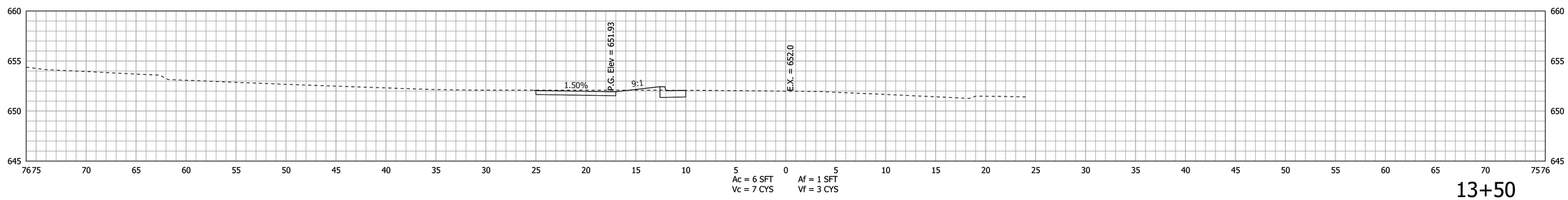
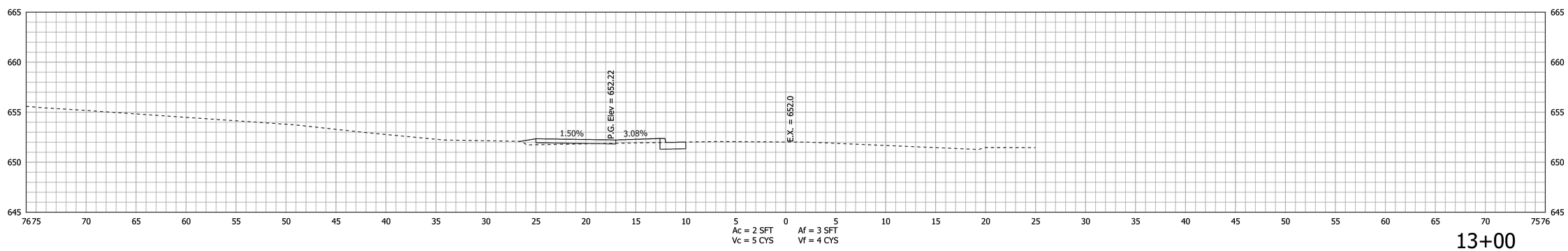


13+50



13+00

STA. 13+00 TO STA. 14+00

Plot: 10/21/2016 3:07 PM

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

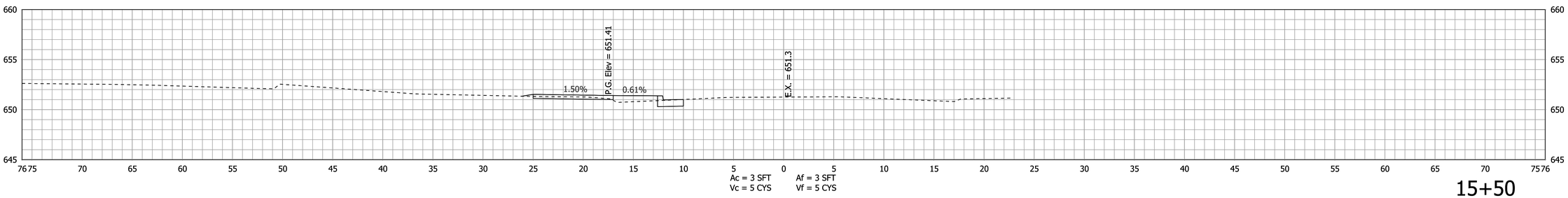
DESIGNED: JLB DRAWN: JLB

CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

ROADWAY CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1401286
SURVEY BOOK	SHEETS
	23 of 32
CONTRACT	PROJECT
R-37917	1401286



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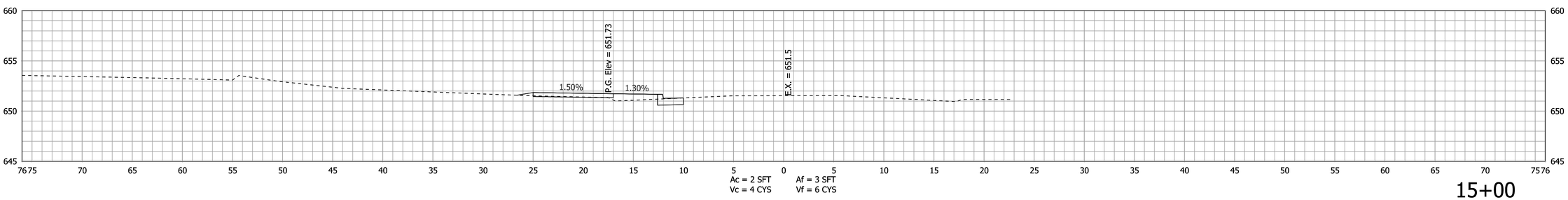
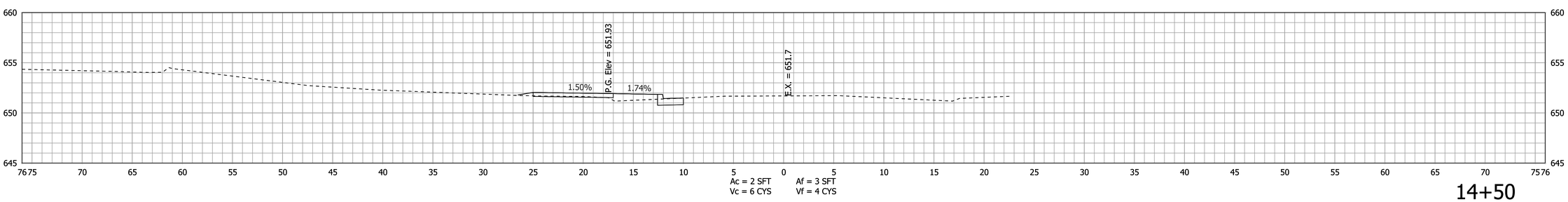


15+00



14+50

STA. 14+50 TO STA. 15+50

Plot: 10/21/2016 3:07 PM

$FILE$

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

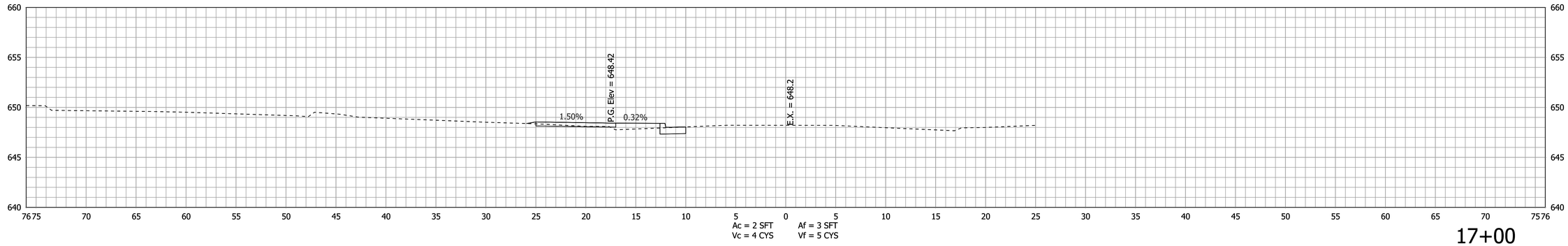
DESIGNED: JLB DRAWN: JLB

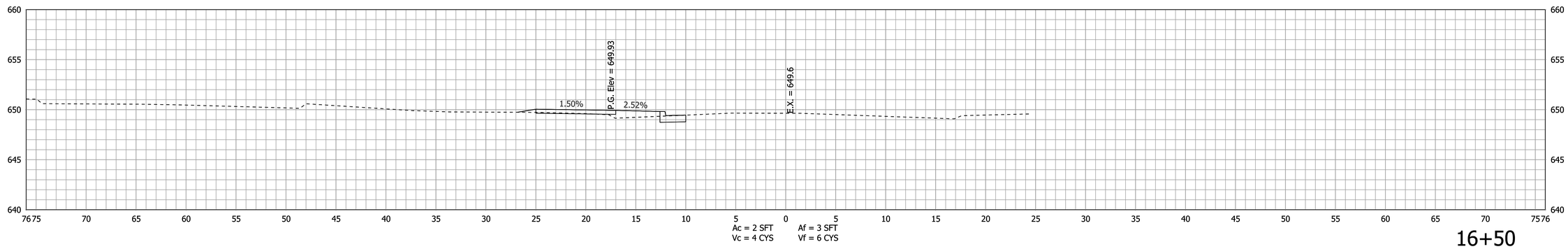
CHECKED: PJM CHECKED: PJM

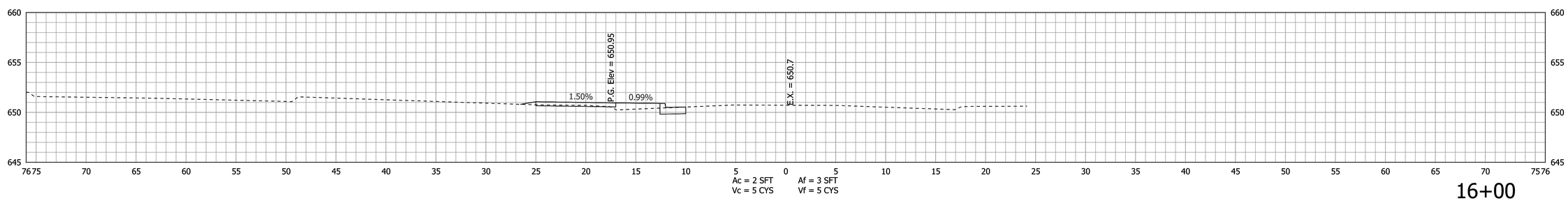
CITY OF WEST LAFAYETTE
KINGSTON TRAIL

ROADWAY CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1401286
SURVEY BOOK	SHEETS
	24 of 32
CONTRACT	PROJECT
R-37917	1401286







STA. 16+00 TO STA. 17+00

Plot: 10/21/2016 3:07 PM

$FILE$

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

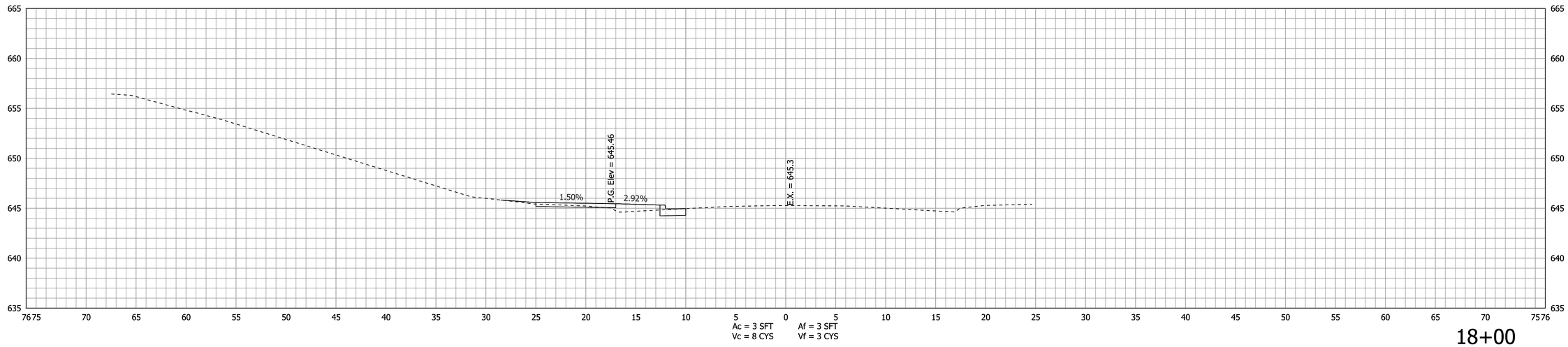
DESIGNED: JLB DRAWN: JLB

CHECKED: PJM CHECKED: PJM

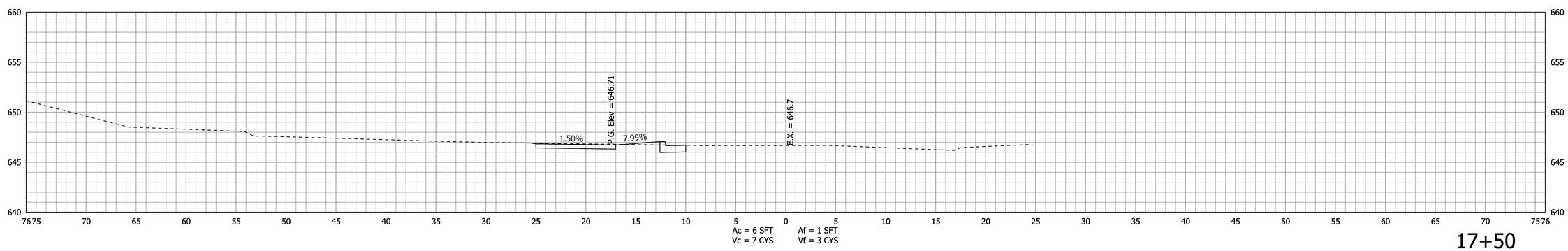
CITY OF WEST LAFAYETTE
KINGSTON TRAIL

ROADWAY CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1401286
SURVEY BOOK	SHEETS
	25 of 32
CONTRACT	PROJECT
R-37917	1401286



18+00



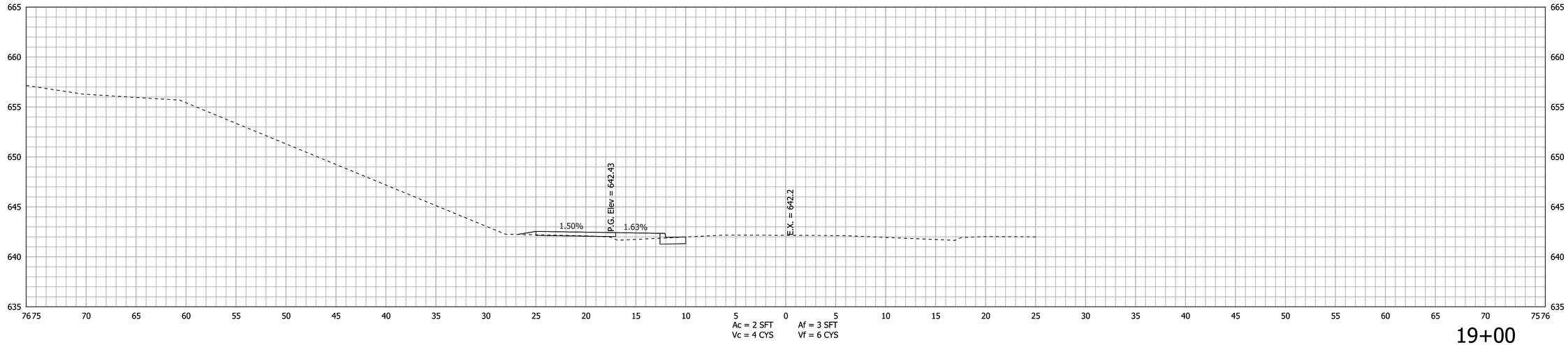
17+50

STA. 17+50 TO STA. 18+00

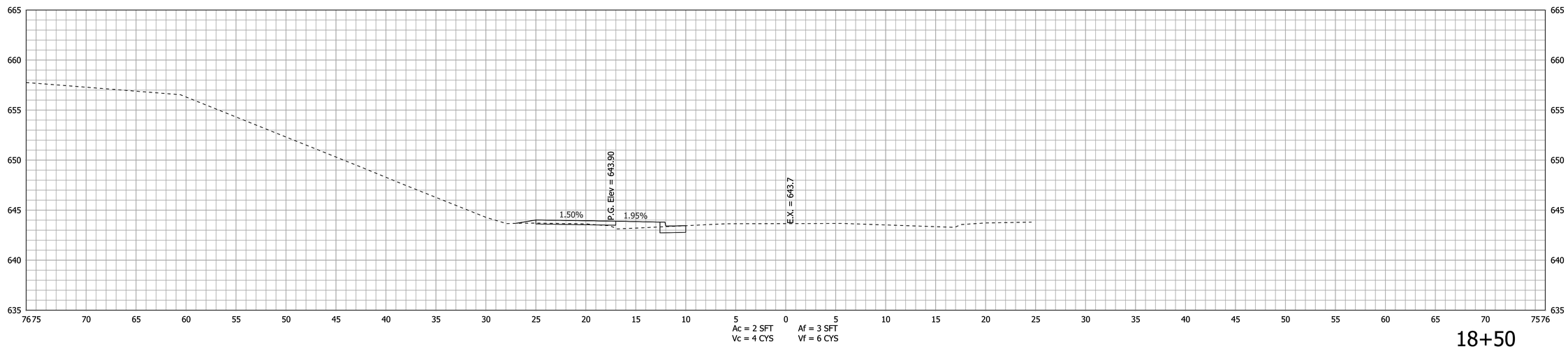
Plot: 10/21/2016 3:07 PM

$FILE$

RECOMMENDED FOR APPROVAL ____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE: 1" = 5'	BRIDGE FILE
		VERTICAL SCALE: 1" = 5'	DESIGNATION: 1401286
DESIGNED: JLB / DRAWN: JLB	ROADWAY CROSS SECTIONS LINE "A"	SURVEY BOOK	SHEETS: 26 of 32
CHECKED: PJM / CHECKED: PJM		CONTRACT: R-37917	PROJECT: 1401286



19+00



18+50

STA. 18+50 TO STA. 19+00

Plot: 10/21/2016 3:07 PM

$FILE$

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

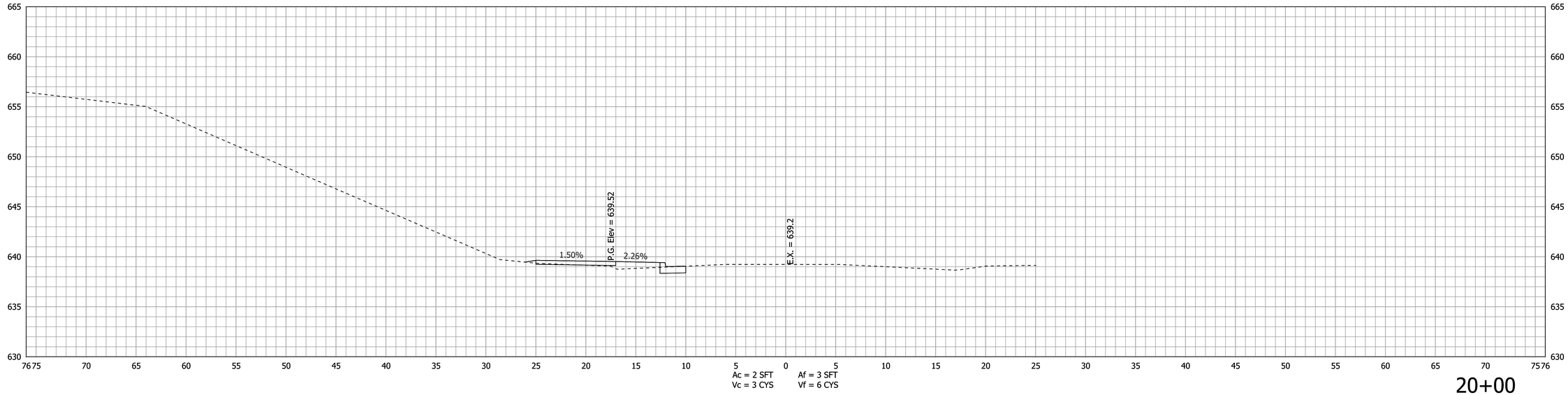
DESIGNED: JLB DRAWN: JLB

CHECKED: PJM CHECKED: PJM

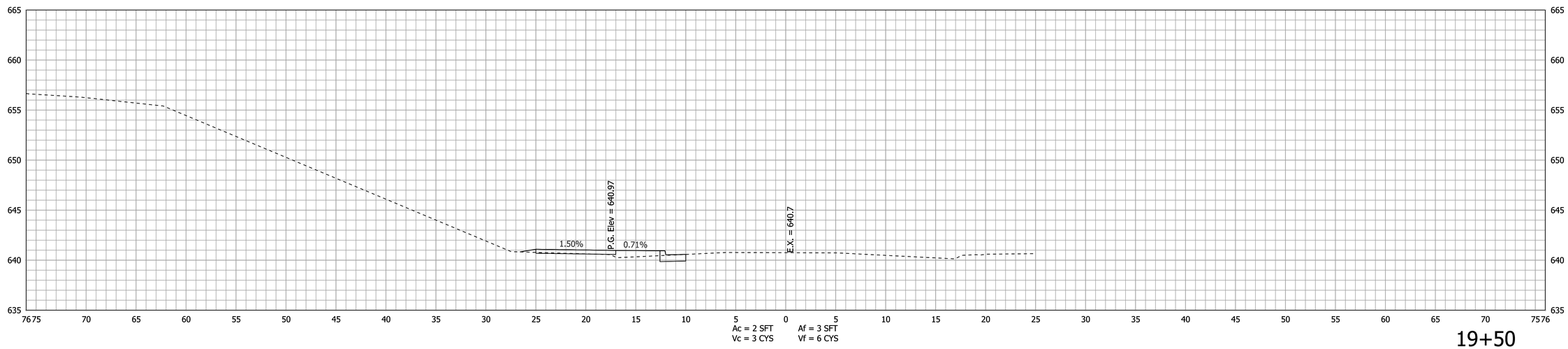
CITY OF WEST LAFAYETTE
KINGSTON TRAIL

ROADWAY CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1401286
SURVEY BOOK	SHEETS
	27 of 32
CONTRACT	PROJECT
R-37917	1401286



20+00



19+50

STA. 19+50 TO STA. 20+00

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE: 1" = 5' BRIDGE FILE
			VERTICAL SCALE: 1" = 5' DESIGNATION: 1401286
DESIGNED: JLB	DRAWN: JLB	ROADWAY CROSS SECTIONS LINE "A"	SURVEY BOOK SHEETS: 28 of 32
CHECKED: PJM	CHECKED: PJM		CONTRACT: R-37917 PROJECT: 1401286

Plot: 10/21/2016 3:07 PM

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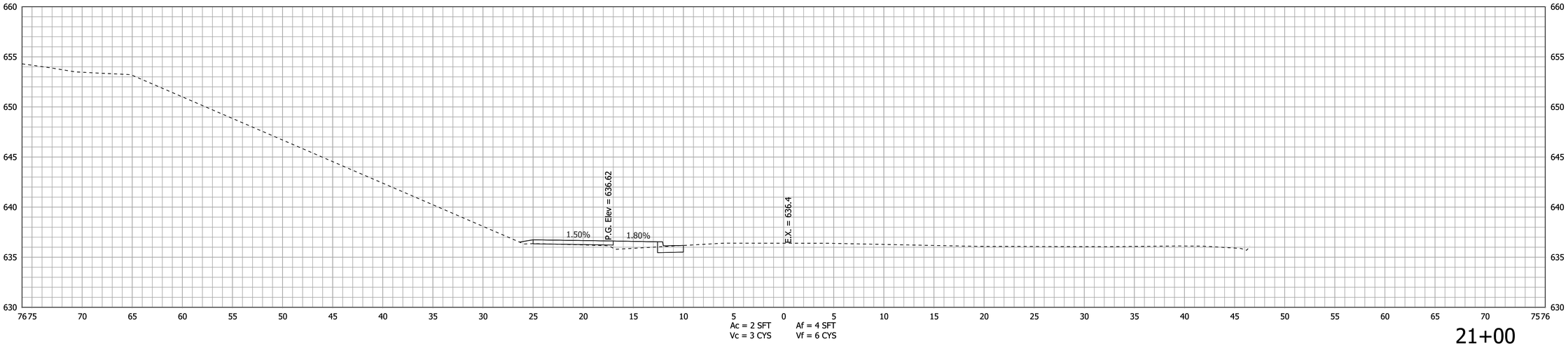
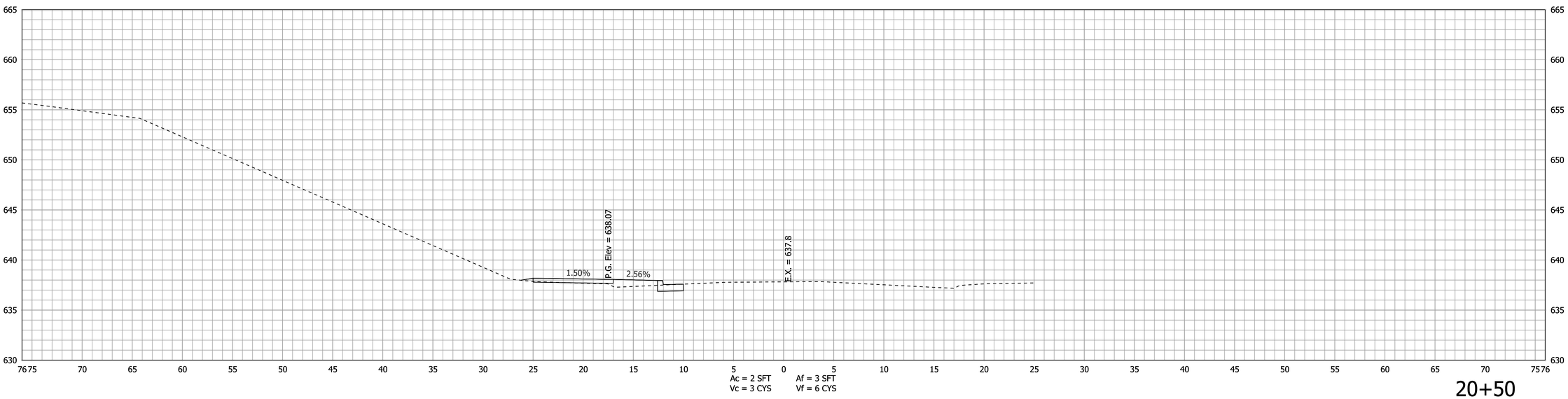


21+00



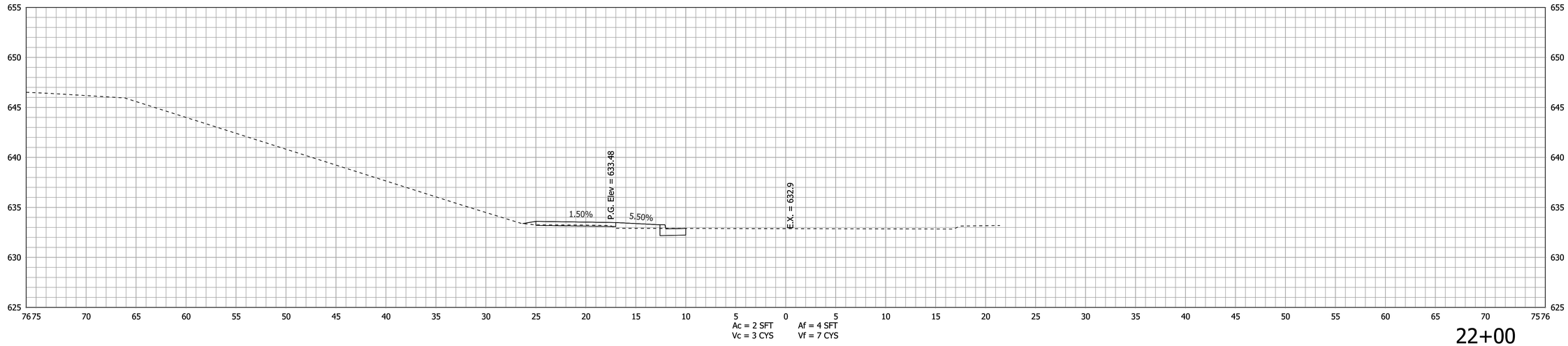
20+50

STA. 20+50 TO STA. 21+00

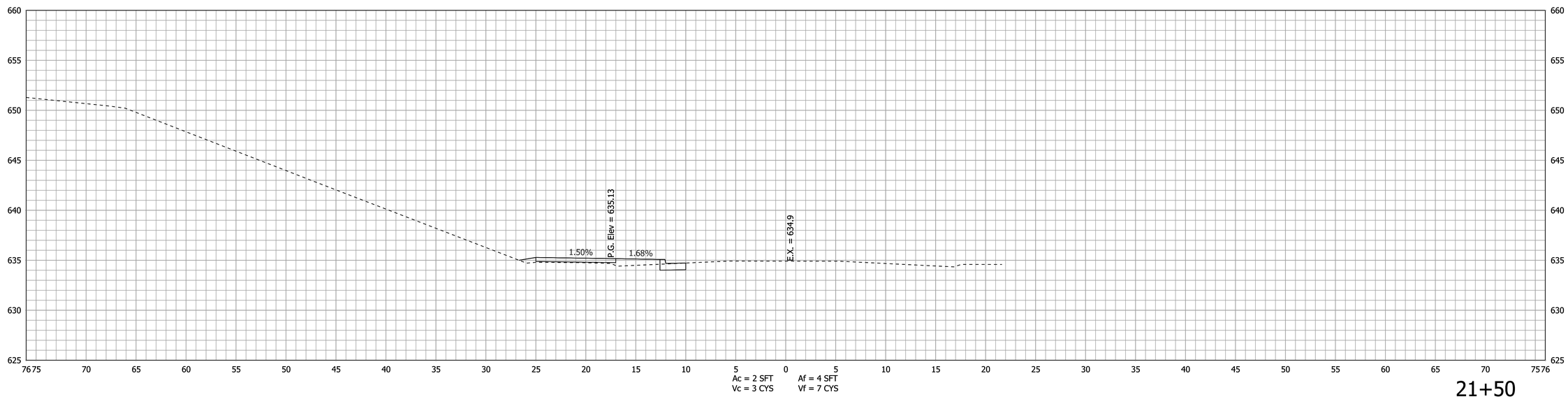
Plot: 10/21/2016 3:07 PM

$FILE$

RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
		VERTICAL SCALE 1" = 5'	DESIGNATION 1401286
DESIGNED: JLB DRAWN: JLB	ROADWAY CROSS SECTIONS LINE "A"	SURVEY BOOK	SHEETS 29 of 32
CHECKED: PJM CHECKED: PJM		CONTRACT R-37917	PROJECT 1401286



22+00



21+50

STA. 21+50 TO STA. 22+00

Plot: 10/21/2016 3:08 PM

$FILE$

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

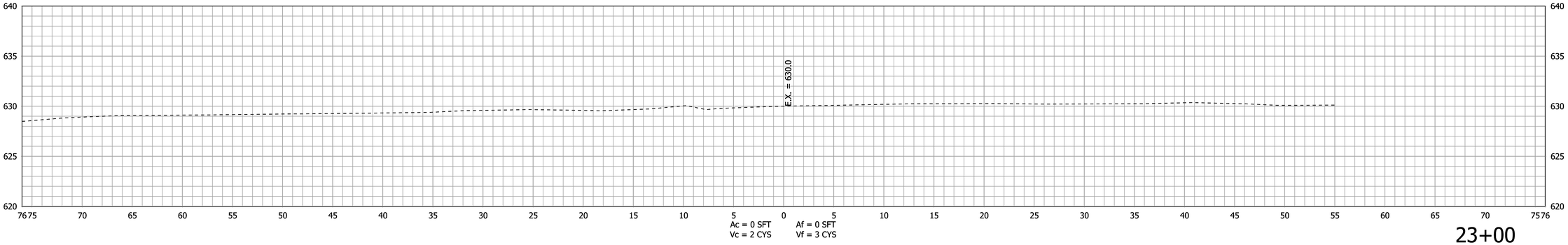
DESIGNED: JLB DRAWN: JLB

CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

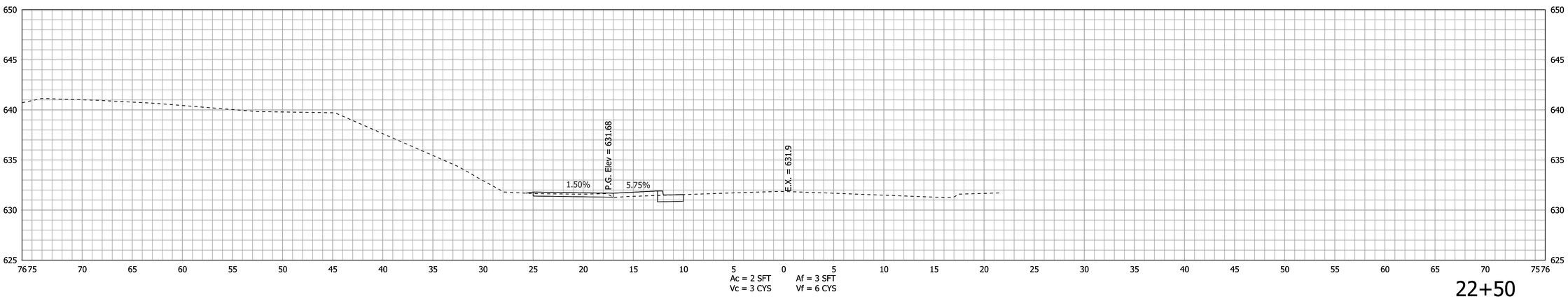
ROADWAY CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1401286
SURVEY BOOK	SHEETS
	30 of 32
CONTRACT	PROJECT
R-37917	1401286



23+00

End Project Sta. 23+13.95 "A"



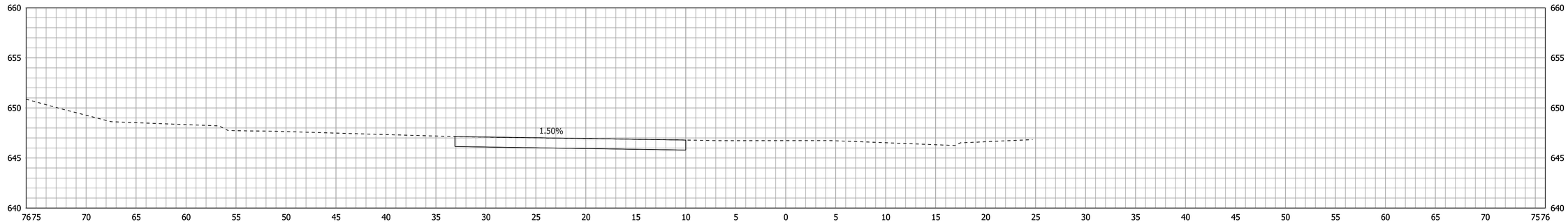
22+50

STA. 22+50 TO STA. 23+00

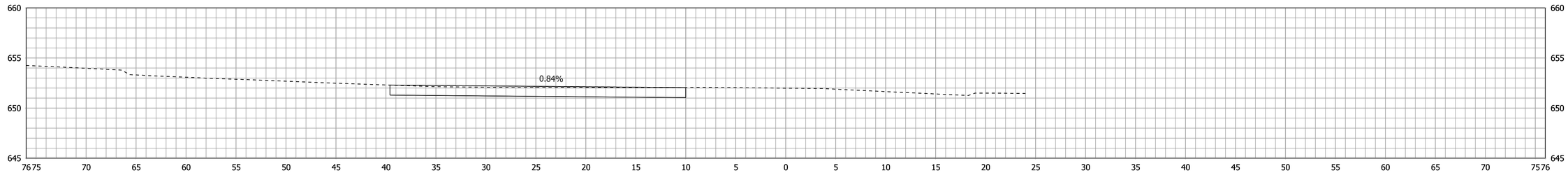
Plot: 10/21/2016 3:08 PM

$FILE$

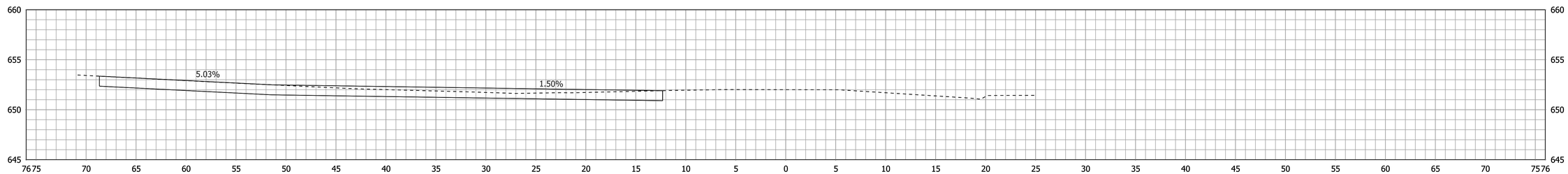
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE KINGSTON TRAIL	HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
		VERTICAL SCALE 1" = 5'	DESIGNATION 1401286
DESIGNED: JLB / DRAWN: JLB	ROADWAY CROSS SECTIONS LINE "A"	SURVEY BOOK	SHEETS 31 of 32
CHECKED: PJM / CHECKED: PJM		CONTRACT R-37917	PROJECT 1401286



17+48
Class IV Drive Lt



13+54
Class IV Drive Lt



12+43
Class IV Drive Lt

Plot: 10/21/2016 3:08 PM

$FILE$

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLB DRAWN: JLB
CHECKED: PJM CHECKED: PJM

CITY OF WEST LAFAYETTE
KINGSTON TRAIL

DRIVE CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1401286
SURVEY BOOK	SHEETS
	32 of 32
CONTRACT	PROJECT
R-37917	1401286