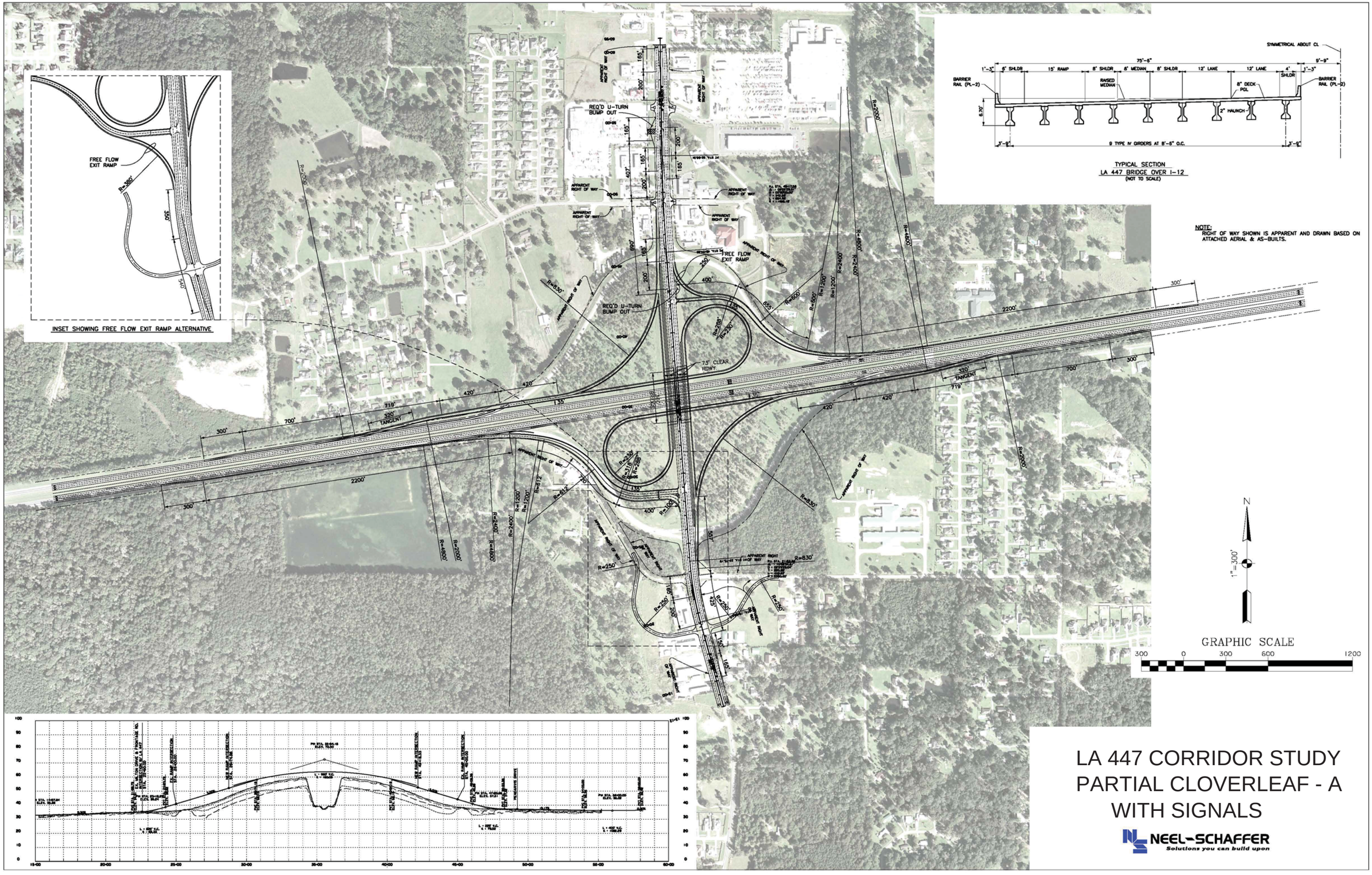
APPENDIX

I-12 @ LA 447 INTERCHANGE STUDY



LA 447 CORRIDOR STUDY
PARTIAL CLOVERLEAF - A WITH SIGNALS

NEEL-SCHAFFER
Solutions you can build upon

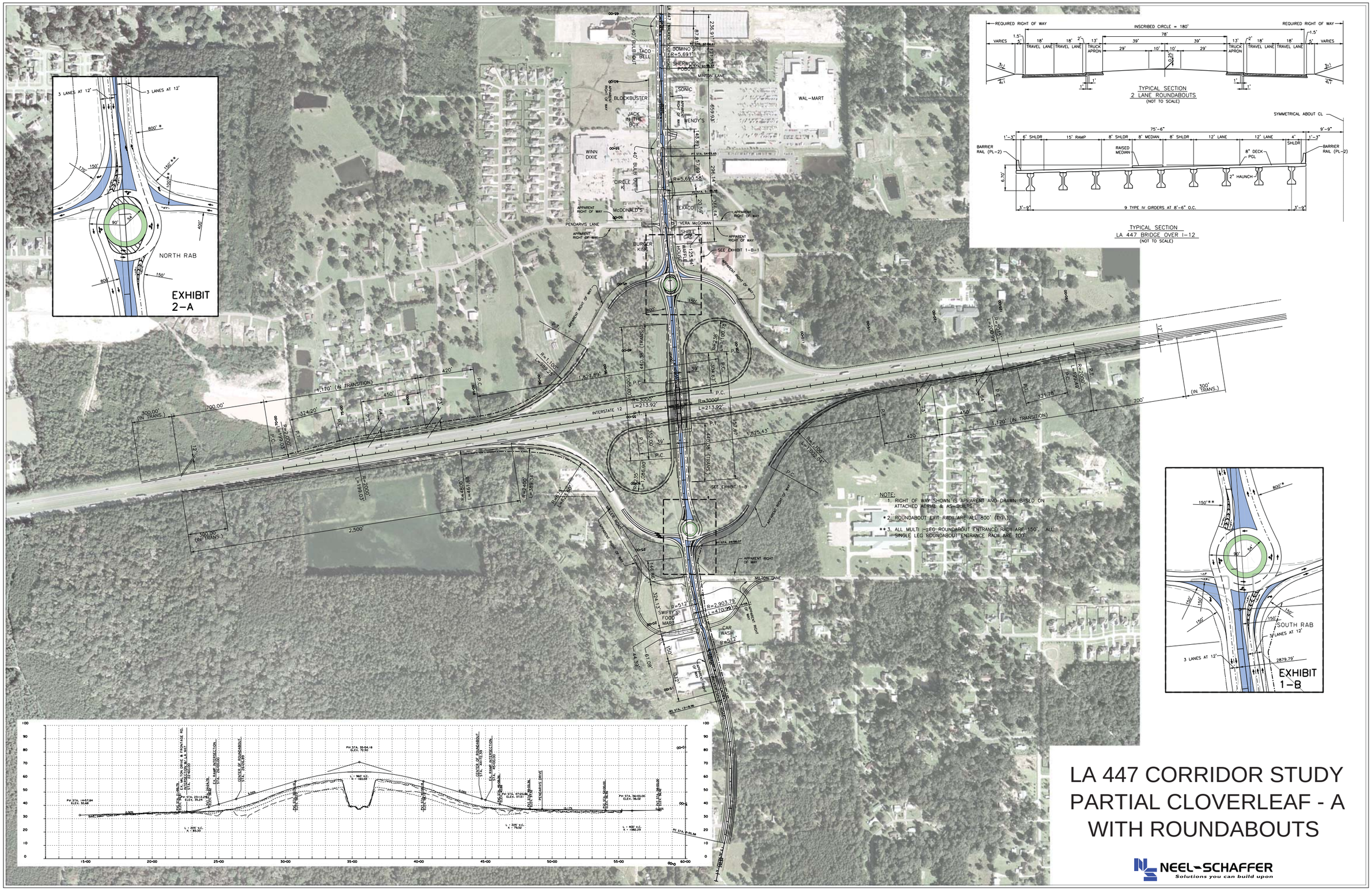
S.P. NO. 4400000651
T.O. NO. H.005734

LA 447 CORRIDOR STUDY
LA 447 AT INTERSTATE 12 INTERCHANGE CONCEPTS
WALKER, LA
LIVINGSTON PARISH, LOUISIANA

Preliminary Estimated Opinion of
Probable Construction Cost

Partial Cloverleaf - A with Signals					
Description	Unit	Unit Price	Quantity	Amount	Remarks
Clearing and Grubbing	LS	$250,000.00	1	$250,000.00	
Removal of Structures and Obstructions	LS	$125,000.00	1	$125,000.00	
Removal of Existing Bridge	EA	$50,000.00	1	$50,000.00	
Removal of Existing Pavement	SY	$9.50	55,270	$525,065.00	
Excavation	CY	$8.00	9,000	$72,000.00	
Embankment	CY	$18.00	55,000	$990,000.00	
Bridge Structure (LA 447 over I-12)	SY	$650.00	6,040	$3,926,000.00	Cost includes superstructure and substructure
Concrete Approach Slab	SY	$225.00	1,301	$292,725.00	
12" PCC Pavement (Travel Lanes)	SY	$55.00	75,400	$4,147,000.00	Assumed same pavement section for all road work.
9" PCC Pavement (Shoulder)	SY	$40.00	25,776	$1,031,040.00	Assumed same pavement section for all road work.
12" Stone Base		$35.00	130,235	$4,558,225.00	Assumed same pavement section for all road work.
Drainage	LS	$400,000.00	1	$400,000.00	
Erosion Control	LS	$125,000.00	1	$125,000.00	Cost includes all BMP materials for entire project limits
Pavement Markings	LS	$75,000.00	1	$75,000.00	Assumed pavement markings only necessary in areas of actual work within project areas. No restriping of existing roads.
			Subtotal	**$16,567,055**	
	Mobilization (8% of Subtotal Cost)			$1,325,364	
	Traffic Control (5% of Subtotal Cost)			$828,353	
			Subtotal	**$18,720,772**	
	25% Contingencies			$4,680,193	
			Total Construction Cost	**$23,400,965**	

Note: Right-of-Way, Utility Relocation, and Design cost were not included in the estimate.



LA 447 CORRIDOR STUDY
PARTIAL CLOVERLEAF - A WITH ROUNDABOUTS

S.P. NO. 4400000651
T.O. NO. H.005734

LA 447 CORRIDOR STUDY
LA 447 AT INTERSTATE 12 INTERCHANGE CONCEPTS
WALKER, LA
LIVINGSTON PARISH, LOUISIANA

Preliminary Estimated Opinion of
Probable Construction Cost

Partial Cloverleaf - A with Roundabouts					
Description	Unit	Unit Price	Quantity	Amount	Remarks
Clearing and Grubbing	LS	$350,000.00	1	$350,000.00	
Removal of Structures and Obstructions	LS	$250,000.00	1	$250,000.00	
Removal of Existing Bridge	EA	$50,000.00	1	$50,000.00	
Removal of Existing Pavement	SY	$9.50	55,269	$525,056.56	
Excavation	CY	$8.00	11,000	$88,000.00	
Embankment	CY	$18.00	85,871	$1,545,678.00	
Bridge Structure (LA 447 over I-12)	SY	$650.00	6,040	$3,926,000.00	Cost includes superstructure and substructure
Concrete Approach Slab	SY	$225.00	649	$146,025.00	
12" PCC Pavement (Travel Lanes)	SY	$55.00	69,890	$3,843,950.00	Assumed same pavement section for all road work.
9" PCC Pavement (Shoulder)	SY	$40.00	20,683	$827,320.00	Assumed same pavement section for all road work.
12" Stone Base		$35.00	96,290	$3,370,150.00	Assumed same pavement section for all road work.
Drainage	LS	$750,000.00	1	$750,000.00	
Erosion Control	LS	$150,000.00	1	$150,000.00	Cost includes all BMP materials for entire project limits
Pavement Markings	LS	$100,000.00	1	$100,000.00	Assumed pavement markings only necessary in areas of actual work within project areas. No restriping of existing roads.
			Subtotal	**$15,922,180**	
			Mobilization (8% of Subtotal Cost)	$1,273,774	
			Traffic Control (5% of Subtotal Cost)	$796,109	
			Subtotal	**$17,992,063**	
			25% Contingencies	$4,498,016	
			Total Construction Cost	**$22,490,079**	

Note: Right-of-Way, Utility Relocation, and Design cost were not included in the estimate.

PROPOSED ALTERNATIVES LAYOUTS

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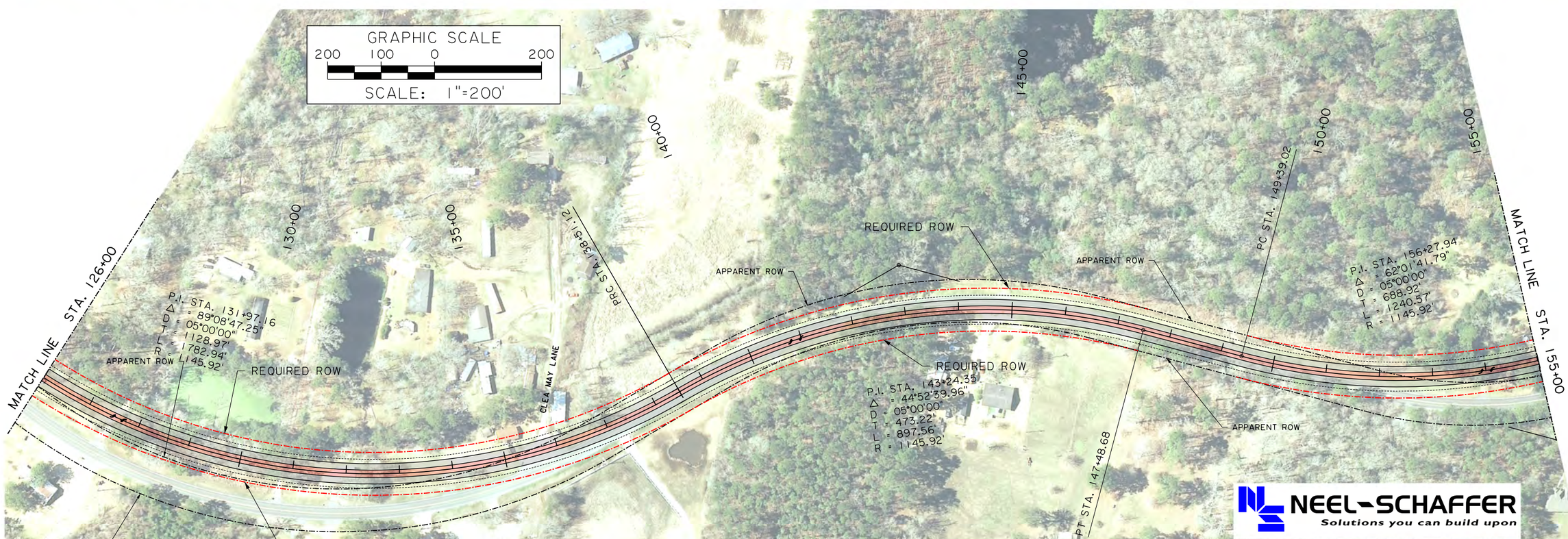
LA 447 CORRIDOR STUDY



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FEDERAL PROJECT	H.005734
STATE PROJECT	S.P. NO. 440000065 I T.O. NO. H.005734
DESIGNED CHECKED	
DETAILED CHECKED	
DATE SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

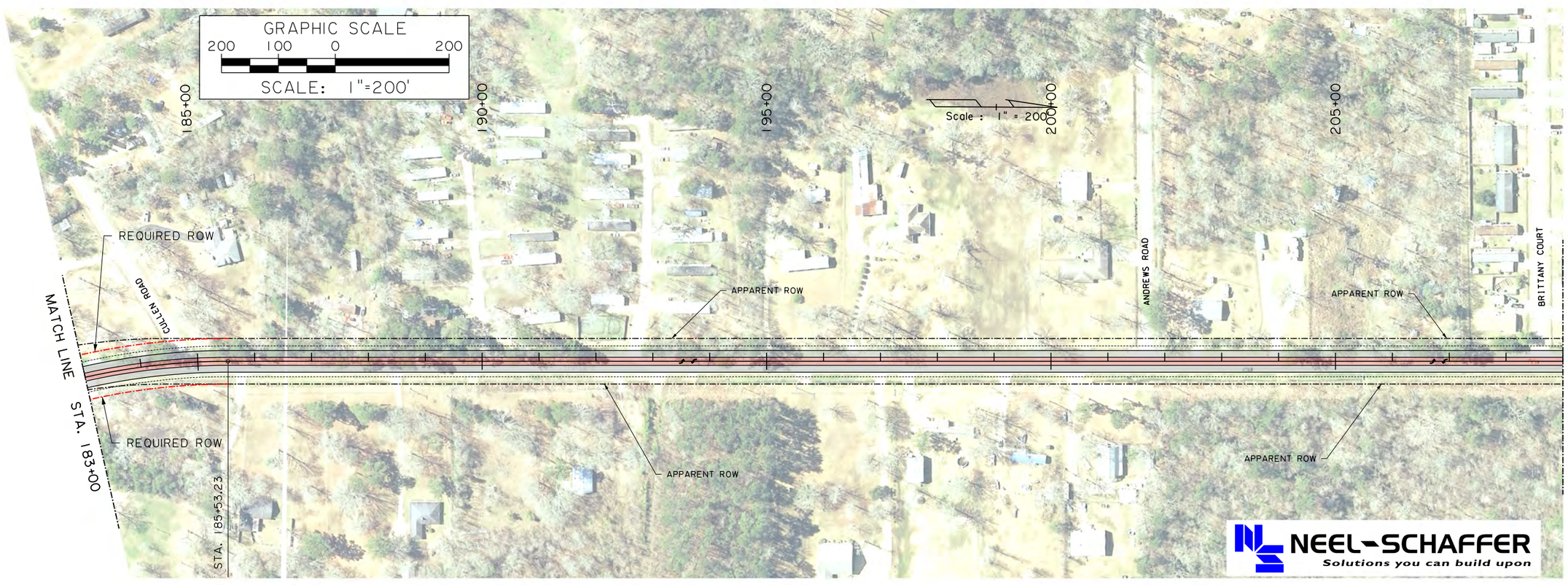
STATE OF LOUISIANA

LA 16 TO BUDDY ELLIS RD.
ALT. 1/ ALT.2

LA 447 CORRIDOR STUDY

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

La 447 layout 1.dgn



NEEL-SCHAFFER
Solutions you can build upon

SHEET NUMBER	PL-2
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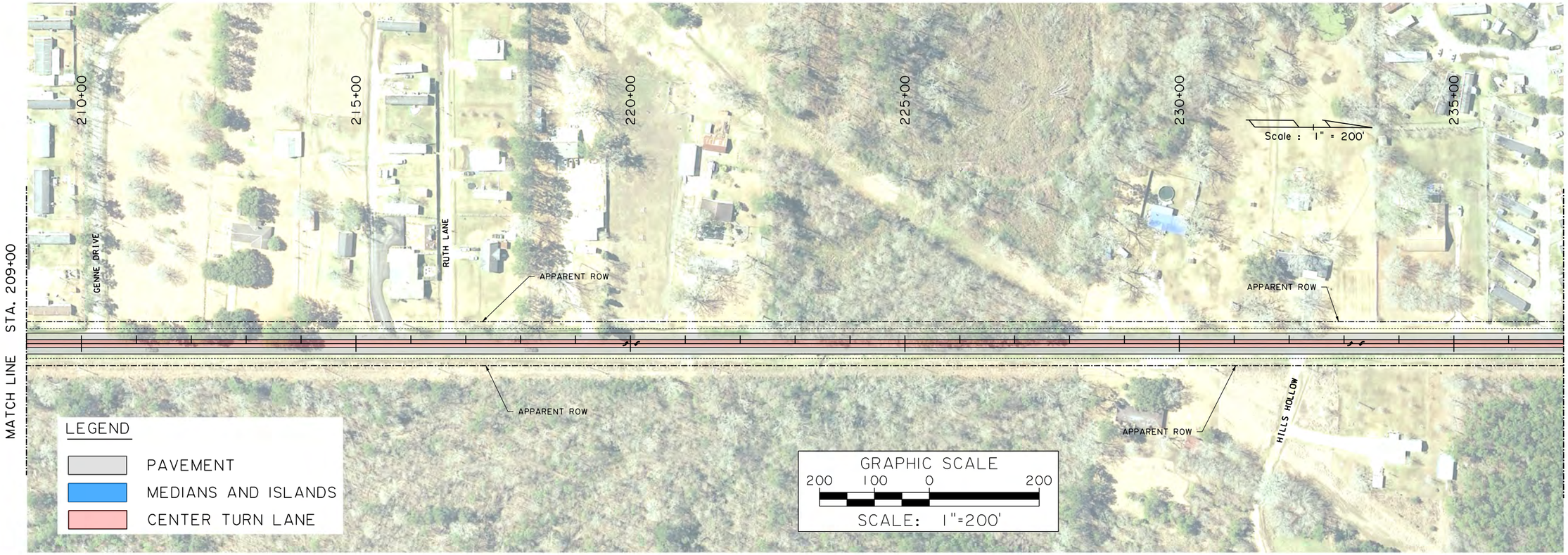
STATE PROJECT	S.P. NO. 440000065 I T.O. NO. H.005734
DESIGNED / CHECKED	
DETAILED / CHECKED	
DATE / SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

LA 16 TO BUDDY ELLIS RD.
ALT. 1/ ALT.2

LA 447 CORRIDOR STUDY

LA 447 CORRIDOR STUDY



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STATE PROJECT	S.P. NO. 440000065I T.O. NO. H.005734
DESIGNED / CHECKED	
DETAILED / CHECKED	
DATE / SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

STATE OF LOUISIANA

LA 16 TO BUDDY ELLIS RD.
ALT. 1/ ALT.2

LA 447 CORRIDOR STUDY

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

LA 447 CORRIDOR STUDY

2/13/2014 9:19:37 AM

La 447 layout 4.dgn

SHEET NUMBER PL-4

PARISH LIVINGSTON

FEDERAL PROJECT H.005734

STATE PROJECT S.P. NO. 4400000651 T.O. NO. H.005734

DESIGNED CHECKED

DETAILED CHECKED

DATE SHEET

NO. DATE REVISION DESCRIPTION BY

LA 16 TO BUDDY ELLIS RD.
ALT. 1/ ALT.2

LA 447 CORRIDOR STUDY

SHEET NUMBER	PL-5
PARISH	LIVINGSTON
FEDERAL PROJECT	H.005734
STATE PROJECT	S.P. NO. 440000065I T.O. NO. H.005734
DESIGNED / CHECKED	
DETAILED / CHECKED	
DATE / SHEET	

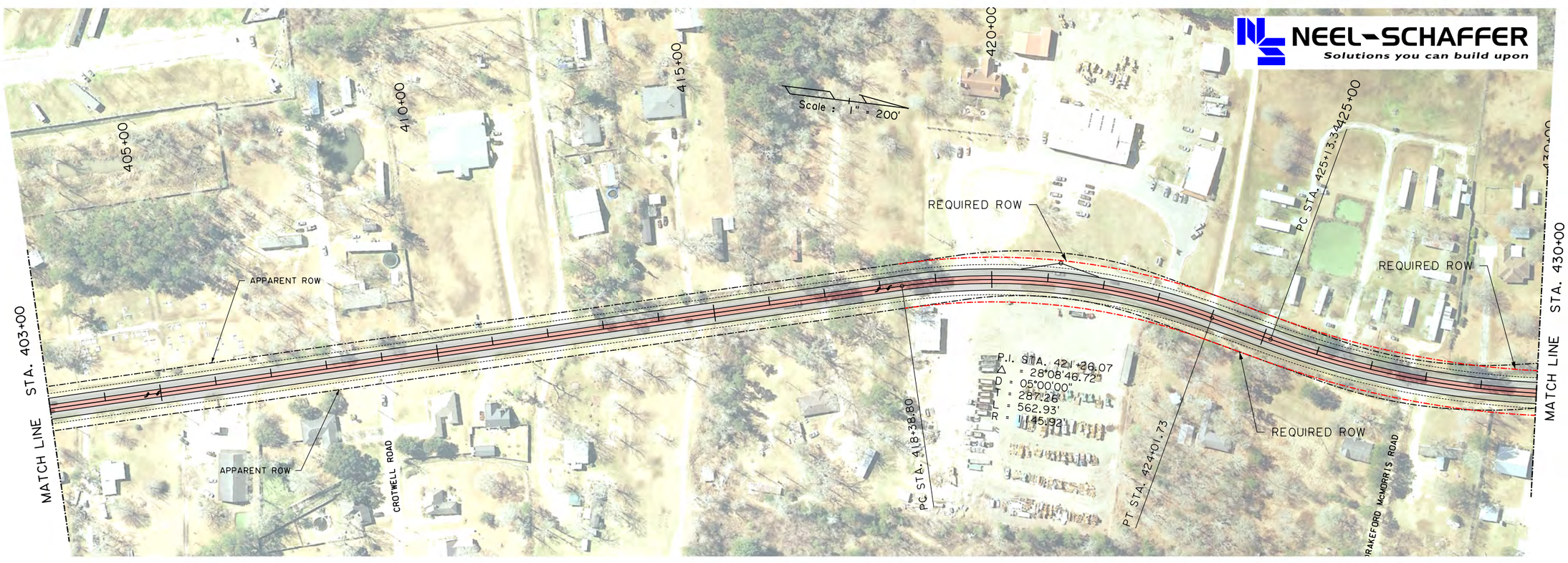
NO.	DATE	REVISION DESCRIPTION	BY

LA 16 TO BUDDY ELLIS RD.
ALT. 1/ ALT.2

LA 447 CORRIDOR STUDY

STATE OF LOUISIANA

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT



SHEET NUMBER	PL-6
PARISH	LIVINGSTON
FEDERAL PROJECT	H.005734
STATE PROJECT	S.P. NO. 440000065I T.O. NO. H.005734
DESIGNED / CHECKED	
DETAILED / CHECKED	
DATE / SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

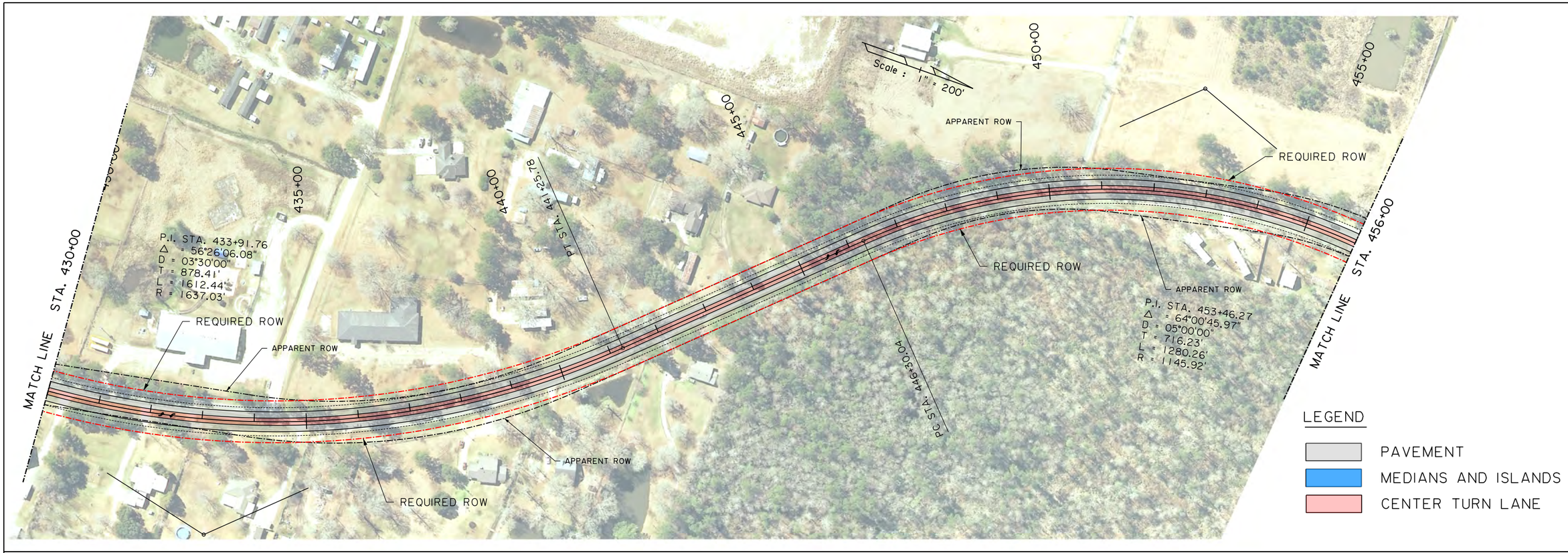
STATE OF LOUISIANA

LA 16 TO BUDDY ELLIS RD.
ALT. 1/ ALT.2

LA 447 CORRIDOR STUDY

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

LA 447 CORRIDOR STUDY



GRAPHIC SCALE
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SCALE: 1"=200'

NEEL-SCHAFFER
Solutions you can build upon

SHEET NUMBER	PL-7
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FEDERAL PROJECT	H.005734
STATE PROJECT	S.P. NO. 440000065 I T.O. NO. H.005734
DESIGNED / CHECKED	
DETAILED / CHECKED	
DATE / SHEET	

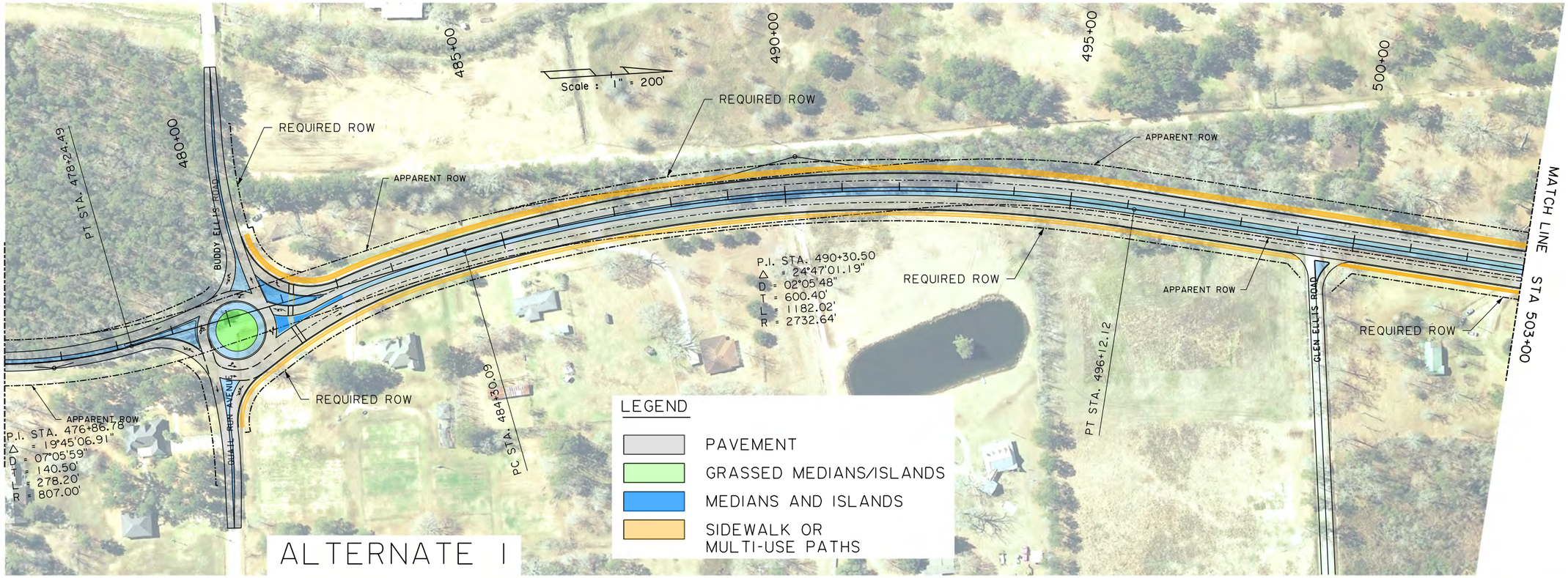
NO.	DATE	REVISION DESCRIPTION	BY

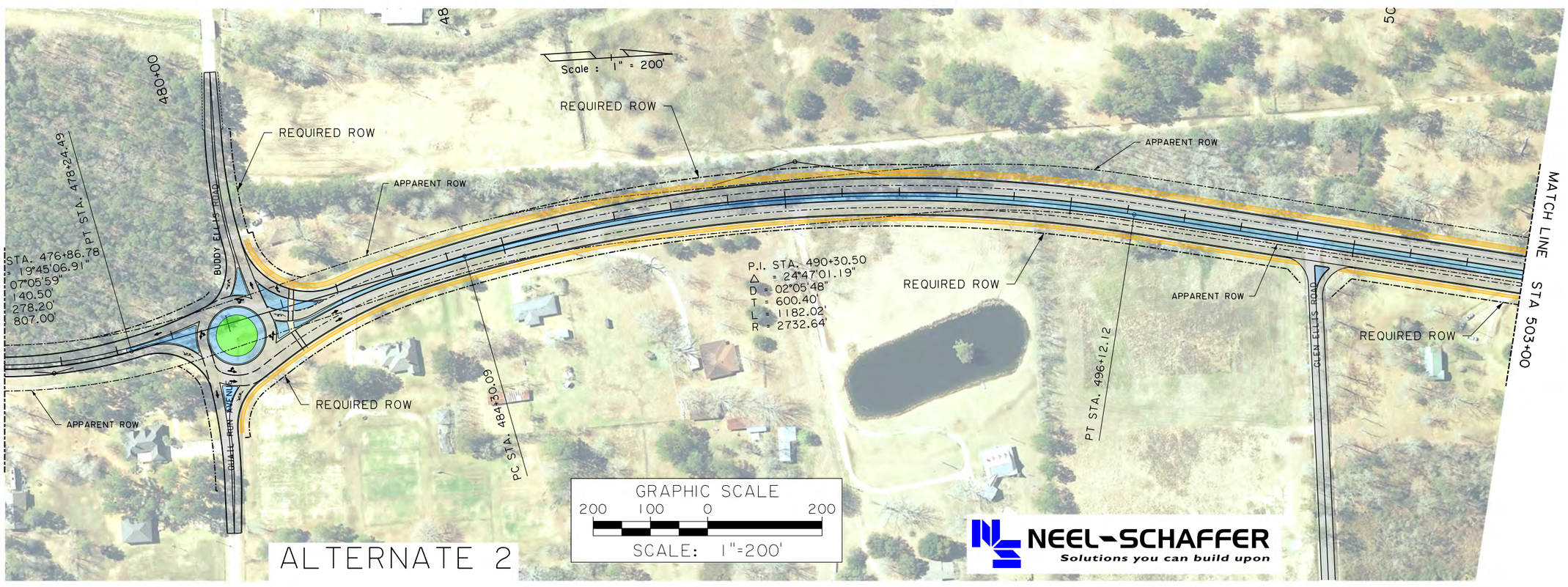
LA 16 TO BUDDY ELLIS RD.
ALT. 1/ ALT.2

LA 447 CORRIDOR STUDY

STATE OF LOUISIANA

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT





NEEL-SCHAFFER
Solutions you can build upon

SHEET NUMBER	PL-8
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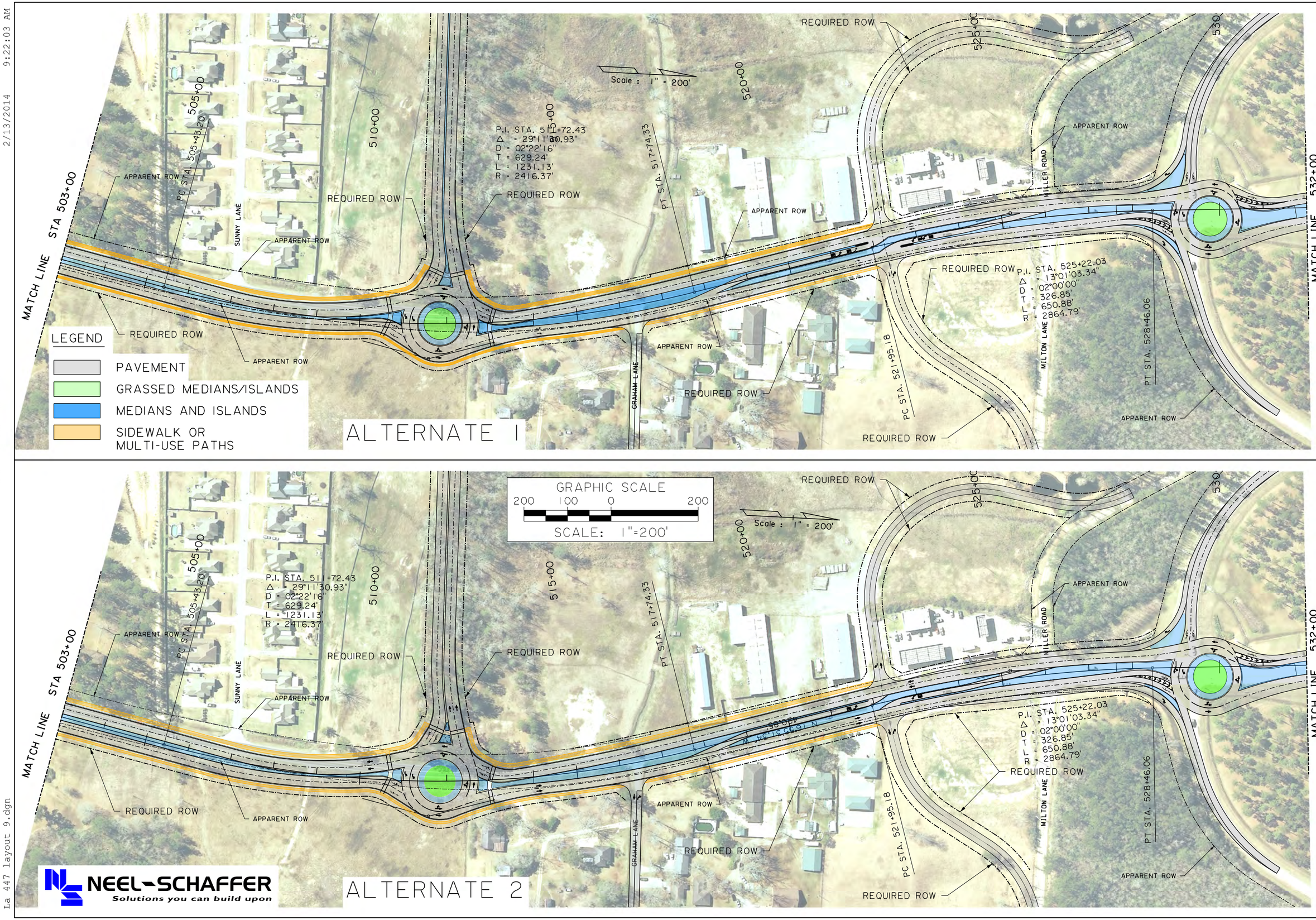
STATE PROJECT	S.P. NO. 440000065I T.O. NO. H.005734
DESIGNED / CHECKED	
DETAILED / CHECKED	
DATE / SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

BUDDY ELLIS RD. TO
BURGESS AVE.
ALT. 1/ ALT. 2

LA 447 CORRIDOR STUDY



LA 447 CORRIDOR STUDY

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La 447 layout 9.dgn

SHEET NUMBER PL-9

PARISH LIVINGSTON

FEDERAL PROJECT H.005734

STATE PROJECT S.P. NO. 4400000651 T.O. NO. H.005734

DESIGNED CHECKED

DETAILED CHECKED

DATE SHEET

NO. DATE REVISION DESCRIPTION BY

BUDDY ELLIS RD. TO BURGESS AVE. ALT. 1/ ALT. 2

LA 447 CORRIDOR STUDY

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

LA 447 CORRIDOR STUDY

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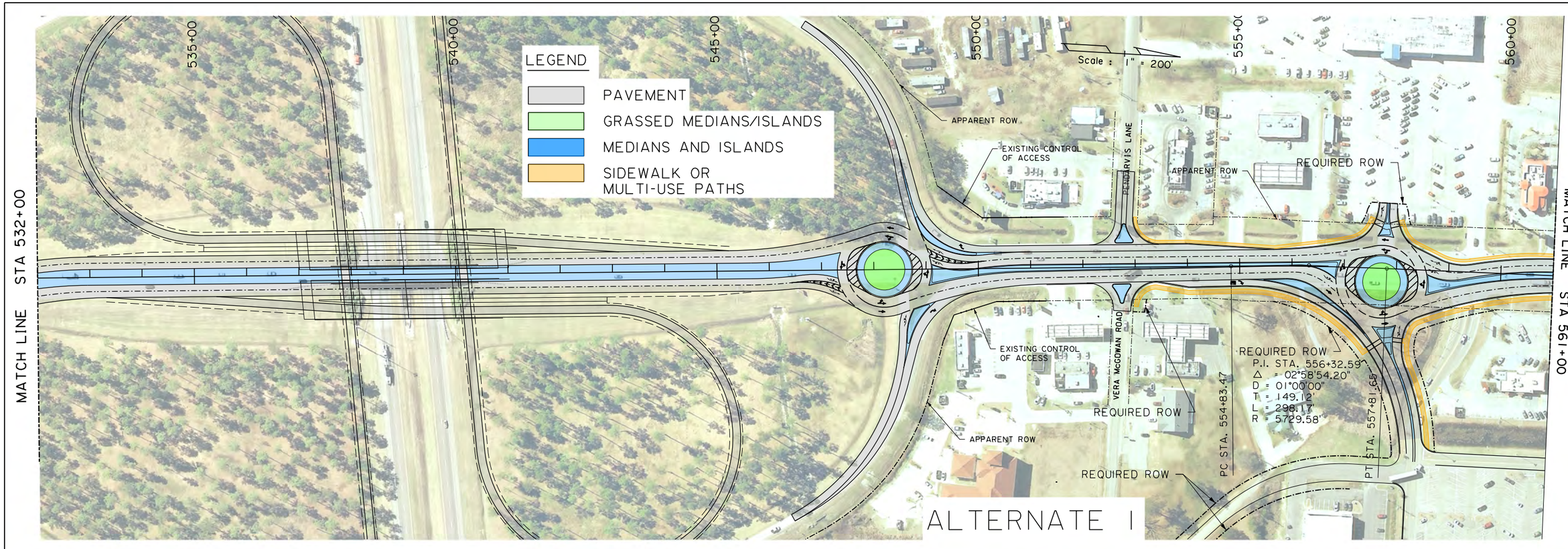

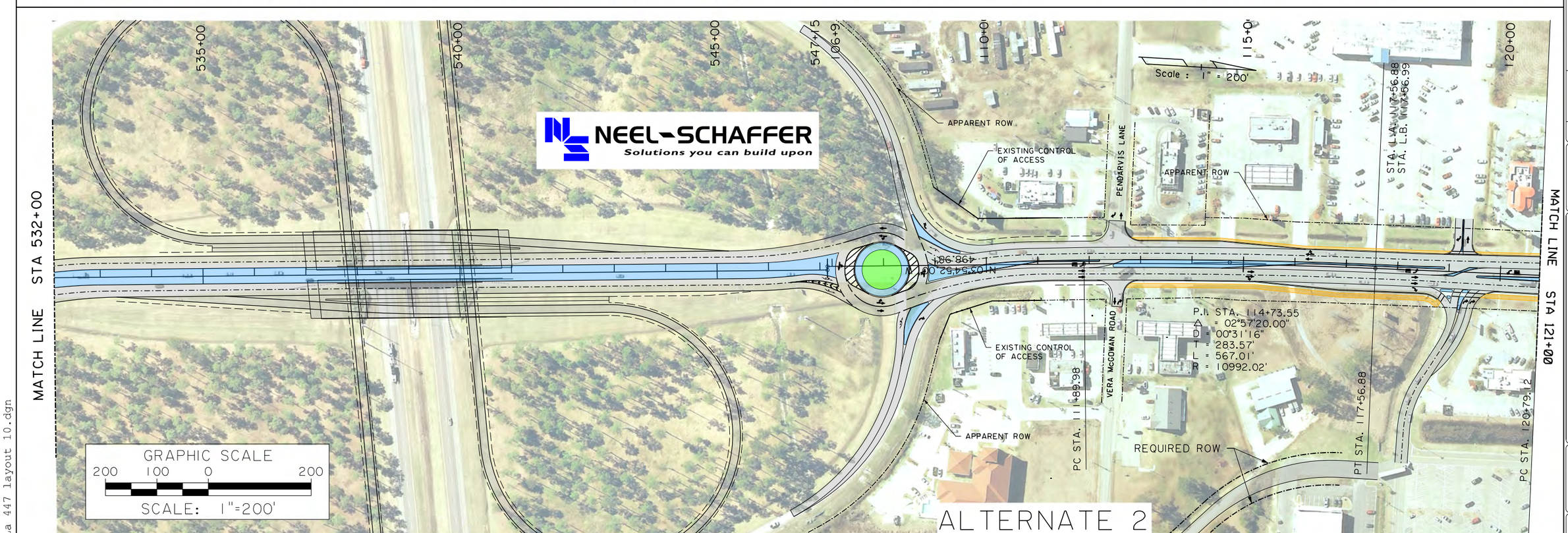

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FEDERAL PROJECT	H.005734
STATE PROJECT	S.P. NO. 440000065 I T.O. NO. H.005734
DESIGNED / CHECKED	
DETAILED / CHECKED	
DATE / SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

STATE OF LOUISIANA

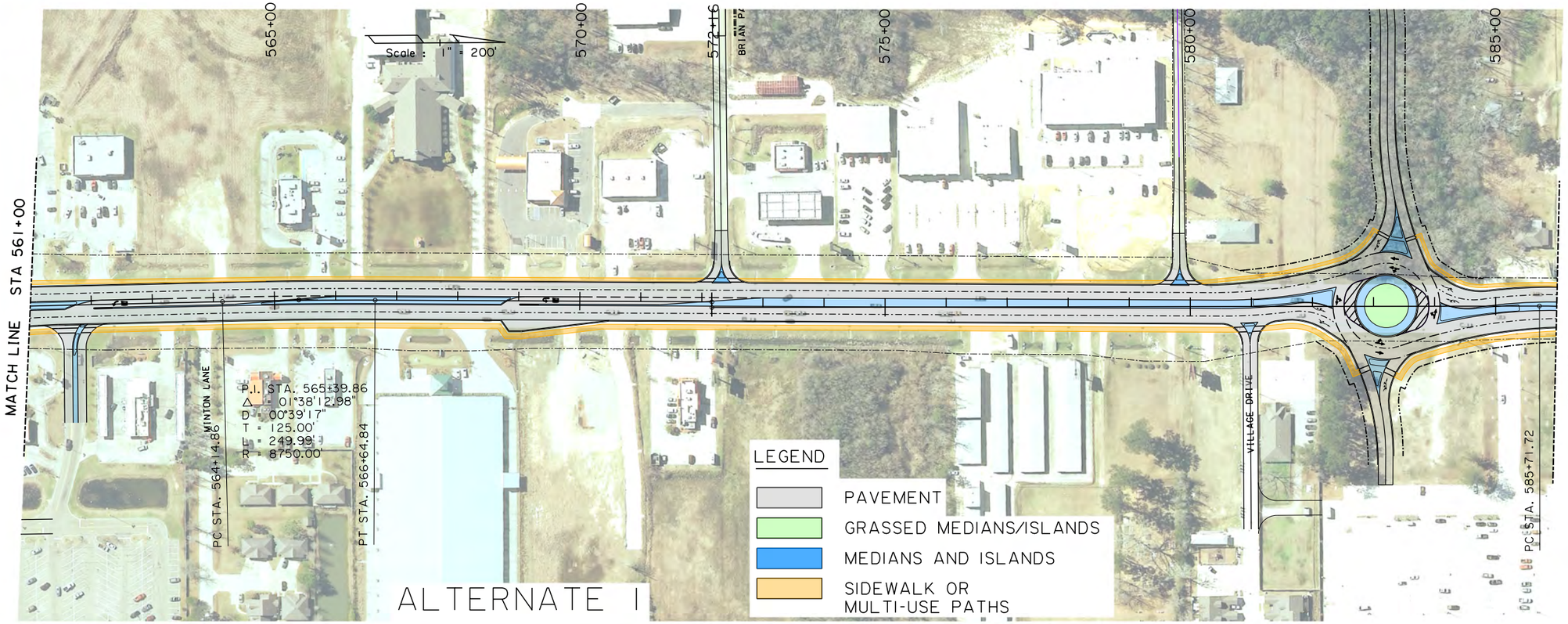
BUDDY ELLIS RD. TO BURGESS AVE.
ALT. 1/ ALT. 2

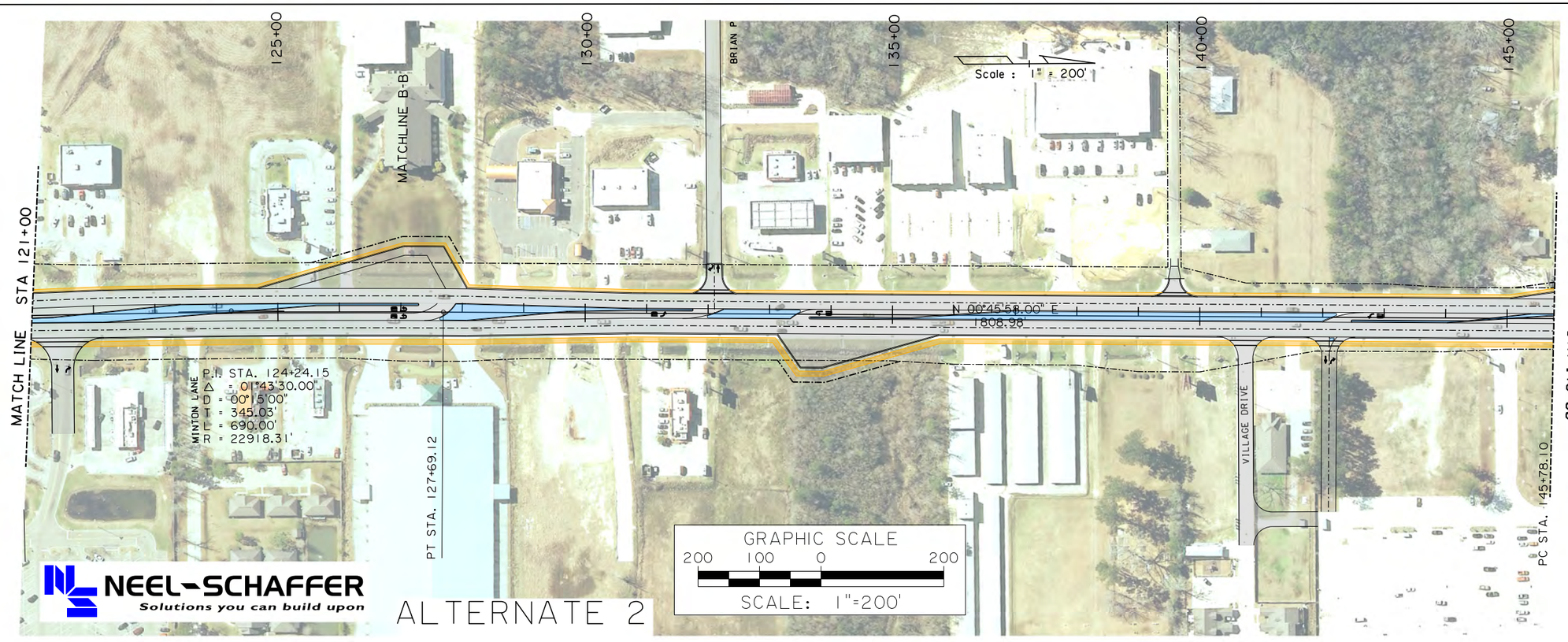
LA 447 CORRIDOR STUDY

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

la 447 layout 10.dgn

LA 447 CORRIDOR STUDY





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STATE PROJECT	S.P. NO. 440000065 I T.O. NO. H.005734
DESIGNED	
CHECKED	
DETAILED	
CHECKED	
DATE	
SHEET	

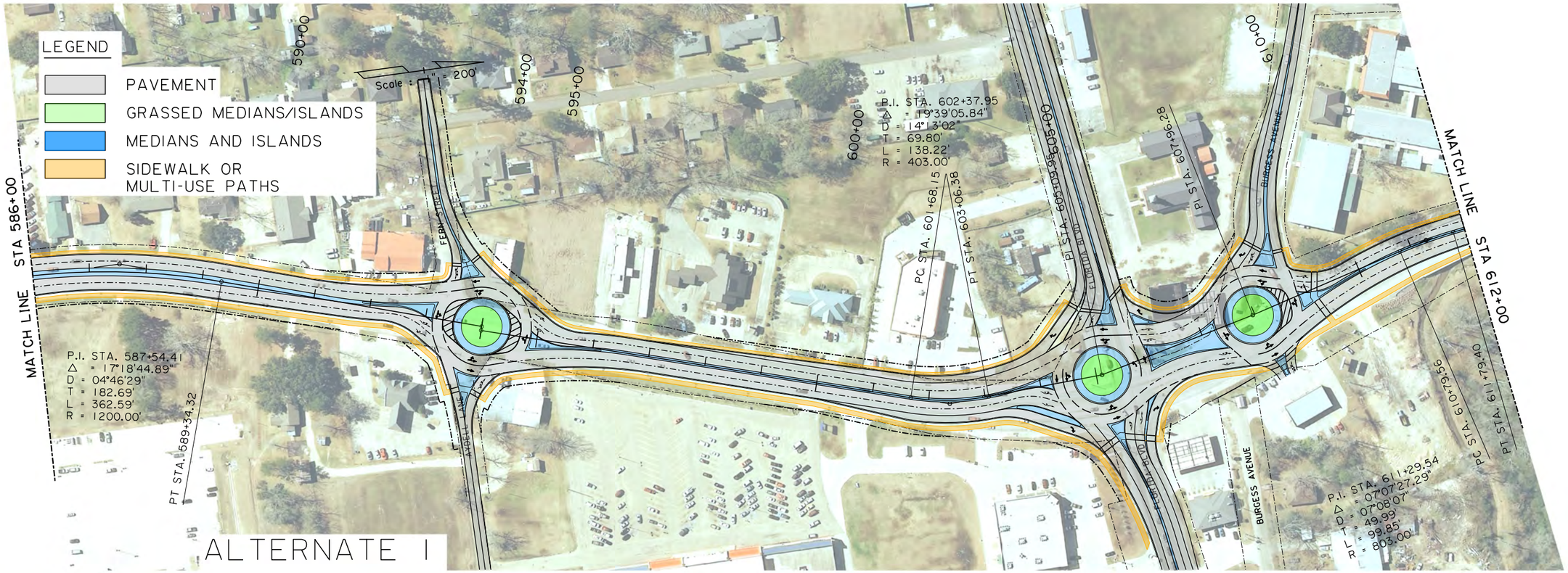
NO.	DATE	REVISION DESCRIPTION	BY

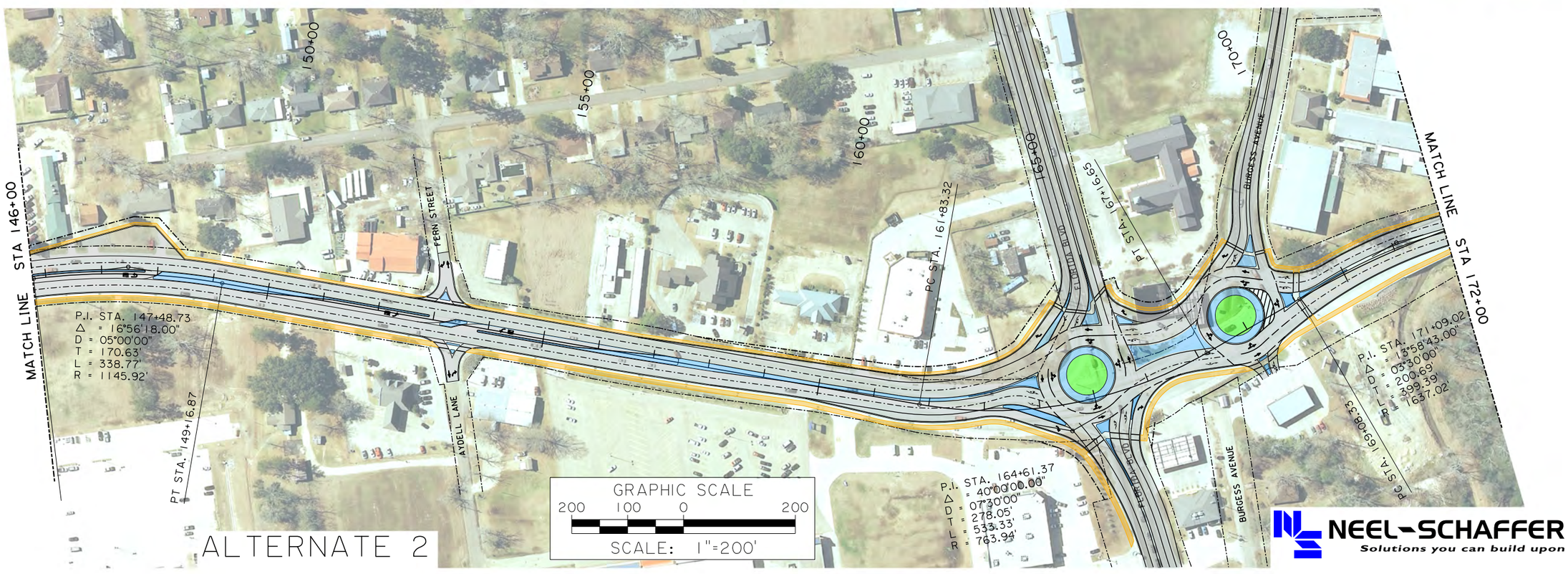
STATE OF LOUISIANA

LA 16 TO BUDDY ELLIS RD.
ALT. 1/ ALT.2

LA 447 CORRIDOR STUDY

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT





NEEL-SCHAFFER
Solutions you can build upon

SHEET NUMBER	PL-12
PARISH	LIVINGSTON
FEDERAL PROJECT	H.005734
STATE PROJECT	S.P. NO. 440000065 I T.O. NO. H.005734
DESIGNED / CHECKED	
DETAILED / CHECKED	
DATE / SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

BUDDY ELLIS RD. TO
BURGESS AVE.
ALT. 1/ ALT. 2

LA 447 CORRIDOR STUDY

ALTERNATE 1

LEGEND

- PAVEMENT
- GRASSED MEDIANS/ISLANDS
- MEDIANS AND ISLANDS
- SIDEWALK OR MULTI-USE PATHS

ALTERNATE 2

GRAPHIC SCALE
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SCALE: 1"=200'

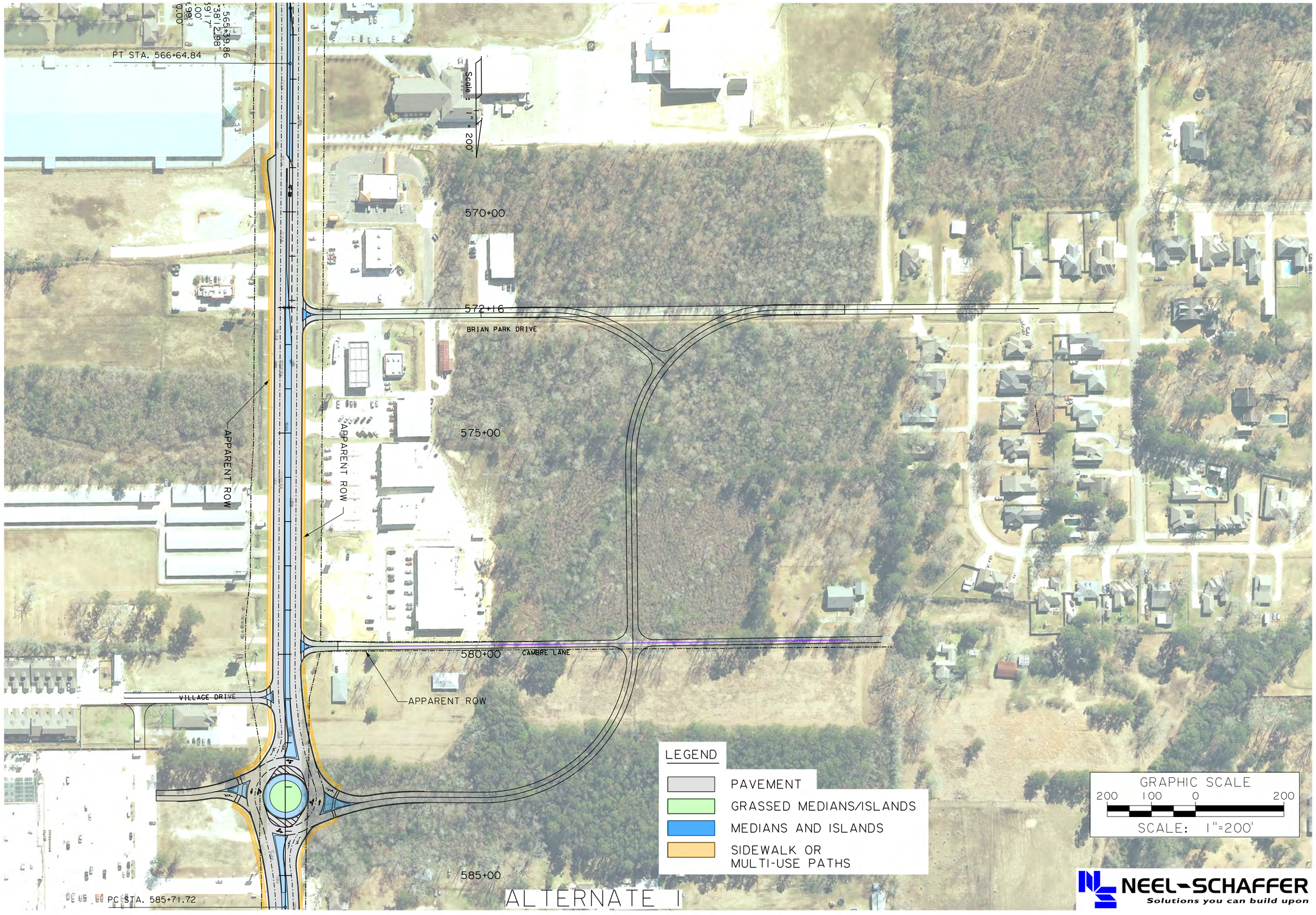
NEEL-SCHAFFER
Solutions you can build upon

BUDDY ELLIS RD. TO BURGESS AVE.
ALT. 1/ ALT. 2
LA 447 CORRIDOR STUDY

SHEET NUMBER	PL-13
PARISH	LIVINGSTON
FEDERAL PROJECT	H.005734
STATE PROJECT	S.P. NO. 440000065 I T.O. NO. H.005734
DESIGNED	
CHECKED	
DETAILED	
CHECKED	
DATE	
SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

LA 447 CORRIDOR STUDY



ALTERNATE 1

SHEET NUMBER	PL-14
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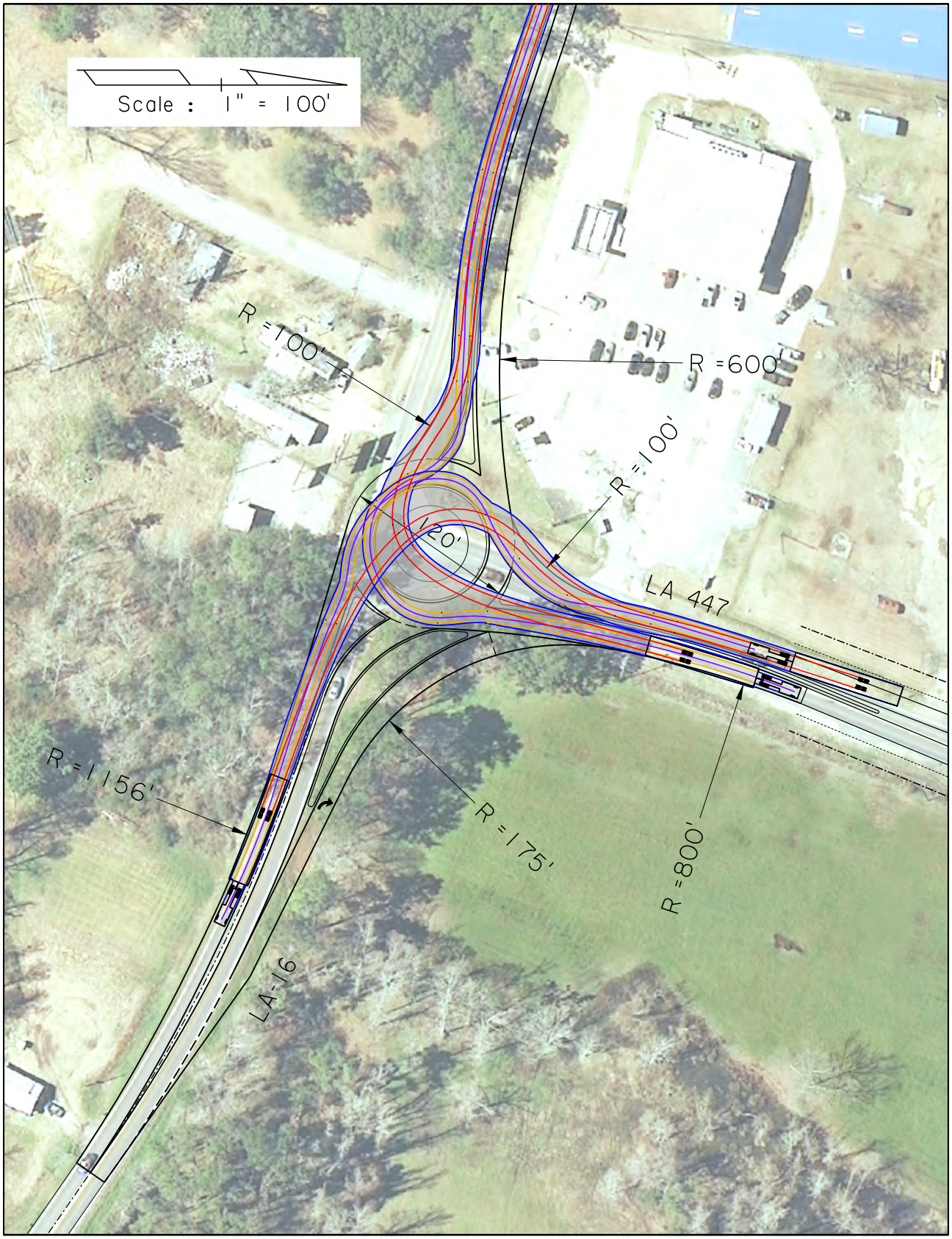
STATE PROJECT	S.P. NO. 440000065 I T.O. NO. H.005734
DESIGNED / CHECKED	
DETAILED / CHECKED	
DATE / SHEET	

NO.	DATE	REVISION DESCRIPTION	BY

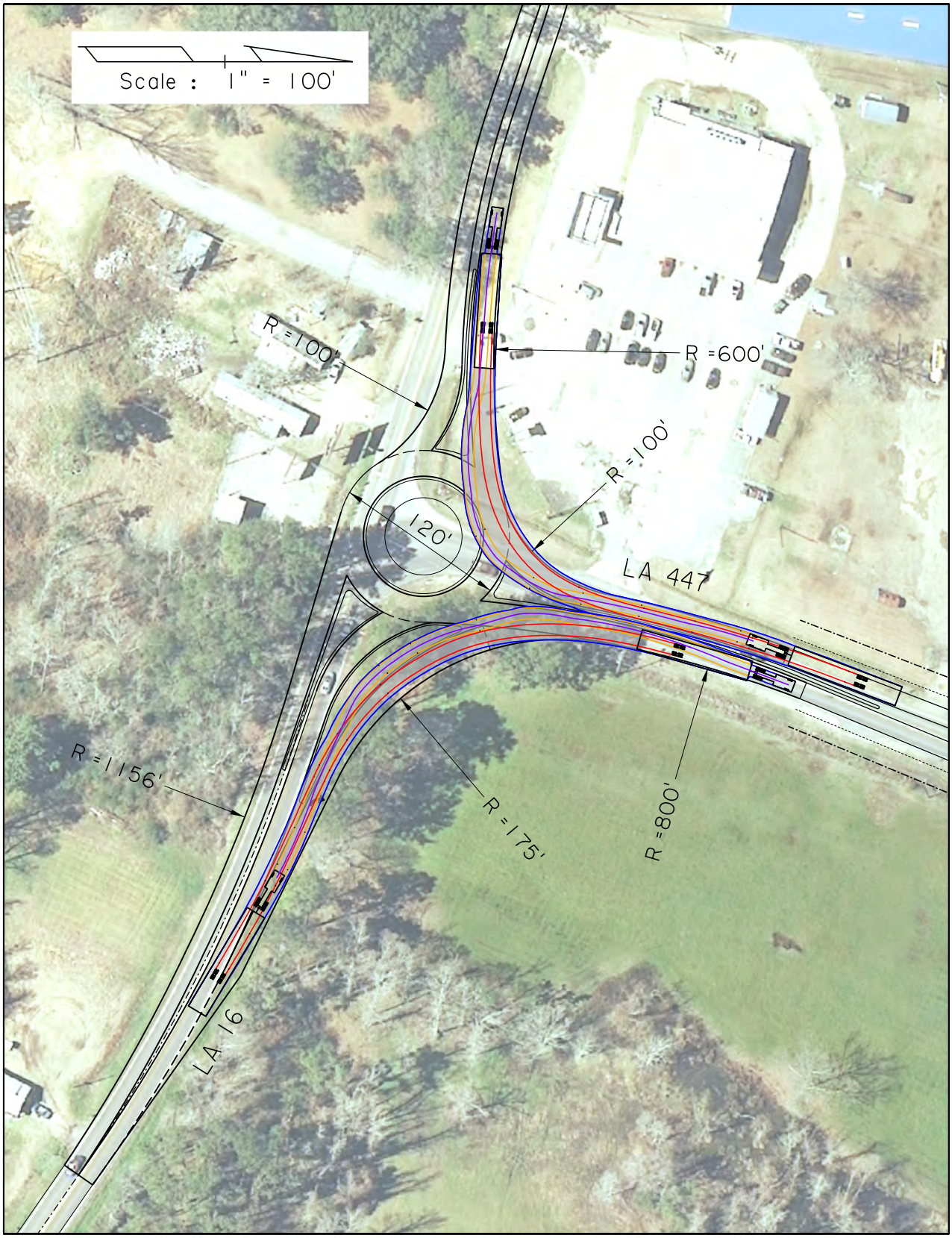
BUDDY ELLIS RD. TO BURGESS AVE.
ALT. 1

LA 447 CORRIDOR STUDY

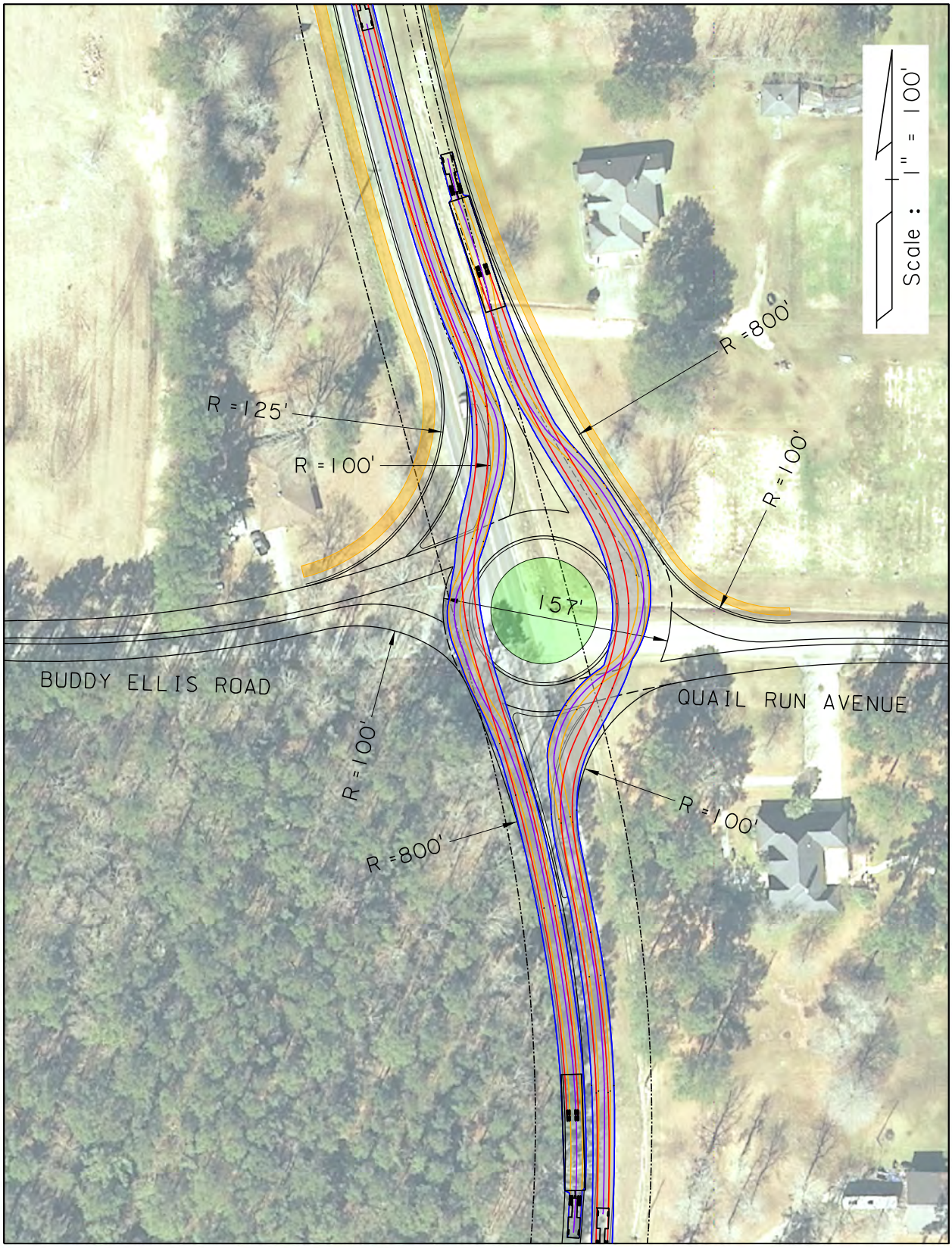
AUTO-TURN TEMPLATES



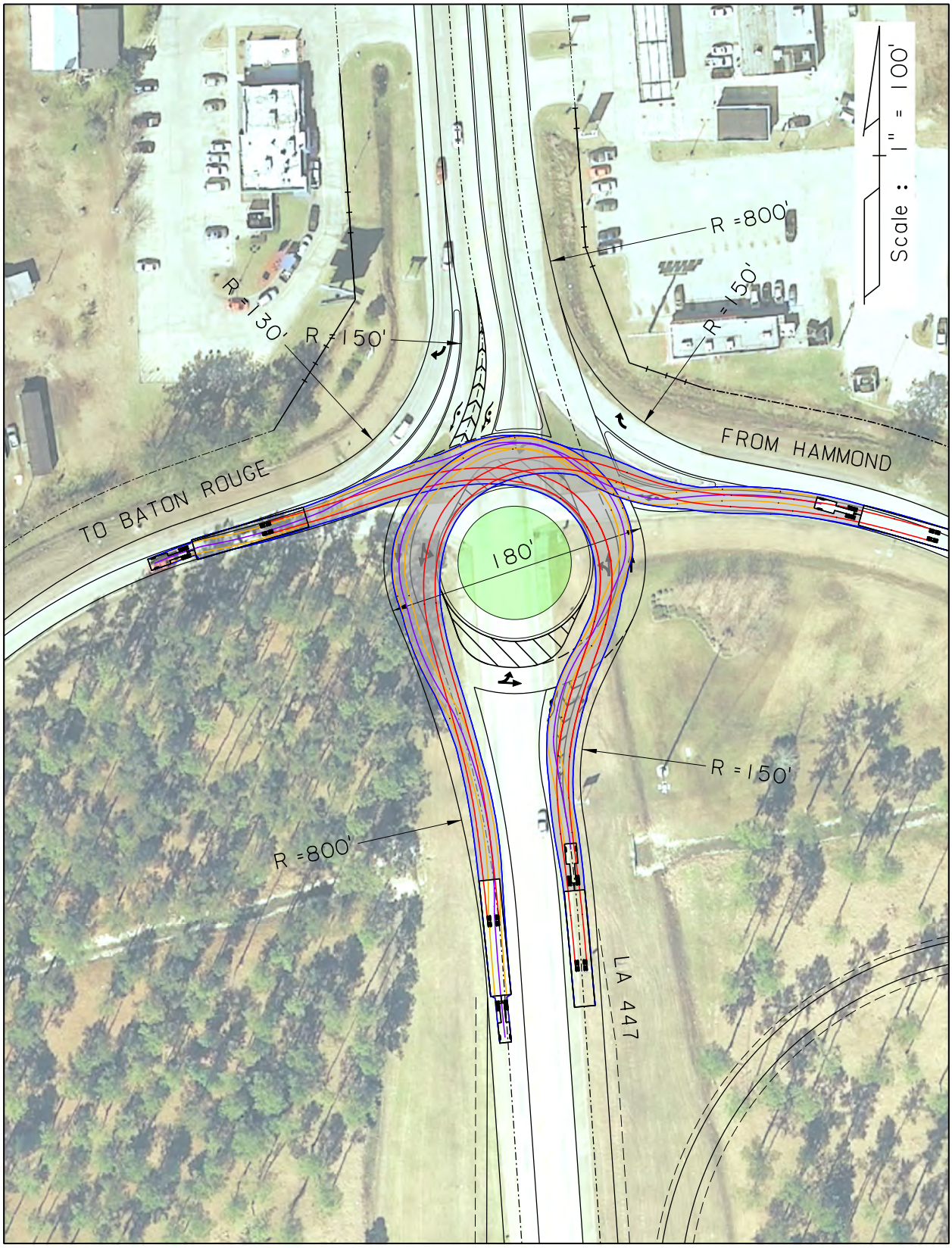
LA 447 CORRIDOR STUDY ROUNDABOUT MH-80 MOVEMENTS	DESIGNED CHECKED	D.T.T. P.M.	PARISH	LIVINGSTON
	DETAILED CHECKED	P.W.A. D.T.T.	FEDERAL PROJECT	NO.
LA-16 AT LA 447 LEFT TURN MOVEMENTS	DATE	2-10-14	STATE PROJECT	NO.



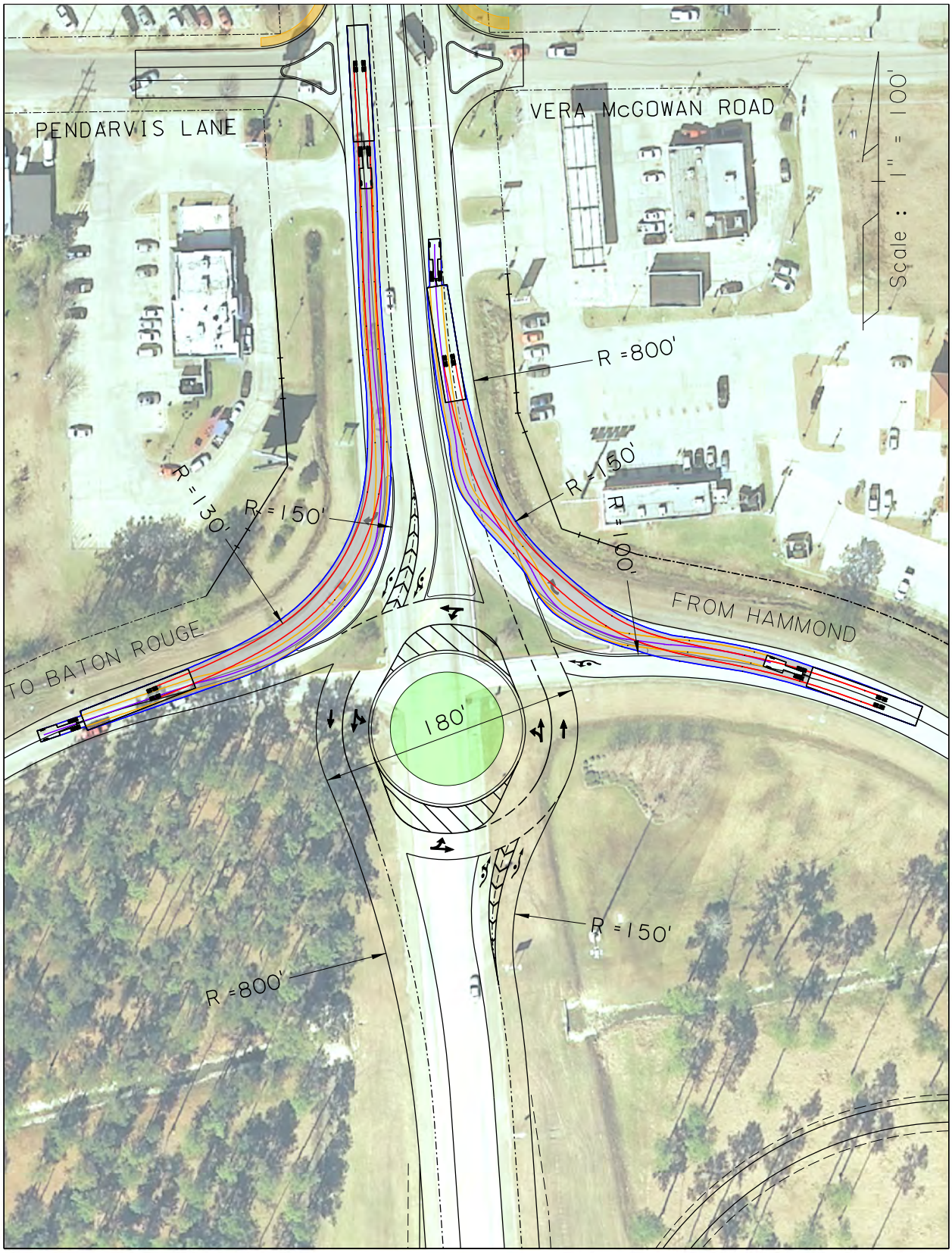
LA 447 CORRIDOR STUDY ROUNDABOUT MH-80 MOVEMENTS	DESIGNED CHECKED	D.T.T. P.M.	PARISH	LIVINGSTON
	DETAILED CHECKED	P.W.A. D.T.T.	FEDERAL PROJECT	NO.
US-190 AT LA 447 RIGHT TURN MOVEMENTS	DATE	2-10-14	STATE PROJECT	NO.



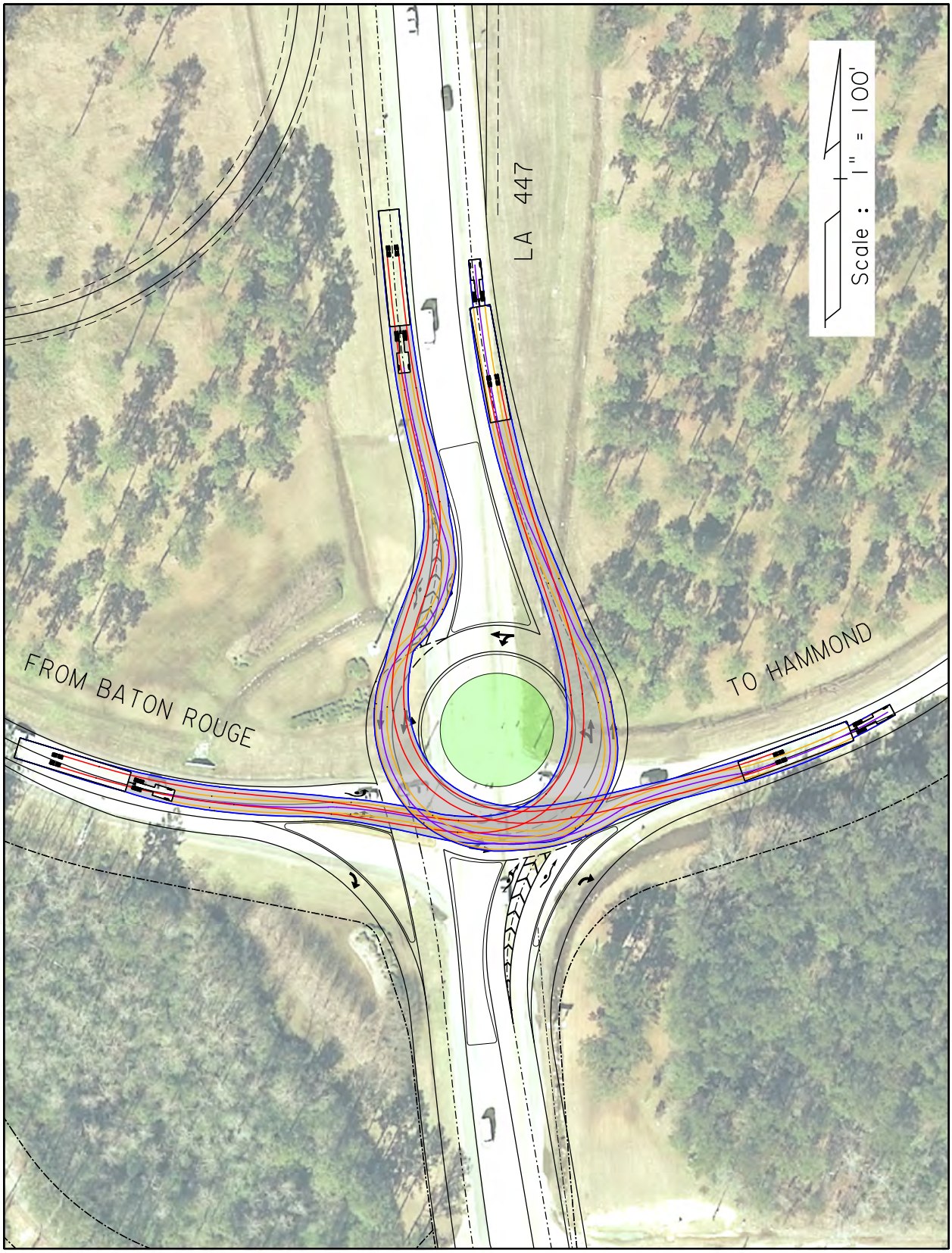
LA 447 CORRIDOR STUDY ROUNDABOUT MH-80 MOVEMENTS	DESIGNED CHECKED	D.T.T. P.M.	PARISH	LIVINGSTON
	DETAILED CHECKED	P.W.A. D.T.T.	FEDERAL PROJECT	NO.
LA 447 AT BUDDY ELLIS THRU MOVEMENTS	DATE	2-10-14	STATE PROJECT	NO.



LA 447 CORRIDOR STUDY ROUNDABOUT MH-80 MOVEMENTS	DESIGNED CHECKED	D.T.T. P.M.	PARISH	LIVINGSTON
	DETAILED CHECKED	P.W.A. D.T.T.	FEDERAL PROJECT	NO.
LA 447 LEFT MOVEMENTS AT I-12 WESTBOUND RAMP	DATE	2-10-14	STATE PROJECT	NO.



LA 447 CORRIDOR STUDY ROUNDABOUT MH-80 MOVEMENTS	DESIGNED CHECKED	D.T.T. P.M.	PARISH	LIVINGSTON
	DETAILED CHECKED	P.W.A. D.T.T.	FEDERAL PROJECT	NO.
LA 447 RIGHT MOVEMENTS AT I-12 WESTBOUND RAMP	DATE	2-10-14	STATE PROJECT	NO.

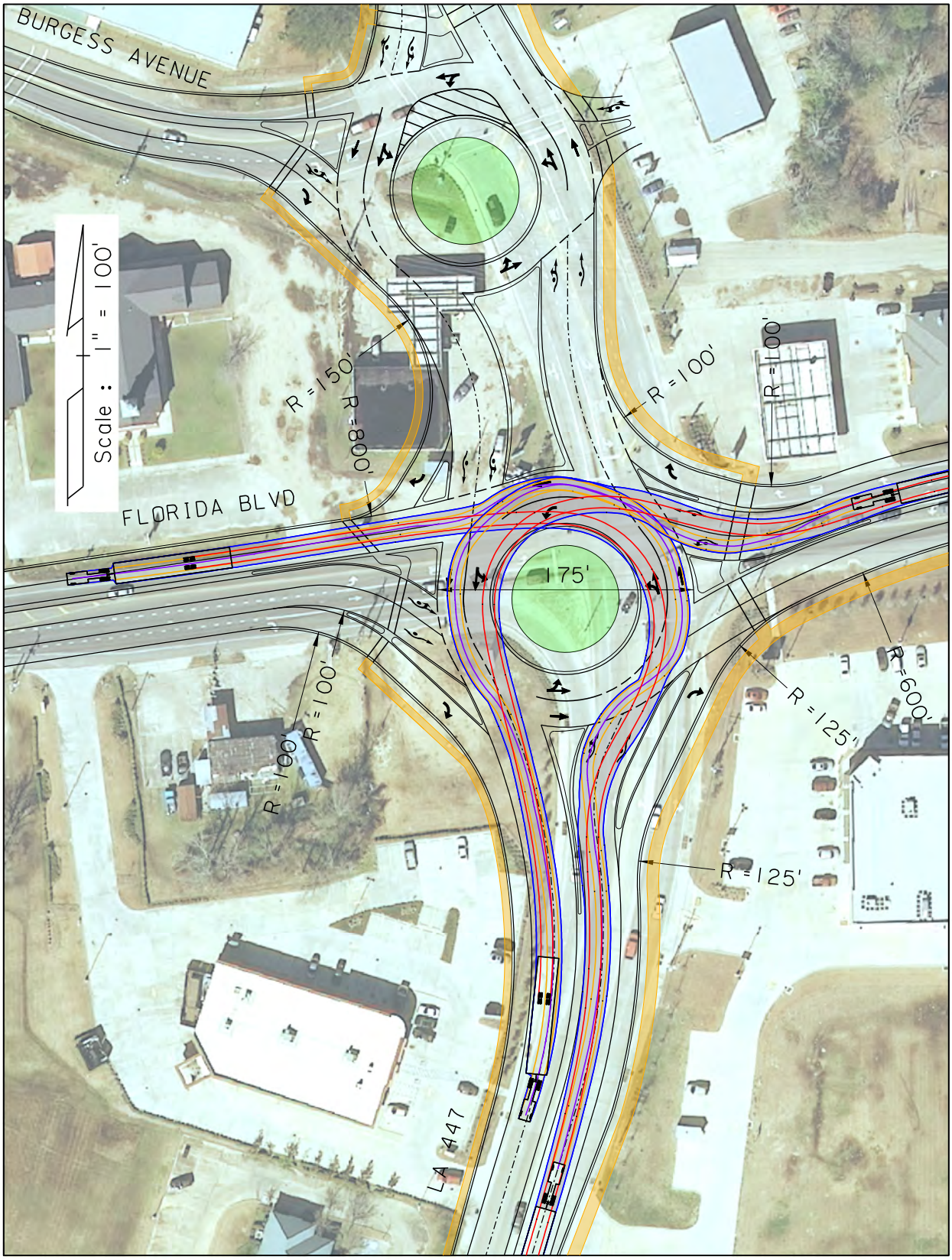


LA 447 CORRIDOR STUDY
ROUNDABOUT MH-80 MOVEMENTS

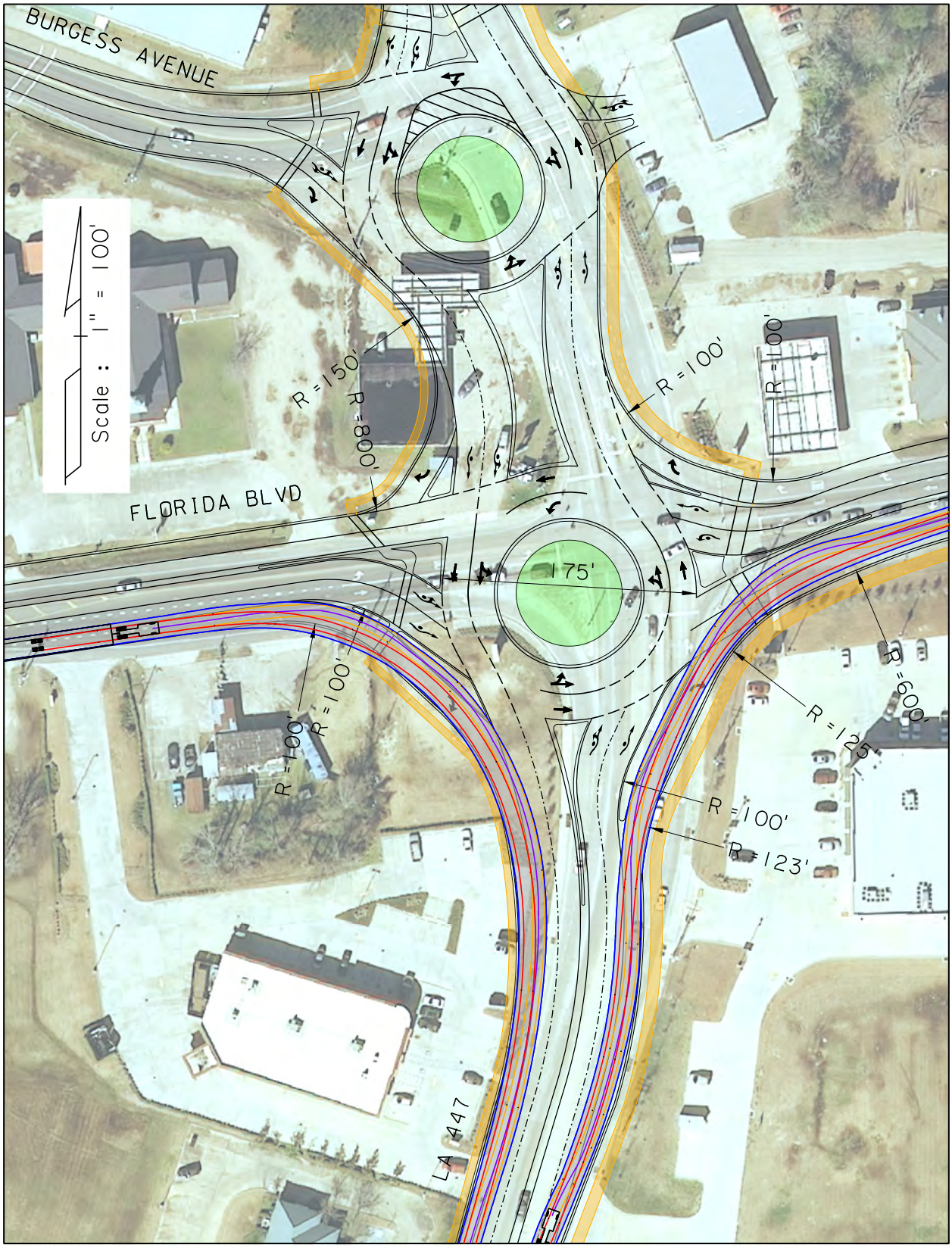
LA 447 LEFT MOVEMENTS AT I-12 EASTBOUND RAMP

DESIGNED CHECKED	D.T.T. P.M.	PARISH	LIVINGSTON
DETAILED CHECKED	P.W.A. D.T.T.	FEDERAL PROJECT	NO.
DATE	2-10-14	STATE PROJECT	NO.

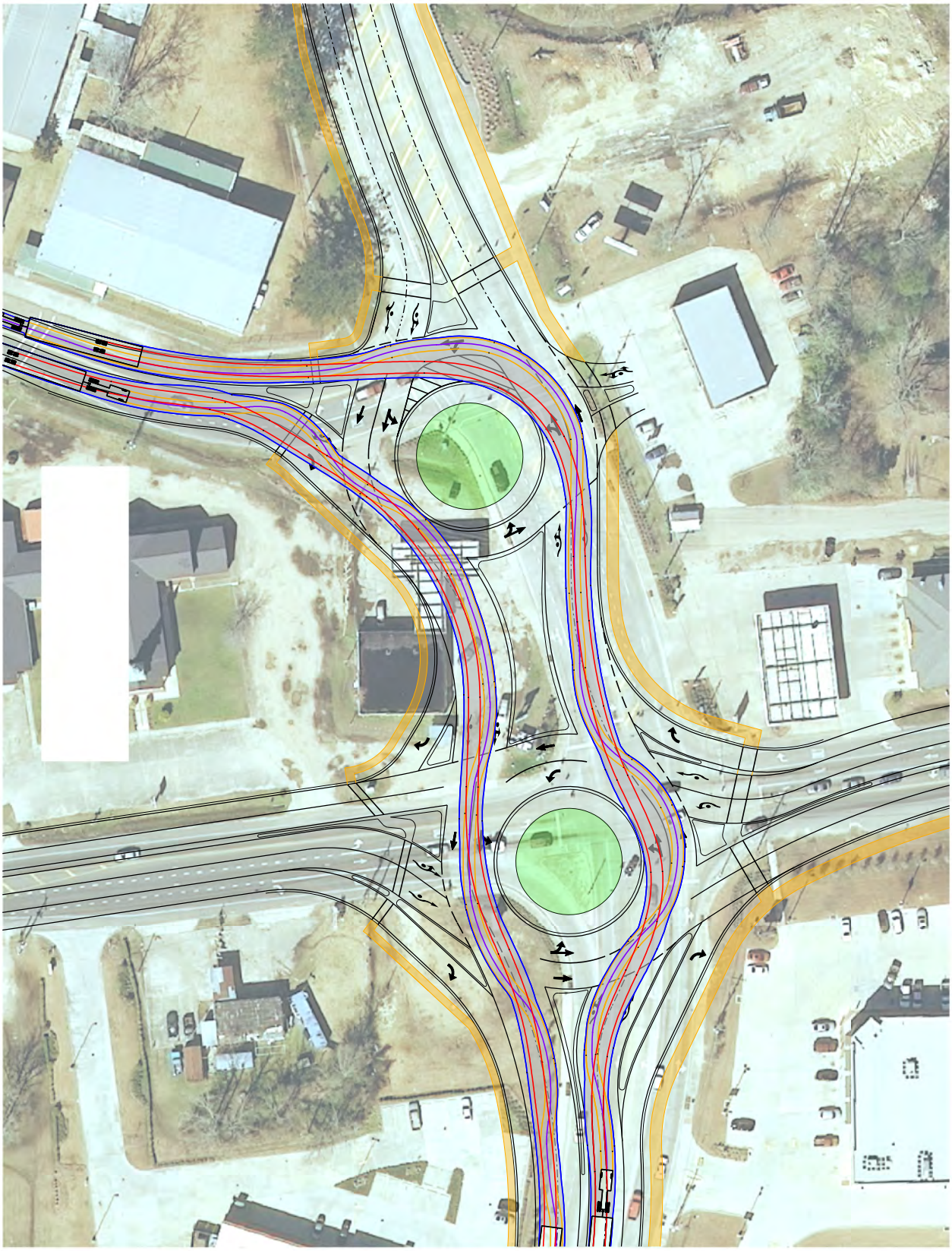
LA 447 CORRIDOR STUDY ROUNDABOUT MH-80 MOVEMENTS	DESIGNED CHECKED	D.T.T. P.M.	PARISH	LIVINGSTON
	DETAILED CHECKED	P.W.A. D.T.T.	FEDERAL PROJECT	NO.
LA 447 RIGHT MOVEMENTS AT I-12 EASTBOUND RAMP	DATE	2-10-14	STATE PROJECT	NO.



LA 447 CORRIDOR STUDY ROUNDABOUT MH-80 MOVEMENTS	DESIGNED CHECKED	D.T.T. P.M.	PARISH	LIVINGSTON
	DETAILED CHECKED	P.W.A. D.T.T.	FEDERAL PROJECT	NO.
LA 447 LEFT MOVEMENTS AT US 190	DATE	2-10-14	STATE PROJECT	NO.



LA 447 CORRIDOR STUDY ROUNDABOUT MH-80 MOVEMENTS	DESIGNED CHECKED	D.T.T. P.M.	PARISH	LIVINGSTON
	DETAILED CHECKED	P.W.A. D.T.T.	FEDERAL PROJECT	NO.
LA 447 RIGHT MOVEMENTS AT US 190	DATE	2-10-14	STATE PROJECT	NO.



LA 447 CORRIDOR STUDY ROUNDABOUT MH-80 MOVEMENTS	DESIGNED CHECKED	D.T.T. P.M.	PARISH	LIVINGSTON
	DETAILED CHECKED	P.W.A. D.T.T.	FEDERAL PROJECT	NO.
LA 447 TURNING MOVEMENTS AT BURGESS AVE.	DATE	2-10-14	STATE PROJECT	NO.

COST ESTIMATES

S.P. NO. 4400000651
T.O. NO. H.005734

LA 447 CORRIDOR STUDY
ALTERNATIVE 1 - ROUNDABOUT FULL BUILD CONCEPT
WALKER, LA
LIVINGSTON PARISH, LOUISIANA

Preliminary Estimated Opinion of Probable Construction Cost

LA 447 FROM BURGESS AVE. TO NORTH SIDE INTERCHANGE ROUNDABOUT)					
Description	Unit	Unit Price	Quantity	Amount	Remarks
Clearing and Grubbing	LS	$100,000.00	1	$100,000.00	
Removal of Structures and Obstructions	LS	$200,000.00	1	$200,000.00	
Removal of Existing Pavement	SY	$9.00	36,234	$326,102.96	
Excavation and Embankment	LS	$650,000.00	1	$650,000.00	
RAB Median	SY	$60.00	4,575	$274,470.48	
Median	SY	$60.00	3,501	$210,086.88	
Raised Islands	SY	$70.00	3,050	$213,499.15	
Truck Aprons	SY	$90.00	1,989	$179,031.51	
New Pavement	SY	$85.00	56,821	$4,829,779.69	
New Curb & Gutter	LF	$20.00	19,777	$395,535.47	
New Sidewalks/Multiuse Path	SY	$50.00	9,346	$467,280.75	
Drainage	LS	$850,000.00	1	$850,000.00	
Erosion Control	LS	$170,000.00	1	$170,000.00	
Pavement Markings	LS	$100,000.00	1	$100,000.00	
			Subtotal	**$8,965,787**	
			Mobilization (10% of Subtotal Cost)	$896,579	
			Traffic Control (2% of Subtotal Cost)	$179,316	
			Subtotal	**$10,041,681**	
			20% Contingencies	$2,008,336	
			Total Construction Cost	**$12,050,018**	
Right-of-Way Acquisition	LS		1	$4,000,000	
Utility Relocations	LS		1	$800,000	
			Total Cost	**$4,800,000**	
Environmental			(2% of Total Construction Cost)	$241,000	
Design Engineering			(8% of Total Construction Cost)	$964,001	
Construction Engineering & Inspection			(10% of Total Construction Cost)	$1,205,002	
Land Acquisition Services			(10% of Total Construction Cost)	$400,000	
			Total Implementation Cost	**$19,660,021**	

S.P. NO. 4400000651
T.O. NO. H.005734

LA 447 CORRIDOR STUDY
ALTERNATIVE 2 - LA 447 RCUT FULL BUILD CONCEPT
WALKER, LA
LIVINGSTON PARISH, LOUISIANA

Preliminary Estimated Opinion of
Probable Construction Cost

LA 447 FROM BURGESS AVE. TO NORTH SIDE INTERCHANGE ROUNDABOUT					
Description	Unit	Unit Price	Quantity	Amount	Remarks
Clearing and Grubbing	LS	$50,000.00	1	$50,000.00	
Removal of Structures and Obstructions	LS	$100,000.00	1	$100,000.00	
Removal of Existing Pavement	SY	$9.00	21,225	$191,026.30	
Excavation and Embankment	LS	$100,000.00	1	$100,000.00	
RAB Median	SY	$20.00	930	$18,601.72	
Raised Islands	SY	$70.00	5,755	$402,842.14	
Truck Aprons	SY	$90.00	781	$70,246.01	
New Pavement	SY	$85.00	38,634	$3,283,859.89	
New Curb & Gutter	LF	$20.00	16,579	$331,587.61	
New Sidewalks/Multiuse Path	SY	$35.00	8,601	$301,039.20	
Drainage	LS	$150,000.00	1	$150,000.00	
Erosion Control	LS	$20,000.00	1	$20,000.00	
Pavement Markings	LS	$100,000.00	1	$100,000.00	
			Subtotal	**$5,119,203**	
			Mobilization (10% of Subtotal Cost)	$511,920	
			Traffic Control (5% of Subtotal Cost)	$255,960	
			Subtotal	**$5,887,083**	
			20% Contingencies	$1,177,417	
			Total Construction Cost	**$7,064,500**	
Right-of-Way Acquisition	LS		1	$2,000,000	
Utility Relocations	LS		1	$500,000	
			Total Cost	**$2,500,000**	
Environmental			(2% of Total Construction Cost)	$141,290	
Design Engineering			(8% of Total Construction Cost)	$565,160	
Construction Engineering & Inspection			(10% of Total Construction Cost)	$706,450	
Land Acquisition Services			(10% of Total Construction Cost)	$200,000	
			Total Implementation Cost	**$11,177,400**	

S.P. NO. 4400000651
T.O. NO. H.005734

LA 447 CORRIDOR STUDY
ROUNDABOUT/PARTIAL CLOVER LEAF "A" INTERCHANGE CONCEPT
WALKER, LA
LIVINGSTON PARISH, LOUISIANA

Preliminary Estimated Opinion of
Probable Construction Cost

ROUNDABOUTS/PARTIAL CLOVERLEAF "A" INTERCHANGE IMPROVEMENTS					
Description	Unit	Unit Price	Quantity	Amount	Remarks
Clearing and Grubbing	LS	$350,000.00	1	$350,000.00	
Removal of Structures and Obstructions	LS	$250,000.00	1	$250,000.00	
Removal of Existing Bridge	EA	$50,000.00	1	$50,000.00	
Removal of Existing Pavement	SY	$9.50	55,269	$525,056.56	
Excavation	CY	$8.00	11,000	$88,000.00	
Embankment	CY	$18.00	85,871	$1,545,678.00	
Bridge Structure (LA 447 over I-12)	SY	$650.00	6,040	$3,926,000.00	Cost includes superstructure and substructure
Concrete Approach Slab	SY	$225.00	649	$146,025.00	
12" PCC Pavement (Travel Lanes)	SY	$55.00	69,890	$3,843,950.00	Assumed same pavement section for all road work.
9" PCC Pavement (Shoulder)	SY	$40.00	20,683	$827,320.00	Assumed same pavement section for all road work.
12" Stone Base		$35.00	96,290	$3,370,150.00	Assumed same pavement section for all road work.
Drainage	LS	$750,000.00	1	$750,000.00	
Erosion Control	LS	$150,000.00	1	$150,000.00	Cost includes all BMP materials for entire project limits
Pavement Markings	LS	$100,000.00	1	$100,000.00	Assumed pavement markings only necessary in areas of actual work within project areas. No restriping of existing roads.
			Subtotal	**$15,922,180**	
			Mobilization (8% of Subtotal Cost)	$1,273,774	
			Traffic Control (5% of Subtotal Cost)	$796,109	
			Subtotal	**$17,992,063**	
			25% Contingencies	$4,498,016	
			Total Construction Cost	**$22,490,079**	
Right-of-Way Acquisition	LS		1	$2,500,000	
Utility Relocations	LS		1	$350,000	
			Total Cost	**$2,850,000**	
Environmental			(2% of Total Construction Cost)	$449,802	
Design Engineering			(8% of Total Construction Cost)	$1,799,206	
Construction Engineering & Inspection			(10% of Total Construction Cost)	$2,249,008	
Land Acquisition Services			(10% of Total Construction Cost)	$250,000	
			Total Implementation Cost	**$30,088,094**	

S.P. NO. 4400000651
T.O. NO. H.005734

LA 447 CORRIDOR STUDY
ALTERNATIVE 1 / ALTERNATIVE 2 CONCEPTS
WALKER, LA
LIVINGSTON PARISH, LOUISIANA

Preliminary Estimated Opinion of Probable Construction Cost

LA 447 FROM SOUTH SIDE INTERCHANGE ROUNDABOUT TO BUDDY ELLIS					
Description	Unit	Unit Price	Quantity	Amount	Remarks
Clearing and Grubbing	LS	$1,000,000.00	1	$1,000,000.00	
Removal of Structures and Obstructions	LS	$200,000.00	1	$200,000.00	
Removal of Existing Pavement	SY	$9.00	12,633	$113,700.42	
Excavation and Embankment	LS	$800,000.00	1	$800,000.00	
RAB Median	SY	$60.00	930	$55,805.40	
Median	SY	$60.00	5,708	$342,472.49	
Raised Islands	SY	$70.00	1,529	$107,053.10	
Truck Aprons	SY	$90.00	781	$70,245.90	
New Pavement	SY	$85.00	39,082	$3,321,993.80	
New Curb & Gutter	LF	$20.00	51,911	$1,038,216.60	
New Sidewalks/Multiuse Path	SY	$35.00	6,045	$211,569.05	
Drainage	LS	$1,000,000.00	1	$1,000,000.00	
Erosion Control	LS	$200,000.00	1	$200,000.00	
Pavement Markings	LS	$75,000.00	1	$75,000.00	
			Subtotal	**$8,536,057**	
			Mobilization (10% of Subtotal Cost)	$853,606	
			Traffic Control (2% of Subtotal Cost)	$170,721	
			Subtotal	**$9,560,384**	
			20% Contingencies	$1,912,077	
			Total Construction Cost	**$11,472,460**	
Right-of-Way Acquisition	LS		1	$2,600,000	
Utility Relocations	LS		1	$600,000	
			Total Cost	**$3,200,000**	
Environmental			(2% of Total Construction Cost)	$229,449	
Design Engineering			(8% of Total Construction Cost)	$917,797	
Construction Engineering & Inspection			(10% of Total Construction Cost)	$1,147,246	
Land Acquisition Services			(10% of Total Construction Cost)	$260,000	
			Total Implementation Cost	**$17,226,952**	

S.P. NO. 4400000651
T.O. NO. H.005734

LA 447 CORRIDOR STUDY
ALTERNATIVE 1/ ALTERNATIVE 2 CONCEPTS
WALKER, LA
LIVINGSTON PARISH, LOUISIANA

Preliminary Estimated Opinion of Probable Construction Cost

LA 447 FROM BUDDY ELLIS TO LA 16					
Description	Unit	Unit Price	Quantity	Amount	Remarks
Clearing and Grubbing	LS	$800,000.00	1	$800,000.00	
Removal of Structures and Obstructions	LS	$200,000.00	1	$200,000.00	
Cold Planing Asphaltic Pavement	SY	$2.00	102,986	$205,971.18	
Excavation and Embankment	LS	$1,000,000.00	1	$1,000,000.00	
RAB Median	SY	$60.00	254	$15,268.14	
Median	SY	$60.00	5,708	$342,472.49	
Raised Islands	SY	$70.00	540	$37,792.07	
Truck Aprons	SY	$90.00	304	$27,363.27	
New Pavement	SY	$85.00	113,000	$9,605,000.00	
Bridge Structures	LS	1	1,500,000	$1,500,000.00	
Drainage	LS	$600,000.00	1	$600,000.00	
Erosion Control	LS	$100,000.00	1	$100,000.00	
Pavement Markings	LS	$200,000.00	1	$200,000.00	
			Subtotal	**$14,633,867**	
			Mobilization (7.5% of Subtotal Cost)	$1,097,540	
			Traffic Control (2% of Subtotal Cost)	$292,677	
			Subtotal	**$16,024,085**	
			20% Contingencies	$3,204,817	
			Total Construction Cost	**$19,228,901**	
Right-of-Way Acquisition	LS		1	$3,000,000	
Utility Relocations	LS		1	$2,000,000	
			Total Cost	**$5,000,000**	
Environmental			(2% of Total Construction Cost)	$384,578	
Design Engineering			(8% of Total Construction Cost)	$1,538,312	
Construction Engineering & Inspection			(10% of Total Construction Cost)	$1,922,890	
Land Acquisition Services			(10% of Total Construction Cost)	$300,000	
			Total Implementation Cost	**$28,374,682**	

BALANCED PEAK HOUR VOLUMES

2030 BALANCED VOLUMES

AM {NOON} (PM)

NEEL-SCHAFFER
Solutions you can build upon

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2030 BALANCED VOLUMES

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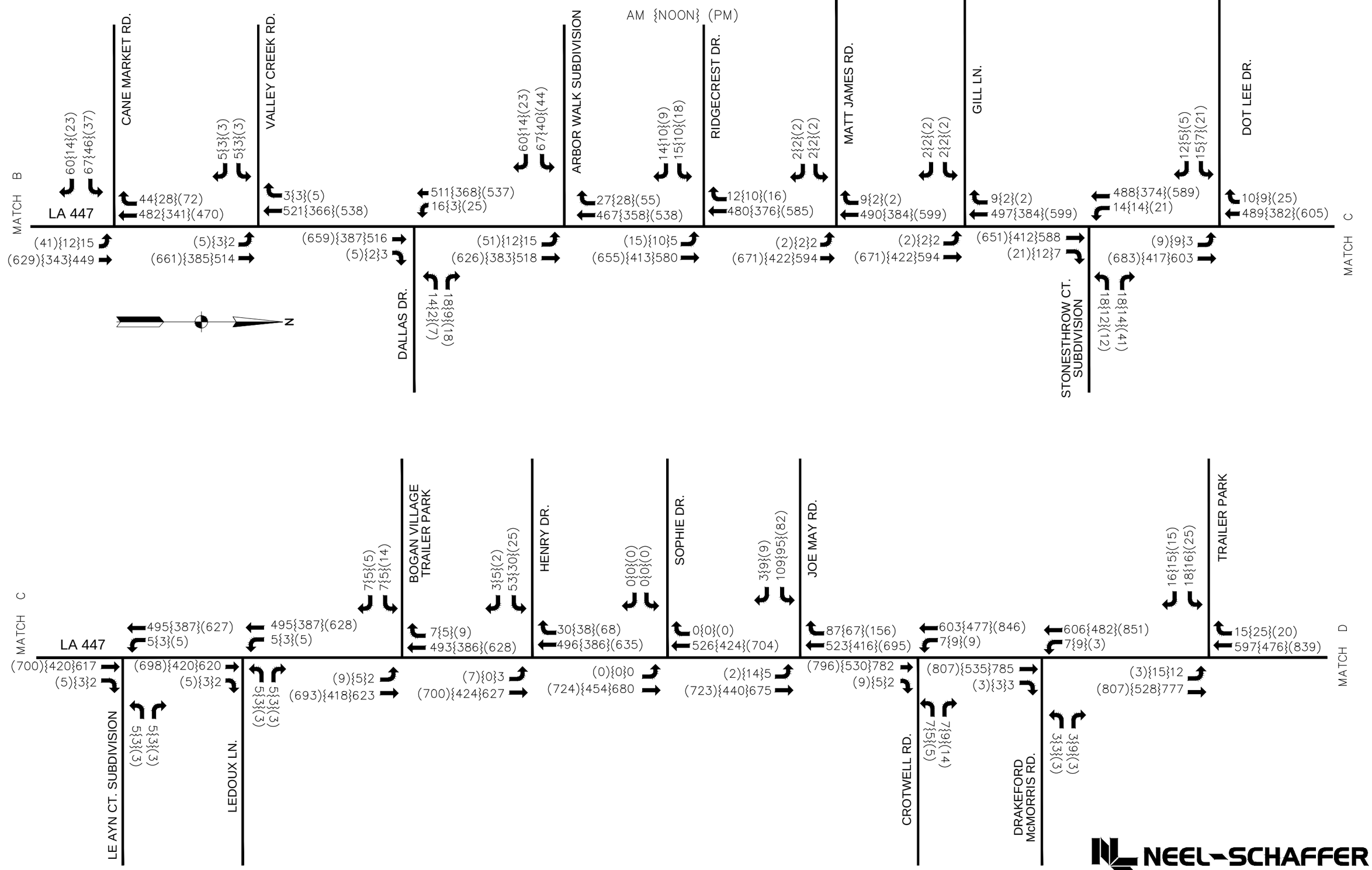

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Solutions you can build upon

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2030 BALANCED VOLUMES

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NEEL-SCHAFFER
Solutions you can build upon

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2030 BALANCED VOLUMES

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Solutions you can build upon

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2030 BALANCED VOLUMES

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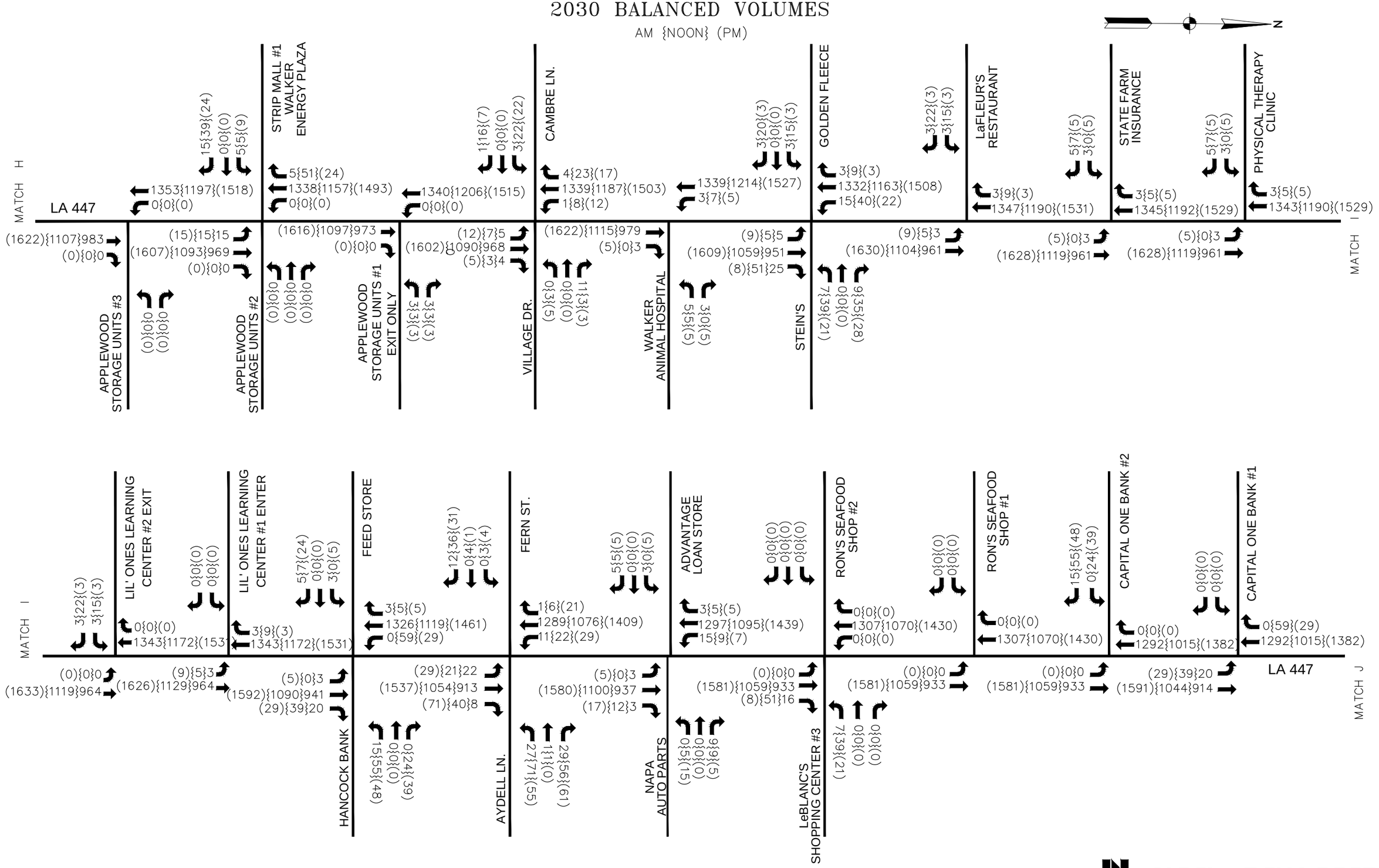

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Solutions you can build upon

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2030 BALANCED VOLUMES

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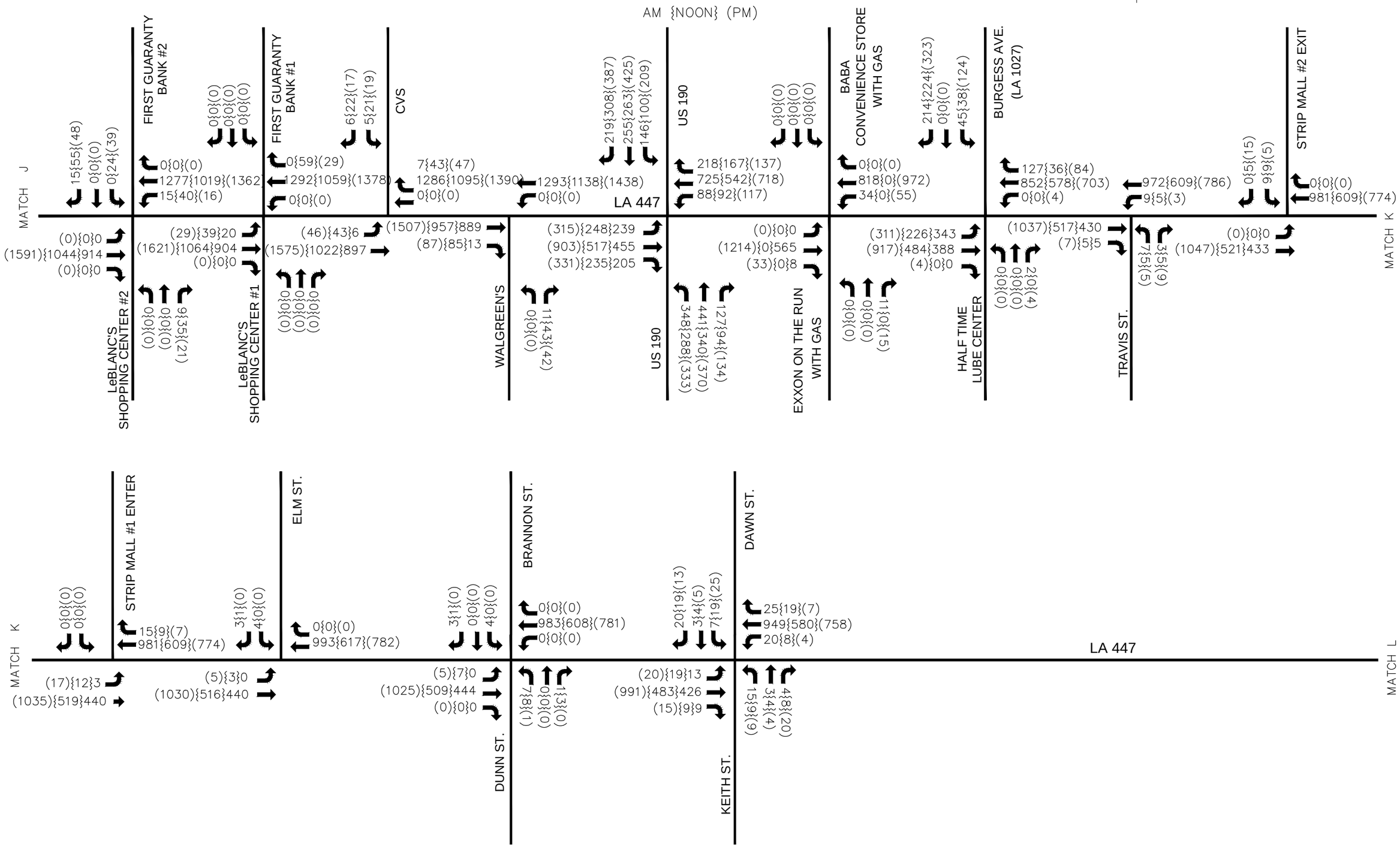

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Solutions you can build upon

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2015 BALANCED VOLUMES

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NEEL-SCHAFFER
Solutions you can build upon

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2015 BALANCED VOLUMES

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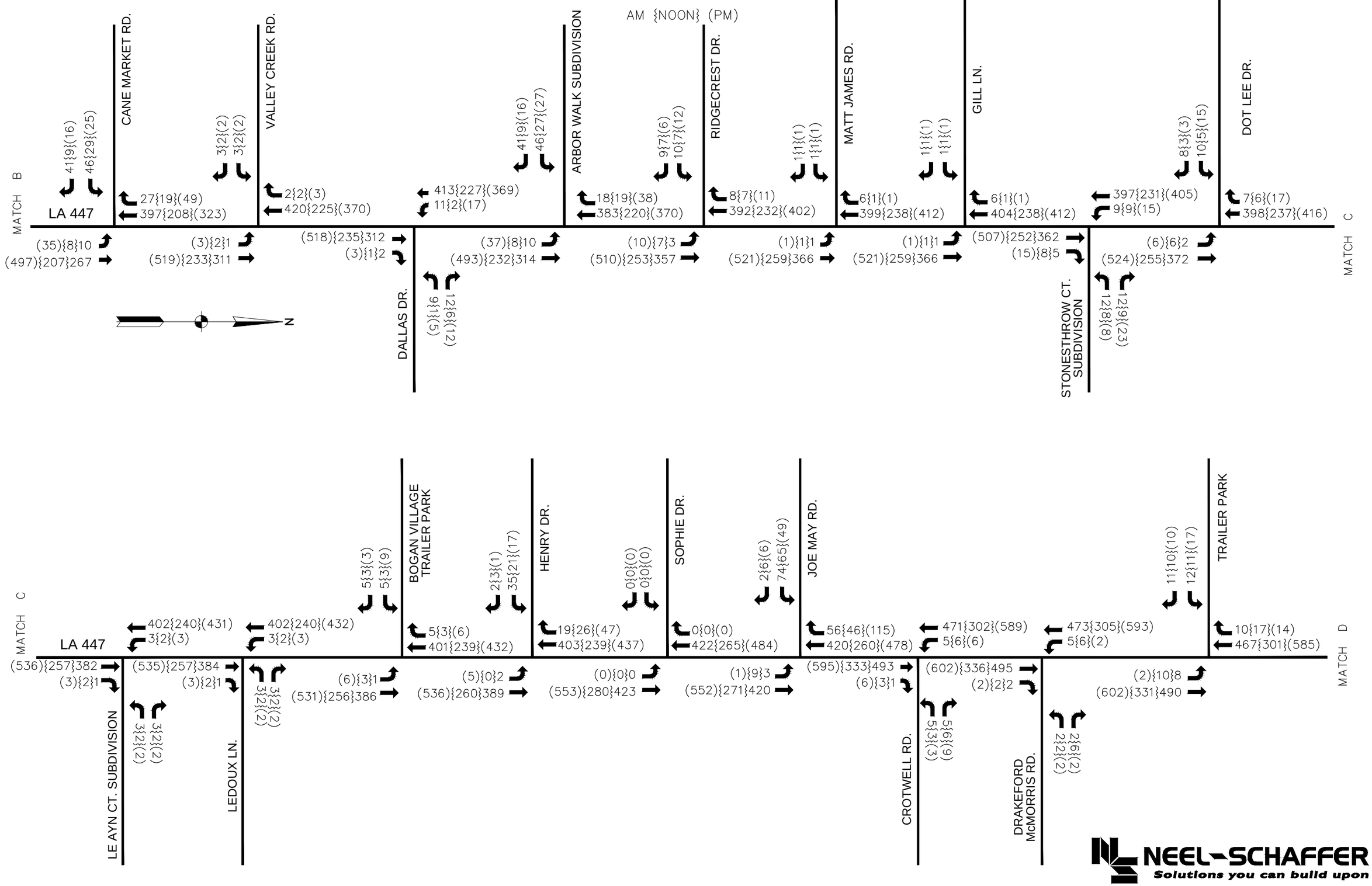

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2015 BALANCED VOLUMES

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Solutions you can build upon

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2015 BALANCED VOLUMES

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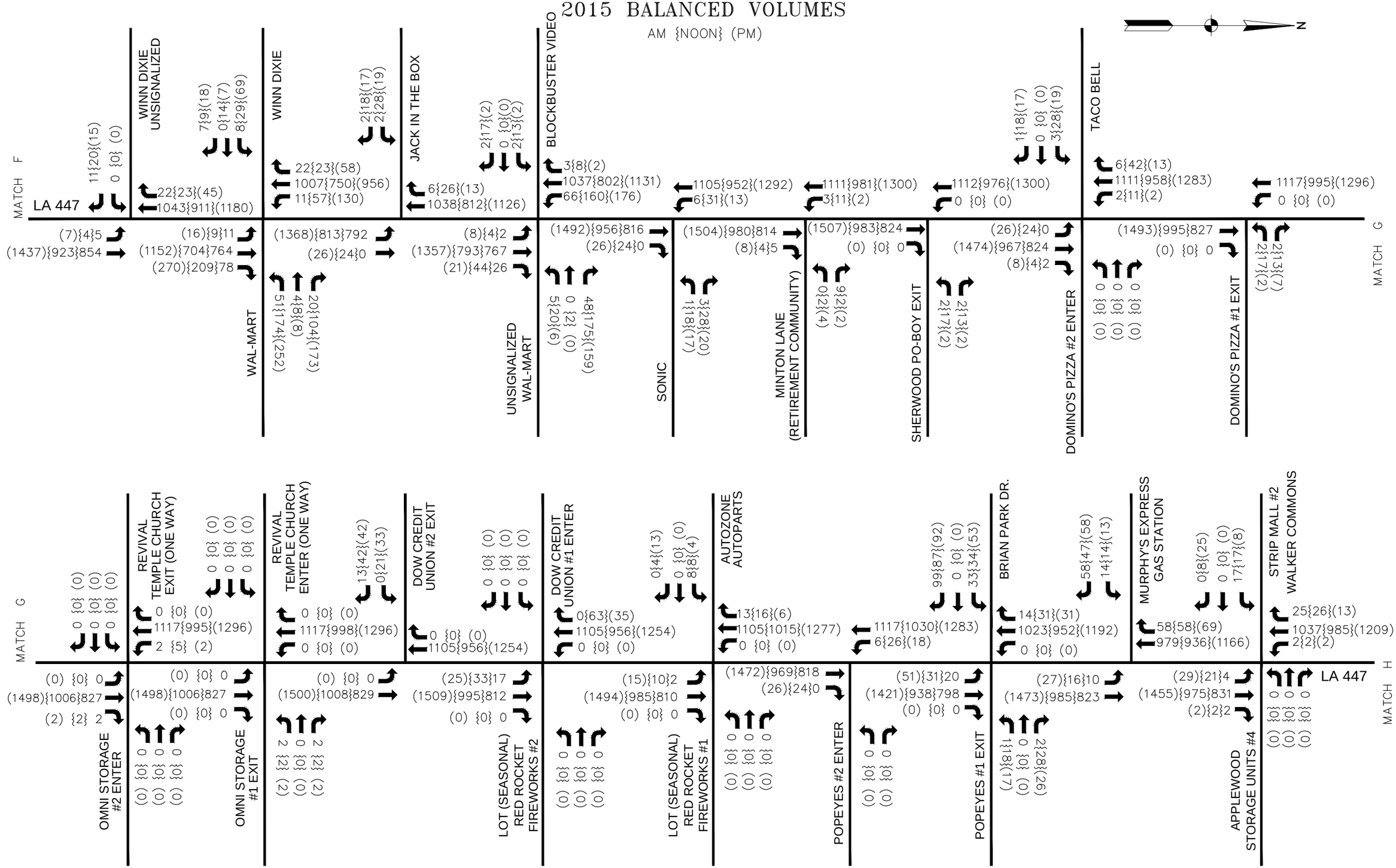

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2015 BALANCED VOLUMES

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Solutions you can build upon

2015 BALANCED VOLUMES

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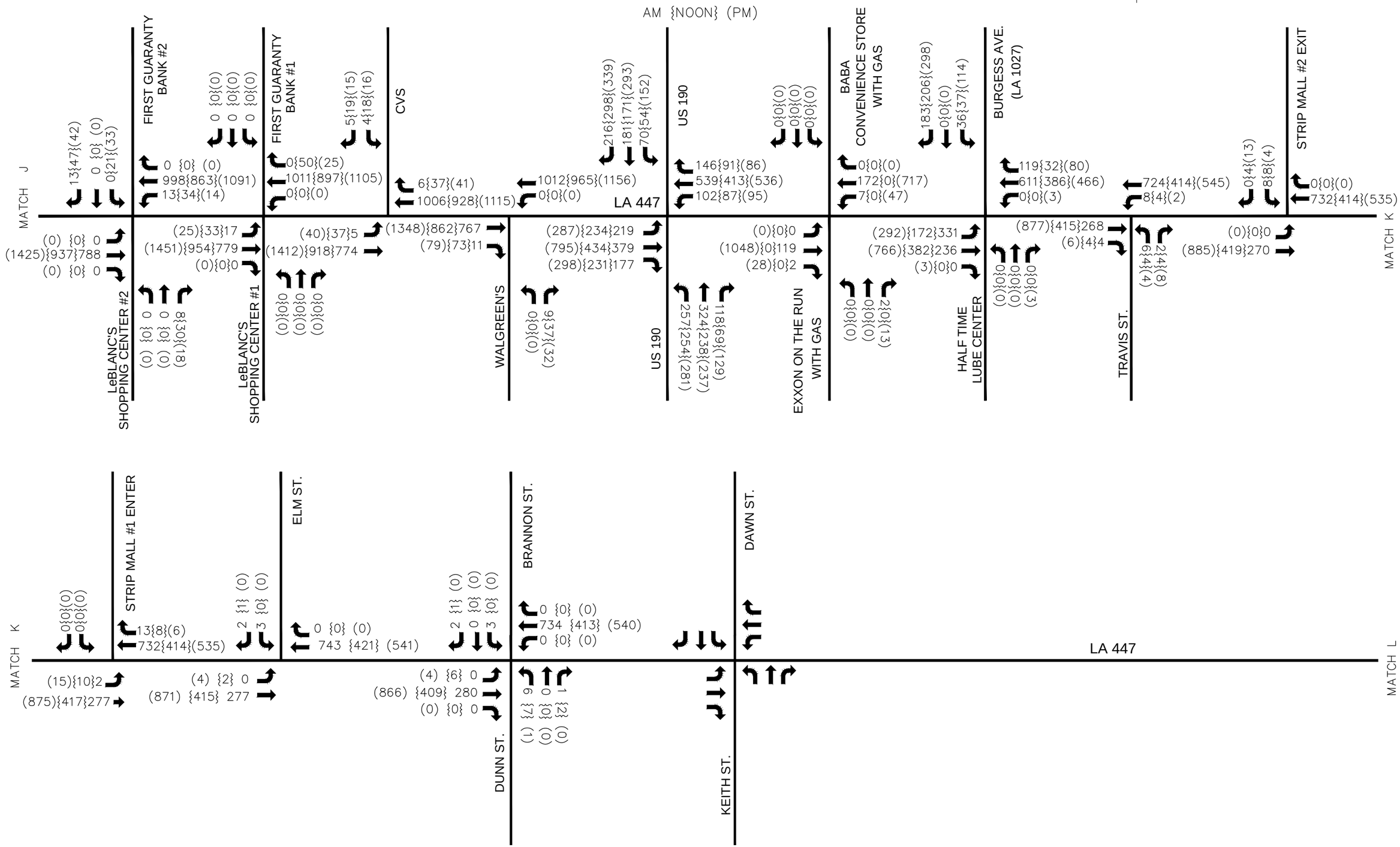

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VISSIM ANALAYSIS COMPARISON

2030 AM Peak - No-Build

Model Validity (Intersection Volumes) & Queues

		Queue Length				
		53	**56**	**57**	**Avg**	
LA 16	WBR	3424	3798	4548	3923	3923
	WBT	3424	3798	4548	3923	
	EBL	117	126	77.6	107	107
	EBT	117	126	77.6	107	
	SBL	151	92.5	123.7	122	122
	SBR	151	92.5	123.7	122	
US 190	NBL	269	220	258	249	
	NBT	169	162	257.7	196	249
	NBR	107	102	193.6	134	
	EBL	196	91.9	225.8	171	
	EBT	129	135	158.8	141	171
	EBR	0	0	0	0	
	SBL	54.4	2056	2495	1535	
	SBT	1056	2167	2576	1933	1933
	SBR	1032	2142	2551	1908	
	WBL	422	569	697.3	563	
	WBT	576	219	649.7	481	563
	WBR	19.1	0	0	6	
I-12 EB Ramp	NBT	9782	9758	9806	9782	9782
	NBR	9772	9741	9791	9768	
	EBL	275	448	301.1	341	341
	EBR	35.4	27.8	74.5	46	
	SBL	228	1462	407.7	699	846
	SBT	546	1461	531	846	

Network Performance

Seed Number

Section	**53**	**56**	**57**	**Average**
Average delay time per vehicle (sec)	202.3	217.9	226.1	215.4
Average stopped delay per vehicle (sec)	78.0	83.7	85.7	82.5
Number of vehicles that have left the network (Veh)	12630.0	12409.0	12394.0	12477.7
Total travel time (Hrs)	1440.8	1489.5	1517.7	1482.7

Travel Time Runs

Seed Number

Section	**53**	**56**	**57**	**Average**
NB-From LA 16 to Buddy Ellis	1102.3	1082.7	962.7	1049.2
NB- Buddy Ellis to I-12 EB Off Ramp	854.8	835.7	815.1	835.2
NB-I-12 EB Off Ramp to Pendarvis	53.4	54.8	53.9	54.0
NB- From Pendarvis to Wal-Mart	14.4	13.7	13.6	13.9
NB Walmart to US190	102.4	99.9	110.8	104.4
NB-From US 190 to Burgess Ave.	8.1	8.7	9.8	8.9
NB-From Burgess Ave. to Keith St.	50.7	49.9	49.3	50.0
NB Total	2186.1	2145.4	2015.2	2115.6
SB-From Keith St. to Burgess Ave.	90.2	176.9	176.8	148.0
SB- From Burgess Ave. to US 190	44.9	55.1	61.5	53.8
SB US190 to Walmart	81.9	81.2	81.7	81.6
SB Walmart to Pendarvis	20.7	22.6	21.9	21.7
SB-From Pendarvis to I-12 EB Off Ramp	69.4	110.1	69.2	82.9
SB-From I-12 EB Off Ramp to Buddy Ellis	90.9	90	90.4	90.4
SB-Buddy Ellis to LA 16	563.1	555.2	560.4	559.6
SB Total	961.1	1091.1	1061.9	1038.0

2030 Noon Peak - No-Build

Model Validity (Intersection Volumes) & Queues

		Queue Length				
		53	**56**	**57**	**Avg**	
LA 16	WBR	368	407	283.5	353	353
	WBT	368	407	283.5	353	
	EBL	50.9	42.9	63.55	52	52
	EBT	50.9	42.9	63.55	52	
	SBL	56.6	37	85.2	60	60
	SBR	56.6	37	85.2	60	
US 190	NBL	122	163	130.9	139	
	NBT	148	149	144.3	147	147
	NBR	89.1	91.2	85.25	89	
	EBL	65.1	52.3	73.35	64	
	EBT	149	172	159.8	160	160
	EBR	0	0	0	0	
	SBL	54.5	62.7	27.65	48	
	SBT	302	168	245.5	238	238
	SBR	280	148	224.8	218	
	WBL	559	274	541.5	458	
	WBT	178	191	273.5	214	458
	WBR	0	0	0	0	
I-12 EB Ramp	NBT	5151	4100	4319	4523	4523
	NBR	5036	3985	4205	4409	
	EBL	330	470	329.1	376	376
	EBR	26	99.8	37.2	54	
	SBL	88.3	50.5	47.15	62	325
	SBT	307	320	346	325	

Network Performance

	Seed Number			
Section	**53**	**56**	**57**	**Average**
Average delay time per vehicle (sec)	63.7	58.7	61.8	61.4
Average stopped delay per vehicle (sec)	23.5	23.8	24.6	24.0
Number of vehicles that have left the network (Veh)	13216.0	13143.0	13116.0	13158.3
Total travel time (Hrs)	857.0	834.3	842.0	844.4

Travel Time Runs

	Seed Number			
Section	**53**	**56**	**57**	**Average**
NB-From LA 16 to Buddy Ellis	565	532.1	525.3	540.8
NB- Buddy Ellis to I-12 EB Off Ramp	597.8	475.3	578.5	550.5
NB-I-12 EB Off Ramp to Pendarvis	54.9	56.3	57.1	56.1
NB- From Pendarvis to Wal-Mart	17.9	18.7	17.7	18.1
NB Walmart to US190	98	98.3	96.3	97.5
NB-From US 190 to Burgess Ave.	8	7.6	7.6	7.7
NB-From Burgess Ave. to Keith St.	51.4	50.7	52.4	51.5
NB Total	1393	1239	1334.9	1322.2
SB-From Keith St. to Burgess Ave.	58	57.2	58	57.7
SB- From Burgess Ave. to US 190	35.5	27.6	30.1	31.1
SB US190 to Walmart	85.4	85.4	85.7	85.5
SB Walmart to Pendarvis	21.1	20.4	19.5	20.3
SB-From Pendarvis to I-12 EB Off Ramp	61.9	66.7	64.6	64.4
SB-From I-12 EB Off Ramp to Buddy Ellis	91	92.6	92.9	92.2
SB-Buddy Ellis to LA 16	546.4	542.9	549.8	546.4
SB Total	899.3	892.8	900.6	897.6

2030 PM Peak - No-Build

Model Validity (Intersection Volumes) & Queues

		Queue Length				
		53	**56**	**57**	**Avg**	
LA 16	WBR	8435	8390	8488	8438	8438
	WBT	8435	8390	8488	8438	
	EBL	1136	1130	1129	1132	1132
	EBT	1136	1130	1129	1132	
	SBL	223	107	165	165	165
	SBR	223	107	165	165	
US 190	NBL	1057	346	1854	1086	
	NBT	447	885	879	737	1086
	NBR	377	415	1805	866	
	EBL	327	10	0	112	
	EBT	285	297	310	297	297
	EBR	0	219	322	180	
	SBL	169	261	550	327	
	SBT	333	274	288	298	4492
	SBR	311	6504	6662	4492	
	WBL	920	27	0	316	
	WBT	203	260	91	185	316
	WBR	0	212	156	123	
I-12 EB Ramp	NBT	9244	9104	9278	9209	9209
	NBR	9176	9048	9226	9150	
	EBL	703	461	4792	1985	4100
	EBR	1520	4880	5900	4100	
	SBL	72.4	62	67	67	2333
	SBT	1314	5028	658	2333	

Network Performance

	Seed Number			
Section	**53**	**56**	**57**	**Average**
Average delay time per vehicle (sec)	188.0	220.6	234.1	214.2
Average stopped delay per vehicle (sec)	60.6	74.6	70.4	68.5
Number of vehicles that have left the network (Veh)	14256.0	13757.0	13997.0	14003.3
Total travel time (Hrs)	1552.0	1665.9	1744.9	1654.3

Travel Time Runs

	Seed Number			
Section	**53**	**56**	**57**	**Average**
NB-From LA 16 to Buddy Ellis	1010.7	941.4	1021.1	991.1
NB- Buddy Ellis to I-12 EB Off Ramp	703.9	663.5	682.3	683.2
NB-I-12 EB Off Ramp to Pendarvis	47	46.9	48.2	47.4
NB- From Pendarvis to Wal-Mart	21	20.4	20.5	20.6
NB Walmart to US190	127.9	132.1	163.1	141.0
NB-From US 190 to Burgess Ave.	8.1	7.9	7.7	7.9
NB-From Burgess Ave. to Keith St.	58.6	57.6	55.3	57.2
NB Total	1977.2	1869.8	1998.2	1948.4
SB-From Keith St. to Burgess Ave.	64.2	62.6	61.5	62.8
SB- From Burgess Ave. to US 190	34.6	34.2	35.8	34.9
SB US190 to Walmart	87.6	88	89.3	88.3
SB Walmart to Pendarvis	21.4	23	24.3	22.9
SB-From Pendarvis to I-12 EB Off Ramp	76	130.5	82.6	96.4
SB-From I-12 EB Off Ramp to Buddy Ellis	112.5	116.6	110.6	113.2
SB-Buddy Ellis to LA 16	588.1	572.2	575.4	578.6
SB Total	984.4	1027.1	979.5	997.1

2030 AM Peak - Roundabout

Model Validity (Intersection Volumes) & Queues

		Queue Length				
		53	**56**	**57**	**Avg**	
LA 16	WBR	82	47	62	64	64
	WBT	16	28	31	25	
	EBL	82	47	62	64	64
	EBT	14	12	10	12	
	SBL	100	74	133	102	102
	SBR	100	74	133	102	
US 190	NBL	103	82	71	85	
	NBT	103	82	71	85	85
	NBR	103	82	71	85	
	EBL	160	253	91	168	
	EBT	160	253	91	168	168
	EBR	0	0	0	0	
	SBL	58	48	39	48	
	SBT	160	253	91	168	168
	SBR	0	0	0	0	
	WBL	0	0	0	0	
	WBT	130	143	192	155	155
	WBR	58	48	39	48	
I-12 EB Ramp	NBT	71	63	60	65	
	NBR	0	0	0	0	65
	EBL	28	63	32	41	
	EBR	0	0	0	0	41
	SBL	0	0	0	0	
	SBT	20	20	26	22	22

Network Performance

	Seed Number			
Section	**53**	**56**	**57**	**Average**
Average delay time per vehicle (sec)	19.2	19.3	20.3	19.6
Average stopped delay per vehicle (sec)	1.1	1.2	1.2	1.1
Number of vehicles that have left the network (Veh)	13649.0	13552.0	13364.0	13521.7
Total travel time (Hrs)	823.6	820.8	813.9	819.5

Travel Time Runs

	Seed Number			
Section	**53**	**56**	**57**	**Average**
NB-From LA 16 to Buddy Ellis	552.3	555.4	553.2	553.6
NB- Buddy Ellis to I-12 EB Off Ramp	108.2	108.8	107.6	108.2
NB-I-12 EB Off Ramp to Pendarvis	56.2	56.2	55.9	56.1
NB- From Pendarvis to Wal-Mart	20.4	20.5	20.2	20.4
NB Walmart to US190	116.4	116.4	116.7	116.5
NB-From US 190 to Burgess Ave.	12	12	12	12.0
NB-From Burgess Ave. to Keith St.	52.3	50.4	50.3	51.0
NB Total	917.8	919.7	915.9	917.8
SB-From Keith St. to Burgess Ave.	67.4	66.8	67.2	67.1
SB- From Burgess Ave. to US 190	20.1	21.5	21.5	21.0
SB US190 to Walmart	119.6	119.9	119	119.5
SB Walmart to Pendarvis	11.7	12	12	11.9
SB-From Pendarvis to I-12 EB Off Ramp	55.5	55.6	55.5	55.5
SB-From I-12 EB Off Ramp to Buddy Ellis	103	102.6	102.8	102.8
SB-Buddy Ellis to LA 16	545.3	543.5	546.6	545.1
SB Total	922.6	921.9	924.6	922.9

2030 Noon Peak - Roundabout

Model Validity (Intersection Volumes) & Queues

		Queue Length				
		53	**56**	**57**	**Avg**	
LA 16	WBR	38	29	62	43	43
	WBT	17	17	18	17	
	EBL	38	29	62	43	43
	EBT	11	0	9	7	
	SBL	35	39	86	53	53
	SBR	35	39	86	53	
US 190	NBL	101	89	114	101	
	NBT	101	89	114	101	101
	NBR	101	89	114	101	
	EBL	135	72	139	115	
	EBT	135	72	139	115	115
	EBR	0	0	0	0	
	SBL	64	68	49	60	
	SBT	135	72	139	115	115
	SBR	0	0	0	0	
	WBL	0	0	0	0	
	WBT	131	90	124	115	115
	WBR	64	68	49	60	
I-12 EB Ramp	NBT	37	38	45	40	40
	NBR	0	0	0	0	
	EBL	44	33	29	35	35
	EBR	0	0	0	0	
	SBL	0	0	0	0	12
	SBT	18	0	18	12	

Network Performance

	Seed Number			
Section	**53**	**56**	**57**	**Average**
Average delay time per vehicle (sec)	16.2	16.3	16.6	16.4
Average stopped delay per vehicle (sec)	1.2	1.1	1.2	1.2
Number of vehicles that have left the network (Veh)	13598.0	13522.0	13332.0	13484.0
Total travel time (Hrs)	741.3	742.4	735.7	739.8

Travel Time Runs

	Seed Number			
Section	**53**	**56**	**57**	**Average**
NB-From LA 16 to Buddy Ellis	548.8	550.1	549	549.3
NB- Buddy Ellis to I-12 EB Off Ramp	106.3	106.3	106.3	106.3
NB-I-12 EB Off Ramp to Pendarvis	56.8	56.9	56.8	56.8
NB- From Pendarvis to Wal-Mart	21.6	21.8	21.2	21.5
NB Walmart to US190	118.7	120.7	121.8	120.4
NB-From US 190 to Burgess Ave.	11.9	11.8	11.9	11.9
NB-From Burgess Ave. to Keith St.	51.7	50.8	50.7	51.1
NB Total	915.8	918.4	917.7	917.3
SB-From Keith St. to Burgess Ave.	63.1	62.8	63.1	63.0
SB- From Burgess Ave. to US 190	19.9	21.2	20.2	20.4
SB US190 to Walmart	124	125.5	125.6	125.0
SB Walmart to Pendarvis	11.3	11.6	11.4	11.4
SB-From Pendarvis to I-12 EB Off Ramp	55	54.8	54.5	54.8
SB-From I-12 EB Off Ramp to Buddy Ellis	102.9	102.6	102.8	102.8
SB-Buddy Ellis to LA 16	540.4	540	541.5	540.6
SB Total	916.6	918.5	919.1	918.0

2030 PM Peak - Roundabout

Model Validity (Intersection Volumes) & Queues

		Queue Length				
		53	**56**	**57**	**Avg**	
LA 16	WBR	92	72	112	92	92
	WBT	50	44	31	42	
	EBL	92	72	112	92	92
	EBT	50	41	38	43	
	SBL	89	108	70	89	89
	SBR	89	108	70	89	
US 190	NBL	116	110	110	112	
	NBT	116	110	110	112	112
	NBR	116	110	110	112	
	EBL	321	329	397	349	
	EBT	321	329	397	349	349
	EBR	0	0	0	0	
	SBL	80	107	142	110	
	SBT	321	329	397	349	349
	SBR	40	0	0	13	
	WBL	0	20	21	14	
	WBT	293	302	193	263	263
	WBR	80	107	142	110	
I-12 EB Ramp	NBT	98	87	86	90	
	NBR	0	0	0	0	90
	EBL	89	97	165	117	
	EBR	0	0	0	0	117
	SBL	0	0	0	0	
	SBT	20	33	19	24	24

Network Performance

	Seed Number			
Section	**53**	**56**	**57**	**Average**
Average delay time per vehicle (sec)	32.2	33.3	34.6	33.4
Average stopped delay per vehicle (sec)	5.7	6.1	6.2	6.0
Number of vehicles that have left the network (Veh)	15612.0	15508.0	15390.0	15503.3
Total travel time (Hrs)	991.3	992.1	992.8	992.1

Travel Time Runs

	Seed Number			
Section	**53**	**56**	**57**	**Average**
NB-From LA 16 to Buddy Ellis	560.2	560.1	561.2	560.5
NB- Buddy Ellis to I-12 EB Off Ramp	109.7	110	110.8	110.2
NB-I-12 EB Off Ramp to Pendarvis	58.8	59.1	58.9	58.9
NB- From Pendarvis to Wal-Mart	23.6	24	24.3	24.0
NB Walmart to US190	128.1	128.6	128	128.2
NB-From US 190 to Burgess Ave.	12.6	12.5	12.6	12.6
NB-From Burgess Ave. to Keith St.	57.1	56.8	55.6	56.5
NB Total	950.1	951.1	951.4	950.9
SB-From Keith St. to Burgess Ave.	65	65.2	65.4	65.2
SB- From Burgess Ave. to US 190	21.1	21.4	22.9	21.8
SB US190 to Walmart	140.3	141	138.1	139.8
SB Walmart to Pendarvis	11.8	12	12	11.9
SB-From Pendarvis to I-12 EB Off Ramp	56.3	56.1	55.6	56.0
SB-From I-12 EB Off Ramp to Buddy Ellis	110.7	109.3	109.2	109.7
SB-Buddy Ellis to LA 16	549.4	548.9	549.4	549.2
SB Total	954.6	953.9	952.6	953.6

2030 AM Peak - RCUT

Model Validity (Intersection Volumes) & Queues

		Queue Length				
		53	**56**	**57**	**Avg**	
LA 16	WBR	17	17	17	17	17
	WBT	13	12	12	12	
	EBL	69	42	62	58	58
	EBT	69	42	62	58	
	SBL	75	64	89	76	76
	SBR	75	64	89	76	
US 190	NBL	51	83	83	72	
	NBT	51	83	83	72	72
	NBR	0	0	0	0	
	EBL	62	48	49	53	
	EBT	62	48	49	53	53
	EBR	0	0	0	0	
	SBL	253	217	218	229	
	SBT	253	217	218	229	229
	SBR	198	162	162	174	
	WBL	179	139	117	145	
	WBT	179	139	117	145	145
	WBR	0	0	0	0	
I-12 EB Ramp	NBT	55	54	60	56	
	NBR	0	0	0	0	56
	EBL	38	37	33	36	
	EBR	0	0	0	0	36
	SBL	0	0	0	0	
	SBT	20	19	20	20	20

Network Performance

	Seed Number			
Section	**53**	**56**	**57**	**Average**
Average delay time per vehicle (sec)	18.0	18.4	18.0	18.2
Average stopped delay per vehicle (sec)	2.4	2.6	2.3	2.4
Number of vehicles that have left the network (Veh)	13629.0	13576.0	13362.0	13522.3
Total travel time (Hrs)	799.8	799.3	783.9	794.3

Travel Time Runs

	Seed Number			
Section	**53**	**56**	**57**	**Average**
NB-From LA 16 to Buddy Ellis	549.5	554.2	550.8	551.5
NB- Buddy Ellis to I-12 EB Off Ramp	106.8	107.1	106.2	106.7
NB-I-12 EB Off Ramp to Pendarvis	57.4	57.4	56.9	57.2
NB- From Pendarvis to Wal-Mart	20	20.5	19.7	20.1
NB Walmart to US190	84.1	86.1	84.5	84.9
NB-From US 190 to Burgess Ave.	11.7	11.6	11.5	11.6
NB-From Burgess Ave. to Keith St.	53.8	54.3	51.6	53.2
NB Total	883.3	891.2	881.2	885.2
SB-From Keith St. to Burgess Ave.	60.4	60.6	59.4	60.1
SB- From Burgess Ave. to US 190	23	24	24.9	24.0
SB US190 to Walmart	90.3	88.8	88.9	89.3
SB Walmart to Pendarvis	14.1	13.9	13.8	13.9
SB-From Pendarvis to I-12 EB Off Ramp	58.2	58.1	57.9	58.1
SB-From I-12 EB Off Ramp to Buddy Ellis	100.9	100.3	100.2	100.5
SB-Buddy Ellis to LA 16	544.8	543.2	543.2	543.7
SB Total	891.7	888.9	888.3	889.6

2030 Noon Peak - RCUT

Model Validity (Intersection Volumes) & Queues

		Queue Length				
		53	**56**	**57**	**Avg**	
LA 16	WBR	17	16	25	19	19
	WBT	11	10	11	11	
	EBL	42	49	47	46	46
	EBT	42	49	47	46	
	SBL	96	49	74	73	73
	SBR	96	49	74	73	
US 190	NBL	75	84	96	85	
	NBT	75	84	96	85	85
	NBR	0	0	0	0	
	EBL	77	57	75	70	
	EBT	77	57	75	70	70
	EBR	0	0	0	0	
	SBL	209	182	163	185	
	SBT	209	182	163	185	185
	SBR	155	131	111	132	
	WBL	174	126	159	153	
	WBT	174	126	159	153	153
	WBR	0	0	0	0	
I-12 EB Ramp	NBT	52	55	46	51	51
	NBR	0	0	0	0	
	EBL	35	38	44	39	39
	EBR	0	0	0	0	
	SBL	0	0	0	0	
	SBT	0	0	19	6	6

Network Performance

	Seed Number			
Section	**53**	**56**	**57**	**Average**
Average delay time per vehicle (sec)	19.7	19.9	20.4	20.0
Average stopped delay per vehicle (sec)	4.5	4.5	4.9	4.6
Number of vehicles that have left the network (Veh)	13591.0	13524.0	13344.0	13486.3
Total travel time (Hrs)	744.0	746.5	738.8	743.1

Travel Time Runs

	Seed Number			
Section	**53**	**56**	**57**	**Average**
NB-From LA 16 to Buddy Ellis	546.4	548.2	547.9	547.5
NB- Buddy Ellis to I-12 EB Off Ramp	105.4	105.5	105.2	105.4
NB-I-12 EB Off Ramp to Pendarvis	58.5	58.3	58.6	58.5
NB- From Pendarvis to Wal-Mart	20.5	20	20.5	20.3
NB Walmart to US190	92.6	96	91.6	93.4
NB-From US 190 to Burgess Ave.	11.2	11.2	11.2	11.2
NB-From Burgess Ave. to Keith St.	55.3	56	54.7	55.3
NB Total	889.9	895.2	889.7	891.6
SB-From Keith St. to Burgess Ave.	56	55.5	55.4	55.6
SB- From Burgess Ave. to US 190	24.9	24	24.1	24.3
SB US190 to Walmart	95.6	95.9	97.5	96.3
SB Walmart to Pendarvis	14	13.9	14.1	14.0
SB-From Pendarvis to I-12 EB Off Ramp	58.6	58.4	58.7	58.6
SB-From I-12 EB Off Ramp to Buddy Ellis	100.4	100.8	101.2	100.8
SB-Buddy Ellis to LA 16	541.5	539.7	541.2	540.8
SB Total	891	888.2	892.2	890.4

2030 PM Peak - RCUT

Model Validity (Intersection Volumes) & Queues

		Queue Length				
		53	**56**	**57**	**Avg**	
LA 16	WBR	47	44	26	39	58
	WBT	77	38	59	58	
	EBL	89	117	67	91	91
	EBT	89	117	67	91	
	SBL	57	49	69	58	58
	SBR	57	49	69	58	
US 190	NBL	191	140	209	180	
	NBT	191	140	209	180	180
	NBR	0	24	0	8	
	EBL	171	208	264	214	
	EBT	171	208	264	214	214
	EBR	0	0	0	0	
	SBL	438	338	1425	734	
	SBT	438	338	1425	734	734
	SBR	374	273	1356	668	
	WBL	1268	1126	1191	1195	
	WBT	1268	1126	1191	1195	1195
	WBR	49	23	0	24	
I-12 EB Ramp	NBT	122	108	97	109	
	NBR	0	0	0	0	109
	EBL	100	95	80	92	
	EBR	0	0	0	0	92
	SBL	0	0	0	0	
	SBT	21	21	19	20	20

Network Performance

	Seed Number			
Section	**53**	**56**	**57**	**Average**
Average delay time per vehicle (sec)	41.5	37.3	41.4	40.1
Average stopped delay per vehicle (sec)	10.4	9.5	10.6	10.2
Number of vehicles that have left the network (Veh)	15604.0	15469.0	15411.0	15494.7
Total travel time (Hrs)	1009.1	983.1	997.2	996.4

Travel Time Runs

	Seed Number			
Section	**53**	**56**	**57**	**Average**
NB-From LA 16 to Buddy Ellis	557.6	558.5	558.9	558.3
NB- Buddy Ellis to I-12 EB Off Ramp	110.2	109.8	110	110.0
NB-I-12 EB Off Ramp to Pendarvis	60.7	60.5	61.6	60.9
NB- From Pendarvis to Wal-Mart	21.9	21.6	21.2	21.6
NB Walmart to US190	98.4	101.9	101.5	100.6
NB-From US 190 to Burgess Ave.	12.7	12.7	12.5	12.6
NB-From Burgess Ave. to Keith St.	58.1	56.8	58.6	57.8
NB Total	919.6	921.8	924.3	921.8
SB-From Keith St. to Burgess Ave.	59.6	59.2	63.2	60.7
SB- From Burgess Ave. to US 190	29.3	29.3	34.4	31.0
SB US190 to Walmart	100.1	99.1	101.3	100.2
SB Walmart to Pendarvis	15	14.7	14.8	14.8
SB-From Pendarvis to I-12 EB Off Ramp	59.5	59.4	59	59.3
SB-From I-12 EB Off Ramp to Buddy Ellis	107.4	106.9	106.9	107.1
SB-Buddy Ellis to LA 16	548.3	547.1	548.1	547.8
SB Total	919.2	915.7	927.7	920.9