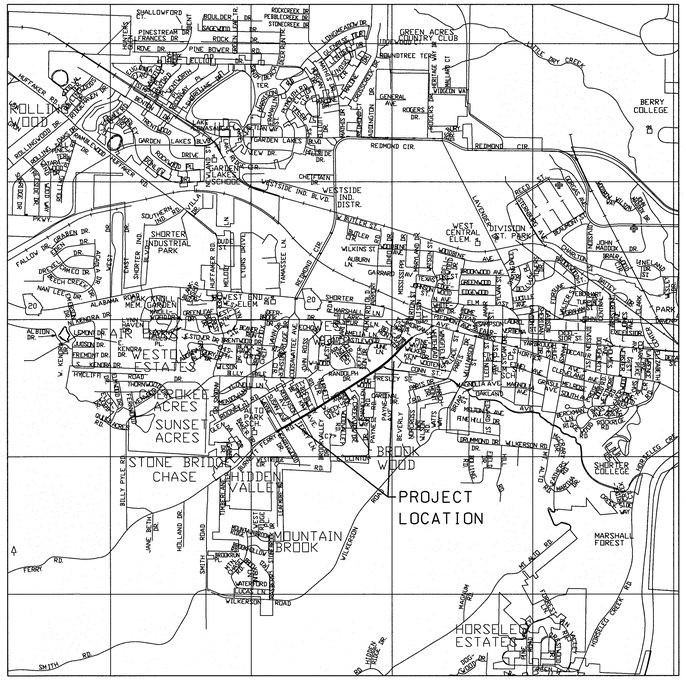
STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	1	

CITY OF ROME
ENGINEERING DEPARTMENT

BURNETT FERRY ROAD IMPROVEMENTS

BID NO. 031-16

PROJECT LOCATED IN LAND LOTS 160, 161, 165 AND 166 OF THE 4TH DISTRICT, 4TH SECTION, FLOYD COUNTY, GEORGIA AND IN THE 3RD WARD OF THE CITY OF ROME



LENGTH OF PROJECT	MILES
NET LENGTH OF ROADWAY	1.099
NET LENGTH OF BRIDGE/CULVERT	0.000
NET LENGTH OF PROJECT	1.099
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF ROADWAY	1.099

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

GEORGIA REGISTERED No. 12957 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.
9-9-16

ISSUED FOR BID: 9/9/2016	
REVISIONS:	

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	2	

SHEET NO.	DRAWING NO.	DESCRIPTION
1	1-01	COVER
2	2-01	INDEX
5	5-01	TYPICAL SECTIONS
13	13-01 to 13-14	MAINLINE PLAN & PROFILE AND DEEP PATCHING PLANS
22	22-01 to 22-02	DRAINAGE PROFILES
23	23-01 to 23-15	CROSS SECTIONS
50	50-01	EROSION & SEDIMENT CONTROL COVER
51	51-01	EROSION & SEDIMENT CONTROL GENERAL NOTES
52	52-01	EROSION & SEDIMENT CONTROL LEGEND AND UNIFORM CODES
54	54-01 to 54-07	BMP LOCATION DETAILS
55	55-01 to 55-06	MISCELLANEOUS STANDARDS & DETAILS
		GDOT CONSTRUCTION STANDARDS
	8/1999	GA. STD. 1001-B - PIPE CULVERT CONCRETE HEADWALL
	10/1981	GA. STD. 1011A - BRICK MANHOLE
	8/1999	GA. STD. 1019A - DROP INLETS
	8/1982	GA. STD. 1033D - CATCH BASINS
	8/1982	GA. STD. 1034D - CATCH BASINS
	8/1999	GA. STD. 1401 - PAVEMENT PATCHING DETAILS
	10/2011	GA. STD. 9032B - CONCRETE CURB AND GUTTER
	8/1999	GA. STD. 9100 - TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISC. DETAILS
	7/1992	GA. STD. 9102 - TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY
		GDOT CONSTRUCTION DETAILS
	3/2002	GA. DET. A2 - CONCRETE VALLEY GUTTER AT STREET INTERSECTION
	3/2002	GA. DET. A3 - CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMP
	3/2002	GA. DET. A4 - DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING, AND ALIGNMENT REQUIREMENTS
	7/2002	GA. DET. T-3A - TYPE 7,8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL
		CITY OF ROME CONSTRUCTION STANDARDS & DETAILS
		CITY OF ROME DRIVEWAY DETAIL AND CURB & GUTTER SECTIONS
		PAVEMENT REPLACEMENT FOR ASPHALT PAVEMENT
		PIPE BEDDING DETAIL
		TYPICAL CURB AND GUTTER SECTION ALONG BURNETT FERRY ROAD
		NEW SANITARY SEWER SERVICE CONNECTION DETAIL
		SANITARY SEWER SERVICE TO MANHOLE CONNECTION DETAIL
		DIAMOND DOWEL LOAD TRANSFER SYSTEM
	11/01/2001	TYPICAL WATER SERVICE RELOCATION STANDARD DETAIL
	5/31/2016	TYPICAL "DEEP PATCHING" STANDARD DETAIL

SHEET NO.	DRAWING NO.	DESCRIPTION

GEORGIA REGISTERED No. 29576 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR. 9-9-16

SES

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P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID:
9/9/2016
ISSUED FOR CONSTRUCTION:

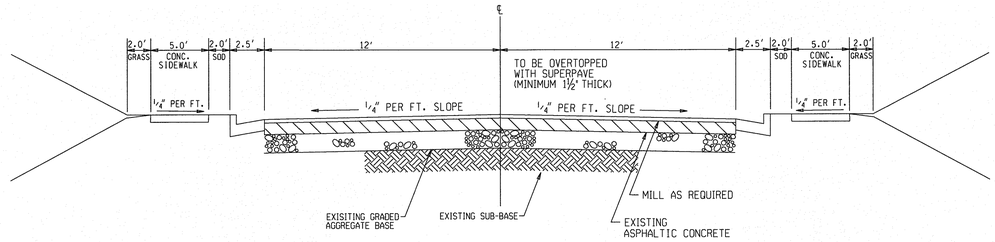
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

INDEX

DRAWING No.
2-01

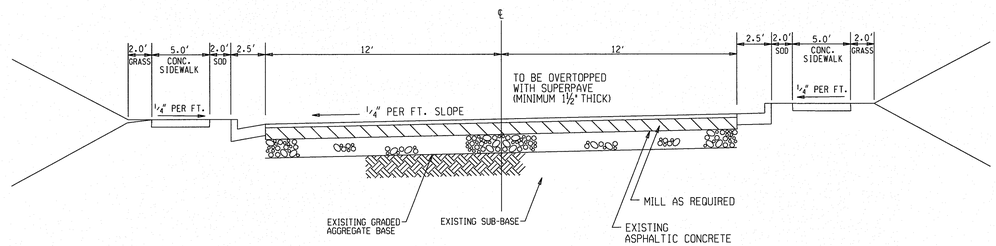
STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	5	



TYPICAL ROADWAY SECTION

STA. 256+71 TO STA. 297+86
STA. 304+76 TO STA. 313+02

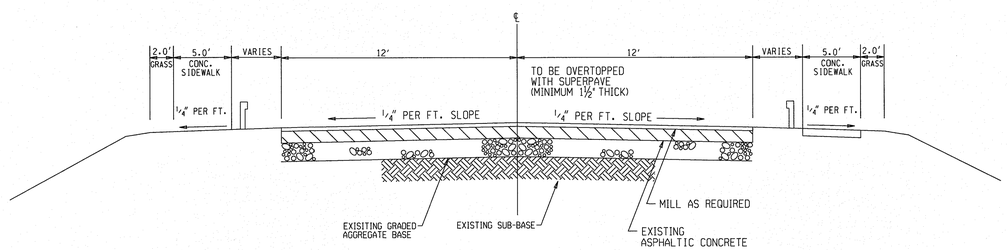
SCALE : NOT TO SCALE



TYPICAL ROADWAY SECTION

STA. 255+00 TO STA. 256+71
STA. 297+86 TO STA. 299+23
STA. 301+13 TO STA. 304+76

SCALE : NOT TO SCALE



TYPICAL ROADWAY SECTION

STA. 299+23 TO STA. 301+13

SCALE : NOT TO SCALE

GEORGIA REGISTERED No. 19579 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR. 9-9-16

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160 Three Rivers Drive
Suite 1400
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P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID:
9/9/2016
ISSUED FOR CONSTRUCTION:

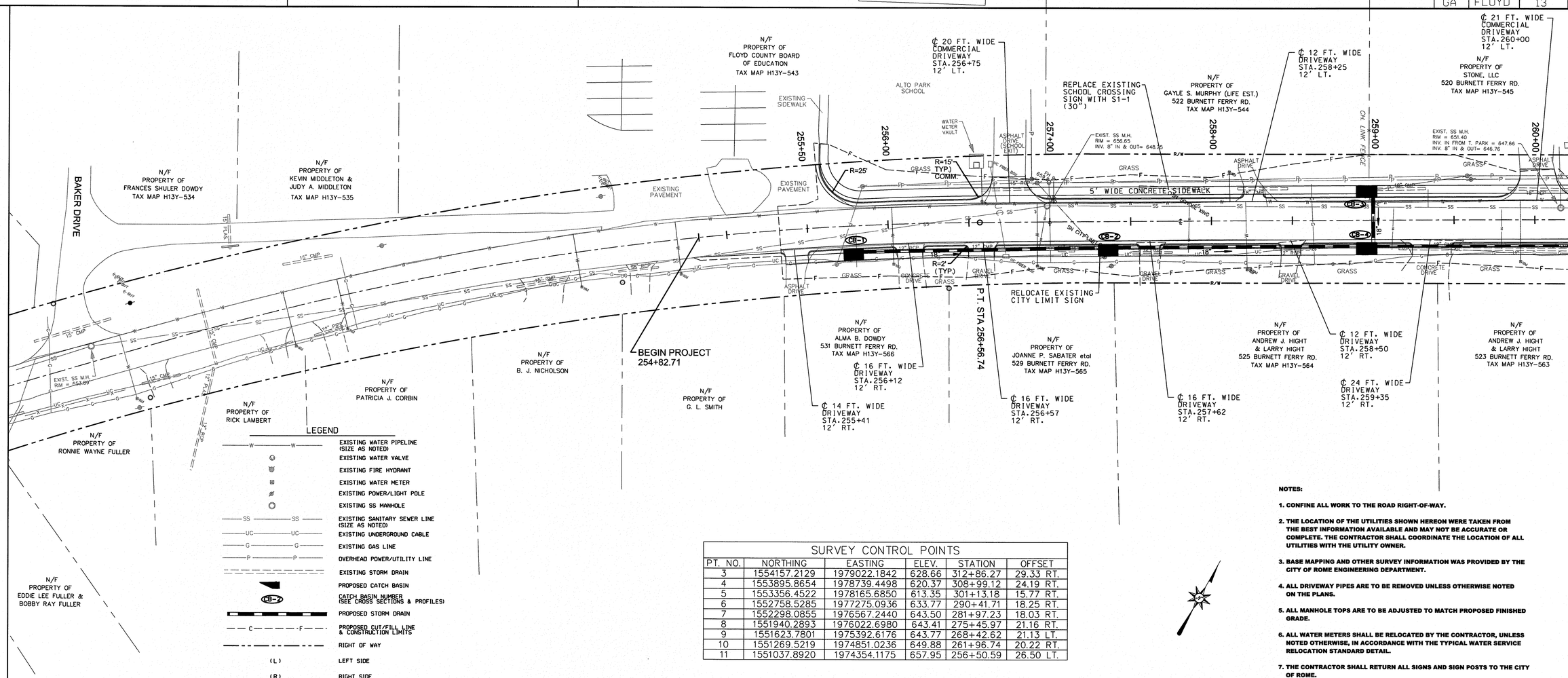
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

TYPICAL SECTIONS

DRAWING No.
5-01

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	



LEGEND

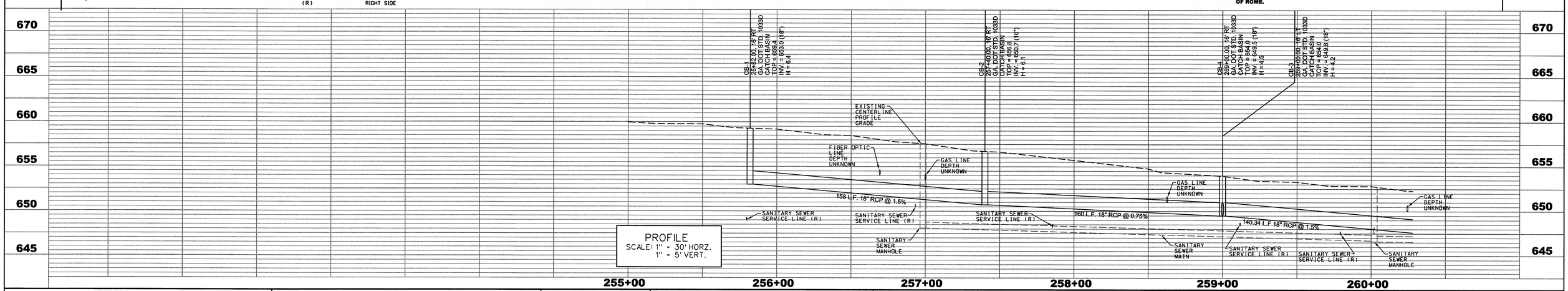
—W—W—	EXISTING WATER PIPELINE (SIZE AS NOTED)
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING POWER/LIGHT POLE
	EXISTING SS MANHOLE
—SS—SS—	EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
—UC—UC—	EXISTING UNDERGROUND CABLE
—G—G—	EXISTING GAS LINE
—P—P—	OVERHEAD POWER/UTILITY LINE
	EXISTING STORM DRAIN
	PROPOSED CATCH BASIN
CB-2	CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
	PROPOSED STORM DRAIN
—C—F—	PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
	RIGHT OF WAY
(L)	LEFT SIDE
(R)	RIGHT SIDE

SURVEY CONTROL POINTS

PT. NO.	NORTHING	EASTING	ELEV.	STATION	OFFSET
3	1554157.2129	1979022.1842	628.66	312+86.27	29.33 RT.
4	1553895.8654	1978739.4498	620.37	308+99.12	24.19 RT.
5	1553356.4522	1978165.6850	613.35	301+13.18	15.77 RT.
6	1552758.5285	1977275.0936	633.77	290+41.71	18.25 RT.
7	1552298.0855	1976567.2440	643.50	281+97.23	18.03 RT.
8	1551940.2893	1976022.6980	643.41	275+45.97	21.16 RT.
9	1551623.7801	1975392.6176	643.77	268+42.62	21.13 LT.
10	1551269.5219	1974851.0236	649.88	261+96.74	20.22 RT.
11	1551037.8920	1974354.1175	657.95	256+50.59	26.50 LT.

NOTES:

1. CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.
2. THE LOCATION OF THE UTILITIES SHOWN HEREON WERE TAKEN FROM THE BEST INFORMATION AVAILABLE AND MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UTILITIES WITH THE UTILITY OWNER.
3. BASE MAPPING AND OTHER SURVEY INFORMATION WAS PROVIDED BY THE CITY OF ROME ENGINEERING DEPARTMENT.
4. ALL DRIVEWAY PIPES ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
5. ALL MANHOLE TOPS ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE.
6. ALL WATER METERS SHALL BE RELOCATED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH THE TYPICAL WATER SERVICE RELOCATION STANDARD DETAIL.
7. THE CONTRACTOR SHALL RETURN ALL SIGNS AND SIGN POSTS TO THE CITY OF ROME.



PROFILE
SCALE: 1" = 30' HORZ.
1" = 5' VERT.

SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER 29571 CHARLES F. HARDIN, JR.

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www.southernEandS.com

PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID: 9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

PLAN & PROFILE
STA. 255+00 TO STA. 260+28

DRAWING No. 13-01

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	

NOTES:

1. CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.
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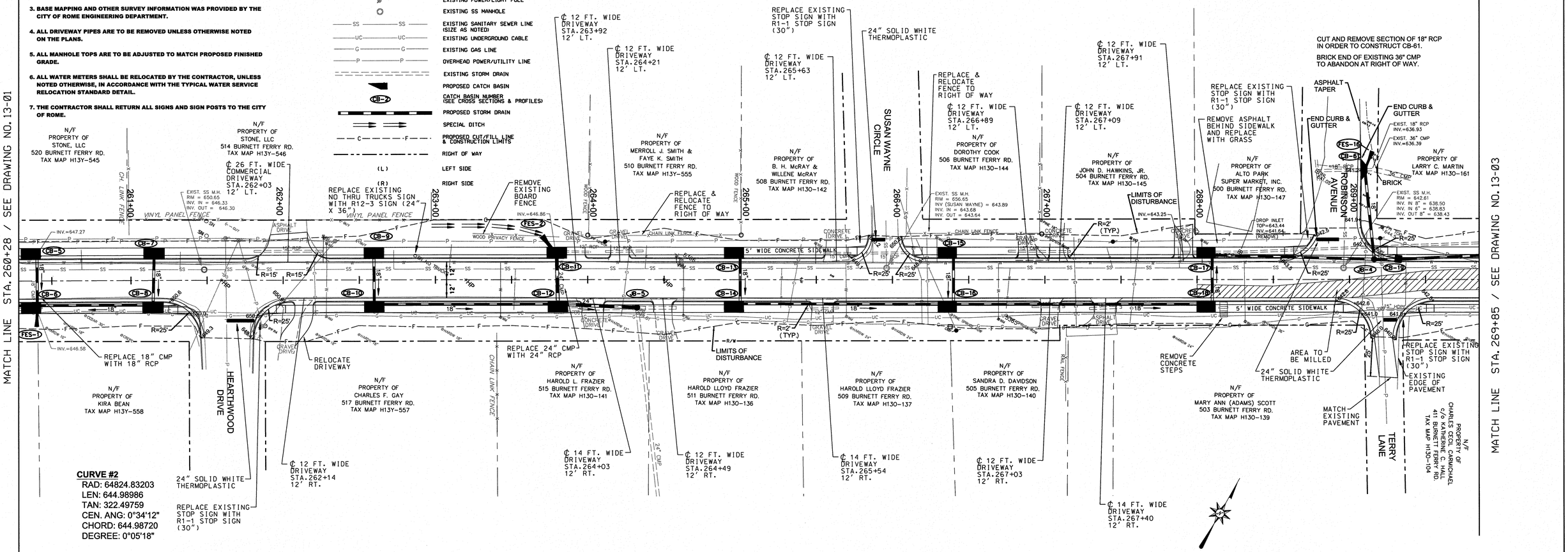
7. THE CONTRACTOR SHALL RETURN ALL SIGNS AND SIGN POSTS TO THE CITY OF ROME.

LEGEND

- EXISTING WATER PIPELINE (SIZE AS NOTED)
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER/LIGHT POLE
- EXISTING SS MANHOLE
- EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
- EXISTING UNDERGROUND CABLE
- EXISTING GAS LINE
- OVERHEAD POWER/UTILITY LINE
- EXISTING STORM DRAIN
- PROPOSED CATCH BASIN
- CB-2 CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
- PROPOSED STORM DRAIN
- SPECIAL DITCH
- PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
- RIGHT OF WAY
- (L) LEFT SIDE
- (R) RIGHT SIDE
- AREAS OF PAVEMENT MILLING



SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

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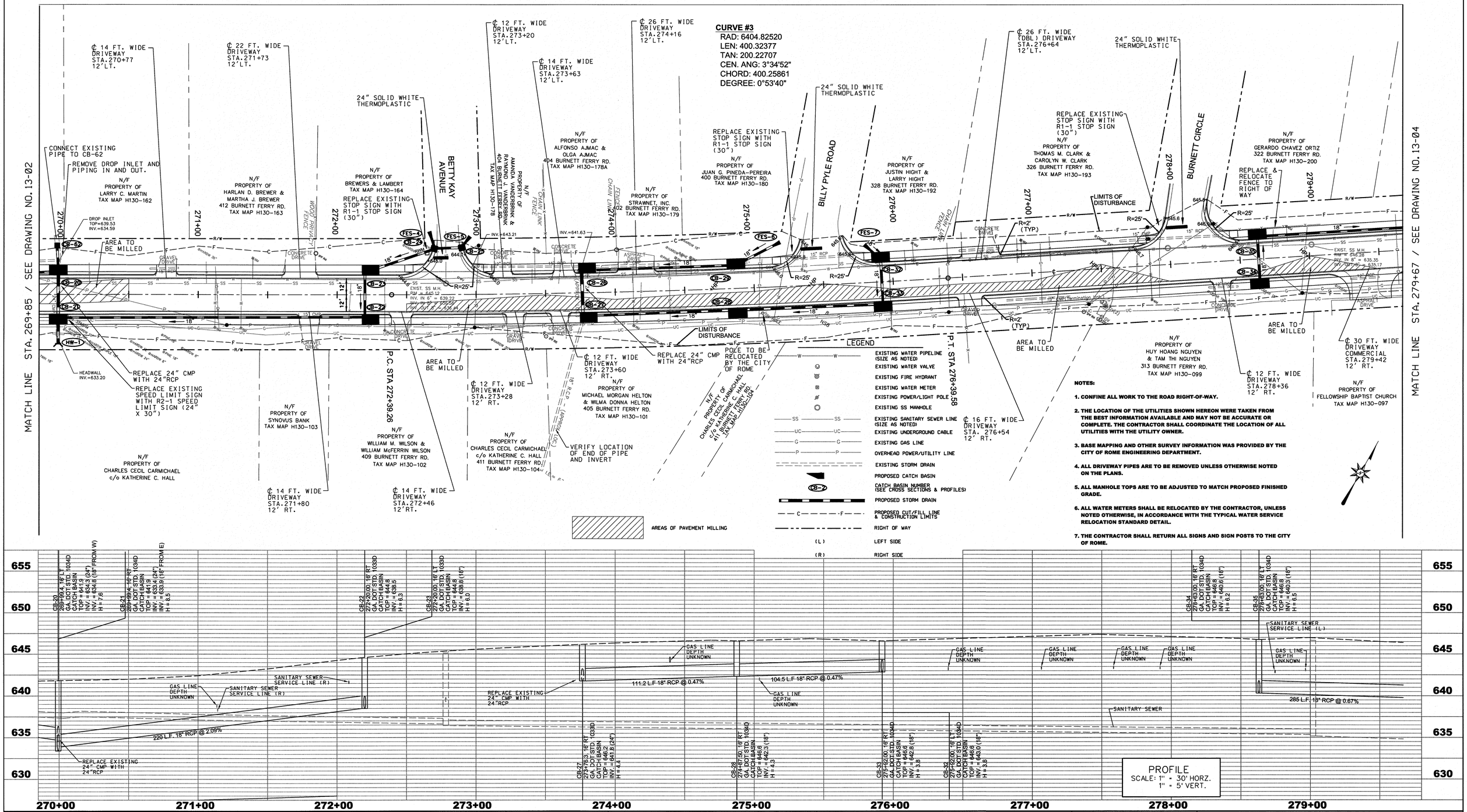
601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID: 9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME PUBLIC WORKS
BURNETT FERRY ROAD
PLAN & PROFILE STA. 260+28 TO STA. 269+85

DRAWING No. 13-02

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	



NOTES:

1. CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.
2. THE LOCATION OF THE UTILITIES SHOWN HEREON WERE TAKEN FROM THE BEST INFORMATION AVAILABLE AND MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UTILITIES WITH THE UTILITY OWNER.
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5. ALL MANHOLE TOPS ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE.
6. ALL WATER METERS SHALL BE RELOCATED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH THE TYPICAL WATER SERVICE RELOCATION STANDARD DETAIL.
7. THE CONTRACTOR SHALL RETURN ALL SIGNS AND SIGN POSTS TO THE CITY OF ROME.

SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR. 9-9-16

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PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

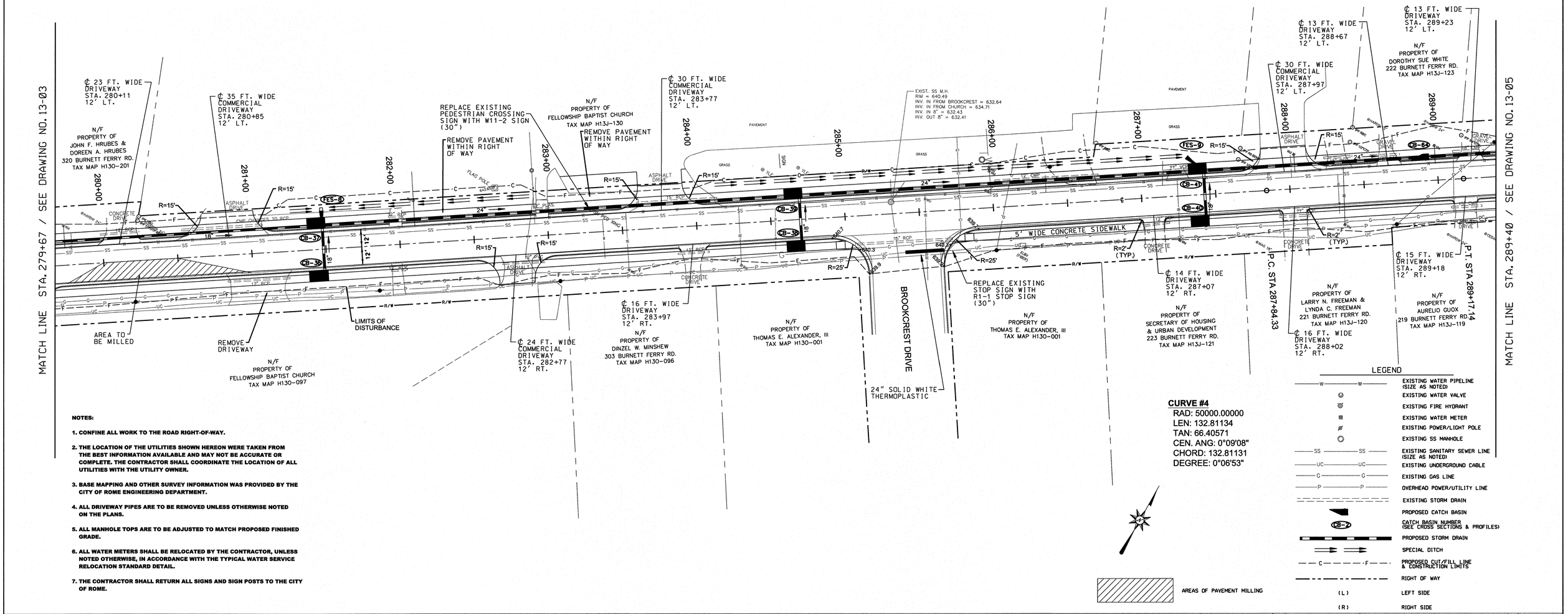
ISSUED FOR BID: 9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

PLAN & PROFILE
STA. 269+85 TO STA. 279+67

DRAWING No. 13-03

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	



NOTES:

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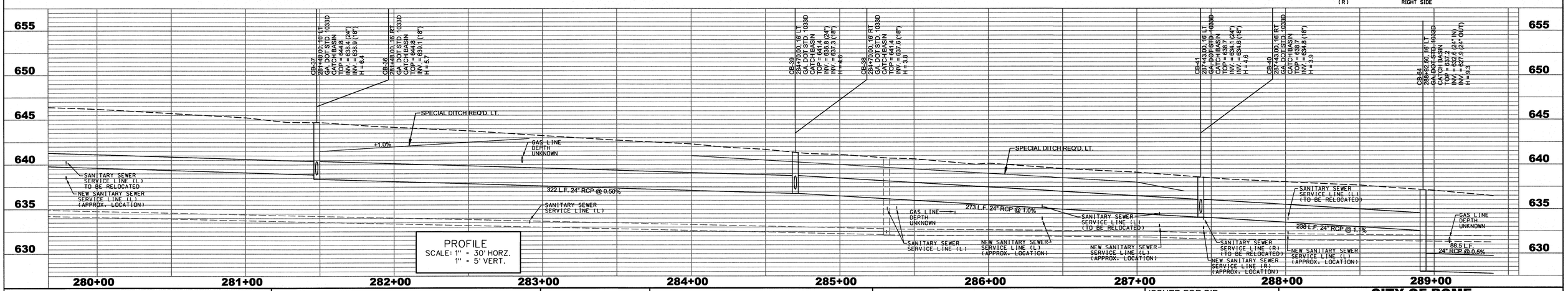
6. ALL WATER METERS SHALL BE RELOCATED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH THE TYPICAL WATER SERVICE RELOCATION STANDARD DETAIL.
7. THE CONTRACTOR SHALL RETURN ALL SIGNS AND SIGN POSTS TO THE CITY OF ROME.

CURVE #4
RAD: 50000.00000
LEN: 132.81134
TAN: 66.40571
CEN. ANG: 0°09'08"
CHORD: 132.81131
DEGREE: 0°06'53"

AREAS OF PAVEMENT MILLING

LEGEND

—W—W—	EXISTING WATER PIPELINE (SIZE AS NOTED)
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING POWER/LIGHT POLE
	EXISTING SS MANHOLE
—SS—SS—	EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
—UC—UC—	EXISTING UNDERGROUND CABLE
—G—G—	EXISTING GAS LINE
—P—P—	OVERHEAD POWER/UTILITY LINE
	EXISTING STORM DRAIN
	PROPOSED CATCH BASIN
CB-7	CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
	PROPOSED STORM DRAIN
	SPECIAL DITCH
—C——F—	PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
	RIGHT OF WAY
(L)	LEFT SIDE
(R)	RIGHT SIDE



SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED No. 29571 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

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Southern Engineering & Surveying, Inc.
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PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID: 9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME PUBLIC WORKS
BURNETT FERRY ROAD

PLAN & PROFILE
STA. 279+67 TO STA. 289+40

DRAWING No. 13-04

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	

LEGEND

EXISTING WATER PIPELINE (SIZE AS NOTED)	EXISTING STORM DRAIN
EXISTING WATER VALVE	PROPOSED CATCH BASIN
EXISTING FIRE HYDRANT	CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
EXISTING WATER METER	PROPOSED STORM DRAIN
EXISTING POWER/LIGHT POLE	PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
EXISTING SS MANHOLE	RIGHT OF WAY
EXISTING SANITARY SEWER LINE (SIZE AS NOTED)	LEFT SIDE
EXISTING UNDERGROUND CABLE	RIGHT SIDE
EXISTING GAS LINE	AREAS OF PAVEMENT MILLING
OVERHEAD POWER/UTILITY LINE	

NOTES:

1. CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.
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7. THE CONTRACTOR SHALL RETURN ALL SIGNS AND SIGN POSTS TO THE CITY OF ROME.

CURVE #5
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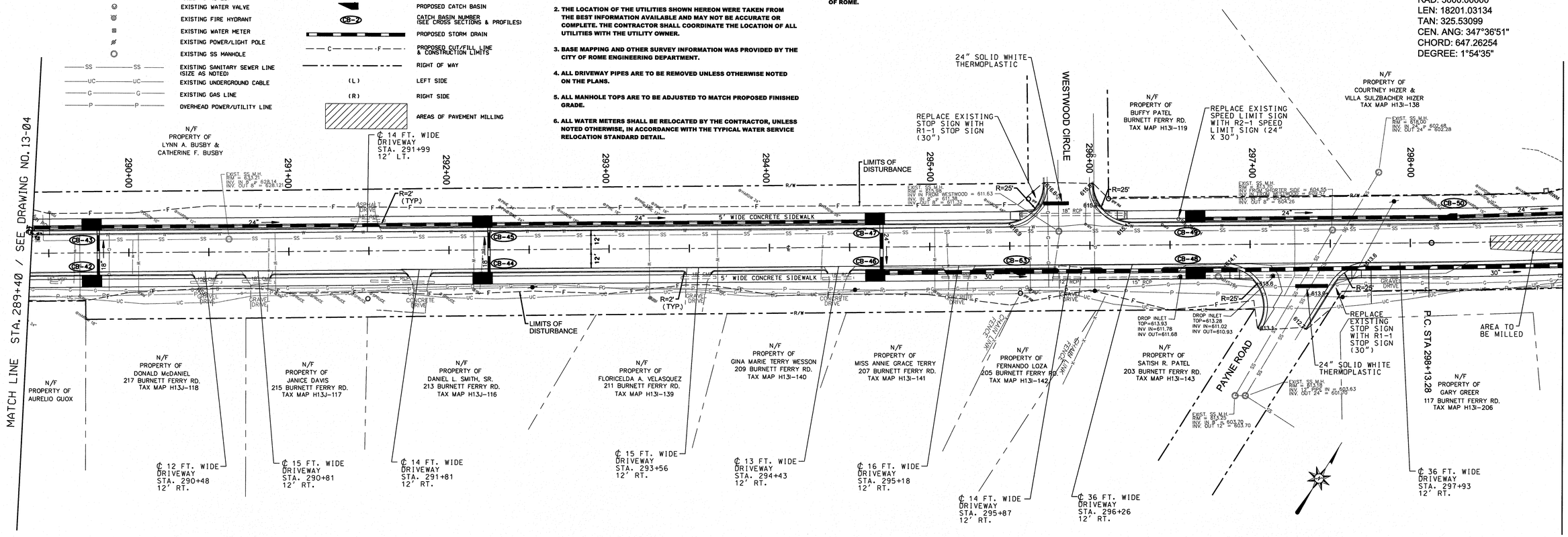
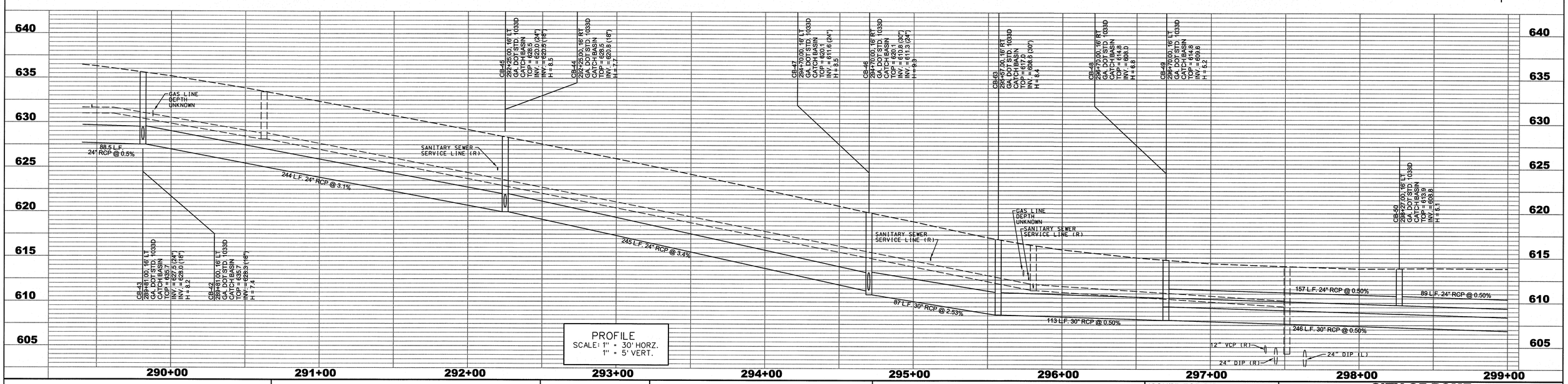
CEN. ANG: 347°36'51"
CHORD: 647.26254
DEGREE: 1°54'35"





SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

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PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

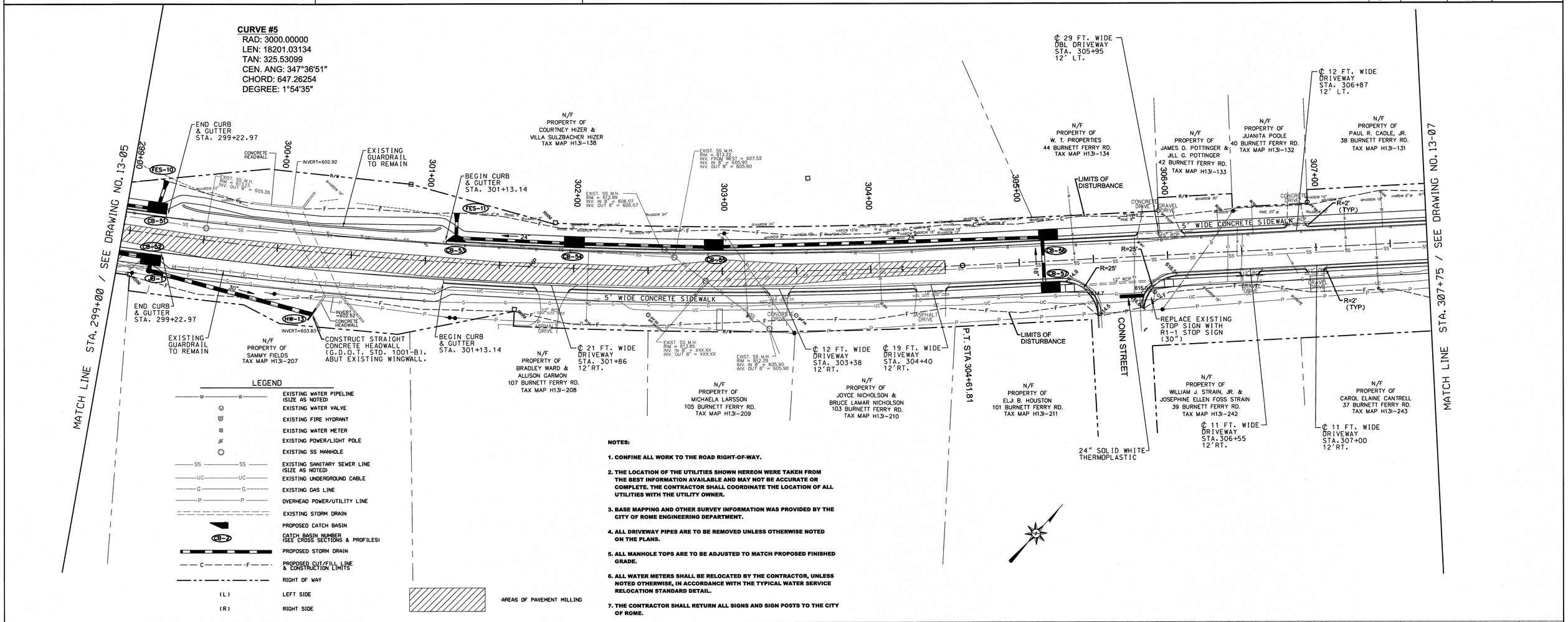
ISSUED FOR BID: 9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME PUBLIC WORKS
BURNETT FERRY ROAD
PLAN & PROFILE STA. 289+40 TO STA. 299+00

DRAWING No. 13-05

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	

CURVE #5
RAD: 3000.00000
LEN: 18201.03134
TAN: 325.53099
CEN. ANG: 347°36'51"
CHORD: 647.26254
DEGREE: 1°54'35"



LEGEND

- EXISTING WATER PIPELINE (SIZE AS NOTED)
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER/LIGHT POLE
- EXISTING SS MANHOLE
- EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
- EXISTING UNDERGROUND CABLE
- EXISTING GAS LINE
- OVERHEAD POWER/UTILITY LINE
- EXISTING STORM DRAIN
- PROPOSED CATCH BASIN
- CB-7 CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
- PROPOSED STORM DRAIN
- PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
- RIGHT OF WAY
- (L) LEFT SIDE
- (R) RIGHT SIDE

AREAS OF PAVEMENT MILLING

NOTES:

1. CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.
2. THE LOCATION OF THE UTILITIES SHOWN HEREON WERE TAKEN FROM THE BEST INFORMATION AVAILABLE AND MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UTILITIES WITH THE UTILITY OWNER.
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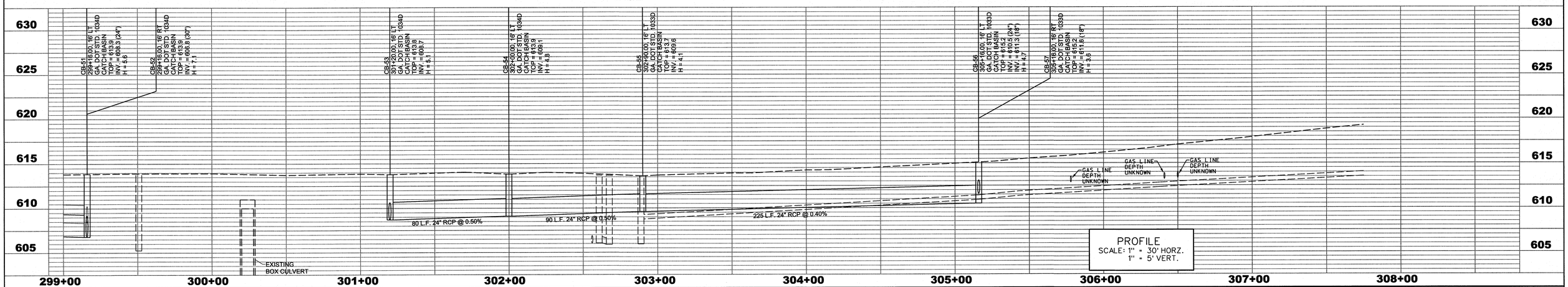
4. ALL DRIVEWAY PIPES ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
5. ALL MANHOLE TOPS ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE.
6. ALL WATER METERS SHALL BE RELOCATED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH THE TYPICAL WATER SERVICE RELOCATION STANDARD DETAIL.
7. THE CONTRACTOR SHALL RETURN ALL SIGNS AND SIGN POSTS TO THE CITY OF ROME.



SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED No. 29578 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID: 9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

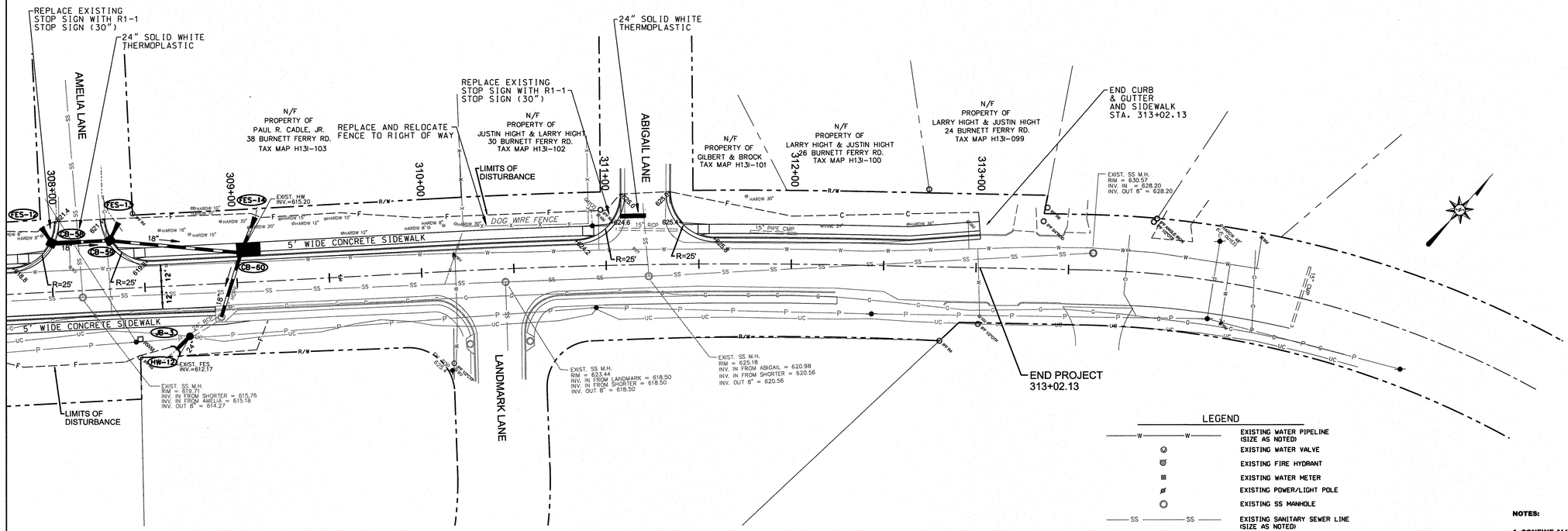
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

PLAN & PROFILE
STA. 299+00 TO 307+75

DRAWING No. 13-06

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	

MATCH LINE STA. 307+75 / SEE DRAWING NO. 13-06

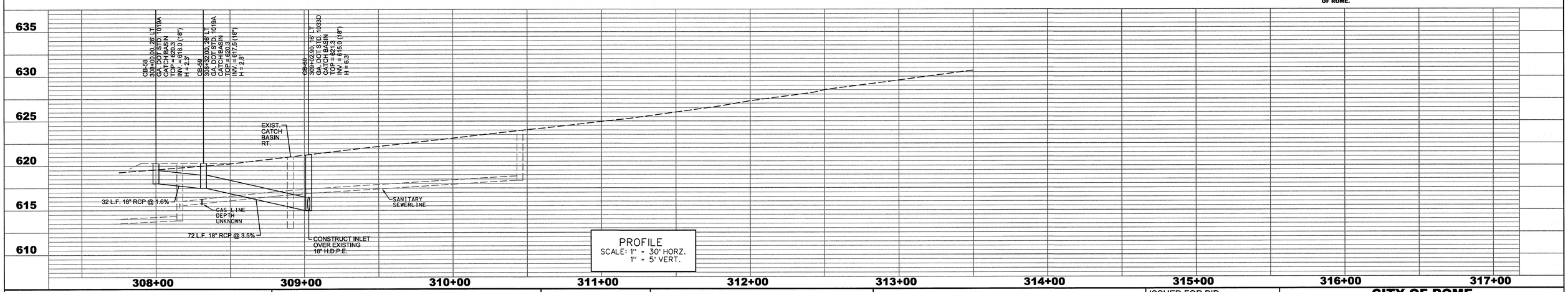


LEGEND

—W—W—	EXISTING WATER PIPELINE (SIZE AS NOTED)
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING POWER/LIGHT POLE
	EXISTING SS MANHOLE
—SS—SS—	EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
—UC—UC—	EXISTING UNDERGROUND CABLE
—G—G—	EXISTING GAS LINE
—P—P—	OVERHEAD POWER/UTILITY LINE
	EXISTING STORM DRAIN
	PROPOSED CATCH BASIN
CB-2	CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
	PROPOSED STORM DRAIN
—C—F—	PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
	RIGHT OF WAY
(L)	LEFT SIDE
(R)	RIGHT SIDE

NOTES:

1. CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.
2. THE LOCATION OF THE UTILITIES SHOWN HEREON WERE TAKEN FROM THE BEST INFORMATION AVAILABLE AND MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UTILITIES WITH THE UTILITY OWNER.
3. BASE MAPPING AND OTHER SURVEY INFORMATION WAS PROVIDED BY THE CITY OF ROME ENGINEERING DEPARTMENT.
4. ALL DRIVEWAY PIPES ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
5. ALL MANHOLE TOPS ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE.
6. ALL WATER METERS SHALL BE RELOCATED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH THE TYPICAL WATER SERVICE RELOCATION STANDARD DETAIL.
7. THE CONTRACTOR SHALL RETURN ALL SIGNS AND SIGN POSTS TO THE CITY OF ROME.



PROFILE
SCALE: 1" = 30' HORZ.
1" = 5' VERT.

SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED No. 29579 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

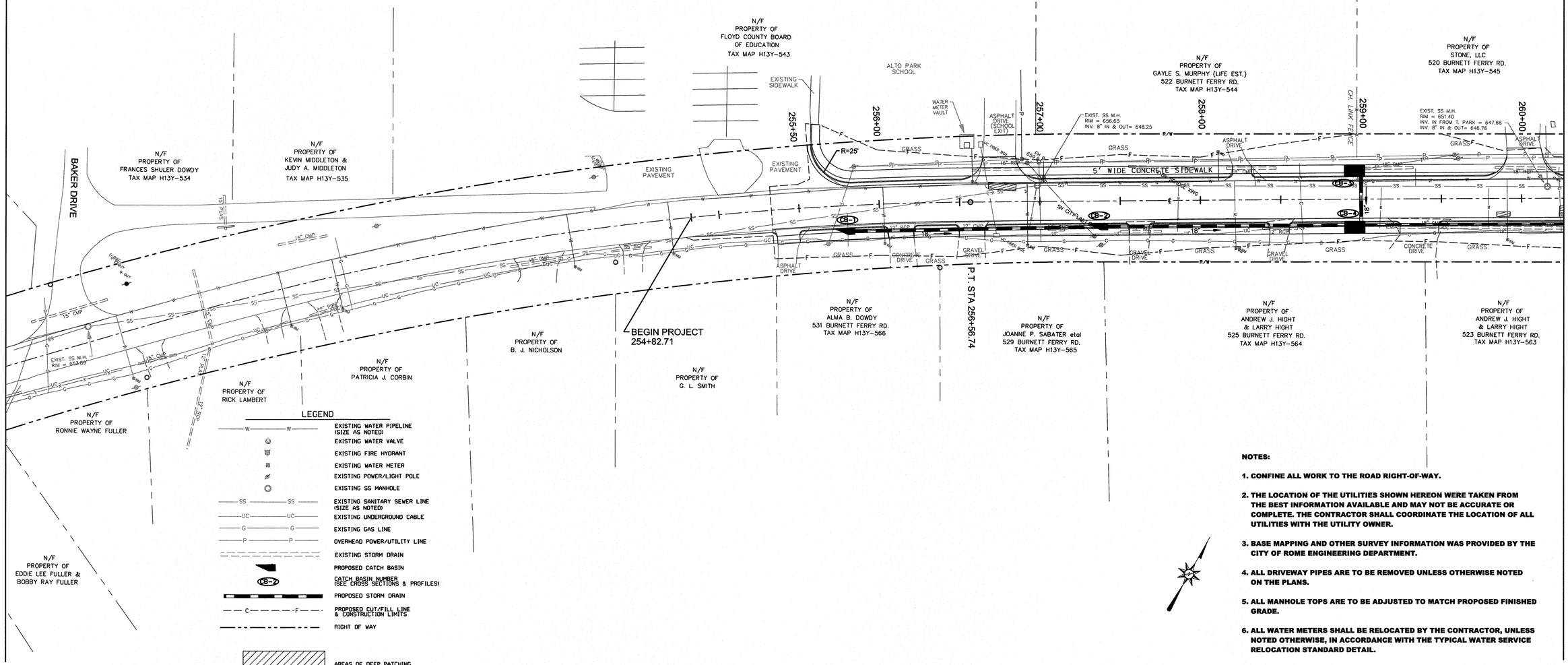
ISSUED FOR BID: 9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

PLAN & PROFILE
STA. 307+75 TO STA. 313+02

DRAWING No. 13-07

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	



MATCH LINE STA. 260+28 / SEE DRAWING NO. 13-09

LEGEND

—W—W—	EXISTING WATER PIPELINE (SIZE AS NOTED)
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING POWER/LIGHT POLE
	EXISTING SS MANHOLE
—SS—SS—	EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
—UC—UC—	EXISTING UNDERGROUND CABLE
—G—G—	EXISTING GAS LINE
—P—P—	OVERHEAD POWER/UTILITY LINE
	EXISTING STORM DRAIN
	PROPOSED CATCH BASIN
CB-2	CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
	PROPOSED STORM DRAIN
—C—F—	PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
	RIGHT OF WAY
	AREAS OF DEEP PATCHING

NOTES:

1. **CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.**
2. **THE LOCATION OF THE UTILITIES SHOWN HEREON WERE TAKEN FROM THE BEST INFORMATION AVAILABLE AND MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UTILITIES WITH THE UTILITY OWNER.**
3. **BASE MAPPING AND OTHER SURVEY INFORMATION WAS PROVIDED BY THE CITY OF ROME ENGINEERING DEPARTMENT.**
4. **ALL DRIVEWAY PIPES ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.**
5. **ALL MANHOLE TOPS ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE.**
6. **ALL WATER METERS SHALL BE RELOCATED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH THE TYPICAL WATER SERVICE RELOCATION STANDARD DETAIL.**

SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19578 CHARLES F. HARDIN, JR. 9-1-16

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PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID:	9/9/2016
ISSUED FOR CONSTRUCTION:	
REVISION DATES:	

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

DEEP PATCHING PLAN
STA. 255+00 TO STA. 260+28

DRAWING No.
13-08

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	

NOTES:

1. **CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.**
2. **THE LOCATION OF THE UTILITIES SHOWN HEREON WERE TAKEN FROM THE BEST INFORMATION AVAILABLE AND MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UTILITIES WITH THE UTILITY OWNER.**
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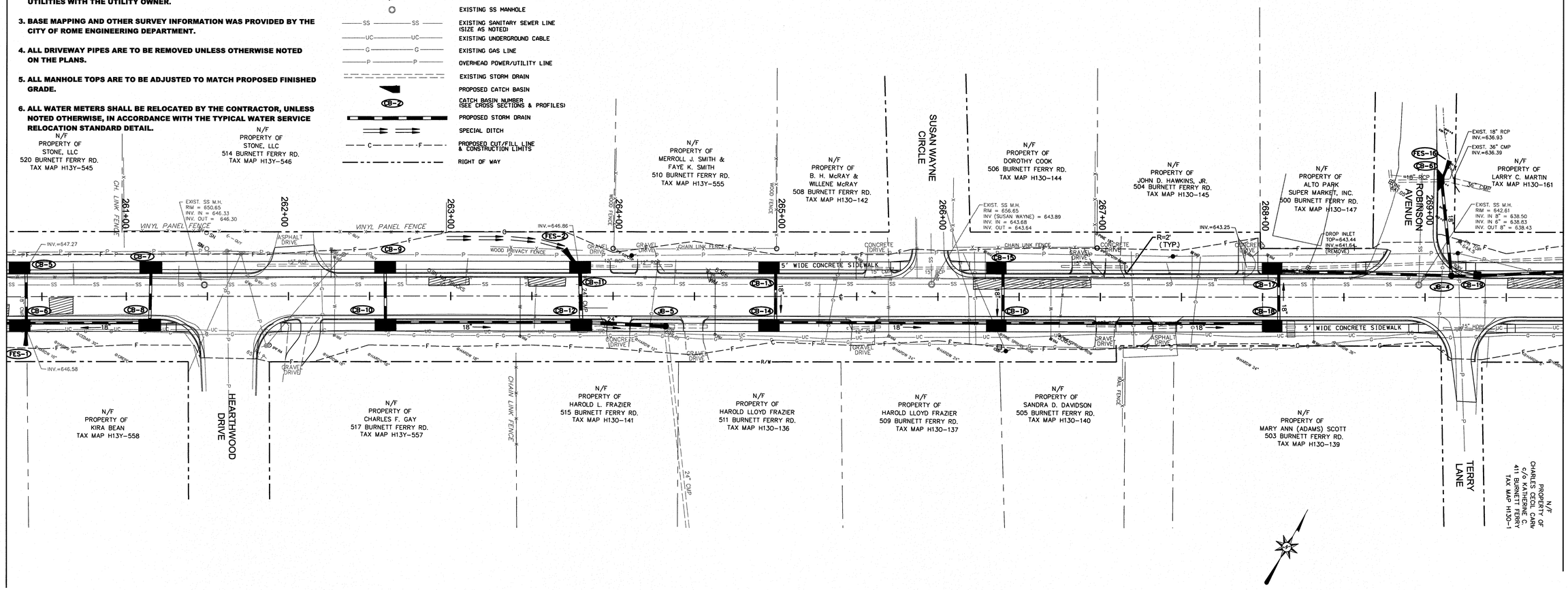
LEGEND

- EXISTING WATER PIPELINE (SIZE AS NOTED)
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER/LIGHT POLE
- EXISTING SS MANHOLE
- EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
- EXISTING UNDERGROUND CABLE
- EXISTING GAS LINE
- OVERHEAD POWER/UTILITY LINE
- EXISTING STORM DRAIN
- PROPOSED CATCH BASIN
- CB-2 CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
- PROPOSED STORM DRAIN
- SPECIAL DITCH
- PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
- RIGHT OF WAY
- AREAS OF DEEP PATCHING



SCALE IN FEET

0 30 60 120

SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29579 CHARLES F. HARDIN, JR.

SES

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PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID:
9/9/2016
ISSUED FOR CONSTRUCTION:

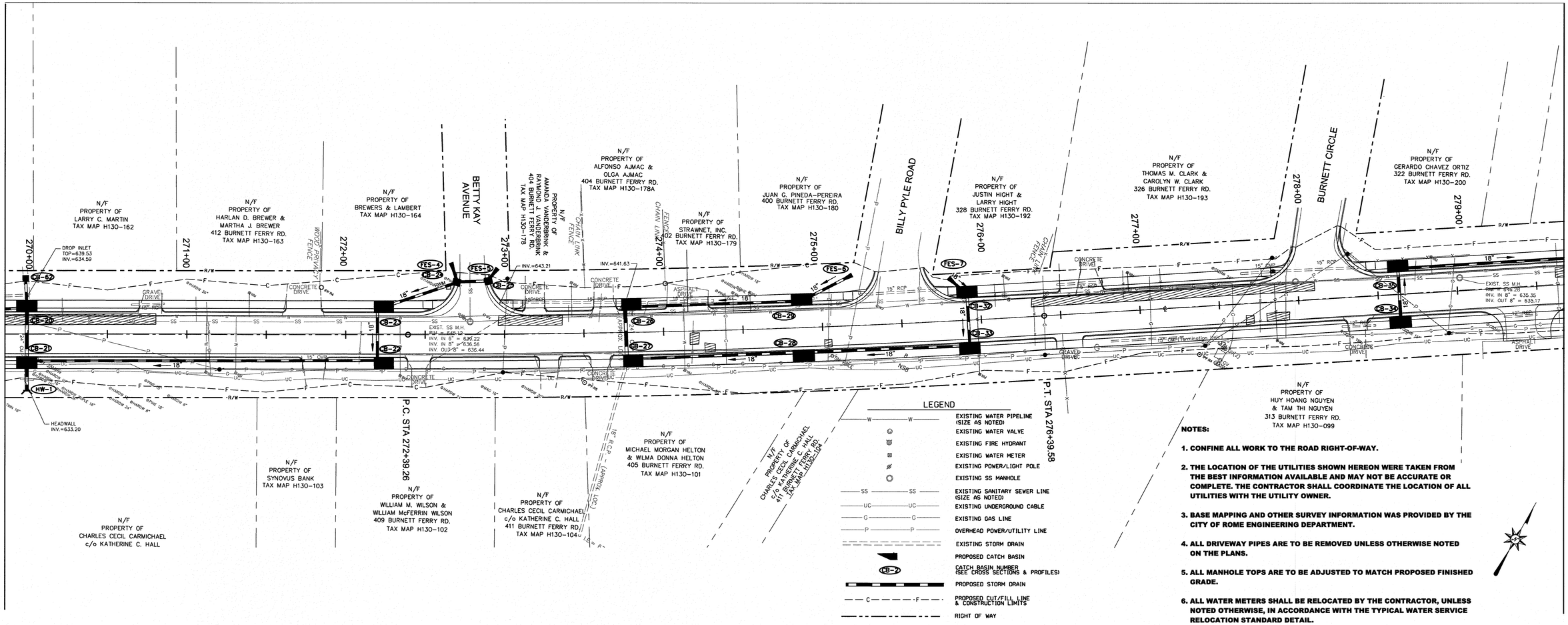
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

DEEP PATCHING PLAN
STA. 260+28 TO STA. 269+85

DRAWING No.
13-09

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	



LEGEND

W — W	EXISTING WATER PIPELINE (SIZE AS NOTED)
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING POWER/LIGHT POLE
	EXISTING SS MANHOLE
SS — SS	EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
UC — UC	EXISTING UNDERGROUND CABLE
G — G	EXISTING GAS LINE
P — P	OVERHEAD POWER/UTILITY LINE
	EXISTING STORM DRAIN
	PROPOSED CATCH BASIN
CB-7	CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
	PROPOSED STORM DRAIN
C — F	PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
	RIGHT OF WAY
	AREAS OF DEEP PATCHING

NOTES:

1. **CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.**
2. **THE LOCATION OF THE UTILITIES SHOWN HEREON WERE TAKEN FROM THE BEST INFORMATION AVAILABLE AND MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UTILITIES WITH THE UTILITY OWNER.**
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SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19576 CHARLES F. HARDIN, JR. 9-9-16

SES
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PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

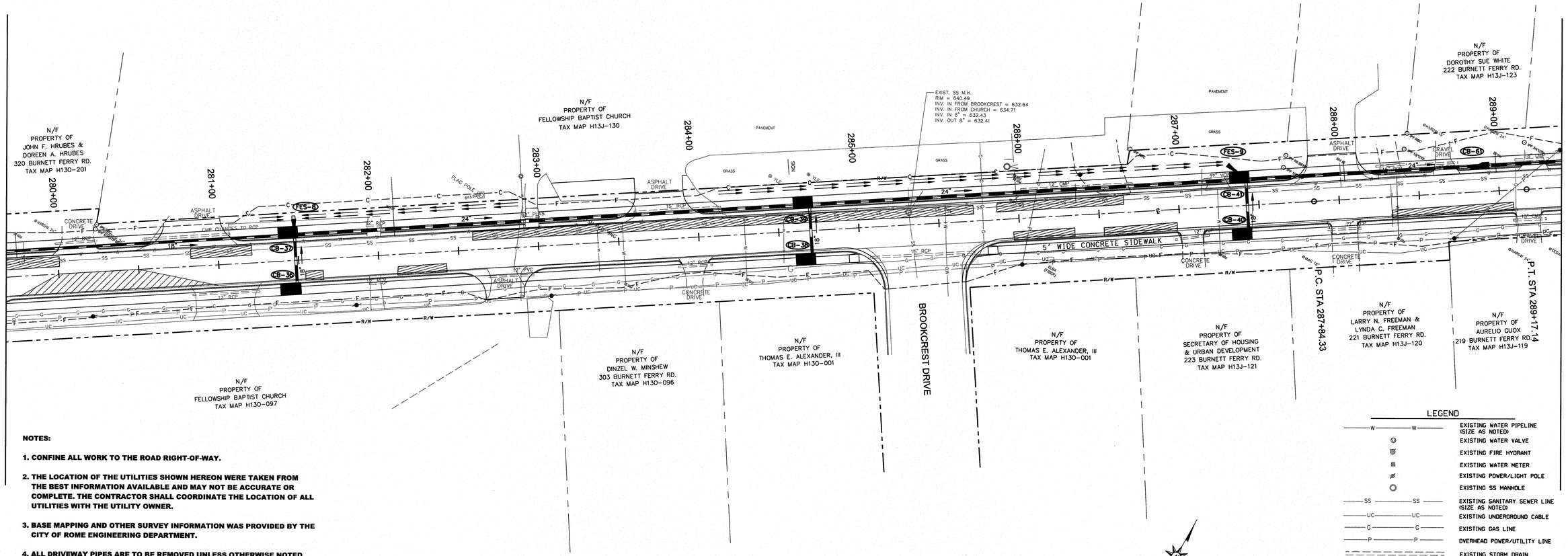
ISSUED FOR BID:	
9/9/2016	
ISSUED FOR CONSTRUCTION:	
REVISION DATES:	

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

DEEP PATCHING PLAN
STA. 269+85 TO STA. 279+67

DRAWING No.
13-10

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	



NOTES:

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LEGEND

- EXISTING WATER PIPELINE (SIZE AS NOTED)
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER/LIGHT POLE
- EXISTING SS MANHOLE
- EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
- EXISTING UNDERGROUND CABLE
- EXISTING GAS LINE
- OVERHEAD POWER/UTILITY LINE
- EXISTING STORM DRAIN
- PROPOSED CATCH BASIN
- CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
- PROPOSED STORM DRAIN
- SPECIAL DITCH
- PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
- RIGHT OF WAY
- AREAS OF DEEP PATCHING

SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED No. 29579 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR. 9-7-16

SES
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Rome, Georgia 30161
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PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID:	9/9/2016
ISSUED FOR CONSTRUCTION:	
REVISION DATES:	

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

DEEP PATCHING PLAN
STA. 279+67 TO STA. 289+40

DRAWING No. 13-11

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	

LEGEND

- EXISTING WATER PIPELINE (SIZE AS NOTED)
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER/LIGHT POLE
- EXISTING SS MANHOLE
- EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
- EXISTING UNDERGROUND CABLE
- EXISTING GAS LINE
- OVERHEAD POWER/UTILITY LINE
- EXISTING STORM DRAIN
- PROPOSED CATCH BASIN
- CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
- PROPOSED STORM DRAIN
- PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
- RIGHT OF WAY
- AREAS OF DEEP PATCHING

NOTES:

1. CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.
2. THE LOCATION OF THE UTILITIES SHOWN HEREON WERE TAKEN FROM THE BEST INFORMATION AVAILABLE AND MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UTILITIES WITH THE UTILITY OWNER.
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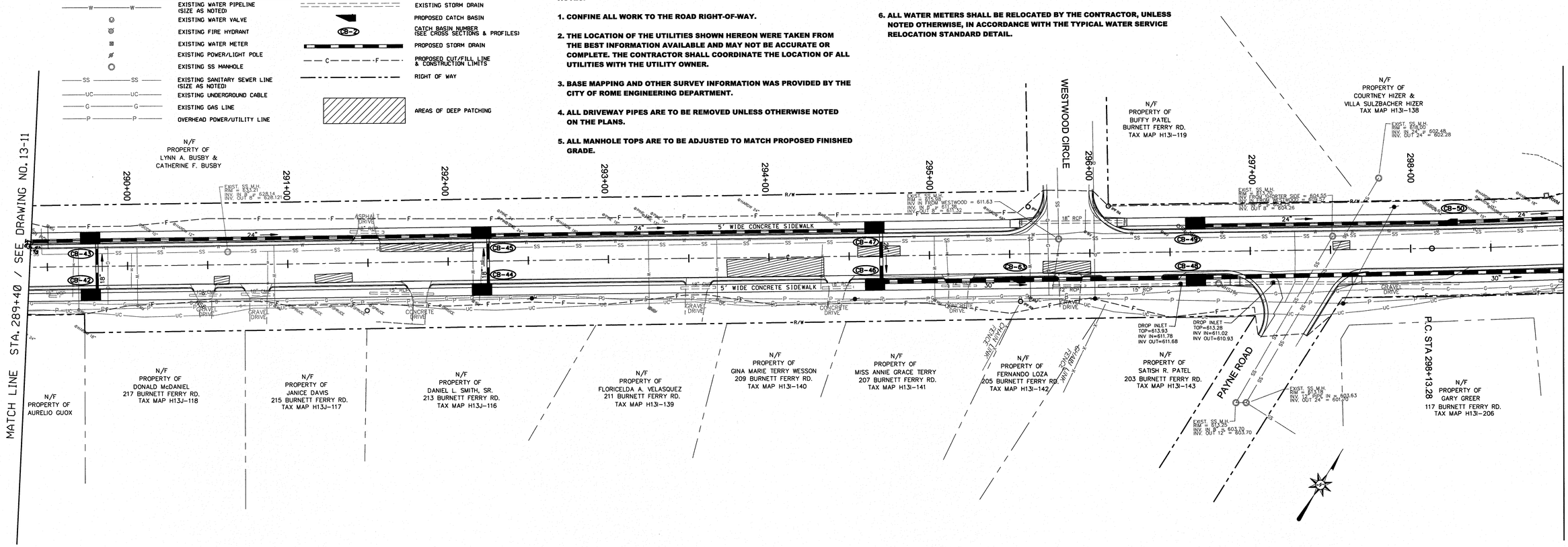
5. ALL MANHOLE TOPS ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE.
6. ALL WATER METERS SHALL BE RELOCATED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH THE TYPICAL WATER SERVICE RELOCATION STANDARD DETAIL.



SCALE IN FEET

0 30 60 120

SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

SES

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601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID: 9/9/2016

ISSUED FOR CONSTRUCTION:

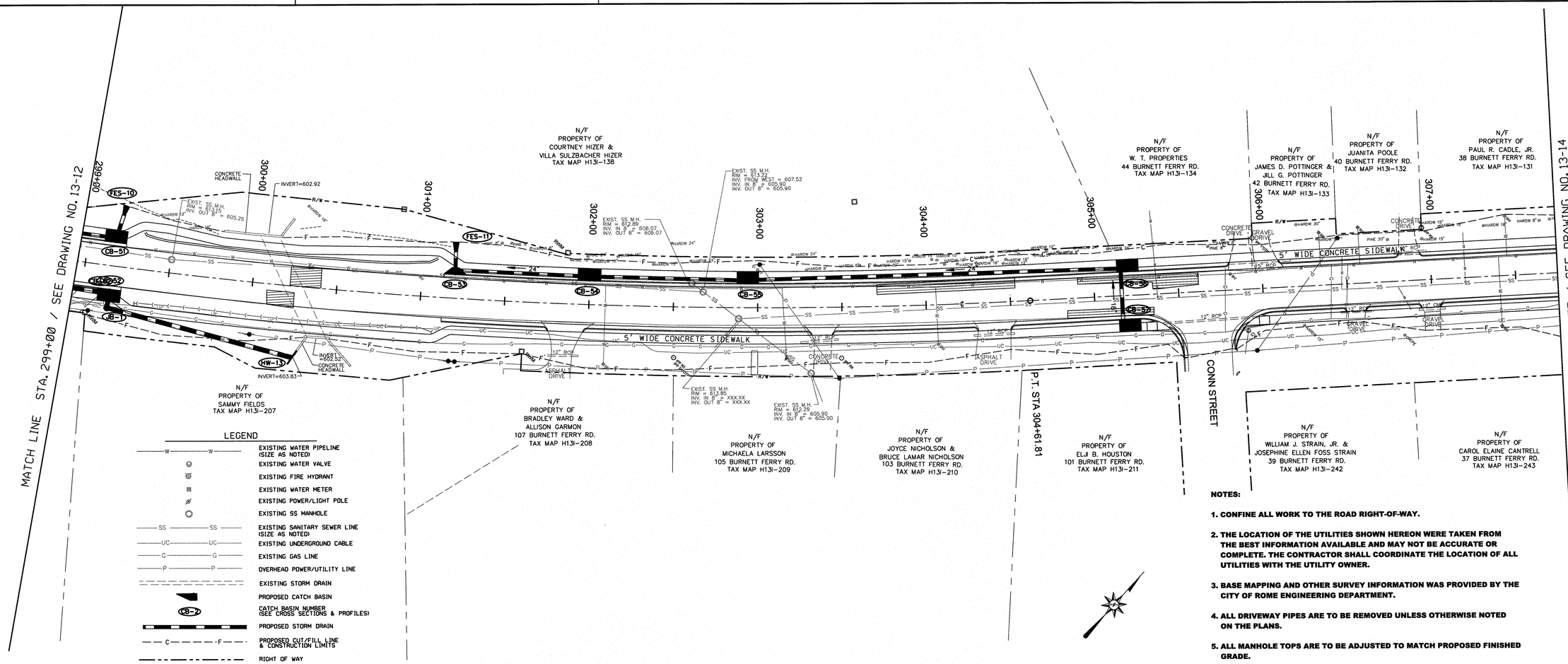
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

DEEP PATCHING PLAN
STA. 289+40 TO STA. 299+00

DRAWING No. 13-12

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	



LEGEND

—W—W—	EXISTING WATER PIPELINE (SIZE AS NOTED)
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING POWER/LIGHT POLE
	EXISTING SS MANHOLE
—SS—SS—	EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
—UC—UC—	EXISTING UNDERGROUND CABLE
—G—G—	EXISTING GAS LINE
—P—P—	OVERHEAD POWER/UTILITY LINE
	EXISTING STORM DRAIN
	PROPOSED CATCH BASIN
CB-2	CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
	PROPOSED STORM DRAIN
—C—F—	PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
	RIGHT OF WAY
	AREAS OF DEEP PATCHING

NOTES:

1. CONFINE ALL WORK TO THE ROAD RIGHT-OF-WAY.
2. THE LOCATION OF THE UTILITIES SHOWN HEREON WERE TAKEN FROM THE BEST INFORMATION AVAILABLE AND MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UTILITIES WITH THE UTILITY OWNER.
3. BASE MAPPING AND OTHER SURVEY INFORMATION WAS PROVIDED BY THE CITY OF ROME ENGINEERING DEPARTMENT.
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5. ALL MANHOLE TOPS ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE.
6. ALL WATER METERS SHALL BE RELOCATED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH THE TYPICAL WATER SERVICE RELOCATION STANDARD DETAIL.

SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29575 CHARLES F. HARDIN, JR.

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Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
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PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

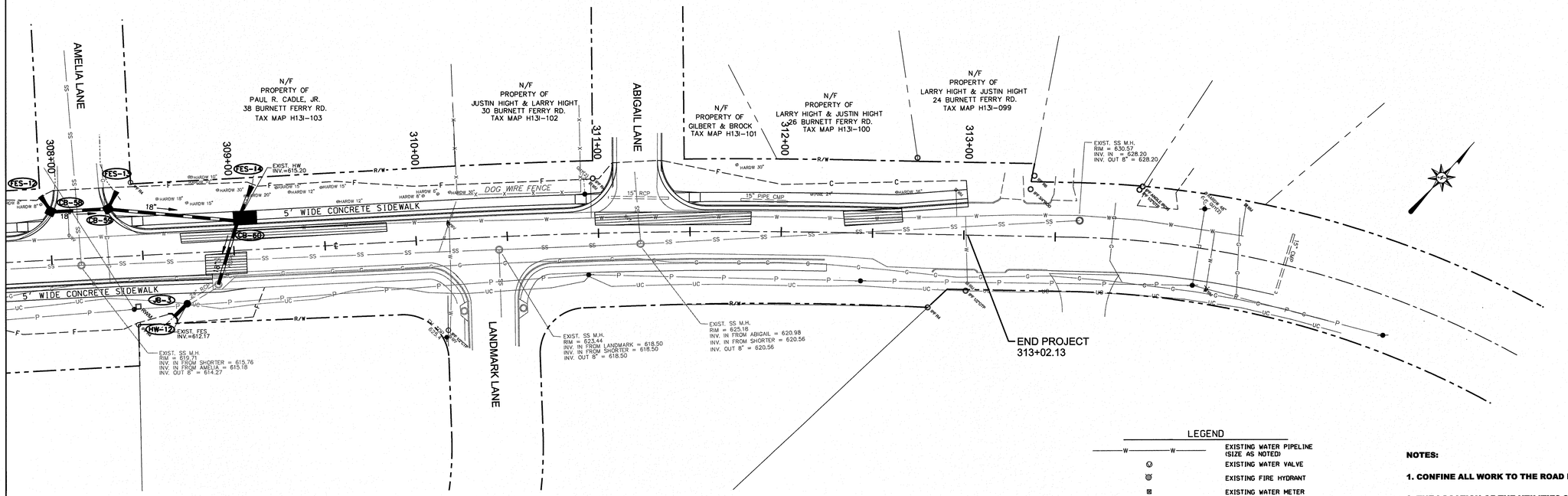
ISSUED FOR BID: 9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME PUBLIC WORKS
BURNETT FERRY ROAD
DEEP PATCHING PLAN STA. 299+00 TO 307+75

DRAWING No. 13-13

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	13	

MATCH LINE STA. 307+75 / SEE DRAWING NO. 13-13



LEGEND

—W—W—	EXISTING WATER PIPELINE (SIZE AS NOTED)
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING POWER/LIGHT POLE
	EXISTING SS MANHOLE
—SS—SS—	EXISTING SANITARY SEWER LINE (SIZE AS NOTED)
—UC—UC—	EXISTING UNDERGROUND CABLE
—G—G—	EXISTING GAS LINE
—P—P—	OVERHEAD POWER/UTILITY LINE
	EXISTING STORM DRAIN
	PROPOSED CATCH BASIN
CB-2	CATCH BASIN NUMBER (SEE CROSS SECTIONS & PROFILES)
	PROPOSED STORM DRAIN
—C—F—	PROPOSED CUT/FILL LINE & CONSTRUCTION LIMITS
	RIGHT OF WAY
	AREAS OF DEEP PATCHING

NOTES:

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SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

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PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

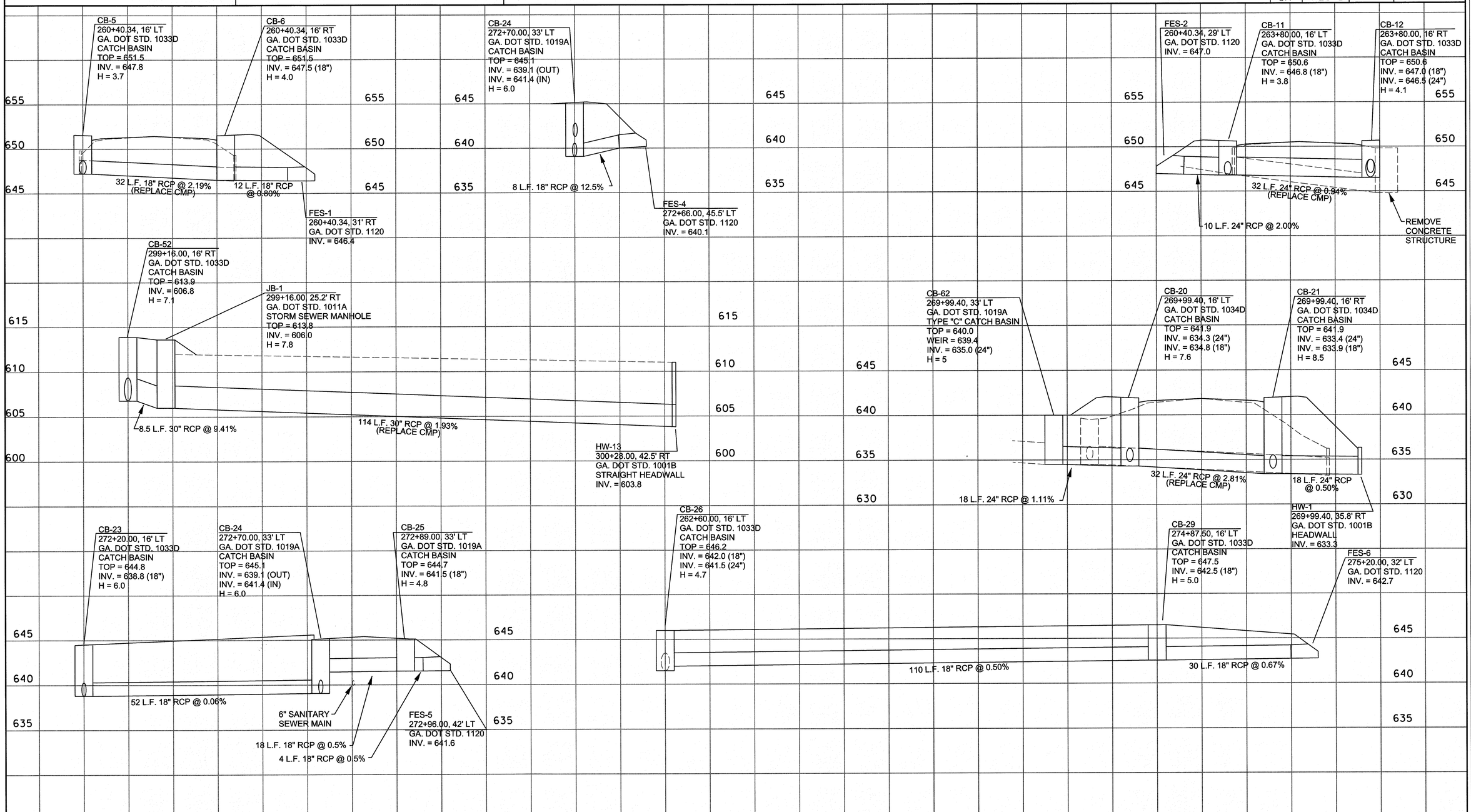
ISSUED FOR BID:
9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

DEEP PATCHING PLAN
STA. 307+75 TO STA. 313+02

DRAWING No.
13-14

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD		



GEORGIA REGISTERED No. 27579 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
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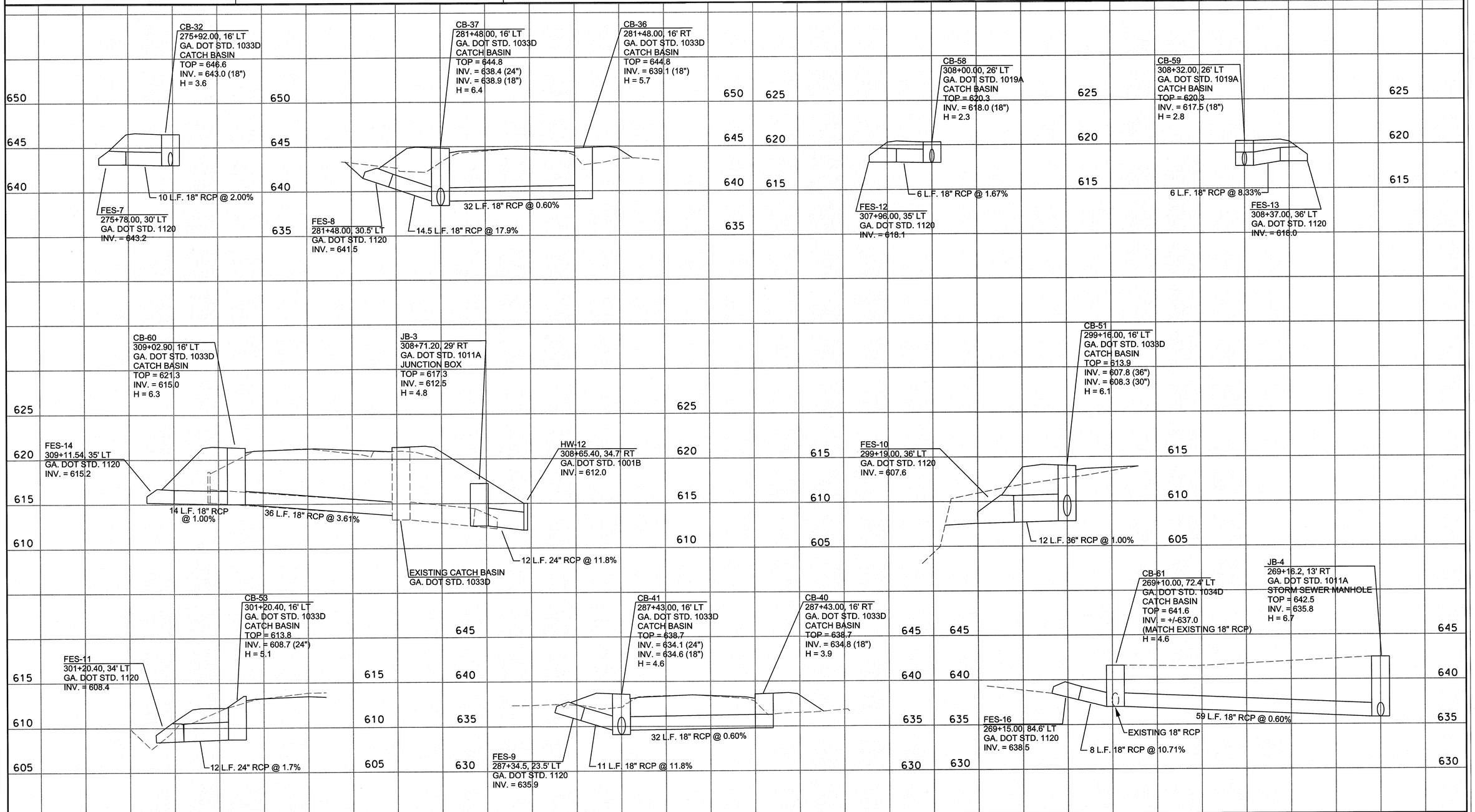
ISSUED FOR BID:
9/9/2016
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

DRAINAGE PROFILES

DRAWING No.
22-01

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD		



GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29573 CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
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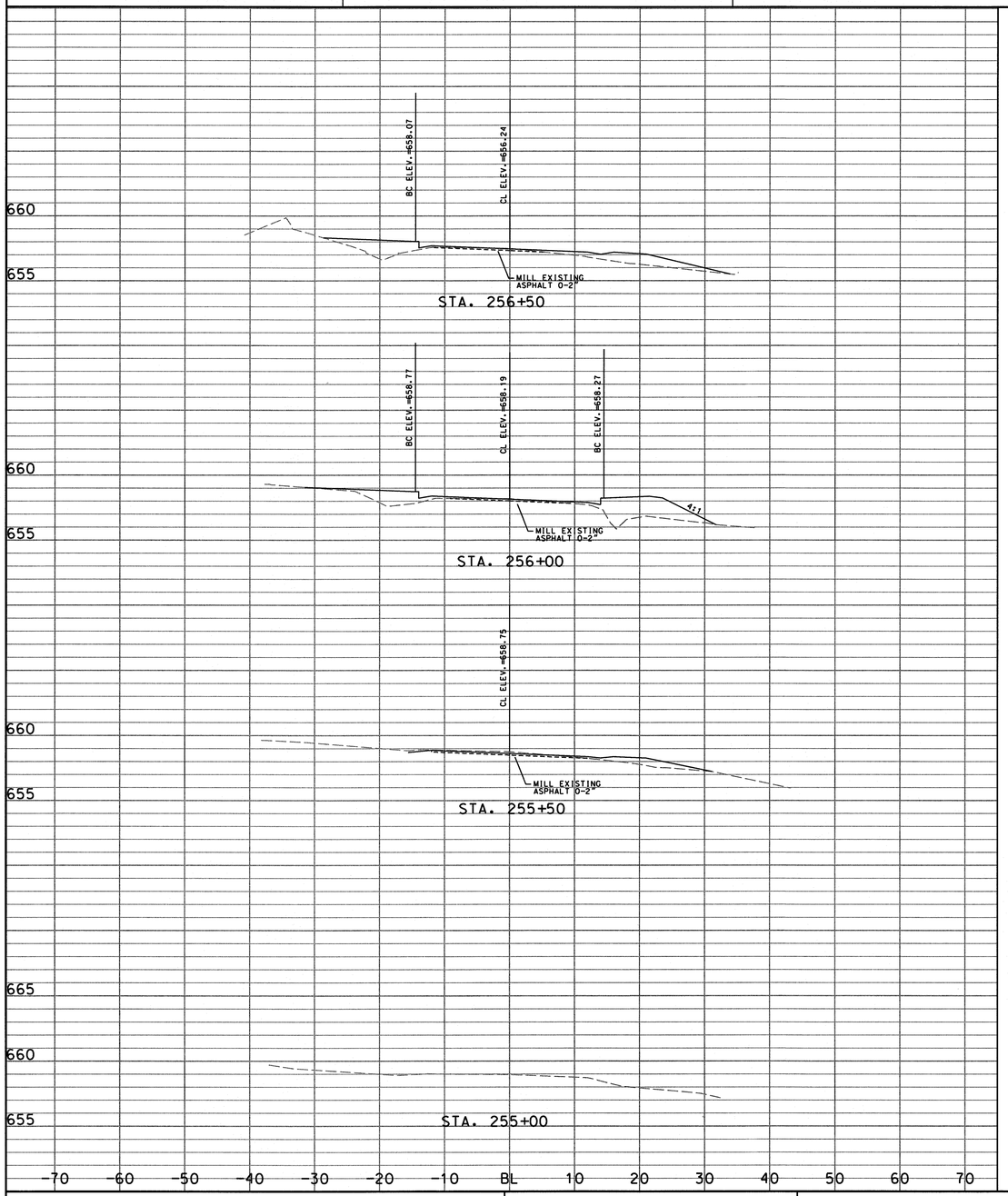
ISSUED FOR BID:
9/9/2016
REVISION DATES:

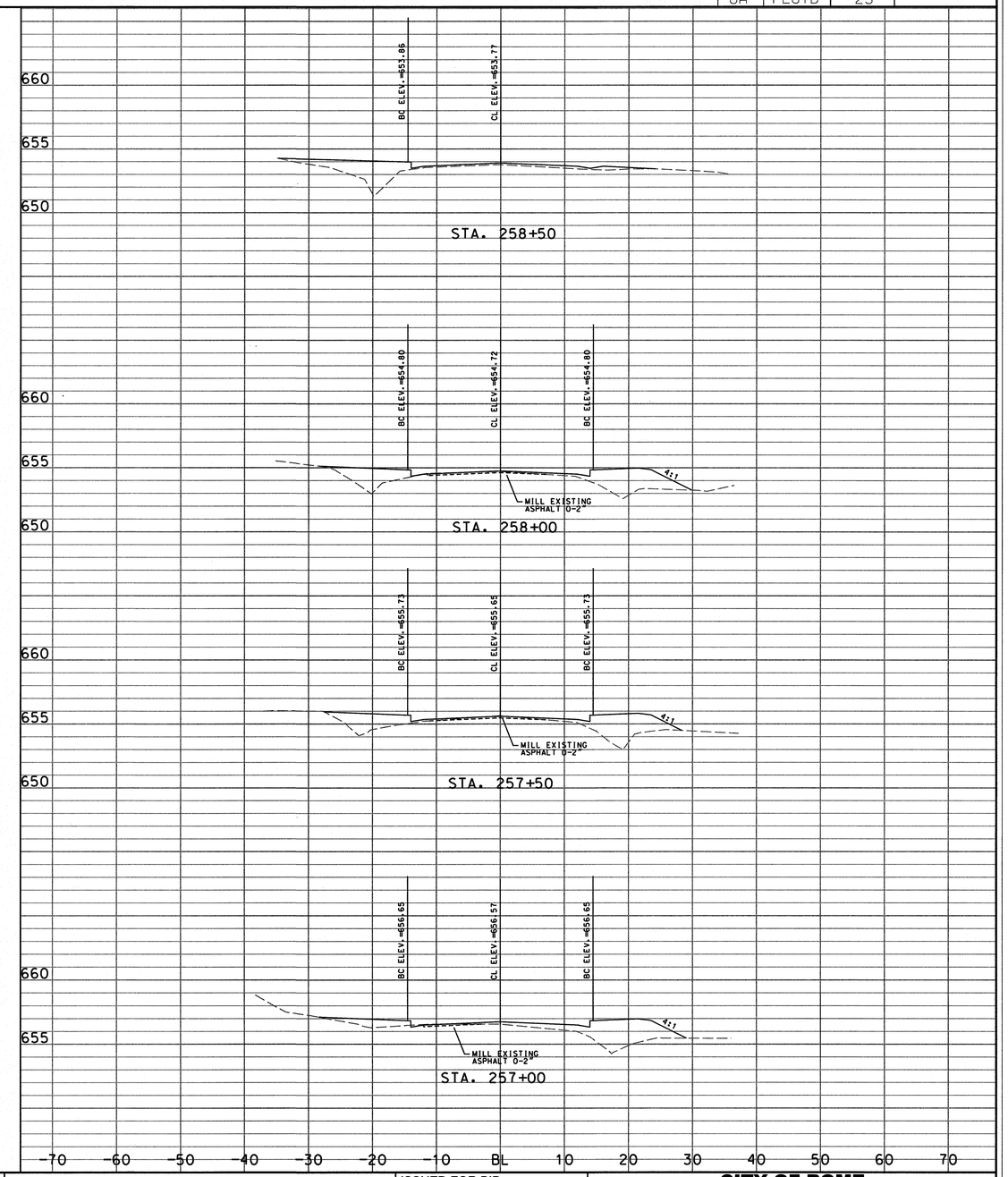
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

DRAINAGE PROFILES

DRAWING No.
22-02

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED No. 29579 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

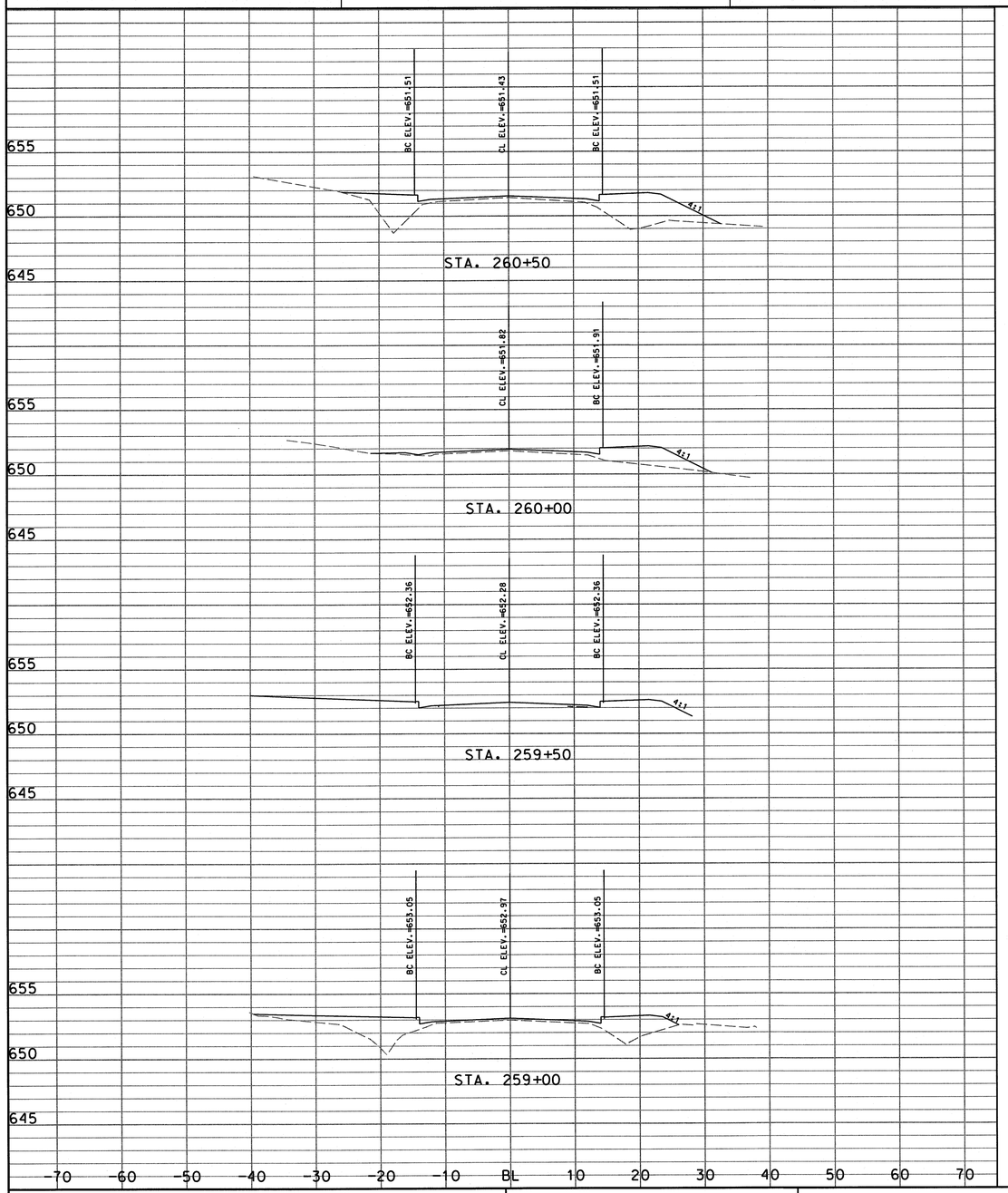
ISSUED FOR BID:
9/9/2016
REVISION DATES:

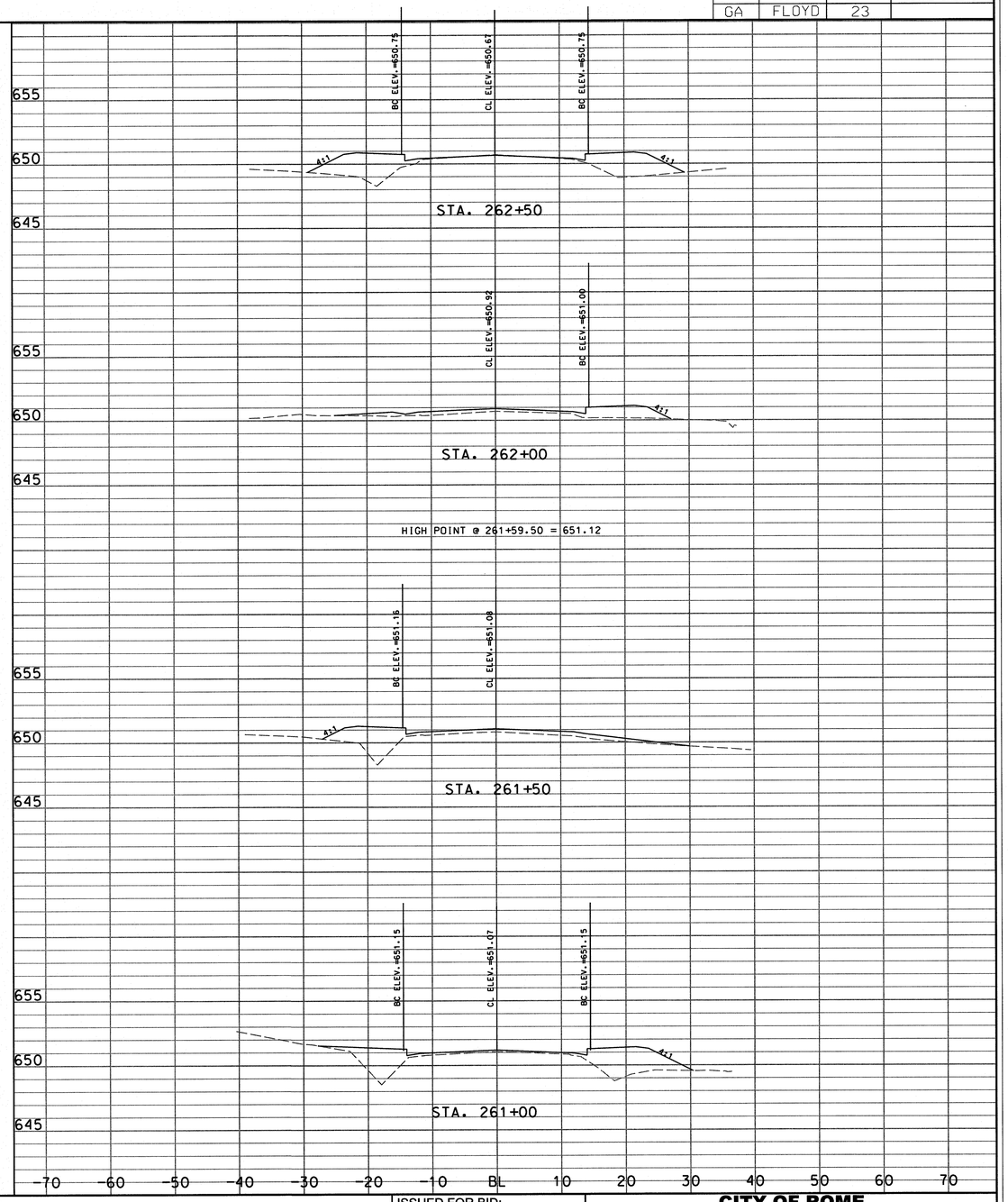
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 255+00 TO STA. 258+50

DRAWING No.
23-01

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED No. 19579 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

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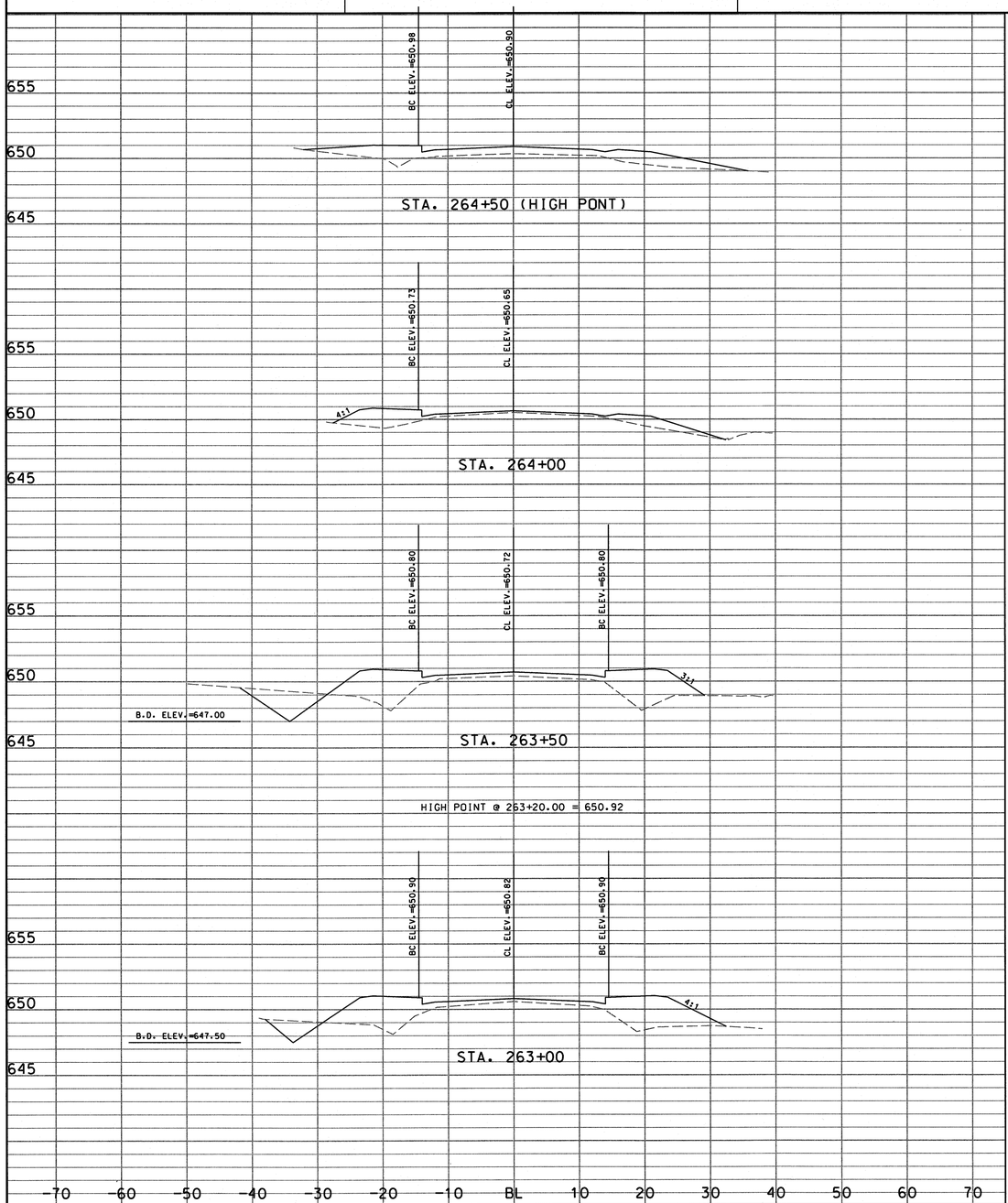
9/9/2016
REVISION DATES:

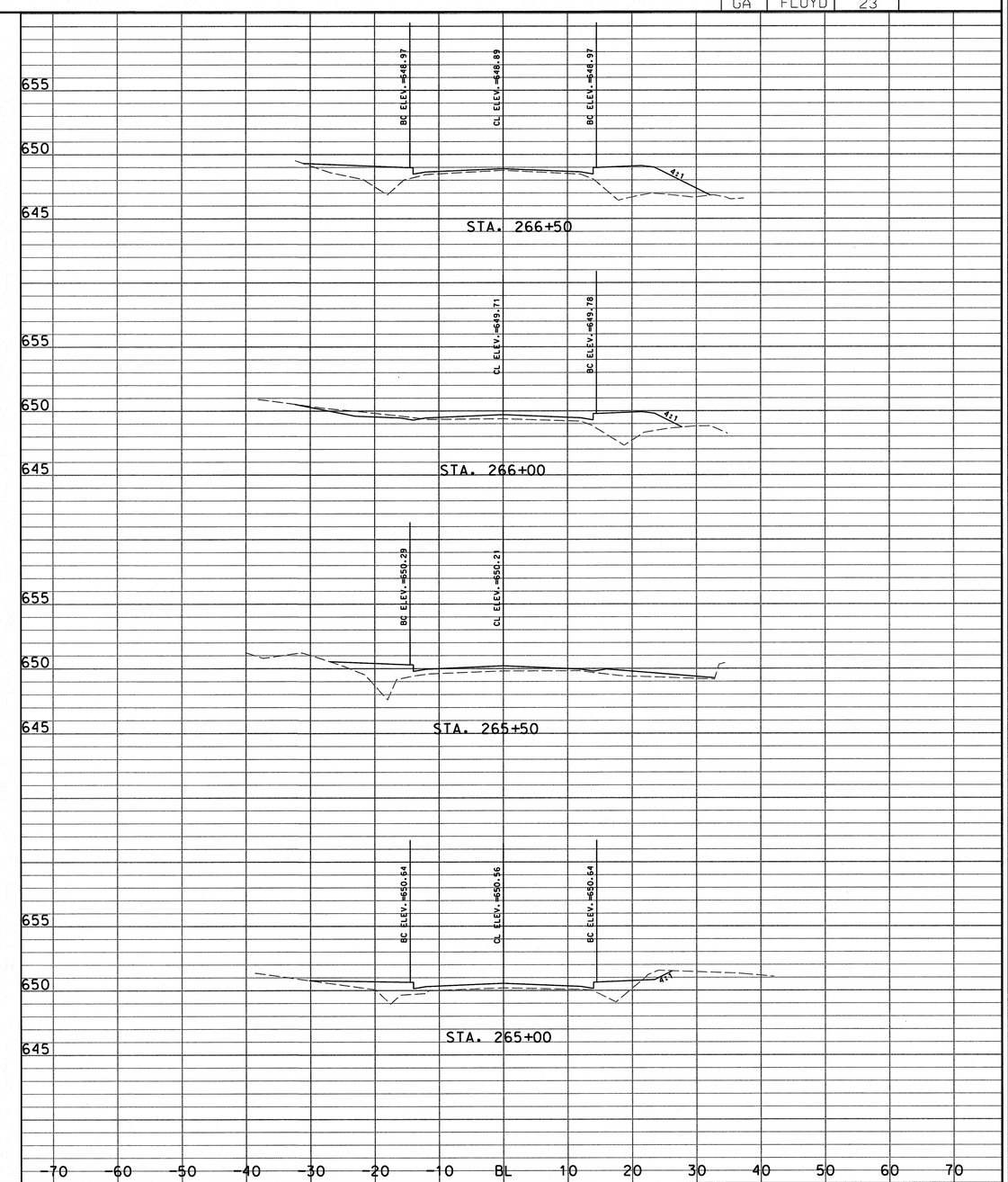
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 259+00 TO STA. 262+50

DRAWING No.
23-02

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29516 CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

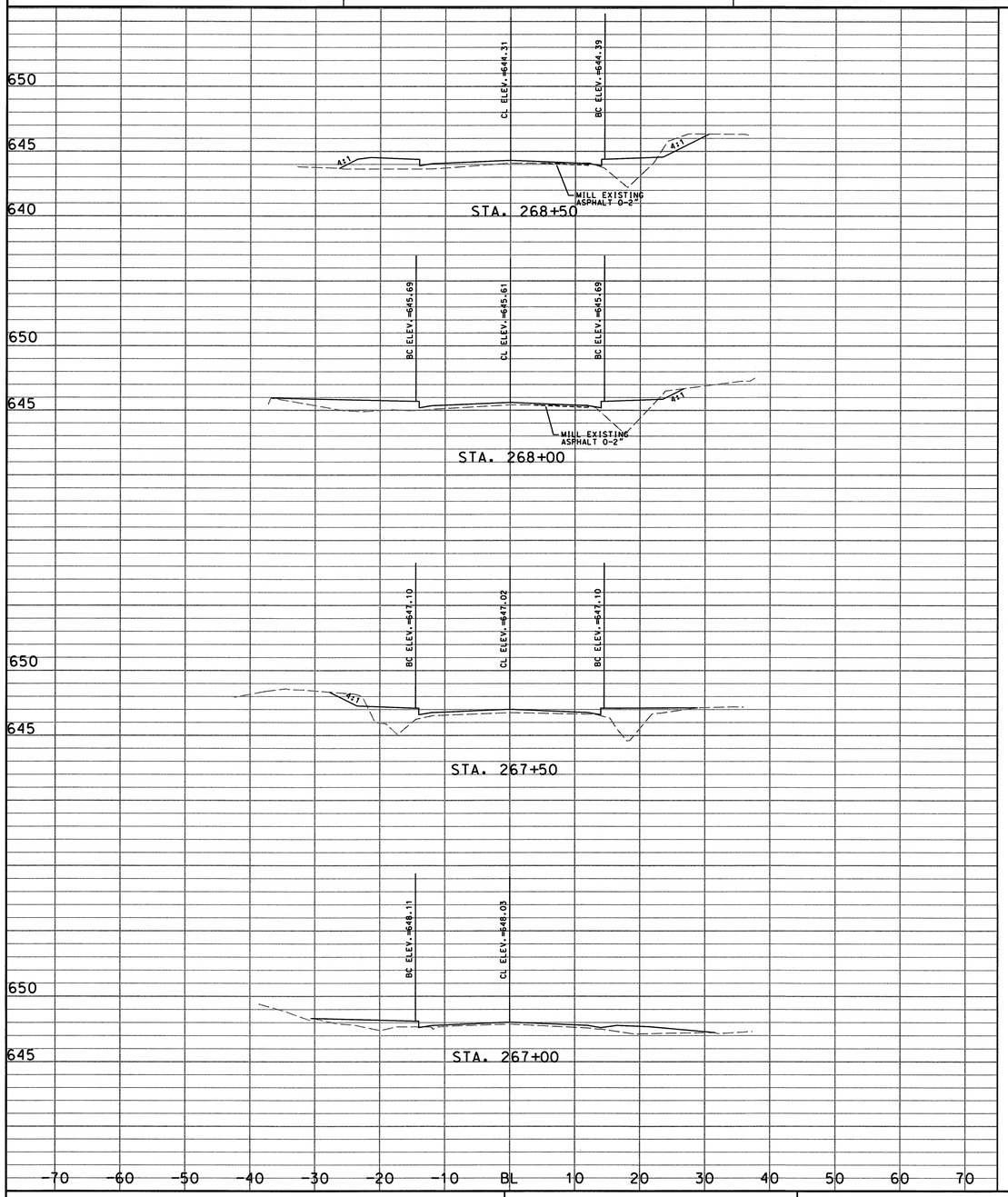
ISSUED FOR BID:
9/9/2016
REVISION DATES:

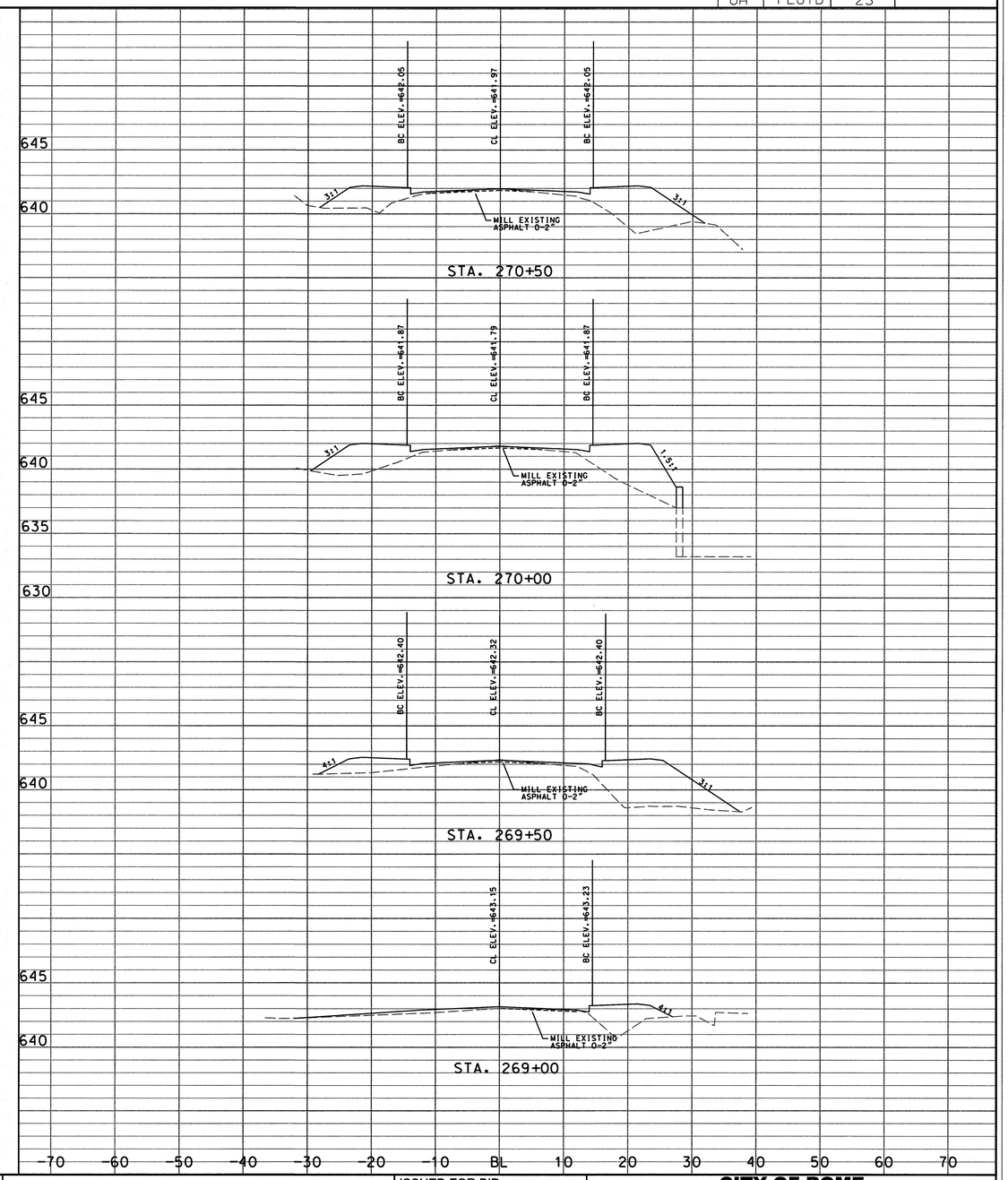
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 263+00 TO STA. 266+50

DRAWING No.
23-03

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED No. 19519 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.
9-9-16

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
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Rome, Georgia 30161
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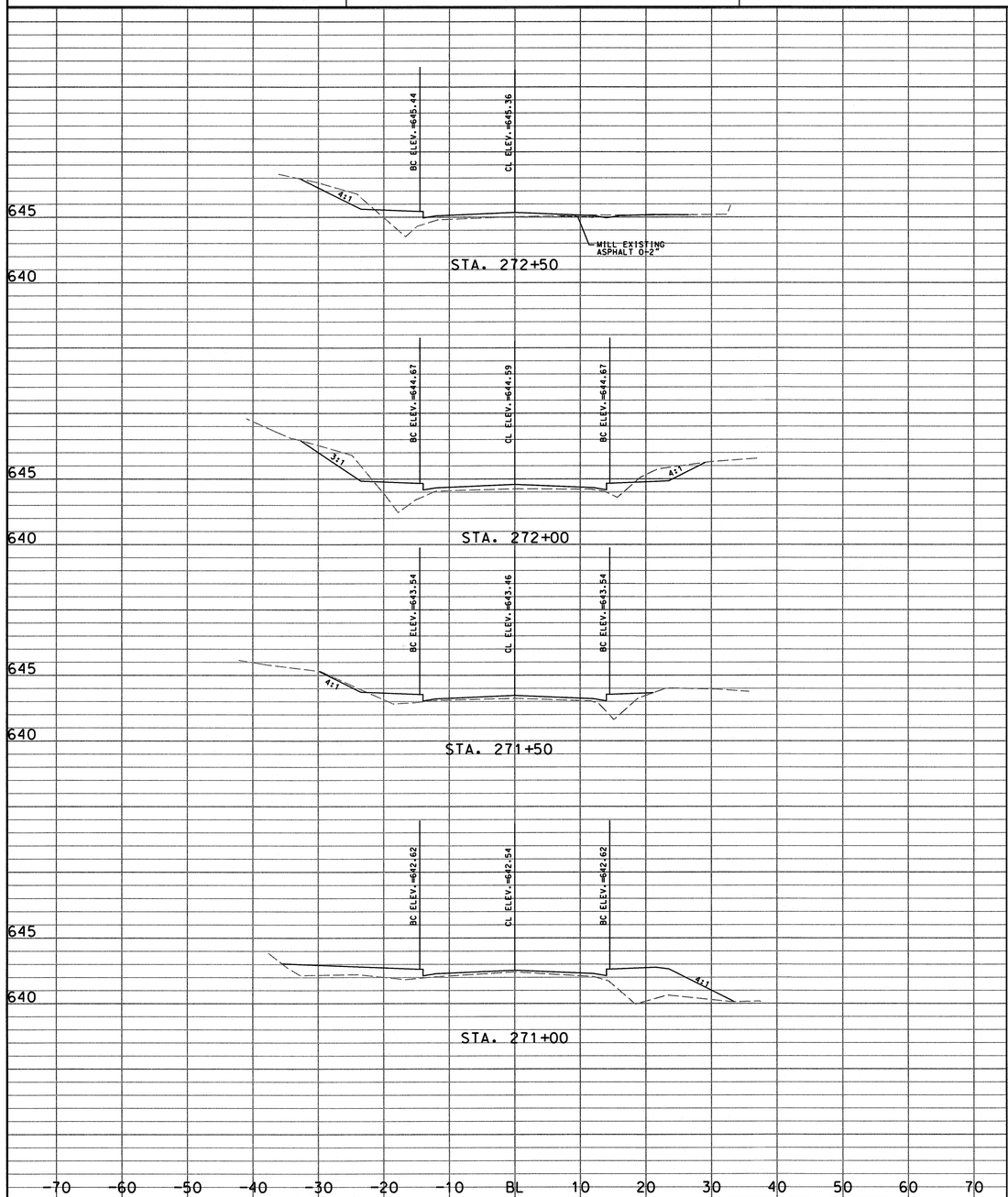
ISSUED FOR BID:
9/9/2016
REVISION DATES:

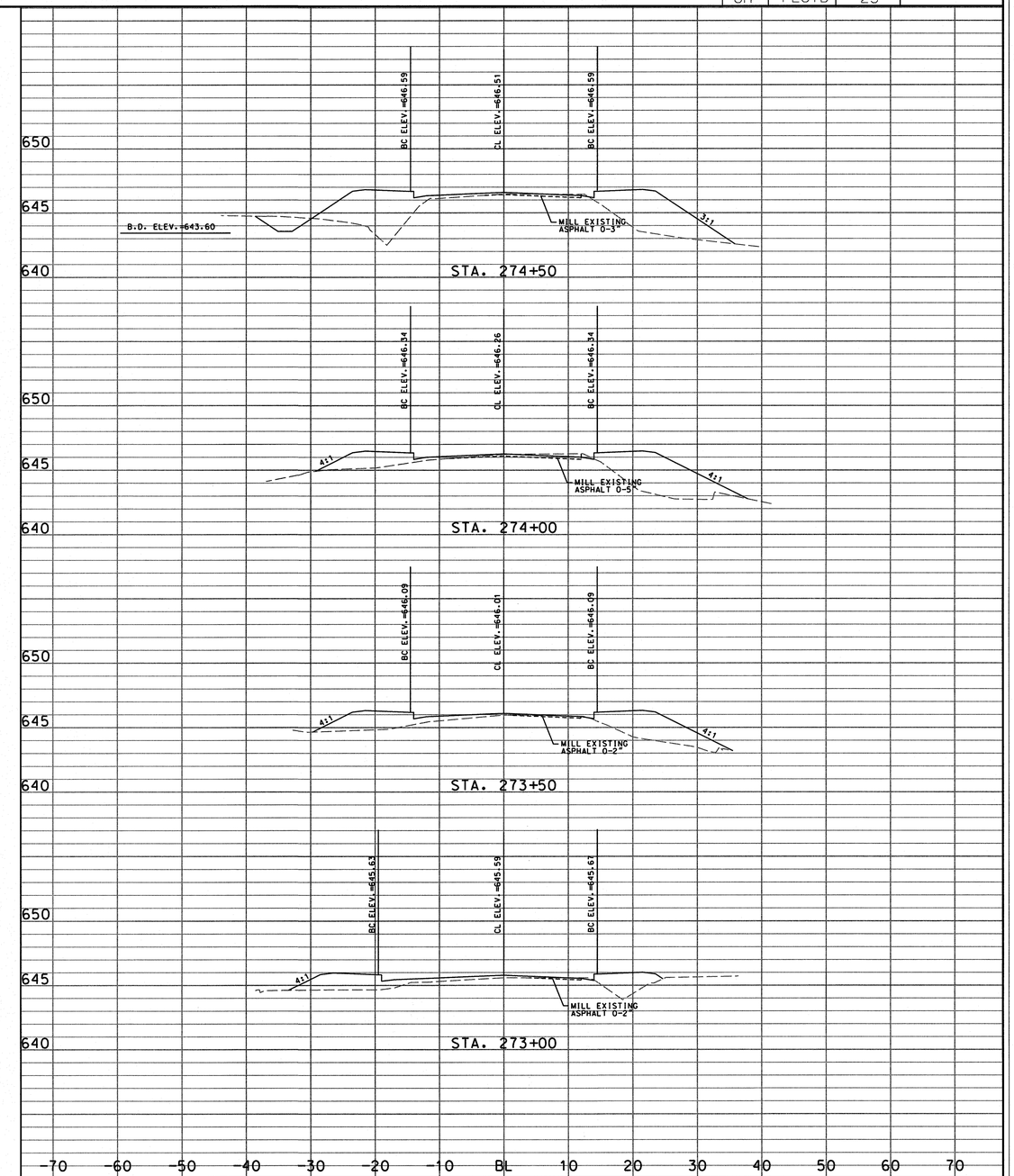
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 267+00 TO STA. 270+50

DRAWING No.
23-04

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29579 CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
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Rome, Georgia 30161
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www.southernEandS.com

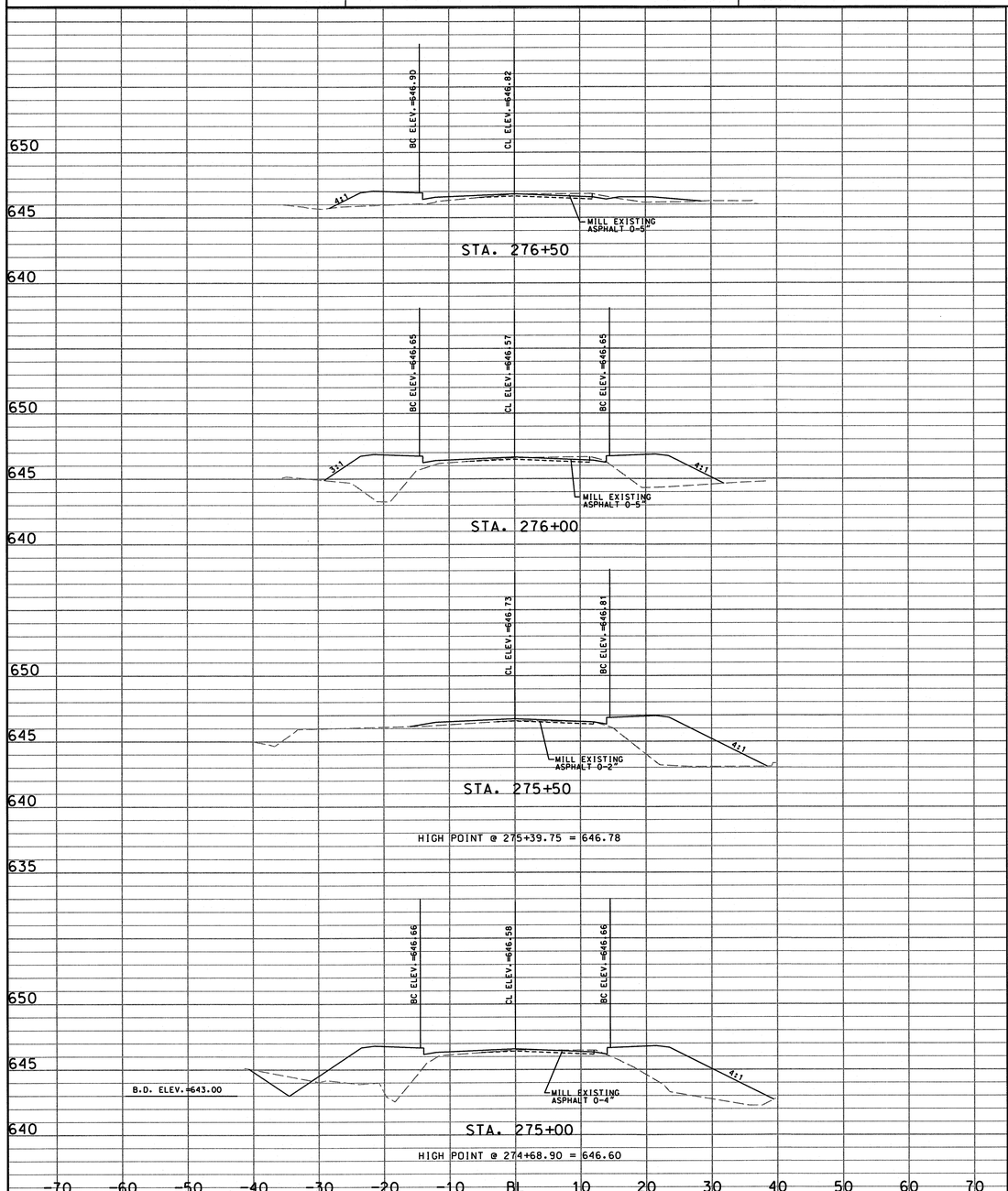
ISSUED FOR BID:
9/9/2016
REVISION DATES:

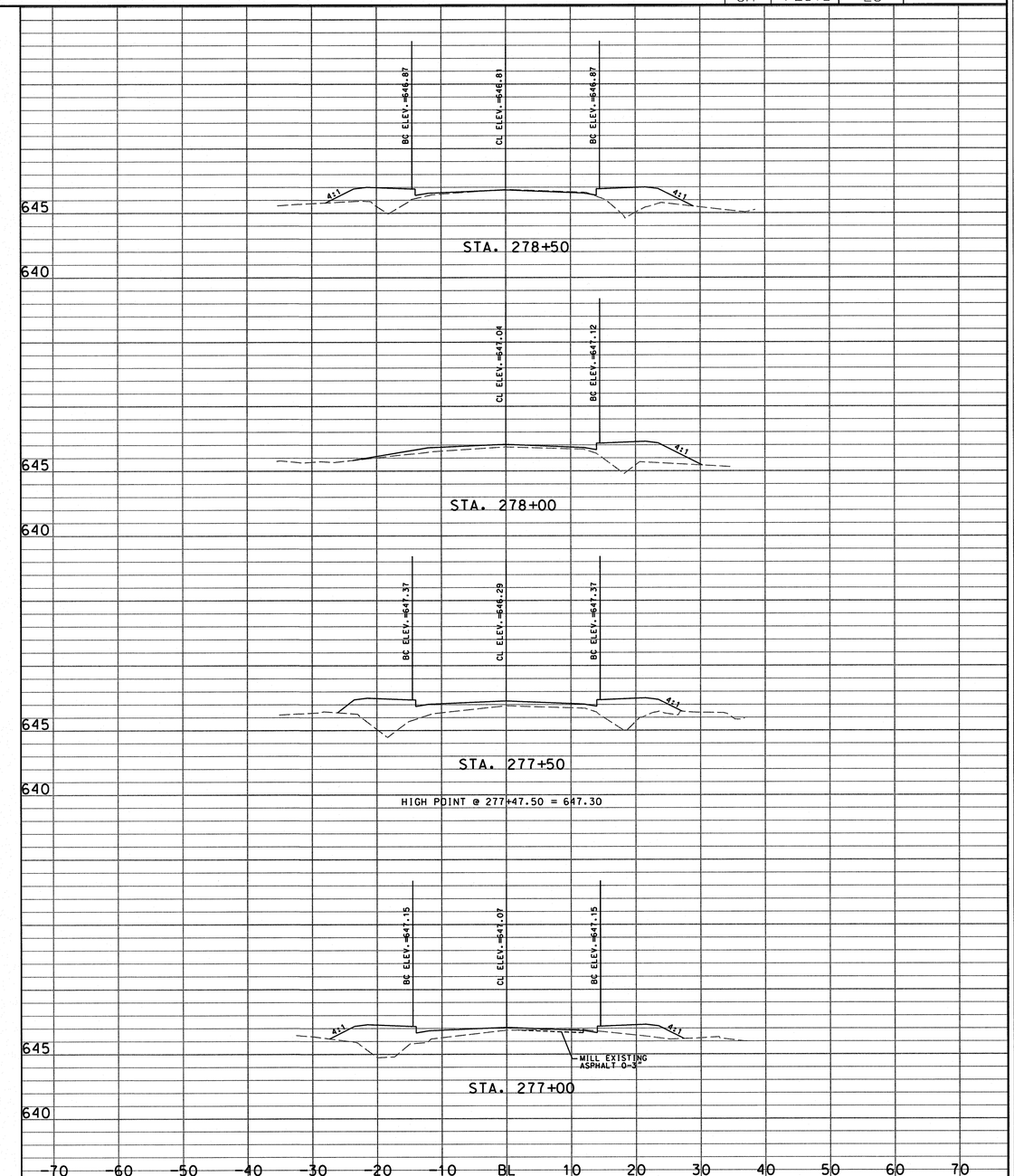
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 271+00 TO STA. 274+50

DRAWING No.
23-05

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19519 CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
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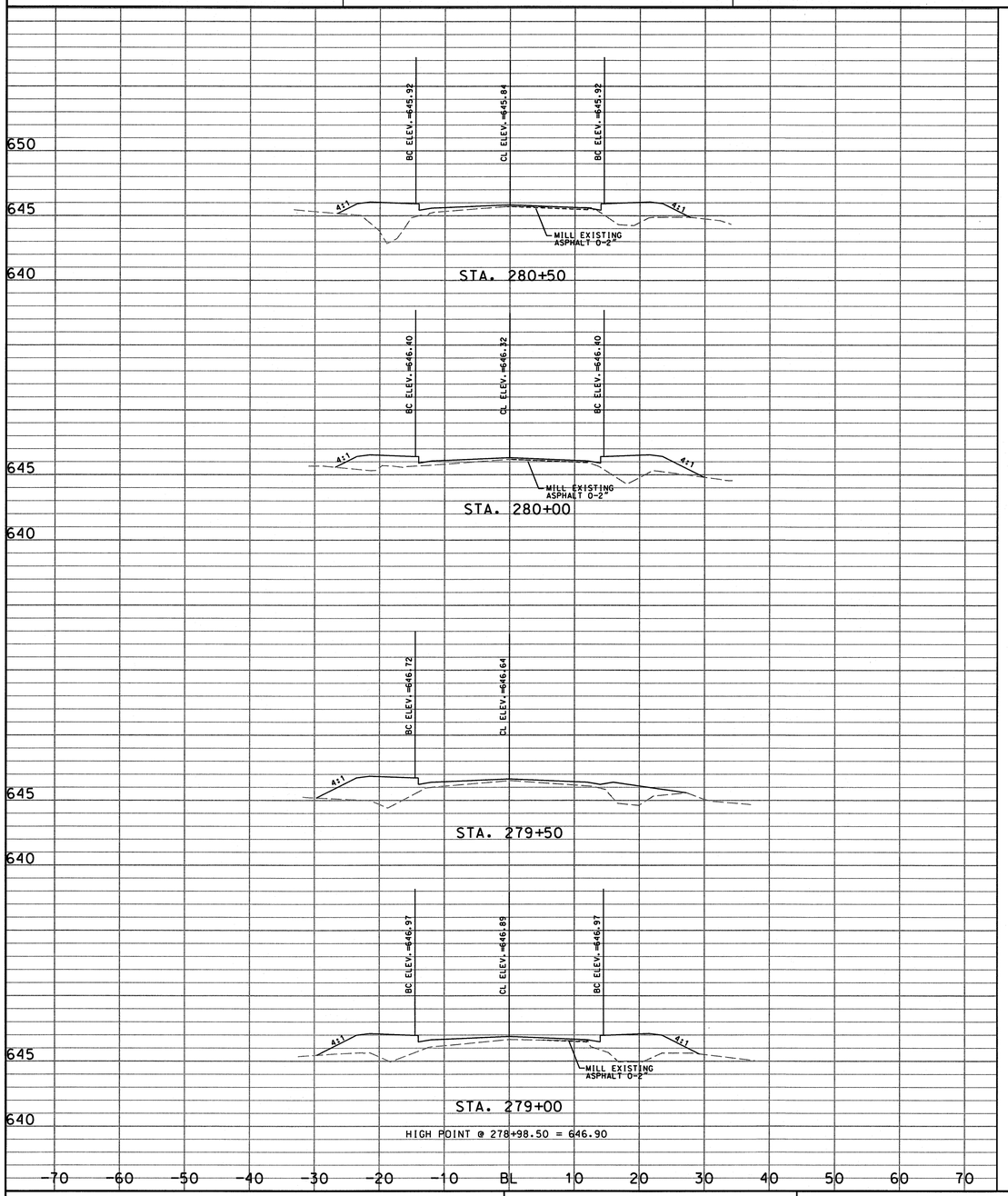
ISSUED FOR BID:
9/9/2016
REVISION DATES:

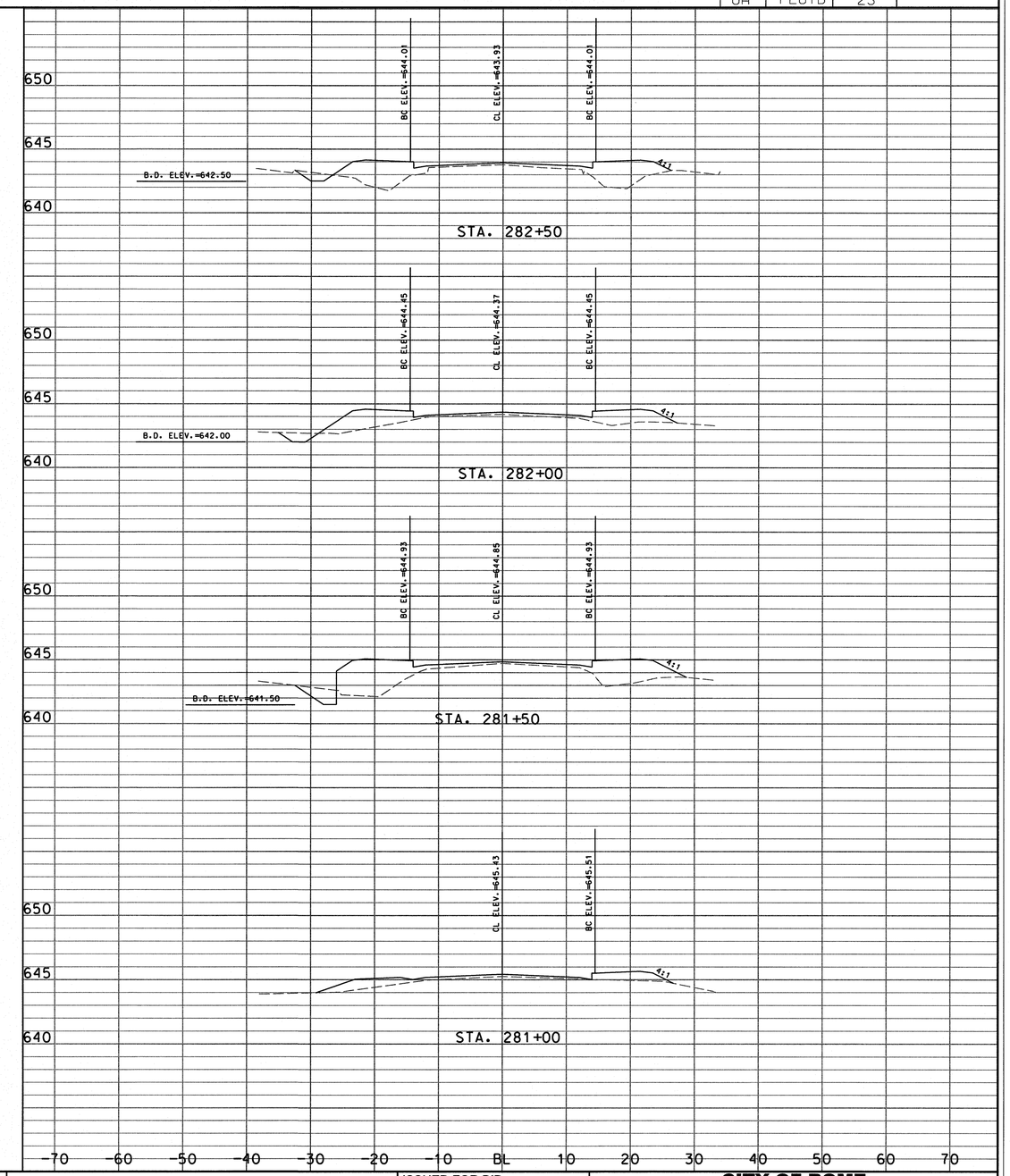
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 275+00 TO STA. 278+50

DRAWING No.
23-06

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29870 CHARLES F. HARDIN, JR.
9-9-16

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
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www.southernEandS.com

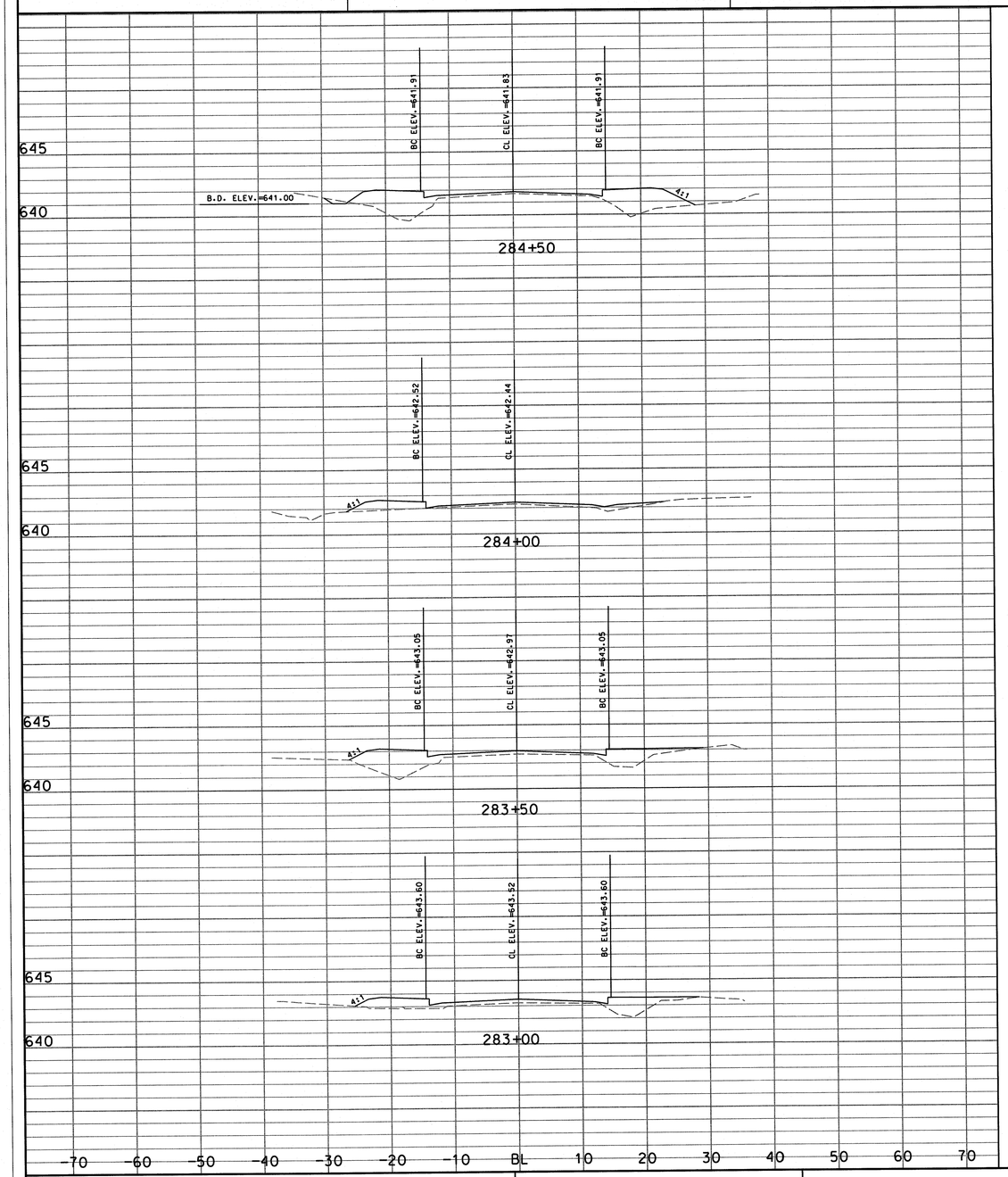
ISSUED FOR BID:
9/9/2016
REVISION DATES:

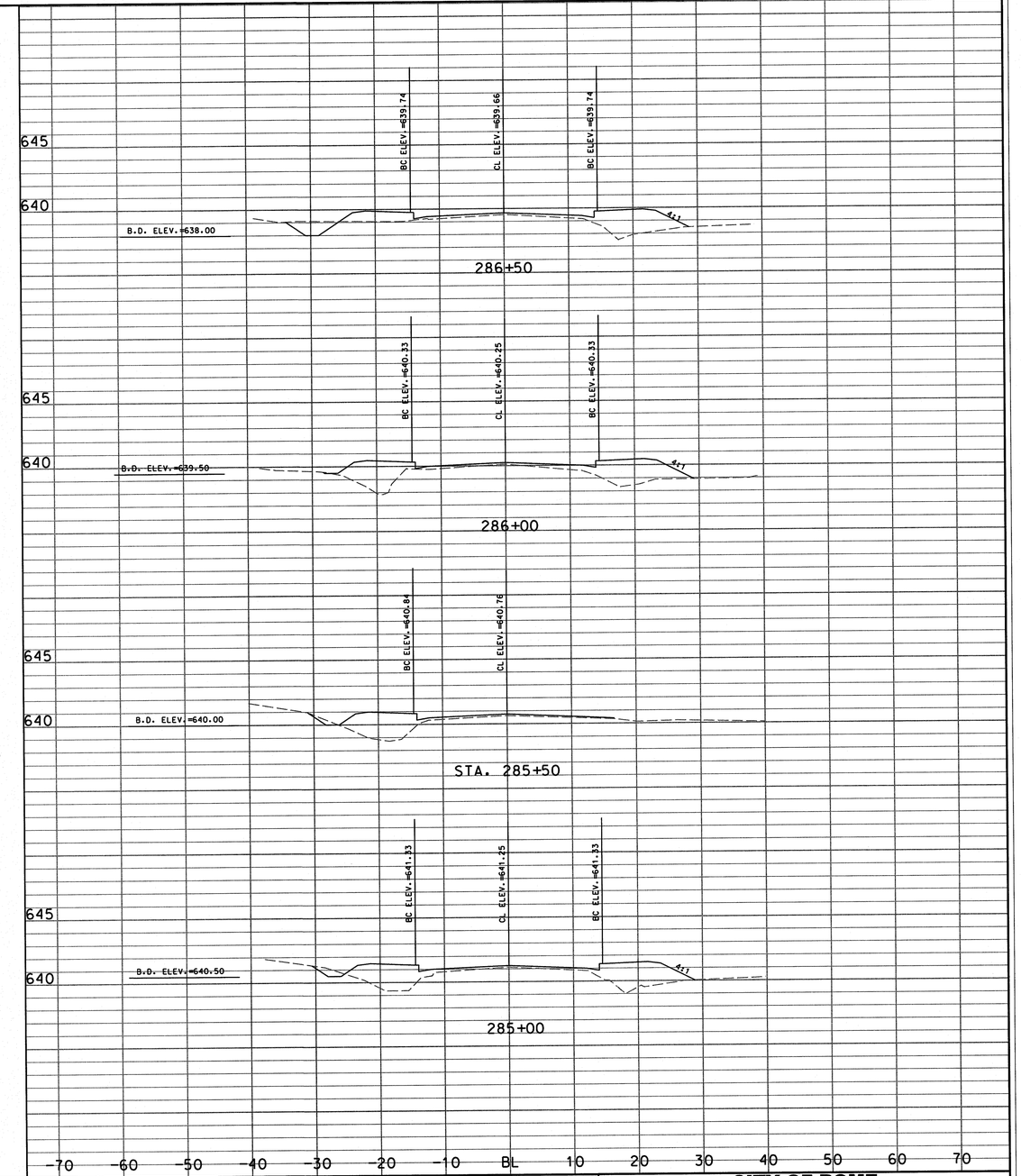
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 279+00 TO STA. 282+50

DRAWING No.
23-07

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29512 CHARLES F. HARDIN, JR.
9-9-16

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
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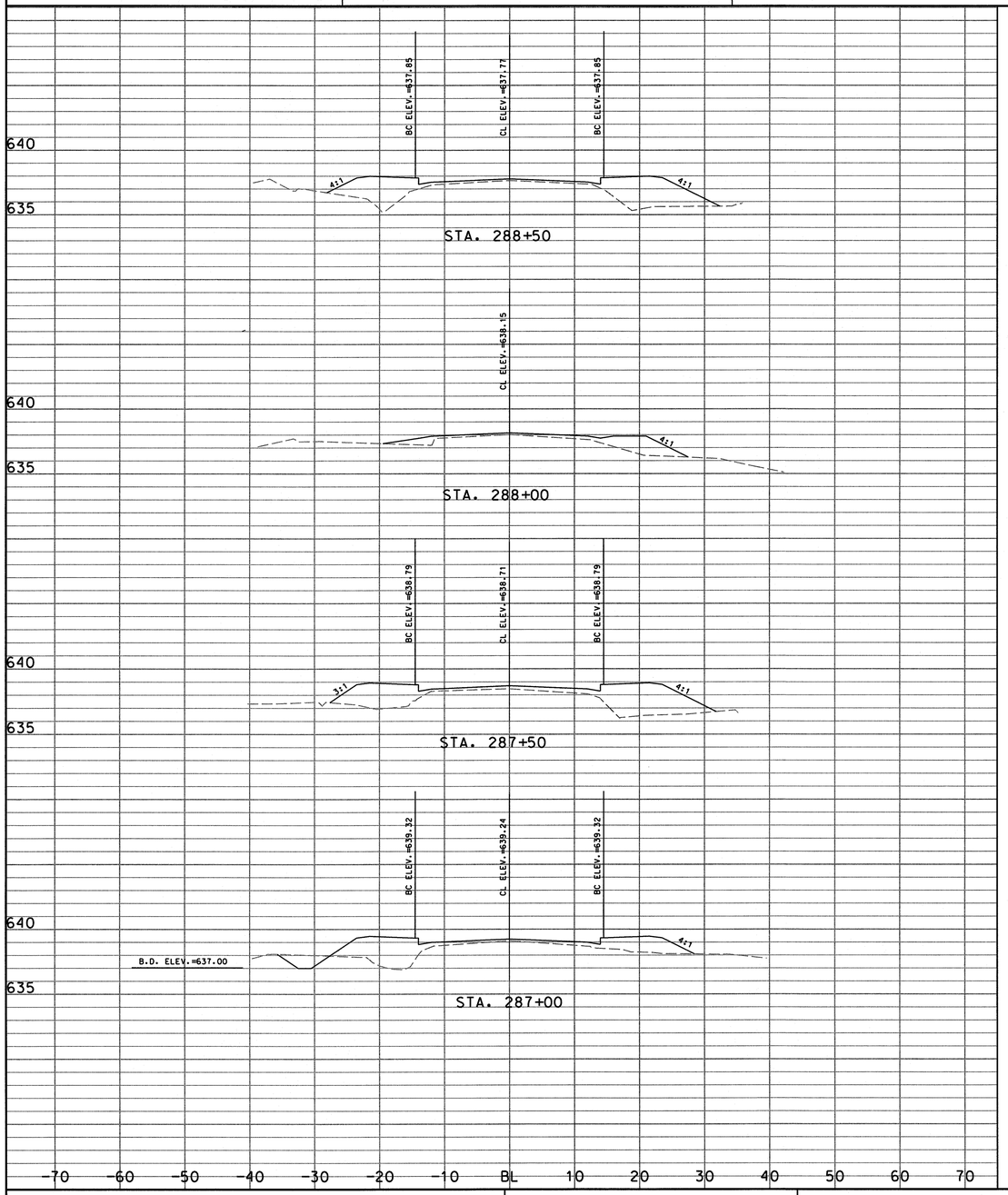
www.southernEandS.com

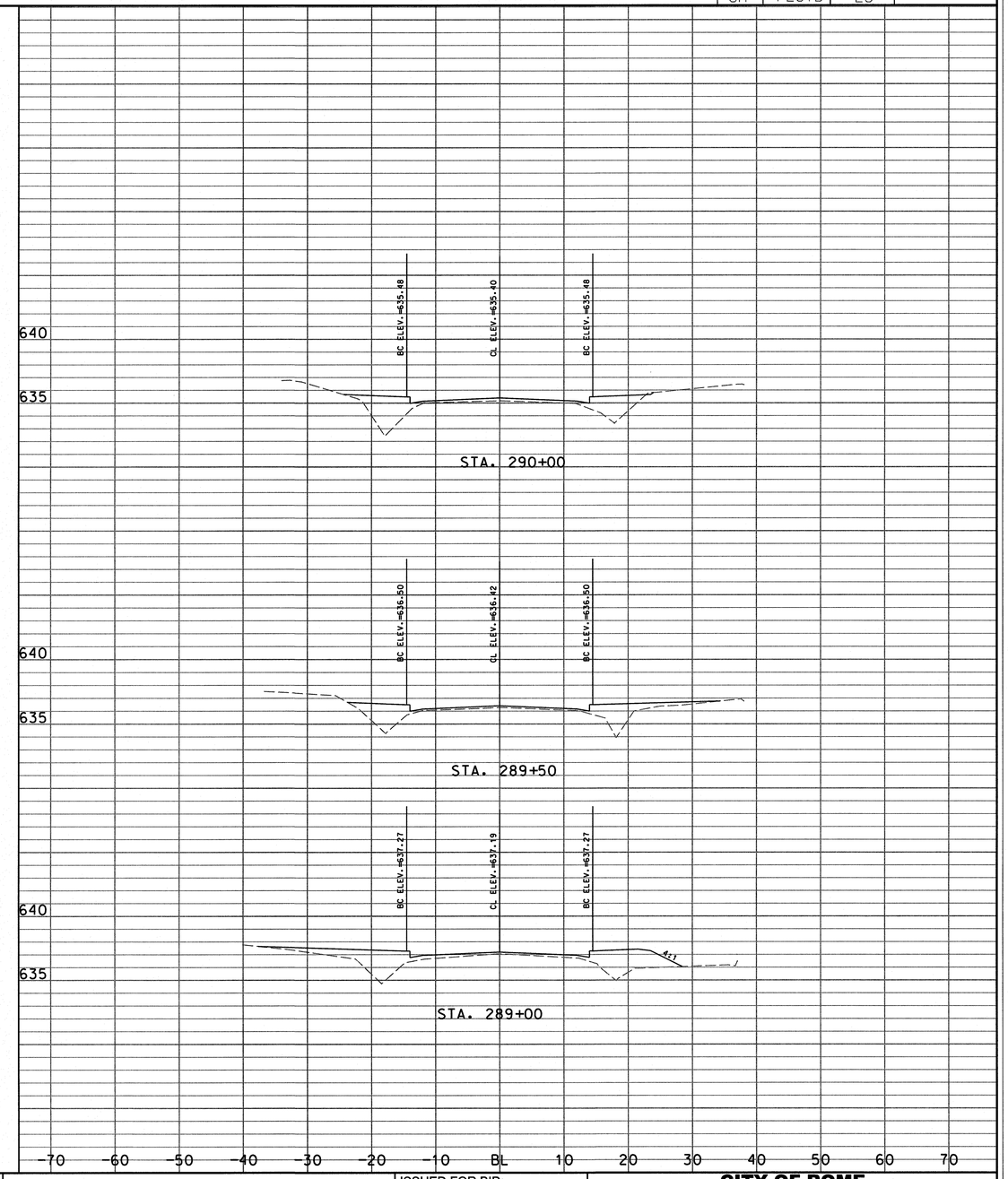
ISSUED FOR BID:
9/9/2016
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD
CROSS SECTIONS
STA. 283+00 TO STA. 286+50

DRAWING No.
23-08

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29513 CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

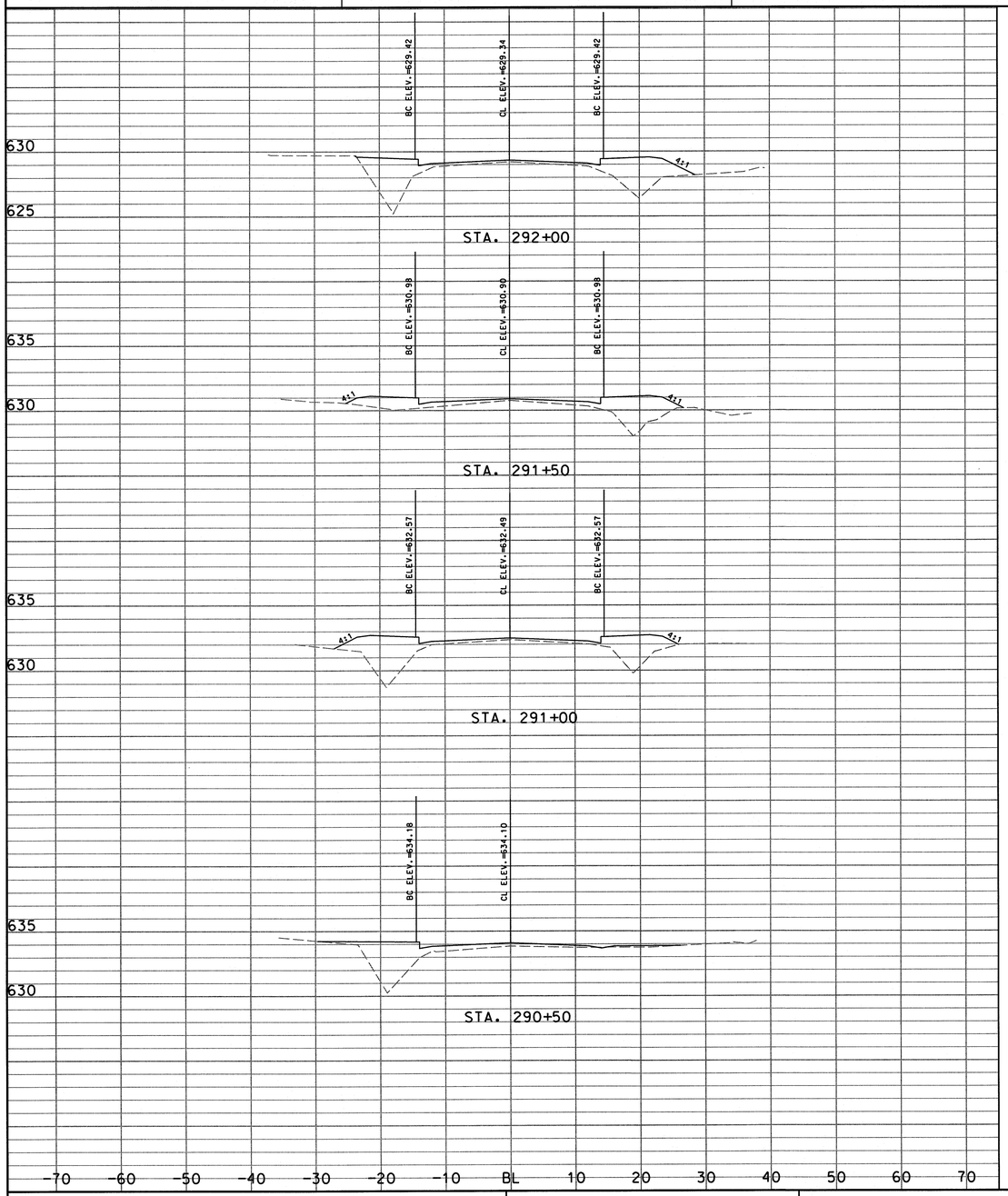
ISSUED FOR BID:
9/9/2016
REVISION DATES:

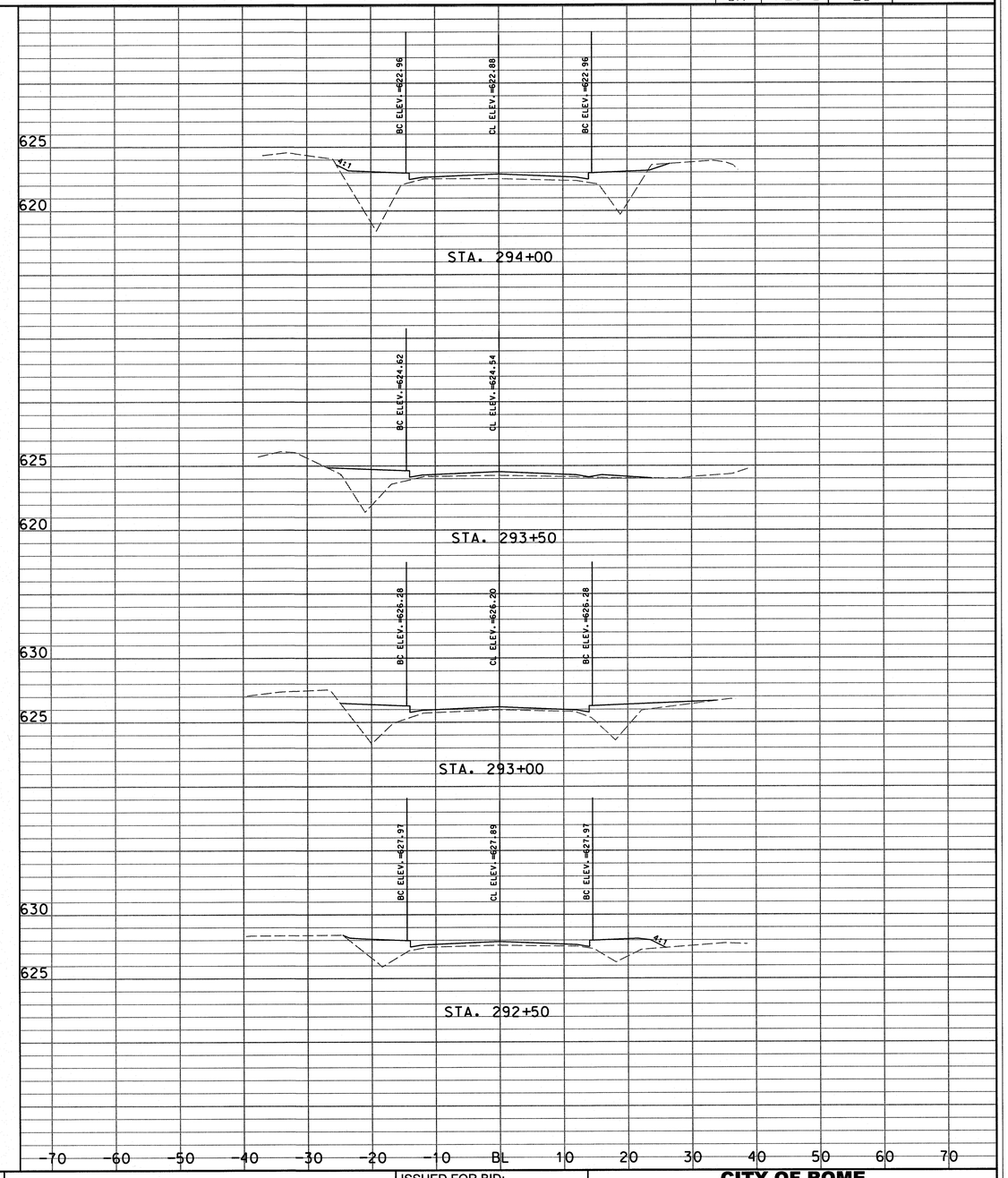
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 287+00 TO STA. 290+00

DRAWING No.
23-09

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED PROFESSIONAL ENGINEER 29515 CHARLES F. HARDIN, JR.
9-9-16

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

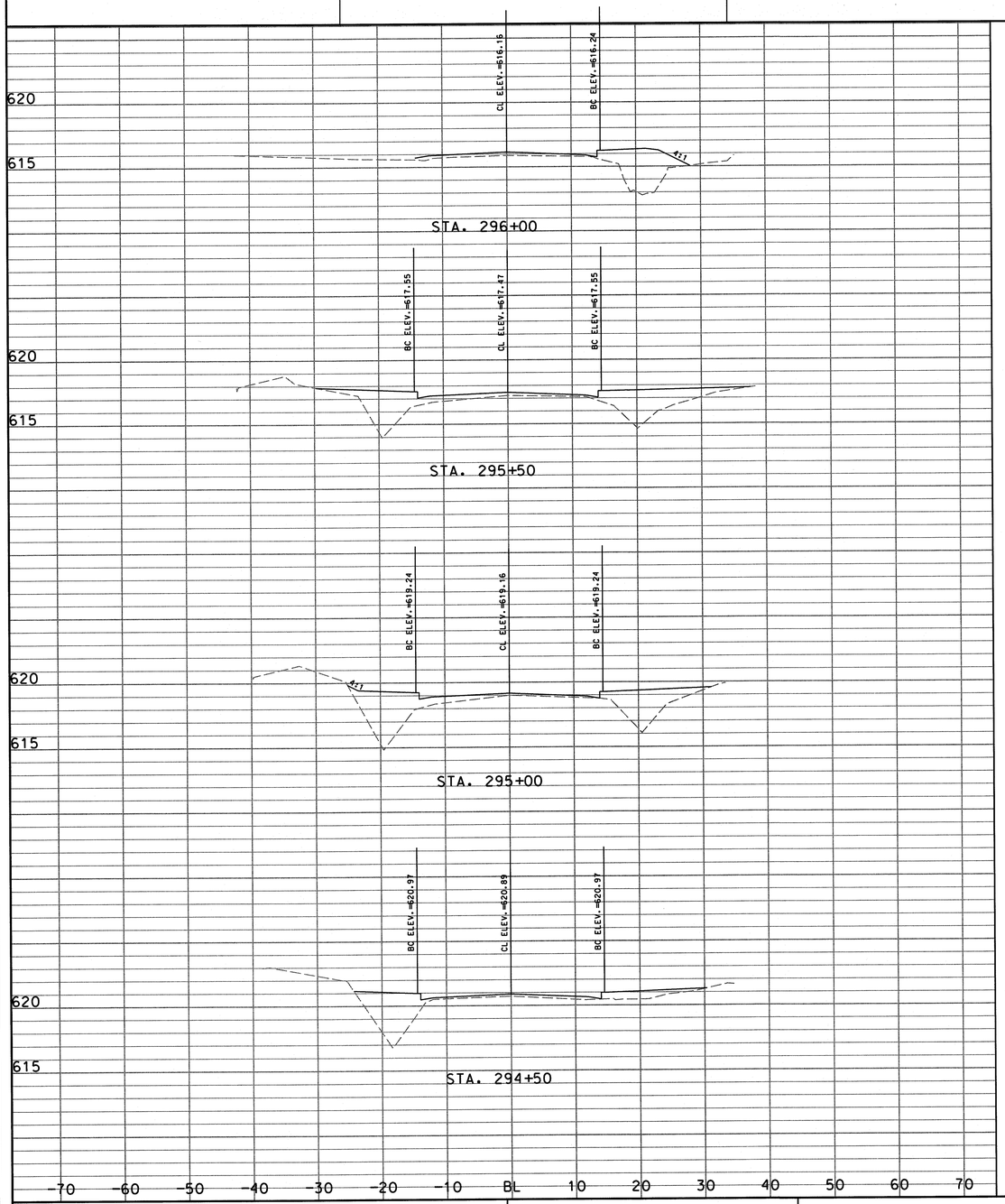
ISSUED FOR BID:
9/9/2016
REVISION DATES:

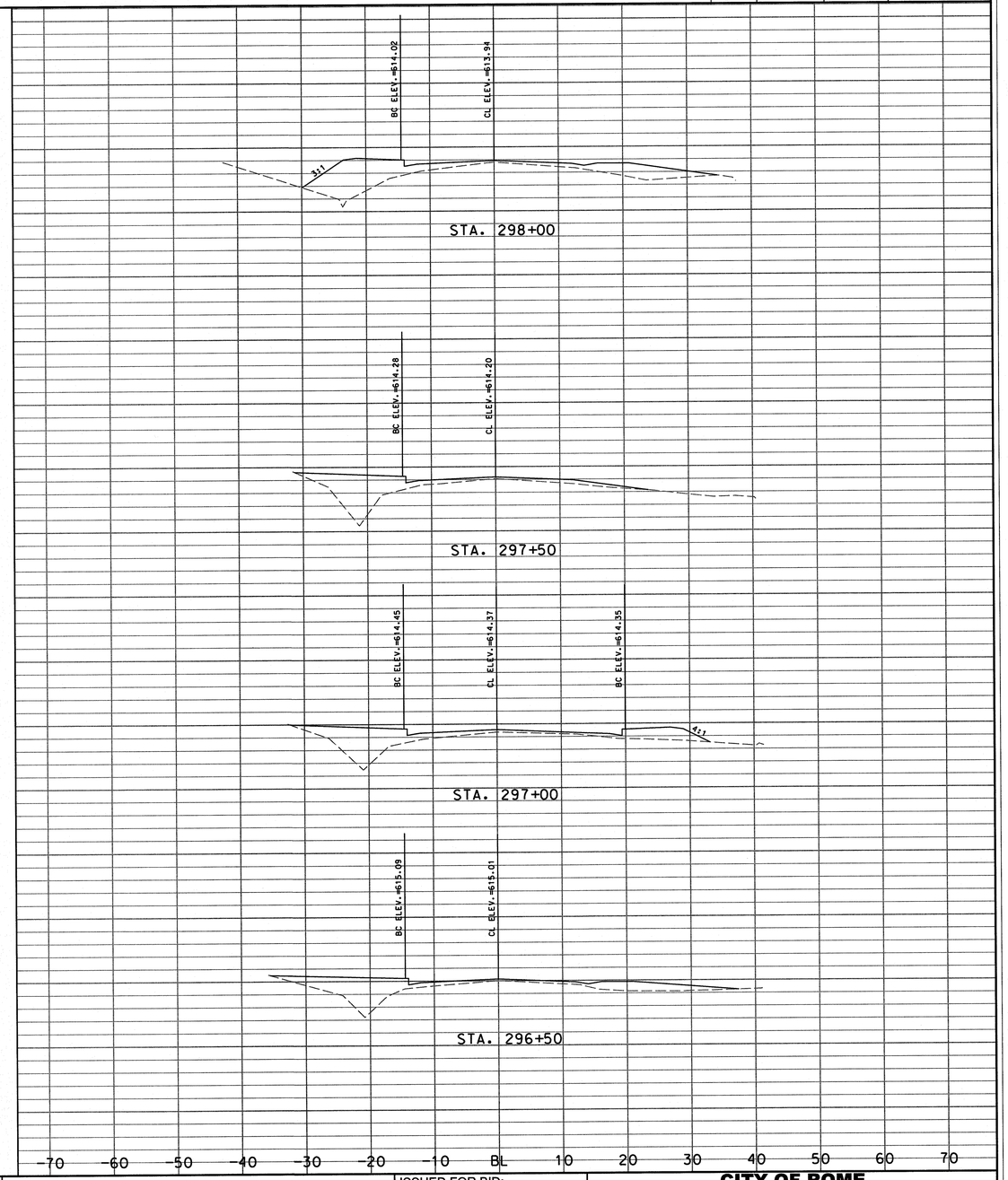
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 290+50 TO STA. 294+00

DRAWING No.
23-10

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED PROFESSIONAL ENGINEER 29570 9-9-16 CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

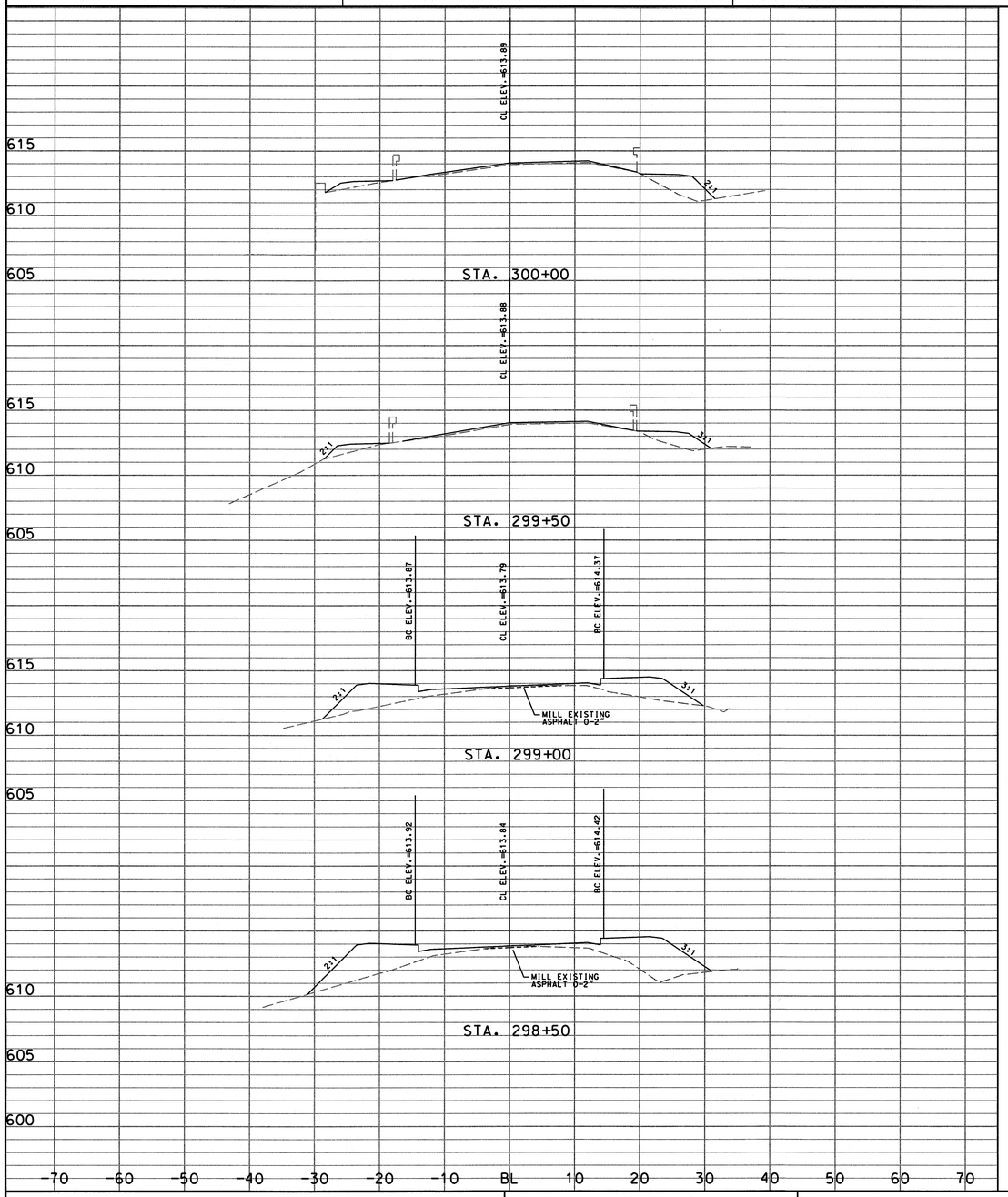
ISSUED FOR BID:
9/9/2016
REVISION DATES:

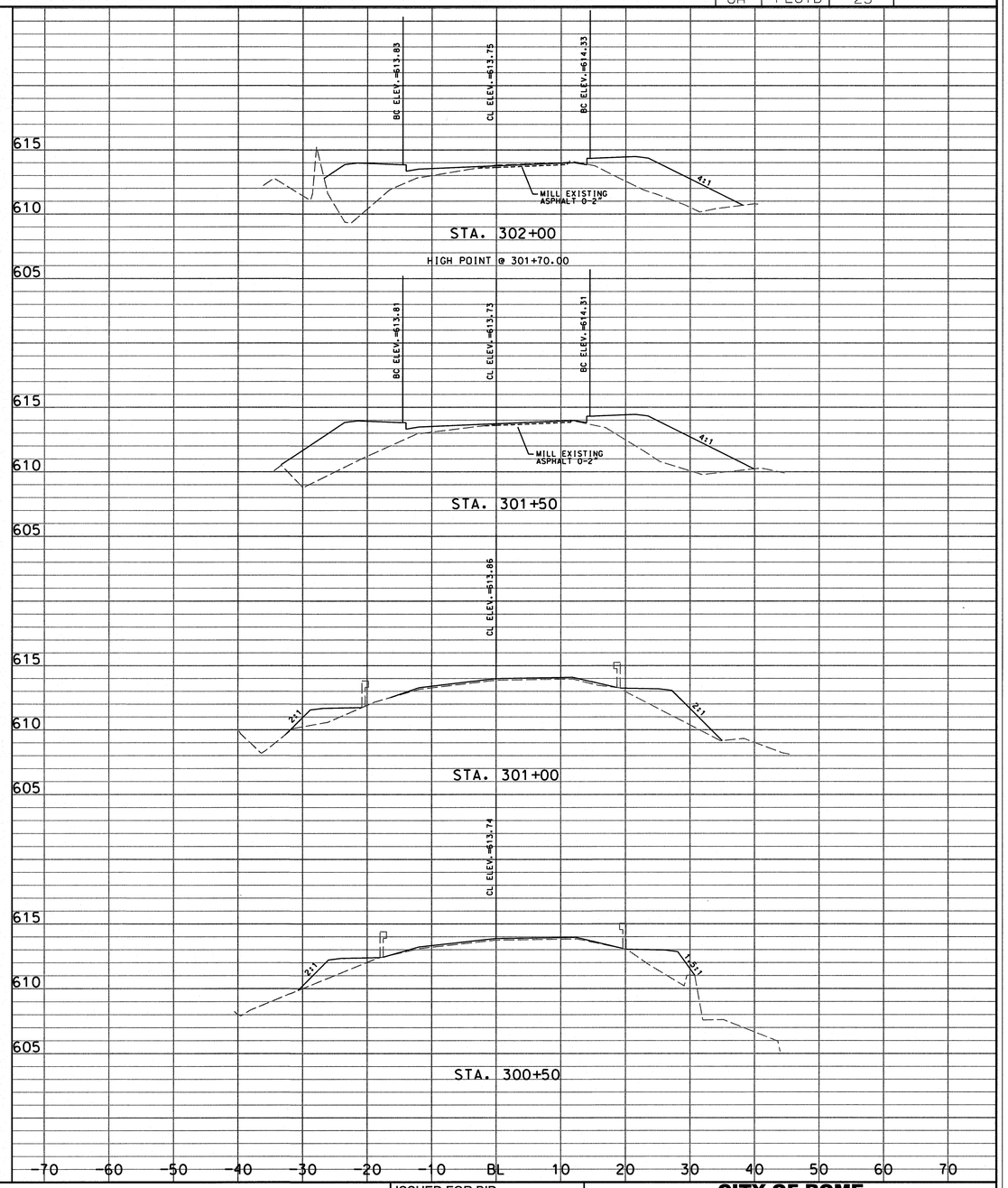
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 294+50 TO STA. 298+00

DRAWING No.
23-11

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19577 CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

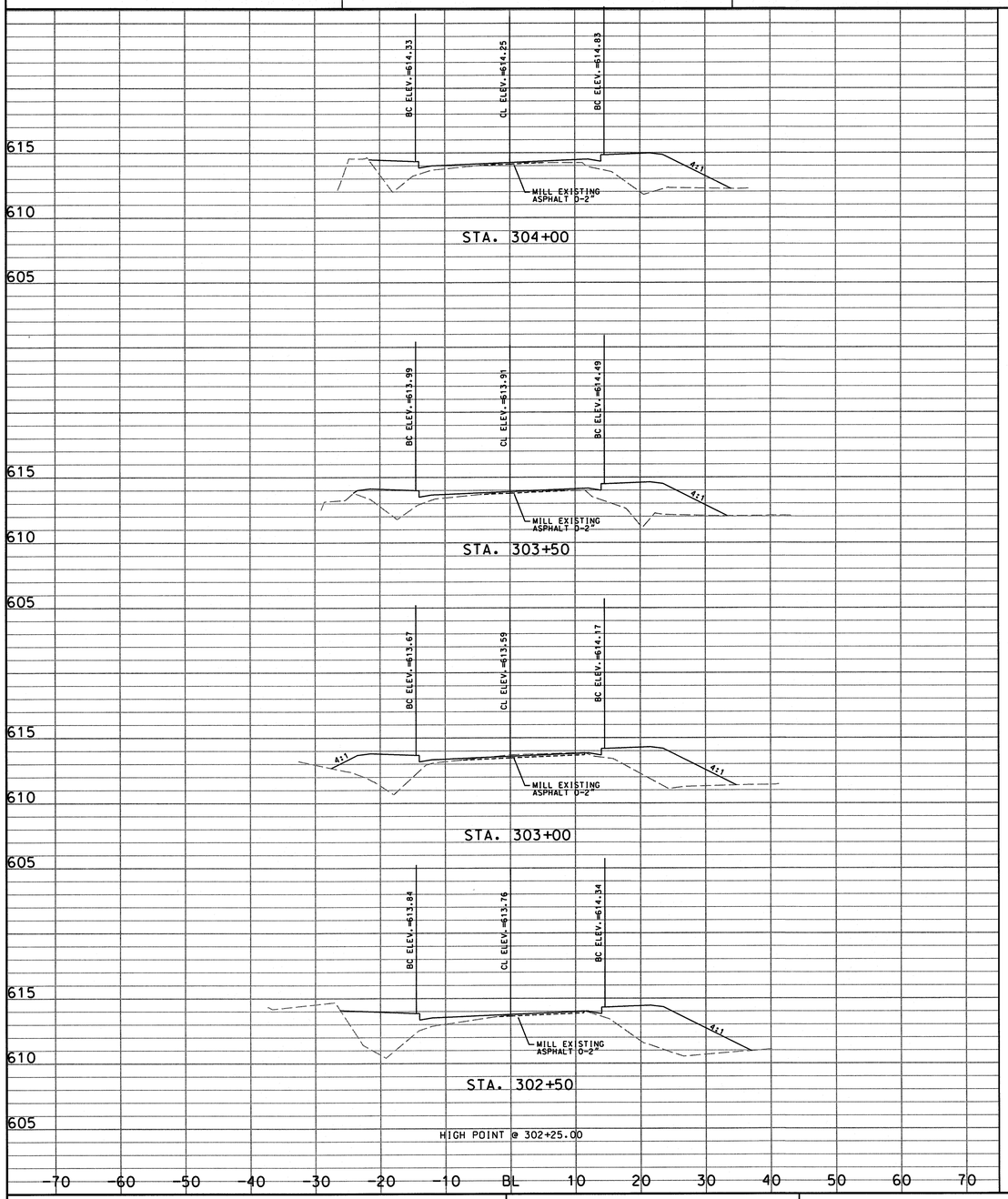
ISSUED FOR BID:
9/9/2016
REVISION DATES:

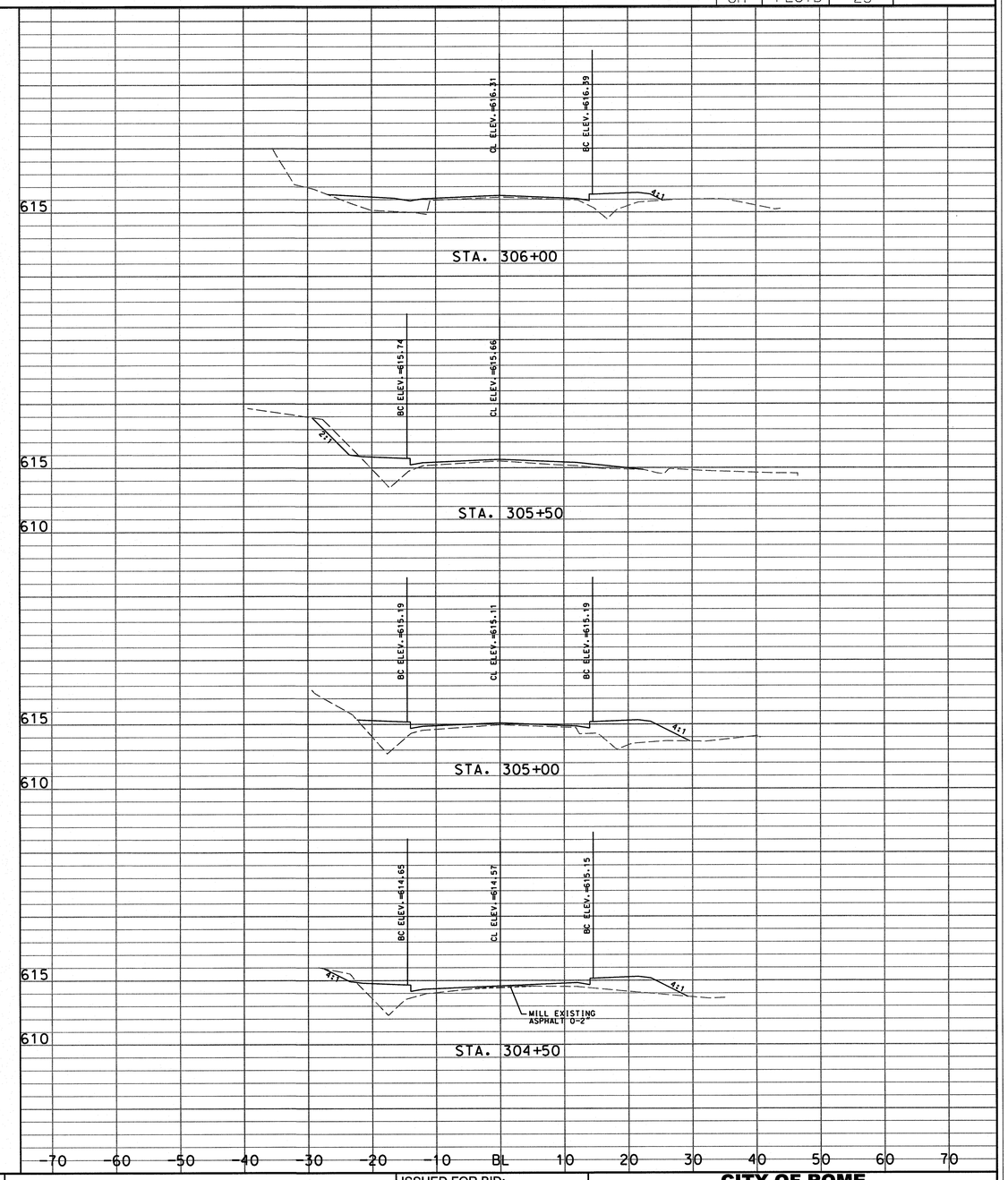
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 298+50 TO STA. 302+00

DRAWING No.
23-12

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED 29516 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

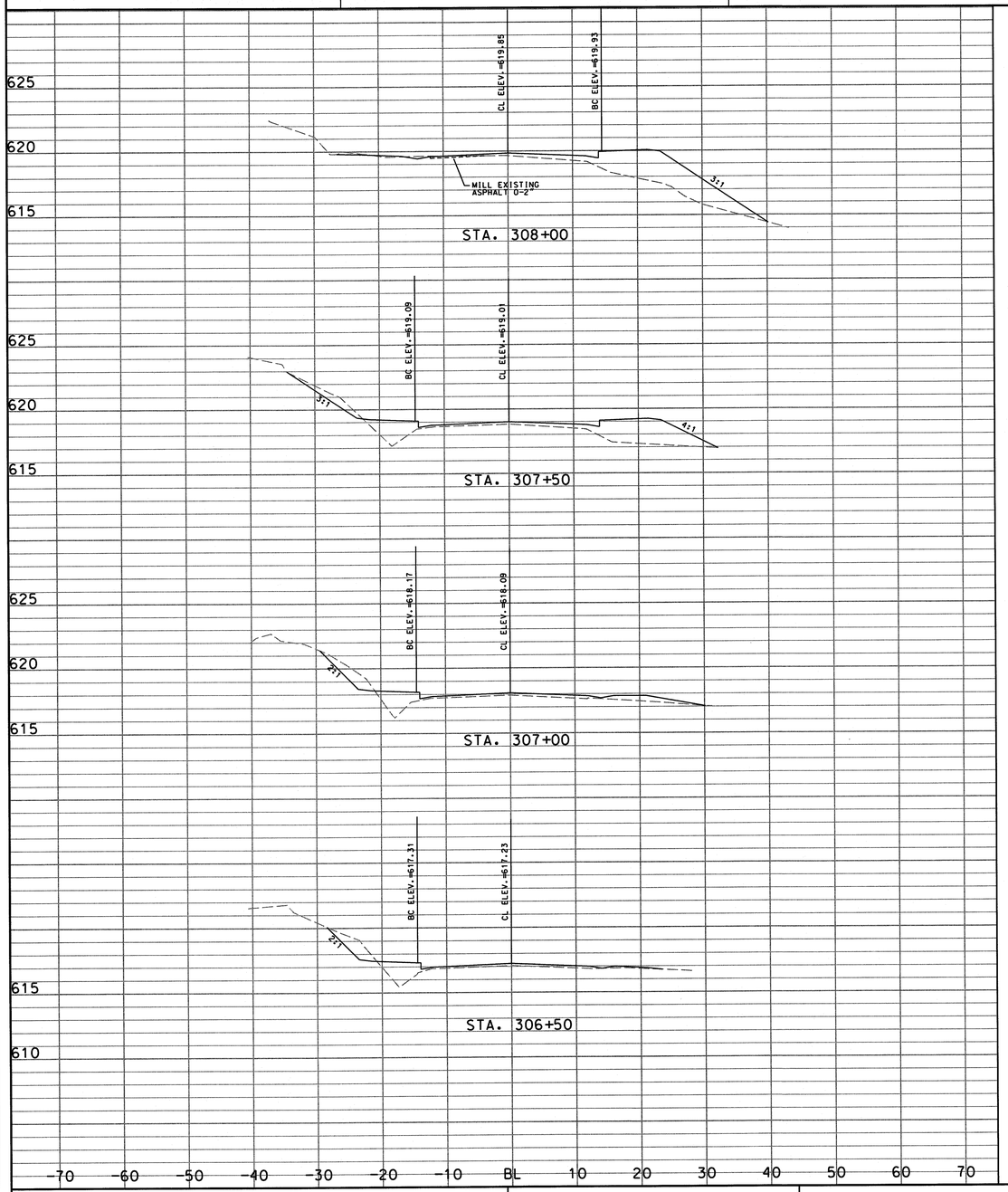
SES
Southern Engineering & Surveying, Inc.
16 South Broad Street
Suite 1400
Rome, Georgia 30165
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

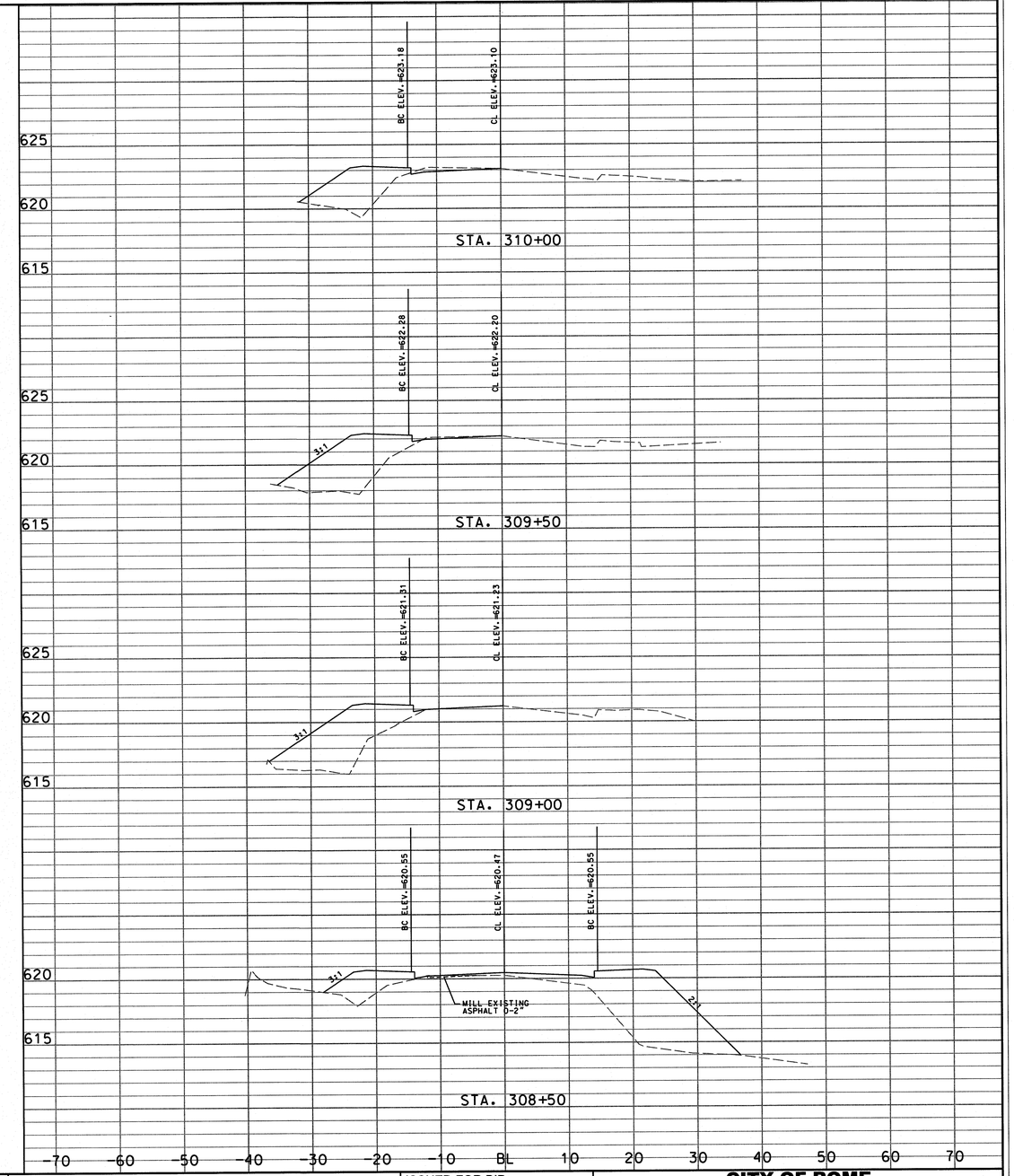
ISSUED FOR BID:
9/9/2016
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD
CROSS SECTIONS
STA. 302+50 TO STA. 306+00

DRAWING No.
23-13

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29813 CHARLES F. HARDIN, JR.
9-9-16

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
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Rome, Georgia 30161
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www.southernEandS.com

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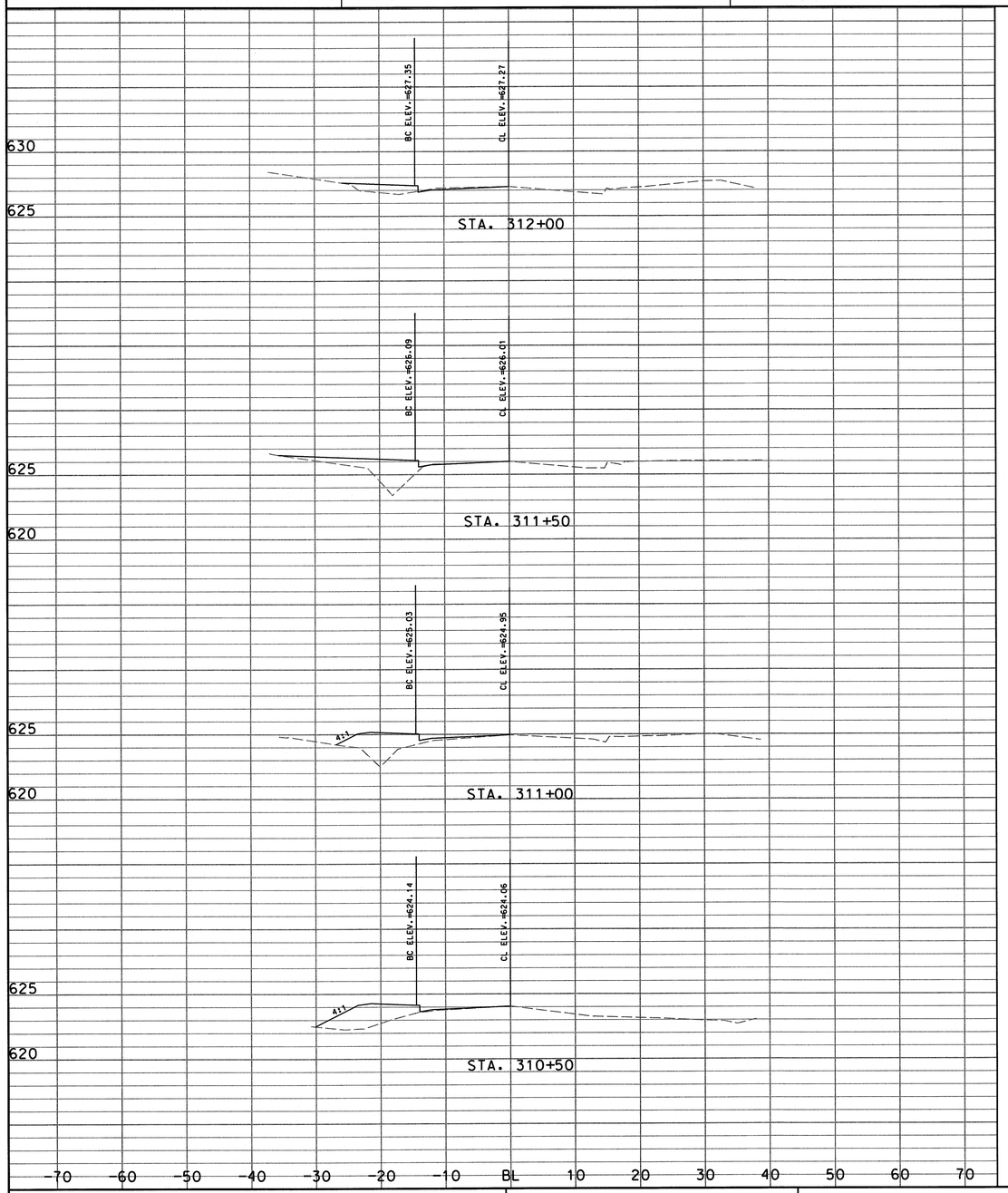
9/9/2016
REVISION DATES:

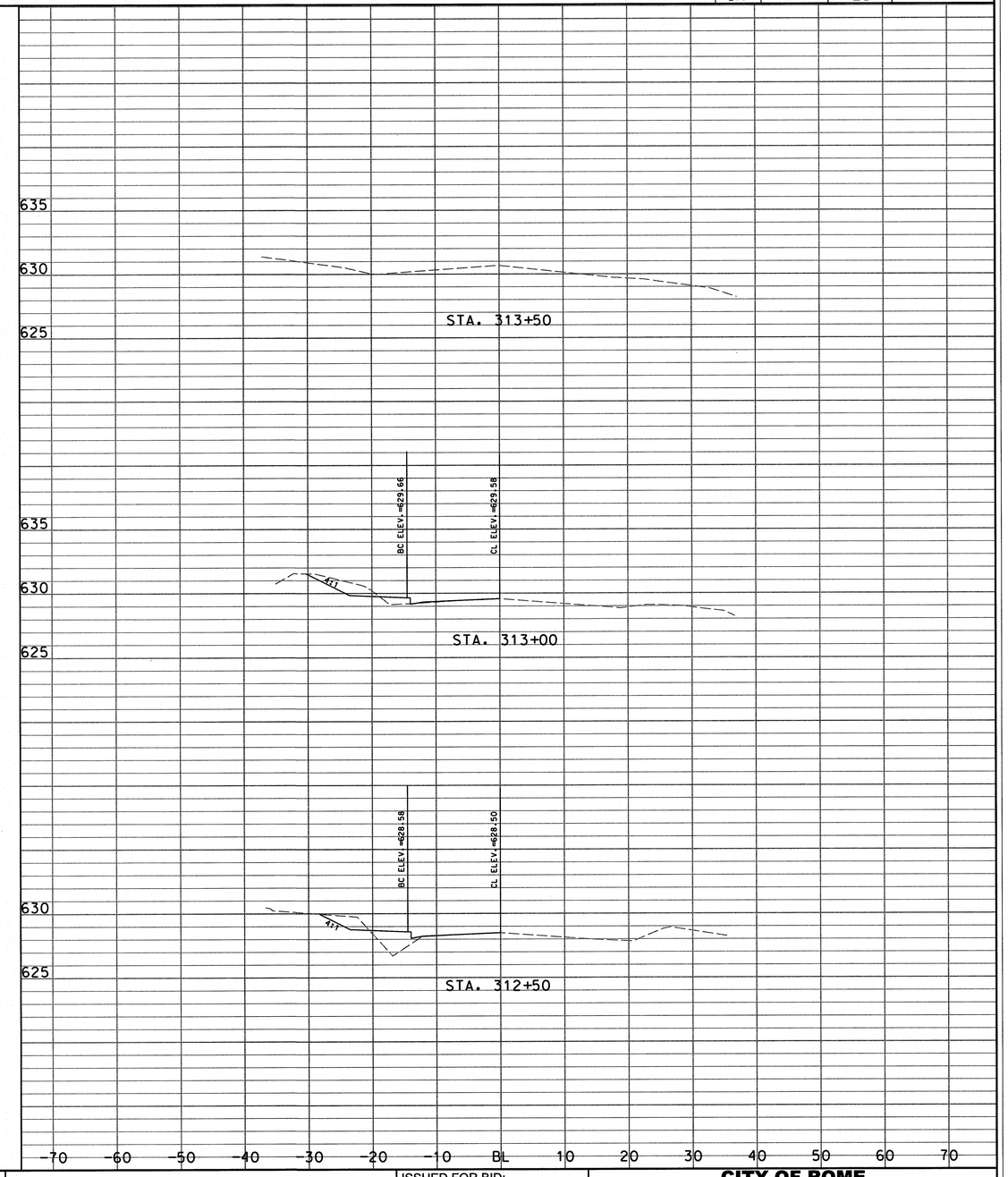
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

CROSS SECTIONS
STA. 306+50 TO STA. 310+00

DRAWING No.
23-14

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	23	





GEORGIA REGISTERED No. 19579 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

SCALE:
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

SES
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9/9/2016
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD
CROSS SECTIONS
STA. 310+50 TO STA. 313+50

DRAWING No.
23-15

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	1	

CITY OF ROME ENGINEERING DEPARTMENT

BURNETT FERRY ROAD IMPROVEMENTS

EROSION & SEDIMENT CONTROL PLANS

PROJECT LOCATED IN LAND LOTS 160, 161, 165 AND 166 OF THE 4TH DISTRICT, 4TH SECTION, FLOYD COUNTY, GEORGIA AND IN THE 3RD WARD OF THE CITY OF ROME

EROSION & SEDIMENT CONTROL NOTES:

SEE DRAWING NO. 51-01 & DRAWING NO. 52-01 FOR N.P.D.E.S. NOTES AND EROSION & SEDIMENT CONTROL DETAILS.

SILT FENCE MUST BE INSTALLED PRIOR TO EXCAVATION.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE EROSION AND SEDIMENT CONTROL BMP'S WITHIN THE PROPOSED RIGHT OF WAY.

SOME BMP'S MAY BE MODIFIED, OMITTED OR ADDED TO ACCOMMODATE ROADWAY CONSTRUCTION. ALL MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL BMP'S MUST BE APPROVED BY THE ENGINEER.

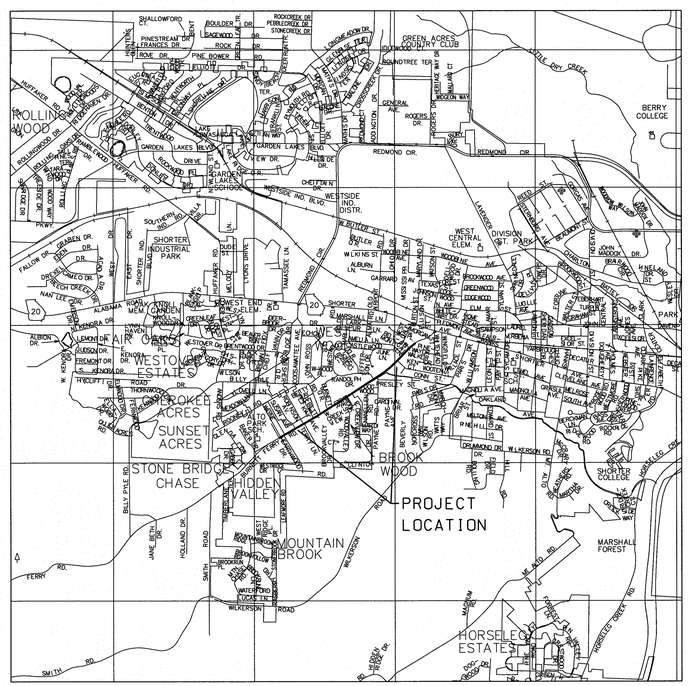
THE DESIGN PROFESSIONAL WHO PREPARED THE PLANS IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT REQUIREMENTS, PERIMETER CONTROL BMPS, AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DIES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, THEN PERMANENT PERENNIAL VEGETATION SHALL BE USED. MULCH USED FOR TEMPORARY STABILIZATION SHALL BE APPLIED TO A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVER.
IN ACCORDANCE WITH PERMIT GAR100002, CONSTRUCTION MUST BE COMPLETE AND 100% OF THE SITE MUST BE "STABILIZED" WITH A STAND OF GRASS BEFORE A NOTICE OF TERMINATION CAN BE FILED WITH THE E.P.D.
IN ACCORDANCE WITH GAR100002, THE OWNER MUST CONTACT THE DESIGN PROFESSIONAL WITHIN 7 DAYS OF COMMENCEMENT OF LAND DISTURBING ACTIVITIES FOR CERTIFICATION OF THE INITIAL EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN.
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.



PRIMARY PERMITTEE
24 HOUR PROJECT CONTACT:
CITY OF ROME ENGINEERING DEPT.
200 VAUGHN ROAD
ROME, GA 30161
MR. AARON CARROLL, DIRECTOR
706-252-5118

GEORGIA REGISTERED 29575 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.
9-9-16

GSWCC LEVEL II CERT. #22534

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

SUBMITTED FOR BID: 9/9/2016	
REVISIONS:	

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD		

NPDES GENERAL PERMIT GAR100002
COMPLIANCE NOTES AND MONITORING PROGRAM

1. SITE DESCRIPTION & NARRATIVE:

a. The proposed project will consist of road and drainage improvements along Burnett Ferry Road in Rome, Georgia.

All designs will conform to and all work will be performed in accordance with the publication entitled "Manual for Erosion and Sediment Control in Georgia" and the Georgia Department of Transportation Standard Specifications, 2001 Edition and subsequent amendments.

b. Initial perimeter Best Management Practices (BMPs) will be installed prior to any clearing, grubbing, or excavation. On this project, the perimeter BMP will be primarily silt fencing located along the existing curb and construction exits. As ditch sections are brought to grade, ditch checks will be installed at the spacing indicated on the plans.

c. Total disturbed area for the project is 7 acres. Total surface water drainage area within the representative drainage area is approximately 19.5 acres. The disturbed area within the representative drainage area is approximately 7 acres.

d. Pre-development runoff coefficient: C=0.95; Post-development: C=0.95.

e. Refer to the project construction plans for drainage patterns and approximate slopes after major grading has been accomplished. The Erosion, Sedimentation, and Pollution Control Plan (ESPCP) for this project identifies and generally locates all structural and non-structural controls. Further identified on the ESPCP are the storm water sampling points.

f. The receiving waters is Horseleg Creek.

2. CONTROLS:

a. The escape of sediment from the site shall be prevented by the installation of erosion control measures and practices prior to or concurrent with land disturbing activities. It should be noted that additional vegetative and structural controls may need to be added in order to adequately control erosion and sedimentation deposition on the project. A record of the dates will be maintained when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the project, and when stabilization measures are initiated.

b. Construction Exit (Co) Construction exists will be constructed of stone. Minimum size of stone will be 1-1/2 to 3 inches in diameter. Construction exits will be a minimum of 50 feet long, 20 feet wide. The depth of the stone will be a minimum of 6 inches. A geotextile underliner will be put in place prior to backfilling with the stone. The purpose of the construction exit is to cut the mud from vehicle tire prior to leaving the site. Due to the nature of some soils, it may be necessary to conduct wheel-washing of vehicles. If this becomes necessary, the washing will be conducted at the construction exit. Construction exits will be installed early on and prior to egress from the site. A construction exit will be employed along the existing track to prevent the transport sediment from the site by vehicular traffic. See the erosion & sediment control plans for exact locations.

c. Disturbed Area Stabilization (with permanent vegetation) (Ds3). Ds3 is a vegetative BMP of permanent cover using grasses, trees, shrubs, or legumes on highly erodible or critically eroded lands. Permanent grassing will be accomplished in accordance with the vegetative plan outline on the ESPCP. Particular attention must be paid also to the lime, fertilizer, and seed rates of this plan. It may become necessary to stabilize some areas of the site during construction using means other than Ds3. This will be accomplished by Disturbed Area Stabilization (with mulching only) (Ds1). The rule of thumb for mulching is as follows: Where grass seed is put in place, mulch depth will be 1-1/2 - 3 inches deep. Where mulch only is applied, much will be 2 to 4 inches deep. Stabilization measures will be initialed as soon as practicable on areas of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after cessation of activity. Where construction activity will resume on a portion of the site within 21 days from when activities ceased (e.g. the total time period that construction activity is temporarily ceased is less than 21 days), then stabilization measures do not have to be initiated on that portion of the site by the 14th day by Ds3 or Ds1. As a minimum, the contractor will complete grassing and/or mulching weekly or as needed to maintain stability of all disturbed soil. When conditions warrant, the Engineer may require more frequent intervals for this work. It is extremely important to get a cover, whether it is mulch, temporary grass or permanent grass. Adequate mulch is a must.

d. Sediment Barrier (Sd1). Sd1 is a temporary structure made of silt fence supported by steel or wood posts, sandbags, straw bales, or other filtering material. Sd1 is designed to slow the velocity of runoff, cause sediment deposition at the fence and filter sediment from the runoff. Sd1 fabric will deteriorate. Therefore, it will need to be replaced at times depending upon the volume of silt deposited and the amount of rainfall. Silt will be removed from against the fabric when the volume meets or exceeds one-half of the height of the fence. Sediment barriers will be established prior to any clearing, grubbing, or excavation.

e. Check Dam (Cd). A small temporary barrier constructed across a swale, drainage ditch, or area of concentrated flow. On this site, all check dams will be constructed of stone. Cd stone will be a minimum of 6 inches in diameter. Sediment against the stone will be removed when the depth of the silt reaches one-half the original height of the dam. Cds will be installed early in the clearing and grubbing phase and will be removed when construction is completed.

f. Storm Drain Outlet Protection (St). A paved or riprapped channel placed primarily at the outlet of storm drains to reduce the velocity of storm water, reduce erosion and of the receiving channel, and stabilize grades. In certain instances, St can be applied to the inlet of a storm drain to assist in stabilization of slopes. St will be installed, as soon as practical, after installation of storm drains.

3. WASTE DISPOSAL.

a. Waste Materials: No waste materials shall be discharged into waters of the State, except as authorized by a section 404 permit. The Contractor will provide for collection, storage, and removal of construction waste and/or debris from the site to an appropriate land fill site authorized to handle such waste or debris. No waste or debris will be buried on site. Notice of waste disposal practices will be posted at the Contractor's building.

b. Sanitary Waste: All sanitary waste material shall be collected from the portable units a minimum of one time a week or as required by local or state regulations.

c. Non-Storm Water Discharges: It is expected that the following non-storm water discharges will occur during construction: (1) Water from waterline and hydrant flushing; (2) Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred); (3) Uncontaminated ground water (from dewatering excavations). All non-storm water discharges will be directed to sediment traps prior to discharge.

d. Concrete and Asphalt Trucks: Concrete trucks shall not be allowed to wash out or discharge surplus concrete or conduct drum wash water except in a designated area. The Contractor will designate such an area away from drainage ditches, ponds, streams, and/or wetlands. Cured surplus concrete will be treated as waste material and removed from the site. Asphalt trucks will not be permitted to be cleaned on the site.

4. INVENTORY FOR POLLUTION PREVENTION: The following list of materials or substances are expected to be present on-site: Concrete, detergents, asphalt, fertilizers, petroleum-based products, cleaning solvents, other bituminous products.

5. SPILL PREVENTION - MATERIAL MANAGEMENT PRACTICES: The following are the material management practices which shall be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.

a. Good Housekeeping: The following practices shall be followed:
(1) Store only enough materials to do the job.
(2) Store all materials in their original containers (with the manufacturer's original label) in an orderly manner and, if possible, under an enclosure.
(3) Do not mix substances with each other unless recommended by the manufacturer.
(4) When possible, the entire contents of a product shall be used before disposal of the container.
(5) Follow manufacturer's recommendations for proper use and disposal.
(6) Contractor's job superintendent shall inspect daily to ensure proper use, storage and disposal.
(7) Pollutants or potentially hazardous materials, such as fuels, lubricants, lead paint, chemicals or batteries, shall be transported, stored and utilized in manner to prevent leakage or spillage into the environment.
(8) As much as possible, construction equipment will be such staged (parked) overnight in a common parking area and away from drainage ditches, ponds, streams, and/or wetlands.

b. Product Specific Practices:
(1) Petroleum Products - All onsite vehicles shall be monitored for leaks and receive regular prevent maintenance to reduce the chance of leaking. Petroleum products shall be stored in tightly sealed containers which are correctly labeled. Asphalt substrates shall be applied in strict accordance with the manufacturer's recommendations.

(2) Fertilizers - Fertilizers shall be applied only in the minimum amounts specified by the manufacturer. Once applied, work fertilizer into the soil to limit exposure to storm water. Store fertilizer in a covered shed and transfer contents of partially used bags into a sealable plastic bin.

(3) Paints - All containers shall be tightly sealed and stored when not required for use. Excess paint will not be discharged into the storm drainage system. Disposal of surplus paint materials shall conform to local, state and manufacturer's recommended methods.

6. SPILL CONTROL PRACTICES: In addition to the above practices, the following practices shall be employed for spill prevention and cleanup:

a. Manufacturer's recommended methods for spill cleanup will be clearly posted and personnel made aware of the procedures and the location of the information and cleanup supplies.

b. Material and equipment for spill cleanup, including, but not limited to brooms, dustpans, mops, rags, gloves, goggles, kitty litter, sand, sawdust and plastic and metal trash containers shall be kept in the onsite material storage area.

c. Any and all leaks or spills of petroleum products will be the responsibility of the Contractor to contain, control, and remediate in accordance with all local, state and federal guidelines, ordinances, and laws.

d. The spill area shall be kept well ventilated, and personnel shall wear appropriate protective clothing.

e. Spills of toxic or hazardous materials shall be reported to the appropriate state or local government agency, regardless of size.

f. The spill prevention plan will be adjusted to include measures to avoid the same type of spill from recurring.

g. Place catch pans under trucks observed to be leaking oil or other fluids.

h. Provide a dumpster or other containment system to store fuel storage tanks.

i. Collect and store soil contaminated with petroleum products or other hazardous materials in metal drums for disposal at a legal hazardous waste disposal site.

j. Contractor's job superintendent shall be the spill prevention and cleanup coordinator. He will designate, and provide training for additional onsite personnel who will each be responsible for a particular phase of prevention and cleanup. Names of designated spill prevention and cleanup personnel will be posted in the material storage area and in the Contractor's onsite office.

k. No washdown of concrete tools, concrete mixer chutes or concrete trucks shall be conducted on-site.

7. MONITORING REQUIREMENTS:

a. The NPDES General Storm Water Permit requires that the monitoring program provide for inspecting, sampling, and reporting about the runoff conditions associated with the land-disturbing activities connected with the project. The primary permittee has the responsibility of completing and implementing the Erosion, Sedimentation and Pollution Control Plan (ESPCP) for the construction. This includes all storm water sampling and site inspections, as described below. Secondary permittee's will be required to provide site inspections of their activities, in accordance with the paragraphs below, unless the only work they are doing is performing service line installations. In this case, no site inspections from the utility companies or utility contractors will be required.

b. The primary permittee must provide a copy of the ESPCP or applicable portions of the ESPCP to each secondary permittee prior to the secondary permittee conducting any construction activity. A written acknowledgement of receipt of the ESPCP must be made by the secondary permittee and a copy of such be retained in the primary permittee's records.

c. Refer to General Permit No. GAR 100002, Part 1B, for definitions. General Permit GAR 100002 will be furnished upon request or can be obtained through the internet at the Georgia Environmental Protection Division Website at http://www.state.ga.us/dnr/environ/.

8. STORM WATER SAMPLING:

a. Location: For this project, representative sampling has been identified to monitor the storm water runoff from the construction site. Sampling Locations have been identified upstream and downstream of disturbed areas in the representative drainage basin. The representative sampling locations are located at roadway stations 300+00 and 300+40 and are shown on the Project Plans.

b. Schedule:
(1) Storm water sampling is to commence after all of the Best Management Practices (BMP's) have been implemented for the applicable disturbed areas. This sampling will continue until the first 0.5 inch rainfall event after mass grading.
(2) Given below is the sampling schedule as required by the NPDES General Storm Water Permit. All samples must be taken within 45 minutes of the accumulation of the minimum amount of rainfall in the 24-hour period, and when the runoff reaches the monitoring point, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

Rainfall Event	Sampling Frequency
0.5 inch/24 hours	First event after clearing and grubbing is completed.
0.5 inch/24 hours	First event after mass grading is completed.

(3) As required, a post-storm water inspection will be conducted after the first rain event of 0.5 inch or greater after clearing and grubbing is accomplished. If after this inspection, all BMPs are found to be designed, installed, and/or maintained, no further action is required. However, if any BMPs are found not properly designed, installed, and/or maintained, or otherwise destroyed after the storm, corrective action shall be taken within two (2) days. Additionally, storm water samples will continue to be taken for each subsequent rain event that reaches or exceeds 0.5 inch until the required turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed, and maintained.

c. Collection Procedures:
(1) Barring unforeseen circumstances, storm water samples shall be taken with an automatic ISCO GSS Compact Storm Water Sampler. A component of this sampler will include a rain gage for recording the rainfall events and to allow activation of the sampler unit. The probe for the automatic sampler should be placed in the center of the flow line of the ditch at the estimated depth of the flow. Samples will remain in the automatic sampler until the next business day, when they will be collected and tested.
(2) In the event that manual grab samples are required, large mouth, well-cleaned and rinsed glass or plastic jars shall be used for collecting the samples. The manual samples should be taken in the horizontal and vertical center of the flow line of the ditch. Care should be taken to avoid stirring up the bottom sediments, and the sample should be kept free from floating debris. The sampling container should be held so that the opening faces upstream.
(3) For all samples, the sampling container should be thoroughly cleaned to avoid contamination and labeled prior to collecting the samples. Once samples have been collected, they should be well mixed before transferring to a secondary container. The minimum sample size should be 100 ml or approximately 3-1/2 fluid ounces.

d. Method of Analysis:
(1) Storm water samples shall be analyzed in accordance with the methodology and test procedures established by 40 CFR, Part 126. This section of the Code of Federal Regulations (CFR) identifies the required analytical method for turbidity as EPA Method 180.1, Determination of Turbidity by Nephelometry.
(2) The turbidity samples will be analyzed utilizing a portable Hach turbidimeter. The turbidimeter should be satisfactory to measure turbidity up to 1,000 Nephelometric Turbidity Unit (NTU). If it is necessary to dilute the sample to achieve an accurate turbidity reading, the manufacturer's instructions will be followed for specific requirements of dilution.

e. Allowable Turbidity Levels:
(1) In accordance with Appendix "B" of General Permit GAR 100002, for a disturbed area of 7 acres within a representative drainage area of 19.5 acres, the difference in the upstream and downstream turbidity level cannot exceed 25 NTU.

(2) Should the difference in the turbidity level readings exceed 25 NTU, proper design, installation, and maintenance of the BMP's shall constitute a complete defense of any allegation of non-compliance.

9. SITE INSPECTIONS: Site inspections required by the NPDES General Storm Water Permit GAR 100002 include daily, weekly, and monthly inspections, as well as, post-rainfall event inspections. All inspections shall be documented.

a. Daily: Daily inspections shall be conducted when any type of construction activity has taken place, at petroleum product storage, usage, and handling areas, and at all locations where vehicles enter/exit the site. Daily inspections shall also include the inspection of all structural control measures (BMP's) and recording of the previous 24-hour rainfall.

b. Weekly and After Rainfall Events: The following areas shall be inspected every 7 calendar days and within 24 hours of the end of a rainfall event that is 0.5 inches or greater:
(1) Disturbed areas without final stabilization.
(2) Material storage areas exposed to precipitation that have not undergone final stabilization.
(3) Structural control measures (BMP's).
(4) The receiving water body(ies).

c. Monthly: Once per month, all areas where final stabilization has been completed shall be inspected. These areas shall be inspected for evidence of, or the potential for, sediments or pollutants entering the drainage system and/or receiving waters. All erosion and sediment control measures identified in the ESPCP that remain in place on the project shall be inspected to verify they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

d. If, during the course of the permittees routine inspection, BMP failures are observed which have resulted in sediment deposition into Waters of the State, the permittee shall correct the BMP failures and shall submit a summary of the violations to EPD, in accordance with Part V.A.2. of General Permit GAR 100002.

e. All inspections shall continue until the project has undergone final stabilization and a Notice of Termination (NOT) has been submitted to the EPD.

10. RECORD KEEPING AND REPORTING:

a. Results of all project inspections and storm water monitoring sampling will be documented and maintained on site. Forms will be provided for inspection documentation and reporting. All monitoring records and reports, as well as the Erosion, Sedimentation, and Pollution Control Plans, are required to be retained either on site or at a readily available alternate location if there is no office on site. Records and reports for this project will be maintained at the office of the General Contractor.

The permittee shall retain copies of all Notices of Intent, Notices of Termination, Reports, Plans, Monitoring Reports, and all other supporting data and documentation at their place of business, once construction activity is ceased for a period of three (3) years.

b. As previously stated, storm water monitoring and reporting is the responsibility of the primary permittee. A summary of monitoring results are to be reported to the Georgia Environmental Protection Division (EPD) by the 15th day of the month following the reporting period.

c. A report summarizing the scope of each inspection and the name(s) of personnel making each inspection, the date(s)of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan and actions taken shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G. of General Permit GAR 100002.

d. Each permittee must document in their records any and all known violations of this permit at his/her site within seven (7) days of his/her knowledge of the violation. A summary of these violations must be submitted to EPD by the permittee at the addresses shown below within fourteen (14) days of his/her discovery of the violation.

e. Any correspondence with the EPD shall be sent return receipt required by certified mail to the following address:

Georgia Environmental Protection Division
Mountain District Office
P.O. Box 3250
Cartersville, Georgia 30120

EROSION, SEDIMENTATION AND POLLUTION CONTROL CERTIFICATION:

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia"(Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100002."

" I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgement, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampling receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

"I further certify under penalty of law that these plans were prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision. In addition, I certify that, after notification by the primary permittee, I will visit the site within 7 days after the commencement of construction to determine if BMP's have been installed and are being maintained as designed."

CHARLES F. HARDIN, JR, P.E. - CERT. # 22354

"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the sytem, or those persons directly resonsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

PRIMARY PERMITEE

ANTICIPATED ACTIVITY SCHEDULE

ACTIVITY	MONTH 1	2	3	4	5	6	7	8	9	10	11	12
1. INSTALL SEDIMENT CONTROLS	■											
2. CLEARING AND GRUBBING	■											
3. UTILITY INSTALLATION		■	■	■	■							
4. GRASS (TEMP) & (PERM)		■	■	■	■							
5. MAINTAIN EROSION CONTROL		■	■	■	■							
6. CLEAN UP						■						

MATERIAL	QUANTITY
DRY STRAW OR HAY	2" - 4" DEPTH
WOOD WASTE (SAWDUST, BARK, CHIPS)	2" - 4" DEPTH
CUTBACK ASPHALT (SLOW CURING)	1,200 GAL. PER ACRE (1/4 GAL. PER SQ. YD.)
POLYETHYLENE FILM	COMPLETELY COVERING EXPOSED AREA TRENCHED IN AT OUTER EDGES.

STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. MULCH MAY BE ANCHORED BY MECHANICALLY PRESSING INTO SURFACE. IF SPREAD WITH BLOWER EQUIPMENT, MULCH SHALL BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1) - 100 GALLONS WATER PER TON OF MULCH. NETTING SHALL BE USED TO ANCHOR WOOD WASTE AND CHIPS. POLYETHYLENE SHALL BE TRENCHED IN AT EDGES.

Ds1 MULCHING

TYPE OF GRASS	PLANTING SEASON	MIN. LIME RATE	FERTILIZER RATE (6-12-12)	SEED RATE
RYE GRASS	AUGUST 15 - NOVEMBER 15	1 TON / Ac.	1000 lb./Ac.	40 lb./Ac.
BROWNTOP MILLET	APRIL 1 - JULY 1	1 TON / Ac.	1000 lb./Ac.	40 lb./Ac.
THE MULCH APPLICATION RATE IS 2 1/2 TONS PER ACRE.				

Ds2 STABILIZATION WITH TEMPORARY SEEDING

TYPE OF GRASS	PLANTING SEASON	MIN. LIME RATE	FERTILIZER RATE (6-12-12)	SEED RATE
BERMUDA	APRIL 1 - JUNE 1	1 TON / Ac.	1500 lb./Ac.	10 lb./Ac.
FESCUE	AUGUST 15 - OCTOBER 15	1 TON / Ac.	1500 lb./Ac.	30 lb./Ac.
THE MULCH APPLICATION RATE IS 2 1/2 TONS PER ACRE.				

Ds3 STABILIZATION WITH PERMANENT VEGETATION

SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED No. 29579 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.
9-9-16

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

PROJECT OWNER:

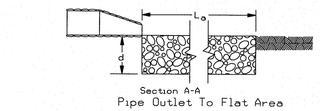
CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID:	
9/9/2016	
ISSUED FOR CONSTRUCTION:	
REVISION DATES:	

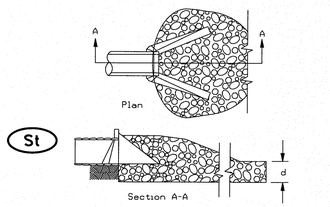
CITY OF ROME PUBLIC WORKS
BURNETT FERRY ROAD
NPDES GENERAL NOTES

DRAWING No. 51-01

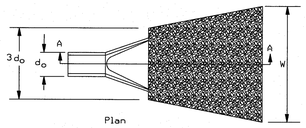
STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	52	



Pipe Outlet To Flat Area
With No Defined Channel



Pipe Outlet To Well-Defined Channel



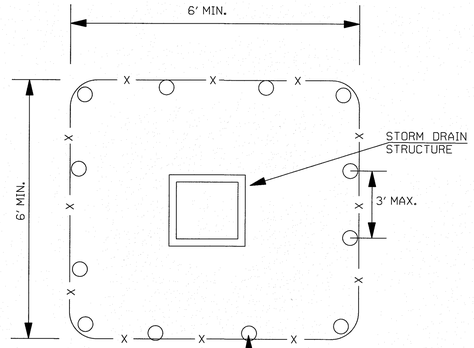
NOTES:

1. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6 INCHES.
2. IF A PIPE DISCHARGES INTO A WELL DEFINED CHANNEL, THE RIPRAP SHALL EXTEND UP TO THE TOP OF THE CHANNEL BANK.
3. RIPRAP REQUIREMENTS APPLY TO ALL DRAINAGE PIPE OUTLETS.

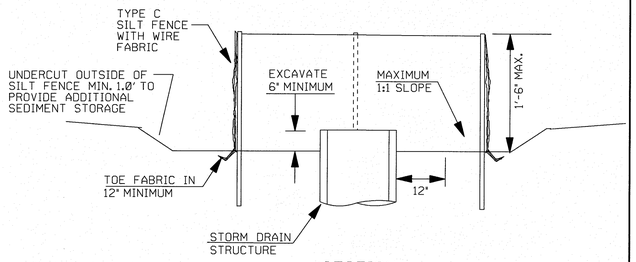
PIPE SIZE	La	W	d50 RIPRAP SIZE
18"	10'	12'	6"
24"	13'	15'	6"
30"	16'	19'	6"
42"	28'	32'	6"
48"	32'	40'	6"

STORM DRAIN
INLET - OUTLET
PROTECTION

Sd2

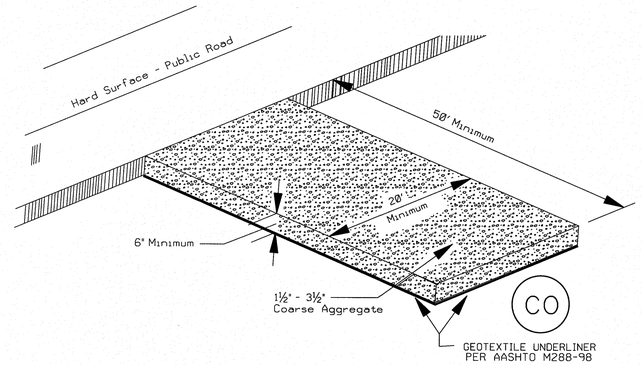


PLAN

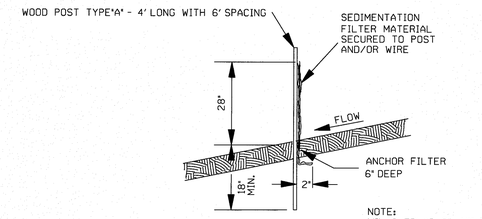


SECTION

TEMPORARY SEDIMENT TRAP



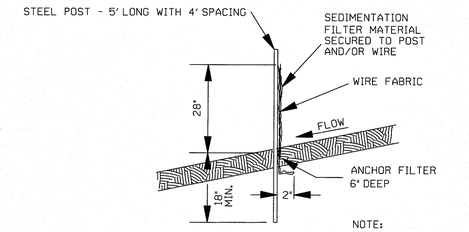
GRAVEL CONSTRUCTION ENTRANCE



NOTE:
MIN. OVERLAP OF 18"
REQ'D AT JOINTS

TYPE "A" SILT FENCE

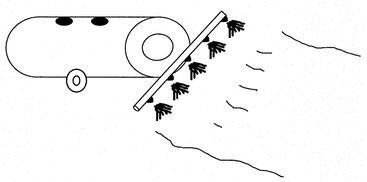
Sd1-A SEDIMENT BARRIERS



NOTE:
MIN. OVERLAP OF 18"
REQ'D AT JOINTS

TYPE "C" SILT FENCE

Sd1-C SEDIMENT BARRIERS



TEMPORARY METHODS

MULCHES: SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MAUFACTURER'S RECOMMENDATIONS.

VEGETATIVE COVER: SEE STANDARD DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

SPRAY -ON ADHESIVES: THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD TB-TACKIFIERS AND BINDERS.

TILLAGE: THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS.

IRRIGATION: THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

BARRIERS: SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

CALCIUM CHLORIDE: APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS
PERMANENT VEGETATION: SEE STANDARDS DS3-DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

TOPSOILING: THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE STANDARD TP-TOPSOILING.

STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD CR-CONSTRUCTION ROAD STABILIZATION.

Du DUST CONTROL ON DISTURBED AREAS

SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR. 9-9-16

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PROJECT OWNER:

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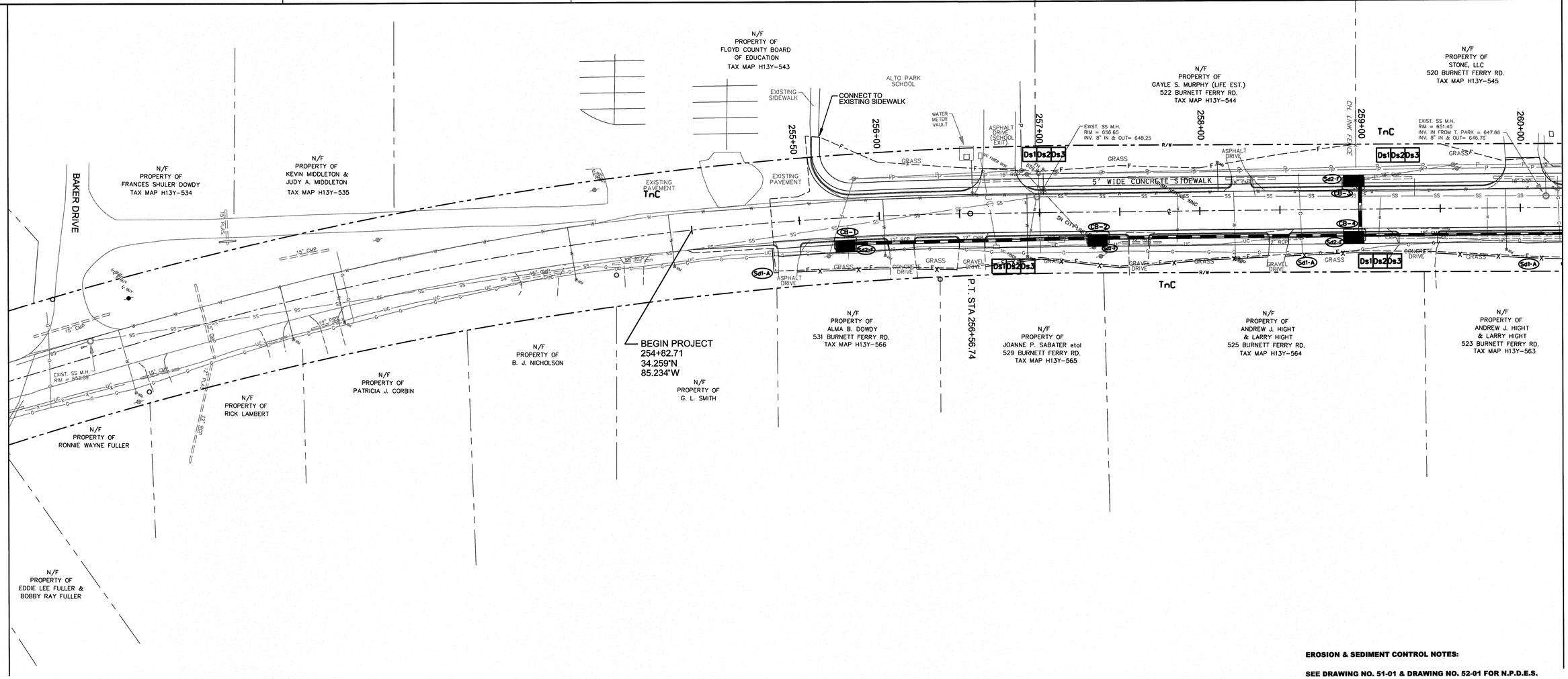
ISSUED FOR BID: 9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

EROSION & SEDIMENT CONTROL DETAILS

DRAWING No. 52-01

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	54	



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PRIMARY PERMITTEE
24 HOUR PROJECT CONTACT:
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MR. AARON CARROLL, DIRECTOR
706-252-5118

EROSION & SEDIMENT CONTROL LEGEND

----------	SOIL TYPE DELINEATION LINE
TnC	SOIL TYPE
DoA	SOIL TYPE
Ck	SOIL TYPE

EROSION & SEDIMENT CONTROL NOTES:

SEE DRAWING NO. 51-01 & DRAWING NO. 52-01 FOR N.P.D.E.S. NOTES AND EROSION & SEDIMENT CONTROL DETAILS.

SILT FENCE MUST BE INSTALLED PRIOR TO EXCAVATION.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE EROSION AND SEDIMENT CONTROL BMP'S WITHIN THE PROPOSED RIGHT OF WAY.

SOME BMP'S MAY BE MODIFIED, OMITTED OR ADDED TO ACCOMMODATE ROADWAY CONSTRUCTION. ALL MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL BMP'S MUST BE APPROVED BY THE ENGINEER.

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SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29515 CHARLES F. HARDIN, JR.
9-9-16

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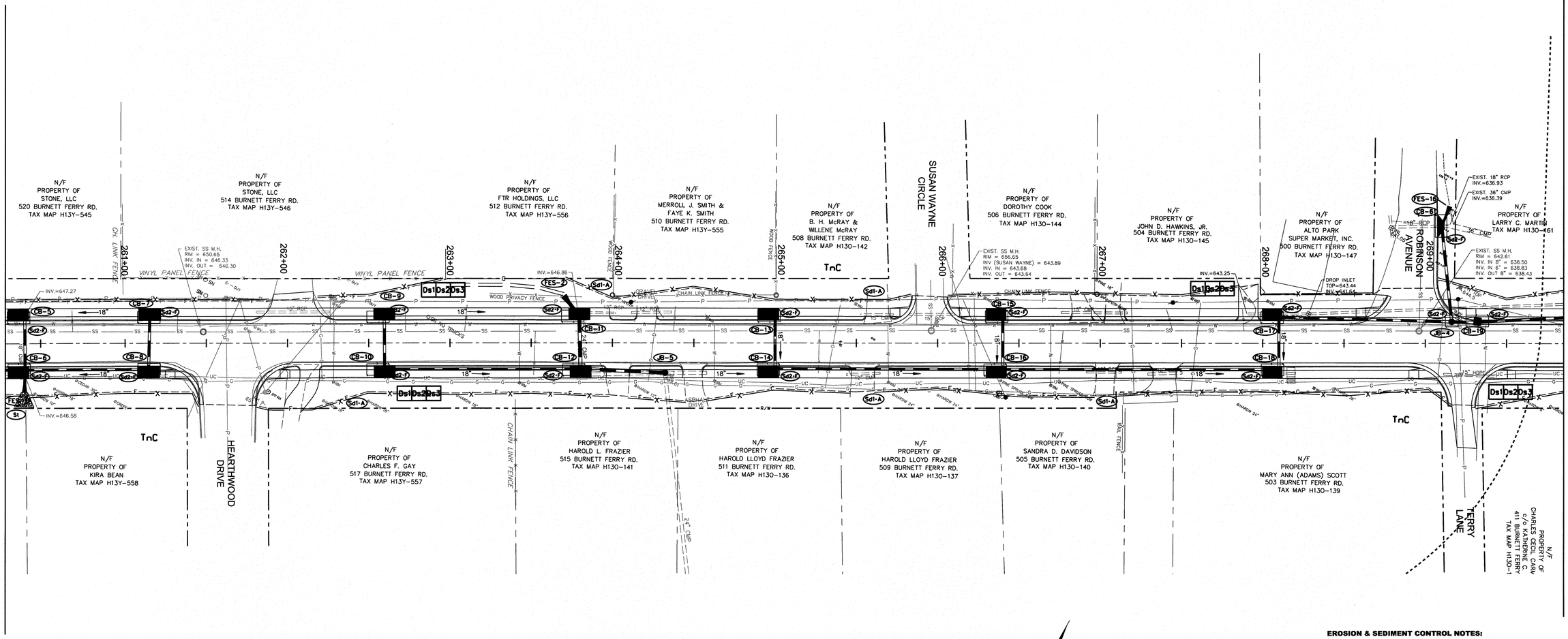
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

BMP LOCATION DETAILS

DRAWING No.
54-01

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	54	



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PRIMARY PERMITTEE
24 HOUR PROJECT CONTACT:
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706-252-5118

EROSION & SEDIMENT CONTROL LEGEND

----------	SOIL TYPE DELINEATION LINE
TnC	SOIL TYPE
DoA	SOIL TYPE
Ck	SOIL TYPE

EROSION & SEDIMENT CONTROL NOTES:

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SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED No. 19579 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.
9-9-16

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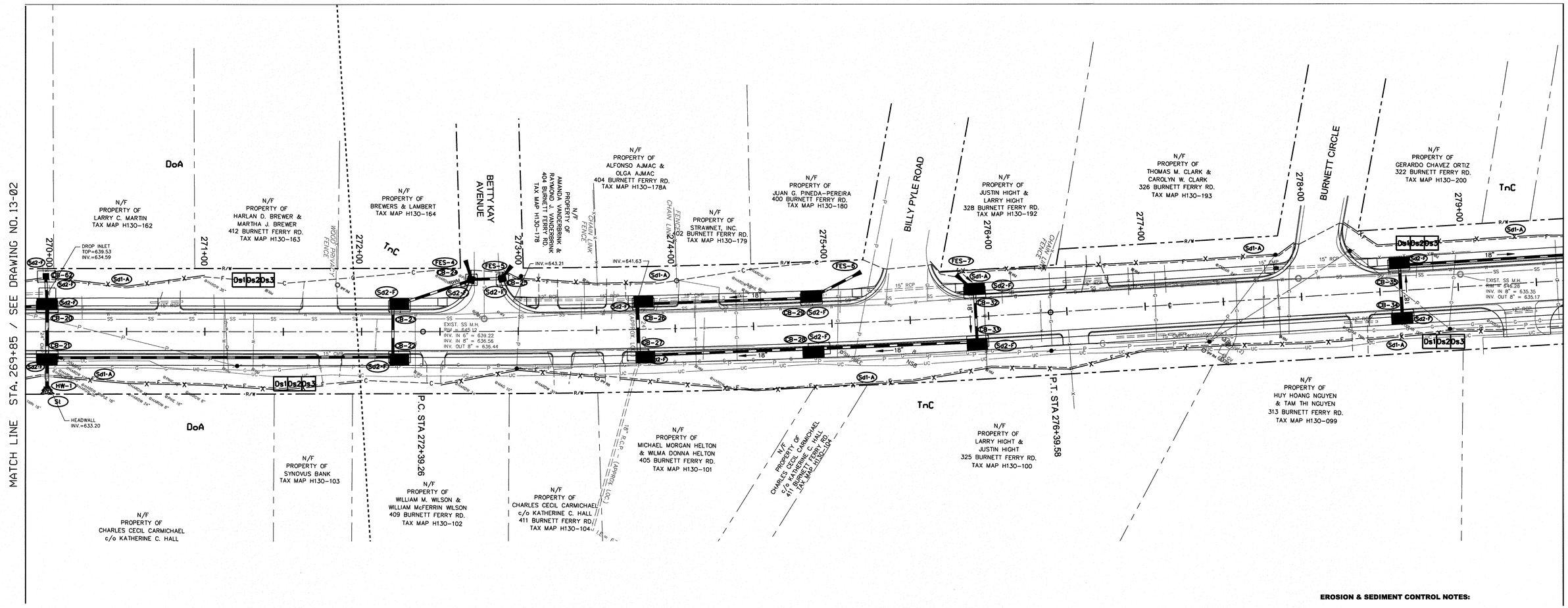
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

BMP LOCATION DETAILS

DRAWING No. 54-02

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	54	



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PRIMARY PERMITTEE
24 HOUR PROJECT CONTACT:
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200 VAUGHN ROAD
ROME, GA 30161
MR. AARON CARROLL, DIRECTOR
706-252-5118

EROSION & SEDIMENT CONTROL LEGEND

----------	SOIL TYPE DELINEATION LINE
TnC	SOIL TYPE
DoA	SOIL TYPE
Ck	SOIL TYPE

EROSION & SEDIMENT CONTROL NOTES:

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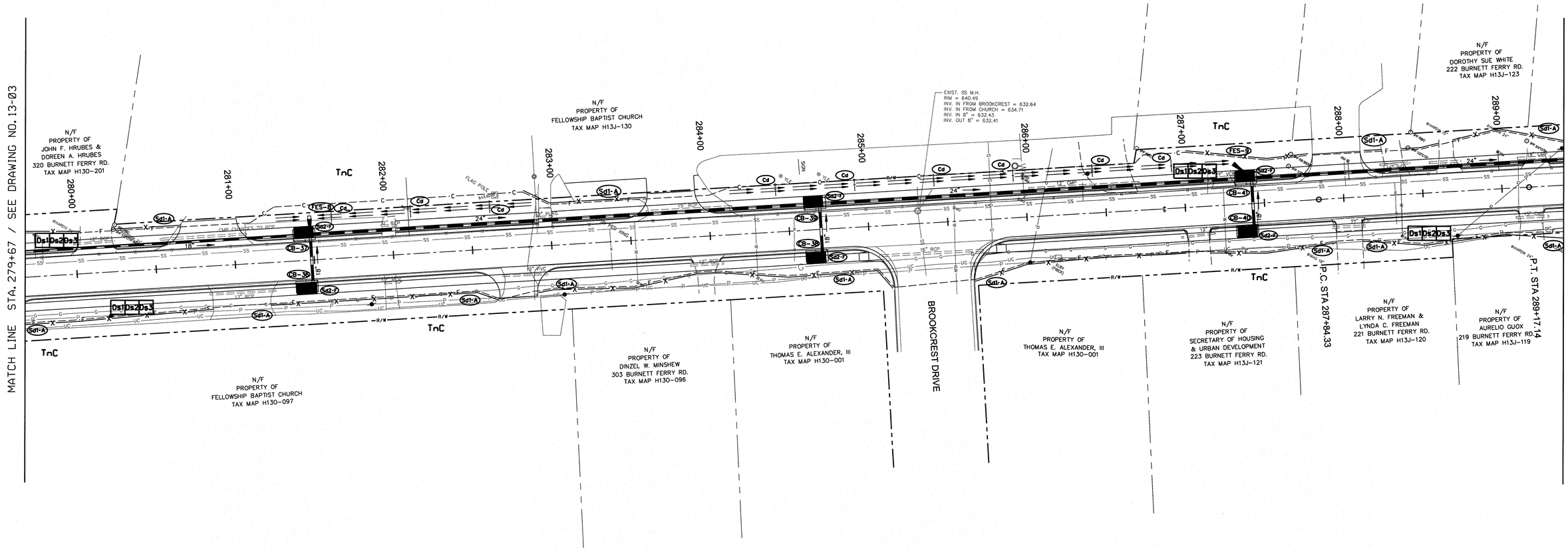
CITY OF ROME PUBLIC WORKS
BURNETT FERRY ROAD

BMP LOCATION DETAILS

DRAWING No. 54-03

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	54	



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PRIMARY PERMITTEE
24 HOUR PROJECT CONTACT:
CITY OF ROME ENGINEERING DEPT.
200 VAUGHN ROAD
ROME, GA 30161
MR. AARON CARROLL, DIRECTOR
706-252-5118

EROSION & SEDIMENT CONTROL LEGEND

----------	SOIL TYPE DELINEATION LINE
TnC	SOIL TYPE
DoA	SOIL TYPE
Ck	SOIL TYPE

EROSION & SEDIMENT CONTROL NOTES:

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SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 17577 CHARLES F. HARDIN, JR.

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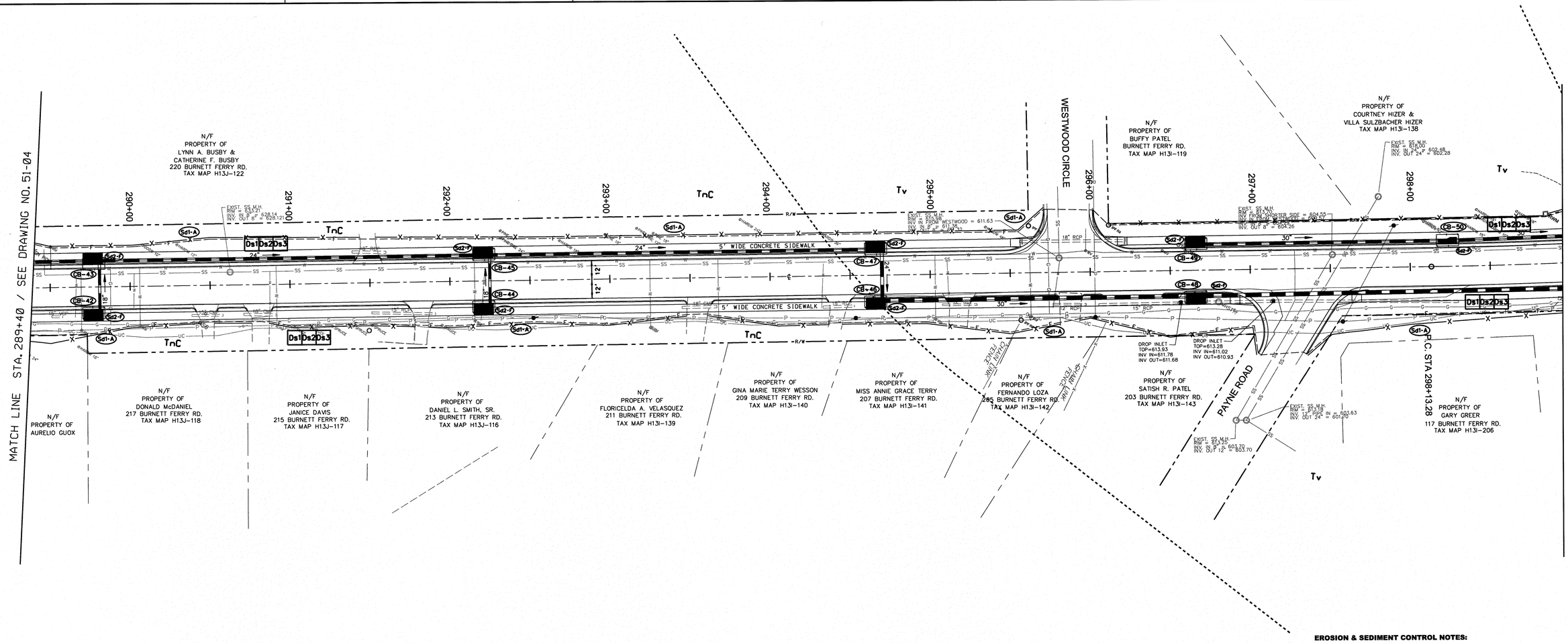
REVISION DATES:	

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

BMP LOCATION DETAILS

DRAWING No. 54-04

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	54	



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PRIMARY PERMITTEE
24 HOUR PROJECT CONTACT:
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ROME, GA 30161
MR. AARON CARROLL, DIRECTOR
706-252-5118

EROSION & SEDIMENT CONTROL LEGEND

----------	SOIL TYPE DELINEATION LINE
TnC	SOIL TYPE
DoA	SOIL TYPE
Ck	SOIL TYPE
Tv	SOIL TYPE

EROSION & SEDIMENT CONTROL NOTES:

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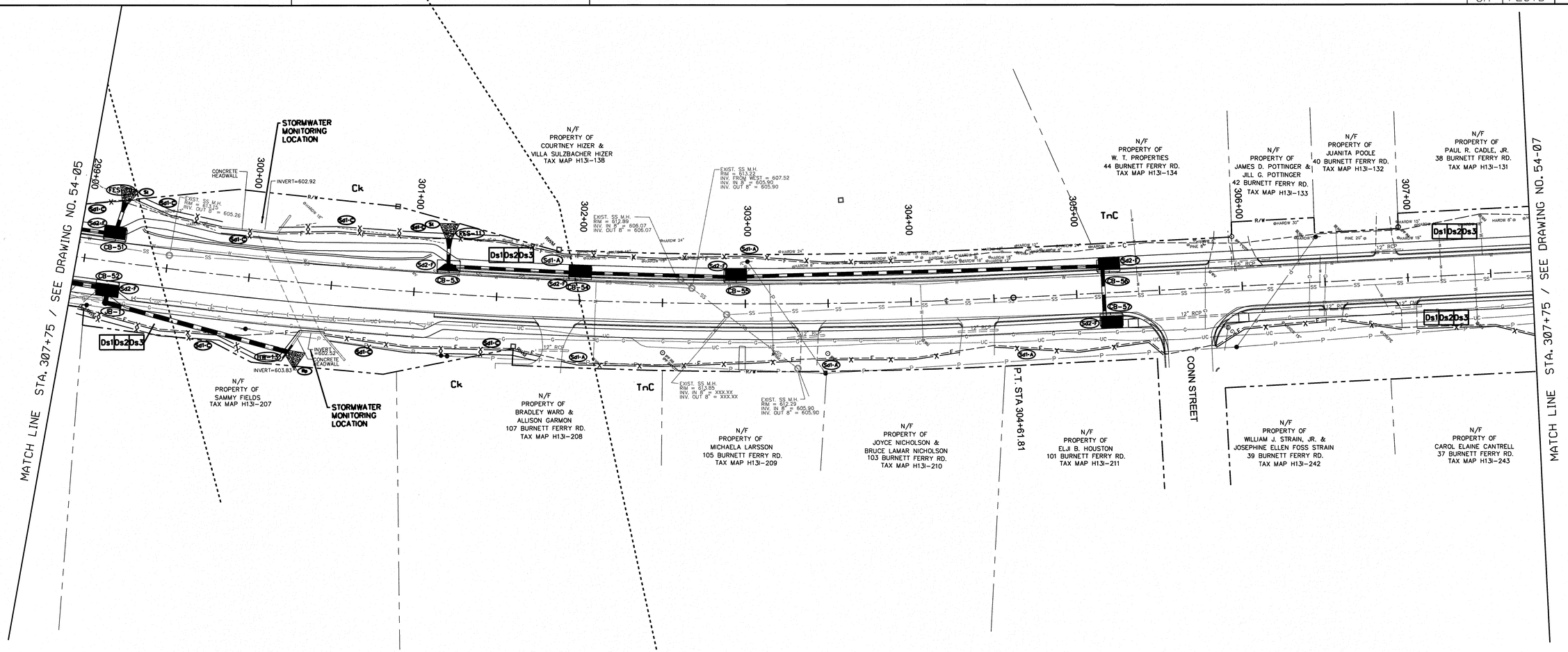
BURNETT FERRY ROAD

BMP LOCATION DETAILS

DRAWING No.
54-05

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	54	



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EROSION & SEDIMENT CONTROL LEGEND

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TnC	SOIL TYPE
DoA	SOIL TYPE
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Tv	SOIL TYPE

EROSION & SEDIMENT CONTROL NOTES:

SEE DRAWING NO. 51-01 & DRAWING NO. 52-01 FOR N.P.D.E.S. NOTES AND EROSION & SEDIMENT CONTROL DETAILS.

SILT FENCE MUST BE INSTALLED PRIOR TO EXCAVATION.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE EROSION AND SEDIMENT CONTROL BMP'S WITHIN THE PROPOSED RIGHT OF WAY.

SOME BMP'S MAY BE MODIFIED, OMITTED OR ADDED TO ACCOMMODATE ROADWAY CONSTRUCTION. ALL MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL BMP'S MUST BE APPROVED BY THE ENGINEER.

THE DESIGN PROFESSIONAL WHO PREPARED THE PLANS IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT REQUIREMENTS, PERIMETER CONTROL BMPS, AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DIES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19571 CHARLES F. HARDIN, JR.

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

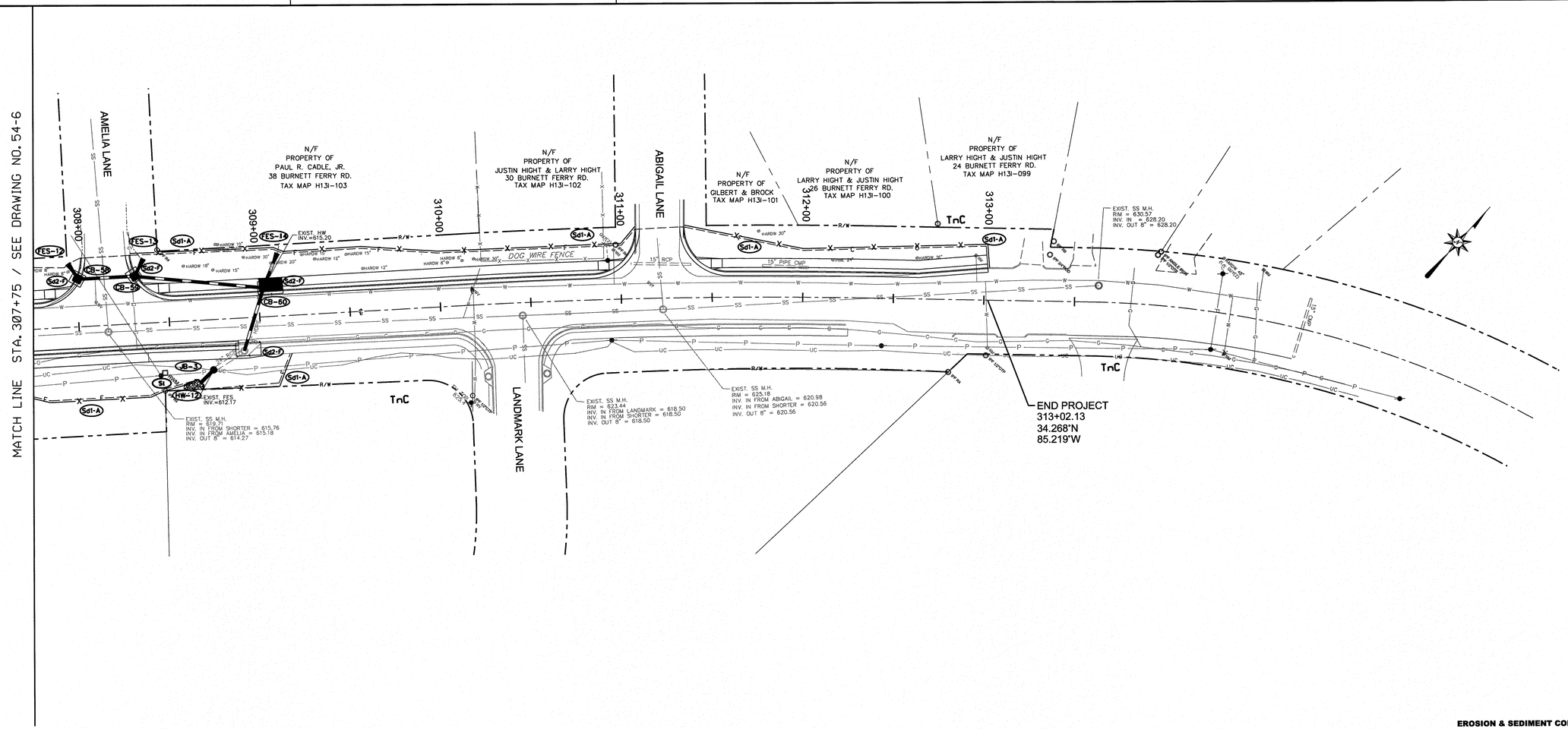
ISSUED FOR BID:
9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

BMP LOCATION DETAILS

DRAWING No.
54-06

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD	54	



ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, THEN PERMANENT PERENNIAL VEGETATION SHALL BE USED. MULCH USED FOR TEMPORARY STABILIZATION SHALL BE APPLIED TO A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVER.

IN ACCORDANCE WITH PERMIT GAR100002, CONSTRUCTION MUST BE COMPLETE AND 100% OF THE SITE MUST BE "STABILIZED" WITH A STAND OF GRASS BEFORE A NOTICE OF TERMINATION CAN BE FILED WITH THE E.P.D.

IN ACCORDANCE WITH GAR100002, THE OWNER MUST CONTACT THE DESIGN PROFESSIONAL WITHIN 7 DAYS OF COMMENCEMENT OF LAND DISTURBING ACTIVITIES FOR CERTIFICATION OF THE INITIAL EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

PRIMARY PERMITTEE
24 HOUR PROJECT CONTACT:
CITY OF ROME ENGINEERING DEPT.
200 VAUGHN ROAD
ROME, GA 30161
MR. AARON CARROLL, DIRECTOR
706-252-5118

EROSION & SEDIMENT CONTROL LEGEND

----------	SOIL TYPE DELINEATION LINE
TnC	SOIL TYPE
DoA	SOIL TYPE
Ck	SOIL TYPE
Tv	SOIL TYPE

EROSION & SEDIMENT CONTROL NOTES:

SEE DRAWING NO. 51-01 & DRAWING NO. 52-01 FOR N.P.D.E.S. NOTES AND EROSION & SEDIMENT CONTROL DETAILS.

SILT FENCE MUST BE INSTALLED PRIOR TO EXCAVATION.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE EROSION AND SEDIMENT CONTROL BMP'S WITHIN THE PROPOSED RIGHT OF WAY.

SOME BMP'S MAY BE MODIFIED, OMITTED OR ADDED TO ACCOMMODATE ROADWAY CONSTRUCTION. ALL MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL BMP'S MUST BE APPROVED BY THE ENGINEER.

THE DESIGN PROFESSIONAL WHO PREPARED THE PLANS IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT REQUIREMENTS, PERIMETER CONTROL BMPS, AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

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SCALE IN FEET
0 30 60 120
SCALE: 1" = 30'

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

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601 BROAD STREET
ROME, GEORGIA 30161

ISSUED FOR BID:
9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

BMP LOCATION DETAILS

DRAWING No.
54-07

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD		

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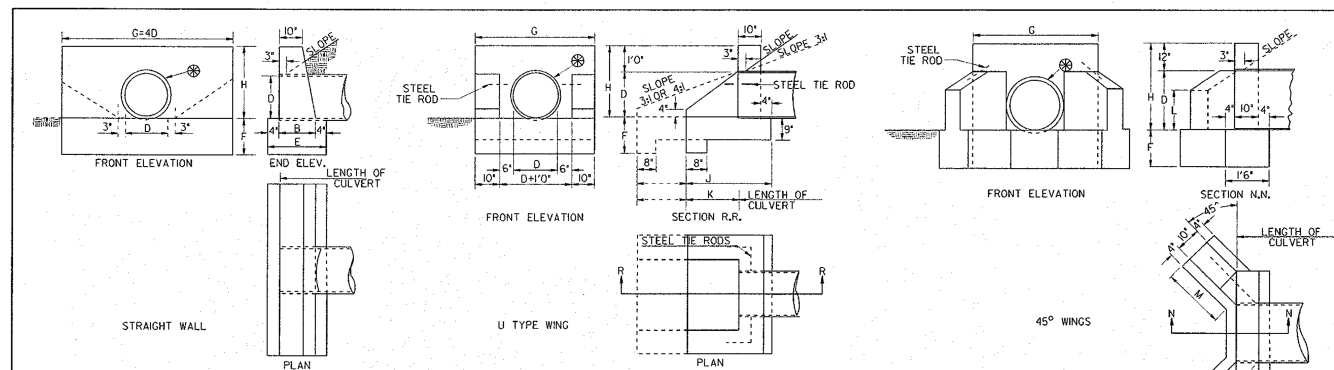
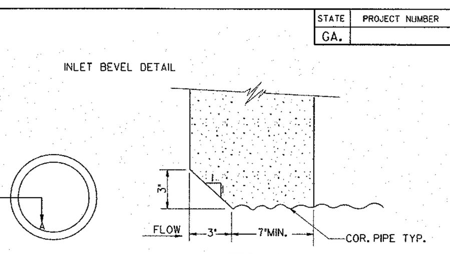
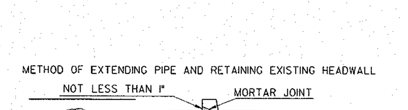
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



INLET BEVEL DETAIL



METHOD OF EXTENDING PIPE AND RETAINING EXISTING HEADWALL



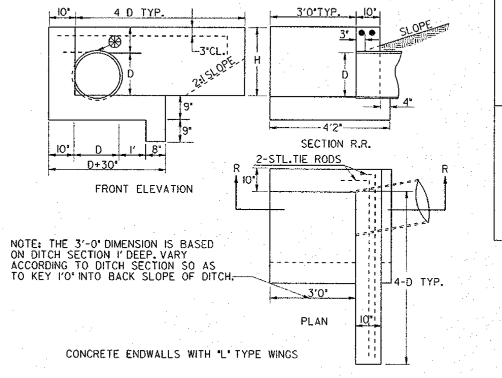
CONCRETE WITHIN THE HATCHED AREA TO BE REMOVED BY CHIPPING OR IN A MANNER APPROVED BY THE ENGINEER, FORMING A RECESS NO LESS THAN 1" LARGER THAN THE OUTSIDE DIMENSION OF THE PIPE.

DIMENSIONS							QUANTITIES ONE STRAIGHT ENDWALL				CONC. IN WALL & FTG. FOR EACH ADDL. PIPE LINE
OPENING		WALL			FOOTING		CLASS "B" CONCRETE				
D	AREA SQ.FT.	G	H	B	E	F	CUBIC FEET WALL	CUBIC FEET FOOT	TOTAL CU.FT.	TOTAL CU.YD.	CU.YD.
12"	0.8	4'0"	2'0"	1'2"	1'10"	1'0"	7.2	7.3	14.5	0.54	0.25
15"	1.2	5'0"	2'3"	1'2"	1'10"	1'2"	9.9	10.7	20.6	0.76	0.36
18"	1.8	6'0"	2'6"	1'3"	1'11"	1'3"	13.6	14.4	28.0	1.04	0.48
24"	3.1	8'0"	3'0"	1'4"	2'0"	1'4"	22.3	21.3	43.6	1.62	0.74
30"	4.9	10'0"	3'6"	1'6"	2'2"	1'6"	34.7	32.5	67.2	2.49	1.13
36"	7.1	12'0"	4'0"	1'8"	2'4"	1'8"	50.5	46.7	97.2	3.60	1.62
42"	9.6	14'0"	4'6"	1'10"	2'6"	2'0"	70.3	70.0	140.3	5.20	2.13
48"	12.6	16'0"	5'0"	2'1"	2'9"	2'0"	96.9	88.0	184.9	6.85	2.58
54"	16.0	18'0"	5'6"	2'4"	3'0"	2'0"	129.4	108.0	237.4	8.79	3.07
60"	19.6	20'0"	6'0"	2'6"	3'2"	2'0"	164.6	126.7	291.3	10.79	3.53

FOR EACH ADDITIONAL PIPE LINE, ADD TO G: OD+(D OR 3 FEET, WHICHEVER IS SMALLER)

DIMENSIONS							QUANTITIES ONE "U" ENDWALL				
OPENING		WALL			FOOTING		CLASS "B" CONCRETE				STEEL TIE RODS
D	AREA SQ.FT	G	H	K	F	J	CUBIC FEET WALL	CUBIC FEET FOOT	TOTAL CU.FT.	TOTAL CU.YD.	
2:1 FILL SLOPES											
12"	0.8	3'8"	2'0"	1'0"	1'3"	2'2"	6.6	7.3	13.9	0.52	NONE
15"	1.2	3'11"	2'3"	1'5"	1'3"	2'7"	8.3	9.1	17.4	0.64	NONE
18"	1.8	4'2"	2'6"	1'9"	1'3"	2'11"	9.9	10.7	20.6	0.76	NONE
24"	3.1	4'8"	3'0"	2'6"	1'6"	3'8"	13.9	15.5	29.4	1.09	2-¾"DIA.x2'0"
30"	4.9	5'2"	3'6"	3'3"	1'6"	4'5"	18.7	20.0	38.7	1.43	2-¾"DIA.x2'0"
36"	7.1	5'8"	4'0"	4'0"	1'9"	5'2"	21.2	26.2	50.4	1.87	2-¾"DIA.x2'0"
42"	9.6	6'2"	4'6"	4'9"	2'0"	5'11"	30.3	33.2	63.5	2.35	2-¾"DIA.x2'6"
48"	12.6	6'8"	5'0"	5'6"	2'0"	6'8"	37.3	39.6	76.9	2.85	2-¾"DIA.x3'0"
54"	16.0	7'2"	5'6"	6'3"	2'0"	7'5"	44.2	45.9	90.1	3.33	2-¾"DIA.x3'6"
60"	19.6	7'8"	6'0"	7'0"	2'0"	8'2"	51.1	49.1	100.2	3.71	2-¾"DIA.x4'0"
3:1 FILL SLOPES											
12"	0.8	3'8"	2'0"	2'0"	1'3"	3'2"	7.7	9.9	17.6	0.65	NONE
15"	1.2	3'11"	2'3"	2'9"	1'3"	3'11"	10.0	12.8	22.8	0.84	NONE
18"	1.8	4'2"	2'6"	3'6"	1'3"	4'8"	12.5	16.0	28.5	1.06	NONE
24"	3.1	4'8"	3'0"	5'0"	1'6"	6'2"	18.8	24.0	42.8	1.58	2-¾"DIA.x2'0"
30"	4.9	5'2"	3'6"	6'6"	1'6"	7'8"	26.3	32.3	58.6	2.17	2-¾"DIA.x2'0"
36"	7.1	5'8"	4'0"	8'0"	1'9"	9'2"	35.1	42.8	77.9	2.89	2-¾"DIA.x2'0"
42"	9.6	6'2"	4'6"	9'6"	2'0"	10'8"	45.4	54.5	99.9	3.70	2-¾"DIA.x2'6"
48"	12.6	6'8"	5'0"	11'0"	2'0"	12'2"	56.9	66.5	123.4	4.57	2-¾"DIA.x3'0"
54"	16.0	7'2"	5'6"	12'6"	2'0"	13'8"	66.7	79.5	146.2	5.41	2-¾"DIA.x3'6"
60"	19.6	7'8"	6'0"	13'4"	2'0"	17'2"	81.0	87.9	168.9	6.25	2-¾"DIA.x4'0"
4:1 FILL SLOPES											
12"	0.8	3'8"	2'0"	2'8"	1'3"	3'10"	8.4	11.8	20.2	0.75	NONE
15"	1.2	3'11"	2'3"	3'8"	1'3"	4'10"	11.2	15.5	26.6	0.98	NONE
18"	1.8	4'2"	2'6"	4'8"	1'3"	5'10"	14.3	19.6	33.9	1.26	NONE
24"	3.1	4'8"	3'0"	6'8"	1'6"	7'10"	22.0	29.8	51.8	1.92	2-¾"DIA.x2'0"
30"	4.9	5'2"	3'6"	8'8"	1'6"	9'10"	31.3	40.7	72.0	2.67	2-¾"DIA.x2'0"
36"	7.1	5'8"	4'0"	10'8"	1'9"	11'10"	42.5	54.1	96.6	3.58	2-¾"DIA.x2'0"
42"	9.6	6'2"	4'6"	12'8"	2'0"	13'10"	55.4	69.2	124.6	4.61	2-¾"DIA.x2'6"
48"	12.6	6'8"	5'0"	14'8"	2'0"	15'10"	70.0	84.8	154.8	5.73	2-¾"DIA.x3'0"
54"	16.0	7'2"	5'6"	16'8"	2'0"	17'10"	86.4	101.9	188.3	6.97	2-¾"DIA.x3'6"
60"	19.6	7'8"	6'0"	18'8"	2'0"	19'10"	104.7	120.5	225.2	8.34	2-¾"DIA.x4'0"

DIMENSIONS							QUANTITIES ONE ENDWALL WITH 45° WING WALLS				
OPENING		WALL			FOOTING		CLASS "B" CONCRETE				STEEL TIE RODS
D	AREA SQ.FT.	H	G	L	M	F	CUBIC FEET WALL	CUBIC FEET FOOT	TOTAL CU.FT.	TOTAL CU.YD.	
2:1 SLOPES											
18"	1.8	2'6"	3'10"	1'2"	1'7"	1'3"	9.3	10.7	20.0	0.74	NONE
24"	3.1	3'0"	4'4"	1'5"	2'1"	1'4"	13.1	14.4	27.5	1.02	2-¾"DIA.x2'0"
30"	4.9	3'6"	4'10"	1'9"	2'5"	1'6"	17.4	18.8	36.7	1.34	2-¾"DIA.x2'0"
36"	7.1	4'0"	5'4"	2'0"	2'11"	1'8"	22.6	24.6	47.2	1.75	2-¾"DIA.x3'0"
42"	9.6	4'6"	5'10"	2'3"	3'6"	2'0"	29.1	34.6	63.7	2.36	2-¾"DIA.x3'0"
48"	12.6	5'0"	6'4"	2'6"	4'0"	2'0"	35.9	39.1	75.0	2.78	2-¾"DIA.x3'0"
54"	16.0	5'6"	6'10"	2'9"	4'6¼"	2'0"	42.9	46.6	89.5	3.31	2-¾"DIA.x3'0"
60"	19.6	6'0"	7'4"	3'0"	5'0½"	2'0"	51.8	51.1	102.9	3.81	2-¾"DIA.x3'0"
3:1 SLOPES											
18"	1.8	2'6"	3'10"	1'2"	1'9"	1'3"	10.7	14.5	25.2	0.93	NONE
24"	3.1	3'0"	4'4"	1'5"	2'10"	1'4"	16.6	17.8	34.4	1.27	2-¾"DIA.x2'0"
30"	4.9	3'6"	4'10"	1'9"	3'6"	1'6"	22.9	24.4	47.3	1.71	2-¾"DIA.x2'0"
36"	7.1	4'0"	5'4"	2'1"	4'3"	1'8"	30.2	32.0	62.2	2.30	2-¾"DIA.x3'0"
42"	9.6	4'6"	5'10"	2'5"	4'11"	2'0"	38.8	44.0	82.8	3.07	2-¾"DIA.x3'0"
48"	12.6	5'0"	6'4"	2'8"	5'6"	2'0"	47.5	48.6	96.1	3.56	2-¾"DIA.x3'0"
54"	16.0	5'6"	6'10"	3'2"	6'1"	2'0"	57.0	53.4	110.4	4.09	2-¾"DIA.x3'0"
60"	19.6	6'0"	7'4"	3'6"	6'9"	2'0"	68.5	59.1	127.6	4.73	2-¾"DIA.x3'0"



NOTE: THE 3'-0" DIMENSION IS BASED ON DITCH SECTION 1' DEEP. VARY ACCORDING TO DITCH SECTION SO AS TO KEY 1'0" INTO BACK SLOPE OF DITCH.

CONCRETE ENDWALLS WITH "L" TYPE WINGS

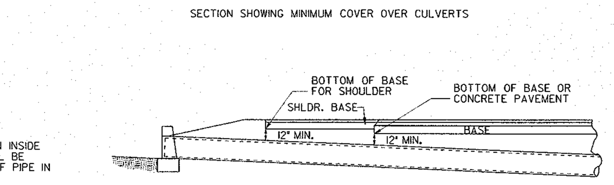
NOTE: THESE QUANTITIES WILL VARY ACCORDING TO DITCH SECTION AND ARE TO BE USED FOR ESTIMATING PURPOSES ONLY. PAYMENT TO BE MADE ACCORDING TO QUANTITIES MEASURED AS ACTUALLY PLACED.

DIMENSIONS					QUANTITIES ONE "L" ENDWALL	
D	AREA SQ.FT.	H MIN.	4D TYP.	D+30 TYP.	CU. YD. CONC.	STEEL TIE RODS
15"	1.2	2'3"	5'0"	3'9"	1.08	2-¾"DIA.x5'0"
18"	1.8	2'6"	6'0"	4'0"	1.24	2-¾"DIA.x6'0"
24"	3.1	3'0"	8'0"	4'6"	1.59	2-¾"DIA.x8'0"
30"	4.9	3'6"	10'0"	5'0"	2.00	2-¾"DIA.x10'0"
36"	7.1	4'0"	12'0"	5'6"	2.46	2-¾"DIA.x12'0"
42"	9.6	4'6"	14'0"	6'0"	2.98	2-¾"DIA.x14'0"
48"	12.6	5'0"	16'0"	6'6"	3.53	2-¾"DIA.x16'0"
54"	16.0	5'6"	18'0"	7'0"	4.13	2-¾"DIA.x18'0"
60"	19.6	6'0"	20'0"	7'6"	4.85	2-¾"DIA.x20'0"

3:1 FILL SLOPES

NOTE: QUANTITIES OF CONCRETE ARE BASED ON INSIDE DIAMETER OF PIPE. NO DEDUCTIONS SHALL BE MADE FOR SHELL THICKNESS OR SKEW OF PIPE IN COMPUTING PAY QUANTITIES.

SECTION SHOWING MINIMUM COVER OVER CULVERTS



NOTE: GRADE GENERALLY TO FOLLOW SLOPE OF STREAM.

⊛ IF PIPE HAS NEITHER A GROOVE NOR A SPIGOT AT ITS INLET, AN INLET BEVEL WILL BE REQ'D.

NOTE TO DESIGNER

THIS STANDARD IS LIMITED FOR USE ONLY AT SPECIAL CONDITIONS, OTHERWISE, SEE CURRENT STANDARDS 1120 & 1125.

HEADWALLS ARE NOT TO BE PLACED INSIDE THE CLEAR ZONE.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
PIPE CULVERT
CONCRETE HEADWALL

NO SCALE — REV. & REDR. AUG. 1999
DESIGNED / TRACED / CHECKED — (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER — (APPROVED) CHIEF ENGINEER
NUMBER 1001-B

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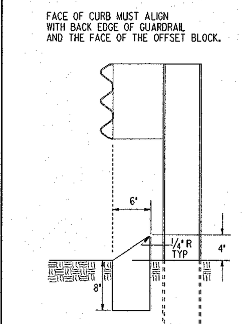
11/17/2011 8:14:31 AM \\GDOT-DSNI\GOPLOT\GCF\GO_Kip8000.gcf tcox M:\GARY\revised 9032B\9032B.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

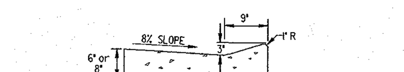
FACE OF CURB MUST ALIGN WITH BACK EDGE OF GUARDRAIL AND THE FACE OF THE OFFSET BLOCK.



TYPE 8

TYPE 8 CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4012C.

RAISED EDGE WITH CONCRETE GUTTER



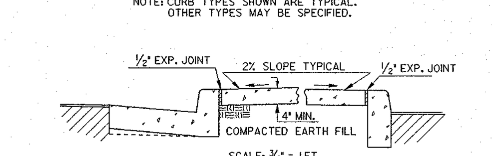
SCALE: 1" = 1FT.

RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

NOTE:
IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

CONCRETE MEDIAN (Between Curbs)

NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.

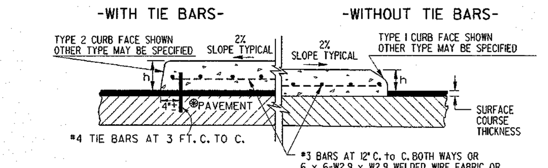


SCALE: ¾" = 1FT.

NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

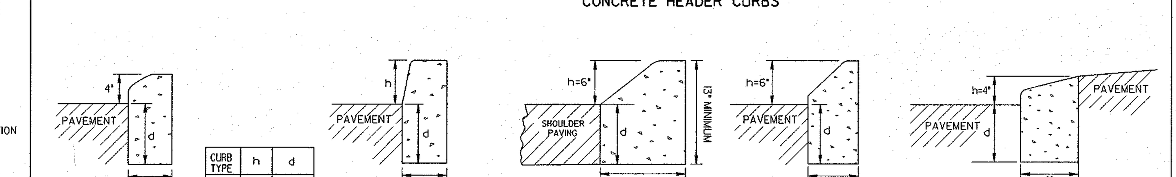
CONCRETE MEDIANS (Integral)

SCALE: 1"=1FT.



NOTE:
IF FINAL SURFACE COURSE IN PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

CONCRETE HEADER CURBS



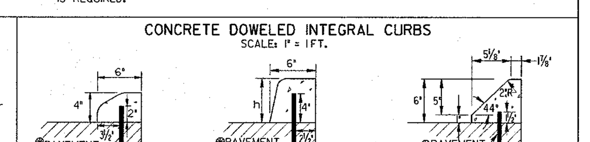
CURB TYPE	h	d
1	4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	4"	8" min.

THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

SCALE: 1½" = 1FT.

CONCRETE DOWELED INTEGRAL CURBS

SCALE: 1" = 1FT.

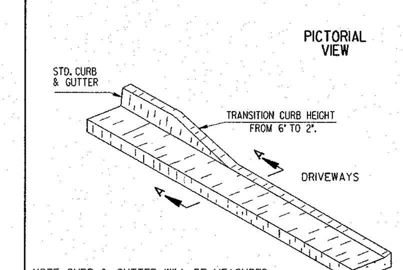


⊛ NOTES:
1. CONCRETE CURB CAN BE INSTALLED AFTER INTIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLAYING CONCRETE PAVEMENT.
2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVMENT.
3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE THE TIE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDIAN AT 20 FT. SPACING.

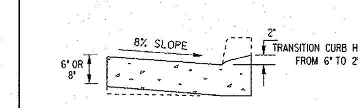
MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)		
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 or 4	8"	12"
7	6"	8"

NOTE:
TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT. (AASHTO M-31)

DETAILS OF RECESSED CURB FOR DRIVEWAYS
NO SCALE



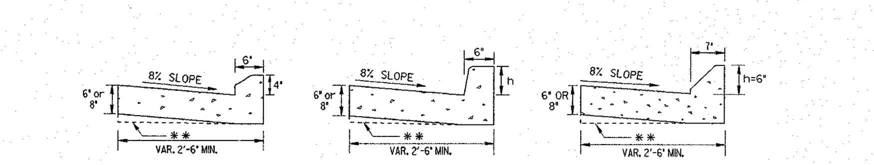
NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE



SECTIONAL VIEW
SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

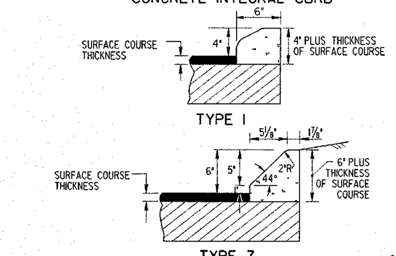
CONCRETE CURB & GUTTER



SCALE: 1"= 1FT.

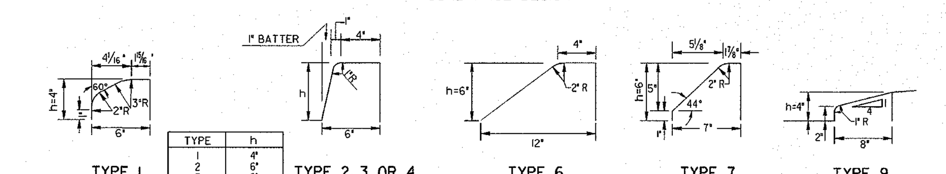
✻✻ AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

CONCRETE INTEGRAL CURB



SCALE: 1½" = 1FT.

CURB FACE DESIGN



TYPE	h
1	4"
2	6"
3	8"
4	10"
6	6"
7	6"
9	4"

SCALE: 2"=1FT.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

SCALE: AS SHOWN — REVISED AND REDRAWN OCT. 2011
REVISION: REV. TYPE 9 CURB DETAIL & REV. OVERALL LAYOUT (11-15-11); REV. MEDIAN NOTE AND ADDED TYPE 9 CURB DETAIL (1-27-11); ADDED TYPE 9 DETAIL (3-03)
DES. / DRW. / TRA. / CHK. — (SUBMITTED) STATE DESIGN POLICY ENGINEER — (APPROVED) CHIEF ENGINEER
NUMBER 9032B

8/3/2006 11:33:34 AM \\GDOT-DSNI\GOPLOT\GCF\go_tiff_output_gcf gowens M:\GARY\REVISED 9100\9100.pcf GO-RD6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

GENERAL NOTES :

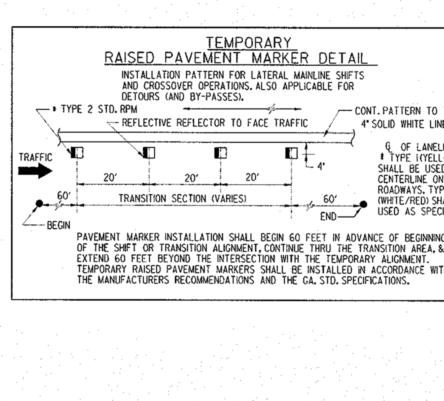
1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
7. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS-AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS, UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND, THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
10. ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150, LUMP SUM, WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL. OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED, EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
11. FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMPS AT ALL TIMES.
12. ALL CROSSROADS, SIDEROADS, RAMPS OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
13. MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED; APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
14. ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
15. CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
16. THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES. REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
17. EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER. IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
18. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINII, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.
(b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

STANDARD LEGEND

- STRIPED DRUM
- TYPE III BARRICADES
- SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE "C" STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
- SEQUENTIAL OR FLASHING ARROW
- PORTABLE CHANGEABLE MESSAGE SIGN
- PERMANENT TYPE POST MOUNTED SIGN
- TEMPORARY POST MOUNTED SIGN
- PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
- WORK AREA
- TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
- FLAGGER WITH STOP-SLOW PADDLE
- TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
- TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
- TYPE I YELLOW DELINEATOR - SINGLE FACE
- TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
- TYPE I YELLOW DELINEATOR DOUBLE FACE

TEMPORARY
RAISED PAVEMENT MARKER DETAIL

INSTALLATION PATTERN FOR LATERAL MAINLINE SHIFTS AND CROSSOVER OPERATIONS. ALSO APPLICABLE FOR DETOURS (AND BY-PASSES).



PAVEMENT MARKER INSTALLATION SHALL BEGIN 60 FEET IN ADVANCE OF BEGINNING OF THE SHIFT OR TRANSITION ALIGNMENT, CONTINUE THRU THE TRANSITION AREA, & EXTEND 60 FEET BEYOND THE INTERSECTION WITH THE TEMPORARY ALIGNMENT. TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND THE GA. STD. SPECIFICATIONS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
TRAFFIC CONTROL
GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS

NO SCALE — AUG., 1999
REVISION: REVISED GENERAL NOTES AND LEGEND. DELETED TWO DETAILS. (3-30-06); SPEC. BAR. SH. SPEC. (4-24-01)
DES. / DRW. / TRA. / CHK. — (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER — (APPROVED) CHIEF ENGINEER
NUMBER 9100

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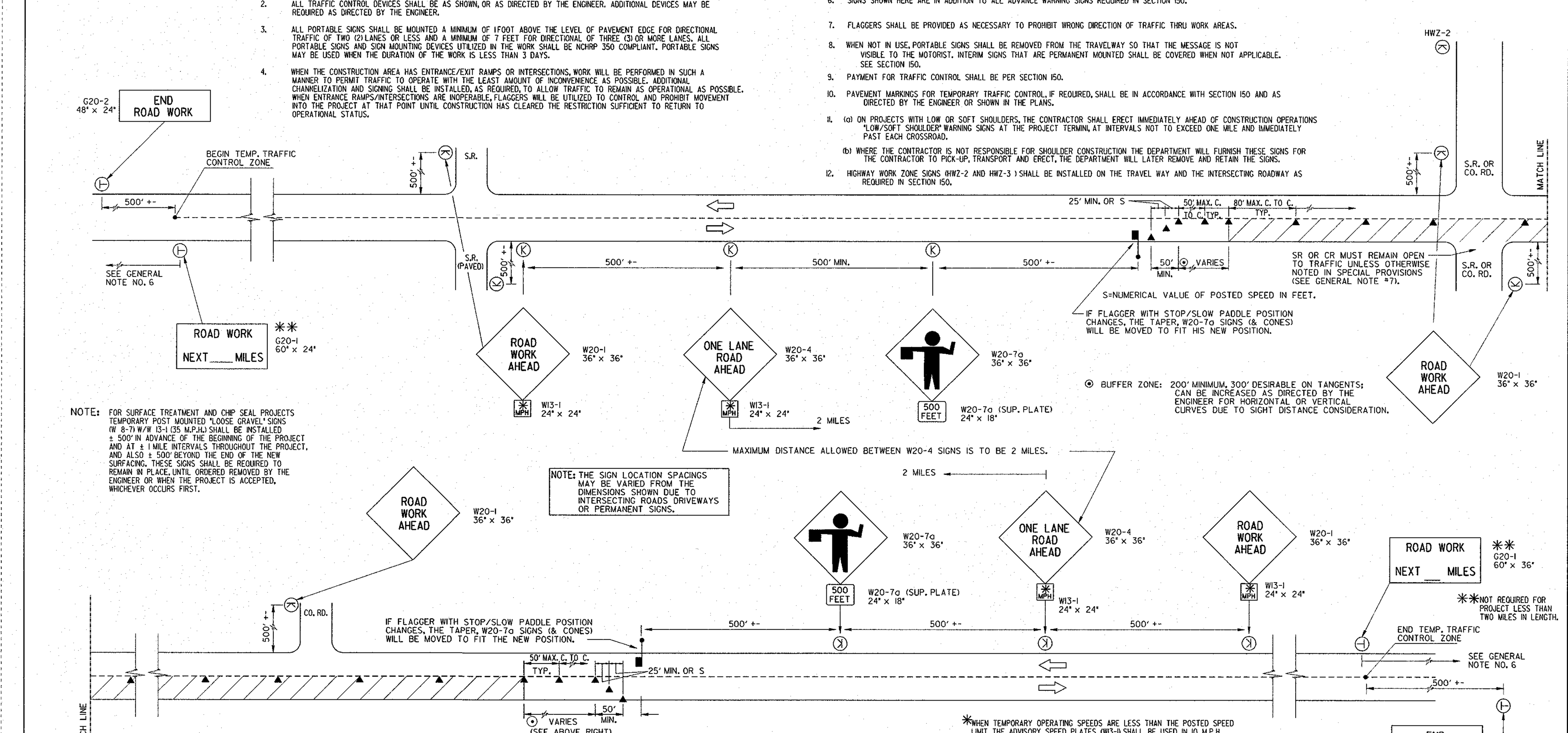
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

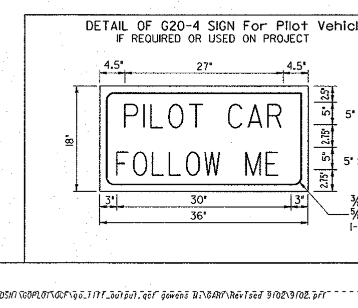
GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED IN SECTION 150.
7. FLAGGERS SHALL BE PROVIDED AS NECESSARY TO PROHIBIT WRONG DIRECTION OF TRAFFIC THRU WORK AREAS.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENT MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150.
10. PAVEMENT MARKINGS FOR TEMPORARY TRAFFIC CONTROL, IF REQUIRED, SHALL BE IN ACCORDANCE WITH SECTION 150 AND AS DIRECTED BY THE ENGINEER OR SHOWN IN THE PLANS.
11. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED ONE MILE AND IMMEDIATELY PAST EACH CROSSROAD.
(b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK-UP, TRANSPORT AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.
12. HIGHWAY WORK ZONE SIGNS (HWZ-2 AND HWZ-3) SHALL BE INSTALLED ON THE TRAVEL WAY AND THE INTERSECTING ROADWAY AS REQUIRED IN SECTION 150.



NOTE: FOR SURFACE TREATMENT AND CHIP SEAL PROJECTS TEMPORARY POST MOUNTED "LOOSE GRAVEL" SIGNS (W 8-7) W/W 13-1 (35 M.P.H.) SHALL BE INSTALLED ± 500' IN ADVANCE OF THE BEGINNING OF THE PROJECT AND AT ± 1 MILE INTERVALS THROUGHOUT THE PROJECT, AND ALSO ± 500' BEYOND THE END OF THE NEW SURFACING. THESE SIGNS SHALL BE REQUIRED TO REMAIN IN PLACE, UNTIL ORDERED REMOVED BY THE ENGINEER OR WHEN THE PROJECT IS ACCEPTED, WHICHEVER OCCURS FIRST.

DETAIL OF G20-4 SIGN For Pilot Vehicle
IF REQUIRED OR USED ON PROJECT



✻WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (W13-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEED IS REDUCED TO THE TEMPORARY OPERATING SPEED. TEMPORARY OPERATING SPEED SHALL BE 35 M.P.H. UNLESS OTHERWISE DETERMINED BY THE ENGINEER.

STANDARD LEGEND

- STRIPED DRUM
- PERMANENT TYPE POST MOUNTED SIGN (7' MOUNT HEIGHT)
- TEMPORARY POST MOUNTED SIGN - (7' MOUNT HEIGHT)
- PORTABLE MOUNTED SIGN - MINIMUM HEIGHT OF 1FT. ABOVE THE EDGE OF PAVEMENT; INSTALLED AS PER NCHRP 350 TESTING REQUIREMENTS.
- WORK AREA
- TRAFFIC CONE - 28" MIN. - DAYTIME USE ONLY
- FLAGGER WITH STOP-SLOW PADDLE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
TRAFFIC CONTROL DETAIL
FOR LANE CLOSURE
ON TWO-LANE HIGHWAY

NO SCALE — REV. & REDR. JULY, 1999
REVISION: REMOVED FLAGS AND REV. GENERAL NOTES, REV. SIGN G20-2A TO G20-2. (3-30-06)
DES. / DRW. / TRA. / CHK. — (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER — (APPROVED) CHIEF ENGINEER
NUMBER 9102

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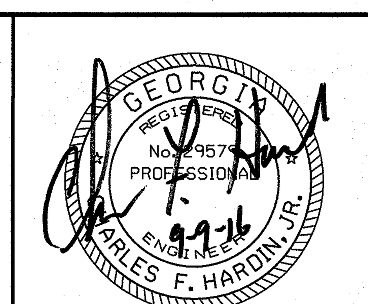


Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
P:(706) 235-4143 F:(706) 235-4191
www.southernEandS.com

PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

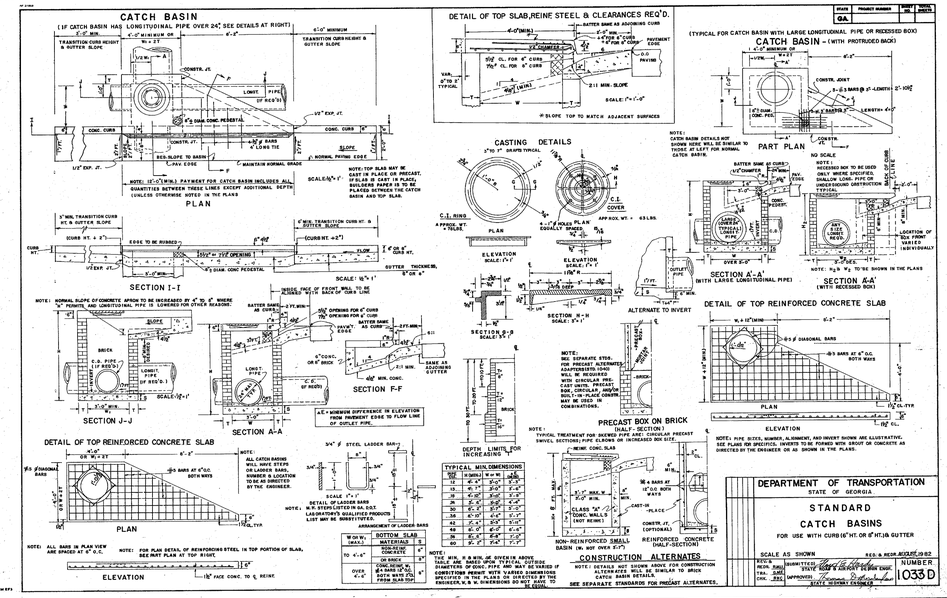
ISSUED FOR BID:	
9/9/2016	
ISSUED FOR CONSTRUCTION:	
REVISION DATES:	

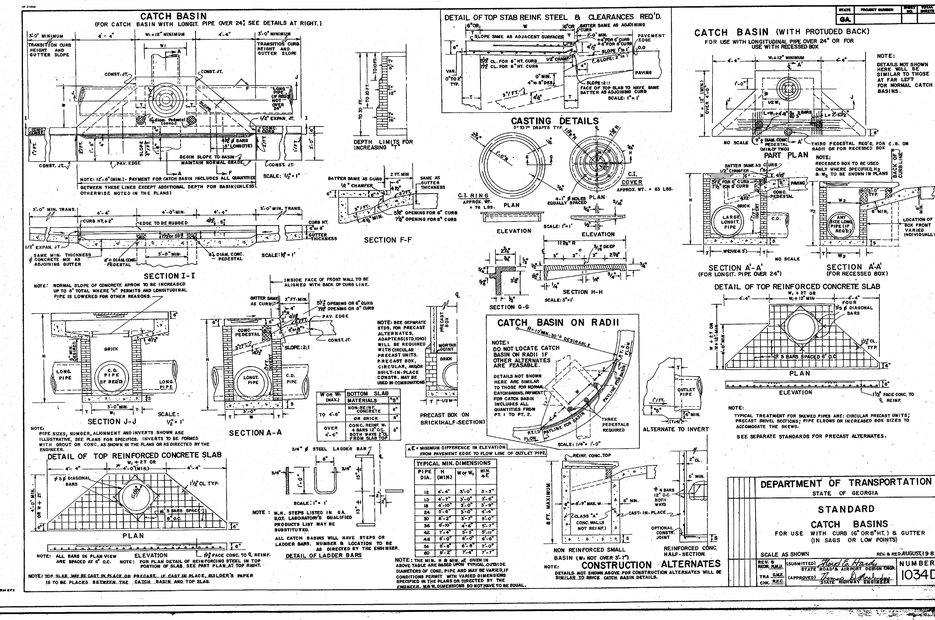
CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

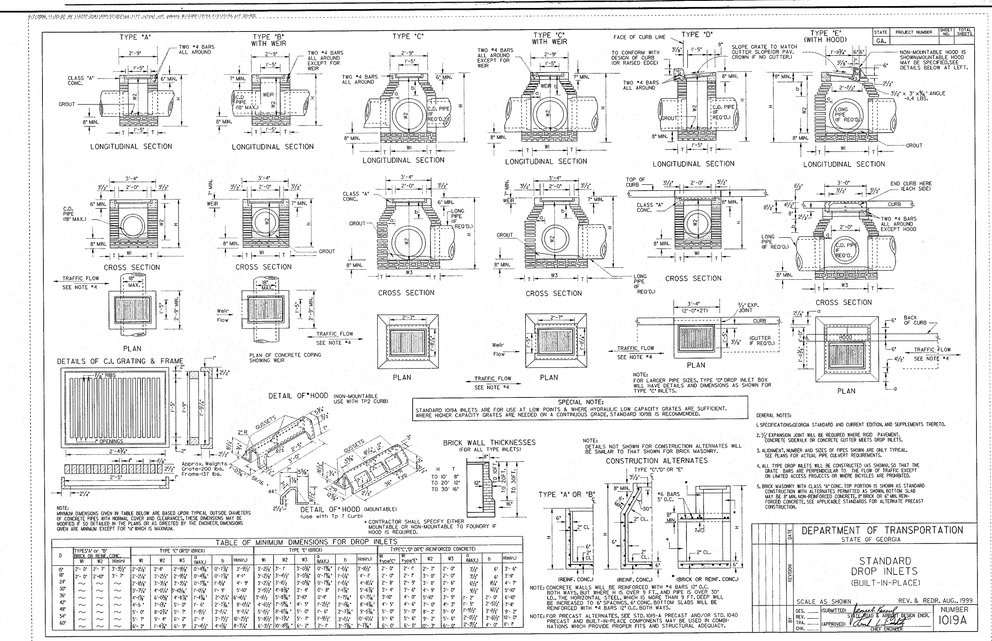
MISCELLANEOUS DETAILS

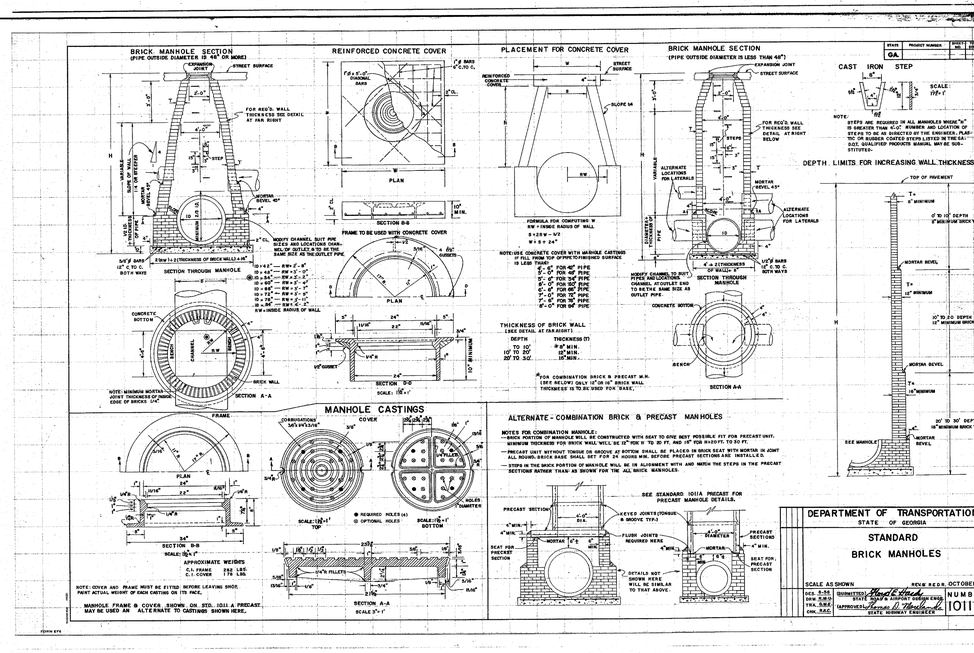
DRAWING No.
55-01

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD		









GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 15579 CHARLES F. HARDIN, JR. 9-9-2016

SES
Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
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www.southernEandS.com

PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

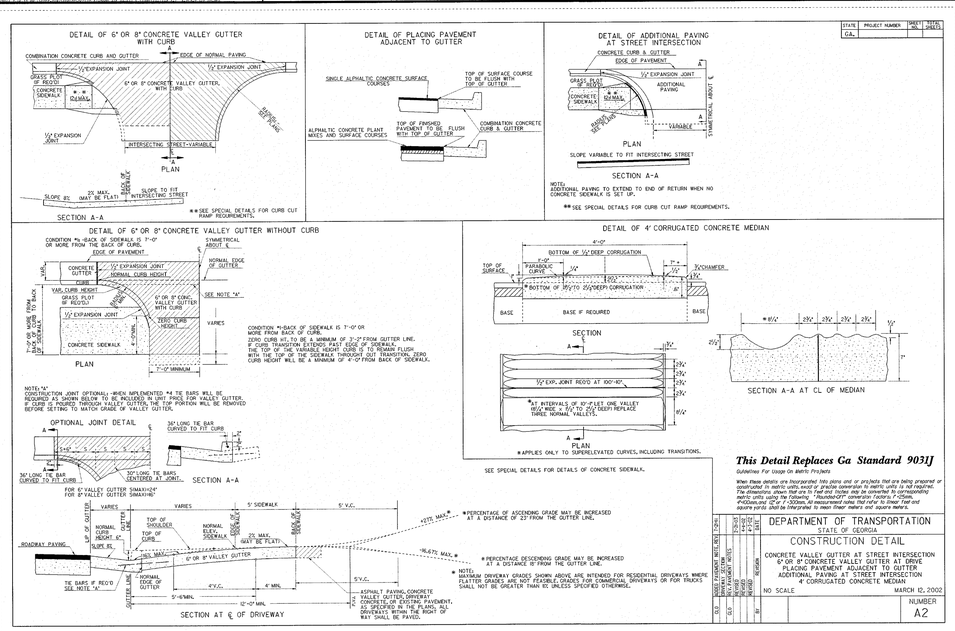
ISSUED FOR BID:	9/9/2016
ISSUED FOR CONSTRUCTION:	
REVISION DATES:	

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

MISCELLANEOUS DETAILS

DRAWING No.
55-02

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD		

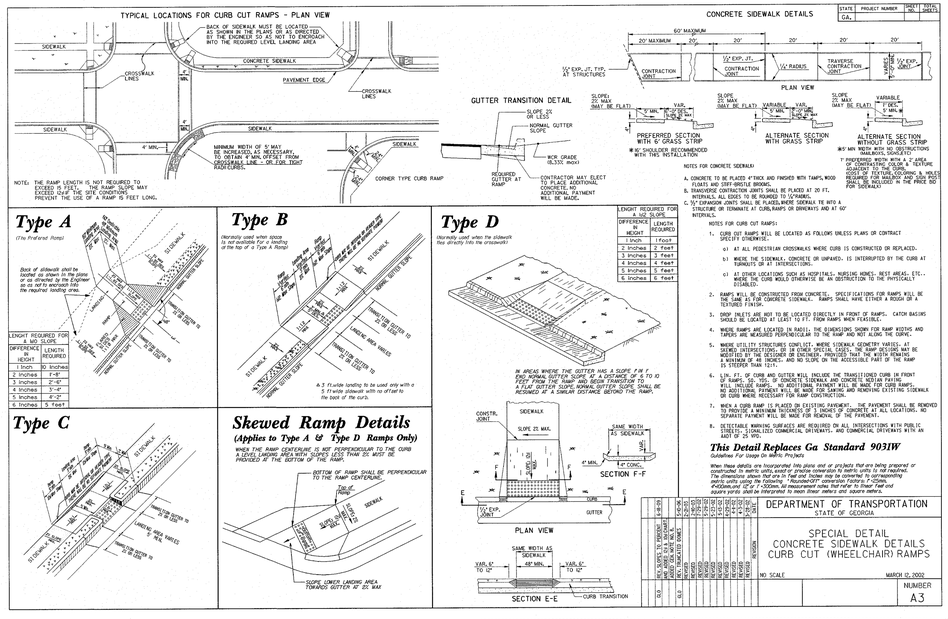


This Detail Replaces Ga Standard 9031J

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following: 1"=25mm, 1'=300mm, for measurement along that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAIL
CONCRETE VALLEY GUTTER AT STREET INTERSECTION
6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE
PLACING PAVEMENT ADJACENT TO GUTTER
ADDITIONAL PAVING AT STREET INTERSECTION
4" CORRUGATED CONCRETE MEDIAN
NO SCALE — MARCH 12, 2002
NUMBER A2

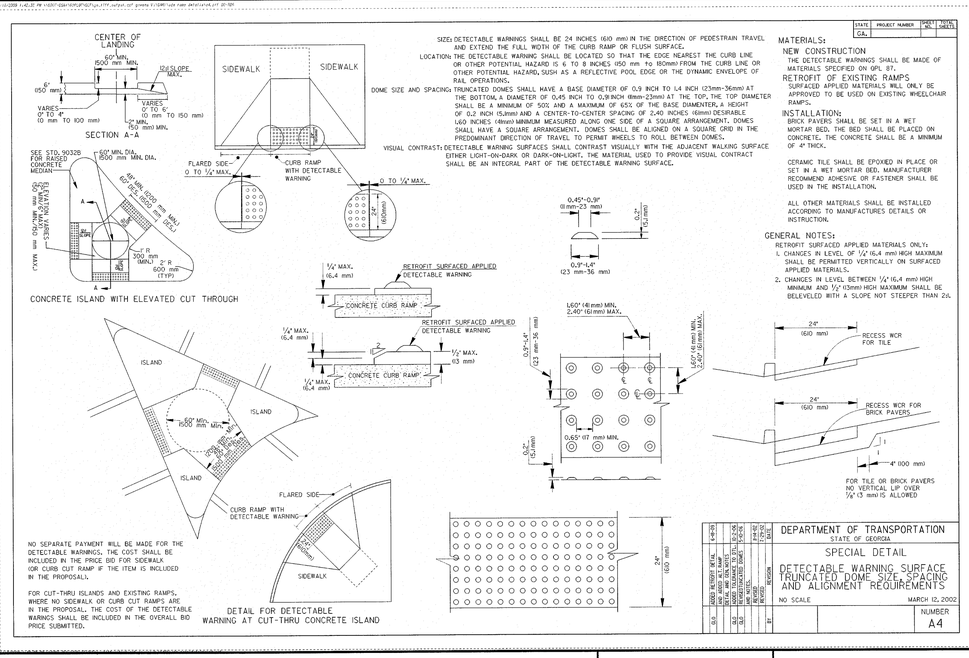


This Detail Replaces Ga Standard 9031W

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following: 1"=25mm, 1'=300mm, for measurement along that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS
NO SCALE — MARCH 12, 2002
NUMBER A3



SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm to 200mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUCH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.9 INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMETER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE. 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRACT SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.

MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON SPL 87.

RETROFIT OF EXISTING RAMPS

SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

GENERAL NOTES:

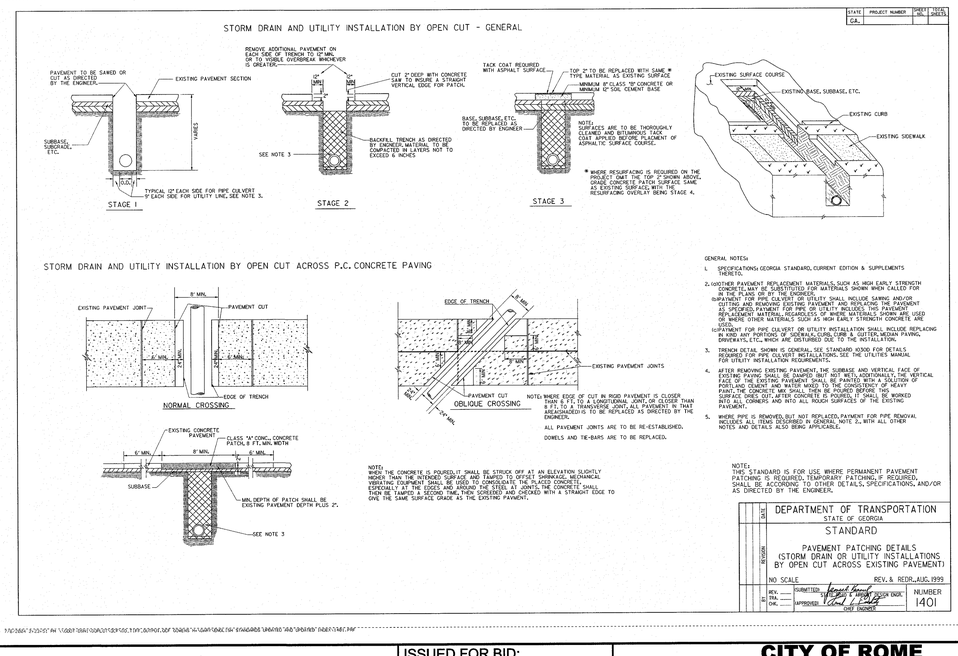
RETROFIT SURFACED APPLIED MATERIALS ONLY:

1. CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BELEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS, THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL, THE COST OF THE DETECTABLE WARNOS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
SPECIAL DETAIL
DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS
NO SCALE — MARCH 12, 2002
NUMBER A4



GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
2. COST: OTHER PAVEMENT REPLACEMENT MATERIALS, SUCH AS HIGH EARLY STRENGTH CONCRETE, MAY BE SUBSTITUTED FOR MATERIALS SHOWN WHICH FAILED FOR IN THE PLANS OR BY THE ENGINEER.
   SUPATENT FOR ROAD OR STREET PAVEMENT UTILITY SHALL INCLUDE SAWING AND/OR CUTTING AND REMOVING THE PAVEMENT AND REPLACING THE PAVEMENT TO SPECIFIED PAVEMENT FOR PIPE OR UTILITY INCLUDES THIS PAVEMENT REPLACEMENT MATERIAL, REGARDLESS OF WHERE MATERIALS SHOWN ARE USED OR WHERE OTHER MATERIALS SUCH AS HIGH EARLY STRENGTH CONCRETE ARE USED.
   SUPATENT FOR PIPE CULVERT OR UTILITY INSTALLATION SHALL INCLUDE REPLACING IN KIND ANY PORTIONS OF SIDEWALK, CURB, CURB & GUTTER, MEDIAN PAVING, DRIVEWAYS, ETC., WHICH ARE DISTURBED DUE TO THE INSTALLATION.
3. TRENCH DETAIL SHOWN IS GENERAL. SEE STANDARD 10300 FOR DETAILS REQUIRED FOR PIPE CULVERT INSTALLATIONS. SEE THE UTILITIES MANUAL FOR UTILITY INSTALLATION REQUIREMENTS.
4. AFTER REMOVING EXISTING PAVEMENT, THE SUBBASE AND VERTICAL FACE OF EXISTING PAVING SHALL BE DAMPED WHEN NOT WETTED. ADDITIONALLY, THE VERTICAL FACE OF EXISTING PAVING SHALL BE COATED WITH A THIN GROUT MIXTURE OF PORTLAND CEMENT AND WATER MIXED TO THE CONSISTENCY OF HEAVY PAINT. THE CONCRETE MIX SHALL THEN BE POURED BEFORE THIS GROUT COATING DRIES. AFTER CONCRETE IS POURED, IT SHALL BE WORKED INTO ALL CORNERS AND INTO ALL ROUGH SURFACES OF THE EXISTING PAVEMENT.
5. WHERE PIPE IS REMOVED, BUT NOT REPLACED, PAYMENT FOR PIPE REMOVAL INCLUDES ALL ITEMS DESCRIBED IN GENERAL NOTE 2, WITH ALL OTHER NOTES AND DETAILS ALSO BEING APPLICABLE.

NOTE: THE CONCRETE IS POURED, IT SHALL BE STRUCK OFF AT AN ELEVATION SLIGHTLY HIGHER THAN THE INTENDED SURFACE AND TAMPED TO OFFSET SHRINKAGE. MECHANICAL VIBRATING EQUIPMENT SHALL BE USED TO CONSOLIDATE THE PLACED CONCRETE, ESPECIALLY AT THE EDGES AND AROUND THE STEEL AT JOINTS. THE CONCRETE SHALL THEN BE SMOOTHED AND FINISHED TO ELEVATIONS FLUSH WITH A STRAIGHT EDGE TO OVE THE SAME SURFACE GRADE AS THE EXISTING PAVMENT.

NOTE: WHERE EDGE OF CUT IN RIGID PAVEMENT IS CLOSER THAN 6 FT. TO A LONGITUDINAL JOINT, OR CLOSER THAN 6 FT. TO A TRANSVERSE JOINT, ALL PAVEMENT IN THAT BREAKOUT IS TO BE REPLACED AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT JOINTS ARE TO BE RE-ESTABLISHED.

DOWELS AND TIE-BARS ARE TO BE REPLACED.

NOTE: THIS STANDARD IS FOR USE WHERE PERMANENT PAVEMENT PATCHING IS REQUIRED. TEMPORARY PATCHING, IF REQUIRED, SHALL BE ACCORDING TO OTHER DETAILS, SPECIFICATIONS, AND/OR AS DIRECTED BY THE ENGINEER.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
PAVEMENT PATCHING DETAILS
(STORM DRAIN OR UTILITY INSTALLATIONS BY OPEN CUT ACROSS EXISTING PAVEMENT)
NO SCALE — REV. & REDR. AUG. 1999
NUMBER 1401

GEORGIA PROFESSIONAL ENGINEER No. 29550 — 9-9-16 — CHARLES F. HARDIN, JR.

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www.southernEandS.com

PROJECT OWNER:

CITY OF ROME
601 BROAD STREET
ROME, GEORGIA 30161

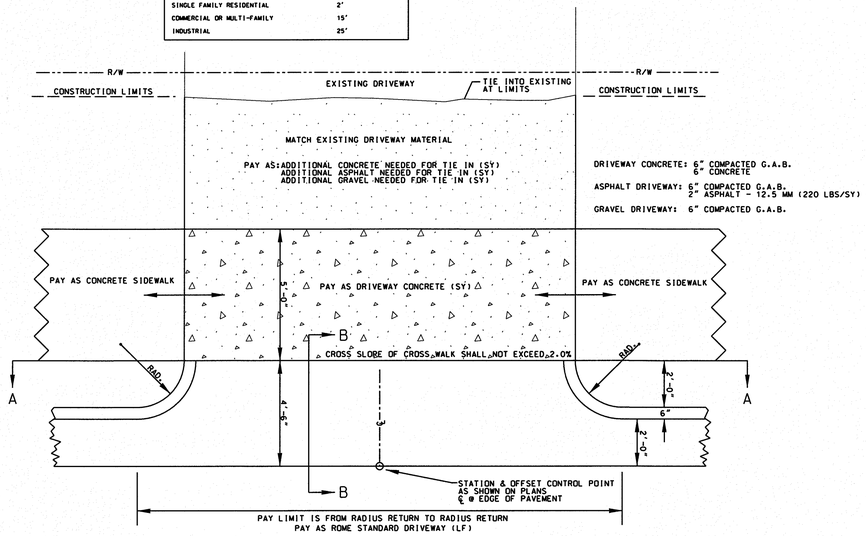
ISSUED FOR BID: 9/9/2016	**CITY OF ROME PUBLIC WORKS**
ISSUED FOR CONSTRUCTION:	**BURNETT FERRY ROAD**
REVISION DATES:	**MISCELLANEOUS DETAILS**
	DRAWING No. 55-03

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD		

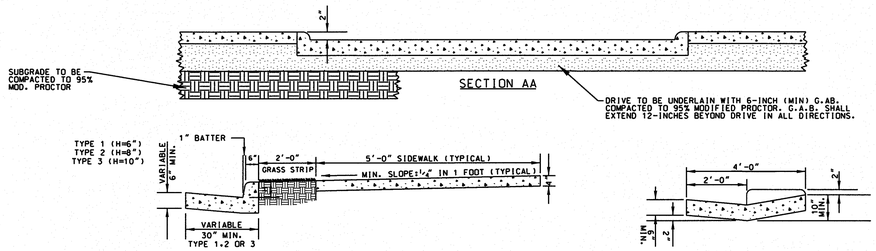
NOTE:
HANDICAP RAMPS REQUIRED AT THE INTERSECTION OF SIDEWALK AND ALL DRIVES. RAMPS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH GEORGIA D.O.T. STANDARDS A3 AND A4. TRUNCATED DOME MATS (YELLOW) ARE ONLY REQUIRED AT THE INTERSECTION OF SIDEWALKS AND INTERSECTING STREETS.

RADIUS CHART

LAND USE	MINIMUM DRIVEWAY RADIUS
SINGLE FAMILY RESIDENTIAL	2'
COMMERCIAL OR MULTI-FAMILY	15'
INDUSTRIAL	25'



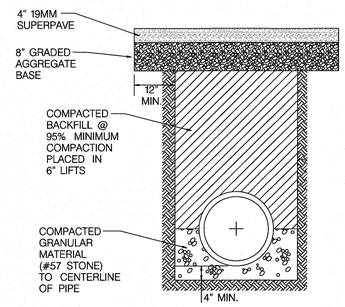
PLAN



TYPICAL SECTION 30" CURB & GUTTER WITH 4" SIDEWALK

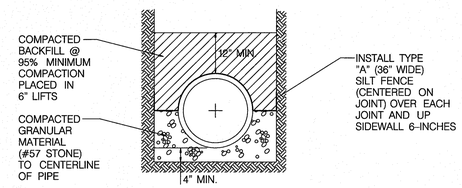
SECTION BB

CITY OF ROME DRIVEWAY DETAIL AND CURB & GUTTER SECTIONS



PAVEMENT REPLACEMENT FOR ASPHALT PAVEMENT

SCALE : NOT TO SCALE



PIPE BEDDING DETAIL

SCALE : NOT TO SCALE

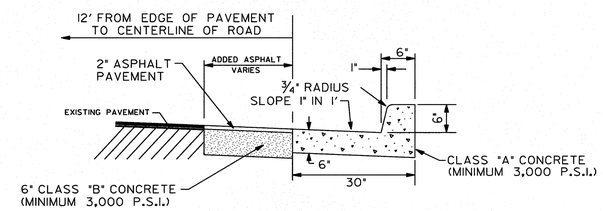
NOTES:

1. OMIT GASKETS FROM ALL R.C.P.
2. PROVIDE WEEP HOLES AT ALL DRAINAGE STRUCTURES FROM GRANULAR BEDDING AREA INTO STRUCTURE.

SECTIONS WITH LESS THAN TWO FEET OF NEW ASPHALT TO BE ADDED SHALL HAVE SIX INCHES OF G.A.B., SIX INCHES OF CONCRETE (MINIMUM 3,000 P.S.I.) AND TWO INCHES OF PAVEMENT.

SECTIONS WIDER THAN TWO FEET CAN BE CONSTRUCTED WITH SIX INCHES OF G.A.B. AND TWO INCHES OF PAVEMENT.

PRIOR TO THE CONSTRUCTION OF THE PROPOSED 30" CURB AND GUTTER ALONG BURNETT FERRY ROAD, THE CONTRACTOR IS TO COORDINATE THE CONSTRUCTION WITH TIM SCHULER AT (706) 378-3861 OR TERRY DOBSON AT (706) 252-4251.



TYPICAL CURB AND GUTTER SECTION ALONG BURNETT FERRY ROAD

N.T.S.

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 17585 CHARLES F. HARDIN, JR. 9-9-16

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ROME, GEORGIA 30161

ISSUED FOR BID:
9/9/2016
ISSUED FOR CONSTRUCTION:
REVISION DATES:

CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

MISCELLANEOUS DETAILS

DRAWING No.
55-04

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD		

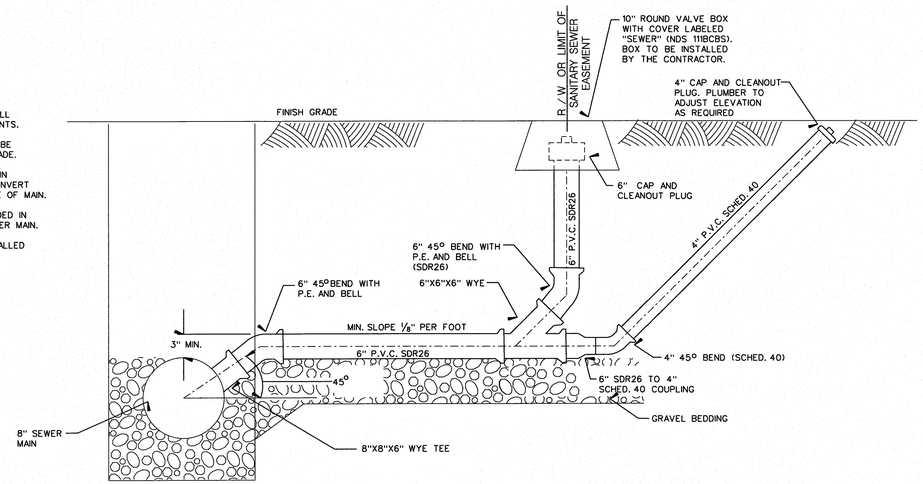
NOTES:
REQUIRED PRESSURE TESTS SHALL INCLUDE SERVICE LINE COMPONENTS.

CLEANOUT CONNECTIONS SHALL BE ADJUSTED TO MATCH FINISH GRADE.

WYE CONNECTION AT SEWER MAIN SHALL BE ROTATED TO MATCH INVERT OF SERVICE LINE TO FLOW LINE OF MAIN.

THE SERVICE LINES TO BE BEDDED IN THE SAME MANNER AS THE SEWER MAIN.

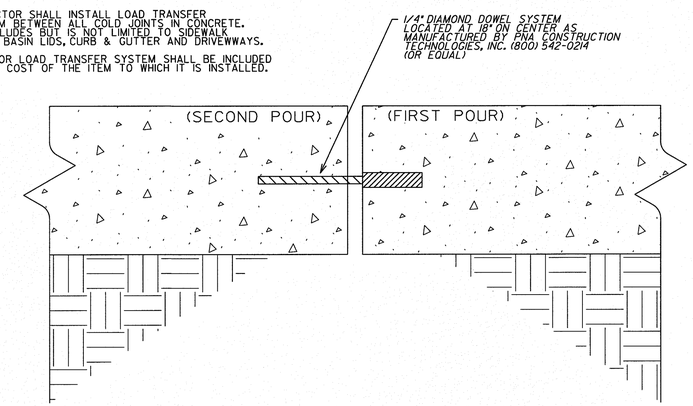
THE VALVE BOX IS TO BE INSTALLED BY THE CONTRACTOR.



NEW SANITARY SEWER SERVICE CONNECTION DETAIL

SCALE : NOT TO SCALE

NOTES:
1. CONTRACTOR SHALL INSTALL LOAD TRANSFER SYSTEM BETWEEN ALL COLD JOINTS IN CONCRETE. THIS INCLUDES BUT IS NOT LIMITED TO SIDEWALK CATCH BASIN LIDS, CURB & GUTTER AND DRIVEWAYS.
2. COST FOR LOAD TRANSFER SYSTEM SHALL BE INCLUDED IN THE COST OF THE ITEM TO WHICH IT IS INSTALLED.



DIAMOND DOWEL LOAD TRANSFER SYSTEM

N.T.S.

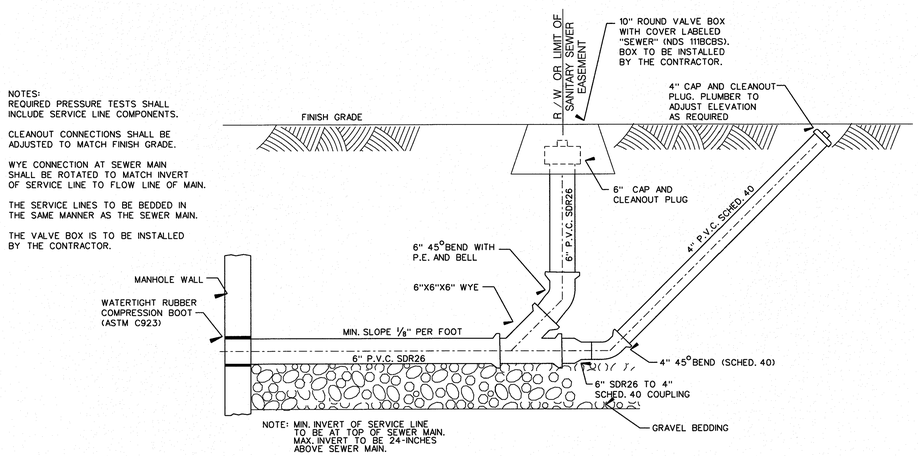
NOTES:
REQUIRED PRESSURE TESTS SHALL INCLUDE SERVICE LINE COMPONENTS.

CLEANOUT CONNECTIONS SHALL BE ADJUSTED TO MATCH FINISH GRADE.

WYE CONNECTION AT SEWER MAIN SHALL BE ROTATED TO MATCH INVERT OF SERVICE LINE TO FLOW LINE OF MAIN.

THE SERVICE LINES TO BE BEDDED IN THE SAME MANNER AS THE SEWER MAIN.

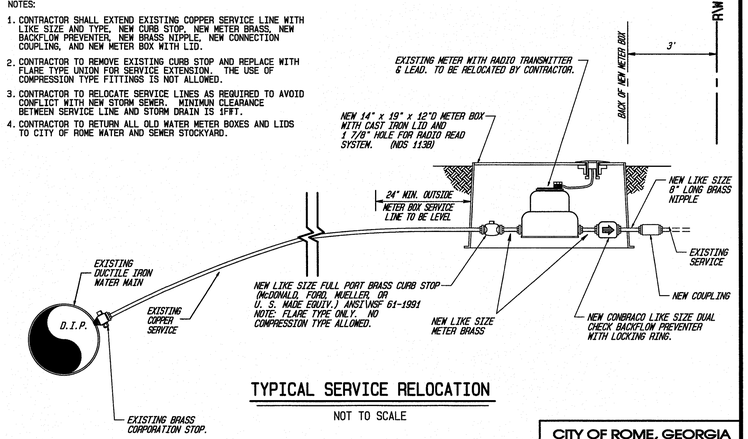
THE VALVE BOX IS TO BE INSTALLED BY THE CONTRACTOR.



SANITARY SEWER SERVICE TO MANHOLE CONNECTION DETAIL

SCALE : NOT TO SCALE

NOTES:
1. CONTRACTOR SHALL EXTEND EXISTING COPPER SERVICE LINE WITH LIKE SIZE AND TYPE, NEW CURB STOP, NEW METER BRASS, NEW BACKFLOW PREVENTER, NEW BRASS NIPPLE, NEW CONNECTION COUPLING, AND NEW METER BOX WITH LID.
2. CONTRACTOR TO REMOVE EXISTING CURB STOP AND REPLACE WITH FLARE TYPE UNION FOR SERVICE EXTENSION. THE USE OF COMPRESSION TYPE FITTINGS IS NOT ALLOWED.
3. CONTRACTOR TO RELOCATE SERVICE LINES AS REQUIRED TO AVOID CONFLICT WITH NEW STORM SEWER. MINIMUM CLEARANCE BETWEEN SERVICE LINE AND STORM DRAIN IS 1FWT.
4. CONTRACTOR TO RETURN ALL OLD WATER METER BOXES AND LIDS TO CITY OF ROME WATER AND SEWER STOCKYARD.



TYPICAL SERVICE RELOCATION

NOT TO SCALE

CITY OF ROME, GEORGIA
ENGINEERING DEPARTMENT

TYPICAL WATER SERVICE RELOCATION STANDARD DETAIL

SCALE: AS SHOWN	DRAWN BY: AMC
DATE: 11/01/01	FINAL APPROVAL:
EFFECTIVE DATE: 12-23-14 SHEET 1 OF 1	

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CITY OF ROME
PUBLIC WORKS
BURNETT FERRY ROAD

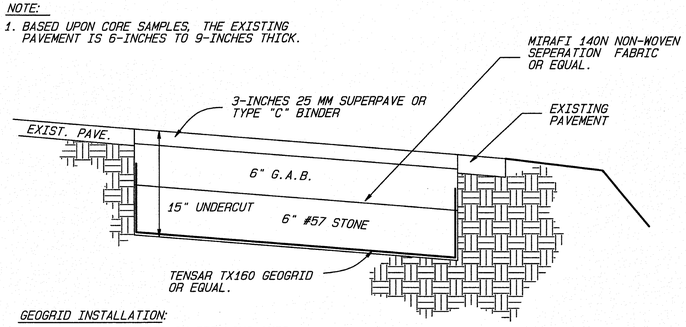
MISCELLANEOUS DETAILS

DRAWING No. 55-05

STATE	COUNTY	SHEET NO.	TOTAL SHEETS
GA	FLOYD		

NOTE:

1. BASED UPON CORE SAMPLES, THE EXISTING PAVEMENT IS 6-INCHES TO 9-INCHES THICK.



GEOGRID INSTALLATION:

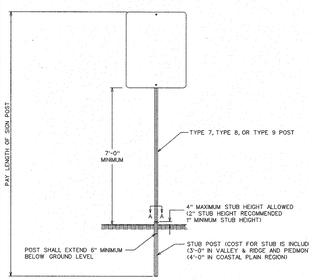
1. OVERLAP GEOGRID ON ITS LONG AXIS BY 18-INCHES AND SECURE WITH WIRE TIES EVERY 5 FEET.
2. OVERLAP GEOGRID AT IT ENDS BY THREE (3) FEET.
3. GEOGRID TO EXTEND UP ALL SIDEWALLS TO WHERE GAB BEGINS.
4. NO ADDITIONAL PAYMENT WILL BE MADE FOR GEO-GRID UP SIDEWALLS. PAYMENT BASED ON HORIZONTAL DIEMENSIONS ONLY.

CITY OF ROME, GEORGIA
ENGINEERING DEPARTMENT

TYPICAL "DEEP PATCHING" STANDARD DETAIL

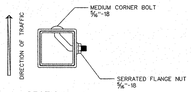
SCALE: AS SHOWN	DRAWN BY: AMC
DATE: 05/31/2016	FINAL APPROVAL:
EFF. DATE: 05/31/2016	SHEET 1 OF 1

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



FRONT VIEW

POST	STUB SIZE
TYPE 7	2¼" x 2¼"
TYPE 8	2¾" x 2¾"
TYPE 9	2½" x 2½"



SECTION A-A

SIGN POST SELECTION CHART

70MPH Wind Load Chart • 1.5 Gust Factor

Sign Centroid	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED					
	TYPE 7 2"14 ga.		TYPE 9 2½"14 ga.	TYPE 8 2¾"12 ga.	TYPE 8 2¾"12 ga.		TYPE 8 w/TYPE 9 insert 2½"12 ga. W 2¼"14 ga.			
	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post	
	SQUARE FOOTAGE				SQUARE FOOTAGE					
4'	13.50	27.00	19.25	30.00	60.00	90.00	48.25	95.50	142.75	
7'	11.60	23.20	16.50	25.75	51.50	77.25	41.25	84.50	126.75	
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00	
9'	9.00	18.00	12.85	20.00	40.00	60.00	33.85	65.70	98.55	
10'	8.10	16.20	11.55	18.00	36.00	54.00	30.55	59.10	88.65	
11'	7.40	14.80	10.50	16.40	32.80	49.20	28.00	53.80	80.70	
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.85	48.30	72.45	
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25	
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45	
15'	5.00	10.00	6.45	10.10	20.20	30.30	18.55	33.10	48.65	
16'	4.70	9.40	6.05	9.45	18.90	28.35	17.50	31.20	45.90	
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	26.20	43.80	
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40	
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15	
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20	

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN PLUS HALF THE HEIGHT OF SIGN.
EXAMPLE: 24" x 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) PLUS 7 FT. = 9 CENTROID.

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

- TYPE 9 INSERT SHALL BE A CONTINOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

TYPE 7, 8, AND 9
SQUARE TUBE POST
INSTALLATION DETAIL

NO SCALE — JULY 2002

T-3A

GEORGIA REGISTERED No. 29511 PROFESSIONAL ENGINEER CHARLES F. HARDIN, JR.

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PUBLIC WORKS
BURNETT FERRY ROAD

MISCELLANEOUS DETAILS

DRAWING No.
55-06