



**DESIGN PUBLIC HEARING PLANS
SEPTEMBER 14, 2015**

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS.

VDOT:UPC 107146

**CITY OF HARRISONBURG
DEPARTMENT OF PUBLIC WORKS
PLAN AND PROFILE OF PROPOSED
PLEASANT VALLEY ROAD
BLACKS RUN BRIDGE REPLACEMENT**

FROM: 0.17 MI. INT. OF EARLY RD.
TO: 0.33 MI. INT. OF EARLY RD.

STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
VA.			VDOT* RS16-115-250 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
URBAN LS COLLECTOR (GS-7) - ROLLING - 45 MPH DESIGN SPEED	
Pleasant Valley Rd.	Fr: 0.17 Mi. E of Int. of Early Road To: 0.33 Mi E of Int. of Early Road.
ADT (2015)	5000
ADT (2038)	6400
DHV	820
D (%) (design hour)	5.4
T (%) (design hour)	4
V (MPH)	x

* See Plan and Profile Sheets for horizontal and vertical curve design speed

PROJECT MANAGER Thomas Hartman, P.E., City of Harrisonburg, Public Works (540)434-5928
SURVEYED BY Benner & Associates (540) 434-0267
DESIGN SUPERVISED BY Rick DeLong, P.E. (540) 248-0382
DESIGNED BY McCormick Taylor, Inc. (540) 248-0382

CONVENTIONAL SIGNS

STATE LINE	---
COUNTY LINE	---
CITY, TOWN OR VILLAGE	---
RIGHT OF WAY LINE	---
FENCE LINE	---
UNFENCED PROPERTY LINE	---
FENCED PROPERTY LINE	---
WATER LINE	---
SANITARY SEWER LINE	---
GAS LINE	---
ELECTRIC UNDERGROUND CABLE	---
TRAVELED WAY	---
GUARD RAIL	---
RETAINING WALL	---
RAILROADS	---
BASE OR SURVEY LINE	---
LEVEE OR EMBANKMENT	---
BRIDGES	---
CULVERTS	---
DROP INLET	---
POWER POLES	---
TELEPHONE OR TELEGRAPH POLES	---
TELEPHONE OR TELEGRAPH LINES	---
HEDGE	---
TREES	---
HEAVY WOODS	---
GROUND ELEVATION	---
GRADE ELEVATION	---

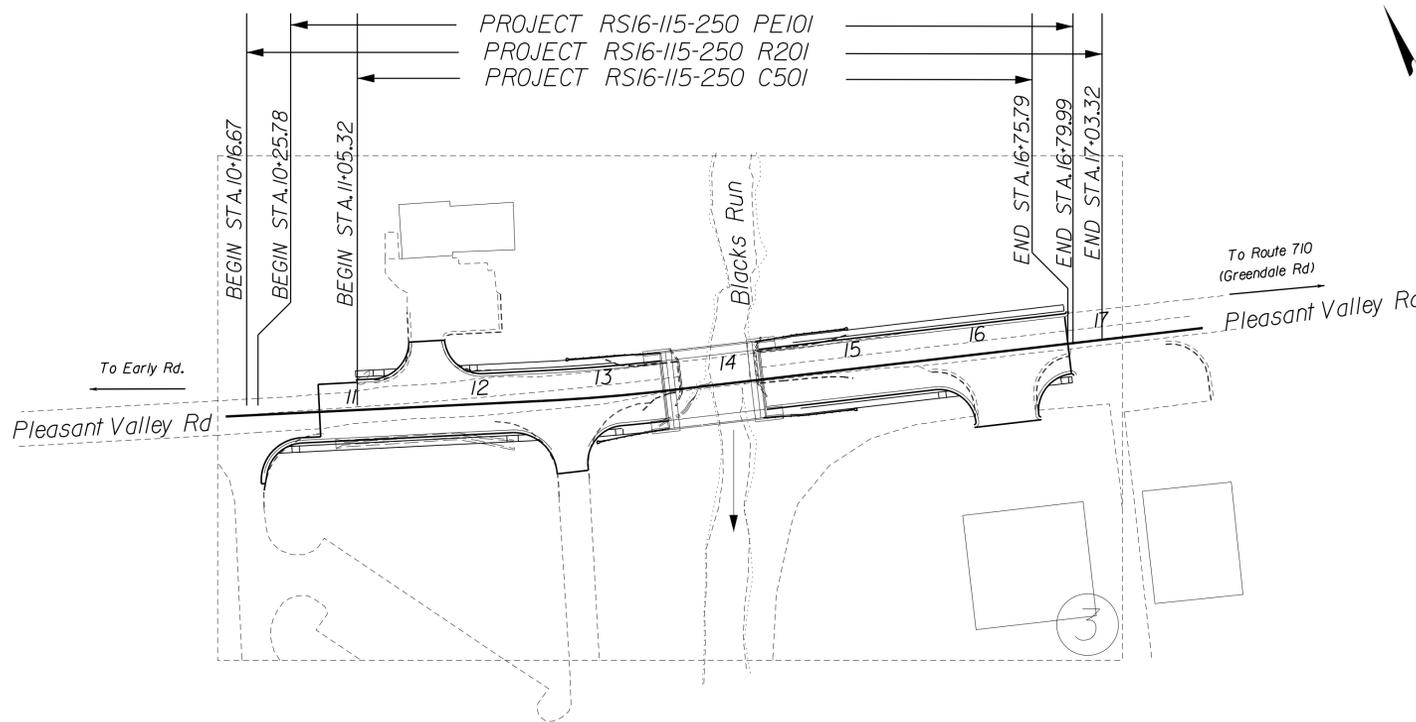
THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, HAS BEEN SEALED AND SIGNED USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE THE GENERAL NOTES.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2007 ROAD AND BRIDGE SPECIFICATIONS, 2008 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11U, EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, ARE FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.



City of Harrisonburg Population 51,395 (2013 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		TYPE PROJECT	DESCRIPTION
					FEET	MILES	FEET	MILES		
RS16-115-250	P101			107146	654.21	0.12	590.57	0.11	Prelim. Engr.	Fr: 0.17 MiE of Int. of Early Road To: 0.33 MiE of Int. of Early Road
	R201			107146	686.65	0.13	623.01	0.12	Right-of-Way	
	C501			107146	570.47	0.11	506.83	0.10	Construction	

Project Lengths are based on Pleasant Valley Construction Baselines

LOCALLY ADMINISTERED PROJECTS	
CITY OF HARRISONBURG	
JAMES D. BAKER	
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	DIRECTOR OF PUBLIC WORKS
JAMES D. BAKER	
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	DIRECTOR OF PUBLIC WORKS



PROJECT MANAGER: City of Harrisonburg, Public Works (540) 434-5928
 SURVEYED BY: Benner & Associates (540) 434-0267
 DESIGN SUPERVISED BY: McCormick Taylor, Inc. (540) 248-0436
 SUBSURFACE UTILITY BY, DATE: Miss. Utility, February 2, 2015

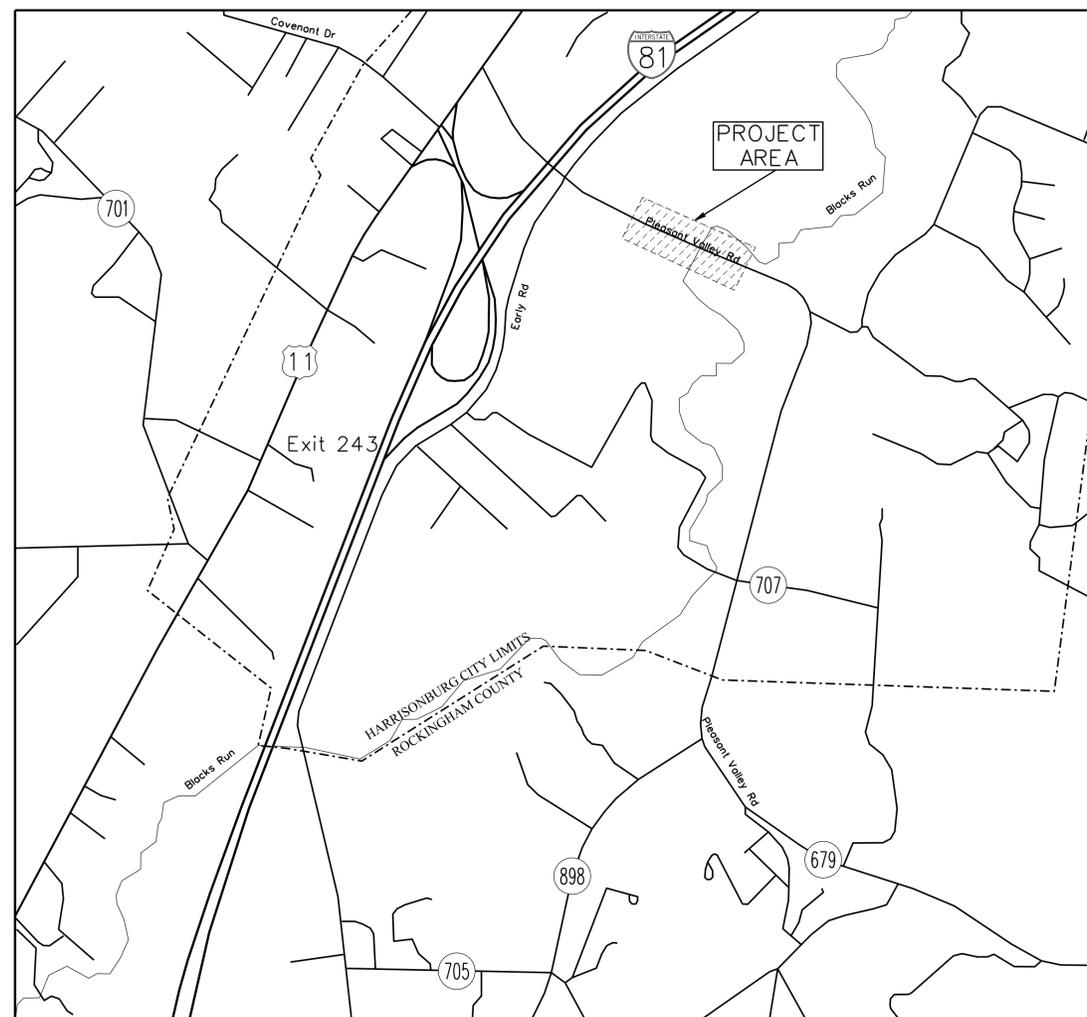
LOCATION MAP

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.		VDOT* RS16-115-250	1A

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS.



NOT TO SCALE

McCORMICK TAYLOR
 111 Mill Place Parkway
 Unit 105
 Verona, Virginia 24482
 (540) 248-0382

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.		VDOT* RS16-115-250	1A

NTS PROJECT RS16-115-250 SHEET NO. 1A

PROJECT MANAGER *City of Harrisonburg, Public Works (540) 434-5928*
 SURVEYED BY *Benoer & Associates (540) 434-0267*
 DESIGN SUPERVISED BY *McCormick Taylor, Inc. (540) 248-0436*
 SUBSURFACE UTILITY BY, DATE *Mss. Utility, February 2, 2015* -----

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 OR TO REGULATION AND CONTROL OF TRAFFIC
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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.		VDOT* RS16-115-250	1B

INDEX OF SHEETS

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SHEET NO.	DESCRIPTION
1	TITLE SHEET
1A	LOCATION MAP
1B	INDEX OF SHEETS
1C	RIGHT OF WAY DATA SHEET
1D	SURVEY & CONSTRUCTION ALIGNMENT DATA SHEET
1F(1) - 1F(4)	SOC/MOT
2	GENERAL NOTES
2A(1)	TYPICAL SECTIONS & DETAILS
3	PLEASANT VALLEY RD PLAN (10+00.00 - 17+84.37)
3A	PLEASANT VALLEY RD PROFILE (10+00.00 - 17+84.37)
* 3B	EROSION AND SEDIMENT PLAN (10+00.00 - 17+84.37)
* 4	SIGNING AND PAVEMENT MARKING PLANS
5	ENTRANCE PROFILES
	TOTAL CROSS SECTION SHEETS 7 (SEE SHEET NUMBER 1 FOR INDEX OF SHEETS)
	SPECIAL DESIGN BRIDGE PLANS SHEETS, PLAN NO.14043, RTE 4128 OVER BLACKS RUN

* DENOTES PLANS SHEETS THAT ARE NOT INCLUDED IN SUBMISSION



**McCormick
Taylor**
 111 Mill Place Parkway
 Unit 105
 Verona, Virginia 24482
 (540) 248-0382

PROJECT MANAGER: City of Harrisonburg, Public Works 15401434-5928
 SURVEYED BY: Bener & Associates 15401434-0267
 DESIGN SUPERVISED BY: McCormick Taylor, Inc. 15401 248-0436
 SUBSURFACE UTILITY BY, DATE: Miss. Utility, February 2, 2015

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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.		VDOT# RS16-115-250	ID

SURVEY & CONSTRUCTION ALIGNMENT DATA

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SURVEY ALIGNMENTS

LINE	BEARING	DISTANCE
L1	S 67°18'54" E	11.35'
L2	S 60°54'10" E	119.74'
L3	S 65°20'21" E	53.66'
L4	S 64°30'01" E	47.29'
L5	S 64°30'01" E	87.78'
L6	S 70°59'26" E	13.03'
L7	S 70°59'26" E	99.75'
L8	S 70°59'26" E	157.80'

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	123.36'	4543.66'	1°33'20"	S 64°14'34" E	123.35'
C2	124.96'	4543.66'	1°34'33"	S 65°48'30" E	124.95'
C3	57.00'	4543.66'	0°43'07"	S 66°57'20" E	57.00'
C4	305.31'	4543.66'	3°51'00"	S 65°23'24" E	305.25'

CONSTRUCTION ALIGNMENTS

Alignment Name: Proposed
 Alignment Description:
 Alignment Style: CL

	Station	Northing	Easting
<i>Element: Linear</i>			
POB ()	10+00.00	6829959.5902	11367809.7278
PC ()	12+52.57	6829846.7536	11368035.6966
<i>Tangential Direction: S 63°27'53.7516" E</i>			
<i>Tangential Length: 252.575</i>			
<i>Element: Circular</i>			
PC ()	12+52.57	6829846.7536	11368035.6966
PI ()	13+02.99	6829824.2307	11368080.8013
CC ()		6831188.7452	11368705.8149
PT ()	13+53.37	6829804.7873	11368127.3164
<i>Radius: 1500.000</i>			
<i>Delta: 3°51'00.0000" Left</i>			
<i>Degree of Curvature (Arc): 3°49'10.9872"</i>			
<i>Length: 100.793</i>			
<i>Tangent: 50.415</i>			
<i>Chord: 100.774</i>			
<i>Middle Ordinate: 0.847</i>			
<i>External: 0.847</i>			
<i>Tangent Direction: S 63°27'53.7516" E</i>			
<i>Radial Direction: S 26°32'06.2484" W</i>			
<i>Chord Direction: S 65°23'23.7516" E</i>			
<i>Radial Direction: S 22°41'06.2485" W</i>			
<i>Tangent Direction: S 67°18'53.7516" E</i>			
<i>Element: Linear</i>			
PT ()	13+53.37	6829804.7873	11368127.3164
POE ()	17+84.37	6829638.5626	11368524.9802
<i>Tangential Direction: S 67°18'53.7516" E</i>			
<i>Tangential Length: 431.007</i>			



PROJECT MANAGER *City of Harrisonburg, Public Works 15401.434-5928*
 SURVEYED BY *Benoer & Associates 15401.434-0267*
 DESIGN SUPERVISED BY *McCormick Taylor, Inc. 15401.248-0436*
 SUBSURFACE UTILITY BY, DATE *M.S.S. Utility, February 2, 2015*

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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.		VDOT* RS16-115-250	1F(1)

MAINTENANCE OF TRAFFIC PLAN

GENERAL NOTES & SEQUENCE OF CONST.

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

MAINTENANCE OF TRAFFIC NOTES

1. TRAFFIC CONTROL DEVICES AND SAFETY MEASURES SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
 - A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 (REVISIONS 1 AND 2 2012)
 - B. VDOT ROAD AND BRIDGE STANDARDS, 2008
 - C. VDOT ROAD AND BRIDGE SPECIFICATIONS, 2007
 - D. THE VIRGINIA WORK AREA PROTECTION MANUAL (WAPM), 2011 (REVISION 1 2015)
 - E. VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 (REVISION 1 2013)
2. UNLESS OTHERWISE APPROVED AND DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN, IMPLEMENT, AND MAINTAIN THE WORK NECESSARY TO PROVIDE ADEQUATE TRAFFIC CONTROL AS SPECIFIED IN THIS PLAN, IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. THIS TRAFFIC CONTROL PLAN SHOWS THE MAJOR COMPONENTS OF TRAFFIC CONTROL DEVICES TO BE IMPLEMENTED DURING CONSTRUCTION, THE DAILY CONTROL OF TRAFFIC, INCLUDING THE PROVISION, PLACEMENT, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE TRAFFIC CONTROL DEVICES REQUIRED ARE SHOWN ON THE PLAN AND SPECIFICATION FOR SUCH AS PROVIDED IN THE VIRGINIA WAPM, 2011.
4. IT IS NOT THE INTENT OF THE TRAFFIC CONTROL FEATURES DESIGNATED ON THE PLANS TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED DURING THE CONSTRUCTION, BUT ONLY TO INDICATE THE GENERAL HANDLING OF TRAFFIC. THIS IS THE PREFERRED METHOD OF TRAFFIC CONTROL FOR THE CONTRACTOR.
5. THE CITY SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE MODIFICATIONS TO EXISTING PAVEMENT MARKINGS.
6. TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
7. TEMPORARY CONSTRUCTION SIGNAGE SHALL NOT OBSTRUCT EXISTING PERMANENT TRAFFIC CONTROL DEVICES.
8. EQUIPMENT AND VEHICLES PARKED ON THE CONSTRUCTION SITE SHALL NOT IMPEDE TRAFFIC FLOW OR OBSTRUCT SIGHT DISTANCE.
9. THE CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED BY ACTUAL FIELD CONDITIONS OR TO ACCOMMODATE HIS EQUIPMENT, IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE WAPM.
10. THE CONTRACTOR IS REMINDED THAT THE APPROVAL OF THESE PLANS IS NOT INTENDED TO RELIEVE HIM OF THE RESPONSIBILITY FOR THE PROTECTION OF THE PUBLIC AND THE CONSTRUCTION PERSONNEL. THE STANDARDS PRESCRIBED HEREIN ARE MINIMUM AND ADDITIONAL PROTECTION MAY BE NEEDED IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE TERM OF THE PROJECT. CONSTANTLY REVIEW THIS PLAN FOR ADEQUACY AND RECOMMEND CHANGES FOR THE CITY'S APPROVAL WHEN INADEQUACIES ARE DISCOVERED.
11. ALL TEMPORARY TRAFFIC AND CONSTRUCTION SIGNAGE AS WELL AS CONSTRUCTION SCHEDULES MUST BE COORDINATED WITH ANY OTHER CONSTRUCTION PROJECTS IN THE AREA.
12. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS IN RESPONSE TO SITE CONDITIONS. ALL MODIFICATIONS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
13. A PRE-CONSTRUCTION MEETING WILL BE HELD PRIOR TO THE START OF THE PROJECT AND WILL BE ATTENDED BY THE CITY, THE CONTRACTOR, AND THE CITY'S INSPECTOR.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY TRAFFIC CONTROL SUCH AS LANE CLOSURES, FLAGGERS.

MAINTENANCE OF TRAFFIC NOTES (CONT.)

15. ALL REQUIRED CONSTRUCTION SIGNING AND SUPPORTS, TRAFFIC BARRIER SERVICE, TEMPORARY PAVEMENT MARKINGS, PAVEMENT MARKING ERADICATION, CHANNELIZING DEVICES, ARROW BOARDS, PORTABLE CHANGEABLE MESSAGE SIGNS, ETC. SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE FOR THE LUMP SUM MAINTENANCE OF TRAFFIC ITEM. PERMANENT PAVEMENT MARKINGS SHALL BE A SEPARATE PAY ITEM.
16. CONTRACTOR SHALL PROVIDE NECESSARY PROTECTION FOR EXISTING FEATURES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING CURB/GUTTER, SIDEWALK, SHOULDER, ADJACENT STRUCTURES, AND PUBLIC FACILITIES.
17. DRUMS WITH A MINIMUM HEIGHT OF 36" SHALL BE USED AT ALL TRANSITIONS. METAL DRUMS SHALL NOT BE USED.
18. ALL EXISTING SIGNS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. SIGNS SHOWING CONFLICTING MESSAGES SHALL BE COVERED OR REMOVED DURING CONSTRUCTION.
19. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PARCEL ENTRANCES AT ALL TIMES DURING CONSTRUCTION.
20. TEMPORARY CLOSURES AFFECTING INGRESS/EGRESS TO ADJACENT PROPERTIES SHALL BE COORDINATED WITH AFFECTED PARTIES.
21. PEDESTRIAN DETOURS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACCORDING TO VIRGINIA WORK AREA PROTECTION MANUAL AND MUTCD GUIDELINES.
22. THE CLEAR ZONE SHALL BE MAINTAINED FREE OF PARKED EQUIPMENT, VEHICLES, AND STORED MATERIAL, OR OTHERWISE PROTECTED, AT ALL TIMES IN ACCORDANCE WITH THE VIRGINIA WAPM.
23. ALL SIGNS, GROUP 2 CHANNELIZING DEVICES, TRAFFIC BARRIER SERVICES, IMPACT ATTENUATORS, BARRICADES, AND ANY OTHER DEVICES USED IN THE CONSTRUCTION SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL BE KEPT CLEAN AND PROPERLY ALIGNED AT ALL TIMES.
24. TRAFFIC BARRIER SERVICE SHALL BE INSTALLED AND REMOVED SO AS NOT TO PRESENT ANY BLUNT END OR HAZARD TO THE MOTORING PUBLIC. THE PLACEMENT AND REMOVAL OF THE TRAFFIC BARRIER SERVICE AND BARRICADES ARE TO BE COORDINATED BY THE CITY. THE CONTRACTOR SHALL LIFT BARRIER SERVICE INTO PLACE. SLIDING TRAFFIC BARRIER INTO SERVICE WILL NOT BE PERMITTED.
25. ALL CONSTRUCTION SIGNS THAT GOVERN TRAFFIC FLOW THROUGH THE WORK ZONE SHALL BE COVERED OR REMOVED AND STORED AWAY FROM TRAFFIC WHEN NOT IN USE.

SEQUENCE OF CONSTRUCTION

1. UTILIZE WAPM FIGURE TTC-48J & 34J TO SET UP DETOUR OF PLEASANT VALLEY RD AS SHOWN ON THE PLANS.
2. RELOCATE EXISTING WATER LINE
3. RECONSTRUCT PLEASANT VALLEY RD BRIDGE OVER BLACKS RUN AND THE ROADWAY APPROACHES TO THE BRIDGE. MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
4. INSTALL THE FINAL PAVEMENT MARKINGS.
5. AT THE CONCLUSION OF THE PROJECT, REMOVE TRAFFIC BARRIER SERVICE AND ALL TEMPORARY SIGNS, BARRICADES, AND CHANNELIZING DEVICES.

McCORMICK TAYLOR
 111 Mill Place Parkway
 Unit 105
 Verona, Virginia 24482
 (540) 248-0382

PROJECT
RS16-115-250

SHEET NO.
1F(1)

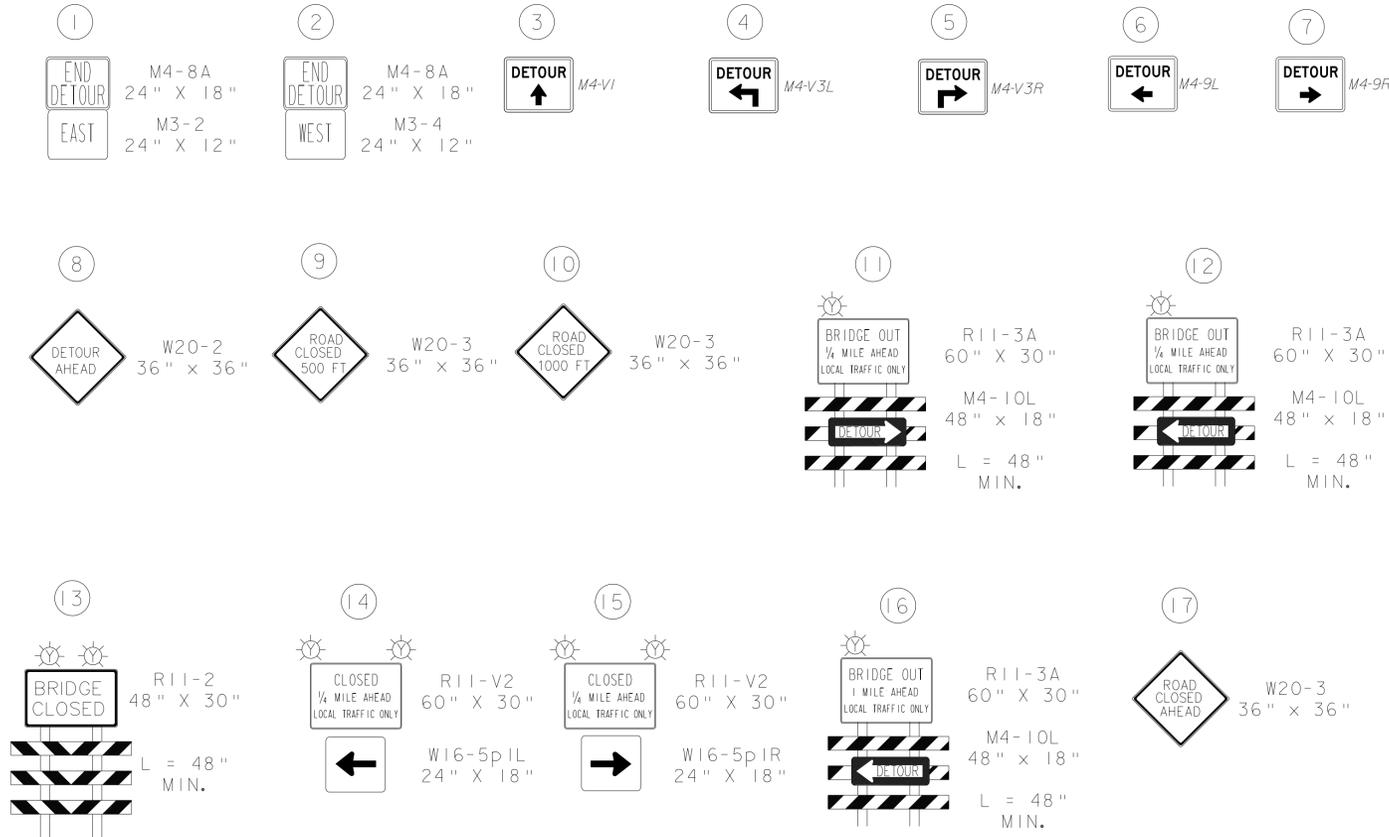
PROJECT MANAGER: *City of Harrisonburg, Public Works 15401.434-5928*
 SURVEYED BY: *Bender & Associates 15401.434-0267*
 DESIGN SUPERVISED BY: *McCormick Taylor, Inc. 15401.248-0436*
 SUBSURFACE UTILITY BY, DATE: *Mss. Utility, February 2, 2015*

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		VDOT# RS16-115-250	1F(2)

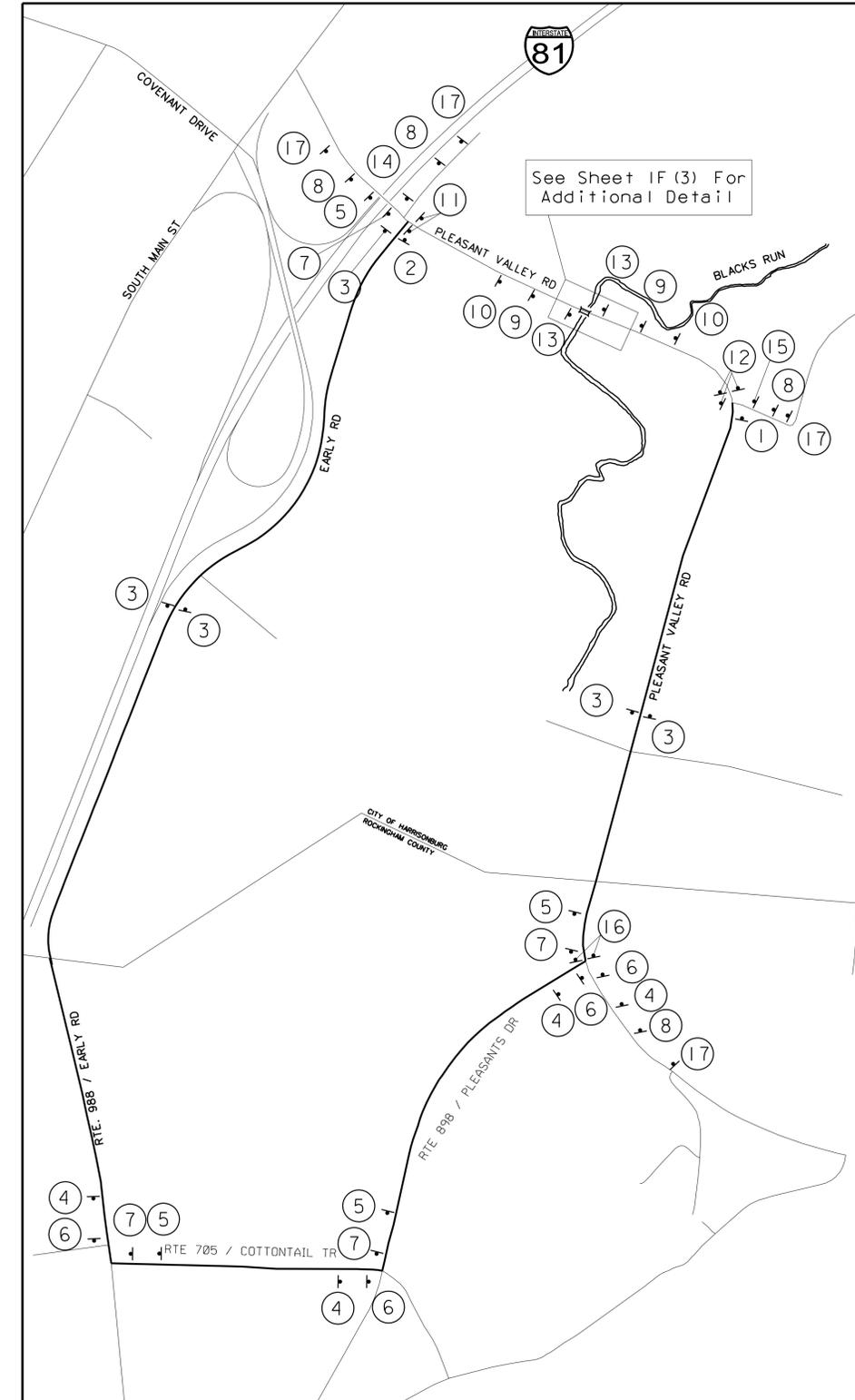
MAINTENANCE OF TRAFFIC DETOUR

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LEGEND

- ① SIGN GROUP NUMBER
- ☼ TYPE B WARNING LIGHT
- ▬▬▬ TYPE 3 BARRICADE



N.T.S	PROJECT RS16-115-250	SHEET NO. 1F(2)
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PROJECT MANAGER City of Harrisonburg, Public Works (540) 434-5928
SURVEYED BY Bender & Associates (540) 434-0267
DESIGN SUPERVISED BY McCormick Taylor, Inc. (540) 248-0436
SUBSURFACE UTILITY BY DATE Miss. Utility, February 2, 2015

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		VDOT* RS16-115-250	1F(3)

MAINTENANCE OF TRAFFIC BRIDGE DETAIL

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MAINTAIN ACCESS TO FIRE DEPT. AT ALL TIMES. CAREFULLY PLACE CHANNELIZING DEVICES TO ENSURE THAT FIRE TRUCKS CAN SAFELY ENTER AND EXIT THE DRIVEWAY. COORDINATE WITH THE FIRE DEPARTMENT TO TEST THE DEVICE PLACEMENT TWO WEEKS PRIOR TO THE ONSET OF THE PROJECT.

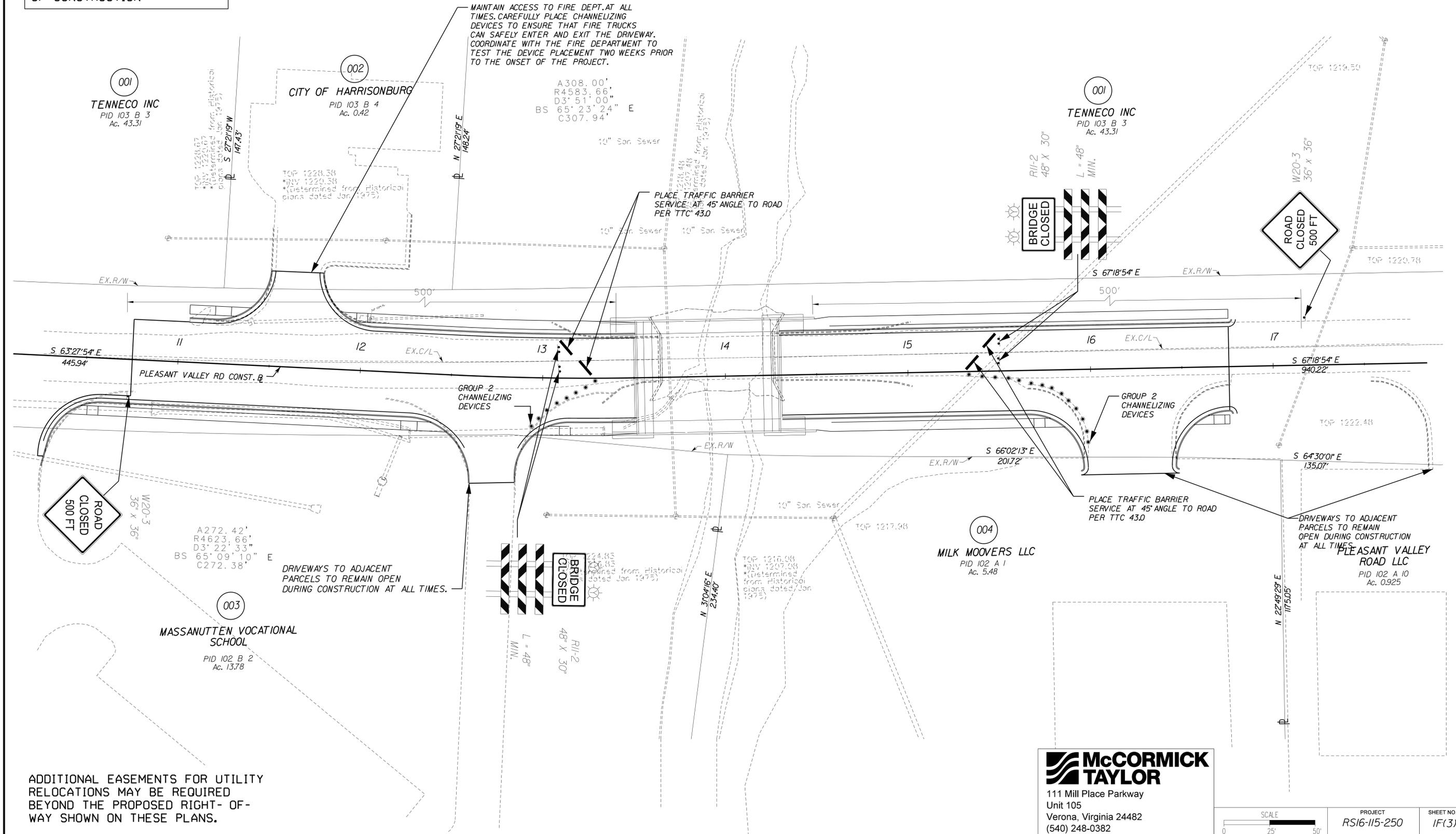
PLACE TRAFFIC BARRIER SERVICE AT 45° ANGLE TO ROAD PER TTC 43.0

PLACE TRAFFIC BARRIER SERVICE AT 45° ANGLE TO ROAD PER TTC 43.0

DRIVEWAYS TO ADJACENT PARCELS TO REMAIN OPEN DURING CONSTRUCTION AT ALL TIMES.

DRIVEWAYS TO ADJACENT PARCELS TO REMAIN OPEN DURING CONSTRUCTION AT ALL TIMES.

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McCORMICK TAYLOR
111 Mill Place Parkway
Unit 105
Verona, Virginia 24482
(540) 248-0382

SCALE 0 25' 50'	PROJECT RS16-115-250	SHEET NO. 1F(3)
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PROJECT MANAGER: City of Harrisonburg, Public Works 15401.434-5928
SURVEYED BY: Benner & Associates, 15401.434-0267
DESIGN SUPERVISED BY: McCormick Taylor, Inc. 15401.248-0436
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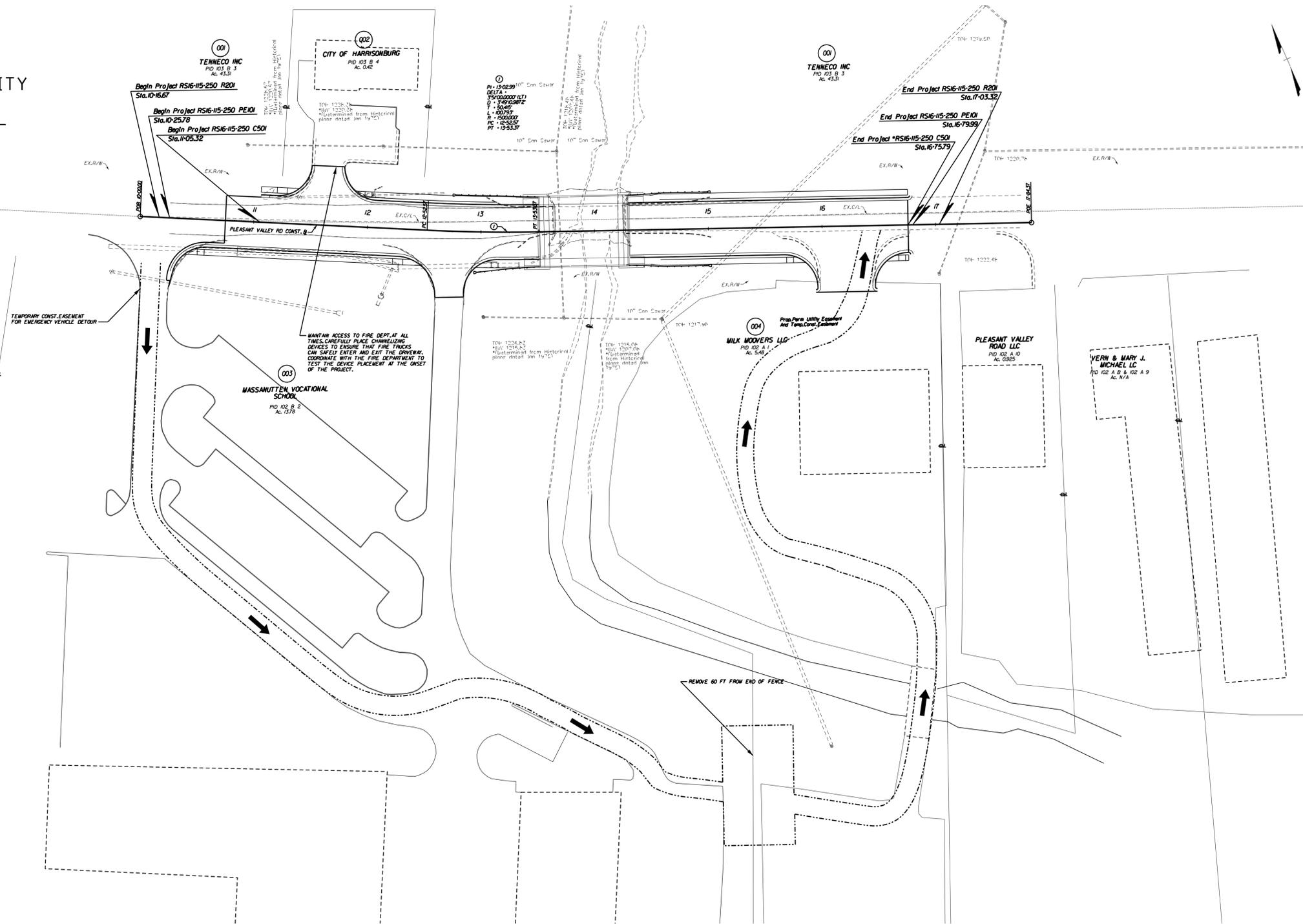
MAINTENANCE OF TRAFFIC EMERGENCY VEHICLE DETOUR

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.		VDOT* RS16-115-250	IF(4)

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McCORMICK TAYLOR
111 Mill Place Parkway
Unit 105
Verona, Virginia 24482
(540) 248-0382

SCALE 0 50' 100'	PROJECT RS16-115-250	SHEET NO. IF(4)
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PROJECT MANAGER *City of Harrisonburg, Public Works 15401.434-5928*
 SURVEYED BY *Benoer & Associates, (540).434-0267*
 DESIGN SUPERVISED BY *McCormick Taylor, Inc. (540) 248-0436*
 SUBSURFACE UTILITY BY, DATE *M.Ss. Utility, February 2, 2015* -----

GENERAL NOTES

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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.		VDOT* RS16-115-250	2

GENERAL NOTES

- Work in this project shall conform to the latest editions of the Virginia Department of Transportation (VDOT) Road and Bridge Specifications, the VDOT Road and Bridge Standards, the Virginia Erosion and Sediment Control Handbook, the Virginia Erosion and Sediment Control Regulations and the City of Harrisonburg Design and Construction Standards Manual. In the event of conflict between any of these standards, specifications or plans, the most stringent shall govern. All utilities to be dedicated to the City of Harrisonburg Municipal Water and/or Sanitary Sewer System shall be constructed and tested to conform to Commonwealth of Virginia/Department of Health Waterworks Regulations and/or Department of Environmental Quality Sewerage Collection and Treatment Regulations and the City of Harrisonburg Design and Construction Standards Manual.
- When the crushed stone construction entrance has been covered with soil or has been pushed into the soil by construction traffic, it shall be replaced with a depth of stone equal to that of original application.
- The location of existing utilities as shown is approximate only. The contractor is responsible for locating all public or private utilities that lie in or adjacent to the construction site. The contractor shall be responsible for repairing, at his expense, all existing utilities damaged during construction. Forty-eight (48) hours prior to any excavation call Miss Utility 1 (800) 552-7001.
- All underground facilities located within the City's rights-of-way shall be installed prior to the placement of any part of the pavement structure.
- When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.
- All materials used for fill or backfill shall be free of wood, roots, rocks, boulders or any other non-compactable soil type material. Unsatisfactory materials also include man-made fills and refuse debris derived from any source.
- Satisfactory material for use as fill for public streets include material classified in ASTM D-2487 as GW, GP, GM, GC, SW, SP, SM, SC, ML, and CL groups. The moisture content shall be controlled within plus or minus 2 percentage points of optimum to facilitate compaction. Generally, unsatisfactory materials include materials classified in ASTM D-2487 as PT, CH, MH, OL, OH, and any soil too wet to facilitate compaction. CH and MH soils may be used subject to approval of the Engineer. Soils shall have a minimum dry density of 92lb/cubic foot per ASTM D-698 and shall have a plasticity index less than I2.
- Materials used to construct embankments for any purpose, backfill around drainage structures or in utility trenches, or any other depression requiring fill or backfill shall be compacted to 95% of maximum density as determined by the standard Proctor test as set out in ASTM standard D-698. The contractor shall, prior to any operations involving filling or backfilling, submit the result of the Proctor test together with a certification that the soil tested is representative of the materials to be used on the project. Tests shall be conducted by a certified materials testing laboratory and the certifications made by a licensed professional Engineer representing the laboratory.
- Embankment fill and trench backfill shall be placed in lifts at a maximum uncompacted depth of 8-inches and 6-inches, respectively. Density tests shall be conducted at the following minimum frequencies:
 - Embankment for roads, streets, dams, etc.: One test per lift per each approach.
 - Backfill around structures and in trenches: One test per lift per each approach.
- Compaction tests for street pavement structure shall be made in cut and fill areas at the following minimum frequencies:
 - Sub-Grade: One test per lane per 500 lineal feet.
 - Stone Base: One test per lane per 6' compacted lift per each approach.
 - Hot Asphaltic Concrete: One test per lane per lift per each approach.
- All excavations, including trenches, shall be kept dry to protect their integrity.
- Test results shall be submitted to the Engineer. Failure to conduct density tests shall be cause for non-acceptance of the facility. Tests shall be conducted at the sole cost of the Contractor.
- All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/traffic control plans, pavement marking plan sheets 5A thru 5B and as directed by the Engineer.
- Pavement design is based upon sub grade CBR of 4 and a RF of 2.
- City Inspectors have full authority to reject fill or backfill materials, require undercutting or sub grade stabilization, require provisions for sub drainage, or require other measures which affect the integrity of road and utility construction. Failure to comply with Inspectors' directives shall be cause for nonacceptance of the facility.
- Traffic control on public streets shall be in conformance with the Manual of Uniform Traffic Control Devices and as further directed by City Inspectors.
- Any discrepancies found between the drawings and specifications and site conditions or any inconsistencies or ambiguities in drawings or specifications shall be immediately reported to the Engineer, in writing, who shall promptly address such inconsistencies or ambiguities. Work done by the contractor after his discovery of such discrepancies, inconsistencies or ambiguities shall be done at the contractor's risk.
- A preconstruction conference shall be held prior to the start of construction. The contractor shall arrange the meeting with the Public Works Department and/or Engineer.
- Install City standard street centerline monuments where required for new streets per City standards. Coordinate with City Surveyor for placing of monuments. The City will provide monuments and contractor will be responsible for installation of monuments.
- Temporary construction easements shown are being provided by private property owners in total cooperation with the City. Such easements are for access and temporary occupation only as necessary to complete the work. Unless an owner specifically agrees, contractor shall not use these areas for long term storage of materials, equipment or vehicles (including employee vehicles) and shall endeavor to limit impact on these areas to a minimum. If owner is to agree contractor shall provide written agreement to the City. Contractor shall cooperate with property owners to address their concerns over use of, or access to, their property. All damage to public and private properties caused by the contractor's operations or negligence, beyond that defined by the work itself, shall be repaired to the City's satisfaction at no additional cost to the owner.
- Provide rodding and concrete thrust blocking of waterline appurtenances in accordance with City standards. Provide waterline taps as necessary for pressure testing and bacteriological sampling. All waterline testing is the contractor's responsibility. City Inspector shall witness pressure test and collect samples.
- Grass channels, whether detailed or a result of slope ties, shall be overseeded, protected, maintained and reseeded as necessary to establish erosion-resistant grass cover.
- Pipe lengths shown are from center-to-center of structures.

- Existing edge of pavement (E.P.) is defined as face of gutter in curbed sections or painted edge line in shoulder sections. At locations shown on the plan sheets, prior to widening, saw cut existing pavement 1' from E.P. and remove asphalt and stone material beyond.
- "To be removed" and "remove" indicates contractor's work unless noted to be by others.
- Driveway replacements shall match existing driveways, whether gravel, concrete or paved. Minimum thickness for gravel drives shall be 6 inches of compacted 21A Stone. Minimum paved driveway section shall be 6 inches compacted 21A stone with 2 inches SM-12.5D asphaltic concrete.
- Limits of all driveway replacements shall be confirmed in field with the Public Works Inspector and/or Public Works Engineer.
- Precast units adjacent to cast-in-place concrete items, such as sidewalks, ditches, gutters and flumes, shall be connected to the adjacent unit by means of No. 4 smooth steel dowels spaced on approximately 12 - inch centers throughout the contact length and extend at least into both the precast unit and the cast-in place item. Refer to VDOT Road and Bridge Specs, detail Jan.1994, sect. 302.03, page 293, paragraph (B) IE
- The contractor shall control dust caused by construction activities per VDOT Specifications. The cost for allaying dust shall be included in the price bid for Traffic Control.
- The material listed below will be paid for on a tonnage basis on this project. The theoretical tonnage shown on these plans is based on the weight shown hereon. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of theoretical maximum density.
- Asphalt Concrete Surface Type SM-12.5D @ 220 lbs. per sq. yd., Asphalt Concrete Base Type BM-25.0 @ 8' depth. Aggregate Base Material Type 1 No. 21A @ 10' depth.
- When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.
- Contractor may utilize any City owned parcel for purposes of staging.

DEMOLITION / RELOCATION NOTES

- Unless a separate pay item is listed, cost for removal of an item is included in the contract unit price for the corresponding new item or the cost shall be incidental to other items.
- Temporary and permanent relocation of all signs and mailboxes in project area shall be performed in accordance with section 104.05 of the VDOT standard specifications as well as City sign specifications. Contractor shall consider that all re-installed signs must meet MUTCD, and the Virginia supplement of the MUTCD, height standards regardless of height of existing sign. New mailbox locations must allow for minimum 3.5 ft. clearance from back edge of mailbox to back edge of sidewalk.
- Existing utility poles, overhead and underground utility lines and appurtenances (gas, electric, telephone, cable, computer) are to be relocated by utility companies as necessary to accommodate the work. Some of this may take place during the project. Contractor shall coordinate his work with utility companies to ensure an orderly schedule for this work. Contractor shall be flexible in working around utilities yet to be relocated, and shall give sufficient notice to utility companies if any such relocations are on the critical path for construction of contract items.
- Remove all curb and gutter, entrance gutter and concrete entrances within project area as necessary to widen road and to construct new entrances and curb and gutter per plans.
- Existing large trees and shrubs are shown. Smaller trees and shrubs may not be shown. Contractor shall examine site prior to bid and determine extent of tree and shrub removal necessary to complete other work, and shall include the cost for all such removal in his bid item for "clearing and grubbing". Coordinate with private owners' relocation of trees and shrubs, providing advanced notice where work scheduling requires such removal.
- Refer to water and sewer requirements on Sheet 6(1) for information on relocating and adjusting water and sewer facilities.
- The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for earthwork: curb, curb and gutter, curb ramps, sidewalk, entrances, drop inlets, light foundations, median islands.

EROSION CONTROL NOTES

- Erosion and sediment control measures shall be installed and maintained in accordance with the Virginia Erosion and Sediment Control Handbook. They shall be maintained continuously, relocated when and as necessary, and shall be checked after every rainfall. Seeded areas shall be checked regularly and shall be watered, fertilized, reseeded and mulched as necessary to obtain a dense stand of grass.
- Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant (undisturbed) for longer than 30 days.
- During construction of the project, soil stockpiles and borrow areas shall be stabilized or protected with sediment trapping measures. The contractor is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as borrow areas and soil intentionally transported from the project site.
- A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered until a ground cover is achieved that, in the opinion of the City Erosion Control Administrator or his designated agent, is uniform, mature enough to survive and will inhibit erosion.
- Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land disturbing activity and shall be made functional before upslope land disturbance takes place.
- Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
 - No more than 500 linear feet of trench may be opened at one time.
 - Excavated material shall be placed on the uphill side of trenches.
 - Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.
 - Restabilization shall be accomplished in accordance with the contract documents.
 - Applicable safety regulations shall be complied with.
- Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a public road surface, the road shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner.
- All unstabilized areas are to drain to approved sediment control measures at all times during land disturbing activities and during site development until final stabilization is achieved.
- The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the City Erosion Control Administrator.
- Stabilization measures shall be applied to earthen structures such as dams, dikes, and diversions immediately after installation.
- All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the City Erosion Control Administrator. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.
- During dewatering operations, water shall be pumped into an approved filtering device.
- Topsoil and seed all disturbed areas not otherwise covered.
- All drain inlets shall be protected from siltation. Ineffective protection devices shall be immediately replaced and the inlet cleaned. Flushing is not an acceptable method of cleaning.



**McCORMICK
TAYLOR**
 111 Mill Place Parkway
 Unit 105
 Verona, Virginia 24482
 (540) 248-0382

PROJECT	SHEET NO.
RS16-115-250	2

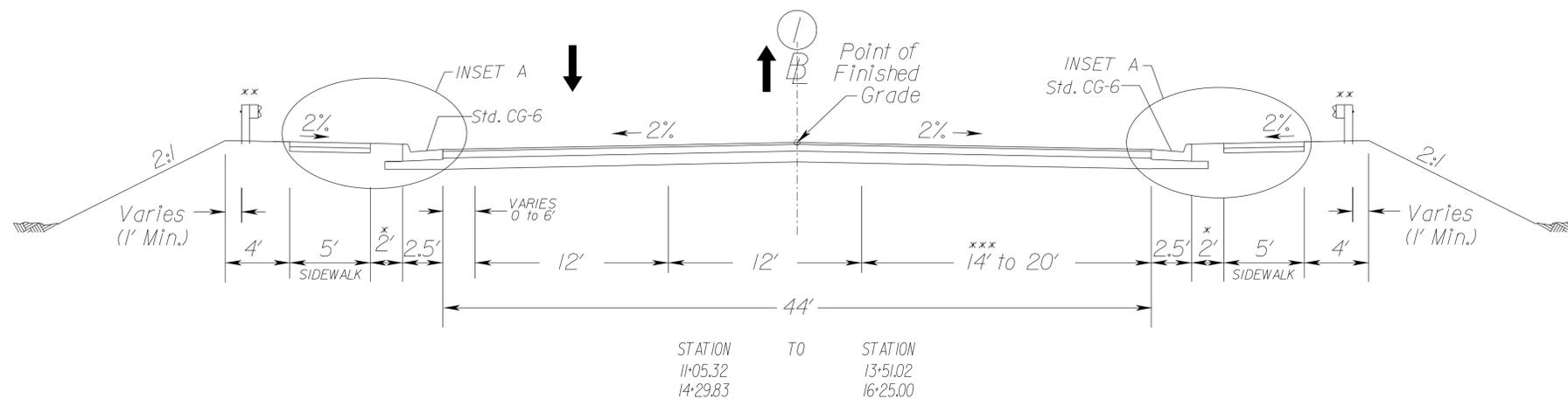
PROJECT MANAGER: City of Harrisonburg, Public Works 15401.434-5928
 SURVEYED BY: Bener & Associates, (540) 434-0267
 DESIGN SUPERVISED BY: McCormick Taylor, Inc. (540) 248-0436
 SUBSURFACE UTILITY BY DATE: M.I.S.S. Utility, February 2, 2015

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		VDOT# RS16-115-250	2A(1)

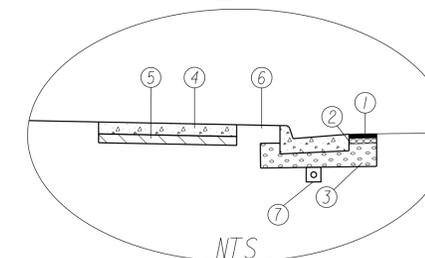
TYPICAL SECTIONS

TWO LANE CONFIGURATION



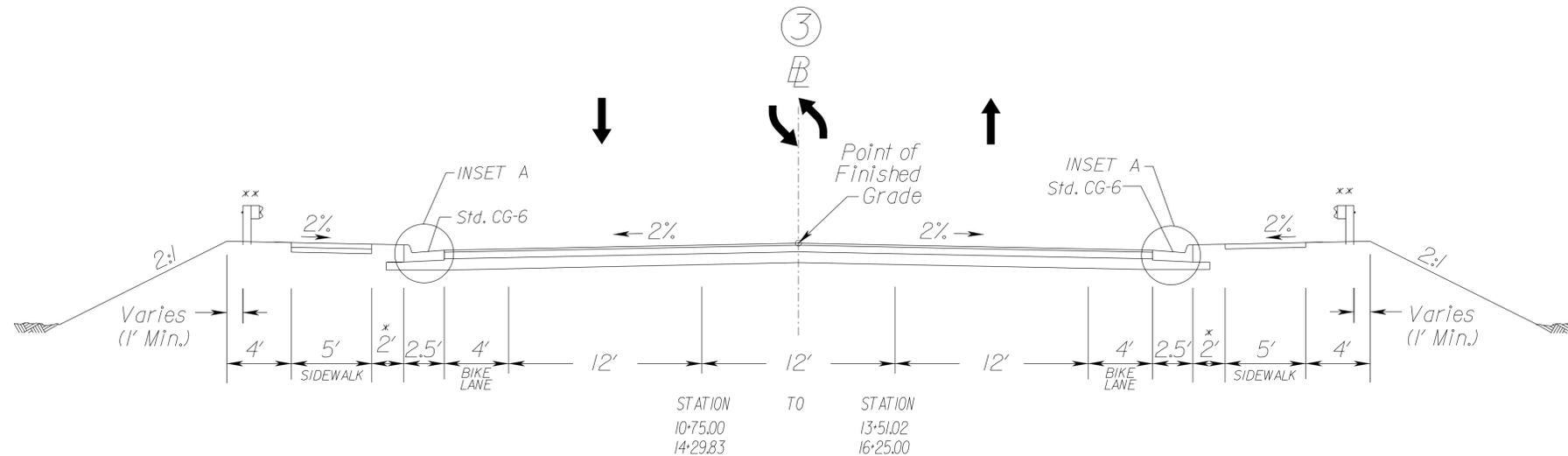
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

INSET A



- ① ASPHALT CONCRETE SURFACE COURSE TYPE SM-12.5D @ 220 LBS. PER SQ. YD.
- ② 8" ASPHALT CONCRETE BASE COURSE TYPE BM-25.0D
- ③ 8" AGGREGATE BASE MATERIAL TYPE 1 NO. 21B (For Subbase)
- ④ ASPHALT CONCRETE SURFACE COURSE TYPE SM-12.5D @ 220 LBS. PER SQ. YD. (MILL AND OVERLAY WHERE APPLICABLE)
- ⑤ ASPHALT CONCRETE SURFACE COURSE TYPE SM-12.5D @ 220 LBS. PER SQ. YD. (MILL AND OVERLAY WHERE APPLICABLE)
- ⑥ 4" TOPSOIL & SEEDING REQ'D ON DISTURBED AREA
- ⑦ ST'D UD-4

ULTIMATE CONFIGURATION



* Varies 0' to 2' at bridge approach
 ** See Plan View for Guard Rail Location and Station Range
 *** Striped Shoulder

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PROJECT	SHEET NO.
RS16-115-250	2A(1)

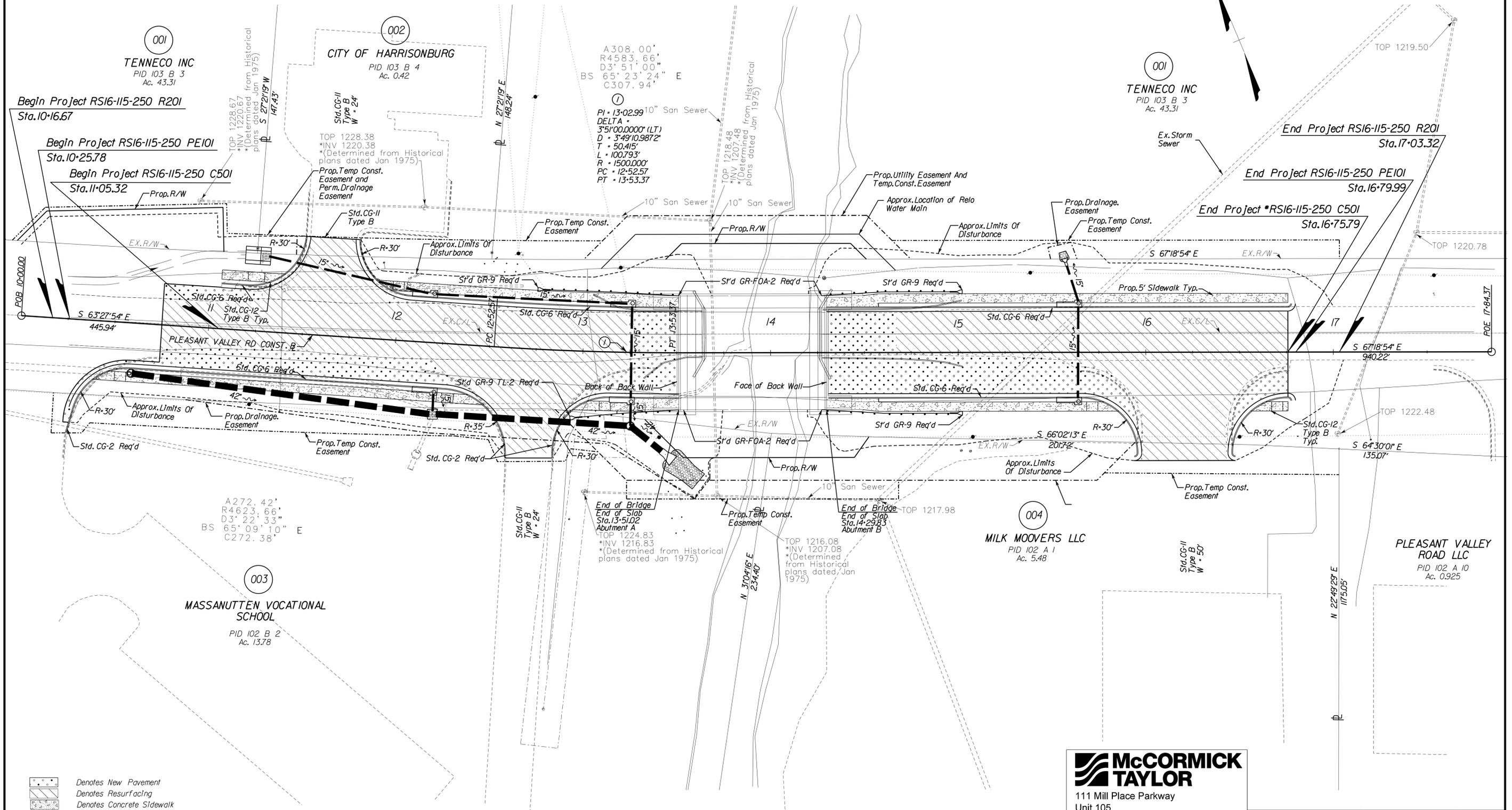
PROJECT MANAGER *City of Harrisonburg, Public Works 15401.434-5928*
SURVEYED BY *Benoer & Associates, 15401.434-0267*
DESIGN SUPERVISED BY *McCormick Taylor, Inc. 15401.248-0436*
SUBSURFACE UTILITY BY DATE *M.I.s.s. Utility, February 2, 2015*

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		VDOT* RS16-115-250	3

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS.



- Denotes New Pavement
- Denotes Resurfacing
- Denotes Concrete Sidewalk

McCORMICK TAYLOR
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SCALE	PROJECT	SHEET NO.
0 25' 50'	RS16-115-250	3

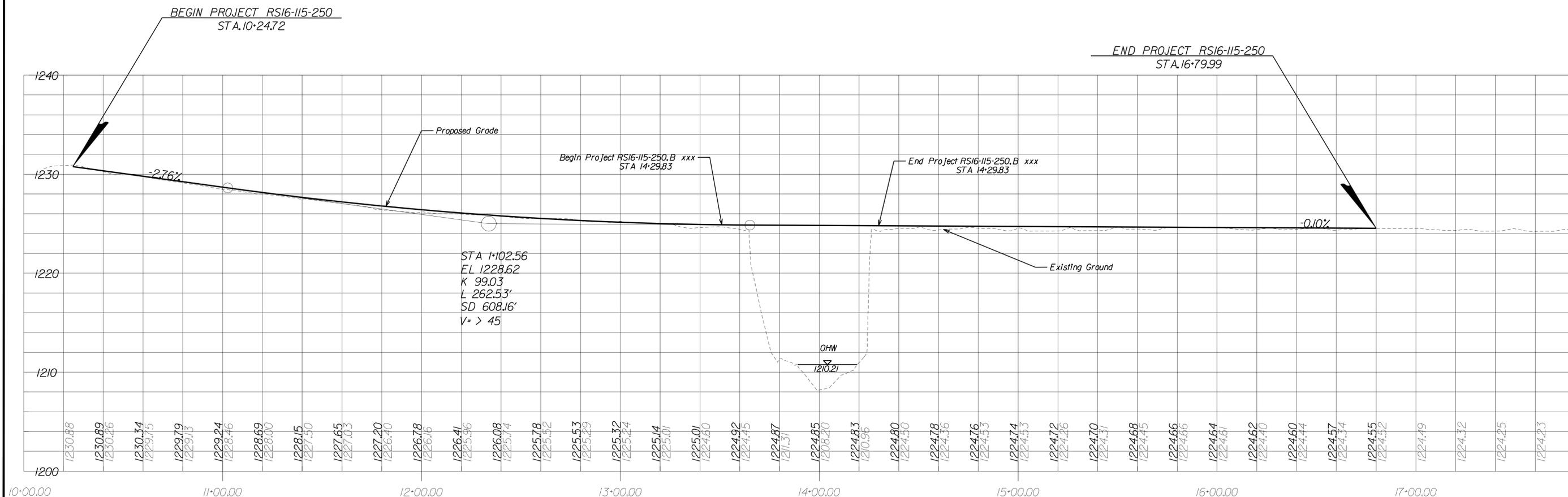
PROJECT MANAGER *City of Harrisonburg Public Works (540) 434-5928*
 SURVEYED BY *Benner & Associates (540) 434-0267*
 DESIGN SUPERVISED BY *McCormick Taylor, Inc. (540) 248-0436*
 SUBSURFACE UTILITY BY, DATE *Miss. Utility, February 2, 2015*

PROFILE VIEW

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.		VDOT# RS16-115-250	3A

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V = 1"=5'
H = 1"=25'

PROJECT
RS16-115-250

SHEET NO.
3A

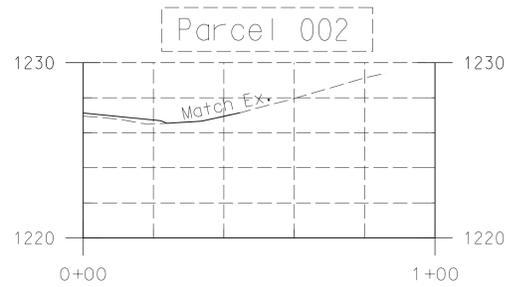
PROJECT MANAGER *City of Harrisonburg Public Works (540) 434-5928*
 SURVEYED BY *Bender & Associates (540) 434-0267*
 DESIGN SUPERVISED BY *McCormick Taylor, Inc. (540) 248-0436*
 SUBSURFACE UTILITY BY, DATE *M.S.S. Utility, February 2, 2015*

ENTRANCE PROFILES

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY

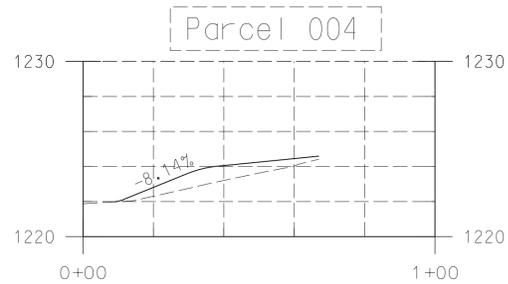
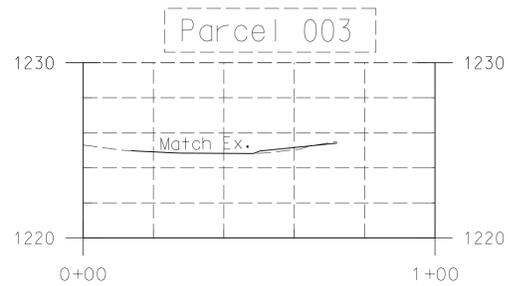
REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.		VDOT# RS16-115-250	5

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LINE	SURFACE	OFFSET
---	Existing	0.00
—	Proposed	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.



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V = 1"=5'
H = 1"=25'

PROJECT
RS16-115-250

SHEET NO.
5

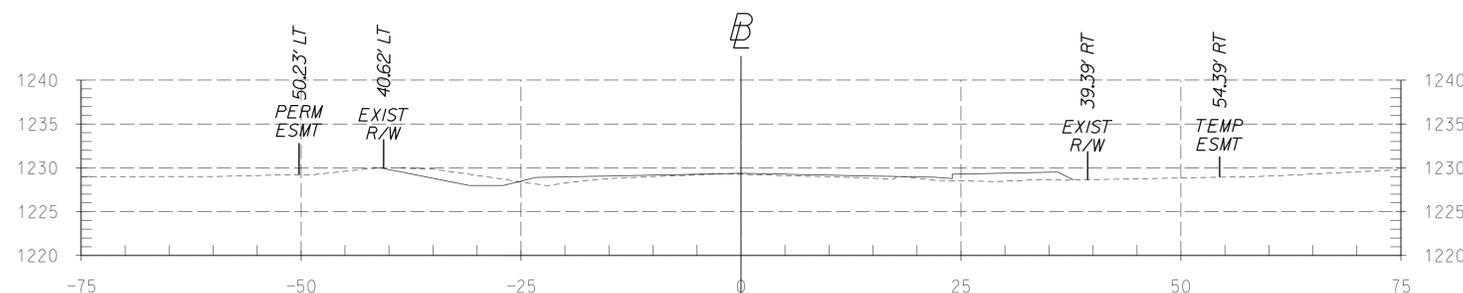
PROJECT MANAGER: City of Harrisonburg, Public Works (540) 434-5928
 SURVEYED BY: Bener & Associates (540) 434-0267
 DESIGN SUPERVISED BY: McCormick Taylor, Inc. (540) 248-0436
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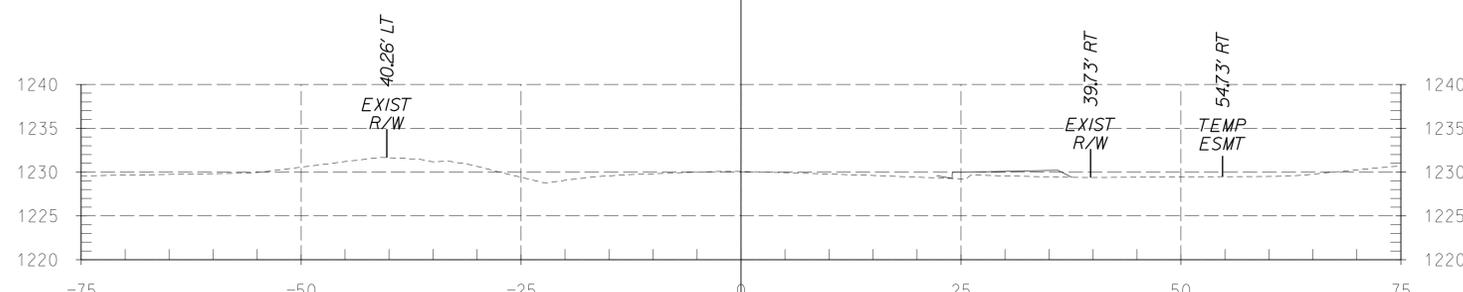
REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.		VDOT# RS16-115-250	XI

CROSS SECTIONS

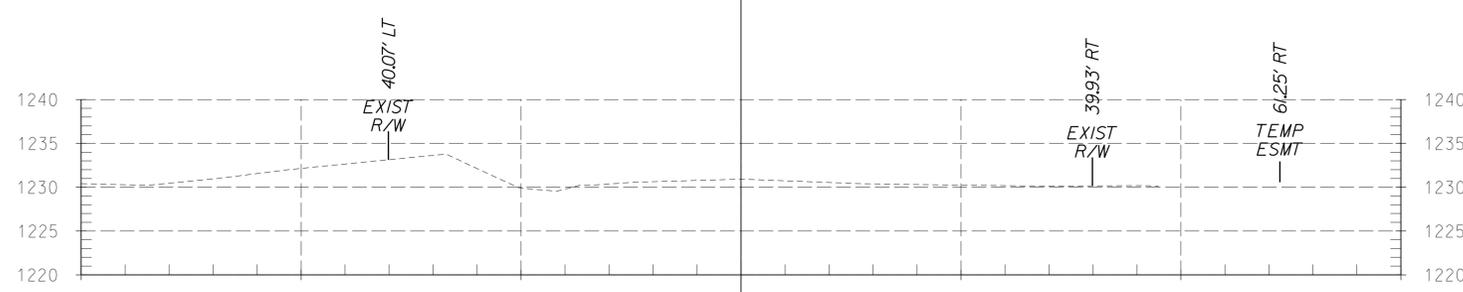
STA 10+00 TO STA 12+53



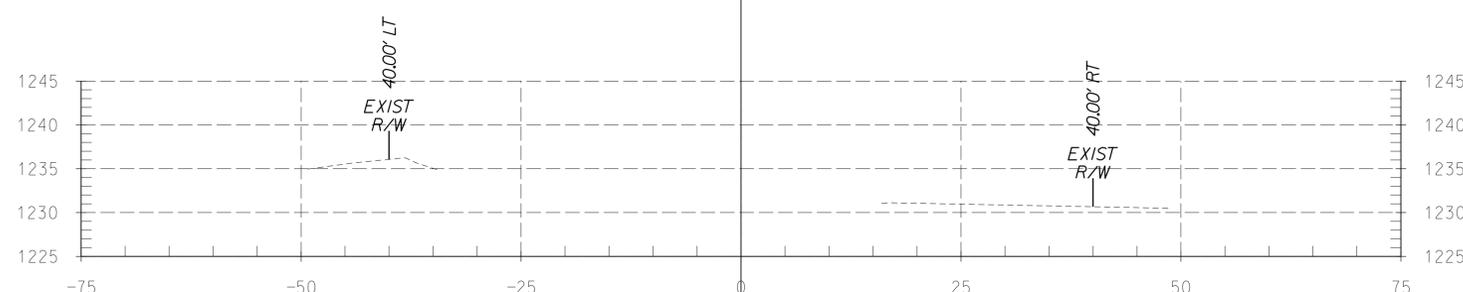
10+75



10+50



10+25



10+00

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INDEX OF SHEETS
PLEASANT VALLEY RD 1-3

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RS16-115-250	XI

PROJECT MANAGER: City of Harrisonburg, Public Works 15401.434-5928
 SURVEYED BY: Bener & Associates, 15401.434-0267
 DESIGN SUPERVISED BY: McCormick Taylor, Inc. 15401.248-0436
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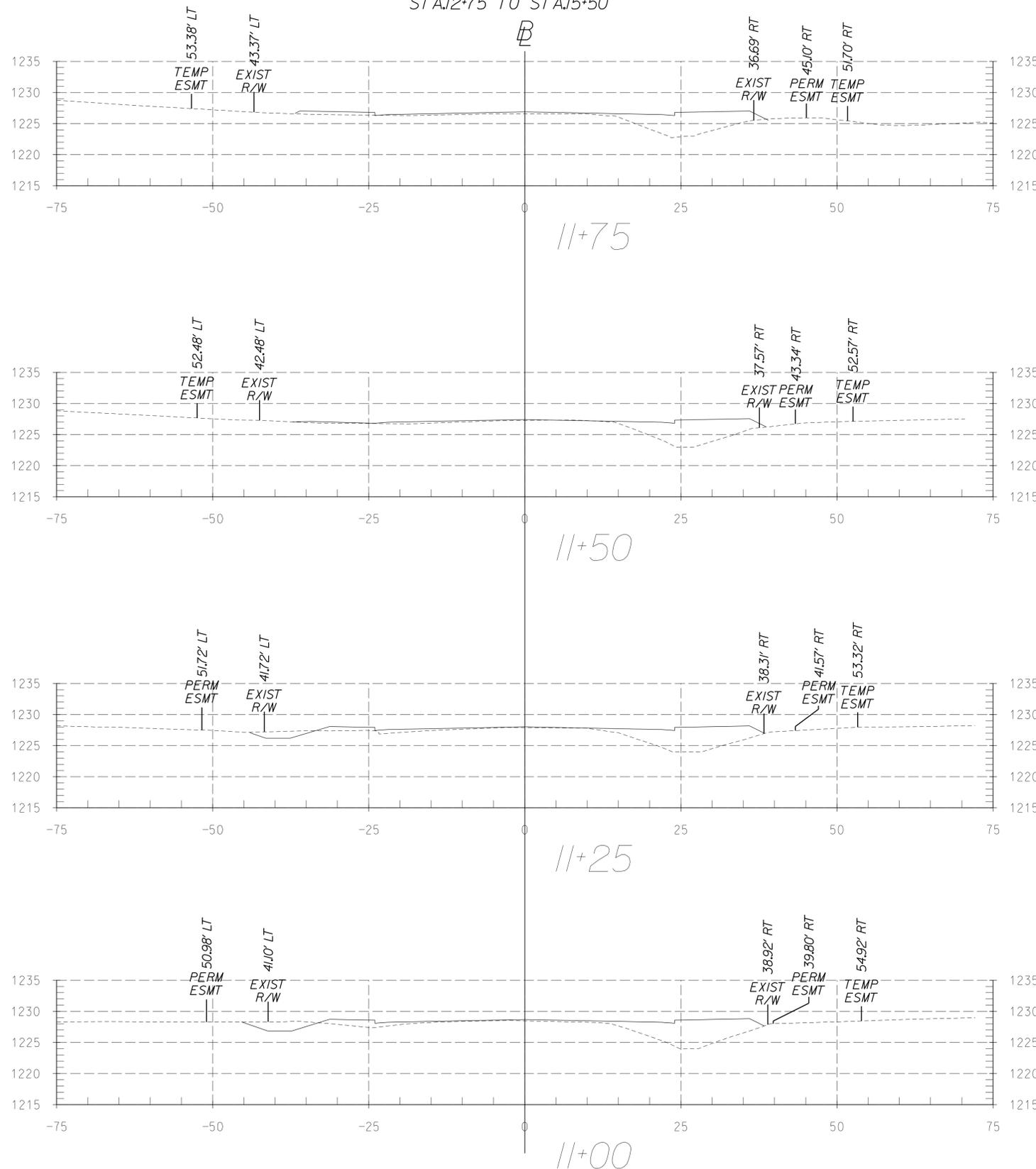
CROSS SECTIONS

STA 12+75 TO STA 15+50

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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.		VDOT# RS16-115-250	X2

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111 Mill Place Parkway
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PROJECT	SHEET NO.
RS16-115-250	X2

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 SURVEYED BY: Bencor & Associates, (540) 434-0267
 DESIGN SUPERVISED BY: McCormick Taylor, Inc. (540) 248-0436
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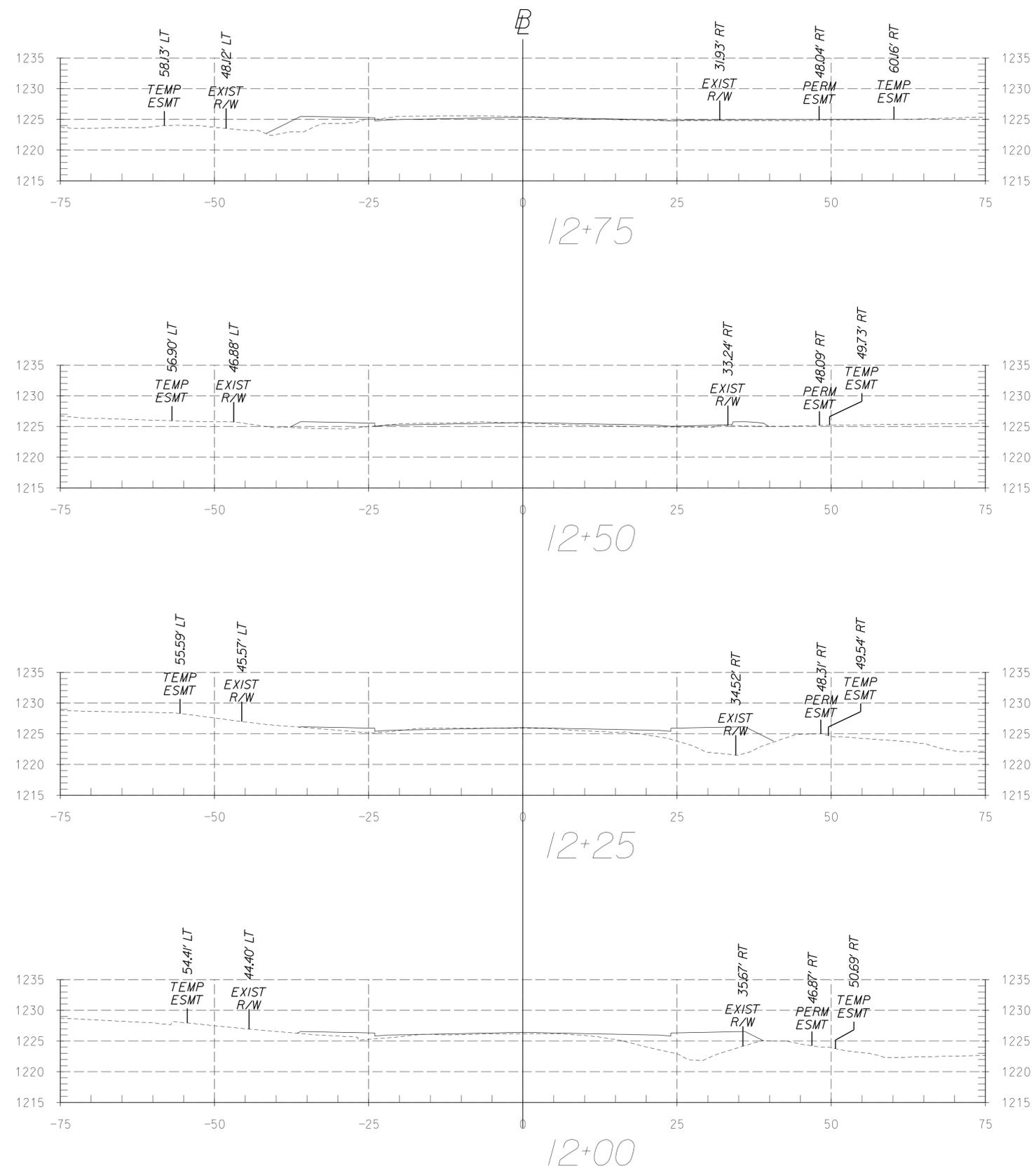
CROSS SECTIONS

STA 15+75 TO STA 17+84

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		VDOT # RS16-115-250	X3

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PROJECT	SHEET NO.
RS16-115-250	X3

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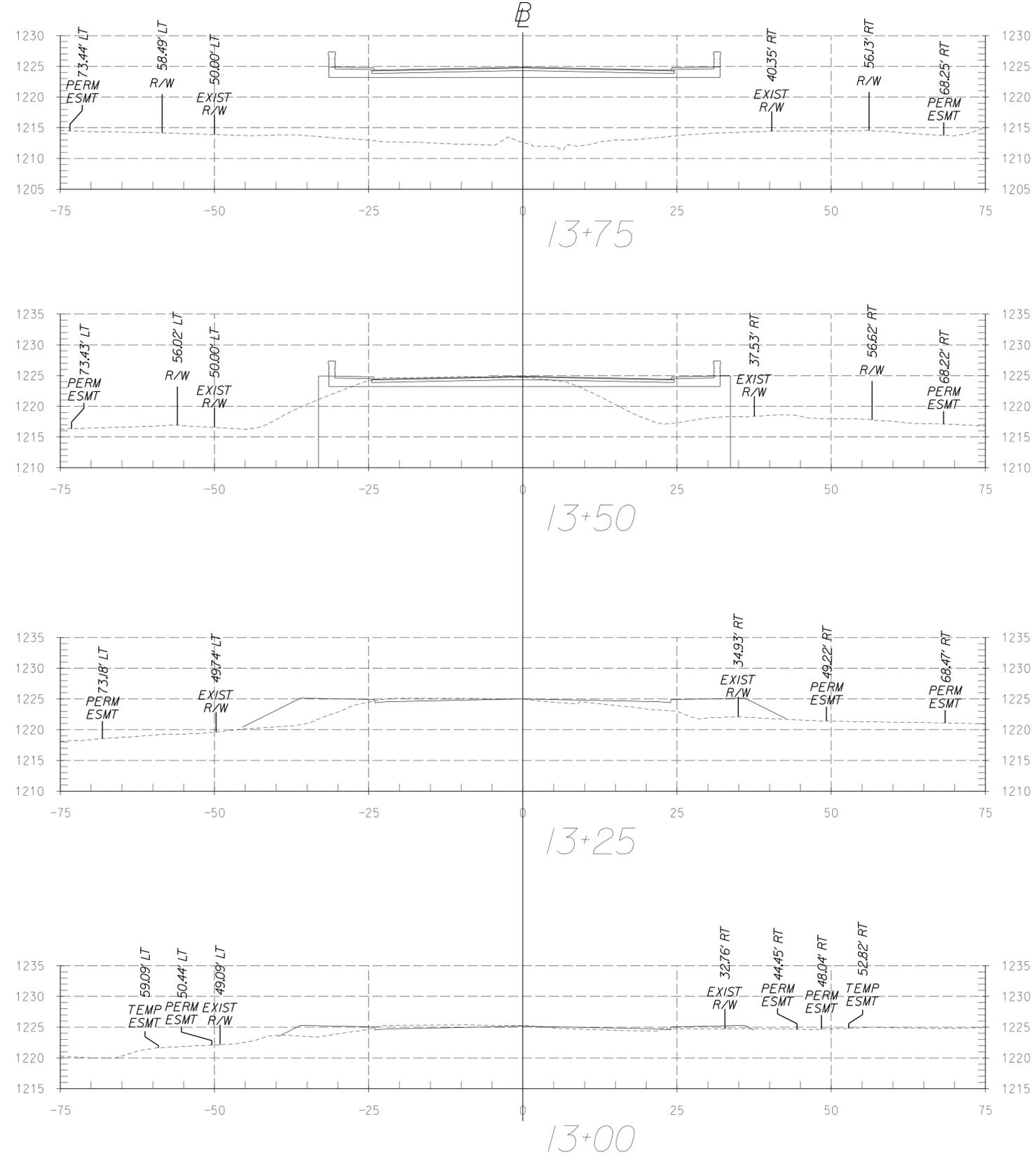
CROSS SECTIONS

STA 15+75 TO STA 17+84

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		VDOT # RS16-115-250	X4

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PROJECT	SHEET NO.
RS16-115-250	X4

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 SURVEYED BY: Bencor & Associates, 15401.434-0267
 DESIGN SUPERVISED BY: McCormick Taylor, Inc. 15401.248-0436
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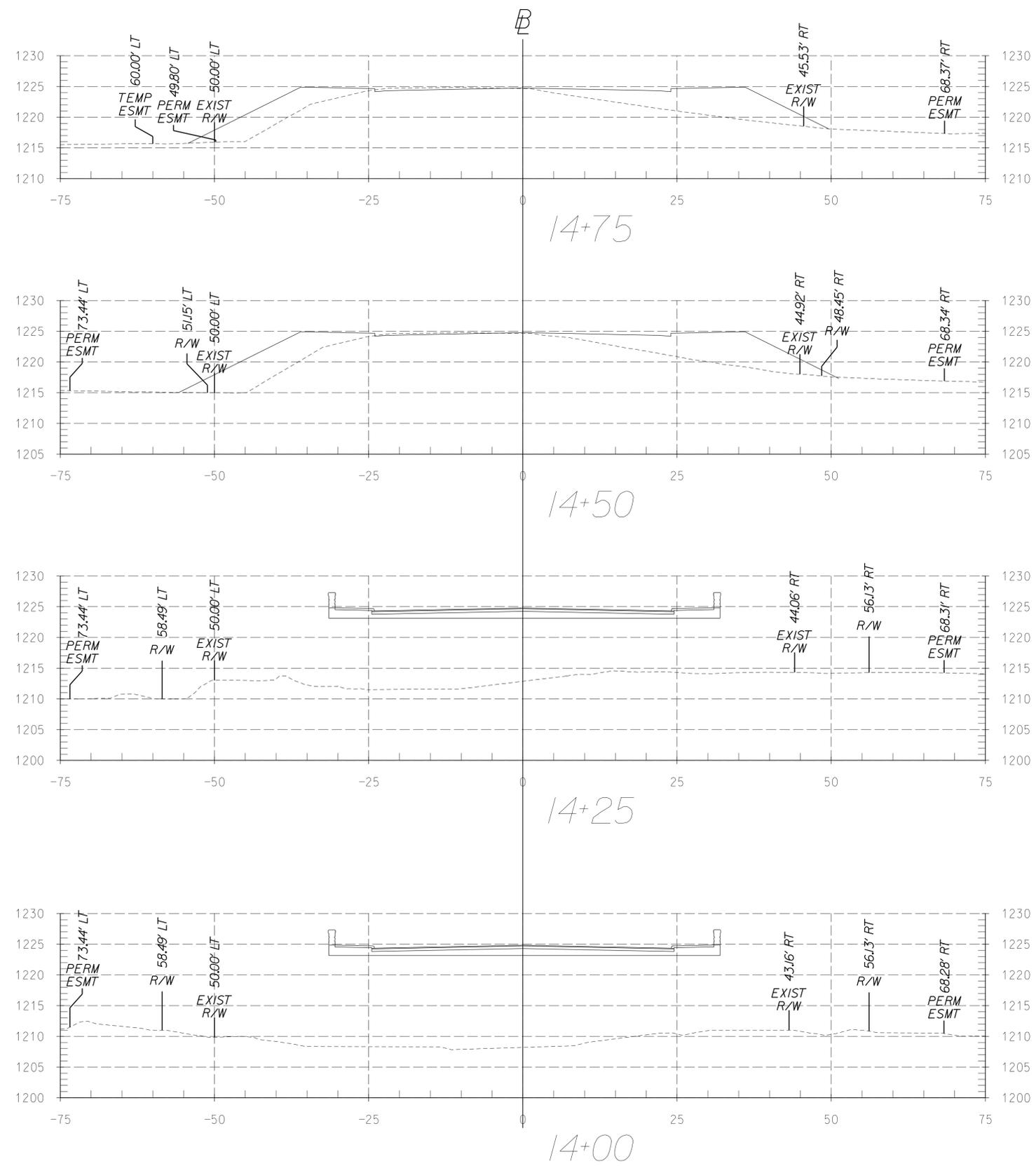
CROSS SECTIONS

STA 15+75 TO STA 17+84

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		VDOT# RS16-115-250	X5

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PROJECT	SHEET NO.
RS16-115-250	X5

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 DESIGN SUPERVISED BY: McCormick Taylor, Inc. (540) 248-0436
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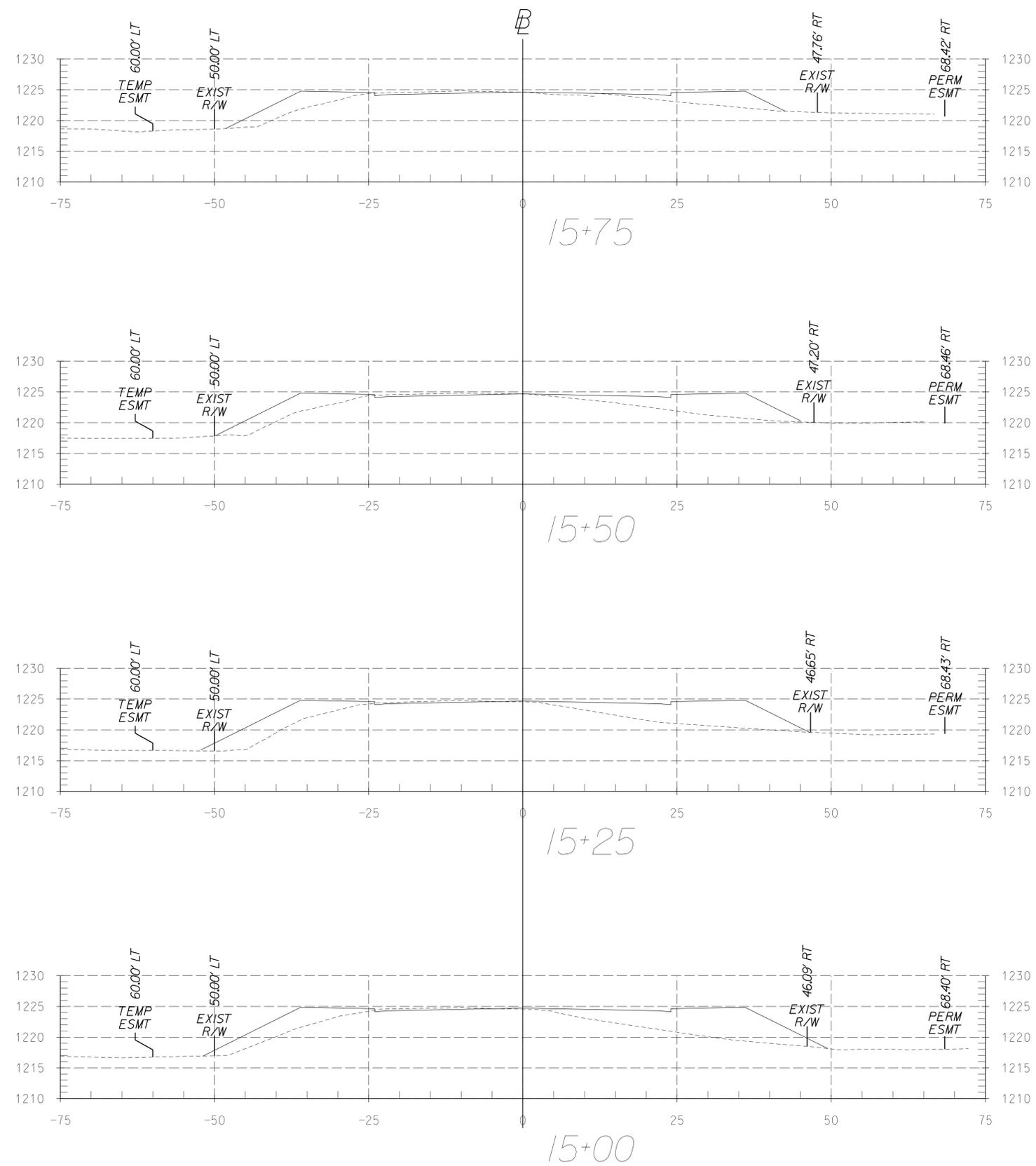
CROSS SECTIONS

STA 15+75 TO STA 17+84

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.		VDOT# RS16-115-250	X6

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McCORMICK TAYLOR
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PROJECT	SHEET NO.
RS16-115-250	6

PROJECT MANAGER: City of Harrisonburg, Public Works (540) 434-5928
 SURVEYED BY: Benner & Associates (540) 434-0267
 DESIGN SUPERVISED BY: McCormick Taylor, Inc. (540) 248-0436
 SUBSURFACE UTILITY BY DATE: Miss. Utility, February 2, 2015

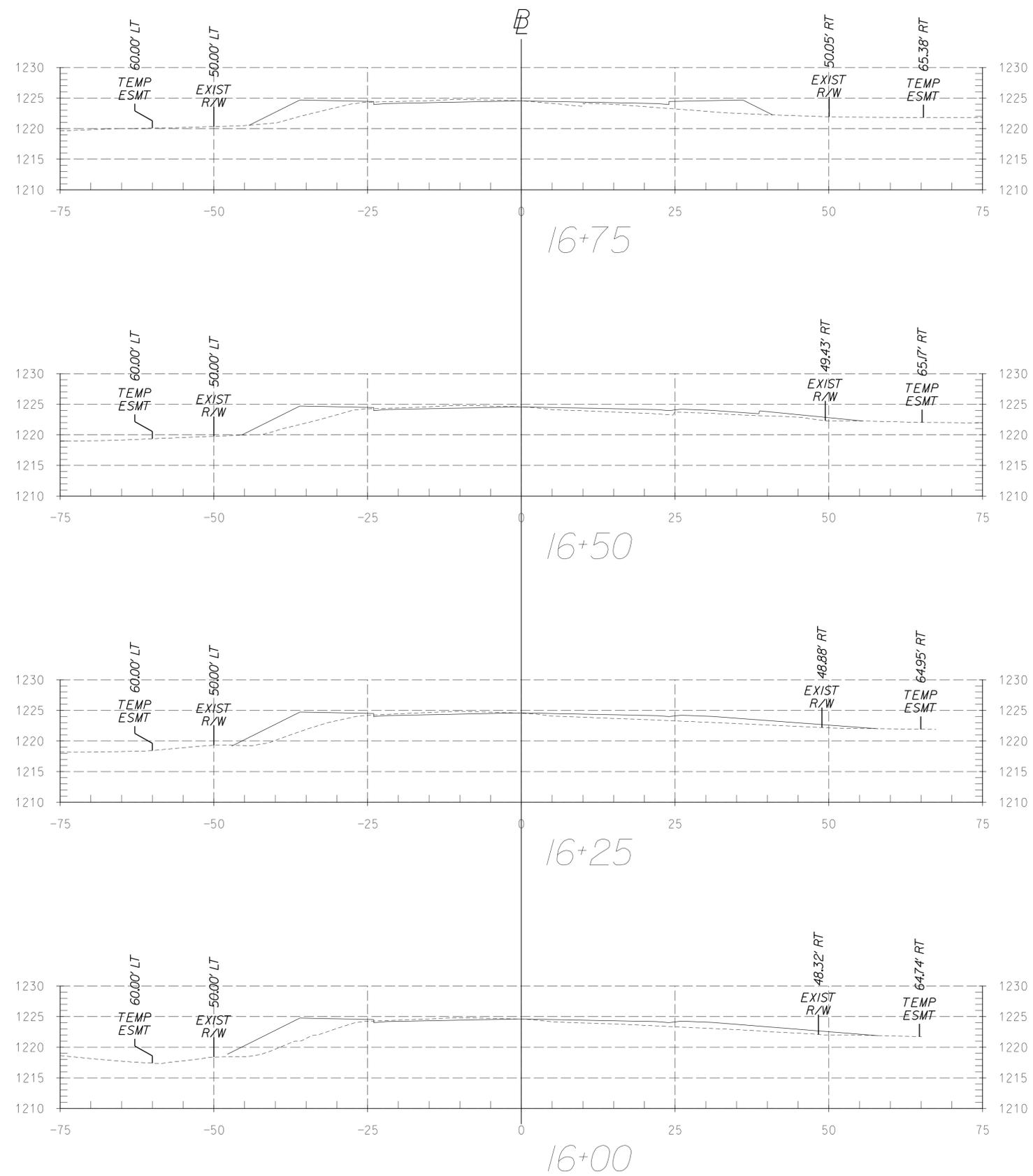
CROSS SECTIONS

STA 15+75 TO STA 17+84

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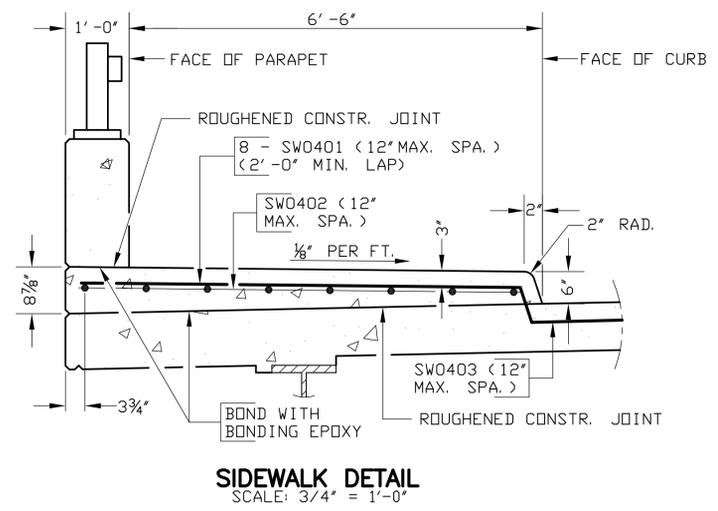
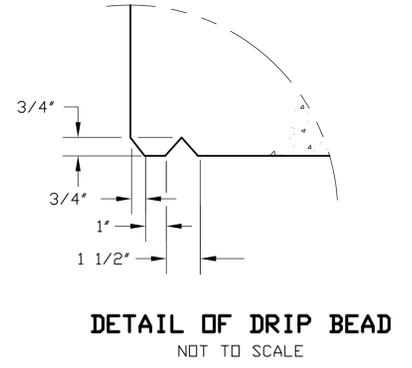
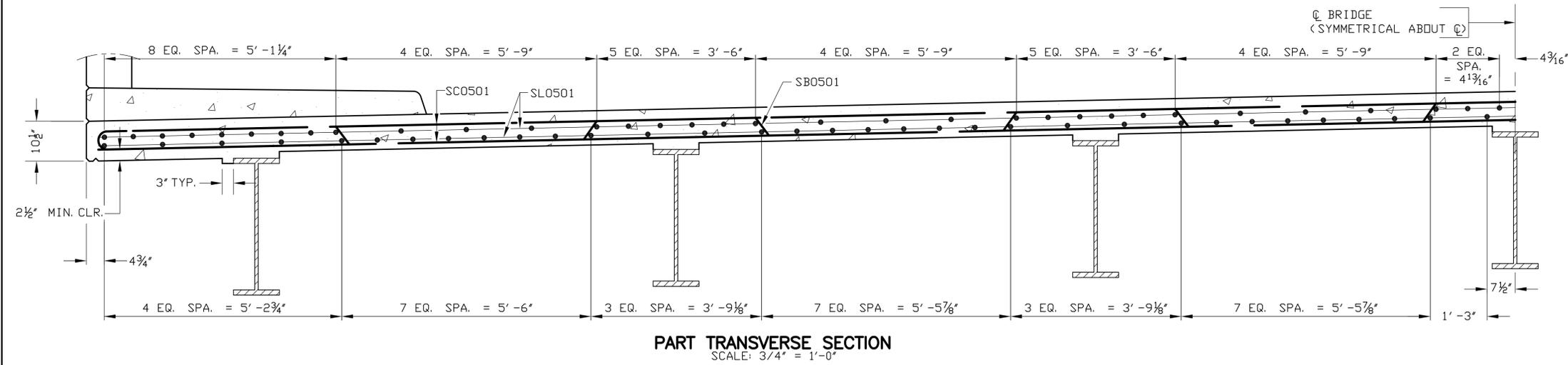
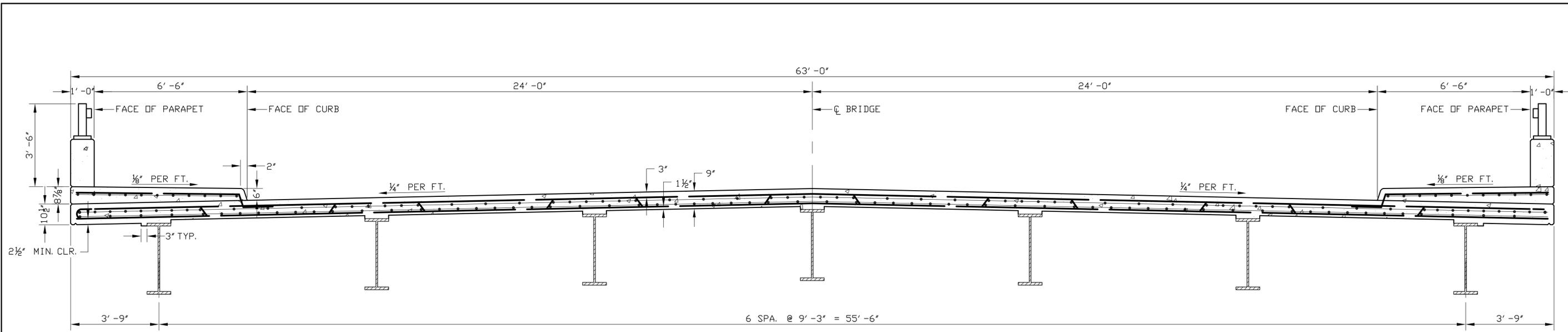
REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.		VDOT# RS16-115-250	X7

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



111 Mill Place Parkway
 Unit 105
 Verona, Virginia 24482
 (540) 248-0382

PROJECT	SHEET NO.
RS16-115-250	X7



CADD REFERENCE NO.: 14043.DWG

SCHWARTZ & ASSOCIATES, INC. CONSULTING ENGINEERS 7331 TIMBERLAKE ROAD LYNCHBURG, VA.		
PLEASANT VALLEY ROAD OVER BLACKS RUN TRANSVERSE SECTION		
DESIGNED BY: RES	DRAWN BY: RES	CHECKED BY: RWS
SCALE: AS NOTED	PROJECT NO.:	
DATE: ????????????	SHEET: ?? OF ??	
COMM. NO. 14043		