

FOR INDEX OF SHEETS SEE SHEET 1B



THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (OPENROADS/GEOPAK). GEOPAK Computer Identification No. 110887

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

FHWA 534 DATA: 33104

Table with columns: STATE, FEDERAL AID PROJECT, ROUTE, STATE PROJECT, SHEET NO. Values: VA., 220, 0220-962-050

PH PLANS MARCH 2021

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

ROANOKE COUNTY

US ROUTE 220 - VARIOUS INTERSECTIONS FROM: CLEARBROOK VILLAGE LANE INTERSECTION TO: ROUTE 862 (VALLEY AVENUE) INTERSECTION

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA table with columns: Fr, To, ADT, DHV, D (design hour), T (design hour), V (MPH). Includes note: SEE ROADWAY SHEET No. 1A FOR FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA

PROJECT MANAGER - Brett Elledge, P.E. (540) 375-3560 (Salem District) SURVEYED BY, DATE H&B Surveying (804) 330-3781 DESIGN BY Rummel, Klapper, & Kahl (804) 782-1903 SUBSURFACE UTILITY BY, DATE

CONVENTIONAL SIGNS

Legend for conventional signs showing symbols for 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.

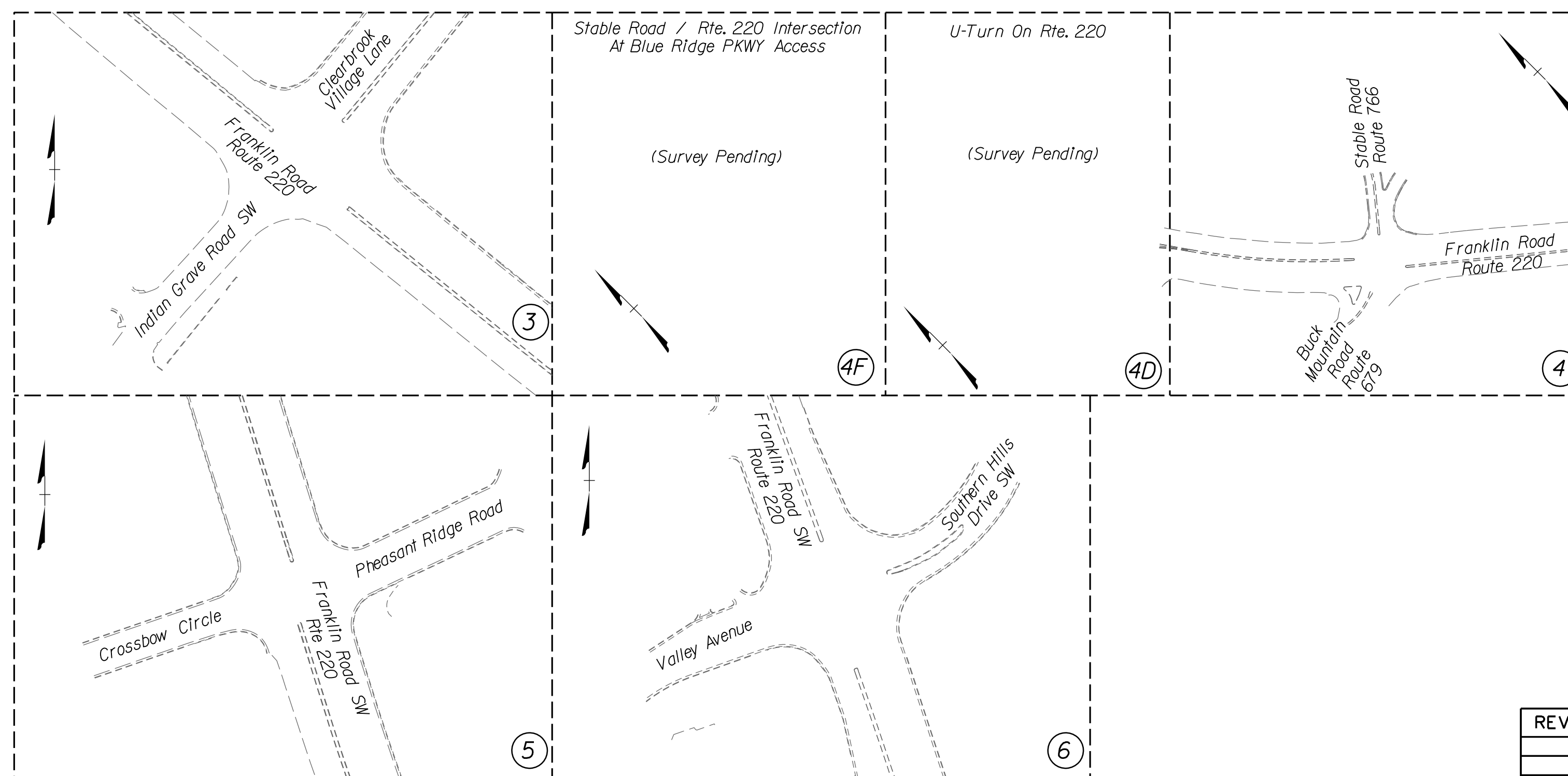
THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, HAS BEEN SEALED AND SIGNED USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. 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 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL (REV. 2) 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-5.11, 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.



County of Roanoke Population 92,740 (2011 Census) N.T.S.

Table with columns: STATE PROJECT NO., SECTION, FEDERAL AID PROJECT NO., TYPE CODE, UPC NO., EQUALITIES (FEET, MILES), LENGTH INCLUDING BRIDGE(S) (FEET, MILES), LENGTH EXCLUDING BRIDGE(S) (FEET, MILES), BRIDGE PROJECT NO., TYPE PROJECT, DESCRIPTION. Rows include PE-101, RW-201, and M-501.

Project Lengths are based on US 220 Construction Baselines.

TIER 1 PROJECT RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION table with columns: DATE, DISTRICT PLANNING AND INVESTMENT MANAGER, DISTRICT PROJECT DEVELOPMENT ENGINEER, DISTRICT ENGINEER/ADMINISTRATOR.

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION table with columns: DATE, DISTRICT PLANNING AND INVESTMENT MANAGER, DISTRICT PROJECT DEVELOPMENT ENGINEER, DISTRICT ENGINEER/ADMINISTRATOR.

Copyright 2020, Commonwealth of Virginia

PROJECT MANAGER *Brett E. Hedges, P.E. (540) 375-3580 (Salem District)*  
 SURVEYED BY, DATE *H&B Surveying (804) 330-3781*  
 DESIGN BY *Burton Klepper & Kahl, L.L.P. (804) 782-1903*  
 SUBSURFACE UTILITY BY, DATE *sSurveyor Name (000) 000-0000 (District)*

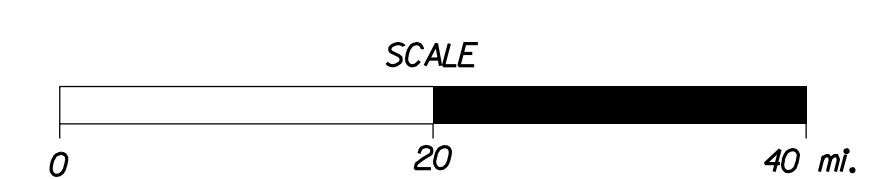
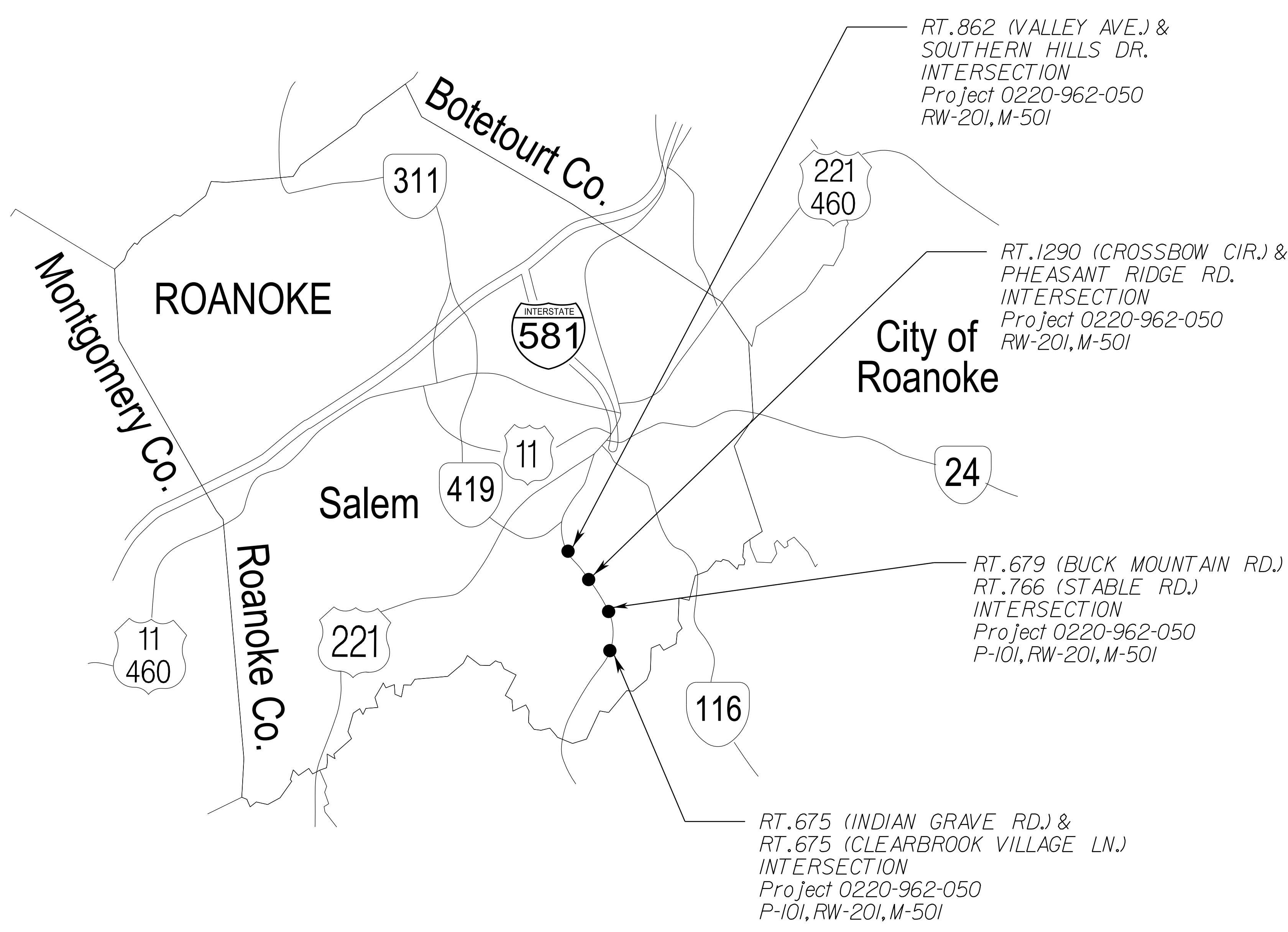
# LOCATION MAP

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	220	0220 - 962 - 050 RW-201, M-501	1A

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



SHEET NO.	DESCRIPTION
1	TITLE SHEET
1A	LOCATION MAP & INDEX OF SHEETS
1C	RIGHT OF WAY DATA SHEET
1D	REVISION DATA SHEET
1E(1)-1E(2)	SURVEY ALIGNMENT DATA SHEET
1F(1)-1F(2)	CONSTRUCTION ALIGNMENT DATA SHEET
* 1G	UNDERGROUND UTILITY TEST HOLE INFORMATION
1H(1)-1H(4)	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
1J	TRANSPORTATION MANAGEMENT PLAN
1K(1)-1K(3)	SOC AND TTC NOTES & TYPICALS
2	GENERAL NOTES
2A(1)	CLEARBROOK VILLAGE LANE TYPICAL SECTION
2A(2)	INDIAN GRAVE ROAD SW TYPICAL SECTION
2A(3)	BUCK MOUNTAIN ROAD & STABLE ROAD TYPICAL SECTION
2A(4)	BUCK MOUNTAIN TURN & STABLE ROAD (NORTH) TYPICAL SECTION
2A(5)	PHEASANT RIDGE ROAD TYPICAL SECTION
2A(6)	CROSSBOW CIRCLE TYPICAL SECTION
2A(7)	SOUTHERN HILLS DRIVE TYPICAL SECTION
2A(8)	VALLEY AVENUE TYPICAL SECTION
* 2B(1)-2B(6)	MEDIAN & CURB RADIAL DETAILS
* 2C(1)-2C(4B)	CURB RAMP & MEDIAN STAKEOUT DETAILS
* 2D	PAVEMENT, INCIDENTAL AND MOT SUMMARY
* 2E	DRAINAGE SUMMARY
3	INTERSECTION PLAN - US 220 AT CLEARBROOK VILLAGE LANE
3B	E&S CONTROL PLAN - US 220 AT CLEARBROOK VILLAGE LANE
3C	STORM SEWER PROFILE SHEET - US 220 AT CLEARBROOK VILLAGE LANE
4	INTERSECTION PLAN - US 220 AT BUCK MOUNTAIN ROAD
4B	E&S CONTROL PLAN - US 220 AT BUCK MOUNTAIN ROAD
4C	STORM SEWER PROFILE SHEET - US 220 AT BUCK MOUNTAIN ROAD
4D	INTERSECTION PLAN - BUCK MOUNTAIN - TURN
4E	E&S CONTROL PLAN - BUCK MOUNTAIN - TURN
4F	INTERSECTION PLAN - STABLE ROAD (NORTH)
4G	E&S CONTROL PLAN - STABLE ROAD (NORTH)
5	INTERSECTION PLAN - US 220 AND PHEASANT RIDGE ROAD
5B	E&S CONTROL PLAN - US 220 AND PHEASANT RIDGE ROAD
6	INTERSECTION PLAN - US 220 AND SOUTHERN HILLS DRIVE/VALLEY AVENUE
6B	E&S CONTROL PLAN - US 220 AND SOUTHERN HILLS DRIVE/VALLEY AVENUE
* 7(1)-7(6)	SIGNING AND PAVEMENT MARKING PLANS
* 8(1)-8(6)	SIGNAL PLANS
* NOT INCLUDED WITH SUBMITTAL PACKAGE	



ROUTE	US 220 VALLEY AVE./ SOUTHERN HILLS DR.	US 220 CROSSBOW CIR./ PHEASANT RIDGE RD.	US 220 BUCK MOUNTAIN RD.& STABLE RD.	US 220 INDIAN GRAVE RD.& CLEARBROOK VILLAGE LN.
FUNCTIONAL CLASSIFICATION	RURAL PRINCIPAL ARTERIAL (OTHER)	RURAL PRINCIPAL ARTERIAL (OTHER)	RURAL PRINCIPAL ARTERIAL (OTHER)	RURAL PRINCIPAL ARTERIAL (OTHER)
MIN. DESIGN SPEED	45	45	45	45
ADT (2019)	32,000	32,000	28,000	28,000
ADT (2040)	36,000	36,000	32,000	32,000
DHV	3,600	3,600	3,200	3,200
D (%) (design hour)	58%	58%	60%	60%
T (%) (design hour)	6%	6%	8%	8%
V (MPH)	45	45	45	45
TC STD.	TC-5JI	TC-5JI	TC-5JI	TC-5JI
GEOMETRIC STD.	GS-1	GS-1	GS-1	GS-1

PH PLANS  
MARCH 2021

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

PROJECT	0220-962-050	SHEET NO.	1A
---------	--------------	-----------	----

PROJECT MANAGER Brett E. Hedge, P.E. (540) 375-3580 (Salem, District)  
SURVEYED BY, DATE H&B Surveying (804) 330-3781  
DESIGN BY Burrell Klepper & Kahl, L.L.C. (804) 782-1903  
SUBSURFACE UTILITY BY, DATE sSurveyor Name (0000) 0000-0000 (01/str/cd)

# CLEARBROOK VILLAGE LANE

REVISED	STATE	ROUTE	STATE		SHEET NO.
			PROJECT		
	VA.	220	0220 - 962 - 050	RW-201, M-501	3

**J. MILTON MILLER**  
DB 1335 PG 725  
Inst.\* 200307643  
1.138 AC.  
PARCEL ID\* 098.01-01-75.00-0000

**COUNTY SCHOOL BOARD OF ROANOKE COUNTY**  
DB 1312 PG 1120  
DB 1193 PG 667  
0.811 AC.  
PARCEL ID\* 098.01-01-75.01-0000

Curve IGI  
PI - 81+46.40  
DELTA - 7° 33' 23.82" (RT)  
D - 28' 38" 52"  
T - 27' 2"  
L - 5.43'  
R - 200.00'  
PC - 81+43.69  
PT - 81+49.12  
e - EXISTING  
v - EXISTING

End Construction Indian Grave Road SW  
Station 81+85.76

Begin Construction Indian Grave Rd SW  
STA 80+30.88

POT 602+87.85

**WAL-MART REAL ESTATE BUSINESS TRUST**  
Inst.\* 200911241  
Inst.\* 20131133(PLAT)  
1.417 AC.  
PARCEL ID\* 088.03-01-01.04-0000

**SHEPHERD PROPERTIES ROANOKE, LLC**  
Inst.\* 201310137  
Inst.\* 201409828  
5.583 AC.  
PARCEL ID\* 098.02-02-01.00-0000

Begin Project 0220-962-050  
PE-101, RW-201, M-501  
Rte. 220 Construction @  
Station 599+69.74

**CB OFFICE, LLC**  
Inst.\* 201408764  
Inst.\* 200305656  
0.713 AC.  
PARCEL ID\* 098.02-02-01.01-0000

**JOAN M. RESK**  
Inst.\* 200313844  
DB 1566 PG 494  
Inst.\* 200313842(PLAT)  
0.908 AC.  
PARCEL ID\* 088.03-01-01.00-0000

[3-1] STA. 601+23.36 Rte. 220 Constr. @  
STA. 70+00.00 Clearbrook Village Ln. Constr. @  
Δ - 89°01'43" Rt.  
[3-2] STA. 601+40.48 Rte. 220 Constr. @  
STA. 80+00.00 Indian Grave Rd. Constr. @  
Δ - 89°29'18" Lt.

**WAL-MART REAL ESTATE BUSINESS TRUST**  
Inst.\* 201309446  
Inst.\* 20131133(PLAT)  
29.965 AC.  
PARCEL ID\* 088.03-01-09.00-0000

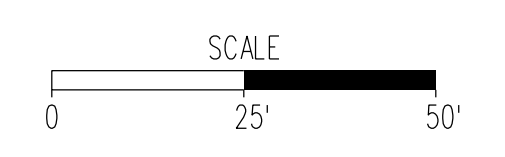
- INCIDENTAL LEGEND**
- 1 S'd. CG-2 Req'd.
  - 2 Rad. CG-2 Req'd.
  - 3 S'd. CG-6 Req'd.
  - 4 Rad. CG-6 Req'd.
  - 5 Mod. Rad. CG-7 Req'd.
  - 6 S'd. MS-1 Req'd.
  - 7 Saw Cut Full Depth Req'd.
  - 8 S'd. CG-12, Type A Req'd.
  - 9 S'd. CG-12, Type B Req'd.
  - 10 S'd. CG-12, Type R11 Req'd.
  - 11 S'd. CG-12, Type R12 Req'd.
  - 12 S'd. MS-1A Req'd.
  - 13 S'd. MC-1 Req'd.
  - 14 S'd. GR-MGS3 Req'd.
  - 15 S'd. PG-2A, Type C1 Req'd.
  - 16 S'd. GR-MGS1 Req'd.
  - 17 S'd. CG-3 Req'd.
  - 18 Rad. CG-3 Req'd.
  - 19 S'd. GR-MGS2 Req'd.
  - 20 S'd. GR-MGS4 Req'd.

- Denotes Overlaying & Buildup
- Denotes Demolition of Pavement
- Denotes Proposed Pavement

Note: Dot - dashed lines denote permanent easements  
Note: Dot - dot dashed lines denote temporary easements  
C --- Denotes Construction Limits in Cuts  
F --- Denotes Construction Limits in Fills

**REFERENCES**  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Typical Sections 2A(1)-2A(2)  
E&S Plans 3B



PH PLANS  
MARCH 2021

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

PROJECT	SHEET NO.
0220-962-050	3

PROJECT MANAGER: Brett E. Hedge, P.E. (540) 375-3580 (Salem, District)  
SURVEYED BY, DATE: H&B Surveying (804) 330-3781  
DESIGN BY: Bunnel, Klepper & Kahl, L.L.P. (804) 782-1903  
SUBSURFACE UTILITY BY, DATE: sSurveyor, Name (000) 000-0000 (01/18/18)

# BUCK MOUNTAIN ROAD

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	220	0220 - 962 - 050 RW-201, M-501	4

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

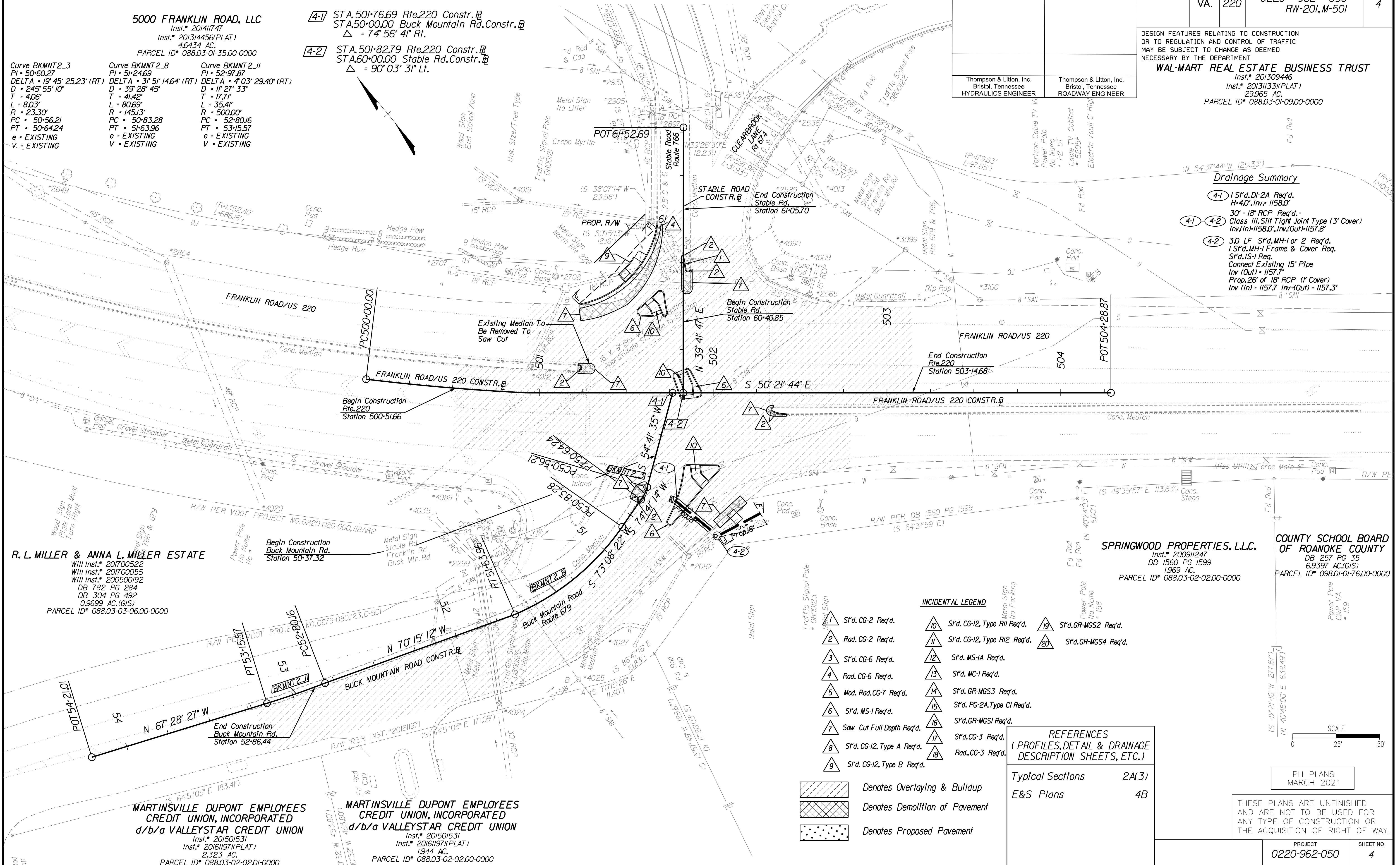
**WAL-MART REAL ESTATE BUSINESS TRUST**  
Inst.\* 201309446  
Inst.\* 201311331(PLAT)  
29,965 AC.  
PARCEL ID\* 088.03-01-09.00-0000

**5000 FRANKLIN ROAD, LLC**  
Inst.\* 201411747  
Inst.\* 201314456(PLAT)  
4,643.4 AC.  
PARCEL ID\* 088.03-01-35.00-0000

Curve BKMNT2_3 PI = 50+60.27 DELTA = 19° 45' 25.23" (RT) D = 245' 55" 10" T = 4.06' L = 80.3' R = 23.30' PC = 50+56.21 PT = 50+64.24 e = EXISTING v = EXISTING	Curve BKMNT2_8 PI = 51+24.69 DELTA = 31° 51' 14.64" (RT) D = 39' 28" 45" T = 4.142' L = 80.69' R = 145.13' PC = 50+83.28 PT = 51+63.96 e = EXISTING v = EXISTING	Curve BKMNT2_11 PI = 52+97.87 DELTA = 4° 03' 29.40" (RT) D = 11' 27" 33" T = 17.71' L = 35.41' R = 500.00' PC = 52+80.16 PT = 53+15.57 e = EXISTING v = EXISTING
--	--	--

4-1 STA. 501+76.69 Rte. 220 Constr. @  
STA. 50+00.00 Buck Mountain Rd. Constr. @  
Δ = 74° 56' 41" Rt.

4-2 STA. 501+82.79 Rte. 220 Constr. @  
STA. 60+00.00 Stable Rd. Constr. @  
Δ = 90° 03' 31" Lt.



**R. L. MILLER & ANNA L. MILLER ESTATE**  
Will Inst.\* 201700522  
Will Inst.\* 201700055  
Will Inst.\* 200500192  
DB 782 PG 284  
DB 304 PG 492  
0.9699 AC. (GIS)  
PARCEL ID\* 088.03-03-06.00-0000

Begin Construction  
Buck Mountain Rd.  
Station 30+37.32

**SPRINGWOOD PROPERTIES, LLC.**  
Inst.\* 200911247  
DB 1560 PG 1599  
1,969 AC.  
PARCEL ID\* 088.03-02-02.00-0000

**COUNTY SCHOOL BOARD OF ROANOKE COUNTY**  
DB 257 PG 35  
6,9397 AC. (GIS)  
PARCEL ID\* 098.01-01-76.00-0000

**MARTINSVILLE DUPONT EMPLOYEES CREDIT UNION, INCORPORATED**  
d/b/a VALLESTAR CREDIT UNION  
Inst.\* 201501531  
Inst.\* 201611971(PLAT)  
2,323 AC.  
PARCEL ID\* 088.03-02-02.01-0000

**MARTINSVILLE DUPONT EMPLOYEES CREDIT UNION, INCORPORATED**  
d/b/a VALLESTAR CREDIT UNION  
Inst.\* 201501531  
Inst.\* 201611971(PLAT)  
1,944 AC.  
PARCEL ID\* 088.03-02-02.00-0000

**INCIDENTAL LEGEND**

1 S'd. CG-2 Req'd.	10 S'd. CG-12, Type R11 Req'd.	19 S'd. GR-MGS2 Req'd.
2 Rad. CG-2 Req'd.	11 S'd. CG-12, Type R12 Req'd.	20 S'd. GR-MGS4 Req'd.
3 S'd. CG-6 Req'd.	12 S'd. MS-1A Req'd.	
4 Rad. CG-6 Req'd.	13 S'd. MC-1 Req'd.	
5 Mod. Rad. CG-7 Req'd.	14 S'd. GR-MGS3 Req'd.	
6 S'd. MS-1 Req'd.	15 S'd. PG-2A, Type C1 Req'd.	
7 Saw Cut Full Depth Req'd.	16 S'd. GR-MGS1 Req'd.	
8 S'd. CG-12, Type A Req'd.	17 S'd. CG-3 Req'd.	
9 S'd. CG-12, Type B Req'd.	18 Rad. CG-3 Req'd.	

Denotes Overlaying & Buildup  
Denotes Demolition of Pavement  
Denotes Proposed Pavement

**REFERENCES**  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Typical Sections 2A(3)  
E&S Plans 4B

PH PLANS  
MARCH 2021

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

PROJECT MANAGER Brett E. Hedge, P.E. (540) 375-3580 (Salem, District)  
SURVEYED BY, DATE H&B Surveying (804) 330-3781  
DESIGN BY Burnette, Klepper & Kahl, L.L.P. (804) 782-1903  
SUBSURFACE UTILITY BY, DATE, Surveyor Name (000) 000-0000 (District)

# BUCK MOUNTAIN - RTE 220 TURN

REVISED	STATE	STATE	SHEET NO.
	VA.	ROUTE 220	
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT			
Thompson & Litton, Inc. Bristol, Tennessee HYDRAULICS ENGINEER		Thompson & Litton, Inc. Bristol, Tennessee ROADWAY ENGINEER	

MATCHLINE STA. 455+68.00 SEE SHEET 4F



**INCIDENTAL LEGEND**

- |                                |                                |
|--------------------------------|--------------------------------|
| 1 S'd. CG-2 Req'd.             | 11 S'd. CG-12, Type R12 Req'd. |
| 2 Rad. CG-2 Req'd.             | 12 S'd. MS-1A Req'd.           |
| 3 S'd. CG-6 Req'd.             | 13 S'd. MC-1 Req'd.            |
| 4 Rad. CG-6 Req'd.             | 14 S'd. GR-MGS3 Req'd.         |
| 5 Mod. Rad. CG-7 Req'd.        | 15 S'd. PG-2A, Type C1 Req'd.  |
| 6 S'd. MS-1 Req'd.             | 16 S'd. GR-MGS1 Req'd.         |
| 7 Saw Cut Full Depth Req'd.    | 17 S'd. CG-3 Req'd.            |
| 8 S'd. CG-12, Type A Req'd.    | 18 Rad. CG-3 Req'd.            |
| 9 S'd. CG-12, Type B Req'd.    | 19 S'd. GR-MGS2 Req'd.         |
| 10 S'd. CG-12, Type R11 Req'd. | 20 S'd. GR-MGS4 Req'd.         |

- Denotes Overlaying & Buildup
- Denotes Demolition of Pavement
- Denotes Proposed Pavement

**REFERENCES**  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Typical Sections 2A(4)  
E&S Plans 4E

**NOTE:**  
SURVEY IS BEING OBTAINED.

SCALE 0 25' 50'

PH PLANS MARCH 2021

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

PROJECT 0220-962-050	SHEET NO. 4D
-------------------------	-----------------

PROJECT MANAGER Brett E. Hedge, P.E. (540) 375-3580 (Salem District)  
SURVEYED BY, DATE H&B Surveying (804) 330-3781  
DESIGN BY Burnette Klepper & Kahl, L.L.P. (804) 782-1903  
SUBSURFACE UTILITY BY, DATE sSurveyor Name (000) 000-0000 (District)

# STABLE ROAD (NORTH)

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	220	0220 - 962 - 050 RW-201, M-501	4F
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Thompson & Litton, Inc. Bristol, Tennessee HYDRAULICS ENGINEER		Thompson & Litton, Inc. Bristol, Tennessee ROADWAY ENGINEER		



**INCIDENTAL LEGEND**

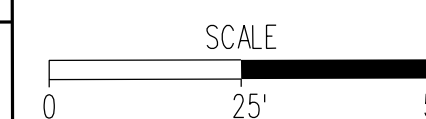
- |                                |                                |
|--------------------------------|--------------------------------|
| 1 S'd. CG-2 Req'd.             | 11 S'd. CG-12, Type R12 Req'd. |
| 2 Rad. CG-2 Req'd.             | 12 S'd. MS-1A Req'd.           |
| 3 S'd. CG-6 Req'd.             | 13 S'd. MC-1 Req'd.            |
| 4 Rad. CG-6 Req'd.             | 14 S'd. GR-MGS3 Req'd.         |
| 5 Mod. Rad. CG-7 Req'd.        | 15 S'd. PG-2A, Type C1 Req'd.  |
| 6 S'd. MS-1 Req'd.             | 16 S'd. GR-MGS1 Req'd.         |
| 7 Saw Cut Full Depth Req'd.    | 17 S'd. CG-3 Req'd.            |
| 8 S'd. CG-12, Type A Req'd.    | 18 Rad. CG-3 Req'd.            |
| 9 S'd. CG-12, Type B Req'd.    | 19 S'd. GR-MGS2 Req'd.         |
| 10 S'd. CG-12, Type R11 Req'd. | 20 S'd. GR-MGS4 Req'd.         |

- Denotes Overlaying & Buildup
- Denotes Demolition of Pavement
- Denotes Proposed Pavement

**REFERENCES**  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Typical Sections 2A(4)  
E&S Plans 4G

**NOTE:**  
SURVEY IS BEING OBTAINED.



PH PLANS  
MARCH 2021

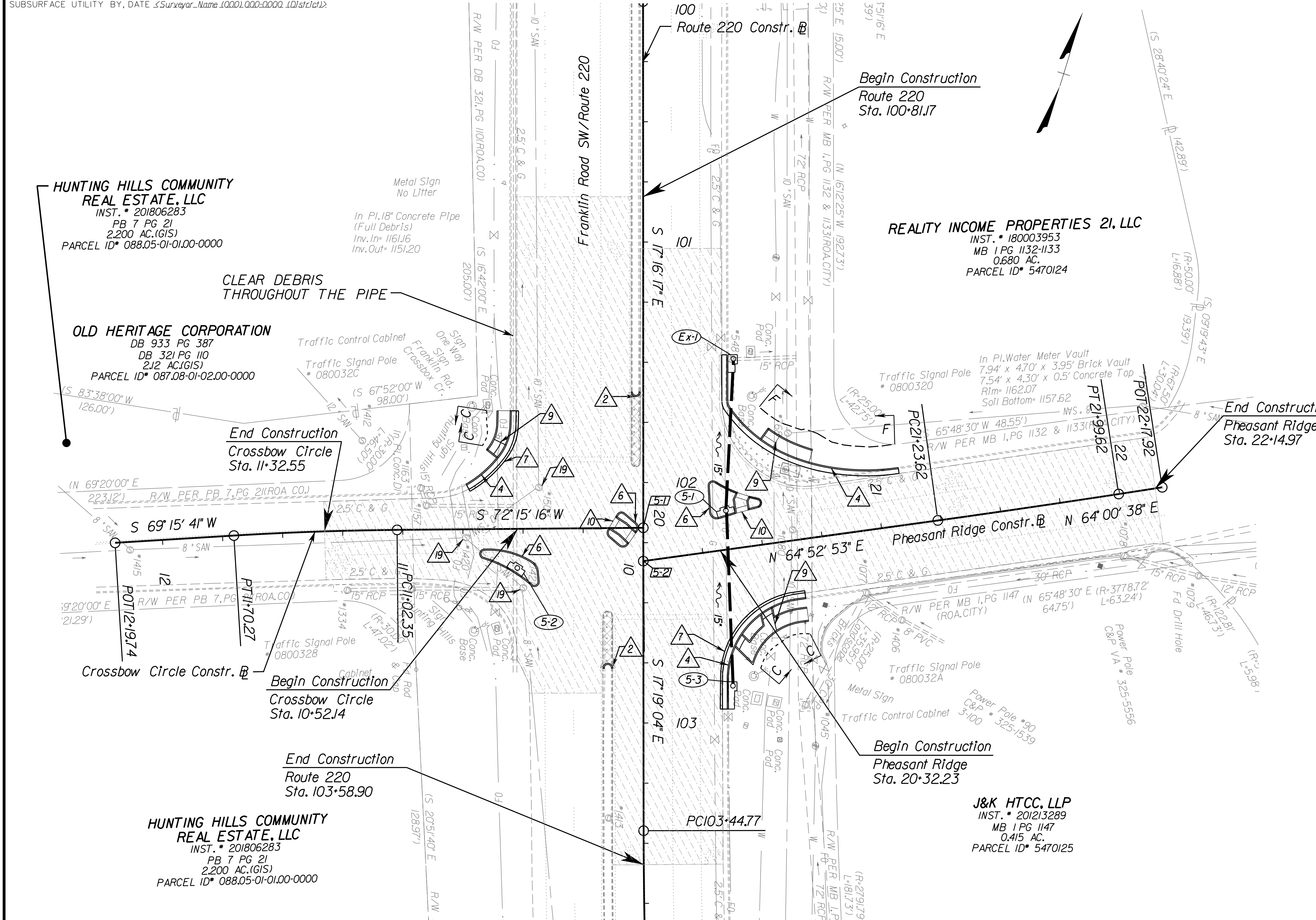
THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT 0220-962-050  
SHEET NO. 4F

MATCHLINE STA. 455+68.00 SEE SHEET 4D

PROJECT MANAGER Brett E. Hedger, P.E. (540) 375-3580 (Salem, District)  
SURVEYED BY, DATE H&B Surveying (804) 330-3781  
DESIGN BY Bummel, Klepper, & Kahl, LLP (804) 782-1903  
SUBSURFACE UTILITY BY, DATE sSurveyor\_Name (000) 000-0000 (District)

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	220	0220 - 962 - 050 RW-201, M-501	
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Rummel, Klepper, & Kahl, LLP Richmond, Virginia ROADWAY ENGINEER		Rummel, Klepper, & Kahl, LLP Richmond, Virginia HYDRAULIC ENGINEER		

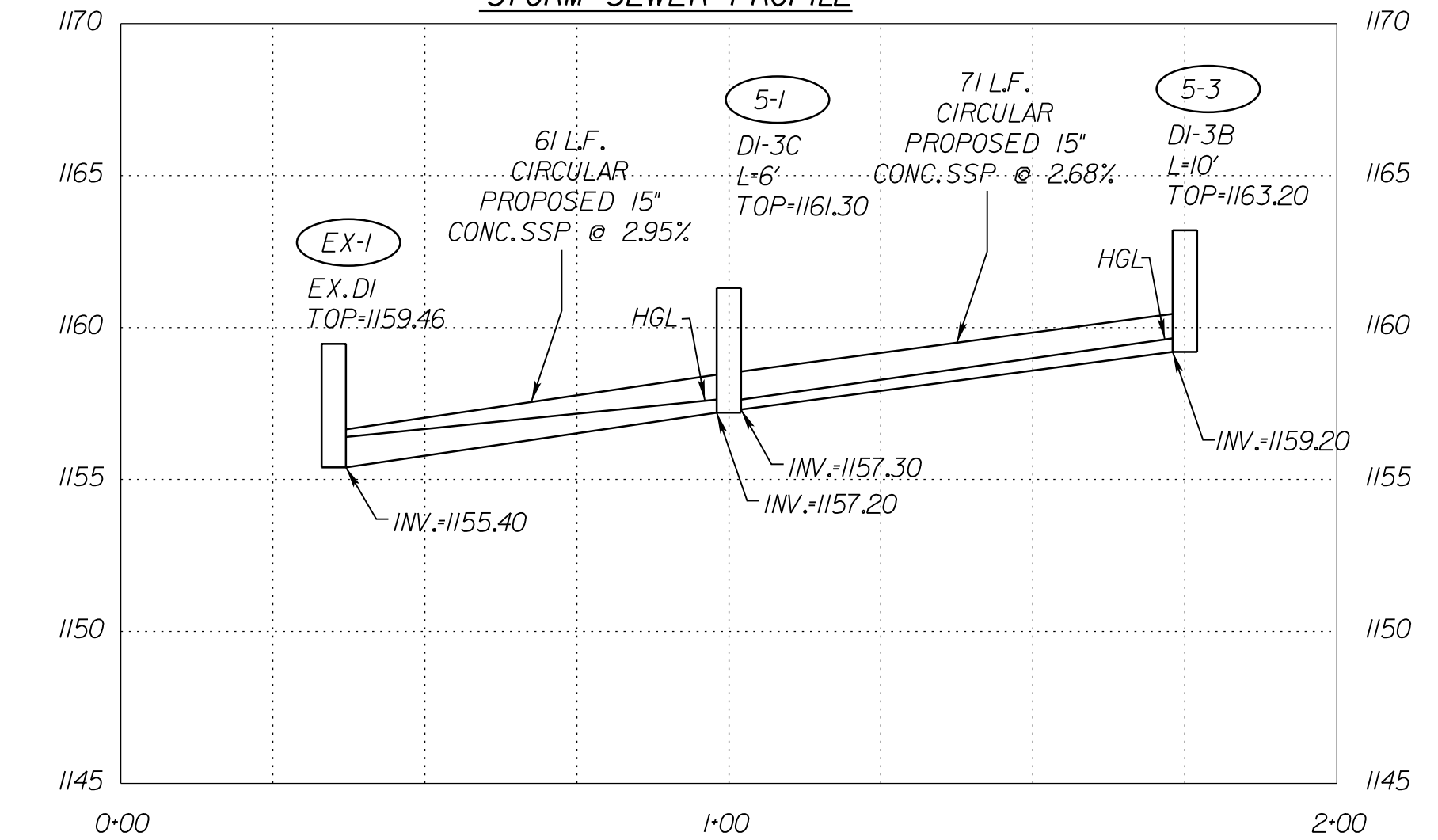


<p>Curve PH_US220_3 PI = 102+29.0 DELTA = 0° 02' 47.60" (LT) D = 0' 17' 11" T = 81.3' L = 16.25' R = 20,000.00' PC = 102+20.98 PT = 102+37.23 e = existing V = 55 MPH</p>	<p>Curve PH_US220_6 PI = 104+38.87 DELTA = 4° 53' 54.78" (LT) D = 2' 36' 16" T = 94.10' L = 188.09' R = 2,200.00' PC = 103+44.77 PT = 105+32.86 e = existing V = 55 MPH</p>	<p>Curve XBOW_CIRCLE_3 PI = 11+36.32 DELTA = 2° 59' 35.31" (LT) D = 4' 24' 27" T = 33.96' L = 67.91' R = 1,300.00' PC = 11+02.35 PT = 11+70.27 e = existing V = 25 MPH</p>	<p>Curve PHEASANT_RIDGE_3 PI = 21+61.62 DELTA = 0° 52' 15.14" (LT) D = 1' 08' 45" T = 38.00' L = 76.00' R = 5,000.00' PC = 21+23.62 PT = 21+99.62 e = existing V = 25 MPH</p>
---	---	--	---

**DRAINAGE DESCRIPTION**

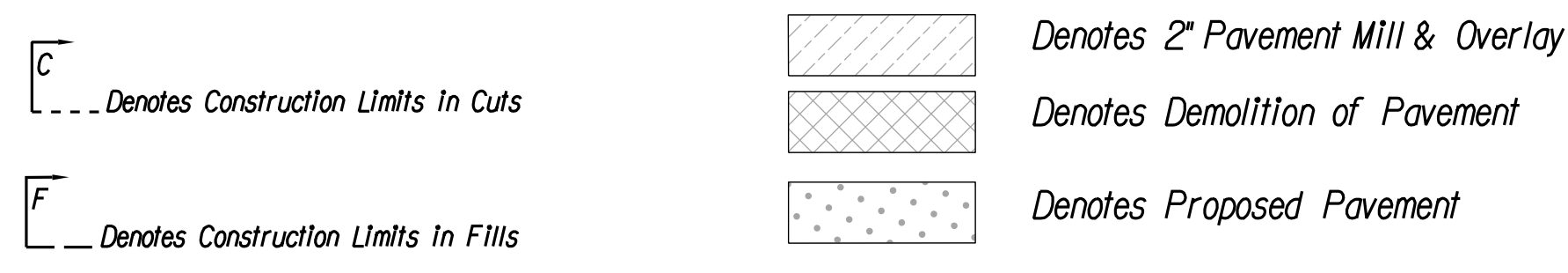
- 5-1 1 ST'D DI-3C REQ'D  
H=4.1' L=6' INV=1157.20  
ST'D IS-1 REQ'D
- 5-1 EX-1 61 LF-15" CONC. STORM SEWER PIPE CLASS III REQ'D (3' COVER)  
SILT TIGHT JOINT TYPE  
INV(IN)=1157.20 INV(OUT)=1155.40
- 5-2 1 ST'D DI-3C REQ'D  
H=3.3' L=6' INV=1159.75  
ST'D IS-1 REQ'D  
CONNECT TO EXISTING PIPE
- 5-3 1 ST'D DI-3B REQ'D  
H=4.0' L=10' INV=1159.20
- 5-3 5-1 71 LF-15" CONC. STORM SEWER PIPE CLASS III REQ'D (3' COVER)  
SILT TIGHT JOINT TYPE  
INV(IN)=1159.20 INV(OUT)=1157.30
- EX-1 MODIFY EXISTING DI-TO ACCEPT PROPOSED 15" PIPE  
REPLACE THE EXISTING DI TOP WITH DI-3B L-6' PRE CAST TOP UNIT  
MAINTAIN EXISTING PIPE CONNECTION AND INVERTS

**STORM SEWER PROFILE**



**INCIDENTAL LEGEND**

1 S'd. CG-2 Req'd.	5 Mod. Rad. CG-7 Req'd.	9 S'd. CG-12, Type B Req'd.	13 S'd. MC-1 Req'd.	17 S'd. CG-3 Req'd.
2 Rad. CG-2 Req'd.	6 S'd. MS-1 Req'd.	10 S'd. CG-12, Type R11 Req'd.	14 S'd. GR-MGS3 Req'd.	18 Rad. CG-3 Req'd.
3 S'd. CG-6 Req'd.	7 Saw Cut Full Depth Req'd.	11 S'd. CG-12, Type R12 Req'd.	15 S'd. PG-2A, Type C1 Req'd.	19 S'd. GR-MGS2 Req'd.
4 Rad. CG-6 Req'd.	8 S'd. CG-12, Type A Req'd.	12 S'd. MS-1A Req'd.	16 S'd. GR-MGS1 Req'd.	20 S'd. GR-MGS4 Req'd.



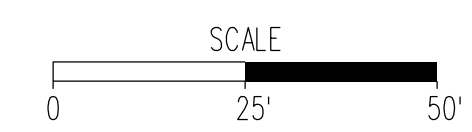
Note: Dot - dashed lines denote permanent easements  
Note: Dot - dot dashed lines denote temporary easements

**REFERENCES**  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Typical Section	2A(5) 2A(6)
Curb Details	2B(3)
Stakeout Details	2C(3A) 2C(3B)
E&S Control Plan	5B

PH PLANS  
MARCH 2021

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



PROJECT MANAGER: Brett E. Hedger, P.E. (540) 375-3580 (Salem, District)  
SURVEYED BY, DATE: H&B Surveying (804) 330-3781  
DESIGN BY: Rummel, Klepper & Kahl, LLP (804) 782-1903  
SUBSURFACE UTILITY BY, DATE: sSurveyor\_Name (000) 000-0000 (01/str/cl)

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	220	0220 - 962 - 050 RW-201, M-501	6

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

Rummel, Klepper, & Kahl, LLP  
Richmond, Virginia  
ROADWAY ENGINEER

Rummel, Klepper, & Kahl, LLP  
Richmond, Virginia  
HYDRAULIC ENGINEER

**003**

**SILK PURSE PROPERTIES-ROANOKE, LLC**  
Inst. # 180008391  
MB 1 PG 3012-3016  
0.555 AC.  
PARCEL ID # 5480718

**002**

**FIRST NATIONAL EXCHANGE BANK**  
DB 1634 PG 813  
DB 1626 PG 1978  
0.960 AC.  
PARCEL ID # 077.20-01-40.00-0000

**ROYAL SKIES INVESTORS LIMITED PARTNERSHIP**  
Inst. # 070013904  
MB 1 PG 3012-3016  
10.584 AC.  
PARCEL ID # 5470104

**RED ROOF PROPERTIES, LLC**  
Inst. # 201109446  
PB 24 PG 171  
0.545 AC.  
PARCEL ID # 087.08-05-02.00-0000

**SILK PURSE PROPERTIES-ROANOKE, LLC**  
Inst. # 180008391  
MB 1 PG 3012-3016  
0.555 AC.  
PARCEL ID # 5480718

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Typical Section	2A(7) 2A(8)
Curb Details	2B(4)
Stakeout Details	2C(4A) 2C(4B)
E&S Control Plan	6B

PROJECT	0220-962-050	SHEET NO.	6
---------	--------------	-----------	---

**Curve SH\_US220\_3**  
PI • 201+98.65  
DELTA • 0° 22' 56.33" (RT)  
D • 1' 08' 45"  
T • 16.68'  
L • 33.36'  
R • 5,000.00'  
PC • 201+81.97  
PT • 202+15.34  
e • existing  
V • 55 MPH

**Curve SH\_US220\_6**  
PI • 204+06.78  
DELTA • 1° 23' 04.67" (RT)  
D • 1' 30' 28"  
T • 45.92'  
L • 91.83'  
R • 3,800.00'  
PC • 203+60.86  
PT • 204+52.69  
e • existing  
V • 55 MPH

**Curve SH\_US220\_7**  
PI • 205+16.79  
DELTA • 0° 53' 12.94" (RT)  
D • 0' 41' 31"  
T • 64.10'  
L • 128.19'  
R • 8,281.42'  
PCC • 204+52.69  
PT • 205+80.89  
e • existing  
V • 55 MPH

**Curve VALLEY\_AVE1\_3**  
PI • 40+45.00  
DELTA • 3° 17' 49.12" (LT)  
D • 5' 43' 44"  
T • 28.78'  
L • 57.55'  
R • 1,000.10'  
PC • 40+16.22  
PT • 40+73.77  
e • existing  
V • 25 MPH

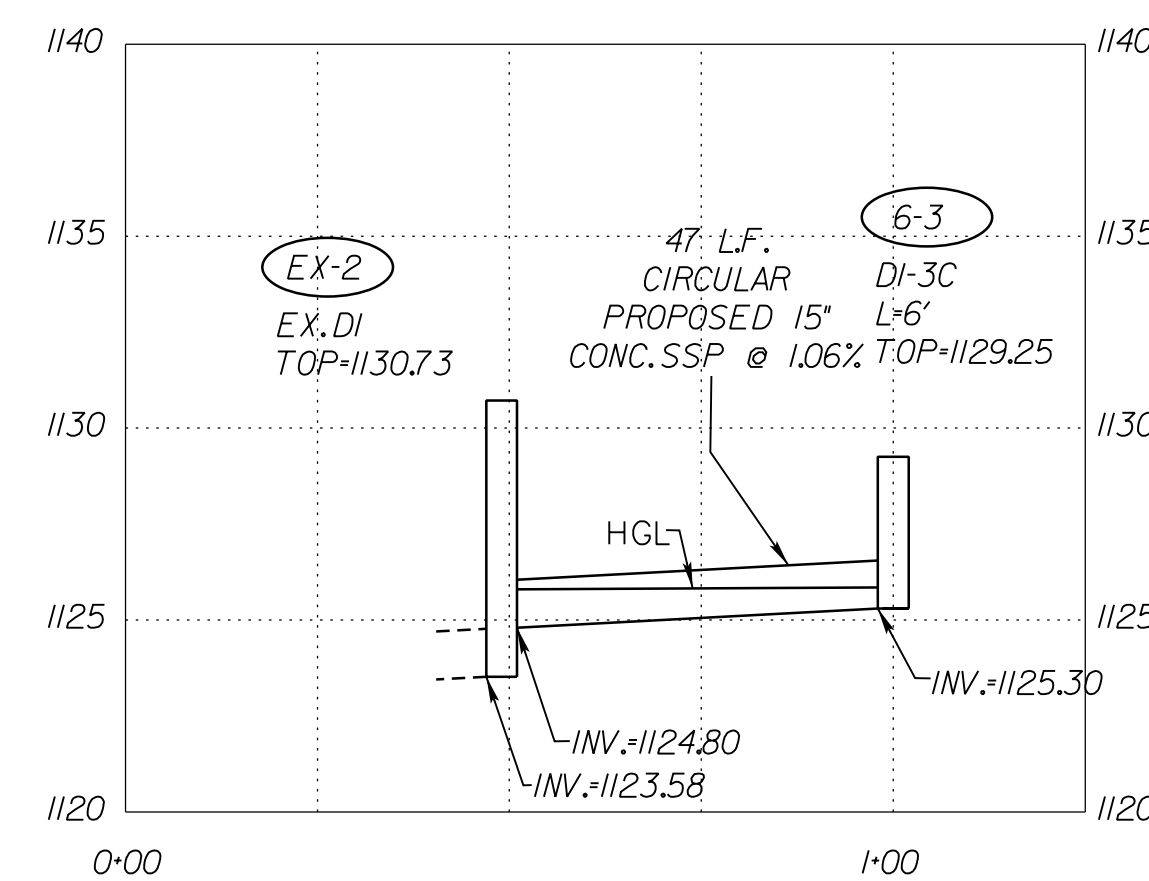
**Curve VALLEY\_AVE1\_6**  
PI • 42+06.18  
DELTA • 15° 11' 36.83" (LT)  
D • 30' 09' 20"  
T • 25.34'  
L • 50.38'  
R • 190.00'  
PC • 41+80.84  
PT • 42+31.22  
e • existing  
V • 25 MPH

**Curve SOHILL\_DRIVE\_3**  
PI • 31+30.83  
DELTA • 45° 32' 04.69" (LT)  
D • 29' 43' 36"  
T • 80.89'  
L • 153.18'  
R • 192.74'  
PC • 30+49.94  
PT • 32+03.12  
e • existing  
V • 25 MPH

**DRAINAGE DESCRIPTION**

- 6-3 1ST'D DI-3C REQ'D  
H=4.0' L=6' INV=1125.3
- EX-2 47' LF-15" CONC. STORM SEWER PIPE CLASS III REQ'D (3' COVER)  
SILT TIGHT JOINT TYPE  
INV(IN)=1125.30 INV(OUT)=1124.80
- EX-2 MODIFY EXISTING DI-  
TO ACCEPT PROPOSED 15" PIPE  
MAINTAIN EXISTING PIPE CONNECTION AND INVERTS
- 6-4 1ST'D DI-3C REQ'D  
H=5.8' L=6' INV=1124.43  
ST'D IS-1 REQ'D  
CONNECT TO EXISTING PIPE

**STORM SEWER PROFILE**



**INCIDENTAL LEGEND**

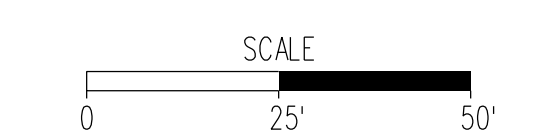
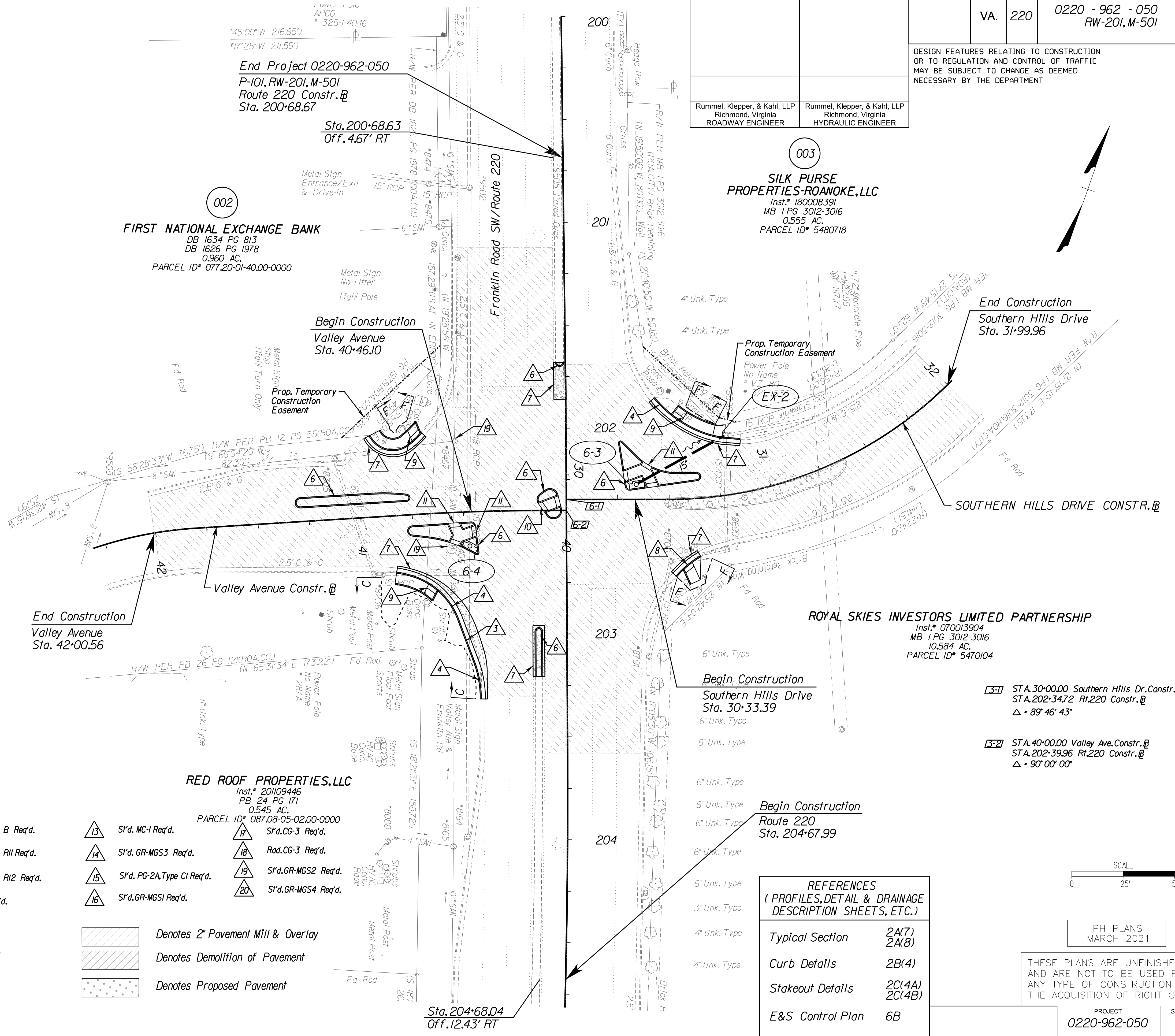
- |                    |                             |                                |
|--------------------|-----------------------------|--------------------------------|
| 1 S'd. CG-2 Req'd. | 5 Mod. Rad. CG-7 Req'd.     | 9 S'd. CG-12, Type B Req'd.    |
| 2 Rad. CG-2 Req'd. | 6 S'd. MS-1 Req'd.          | 10 S'd. CG-12, Type RII Req'd. |
| 3 S'd. CG-6 Req'd. | 7 Saw Cut Full Depth Req'd. | 11 S'd. CG-12, Type R12 Req'd. |
| 4 Rad. CG-6 Req'd. | 8 S'd. CG-12, Type A Req'd. | 12 S'd. MS-1A Req'd.           |

- |                               |                        |
|-------------------------------|------------------------|
| 13 S'd. MC-1 Req'd.           | 17 S'd. CG-3 Req'd.    |
| 14 S'd. GR-MGS3 Req'd.        | 18 Rad. CG-3 Req'd.    |
| 15 S'd. PG-2A, Type C1 Req'd. | 19 S'd. GR-MGS2 Req'd. |
| 16 S'd. GR-MGS1 Req'd.        | 20 S'd. GR-MGS4 Req'd. |

- Denotes 2" Pavement Mill & Overlay
- Denotes Demolition of Pavement
- Denotes Proposed Pavement

Note: Dot - dashed lines denote permanent easements  
Note: Dot - dot dashed lines denote temporary easements

**C** \_\_\_\_\_ Denotes Construction Limits in Cuts  
**F** \_\_\_\_\_ Denotes Construction Limits in Fills



PH PLANS  
MARCH 2021

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