

VICINITY MAP

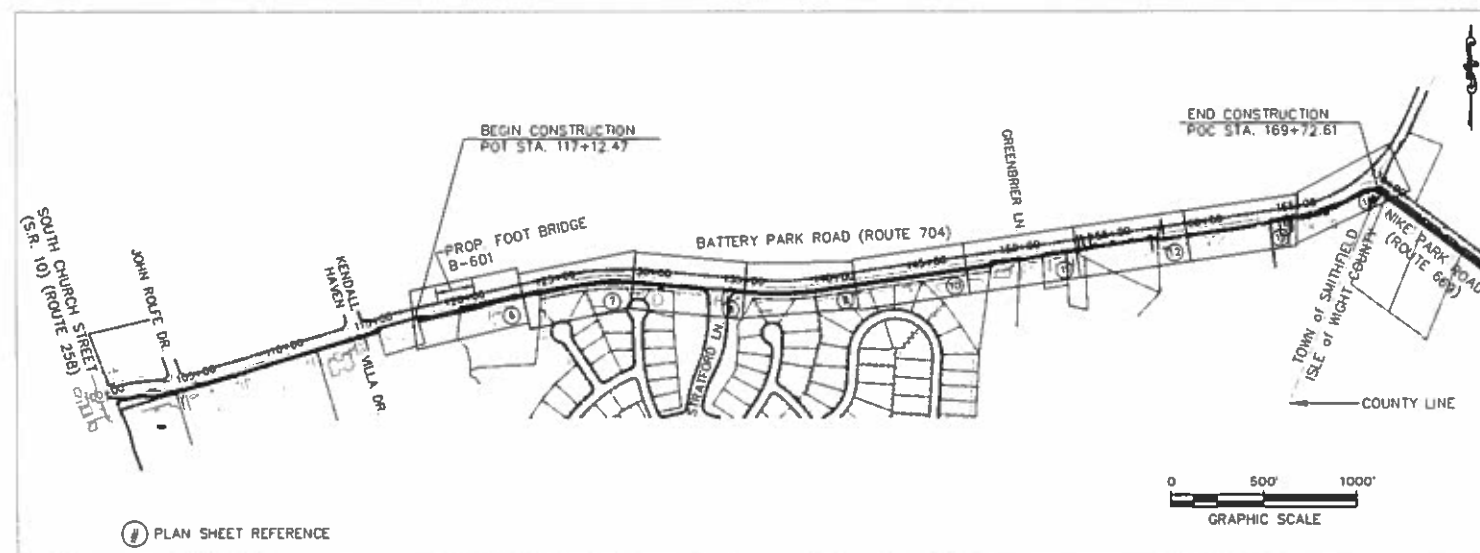


TOWN OF SMITHFIELD, VIRGINIA

SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL

SEGMENT 1-BATTERY PARK ROAD

UPC #101793



PLAN SHEET REFERENCE

PLAN REVIEW HISTORY

DATE	INITIAL	DESCRIPTION
7/13/2011	RRJ	30% INITIAL DESIGN SUBMITTAL
12/5/2011	RRJ	60% PROG. SUBMITTAL TO COUNTY
6/21/2012	RRJ	60%/RW PLANS SUBMITTAL
1/15/2013	RRJ	RW PLANS SUBMITTAL
6/13/2013	RRJ	RW PLANS SUBMITTAL (REVISED)
11/10/2016	RRJ	ADV. AUTH. SUBMITTAL
12/12/2016	RRJ	PS&E

THIS PROJECT IS GRANDFATHERED UNDER THE PROVISIONS OF SECTION 4VAC50-60-48 OF THE VSMP REGULATIONS ADOPTED SEPTEMBER 13, 2011 AND UTILIZES THE TECHNICAL CRITERIA OF PART IIC (4VAC50-60-93.1 ET. SEQ.) FOR DETERMINING ITS POST DEVELOPMENT STORMWATER MANAGEMENT DESIGN.

THIS PROJECT HAS BEEN DESIGNED ACCORDING TO THE AASHTO 2012 GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH VDOT'S 2007 ROAD AND BRIDGE SPECIFICATIONS, 2008 ROAD AND BRIDGE STANDARDS, 2011 WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC .TIF VERSION OF THE PLAN ASSEMBLY.

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

PROJECT RIGHT OF WAY AND/OR OTHER EASEMENTS WILL BE CONVEYED BY PLAT(S) PREPARED BY OTHERS.

FHWA 534 DATA 21028

Name and Functional Classification	FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA FOR ADJACENT ROADWAYS			
	Fr: SOUTH CHURCH ST. To: NIKE PARK RD.	Fr: BATTERY PARK RD. To: TITUS CREEK DR.	Fr: TITUS CREEK DR. To: REYNOLDS DR.	Fr: SOUTH CHURCH ST. To: NIKE PARK RD.
ADT (2012)	10,159 VPD	9,115 VPD	3,039 VPD	N/A
ADT (2034)	-	-	-	N/A
DMV	-	-	-	N/A
D (%) (design hour)	-%	-%	-%	-%
T (%) (design hour)	-%	-%	-%	-%
V (MPH)	35 MPH (POSTED)	45 MPH (POSTED)	45 MPH (POSTED)	18 MPH (DESIGNED)

POPULATION 36,462 (2013 CENSUS)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	PPMS NO.	LENGTH		TYPE PROJECT	DESCRIPTION
					FEET	MILES		
EN08 046-115	P-101	TEA 5A03(188)	N/A	91219	20782.08	3.936	PREL. ENGR.	Fr: CYPRESS CREEK BRIDGE To: NIKE PARK ROAD
	R-201	TEA 5A03(678)	N/A	101793	6925.20	1.312	RIGHT OF WAY	Fr: SOUTH CHURCH ST. To: NIKE PARK ROAD
	M-501	-	1000	101793	5260.14	0.996	CONSTRUCTION	Fr: SOUTH CHURCH ST. To: NIKE PARK ROAD
	B-601	-	X901	101793	201.25	0.038	BRIDGE	PROP. TRAIL OVER WETLANDS

NOTE: PROJECT LENGTH BASED ON CONSTRUCTION BASELINE INCLUDING EQUALITIES

LOCALLY ADMINISTERED PROJECTS TRANSPORTATION ENHANCEMENT PROGRAM	
Isle of Wight County, Virginia	
NAME OF LOCALITY	
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
01/03/17	JAMIE OLIVER, TRANSPORTATION COORDINATOR
DATE	
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
01/03/17	JAMIE OLIVER, TRANSPORTATION COORDINATOR
DATE	

SHEET INDEX

1	TITLE SHEET
1A	RIGHT-OF-WAY DATA SHEET
1B	SURVEY CONTROL
1C	GRADING DIAGRAM
1D-1D(2)	STORMWATER POLLUTION PREVENTION PLAN
1E-1E(2)	TRANSPORTATION MANAGEMENT PLAN
2	GENERAL NOTES
2A	TYPICAL SECTIONS AND DETAILS
3-5	NOT USED
6-14	PLAN SHEETS
15	NOT USED
15(1) - 15(5)	PROFILE SHEETS
16(1)	PEDESTRIAN BRIDGE B-601 PLAN & DEVELOPED SECTION
16(2)	PEDESTRIAN BRIDGE B-601 GENERAL NOTES
16(3)	PEDESTRIAN BRIDGE B-601 DETAILS

X1-X3	NOT USED
X4-X15	CROSS SECTIONS



PROJECT OWNER & CONSULTANT

CLIENT / OWNER

ISLE OF WIGHT COUNTY
CONTACT: JAMIE OLIVER
GENERAL SERVICES DEPARTMENT
ADDRESS: 13048 POOR HOUSE ROAD
ISLE OF WIGHT, VA 23397
PHONE: (757) 365-1658

CIVIL ENGINEER

Kimley-Horn

© 2016 KIMLEY-HORN AND ASSOCIATES, INC.
4500 MAIN STREET
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PHONE: 757-213-8800
FAX: 757-213-8601

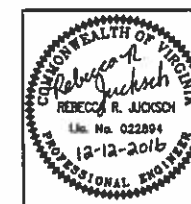
TOWN OF SMITHFIELD
CONTACT: WILLIAM SAUNDERS
PLANNING/ENGINEERING DEPARTMENT
ADDRESS: 310 INSTITUTE STREET
SMITHFIELD, VA 23431
PHONE: (757) 365-4200

V.D.O.T.

CONTACT: DERRICK WILLIAMS
ADDRESS: 1700 N. MAIN STREET
SUFFOLK, VIRGINIA 23434
PHONE: (757) 925-2582

SURVEYOR

NXL
CONTACT: TODD FRENCH
ADDRESS: 716 J CLYDE MORRIS BLVD.
NEWPORT NEWS, VIRGINIA 23601
PHONE: (757) 596-4005

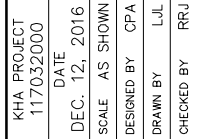


PLANS REVISED		
SHEET NO.	DATE	REMARKS
FILE NO.	SHEET NO.	TOTAL SHEETS
	1	XXX

Plotted By: Locklear, Lynda Sheet Set: 117-0320000 - IOW Trail - Seg 1 Layout: Layout1 December 12, 2016 02:23:10pm K:\VAB ROW\117-0320000 - IOW Trail Project Design Sheets Segment 1\IA RIGHT-OF-WAY DATA SHEET.dwg

PROPOSED RIGHT-OF-WAY AND/OR OTHER EASEMENTS WILL
BE CONVEYED BY PLATS PREPARED BY OTHERS,

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PHONE: 757-213-8600 FAX: 757-213-8601
WWW.KIMLEY-HORN.COM



SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1

SHEET NUMBER
1A

No.	REVISIONS
-----	-----------

DATE	BY
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CONTROL STATION ID. 612
ROUTE: BATTERY PARK ROAD
COUNTY/CITY: ISLE OF WIGHT COUNTY
ESTABLISHED BY: NXL CONSTRUCTION SERVICES, INC.
VERTICAL DATUM: NAVD 88
ELEVATION: 41.22
HORIZONTAL DATUM BASED ON VA. STATE PLANE
COORDINATE SYSTEM SOUTH ZONE (NAD 83) US SURVEY FOOT

METRIC VALUES
Y (NORTH): 1072671.114
X (EAST): 3668295.335

US SURVEY FEET VALUES
Y (NORTH): 3,519,255.15
X (EAST): 12,035,065.61

DETAILED DESCRIPTION:
STATION IS A ROD & CAP SET 5.0' BEHIND THE BACK OF CURB OF THE SOUTH SIDE OF BATTERY PARK ROAD, APPROXIMATELY 25' EAST FROM THE INTERSECTION WITH SOUTH CHURCH STREET

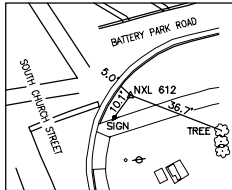


DIAGRAM NOT TO SCALE

CONTROL STATION ID. 623
ROUTE: BATTERY PARK ROAD
COUNTY/CITY: ISLE OF WIGHT COUNTY
ESTABLISHED BY: NXL CONSTRUCTION SERVICES, INC.
VERTICAL DATUM: NAVD 88
ELEVATION: 25.90
HORIZONTAL DATUM BASED ON VA. STATE PLANE
COORDINATE SYSTEM SOUTH ZONE (NAD 83) US SURVEY FOOT

METRIC VALUES
Y (NORTH): 1072769.893
X (EAST): 3668605.599

US SURVEY FEET VALUES
Y (NORTH): 3,519,579.22
X (EAST): 12,036,083.54

DETAILED DESCRIPTION:
STATION IS A ROD & CAP SET 11.4' BEHIND THE BACK OF CURB OF THE NORTH SIDE OF BATTERY PARK ROAD, APPROXIMATELY 250' WEST FROM THE INTERSECTION WITH VILLA DRIVE

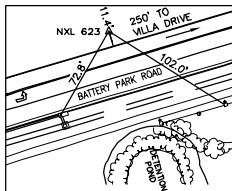


DIAGRAM NOT TO SCALE

CONTROL STATION ID. 622
ROUTE: BATTERY PARK ROAD
COUNTY/CITY: ISLE OF WIGHT COUNTY
ESTABLISHED BY: NXL CONSTRUCTION SERVICES, INC.
VERTICAL DATUM: NAVD 88
ELEVATION: 24.52
HORIZONTAL DATUM BASED ON VA. STATE PLANE
COORDINATE SYSTEM SOUTH ZONE (NAD 83) US SURVEY FOOT

METRIC VALUES
Y (NORTH): 1072817.753
X (EAST): 3668775.206

US SURVEY FEET VALUES
Y (NORTH): 3,519,736.25
X (EAST): 12,036,649.83

DETAILED DESCRIPTION:
STATION IS A ROD & CAP SET 6.2' BEHIND THE EDGE OF PAVEMENT OF THE NORTH SIDE OF BATTERY PARK ROAD, APPROXIMATELY 330' EAST FROM THE INTERSECTION WITH VILLA DRIVE

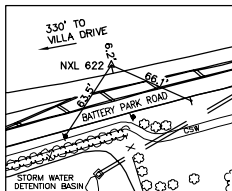


DIAGRAM NOT TO SCALE

CONTROL STATION ID. 610
ROUTE: BATTERY PARK ROAD
COUNTY/CITY: ISLE OF WIGHT COUNTY
ESTABLISHED BY: NXL CONSTRUCTION SERVICES, INC.
VERTICAL DATUM: NAVD 88
ELEVATION: 24.53
HORIZONTAL DATUM BASED ON VA. STATE PLANE
COORDINATE SYSTEM SOUTH ZONE (NAD 83) US SURVEY FOOT

METRIC VALUES
Y (NORTH): 1072866.325
X (EAST): 3668981.706

US SURVEY FEET VALUES
Y (NORTH): 3,519,895.60
X (EAST): 12,037,317.46

DETAILED DESCRIPTION:
STATION IS A ROD & CAP SET 18.0' BEHIND THE EDGE OF PAVEMENT OF THE NORTH SIDE OF BATTERY PARK ROAD, APPROXIMATELY 1025' EAST FROM THE INTERSECTION WITH VILLA DRIVE

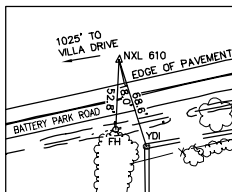


DIAGRAM NOT TO SCALE

CONTROL STATION ID. 617
ROUTE: BATTERY PARK ROAD
COUNTY/CITY: ISLE OF WIGHT COUNTY
ESTABLISHED BY: NXL CONSTRUCTION SERVICES, INC.
VERTICAL DATUM: NAVD 88
ELEVATION: 22.96
HORIZONTAL DATUM BASED ON VA. STATE PLANE
COORDINATE SYSTEM SOUTH ZONE (NAD 83) US SURVEY FOOT

METRIC VALUES
Y (NORTH): 1072850.586
X (EAST): 3669433.433

US SURVEY FEET VALUES
Y (NORTH): 3,519,843.96
X (EAST): 12,038,799.52

DETAILED DESCRIPTION:
STATION IS A ROD & CAP SET 19.2' BEHIND THE EDGE OF PAVEMENT OF THE SOUTH SIDE OF BATTERY PARK ROAD, APPROXIMATELY 525' EAST FROM THE INTERSECTION WITH STRATFORD LANE

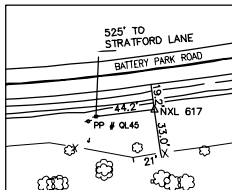


DIAGRAM NOT TO SCALE

CONTROL STATION ID. 615
ROUTE: BATTERY PARK ROAD
COUNTY/CITY: ISLE OF WIGHT COUNTY
ESTABLISHED BY: NXL CONSTRUCTION SERVICES, INC.
VERTICAL DATUM: NAVD 88
ELEVATION: 22.64
HORIZONTAL DATUM BASED ON VA. STATE PLANE
COORDINATE SYSTEM SOUTH ZONE (NAD 83) US SURVEY FOOT

METRIC VALUES
Y (NORTH): 1072926.909
X (EAST): 3669629.175

US SURVEY FEET VALUES
Y (NORTH): 3,520,094.37
X (EAST): 12,040,097.88

DETAILED DESCRIPTION:
STATION IS A ROD & CAP SET 17.1' BEHIND THE EDGE OF PAVEMENT OF THE NORTH SIDE OF BATTERY PARK ROAD, APPROXIMATELY 320' EAST OF THE RISING STAR BAPTIST CHURCH

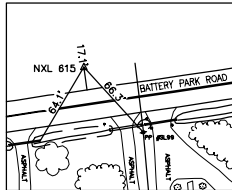


DIAGRAM NOT TO SCALE

CONTROL STATION ID. 613
ROUTE: BATTERY PARK ROAD
COUNTY/CITY: ISLE OF WIGHT COUNTY
ESTABLISHED BY: NXL CONSTRUCTION SERVICES, INC.
VERTICAL DATUM: NAVD 88
ELEVATION: 23.10
HORIZONTAL DATUM BASED ON VA. STATE PLANE
COORDINATE SYSTEM SOUTH ZONE (NAD 83) US SURVEY FOOT

METRIC VALUES
Y (NORTH): 1072966.101
X (EAST): 3670113.313

US SURVEY FEET VALUES
Y (NORTH): 3,520,222.95
X (EAST): 12,041,030.09

DETAILED DESCRIPTION:
STATION IS A ROD & CAP SET 7.9' BEHIND THE EDGE OF PAVEMENT OF THE NORTH SIDE OF BATTERY PARK ROAD, APPROXIMATELY 785' WEST OF THE INTERSECTION WITH NIKE PARK ROAD

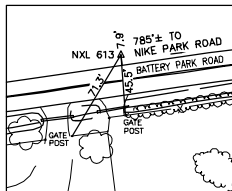


DIAGRAM NOT TO SCALE

CONTROL STATION ID. 5300
ROUTE: BATTERY PARK ROAD
COUNTY/CITY: ISLE OF WIGHT COUNTY
ESTABLISHED BY: NXL CONSTRUCTION SERVICES, INC.
VERTICAL DATUM: NAVD 88
ELEVATION: 23.53
HORIZONTAL DATUM BASED ON VA. STATE PLANE
COORDINATE SYSTEM SOUTH ZONE (NAD 83) US SURVEY FOOT

METRIC VALUES
Y (NORTH): 1073025.221
X (EAST): 3670313.928

US SURVEY FEET VALUES
Y (NORTH): 3,520,416.91
X (EAST): 12,041,688.28

DETAILED DESCRIPTION:
STATION IS A ROD & CAP SET 16.6' BEHIND THE EDGE OF PAVEMENT OF THE NORTH SIDE OF BATTERY PARK ROAD, APPROXIMATELY 90' WEST OF THE INTERSECTION WITH NIKE PARK ROAD

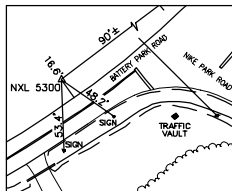


DIAGRAM NOT TO SCALE

CONTROL STATION ID. 5303
ROUTE: NIKE PARK ROAD
COUNTY/CITY: ISLE OF WIGHT COUNTY
ESTABLISHED BY: NXL CONSTRUCTION SERVICES, INC.
VERTICAL DATUM: NAVD 88
ELEVATION: 24.09
HORIZONTAL DATUM BASED ON VA. STATE PLANE
COORDINATE SYSTEM SOUTH ZONE (NAD 83) US SURVEY FOOT

METRIC VALUES
Y (NORTH): 1072899.213
X (EAST): 3670537.854

US SURVEY FEET VALUES
Y (NORTH): 3,520,003.50
X (EAST): 12,042,422.94

DETAILED DESCRIPTION:
STATION IS A ROD & CAP SET 21.9' BEHIND THE EDGE OF PAVEMENT OF THE NORTH SIDE OF NIKE PARK ROAD, APPROXIMATELY 750' SOUTH OF THE INTERSECTION WITH BATTERY PARK ROAD

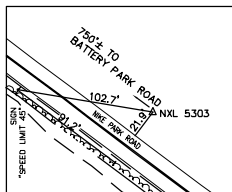


DIAGRAM NOT TO SCALE

CONTROL STATION ID. 607
ROUTE: NIKE PARK ROAD
COUNTY/CITY: ISLE OF WIGHT COUNTY
ESTABLISHED BY: NXL CONSTRUCTION SERVICES, INC.
VERTICAL DATUM: NAVD 88
ELEVATION: 23.09
HORIZONTAL DATUM BASED ON VA. STATE PLANE
COORDINATE SYSTEM SOUTH ZONE (NAD 83) US SURVEY FOOT

METRIC VALUES
Y (NORTH): 1072738.492
X (EAST): 3670749.468

US SURVEY FEET VALUES
Y (NORTH): 3,519,476.20
X (EAST): 12,043,117.21

DETAILED DESCRIPTION:
STATION IS A ROD & CAP SET 18.7' BEHIND THE EDGE OF PAVEMENT OF THE NORTH SIDE OF NIKE PARK ROAD, APPROXIMATELY 1625' SOUTH OF THE INTERSECTION WITH BATTERY PARK ROAD

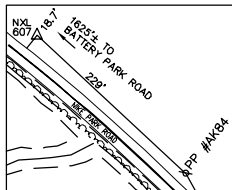


DIAGRAM NOT TO SCALE

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The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.


CONCLUSION

SECTION IV POST CONSTRUCTION STORMWATER MANAGEMENT

TMDL - Total Maximum Daily Load
VDOT - Virginia Department of Transportation
VPDES - Virginia Pollutant Discharge Elimination System
VSMF - Virginia Stormwater Management Program
VESCP - Virginia Erosion and Sediment Control Program

2. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are allowed when discharged in compliance with the VPDES Construction Permit:
 - a. Discharges from fire fighting activities.
 - b. Fire hydrant flushings.
 - c. Waters used to wash vehicles or equipment where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
 - d. Water used to control dust that has been filtered, settled or similarly treated prior to discharge.
 - e. Potable water sources including uncontaminated waterline flushings.
 - f. Routine external building wash down where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.

Sheet 2 of 3

	SHEET NUMBER	STORMWATER POLLUTION PREVENTION PLAN							KHA PROJECT								
	SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1									DATE							
										SCALE AS SHOWN							
										DESIGNED BY							
										DRAWN BY							
		CHECKED BY															
	Kimley»Horn									No.							
	4500 MAIN STREET, SUITE 500, VIRGINIA BEACH, VA 23462 PHONE: 757-213-8600 FAX: 757-213-8601 WWW.KIMLEY-HORN.COM																
																	
										REVISIONS							
										DATE							
										BY							

ACRONYMS

BMP - Best Management Practice
DEQ - Department of Environmental Quality
EPA - U.S. Environmental Protection Agency
ESC - Erosion and Sediment Control
IIM - Instructional and Informational Memorandum
R&B - Road and Bridge
RLD - Responsible Land Disturber
SWM - Stormwater Management
SWPPP - Stormwater Pollution Prevention Plan
TMDL - Total Maximum Daily Load
VDOT - Virginia Department of Transportation
VPDES - Virginia Pollutant Discharge Elimination System
VSPM - Virginia Stormwater Management Program
VESC - Virginia Erosion and Sediment Control Program

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2014 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

* Denotes information that is to be completed by the VDOT RLD.
() See note referenced by number in parentheses.

INSTALLED BMP INFORMATION
Table A
(VDOT Owned/Operated)

[illegible]

ALTERNATIVE BMP INFORMATION
Table B

[illegible]

Table 1: Permanent BMP Types
(1999 Va. SWM Handbook)

Bio-Retention Basin
Bio-Retention Filter
Constructed Stormwater Wetlands
Extended Detention Basin
Extended Detention Basin Enhanced
Grassed Swale
Infiltration Basin
Infiltration Trench
Manufactured Treatment Device
(MTD) (8)
Retention Basin I
Retention Basin II
Retention Basin III
Sand Filter
Vegetated Filter Strip
Other Approved Types (List Type)

Table 3: Permanent BMP Types
(BMP Clearing House)

Sheet Flow to Vegetated Filter Strip
Grass Channel
Soil Compost Amendment
Permeable Pavement
Infiltration Practice
Bioretention
Dry Swale
Wet Swale
Filtering Practice
Constructed Wetlands
Biorention Conservation
Extended Detention Pond
Wet Pond
Manufactured Treatment Device (MTD)(8)
Other Approved Types (List Type) (4)

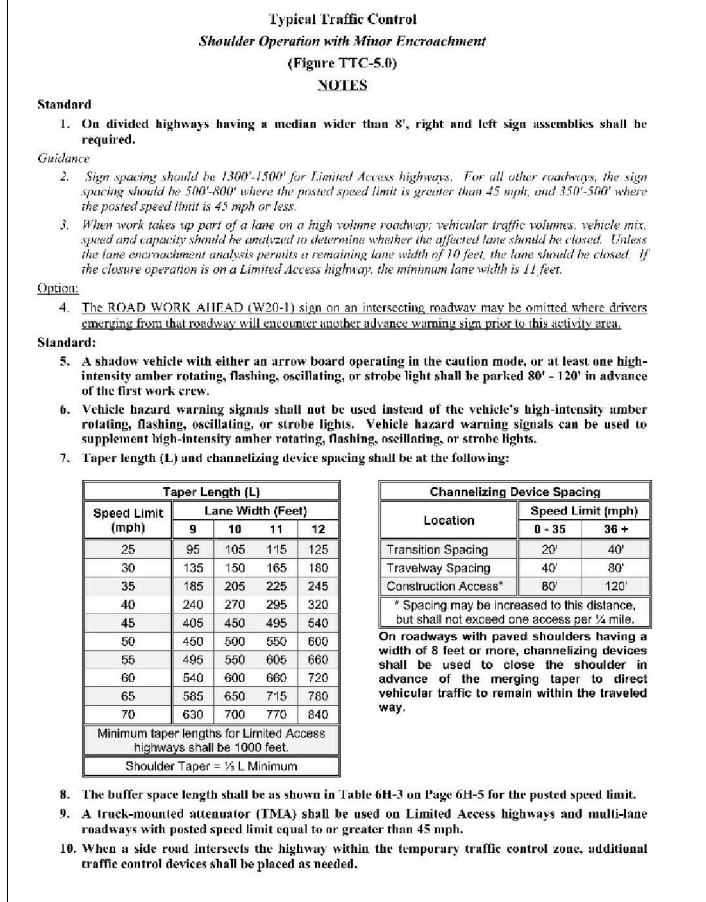
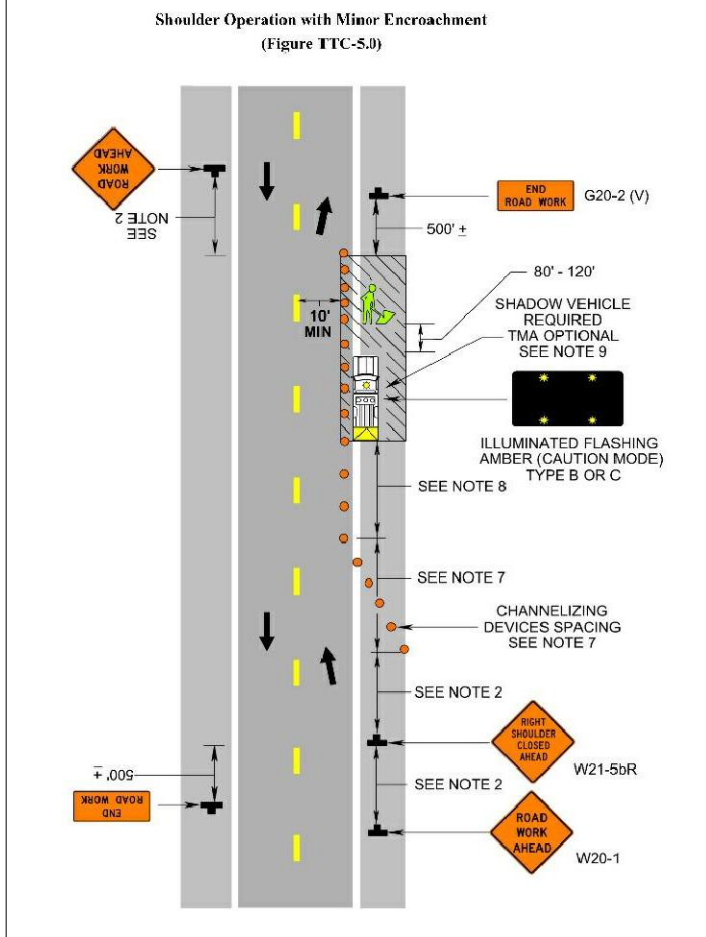
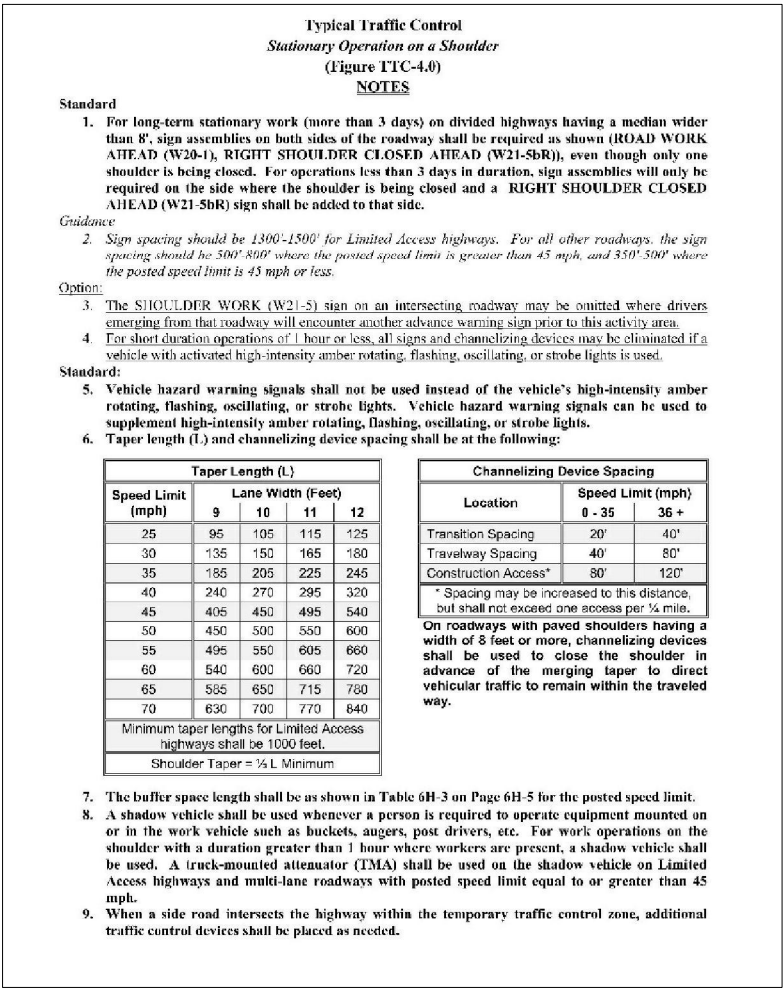
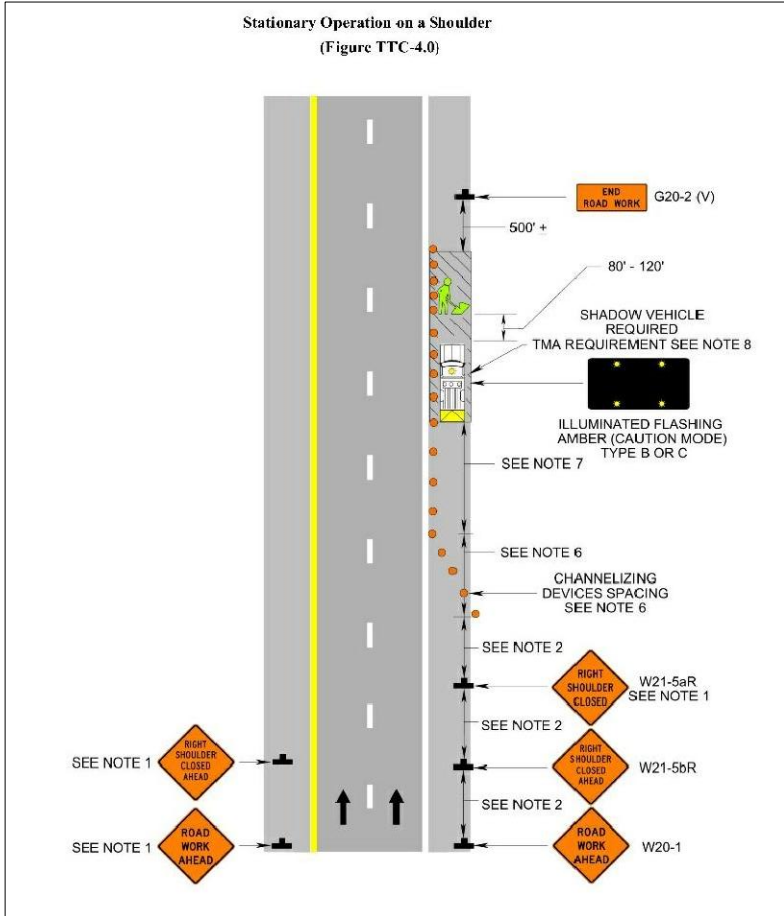
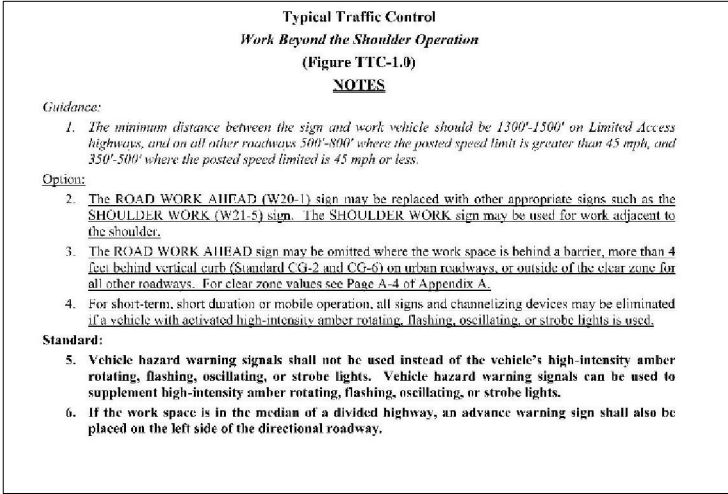
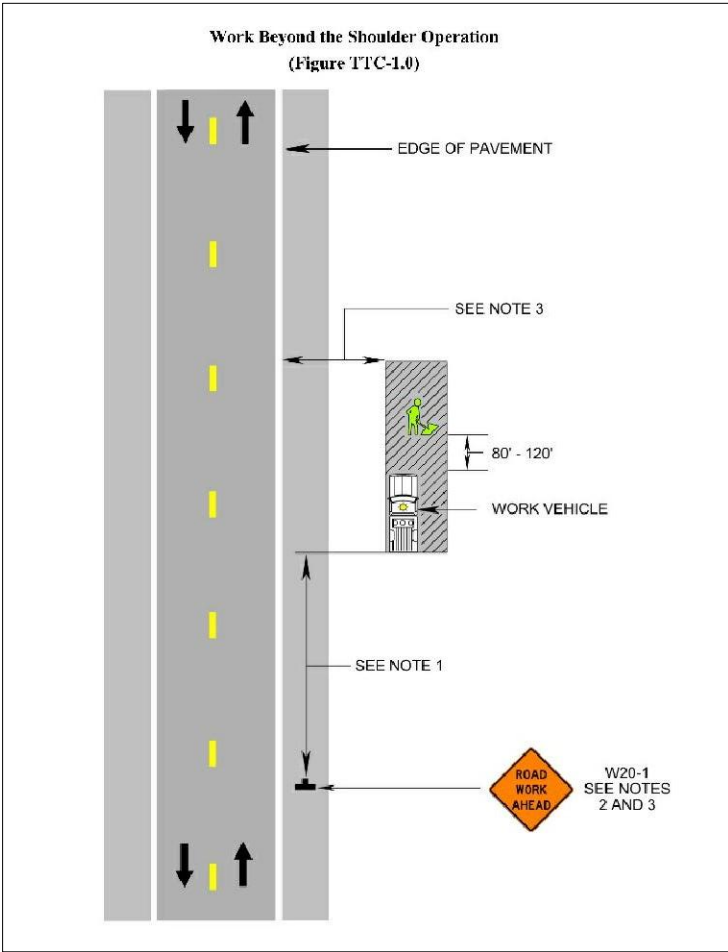
NOTES:

- (1) In decimal degrees to the nearest one ten-thousandth of a degree.
- (2) For streams with no names, list "(Unnamed Tributary to closest stream name)".
- (3) Show acres treated to the nearest one tenth acre.
- (4) Include agreements with off-site BMP owners.
- (5) Information pertains to the alternative BMP option location, where applicable.
Exception - Not required for nutrient credit purchase option.
- (6) Applies to the purchase of nutrient credits only.
- (7) Virginia 6th Order HUC (VAHU6) Example - YO30.
- (8) Final approved shop drawings of Manufactured Treatment Devices (MTDs) are to be included with the BMP information submitted with the LD-445D form.

- (9) List the name of any impaired water to which the BMP discharges. The determination of impaired water shall be based on those streams listed as impaired in the DEQ 2012 305(b)/303(d) Water Quality Assessment Integrated Report and shall be the first named waterbody to which the BMP discharges. The impaired waters are those impaired by sediment, total suspended solids, turbidity, nitrogen or phosphorus. These pollutants are considered benthic impairments.
- (10) BMP Maintenance ID Number is to be assigned by the District Infrastructure Manager at permit termination or project completion.
- (11) Provide the section of each Maintenance manual that pertains to the type of BMP. Both manuals can be found at www.vdot.virginia.gov/business/manuals in the Maintenance selections.
Example: Section 4 would be noted for both the maintenance and inspection manuals for a Bioretention | infiltration BMP.
- (12) Nutrient credits purchased to the nearest one hundredth pound.

△ Any changes to the proposed SWM Plan or BMPs necessitated during the construction phase of the project that affects the proposed construction details or potentially affects the information shown in the BMP Tables A and/or B shall be coordinated by the VDOT RLD with the appropriate VDOT District Hydraulics Engineer. The construction plans and the BMP Tables A and/or B are to be formally revised to reflect any authorized/approved changes to the proposed SWM Plan and/or the proposed BMP construction details. All plan revisions shall be completed in accordance with the Road Design Manual and the Construction Division IIM-CD-2013-12.01, signed and sealed in accordance with Department's sealing and signing policy IIM-LD-243 and filed with the record set of construction plans maintained in the VDOT Central Office Plan File Room (Falcon Web Suite). Prior to submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities, the RLD shall have the District Maintenance Infrastructure Manager review the BMPs installed with the project (BMP Table A) for acceptance of maintenance responsibility and to obtain a Maintenance ID number for each BMP listed in BMP Table A. The RLD shall use the information in BMP Tables A and B along with the assigned Maintenance ID number and the date that the BMP became functional as a permanent control measure (for BMPs in Table A only) to complete the LD-445D form when certifying the construction of the BMPs and submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities.

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KHA PROJECT				DATE		AS SHOWN		DESIGNED BY		DRAWN BY		CHECKED BY	
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL				1E(1)		SEGMENT 1		TRANSPORTATION MANAGEMENT PLAN		KIMLEY-HORN		REVISIONS	
SHEET NUMBER				1E(1)		BY		DATE		No.		REVISIONS	

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COMMONWEALTH OF VIRGINIA

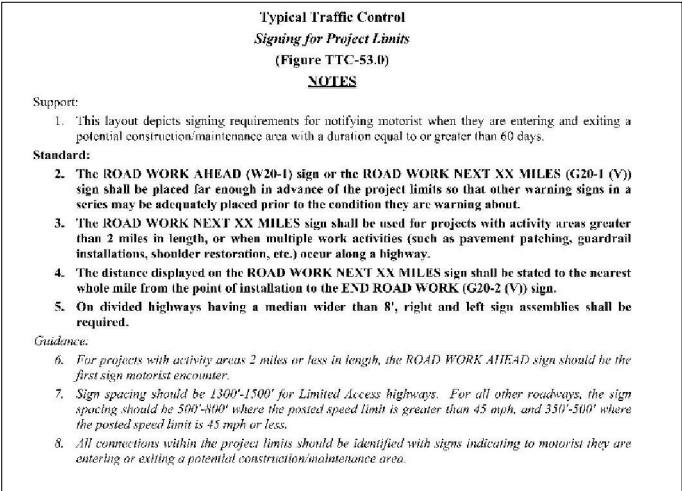
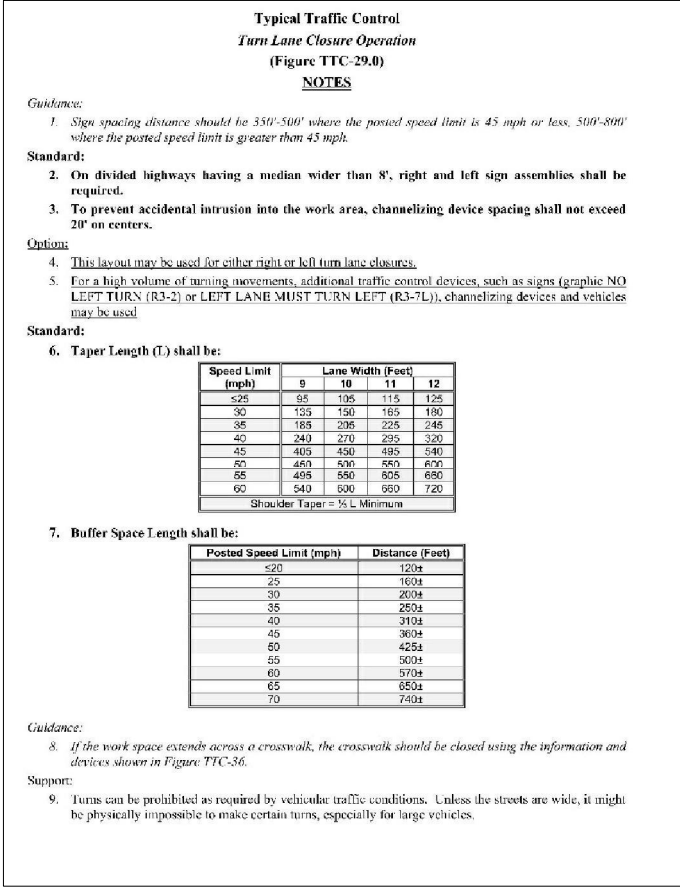
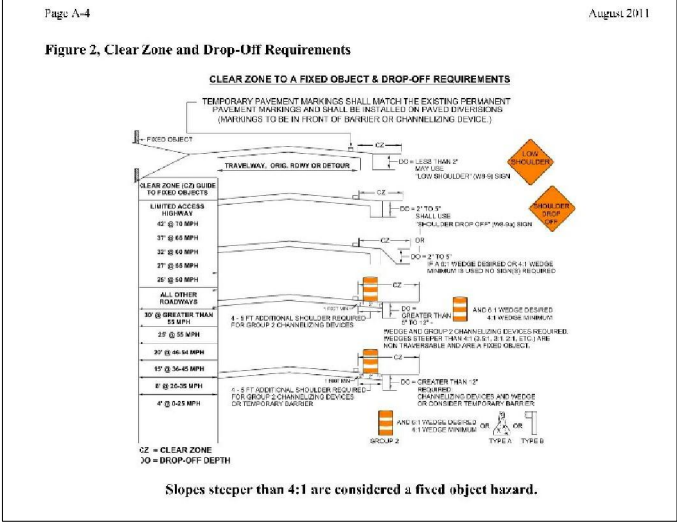
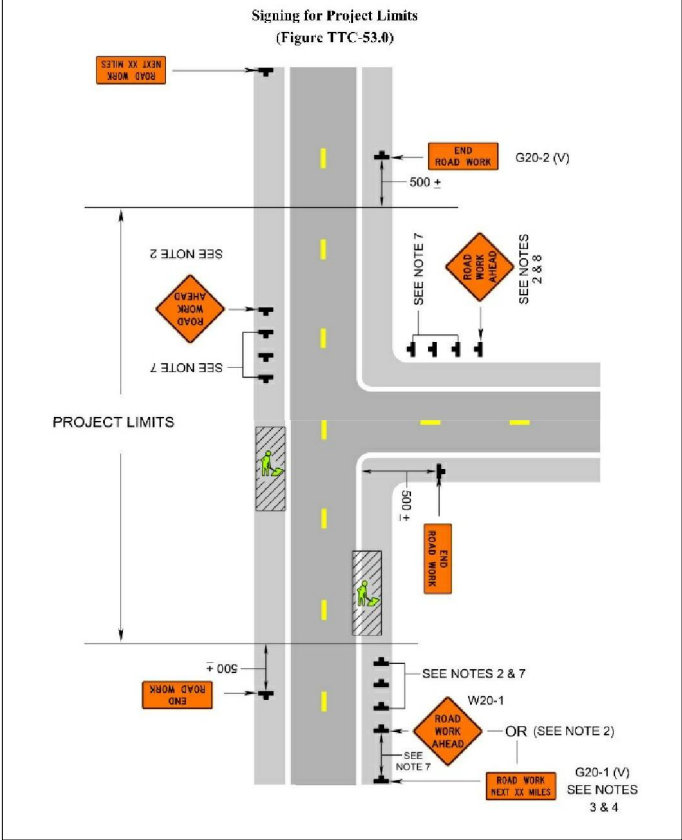
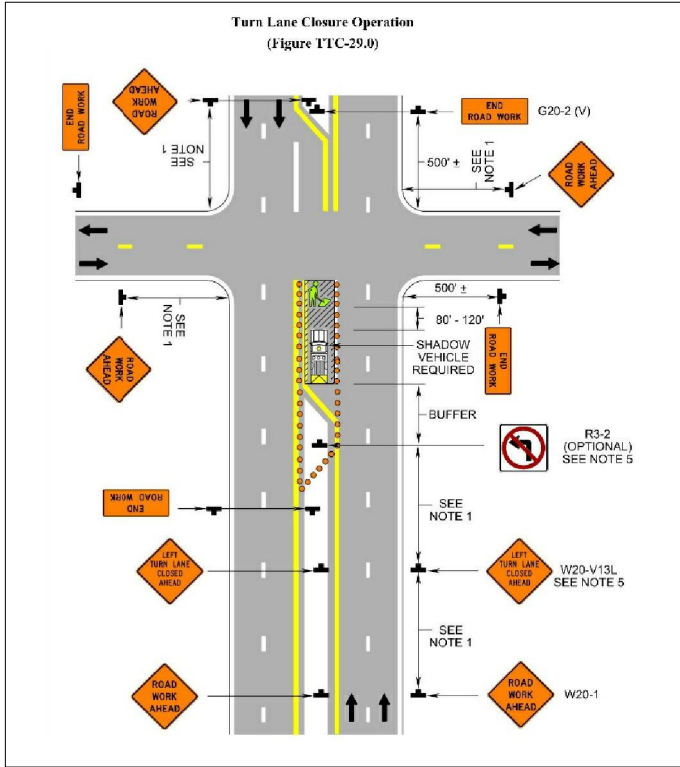
Rebecca R. Jacksch

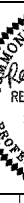

REBECCA R. JACKSCH

Lic. No. 022894

12-12-2016

PROFESSIONAL ENGINEER

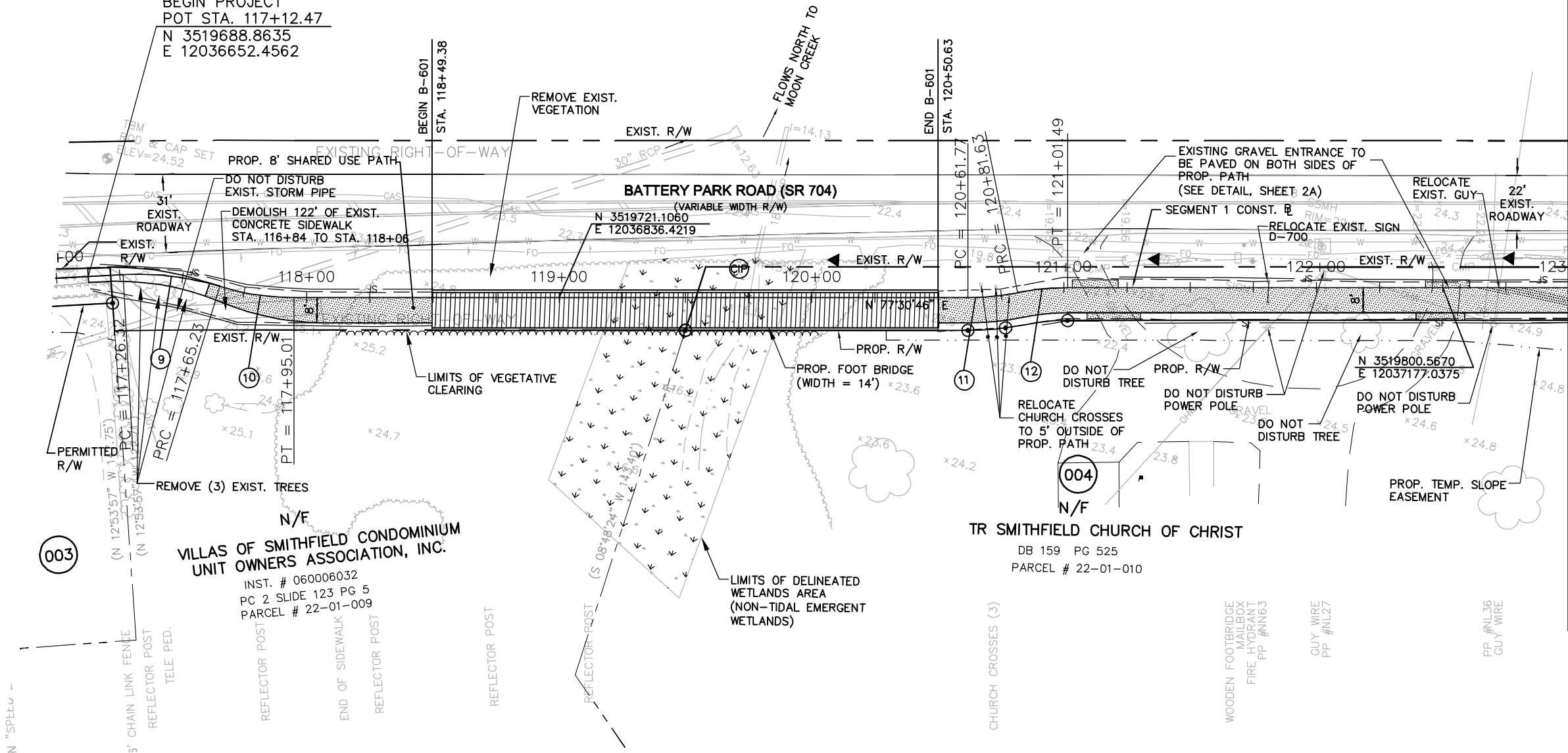
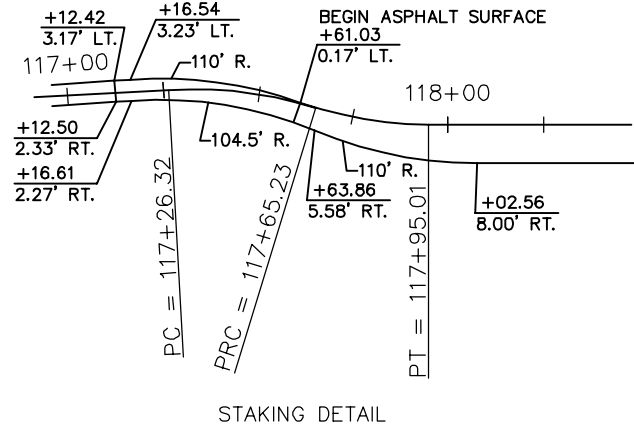


SHEET NUMBER 1E(2)	SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1	TRANSPORTATION MANAGEMENT PLAN	<div>KHA PROJECT</div>	<div></div>				<div> 4500 MAIN STREET, SUITE 500, VIRGINIA BEACH, VA 23462 PHONE: 757-213-6600 FAX: 757-213-6601 WWW.KIMLEY-HORN.COM</div>				No.	REVISIONS	DATE	BY
			<div>DATE</div>	<div>SCALE AS SHOWN</div>	<div>DESIGNED BY</div>	<div>DRAWN BY</div>	<div>CHECKED BY</div>								

Plotted By: Locklear, Lynda - Sheet Set: 117031000 - IOW Trail - Sep 1, 2016 - 02:34:32pm - K:\VAB_RDM\117032000 - IOW Trail Project\Design\Sheet\Segment 1\6. PLAN SHEET.dwg
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003
N/F
VIRGINIA DEPARTMENT
OF TRANSPORTATION
DB 387 PG 744
SHPB 6 PG 144-156

BEGIN CONSTRUCTION
SEGMENT 1 CONST. E
BEGIN PROJECT
POT STA. 117+12.47
N 3519688.8635
E 12036652.4562



MATCHLINE STA. 123+00 SEE SHEET 7

- | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ⑨
Δ = 20' 28' 29" RT
D = 52' 05' 13"
T = 19.66'
L = 38.91'
R = 110.00'
PC = 117+26.32
PI = 117+45.98
PRC = 117+65.23
E = MATCH EXIST.
LS = NOT APPLICABLE | ⑩
Δ = 17' 03' 48" LT
D = 57' 17' 45"
T = 15.00'
L = 29.78'
R = 100.00'
PC = 117+65.23
PI = 117+80.23
PT = 117+95.01
E = MATCH EXIST.
LS = NOT APPLICABLE | ⑪
Δ = 11' 22' 49" LT
D = 57' 17' 45"
T = 9.96'
L = 19.86'
R = 100.00'
PC = 120+61.77
PI = 120+71.73
PRC = 120+81.63
PT = 121+01.49
E = MATCH EXIST.
LS = NOT APPLICABLE | ⑫
Δ = 11' 22' 49" RT
D = 57' 17' 45"
T = 9.96'
L = 19.86'
R = 100.00'
PC = 120+81.63
PI = 120+91.60
PT = 121+01.49
E = MATCH EXIST.
LS = NOT APPLICABLE |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NOTE: WETLANDS WERE DELINEATED ON 6/22/11 BY
KIMLEY-HORN & ASSOCIATES, INC. AND CONFIRMED BY THE
COE BY LETTER DATED 9/20/2011 (NAO-2011-1435)

LEGEND

- | | |
|----------------------------|-------------------------------------|
| EXISTING WETLANDS | PROPOSED VDOT ROCK CHECK DAM TYPE 2 |
| PROPOSED ASPHALT PATH | PROPOSED DITCH |
| PROPOSED CONCRETE SIDEWALK | PROPOSED SILT FENCE |
| PROPOSED BRIDGE | PROPOSED DITCH |
| DENOTES CULVERT PROTECTION | DENOTES INLET PROTECTION |
| TEMP. SLOPE EASEMENT | PROP. RM-2 R/W MONUMENT |
| DENOTES CUT SLOPE | PROP. PROPERTY PIN |
| DENOTES FILL SLOPE | |



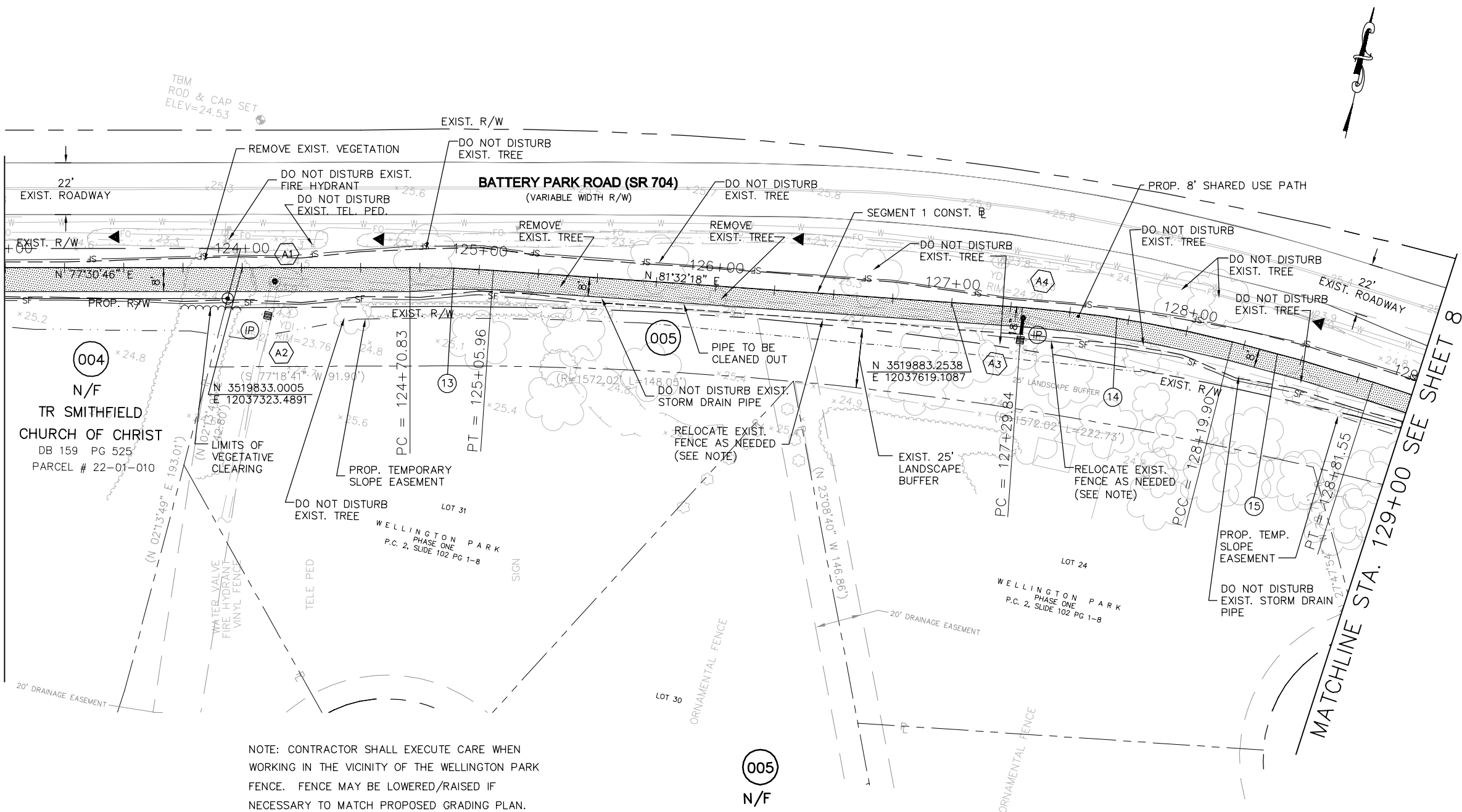
KHA PROJECT 117032000		DATE DEC. 12, 2016	SCALE AS SHOWN	DESIGNED BY CFA	DRAWN BY LUL	CHECKED BY RRJ
PLAN SHEET		STA. 117+00 TO STA. 123+00		SEGMENT 1		
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL		TOWN OF SMITHFIELD		VA		
SHEET NUMBER 6		REVISIONS		DATE		
BY		No.				

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REBECCA R. JUICKSCH
Lic. No. 022894
12-12-2016
PROFESSIONAL ENGINEER

Plotted By: Locklear, Lynda. Sheet Set: 117031000 - OW Trail - March 13, 2017. 03:38:19pm. K:\VAB_FDW\117032000 - OW Trail Project\Design\Sheets\Segment 1\Z PLAN SHEET.dwg
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MATCHLINE STA. 123+00 SEE SHEET 6



NOTE: CONTRACTOR SHALL EXECUTE CARE WHEN WORKING IN THE VICINITY OF THE WELLINGTON PARK FENCE. FENCE MAY BE LOWERED/RAISED IF NECESSARY TO MATCH PROPOSED GRADING PLAN.

WELLINGTON PARK HOMEOWNERS ASSN.
INST. # 050008688
PARCEL # 22R-01-000A

A1 MODIFY EXISTING YARD DROP INLET
CONVERT EXISTING YDI TO MANHOLE
ADJUST TO GRADE. RAISE 1.7'
1 ST'D. MH-1 FRAME & NONSKID COVER REQ'D.
PROPOSED TOP ELEV. 25.62

A2 1 ST'D. DI-1 REQ'D.
H=8.3'
PROP TOP ELEV=24.25
TIE TO EXISTING 36" CPP

A3 1 ST'D. DI-1 REQ'D.
H=8.7' INV=16.35

A3-A4 6' - 18" STORM SEWER PIPE REQ'D. (10' COVER)
INV. (IN) 16.35 INV. (OUT) 16.30

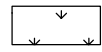
A4 MODIFY EXISTING DROP INLET
ADJUST TO GRADE. RAISE 1.2'
1 ST'D. MH-1 FRAME & NONSKID COVER REQ'D.
PROPOSED TOP ELEV. 25.40
MODIFY TO ACCEPT 36" CONC. PIPE

13
 $\Delta = 04^{\circ} 01' 32''$ RT
 $D = 11^{\circ} 27' 33''$
 $T = 17.57'$
 $L = 35.13'$
 $R = 500.00'$
 $PC = 124+70.83$
 $PI = 124+88.40$
 $PT = 125+05.96$
 $E = 1.00\%$
LS = NOT APPLICABLE

14
 $\Delta = 10^{\circ} 19' 11''$ RT
 $D = 11^{\circ} 27' 33''$
 $T = 45.15'$
 $L = 90.06'$
 $R = 500.00'$
 $PC = 127+29.84$
 $PI = 127+74.99$
 $PCC = 128+19.90$
 $E = 1.00\%$
LS = NOT APPLICABLE

15
 $\Delta = 03^{\circ} 29' 50''$ RT
 $D = 05^{\circ} 40' 22''$
 $T = 30.83'$
 $L = 61.65'$
 $R = 1010.00'$
 $PCC = 128+19.90$
 $PI = 128+50.73$
 $PT = 128+81.55$
 $E = 1.00\%$
LS = NOT APPLICABLE

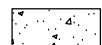
LEGEND



EXISTING WETLANDS



PROPOSED ASPHALT PATH



PROPOSED CONCRETE SIDEWALK



PROPOSED BRIDGE



DENOTES CULVERT PROTECTION

TEMP. SLOPE EASEMENT

PROPOSED VDOT ROCK CHECK DAM TYPE 2

DENOTES CUT SLOPE

DENOTES FILL SLOPE

PROPOSED SILT FENCE

PROPOSED DITCH

DENOTES INLET PROTECTION

PROP. RM-2
R/W MONUMENT

PROP. PROPERTY PIN

0 25' 50'
GRAPHIC SCALE

PLAN SHEET

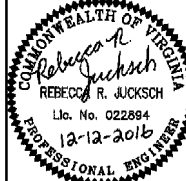
STA. 123+00 TO STA. 129+00

SMITHFIELD TO NIKE PARK
PEDESTRIAN/BICYCLE TRAIL

SEGMENT 1

TOWN OF SMITHFIELD VA

KHA PROJECT
117032000
DATE
DEC. 12, 2016
SCALE
AS SHOWN
DESIGNED BY
CFA
DRAWN BY
LUL
CHECKED BY
RRJ



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REVISIONS
DATE
BY

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LEGEND

EXISTING WETLANDS

PROPOSED ASPHALT PATH

PROPOSED CONCRETE SIDEWALK

PROPOSED BRIDGE

DENOTES CULVERT PROTECTION

TEMP. SLOPE EASEMENT

PROPOSED VDOT ROCK CHECK DAM TYPE 2

DENOTES CUT SLOPE

DENOTES FILL SLOPE

PROPOSED SILT FENCE

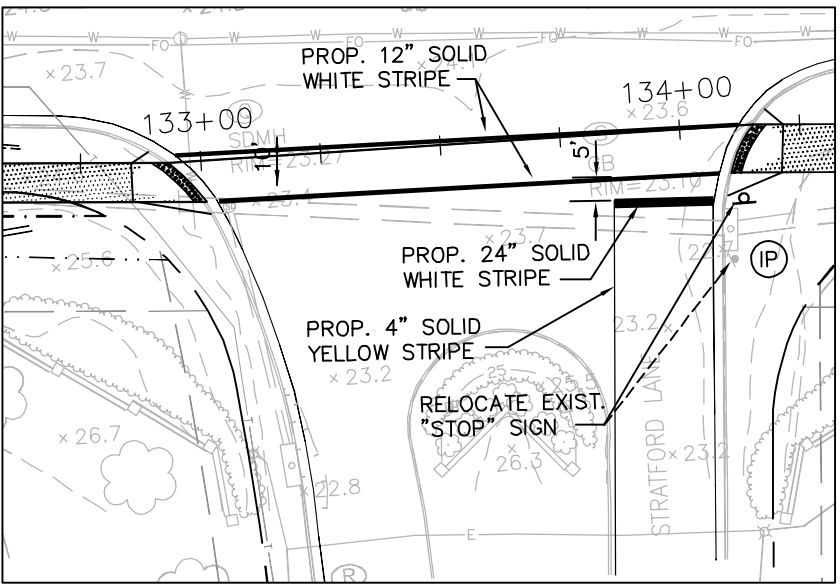
PROPOSED DITCH

DENOTES INLET PROTECTION

PROP. RM-2 R/W MONUMENT

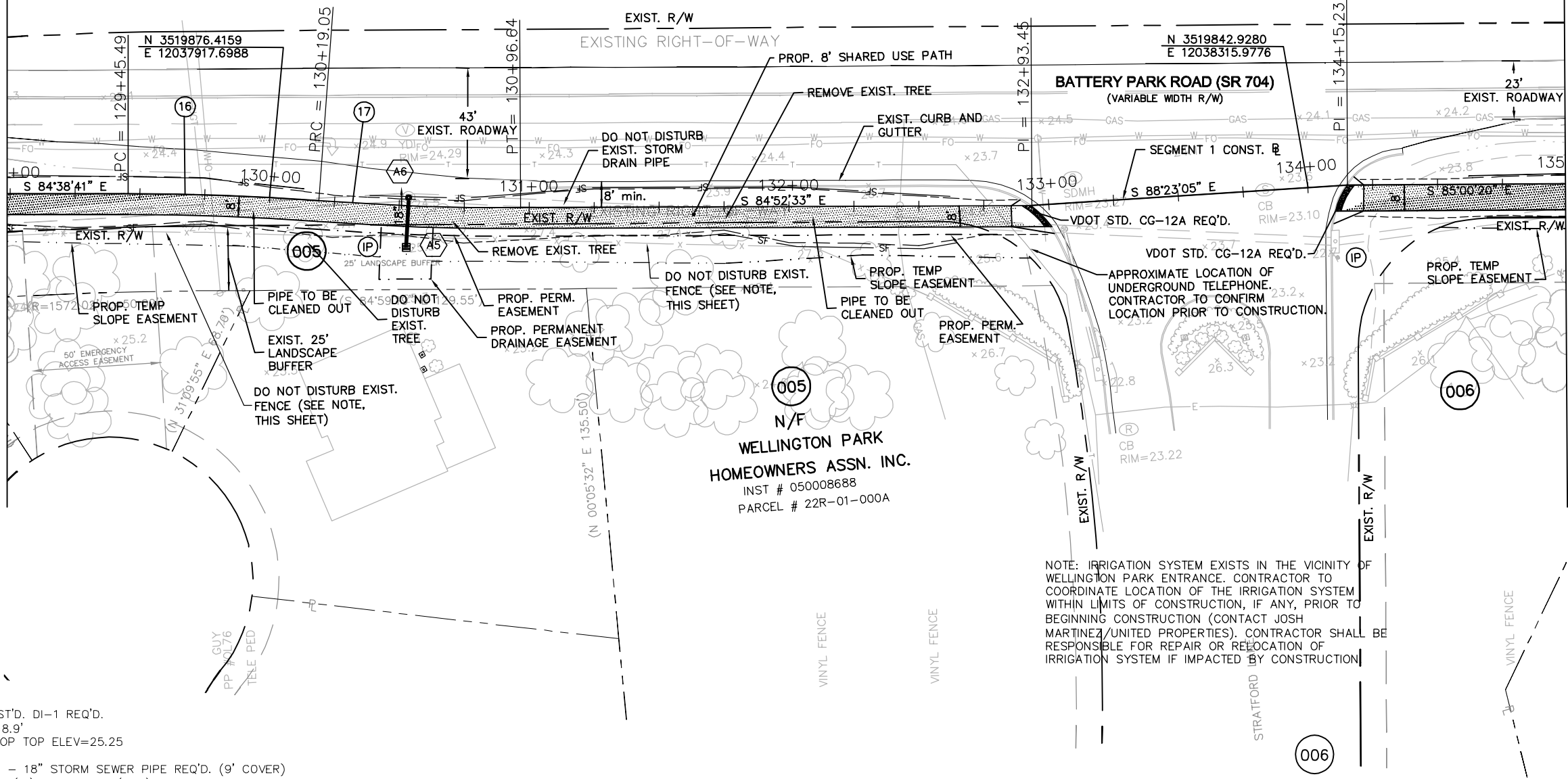
PROP. PROPERTY PIN

PAVEMENT MARKING PLAN STA. 133+50



16	$\Delta = 04^{\circ} 12' 52''$ RT D = $05^{\circ} 43' 46''$ T = 36.79' L = 73.55' R = 1000.00' PC = 129+45.49 PI = 129+82.29 PRC = 130+19.05 E = 1.00% LS = NOT APPLICABLE
17	$\Delta = 04^{\circ} 26' 44''$ LT D = $05^{\circ} 43' 46''$ T = 38.81' L = 77.59' R = 1000.00' PRC = 130+19.05 PI = 130+57.86 PT = 130+96.64 E = 1.00% LS = NOT APPLICABLE

MATCHLINE STA. 129+00 SEE SHEET 7



MATCHLINE STA. 135+00 SEE SHEET 9

- A5

1 ST'D. DI-1 REQ'D.
H=8.9'
PROP TOP ELEV=25.25
- A5-A6

18' - 18" STORM SEWER PIPE REQ'D. (9' COVER)
INV. (IN) 16.70 INV. (OUT) 16.60
- A6

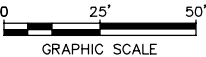
MODIFY EXISTING DROP INLET
ADJUST TO GRADE. RAISE 0.59'
1 ST'D. MH-1 FRAME & NONSKID COVER REQ'D.
PROPOSED TOP ELEV. 24.88
MODIFY TO ACCEPT 36" CONC. PIPE

NOTE: CONTRACTOR SHALL EXECUTE CARE WHEN WORKING IN THE VICINITY OF THE WELLINGTON PARK FENCE. FENCE MAY BE LOWERED/RAISED IF NECESSARY TO MATCH PROPOSED GRADING PLAN.

NOTE: IRRIGATION SYSTEM EXISTS IN THE VICINITY OF WELLINGTON PARK ENTRANCE. CONTRACTOR TO COORDINATE LOCATION OF THE IRRIGATION SYSTEM WITHIN LIMITS OF CONSTRUCTION, IF ANY, PRIOR TO BEGINNING CONSTRUCTION (CONTACT JOSH MARTINEZ/UNITED PROPERTIES). CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR RELOCATION OF IRRIGATION SYSTEM IF IMPACTED BY CONSTRUCTION

WELLINGTON PARK HOMEOWNERS ASSN.

INST. # 050008688
PC 2 SLIDE 102 PG 5
PARCEL # 22R-01-000B



KHA PROJECT 117032000		DATE DEC. 12, 2016	SCALE AS SHOWN	DESIGNED BY CFA	DRAWN BY LUL	CHECKED BY RRJ
PLAN SHEET		STA. 129+00 TO STA. 135+00		VA		
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL		SEGMENT 1		TOWN OF SMITHFIELD		
SHEET NUMBER 8		REVISIONS		BY DATE		

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COMMONWEALTH OF VIRGINIA

REBECCA R. JUICKSCH
Lic. No. 022894
12-12-2016
PROFESSIONAL ENGINEER

[illegible]



MATCHLINE STA. 147+00 SEE SHEET 11



007



▶



---> PROPOSED DITCH

IP

PR
R/

0 25' 50'

GRAPHIC SCALE

SHEET NUMBER		10	
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL		PLAN SHEET	
SEGMENT 1		STA. 141+00 TO STA. 147+00	
TOWN OF SMITHFIELD	VA	KHA PROJECT 117032000	DATE DEC. 12, 2016
		SCALE AS SHOWN	DESIGNED BY CFA
		DRAWN BY LUL	CHECKED BY RJJ
			
			
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No.	REVISIONS	DATE	BY

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007
N/F
WELLINGTON PARK HOMEOWNERS ASSN.
INST. # 050008689
PARCEL # 22R-01-000K

20
 $\Delta = 15^{\circ} 11' 30''$ LT
D = 57' 17' 45"
T = 13.84'
L = 26.51'
R = 100.00'
PC = 147+96.48
PI = 148+09.82
PRC = 148+23.00
E = 1.00%
LS = NOT APPLICABLE

21
 $\Delta = 15^{\circ} 04' 50''$ RT
D = 57' 17' 45"
T = 13.24'
L = 26.32'
R = 100.00'
PRC = 148+23.00
PI = 148+36.23
PT = 148+49.32
E = 1.00%
LS = NOT APPLICABLE

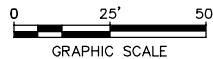
22
 $\Delta = 13^{\circ} 27' 34''$ RT
D = 57' 17' 45"
T = 11.80'
L = 23.49'
R = 100.00'
PC = 149+65.97
PI = 149+77.77
PRC = 149+89.46
E = 1.00%
LS = NOT APPLICABLE

23
 $\Delta = 13^{\circ} 27' 34''$ RT
D = 57' 17' 45"
T = 11.80'
L = 23.49'
R = 100.00'
PRC = 149+89.46
PI = 150+01.26
PT = 150+12.95
E = 1.00%
LS = NOT APPLICABLE

24
 $\Delta = 13^{\circ} 27' 34''$ LT
D = 57' 17' 45"
T = 11.80'
L = 23.49'
R = 100.00'
PC = 150+17.08
PI = 150+28.88
PRC = 150+40.57
E = 1.00%
LS = NOT APPLICABLE

25
 $\Delta = 13^{\circ} 27' 34''$ RT
D = 57' 17' 45"
T = 11.80'
L = 23.49'
R = 100.00'
PRC = 150+40.57
PI = 150+52.37
PT = 150+64.06
E = 1.00%
LS = NOT APPLICABLE

A7
20' - 12" PIPE REQ'D.
INV. (IN) 21.82 INV. (OUT) 21.27
2 ST'D. ES-1 REQ'D.
1.5 TONS ST'D. EC-1 CLASS A1 REQ'D.
TYPE A INSTALLATION



LEGEND



EXISTING WETLANDS



PROPOSED ASPHALT PATH



PROPOSED CONCRETE SIDEWALK



PROPOSED BRIDGE



DENOTES CULVERT PROTECTION

TEMP. SLOPE EASEMENT

PROPOSED VDOT ROCK CHECK DAM TYPE 2

DENOTES CUT SLOPE

DENOTES FILL SLOPE

PROPOSED SILT FENCE

PROPOSED DITCH

DENOTES INLET PROTECTION

PROP. RM-2 R/W MONUMENT

PROP. PROPERTY PIN

MATCHLINE STA. 147+00 SEE SHEET 10

MATCHLINE STA. 153+00 SEE SHEET 12

008
N/F
TR RISING STAR BAPTIST CHURCH
C/O WILLIE BLACK
DB 217 PG 36
PC 2 SLIDE 46 PG 17
PARCEL # 22-01-015

009
N/F
BATTERY PARK STORAGE LLC
INST. # 070000124
PC 2 SLIDE 167 PG 15
PARCEL # 22-01-020

010
N/F
CLEM I. BATTEN
DB 140 PG 35
PARCEL # 22-01-018

011
N/F
CARLENE M. KELLY
INST. # 040005665
PC 2 SLIDE 122 PG 3
PARCEL # 22-01-019

SMITHFIELD TO NIKE PARK
PEDESTRIAN/BICYCLE TRAIL

SEGMENT 1

PLAN SHEET

STA. 147+00 TO STA. 153+00

KHA PROJECT
117032000
DATE
DEC. 12, 2016
SCALE
AS SHOWN
DESIGNED BY
CFA
DRAWN BY
LUL
CHECKED BY
RRJ



Kimley»Horn

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NO.	REVISIONS	DATE	BY

SHEET NUMBER
11

Plotted By: Locklear, Lynda. Sheet Set: 117031000 - IOW Trail - Seq. 1. Layout: 12. March 13, 2017. 03:36:47pm. K:\VAB_RDPX\117032000 - IOW Trail Project\Design\Sheets\Segment_1\12 PLAN SHEET.dwg
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A15

8' - 15" PIPE REQ'D.
INV. (IN) 20.91 INV. (OUT) 20.87
1 ST'D. ES-1 REQ'D.
3.3 TONS ST'D. EC-1 CLASS A1 REQ'D.
TYPE A INSTALLATION

LEGEND



EXISTING WETLANDS



PROPOSED ASPHALT PATH



PROPOSED CONCRETE SIDEWALK



PROPOSED BRIDGE



DENOTES CULVERT PROTECTION

--- TEMP. SLOPE EASEMENT



PROPOSED VDOT ROCK CHECK DAM TYPE 2



DENOTES CUT SLOPE



DENOTES FILL SLOPE



PROPOSED SILT FENCE



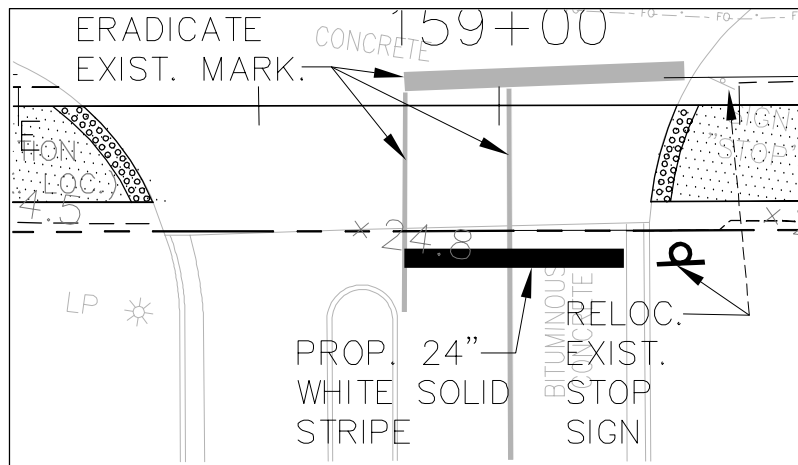
PROPOSED DITCH



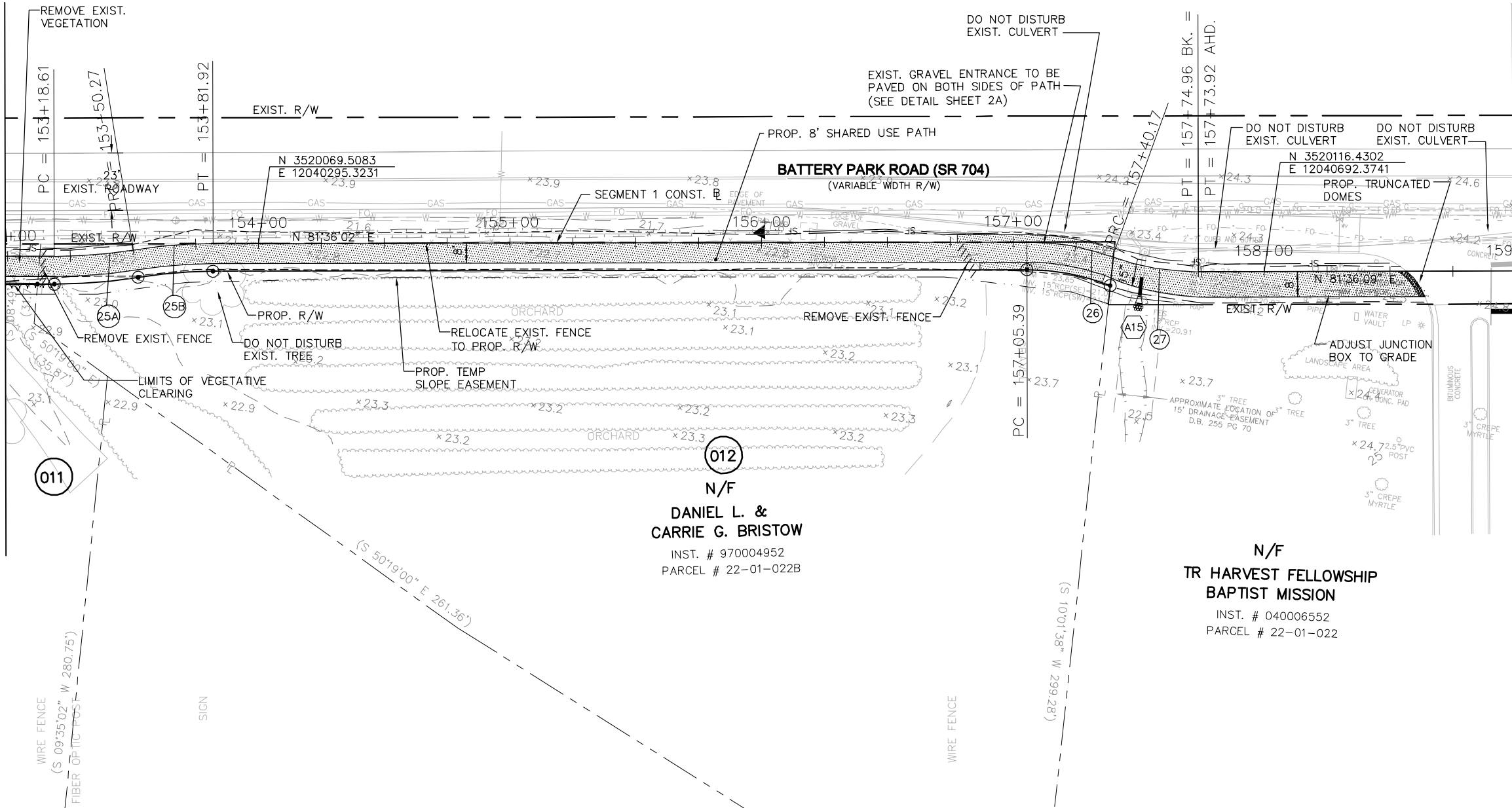
DENOTES INLET PROTECTION

● PROP. RM-2 R/W MONUMENT

• PROP. PROPERTY PIN



MATCHLINE STA. 153+00 SEE SHEET 11



MATCHLINE STA. 159+00 SEE SHEET 13

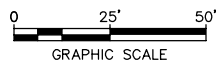
011
N/F
CARLENE M. KELLY
INST. # 040005665
PC 2 SLIDE 122 PG 3
PARCEL # 22R-01-019

25A
 $\Delta = 09^\circ 04' 07''$ LT
D = 28' 38' 52"
T = 15.86'
L = 31.66'
R = 200.00'
PC = 153+50.27
PI = 153+34.47
PRC = 153+50.27
E = 1.00%
LS = NOT APPLICABLE

25B
 $\Delta = 09^\circ 04' 07''$ RT
D = 28' 38' 52"
T = 15.86'
L = 31.66'
R = 200.00'
PC = 153+50.27
PI = 153+66.13
PT = 153+81.92
E = 1.00%
LS = NOT APPLICABLE

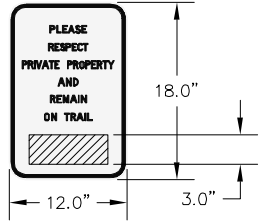
26
 $\Delta = 19^\circ 55' 56''$ RT
D = 57' 17' 45"
T = 17.57'
L = 34.79'
R = 100.00'
PC = 157+05.39
PI = 157+22.96
PRC = 157+40.17
E = 1.00%
LS = NOT APPLICABLE

27
 $\Delta = 19^\circ 55' 49''$ LT
D = 57' 17' 45"
T = 17.57'
L = 34.79'
R = 100.00'
PC = 157+40.17
PI = 157+57.74
PT = 157+74.96
E = 1.00%
LS = NOT APPLICABLE



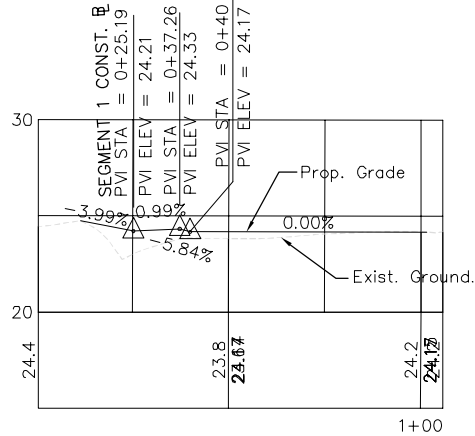
KHA PROJECT				DATE				SCALE				DESIGNED BY				DRAWN BY				CHECKED BY			
117032000				DEC. 12, 2016				AS SHOWN				CFA				LUL				RRJ			
PLAN SHEET				STA. 153+00 TO STA. 159+00				SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL				SEGMENT 1				TOWN OF SMITHFIELD				VA			
SHEET NUMBER				12				KIMLEY-HORN				REBECCA R. JUICKSCH				PROFESSIONAL ENGINEER				12-12-2016			
4500 MAIN STREET, SUITE 500, VIRGINIA BEACH, VA 23462				PHONE: 757-213-8600 FAX: 757-213-8601				WWW.KIMLEY-HORN.COM				© 2016 KIMLEY-HORN AND ASSOCIATES, INC.				4500 MAIN STREET, SUITE 500, VIRGINIA BEACH, VA 23462				PHONE: 757-213-8600 FAX: 757-213-8601			
No.				REVISIONS				DATE				BY											

Plotted By: Locklear, Lynda. Sheet Spt: 117031000 - LOW Trail - Sep 11. Layout: 13. May 05, 2017. 04:16:00pm. K:\VAB_RDM\117032000 - LOW Trail Project\Design\Sheets\Segment 1\13 PLAN SHEET.dwg
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SIGN DETAIL-
LOCATION TO
BE DETERMINED

Entrance Profile
Sta. 164+75 Rt.



LEGEND

EXISTING WETLANDS

PROPOSED ASPHALT PATH

PROPOSED CONCRETE SIDEWALK

PROPOSED BRIDGE

DENOTES CULVERT PROTECTION

TEMP. SLOPE EASEMENT

PROPOSED VDOT ROCK CHECK DAM TYPE 2

DENOTES CUT SLOPE

DENOTES FILL SLOPE

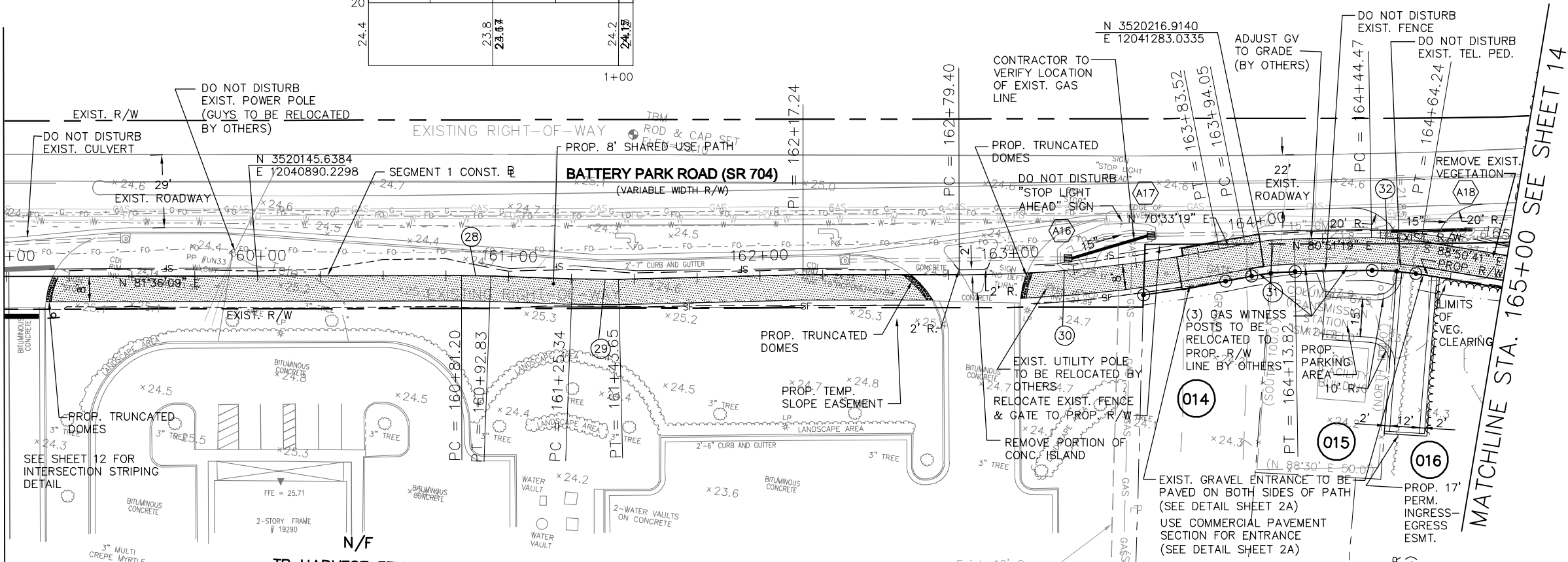
PROPOSED SILT FENCE

PROPOSED DITCH

DENOTES INLET PROTECTION

PROP. RM-2 R/W MONUMENTPROP. PROPERTY PIN

MATCHLINE STA. 159+00 SEE SHEET 12



MATCHLINE STA. 165+00 SEE SHEET 14

014
N/F

RYLAND B. EDWARDS, JR., MARY ANN D. EDWARDS,
RYLAND B. EDWARDS, III & FRANK GARRETT EDWARDS,
TRUSTEES OF THE RYLAND B. EDWARDS REVOCABLE
TRUST AND MARY ANN D. EDWARDS, RYLAND B.
EDWARDS, JR., RYLAND B. EDWARDS III & FRANK
GARRETT EDWARDS, TRUSTEES OF THE MARY ANN D.
EDWARDS REVOCABLE TRUST

INST. # 070004610, DB 295 PG 86
PB 10 PG 24
PARCEL # 22-01-022A

015
N/F

DOMINION TRANSMISSION
DB 244 PG 202
PARCEL # 22-01-024C

30

$\Delta = 11^{\circ} 02' 50''$ LT
 $D = 10^{\circ} 36' 37''$
 $T = 52.22'$
 $L = 104.12'$
 $R = 540.00'$
 $PC = 162+79.40$
 $PI = 163+31.62$
 $PT = 163+83.52$
 $E = 1.00\%$
 $LS =$ NOT APPLICABLE

31

$\Delta = 10^{\circ} 18' 00''$ RT
 $D = 52^{\circ} 05' 13''$
 $T = 9.91'$
 $L = 19.77'$
 $R = 110.00'$
 $PC = 163+94.05$
 $PI = 164+54.38$
 $PT = 164+13.82$
 $E = 1.00\%$
 $LS =$ NOT APPLICABLE

32

$\Delta = 10^{\circ} 18' 00''$ RT
 $D = 52^{\circ} 05' 13''$
 $T = 9.91'$
 $L = 19.77'$
 $R = 110.00'$
 $PC = 164+44.47$
 $PI = 164+54.38$
 $PT = 164+64.24$
 $E =$ MATCH EXIST.
 $LS =$ NOT APPLICABLE

016
N/F

JOSEPH WARREN MOORE
DB 287 PG 685
DB 281 PG 520
PARCEL # 22-01-024

A16-A17

1 ST'D. DI-1 REQ'D.
H=2.4' INV. 21.89

A17

1 ST'D. DI-1 REQ'D.
H=2.4' INV. 21.8

A18

32' - 15" PIPE REQ'D. (1' COVER)
INV. (IN) 21.85 CONNECT TO EXIST. PIPE
INV. (OUT) 21.76



SMITHFIELD TO NIKE PARK
PEDESTRIAN/BICYCLE TRAIL
SEGMENT 1

VA
TOWN OF SMITHFIELD

PLAN SHEET

STA. 159+00 TO STA. 165+00

KHA PROJECT
117032000
DATE
DEC. 12, 2016
SCALE AS SHOWN
DESIGNED BY
CFA
DRAWN BY
LUL
CHECKED BY
RRJ

COMMONWEALTH OF VIRGINIA
REBECCA R. JUCKSCH
Lic. No. 022894
12-12-2016
PROFESSIONAL ENGINEER

Kimley»Horn
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REVISIONS
NO. DATE BY

SHEET NUMBER
13

Plotted By: Locklear, Lynda. Sheet Set: 117031000 - IOW Trail - Sep 1, 2017. Layout: 14. March 17, 2017. 01:41:12pm. K:\VAB_BDW\117031000 - IOW Trail Project\Design\Sheets\Segment 1\14.PLAN SHEET.dwg
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A8
20' - 12" PIPE REQ'D.
INV. (IN) 22.73 INV. (OUT) 21.81
2 ST'D. ES-1 REQ'D.
1.5 TONS ST'D. EC-1 CLASS A1 REQ'D.
TYPE A INSTALLATION

LEGEND

EXISTING WETLANDS

PROPOSED ASPHALT PATH

PROPOSED CONCRETE SIDEWALK

PROPOSED BRIDGE

DENOTES CULVERT PROTECTION

TEMP. SLOPE EASEMENT

PROPOSED VDOT ROCK CHECK DAM TYPE 2

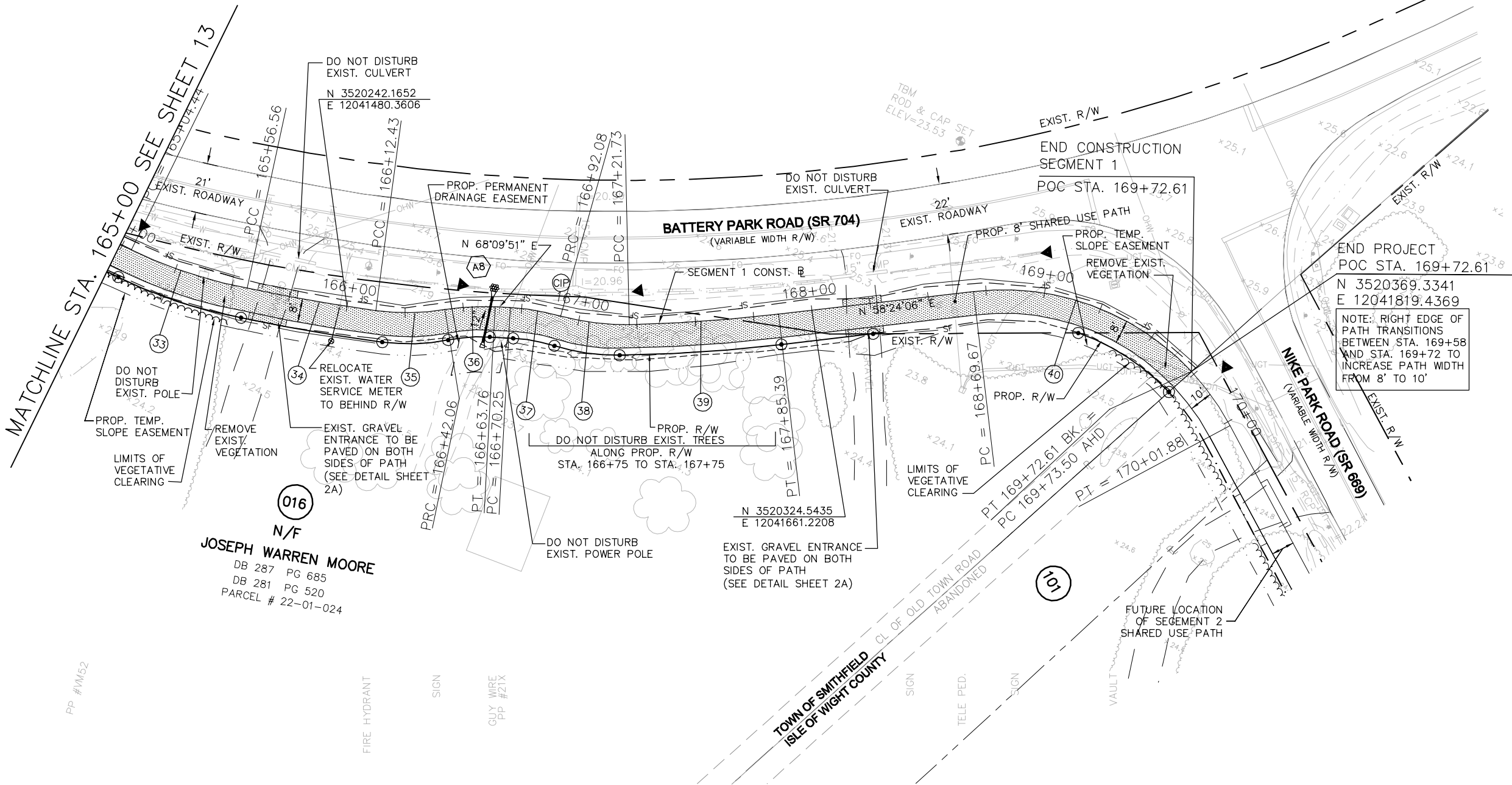
DENOTES CUT SLOPE

DENOTES FILL SLOPE

PROPOSED SILT FENCE

PROPOSED DITCH

DENOTES INLET PROTECTION

PROP. RM-2 R/W MONUMENTPROP. PROPERTY PIN

33
 $\Delta = 15^\circ 43' 00''$ LT
 $D = 30' 09' 20''$
 $T = 26.22'$
 $L = 52.12'$
 $R = 190.00'$
 $PC = 165+04.44$
 $PI = 165+30.66$
 $PCC = 165+56.56$
 $E = 1.00\%$
 $LS = \text{NOT APPLICABLE}$

34
 $\Delta = 4^\circ 38' 21''$ LT
 $D = 8' 18' 13''$
 $T = 27.95'$
 $L = 55.87'$
 $R = 690.00'$
 $PCC = 165+56.56$
 $PI = 165+84.51$
 $PCC = 166+12.43$
 $E = 1.00\%$
 $LS = \text{NOT APPLICABLE}$

35
 $\Delta = 16^\circ 58' 50''$ LT
 $D = 57' 17' 45''$
 $T = 14.93'$
 $L = 29.64'$
 $R = 100.00'$
 $PCC = 166+12.43$
 $PI = 166+27.35$
 $PRC = 166+42.06$
 $E = 1.00\%$
 $LS = \text{NOT APPLICABLE}$

36
 $\Delta = 12^\circ 25' 48''$ RT
 $D = 57' 17' 45''$
 $T = 10.89'$
 $L = 21.69'$
 $R = 100.00'$
 $PRC = 166+42.06$
 $PI = 166+81.21$
 $PT = 166+63.76$
 $E = 1.00\%$
 $LS = \text{NOT APPLICABLE}$

37
 $\Delta = 12^\circ 30' 34''$ RT
 $D = 57' 17' 45''$
 $T = 10.96'$
 $L = 21.83'$
 $R = 100.00'$
 $PC = 166+70.25$
 $PI = 167+07.02$
 $PRC = 166+92.08$
 $E = 1.00\%$
 $LS = \text{NOT APPLICABLE}$

38
 $\Delta = 16^\circ 59' 10''$ LT
 $D = 57' 17' 45''$
 $T = 14.93'$
 $L = 29.65'$
 $R = 100.00'$
 $PRC = 166+92.08$
 $PI = 167+07.02$
 $PCC = 167+21.73$
 $PT = 167+85.39$
 $E = 1.00\%$
 $LS = \text{NOT APPLICABLE}$

39
 $\Delta = 5^\circ 17' 09''$ LT
 $D = 8' 18' 13''$
 $T = 31.85'$
 $L = 63.65'$
 $R = 690.00'$
 $PCC = 167+21.73$
 $PI = 167+53.58$
 $PT = 167+85.39$
 $E = 1.00\%$
 $LS = \text{NOT APPLICABLE}$

40
 $\Delta = 68^\circ 23' 53''$ RT
 $D = 52' 05' 13''$
 $T = 55.58'$
 $L = 102.94'$
 $R = 110.00'$
 $PC = 168+69.67$
 $PI = 169+25.26$
 $PT = 169+72.61$
 $E = 1.00\%$
 $LS = \text{NOT APPLICABLE}$



SMITHFIELD TO NIKE PARK
PEDESTRIAN/BICYCLE TRAIL
SEGMENT 1

PLAN SHEET

STA. 165+00 TO STA. 169+72

Kimley»Horn

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REBECCA R. JUCKSCH
Lic. No. 022894
12-12-2016
PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA

REBECCA R. JUCKSCH

Lic. No. 022894

12-12-2016

PROFESSIONAL ENGINEER

KHA PROJECT
117032000

DATE
DEC. 12, 2016

SCALE
AS SHOWN

DESIGNED BY
CFA

DRAWN BY
LUL

CHECKED BY
RRJ

SHEET NUMBER

14

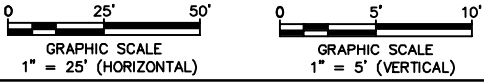
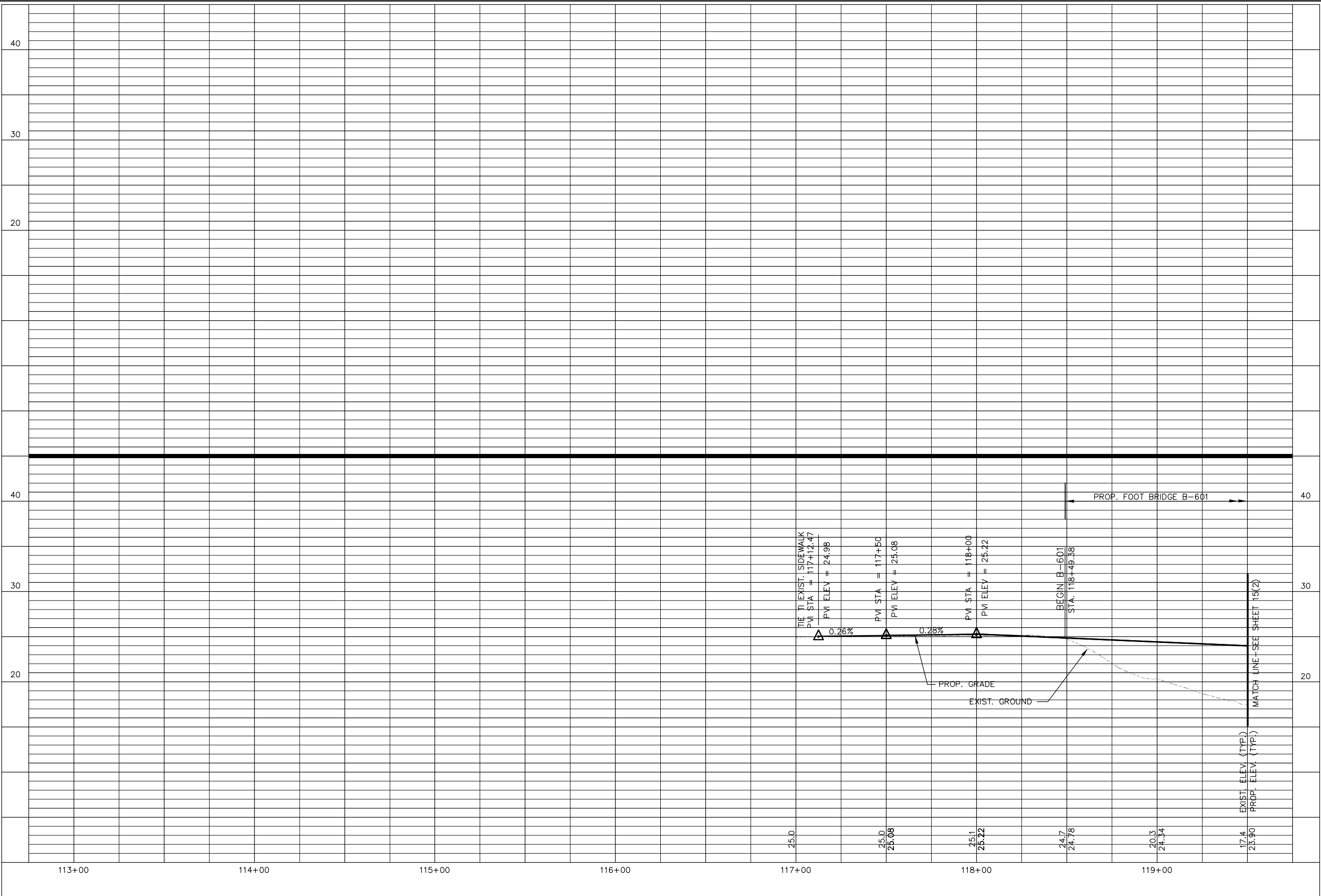
REVISIONS

DATE

BY

Plotted By: Locklear, Lynda - Sheet Set: 117031000 - LOW Trill - Layout: 15 - December 12, 2016 02:52:01pm K:\VAB_RDW\117032000 - LOW Trill Project\Design\Sheets\Segment 1\15(1) PROFILE SHEET.dwg

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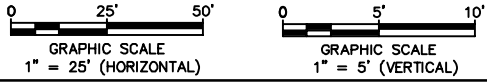
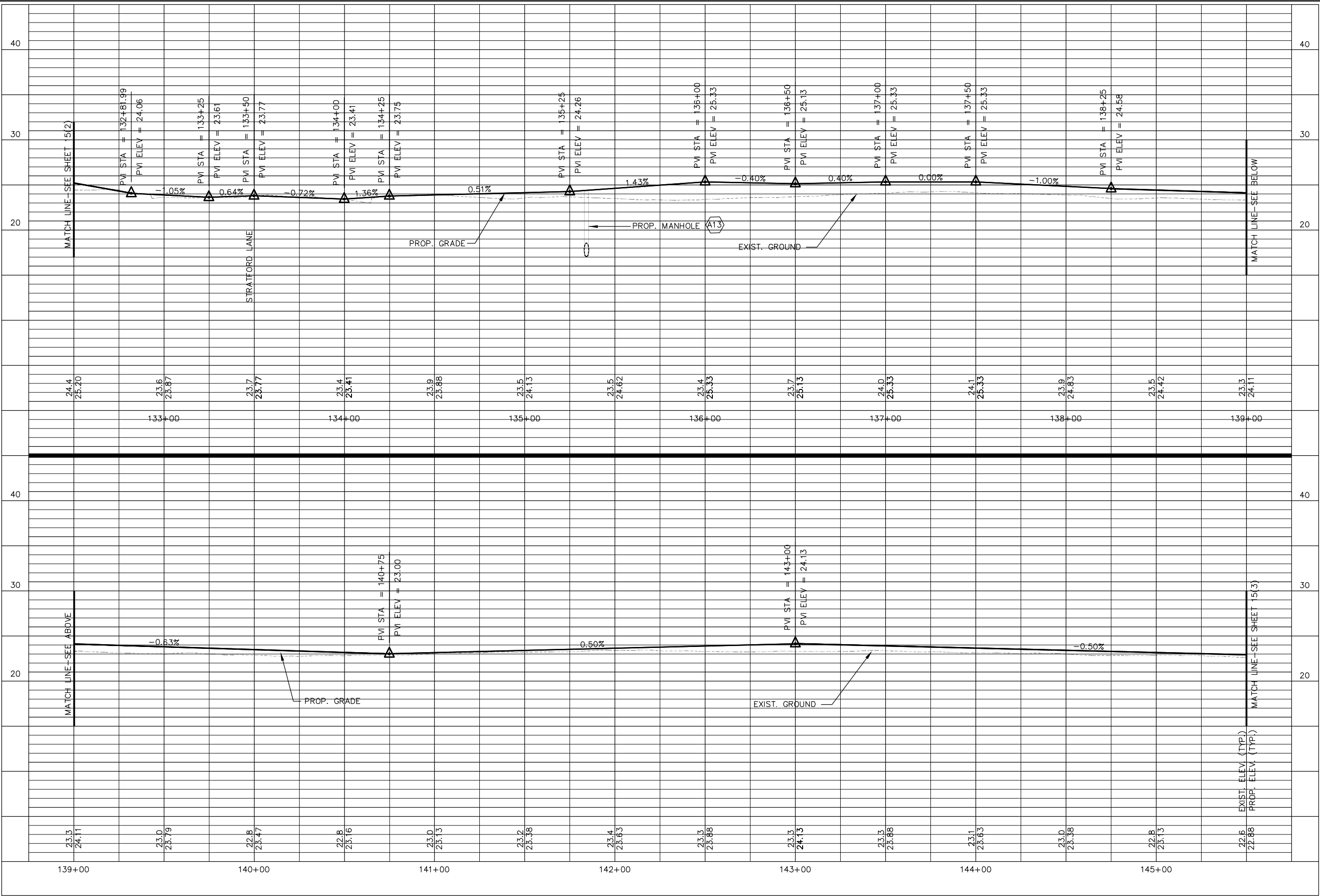
KHA PROJECT 117032000		DATE DEC. 12, 2016	
SCALE AS SHOWN		DESIGNED BY CPA	
DRAWN BY LUL		CHECKED BY RRJ	
PROFILE SHEET STA 106+50 TO STA 119+50			
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL		VA	
SEGMENT 1		TOWN OF SMITHFIELD	
SHEET NUMBER 15(1)		REVISIONS	
No.		DATE	
BY		BY	

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12-12-2016
PROFESSIONAL ENGINEER

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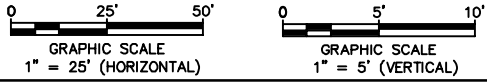
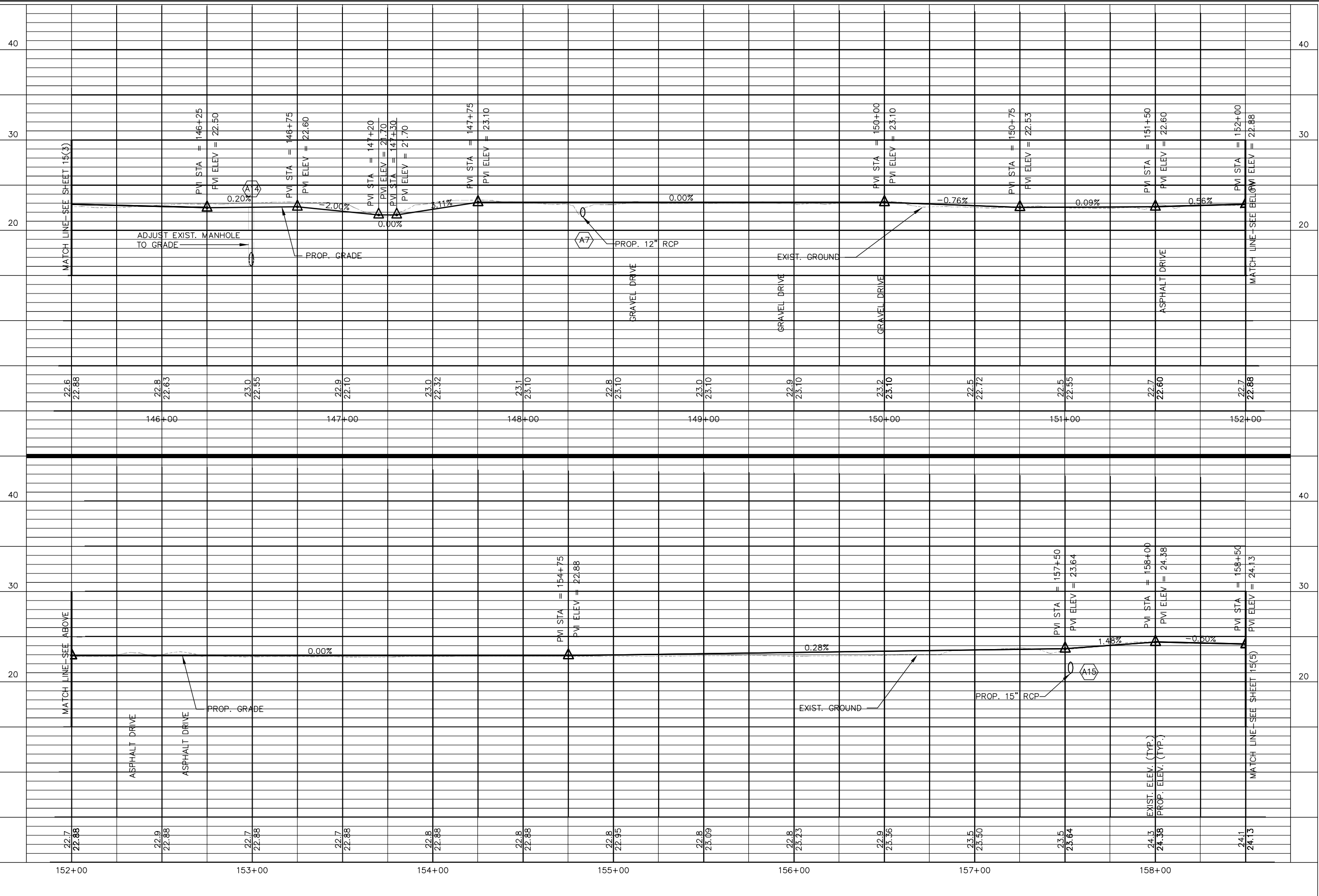
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SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1	PROFILE SHEET STA 132+50 TO STA 145+50	KHA PROJECT 117032000 DATE DEC. 12, 2016 SCALE AS SHOWN DESIGNED BY CPA DRAWN BY LUL CHECKED BY RRJ	 REBECCA R. JUCKSCH Lic. No. 022894 12-12-2016 PROFESSIONAL ENGINEER	 © 2016 KIMLEY-HORN AND ASSOCIATES, INC. 4500 MAIN STREET, SUITE 500, VIRGINIA BEACH, VA 23462 PHONE: 757-213-8600 FAX: 757-213-8601 WWW.KIMLEY-HORN.COM	No.	REVISIONS	DATE	BY

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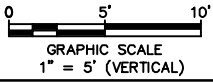
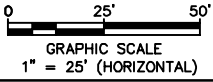
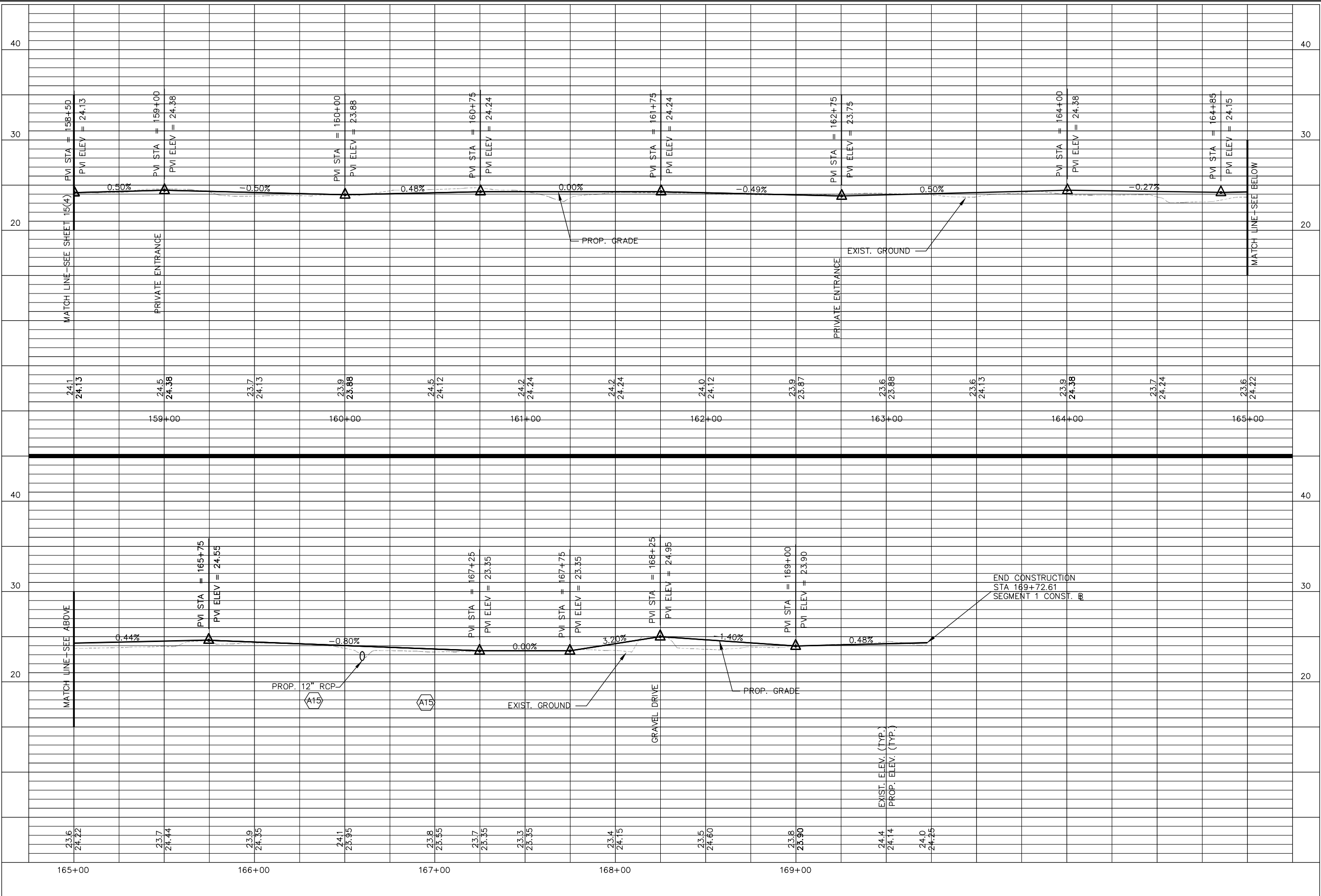
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SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1	KHA PROJECT 117032000 DATE DEC. 12, 2016 SCALE AS SHOWN DESIGNED BY CPA DRAWN BY LUL CHECKED BY RRF	PROF. R. JUCKSCH REBECCA R. JUCKSCH Lic. No. 022894 12-12-2016 PROFESSIONAL ENGINEER	 © 2016 KIMLEY-HORN AND ASSOCIATES, INC. 4500 MAIN STREET, SUITE 500, VIRGINIA BEACH, VA 23462 PHONE: 757-213-8800 FAX: 757-213-8801 WWW.KIMLEY-HORN.COM	No.	REVISIONS	DATE	BY

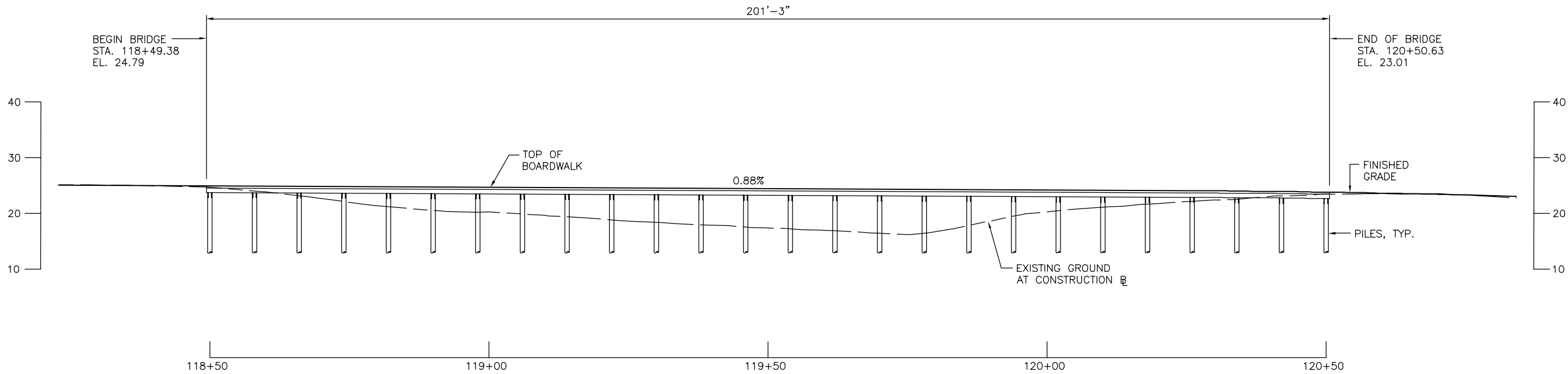
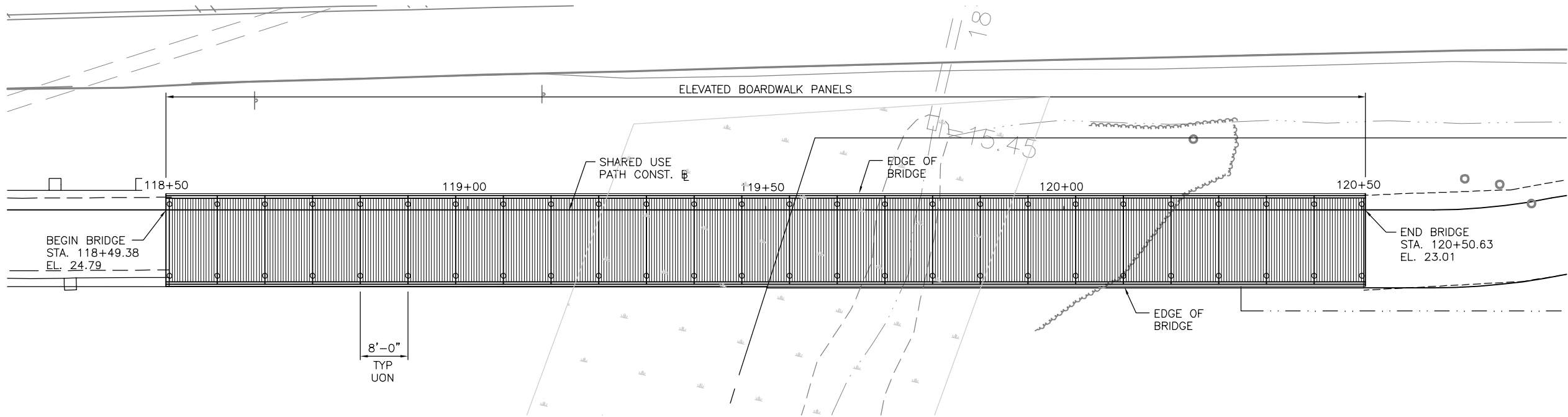
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SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1	PROFILE SHEET STA 158+50 TO STA 169+72.61			KHA PROJECT 117032000	DATE	DEC. 12, 2016
					SCALE	AS SHOWN
					DESIGNED BY	CFA
					DRAWN BY	LUL
TOWN OF SMITHFIELD	VA			CHECKED BY	RRJ	
SHEET NUMBER 15(5)		REVISIONS		No.		
				BY		

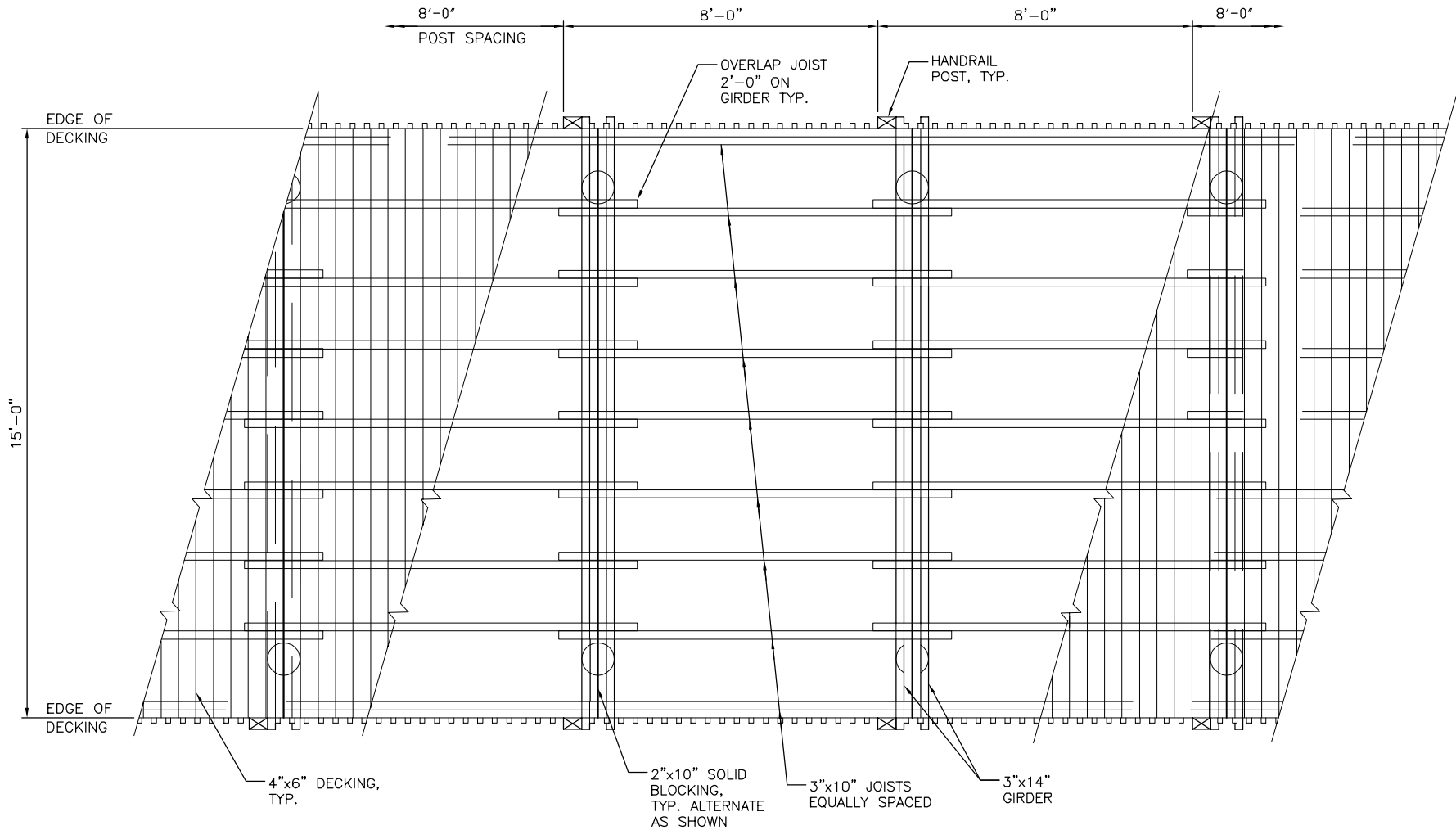
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KHA PROJECT 117032000		DATE SEP. 22, 2016	SCALE AS SHOWN	DESIGNED BY CPE	DRAWN BY PHH	CHECKED BY CPE
PEDESTRIAN BRIDGE		B-601 PLAN & DEVELOPED SECTION		SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1		
SHEET NUMBER 16(1)		ISLE OF WIGHT		VA		
Kimley»Horn		4500 MAIN STREET, SUITE 500, VIRGINIA BEACH, VA 23462 PHONE: 757-213-8601 FAX: 757-213-8601 WWW.KIMLEY-HORN.COM		No. REVISIONS DATE BY		

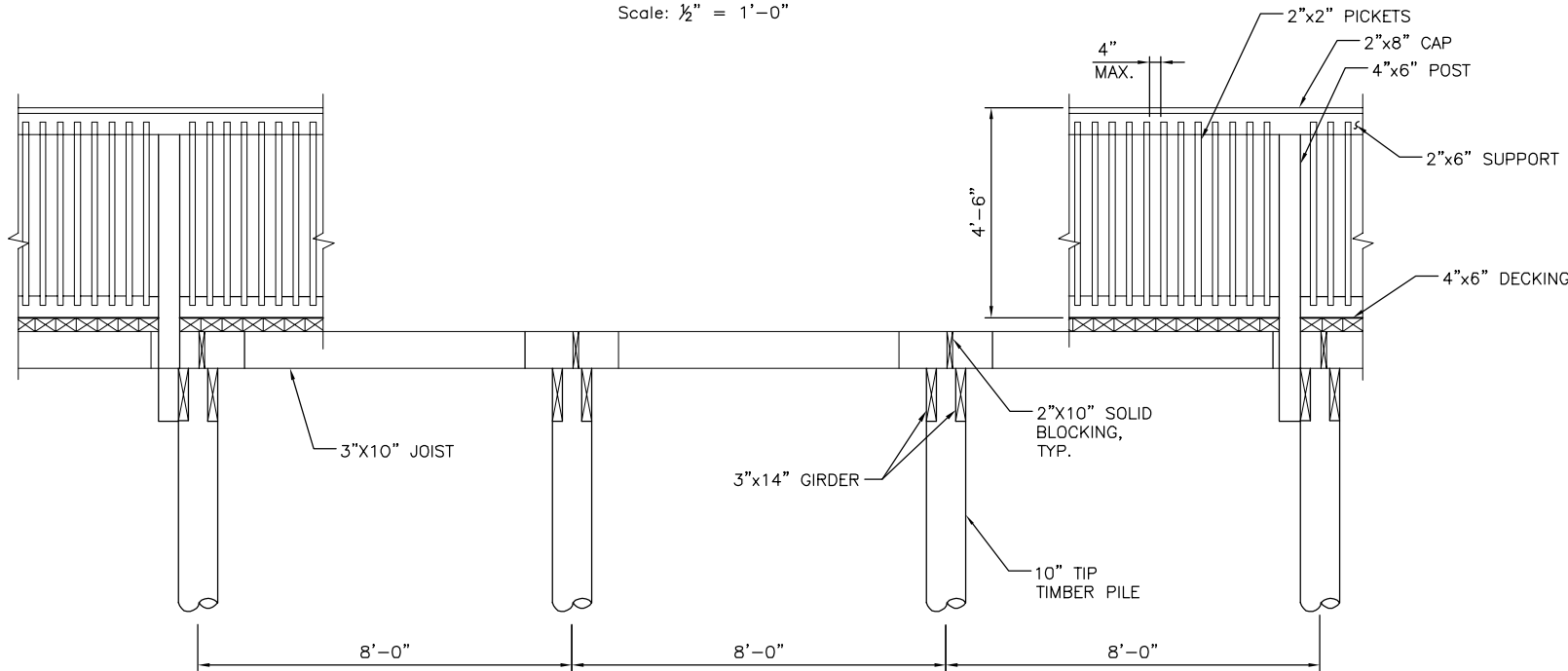
SHEET NUMBER
16(2)

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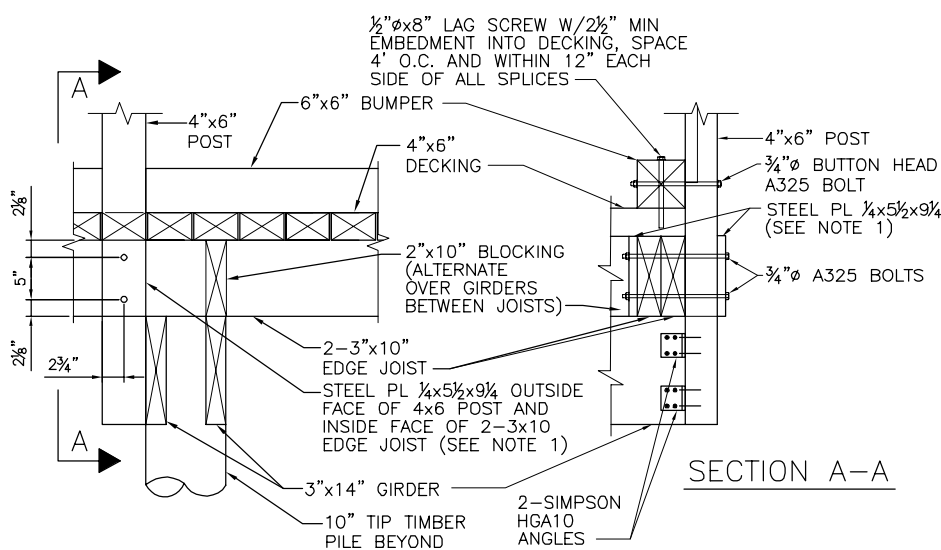
PLAN - ELEVATED BOARDWALK

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



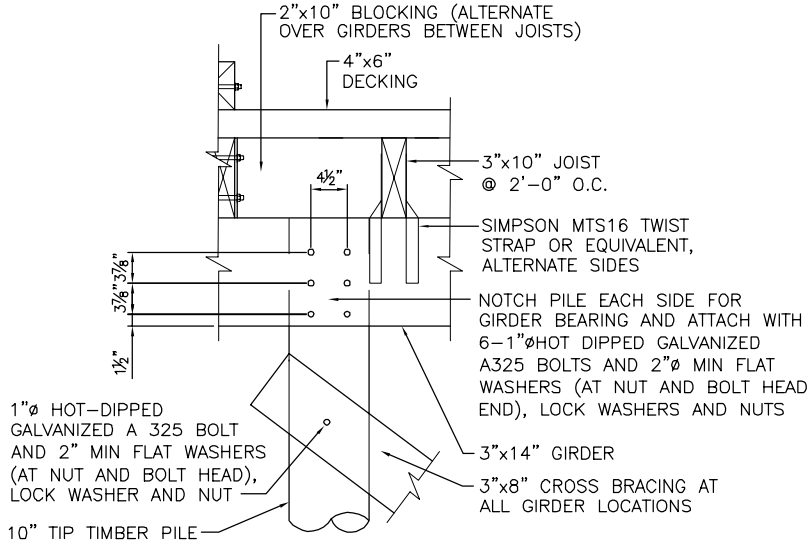
ELEVATION - ELEVATED BOARDWALK

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



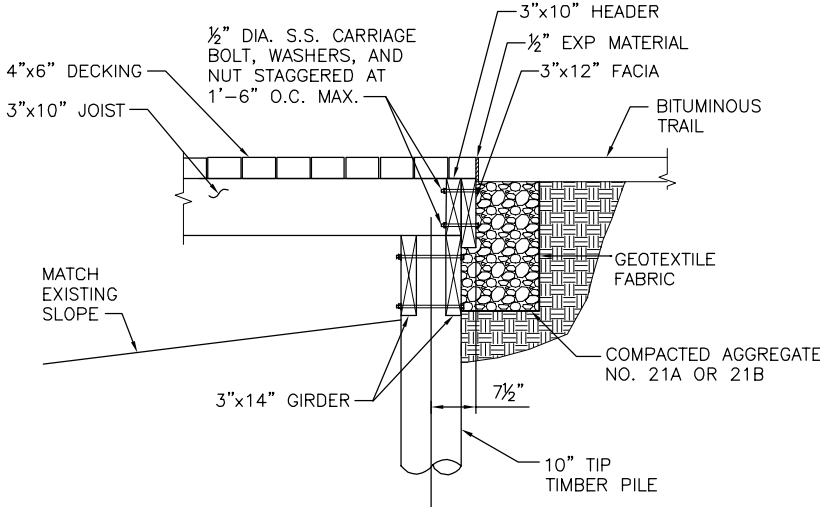
POST JOIST GIRDER CONNECTION

Scale: 1" = 1'-0"



GIRDER PILE CONNECTION DETAIL

Scale: 1" = 1'-0"

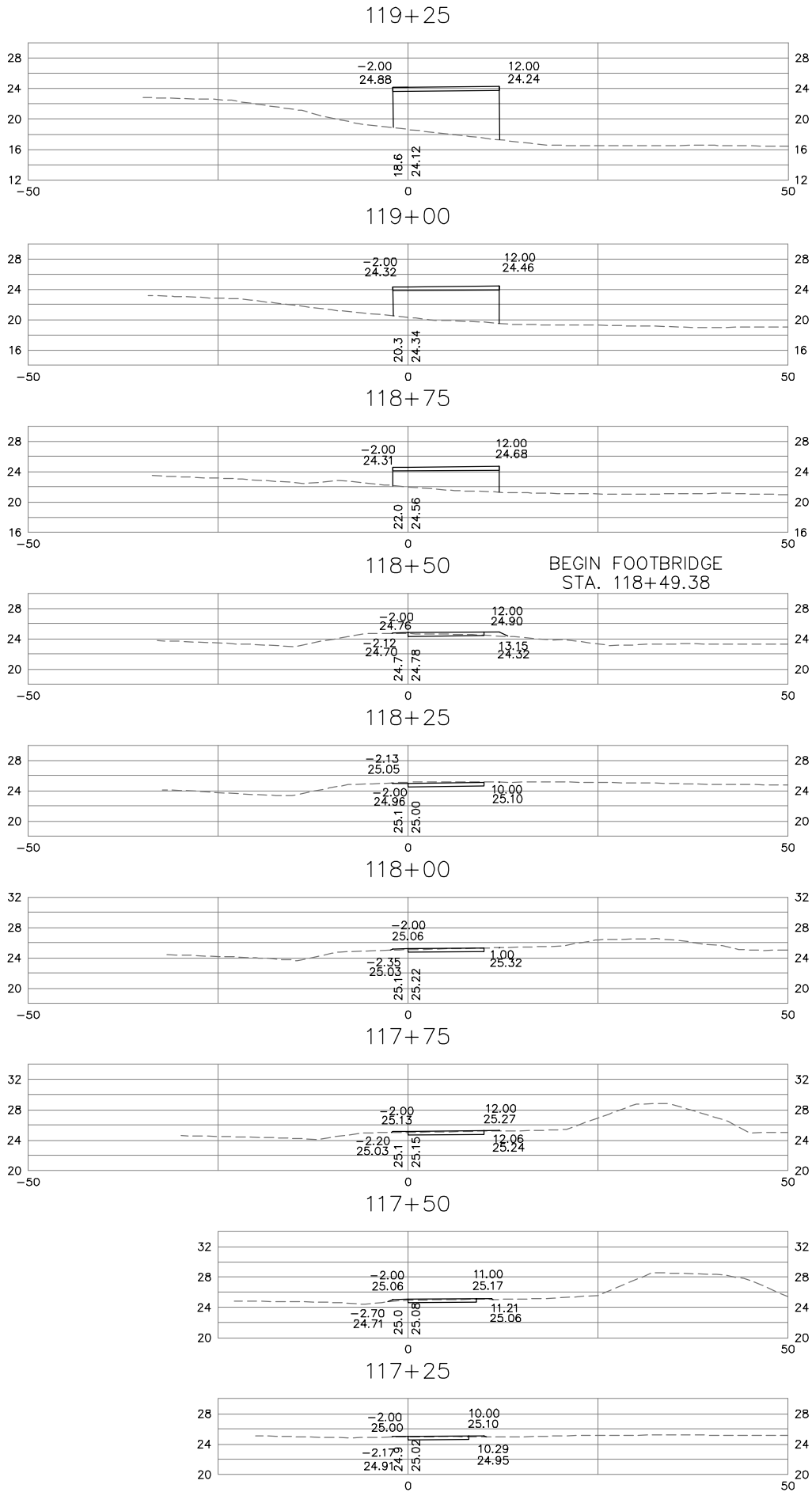


END DETAIL

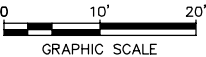
Scale: 1/8" = 1'-0"

KHA PROJECT 117032000		DATE SEP. 22, 2016	SCALE AS SHOWN	DESIGNED BY BUH	DRAWN BY PHH	CHECKED BY JDP
PEDESTRIAN BRIDGE B601		SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1		VA		
Kimley»Horn		4500 MAIN STREET, SUITE 500, VIRGINIA BEACH, VA 23462 PHONE: 757-213-8600 FAX: 757-213-8601 WWW.KIMLEY-HORN.COM		ISLE OF WIGHT		
Professional Engineer LUI KRISTAN ZUKOSKY Lic. No. 049318 9/22/2016		SHEET NUMBER 16(3)		BY		
REVISIONS		DATE		BY		

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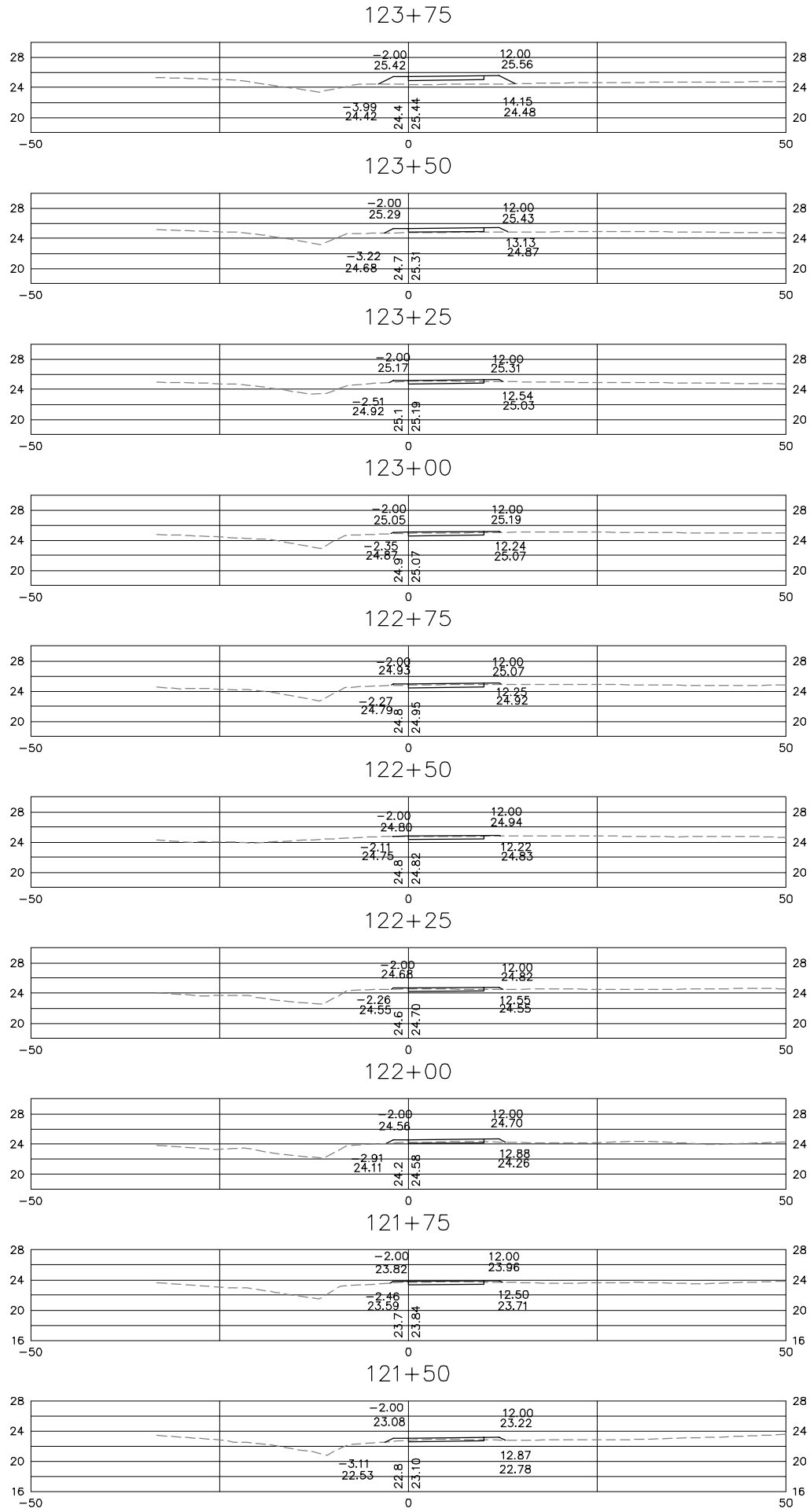
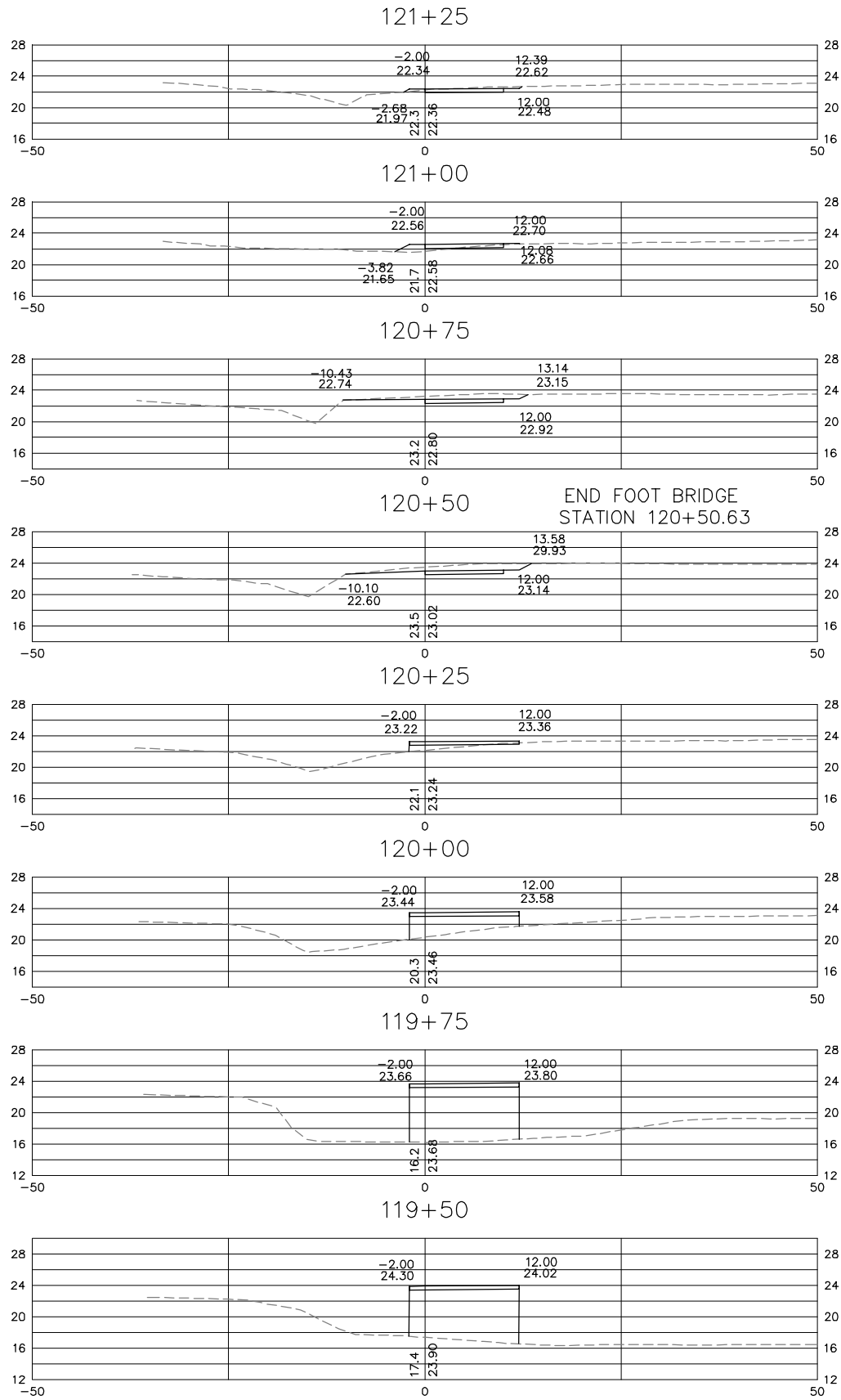


NOTE: PROPOSED ASPHALT PATH TO BE 8' IN WIDTH.



KHA PROJECT 117032000		DATE DEC. 12, 2016		SCALE AS SHOWN		DESIGNED BY CFA		DRAWN BY LUL		CHECKED BY RFJ		
<div>SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1</div> <div>VA TOWN OF SMITHFIELD</div>												
SHEET NUMBER X4												
<div>Kimley»Horn © 2016 KIMLEY-HORN AND ASSOCIATES, INC. 4500 MAIN STREET, SUITE 500, VIRGINIA BEACH, VA 23462 PHONE: 757-213-8600 FAX: 757-213-8601 WWW.KIMLEY-HORN.COM</div> <div> REBECCA R. JUCKSCH Lic. No. 0228894 12-12-2016 PROFESSIONAL ENGINEER</div>												
REVISIONS										DATE		BY
No.												

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NOTE: PROPOSED ASPHALT PATH TO BE 8' IN WIDTH.



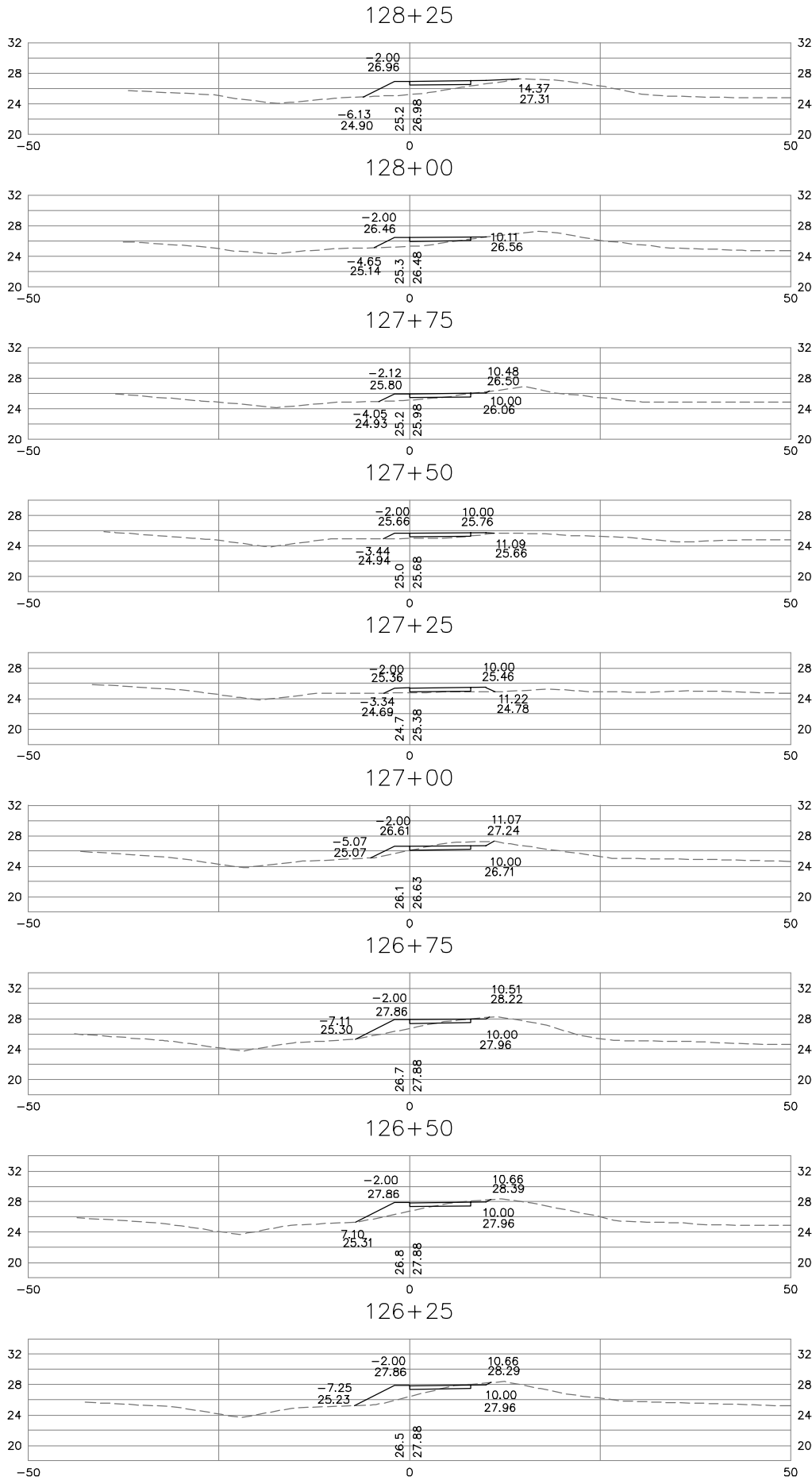
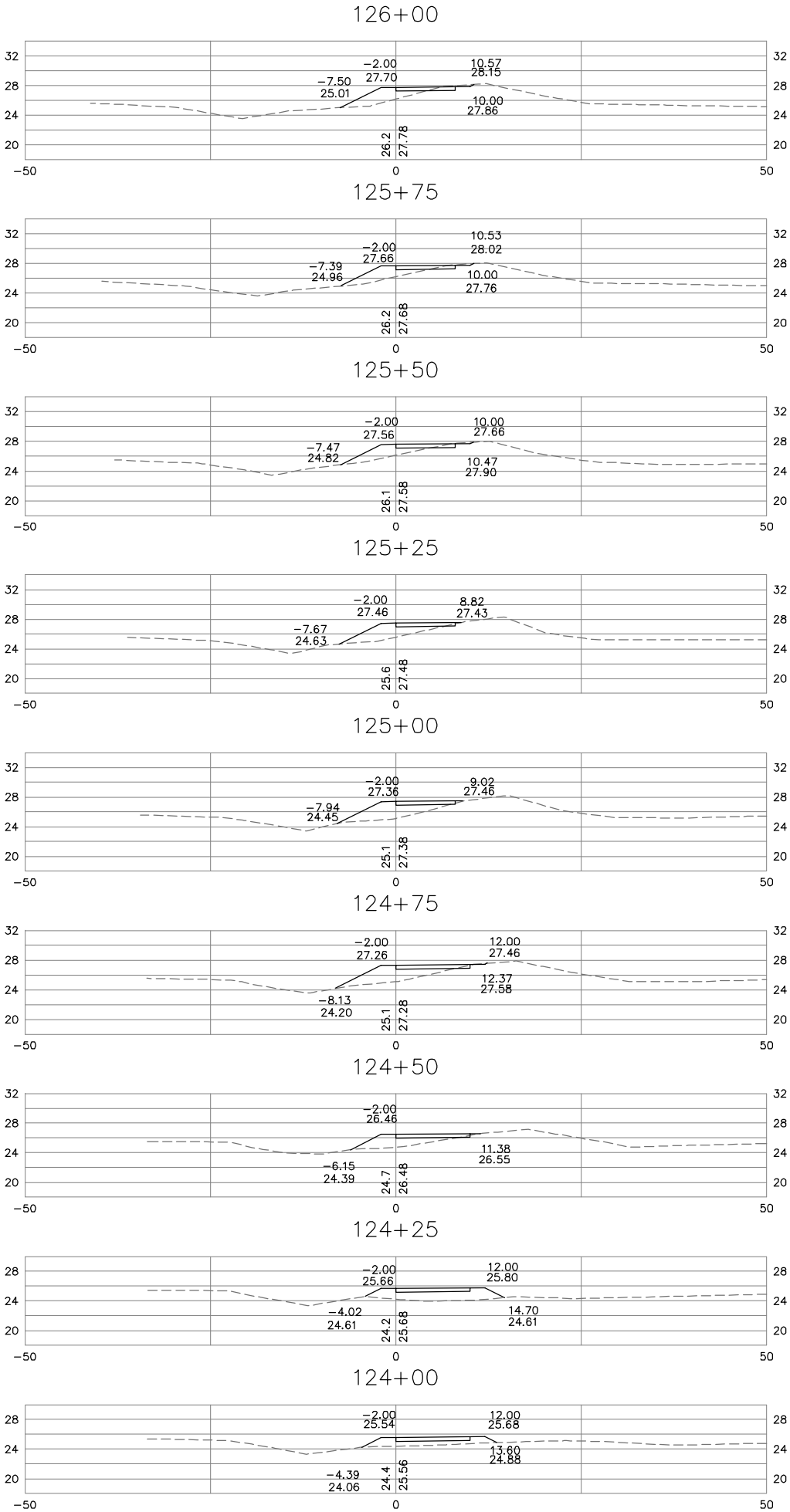
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KHA PROJECT 117032000	DATE DEC. 12, 2016	SCALE AS SHOWN	DESIGNED BY CFA	DRAWN BY LUL	CHECKED BY RRJ
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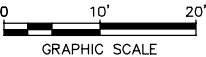
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NO.	REVISIONS	DATE	BY

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ASPHALT PATH TO BE
8' IN WIDTH.

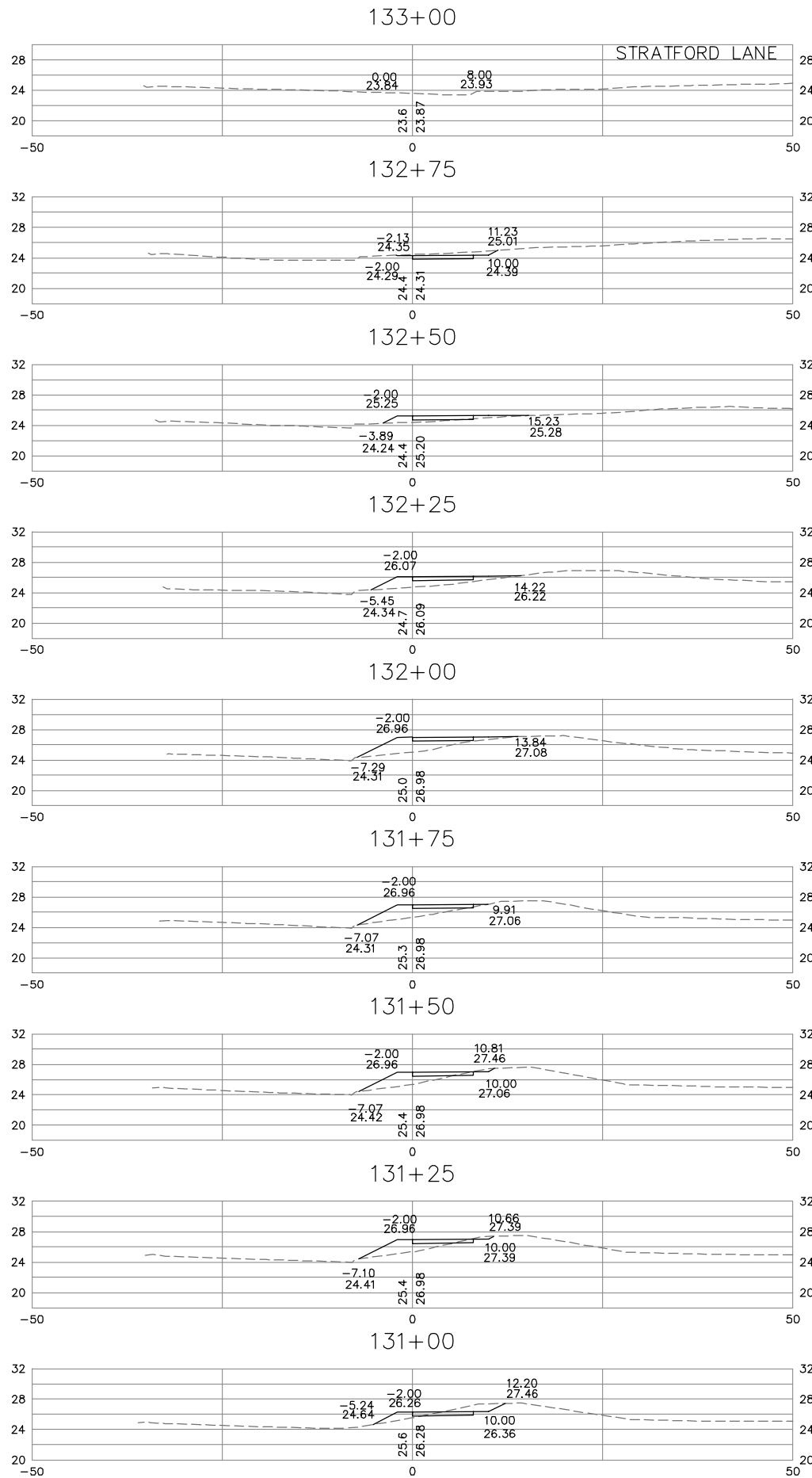
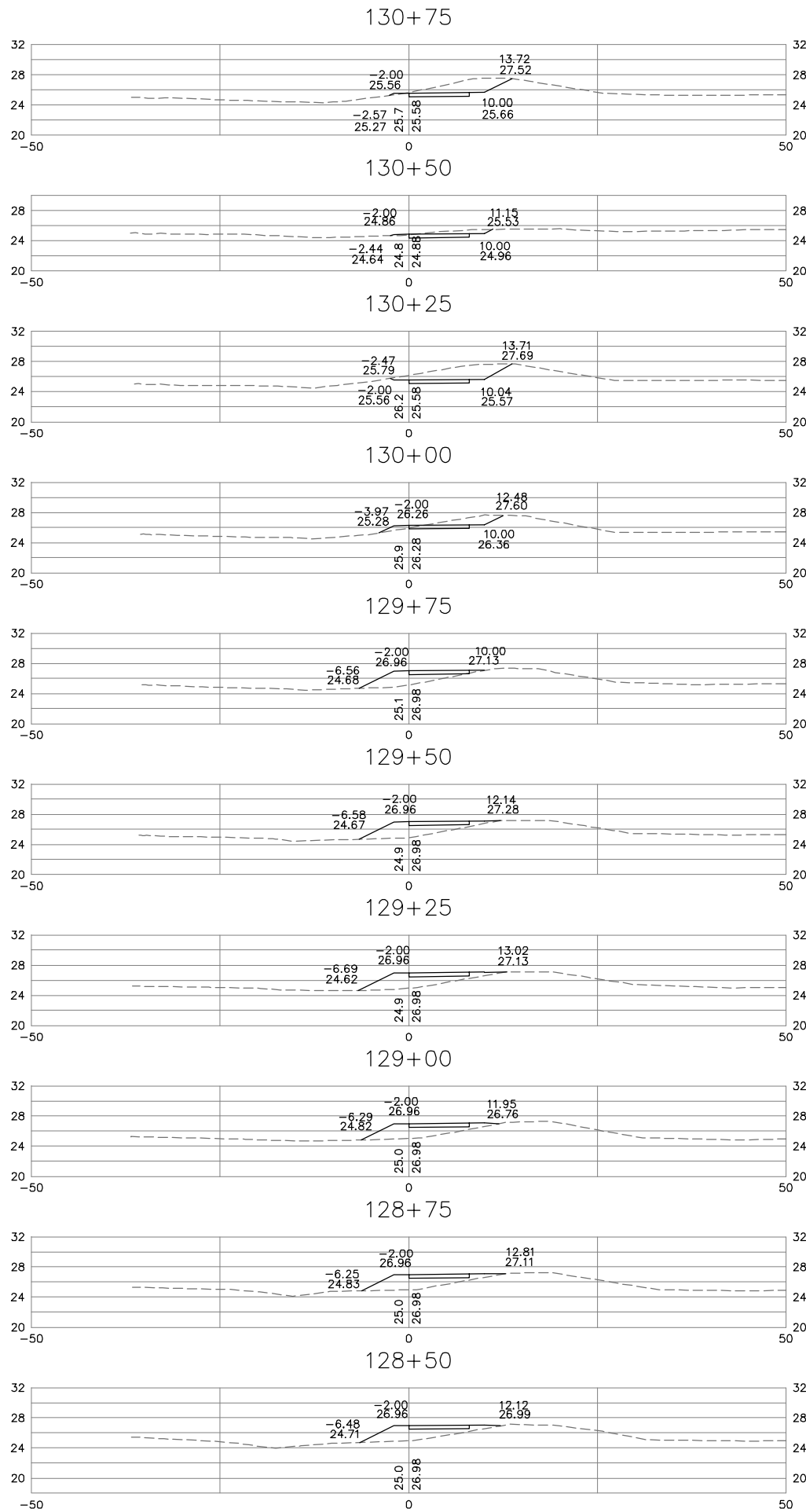


KHA PROJECT 117032000		DATE DEC. 12, 2016	SCALE AS SHOWN	DESIGNED BY CFA	DRAWN BY LUL	CHECKED BY RRJ
CROSS SECTIONS STA. 124+00 TO STA. 128+25						
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1						
TOWN OF SMITHFIELD VA						
SHEET NUMBER X6						
REVISIONS						BY
No.						DATE

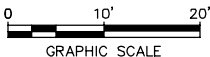
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8' IN WIDTH.

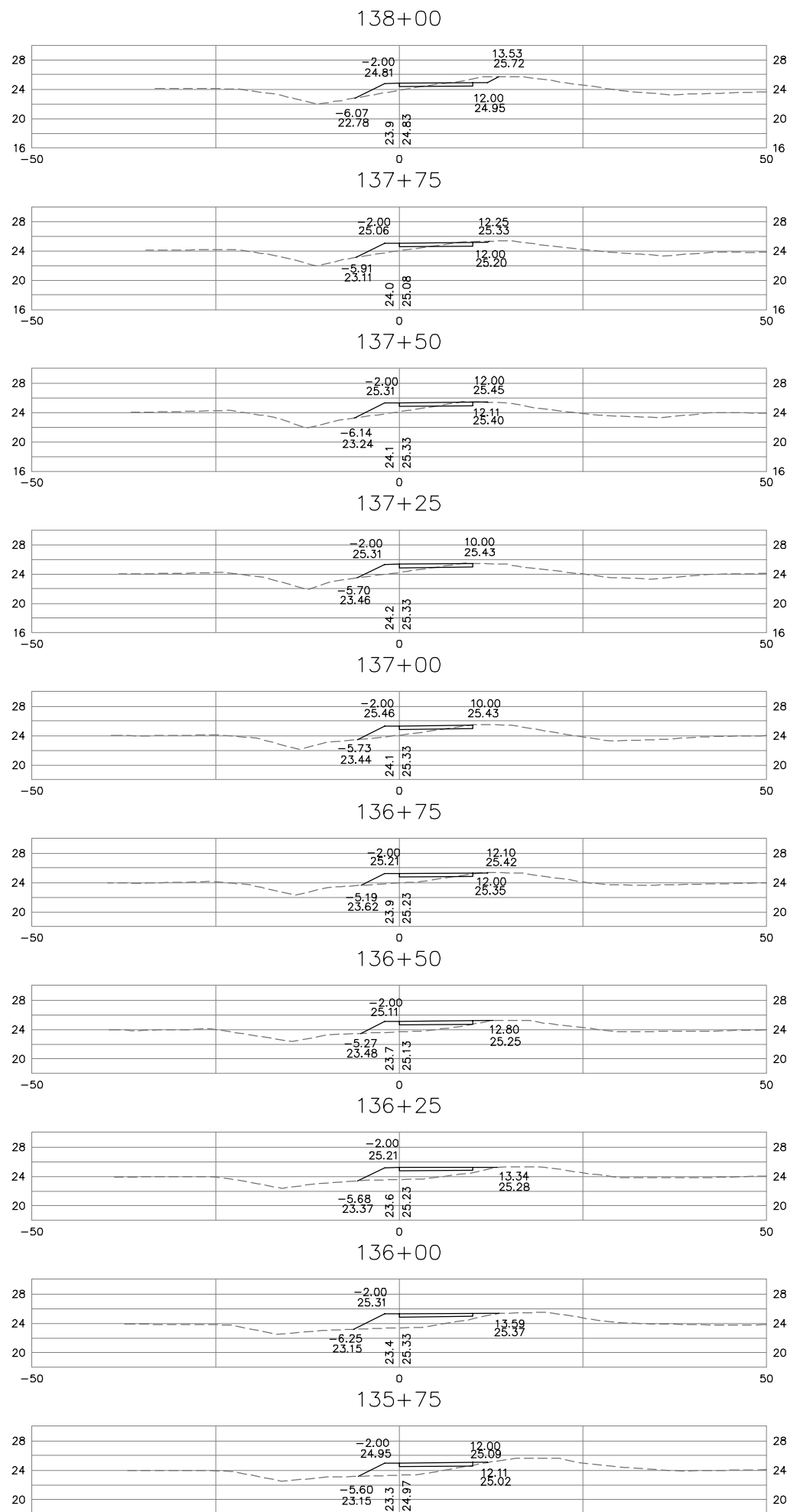
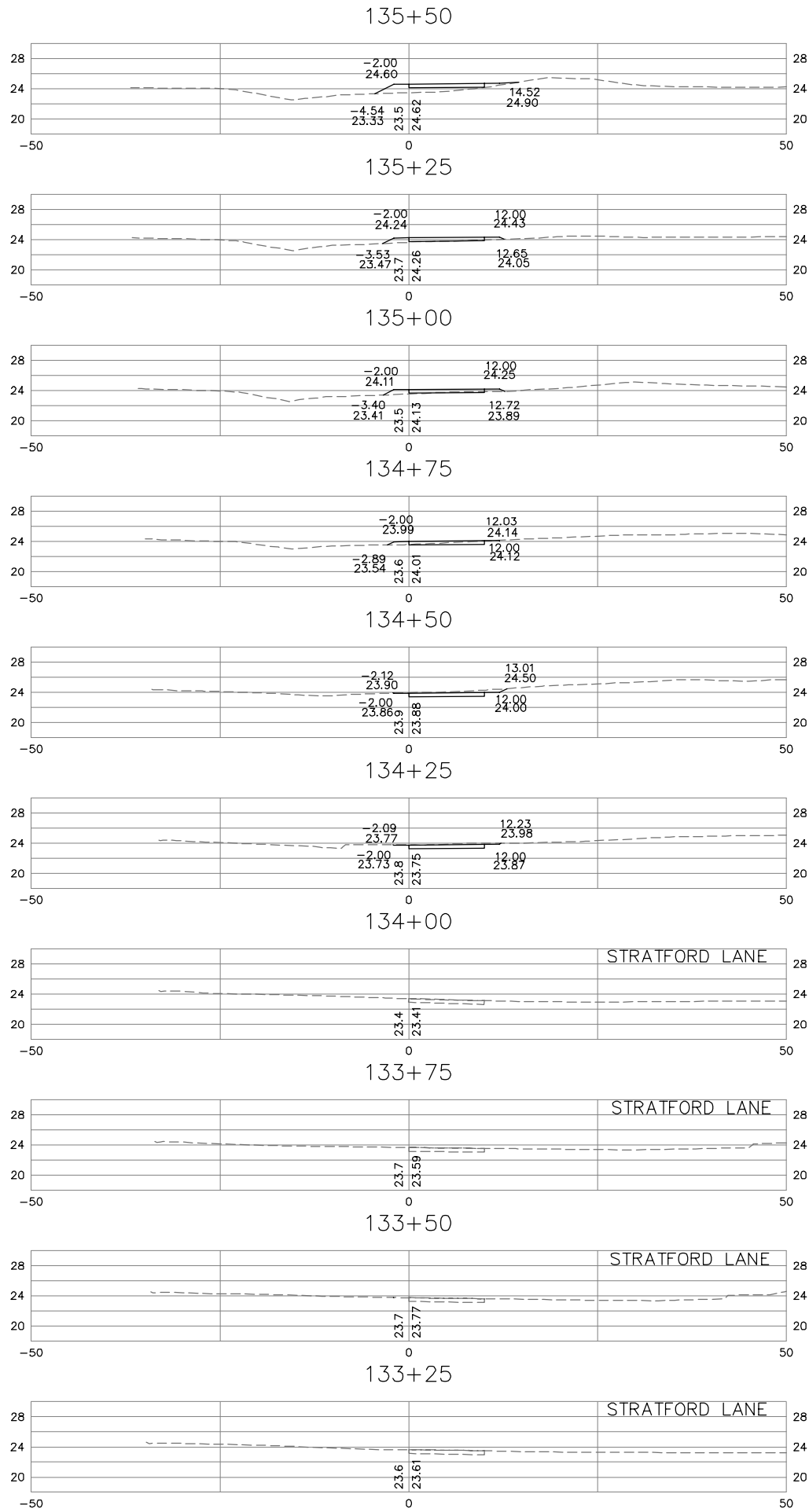


KHA PROJECT 117032000		DATE DEC. 12, 2016	SCALE AS SHOWN	DESIGNED BY CPA	DRAWN BY LUL	CHECKED BY RRJ
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1		CROSS SECTIONS STA. 128+50 TO STA. 133+00		TOWN OF SMITHFIELD VA		
SHEET NUMBER X7		REVISIONS		DATE		
BY		No.		No.		

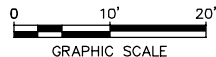
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8' IN WIDTH.



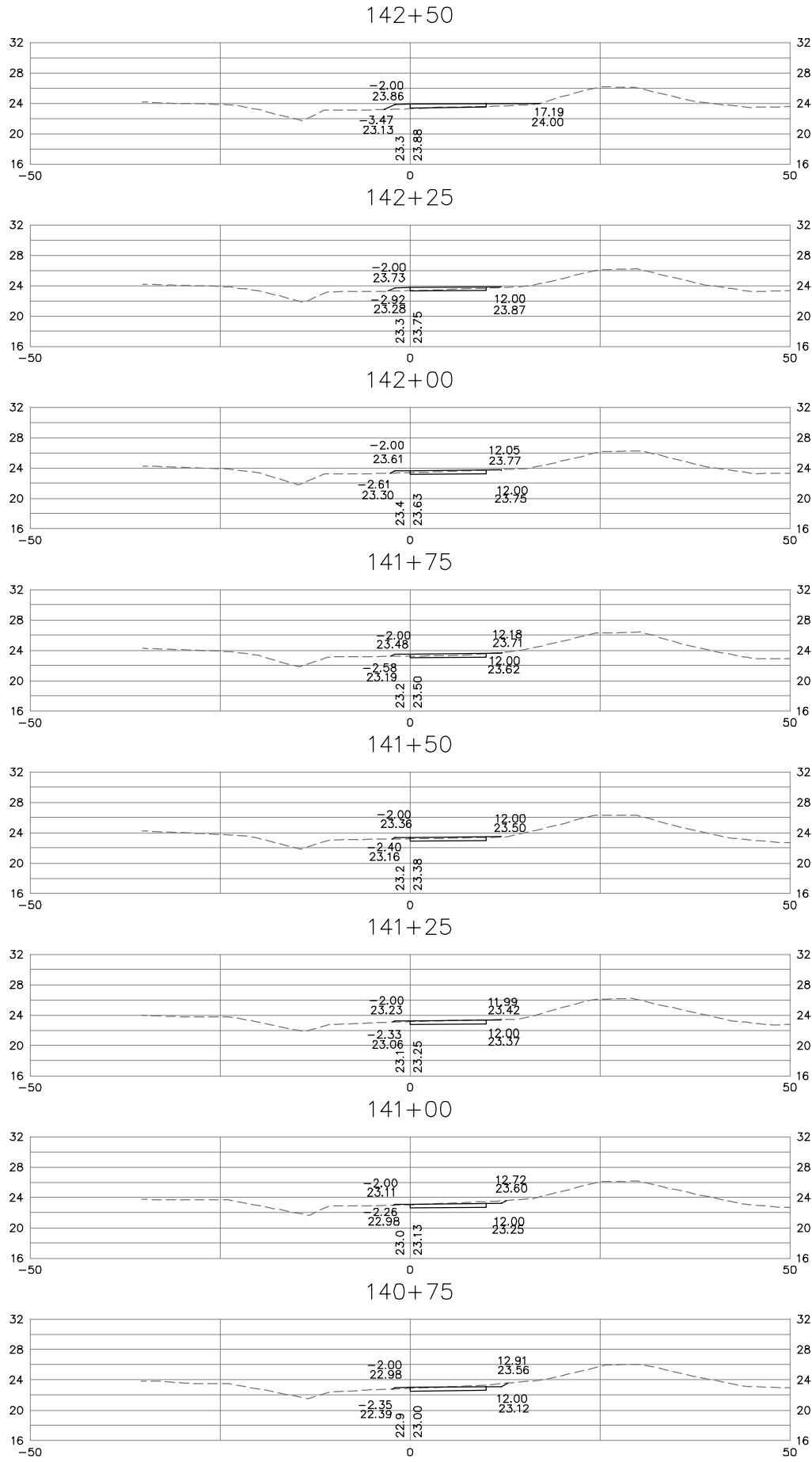
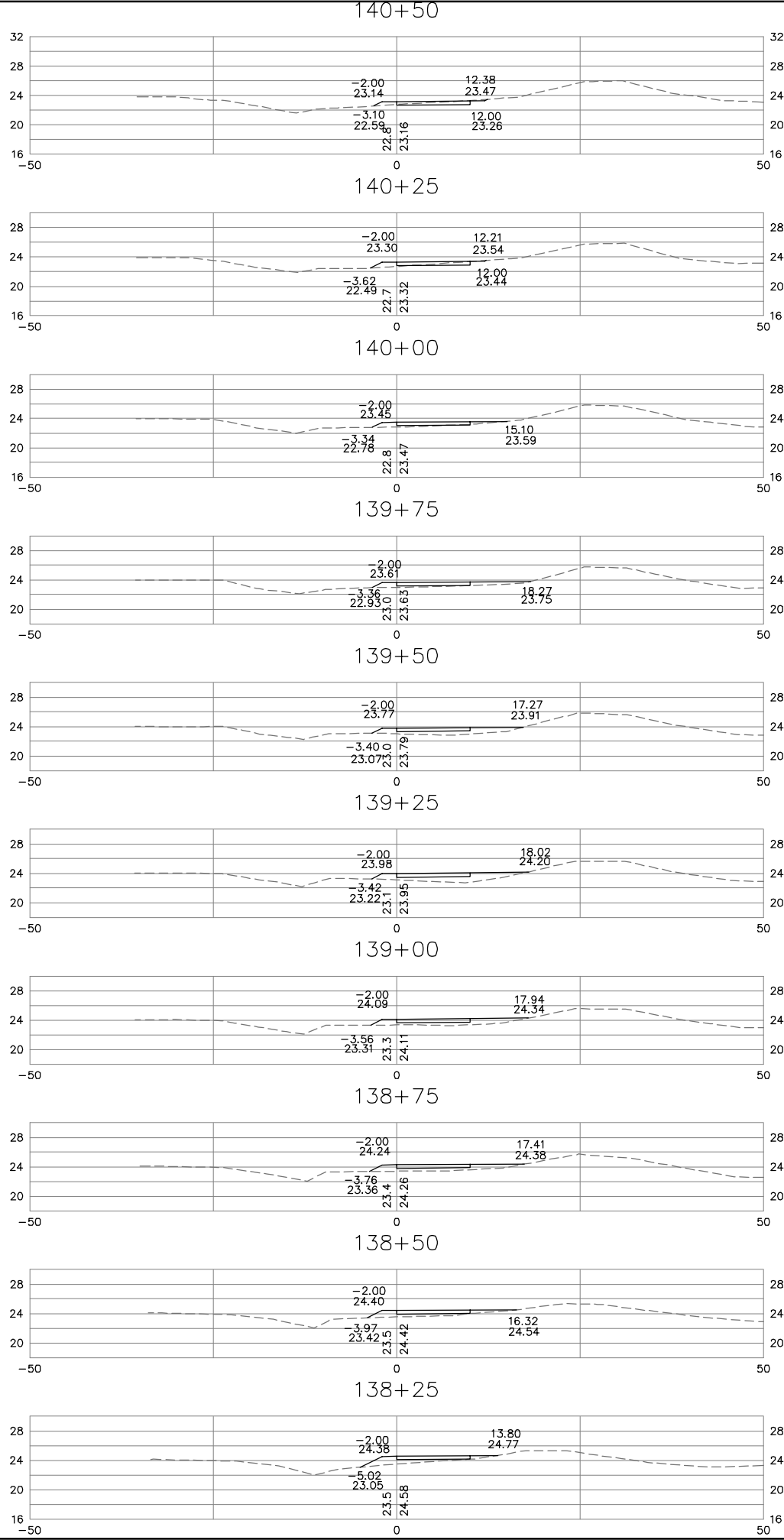
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SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1 TOWN OF SMITHFIELD VA						
SHEET NUMBER X8						BY
REVISIONS						DATE
No.						

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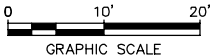
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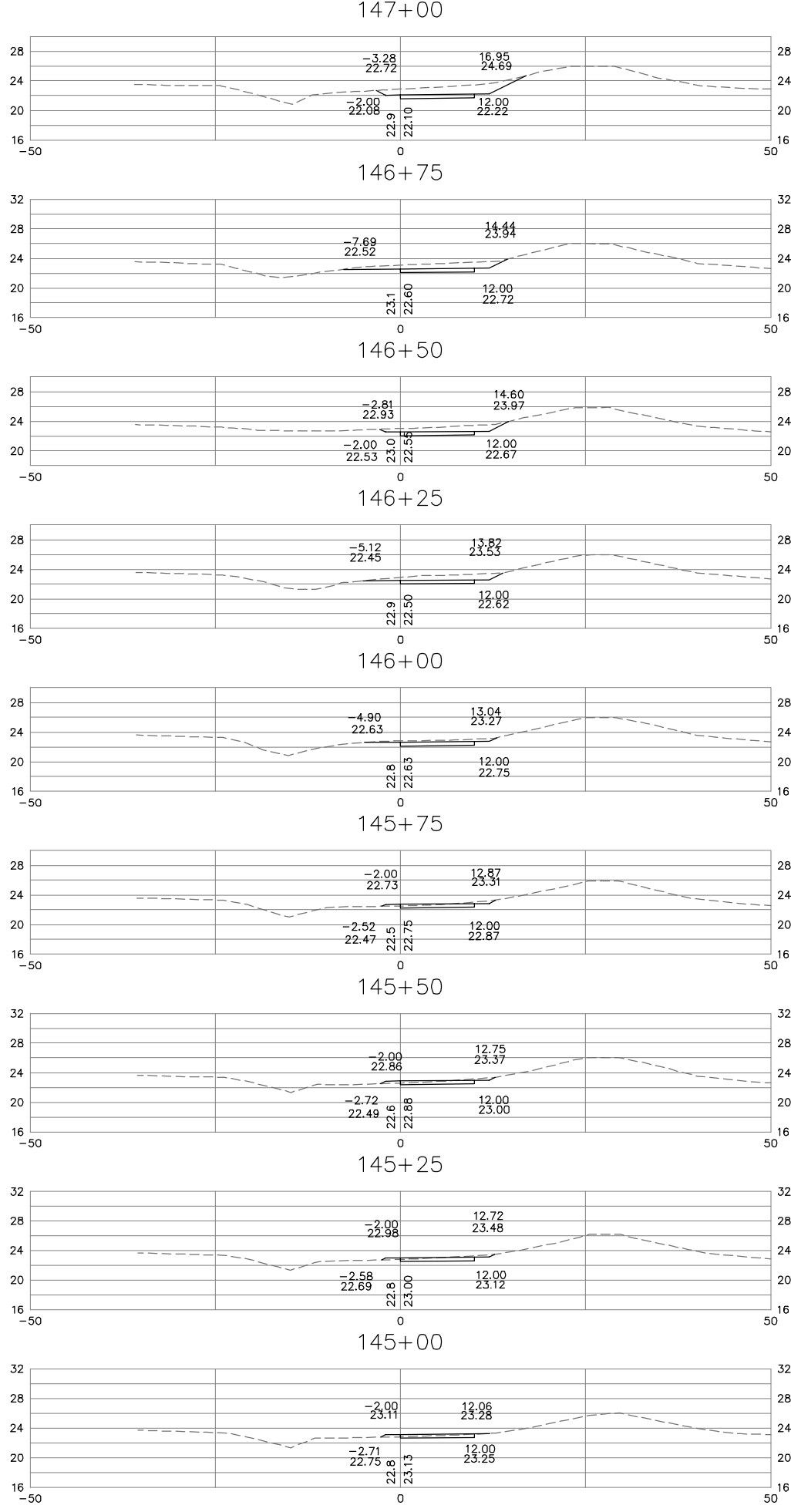
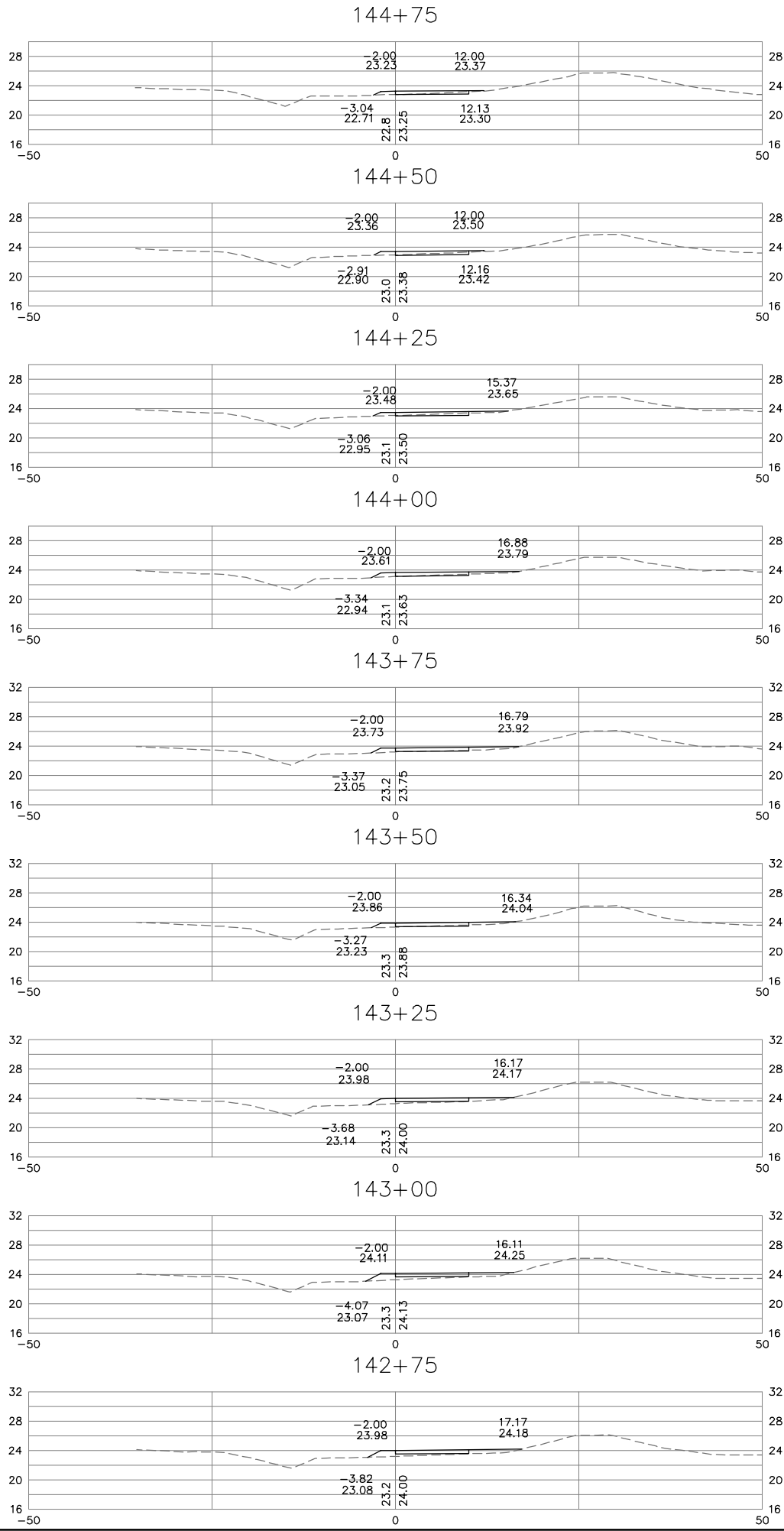
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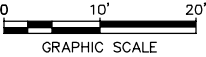
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SHEET NUMBER X9							
CROSS SECTIONS STA. 138+25 TO STA. 142+50							
<div><div><div>Kimley»Horn</div><div>© 2016 KIMLEY-HORN AND ASSOCIATES, INC. 4500 MAIN STREET, SUITE 500, VIRGINIA BEACH, VA 23462 PHONE: 757-213-8800 FAX: 757-213-8801 WWW.KIMLEY-HORN.COM</div></div><div><div>REBECCA R. JUICKSCH Lic. No. 0228894 12-12-2016 PROFESSIONAL ENGINEER</div><div>COMMONWEALTH OF VIRGINIA</div></div></div>							
REVISIONS						DATE	BY

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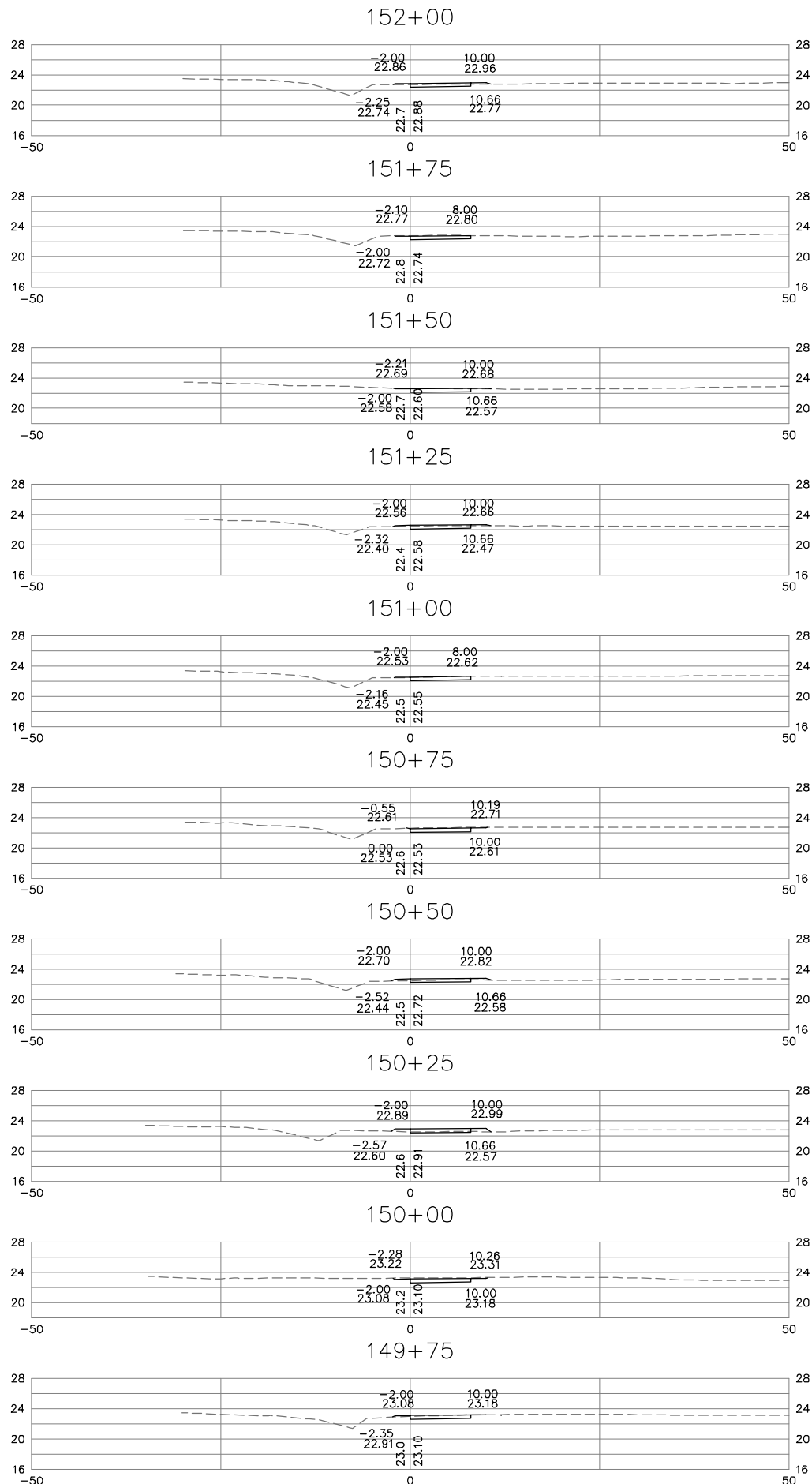
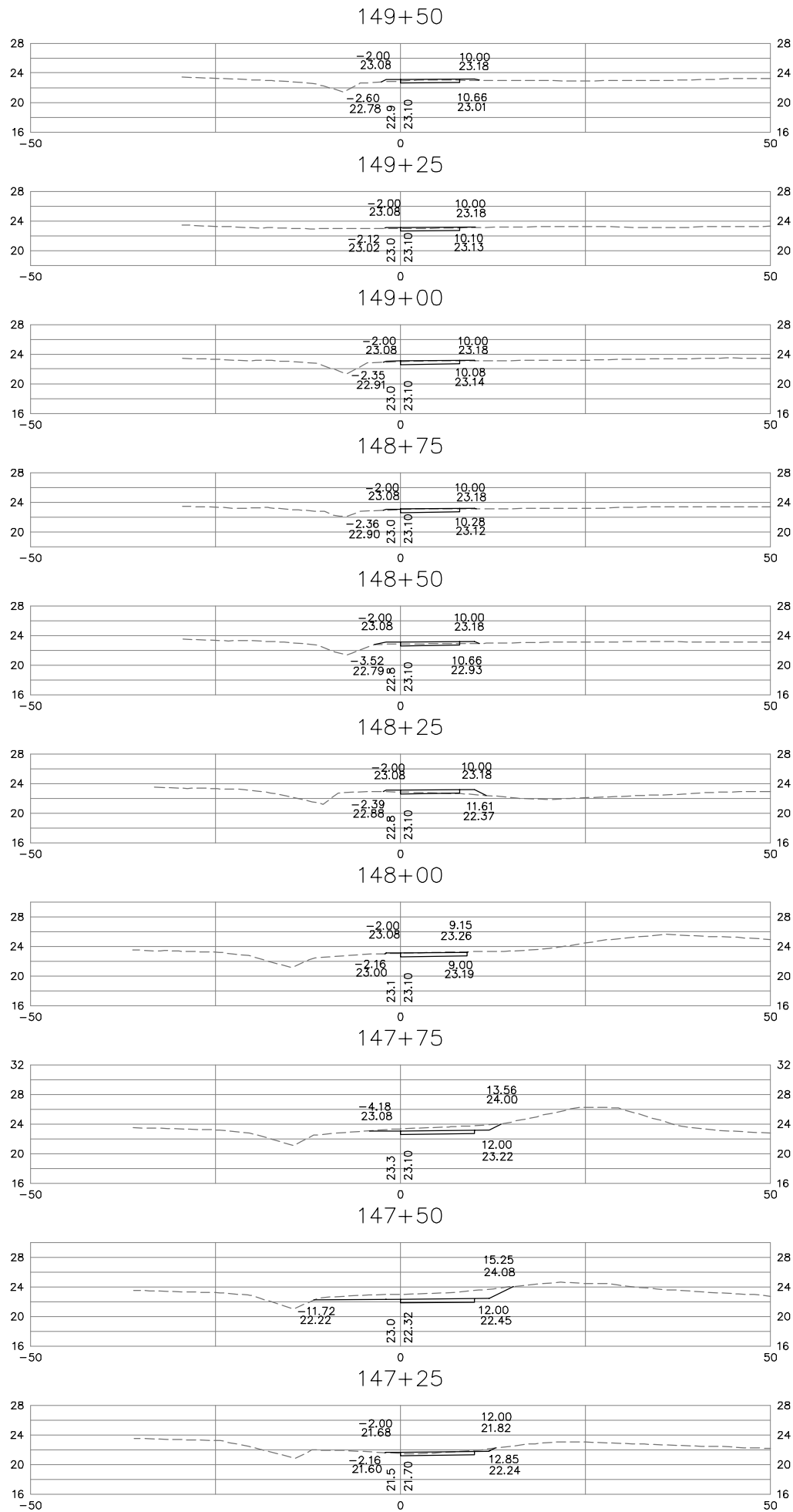


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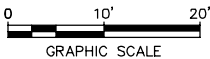


KHA PROJECT 117032000		DATE DEC. 12, 2016	SCALE AS SHOWN	DESIGNED BY CFA	DRAWN BY LUL	CHECKED BY RRJ
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SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1 TOWN OF SMITHFIELD VA						
SHEET NUMBER X10						BY DATE
REVISIONS						NO.
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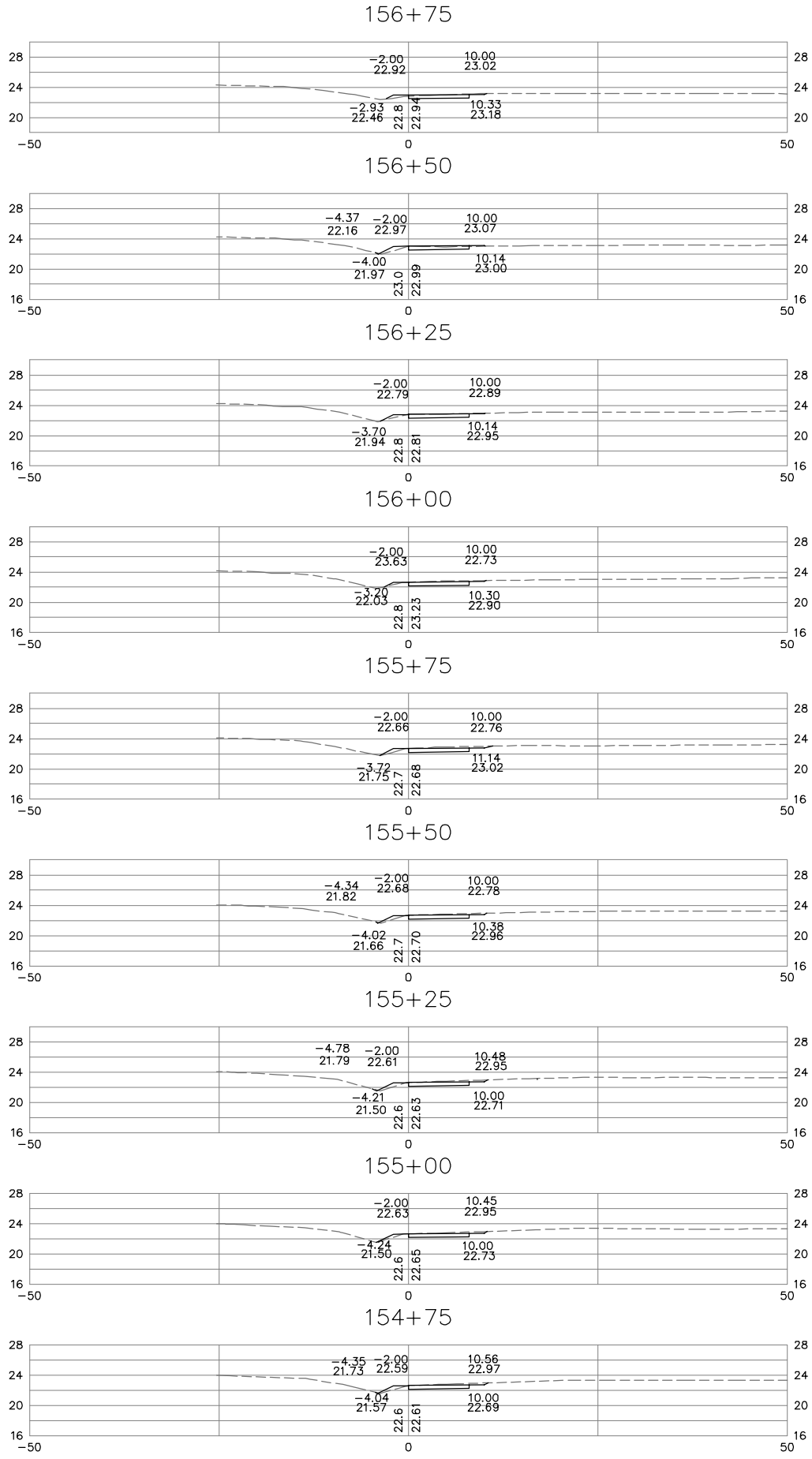
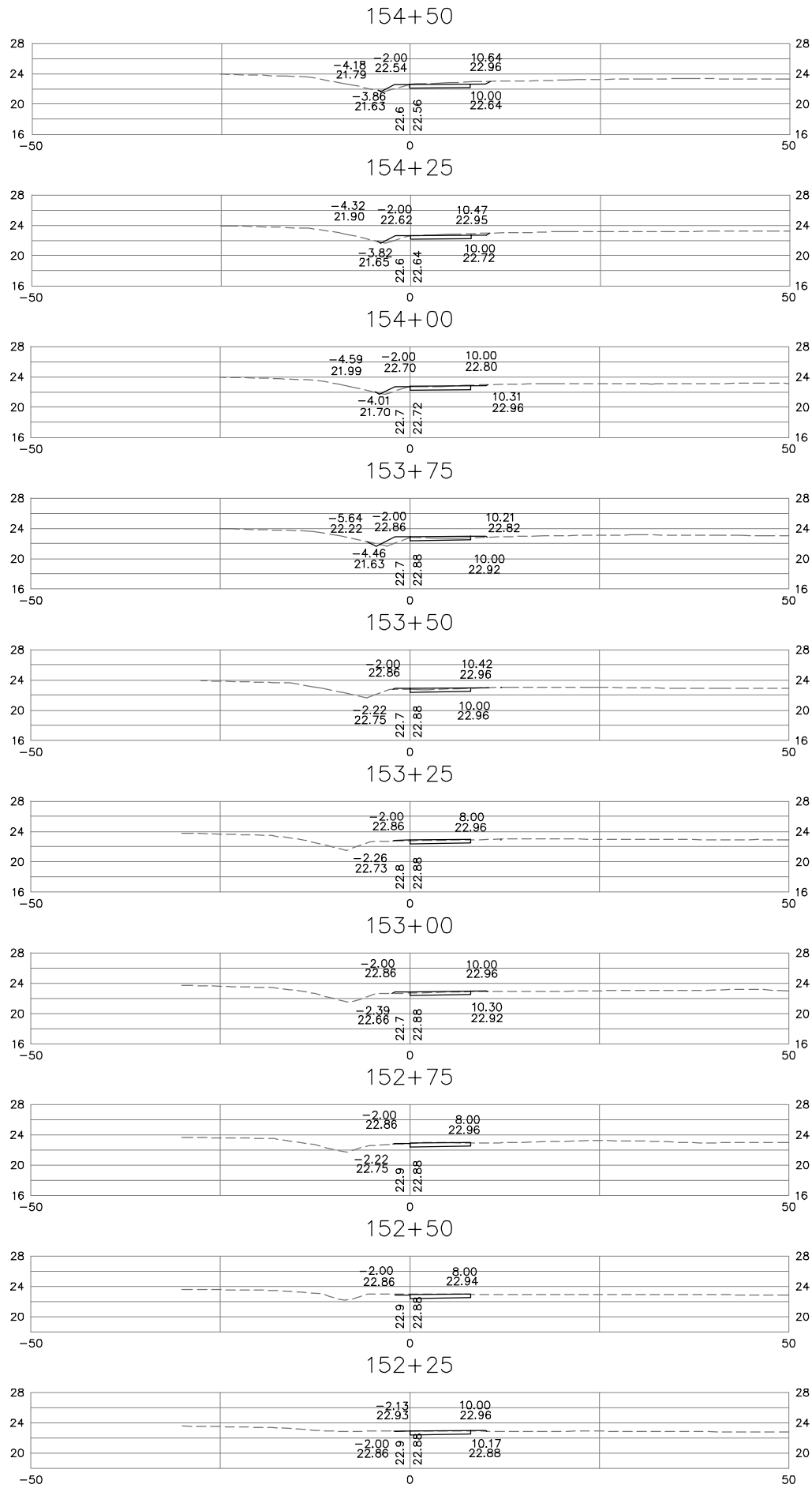


NOTE: PROPOSED
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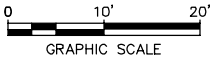


KHA PROJECT 117032000		DATE DEC. 12, 2016	SCALE AS SHOWN	DESIGNED BY CPA	DRAWN BY LUL	CHECKED BY RRJ
CROSS SECTIONS STA. 147+25 TO STA. 152+00						
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1 TOWN OF SMITHFIELD VA						
SHEET NUMBER X11						
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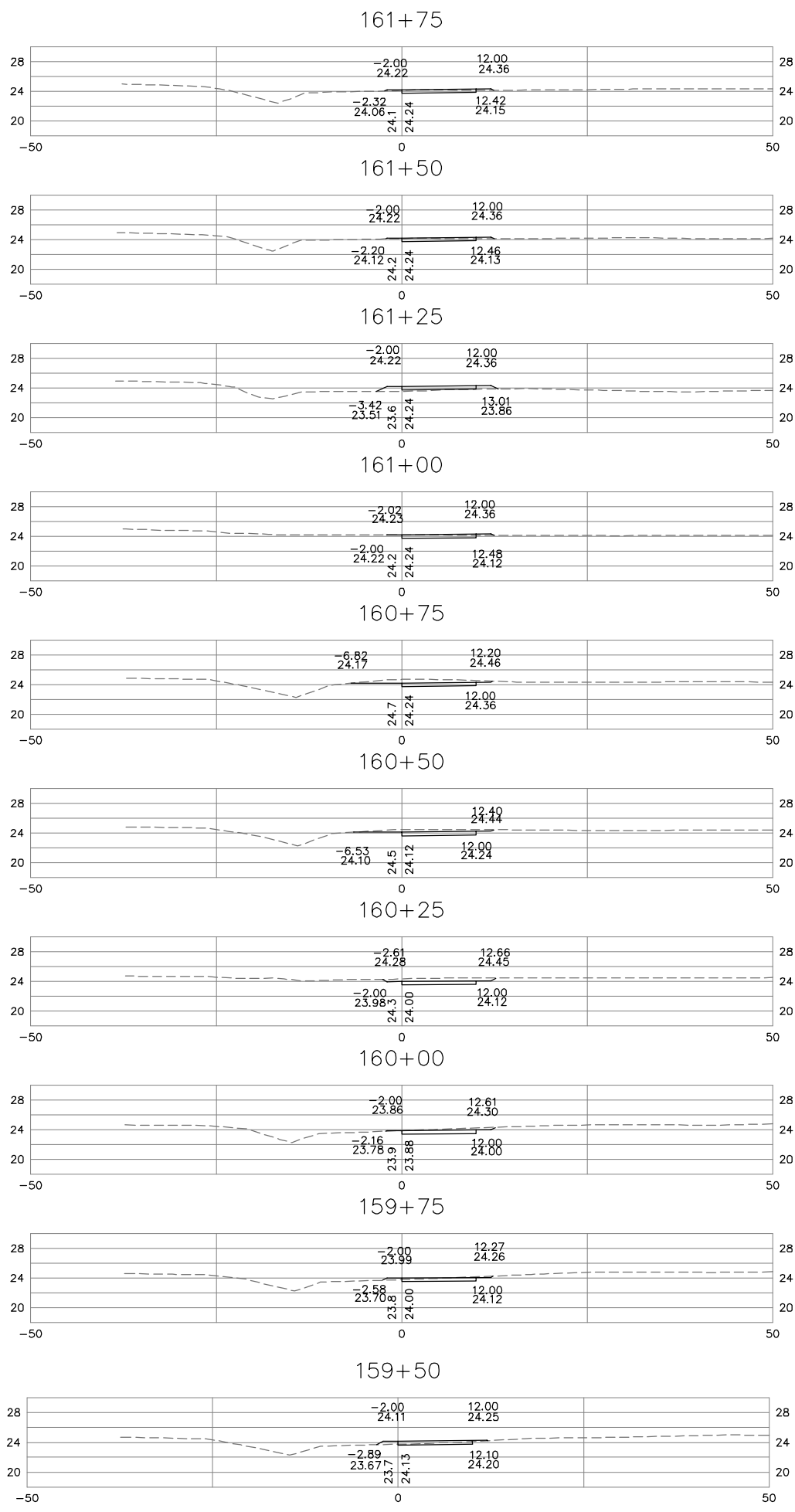
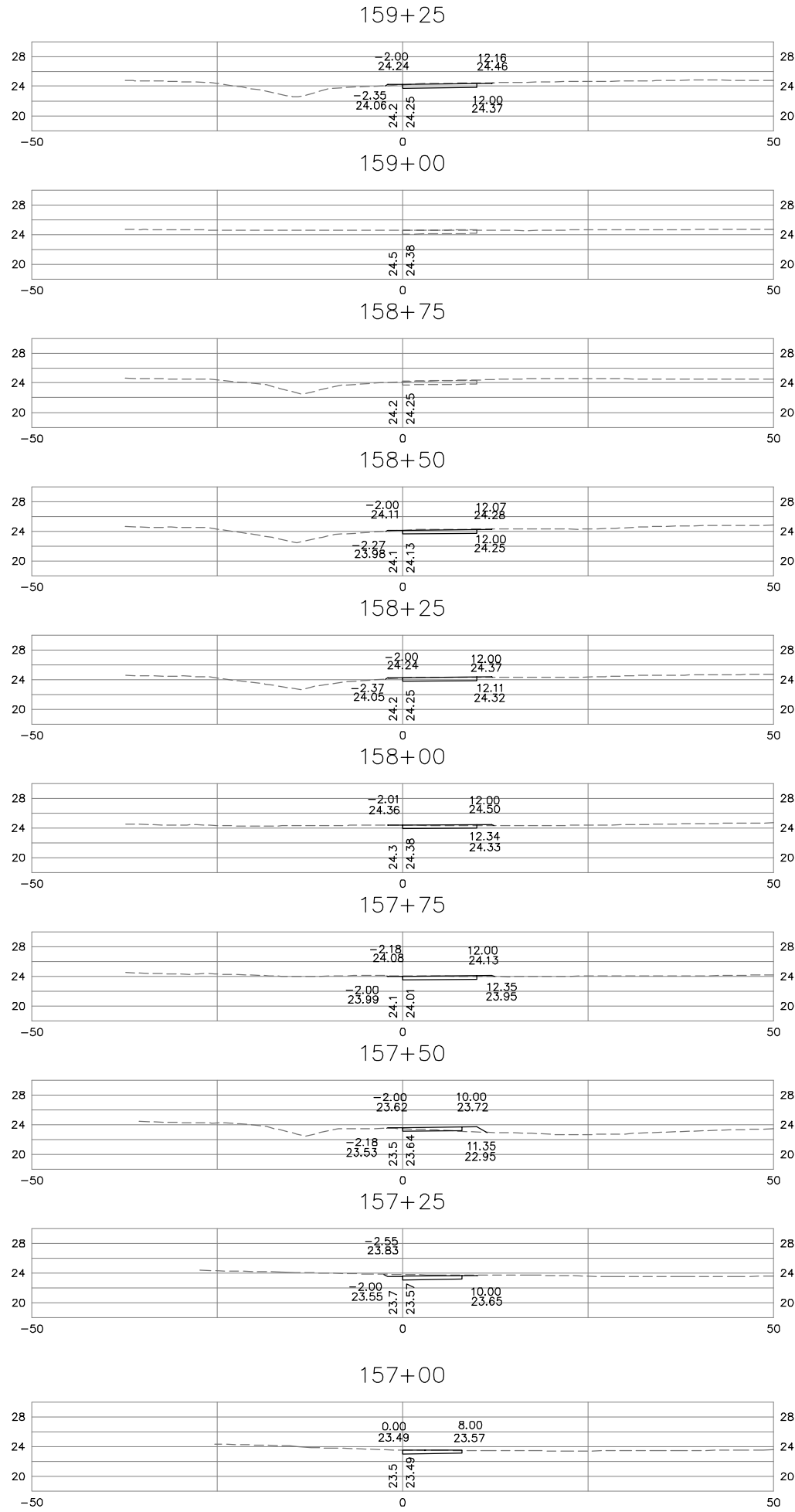
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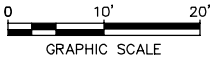
KHA PROJECT 117032000		DATE DEC. 12, 2016	SCALE AS SHOWN	DESIGNED BY CFA	DRAWN BY LUL	CHECKED BY RRJ
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1		CROSS SECTIONS STA. 152+25 TO STA. 156+75		TOWN OF SMITHFIELD VA		
SHEET NUMBER X12		REVISIONS		BY DATE		
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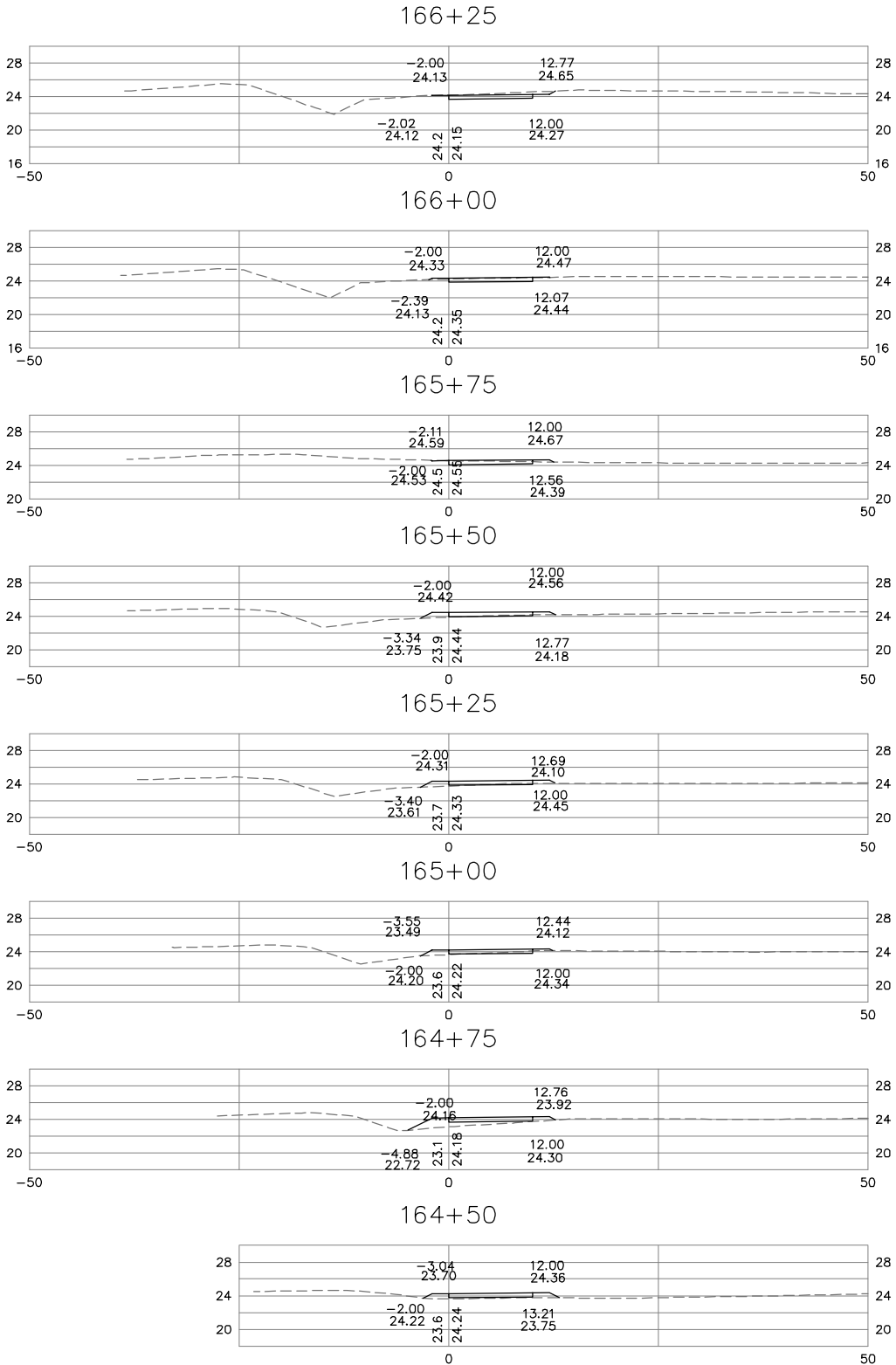
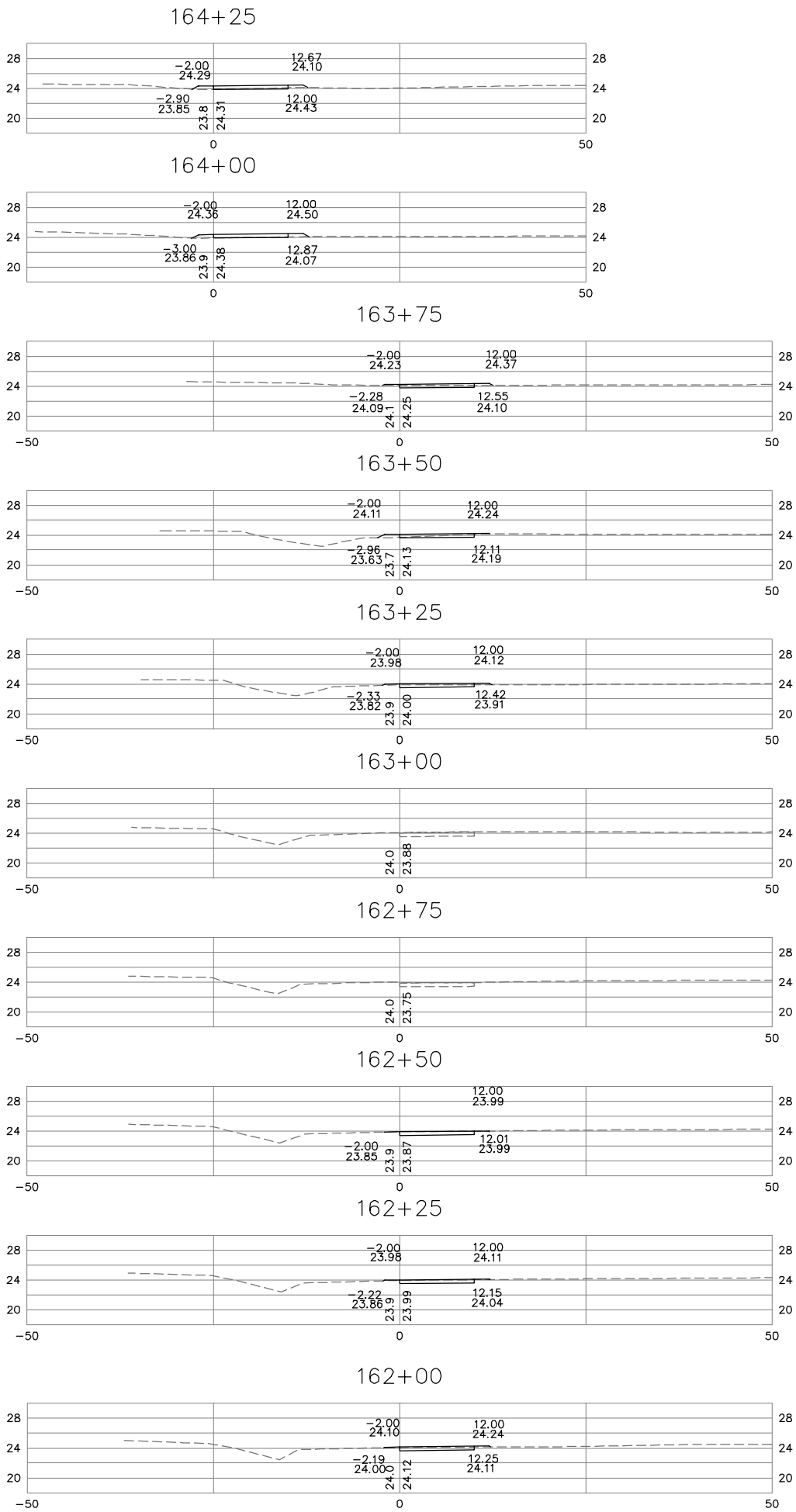


NOTE: PROPOSED
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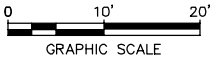


KHA PROJECT 117032000		DATE DEC. 12, 2016	SCALE AS SHOWN	DESIGNED BY CFA	DRAWN BY LUL	CHECKED BY RFJ
CROSS SECTIONS STA. 157+00 TO STA. 161+75						
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1 TOWN OF SMITHFIELD VA						
SHEET NUMBER X13						BY DATE
REVISIONS						NO.
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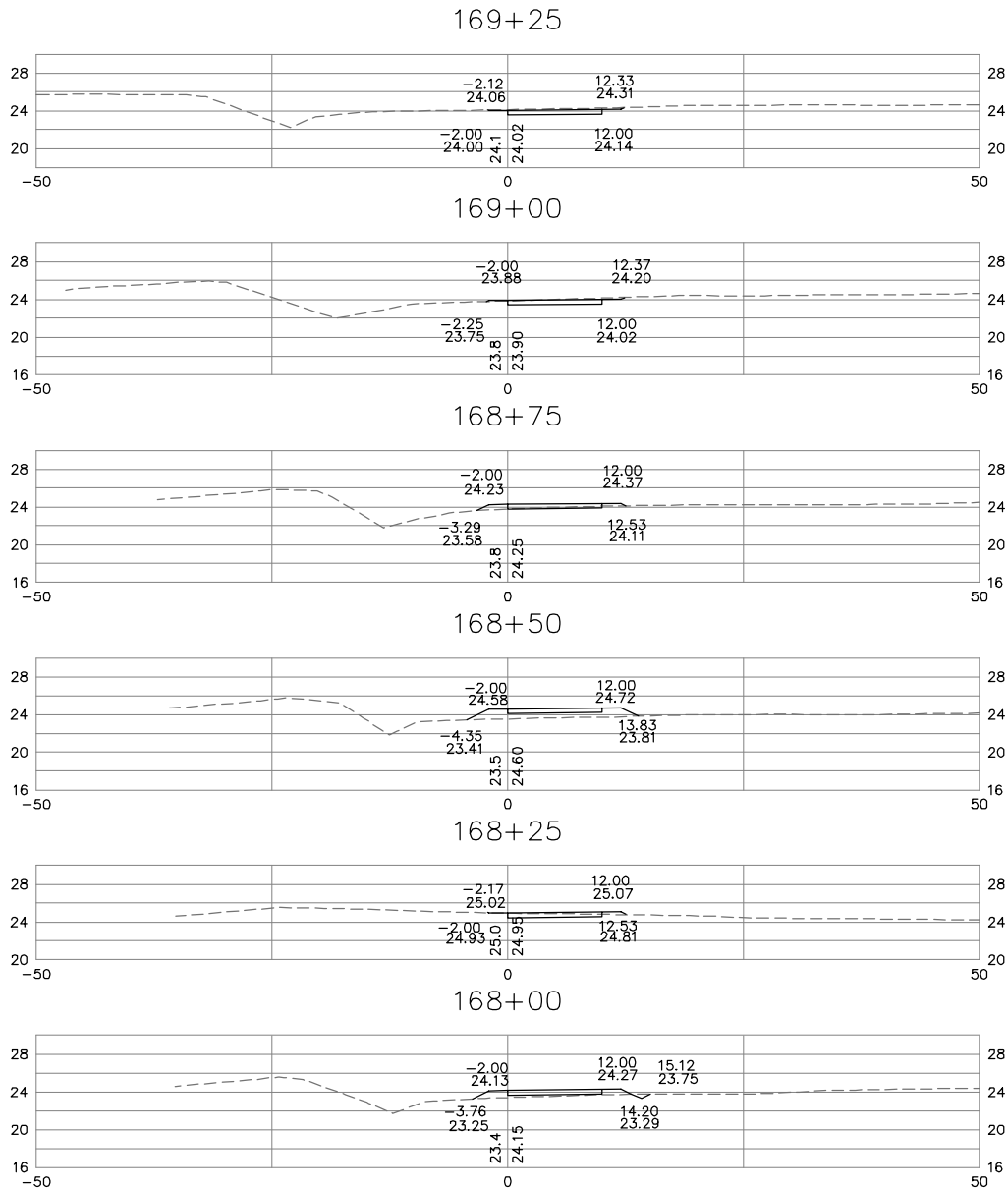
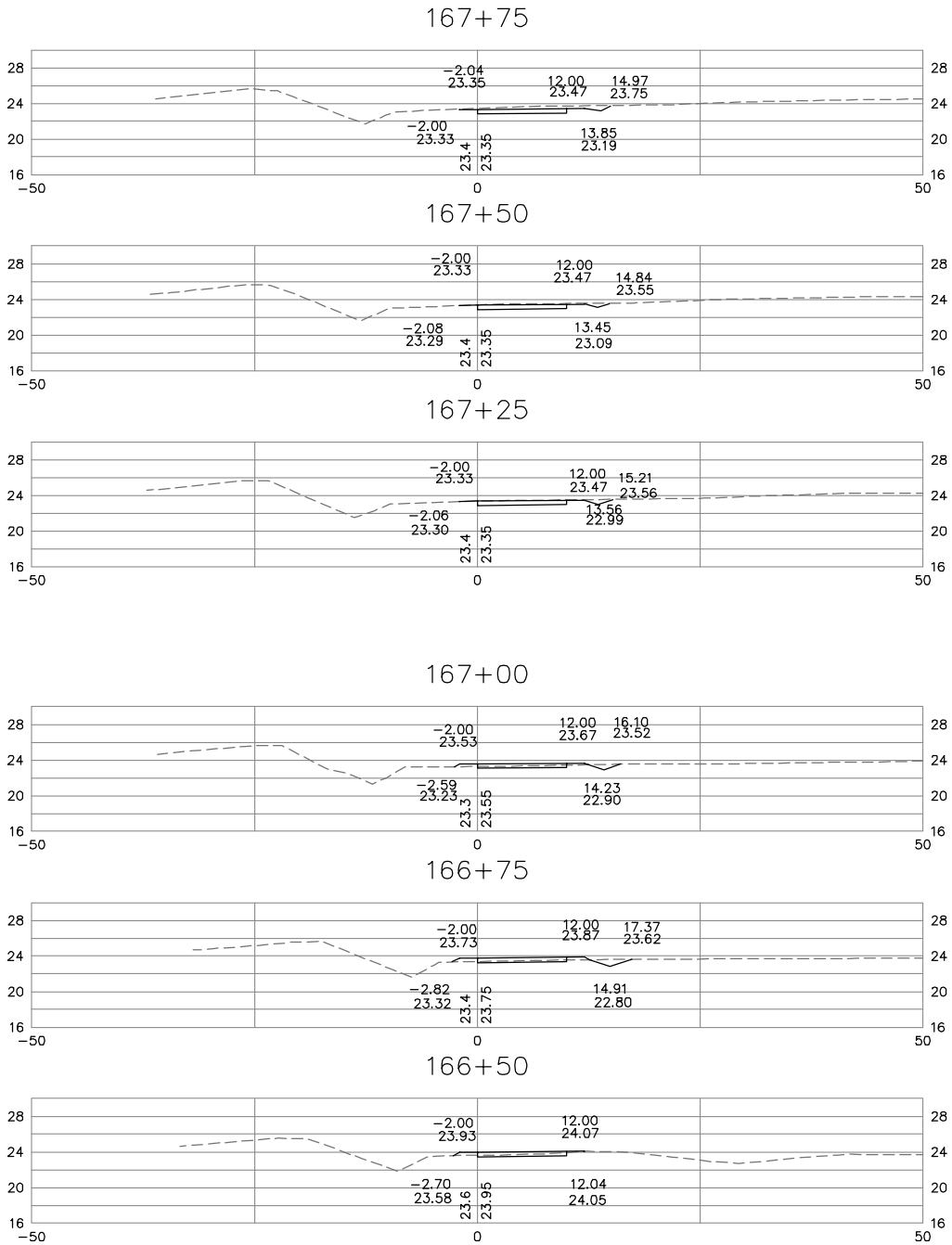


NOTE: PROPOSED
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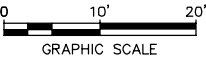


KHA PROJECT 117032000		DATE DEC. 12, 2016	SCALE AS SHOWN	DESIGNED BY CFA	DRAWN BY LUL	CHECKED BY RRJ
CROSS SECTIONS STA. 162+00 TO STA. 166+25						
SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1 TOWN OF SMITHFIELD VA						
SHEET NUMBER X14						BY DATE
REVISIONS						NO.
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NOTE: PROPOSED
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8' IN WIDTH.



SMITHFIELD TO NIKE PARK PEDESTRIAN/BICYCLE TRAIL SEGMENT 1	TOWN OF SMITHFIELD	VA	SHEET NUMBER		X15	
CROSS SECTIONS STA. 166+50 TO STA. 169+25			KHA PROJECT	117032000	DATE	DEC. 12, 2016
			SCALE	AS SHOWN	DESIGNED BY	CFA
Kimley»Horn			DRAWN BY	LUL	CHECKED BY	RRJ
			REBECCA R. JUICKSCH Lic. No. 0228894 12-12-2016 PROFESSIONAL ENGINEER			
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			No.			