

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. # 0010448 **OFFICE** Design Policy & Support
Catoosa, Dade, & Walker Counties
GDOT District 6 - Cartersville **DATE** November 26, 2013
Traffic Signal and Pedestrian Improvements
On SR 1, SR 2, SR 136, & SR 146

Kim Pullyss
FROM *for* Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Bobby Hilliard, Program Control Administrator
Genetha Rice-Singleton, State Program Delivery Engineer
Glenn Bowman, State Environmental Administrator
Cindy VanDyke, State Transportation Planning Administrator
Kathy Zahul, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Charles "Chuck" Hasty, State Materials Engineer
Mike Bolden, State Utilities Engineer
Jeff Fletcher, Statewide Location Bureau Chief
Emmanuella Myrthil, State Safety Program Coordinator
DeWayne Comer, District Engineer
Mike Haithcock, District Preconstruction Engineer
Kerry Bonner, District Utilities Engineer
Perry Black, Project Manager
BOARD MEMBER - 14th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
LIMITED SCOPE PROJECT CONCEPT REPORT**

Project Type: <u>Signal Upgrade</u>	P.I. Number: <u>0010448</u>
GDOT District: <u>6</u>	County: <u>Catoosa, Dade & Walker</u>
Federal Route Number: <u>11, 27, 41, 76</u>	State Route Number: <u>1, 2, 3, 58, 136, 146, 151</u>

The project consists of traffic signal and pedestrian facility upgrades at 12 locations in Catoosa, Dade and Walker Counties.

Submitted for approval:

B. Chen ICA Engineering 10/10/2013
 Consultant Designer & Firm DATE

Randy Black AVS 10/17/2013
 GDOT Project Manager DATE

Bennett Rice - GDOT 10/21/2013
 State Program Delivery Engineer DATE

Recommendation for approval:

* Glenn Bowman / KLP 10-25-13
 State Environmental Administrator DATE

* Kathy Zahul / KLP 10-28-13
 State Traffic Engineer DATE

* Recommendation on file

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

Cynthia D. Kuyper 10-28-13
 State Transportation Planning Administrator DATE

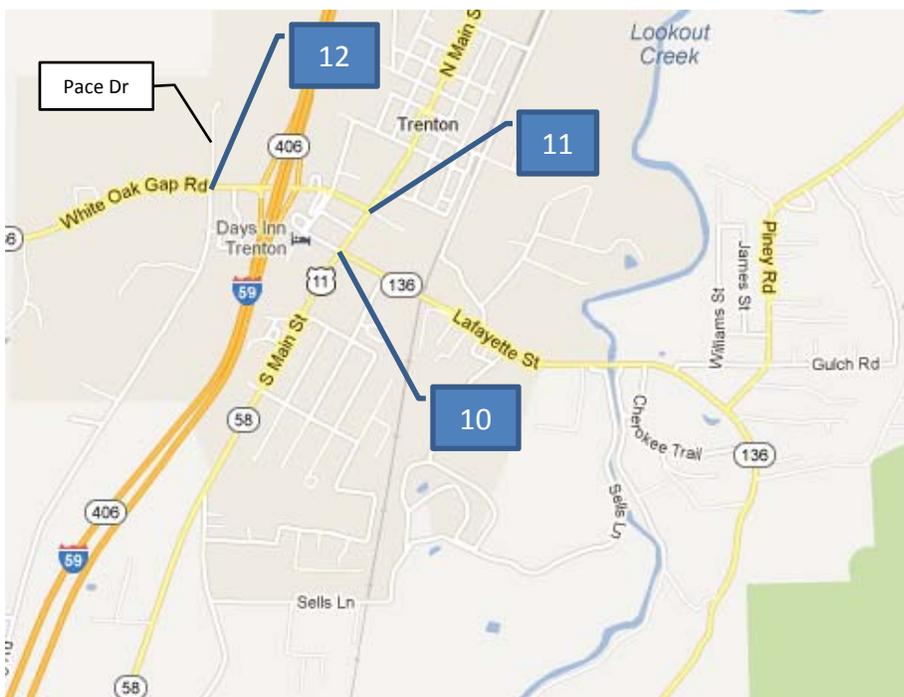
Approval:

Concur: [Signature] 11/15/2013
 GDOT Director of Engineering DATE

Approve: [Signature] 11/21/13
 GDOT Chief Engineer DATE

PROJECT LOCATION





PLANNING & BACKGROUND DATA

Project Justification Statement:

There are twelve (12) signalized intersection in Catoosa, Dade and Walker Counties in need of improvements to address compliance with current GDOT standards, the Manual of Uniform Traffic Control Devices (MUTCD) and the requirements of the American Disabilities Act (ADA). Specific improvements will bring the intersections into compliance with the current design standards and will include: modernization of traffic signal equipment, including updated controllers, LED signal heads and pedestrian signals; and improved pedestrian accommodations, including new countdown pedestrian signal, ADA compliant wheelchair ramps and new crosswalks.

Description of the proposed project:

The proposed project is located in Catoosa (7), Dade (3) and Walker (2) Counties, in the Cities of Fort Olgethorpe (3), Ringgold (4), Rossville (2), Trenton (3). The project will consist of traffic signalization upgrades, including LED vehicular signals, countdown pedestrian signals, ADA wheelchair ramps and crosswalk striping at all 12 locations. The project locations are:

A. Catoosa:

1. SR 2 @ CS 511/Cleveland Street (Ringgold)
2. SR 2 @ SR 151/Tennessee Street (Ringgold)
3. SR 2 @ CS 500/Sparks Street (Ringgold)
4. SR 2 @ CR 166/Smitherman Road (Ringgold)
5. SR 146 @ CR 58/Cedar Lane (Fort Olgethorpe)
6. SR 146 @ Cross Street (Fort Olgethorpe)
7. SR 1 @ SR 146 (Fort Olgethorpe)

B. Walker:

8. SR 1 @ Oak Road. (Rossville)
9. SR 1 @ CS 677/Clark Street. (Rossville)

C. Dade:

10. SR 136/Lafayette Street @ SR 58. (Trenton)
11. SR 136/White Oak Gap Road @ SR 58 (Trenton)
12. SR 136 @ Pace Drive (Trenton)

Federal Oversight: Exempt State Funded Other

MPO: ~~Greater Dalton MPO~~ *RIP* MPO Project ID N/A

Chattanooga - Hamilton County / North GA TPO
Regional Commission: Northwest Georgia RC RC Project ID N/A

Congressional District(s): 14

Projected Traffic: ~~ADT or AADT~~ This project will not add capacity

Functional Classification (Mainline):

- SR 2 – Urban Minor Arterial
- SR 151 – Urban Minor Arterial
- SR 146 – Urban Minor Arterial
- SR 1 – Urban Principal Arterial
- SR 136 – Rural Minor Arterial
- SR 58 – Rural Minor Arterial
- CS 511 – Rural Local
- CS 500 – Rural Local
- CR 166 – Rural Local
- CR 58 – Rural Local
- Cross Street – Urban Minor Arterial
- Oak Road – Urban Collector Street
- CS 677 – Rural Local
- Pace Drive – Rural Local

Is this a 3R (Resurfacing, Restoration, & Rehabilitation) Project? No Yes

Will Context Sensitive Solutions procedures be utilized? No Yes

Intersection corners will be bulbed out to accommodate pedestrians in downtown Ringgold at Intersection #2.

DESIGN AND STRUCTURAL DATA –

Mainline Design Features: SR 2 @ Intersections 1, 2 & 3

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2	2	No Change
- Lane Width(s)	Varies	11'-12'	No Change
- Median Width & Type	None	None	None
- Border Area Width	Varies	10-'16'	Varies
- Sidewalks	Varies	5'	5'
- Auxiliary Lanes	Parking @ Tennessee St & Cleveland St	None	No Change
- Bike Lanes	At Sparks St	None	No Change
Posted Speed	25		No Change
Design Speed	Unknown	45	25
Design Vehicle	Unknown	BUS-40 or WB-40	BUS-40

Mainline Design Features: SR 2 @ Intersections 4

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	4	4	No Change
- Lane Width(s)	12'	11'-12'	No Change
- Median Width & Type	44' Depressed	24' Raised	No Change
- Outside Shoulder or Border Area Width	Varies	10-16'	16'
- Inside Shoulder Width	6'	None	No Change
- Sidewalks	None	5'	5'
- Auxiliary Lanes	None	None	No Change
- Bike Lanes	None	None	No Change
Posted Speed	55		No Change
Design Speed	Unknown	55	55
Design Vehicle	Unknown	BUS-40 or WB-40	BUS-40

Mainline Design Features: SR 146 @ Intersection 5 & 6

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2	2	2
- Lane Width(s)	12'	11'-12'	No Change
- Median Width & Type	None	None	None
- Outside Shoulder or Border Area Width	Varies	10'-16'	16'
- Sidewalks	None	5'	5'
- Auxiliary Lanes	None	None	No Change
- Bike Lanes	None	None	No Change
Posted Speed	35		No Change
Design Speed	Unknown	35	35
Design Vehicle	Unknown	BUS-40 or WB-40	BUS-40

Mainline Design Features: SR 1 @ Intersection 7, 8 & 9

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	4	4	4
- Lane Width(s)	12'	11'-12'	No Change
- Median Width & Type	14' Flush	14' Flush	No Change
- Border Area Width	Varies	10'-16'	16'
- Sidewalks	Varies	5'	5'
- Auxiliary Lanes	None	None	No Change
- Bike Lanes	None	None	No Change
Posted Speed	45		No Change
Design Speed	Unknown	45	45
Design Vehicle	Unknown	BUS-40 or WB-40	BUS-40

Mainline Design Features: SR 136 @ Intersection 10, 11 & 12

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	3	2	3
- Lane Width(s)	12'	11'-12'	No Change
- Median Width & Type	14' Flush	14' Flush	No Change
- Outside Shoulder or Border Area Width	Varies	10'	10'
- Sidewalks	Varies	None	5'
- Auxiliary Lanes	None	None	No Change
- Bike Lanes	None	None	No Change
Posted Speed	35		No Change
Design Speed	Unknown	45	35
Design Vehicle	Unknown	SU	SU

*According to current GDOT design policy if applicable

Major Structures: N/A

Major Interchanges/Intersections:

Catoosa County: SR 2 @ CS 511/Cleveland Street, SR 2 @ SR 151/Tennessee Street, SR 2 @ CS 500/Sparks Street, SR 2 @ CR 166/Smitherman Road, SR 146 @ CR 58/Cedar Lane, SR 146 @ Cross Street, SR 1 @ SR 146.

Walker County: SR 1 @ Oak Road, SR 1 @ CS 677/Clark Street.

Dade County: SR 136/Lafayette Street @ SR 58, SR 136/White Oak Gap Road @ SR 58, SR 136 @ Pace Drive

Utility Involvements:

Catoosa Utility District – Minor Impacts
 Dalton Utilities (Gas) – Minor Impacts
 Dalton Utilities (Water) – Minor Impacts
 Dalton Utilities (Sewer) – Minor Impacts
 Dalton Utilities (Electric) – \$100,000 Reimbursable
 Dalton Utilities (Telecom) – Minor Impacts
 Charter Communications – Minor Impacts
 Georgia Power – Dist. - \$95,000 Reimbursable

North Georgia EMC - \$200,000 Reimbursable
 Atlanta Gas Light Company – Minor Impacts
 Dade County Water - \$79,970 Non-Reimb
 City of Ringgold – Minor Impacts
 City of Fort Olgethorpe – Minor Impacts
 Tennessee American Water – Minor Impacts
 AT&T - \$42,000 Non-Reimbursable

Public Interest Determination Policy and Procedure recommended (Utilities)? No Yes

SUE Required: No Yes

Railroad Involvement: None

Complete Streets - Bicycle, Pedestrian, and/or Transit Warrants:

Warrants met: None Bicycle Pedestrian Transit

Right-of-Way:

Required Right-of-Way anticipated: No Yes Undetermined
Easements anticipated: None Temporary Permanent Utility Other

Anticipated number of impacted parcels: 27
Displacements anticipated: Total: 0
Businesses: 0
Residences: 0
Other: 0

Transportation Management Plan [TMP] Required:

No Yes
If Yes: Project classified as: Non-Significant Significant
TMP Components Anticipated: TTC TO PI

Design Exceptions to FHWA/AASHTO controlling criteria anticipated: None anticipated

Design Variances to GDOT Standard Criteria anticipated: None anticipated

ENVIRONMENTAL DATA

Anticipated Environmental Document:

GEPA: NEPA: CE PCE

Project Air Quality:

Is the project located in a PM 2.5 Non-attainment area? No Yes
Is the project located in an Ozone Non-attainment area? No Yes
Is a Carbon Monoxide hotspot analysis required? No Yes

MS4 Compliance – Is the project located in an MS4 area?

No Yes

Walker and Catoosa Counties are MS4 areas

Environmental Permits/Variations/Commitments/Coordination anticipated: SHPO Concurrence

NEPA/GEPA Comments & Information:

Ecology: No suitable habitat for protected species (including Indiana bat and Gray bat) observed at project intersections. At locations where streams are located, it does not appear the proposed improvements would require 404 CWA permit or Stream Buffer Variance.

History: A total of fifteen additional properties 50 years of age or older not identified in the DNR survey were identified within the proposed project's APE during the field survey. Eligibility determinations are pending GDOT review of survey report.

Archaeology: Survey underway and no effects to resources are anticipated given type of project and developed nature of most project intersections.

Air: Project located in non-attainment for PM_{2.5} and ozone. Full air assessment required; however, CO hot-spot analysis not anticipated.

Noise: Given project type, Type III Noise Screening anticipated.

PROJECT RESPONSIBILITIES

Project Activities:

Project Activity	Party Responsible for Performing Task(s)
Concept Development	ICA Engineering
Design	ICA Engineering
Right-of-Way Acquisition	GDOT
Utility Relocation	Utility Companies
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	N/A
Providing Detours	N/A
Environmental Studies, Documents, and Permits	ICA Engineering
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

Lighting required: No Yes

Other projects in the area:

0008993 – Ringgold downtown pedestrian safety enhancements – Catoosa County – 2013 Let
642240 – Widening of SR 3 from SR 151 NW to SR 146 – Catoosa County – On Hold
621530 – Widening of SR 151 from S of Rollins Ind. Park to SR 2/US 41 – Catoosa County – 2014 Let
M004621 – Resurfacing and Maintenance of SR 2 from Walker County Line to W of CR 167 – Catoosa
County
M004451 – Resurfacing of SR 146 from E of SR 1/US 27 to E of CR 56 – Catoosa County - 2013
642220 - Widening of SR 146 from SR 1/US 27 east to CR 553 – Catoosa County – Long Range

Other coordination to date: None

County: Catoosa, Dade & Walker

Project Cost Estimate and Funding Responsibilities:

	Breakdown of PE	ROW	Reimbursable Utility	CST*	Environmental Mitigation	Total Cost
By Whom	GDOT	GDOT	GDOT	ICA Engineering	Edwards Pitman	
\$ Amount	\$551,557.23	\$985,000	395,000	\$1,595,238.28	\$0	\$3,526,795.51
Date of Estimate	2011	8/23/2013	10/3/2013	10/30/2013	N/A	

*CST Cost includes: Construction, Engineering and Inspection, and Liquid AC Cost Adjustment.

ALTERNATIVES

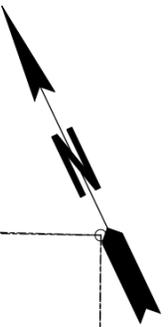
Preferred Alternative:			
Estimated Property Impacts:	27	Estimated Total Cost:	\$3,526,795.51
Estimated ROW Cost:	\$985,000	Estimated CST Time:	12 months
Rationale: This alternative meets the goal of the project which is to upgrade the existing signals and pedestrian facilities			

No-Build Alternative:			
Estimated Property Impacts:	0	Estimated Total Cost:	\$0
Estimated ROW Cost:	\$0	Estimated CST Time:	N/A
Rationale: This alternative does not meet the goal of the project which is to upgrade the existing signals and pedestrian facilities.			

Comments/additional information: None

Attachments:

1. Concept Layout
2. Cost Estimates
 - a. CES Output
 - b. Fuel & Asphalt Price Adjustment
 - c. R/W Cost Estimate
 - d. Utility Cost Estimate
3. Concept Team Meeting Minutes



NASHVILLE STREET (SR 2/US 41)
(RIGHT-OF-WAY VARIES)

CLEVELAND STREET
(AKA BRIDGE STREET)
(60' R/W)

CLEVELAND STREET
(AKA BRIDGE STREET)
(60' R/W)

EXIST R/W

EXIST R/W

EXIST R/W

EXIST R/W

REQ'D R/W

REQ'D R/W

PROPOSED
DRIVEWAY
(40')

45'

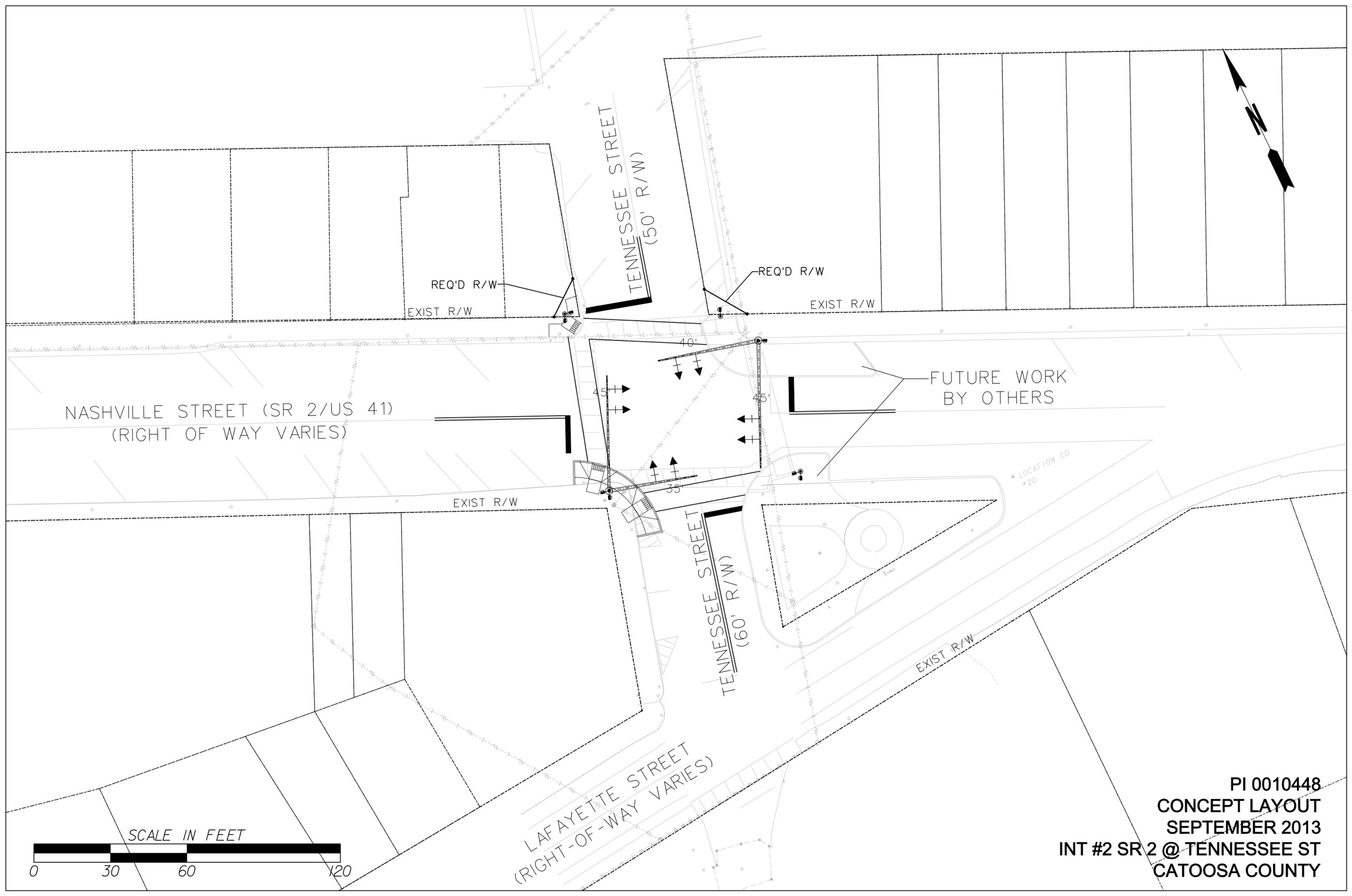
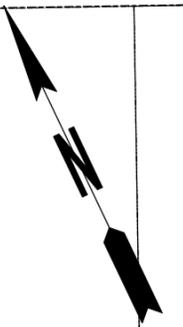
45'

35'

45'



PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #1 SR 2 @ CLEVELAND ST
CATOOSA COUNTY



NASHVILLE STREET (SR 2/US 41)
(RIGHT OF WAY VARIES)

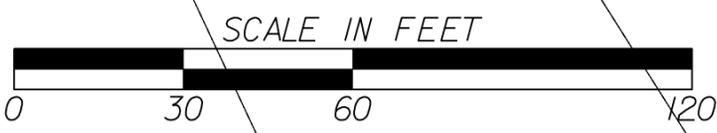
TENNESSEE STREET
(50' R/W)

TENNESSEE STREET
(60' R/W)

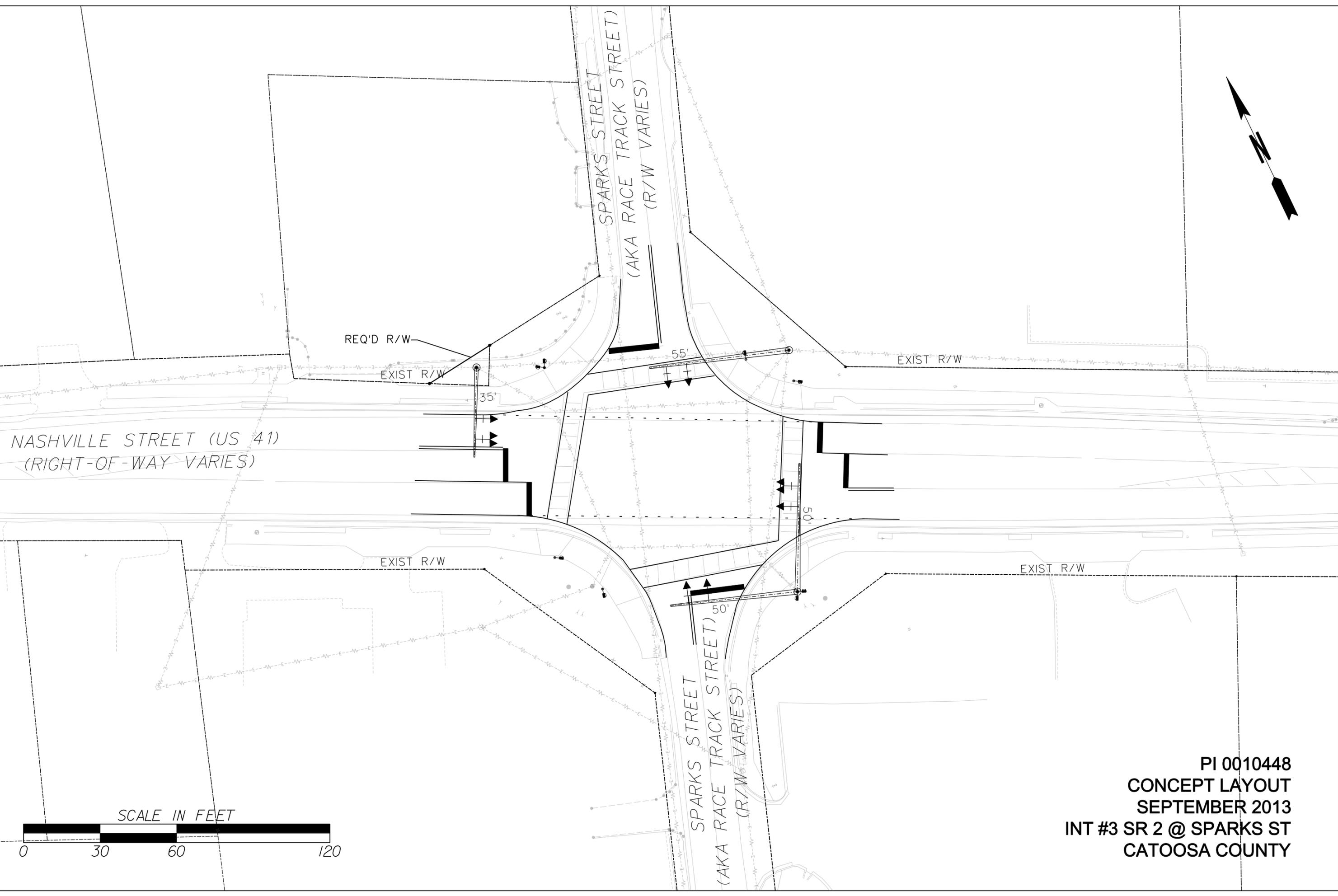
LAFAYETTE STREET
(RIGHT-OF-WAY VARIES)

FUTURE WORK
BY OTHERS

LOCATION CD
*20



PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #2 SR 2 @ TENNESSEE ST
CATOOSA COUNTY



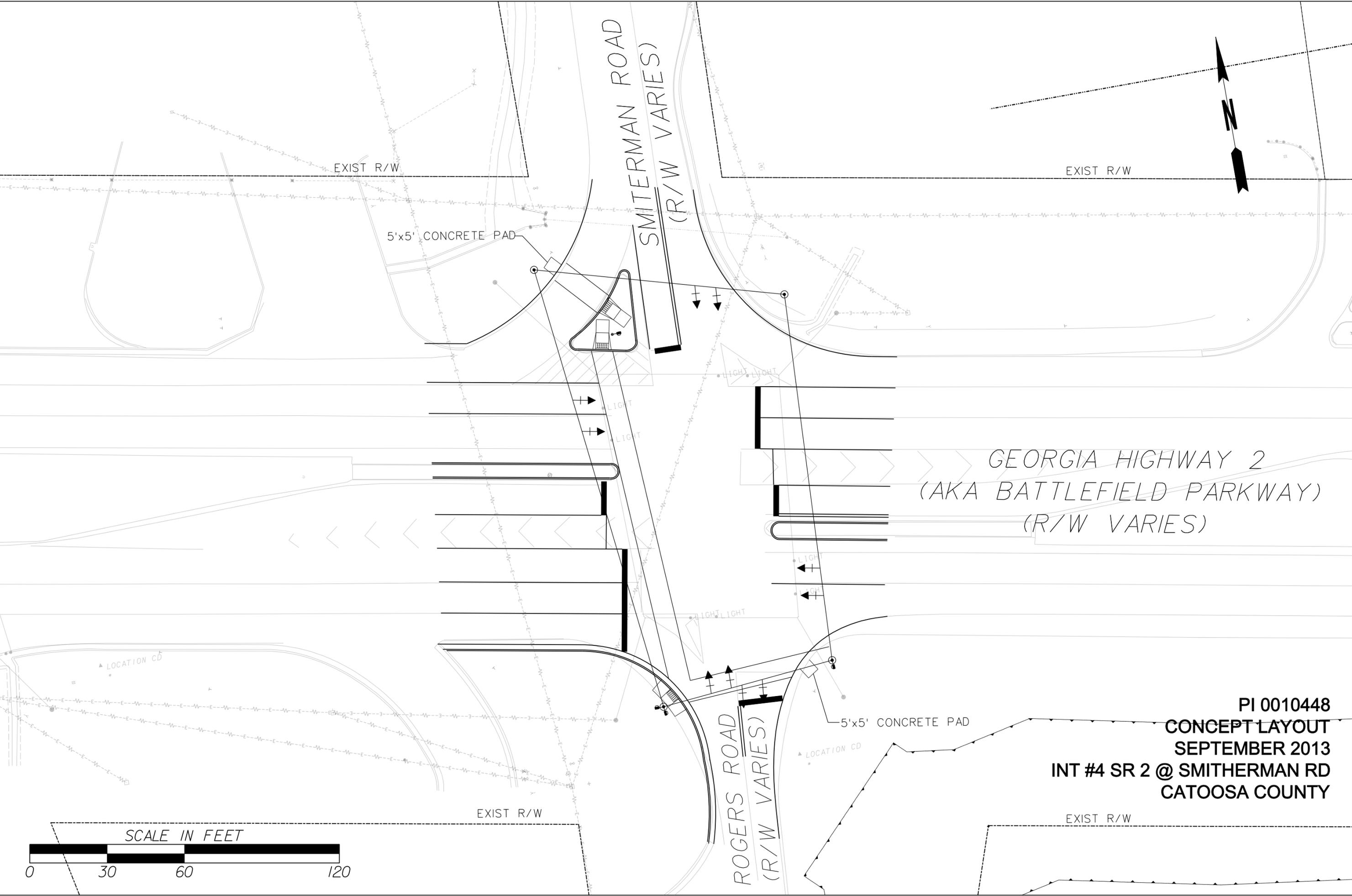
NASHVILLE STREET (US 41)
(RIGHT-OF-WAY VARIES)

SPARKS STREET
(AKA RACE TRACK STREET)
(R/W VARIES)

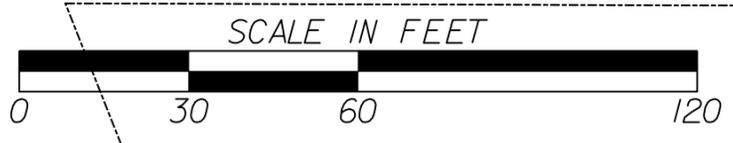
SPARKS STREET
(AKA RACE TRACK STREET)
(R/W VARIES)

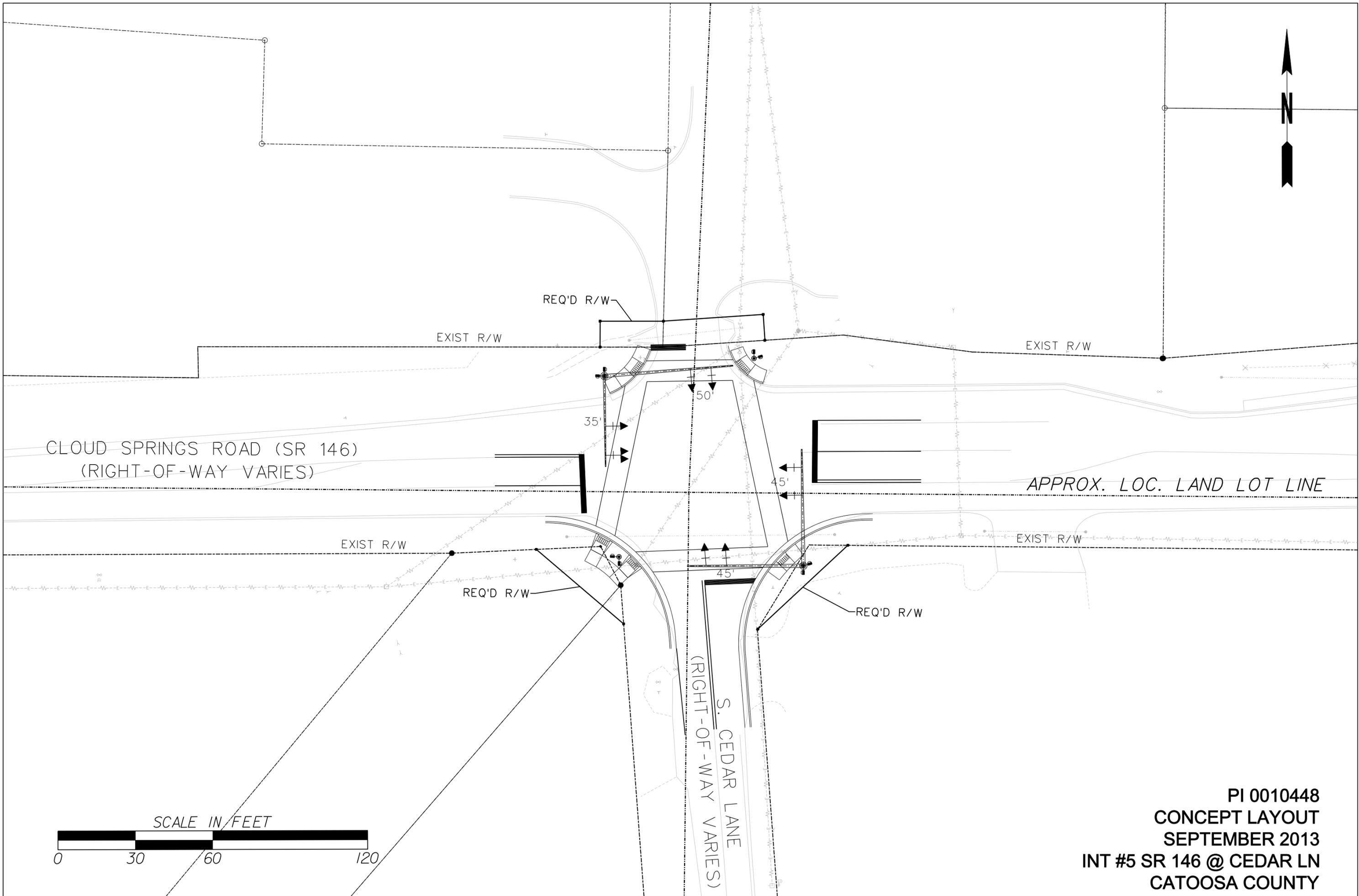


PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #3 SR 2 @ SPARKS ST
CATOOSA COUNTY

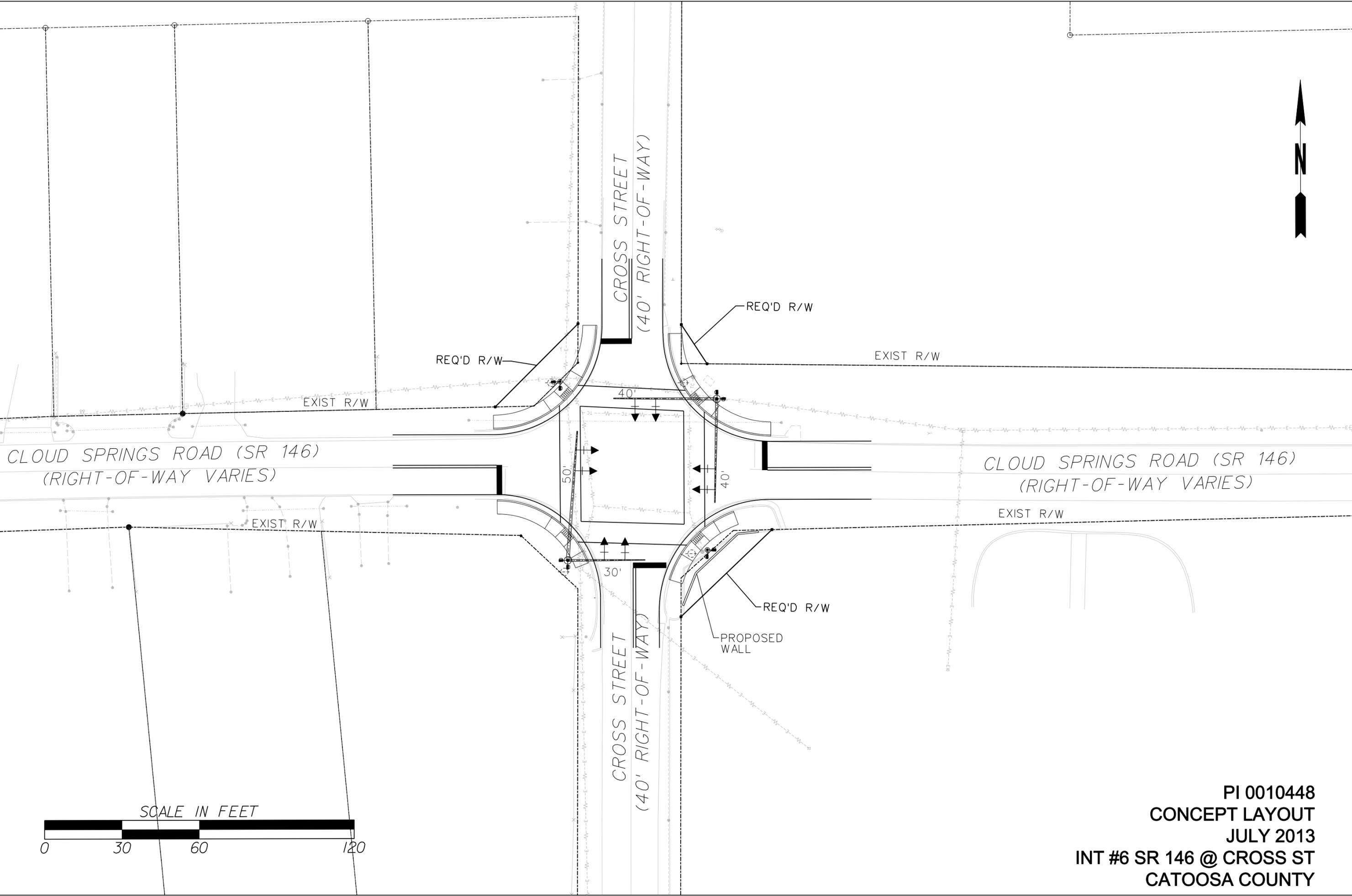


PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #4 SR 2 @ SMITHERMAN RD
CATOOSA COUNTY





PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #5 SR 146 @ CEDAR LN
CATOOSA COUNTY



CLOUD SPRINGS ROAD (SR 146)
(RIGHT-OF-WAY VARIES)

CLOUD SPRINGS ROAD (SR 146)
(RIGHT-OF-WAY VARIES)

CROSS STREET
(40' RIGHT-OF-WAY)

CROSS STREET
(40' RIGHT-OF-WAY)

REQ'D R/W

REQ'D R/W

EXIST R/W

EXIST R/W

EXIST R/W

REQ'D R/W

PROPOSED WALL

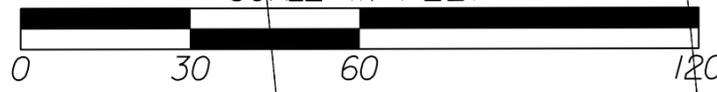
40'

40'

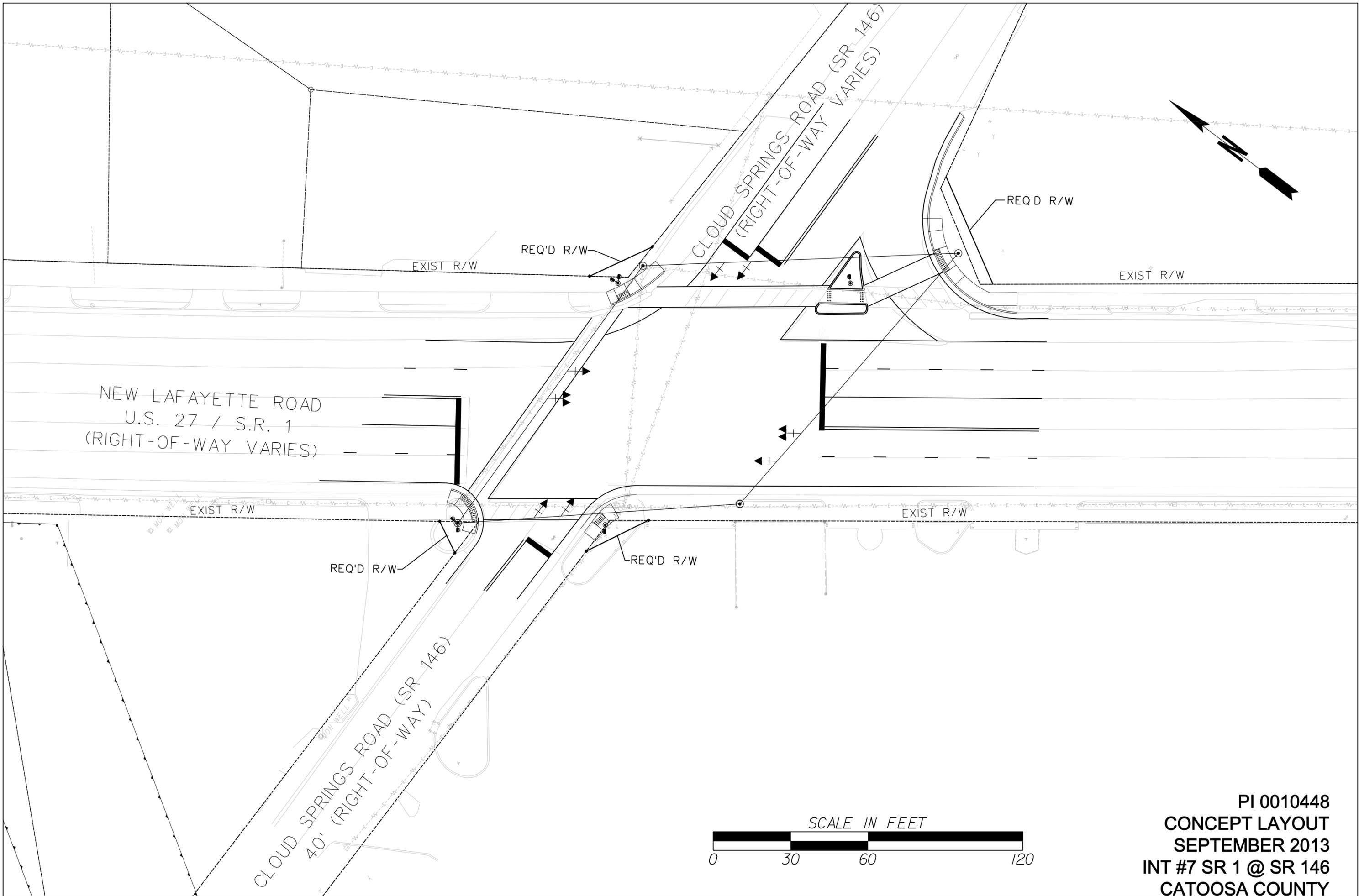
50'

30'

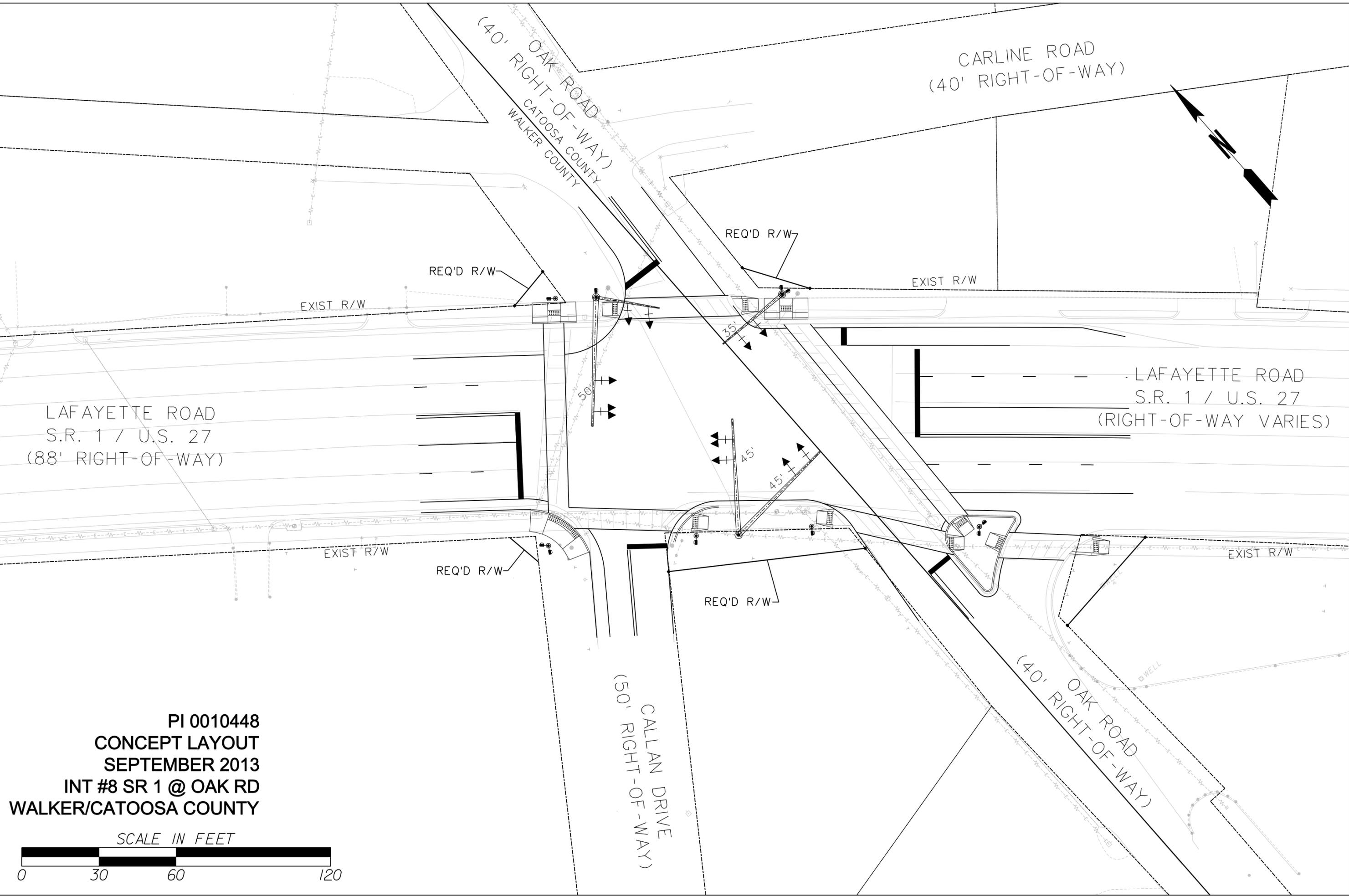
SCALE IN FEET



PI 0010448
CONCEPT LAYOUT
JULY 2013
INT #6 SR 146 @ CROSS ST
CATOOSA COUNTY



PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #7 SR 1 @ SR 146
CATOOSA COUNTY



OAK ROAD
(40' RIGHT-OF-WAY)
CATOOSA COUNTY
WALKER COUNTY

CARLINE ROAD
(40' RIGHT-OF-WAY)

LAFAYETTE ROAD
S.R. 1 / U.S. 27
(88' RIGHT-OF-WAY)

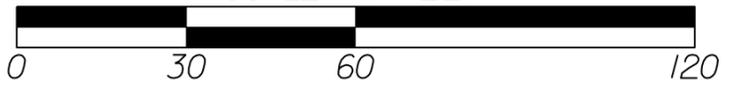
LAFAYETTE ROAD
S.R. 1 / U.S. 27
(RIGHT-OF-WAY VARIES)

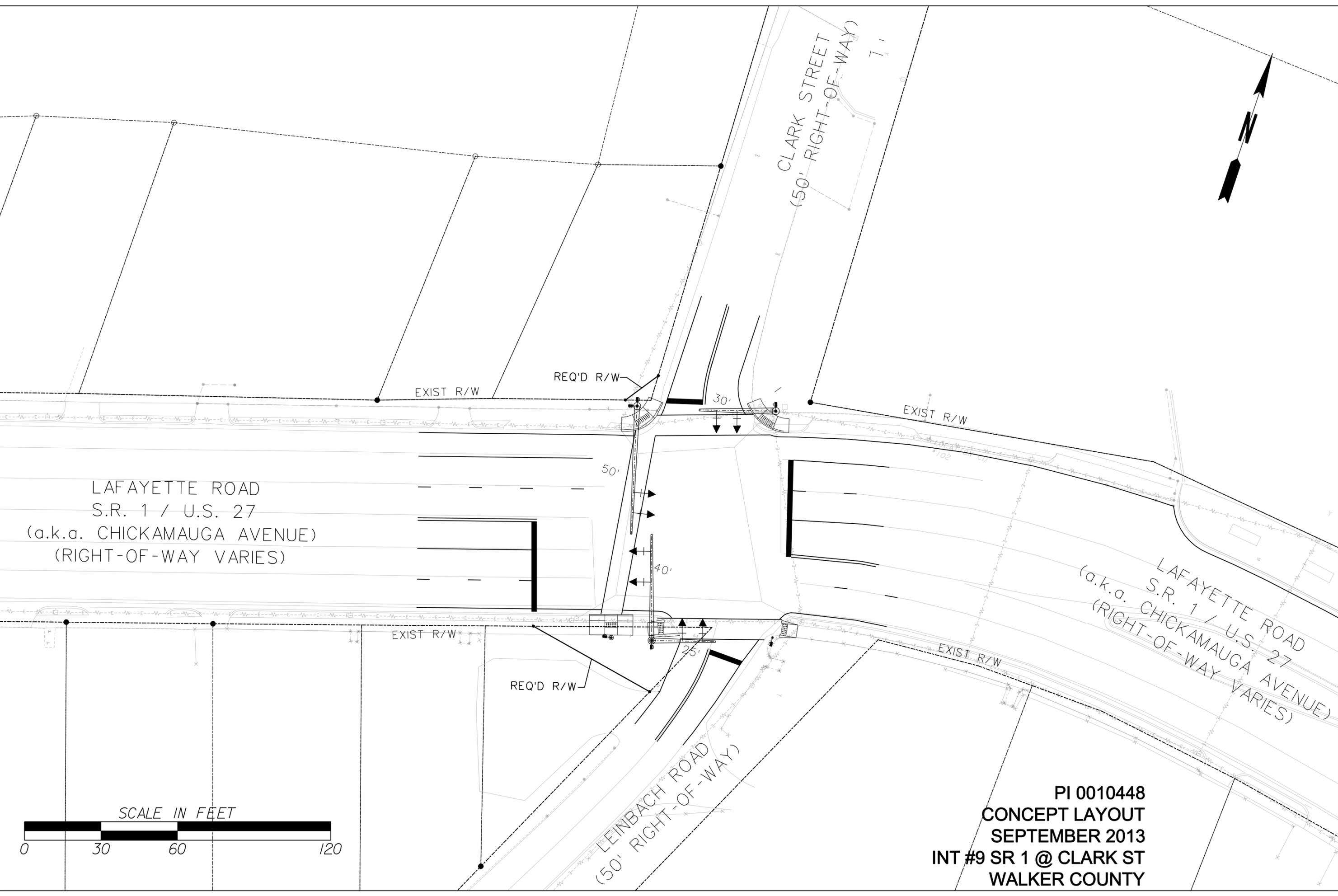
CALLAN DRIVE
(50' RIGHT-OF-WAY)

OAK ROAD
(40' RIGHT-OF-WAY)

PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #8 SR 1 @ OAK RD
WALKER/CATOOSA COUNTY

SCALE IN FEET





LAFAYETTE ROAD
S.R. 1 / U.S. 27
(a.k.a. CHICKAMAUGA AVENUE)
(RIGHT-OF-WAY VARIES)

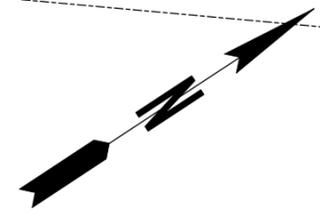
LAFAYETTE ROAD
S.R. 1 / U.S. 27
(a.k.a. CHICKAMAUGA AVENUE)
(RIGHT-OF-WAY VARIES)

CLARK STREET
(50' RIGHT-OF-WAY)

LEINBACH ROAD
(50' RIGHT-OF-WAY)



PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #9 SR 1 @ CLARK ST
WALKER COUNTY



15' ALLEY (CLOSED)
(f.k.a. REEVES AVENUE)

LAFAYETTE STREET
(RIGHT-OF-WAY)

EXIST R/W

EXIST R/W

MAIN STREET
U.S. HWY 11, MAIN STREET
(60' RIGHT-OF-WAY)

MAIN STREET
U.S. HWY 11, MAIN STREET
(60' RIGHT-OF-WAY)

EXIST R/W

EXIST R/W

REQ'D R/W

TRENTON-LAFAYETTE HIGHWAY
(RIGHT-OF-WAY)

50'

45'

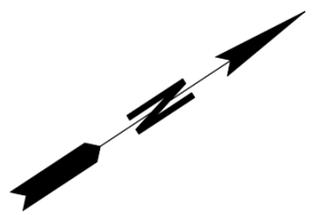
50'

40'

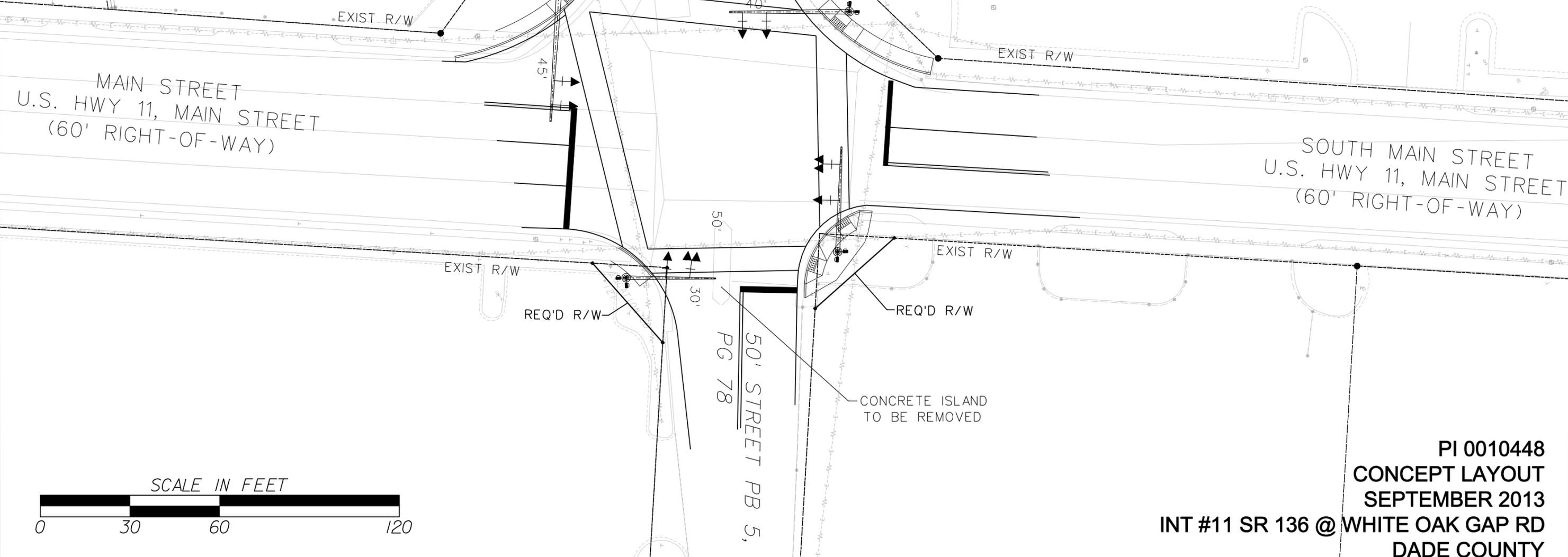
SCALE IN FEET



PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #10 SR 136 @ SR 58
DADE COUNTY



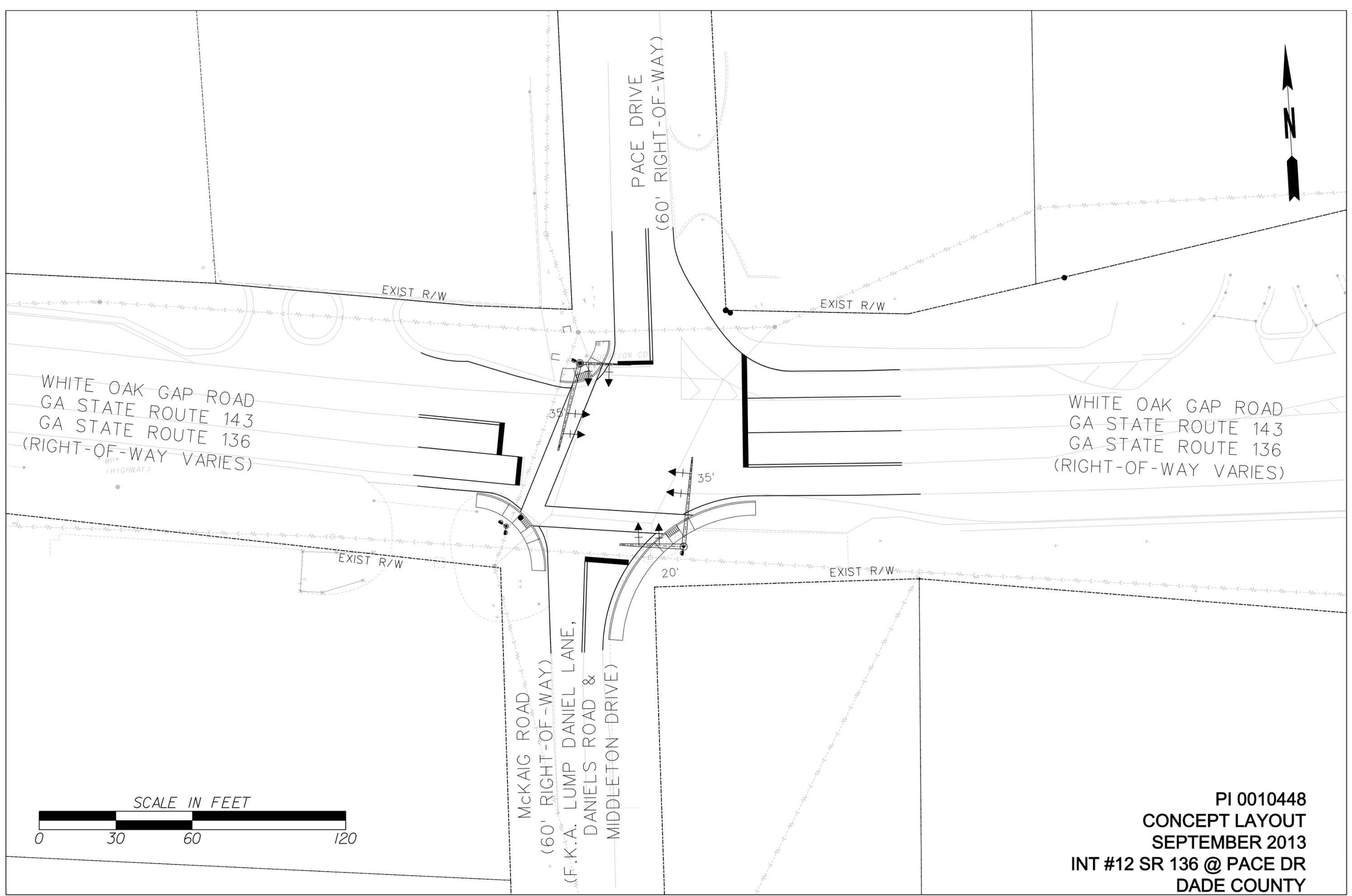
WHITE OAK GAP ROAD
GA STATE ROUTE 143
GA STATE ROUTE 136
GA STATE ROUTE 136
(60' RIGHT-OF-WAY)



SCALE IN FEET



PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #11 SR 136 @ WHITE OAK GAP RD
DADE COUNTY



EXIST R/W

EXIST R/W

EXIST R/W

EXIST R/W

WHITE OAK GAP ROAD
GA STATE ROUTE 143
GA STATE ROUTE 136
(RIGHT-OF-WAY VARIES)
MP+
(HIGHWAY)

WHITE OAK GAP ROAD
GA STATE ROUTE 143
GA STATE ROUTE 136
(RIGHT-OF-WAY VARIES)

PACE DRIVE
(60' RIGHT-OF-WAY)

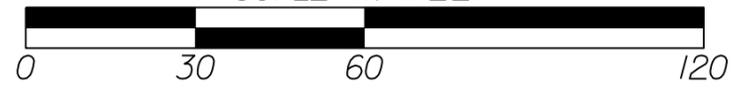
McKAIG ROAD
(60' RIGHT-OF-WAY)
(F.K.A. LUMP DANIEL LANE,
DANIELS ROAD &
MIDDLETON DRIVE)

35'

35'

20'

SCALE IN FEET



PI 0010448
CONCEPT LAYOUT
SEPTEMBER 2013
INT #12 SR 136 @ PACE DR
DADE COUNTY

JOB ESTIMATE REPORT

JOB NUMBER : 0010448 SPEC YEAR: 01
 DESCRIPTION: SIGNAL UPGRADES - DADE/WALKER/CATOOSA COUNTIES

ITEMS FOR JOB 0010448

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - 0010448	1.000	90000.00	90000.00
0010	210-0100		LS	GRADING COMPLETE - 0010448	1.000	150000.00	150000.00
0014	402-3130		TN	RECYL AC 12.5MM SP,GP2,BM&HL	7.000	71.39	499.76
0015	441-0108		SY	CONC SIDEWALK, 8 IN	813.000	61.80	50248.25
0020	441-6022		LF	CONC CURB & GUTTER, 6"X30"TP2	500.000	0.17	86.13
0049	500-9999		CY	CL B CONC,BASE OR PVMT WIDEN	13.000	172.26	2239.51
0050	700-6910		AC	PERMANENT GRASSING	1.000	875.41	875.42
0055	700-7000		TN	AGRICULTURAL LIME	2.000	10.39	20.79
0060	700-8000		TN	FERTILIZER MIXED GRADE	1.000	495.81	495.82
0065	700-8100		LB	FERTILIZER NITROGEN CONTENT	50.000	2.75	137.93
0070	716-2000		SY	EROSION CONTROL MATS, SLOPES	150.000	0.36	55.17
0100	163-0232		AC	TEMPORARY GRASSING	1.000	363.02	363.02
0105	163-0240		TN	MULCH	13.000	275.21	3577.74
0110	165-0010		LF	MAINT OF TEMP SILT FENCE, TP A	2000.000	0.70	1402.18
0115	165-0030		LF	MAINT OF TEMP SILT FENCE, TP C	600.000	0.86	520.57
0120	171-0010		LF	TEMPORARY SILT FENCE, TYPE A	4000.000	0.40	1620.68
0125	171-0030		LF	TEMPORARY SILT FENCE, TYPE C	1200.000	1.79	2159.51
0130	643-8200		LF	BARRIER FENCE (ORANGE), 4 FT	200.000	20.34	4068.30
0150	653-1501		LF	THERMO SOLID TRAF ST 5 IN, WHI	8815.000	0.53	4725.02
0155	653-1502		LF	THERMO SOLID TRAF ST, 5 IN YEL	4368.000	0.79	3471.29
0160	653-1704		LF	THERM SOLID TRAF STRIPE,24",WH	1138.000	0.28	323.67
0165	653-1804		LF	THERM SOLID TRAF STRIPE, 8",WH	9720.000	1.09	10608.80
0170	653-3501		GLF	THERMO SKIP TRAF ST, 5 IN, WHI	930.000	1.91	1777.09
0205	639-4004		EA	STRAIN POLE, TP IV	34.000	5910.46	200955.95
0210	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 1	1.000	46800.00	46800.00
0215	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 2	1.000	50900.00	50900.00
0225	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 4	1.000	44900.00	44900.00
0230	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 5	1.000	47900.00	47900.00
0235	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 6	1.000	51600.00	51600.00
0240	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 7	1.000	50400.00	50400.00
0245	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 8	1.000	57200.00	57200.00
0250	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 9	1.000	63100.00	63100.00
0255	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 10	1.000	51400.00	51400.00
0260	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 11	1.000	55800.00	55800.00
0265	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 12	1.000	55800.00	55800.00
0270	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 13	1.000	46800.00	46800.00
0274	682-6120		LF	CONDUIT, RIGID, 2 IN	3000.000	10.23	30710.70
0275	687-1000		LS	TRAFFIC SIGNAL TIMING - 0010448	1.000	28000.00	28000.00
0280	937-6050		EA	INT VIDEO DET SYS ASMBLY, TP A	53.000	5583.00	295899.00
0290	937-6150		EA	PROGRAMMING MONITOR, TP A	12.000	289.00	3468.00
0295	937-8030		LS	TESTING - INTERSECTION VIDEO DETECTION	1.000	2142.00	2142.00
0305	500-3201		CY	CL B CONC, RET WALL	4.000	430.90	1723.60
0310	682-9950		LF	DIRECTIONAL BORE - 2 INCH	2600.000	1.73	4498.00

DATE : 10/30/2013
PAGE : 2

STATE HIGHWAY AGENCY

JOB ESTIMATE REPORT

ITEM TOTAL	1519273.89
INFLATED ITEM TOTAL	1519273.90

TOTALS FOR JOB 0010448

ESTIMATED COST:	1519273.90
CONTINGENCY PERCENT (CEI) (5.0):	75963.70
ESTIMATED TOTAL:	1595237.60

KLP
EST

PROJ. NO.

CALL NO.

P.I. NO.

DATE

INDEX (TYPE)

REG. UNLEADED
DIESEL
LIQUID AC

DATE	INDEX
Oct-13	\$ 568.000
	\$ 3.869
	\$ 3.25

Link to Fuel and AC Index:

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

LIQUID AC ADJUSTMENTS

$PA = \left(\frac{APM - APL}{APL} \right) \times TMT \times APL$

Asphalt

Price Adjustment (PA)				0.68334	\$	0.68
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	5.21		
Monthly Asphalt Cement Price month project let (APL)			\$	3.25		
Total Monthly Tonnage of asphalt cement (TMT)				0.35		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm	7	5.0%	0.35
9.5 mm SP		5.0%	0
25 mm SP		5.0%	0
19 mm SP		5.0%	0
	7		0.35

BITUMINOUS TACK COAT

Price Adjustment (PA)			\$	-	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	5.21		
Monthly Asphalt Cement Price month project let (APL)			\$	3.25		
Total Monthly Tonnage of asphalt cement (TMT)				0		

Bitum Tack

Gals	gals/ton	tons
	232.8234	0

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 8/23/2013
Revised:

Project: Catoosa/Dade/Walker
County: Catoosa/Dade/Walker
PI: 0010448

Description: Signal Upgrades
Project Termini: Signal Upgrades

Parcels: 27

Existing ROW: Varies
Required ROW: Varies

Land and Improvements _____ \$186,750.00

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$100,000.00

Valuation Services _____ \$61,250.00

Legal Services _____ \$205,725.00

Relocation _____ \$54,000.00

Demolition _____ \$180,000.00

Administrative _____ \$296,500.00

TOTAL ESTIMATED COSTS _____ \$984,225.00

TOTAL ESTIMATED COSTS (ROUNDED) _____ \$985,000.00

Preparation Credits	Hours	Signature

Prepared By: Dashone Alexander CG#: 286999 08/23/2013

Approved By: Dashone Alexander CG#: 286999 08/23/2013

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 0010448 OFFICE Cartersville
Traffic Signal Upgrades
Catoosa, Dade and Walker DATE October 3, 2013

FROM  Kerry D. Bonner
District Utilities Engineer

TO Genetha Rice-Singleton, Office of Program Delivery
ATTN Perry Black, Project Manager

SUBJECT PRELIMINARY UTILITY COST ESTIMATE

As requested by your office, we are furnishing you with a Preliminary Utility Cost estimates for each utility with facilities potentially located within the project limits.

FACILITY OWNER	NON- REIMBURSABLE	REIMBURSABLE	
Catoosa Utility District	\$ 10,000.00		
Dalton Utilities (Gas)	\$ 10,000.00		
Dalton Utilities (Water)	\$ 10,000.00		
Dalton Utilities (Sewer)	\$ 10,000.00		
Dalton Utilities (Electrical)		\$ 100,000.00	
Dalton Utilities (Telcom)	\$ 10,000.00		
Charter Communications	\$ 10,000.00		
Georgia Power – Dist.		\$ 95,000.00	
North Georgia EMC		\$ 200,000.00	
Atlanta Gas Light Company	\$ 10,000.00		
Dade County Water	\$ 79,970.00		
City of Ringgold	\$ 10,000.00		
City of Fort Oglethorpe	\$ 10,000.00		
Tennessee American Water	\$ 10,000.00		
AT&T	\$ 42,000.00		
Totals	\$221,970.00	\$ 395,000.00	\$

Total Updated Preliminary Utility Cost Estimate \$ 616,970.00

If you have any questions, please contact Jennifer Deems at 678-721-5323.

KDB/jd

C: Mike Bolden, State Utilities Engineer (via e-mail)
File/Estimating Book

CONCEPT TEAM MEETING MINUTES
P.I. No. 0010448

MEETING

DATE: September 18, 2013 @ 10:00 am

MEETING

LOCATION: Conference Room, GDOT Cartersville District Office

RE: PI 0010448 Signal Upgrades – Catoosa, Dade and Walker Counties

TO: Distribution List, See Attached

Introduction:

Ben Clopper (ICA) opened the meeting with a brief description of the project and introductions.

Project Identification:

The purpose of the project is to upgrade 13 traffic signals in Catoosa, Dade and Walker Counties to current MUTCD and ADA standards.

Project Schedule:

The project is currently behind schedule, but can be recovered. Concept approval (Late) is scheduled for 9/26/13. Environmental Approval is scheduled for 7/29/14. PFPR is scheduled for 9/10/14. R/W Authorization is 12/30/14. FFPR is 6/8/15 and Letting is scheduled for January 2016. It is felt the project should be able to maintain or accelerate this schedule.

There is a desire by Traffic Operations to accelerate the project schedule to obtain R/W Authorization by 6/30/14, the end of FY 14. The project team will work towards this goal, which should be attainable depending on possible historical impacts.

Project Issues:

1. Project Justification:

The project justification is included in the Draft Concept and is to upgrade the thirteen signals to current MUTCD and ADA standards.

2. Logical Termini:

N/A

3. Planning Concept/Conforming plan's project description:

The project conforms to the project description

4. Project Background:

The intersections were selected by the District Office based on available funding

5. Location of environmental resources
 - a. Wetlands, open waters, streams and buffers:

There are no anticipated impacts to ecological resources, there are streams located nearby some intersections, but not close to the construction limits.
 - b. Park Lands:

The small triangle property on the SE corner of Intersection #2 may be classified as a park, further discussion is included below specific to the intersection.
 - c. Historic Properties, potential archaeological sites:

Several historic properties have been identified:
Ringgold Historic District is listed on the National Registry. Intersections 1, 2 and maybe 4 are located within the district
The Cloud Springs Baptist Church (Intersection 7) has been determined to be eligible as a result of survey work conducted on GDOT Project PI 642220
 - d. Cemeteries:

No cemeteries have been identified
 - e. Location of potential Hazardous Waste Sites:

None are known
 - f. Underground storage tank sites:

Several gas stations exist in the project corridor
 - g. Threatened and Endangered Species:

There are no observed habitats for T&E species.
6. Public Involvement:

No Public Meetings are planned for this project
7. Alternatives considered and rejected to date sufficient for inclusion into the environmental document:

The No-Build alternative was considered in addition to the proposed Build alternative. The No-Build does not meet the project goals and was rejected.
8. Design criteria proposed
The existing design criteria will not be changed except to upgrade the pedestrian facilities to current ADA standards.
9. Horizontal and vertical alignments criteria
No changes will be made to the horizontal or vertical alignments.
10. Typical Sections
N/A
11. VE Study results or recommendations
N/A
12. IMR or IJR requirements
N/A
13. Access Control
No changes to access control are planned. At Intersection 1 a driveway will need to be modified, it is currently open access across the entire frontage
14. Intersection Control additions or modifications that require permitting
No changes to existing Intersection Control are planned

15. Practical Alternatives Review (PAR)
N/A
16. Type of environmental document anticipated
Categorical Exclusion
17. Environmental permits/studies required
SHPO Coordination for History
18. Project Framework Agreement
N/A
19. Right-of-Way requirements/estimate including easements
 - a. Potential number of parcels
27
 - b. Number of relocations
None
 - c. Estimated right-of-way cost
\$985,000
 - d. Who will be responsible for purchasing right-of-way
GDOT
20. Preliminary bridge assessments and structural needs including retaining and noise walls
N/A
21. Accident history
N/A
22. Potential soil conditions along the project
N/A
23. Construction limits
None determined yet
24. Maintenance of traffic
Not anticipated to be an issue for a project of this type. Michael Haithcock (D6 Pre-Con Eng) suggested restricted work hours during construction limited to off-peak times. This will be included in the Special Provisions for PFPR.
25. Maintenance problems existing along the project
No areas have been identified
26. Preliminary capacity analysis for the "Build Alternative" and "No-Build Alternative"
N/A
27. Potential improvements recommended for intersections along project
Improvements are noted on concept layouts
28. Constructability of proposed project
N/A
29. Workzone safety and mobility requirements
N/A
30. Preliminary construction cost estimates
Included as Attachment 2a
Construction - \$1,920,307.02
Utility – TBD
R/W – \$985,000

- Traffic Operations suggested that 687-1000 – Traffic Signal Timing could be significantly lower, about \$500 per intersection for database conversions and \$2500 to \$3000 for intersections that need to be coordinated with other nearby intersections.
 - 937-8030 – Training can be removed from the cost estimate.
 - Steel Strain Poles should be changed to Concrete Strain Poles.
31. Project assignments
 Design – ICA Engineering
 Permitting – ICA Engineering (Edwards Pitman)
 R/W Acquisition – GDOT
 Construction – GDOT
32. Project schedule
 This topic was previously covered at the beginning of the meeting
33. ITS Concept of Operations
 N/A
34. Maintenance issues with the ITS system
 N/A
35. Name, size and location of utilities along the project (including utility cost estimate)
 To be determined based once Utility Cost Estimate is completed
36. Public Interest Determination findings
 Not required
37. SUE status
 Perry Black indicated that SUE will be done for this project, the Concept Report will be updated to reflect this.
38. Proximity and probable impacts to railroad and railroad right-of-way
 N/A
39. Proximity to airports
 N/A
40. Other Nearby Projects
- PI 621530 will upgrade Intersection #3 and is scheduled for letting in 2014. This intersection will be removed from this project.
 - PI 0008993 is a streetscape project in downtown Ringgold and is scheduled for letting in 12/13. It will be added to the list of nearby projects, and ICA will request the plans from the GDOT PM, Peter Emmanuel.
41. General Discussion
 Mike Haithcock asked if the design team was looking at LOS for the intersections because the public often sees new signals but traffic conditions may not be improved. Ben Clopper responded that this was no within the scope of the project.

Review of Concept Layouts:

Following the review of the concept report the individual layouts were reviewed by the group. Comments were offered as outlined below:

General Comments:

- The signals will generally be designed with mast arms
- Video detection will be used at each intersection, loops will be used at the set backs
- The strain poles and mast arms in the historic district can be painted green or black. The local government would be responsible for any additional costs beyond this.
- By the time this project is let it is expected GDOT will be utilizing 4-head signals with flashing yellow arrows for left turn lanes instead of "doghouse" style 5-head signals. This is not official policy yet but will be implemented by the design team. This will require the extension of some of the mast arms and may shift some to span wire configurations.

Intersection #1

- Need to show ped buttons in the SE corner, it may be necessary to have two buttons based on the spacing of the ramps
- The driveway in the NE corner will be reduced in width to accommodate the proposed curb and gutter to the radius return. This will likely reduce the available parking by 2-3 spaces.

Intersection #2

- The property on the SE corner may need to be avoided if it is a park. Impacts to it can be reduced by increasing the width of the bump outs further into the existing pavement and reducing the radius on the corner as there should be very few right turning vehicles at this location.
- The streetscape plans at this intersection will be obtained from Peter Emmanuel (GDOT PM)

Intersection #3

- This intersection will be removed from the project since it is part of another project.

Intersection #4

- Ped poles need to be shown

Intersection #5

- At the site visit it was suggested that the strain pole in the NW island should be moved to the shoulder
- No pedestrian access is provided to the NE corner because of the steep drop off.

Intersection #6

- No comments

Intersection #7

- It was suggested that the mast arm in the SE corner be moved the NE corner to reduce impacts to the church property. Pedestrian access could still be provided with a ramp and maybe a small wall.

- The RW on the NE quadrant should be verified based on the field location of RW monuments.

Intersection #8

- It was discussed in the meeting that this intersection may be removed from the project and the intersection changed to a safety project because of the skew and site distance. Based on the observations at the field visit this intersection will remain a part of this project.
- The mast arm in the SE corner needs to be checked for length.
- Pedestrian access is not provided across the east leg due to the crest curve to the east and the configuration would push it too far away from the right turning vehicles from the side road.
- This intersection will likely require a span wire configuration.
- The curb and gutter on the NE corner will be extended to the driveway

Intersection #9

- The striping on the North side will be straightened out to align with the signal heads
- The location of the signal heads relative to the lanes will be verified

Intersection #10

- Upgrading this intersection is very important to the District Signal Engineer, it has been needed for a while, but has never stayed in a project
- Suggested moving the mast arm from the SE corner to the SW corner. The strain pole in the SW corner can be shifted east and the stop bar for east bound traffic moved back.

Intersection #11

- It was suggested a tighter radius be used in the lower right corner and the striped island at this corner should be removed and the stop bar extended across the right turn lane.

Intersection #12

- The island in the grocery store entrance driveway should be completely removed.

Intersection #13

- No pedestrian access is provided to the NE corner because of the shoulder drop off.
- The painted island in the NE corner should be removed and stop bar extended across the right turn lane.

Attendees

See attached Sign in Sheet

CONCEPT MEETING- PI#0010448

Catoosa, Dade, Walker Counties

September 18, 2013

NAME	TITLE	COUNTY	PHONE/EMAIL
Russ Daner	NEPA Planner	Edwards-Pitman Env	770 333 9484 r.daner@edwards-pitman.com
Chase Whitfield	PROJECT ENGINEER	ICA ENGINEERING	770-428-0157 cwhitfield@icaeng.com
Alan Davis	State Signal Eng	GDOT	404 635 2832 aladavis@dot.ga.gov
Justin Hatch	Traffic Eng	GDOT	404 635 jhatch@dot.ga.gov
Troy Gallaway	Traffic Eng	GDOT	404-636-2841 tgallaway@dot.ga.gov
Chad Wilkie	DSE	GDOT	678-721-5289 cwilkie@dot.ga.gov
Ben Clopper	Project Manager	ICA Engineering	770 428 0157 bclopper@icaeng.com
TYLER LUMSDEN	ESTIMATOR - ENG. SERV	GDOT	770-630-2582 tlumsden@dot.ga.gov
Michael Hawthcock	DC ADE	GDOT	678-227-2454 mhawthcock@dot.ga.gov
John "Casey" Glen	Senior Ecologist	Edwards-Pitman Envir.	770-333-9484 cglen@edwards-pitman.com
Chevie Marsh	DPPE GDOT	678-721-5257 →	cmarsh@dot.ga.gov
PERRY BLACK	GDOT-PROS. MGR	GDOT	404-631-1224 pblack@dot.ga.gov