

FOR INDEX OF SHEETS SEE SHEET 1B



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF TRANSPORTATION

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (OPENROADS/GEOPAK).  
GEOPAK Computer Identification No. 115455

PH PLANS  
MARCH 2021

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

FHWA 534 DATA: 44003

STATE	FEDERAL AID		STATE		SHEET NO.
	PROJECT	ROUTE	PROJECT		
VA.		220	0220 - 033 - 843 (SEE TABULATION BELOW FOR SECTION NUMBERS)		1

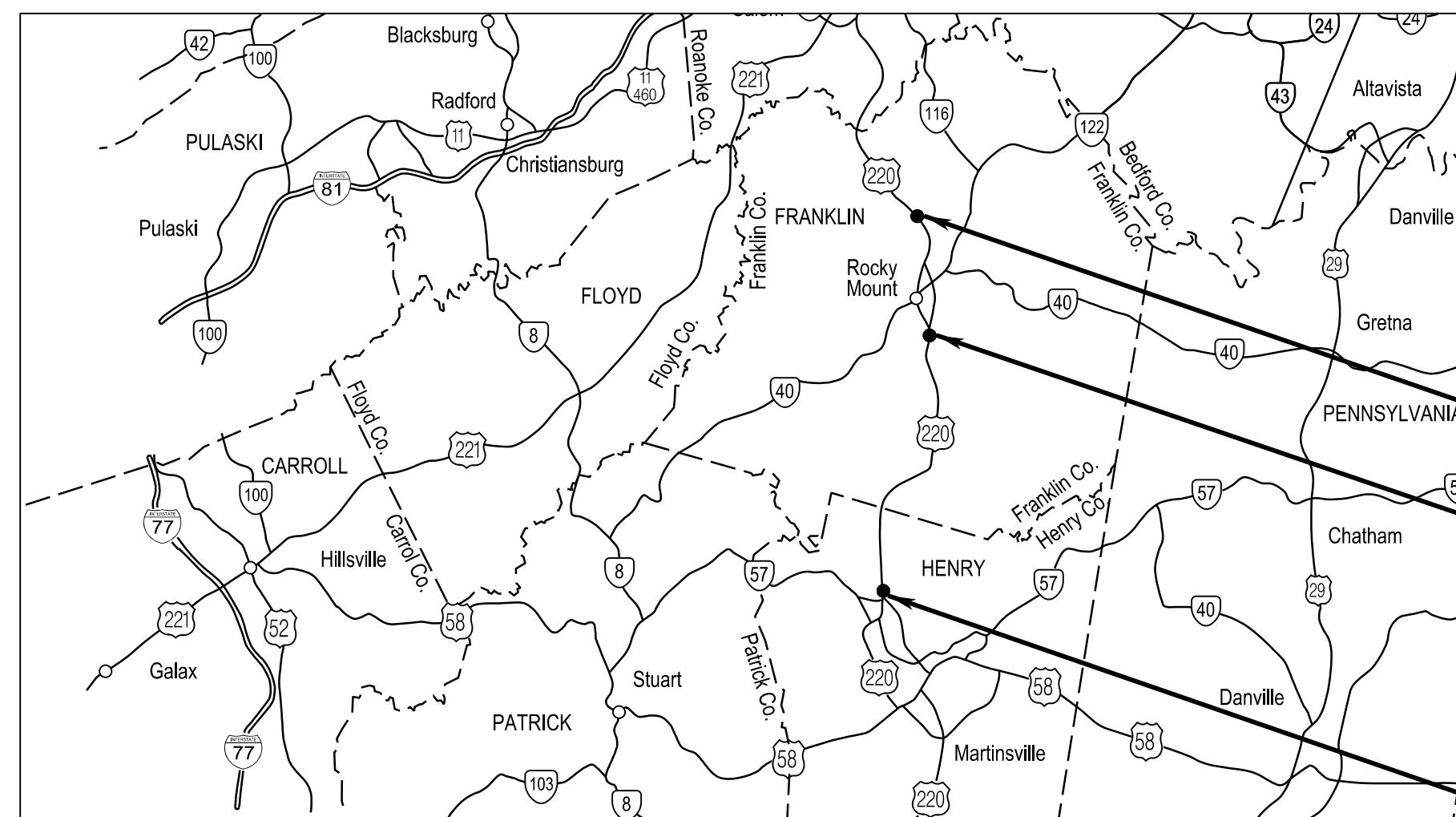
FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
Fr:	SEE ROADWAY SHEET No. 1A FOR FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA
To:	
ADT	
DHV	
D (%) (design hour)	
V (MPH)	

PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY  
FRANKLIN & HENRY COUNTIES  
US ROUTE 220 VARIOUS INTERSECTIONS AND IMPROVEMENTS  
FROM: 0.06 MILES SOUTH OF ROUTE 1209 (DYER STREET)  
TO: 0.11 MILES NORTH OF ROUTE 697 (WIRTZ ROAD)

PROJECT MANAGER: Brett Elledge, 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: Surveyor Name (000) 000-0000 (District)

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	-----



WIRTZ ROAD  
Project 0220-033-843  
PE-101, RW-201, M-501

SONTAG/CASSELL  
Project 0220-033-843  
PE-101, RW-201, M-501

BASSETT FORKS/DYER STREET  
Project 0220-033-843  
PE-101, RW-201, M-501

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

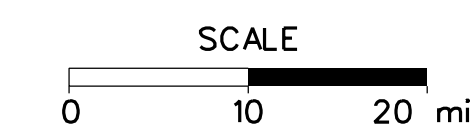
THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL (REV. 2) AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC 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.

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County of Franklin Population 56,159 (2010 Census)  
County of Henry Population 54,151 (2010 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES		LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
					FEET		FEET	MILES	FEET	MILES			
0220-033-843	PE-101	NHPP-033-2(053)	PENG	115455	--	--	--	--	--	--	--	Prelim. Engr.	US 220 AT Bassett Forks/Dyer Street
	RW-201	NHPP-033-2(053)	RW201	115455	--	--	--	--	--	--	--	Right-of-Way	
	M-501	NHPP-033-2(053)	Y008	115455	--	--	84.19	0.016	84.19	0.016	--	Construction	
	PE-101	NHPP-033-2(053)	PENG	115455	--	--	--	--	--	--	--	Prelim. Engr.	US 220 at Sontag/Cassell
	RW-201	NHPP-033-2(053)	RW201	115455	--	--	--	--	--	--	--	Right-of-Way	
	M-501	NHPP-033-2(053)	Y008	115455	--	--	1879.46	0.356	1879.46	0.356	--	Construction	
	PE-101	NHPP-033-2(053)	PENG	115455	--	--	--	--	--	--	--	Prelim. Engr.	US 220 at 697 Wirtz Road
	RW-201	NHPP-033-2(053)	RW201	115455	--	--	--	--	--	--	--	Right-of-Way	
	M-501	NHPP-033-2(053)	Y008	115455	--	--	730.10	0.138	730.10	0.138	--	Construction	



Project Lengths are based on US 220 Construction Baselines.

TIER 1 PROJECT

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION

DATE DISTRICT PLANNING AND INVESTMENT MANAGER

DATE DISTRICT PROJECT DEVELOPMENT ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION

DATE DISTRICT ENGINEER/ADMINISTRATOR

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

DATE DISTRICT PLANNING AND INVESTMENT MANAGER

DATE DISTRICT PROJECT DEVELOPMENT ENGINEER

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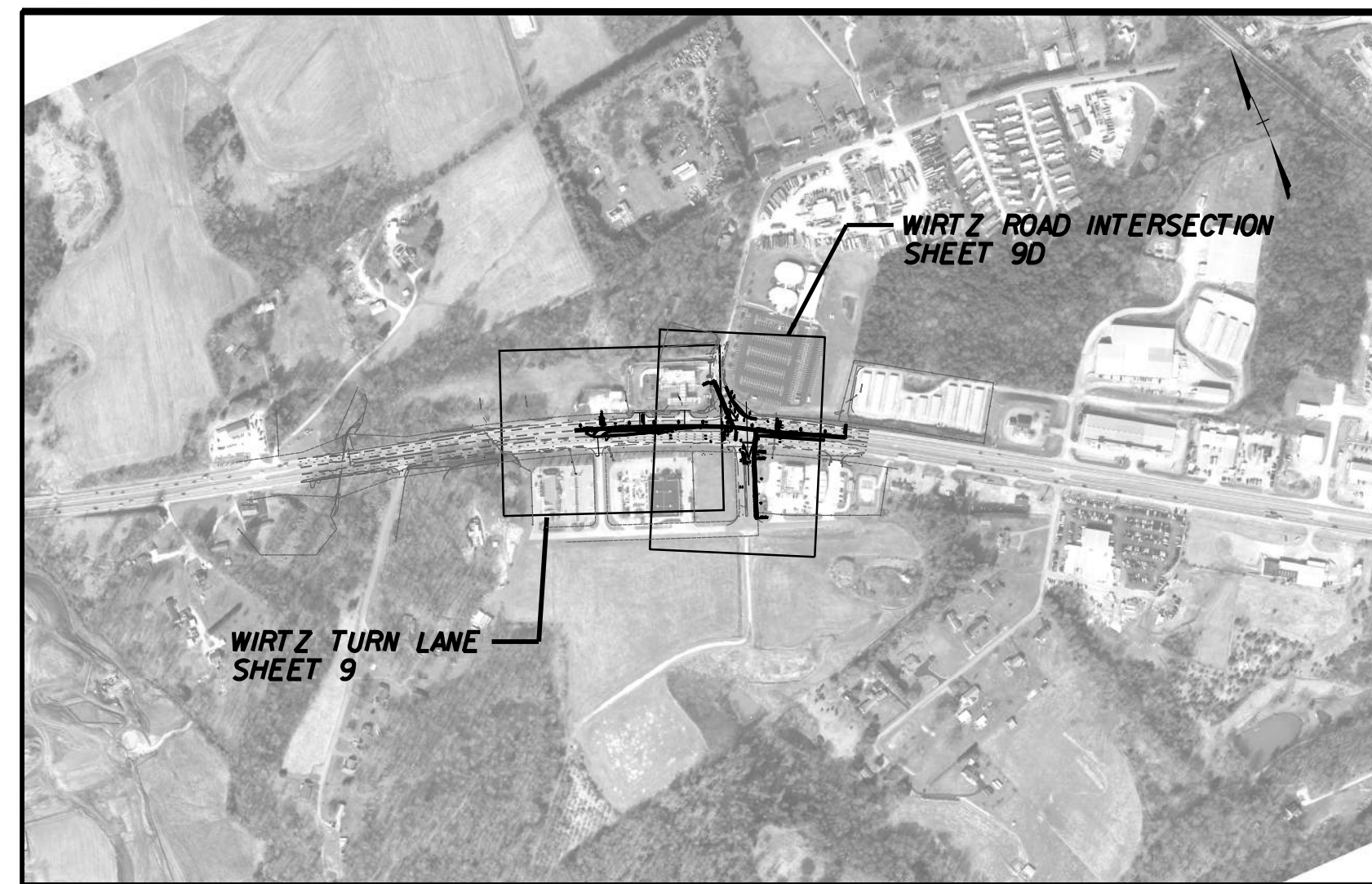
Copyright 2020, Commonwealth of Virginia

PROJECT MANAGER Brett Elledge, P.E. (540) 375-3580, (Salem District)  
 SURVEYED BY, DATE H&B Survey Log (804) 330-3781  
 DESIGN BY Bummel, Klepper, & Kahl, LLP (804) 782-1903  
 SUBSURFACE UTILITY BY, DATE Surveyor Name (000) 000-0000 (District)

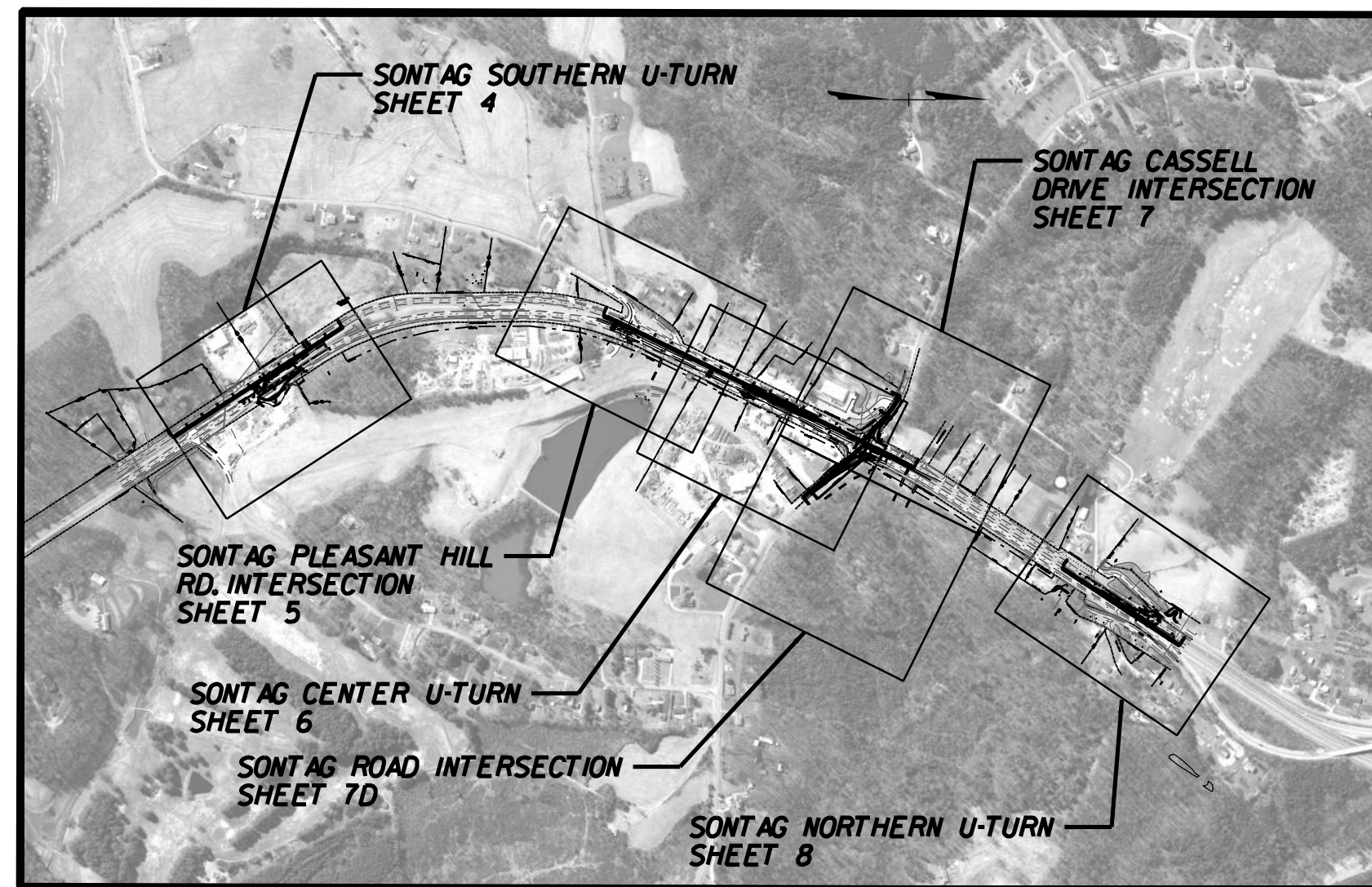
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	220	0220 - 033 - 843 RW-201, M-501	1A

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

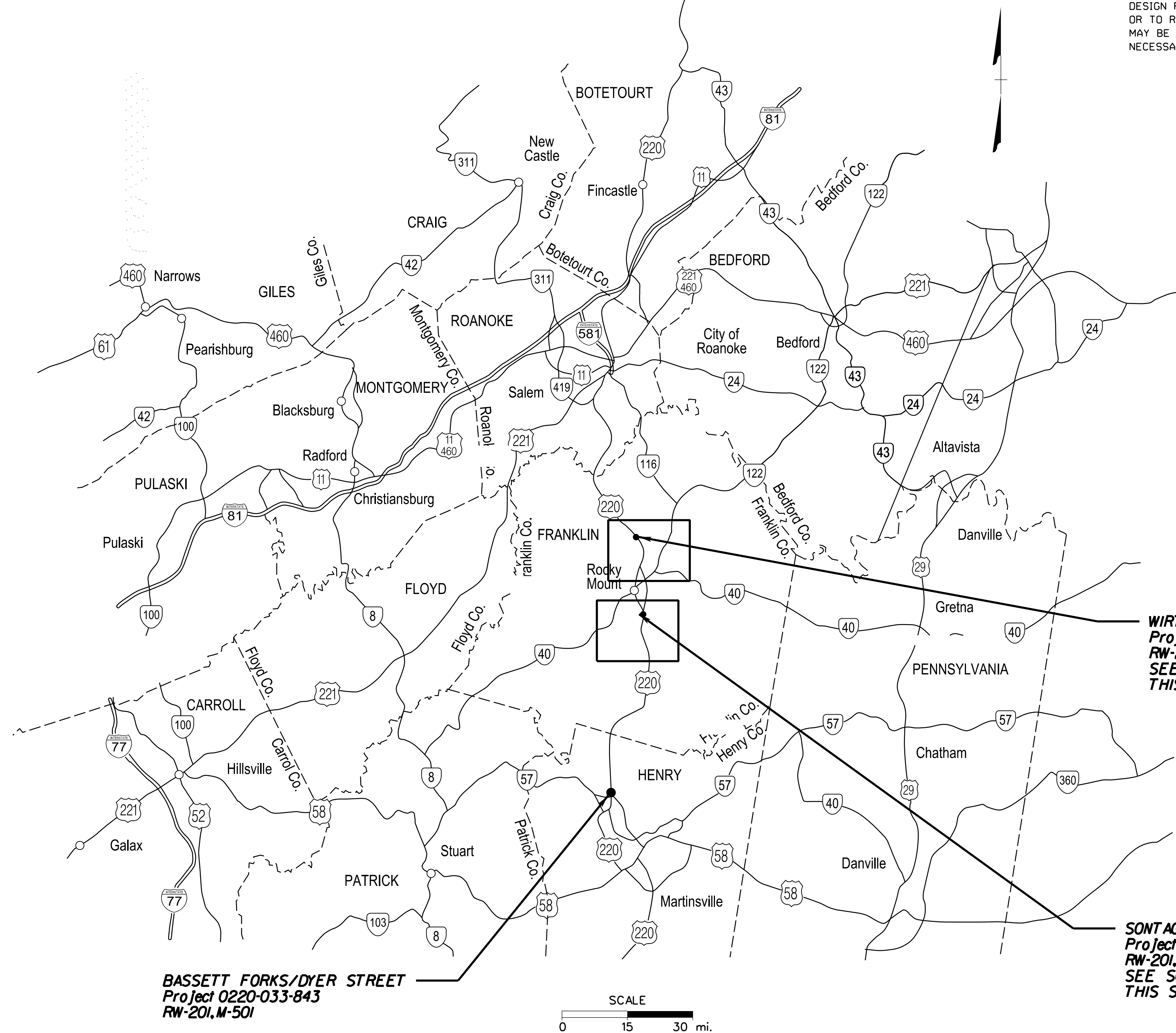
# LOCATION MAP



**WIRTZ LOCATIONS**  
NOT TO SCALE



**SONTAG LOCATIONS**  
NOT TO SCALE



ROUTE 220 INTERSECTION IMPROVEMENTS - FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA						
ROUTE	US 220	US 220	US 220			
Intersection	Bassett Forks/Dyer Street	Sontag/Cassell	697 Wirtz Road			
FUNCTIONAL CLASSIFICATION	RURAL PRINCIPAL ARTERIAL (OTHER)	RURAL PRINCIPAL ARTERIAL (OTHER)	RURAL PRINCIPAL ARTERIAL (OTHER)			
MIN. DESIGN SPEED	60	60	60			
ADT (2019)	18,000	16,000	26,000			
ADT (2040)	21,000	19,000	30,000			
DHV	2,100	1,900	3,000			
D (%) (design hour)	55%	60%	62%			
T (%) (design hour)	13%	13%	10%			
V (MPH)	55	55	55			
TC STD.	TC-5.11	TC-5.11	TC-5.11			
GEOMETRIC STD.	GS-1	GS-1	GS-1			

PH PLANS  
MARCH 2021

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

# INDEX OF SHEETS

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	220	0220 - 033 - 843 RW-201, M-501	1B

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
I	TITLE SHEET
IA	LOCATION MAP
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1C	RIGHT OF WAY DATA SHEET
1D	REVISION DATA SHEET
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1F(1)-1F(2)	CONSTRUCTION ALIGNMENT DATA SHEET
* 1G	UNDERGROUND UTILITY TEST HOLE INFORMATION
1H(1)-1H(4)	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
1J(1)	TRANSPORTATION MANAGEMENT PLAN
1K(1)	SOC AND TTC NOTES
* 2	GENERAL NOTES
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2A(3)	SONTAG SOUTHERN U-TURN TYPICAL SECTIONS
2A(4)	PLEASANT HILL ROAD & SONTAG CENTER U-TURN TYPICAL SECTIONS
2A(5)	Rte. 220 & CASSELL DRIVE TYPICAL SECTION
2A(6)	SONTAG ROAD TYPICAL SECTION
2A(7)	SONTAG NORTHERN U-TURN TYPICAL SECTIONS
2A(8)	WIRTZ TURN LANE TYPICAL SECTIONS
2A(9)	WIRTZ ROAD TYPICAL SECTIONS
* 2B(1)-2B(4)	MEDIAN & CURB RADIAL DETAILS
* 2D	PAVEMENT, INCIDENTAL AND MOT SUMMARY
* 2E	DRAINAGE SUMMARY
* 2J(1)	RADIAL OFFSETS - SONTAG SOUTHERN U-TURN
* 2J(2)	RADIAL OFFSETS - CENTER U-TURN
* 2J(3)	RADIAL OFFSETS - CASSELL DRIVE
* 2J(4)	RADIAL OFFSETS - SONTAG ROAD
* 2J(5)	RADIAL OFFSETS - SONTAG NORTHERN U-TURN
* 2J(6)	RADIAL OFFSETS - WIRTZ ROAD
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3B	E&S CONTROL PLAN - US 220 AT DYER STREET
* 3C	STORM SEWER PROFILE SHEET - US 220 AT DYER STREET
4	INTERSECTION PLAN - US 220 AT SONTAG SOUTHERN U-TURN
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* 5C	STORM SEWER PROFILE SHEET - US 220 AT PLEASANT HILL ROAD
6	INTERSECTION PLAN - US 220 AT SONTAG CENTER U-TURN
6A	US 220 AT SONTAG CENTER U-TURN PROFILE
6B	E&S CONTROL PLAN - US 220 AT SONTAG CENTER U-TURN
* 6C	STORM SEWER PROFILE SHEET - US 220 AT SONTAG CENTER U-TURN
7	INTERSECTION PLAN - US 220 AT SONTAG CASSELL DRIVE
7A	US 220 AT CASSELL DRIVE PROFILE
7B	E&S CONTROL PLAN - US 220 AT SONTAG CASSELL DRIVE
* 7C	STORM SEWER PROFILE SHEET - US 220 AT SONTAG CASSELL DRIVE
7D	INTERSECTION PLAN - US 220 AT SONTAG ROAD
7E	US 220 AT SONTAG ROAD PROFILE
7F	E&S CONTROL PLAN - US 220 AT SONTAG ROAD
* 7G	STORM SEWER PROFILE SHEET - US 220 AT SONTAG ROAD
8	INTERSECTION PLAN - US 220 AT SONTAG NORTHERN U-TURN
8A	US 220 AT SONTAG NORTHERN U-TURN PROFILE
8B	E&S CONTROL PLAN - US 220 AT SONTAG NORTHERN U-TURN
* 8C	STORM SEWER PROFILE SHEET - US 220 AT SONTAG NORTHERN U-TURN
9	INTERSECTION PLAN - US 220 AT WIRTZ TURN LANE
9A	US 220 AT WIRTZ TURN LANE PROFILE
9B	E&S CONTROL PLAN - US 220 AT WIRTZ TURN LANE
* 9C	STORM SEWER PROFILE SHEET - US 220 AT WIRTZ TURN LANE
9D	INTERSECTION PLAN - US 220 AT WIRTZ ROAD
9F	E&S CONTROL PLAN - US 220 AT WIRTZ ROAD
* 9G	STORM SEWER PROFILE SHEET - US 220 AT WIRTZ ROAD
* 10	SIGNING AND PAVEMENT MARKING PLANS
* 11	SIGNAL PLANS
X1-X3	SONTAG SOUTHERN U-TURN CROSS SECTIONS
X20-X21	CENTER U-TURN CROSS SECTIONS
X30	CASSELL DRIVE CROSS SECTIONS
X40-X41	SONTAG ROAD CROSS SECTIONS
X50-X52	SONTAG NORTHERN U-TURN CROSS SECTIONS
X60-X62	WIRTZ TURN LANE CROSS SECTIONS

PH PLANS  
MARCH 2021

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\* NOT INCLUDED WITH SUBMITTAL PACKAGE  
 \*\* TOTAL CROSS SECTION SHEETS --- (SEE CROSS SECTION SHEET X1 FOR INDEX OF CROSS SECTIONS)

PROJECT	SHEET NO.
0220-033-843	1B

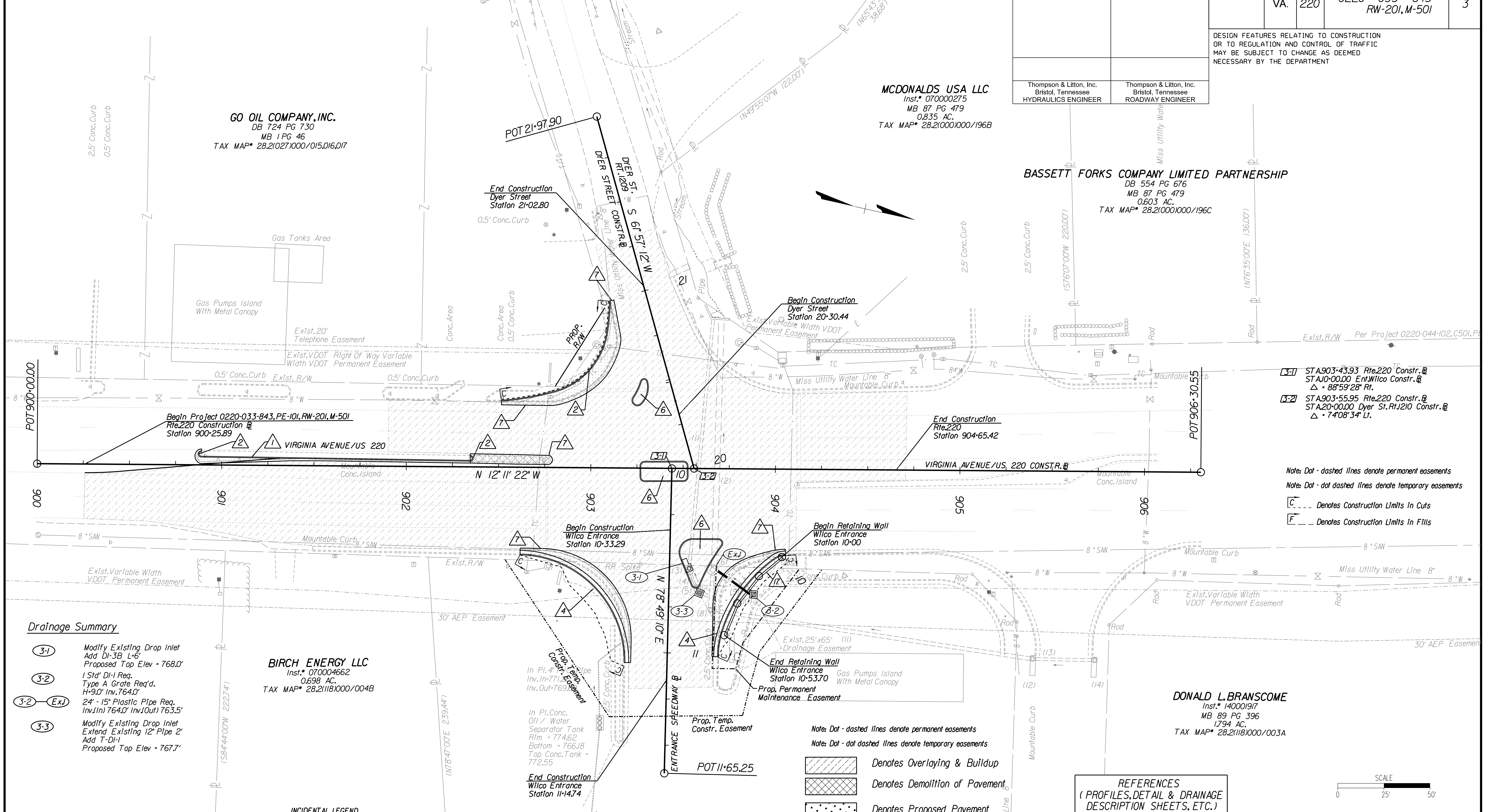
PROJECT MANAGER Brett E. Hedge, P.E. (540) 375-3580 (Salem, District)  
SURVEYED BY, DATE H&B Surveying (804) 330-3781  
DESIGN BY Burnette, Klepper & Kahl, L.L.P. (804) 782-1903  
SUBSURFACE UTILITY BY, DATE sSurveyor\_Name (000) 000-0000 (01/str/cl)

# DYER STREET INTERSECTION

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	220	0220 - 033 - 843 RW-201, M-501	3

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
--	---



- 3-1 STA 903+43.93 Rte. 220 Constr. @ STA 10+00.00 Ent. Wilco Constr. @ Δ = 88°59'28" Rt.
- 3-2 STA 903+55.95 Rte. 220 Constr. @ STA 20+00.00 Dyer St. Rt. 1210 Constr. @ Δ = 74°08'34" Lt.

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

### Drainage Summary

- 3-1 Modify Existing Drop Inlet Add DI-3B L-6 Proposed Top Elev = 768.0'
- 3-2 1 Std' DI-1 Req. Type A Grate Req'd. H=9.0' Inv. 764.0'
- 3-2 (Ex.) 24" - 15" Plastic Pipe Req. Inv. (In) 764.0' Inv. (Out) 763.5'
- 3-3 Modify Existing Drop Inlet Extend Existing 12" Pipe 2' Add T-DI-1 Proposed Top Elev = 767.7'

**BIRCH ENERGY LLC**  
 Inst. # 070004662  
 0.698 AC.  
 TAX MAP # 28.2(118)000/004B

**DONALD L. BRANSCOME**  
 Inst. # 140001917  
 MB 89 PG 396  
 1.794 AC.  
 TAX MAP # 28.2(118)000/003A

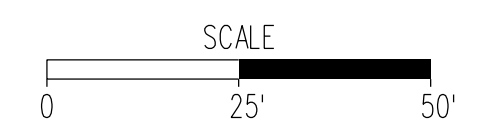
- Notes: Dot - dashed lines denote permanent easements  
 Notes: Dot - dot dashed lines denote temporary easements
- [Hatched] Denotes Overlaying & Buildup
  - [Cross-hatched] Denotes Demolition of Pavement
  - [Dotted] Denotes Proposed Pavement

### INCIDENTAL LEGEND

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

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

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



PH PLANS  
 MARCH 2021

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**WILCOHESS LLC**  
 Inst. # 100002771  
 MB 93 PG 432  
 3.306 AC.  
 TAX MAP # 28.2(118)000/004A

PROJECT	SHEET NO.
0220-033-843	3

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

# SONTAG SOUTHERN U-TURN

REVISED	STATE		SHEET NO.
	ROUTE	PROJECT	
	VA.	0220 - 033 - 843 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

Thompson & Litton, Inc.  
Bristol, Tennessee  
HYDRAULICS ENGINEER

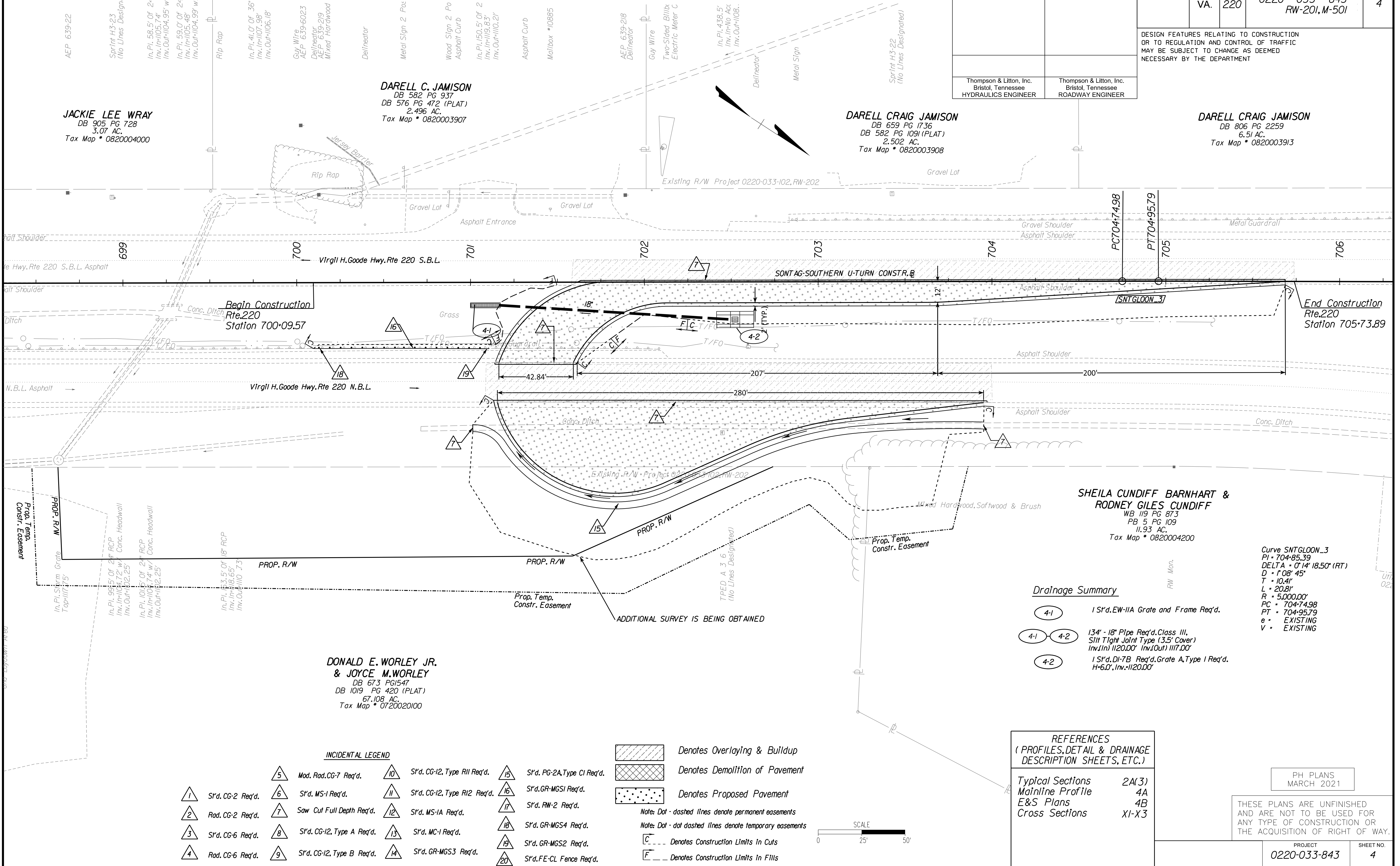
Thompson & Litton, Inc.  
Bristol, Tennessee  
ROADWAY ENGINEER

**JACKIE LEE WRAY**  
DB 905 PG 728  
3.07 AC.  
Tax Map \* 0820004000

**DARELL C. JAMISON**  
DB 582 PG 937  
DB 576 PG 472 (PLAT)  
2.496 AC.  
Tax Map \* 0820003907

**DARELL CRAIG JAMISON**  
DB 659 PG 1736  
DB 582 PG 1091 (PLAT)  
2.502 AC.  
Tax Map \* 0820003908

**DARELL CRAIG JAMISON**  
DB 806 PG 2259  
6.51 AC.  
Tax Map \* 0820003913



**DONALD E. WORLEY JR. & JOYCE M. WORLEY**  
DB 673 PG 1547  
DB 1019 PG 420 (PLAT)  
67.108 AC.  
Tax Map \* 0720021000

**SHEILA CUNDIFF BARNHART & RODNEY GILES CUNDIFF**  
WB 119 PG 873  
PB 5 PG 109  
11.93 AC.  
Tax Map \* 0820004200

Curve SNTGLOON\_3  
PI = 704+85.39  
DELTA = 0° 14' 18.50" (RT)  
D = 108' 45"  
T = 10.41'  
L = 20.81'  
R = 5,000.00'  
PC = 704+74.98  
PT = 704+95.79  
e = EXISTING  
V = EXISTING

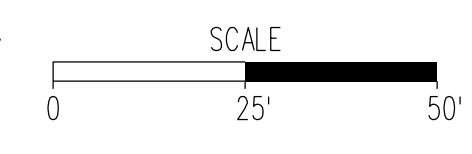
- Drainage Summary**
- 4-1 15" d. EW-11A Grate and Frame Req'd.
  - 4-1 4-2 134" - 18" Pipe Req'd. Class III, S111 Tight Joint Type (3.5" Cover) Inv.(In) 1120.00' Inv.(Out) 1117.00'
  - 4-2 15" d. DI-7B Req'd. Grate A, Type I Req'd. H=6.0', Inv.=1120.00'

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

Typical Sections	2A(3)
Mainline Profile	4A
E&S Plans	4B
Cross Sections	X1-X3

- INCIDENTAL LEGEND**
- |                    |                             |                                |                               |
|--------------------|-----------------------------|--------------------------------|-------------------------------|
| 1 S'd. CG-2 Req'd. | 5 Mod. Rad. CG-7 Req'd.     | 10 S'd. CG-12, Type R11 Req'd. | 15 S'd. PG-2A, Type C1 Req'd. |
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| 4 Rad. CG-6 Req'd. | 8 S'd. CG-12, Type A Req'd. | 13 S'd. MC-1 Req'd.            | 18 S'd. GR-MGS4 Req'd.        |
|                    | 9 S'd. CG-12, Type B Req'd. | 14 S'd. GR-MGS3 Req'd.         | 19 S'd. GR-MGS2 Req'd.        |
|                    |                             | 20 S'd. FE-CL Fence 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
- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills



PH PLANS  
MARCH 2021

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PROJECT	0220-033-843	SHEET NO.	4
---------	--------------	-----------	---

# PLEASANT HILL ROAD INTERSECTION

PROJECT MANAGER: Brett E. Hedge, P.E. (4540) 375-3580 (Salem, District)  
 SURVEYED BY, DATE: H&B Surveying (804) 330-3781  
 DESIGN BY: Bunnie Klapper & Kabl, L.L.P. (804) 782-1903  
 SUBSURFACE UTILITY BY, DATE: sSurveyor\_Name (0000) 0000-0000 (District)

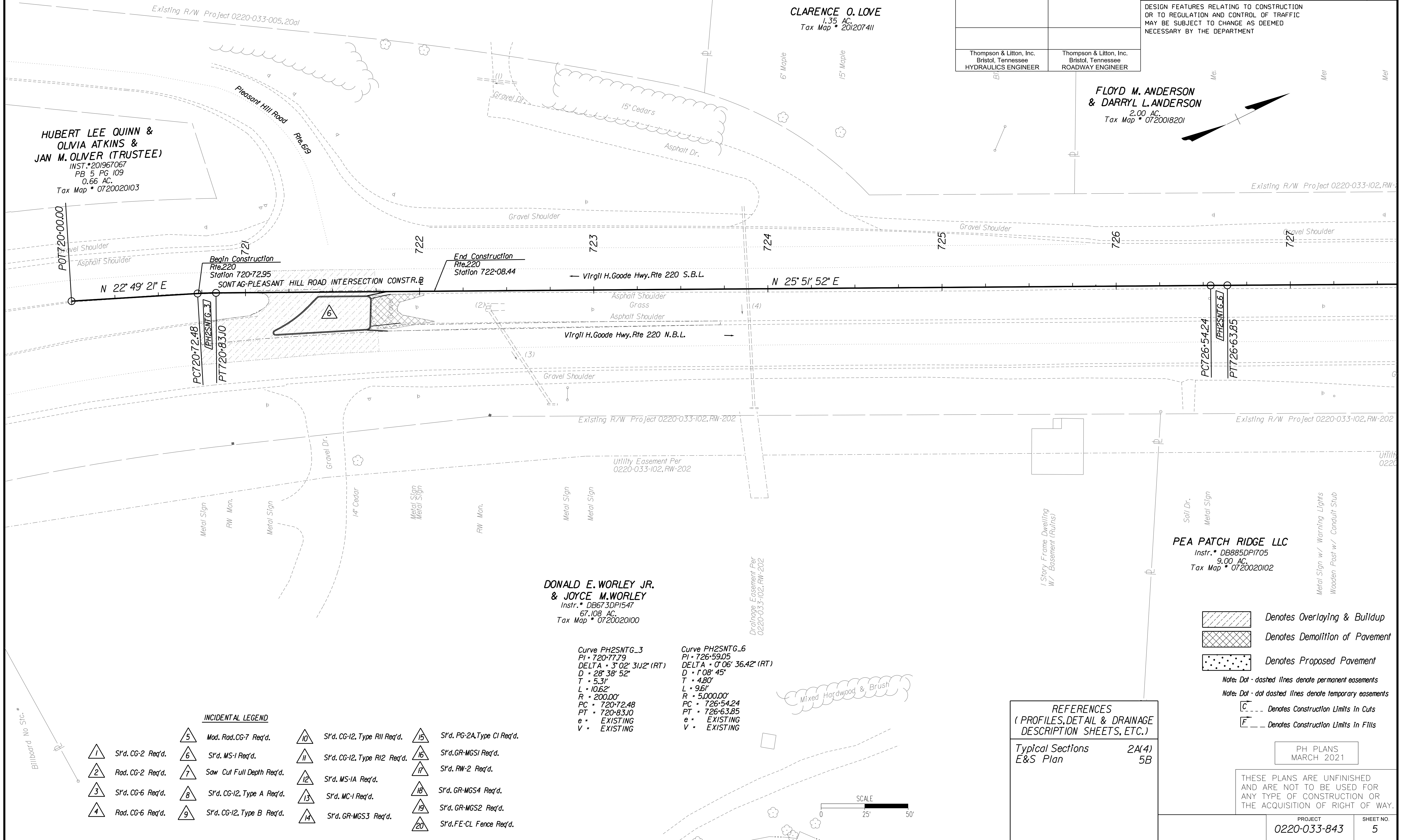
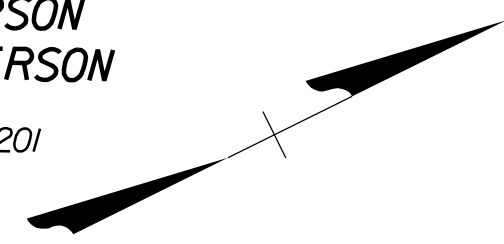
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	220	0220 - 033 - 843 RW-201, M-501	5

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

**FLOYD M. ANDERSON  
& DARRYL L. ANDERSON**  
2.00 AC.  
Tax Map \* 0720018201



Curve PH2SNTG\_3  
PI • 720+77.79  
DELTA • 3° 02' 31.12" (RT)  
D • 28' 38" 52"  
T • 5.31'  
L • 10.62'  
R • 200.00'  
PC • 720+72.48  
PT • 720+83.10  
e • EXISTING  
V • EXISTING

Curve PH2SNTG\_6  
PI • 726+59.05  
DELTA • 0° 06' 36.42" (RT)  
D • 1' 08" 45"  
T • 4.80'  
L • 9.61'  
R • 5,000.00'  
PC • 726+54.24  
PT • 726+63.85  
e • EXISTING  
V • EXISTING

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

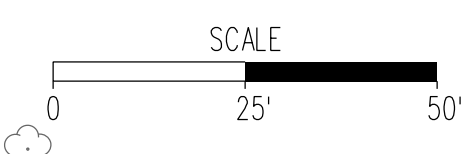
- Denotes Construction Limits in Cuts
- Denotes Construction Limits in Fills

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

Typical Sections 2A(4)  
 E&S 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 Ellidge, P.E. (540) 375-3580 (Salem, District)  
SURVEYED BY, DATE H&B Surveying (804) 330-3781  
DESIGN BY Burnette Klapper & Kabl, L.L.P. (804) 782-1903  
SUBSURFACE UTILITY BY, DATE sSurveyor Name (000) 000-0000 (District)

# SONTAG CENTER U-TURN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	220	0220 - 033 - 843 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

**FLOYD M. ANDERSON  
& DARRYL L. ANDERSON**  
2.00 AC.  
Tax Map \* 0720018201

### Drainage Summary

- 6-1 1 S'd. DI-3B Req'd.  
L \* 8', H \* 3.5', Inv. = 1235.95'
- 6-1 6-2 120 LF of 15" Pipe, Class III, Silt Tight Joint Type  
Inv(In) = 1235.95' Inv(Out) = 1234.95'
- 6-2 Convert Existing DI to DI-3B  
Adjust to Grade, Higher 0.5'  
1 S'd. DI-3B Req'd.  
Proposed Top Elev = 1238.0'

Curve PH2SNTG-6  
PI = 726-59.05  
DELTA = 07°06'36.42" (RT)  
D = 1708' 45"  
T = 480'  
L = 981'  
R = 5000.00'  
PC = 726-54.24  
PT = 726-63.85  
e = EXISTING  
v = EXISTING

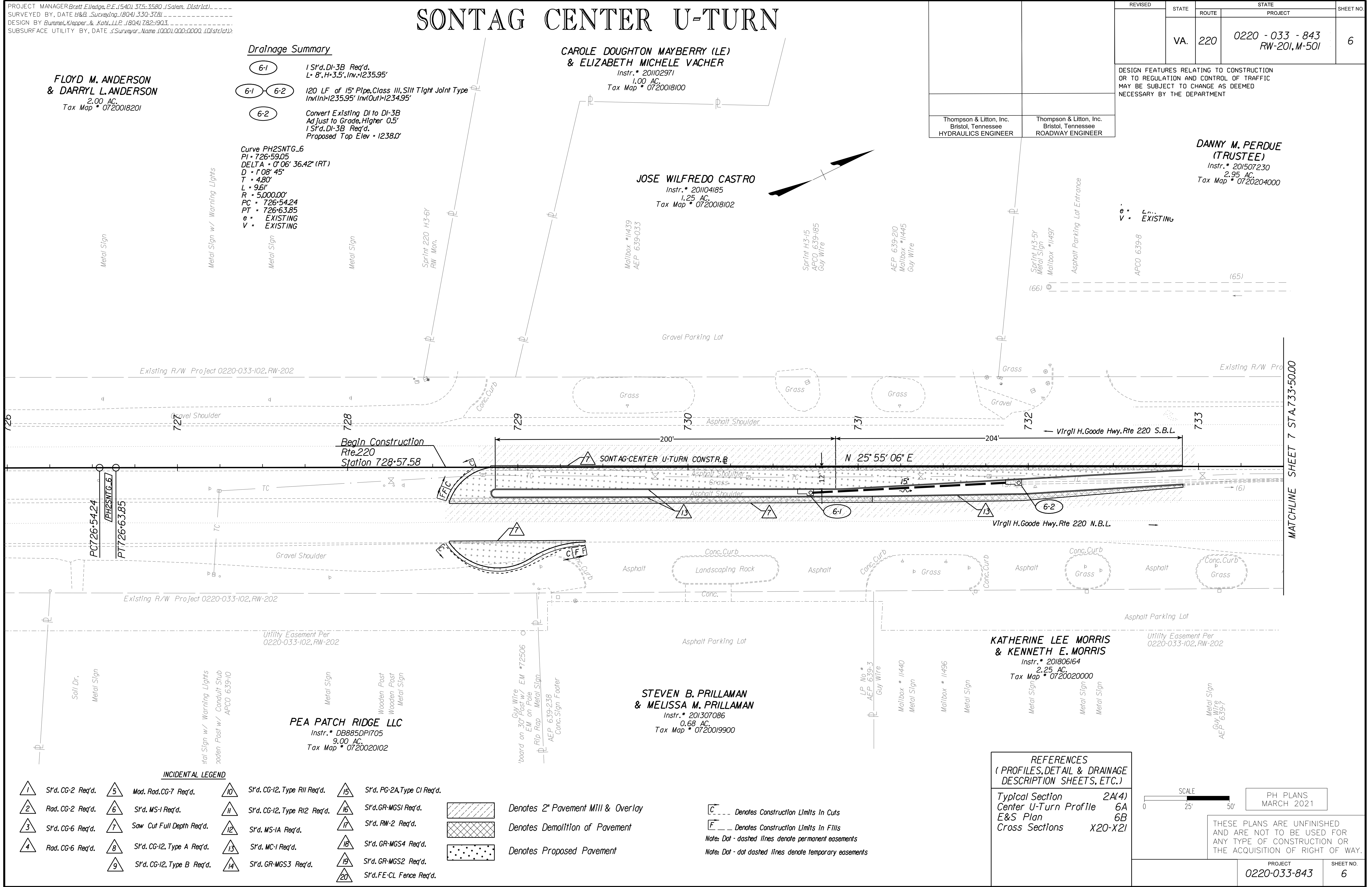
**CAROLE DOUGHTON MAYBERRY (LE)  
& ELIZABETH MICHELE VACHER**  
Instr. \* 201102971  
1.00 AC.  
Tax Map \* 0720018100

**JOSE WILFREDO CASTRO**  
Instr. \* 201104185  
1.25 AC.  
Tax Map \* 0720018102

**DANNY M. PERDUE  
(TRUSTEE)**  
Instr. \* 201507230  
2.95 AC.  
Tax Map \* 0720204000

Thompson & Litton, Inc.  
Bristol, Tennessee  
HYDRAULICS ENGINEER

Thompson & Litton, Inc.  
Bristol, Tennessee  
ROADWAY ENGINEER



### INCIDENTAL LEGEND

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

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

- Denotes Construction Limits in Cuts
- Denotes Construction Limits in Fills
- 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(4)  
Center U-Turn Profile 6A  
E&S Plan 6B  
Cross Sections X20-X21

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 MANAGER Brett E. Hedger, P.E. (540) 375-3580 (Salem, District)  
SURVEYED BY, DATE H&B Surveying (804) 330-3781  
DESIGN BY Bunnel Klapper & Kabl, L.L.P. (804) 782-1903  
SUBSURFACE UTILITY BY, DATE sSurveyor's Name (000) 000-0000 (01/18/18)

# SONTAG CASSELL DRIVE INTERSECTION

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	220		0220 - 033 - 843 RW-201, M-501	7

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.
  - 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. RW-2 Req'd.
  - 18 S'd. GR-MGS4 Req'd.
  - 19 S'd. GR-MGS2 Req'd.
  - 20 S'd. FE-CL Fence Req'd.

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

- 67 STA. 735+71.11 Rte. 220 Constr. @ STA. 30+00.00 Cassell Drive Constr. @ Δ = 105'51" 52" Lt.
- 6D-21 STA. 735+90.56 Rte. 220 Constr. @ STA. 40+00.00 Sontag Rd. Constr. @ Δ = 67' 06' 29" Rt.

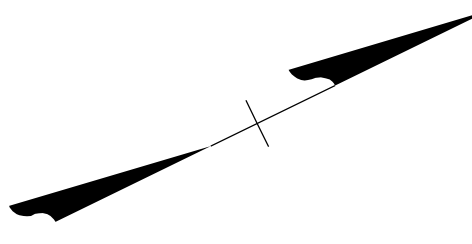
**Drainage Summary**

- 7-1 1 S'd. DI-3B Req'd.  
L = 10', H = 4.4', Inv. = 1231.5'  
Connect to Ex. 15" RCP  
Approx. Inv. (In) 1231.6' Approx. Inv. (Out) 1231.5'
- 7-2 Convert Existing DI to MH  
Ad just to Grade, Lower 0.5'  
1 S'd. MH-1 Frame & Cover Req'd.  
Proposed Top Elev = 1235.3'
- 7-3 Convert Existing DI to MH  
Ad just to Grade, Lower 0.5'  
1 S'd. MH-1 Frame & Cover Req'd.  
Proposed Top Elev = 1233.1'

Curve PH2SNTG\_9  
PI = 735+75.72  
DELTA = 0° 35' 38.47" (RT)  
D = 1' 08' 45"  
T = 25.92'  
L = 51.84'  
R = 5,000.00'  
PC = 735+49.80  
PT = 736+01.64  
e = EXISTING  
v = EXISTING

**DANNY M. PERDUE (TRUSTEE)**  
Instr. # 201507230  
2.95 AC.  
Tax Map # 0720204000

Curve CASSELL\_3  
PI = 32+60.88  
DELTA = 16° 43' 17.52" (LT)  
D = 12° 44' 51"  
T = 66.06'  
L = 131.08'  
R = 449.47'  
PC = 31+94.82  
PT = 33+25.99  
e = EXISTING  
v = EXISTING

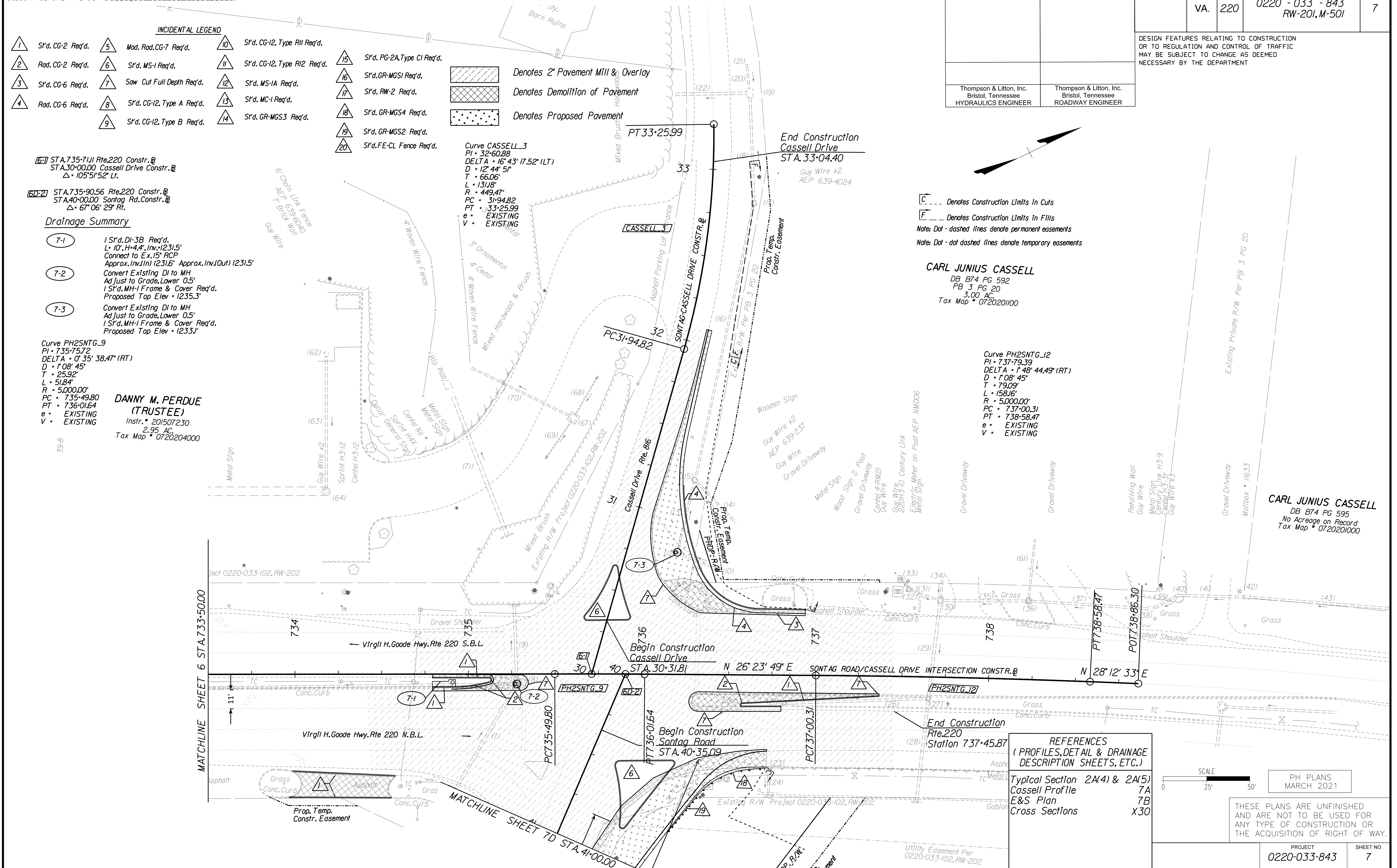


C --- Denotes Construction Limits in Cuts  
F --- Denotes Construction Limits in Fills  
Note: Dot - dashed lines denote permanent easements  
Note: Dot - dot dashed lines denote temporary easements

**CARL JUNIUS CASSELL**  
DB B74 PG 592  
PB 3 PG 20  
3.00 AC.  
Tax Map # 0720201100

Curve PH2SNTG\_12  
PI = 737+79.39  
DELTA = 1° 48' 44.49" (RT)  
D = 1' 08' 45"  
T = 79.09'  
L = 158.16'  
R = 5,000.00'  
PC = 737+00.31  
PT = 738+58.47  
e = EXISTING  
v = EXISTING

**CARL JUNIUS CASSELL**  
DB B74 PG 595  
No Acreage on Record  
Tax Map # 0720201000



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

Typical Section 2A(4) & 2A(5)	7A
Cassell Profile	7B
E&S Plan	X30
Cross Sections	

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.

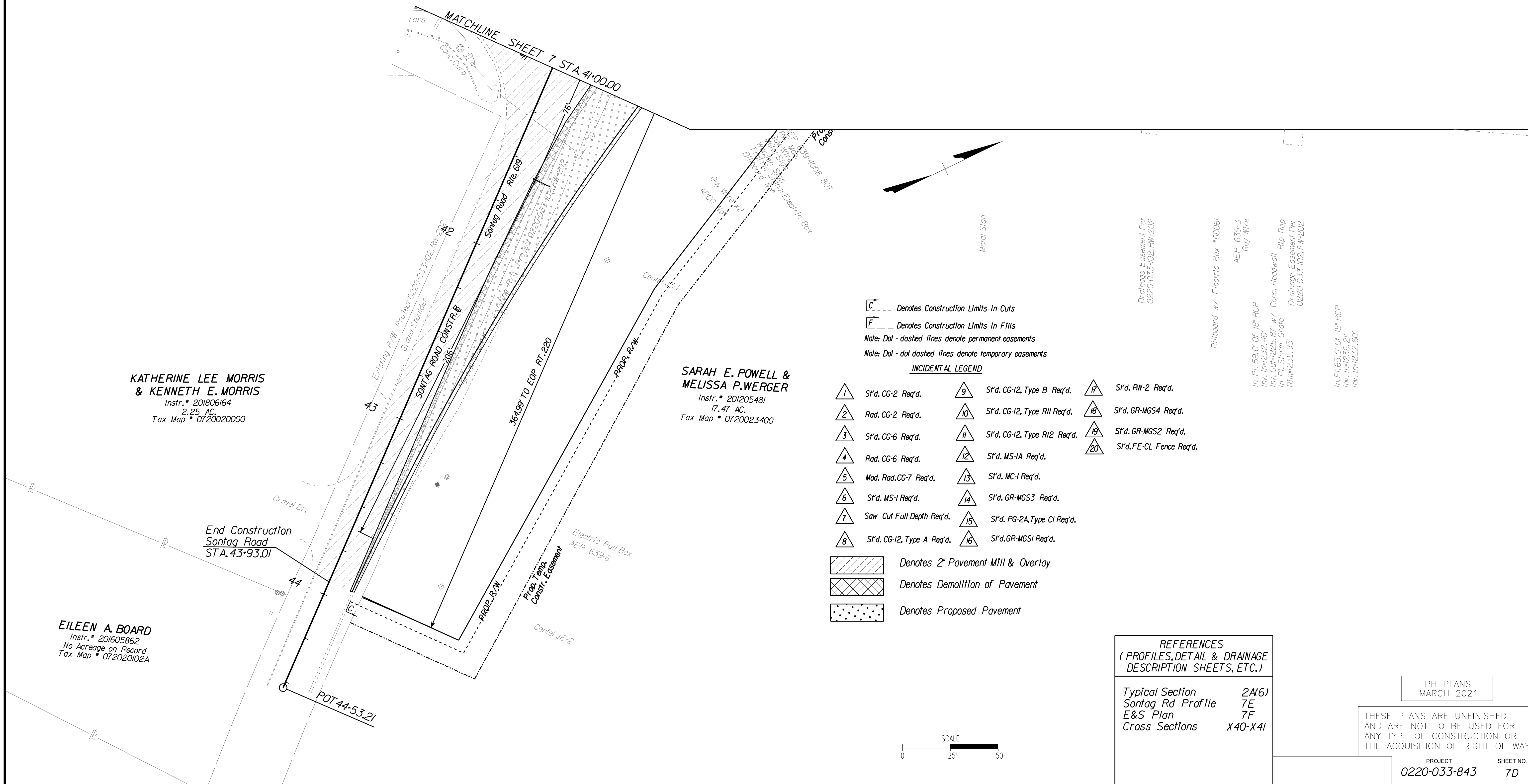
PROJECT	SHEET NO.
0220-033-843	7



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

# SONTAG ROAD INTERSECTION

	REVISED	STATE	STATE	SHEET NO.
		ROUTE	PROJECT	
		VA.	0220 - 033 - 843 RW-201, M-501	7D
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		



**KATHERINE LEE MORRIS & KENNETH E. MORRIS**  
Instr. # 201806164  
2.25 AC.  
Tax Map # 0720020000

**SARAH E. POWELL & MELISSA P. WERGER**  
Instr. # 201205481  
17.47 AC.  
Tax Map # 0720023400

**EILEEN A. BOARD**  
Instr. # 201605862  
No Acreage on Record  
Tax Map # 072020102A

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

**INCIDENTAL LEGEND**

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

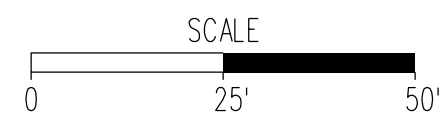
- Denotes 2" Pavement Mill & Overlay
- Denotes Demolition of Pavement
- Denotes Proposed Pavement

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

Typical Section 2A(6)  
Sontag Rd Profile 7E  
E&S Plan 7F  
Cross Sections X40-X41

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 Elledge, P.E. (4540) 375-3580 (Salem District)  
SURVEYED BY, DATE H&B Surveying (804) 330-3781  
DESIGN BY Burrell Klemper & Kahl, L.L.P. (804) 782-1903  
SUBSURFACE UTILITY BY, DATE sSurveyor Name (000) 000-0000 (District)

# SONTAG - NORTHERN U-TURN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	220		0220 - 033 - 843 RW-201, M-501	8

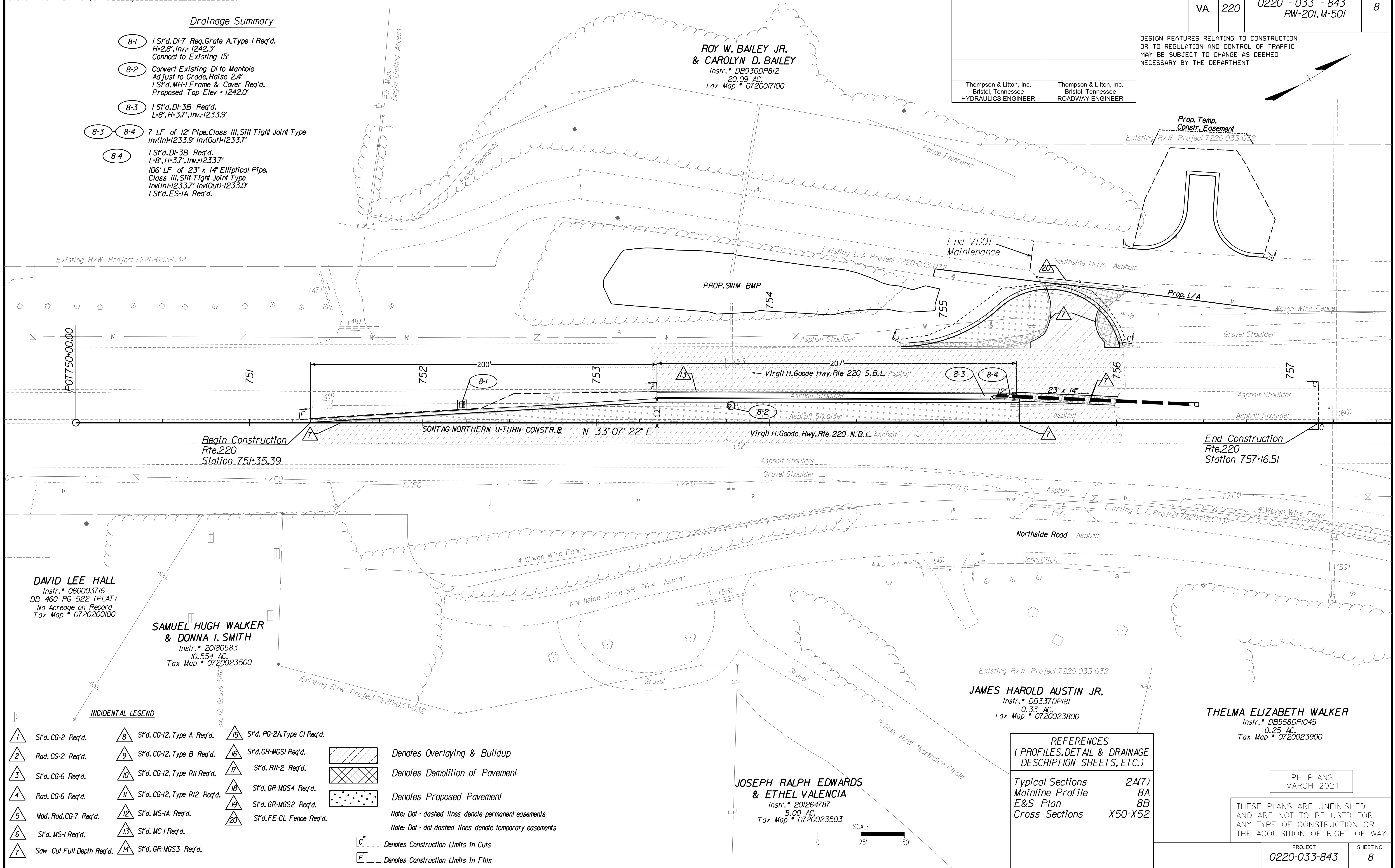
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Thompson & Litton, Inc.  
Bristol, Tennessee  
HYDRAULICS ENGINEER

Thompson & Litton, Inc.  
Bristol, Tennessee  
ROADWAY ENGINEER

### Drainage Summary

- 8-1 1 S1'd. DI-7 Req. Grate A, Type I Req'd.  
H=2.8', Inv.= 1242.3'  
Connect to Existing 15"
- 8-2 Convert Existing DI to Manhole  
Adjust to Grade, Raise 2.4'  
1 S1'd. MH-1 Frame & Cover Req'd.  
Proposed Top Elev = 1242.0'
- 8-3 1 S1'd. DI-3B Req'd.  
L=8', H=3.7', Inv.= 1233.9'
- 8-3 8-4 7 LF of 12" Pipe, Class III, Silt Tight Joint Type  
Inv(In)=1233.9' Inv(Out)=1233.7'
- 8-4 1 S1'd. DI-3B Req'd.  
L=8', H=3.7', Inv.= 1233.7'  
106' LF of 23" x 14" Elliptical Pipe,  
Class III, Silt Tight Joint Type  
Inv(In)=1233.7' Inv(Out)=1233.0'  
1 S1'd. ES-1A Req'd.



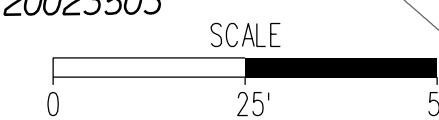
### INCIDENTAL LEGEND

- |                             |                                 |                                |   |
|-----------------------------|---------------------------------|--------------------------------|---|
| 1 S1'd. CG-2 Req'd.         | 8 S1'd. CG-12, Type A Req'd.    | 15 S1'd. PG-2A, Type CI Req'd. | Denotes Overlaying & Buildup  |
| 2 Rad. CG-2 Req'd.          | 9 S1'd. CG-12, Type B Req'd.    | 16 S1'd. GR-MGSI Req'd.        |   |
| 3 S1'd. CG-6 Req'd.         | 10 S1'd. CG-12, Type RII Req'd. | 17 S1'd. RW-2 Req'd.           | Denotes Proposed Pavement   |
| 4 Rad. CG-6 Req'd.          | 11 S1'd. CG-12, Type RI2 Req'd. | 18 S1'd. GR-MGS4 Req'd.        |   |
| 5 Mod. Rad. CG-7 Req'd.     | 12 S1'd. MS-1A Req'd.           | 19 S1'd. GR-MGS2 Req'd.        | C --- Denotes Construction Limits in Cuts<br>F --- Denotes Construction Limits in Fills |
| 6 S1'd. MS-1 Req'd.         | 13 S1'd. MC-1 Req'd.            | 20 S1'd. FE-CL Fence Req'd.    |   |
| 7 Saw Cut Full Depth Req'd. | 14 S1'd. GR-MGS3 Req'd.         |                                |   |

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

- |                  |         |
|------------------|---------|
| Typical Sections | 2A(7)   |
| Mainline Profile | 8A      |
| E&S Plan         | 8B      |
| Cross Sections   | X50-X52 |

JOSEPH RALPH EDWARDS  
& ETHEL VALENCIA  
Instr. # 201264787  
5.00 AC.  
Tax Map # 0720023503



THELMA ELIZABETH WALKER  
Instr. # DB558DP1045  
0.25 AC.  
Tax Map # 0720023900

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.
0220-033-843	8

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

# WIRTZ TURN LANE

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	220	0220 - 033 - 843 RW-201, M-501	9

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

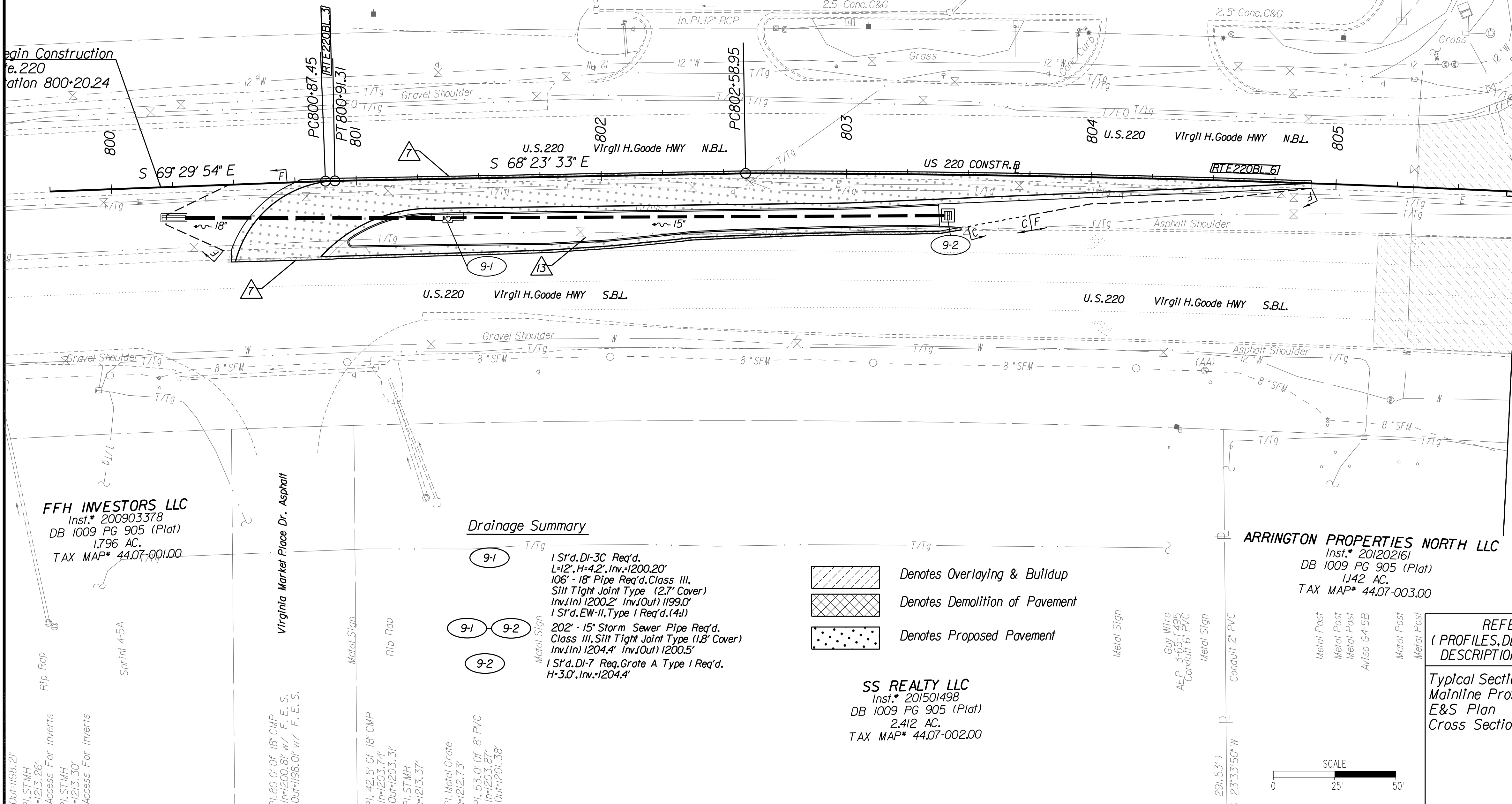
End Construction  
Wirtz Road Rte. 69,  
Station 31+66.32

CHURCH FAITH FELLOWSHIP INC.  
DB 879 PG 1040  
DB 471 PG 417 (PLAT)  
7,906 AC.  
TAX MAP# 36.00-223.08

ARRINGTON PROPERTIES NORTH LLC  
DB 685 PG 956  
PB 574 PG 220 (PLAT)  
7.25 AC.  
TAX MAP# 36.01-138.01

- Curve RTE220BL\_3  
PI - 800+89.38  
DELTA - 1° 06' 20.75" (RT)  
D - 28' 38' 52"  
T - 193'  
L - 3.86'  
R - 200.00'  
PC - 800+87.45  
PT - 800+91.31  
e - EXISTING  
V - 55 MPH
- Curve RTE220BL\_6  
PI - 804+24.73  
DELTA - 2° 49' 04.25" (RT)  
D - 0' 51' 00"  
T - 165.78'  
L - 331.49'  
R - 6740.28'  
PC - 802+58.95  
PCC - 805+90.44  
PT - 800+91.31  
e - EXISTING  
V - 55 MPH
- Curve RTE220BL\_7  
PI - 806+13.07  
DELTA - 5° 10' 51.45" (RT)  
D - 11' 27' 33"  
T - 22.62'  
L - 45.21'  
R - 500.00'  
PC - 802+58.95  
PCC - 805+90.44  
PT - 808+10.51  
e - EXISTING  
V - 55 MPH
- Curve RTE220BL\_10  
PI - 808+06.21  
DELTA - 2° 28' 06.69" (LT)  
D - 28' 38' 52"  
T - 4.31'  
L - 8.62'  
R - 200.00'  
PC - 808+01.90  
PCC - 808+10.51  
PT - 808+10.51  
e - EXISTING  
V - 55 MPH

Begin Construction  
e. 220  
Station 800+20.24



MATCHLINE STA. 805+75.00 SEE SHEET 9D

MATCHLINE WIRTZ RD STA. 30+75.00 SEE SHEET 9D

**INCIDENTAL LEGEND**

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

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

**Drainage Summary**

- 9-1  
1 Sr'd. DI-3C Req'd.  
L=12', H=4.2', Inv.=1200.20'  
106' - 18" Pipe Req'd. Class III,  
S111 Tight Joint Type (2.7' Cover)  
Inv.(In) 1200.2' Inv.(Out) 1199.0'  
1 Sr'd. EW-11, Type I Req'd. (41)
- 9-2  
202' - 15" Storm Sewer Pipe Req'd.  
Class III, S111 Tight Joint Type (1.8' Cover)  
Inv.(In) 1204.4' Inv.(Out) 1200.5'
- 9-2  
1 Sr'd. DI-7 Req. Grate A Type I Req'd.  
H=3.0', Inv.=1204.4'

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

SS REALTY LLC  
Inst. # 201501498  
DB 1009 PG 905 (Plat)  
2.412 AC.  
TAX MAP# 44.07-002.00

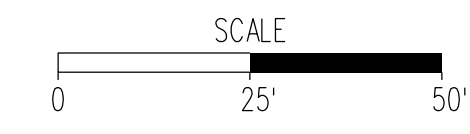
ARRINGTON PROPERTIES NORTH LLC  
Inst. # 201202161  
DB 1009 PG 905 (Plat)  
1.142 AC.  
TAX MAP# 44.07-003.00

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

- Typical Sections 2A(8)
- Mainline Profile 9A
- E&S Plan 9B
- Cross Sections X60-X62

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.
0220-033-843	9

PROJECT MANAGER Brett Ellledge, P.E. (540) 375-3580 (Salem, District)  
SURVEYED BY, DATE H&B Surveying (804) 330-3781  
DESIGN BY Burrell Klapper & Kahl, L.L.P. (804) 782-1903  
SUBSURFACE UTILITY BY, DATE sSurveyor Name (000) 000-0000 (01/1/2012)

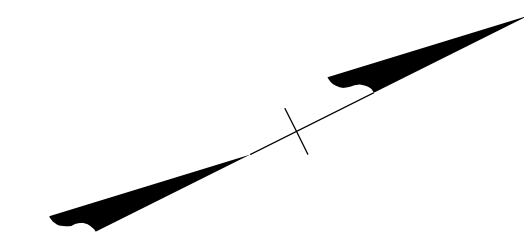
# WIRTZ ROAD INTERSECTION

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	220		0220 - 033 - 843 RW-201, M-501	9D

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



- 9D-1 STA 802+24.40 Rte.220 Const. @  
STA 30+00.00 Rte.697 Wirtz Road Constr. @  
Δ = 62'43'35" Rt.
- 9D-2 STA 807+18.19 Rte.220 Const. @  
STA 40+00.00 Virginia Market Place Drive Constr. @  
Δ = 92'24'50" Lt.

<p>Curve VAMPL_3 PI = 41+03.49 DELTA = 5° 37' 13.54" (LT) D = 19' 05' 55" T = 14.73' L = 29.43' R = 300.00' PC = 40+88.77 PT = 41+18.20 e = EXISTING V = EXISTING</p>	<p>Curve RTE220BL_7 PI = 806+13.07 DELTA = 5° 10' 51.45" (RT) D = 11' 27' 33" T = 22.62' L = 45.21' R = 500.00' PCC = 805+90.44 PT = 806+35.66 e = EXISTING V = 55 MPH</p>	<p>Curve RTE220BL_10 PI = 808+06.21 DELTA = 2° 28' 06.69" (LT) D = 28' 38' 52" T = 4.31' L = 8.62' R = 200.00' PC = 808+01.90 PT = 808+10.51 e = EXISTING V = 55 MPH</p>
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### Drainage Summary

- 9D-1 1 S'd. DI-3B Req'd.  
L=4.0', H=3.3', Inv.=1203.70'  
65' - 15" Storm Sewer Pipe Req'd.  
Class III, Silt Tight Joint Type (3.5' Cover)  
Inv(In) 1203.70' Inv(Out) 1203.24' (Ex. Ditch)

CHURCH FAITH FELLOWSHIP INC.  
DB 879 PG 1040  
DB 471 PG 417 (PLAT)  
7.906 AC.  
TAX MAP# 36.00-223.08

- 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

- Denotes Construction Limits in Cuts
- Denotes Construction Limits in Fills

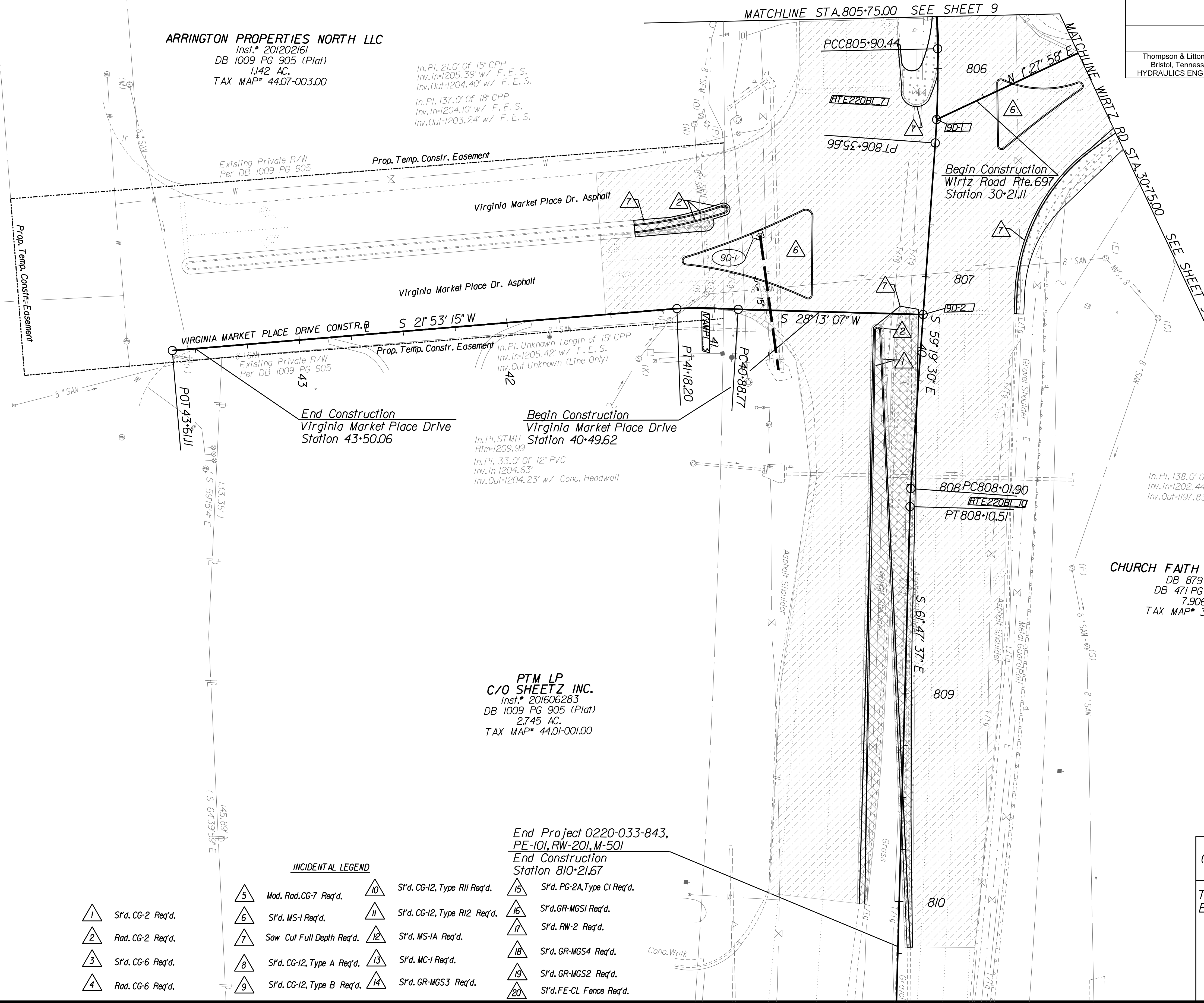
REFERENCES  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Typical Sections 2A(9)  
E&S Plan 9E

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 0220-033-843  
SHEET NO. 9D



ARRINGTON PROPERTIES NORTH LLC  
Inst.# 201202161  
DB 1009 PG 905 (Plat)  
1.42 AC.  
TAX MAP# 44.07-003.00

In. Pl. 21.0' Of 15' CPP  
Inv. In=1205.39' w/ F. E. S.  
Inv. Out=1204.40' w/ F. E. S.

In. Pl. 137.0' Of 18' CPP  
Inv. In=1204.10' w/ F. E. S.  
Inv. Out=1203.24' w/ F. E. S.

Existing Private R/W  
Per DB 1009 PG 905

VIRGINIA MARKET PLACE DRIVE CONSTR. @  
S 21° 53' 15" W

End Construction  
Virginia Market Place Drive  
Station 43+50.06

Begin Construction  
Virginia Market Place Drive  
Station 40+49.62

In. Pl. STMH  
Rim=1209.99  
In. Pl. 33.0' Of 12" PVC  
Inv. In=1204.63'  
Inv. Out=1204.23' w/ Conc. Headwall

PTM LP  
C/O SHEETZ INC.  
Inst.# 201606283  
DB 1009 PG 905 (Plat)  
2.745 AC.  
TAX MAP# 44.01-001.00

End Project 0220-033-843,  
PE-101, RW-201, M-501  
End Construction  
Station 810+21.67

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

