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Plotted By: nklm

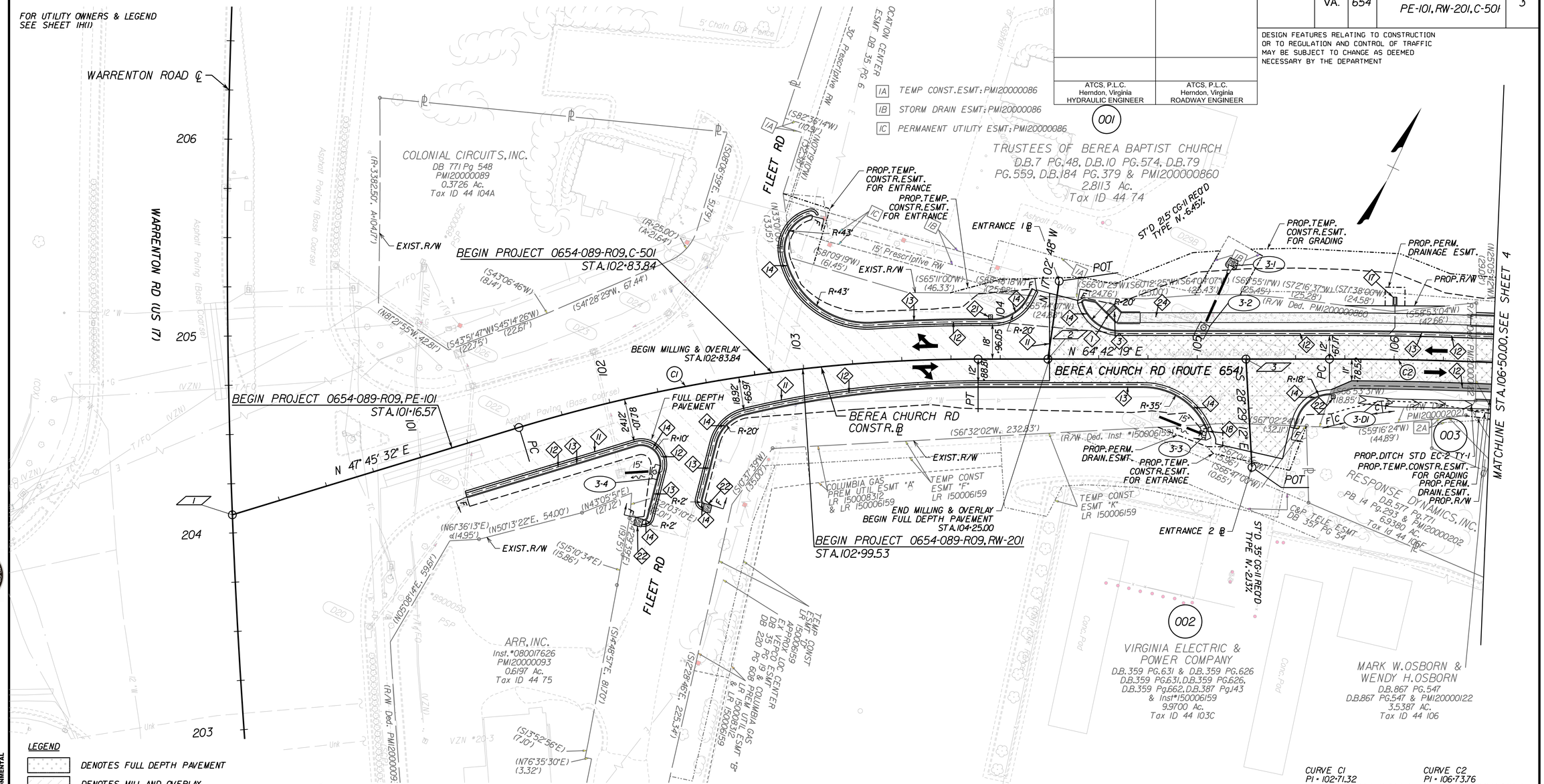
By Resolution of Highway Commission dated Oct. 13, 1966, amended May 11, 1967, amended Mar. 19, 2014

PROJECT MANAGER ALEX OWSIAK, P.E. (540) 658-4900 STAFFORD COUNTY PUBLIC WORKS
SURVEYED BY, DATE ATCS, P.L.C. (703) 430-7500, 10/6/2017
DESIGN BY THOMAS E. FLEMING, P.E. ATCS, P.L.C. (703) 430-7500
SUBSURFACE UTILITY BY, DATE ACCUMARK, INC. (804) 550-7740, 9/28/2017

REVISED		STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
		VA.	654	0654-089-R09 PE-101, RW-201, C-501	3
ATCS, P.L.C. Herndon, Virginia HYDRAULIC ENGINEER	ATCS, P.L.C. Herndon, Virginia ROADWAY ENGINEER				

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

FOR UTILITY OWNERS & LEGEND SEE SHEET 1H(1)



LEGEND

- DENOTES FULL DEPTH PAVEMENT
- DENOTES MILL AND OVERLAY
- DENOTES DEMOLITION OF PAVEMENT
- DENOTES PAVED SHOULDER
- DENOTES PROPOSED TEMPORARY EASEMENTS
- DENOTES PROPOSED PERMANENT EASEMENTS
- DENOTES PROPOSED RIGHT OF WAY
- DENOTES EXISTING RIGHT OF WAY
- C. DENOTES CONSTRUCTION LIMITS IN CUTS
- F. DENOTES CONSTRUCTION LIMITS IN FILLS

TRAFFIC FLOW ARROW

ROADWAY DESIGN LEGEND

- 1 → DENOTES ST'D. CG-2 REQ'D.
- 3 → DENOTES ST'D. CG-12B REQ'D.
- 11 → DENOTES FULL DEPTH SAW CUT REQ'D.
- 12 → DENOTES ST'D. UD-4 REQ'D.
- 13 → DENOTES ST'D CG-6 REQ'D.
- 14 → DENOTES RADIAL CG-6 REQ'D.
- 17 → DENOTES ST'D. EW-12 REQ'D.
- 18 → DENOTES UD-4 CONNECTION TO INLET
- 21 → DENOTES CURB CUT REQ'D. SEE DETAIL SHEET 2F(5)
- 22 → DENOTES 4'X4'X18" CLASS AI RIPRAP PROTECTION REQ'D.
- 24 → DENOTES 4' CONCRETE SIDEWALK REQ'D.

1 POT BEREA CHURCH RD. (RTE. 654), STA. 100+00.00
POT WARRENTON RD. (US 17), STA. 204+09.23
2 POT BEREA CHURCH RD. (RTE. 654), STA. 104+24.20
POT ENTRANCE 1, STA. 10+00.00
3 POT BEREA CHURCH RD. (RTE. 654), STA. 105+24.78
POT ENTRANCE 2, STA. 10+00.00

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
PROFILE	3A
ENTRANCE PROFILE	13B-13E
SIGNING & PAVE. MARKING	14

CURVE C1
PI = 102+71.32
DELTA = 16° 56' 47.23" (RT)
D = 7° 09' 43"
T = 119.18'
L = 236.62'
R = 800.00'
PC = 101+52.14
PT = 103+88.76
E = 3.8%
Lr = 79'

CURVE C2
PI = 106+73.76
DELTA = 6° 06' 04.14" (RT)
D = 2° 51' 53"
T = 106.59'
L = 212.97'
R = 2,000.00'
PC = 105+67.17
PT = 107+80.14
E = 2.6%
Lr = 54'

SCALE 0 25' 50'

PROJECT	SHEET NO.
0654-089-R09	3

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Cell Revised 12/11/12

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By Resolution of Highway Commission dated Oct. 13, 1966, amended May 11, 1967, amended Mar. 19, 2014

PROJECT MANAGER ALEX OWSIAK, P.E. (540) 658-4900 STAFFORD COUNTY PUBLIC WORKS
SURVEYED BY, DATE ATCS, P.L.C. (703) 430-7500, 10/6/2017
DESIGN BY THOMAS E. FLEMING, P.E., ATCS, P.L.C. (703) 430-7500
SUBSURFACE UTILITY BY, DATE ACCUMARK, INC. (804) 550-7740, 9/28/2017

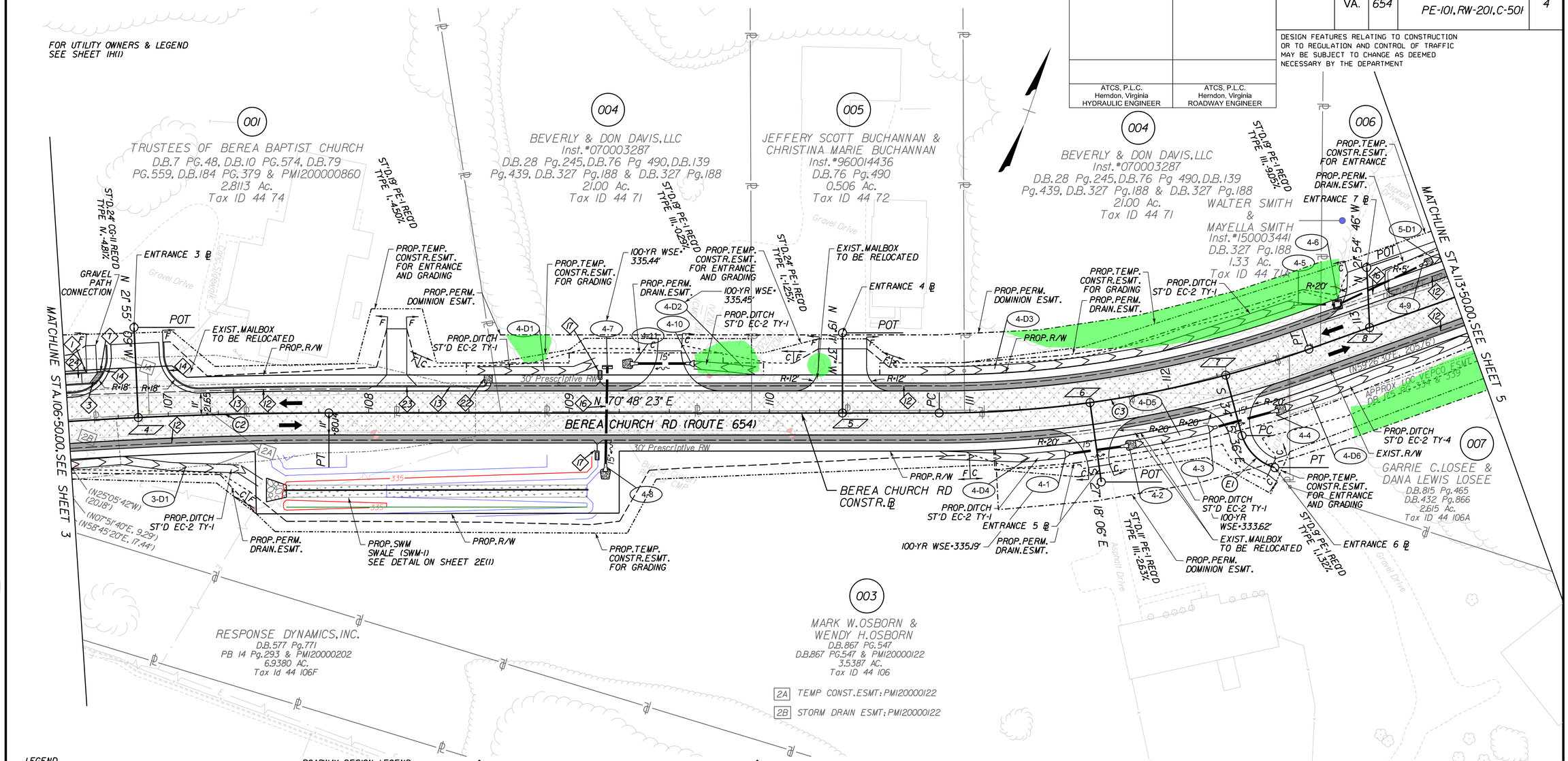
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	654	0654-089-R09 PE-101, RW-201, C-501	4

ATCS, P.L.C. Herndon, Virginia HYDRAULIC ENGINEER

ATCS, P.L.C. Herndon, Virginia ROADWAY ENGINEER

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

FOR UTILITY OWNERS & LEGEND SEE SHEET 1H(1)



LEGEND

- DENOTES FULL DEPTH PAVEMENT
- DENOTES MILL AND OVERLAY
- DENOTES DEMOLITION OF PAVEMENT
- DENOTES PAVED SHOULDER
- DENOTES PROPOSED TEMPORARY EASEMENTS
- DENOTES PROPOSED PERMANENT EASEMENTS
- DENOTES PROPOSED RIGHT OF WAY
- DENOTES EXISTING RIGHT OF WAY
- C — DENOTES CONSTRUCTION LIMITS IN CUTS
- F — DENOTES CONSTRUCTION LIMITS IN FILLS

ROADWAY DESIGN LEGEND

- 1 → DENOTES ST'D.CG-2 REQ'D.
- 3 → DENOTES ST'D.CG-12B REQ'D.
- 12 → DENOTES ST'D.UD-4 REQ'D.
- 13 → DENOTES ST'D CG-6 REQ'D.
- 14 → DENOTES RADIAL CG-6 REQ'D.
- 16 → DENOTES STR./PIPE TO BE REMOVED
- 17 → DENOTES ST'D.EW-12 REQ'D.
- 21 → DENOTES CURB CUT REQ'D. SEE DETAIL SHEET 2F(5)
- 22 → DENOTES 4'X4'X18" CLASS AI RIPRAP PROTECTION REQ'D.
- 23 → DENOTES ST'D CG-7 REQ'D.
- 24 → DENOTES 4' CONCRETE SIDEWALK REQ'D.

CURVE C2	CURVE C3	CURVE E1
PI = 106+73.76	PI = 111+79.63	PI = 10+44.15
DELTA = 6°06' 04.14" (RT)	DELTA = 19° 35' 47.38" (LT)	DELTA = 55° 23' 47.57" (LT)
D = 2° 51' 53"	D = 10° 25' 03"	D = 23.3' 14' 55"
T = 106.59'	T = 94.98'	T = 12.90'
L = 212.97'	L = 188.11'	L = 23.75'
R = 2,000.00'	R = 550.00'	R = 24.56'
PC = 105+67.17	PC = 110+84.64	PC = 10+31.25
PT = 107+80.14	PT = 112+72.76	PT = 10+55.00
E = 2.6%	E = 4.0%	
Lr = 54'	Lr = 83'	

TRAFFIC FLOW ARROW

NOTE:
1. NEW MAILBOX LOCATIONS TO BE COORDINATED WITH USPS AND PROPERTY OWNER. CONTRACTOR TO MAINTAIN ACCESS TO MAILBOXES AT ALL TIMES.

4	POC BEREA CHURCH RD. (RTE. 654), STA. 106+85.00 POT ENTRANCE 3, STA. 10+00.00
5	POT BEREA CHURCH RD. (RTE. 654), STA. 110+36.40 POT ENTRANCE 4, STA. 10+00.00
6	POC BEREA CHURCH RD. (RTE. 654), STA. 111+60.12 POT ENTRANCE 5, STA. 10+00.00
7	POC BEREA CHURCH RD. (RTE. 654), STA. 112+29.27 POT ENTRANCE 6, STA. 10+00.00
8	POT BEREA CHURCH RD. (RTE. 654), STA. 113+04.91 POT ENTRANCE 7, STA. 10+00.00

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
PROFILE	4A
ENTRANCE PROFILE	13B-13E
SIGNING & PAVE. MARKING	14

SCALE 0 25' 50'

PROJECT	SHEET NO.
0654-089-R09	4

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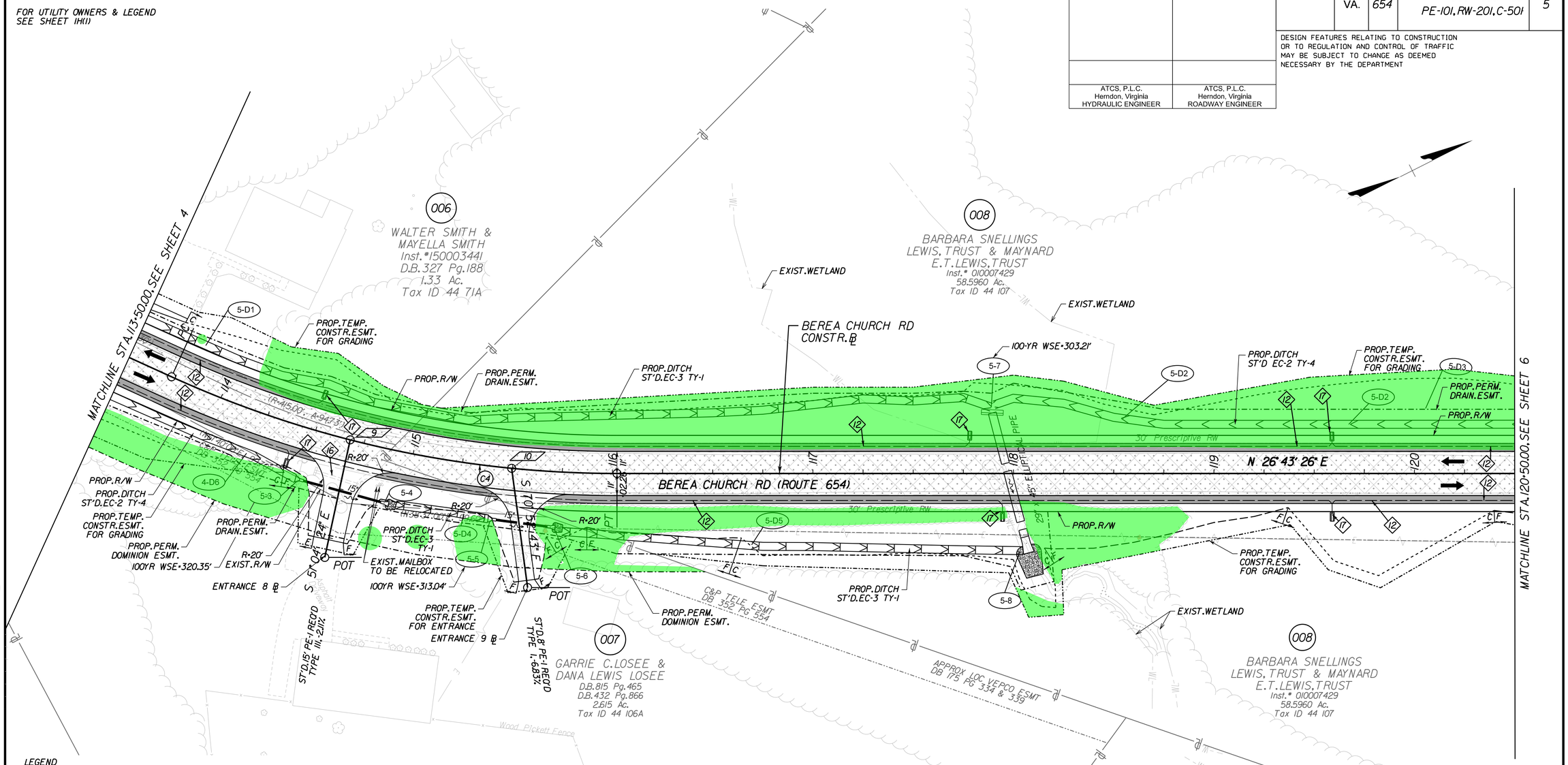
SURVEYED BY, DATE ATCS, P.L.C. (703) 430-7500, 10/6/2017
DESIGN BY THOMAS E. FLEMING, P.E. ATCS, P.L.C. (703) 430-7500
SUBSURFACE UTILITY BY, DATE ACCUMARK, INC. (804) 550-7740, 9/28/2017

FOR UTILITY OWNERS & LEGEND SEE SHEET 1H(1)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	654	0654-089-R09 PE-101, RW-201, C-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

ATCS, P.L.C. Herndon, Virginia HYDRAULIC ENGINEER	ATCS, P.L.C. Herndon, Virginia ROADWAY ENGINEER



LEGEND

- DENOTES FULL DEPTH PAVEMENT
- DENOTES MILL AND OVERLAY
- DENOTES DEMOLITION OF PAVEMENT
- DENOTES PAVED SHOULDER
- DENOTES PROPOSED TEMPORARY EASEMENTS
- DENOTES PROPOSED PERMANENT EASEMENTS
- DENOTES PROPOSED RIGHT OF WAY
- DENOTES EXISTING RIGHT OF WAY
- C — DENOTES CONSTRUCTION LIMITS IN CUTS
- F — DENOTES CONSTRUCTION LIMITS IN FILLS

CURVE C4
PI = 114+89.50
DELTA = 24° 29' 09.45" (LT)
D = 10° 41' 22"
T = 116.31'
L = 229.07'
R = 536.00'
PC = 113+73.19
PT = 116+02.26
E = 4.0%
Lr = 83'

NOTE: NEW MAILBOX LOCATIONS TO BE COORDINATED WITH USPS AND PROPERTY OWNER CONTRACTOR TO MAINTAIN ACCESS TO MAILBOXES AT ALL TIMES.

9 POC BEREA CHURCH RD. (RT.E.654), STA.114+67.79
POT ENTRANCE 8, STA.10+00.00

10 POC BEREA CHURCH RD. (RT.E.654), STA.115+49.64
POT ENTRANCE 9, STA.10+00.00

ROADWAY DESIGN LEGEND

- 12 → DENOTES ST'D.UD-4 REQ'D.
- 16 → DENOTES STR./PIPE TO BE REMOVED
- 17 → DENOTES ST'D.EW-12 REQ'D.

TRAFFIC FLOW ARROW

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
PROFILE	5A
ENTRANCE PROFILE	13B-13E
SIGNING & PAVE. MARKING	14

SCALE 0 25' 50'

PROJECT	SHEET NO.
0654-089-R09	5

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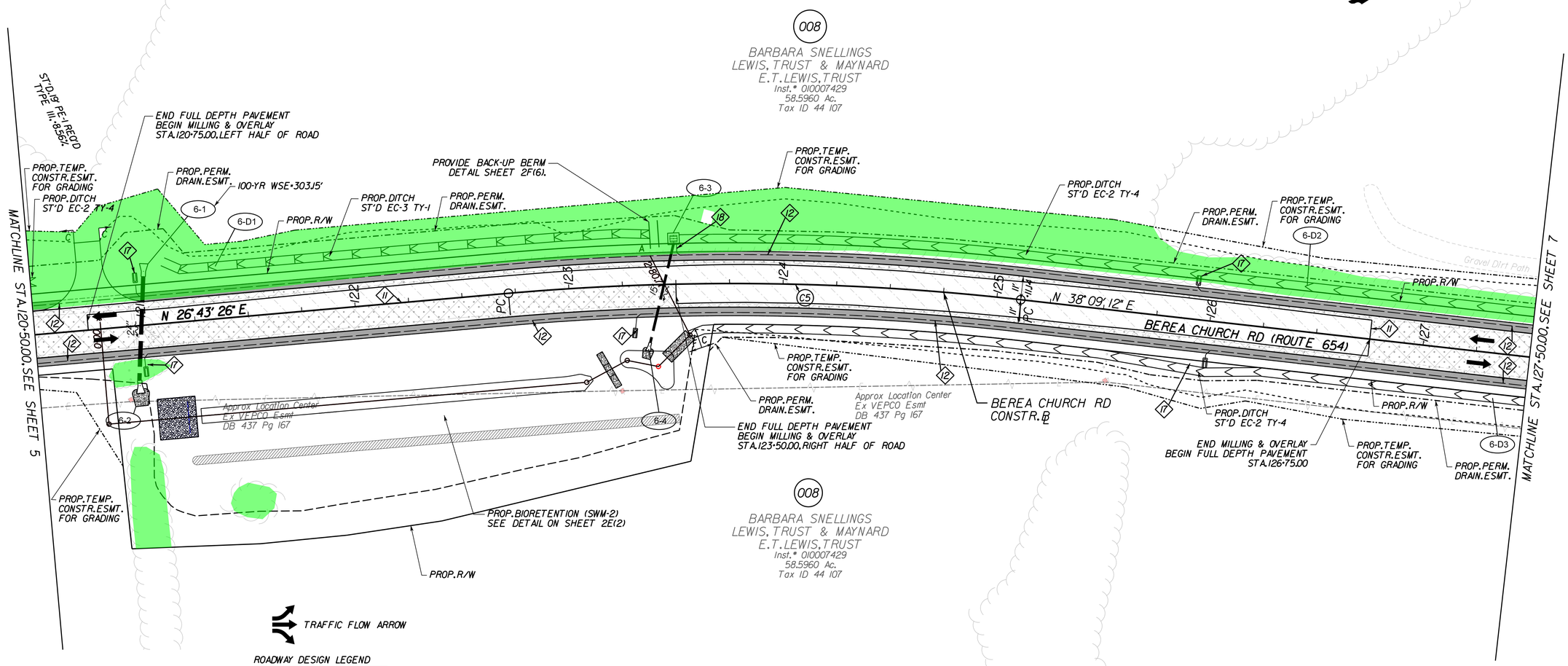
SUBSURFACE UTILITY BY, DATE ACCUMARK, INC. (804) 550-7740, 9/28/2017

FOR UTILITY OWNERS & LEGEND
SEE SHEET 1H(1)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	654	0654-089-R09 PE-101, RW-201, C-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

ATCS, P.L.C. Herndon, Virginia HYDRAULIC ENGINEER	ATCS, P.L.C. Herndon, Virginia ROADWAY ENGINEER



TRAFFIC FLOW ARROW

LEGEND

- DENOTES FULL DEPTH PAVEMENT
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ROADWAY DESIGN LEGEND

- 11 → DENOTES FULL DEPTH SAW CUT REQ'D.
- 12 → DENOTES ST'D. UD-4 REQ'D.
- 17 → DENOTES ST'D. EW-12 REQ'D.
- 18 → DENOTES UD-4 CONNECTION TO INLET

CURVE C5
PI = 123+91.85
DELTA = 11° 25' 45.81" (RT)
D = 4° 46' 29"
T = 120.09'
L = 239.38'
R = 1,200.00'
PC = 122+71.76
PT = 125+11.14
E = 3.2%
Lr = 67'

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
PROFILE	6A
ENTRANCE PROFILE	13B-13E
SIGNING & PAVE. MARKING	14

SCALE 0 25' 50'

PROJECT	SHEET NO.
0654-089-R09	6

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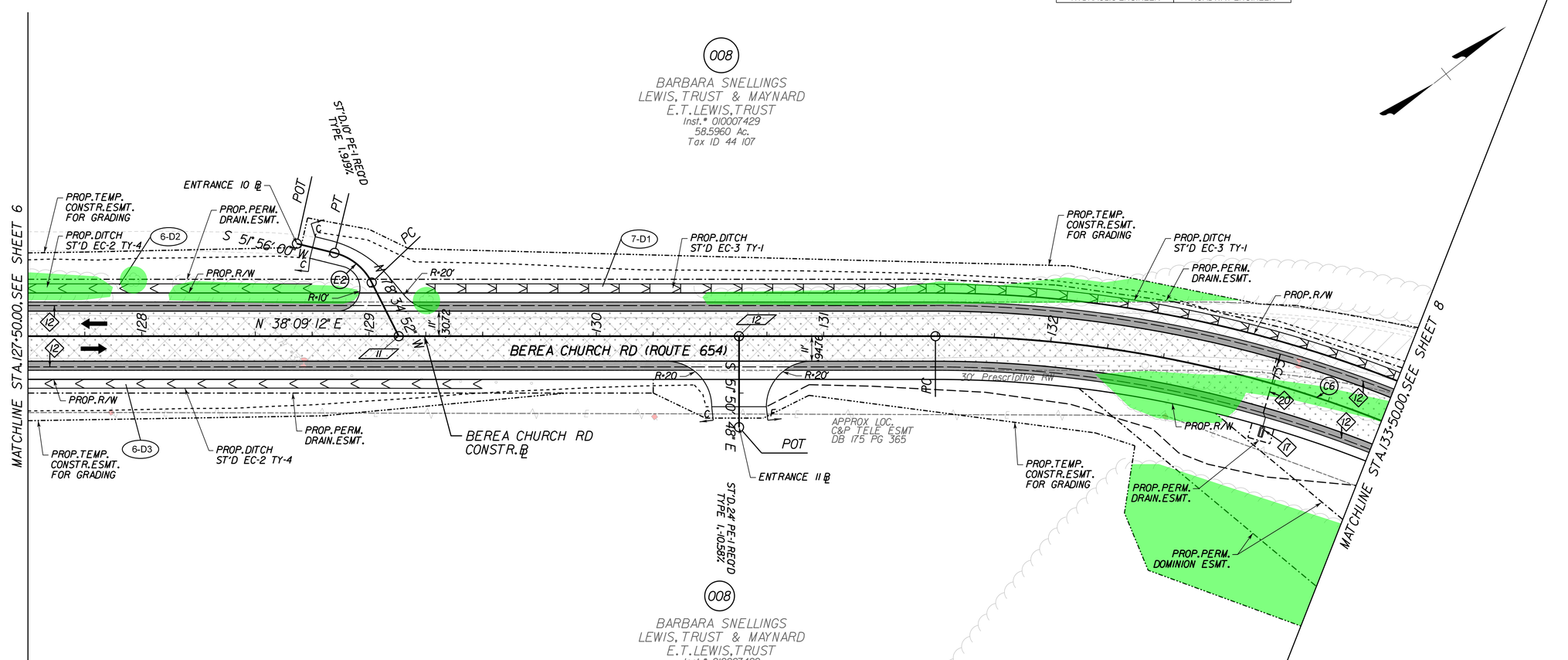
SUBSURFACE UTILITY BY, DATE ACCUMARK, INC. (804) 550-7740, 9/28/2017

FOR UTILITY OWNERS & LEGEND
SEE SHEET 1H(1)

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	654	0654-089-R09 PE-101, RW-201, C-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

ATCS, P.L.C. Herndon, Virginia HYDRAULIC ENGINEER	ATCS, P.L.C. Herndon, Virginia ROADWAY ENGINEER



TRAFFIC FLOW ARROW

LEGEND

- DENOTES OBSCURING OF PAVEMENT
- DENOTES FULL DEPTH PAVEMENT
- DENOTES MILL AND OVERLAY
- DENOTES DEMOLITION OF PAVEMENT
- DENOTES PAVED SHOULDER
- DENOTES PROPOSED TEMPORARY EASEMENTS
- DENOTES PROPOSED PERMANENT EASEMENTS
- DENOTES PROPOSED RIGHT OF WAY
- DENOTES EXISTING RIGHT OF WAY
- C — DENOTES CONSTRUCTION LIMITS IN CUTS
- F — DENOTES CONSTRUCTION LIMITS IN FILLS

ROADWAY DESIGN LEGEND

- 11 → DENOTES FULL DEPTH SAW CUT REQ'D.
- 12 → DENOTES ST'D. UD-4 REQ'D.
- 17 → DENOTES ST'D. EW-12 REQ'D.
- 20 → DENOTES ST'D CD-2 REQ'D.

CURVE C6
PI = 133+88.93
DELTA = 48° 12' 13.69" (RT)
D = 10° 41' 22"
T = 239.79'
L = 450.94'
R = 536.00'
PC = 131+49.14
PT = 136+00.09
E = 4.0%
Lr = 83'

CURVE E2
PI = 10+37.92
DELTA = 49° 29' 07.28" (LT)
D = 229° 10' 59"
T = 11.52'
L = 21.59'
R = 25.00'
PC = 10+26.40
PT = 10+48.00

11 POT BEREA CHURCH RD. (RTE. 654), STA. 129+13.07
POT ENTRANCE 10, STA. 10+00.00

12 POT BEREA CHURCH RD. (RTE. 654), STA. 130+62.75
POT ENTRANCE 11, STA. 10+00.00

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
PROFILE	7A
ENTRANCE PROFILE	13B-13E
SIGNING & PAVE. MARKING	14

SCALE 0 25' 50'

PROJECT	SHEET NO.
0654-089-R09	7

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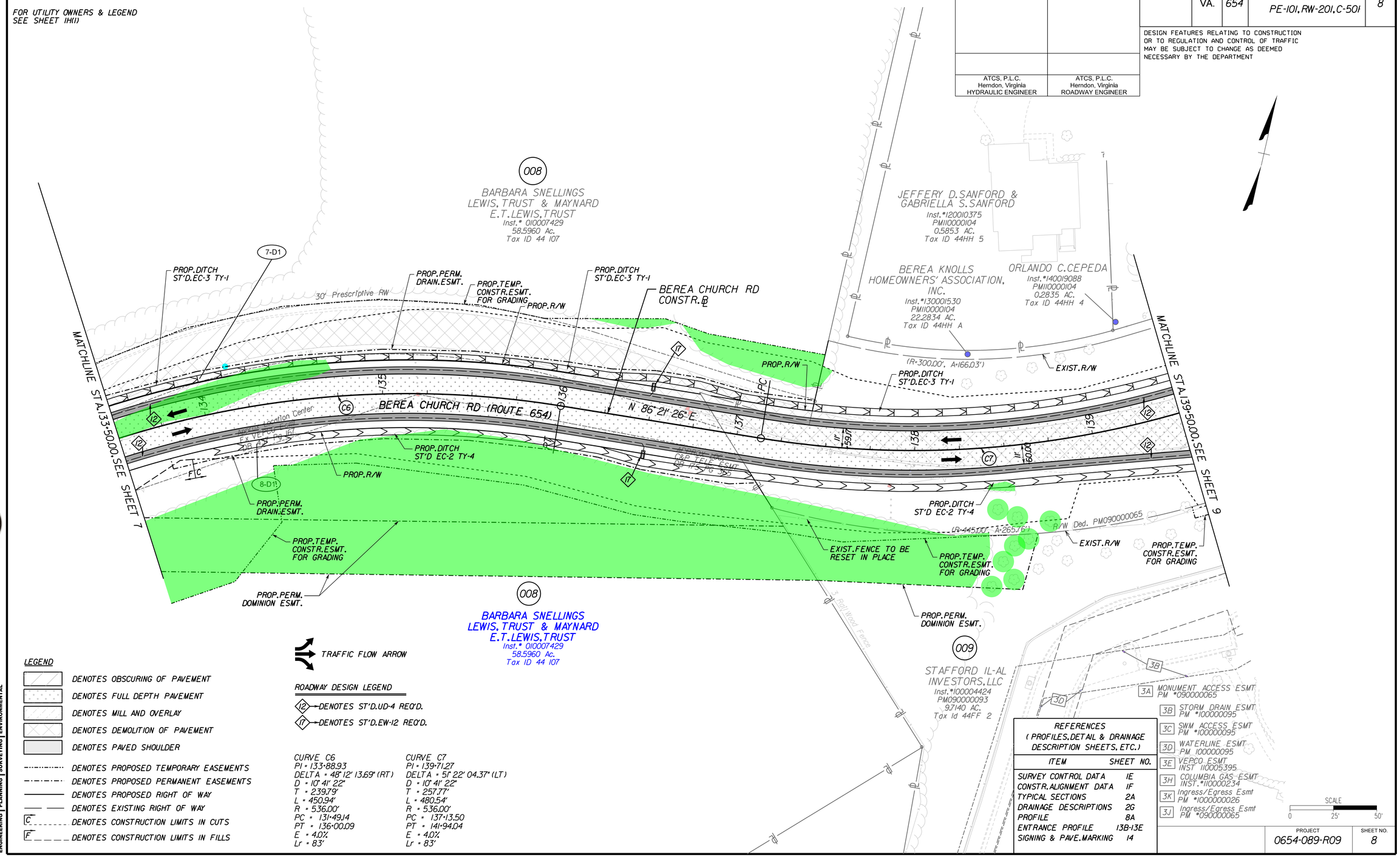
FOR UTILITY OWNERS & LEGEND
SEE SHEET 1H(1)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	654	0654-089-R09 PE-101, RW-201, C-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

ATCS, P.L.C.
Herndon, Virginia
HYDRAULIC ENGINEER

ATCS, P.L.C.
Herndon, Virginia
ROADWAY ENGINEER



LEGEND

- DENOTES OBSCURING OF PAVEMENT
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- C — DENOTES CONSTRUCTION LIMITS IN CUTS
- F — DENOTES CONSTRUCTION LIMITS IN FILLS

TRAFFIC FLOW ARROW

ROADWAY DESIGN LEGEND

- 12 — DENOTES ST'D.UD-4 REQ'D.
- 17 — DENOTES ST'D.EW-12 REQ'D.

CURVE C6
PI = 133+88.93
DELTA = 48° 12' 13.69" (RT)
D = 10° 41' 22"
T = 239.79'
L = 450.94'
R = 536.00'
PC = 131+49.14
PT = 136+00.09
E = 4.0%
Lr = 83'

CURVE C7
PI = 139+71.27
DELTA = 51° 22' 04.37" (LT)
D = 10° 41' 22"
T = 257.77'
L = 480.54'
R = 536.00'
PC = 137+13.50
PT = 141+94.04
E = 4.0%
Lr = 83'

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
PROFILE	8A
ENTRANCE PROFILE	13B-13E
SIGNING & PAVE. MARKING	14

PROJECT	SHEET NO.
0654-089-R09	8

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Cell Revised 12/11/12

7/19/2022
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Plotted By: nklm

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REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	654	0654-089-R09 PE-101, RW-201, C-501	9

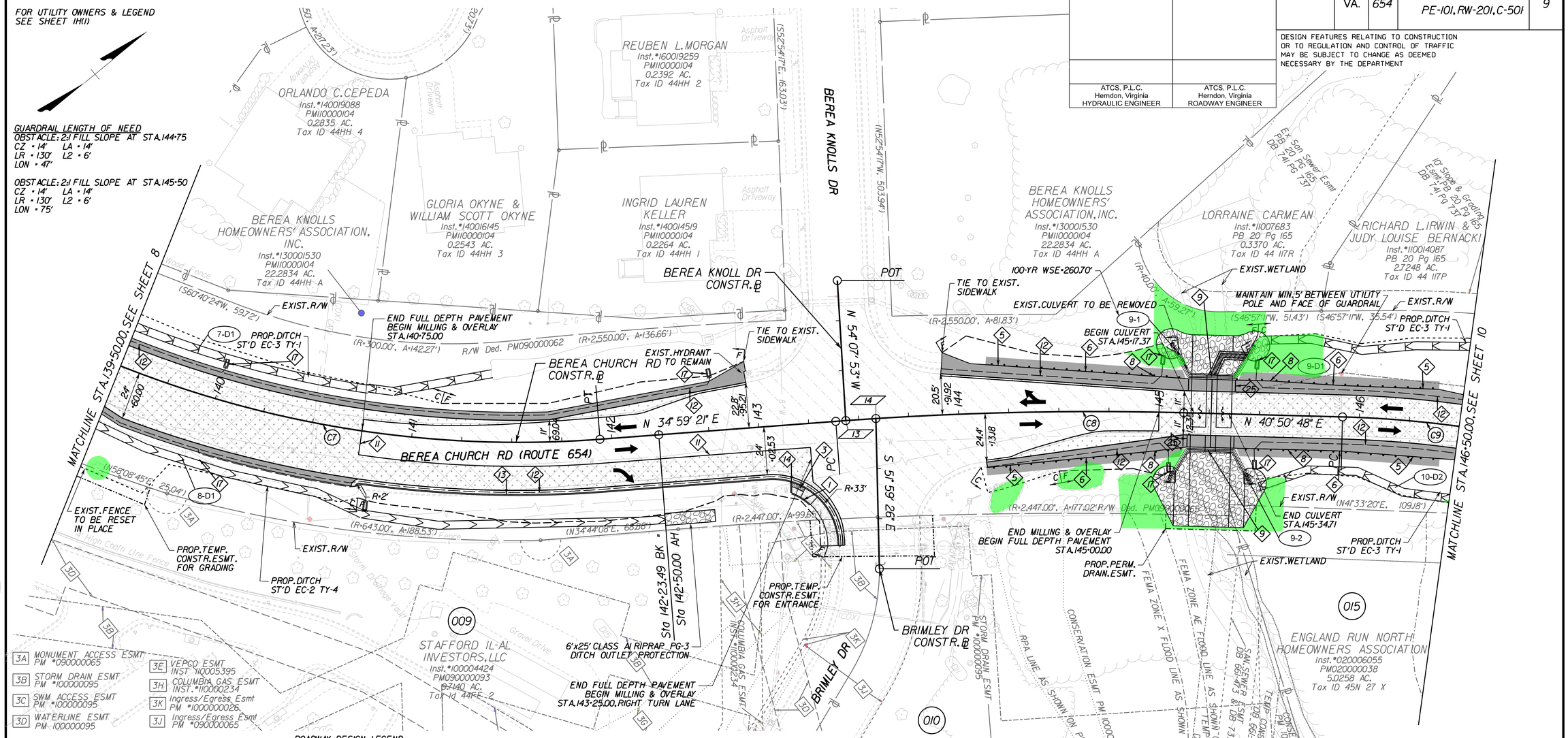
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ATCS, P.L.C. Herndon, Virginia HYDRAULIC ENGINEER	ATCS, P.L.C. Herndon, Virginia ROADWAY ENGINEER

FOR UTILITY OWNERS & LEGEND SEE SHEET 1H(1)

GUARDRAIL LENGTH OF NEED
OBSTACLE: 2:1 FILL SLOPE AT STA.144+75
CZ = 14' LA = 14'
LR = 130' L2 = 6'
LON = 47'

OBSTACLE: 2:1 FILL SLOPE AT STA.145+50
CZ = 14' LA = 14'
LR = 130' L2 = 6'
LON = 75'



LEGEND

- DENOTES FULL DEPTH PAVEMENT
- DENOTES MILL AND OVERLAY
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- C — DENOTES CONSTRUCTION LIMITS IN CUTS
- F — DENOTES CONSTRUCTION LIMITS IN FILLS

ROADWAY DESIGN LEGEND

- 1 → DENOTES ST'D. CG-2 REQ'D.
- 3 → DENOTES ST'D CG-12B REQ'D.
- 5 → DENOTES ST'D. GR-MGS2 REQ'D.
- 6 → DENOTES ST'D. GR-MGS4 REQ'D.
- 8 → DENOTES ST'D. GR-FOA-2 (TY. I) REQ'D.
- 9 → DENOTES ST'D. MB-7F REQ'D.
- 11 → DENOTES FULL DEPTH SAW CUT REQ'D.
- 12 → DENOTES ST'D. UD-4 REQ'D.
- 13 → DENOTES ST'D CG-6 REQ'D.
- 14 → DENOTES RADIAL CG-6 REQ'D.
- 17 → DENOTES ST'D. EW-12 REQ'D.
- 25 → DENOTES MOMENT SLAB REQ'D.

TRAFFIC FLOW ARROW

CURVE C7	CURVE C8	CURVE C9
PI = 139+71.27	PI = 144+25.53	PI = 147+51.31
DELTA = 51° 22' 04.37" (LT)	DELTA = 5° 51' 26.64" (RT)	DELTA = 33° 11' 17.49" (RT)
D = 10° 41' 22"	D = 3° 22' 13"	D = 10° 41' 22"
T = 257.77'	T = 86.97'	T = 159.73'
L = 480.54'	L = 173.79'	L = 310.47'
R = 536.00'	R = 1,700.00'	R = 536.00'
PC = 137+13.50	PC = 143+38.55	PC = 145+91.58
PT = 141+94.04	PT = 145+12.35	PT = 149+02.06
e = 4.0%	e = 2.8%	e = 4.0%
Lr = 83'	Lr = 58'	Lr = 83'

13 POC BEREA CHURCH RD. (RTE. 654), STA. 143+43.58
POT BEREA KNOLL DR. STA. 10+00.00

14 POC BEREA CHURCH RD. (RTE. 654), STA. 143+58.62
POT BRIMLEY DR. STA. 10+00.00

NOTE:
1. NEW MAILBOX LOCATIONS TO BE COORDINATED WITH USPS AND PROPERTY OWNER CONTRACTOR TO MAINTAIN ACCESS TO MAILBOXES AT ALL TIMES.
2. CONTRACTOR SHALL CONTACT VDOT DISTRICT TRAFFIC ENGINEER FOR FIELD REVIEW OF PROPOSED SITE PREPARATION PRIOR TO INSTALLATION OF PROPOSED GUARDRAIL
3. CONTRACTOR SHALL INSTALL GUARDRAIL POSTS TO AVOID THE PROPOSED DRAINAGE STRUCTURES

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
CULVERT DETAILS	2F(1)-2F(5)
PROFILE	9A
SIGNING & PAVE. MARKING	14
ENTRANCE PROFILE	13B-13E

SCALE 0 25' 50'

PROJECT	SHEET NO.
0654-089-R09	9

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Cell Revised 12/11/12

By Resolution of Highway Commission dated Oct. 13, 1966, amended May 11, 1967, amended Mar. 19, 2014

PROJECT MANAGER ALEX OWSIAK, P.E. (540) 658-4900 STAFFORD COUNTY PUBLIC WORKS
SURVEYED BY, DATE ATCS, P.L.C. (703) 430-7500, 10/6/2017
DESIGN BY THOMAS E. FLEMING, P.E., ATCS, P.L.C. (703) 430-7500
SUBSURFACE UTILITY BY, DATE ACCUMARK, INC. (804) 550-7740, 9/28/2017

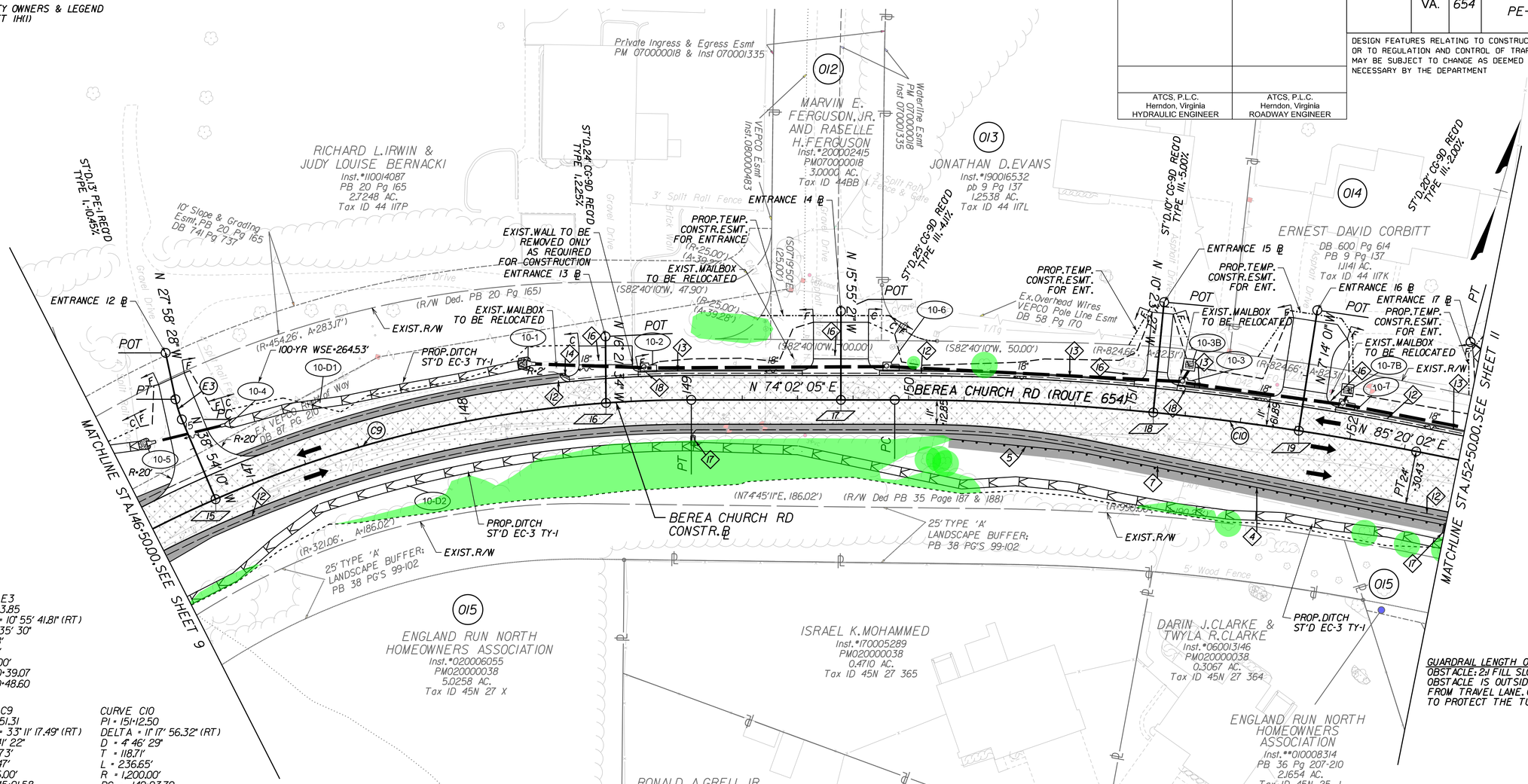
FOR UTILITY OWNERS & LEGEND SEE SHEET 1H(1)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	654	0654-089-R09 PE-101, RW-201, C-501	10

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

ATCS, P.L.C. Herndon, Virginia HYDRAULIC ENGINEER

ATCS, P.L.C. Herndon, Virginia ROADWAY ENGINEER



CURVE E3
PI = 10+43.85
DELTA = 10° 55' 41.81" (RT)
D = 114° 35' 30"
T = 4.78'
L = 9.54'
R = 50.00'
PC = 10+39.07
PT = 10+48.60

CURVE C9
PI = 147+51.31
DELTA = 33° 11' 17.49" (RT)
D = 10° 41' 22"
T = 159.73'
L = 310.47'
R = 536.00'
PC = 145+91.58
PT = 149+02.06
E = 4.0%
Lr = 83'

CURVE C10
PI = 151+12.50
DELTA = 11° 17' 56.32" (RT)
D = 4° 46' 29"
T = 118.71'
L = 236.65'
R = 1,200.00'
PC = 149+93.79
PT = 152+30.43
E = 3.2%
Lr = 67'

GUARDRAIL LENGTH OF NEED
OBSTACLE: 2:1 FILL SLOPE AT STA. 150+50
OBSTACLE IS OUTSIDE 14' CLEAR ZONE FROM TRAVEL LANE. GUARDRAIL IS PROPOSED TO PROTECT THE TURN LANE TRAFFIC.

LEGEND

- DENOTES FULL DEPTH PAVEMENT
- DENOTES MILL AND OVERLAY
- DENOTES DEMOLITION OF PAVEMENT
- DENOTES PAVED SHOULDER
- DENOTES PROPOSED TEMPORARY EASEMENTS
- DENOTES PROPOSED PERMANENT EASEMENTS
- DENOTES PROPOSED RIGHT OF WAY
- DENOTES EXISTING RIGHT OF WAY
- C — DENOTES CONSTRUCTION LIMITS IN CUTS
- F — DENOTES CONSTRUCTION LIMITS IN FILLS

TRAFFIC FLOW ARROW

ROADWAY DESIGN LEGEND

- 4 → DENOTES ST'D.GR-MGS1 REQ'D.
- 5 → DENOTES ST'D.GR-MGS2 REQ'D.
- 7 → DENOTES REMOVE EXIST.GUARDRAIL
- 12 → DENOTES ST'D.UD-4 REQ'D.
- 13 → DENOTES ST'D CG-6 REQ'D.
- 14 → DENOTES RADIAL CG-6 REQ'D.
- 16 → DENOTES STR./PIPE TO BE REMOVED
- 17 → DENOTES ST'D.EW-12 REQ'D.
- 18 → DENOTES UD-4 CONNECTION TO INLET

NOTE:
1. NEW MAILBOX LOCATIONS TO BE COORDINATED WITH USPS AND PROPERTY OWNER CONTRACTOR TO MAINTAIN ACCESS TO MAILBOXES AT ALL TIMES.
2. CONTRACTOR SHALL CONTACT VDOT DISTRICT TRAFFIC ENGINEER FOR FIELD REVIEW OF PROPOSED SITE PREPARATION PRIOR TO INSTALLATION OF PROPOSED GUARDRAIL
3. CONTRACTOR SHALL INSTALL GUARDRAIL POSTS TO AVOID THE PROPOSED DRAINAGE STRUCTURES

15 POC BEREA CHURCH RD. (RTE. 654), STA. 146+81.38
POT ENTRANCE 12, STA. 10+00.00
16 POC BEREA CHURCH RD. (RTE. 654), STA. 148+63.53
POT ENTRANCE 13, STA. 10+00.00
17 POT BEREA CHURCH RD. (RTE. 654), STA. 149+69.53
POT ENTRANCE 14, STA. 10+00.00
18 POC BEREA CHURCH RD. (RTE. 654), STA. 151+10.55
POT ENTRANCE 15, STA. 10+00.00
19 POC BEREA CHURCH RD. (RTE. 654), STA. 151+76.66
POT ENTRANCE 16, STA. 10+00.00

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
PROFILE	10A
ENTRANCE PROFILE	13B-13E
SIGNING & PAVE. MARKING	14

SCALE 0 25' 50'

PROJECT	SHEET NO.
0654-089-R09	10

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By Resolution of Highway Commission dated Oct. 13, 1966, amended May 11, 1967, amended Mar. 19, 2014

PROJECT MANAGER ALEX OWSIAK, P.E. (540) 658-4900 STAFFORD COUNTY PUBLIC WORKS
SURVEYED BY, DATE ATCS, P.L.C. (703) 430-7500, 10/6/2017
DESIGN BY THOMAS E. FLEMING, P.E. ATCS, P.L.C. (703) 430-7500
SUBSURFACE UTILITY BY, DATE ACCUMARK, INC. (804) 550-7740, 9/28/2017

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	654	0654-089-R09 PE-101, RW-201, C-501	11

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

ATCS, P.L.C. Herndon, Virginia HYDRAULIC ENGINEER

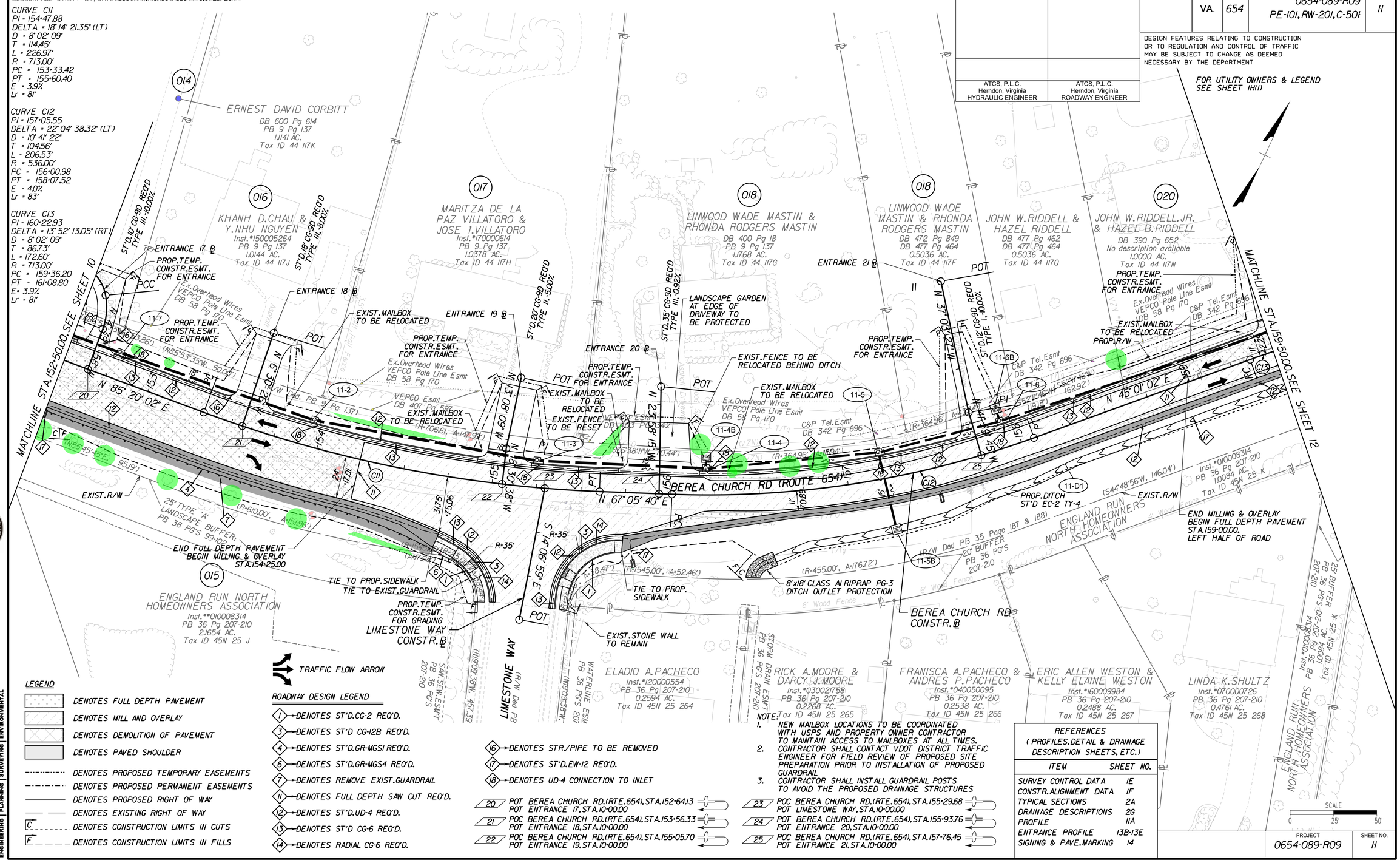
ATCS, P.L.C. Herndon, Virginia ROADWAY ENGINEER

FOR UTILITY OWNERS & LEGEND SEE SHEET 1H(1)

CURVE C11
PI = 154+47.88
DELTA = 18° 14' 21.35" (LT)
D = 8° 02' 09"
T = 114.45'
L = 226.97'
R = 713.00'
PC = 153+33.42
PT = 155+60.40
E = 3.9%
Lr = 81'

CURVE C12
PI = 157+05.55
DELTA = 22° 04' 38.32" (LT)
D = 10° 41' 22"
T = 104.56'
L = 206.53'
R = 536.00'
PC = 156+00.98
PT = 158+07.52
E = 4.0%
Lr = 83'

CURVE C13
PI = 160+22.93
DELTA = 13° 52' 13.05" (RT)
D = 8° 02' 09"
T = 86.73'
L = 172.60'
R = 713.00'
PC = 159+36.20
PT = 161+08.80
E = 3.9%
Lr = 81'



LEGEND

- DENOTES FULL DEPTH PAVEMENT
- DENOTES MILL AND OVERLAY
- DENOTES DEMOLITION OF PAVEMENT
- DENOTES PAVED SHOULDER
- DENOTES PROPOSED TEMPORARY EASEMENTS
- DENOTES PROPOSED PERMANENT EASEMENTS
- DENOTES PROPOSED RIGHT OF WAY
- DENOTES EXISTING RIGHT OF WAY
- C — DENOTES CONSTRUCTION LIMITS IN CUTS
- F — DENOTES CONSTRUCTION LIMITS IN FILLS

TRAFFIC FLOW ARROW

ROADWAY DESIGN LEGEND

- 1 → DENOTES ST'D.CG-2 REQ'D.
- 3 → DENOTES ST'D CG-12B REQ'D.
- 4 → DENOTES ST'D.GR-MGS1 REQ'D.
- 6 → DENOTES ST'D.GR-MGS4 REQ'D.
- 7 → DENOTES REMOVE EXIST.GUARDRAIL
- 11 → DENOTES FULL DEPTH SAW CUT REQ'D.
- 12 → DENOTES ST'D.UD-4 REQ'D.
- 13 → DENOTES ST'D CG-6 REQ'D.
- 14 → DENOTES RADIAL CG-6 REQ'D.
- 16 → DENOTES STR./PIPE TO BE REMOVED
- 17 → DENOTES ST'D.EW-12 REQ'D.
- 18 → DENOTES UD-4 CONNECTION TO INLET

20 POT BEREA CHURCH RD.(RTE.654), STA.152+64.13 POT ENTRANCE 17, STA.10+00.00
21 POC BEREA CHURCH RD.(RTE.654), STA.153+56.33 POT ENTRANCE 18, STA.10+00.00
22 POC BEREA CHURCH RD.(RTE.654), STA.155+05.70 POT ENTRANCE 19, STA.10+00.00
23 POC BEREA CHURCH RD.(RTE.654), STA.155+29.68 POT LIMESTONE WAY, STA.10+00.00
24 POT BEREA CHURCH RD.(RTE.654), STA.155+93.76 POT ENTRANCE 20, STA.10+00.00
25 POC BEREA CHURCH RD.(RTE.654), STA.157+76.45 POT ENTRANCE 21, STA.10+00.00

NOTE:
1. NEW MAILBOX LOCATIONS TO BE COORDINATED WITH USPS AND PROPERTY OWNER CONTRACTOR TO MAINTAIN ACCESS TO MAILBOXES AT ALL TIMES.
2. CONTRACTOR SHALL CONTACT VDOT DISTRICT TRAFFIC ENGINEER FOR FIELD REVIEW OF PROPOSED SITE PREPARATION PRIOR TO INSTALLATION OF PROPOSED GUARDRAIL
3. CONTRACTOR SHALL INSTALL GUARDRAIL POSTS TO AVOID THE PROPOSED DRAINAGE STRUCTURES

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
PROFILE	11A
ENTRANCE PROFILE	13B-13E
SIGNING & PAVE. MARKING	14

PROJECT	SHEET NO.
0654-089-R09	11

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By Resolution of Highway Commission dated Oct. 13, 1966, amended May 11, 1967, amended Mar. 19, 2014

PROJECT MANAGER ALEX OWSIAK, P.E. (540) 658-4900 STAFFORD COUNTY PUBLIC WORKS
SURVEYED BY, DATE ATCS, P.L.C. (703) 430-7500, 10/6/2017
DESIGN BY THOMAS E. FLEMING, P.E., ATCS, P.L.C. (703) 430-7500
SUBSURFACE UTILITY BY, DATE ACCUMARK, INC. (804) 550-7740, 9/28/2017

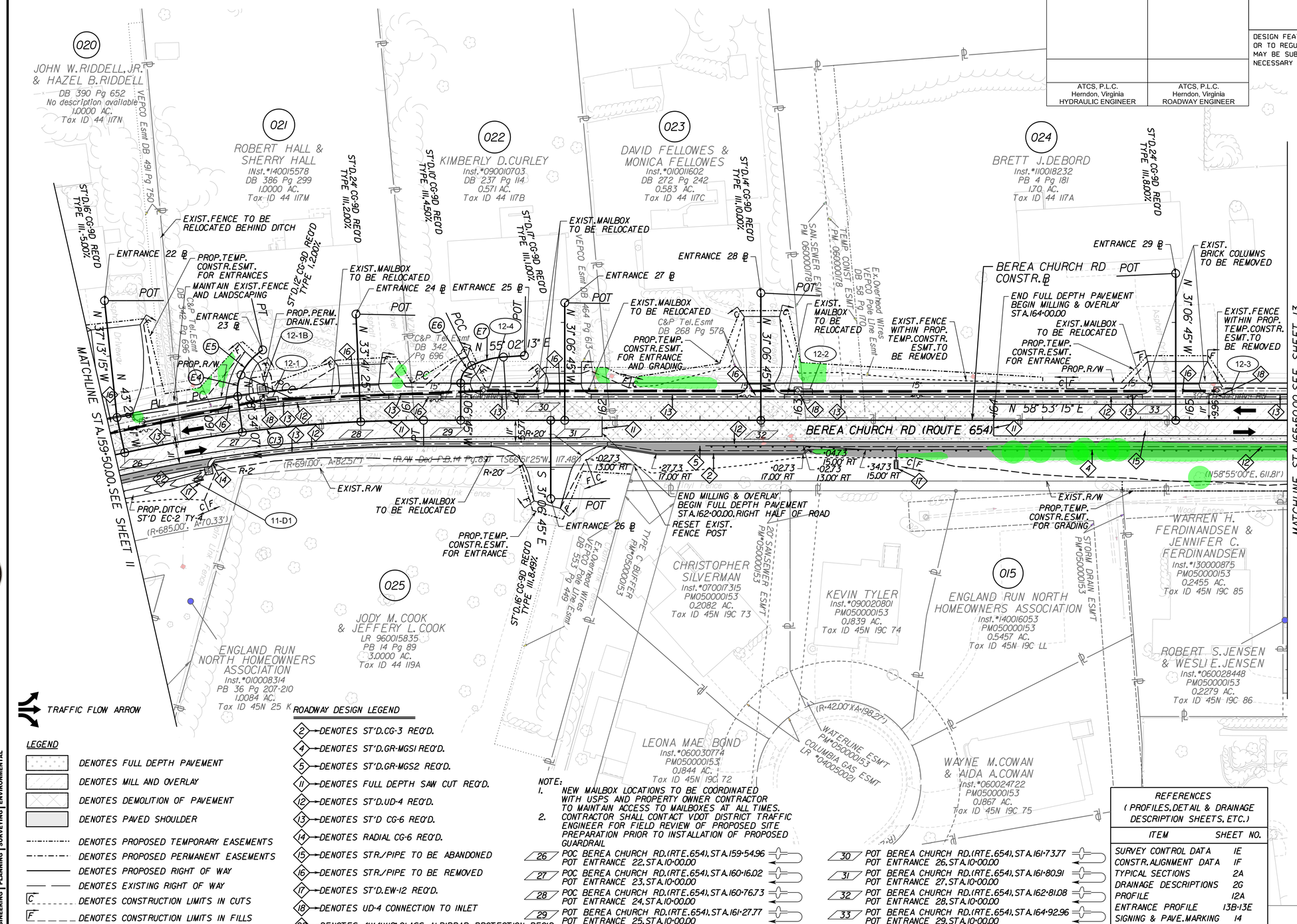
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	654	0654-089-R09 PE-101, RW-201, C-501	12

ATCS, P.L.C. Herndon, Virginia HYDRAULIC ENGINEER

ATCS, P.L.C. Herndon, Virginia ROADWAY ENGINEER

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

FOR UTILITY OWNERS & LEGEND SEE SHEET 1H(1)



GUARDRAIL LENGTH OF NEED
OBSTACLE: 2:1 FILL SLOPE AT STA.163+80
CZ = 14' LA = 14'
LR = 130' L2 = 2'
LON = 112'

CURVE C13
PI = 160+22.93
DELTA = 13° 52' 13.05" (RT)
D = 8° 02' 09"
T = 86.73'
L = 172.60'
R = 713.00'
PC = 159+36.20
PT = 161+08.80
E = 3.9%
Lr = 81'

Curve E4
PI = 10+24.18
DELTA = 32° 10' 10.95" (RT)
D = 286° 28' 44"
T = 5.77'
L = 11.23'
R = 20.00'
PC = 10+18.42
PCC = 10+29.65

Curve E5
PI = 10+38.46
DELTA = 32° 43' 52.49" (RT)
D = 190° 59' 09"
T = 8.81'
L = 17.14'
R = 30.00'
PCC = 10+29.65
PT = 10+46.78

Curve E6
PI = 10+25.25
DELTA = 63° 57' 57.47" (RT)
D = 572° 57' 28"
T = 6.24'
L = 11.16'
R = 10.00'
PC = 10+19.01
PCC = 10+30.17

Curve E7
PI = 10+38.72
DELTA = 22° 11' 00.51" (RT)
D = 131° 21' 19"
T = 8.55'
L = 16.89'
R = 43.62'
PCC = 10+30.17
PT = 10+47.06

TRAFFIC FLOW ARROW

LEGEND

- DENOTES FULL DEPTH PAVEMENT
- DENOTES MILL AND OVERLAY
- DENOTES DEMOLITION OF PAVEMENT
- DENOTES PAVED SHOULDER
- DENOTES PROPOSED TEMPORARY EASEMENTS
- DENOTES PROPOSED PERMANENT EASEMENTS
- DENOTES PROPOSED RIGHT OF WAY
- DENOTES EXISTING RIGHT OF WAY
- C — DENOTES CONSTRUCTION LIMITS IN CUTS
- F — DENOTES CONSTRUCTION LIMITS IN FILLS

ROADWAY DESIGN LEGEND

- 2 → DENOTES ST'D.CG-3 REQ'D.
- 4 → DENOTES ST'D.GR-MGS1 REQ'D.
- 5 → DENOTES ST'D.GR-MGS2 REQ'D.
- 11 → DENOTES FULL DEPTH SAW CUT REQ'D.
- 12 → DENOTES ST'D.UD-4 REQ'D.
- 13 → DENOTES ST'D CG-6 REQ'D.
- 14 → DENOTES RADIAL CG-6 REQ'D.
- 15 → DENOTES STR./PIPE TO BE ABANDONED
- 16 → DENOTES STR./PIPE TO BE REMOVED
- 17 → DENOTES ST'D.EW-12 REQ'D.
- 18 → DENOTES UD-4 CONNECTION TO INLET
- 22 → DENOTES 4'X4'X18" CLASS AI RIPRAP PROTECTION REQ'D.

NOTE:
1. NEW MAILBOX LOCATIONS TO BE COORDINATED WITH USPS AND PROPERTY OWNER CONTRACTOR TO MAINTAIN ACCESS TO MAILBOXES AT ALL TIMES.
2. CONTRACTOR SHALL CONTACT VDOT DISTRICT TRAFFIC ENGINEER FOR FIELD REVIEW OF PROPOSED SITE PREPARATION PRIOR TO INSTALLATION OF PROPOSED GUARDRAIL

26	POC BEREA CHURCH RD. (RTE. 654), STA. 159+54.96	POT ENTRANCE 22, STA. 10+00.00
27	POC BEREA CHURCH RD. (RTE. 654), STA. 160+16.02	POT ENTRANCE 23, STA. 10+00.00
28	POC BEREA CHURCH RD. (RTE. 654), STA. 160+76.73	POT ENTRANCE 24, STA. 10+00.00
29	POC BEREA CHURCH RD. (RTE. 654), STA. 161+27.77	POT ENTRANCE 25, STA. 10+00.00
30	POT BEREA CHURCH RD. (RTE. 654), STA. 161+73.77	POT ENTRANCE 26, STA. 10+00.00
31	POT BEREA CHURCH RD. (RTE. 654), STA. 161+80.91	POT ENTRANCE 27, STA. 10+00.00
32	POT BEREA CHURCH RD. (RTE. 654), STA. 162+81.08	POT ENTRANCE 28, STA. 10+00.00
33	POT BEREA CHURCH RD. (RTE. 654), STA. 164+92.96	POT ENTRANCE 29, STA. 10+00.00

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
PROFILE	12A
ENTRANCE PROFILE	13B-13E
SIGNING & PAVE. MARKING	14

SCALE 0 25' 50'

PROJECT	SHEET NO.
0654-089-R09	12

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By Resolution of Highway Commission dated Oct. 13, 1966, amended May 11, 1967, amended Mar. 19, 2014

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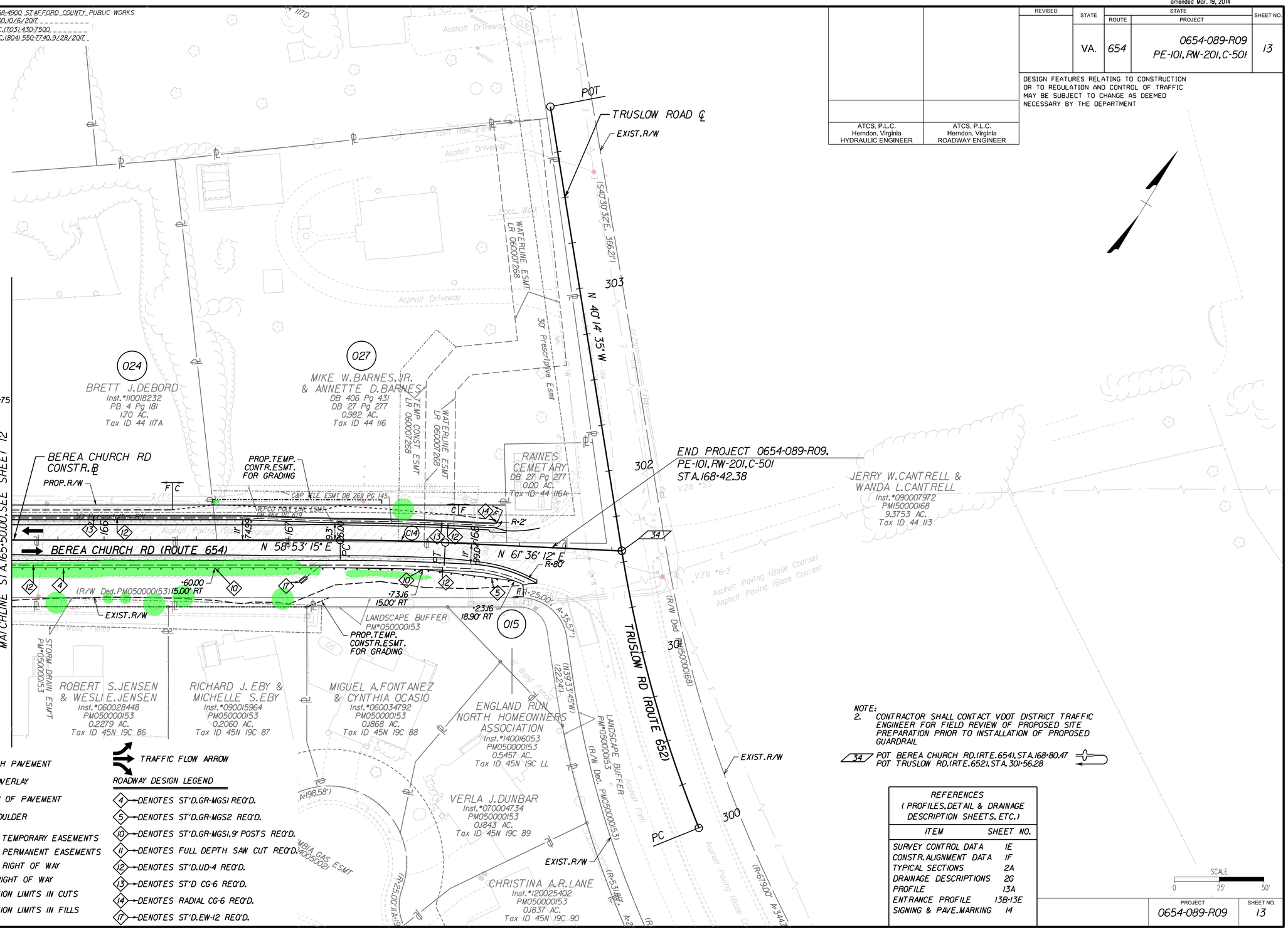
DESIGN BY THOMAS E. FLEMING, P.E., ATCS, P.L.C. (703) 430-7500
SUBSURFACE UTILITY BY, DATE ACCUMARK, INC. (804) 550-7740, 9/28/2017

FOR UTILITY OWNERS & LEGEND SEE SHEET 1H(1)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	654	0654-089-R09 PE-101, RW-201, C-501	13

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

ATCS, P.L.C. Herndon, Virginia HYDRAULIC ENGINEER	ATCS, P.L.C. Herndon, Virginia ROADWAY ENGINEER



CURVE C14
PI = 167+56.32
DELTA = 2° 42' 57.08" (RT)
D = 4° 46' 29"
T = 28.45'
L = 56.88'
R = 1,200.00'
PC = 167+27.87
PT = 167+84.75
E = 3.2%
Lr = 67'

GUARDRAIL LENGTH OF NEED
OBSTACLE: 2:1 FILL SLOPE AT STA.167+75
OBSTACLE IS OUTSIDE
14' CLEAR ZONE OF OPPOSING TRAFFIC

LEGEND

- DENOTES FULL DEPTH PAVEMENT
- DENOTES MILL AND OVERLAY
- DENOTES DEMOLITION OF PAVEMENT
- DENOTES PAVED SHOULDER
- DENOTES PROPOSED TEMPORARY EASEMENTS
- DENOTES PROPOSED PERMANENT EASEMENTS
- DENOTES PROPOSED RIGHT OF WAY
- DENOTES EXISTING RIGHT OF WAY
- C — DENOTES CONSTRUCTION LIMITS IN CUTS
- F — DENOTES CONSTRUCTION LIMITS IN FILLS
- TRAFFIC FLOW ARROW

ROADWAY DESIGN LEGEND

- 4 → DENOTES ST'D. GR-MGS1 REQ'D.
- 5 → DENOTES ST'D. GR-MGS2 REQ'D.
- 10 → DENOTES ST'D. GR-MGS1, 9' POSTS REQ'D.
- 11 → DENOTES FULL DEPTH SAW CUT REQ'D.
- 12 → DENOTES ST'D. UD-4 REQ'D.
- 13 → DENOTES ST'D CG-6 REQ'D.
- 14 → DENOTES RADIAL CG-6 REQ'D.
- 17 → DENOTES ST'D. EW-12 REQ'D.

NOTE:
2. CONTRACTOR SHALL CONTACT VDOT DISTRICT TRAFFIC ENGINEER FOR FIELD REVIEW OF PROPOSED SITE PREPARATION PRIOR TO INSTALLATION OF PROPOSED GUARDRAIL

34 POT BEREA CHURCH RD. (RTE. 654), STA. 168+80.47
POT TRUSLOW RD. (RTE. 652), STA. 301+56.28

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

ITEM	SHEET NO.
SURVEY CONTROL DATA	1E
CONSTR. ALIGNMENT DATA	1F
TYPICAL SECTIONS	2A
DRAINAGE DESCRIPTIONS	2G
PROFILE	13A
ENTRANCE PROFILE	13B-13E
SIGNING & PAVE. MARKING	14

SCALE 0 25' 50'

PROJECT	SHEET NO.
0654-089-R09	13

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Cell Revised 12/11/12