

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. # 0011672 **OFFICE** Design Policy & Support
Jackson County
GDOT District 1 - Gainesville **DATE** December 26, 2013
Signal & Pedestrian Upgrades in Jackson Co.



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
Ben Rabun, State Bridge Engineer
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
Bayne Smith, District Engineer
Brent Cook, District Preconstruction Engineer
Neil Kantner, District Utilities Engineer
Davida White, Project Manager
BOARD MEMBER - 9th Congressional District

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

Project Type: <u>Signal Upgrade</u>	P.I. Number: <u>0011672</u>
GDOT District: <u>1</u>	County: <u>Jackson</u>
Federal Route Number: <u>85, 129</u>	State Route Number: <u>11, 11 Conn, 15, 15 Alt, 53, 98</u>
Project Number: _____	None

The project consists of 8 traffic signal and pedestrian facility upgrades in Jackson County.

Submitted for approval:

<u><i>[Signature]</i></u> ICA Engineering, Inc.	<u>11/13/2013</u> DATE
<u><i>[Signature]</i></u> Consultant Designer & Firm	<u>11/14/2013</u> DATE
<u><i>[Signature]</i></u> State Program Delivery Engineer	<u>11/13/2013</u> DATE
<u><i>[Signature]</i></u> GDOT Project Manager	
<i>* Recommendation on file</i>	
Recommendation for approval:	
<i>* Glenn Bowman</i>	<u>11-20-2013</u> DATE
<u>State Environmental Administrator</u>	
<u>State Traffic Engineer</u>	<u>DATE</u>

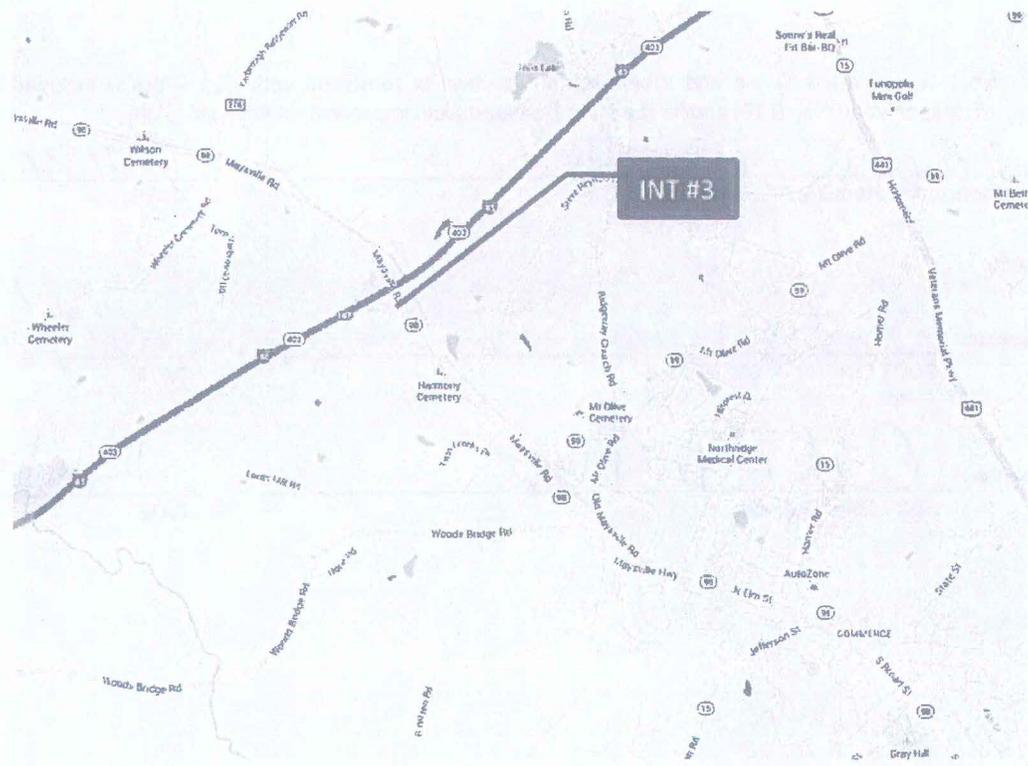
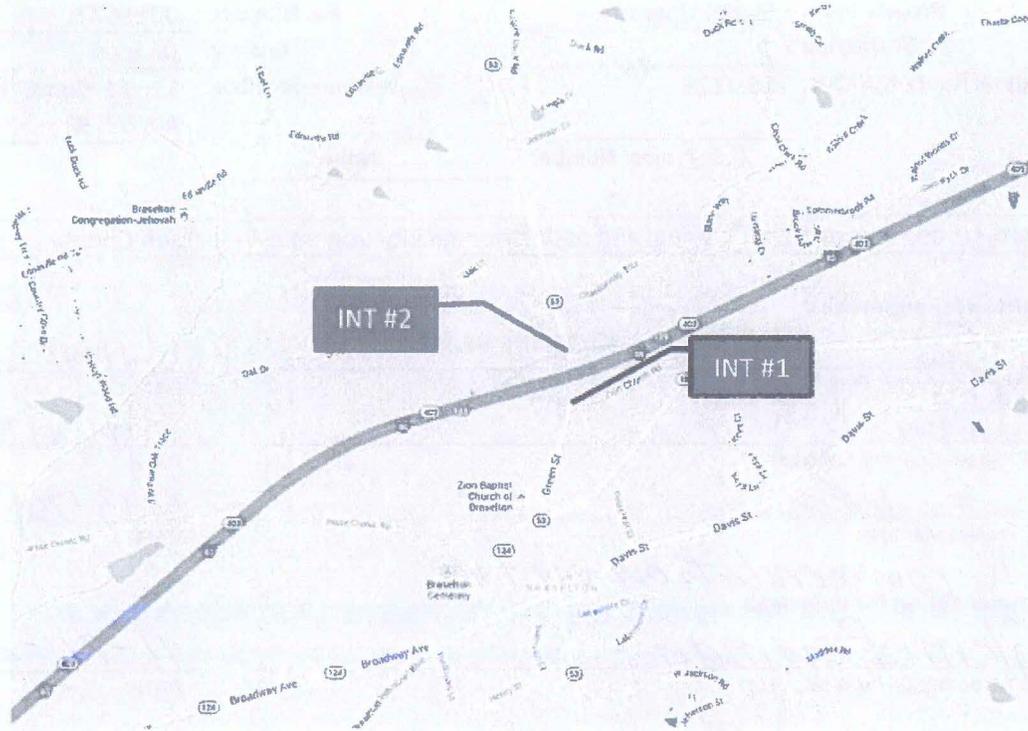
The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

<u><i>[Signature]</i></u> State Transportation Planning Administrator	<u>11-21-13</u> DATE
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Approval:

Concur: <u><i>[Signature]</i></u> GDOT Director of Engineering	<u>12/17/2013</u> DATE
Approve: <u><i>[Signature]</i></u> GDOT Chief Engineer	<u>12/19/13</u> DATE

PROJECT LOCATION



PLANNING & BACKGROUND DATA

Project Justification Statement:

There are eight (8) signalized intersection in Jackson County 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.

Existing conditions:

SR 53 is a two lane road with left and right turn lanes at intersections with rural shoulders and no existing sidewalks. There is an existing bridge over I-85 between the two ramp termini

SR 98 is a two lane road with left and right turn lanes at intersections and major driveways. Some sections have rural shoulders and some have curb and gutter but there is no existing sidewalk. There is a bridge over I-85 to the north of the intersection with the I-85 NB ramps.

SR 11 (I-85 Ramps) is a four lane road with a raised median (concrete or grass) and left and right turn lanes at intersections and major driveways. The shoulders include curb and gutter but the only existing sidewalk is on the bridge with separates the two ramp termini.

SR 11 (other locations) is a four lane road with a depressed grass median and left turn lanes at all intersections and right turn lanes at all intersections except SR 11 Connector NB. The road has rural shoulders and no sidewalk.

Other projects in the area:

0008434 – SR 53 from I-85 to CR 167/Tapp Wood Road – Long Range
110620 – Widening & reconstruction of I-85 from SR 211 to SR 53 – Construction 2018
110630 – Widening & reconstruction of I-85 from SR 53 to SR 11/US 129 – Construction 2018
110640 – Widening & reconstruction of I-85 from SR 11 to North of SR 82 – Construction 2020
110650 – Widening & reconstruction of I-85 from North of SR 82 to SR 98 – Long Range
110660 – Widening & reconstruction of I-85 from SR 82 to SR 15 in Banks County – Long Range
132860 – Widening & reconstruction of SR 53 from I-85 to SR 211 in Hall County – Pre-Construction
M004682 – Addition of right turn lane at US 129/SR11 and SR 11 BU – Status Unknown
M004774 – Resurfacing & Maintenance of SR 98 from I-85 to SR 15 Alt. – Pre-construction

Description of the proposed project:

The proposed project is located in Jackson County, in the Cities of Braselton (2), Pendergrass (3), Jefferson (1), Arcade (1), and Commerce (1). The project will consist of traffic signalization upgrades, including LED vehicular signals, countdown pedestrian signals, ADA wheelchair ramps and crosswalk striping at all 8 locations. The project locations are:

1. SR 53 @ I-85 NB
2. SR 53 @ I-85 SB
3. SR 98 @ I-85 NB
4. SR 11 @ Wayne Poultry Rd
5. SR 11 @ SR 11 Conn.
6. SR 11 @ I-85 NB
7. SR 11 @ I-85 SB
8. SR 11 Conn. @ SR 15 Alt.

MPO: N/A

MPO Project ID

Regional Commission: Northeast Georgia RC

RC Project ID

Congressional District(s): 9

Federal Oversight: Exempt State Funded Other

Projected Traffic: ~~ADT or AADT~~

This project will not add capacity

Functional Classification (Mainline):

- SR 53 – Rural Minor Arterial
- SR 11 – Rural Principal Arterial, Rural Minor Arterial
- SR 98 – Rural Minor Arterial
- SR 11 Conn. – Rural Minor Arterial
- I-85 – Rural Interstate Principal Arterial
- Wayne Poultry Rd – Rural Major Collector
- SR 15 Alt. – Rural Minor Arterial

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

Warrants met: None Bicycle Pedestrian Transit

DESIGN AND STRUCTURAL

Description of Proposed Project:

The project consists of 8 traffic signal and pedestrian facility upgrades in Jackson County.

Major Structures: N/A

Mainline Design Features: SR 53 @ I-85 NB (Intersection 1), SR 53 @ I-85 SB (Intersection 2), SR 98 @ I-85 NB (Intersection 3)

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2	2	No Change
- 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	None	5'	5'
- Auxiliary Lanes	None	None	None
- Bike Lanes	None	None	None
Posted Speed	45		No Change
Design Speed	Unknown	45	45
Design Vehicle	Unknown	BUS-40 or WB-40	BUS-40

Mainline Design Features: SR 11 @ Wayne Poultry Rd (Intersection 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	44' Depressed	No Change
- Outside Shoulder or Border Area Width	Varies	10'	10'
- Sidewalks	None	5'	5'
- Auxiliary Lanes	None	None	None
- Bike Lanes	None	None	None
Posted Speed	45-55		No Change
Design Speed	Unknown	55	No Change
Design Vehicle	Unknown	WB-62 or WB-40	WB-40

Mainline Design Features: SR 11 @ SR 11 Conn. (Intersection 5), SR 11 Conn. @ SR 15 Alt. (Intersection 8)

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	44' Depressed	No Change
- Outside Shoulder or Border Area Width	Varies	10'	10'
- Sidewalks	None	5'	5'
- Auxiliary Lanes	None	None	None
- Bike Lanes	None	None	None
Posted Speed	45-55		No Change
Design Speed	Unknown	45	No Change
Design Vehicle	Unknown	BUS-40 or WB-40	BUS-40

Mainline Design Features: SR 11 @ I-85 NB (Intersection 6)

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	4	4	No Change
- Lane Width(s)	12'	11'-12'	No Change
- Median Width & Type	32' Depressed	32' Depressed	No Change
- Outside Shoulder or Border Area Width	Varies	10'-16'	16'
- Sidewalks	None	5'	5'
- Auxiliary Lanes	None	None	None
- Bike Lanes	None	None	None
Posted Speed	45		No Change
Design Speed	Unknown	45	45
Design Vehicle		BUS-40 or WB-40	BUS-40

Mainline Design Features: SR 11 @ I-85 SB (Intersection 7)

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	4	4	No Change
- Lane Width(s)	12'	11'-12'	No Change
- Median Width & Type	24' Raised	24' Raised	No Change
- Outside Shoulder or Border Area Width	Varies	10'-16'	16'
- Sidewalks	None	5'	5'
- Auxiliary Lanes	None	None	None
- Bike Lanes	None	None	None
Posted Speed	45-55		No Change
Design Speed	Unknown	55	No Change
Design Vehicle	Unknown	WB-62 or WB-40	WB-40

*According to current GDOT design policy if applicable

Major Interchanges/Intersections: SR 53 @ I-85 NB, SR 53 @ I-85 SB, SR 98 @ I-85 NB, SR 11 @ Wayne Poultry Rd, SR 11 @ SR 11 Conn., SR 11 @ I-85 NB, SR 11 @ I-85 SB, and SR 11 Conn. @ SR 15 Alt.

Lighting required: No Yes

Transportation Management Plan [TMP] Required: No Yes
 If Yes: Project classified as: Non-Significant Significant
 TMP Components Anticipated: TTC TO PI

Will Context Sensitive Solutions procedures be utilized? No Yes

Design Exceptions to FHWA/AASHTO controlling criteria anticipated: None

Design Variances to GDOT Standard Criteria anticipated: None

UTILITY AND PROPERTY

Temporary State Route Needed: No Yes Undetermined

Railroad Involvement: None

Utility Involvements:

- Georgia Power – Distribution – No impacts
- Atlanta Gas Light - \$565,000 Non-Reimbursable - \$0 Reimbursable
- City of Jefferson – No Impacts
- Windstream – No Impacts
- Jackson Water/ Sewer Authority – No Impacts
- Jackson EMC - \$162,000 Non-Reimbursable - \$144,000 Reimbursable
- Windstream CATV - \$1,800 Non-Reimbursable - \$2,940 Reimbursable
- City of Commerce - \$733,026 Non-Reimbursable - \$0 Reimbursable

SUE Required: No Yes

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

Right-of-Way: Existing width: Varies Proposed width: No Change
Required Right-of-Way anticipated: No Yes Undetermined
Easements anticipated: None Temporary Permanent Utility Other

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

ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document:

GEPA: NEPA: CE PCE

MS4 Compliance – Is the project located in an MS4 area? No Yes

Environmental Permits, Variances, Commitments, and Coordination anticipated:

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

NEPA/GEPA Comments & Information:

Ecology: No suitable habitat for protected species was observed at project intersections. At locations where waters of the US/state waters are located, it does not appear the proposed improvements would require a 404 CWA permit or Stream Buffer Variance.

History: One property 50 years of age or older (Former Gainesville Midland Railroad) was identified within the proposed project's APE during the field survey. An eligibility determination is pending GDOT review of the survey report. Regardless of the eligibility determination, no impacts are anticipated.

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 an attainment area for PM2.5 and ozone. A CO hot-spot analysis is not anticipated.

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

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Project Meetings: Concept Team Meeting held 10/16/13, meeting minutes attached

Project Activity	Party Responsible for Performing Task(s)
Concept Development	ICA Engineering, Inc.
Design	ICA Engineering, Inc.
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, Inc.
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

Other coordination to date: None

Project Cost Estimate and Funding Responsibilities:

	Breakdown of PE	ROW	Reimbursable Utility	CST*	Environmental Mitigation	Total Cost
Funded By	GDOT	GDOT	GDOT	GDOT	GDOT	
\$ Amount	\$396,056.04	\$0	\$146,940	\$1,335,751.71	\$0	\$1,878,747.75
Date of Estimate	2012	10/24/2013	10/15/2013	10/30/2013	10/24/2013	

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

Note: No Liquid AC Cost Adjustment required, no asphalt proposed on project.

ALTERNATIVES DISCUSSION

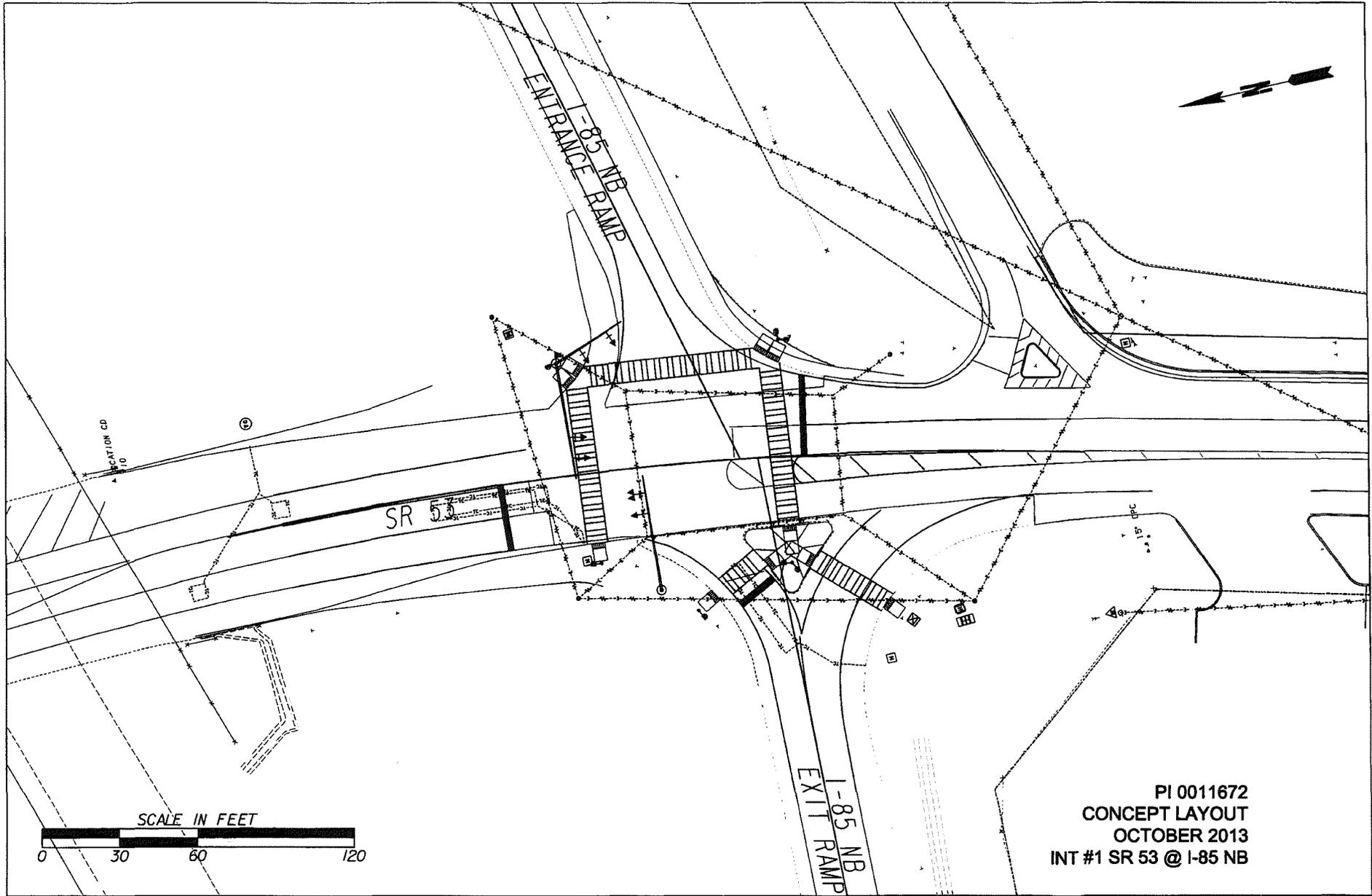
Preferred Alternative:			
Estimated Property Impacts:	0	Estimated Total Cost:	\$1,878,747.75
Estimated ROW Cost:	\$0	Estimated CST Time:	12 Months
Rationale: This alternative meets the goal of the project which is upgrade the existing signals and pedestrian facilities			

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

LIST OF ATTACHMENTS/SUPPORTING DATA

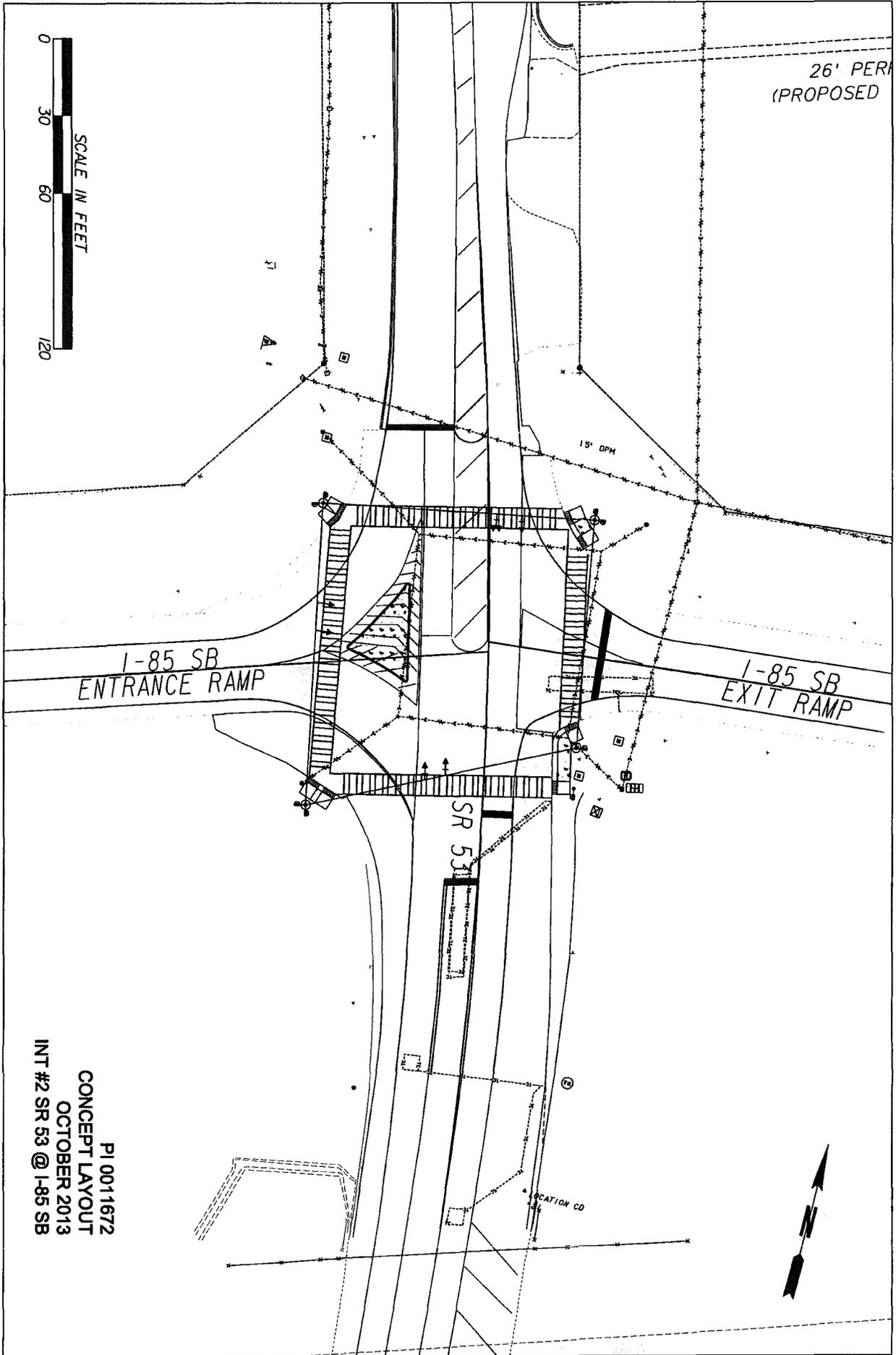
1. Concept Layout
2. Cost Estimates
 - a. CES Output
 - b. Utility Cost Estimate
3. Concept Team Meeting Minutes



PI 0011672
CONCEPT LAYOUT
OCTOBER 2013
INT #1 SR 53 @ I-85 NB

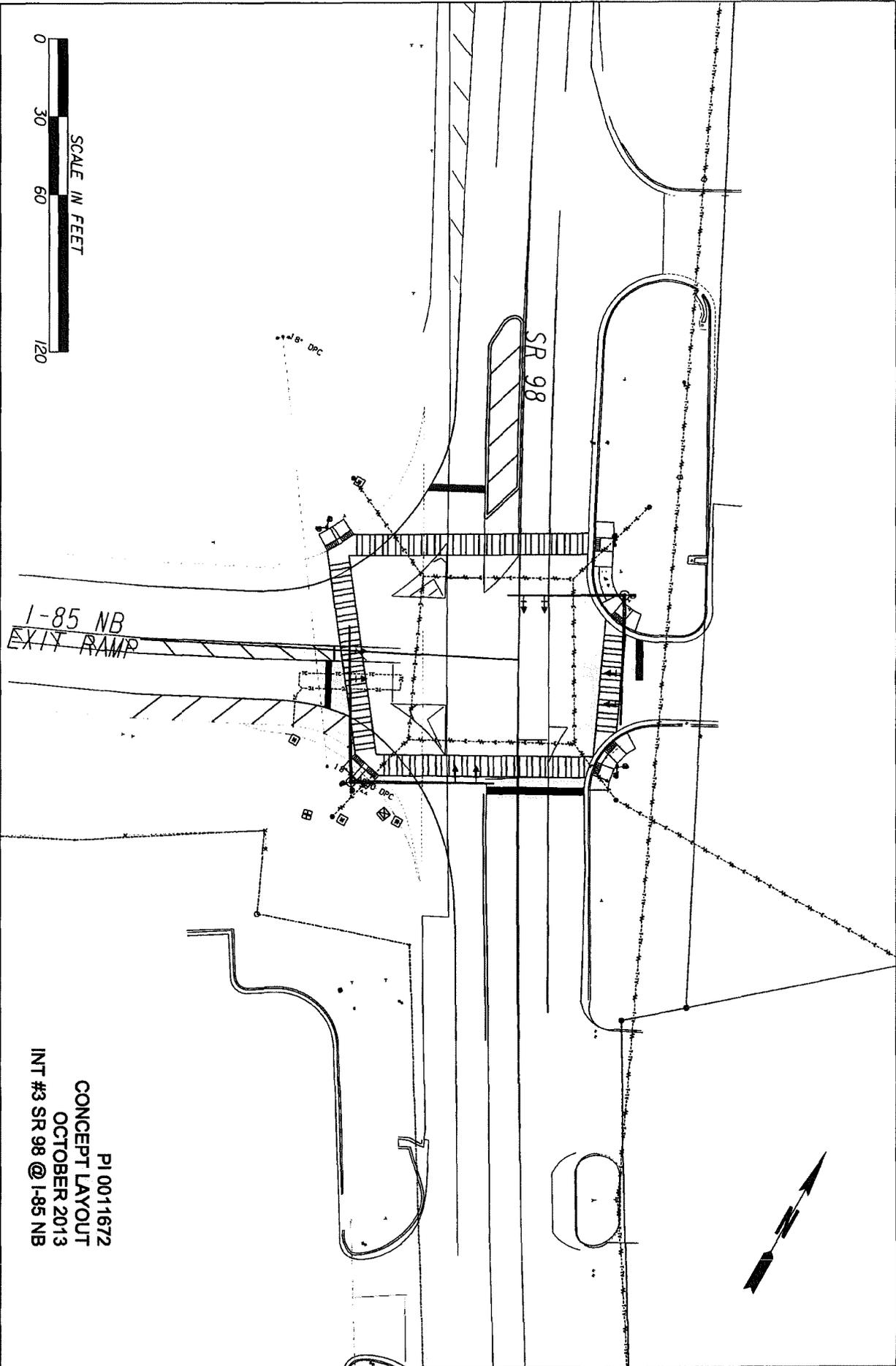


26' PERM
(PROPOSED)



PI 0011672
CONCEPT LAYOUT
OCTOBER 2013
INT #2 SR 53 @ I-85 SB





SCALE IN FEET
0 30 60 120

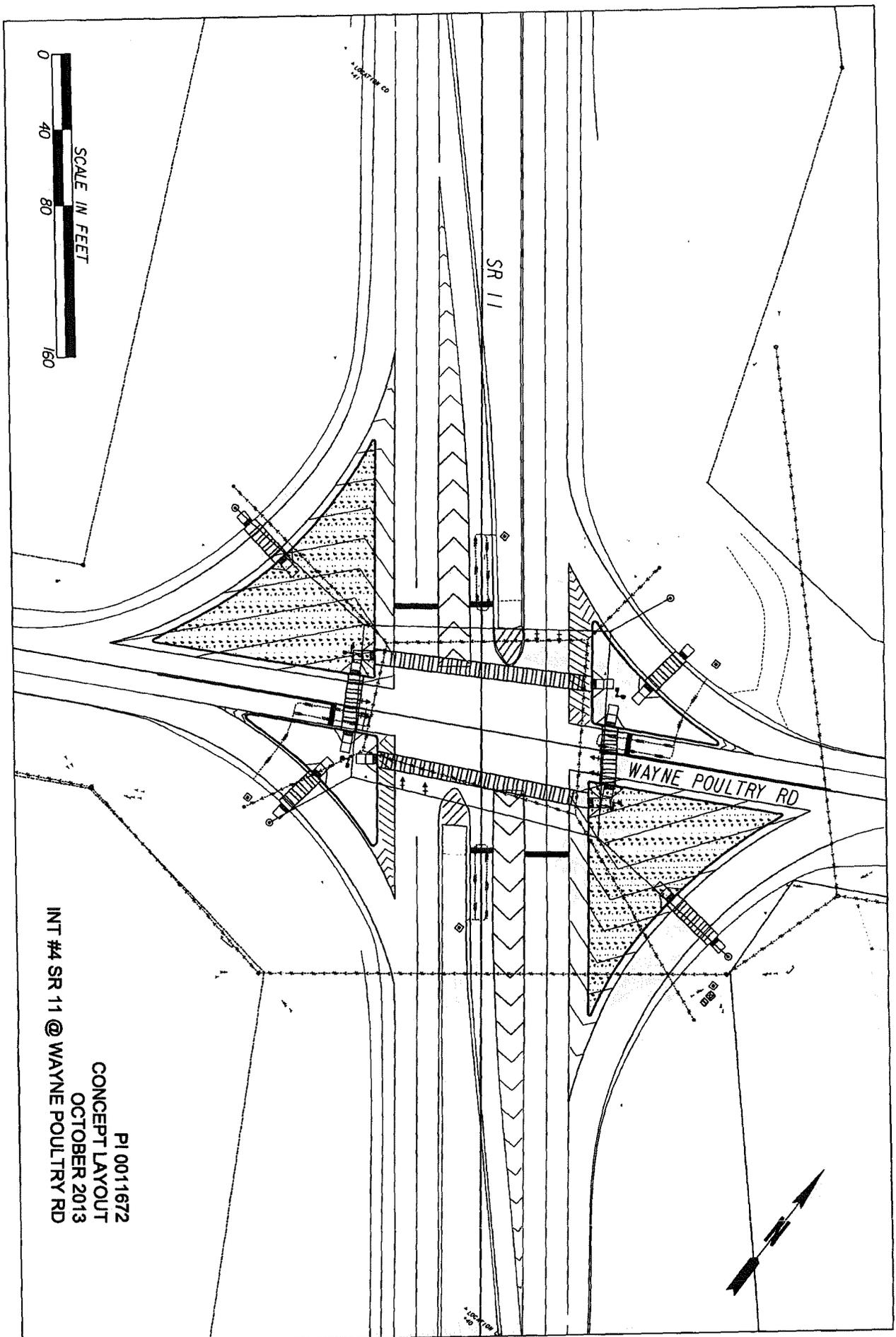
I-85 NB
EXIT RAMP

SR 98

PI 0011672
CONCEPT LAYOUT
OCTOBER 2013
INT #3 SR 98 @ I-85 NB



PI 0011672
CONCEPT LAYOUT
OCTOBER 2013
INT #4 SR 11 @ WAYNE POULTRY RD





PI 0011672
CONCEPT LAYOUT
OCTOBER 2013
INT #5 SR 11 @ SR 11 CONN.

SR 11 CONN.

SR 11

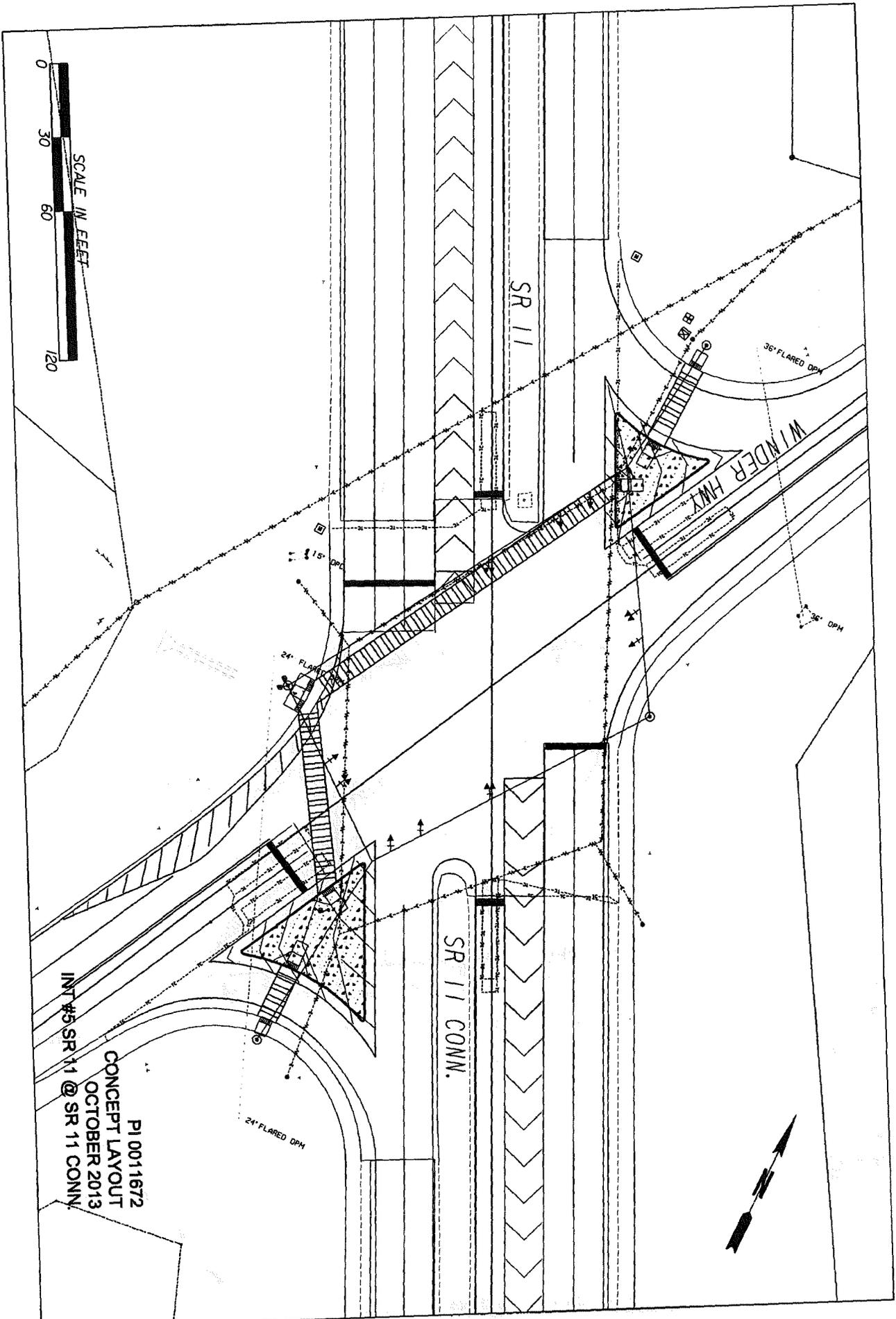
WINDER HWY

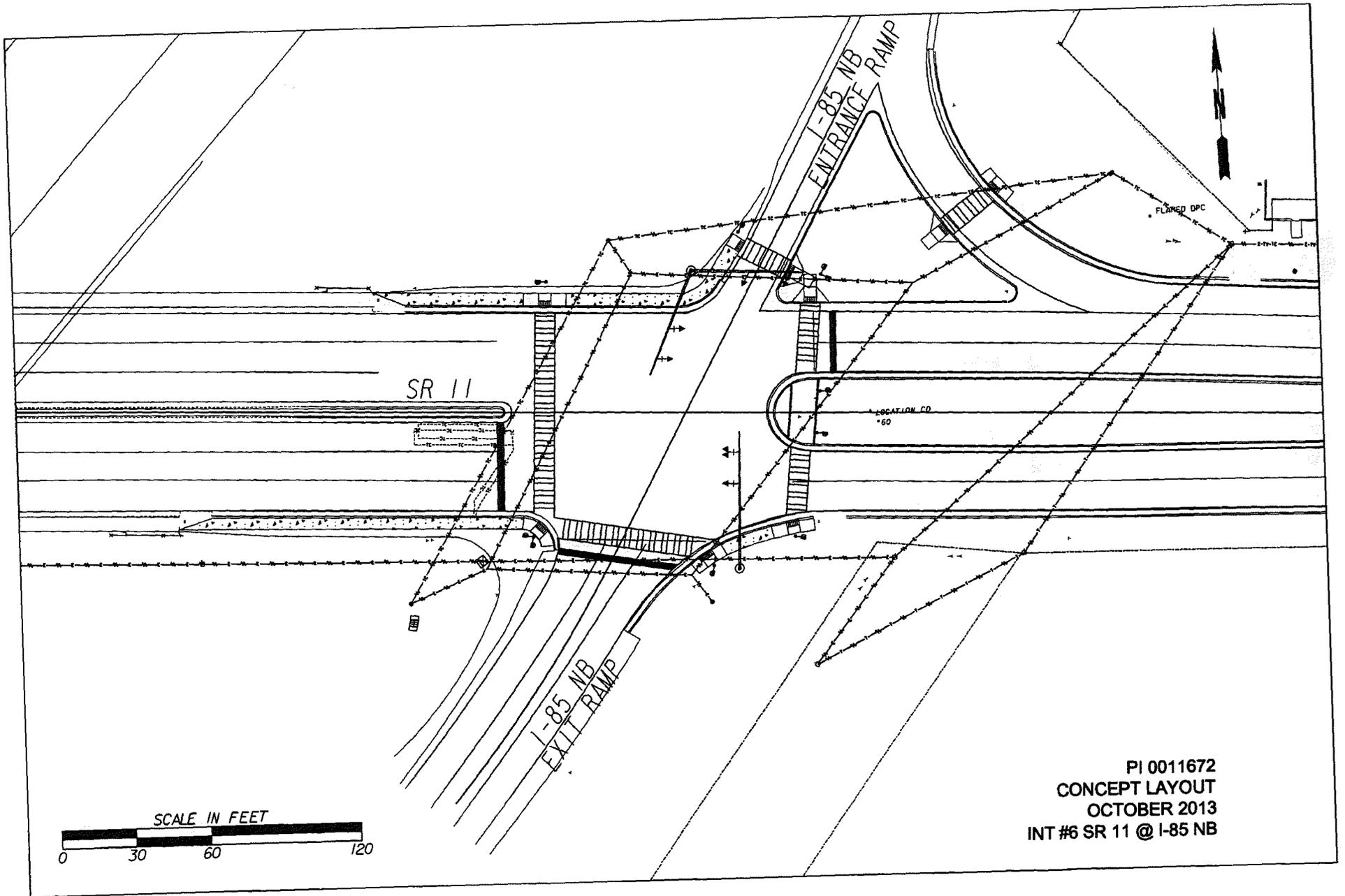
36" FLARED DPH

24" FLARED DPH

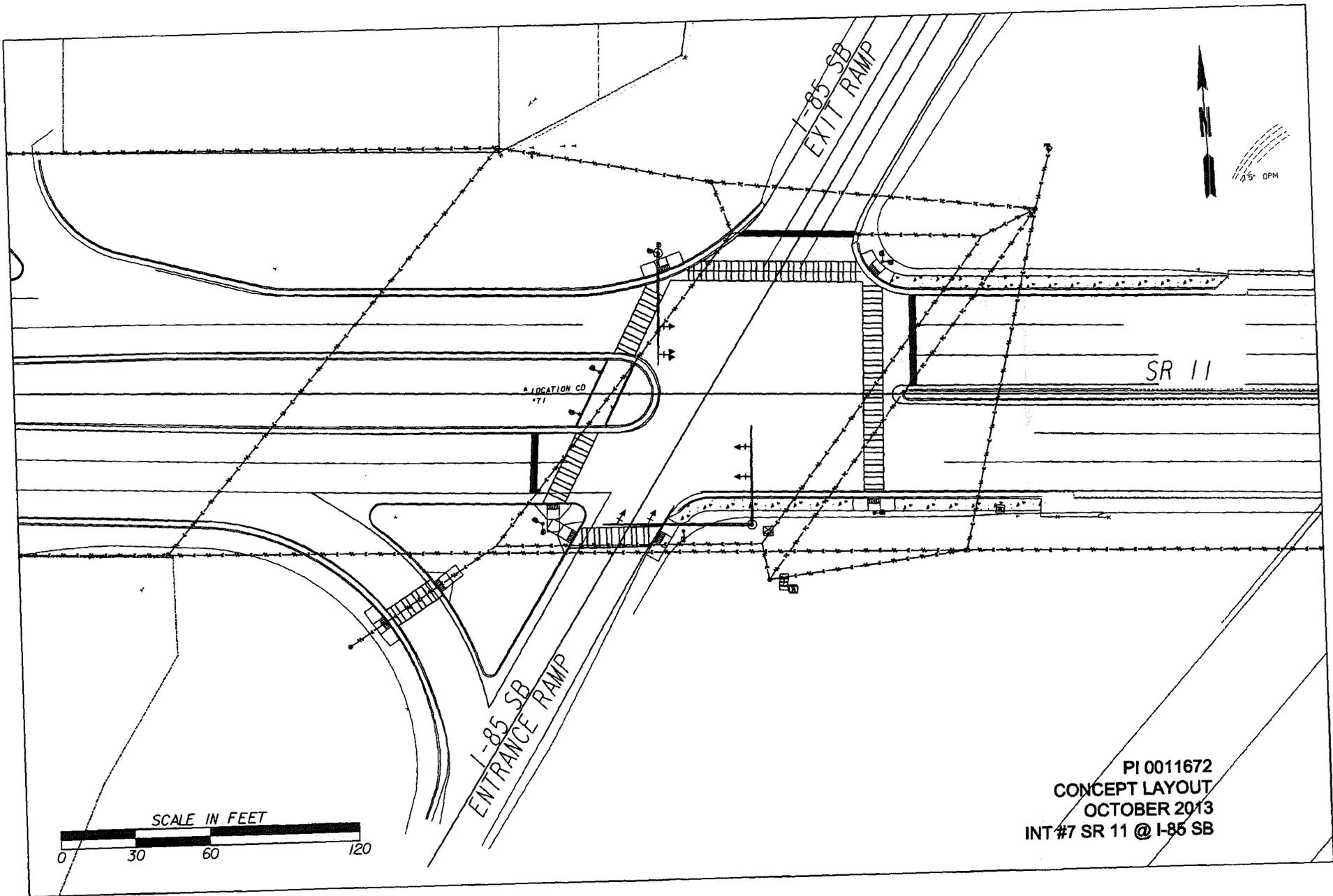
24" FLARED DPH

36" DPH

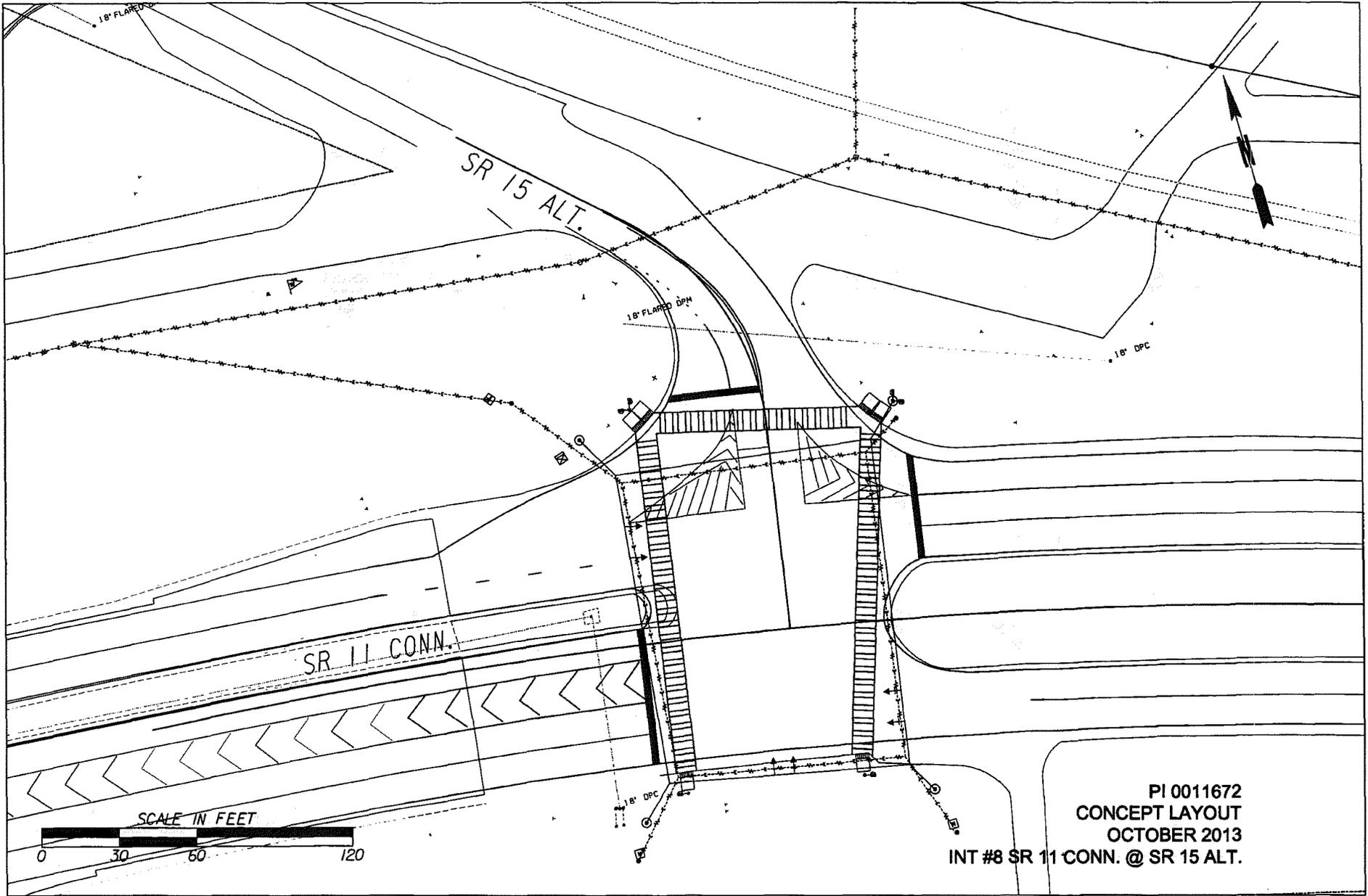




PI 0011672
CONCEPT LAYOUT
OCTOBER 2013
INT #6 SR 11 @ I-85 NB



PI 0011672
CONCEPT LAYOUT
OCTOBER 2013
INT #7 SR 11 @ I-85 SB



PI 0011672
CONCEPT LAYOUT
OCTOBER 2013

INT #8 SR 11 CONN. @ SR 15 ALT.

STATE HIGHWAY AGENCY

DATE : 10/30/2013

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JOB DETAIL ESTIMATE

JOB NUMBER : 0011672 SPEC YEAR: 01
 DESCRIPTION: SIGNAL UPGRADES - JACKSON COUNTY

ITEMS FOR JOB 0011672

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - 0011672	1.000	90000.00	90000.00
0010	210-0100		LS	GRADING COMPLETE - 0011672	1.000	150000.00	150000.00
0015	441-0104		SY	CONC SIDEWALK, 4 IN	248.000	41.19	10216.02
0019	441-0108		SY	CONC SIDEWALK, 8 IN	200.000	70.24	14049.29
0020	441-0748		SY	CONC MEDIAN, 6 IN	1890.000	34.60	65409.89
0025	700-6910		AC	PERMANENT GRASSING	1.000	715.20	715.21
0030	700-7000		TN	AGRICULTURAL LIME	2.000	12.08	24.17
0035	700-8000		TN	FERTILIZER MIXED GRADE	1.000	487.80	487.81
0040	716-2000		SY	EROSION CONTROL MATS, SLOPES	150.000	0.20	30.54
0045	163-0232		AC	TEMPORARY GRASSING	1.000	236.48	236.48
0050	163-0240		TN	MULCH	13.000	38.14	495.93
0055	165-0010		LF	MAINT OF TEMP SILT FENCE, TP A	2000.000	0.66	1320.88
0060	165-0030		LF	MAINT OF TEMP SILT FENCE, TP C	600.000	0.75	450.05
0065	171-0010		LF	TEMPORARY SILT FENCE, TYPE A	4000.000	0.27	1085.04
0070	171-0030		LF	TEMPORARY SILT FENCE, TYPE C	1200.000	1.80	2163.50
0075	643-8200		LF	BARRIER FENCE (ORANGE), 4 FT	200.000	24.37	4875.69
0080	653-1501		LF	THERMO SOLID TRAF ST 5 IN, WHI	11405.000	0.49	5626.88
0085	653-1502		LF	THERMO SOLID TRAF ST, 5 IN YEL	5735.000	0.76	4375.06
0090	653-1704		LF	THERM SOLID TRAF STRIPE, 24", WH	880.000	0.28	247.77
0095	653-1804		LF	THERM SOLID TRAF STRIPE, 8", WH	12260.000	1.02	12596.29
0100	653-3501		GLF	THERMO SKIP TRAF ST, 5 IN, WHI	1900.000	1.77	3364.65
0105	653-6004		SY	THERM TRAF STRIPING, WHITE	1072.000	5.83	6254.47
0110	653-6006		SY	THERM TRAF STRIPING, YELLOW	568.000	7.48	4249.28
0115	441-6022		LF	CONC CURB & GUTTER, 6"X30"TP2	120.000	0.22	27.56
0120	653-3502		GLF	THERMO SKIP TRAF ST, 5 IN, YEL	50.000	0.66	33.11
0130	639-3004		EA	STEEL STRAIN POLE, TP IV	24.000	12609.50	302628.00
0135	682-6120		LF	CONDUIT, RIGID, 2 IN	2050.000	10.67	21882.87
0140	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 1	1.000	52000.00	52000.00
0145	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 2	1.000	52800.00	52800.00
0150	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 3	1.000	52200.00	52200.00
0155	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 4	1.000	50000.00	50000.00
0160	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 5	1.000	55200.00	55200.00
0165	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 6	1.000	55900.00	55900.00
0170	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 7	1.000	57500.00	57500.00
0175	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 8	1.000	47200.00	47200.00
0180	687-1000		LS	TRAFFIC SIGNAL TIMING - 0011672	1.000	37600.00	37600.00
0185	935-8000		LS	TESTING	1.000	3188.00	3188.00
0190	937-6050		EA	INT VIDEO DET SYS ASMBLY, TP A	22.000	4233.86	93144.95
0200	937-8030		LS	TESTING - INTERSECTION VIDEO DETECTION	1.000	2142.00	2142.00
0205	937-8530		LS	TRAINING - INTERSECTION VIDEO DETECTION	1.000	3160.00	3160.00
0210	937-6150		EA	PROGRAMMING MONITOR, TP A	8.000	402.84	3222.79

STATE HIGHWAY AGENCY

DATE : 10/30/2013
PAGE : 2

JOB DETAIL ESTIMATE

0215	700-8100	LB	FERTILIZER NITROGEN CONTENT	5.000	4.02	20.14
0220	682-9950	LF	DIRECTIONAL BORE - ALL SIZES	2050.000	1.96	4020.17
ITEM TOTAL						1272144.52
INFLATED ITEM TOTAL						1272144.52
TOTALS FOR JOB 0011672						
ESTIMATED COST:						1272144.49
CONTINGENCY PERCENT (GE&I) (5.0): <i>E&I KLP</i>						63607.22
ESTIMATED TOTAL:						1335751.71

NOTE: The item totals include all alternate items. The estimated totals include only the low cost alternate items.

CONCEPT TEAM MEETING MINUTES
P.I. No. 0011672

MEETING

DATE: October 16, 2013 @ 9:00 am

MEETING

LOCATION: Conference Room, GDOT Gainesville District Office

RE: PI 0011672 Signal Upgrades – Jackson County

TO: Distribution List, See Attached

Introduction:

Davida White (GDOT PM) opened the meeting with a brief description of the project and introductions and turned the meeting over to Ben Clopper (ICA) to discuss the Concept Report.

Project Identification:

Ben Clopper gave an overview of the project which is to upgrade 8 traffic signals in Jackson County to current MUTCD and ADA standards.

Project Schedule:

The project is currently on schedule. Concept approval is scheduled for 12/10/13. Environmental Approval is scheduled for 11/25/14. PFPR is scheduled for 1/20/15. R/W Authorization is 6/1/15. FFPR is 10/9/15 and Letting is scheduled for June 2016.

Project Issues:

1. **Project Justification:**
The project justification is included in the Draft Concept and is to upgrade the eight 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 Non-Buffered State Waters located near some of the intersections, but none will be impacted by the project. The Ecology Study is underway.

- b. **Park Lands:**
No parks have been located
 - c. **Historic Properties, potential archaeological sites:**
The railroad adjacent to Int #8 is a historic property, but will not be impacted by the project. No archaeological sites have been identified, the archaeology study is underway.
 - 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, but the tanks are located outside of the project limits
 - g. **Threatened and Endangered Species:**
No habitats identified
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.
 14. **Intersection Control additions or modifications that require permitting**
At Int #3 there is gas station driveway across from the end of the interstate ramps. Currently the ramps are signalized, but the gas station driveway is not. It is proposed to include the driveway into the signal.
 15. **Practical Alternatives Review (PAR)**
N/A
 16. **Type of environmental document anticipated**
The Draft Concept Report lists a CE, but this can be changed to a Programmatic CE

17. Environmental permits/studies required
None
18. Project Framework Agreement
N/A
19. Right-of-Way requirements/estimate including easements
 - a. Potential number of parcels
None
 - b. Number of relocates
None
 - c. Estimated right-of-way cost
\$0
 - d. Who will be responsible for purchasing right-of-way
GDOT (if necessary)
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
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 - \$1,260,482.89
Utility - \$146,940
R/W - \$0
The project responsibilities in the cost chart on Page 9 will be revised to show GDOT as responsible for Construction and Environmental Mitigation
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**
Signals will be interconnected as required
34. **Maintenance issues with the ITS system**
N/A
35. **Name, size and location of utilities along the project (including utility cost estimate)**
Georgia Power-Distribution – No Impacts
Atlanta Gas Light - \$565,000 (Non-Reimbursable)
City of Jefferson – No Impacts
Windstream – No Impacts
Jackson Water/Sewer Authority – No Impacts
Jackson EMC - \$144,000 (Reimbursable), \$162,000 (Non-Reimbursable)
Windstream CATV - \$2,940 (Reimbursable), \$1,800 (Non-Reimbursable)
City of Commerce - \$733,026 (Non-Reimbursable)
36. **Public Interest Determination findings**
Not required
37. **SUE status**
Davida White indicated that SUE will be initiated for this project
38. **Proximity and probable impacts to railroad and railroad right-of-way**
There is a railroad located near Int #7, but it will not be impacted by this project.
39. **Proximity to airports**
N/A
40. **Other Nearby Projects**
There is a local project on SR 53 beginning on the north side of Int #2 to widen SR 53 to 5 lanes. The District will provide these plans to ICA
There is a maintenance project (M004682) to add a right turn lane to northbound SR 11 Connector on Int #5. The District will provide these plans and schedule to ICA.

Review of Concept Layouts:

Following the review of the concept report the individual layouts were reviewed by the group and later observed in the field. Comments were offered as outlined below:

General comments:

- Move strain poles out of all islands
- Use multiple wheelchair ramps where possible

Intersection #1

- The strain pole in the island should be moved to the shoulder
- The guardrail adjacent to the I-85 NB Entrance Ramp can be shifted back to allow for a pedestrian landing crossing to this corner. This may require a cut through on the existing island of the Exit Ramp. Crosswalks will be added to this corner

- Check the turning movement of I-85 NB Exit Ramp to SR 53 northbound and adjust the stop bars as necessary.

Intersection #2

- Change the striped island on the I-85 SB Entrance Ramp to a raised island
- Extend the SR 53 SB stop bar all the way across and move it back, this will allow the crosswalk to be adjusted to a more perpendicular crossing.
- Once plans for the project to the north of this intersection are available they will be incorporated into the design
- This will likely need to be converted to a span wire configuration
- A signal head may need to be added for the right turning exit ramp traffic

Intersection #3

- Include a crosswalk to the southern corner. Make this a perpendicular crossing which will pull the stop bars back
- Make the crosswalk across the north side of SR 98 perpendicular, which will pull back the stop bars and hatching
- Extend all stop bars across lanes

Intersection #4

- This will need to be converted to a span wire configuration to allow for future left turn signal heads.
- The District will check with Maintenance to see if the proposed islands are preferred to be grass or concrete

Intersection #5

- Include a crosswalk on the north side of SR 11, roughly following the existing span wire
- The concrete pad on the east corner will not fit with the guardrail, the crossing to this corner can be removed.
- This intersection will need to be converted to span wire

Intersection #6

- Extend the sidewalk to the bridge on both sides of SR 11
- Remove the mast arm from the NE island and combine this mast arm with onto the strain pole in the NW corner, adjust the location of the strain pole as necessary. Add ped poles as necessary
- Adjust the crosswalk across the western approach to be perpendicular to the roadway.

Intersection #7

- Extend the sidewalk to the bridge on both sides of SR 11
- A ped pole may be required in the median on the north side, check requirements

Intersection #8

- Include a crosswalk across SR 15 Alt

- A supplemental head will be required for SR 15 Alt
- Check the turning movement from SR 15 Alt to SR 11 Conn and adjust median as necessary
- This will need to be converted to a span wire configuration to allow for future left turn signal heads.

Attendees

See attached Sign in Sheet

White, Davida

From: Clopper, Ben <bclopper@icaeng.com>
Sent: Friday, November 08, 2013 11:00 AM
To: White, Davida
Subject: 0011672 Concept Report
Attachments: 0011672 Concept Report 131108.pdf; 0011672 CR QAQC Letter Signed.pdf

Davida,

Attached is the signed Concept Report and QA/QC Letter for the Jackson County Signal Upgrades. Please let me know if you have any comments, and if not, can you please make the submittal for approval? Below are the comments received in September from Kim Phillips and our responses. Thanks,

- I really don't have that many comments. The submitting office signatures will be need when formally submitting the Concept report
Added consultant preparer signature
- It would not hurt to label the location sketches better. (what are the blue square numbers)
Adjusted intersection labels to make more clear. Numbers in blue squares correspond to intersection numbers on page 4
- As note an approved utility estimate will need to be included.
Utility Cost Estimate has been included
- More info needs to be filled out like the description on the cover pager.
No changes made, unclear what additional information is necessary. Similar descriptions have been used on recent signal upgrade projects without comment.
- Remove any italics or instructions which are not needed.
These items have been removed

Ben Clopper, PE
Senior Project Engineer
ICA Engineering, Inc.
1300 Ridenour Blvd., Suite 300 Kennesaw, GA 30152
T 770.428.0157 | M 678.361.3542 | F 770.428.8957
bclopper@icaeng.com | www.icaeng.com



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KeA KENNEDY ENGINEERING
& ASSOCIATES GROUP LLC

November 6, 2013

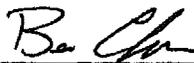
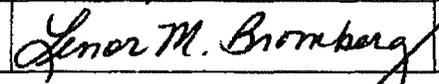
Office of Program Delivery
Georgia Department of Transportation
One Georgia Center, 25th Floor
600 W. Peachtree Street, NW
Atlanta, GA 30308

Attn: Davida White, Project Manager

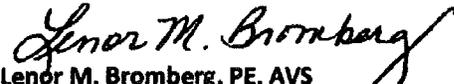
Re: PI No. 0011672, Jackson County
Signal Upgrade
QA/QC Document Review

Dear Ms White:

A QA/QC Document Review has been completed for the following document and is ready for submittal to the Office of Program Delivery:

Project Description	Signal Upgrade	County	Jackson
PI No.	0011672		
Document Title	Concept Report		
Consultant Firm	ICA Engineering f/k/a/ Florence & Hutcheson		
Consultant Project Manager	Ben Clopper, PE		
Consultant PM Phone/Email	770-428-0157, bclopper@icaeng.com		
	Name	Signature	Date
Consultant Preparer	Ben Clopper, PE		10/24/13
Consultant Reviewer	Lenor M. Bromberg, PE KEA Group		11/06/2013

Sincerely,
Kennedy Engineering & Associates Group LLC


Lenor M. Bromberg, PE, AVS
Associate Vice President – Environmental & Design

