CITY COUNCIL AGENDA ITEM COVER MEMO

Agenda Item Number_____

Meeting Type: Regular

Meeting Date: 9/13/2012

Action Requested By:
Engineering

Agenda Item Type
Select...

Subject Matter:

Municipal Resolution

Exact Wording for the Agenda:

Resolution authorizing the Mayor to enter into an agreement with the Alabama Department of Transportation for Widening of Old Madison Pike from Slaughter Road to Thornton Research Park, Project No. STPAA-STPHV-8525 (600) & COH Project No. 65-12-TI05

Note: If amendment, please state title and number of the original

Item to be considered for: Action

Unanimous Consent Required: No

Briefly state why the action is required; why it is recommended; what Council action will provide, allow
and accomplish and; any other information that might be helpful.

The approved council resolution of this Municipal Resolution is necessary to meet the Federal Highway Administration's funding requirements for the construction of said project. Agreement is at no cost to the City.

Associated Cost:

Budgeted Item: Select...

MAYOR RECOMMENDS OR CONCURS: Select...

Department Head: _____

Date: 8/27/12

revised 3/12/2012

ROUTING SLIP
CONTRACTS AND AGREEMENTS

Originating Department: **Engineering** Council Meeting Date: **9/13/2012**

Department Contact: **Lynn Majors** Phone # **256-427-5201**

Contract or Agreement: **ALDOT Municipal Agreement**

Document Name: **Old Madison Pike Municipal Agmt Project No.** STPAA-STPHV-8525(600) & COH Project No. 65-12-TI05

City Obligation Amount: **0**

Total Project Budget: **0**

Uncommitted Account Balance: **0**

Account Number: **N/A**

Procurement Agreements

Not Applicable	**Not Applicable**

Grant-Funded Agreements

Not Applicable	**Grant Name:**

Department	Signature	Date
1) Originating		8/22/12
2) Legal	Mary C Gates	8/29/12
3) Finance		8/30/12
4) Originating		
5) Copy Distribution		
a. Mayor's office (1 copies)		
b. Clerk-Treasurer (Original & 2 copies)		

RESOLUTION NO. 12-_____

WHEREAS, the City Council of the City of Huntsville (hereinafter at times referred to as Government Body) is desirous of having certain improvements made on CR-17 (Old Madison Pike) within the City Limits of City of Huntsville, in accordance with plans prepared by the Alabama Department of Transportation and designated as Project STPAA-STPHV-8525 (600) and described as Widening of CR-17 (Old Madison Pike) from CR-19 (Slaughter Road) to the Thornton Research Park (Grade, Drain, Base, Pave, Bridge and Signal).

WHEREAS, the Alabama Department of Transportation of Alabama is now or may be desirous of receiving Federal Aid for improvement of said highway; and

WHEREAS, the Federal Highway Administration, an agency of the United States of America, will not participate in any funding for the construction of said project until and unless the City will agree to certain requirements of the Federal Highway Administration. The City for the purpose of complying with requirements of the Federal Highway Administration in regard to its funding of improvements to the type and kind in this agreement provided for, does hereby pass and adopt the following resolution:

BE IT RESOLVED by the City Council of the City of Huntsville, that the plans of said project including alignment, profile, grades, typical sections and paving layouts as submitted to this City Council and which are now on file in the office of the City Clerk are hereby approved and that the location of said project as staked out by the Alabama Department of Transportation and as shown by said plans referred to are hereby approved and the Alabama Department of Transportation, in cooperation with the Federal Highway Administration, is hereby authorized to proceed with the grading, drainage, paving, and otherwise improving and construction of said project in accordance with said plans.

The City by and through its City Council hereby grants to the Alabama Department of Transportation the full use of and access to the dedicated widths of any existing streets for the construction of said project and hereby agrees to permit and allow the Alabama Department of Transportation to close and barricade the said project and intersecting streets for as long as necessary while the said project is being graded, drained, paved, and otherwise improved, and hereby agrees that the use of any street or highway for parking within an interchange area will not at any time be permitted.

The City hereby further agrees to adopt or pass such legally effective ordinances and/or laws as will permanently barricade and/or relocate certain intersecting streets as required by the State and to permanently deny or limit access at certain locations as required by the State along said improvements, all of which are most specifically stated as follows: See Plans: STPAA-STPHV-8525(600)

BE IT FURTHER RESOLVED by the City Council, that for and in consideration of the Alabama Department of Transportation in cooperation with the Federal Highway Administration, constructing said highway and routing traffic along the same through the City over said project, such City hereby agrees with the Alabama Department of Transportation and for the benefit of the Federal Highway Administration, that on the above mentioned project the City will not in the future permit encroachment upon the right of way; nor will it pass any ordinances or laws fixing a speed limit contrary to those limits provided for in Title 32, Chapter 5, Code of Alabama 1975, as amended, and other laws of Alabama; nor will it permit other than parallel parking in areas where parking is permitted; nor will it allow the placing of any informational, regulatory, or warning signs, signals, median crossover, curb and pavement or other markings, and traffic signals without written approval of the Alabama Department of Transportation and the Federal Highway Administration, of the location, form and character of such installations. The traffic control devices and signs installed during construction, and those installed after completion of this project, shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices and accepted standards adopted by the Alabama Department of Transportation of the State of Alabama and by the Federal Highway Administration.

The City further agrees that subsequent traffic control devices deemed necessary by it in keeping with applicable statutes, rules and regulations to promote the safe and efficient utilization of the highway under the authority of Title 32, Chapter 5, Code of Alabama 1975, and all other applicable laws of Alabama, shall be subject to and must have the approval of the Alabama Department of Transportation of the State of Alabama and the Federal Highway Administration, prior to installation and the City further agrees that it will enforce traffic and control the same under the provisions of Title 32, Chapter 5, Code of Alabama 1975, and other applicable laws of Alabama.

BE IT FURTHER RESOLVED by this City Council:

1. That the City agrees to perform all maintenance on crossroads, service drives, or relocated roads that are not designated Federal or State highways that are in the jurisdiction of the City of Huntsville.

2. That the City agrees to perform all maintenance on any existing road which has been replaced by a new road; or, if the existing road is not used, the City has the option of vacating same.

3. That the N/A agrees to perform all maintenance on interchanges to the theoretical crossing of the denied access line where applicable.

4. That the N/A agrees to perform all maintenance on grade separations along the roadway to the end of the bridge, or the denied access fence, whichever the cause.

It is understood and agreed that no changes in this Resolution of Agreement shall in the future be made without having obtained the prior approval of the Federal Highway Administration.

ADOPTED on this the 13th day of September, 2012.

_____
President of the City Council
of the City of Huntsville,
Alabama

APPROVED on this the 13th day of September, 2012.

_____
Mayor of the City of Huntsville,
Alabama

I, the undersigned City Clerk of the City of Huntsville, Alabama, do hereby certify that the above and foregoing is a true copy of a resolution duly adopted by the City Council of the City of Huntsville, Alabama at its regular meeting held on the 13th day of September, 2012, as the same appears in Minute Book _____, Page _____ of said City of Huntsville.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City on this the 13th day of September, 2012.

_____
City Clerk-Treasurer
City of Huntsville, Alabama

ATTACHMENT "A"

STATE	REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.	LAST SHEET NO.
AL	STPAA-STPHV-8525 (600)	2012	1	120

CONTRACT ID NO.

Preliminary Project No. STPAA-8525 (600)
Code No. 4303-AAST-100039003-2

ALABAMA
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED PROJECT NUMBER

STPAA-STPHV-8525(600)

WIDENING OF OLD MADISON PIKE

FROM SLAUGHTER ROAD TO THORNTON RESEARCH PARK

GRADE, DRAIN, BASE, PAVE, BRIDGE, AND SIGNAL

MADISON COUNTY

Index to Project

Design Designation	
ADT (2012)	19123
ADT (2032)	31335
K	10%
D	85%
TDHV	6%
TADT	8%
V (Design Speed)	45 MPH
Min. Stopping Sight Dist.	360 FT.

These plans have been prepared to conform with the Alabama Department of Transportation Standard Specifications for Highway Construction, 2012 Edition.

Existing Bridge (Remove)

INDEX	STA	TO	STA	LENGTH	BIN
A	26+85.20		28+05.12	119.92	019254
B	34+47.92		34+75.18	27.26	019323

TOTAL EFFECT None

Existing Bridge (Culvert) (Remove)

INDEX	STA	TO	STA	LENGTH	BIN
C	25+37.83		25+62.75	24.92	018741

TOTAL EFFECT 24.92

Required Bridge

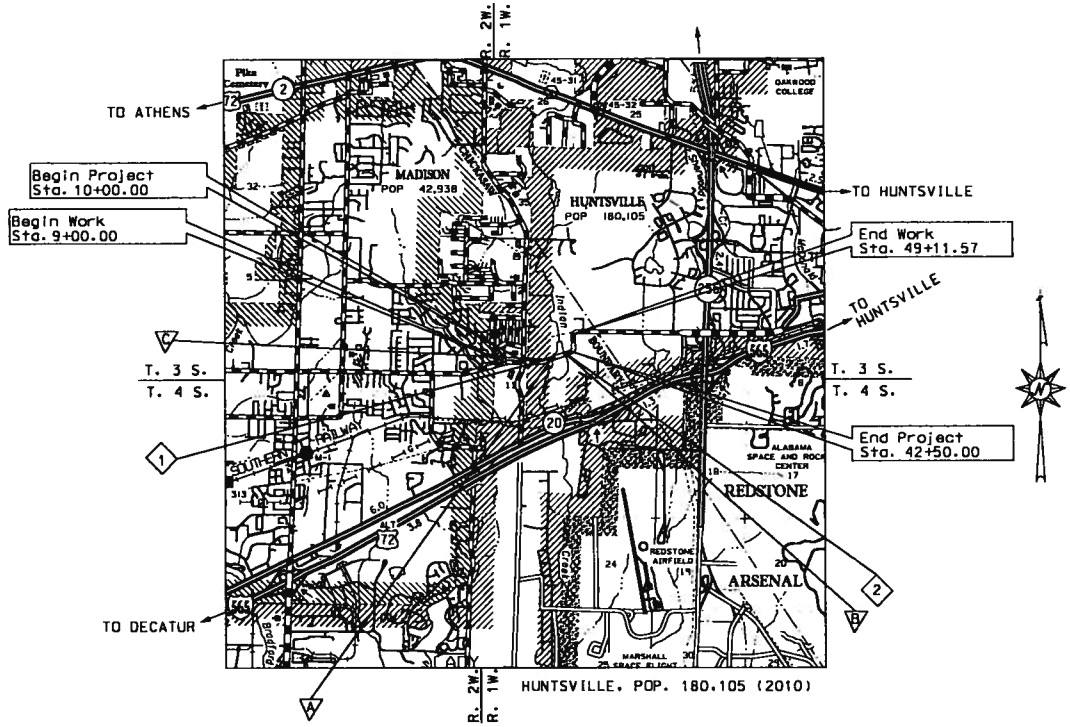
INDEX	STA	TO	STA	LENGTH	BIN
1	25+20.00		28+70.00	350.00	019000

TOTAL EFFECT 350.00

Required Bridge (Culvert)

INDEX	STA	TO	STA	LENGTH	BIN
2	34+50.00		34+76.67	26.67	019839

TOTAL EFFECT 26.67



	FEET	MILES
Total Stationing of Project	3250.00	
Equations & Exceptions	0.00	
Net Length of Project	3250.00	0.615
Net Length of Bridges	376.67	0.071
Net Length of Roadways	2873.33	0.544

PS&E SUBMITTAL
PRINTED: JULY 13, 2012

ALABAMA DEPARTMENT OF TRANSPORTATION
Submitted for Approval

DIVISION ENGINEER

CHIEF ENGINEER

Approved

TRANSPORTATION DIRECTOR

PREPARED AND RECOMMENDED BY
BWSC
BWSC PROJECT - 14497-00 & 32321-09

APPROVED _____ DATE _____
PROJECT MANAGER

REGISTRATION No. _____

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	1A

INDEX TO SHEETS

PROJECT NO. STPAA-STPHV-8525(600)
MADISON COUNTY

SHEET NO.	DESCRIPTION
1	TITLE SHEET
1A	INDEX TO SHEETS
1B	INDEX TO SHEETS (STANDARD DRAWING LIST)
1C	PLANS LEGEND
1-D	PLAN ABBREVIATION SHEET
1E	GEOMETRIC CONTROL LAYOUT AND DATA
2 - 2C	TYPICAL SECTIONS
2-D	DITCH TYPICAL SECTIONS
2E	PROJECT NOTES
2F	TRAFFIC SIGNAL NOTES
2G	TRAFFIC CONTROL NOTES
3 - 3-B	SUMMARY OF QUANTITIES - PAY SHEETS
3C - 3-D	SUMMARY OF QUANTITIES - REMOVAL ITEMS
3E	SUMMARY OF QUANTITIES - DRAINAGE SUMMARY
3F	SUMMARY OF QUANTITIES - DITCH QUANTITIES AND SOLID SODDING (BERMUDA)
3G - 3H	SUMMARY OF QUANTITIES - REQUIRED ITEMS
3-I	SUMMARY OF QUANTITIES - TEMPORARY EROSION AND SEDIMENT CONTROL
3J	SUMMARY OF QUANTITIES - TRAFFIC SIGNAL ITEMS
4	PLAN/PROFILE SHEET - OLD MADISON PIKE STA. 10+00.00 TO STA. 21+50.00
5	PLAN/PROFILE SHEET - OLD MADISON PIKE STA. 21+50.00 TO STA. 35+00.00
6	PLAN/PROFILE SHEET - OLD MADISON PIKE STA. 35+00.00 TO STA. 42+50.00
7	PROFILE SHEET-DRIVEWAY NO. 1 & 2, GREENWAY PARKING DRIVEWAY, GREENWAY ENTRANCE SIDEWALK AND SLAUGHTER ROAD
8 - 9	OMIT
10	PAVING LAYOUT, STRIPING & SIGNING - OLD MADISON PIKE STA. 10+00.00 TO STA. 21+50.00
11	PAVING LAYOUT, STRIPING & SIGNING - OLD MADISON PIKE STA. 21+50.00 TO STA. 35+00.00
12	PAVING LAYOUT, STRIPING & SIGNING - OLD MADISON PIKE STA. 35+00.00 TO STA. 49+11.57
13	SPECIAL PROJECT DETAIL - STANDARD HIGHWAY SIGNS
14 - 20	OMIT
21	UTILITY SHEET - OLD MADISON PIKE STA. 10+00.00 TO STA. 21+50.00
22	UTILITY SHEET - OLD MADISON PIKE STA. 21+50.00 TO STA. 35+00.00
23	UTILITY SHEET - OLD MADISON PIKE STA. 35+00.00 TO STA. 42+50.00
24 - 30	OMIT

SHEET NO.	DESCRIPTION
31	HYDRAULIC DATA SHEET
32-37	DRAINAGE SECTIONS
37A	SPECIAL PROJECT DETAIL - JUNCTION BOX, TYPE 1 (MODIFIED) DETAILS
38	SPECIAL PROJECT DETAIL - CD 146 BOX CULVERT DETAILS
39	SPECIAL PROJECT DETAIL - REINFORCED CONCRETE BOX CULVERT WINGS, OPENING 6' HEIGHT, 3:1 SLOPE, 0° SKEW
40-41	OMIT
42	EROSION AND SEDIMENT CONTROL LEGEND
43	EROSION AND SEDIMENT CONTROL PLAN - PRE-CONSTRUCTION PHASE - OLD MADISON PIKE STA. 10+00.00 TO STA. 21+50.00
44	EROSION AND SEDIMENT CONTROL PLAN - PRE-CONSTRUCTION PHASE - OLD MADISON PIKE STA. 21+50.00 TO STA. 35+00.00
45	EROSION AND SEDIMENT CONTROL PLAN - PRE-CONSTRUCTION PHASE - OLD MADISON PIKE STA. 35+00.00 TO STA. 42+50.00
46	EROSION AND SEDIMENT CONTROL PLAN - CONSTRUCTION PHASE - OLD MADISON PIKE STA. 10+00.00 TO STA. 21+50.00
47	EROSION AND SEDIMENT CONTROL PLAN - CONSTRUCTION PHASE - OLD MADISON PIKE STA. 21+50.00 TO STA. 35+00.00
48	EROSION AND SEDIMENT CONTROL PLAN - CONSTRUCTION PHASE - OLD MADISON PIKE STA. 35+00.00 TO STA. 42+50.00
49	EROSION AND SEDIMENT CONTROL PLAN - POST CONSTRUCTION PHASE - OLD MADISON PIKE STA. 10+00.00 TO STA. 21+50.00
50	EROSION AND SEDIMENT CONTROL PLAN - POST CONSTRUCTION PHASE - OLD MADISON PIKE STA. 21+50.00 TO STA. 35+00.00
50A	EROSION AND SEDIMENT CONTROL PLAN - POST CONSTRUCTION PHASE - OLD MADISON PIKE STA. 35+00.00 TO STA. 42+50.00
51	TRAFFIC CONTROL PLAN - SEQUENCE OF CONSTRUCTION, LEGEND, AND ESTIMATED QUANTITIES
51A	TRAFFIC CONTROL PLAN - STANDARD DETAILS FOR TRAFFIC CONTROL PLANS
51B	TRAFFIC CONTROL PLAN - STANDARD DETAILS FOR TRAFFIC CONTROL PLANS
51C	TRAFFIC CONTROL PLAN - DETAILS FOR TRAFFIC CONTROL FOR 5-LANE HIGHWAYS
51D	TRAFFIC CONTROL PLAN - DETAILS FOR TRAFFIC CONTROL FOR 5-LANE HIGHWAYS
51E	TRAFFIC CONTROL PLAN - TYPICAL PLACEMENT OF ADVANCE WARNING SIGNS FOR MULTILANE DIVIDED HIGHWAYS
52	TRAFFIC CONTROL PLAN, PHASE II - OLD MADISON PIKE STA. 10+00.00 TO 21+50.00
53	TRAFFIC CONTROL PLAN, PHASE II - OLD MADISON PIKE STA. 21+50.00 TO STA. 35+00.00
54	TRAFFIC CONTROL PLAN, PHASE II - OLD MADISON PIKE STA. 35+00.00 TO STA. 42+50.00
55	TRAFFIC CONTROL PLAN, PHASE III - OLD MADISON PIKE STA. 10+00.00 TO 21+50.00
56	TRAFFIC CONTROL PLAN, PHASE III - OLD MADISON PIKE STA. 21+50.00 TO STA. 35+00.00
57	TRAFFIC CONTROL PLAN, PHASE III - OLD MADISON PIKE STA. 35+00.00 TO STA. 42+50.00
58	TRAFFIC CONTROL PLAN, DETOUR - OLD MADISON PIKE
59	OMIT
60	TRAFFIC SIGNAL AND ITS LEGEND
61	TRAFFIC SIGNAL LAYOUT - OLD MADISON PIKE AT SLAUGHTER ROAD
62	TRAFFIC SIGNAL POLE BORINGS - OLD MADISON PIKE AT SLAUGHTER ROAD
63-64	OMIT
65-94-B	BRIDGE PLANS
95-119	CROSS SECTIONS - OLD MADISON PIKE STA. 10+00.00 TO STA. 42+50.00
120	EARTHWORK SUMMARY

* NOT INCLUDED WITH THIS SUBMITTAL

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		INDEX TO SHEETS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	1-B

INDEX TO SHEETS

PROJECT NO. STPAA-STPHV-8525(600)
MADISON COUNTY

THE FOLLOWING ARE SPECIAL AND STANDARD DRAWINGS CONTAINED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL AND STANDARD HIGHWAY DRAWINGS BOOK (U.S. CUSTOMARY UNITS OF MEASUREMENT) DATED 2012 WHICH APPLY TO THIS PROJECT.

INDEX NO.	SPEC. OR STD. DWG NO.	DESCRIPTION
105	BES-450-0	REINFORCED CONCRETE BRIDGE END SLAB (WITH BITUMINOUS PAV'T. OVERLAY)
		FOR USE WITH BARRIER RAIL & EXPANSION JOINT WITHIN ABUTMENT WALL LIMITS
110-110A	CPJ-450	DETAIL OF STANDARD PLAIN AND REINFORCED CEMENT CONCRETE PAVEMENT
		AND BRIDGE END SLAB JOINTS
210	IF-634	INDUSTRIAL FENCE (3'-12' CHAIN LINK, WITH/WITHOUT BARBED WIRE)
221	M-602	DETAILS OF MONUMENTS TO BE USED FOR REFERENCE OF CARDINAL POINTS OF
		HIGHWAY R.O.W. LINE AND LAND SURVEY CORNERS
303	GA-630-8	SPECIAL DRAWING FOR GUARDRAIL END ANCHOR TYPE 8
306 TO 306-C	GA-630-10	DETAIL OF GUARDRAIL END ANCHOR - SERIES 10 (FLEAT-350, REGENT-350, SRT-350, & SRT-350-HBA)
310	GA-630-13	DETAIL OF GUARDRAIL END ANCHOR - TYPE 13
312-A TO 312-C	GA-630-20	DETAIL OF GUARDRAIL END ANCHOR - SERIES 20 (BEST, ET-PLUS, & SKT-350)
323	GA-630-FD	FLARE DETAIL AND WARRANTY CRITERIA FOR BEAM GUARDRAIL (SHEET 1 OF 2)
323-A	GA-630-FD	FLARE DETAIL AND WARRANTY CRITERIA FOR BEAM GUARDRAIL AND GUARDRAIL
		AT RADIUS (SHEET 2 OF 2)
326	GA-630-S	GALVANIZED STEEL BEAM GUARDRAIL WITH BLOCKED OUT TREATED TIMBER
		OR GALVANIZED STEEL POSTS (SHEET 1 OF 2)
327	GA-630-S	GALVANIZED STEEL BEAM GUARDRAIL WITH BLOCKED OUT TREATED TIMBER
		OR GALVANIZED STEEL POSTS (SHEET 2 OF 2)
408-409	FE-619	DETAIL OF CONCRETE FLARED END SECTION W/ GRATE FOR CONCRETE AND METAL PIPE
411-412	HW-614-8 (PC)	PRECAST SLOPE PAVED HEADWALL DETAILS FOR RCP AND CMP ROADWAY PIPE
413-414	HW-614-8	SLOPE PAVED HEADWALL DETAIL FOR REINFORCED CONCRETE AND
		CORRUGATED METAL ROADWAY PIPE
447-448	RPC-530	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (AND H.D.P.E. PIPE)
501	JB-620-8	DETAILS OF JUNCTION BOX FOR 15" - 60" TYPE-1 (0 - 10' FILL HEIGHT)
645	I-621-S	REINFORCED CONCRETE STORM SEWER INLET TYPE S3 & S4
649 TO 649-B	I-621-SP	PRECAST CONCRETE STORM SEWER INLET TYPE S1 &S2
657	MI-621-Y	DETAILS OF SAFETY INLET TYPE "Y" FOR USE IN MEDIAN DRAIN WHERE DRAINS SLOPE
		IN TWO (2) DIRECTIONS AND CONVERGE IN A LOW POINT OR FOR USE WHERE DRAIN
		SLOPES ONE WAY
661	MIG-621-1	DETAILS OF DUCTILE OR MALLEABLE IRON GRATE CASTINGS FOR USE ON SAFETY
		MEDIAN DRAIN INLETS, TYPE "Y" AND TYPE "X"
665	MIG-621-S	DETAILS OF WELDED STEEL GRATES FOR USE ON SAFETY MEDIAN DRAIN INLETS,
		TYPE "Y" AND TYPE "X"
703	623-XY	DETAILS OF CONCRETE CURBS AND CONCRETE CURB AND GUTTER - MOUNTABLE
		AND BARRIER TYPES
734	SW-618	SPECIAL DRAWING OF WHEEL CHAIR RAMPS AT PEDESTRIAN CROSSWALKS AND
		DETAILS OF SIDEWALKS
738	TO-107	DETAILS OF INTERSECTIONS AND TURNOUTS
801	GN-2	STANDARD DESIGN NOTES FOR PLAN ASSEMBLIES
807	SSEC-1	STANDARD SUPERELEVATION OF CURVES (SHEET 1 OF 8)
809	SSEC-1	STANDARD SUPERELEVATION OF CURVES (SHEET 3 OF 8)
810	SSEC-1	STANDARD SUPERELEVATION OF CURVES (SHEET 4 OF 8)
811	SSEC-1	STANDARD SUPERELEVATION OF CURVES (SHEET 5 OF 8)
902	B-107-2	PERFORATED SQUARE STEEL TUBING (PSST) BARRICADE TYPE I, TYPE II, TYPE III &
		VERTICAL PANELS TYPE I AND TYPE II
1001	MMI-707	DETAIL OF CENTERMOUNT DELINEATORS AND HAZARD MARKERS
1027	PM-705-1	DETAIL OF PAVEMENT MARKERS, CLASS A, A-H AND B
1028	PM-705-2	DETAILS SHOWING APPLICATION OF PAVEMENT MARKERS
1033	PM-705-6	DETAIL SHOWING APPLICATION OF PAVEMENT MARKERS FOR 5-LANE ROADWAYS
1035	PS-701-3	DETAIL OF TRAFFIC STRIPING (FOUR LANES WITH FLUSH OR RAISED MEDIANS)
1036	PS-701-4	STRIPING DETAILS FOR 5 LANE ROADWAYS
1038	PS-701-7	STRIPING DETAILS FOR DROP LANES AND TURN LANES

INDEX NO.	SPEC. OR STD. DWG NO.	DESCRIPTION
1045	TCD-100	DETAILS FOR TRAFFIC CHANNELIZATION DEVICES
1049	TCM-703	PAVEMENT LEGENDS AND MARKINGS DETAILS
1055	T.S.D.-730-1	POWER SOURCE DETAIL FOR TRAFFIC SIGNALS AND TRAFFIC SIGNAL POLES WITH LIGHTING
1056-1057	T.S.D.-730-2 TO 2A	METAL TRAFFIC SIGNAL POLE, LIGHTING AND INSTALLATION DETAILS
1059	T.S.D.-730-4	TRAFFIC SIGNAL POLE FOUNDATION
1066	T.S.D.-730-10	BASE AND POLE MOUNTED CONTROLLER CABINET INSTALLATIONS
1067	T.S.D.-730-11	LOOP WIRE INSTALLATION
1069	T.S.D.-730-13	JUNCTION BOX INSTALLATION
1079	TSOP NO.23 & NO.24	TRAFFIC SIGNAL OPERATING PLAN
1160 TO 1160-A	ESC-100	BEST MANAGEMENT PRACTICE REFERENCE MATRIX
1161	ESC-200	TYPICAL TEMPORARY EROSION/SEDIMENT CONTROL APPLICATIONS
1161-A	ESC-200	DETAILS OF TEMPORARY SLOPE DRAIN, BERMS AND ENERGY DISSIPATOR
1161-B	ESC-200	DETAILS OF SEDIMENT BARRIER APPLICATIONS
1161-C	ESC-200	DETAILS OF SILT FENCE INSTALLATION
1162	ESC-300	DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS
1162-A	ESC-300	TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASEURES,
		SILT FENCE AND HAY BALE DITCH CHECKS
1162-B TO 1162-F	ESC-300	DETAILS OF EROSION CONTROL SANDBAG DITCH CHECK,WATTLE DITCH CHECK,
		SILT DIKE DITCH CHECK, ROCK DITCH CHECK, & ROCK DITCH CHECK WITH SUMP EXCAVATION
1163	ESC-400	INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS
1163-A	ESC-400	ILET PROTECTION DETAILS FOR COARSE AGGREGATE ON GRADES & SAGS
1163-B TO 1163-D	ESC-400	INLET PROTECTION DETAILS OF WATTLES, MANUFACTURED INLET PROTECTION
		DEVICE, &SAND BAG
1164	ESC-501	FLOATING BASIN BOOM
1165	ESC-502	STABILIZED CONSTRUCTION ENTRANCE
1166	ESC-503	TEMPORARY DEWATERING STRUCTURES
1167	ESC-504	TEMPORARY CULVERT STREAM CROSSING
1168	ESC-505	TEMPORARY STREAM DIVERSION
1169	ESC-506	SUSPENDED PIPE DIVERSION (DOWNSTREAM) (SHEET 1 OF 2)
1169-A	ESC-506	SUSPENDED PIPE DIVERSION (UPSTREAM) (SHEET 2 OF 2)
1170	ESC-507	TEMPORARY SEDIMENTATION BASIN
1214	IHS-710-12	DETAILS OF ROADWAY SIGN POST (SMALL CHANNEL AND TUBULAR SECTION)
1225	IHS-710-21	DETAIL FOR LOCATION AND MOUNTING STANDARD FLAT PANEL SIGNS ON U-CHANNEL
		AND TUBULAR POSTS
1229	IHS-710-23	LIGHTWEIGHT STRUCTURAL SIGN SUPPORT INSTALLATIONS
1302	SHS-2	STANDARD HIGHWAY SIGNS
1303	SHS-3	STANDARD HIGHWAY SIGNS
1306	SHS-6	STANDARD HIGHWAY SIGNS
1307	SHS-7	STANDARD HIGHWAY SIGNS
1315	SHS-15	STANDARD HIGHWAY SIGNS
1316	SHS-16	STANDARD HIGHWAY SIGNS
1317	SHS-17	STANDARD HIGHWAY SIGNS
1322	SHS-22	STANDARD HIGHWAY SIGNS
1325	SHS-25	STANDARD HIGHWAY SIGNS
1327	SHS-27	STANDARD HIGHWAY SIGNS
1401-1413	I-131	GENERAL BRIDGE DRAWINGS

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		INDEX TO SHEETS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	1C

PLANS LEGEND SHEET

ROADWAY

55+00

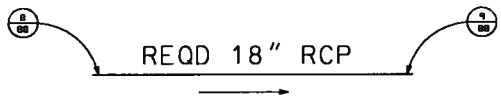
CENTER LINE
STATE BOUNDARY LINE
COUNTY BOUNDARY LINE
CITY OR TOWN LIMITS
SECTION LINES — SEC 22 / SEC 23
QUARTER-SECTION LINES
RANGE-TOWNSHIP LINES — R-17-E / R-18-E
PROPERTY LINES
PRESENT ROW
ACQUIRED ROW
DENIED ACCESS
REQUIRED FENCE
CONSTRUCTION LIMITS — CONST LIM
RAILROAD
WOOD FENCE
BARBED WIRE FENCE
CHAIN LINK FENCE
ELECTRIC FENCE
HOG WIRE FENCE
TREES
WOODS LINE
MARSH
IN-PLACE DITCH
REQUIRED DITCH
GRAVEL ROAD
EXISTING GUARDRAIL
REQUIRED GUARDRAIL
SATELLITE DISH
TRAFFIC LIGHT
BENCH MARK
SURVEY POINT

EXISTING PAVEMENT (RETAIN)
EXISTING PAVEMENT (REMOVE)
CONCRETE SHADING
RIP RAP SHADING

EXISTING PIPE
REQUIRED PIPE (WITH PET)
REQUIRED PET
EXISTING BOX CULVERT
REQUIRED BOX CULVERT
EXTENDED CULVERT
DROP INLET OR JUNCTION BOX (SEE PLANS DESCRIPTION)
BRIDGE
PIPE CULVERT (ELEVATION VIEW) — FL=410.25
BOX CULVERT (ELEVATION VIEW) — FL=420.55

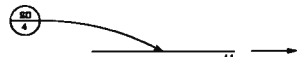
DRAINAGE STRUCTURE INDEX NUMBERS

DRAINAGE STRUCTURE WRITE-UPS ARE LOCATED ON THE DRAINAGE CROSS-SECTION SHEETS. STRUCTURES WITH WRITE-UPS ARE INDEXED AT EACH END, WITH NUMBERS ASSIGNED BY DIRECTION OF FLOW. THE NUMBER IN THE UPPER HALF OF THE CIRCLE (EXAMPLE 8 OR 9) IS THE DRAINAGE STRUCTURE INDEX NUMBER. THE NUMBER IN THE LOWER HALF (EXAMPLE 88) IS THE SHEET REFERENCE NUMBER.



ROADWAY PIPE EXAMPLE

ALL INFORMATION CONCERNING THE DISPOSITION OF SIDE DRAIN PIPE IS SHOWN ON THE SUMMARY OF QUANTITIES BOX SHEET. THE TOP LETTERS (SD) ARE FOR SIDE DRAIN AND THE BOTTOM NUMBER IS THE DRAINAGE STRUCTURE INDEX NUMBER.



SIDE DRAIN PIPE EXAMPLE

DIRECTION OF FLOW

UTILITIES

	EXISTING	PROPOSED
POWER POLE		
LIGHT POLE		
TELEPHONE POLE		
ANCHOR		
STUB (POWER)		
STUB (TELEPHONE)		
ELECTRIC DUCT	EL 4MTD	EL 4MTD
DIRECT BURIAL ELECTRIC CABLE	BE	BE
OVERHEAD ELECTRIC CABLE	OE	OE
ELECTRIC MANHOLE	E	E
TOWER		
TELEPHONE PEDESTAL	T	T
TELEPHONE DUCT	TP 4MTD	TP 4MTD
DIRECT BURIAL TELEPHONE CABLE	BTC	BTC
OVERHEAD TELEPHONE CABLE	OTC	OTC
TELEPHONE MANHOLE	TMH	TMH
SANITARY SEWER	SS	SS
STORM SEWER	STM	STM
SEWER MANHOLE	S	S
WATER LINE	W	W
WATER MAIN	WM	WM
WATER VALVE		
FIRE HYDRANT		
WATER METER		
GAS LINE	G	G
GAS MAIN	GM	GM
GAS VALVE		
GAS REGULATOR		
DIRECT BURIAL CABLE TV	BTV	BTV
OVERHEAD CABLE TV	OTV	OTV

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		PLANS LEGEND SHEET	ROUTE CR-17
DATE:	DATE:	DATE:					

PLANS ABBREVIATION SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	1-D

ABBREVIATIONS

ABANDON(ED)	ABAN
ABUTMENT	ABUT
ACCELERATION	ACCL
ACQUIRED	ACQD
ACRE	AC
AHEAD	AH
ALABAMA	AL
ALABAMA DEPARTMENT OF TRANSPORTATION	ALDOT
ALTERNATE	ALT
APPROXIMATE(LY)	APP
AREA	A
ASPHALT	ASP
AVERAGE ANNUAL DAILY TRAFFIC	AADT
BACK	BK
BACK OF GUARDRAIL	BK-GR
BACKSIGHT	BS
BARBED WIRE	B/W
BARREL	BBL
BARRIER	BAR
BASE LINE	BL or @
BEARING	BRNG
BEGIN	BEG
BEGINNING OF PROJECT	BOP
BETWEEN	BTW
BILLBOARD	BBD
BENCH MARK	BM
BITUMINOUS	BIT
BITUMINOUS COATED CORRUGATED METAL PIPE	BCCMP
BOUNDARY	BDY
BRIDGE	BRG
CAPACITY	CAPY
CAST IRON	CI
CAST IN PLACE	CIP
CATCH BASIN	CB
CENTER LINE	℄
CHAIN LINK	C/L
CLASS	CLS
CONCRETE	CONC
CONNECTION	CONN
CONSTRUCTION LIMITS	CONST LIM
CORNER	COR
CORRECTION	CORR
CORRUGATED IRON	CORI
CORRUGATED METAL	CM
CORRUGATED METAL PIPE	CMP
CORRUGATED PLASTIC PIPE	CPP
COUNTY	CO
COUNTY ROAD	CO-RD
CREEK	CK
CROSS SECTION	X-SECT
CROWN REMOVED	CR
CUBIC FEET	FT3 or CU FT
CUBIC FEET PER SECOND	CFS
CUBIC YARD	YD3 or CU YD
CUBIC METERS	M3
CULVERT	CULV
CULTIVATED	CULT
CURB FACE	CF
CURB AND GUTTER	C&G
CUT	C
CURVE TO SPIRAL	CS
DECELERATION	DECEL
DECLINATION	DECL
DEGREE OF CURVE	D
DENIED ACCESS	D/A
DEPARTURE	DEP
DIAMETER	DIA
DIRECTION	DIR
DISTANCE	DIST
DOUBLE	DBL
DOUBLE BARREL CULVERT	CD
DRAINAGE AREA	DA
DRIVE	DR
DROP INLET	DI
EACH	EA
EASEMENT	ESMT
EAST	E
EAST BOUND ROADWAY	EBR
EDGE OF PAVEMENT	EP
ELEVATION	EL or ELEV
END OF RETURN	ER
END ANCHOR	E/A
END OF PROJECT	EOP
EQUATION	EQ
EXCAVATION	EXCAV
EXISTING	EX
EXPANSION	EXP
EXTENSION	EXT
EXTERNAL	E
EXTRA STRENGTH	EXT STR
FEET	FT
FILL	F
FILTER BLANKET	FLT BLNK
FINISHED GRADE	FG
FINISHED SURFACE	FS
FISCAL YEAR	FY
FIXED	FIX
FLAT BOTTOM	FB
FLOW LINE	FL or ℄

FORESIGHT OR FRONTSIGHT	FST
FRACTIONAL	FRAC
FULL SUPERELEVATION	FS
GALLON	GAL
GASOLINE PUMPS	GPP
GARAGE	GAR
GAUGE	GA
GIRDER	GDR
GOVERNMENT	GOV
GRASS	GRS
GRADE CHANGE	GC
GRADE POINT	GP
GRADE ROD	GRD
GRAVEL	GRV
GUARDRAIL	GR
HEADWALL	HDWL
HECTARE	HA
HIGH WATER MARK	HWM
HEIGHT	HT
HEIGHT OF INSTRUMENT	HI
HIGH WATER	HW
HIGHWAY	HWY
HOGWIRE	H/W
HORIZONTAL	HOR
HUB & TACK	H&T
HYDRANT	HYD
IMPACT ATTENUATOR	IA
IN ACCORDANCE WITH	I/A/W
IN PLACE	IN-PL
INCHES	IN
INCLUDING	INCL
INSTRUMENT	INST
ISLAND	ISL
JOINT	JT
JUNCTION	JCT
JUNCTION BOX	JB
KILOMETER	KM
KILOMETER POST	KMP
KILOMETERS PER HOUR	KPH
LANE	LN
LATITUDE	LAT
LEFT	LT
LEFT AHEAD	LA
LEFT BACK	LB
LENGTH OF CURVE	L
LINK	LK
LIMIT	LIM
LINEAR	LIN
LINEAR FEET	LIN FT
LONGITUDE	LONG
MANHOLE	MH
MARKER	MRK
MAXIMUM	MAX
MEAN HIGH WATER	MHW
MEAN LOW WATER	MLW
MEASUREMENT	MEAS
MEDIAN	MED
METER	M
MERIDIAN	MER
MILE POST	MP
MILES	MI
MILES PER HOUR	MPH
MILLIMETER	MM
MINIMUM	MIN
MONUMENT	MON
MULTIPLE	MULT
NORMAL	NORM
NORMAL CROWN	NC
NORMAL CROWN SLOPE	NCS
NORTH	N
NORTH BOUND ROADWAY	NBR
NORTHING-EASTING	NE
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
NUMBER	NO
OBSERVATION	OBS
ON CENTER	OC
ORIGINAL	ORIG
OVERHEAD	OHD
OVERHAUL	OH
OUT TO OUT	OO
PAINT	PNT
PAVED	PVD
PAVED SHOULDER	PVD SH
PAVEMENT	PVMT
PIPE END TREATMENT	PET
PIPE ENTERING CULVERT	PEC
PLATE GIRDER	PL GDR
POINT OF BEGINNING	POB
POINT OF COMPOUND CURVE	PCC
POINT OF CURVATURE	PC
POINT OF REVERSE CURVATURE	PRC
POINT OF ENDING	POE
POINT OF INTERSECTION	PI
POINT OF TANGENCY	PT
POINT ON CURVE	POC
POUND	LB
PRESENT	PRES
PROFILE GRADE	PG

PROJECT	PROJ
PROJECT CONTROL	PJC
PROPERTY LINE	ℙ
PROPOSED	PROP
QUADRUPLE	QUAD
QUADRUPLE BARREL CULVERT	CQ
QUANTITY	QUANT
RADIUS	R
RAILROAD	RR
RANGE	RGE
RECORD	REC
REDUCTION	RED
REFERENCE	REF
REFERENCE POINT	RP
REFERENCE POINT FOR POINT ON TANGENT	RPPOT
REINFORCED	REINF
REINFORCED CONCRETE	RC
REINFORCED CONCRETE DECK GIRDER	RCDG
REINFORCED CONCRETE PIPE	RCP
REINFORCING STEEL	REINF STL
RELOCATE	RELC
REMOVE	REM
REQUIRED	REQD
RETAIN(ING)	RET
REVERSE CROWN	RC
REVISION	REV
RIGHT	RT
RIGHT AHEAD	RA
RIGHT BACK	RB
RIGHT OF WAY	ROW
RIGHT OF WAY MARKER	ROWM
RIVER	RIV
ROAD	RD
ROADWAY	RDWY
ROLLED EROSION CONTROL PRODUCT	RECP
SECTION	SEC
SERVICE ROAD	SER RD
SHEET	SHT
SHEET PILING	SHT PILE
SHOULDER	SHLD
SIDE DRAIN	SD
SIDEWALK	SW
SIGHT DISTANCE	S DIST
SINGLE BARREL CULVERT	CS
SKEW	SK
SLOPE STAKE	SST
SOLID SODDING	SOL SOD
SOUTH	S
SOUTH BOUND ROADWAY	SBR
SPECIAL	SP
SPECIAL DITCH	SP-DT
SPECIAL DITCH LEFT	SDL
SPECIAL DITCH MEDIAN	SDM
SPECIAL DITCH RIGHT	SDR
SPECIAL DRAWING	SP-DWG
SPECIFICATIONS	SPEC
SPRING LINE	SL
SPIRAL TO CURVE	SC
SPIRAL POINT OF INTERSECTION	SPI
SPIRAL TO TANGENT	ST
SQUARE	SQ
SQUARE FEET	FT2 or SQ FT
SQUARE METERS	M2
SQUARE YARD	YD2 or SQ YD
STAKE	STK
STANDARD	STD
STANDARD DRAWING	STD-DWG
STANDARD STRENGTH	STD STR
STATION	STA
STATION & ELEVATION	S/E
STATION & OFFSET	SO
STOPPING SIGHT DISTANCE	SSD
STREET	ST
STRUCTURE	STR
SUB-GRADE	SG
SUPERELEVATION	SE
SURVEY	SRV
SYMMETRICAL	SYM
TANGENT	TAN
TANGENT LENGTH (CURVE DATA)	T
TANGENT TO SPIRAL	TS
TEMPORARY	TEMP
TEMPORARY BENCH MARK	TBM
THROAT	TH
TOWNSHIP	TSHP
TRIPLE	TR
TRIPLE BARREL CULVERT	CT
TURN OUT	TO
TURNING POINT	TP
TYPE	TY
UNIT	U
UNPAVED	UNPVD
VALLEY GUTTER	VG
VARIABLE	VAR
VERTICAL	VERT
VERTICAL CURVE	VC
VERTICAL POINT OF CURVATURE	PVC
VERTICAL POINT OF INTERSECTION	PVI
VERTICAL POINT OF TANGENCY	PVT
VITRIFIED	VIT

VOLUME	VOL
WEST	W
WEST BOUND ROADWAY	WBR
WING WALL	WW
WITNESS CORNER	WC
WOOD	WD
WORKING POINT	WP
WOVEN WIRE	W/W
YARD	YD

STRUCTURES

NUMBER OF STORIES	1, 2, 3, 4
FRAME	FR
BUILDING	BLDG
BLOCK	BLK
BRICK	BR
STUCCO	STU
METAL	MET
RESIDENCE	RES
BUSINESS	BUS
WAREHOUSE	WHSE
CHICKEN HOUSE	CH HSE
CHURCH	CH
SCHOOL	SCH
DOUBLE WIDE MOBILE HOME	DW MH
MOBILE HOME	MH

UTILITIES

ANCHOR WIRE	AW
BURIED ELECTRIC	BE
BURIED FIBER OPTIC	BFO
BURIED TELEPHONE CABLE	BTC
BURIED CABLE TELEVISION	BTV
CAST IRON	CI
CIRCUIT	CKT
DUCTILE IRON	DUC IRON
EASEMENT	ESMT
FIBER OPTIC	FO
FIRE HYDRANT	FH
FORCED MAIN (SANITARY SEWER)	FM
GAS MAIN	GM
GAS METER	GMET
GAS VALVE	GV
GUY WIRE	GUY
KILOVOLT AMPS	KVA
MANHOLE	MH
MERCURY VAPOR LIGHT	MVL
OVERHEAD FIBER OPTIC	OFO
OVERHEAD TELEPHONE CABLE	OTC
OVERHEAD ELECTRIC CABLE	OE
OVERHEAD CABLE TELEVISION	OTV
PAIR	PR
PEDESTAL	PED
POLY-VINYL CHLORIDE PIPE	PVC
POWER POLE	PP
SANITARY SEWER	SS
SERVICE	SERV
STEEL	STL
STORM DRAIN	STM
STORM SEWER	STMS
SWITCH	SW
TELEPHONE	TEL
TELEPHONE MANHOLE	TMH
TRANSFORMER	TRAN
TRANSMISSION LINE	TR LN
TRIAXIAL CABLE (SERVICE)	TRIX
VITRIFIED CLAY PIPE	VCP
WATER MAIN	WM
WATER METER	WMET
WATER VALVE	WV

PROPERTY

DEED BOOK	DB
REAL PROPERTY BOOK	RP
PLAT BOOK	PB
MAP BOOK	MB
PAGE	PG
OFFICIAL RECORD	OR
CAPPED (TYPICAL PLASTIC SURVEYORS CAP)	CAP
ALUMINUM CAP	ALUM CAP
BRASS CAP	BR CAP
IRON PIPE	IP
CRIMPED	CR
REINFORCING STEEL	REBAR
CONCRETE MONUMENT	CM
DAMAGED	DAM
CHISELED X	CH"X"
HUB AND TACK	H&T
NAIL AND BOTTLE TOP	N&BT
PARKER-KALON (MASONARY NAILS)	PK NAIL
FENCE POST	F-POST
RAILROAD IRON	RR IRON
COTTON SPINDLE	COT SP
ANGLE IRON	ANGLE IRON

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

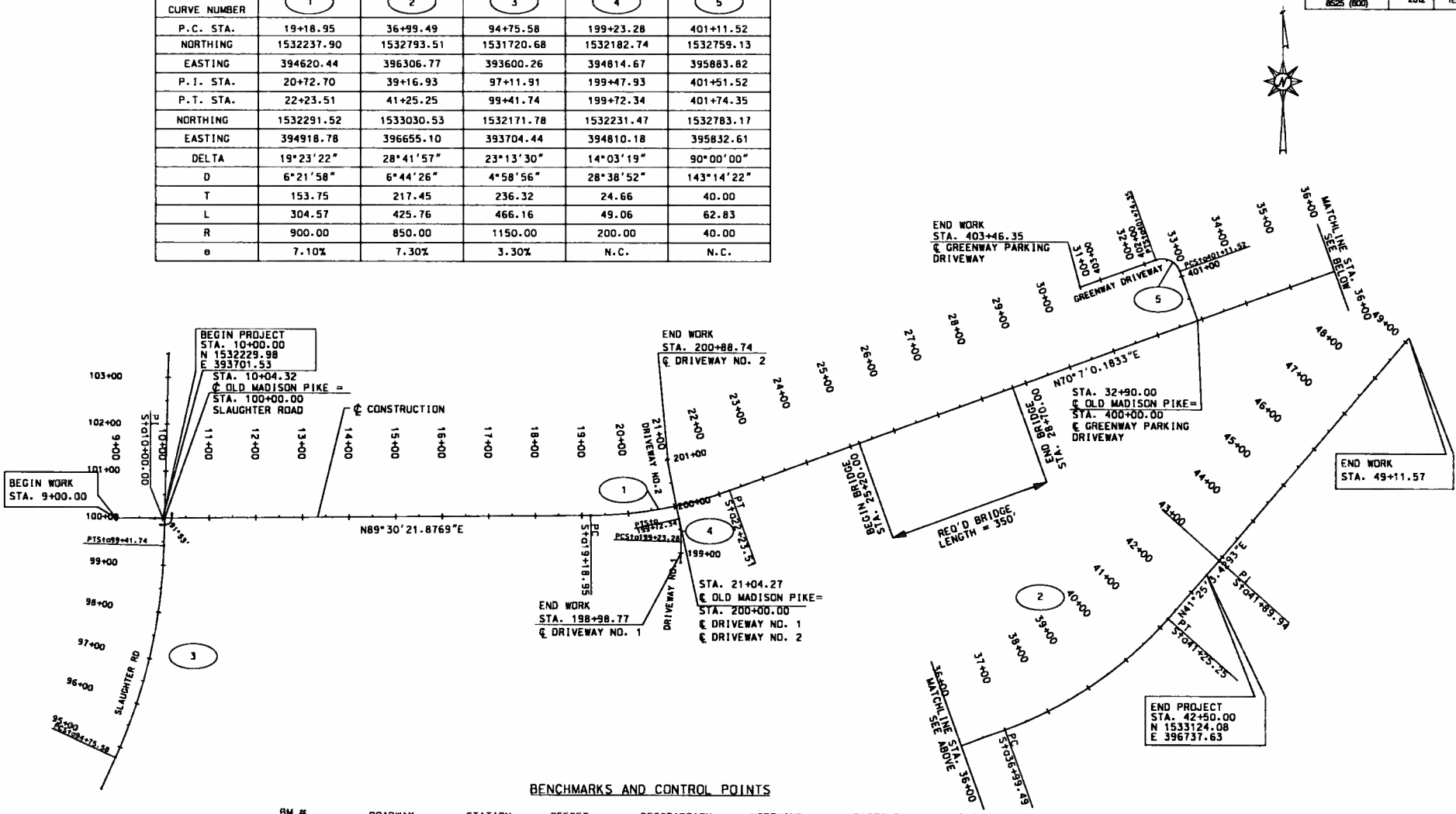
ALABAMA DEPARTMENT OF TRANSPORTATION

PLANS ABBREVATION SHEET

ROUTE CR-17

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	1E

CURVE NUMBER	1	2	3	4	5
P.C. STA.	19+18.95	36+99.49	94+75.58	199+23.28	401+11.52
NORTHING	1532237.90	1532793.51	1531720.68	1532182.74	1532759.13
EASTING	394620.44	396306.77	393600.26	394814.67	395883.82
P.I. STA.	20+72.70	39+16.93	97+11.91	199+47.93	401+51.52
P.T. STA.	22+23.51	41+25.25	99+41.74	199+72.34	401+74.35
NORTHING	1532291.52	1533030.53	1532171.78	1532231.47	1532783.17
EASTING	394918.78	396655.10	393704.44	394810.18	395832.61
DELTA	19°23'22"	28°41'57"	23°13'30"	14°03'19"	90°00'00"
D	6°21'58"	6°44'26"	4°58'56"	28°38'52"	143°14'22"
T	153.75	217.45	236.32	24.66	40.00
L	304.57	425.76	466.16	49.06	62.83
R	900.00	850.00	1150.00	200.00	40.00
e	7.10%	7.30%	3.30%	N.C.	N.C.



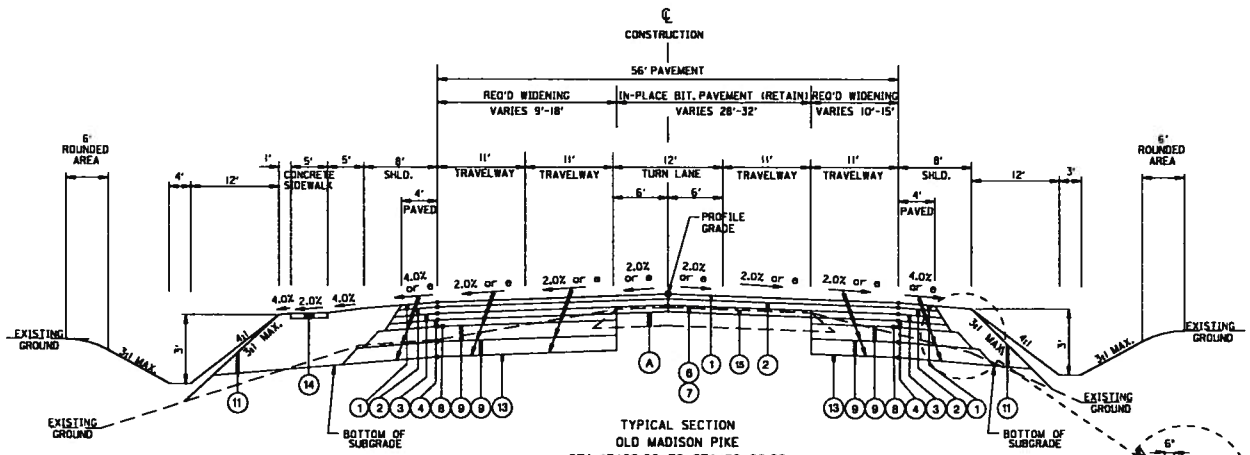
BENCHMARKS AND CONTROL POINTS

BM #	ROADWAY	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	BM ELEVATION
#1	OLD MADISON PIKE	10+73.23	99.16' LT.	IRON ROD W/ CAP	1532329.77	393773.91	665.44
#2	OLD MADISON PIKE	20+48.13	25.79' RT.	IRON ROD W/ CAP	1532222.78	394753.01	626.96
#3	OLD MADISON PIKE	36+58.09	108.60' RT.	CONC. MON	1532677.30	396304.77	634.69
#4	OLD MADISON PIKE	42+71.95	87.36' RT.	IRON ROD W/ CAP	1533082.75	396817.66	664.26
#5	OLD MADISON PIKE	N/A	N/A	IRON ROD W/ CAP	1533531.85	396983.71	691.30

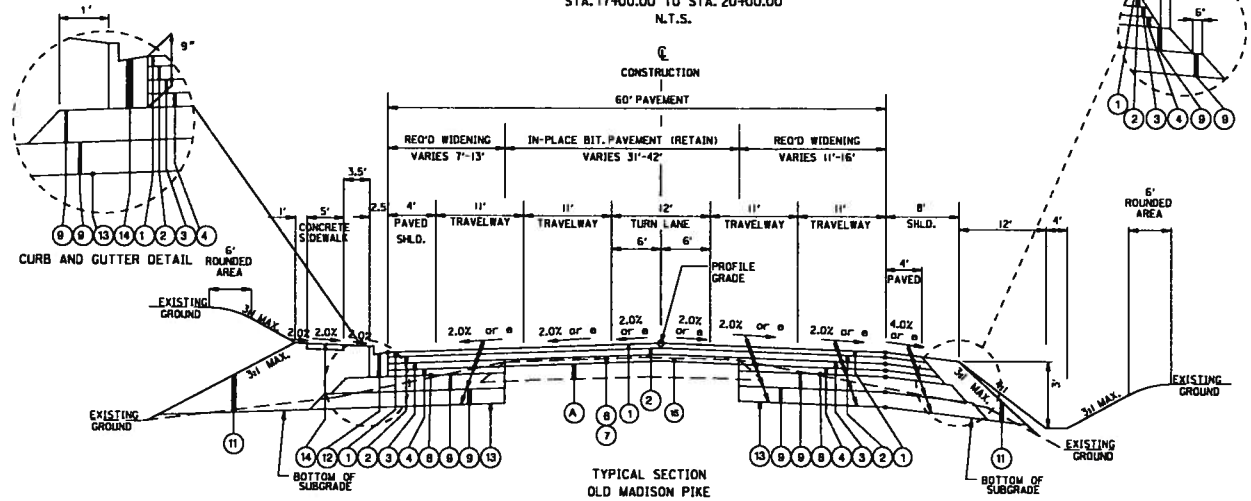
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	GEOMETRIC CONTROL LAYOUT AND DATA	ROUTE CR-17
DATE:	DATE:	DATE:				

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	2

TYPICAL SECTIONS

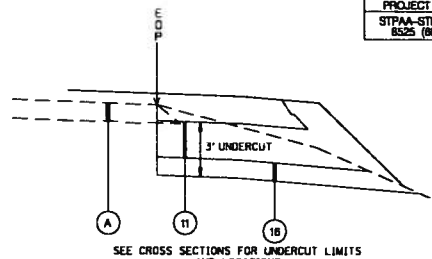


TYPICAL SECTION
OLD MADISON PIKE
STA. 17+00.00 TO STA. 20+00.00
N.T.S.



CURB AND GUTTER DETAIL

TYPICAL SECTION
OLD MADISON PIKE
STA. 10+00.00 TO STA. 17+00.00
N.T.S.



SEE CROSS SECTIONS FOR UNDERCUT LIMITS AND LOCATIONS.
OLD MADISON PIKE
STA. 17+40.00 TO STA. 19+50.00
(RT & LT)

PROJECT NOTES
200 204
201 205
202 206
203

GN-2 NOTES
124 126

REQUIRED MATERIALS LEGEND

LEGEND#	ITEM#	ITEM DESCRIPTION
1	424A-361	Superpave Bituminous Concrete Wearing Surface Layer. 3/4" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 165#/SY)
2	424B-651	Superpave Bituminous Concrete Upper Binder Layer. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 275#/SY)
3	424B-681	Superpave Bituminous Concrete Lower Binder Layer. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 275#/SY)
4	424C-360	Superpave Bituminous Concrete Base Layer. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 280#/SY)
6	424B-658	Superpave Bituminous Concrete Upper Binder Layer. Leveling. 3/4" Maximum Aggregate Size Mix. ESAL Range C/D (As Needed 0 - 1400#/SY)
8	404A-000	Bituminous Treatment A (Width varies 27' - 67')
9	301A-008	Crushed Aggregate Base Course. Type B. Plant Mixed. 5" Compacted Thickness (Width varies 27' - 68')
11	210A-000/2100-000	Unclassified and/or Borrow Excavation
12	623C-000	Combination Curb & Gutter. Type "C"
13	230A-000	Roadbed Processing (Width varies 29' -70')
14	618A-000	Concrete Sidewalk. 4" Thick
15	408A-051	Planing Existing Pavement (Approximately 0.00" thru 1.0" Thick)(1" Actual Thickness)
16	210F-005	Borrow Excavation (Lightweight Aggregate)(ALDOT #2 Stone)(1' Thick)
A		In-Place Bituminous Pavement (RETAIN 5.5" of asphalt minus 1" planing)
B		In-Place Bituminous Pavement (REMOVE)(Approx. 5.5" Thick)

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

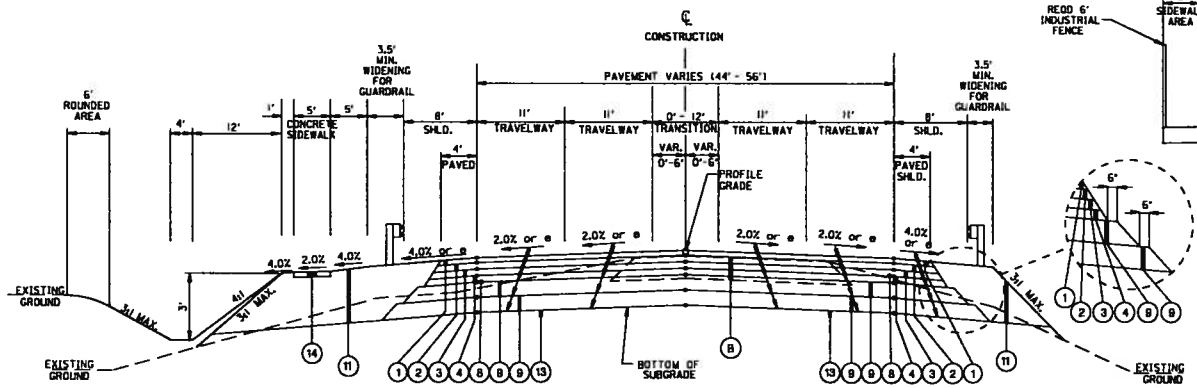
ALABAMA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

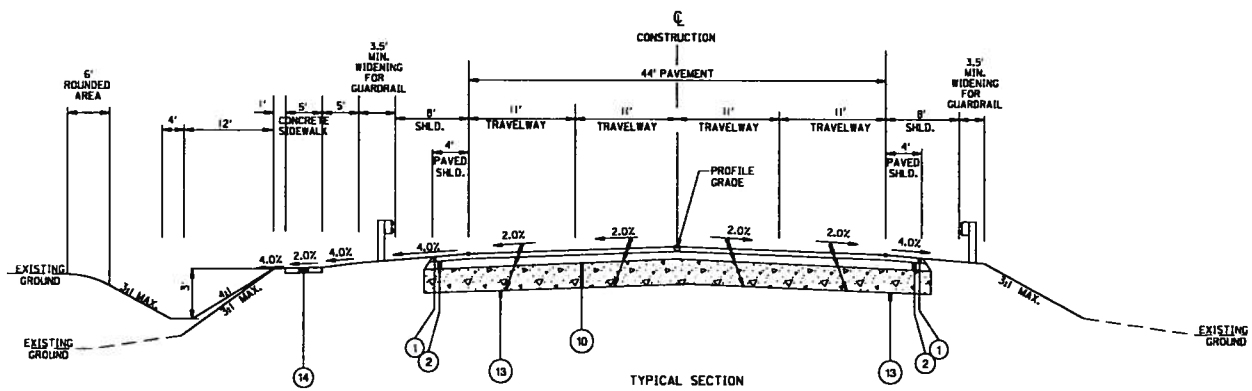
ROUTE CR-17

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPH-8525 (800)	2012	2A

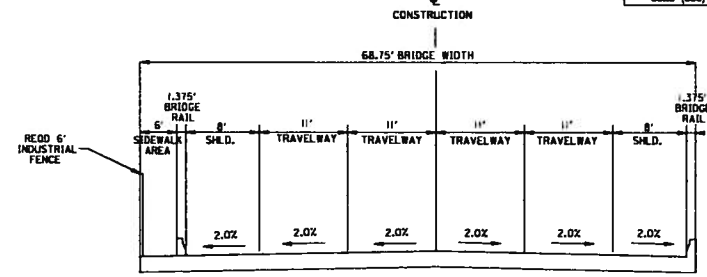
TYPICAL SECTIONS



TYPICAL SECTION
OLD MADISON PIKE
STA. 20+00.00 TO STA. 25+00.00
STA. 28+90.00 TO STA. 37+11.05
N.T.S.



TYPICAL SECTION
OLD MADISON PIKE
STA. 25+00.00 TO STA. 25+20.00
STA. 28+70.00 TO STA. 28+90.00
(BRIDGE END SLAB)
N.T.S.



TYPICAL SECTION
OLD MADISON PIKE
STA. 25+20.00 TO STA. 28+70.00
(REQD BRIDGE)
N.T.S.

PROJECT NOTES
200 204
201 205
202 206
203

GN-2 NOTES
124 126

REQUIRED MATERIALS LEGEND

LEGEND#	ITEM#	ITEM DESCRIPTION
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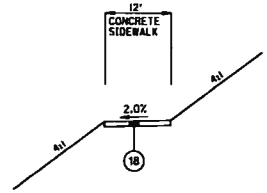
2	424B-651	Superpave Bituminous Concrete Upper Binder Layer. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 275#/SY)
3	424B-681	Superpave Bituminous Concrete Lower Binder Layer. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 275#/SY)
4	424C-360	Superpave Bituminous Concrete Base Layer. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 280#/SY)
8	404A-000	Bituminous Treatment A (Width varies 53.5' - 69')
9	301A-008	Crushed Aggregate Base Course. Type B. Plant Mixed. 5" Compacted Thickness (Width varies 53.5' - 70')
10	450B-000	Reinforced Cement Concrete Bridge End Slab (9" Thick)
11	210A-000/2100-000	Unclassified and/or Borrow Excavation
12	623C-000	Combination Curb & Gutter. Type "C"
13	230A-000	Roadbed Processing (Width varies 55.5' - 72')
14	618A-000	Concrete Sidewalk. 4" Thick
18	618A-001	Concrete Sidewalk. 6" Thick
8		In-Place Bituminous Pavement (REMOVE)(Approx. 6" Thick)

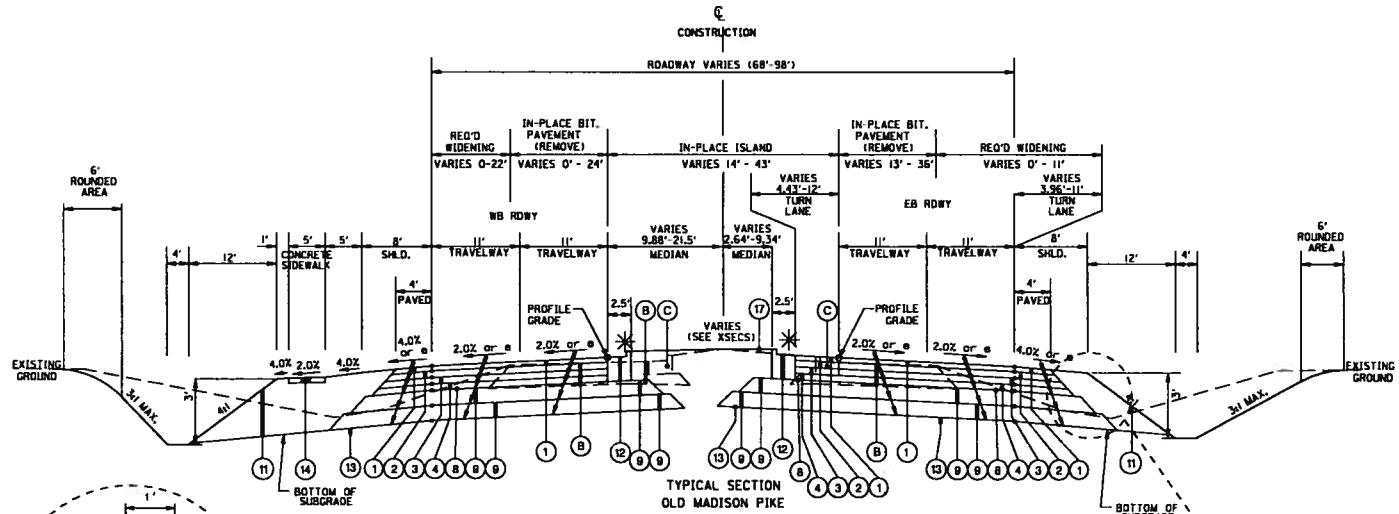


12' SIDEWALK DETAIL
TO GREENWAY ENTRANCE
STA. 24+13 TO STA. 26+64 (LT)

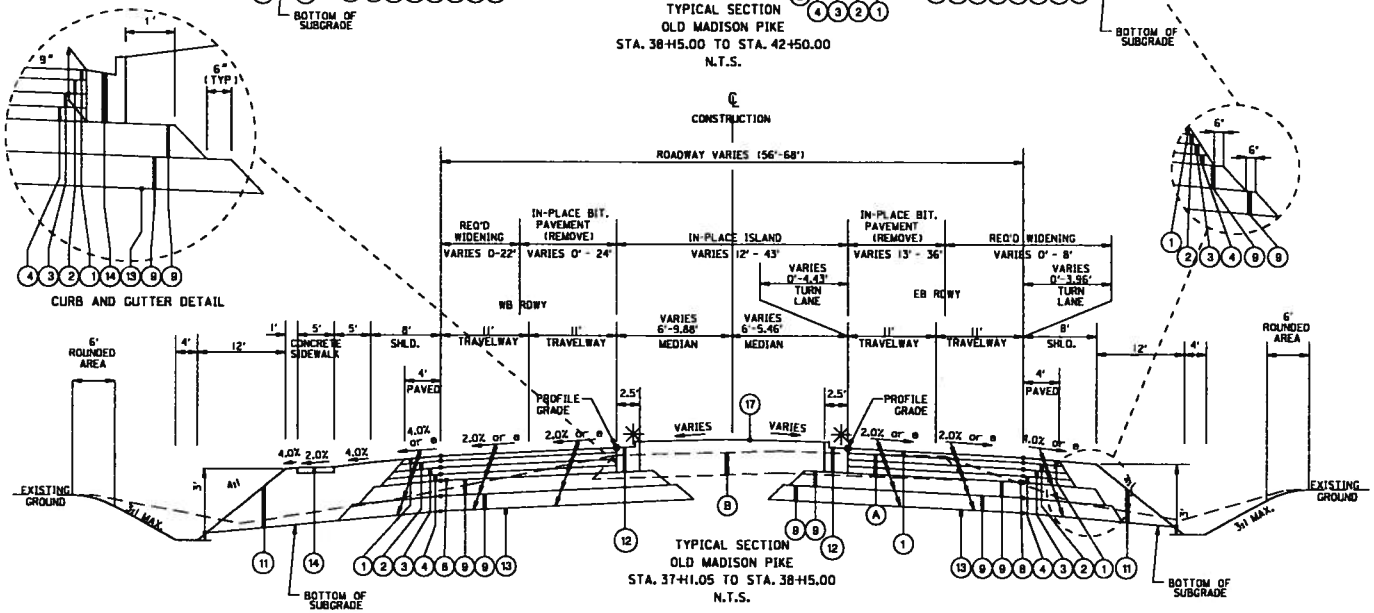
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		TYPICAL SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	2-8

TYPICAL SECTIONS



TYPICAL SECTION
OLD MADISON PIKE
STA. 38+15.00 TO STA. 42+50.00
N.T.S.



TYPICAL SECTION
OLD MADISON PIKE
STA. 37+11.05 TO STA. 38+15.00
N.T.S.

CURB AND GUTTER DETAIL

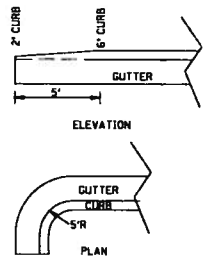
NOTE: GUTTER SLOPE TO MATCH PAVEMENT CROSS-SLOPE.

PROJECT NOTES
200 204
201 205
202 206
203

GN-2 NOTES
124 126

REQUIRED MATERIALS LEGEND

LEGEND#	ITEM#	ITEM DESCRIPTION
1	424A-361	Superpave Bituminous Concrete Wearing Surface Layer. 3/4" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 165#/SY)
2	424B-651	Superpave Bituminous Concrete Upper Binder Layer. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 275#/SY)
3	424B-681	Superpave Bituminous Concrete Lower Binder Layer. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 275#/SY)
4	424C-360	Superpave Bituminous Concrete Base Layer. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 280#/SY)
8	404A-000	Bituminous Treatment A (Width varies 62' - 85')
9	301A-008	Crushed Aggregate Base Course. Type B. Plant Mixed. 5" Compacted Thickness (Width varies 62' - 85')
11	210A-000/2100-000	Unclassified and/or Borrow Excavation
12	623C-000	Combination Curb & Gutter. Type "C"
13	230A-000	Roadbed Processing (Width varies 64' - 88')
14	618A-000	Concrete Sidewalk. 4" Thick
15	408A-051	Planing Existing Pavement (Approximately 0.00" thru 1.0" Thick)
17	650A-000	Topsoil (4" Thick)
A		In-Place Bituminous Pavement (RETAIN) (5.5" Thick)
B		In-Place Bituminous Pavement (REMOVE)(Approx. 6" Thick)
C		In-Place Curb & Gutter (REMOVE)



TYPICAL TYPE C CURB AND GUTTER TERMINATION DETAILS
N.T.S.

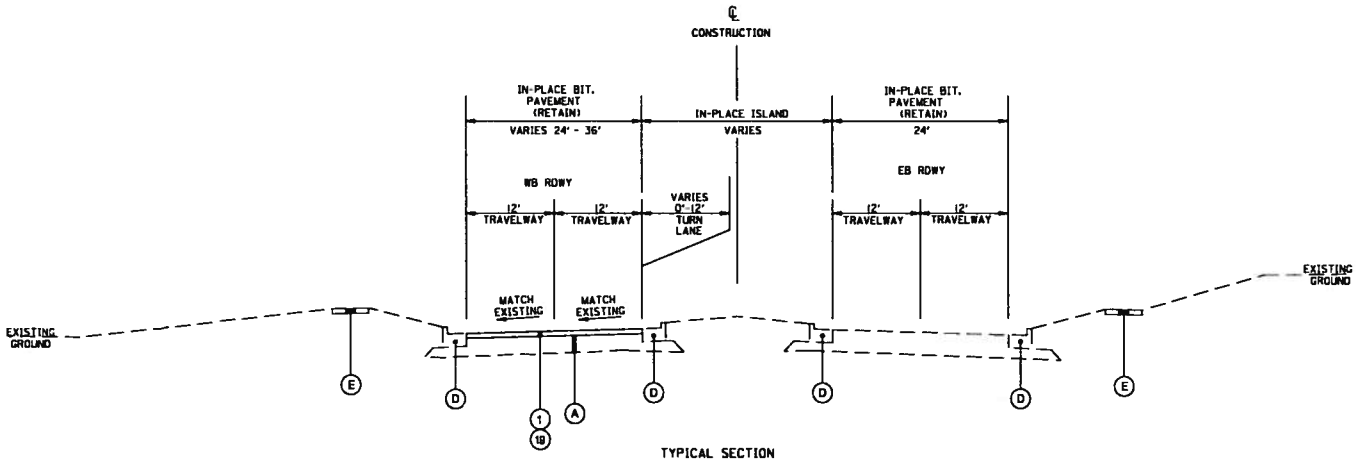
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:				

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	2C

TYPICAL SECTIONS

PROJECT NOTES
200 204
201 205
202 206
203

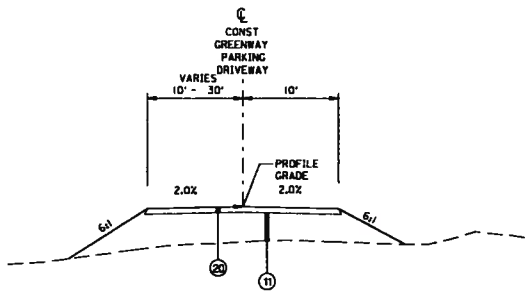
GN-2 NOTES
124 126



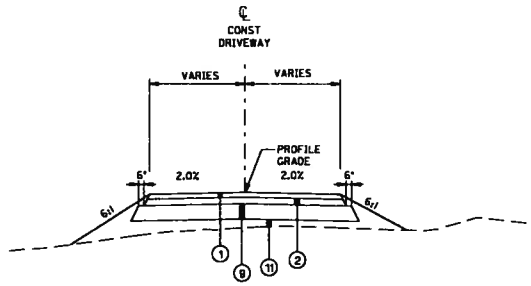
TYPICAL SECTION
OLD MADISON PIKE
STA. 42+50.00 TO STA. 49+11.57
N.T.S.

REQUIRED MATERIALS LEGEND

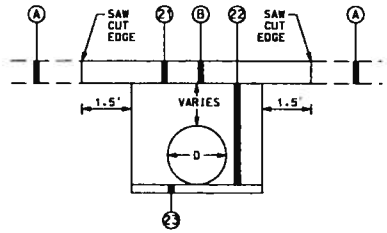
LEGEND#	ITEM#	ITEM DESCRIPTION
1	424A-361	Superpave Bituminous Concrete Wearing Surface Layer. 3/4" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 165#/SY)
2	424B-651	Superpave Bituminous Concrete Upper Binder Layer. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 275#/SY)
9	301A-008	Crushed Aggregate Base Course. Type B. Plant Mixed. 5" Compacted Thickness
11	210A-000/2100-000	Unclassified and/or Borrow Excavation
17	650A-000	Topsoil (4" Thick)
19	408A-052	Planing Existing Pavement (Approximately 1.10" thru 2.0" Thick)(1.5" Actual Thickness)
20	430B-014	Aggregate Surfacing (ALDOT #410 Modified) (3" Thick)
21	424C-364	Superpave Bituminous Concrete Base Layer. Patching. 1" Maximum Aggregate Size Mix. ESAL Range C/D (Approximately 600#/SY)
22	305B-078	Crushed Aggregate. Section 825. Type B. For Miscellaneous Use
23	214B-001	Foundation Backfill (Commercial)
A		In-Place Bituminous Pavement (RETAIN) (5.5" Thick)
D		In-Place Curb & Gutter (RETAIN)
E		In-Place Concrete Sidewalk (RETAIN)



TYPICAL SECTION
GREENWAY PARKING DRIVEWAY
STA. 400+43.51 TO STA. 403+46.35
N.T.S.



TYPICAL SECTION
BITUMINOUS CONCRETE DRIVEWAY
N.T.S.



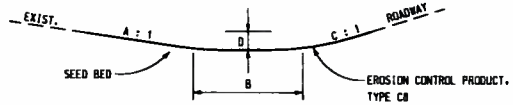
PAVEMENT
OPEN CUT DETAIL

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:				

DITCH TYPICAL SECTIONS

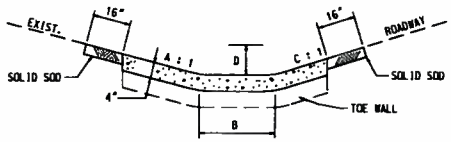
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	2-D

EROSION CONTROL PRODUCT.
TYPE C8 LINED DITCH



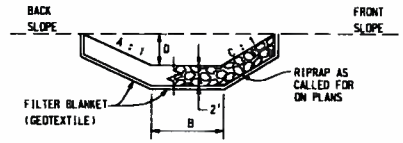
ROADWAY	STA. TO STA.		SIDE	LENGTH	A	B	C	D
OLD MADISON PIKE	17+00	19+70	RT	270	3	8	4	3.0
	18+50	21+00	LT	250	3	4	4	1.5
	23+00	25+00	LT	200	3	4	4	2.0
	22+00	25+34	RT	334	3	8	3	3.5
	36+00	42+00	RT	600	3	4	4	1.5

SLOPE PAVED DITCH



ROADWAY	STA. TO STA.		SIDE	LENGTH	A	B	C	D
OLD MADISON PIKE	35+50	42+00	LT	650	3	4	4	1.5

RIPRAP LINED DITCH



RIPRAP LINING DITCH									
ROADWAY	STATION	TO	STATION	SIDE	LENGTH	A	B	C	D
OLD MADISON PIKE	11+32	TO	12+50	RT	98	2	10	2	4.0
	34+77	TO	35+50	LT	73	3	4	3	2.0

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	DITCH TYPICAL SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:				

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	2E

PROJECT NOTES

PROJECT NO. STPAA-STPHV-8525 (600)
MADISON COUNTY

NOTE NO.	NOTES
200	TO OBTAIN PROPER WIDTHS, TRANSITIONS, AND TAPERS, PAVING LAYOUT SHEETS MUST BE USED IN CONJUNCTION WITH TYPICAL SECTIONS.
201	ROADBED PROCESSING WILL NOT BE REQUIRED WHERE THE WIDTH OF CONSTRUCTION IS LESS THAN 6 FEET. THE SUBGRADE SHALL BE COMPACTED TO 100% AS PER AASHTO T-99; THE COST OF THIS WORK IS TO BE A SUBSIDIARY OBLIGATION OF THE ITEM PLACED ABOVE.
202	NO INFORMATION ON THE EXISTING ASPHALT SURFACE IS AVAILABLE.
203	MAINLINE BUILD-UP SHALL BE USED TO THE BACK OF RADIUS AT ALL SIDEROADS.
204	IN AREAS OF UNDERWATER EMBANKMENT, UTILITY POLES SHALL BE SURROUNDED BY A 10' X 10' AREA OF NO. 2 STONE IN LIEU OF UNDERWATER EMBANKMENT.
205	IN AREAS OF UNDERWATER EMBANKMENT FROM STA. 28+55 TO STA. 28+75, NO. 2 STONE SHALL BE USED IN LIEU OF UNDERWATER EMBANKMENT.
206	ROADBED PROCESSING WILL NOT BE REQUIRED AT DRIVEWAYS. THE SUBGRADE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER; THE COST OF THIS WORK IS TO BE A SUBSIDIARY OBLIGATION OF THE ITEM PLACED ABOVE.

NOTE NO.	NOTES
300	ITEMS TO BE REMOVED THAT ARE NOT PROVIDED FOR BY PAY ITEM OR SPECIFICALLY MENTIONED BY NOTE TO BE INCLUDED IN OTHER ITEMS OF WORK SHALL BE REMOVED IN ACCORDANCE WITH THE REQUIREMENTS FOR EXTRA WORK GIVEN IN ARTICLE 104.03 OF THE STANDARD SPECIFICATIONS.
301	OMIT
302	TEMPORARY PAVEMENT MARKERS SHALL BE OF THE PERMANENT TYPE MEETING THE REQUIREMENTS OF SUB-ARTICLE 882.02 OF THE STANDARD SPECIFICATIONS.
400	THE CITY OF HUNTSVILLE WILL PROVIDE AND INSTALL BIKE ROUTE AND SHARE THE ROAD SIGNS BEFORE THE ROUTE IS OPENED TO TRAFFIC.
800	THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THEY SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
900	A NOTICE OF INTENT FOR NPDES PERMIT COVERAGE HAS NOT BEEN FILED WITH ADEM FOR THIS PROJECT. A COPY OF THE CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP) IS AVAILABLE THROUGH THE OFFICE ENGINEER PRIOR TO BIDDING.
901	THERE SHALL BE NO FUEL TANKS STORED ON THE ROW. IN ADDITION, NO FUEL TRUCKS OR VEHICLES TRANSPORTING CHEMICALS, FERTILIZER, ETC., SHALL BE LEFT UNATTENDED ON THE RIGHT-OF-WAY.

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		OLD MADISON PIKE PROJECT NOTES	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	2F

TRAFFIC SIGNAL PLAN NOTES

IN THE EVENT CONFLICTS OCCUR BETWEEN THE PROJECT TRAFFIC SIGNAL NOTES AND THE MUTCD .THE MUTCD WILL GOVERN.

500. WHEN THE CONTROLLER IS IN THE FLASHING MODE. THE VEHICULAR SIGNAL HEADS SHALL FLASH YELLOW ON OLD MADISON PIKE. RED ON ALL CROSS STREETS. AND RED ON PROTECTED LEFT TURNS.

501. ALL EXISTING TRAFFIC CONTROL EQUIPMENT. TEMPORARY OR PERMANENT. WHICH IS THE PROPERTY OF THE STATE INCLUDING SIGNAL HEADS. CONTROLLERS. POLES. AND MISCELLANEOUS HARDWARE SHALL BE REMOVED UPON COMPLETION OF THE NEW TRAFFIC INSTALLATION AND STORED TO COMPLY WITH SECTION 730.03 OF THE STANDARD SPECIFICATIONS.

502. ALL EXISTING TRAFFIC CONTROL EQUIPMENT WHICH IS THE PROPERTY OF THE CITY OF HUNTSVILLE INCLUDING SIGNAL HEADS. CONTROLLERS. POLES AND MISCELLANEOUS HARDWARE SHALL BE REMOVED UPON COMPLETION OF THE NEW TRAFFIC CONTROL INSTALLATION. EQUIPMENT SHALL BE STORED TO COMPLY WITH SECTION 730.03 OF THE STANDARD SPECIFICATIONS.

503. THE POWER SOURCE SHOWN ON THE PLANS IS APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF THE POWER SOURCE AND SHORTEST AND MOST DIRECT ROUTE TO SERVE THE CONTROLLER AND TRAFFIC SIGNAL LUMINAIRES.

504. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES TO LOCATE ALL OVERHEAD AND UNDERGROUND UTILITIES. WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR DAMAGES TO THE UTILITIES CAUSED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY COMPANY. THE CONTRACTOR SHALL BEAR ALL COSTS TO REPAIR ANY AND ALL DAMAGES TO THE UTILITIES CAUSED BY THE CONTRACTOR.

505. EACH REQUIRED TRAFFIC SIGNAL STRAIN POLE MAY VARY IN HEIGHT. THE CONTRACTOR SHALL ASCERTAIN THAT ALL POLE HEIGHTS ARE SUFFICIENT TO PROVIDE EACH VEHICULAR SIGNAL HEAD THE CLEARANCE SHOWN IN THE STANDARD DETAIL. THE CONTRACTOR SHALL PROVIDE EXTENSIONS FOR MOUNTING VEHICULAR SIGNALS WHEN NECESSARY.

506. EACH MAST ARM MAY VARY IN LENGTH. THE CONTRACTOR SHALL ASCERTAIN THAT ALL MAST ARM LENGTHS ARE SUFFICIENT TO PROVIDE EACH VEHICULAR SIGNAL HEAD LANE POSITION THAT CONFORMS TO THE MUTCD. THE MAST ARM SHALL BE MOUNTED AT A HEIGHT SO THAT THE VEHICULAR SIGNAL HEADS COMPLY WITH THE CLEARANCE SHOWN ON THE STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE EXTENSIONS FOR MOUNTING SIGNALS WHEN NECESSARY.

507. THE CONTRACTOR SHALL LOCATE EACH REQUIRED VEHICULAR SIGNAL HEAD ON THE SPAN WIRE TO INSURE THAT THE VEHICULAR SIGNAL HEAD IS LOCATED IN THE APPROACH LANE FOR WHICH IT APPLIES. LOCATION OF VEHICULAR SIGNAL HEADS SHALL CONFORM TO THE MUTCD.

508. FROM THE DATE TIME CHARGE BEGINS THE CONTRACTOR SHALL ASSUME TOTAL RESPONSIBILITY FOR ALL EXISTING. TEMPORARY. AND NEW TRAFFIC SIGNAL INSTALLATIONS ON THE PROJECT. THE CONTRACTOR SHALL CONTINUE THE OPERATION AND MAINTENANCE OF ALL THE TRAFFIC SIGNALS UNTIL THE ENTIRE NEW PERMANENT TRAFFIC SIGNAL INSTALLATION IS OPERATIONAL AND ACCEPTED BY ALDOT.

509. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT NEW TRAFFIC SIGNAL INSTALLATIONS AS INDICATED ON THE PROJECT PLANS AND IN THE SPECIFICATIONS. ARE COMPLETELY OPERATIONAL BEFORE REMOVING EXISTING TRAFFIC SIGNAL EQUIPMENT.

510. THE CONTRACTOR. WITHOUT EXTRA COMPENSATION. SHALL BE RESPONSIBLE TO INSURE THE CONTINUAL OPERATION AND MAINTENANCE OF THE EXISTING AND TEMPORARY TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING CONTINUAL OPERATION SHALL INCLUDE THE RELOCATION OF VEHICULAR SIGNAL HEADS DURING CONSTRUCTION AND THE MATERIALS AND LABOR NECESSARY TO INSURE THE CONTINUAL OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.

511. WHEN EXISTING LOOP WIRE AND VEHICLE LOOP DETECTORS ARE TO BE RETAINED AND REUSED. OR RELOCATED IN A NEW CONTROLLER ASSEMBLY CABINET. THE CONTRACTOR SHALL ASCERTAIN THE MANUFACTURER AND MODEL NUMBER OF EXISTING DETECTOR AMPLIFIERS AND PROVIDE A NEW WIRING HARNESS COMPLETELY WIRED IN THE CONTROLLER CABINET FOR EACH EXISTING DETECTOR AMPLIFIER.

512. THE ALABAMA DEPARTMENT OF TRANSPORTATION RESERVES THE RIGHT TO RESPOND TO TRAFFIC SIGNAL MALFUNCTIONS IN EMERGENCIES OR NATURAL DISASTER. IN DOING SO THE CONTRACTOR'S LIABILITY AND RESPONSIBILITY RELATED TO MAINTAINING THE TRAFFIC SIGNAL SYSTEM OR UNIT REMAINS IN EFFECT.

513. THE QUANTITIES AND MATERIALS INDICATED ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY ACTUAL QUANTITIES AND MATERIALS.

514. THE TRAFFIC SIGNAL STRAIN POLE LOCATION(S) INDICATED IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL ASCERTAIN THAT THE FINAL POLE LOCATION(S) PROVIDE THE VEHICULAR SIGNAL HEADS POSITIONS SO THAT DISTANCES TO TO THE STOP LINES CONFORM TO THE MUTCD. WHEN PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN CROSSWALKS ARE INVOLVED THE SAME SAID POLE LOCATION(S) SHALL ALSO CONFORM TO THE RELATIVE SECTIONS OF THE MUTCD. THE CONTRACTOR SHALL COORDINATE THE POLE LOCATION(S) WITH THE ENGINEER.

515. WHEN TIMINGS ARE NOT INCLUDED IN THE PLAN ASSEMBLY FOR TIME BASE OR CLOSED LOOP SYSTEMS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO CALCULATE SYSTEM TIMINGS. THE COST OF CALCULATING SYSTEM TIMINGS SHALL BE A SUBSIDIARY OBLIGATION OF 730C.

516. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO INPUT THE TIMINGS AND IMPLEMENT THE FINE TUNING OF TIMINGS. THE COST OF INPUTTING AND FINE TUNING TIMINGS SHALL BE A SUBSIDIARY OBLIGATION OF 730C.

517. THE CITY OF HUNTSVILLE ENGINEER. SHALL BE RESPONSIBLE FOR INPUTTING AND FINE TUNING THE INTERSECTION TIMINGS.

518. IN PLACES WHERE THE EXISTING SPAN WIRE HAS SAGGED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE WIRE SO THAT SIGNAL HEADS COMPLY WITH THE CLEARANCE ON THE STANDARD DRAWINGS. THE COST ASSOCIATED WITH ANY ADJUSTMENTS SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF ITEM 730C.

519. BALANCE ADJUSTERS SHALL BE INSTALLED ON TRAFFIC SIGNAL HEADS AS REQUIRED FOR PROPER AIM AT THE DIRECTION OF THE ENGINEER ON AN APPROACH CASE BASIS . THE CONTRACTOR SHALL ENSURE THAT THE SIGNAL HEADS ARE ALIGNED SO THAT THEY ARE WITHIN 2½ DEGREES OF APPROACHING TRAFFIC AT OR AROUND THE ADVANCED DETECTOR ON THE MAIN ROUTE OR A DISTANCE EQUAL TO THE 5 SECONDS BASED ON APPROACH SPEED FOR THE SIDE STREET(S).

520. BEFORE CUTTING THE REQUIRED LOOP IN THE PAVEMENT. ANY EXISTING LOOPS LOCATED IN THAT AREA SHALL BE SAWED INTO TWO(2) TIMES AND QUADRUPOLE LOOPS THREE(3) TIMES (LONG SIDE) TO PREVENT FALSE READINGS WHEN THE REQUIRED LOOPS ARE PLACED INTO THE PAVEMENT.

521. TRAFFIC SIGNAL MARKING TAPE SHALL BE BURIED OVER CONDUIT OR CONDUCTORS. THE TAPE SHALL BE 4-INCH POLYETHYLENE. RED IN COLOR WITH A BLACK LEGEND.

522. BACKPLATES SHALL BE INSTALLED AS REQUIRED ON THE TRAFFIC SIGNAL LAYOUT SHEET.

523. ON ALL LOOPS THE CONTRACTOR SHALL BE REQUIRED TO PERFORM A LEAKAGE TO GROUND TEST USING A MEG-OHM METER WITH 500 VOLTS APPLIED. THE LOOPS SHALL ALSO BE TESTED AFTER THE LEADS (HOME RUN) ARE PULLED TO THE AMPLIFIER TO DETECT ANY DAMAGE DONE BY INSTALLATION. THIS SAME TEST SHALL BE PERFORMED BY A STATE INSPECTOR CHECKING FOR LEAKAGE. ANY LOOP FAILING TO READ 100 MEGS OR BETTER WILL NOT BE ACCEPTED AND SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

524. LOOP DETECTOR WIRE SHALL BE ONE CONTINUOUS RUN WITHOUT SPLICES.

525. WHEN PVC CONDUIT IS USED FROM THE CONTROLLER TO THE STEEL STRAIN POLE OR MAST ARM POLE. THE CONTRACTOR SHALL BOND THE CONTROLLER TO THE POLE WITH A #6-1C BONDING CABLE.

526. LAMPS USED IN TRAFFIC SIGNAL HEADS SHALL BE LED'S. ANTI-SWAY LAMP DESIGN SHALL BE USED.

527. WHEN REQUIRED BY THE PLANS. ALL DESKTOP COMPUTERS SHALL BE INSTALLED BY THE CONTRACTOR AT LOCATIONS SPECIFIED BY THE PROJECT ENGINEER.

528. THE CONTRACTOR SHALL PROVIDE A SET OF AS-BUILT PLANS TO THE ALDOT DIVISION TRAFFIC ENGINEER.

529. A NOTICE OF REGISTRATION FOR NPDES PERMIT COVERAGE HAS NOT BEEN FILED WITH ADEM FOR THIS PROJECT.

530. LOOP DETECTOR WIRE SHALL BE TYPE USE-2.TYPE RHH OR TYPE RHW-2 XLP.600 V CROSS-LINKED POLYETHYLENE NO.12AWG INSULATED CABLE.WIRE SHALL HAVE A SINGLE CONDUCTOR THAT IS SOFT ANNEALED STRANDED WIRE OF NOT LESS THAN 98 PERCENT CONDUCTIVITY.ALL LOOP DETECTOR WIRES SHALL HAVE AN INSULATION THICKNESS OF 0.045 INCH (45 MILS).THE OUTER JACKET SHALL BE SURFACE PRINTED INDICATING THE MANUFACTURER. NATIONAL RESEARCH TESTING LABORATORY LISTING.MAXIMUM RATED VOLTAGE.AWG SIZE AND THE PROPER TYPE LETTER OR LETTERS FOR THE TYPE OF WIRE EVERY TWO FEET(0.6m) OR LESS.

( ) NOTES THAT APPLY TO THIS PROJECT.

ORIGINAL DATE: 02/02/06
REVISION DATE: 08/16/10

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:	PS&E			TRAFFIC SIGNAL PLAN NOTES	

GENERAL TRAFFIC CONTROL PLAN NOTES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV -8525(800)	2012	2G

( ) DENOTES NOTES THAT APPLY TO THIS PROJECT

(700) THE TRAFFIC CONTROL PLAN IS DEVELOPED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PART 6, 2009 EDITION. THE TRAFFIC CONTROL DEVICES INDICATED REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS WARRANT ADDITIONAL TRAFFIC CONTROL DEVICES, THEY SHALL BE INSTALLED IN CONFORMANCE WITH THE M.U.T.C.D. PART 6 AS DIRECTED BY THE ENGINEER. COST SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEM.

(701) ALL BLACK ON ORANGE CONSTRUCTION SIGNS SHALL BE FABRICATED USING TYPES IV OR VIII FLUORESCENT ORANGE REFLECTIVE SHEETING MATERIAL FOR THE SIGN BACKGROUND.

(702) DURING NON-WORKING HOURS NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING TRAFFIC. WHEN THIS IS NOT PRACTICAL, IT SHALL BE PLACED IN AN AREA DESIGNATED BY THE ENGINEER AND DELINEATED BY REFLECTORIZED DRUMS. THIS INCLUDES STORAGE OF TRAFFIC CONTROL DEVICES SUCH AS TRAILER MOUNTED OR OTHER TEMPORARY SIGNS, BARRICADES, DRUMS, ETC., WHICH ARE NOT IN USE DURING NON-WORKING HOURS. TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT. (SEE SKETCH ON SHEET 51A)

(703) WHERE THE LOCATION OF A REQUIRED SIGN FALLS IN A DRIVEWAY, SIDEWALK, BRIDGE, ETC. OR WHERE THE VISIBILITY OF A SIGN IS LIMITED TO THE TRAVELING PUBLIC, THE LOCATION SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.

(704) THE CONTRACTOR IS TO REMOVE, RELOCATE OR COVER DURING CONSTRUCTION AND THEN RESET OR UNCOVER UPON COMPLETION OF A PARTICULAR SECTION ANY CONFLICTING IN-PLACE ROADWAY SIGNS AND DELINEATORS, AS DIRECTED BY THE ENGINEER. SIGNS REQUIRING REMOVAL SHALL BE STOCKPILED AS DIRECTED BY THE ENGINEER AND SHALL BECOME PROPERTY OF THE ALDOT. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 7408.

(705) DURING ALL PHASES OF WORK, NON-APPLICABLE PAVEMENT STRIPING OR MARKINGS SHALL BE REMOVED AND APPROPRIATE PAVEMENT STRIPING OR MARKINGS SHALL BE PLACED AS EXPEDITIOUSLY AS PRACTICAL, BUT IN ALL CASES, SHALL BE IN PLACE BY NIGHTFALL ON ANY ROADWAY CARRYING TRAFFIC, EXCEPT ON SHORT TERM OPERATIONS WHERE IT IS DETERMINED BY THE ENGINEER, THAT SUCH REMOVAL AND REPLACEMENT IS MORE HAZARDOUS THAN LEAVING EXISTING MARKINGS IN PLACE. COST OF ANY REMOVAL SHALL BE PAID FOR UNDER ITEM 701D OR AS A SUBSIDIARY OBLIGATION OF ITEM 701C.

706 OMITTED

(707) THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS BEFORE PROCEEDING WITH HIS WORK. SIGNS SHALL BE PLACED IN ORDER, IN THE DIRECTION OF TRAFFIC AND REMOVED IN REVERSE ORDER.

(708) ALL VEHICLES, EQUIPMENT, PERSONNEL (EXCEPT FLAGGERS), AND THEIR ACTIVITIES, ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

(709) THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.

(710) CONSTRUCTION SIGNS MOUNTED ON TEMPORARY SUPPORTS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5 FEET.

(711) FLAGGERS SHALL BE PROPERLY ATTIRED, EQUIPPED WITH STAFF MOUNTED STOP/SLOW PADDLES IN SIGHT OF EACH OTHER, OR HAVE DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATION LOCATION MAY BE VARIED FROM THOSE SHOWN BASED ON ROADWAY ALIGNMENT AND CONDITIONS AT THE TIME OF THE LANE CLOSURE.

(712) FLAGGERS ARE TO BE USED WHEN DIRECTED BY THE ENGINEER. SIGNS SHALL BE PLACED AT THE APPROPRIATE TIME, AND SHALL BE COVERED OR REMOVED WHEN FLAGGERS ARE NOT ON DUTY AND DURING NON-WORKING HOURS.

(713) FOR MOVING OPERATIONS, THE TRAFFIC CONES MAY BE DELETED IF THE FLAGGERS ARE IN SIGHT OF EACH OTHER, OR IF A PILOT CAR IS USED ON A TWO LANE ROADWAY.

714 OMITTED

(715) ALL CONTRACTOR'S EMPLOYEES' PERSONAL VEHICLES, AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION, SHALL BE PARKED A MINIMUM OF THIRTY (30) FEET FROM THE TRAVELED WAY DURING WORKING HOURS, AS NOT TO CREATE A HAZARD.

(716) THE TRAFFIC CONTROL PLAN IS NOT ALL INCLUSIVE. THE TCP PROVIDES SEVERAL DETAILED DRAWINGS INDICATING THE TRAFFIC CONTROL NECESSARY FOR THE DIFFERENT CONSTRUCTION ACTIVITIES ANTICIPATED FOR THIS PROJECT. THE CONTRACTOR SHALL SELECT THE DETAILED DRAWING THAT BEST FITS THE ACTIVITY TO BE PERFORMED.

717 OMITTED

718 REQUIRED TEMPORARY ROUTE MARKER ASSEMBLIES THAT ARE TO BE LOCATED IN THE VICINITY OF EXISTING ROUTE MARKERS SHOULD BE PLACED ALONG SIDE OF THOSE ALREADY IN PLACE. SOME EXISTING ROUTE MARKERS MAY HAVE TO BE COVERED OR REMOVED, AS DIRECTED BY THE ENGINEER. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 7408.

719 OMITTED

(720) ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

721 OMITTED

722 OMITTED

(723) THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SAFETY OF PEDESTRIAN TRAFFIC CROSSING THE WORK ZONES DURING CONSTRUCTION.

724 OMIT

(725) ALL SIGNS SHALL BE POST-MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS, EXCEPT FOR THOSE SIGNS WHICH ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS AND REMOVED AT THE COMPLETION OF THE DAY'S OPERATION.

726 OMITTED

(727) DURING THE WIDENING OR RESURFACING OF ANY ROADWAY CARRYING TRAFFIC, THE CONTRACTOR SHALL ADVISE THE MOTORISTS OF ANY EDGE OF PAVEMENT DROP-OFFS 3 INCHES OR GREATER BY PLACING SHOULDER DROP-OFF SIGNS EVERY 1/2 MILE BEGINNING PRIOR TO THE WIDENING OR RESURFACING. REQUIRED SHOULDER WORK TO ELIMINATE THE DROP-OFFS SHALL BE PURSUED IN AN EXPEDITIOUS MANNER FOLLOWING THE WIDENING AND/OR RESURFACING.

(728) A DIFFERENCE IN ELEVATION OF APPROXIMATELY 2 INCHES OR LESS AT THE CENTERLINE MAY BE ALLOWED DURING NON-WORKING HOURS WITHOUT ADDITIONAL TRAFFIC CONTROL. SPECIAL CONDITIONS MAY EXIST WHERE PROTECTION SHOULD BE PROVIDED WHERE THE DIFFERENCE IS 2 INCHES OR LESS.

(729) SIGNS ON TEMPORARY SUPPORTS ARE TO BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED OR AT THE COMPLETION OF THE DAY'S OPERATION.

730 OMITTED

731 OMITTED

(732) CHANNELIZING DRUMS SHOULD BE PLACED ON 10 FOOT INTERVALS IN RADII.

(733) CHANNELIZING DRUMS PLACED TO PROTECT COMPLETED WORK NOT OPEN TO TRAFFIC SHOULD BE SPACED AT 50 FOOT INTERVALS.

(734) CHANNELIZING DRUMS PLACED IN THE EXCAVATED AREA AHEAD OF PAVING OPERATIONS SHOULD BE SPACED AT 50 FOOT INTERVALS.

(735) CHANNELIZING DRUMS PLACED ON PAVEMENT DURING WORKING HOURS SHALL BE SHIFTED TO THE EDGE OF SHOULDER DURING NON-WORKING HOURS AND DURING PEAK PERIODS.

(736) CHANNELIZING DRUMS SHOULD BE PLACED ON 25 FOOT INTERVALS THROUGHOUT ALL TAPERS.

(737) CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.

738 OMITTED

(739) THE QUANTITIES SHOWN IN THE TRAFFIC CONTROL SUMMARY BOX ARE CONSIDERED TO BE THE MINIMUM REQUIREMENT FOR HANDLING TRAFFIC AT ANY GIVEN TIME DURING CONSTRUCTION.

740 LIGHTWEIGHT TYPE B WARNING LIGHTS (WEIGHING 3.3 POUNDS OR LESS) WITH DETACHABLE HEADS MAY BE USED ON DRUMS IN SPECIAL SITUATIONS AS SHOWN ON THE PLANS. TYPE B WARNING LIGHTS WITH DETACHABLE HEADS USED ON BARRICADES SHALL BE LIGHTWEIGHT (WEIGHING 3.3 POUNDS OR LESS). ANY HEAVYWEIGHT WARNING LIGHTS ON BARRICADES MUST BE CERTIFIED BY THE VENDOR AS TO CRASHWORTHINESS OF THE BARRICADE AND WARNING LIGHT COMBINATION.

(741) FOR DIVIDED ROADWAYS, THE REQUIRED ADVANCE WARNING SIGNS SHALL BE POSTED ON BOTH THE RIGHT AND LEFT SIDE OF THE ROADWAY.

(742) THE CONTRACTOR SHALL CLOSE THE LANE ADJACENT TO THE WORK AREA ANYTIME WORK OUTSIDE THE EXISTING TRAVEL LANES ENCROACHES WITHIN 2 FEET OF THE EXISTING TRAVEL LANES.

743 OMITTED

(744) THE TRANSITION TAPER LENGTH (L) IS SHOWN IN TABLE 6C-4, AND THE BUFFER LENGTH IS SHOWN IN TABLE 6C-2 OF THE MUTCD, PART 6, 2009 EDITION.

745 OMITTED

(746) UNEVEN LANES SIGNS SHALL BE COVERED OR REMOVED WHEN NO UNEVEN PAVEMENT CONDITIONS EXIST.

(747) MOVING OPERATIONS SHALL BE CONFINED TO ONE LANE IN THE DIRECTION OF TRAFFIC.

748 R16-3 AND R16-4 SIGNS SHALL BE REQUIRED FOR EVERY PROJECT ON STATE ROUTES AND INTERSTATE HIGHWAYS. THEY SHALL BE POSTED AT THE BEGINNING AND END OF THE PROJECT. AN R2-1 SIGN SHALL ALWAYS BE REQUIRED FOLLOWING AN R16-3 SIGN. ADDITIONAL R16-3 SIGNS SHALL BE POSTED AT MAXIMUM THREE MILE INTERVALS THROUGHOUT THE PROJECT LIMITS. ADDITIONAL R16-3 SIGNS SHALL BE REQUIRED WITH A W3-5b (REDUCED SPEED AHEAD)SIGN AND R2-1 SIGNS WHENEVER A REDUCTION ON SPEED IS REQUIRED FOR A WORK AREA SUCH AS A LANE CLOSURE WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL COVER OR REMOVE THE R2-1 (REGULATORY SPEED SIGNS) AND THE W3-5b (REDUCED SPEED AHEAD) SIGNS WHEN A SPEED REDUCTION THROUGH THE CONSTRUCTION WORK ZONE IS NOT REQUIRED AND THE CONSTRUCTION ACTIVITY AND/OR LOCATION OF WORK ACTUALLY BEING PERFORMED DOES NOT PRESENT A CLEAR AND PRESENT DANGER TO CONSTRUCTION WORKERS OR THE TRAVELING PUBLIC.

(749) DURING REPLACEMENT OF GUARDRAIL AND/OR GUARDRAIL END ANCHORS, A REFLECTORIZED DRUM WITH A LIGHTWEIGHT TYPE B WARNING LIGHT (WEIGHING 3.3 POUNDS OR LESS) WITH A DETACHABLE HEAD SHALL BE PLACED BEFORE THE END OF ANY EXPOSED GUARDRAIL AT NIGHT WHERE THE GUARDRAIL END ANCHOR CANNOT BE REPLACED IN ONE DAY'S TIME.

(750) CONSTRUCTION SIGNS MOUNTED ON A SINGLE OR DUAL SQUARE TUBULAR OR U-CHANNEL POST SHALL BE INSTALLED AS SHOWN ON SPECIAL DRAWING NOS. IHS-710-21 AND IHS-710-23. SINGULAR OR DUAL 4 X 4 WOOD POSTS ARE CONSIDERED BREAKAWAY.

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

REVISIONS

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

GENERAL TRAFFIC CONTROL PLAN NOTES

DRAWN BY: ____
DATE DRAWN: 1-12-2012

SPECIAL DRAWING NO.: SPECIAL PROJECT DETAIL

INDEX NO.: 2000

PLAN SUBMITTAL

ALABAMA DEPARTMENT OF TRANSPORTATION

SHEET TITLE	ROUTE
GENERAL TRAFFIC CONTROL PLAN NOTES	

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPH-V-8525 (800)	2012	3

SUMMARY OF QUANTITIES

PAY ITEMS

BRIDGE	ROADWAY	TOTAL	ITEM NO.	UNIT	ITEM
	1	1	201A-002	LUMP SUM	CLEARING AND GRUBBING (MAXIMUM ALLOWABLE BID $4000.00 PER ACRE)(APPROXIMATELY 18 ACRES)
1		1	206A-000	LUMP SUM	REMOVAL OF OLD BRIDGE. OLD MADISON PIKE STATION 25+85.19 TO 28+05.11
1		1	206A-001	LUMP SUM	REMOVAL OF OLD BRIDGE. OLD MADISON PIKE STATION 34+47.89 TO 34+75.17
1		1	206B-000	LUMP SUM	REMOVAL OF OLD BOX CULVERT. OLD MADISON PIKE STATION 25+37.83 TO 25+62.75
	1	1	206B-001	LUMP SUM	REMOVAL OF OLD BOX CULVERT. OLD MADISON PIKE STATION 32+69.51 TO 32+77.52
	68	68	206C-000	SQ YD	REMOVING SIDEWALK
	1551	1551	206C-023	SQ YD	REMOVING RIPRAP
	499	499	206D-000	LIN FT	REMOVING PIPE
	2248	2248	206D-001	LIN FT	REMOVING GUARDRAIL
	1521	1521	206D-003	LIN FT	REMOVING CURB AND GUTTER
	7	7	206E-000	EACH	REMOVING HEADWALLS
	3	3	206E-001	EACH	REMOVING INLETS
	4	4	206E-002	EACH	REMOVING JUNCTION BOXES
	25117	25117	210A-000	CU YD	UNCLASSIFIED EXCAVATION
	25376	25376	210D-000	CU YD	BORROW EXCAVATION
	2900	2900	210F-001	TONS	BORROW EXCAVATION (UNDERWATER EMBANKMENT)
	500	500	210F-005	TONS	BORROW EXCAVATION (LIGHTWEIGHT AGGREGATE) (ALDOT #2 STONE)
553	724	1277	214A-000	CU YD	STRUCTURE EXCAVATION
207	308	515	214B-001	CU YD	FOUNDATION BACKFILL. COMMERCIAL
	29	29	230A-000	RDBD STA	ROADBED PROCESSING
	36229	36229	301A-008	SQ YD	CRUSHED AGGREGATE BASE COURSE. TYPE B. PLANT MIXED. 5" COMPACTED THICKNESS
	100	100	305B-078	TON	CRUSHED AGGREGATE. SECTION 825. TYPE B. FOR MISCELLANEOUS USE
	18866	18866	401A-000	SQ YD	BITUMINOUS TREATMENT A
	2550	2550	405A-000	GAL	TACK COAT
	3	3	407B-000	MILE	JOINT SEALANT FOR HOT MIX ASPHALT PAVEMENT
	7044	7044	408A-051	SQ YD	PLANING EXISTING PAVEMENT (APPROXIMATELY 0.00" THRU 1.0" THICK)
	1863	1863	424A-361	TON	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER. 3/4" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D
	200	200	424A-365	TON	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER. PATCHING. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D
	2802	2802	424B-651	TON	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D
	982	982	424B-658	TON	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER. LEVELING. 3/4" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D
	2565	2565	424B-681	TON	SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D
	2819	2819	424C-360	TON	SUPERPAVE BITUMINOUS CONCRETE BASE LAYER. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D
	200	200	424C-364	TON	SUPERPAVE BITUMINOUS CONCRETE BASE LAYER. PATCHING. 1" MAXIMUM AGGREGATE SIZE MIX. ESAL RANGE C/D
	300	300	430B-014	TON	AGGREGATE SURFACING (ALDOT #410 MODIFIED)
	232	232	450B-000	SQ YD	REINFORCED CEMENT CONCRETE BRIDGE END SLAB
196364		196364	502A-000	POUND	STEEL REINFORCEMENT
1		1	502B-000	LUMP SUM	STEEL REINFORCEMENT FOR BRIDGE SUPERSTRUCTURE. STATION 25+20.0 APPROXIMATELY 145,925 LBS.
1		1	505A-032	EACH	STEEL TEST PILES (HP 12X53) (MAXIUMUM BID LIMITED TO $2000 PER EACH TEST PILE)
1		1	505B-102	EACH	STATIC LOADING TESTS (HP 12X53) (MAXIUMUM BID LIMITED TO $2000 PER EACH LOADING TEST)
202		202	505G-003	EACH	PILE POINTS (TYPE A. 12")
7773		7773	505H-000	LIN FT	PILOT HOLES
8056		8056	505M-002	LIN FT	STEEL PILING FURNISHED AND DRIVEN (HP12X53)
24587		24587	508A-000	POUND	STRUCTURAL STEEL

SUMMARY OF QUANTITIES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	3A

PAY ITEMS

BRIDGE	ROADWAY	TOTAL	ITEM NO.	UNIT	ITEM
1359		1359	510A-000	CU YD	BRIDGE SUBSTRUCTURE CONCRETE, CLASS A
1		1	510C-051	LUMP SUM	BRIDGE CONCRETE SUPERSTRUCTURE, STATION 25+20.0 APPROXIMATELY 667 CU YDS
2172		2172	510E-000	SQ YD	GROOVING CONCRETE BRIDGE DECKS
126		126	511A-051	EACH	ELASTOMERIC BEARING TYPE 2 (MARK B2)
3085		3085	513B-004	LIN FT	PRETENSIONED-PRESTRESSED CONCRETE GIRDERS, TYPE II (SPECIALTY ITEM)
370		370	517G-000	LIN FT	ORNAMENTAL METAL FENCE
353		353	524A-010	CU YD	CULVERT CONCRETE
	432	432	530A-001	LIN FT	18" ROADWAY PIPE (CLASS 3 R.C.)
	567	567	530A-002	LIN FT	24" ROADWAY PIPE (CLASS 3 R.C.)
	24	24	530A-003	LIN FT	30" ROADWAY PIPE (CLASS 3 R.C.)
	60	60	530A-008	LIN FT	60" ROADWAY PIPE (CLASS 3 R.C.)
	371	371	534E-001	LIN FT	CLEANING EXISTING PIPE (LESS THAN OR EQUAL TO 48" HORIZONTAL OPENING)
	1	1	600A-000	LUMP SUM	MOBILIZATION
	1	1	601A-000	EACH	FURNISHING BASE, SOIL AND STRUCTURE LABORATORIES
	15	15	602A-000	EACH	RIGHT OF WAY MARKERS
	3210	3210	610C-001	TON	LOOSE RIPRAP, CLASS 2
	2052	2052	610D-003	SQ YD	FILTER BLANKET, GEOTEXTILE
	106	106	614A-000	CU YD	SLOPE PAVING
	1918	1918	618A-000	SQ YD	CONCRETE SIDEWALK, 4" THICK
	380	380	618A-001	SQ YD	CONCRETE SIDEWALK, 6" THICK
	1	1	619A-002	EACH	18" ROADWAY PIPE END TREATMENT, CLASS 1
	2	2	619A-003	EACH	24" ROADWAY PIPE END TREATMENT, CLASS 1
	1	1	619A-004	EACH	30" ROADWAY PIPE END TREATMENT, CLASS 1
	1	1	619A-009	EACH	60" ROADWAY PIPE END TREATMENT, CLASS 1
	1	1	619A-102	EACH	24" SIDE DRAIN PIPE END TREATMENT, CLASS 1
	9	9	621A-022	EACH	JUNCTION BOXES, TYPE 1 (MODIFIED)
	7	7	621B-014	EACH	JUNCTION BOXES UNITS, TYPE 1
	5	5	621C-015	EACH	INLETS, TYPE S-1 OR S-3 (1 WING)
	1	1	621C-020	EACH	INLETS, TYPE Y
	1752	1752	623C-000	LIN FT	COMBINATION CURB AND GUTTER, TYPE C
	1657	1657	630A-001	LIN FT	STEEL BEAM GUARDRAIL, CLASS A, TYPE 2
	1	1	630C-000	EACH	GUARDRAIL END ANCHOR, SERIES 10
	2	2	630C-001	EACH	GUARDRAIL END ANCHOR, TYPE 8
	4	4	630C-003	EACH	GUARDRAIL END ANCHOR, TYPE 13
	4	4	630C-050	EACH	GUARDRAIL END ANCHOR, TYPE 20 SERIES
	2925	2925	650B-000	CU YD	TOPSOIL FROM STOCKPILES
	6	6	652A-100	ACRE	SEEDING
	2074	2074	654A-000	SQ YD	SOLID SODDING
	6	6	656A-010	ACRE	MULCHING
	3717	3717	659C-007	SQ YD	EROSION CONTROL PRODUCT, TYPE C8
	6	6	665A-000	ACRE	TEMPORARY SEEDING
	18	18	665B-001	TON	TEMPORARY MULCHING
	135	135	665C-000	EACH	SAND BAGS
	560	560	665I-000	TON	TEMPORARY RIPRAP, CLASS 2
	10762	10762	665J-002	LIN FT	SILT FENCE
	400	400	665L-000	LIN FT	TEMPORARY BASIN BOOM
	80	80	665N-000	TON	TEMPORARY COARSE AGGREGATE, ALDOT NUMBER 1
	10762	10762	665O-001	LIN FT	SILT FENCE REMOVAL

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES PAY SHEETS	ROUTE CR-17
DATE:	DATE:	DATE:				

SUMMARY OF QUANTITIES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	3-8

PAY ITEMS

BRIDGE	ROADWAY	TOTAL	ITEM NO.	UNIT	ITEM
	6	6	665P-005	EACH	INLET PROTECTION STAGE 3 OR 4
	660	660	665Q-002	LIN FT	WATTLE
	1	1	680A-001	LUMP SUM	GEOMETRIC CONTROLS
			698A-000	LUMP SUM	CONSTRUCTION FUEL (MAXIMUM BID LIMITED TO $
	2	2	701A-231	MILE	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE
	2	2	701A-235	MILE	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE
	2	2	701A-240	MILE	BROKEN WHITE, CLASS 2, TYPE A TRAFFIC STRIPE
	1	1	701A-245	MILE	BROKEN YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE
	250	250	701B-205	LIN FT	DOTTED, CLASS 2, TYPE A TRAFFIC STRIPE
	1	1	701C-001	MILE	SOLID TEMPORARY TRAFFIC STRIPE
	700	700	701G-144	LIN FT	SOLID WHITE, CLASS W, TYPE A TRAFFIC STRIPE
	700	700	701G-148	LIN FT	BROKEN YELLOW, CLASS W, TYPE A TRAFFIC STRIPE
	700	700	701G-152	LIN FT	SOLID YELLOW, CLASS W, TYPE A TRAFFIC STRIPE
	1444	1444	703A-002	SQ FT	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A
	157	157	703B-002	SQ FT	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A
	33	33	703D-001	SQ FT	TEMPORARY TRAFFIC CONTROL MARKINGS
	63	63	705A-030	EACH	PAVEMENT MARKERS, CLASS A-H, TYPE 2-C
	199	199	705A-032	EACH	PAVEMENT MARKERS, CLASS A-H, TYPE 1-B
	115	115	705A-037	EACH	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D
	100	100	705A-038	EACH	PAVEMENT MARKERS, CLASS A-H, TYPE 2-E
	3	3	707B-003	EACH	TYPE A HAZARD MARKER INSTALLATION
	17	17	710A-115	SQ FT	CLASS 4, ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STEEL FLAT SIGN PANELS 14 GAUGE (TYPE III OR IV BACKGROUND)
	39	39	710B-001	LIN FT	ROADWAY SIGN POST (#3 "U" CHANNEL GALVANIZED STEEL)
	1	1	730A-000	LUMP SUM	REMOVAL OF EXISTING TRAFFIC CONTROL UNIT (OLD MADISON PIKE AT SLAUGHTER ROAD)
	1	1	730C-000	LUMP SUM	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT (OLD MADISON PIKE AT SLAUGHTER ROAD)
	3	3	730E-000	EACH	METAL TRAFFIC SIGNAL POLE FOUNDATION
	3	3	730G-001	EACH	METAL TRAFFIC SIGNAL STRAIN POLE
	3254	3254	730H-001	LIN FT	LOOP WIRE
	163	163	730I-001	LIN FT	LOOP DETECTOR LEAD-IN-CABLE
	8	8	730J-010	EACH	VEHICLE LOOP DETECTOR
	7	7	730K-000	EACH	TRAFFIC SIGNAL JUNCTION BOX
	47	47	730L-003	LIN FT	1", NON-METALLIC, CONDUIT
	253	253	730L-005	LIN FT	2", NON-METALLIC, CONDUIT
	4	4	730N-000	EACH	LUMINAIRE EXTENSION ASSEMBLY, 12'
	4	4	730P-022	EACH	VEHICULAR SECTION HEAD, 12 INCH, 3 SECTION, TYPE LED
	4	4	730P-024	EACH	VEHICULAR SECTION HEAD, 12 INCH, 5 SECTION, TYPE LED
	1	1	730R-022	EACH	CONTROLLER ASEEMBLY, TYPE III, 8 PHASE
	1	1	730T-000	EACH	WOOD POLE
	1051	1051	740B-000	SQ FT	CONSTRUCTION SIGNS
	60	60	740D-000	EACH	CHANNELIZING DRUMS
	50	50	740E-000	EACH	CONES (36 INCHES HIGH)
	19	19	740F-002	EACH	BARRICADES, TYPE III
	9	9	740I-002	EACH	WARNING LIGHTS, TYPE B
	50	50	740M-001	EACH	BALLAST FOR CONE
	2	2	741C-010	EACH	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT
			999 -000	HOUR	TRAINEE HOURS AT 80 CENTS PER HOUR

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES PAY SHEETS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	3C

SUMMARY OF QUANTITIES

REMOVAL OF OLD BRIDGE (206A)

ROADWAY	PAY ITEM	STATION	LUMP SUM	REMARKS
OLD MADISON PIKE	206A-000	26+85.19 TO 28+05.11	1	BIN#019254; 2 SPANS @ 36'; 2 SPANS @ 24'; 4 CONCRETE GIRDERS @ 5'-0";
OLD MADISON PIKE	206A-001	34+47.89 TO 34+75.17	1	BIN#019323; 1 SPAN @ 27'; 4 CONCRETE GIRDERS @ 5'-0";

REMOVAL OF OLD BOX CULVERT (206B)

ROADWAY	PAY ITEM	STATION	LUMP SUM	REMARKS
OLD MADISON PIKE	206B-000	25+37.83 TO 25+62.75	1	BIN#018741; CD 126
OLD MADISON PIKE	206B-001	32+69.51 TO 32+77.52	1	CS 86

REMOVING GUARDRAIL (206D-001)

ROADWAY	STATION TO STATION	SIDE	GUARDRAIL 206D-001 (LIN. FT.)	REMARKS
OLD MADISON PIKE	10+22 TO 10+83	RT	114	STATIONING INCLUDES END ANCHORS
OLD MADISON PIKE	24+60 TO 28+84	LT	424	STATIONING INCLUDES END ANCHORS
OLD MADISON PIKE	24+80 TO 28+72	RT	392	STATIONING INCLUDES END ANCHORS
OLD MADISON PIKE	31+86 TO 41+25	LT	939	STATIONING INCLUDES END ANCHORS
OLD MADISON PIKE	31+87 TO 35+66	RT	379	STATIONING INCLUDES END ANCHORS
TOTAL			2248	

REMOVING PIPE (206D-000)

ROADWAY	STATION	SIDE	LIN FT	REMARKS
OLD MADISON PIKE	10+29 TO 10+31	LT	14	24" R.C.P.
	10+31 TO 10+37	LT	22	24" R.C.P.
	10+37 TO 10+62	LT	27	24" R.C.P.
	15+53 TO 16+47	LT	99	18" R.C.P.
	20+79 TO 21+29	LT	49	24" R.C.P.
	22+39 TO 22+84	LT	45	30" R.C.P.
	22+66 TO 22+87	LT	62	18" R.C.P.
	25+45	LT	33	15" R.C.P.
	38+23 TO 38+35	LT	40	18" R.C.P.
	41+12 TO 41+55	LT	43	30" R.C.P.
	41+55 TO 41+64	LT/RT	65	30" R.C.P.
TOTAL:			499	

REMOVING INLETS (206E-001)

ROADWAY	STATION	SIDE	EACH	REMARKS
OLD MADISON PIKE	15+53	LT	1	GRATE INLET
	38+35	RT	1	S-INLET
	41+64	RT	1	S-INLET
TOTAL:			3	

REMOVING JUNCTION BOXES (206E-002)

ROADWAY	STATION	SIDE	EACH	REMARKS
OLD MADISON PIKE	10+31	LT	1	
	10+37	LT	1	
	10+62	LT	1	
	41+55	LT	1	
TOTAL:			4	

REMOVING CURB AND GUTTER (206D-003)

ROADWAY	STATION TO STATION	SIDE	CURB AND GUTTER (206D-003) LIN FT	REMARKS
OLD MADISON PIKE	12+65 TO 12+70	LT	33	
	12+88 TO 12+95	LT	35	
	15+57 TO 15+87	LT	64	
	16+04 TO 16+22	LT	100	
	16+39 TO 16+73	LT	71	
	20+44 TO 20+82	RT	100	
	21+10 TO 21+75	RT	120	
	20+69 TO 20+91	LT	59	
	21+20 TO 21+36	LT	59	
	38+16 TO 42+41	LT/RT	880	
TOTAL:			1521	

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES REMOVAL ITEMS	ROUTE CR-17
DATE:	DATE:	DATE:					

SUMMARY OF QUANTITIES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	3-D

REMOVING SIDEWALK (206C-000)				
ROADWAY	STATION	SIDE	SY	REMARKS
OLD MADISON PIKE	41+51 TO 42+25	LT	36	
	41+54 TO 42+11	RT	32	
TOTAL:			68	

REMOVING HEADWALLS (206E-000)				
ROADWAY	STATION	SIDE	EACH	REMARKS
OLD MADISON PIKE	10+56	RT	1	60" R.C.P.
	10+56	RT	1	18" R.C.P.
	20+79	LT	1	24" R.C.P.
	21+29	LT	1	24" R.C.P.
	22+86	LT	1	18" R.C.P.
	38+24	LT	1	18" R.C.P.
	41+12	LT	1	30" R.C.P.
TOTAL:			7	

REMOVING RIPRAP (206C-023)				
ROADWAY	STATION	SIDE	SY	REMARKS
OLD MADISON PIKE	10+45 TO 10+71	RT	40	
	21+29 TO 21+75	LT	102	
	34+80 TO 41+11	LT	1409	
TOTAL:			1551	

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES REMOVAL ITEMS	ROUTE CR-17
DATE:	DATE:	DATE:					

SUMMARY OF QUANTITIES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	3E

DRAINAGE SUMMARY

SHEET ENTRY	LOCATION STATION TO STATION	SIDE	STRUCTURE NO. FROM	STRUCTURE NO. TO	DRAINAGE SHEET NO. PLAN	DRAINAGE SHEET NO. SECTION	ROADWAY PIPE CLASS 3 R.C. 18"	ROADWAY PIPE CLASS 3 R.C. 24"	ROADWAY PIPE CLASS 3 R.C. 30"	ROADWAY PIPE CLASS 3 R.C. 60"	ROADWAY PIPE END TREATMENT CLASS 1 18"	ROADWAY PIPE END TREATMENT CLASS 1 24"	ROADWAY PIPE END TREATMENT CLASS 1 30"	ROADWAY PIPE END TREATMENT CLASS 1 60"	SIDEDRAIN PIPE END TREATMENT CLASS 1 24"	JUNCTION BOX, TYPE 1 (MODIFIED)	JUNCTIONBOX UNITS, TYPE 1	INLETS, TYPE S-1 OR S-3 (1 WING)	INLETS, TYPEY	SKEW	SLOPE	STRUCTURE EXCAVATION	FOUNDATION BACKFILL COMMERCIAL	MAXIMUM FILL HEIGHT	REQ'D SPECIAL & STANDARD HIGHWAY DRAWINGS	SHEET ENTRY
							530A-001	530A-002	530A-003	530A-008	619A-002	619A-003	619A-004	619A-009	619A-102	621A-022	621B-014	621C-015	621C-020			214A-000	214B-001			
							LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA			CY	CY	FT		
1	10+34.83 TO 10+42.81	LT	1	3	4	32		29							1	1	1				6:1	20	9	3	A, B, C, G, I, N	1
2	10+30.38 TO 10+42.81	LT	2	3	4	32	9									1						5	3	4	G, I, N	2
3	10+42.81 TO 10+62.26	LT	3	4	4	32		32								1						25	9	4	G, I, N	3
4	10+61.90 TO 10+55.75	RT	5	7	4	32		13								2	3					10	4	10	G, I, N	4
5	10+46.30 TO 10+55.75	RT	6	7	4	33	10									1	3					15	3	7	G, I, N	5
6	10+55.75 TO 11+32.24	RT	7	8	4	33				60				1							3:1	92	28	3	A, B, C, I	6
7	12+49.19 TO 15+54.76	LT	9	10	4	34	302											1				152	76	2	E, F, I	7
8	15+54.76 TO 16+90.71	LT	10	11	4	34		132										1				74	37	2	E, F, I	8
9	16+90.71 TO 17+71.11	LT	11	11A	4	35		72								1		1				41	21	2	E, F, G, I, N	9
10	17+71.11 TO 18+47.18	LT	11A	12	4	35		82				1									4:1	47	23	2	A, B, C, I	10
11	20+74.89 TO 22+65.36	LT	13	14	4	36		179								1			1			134	50	4	G, I, N	11
12	22+65.36 TO 22+93.01	LT	14	15	4	36		28				1									4:1	22	8	4	A, B, C, I	12
13	38+56.04 TO 38+70.70	LT	17	18	6	37	62				1							1		12°05' 18"	4:1	32	16	3	A, B, C, E, F, I	13
14	41+55.96 TO 41+60.45	LT	19	20	6	37	49									1		1		3°39' 41"		34	13	4	E, F, G, I, N	14
15	41+45.17 TO 41+55.96	LT	20	21	6	37			24				1								4:1	21	8	4	A, B, C, I	15
	PROJECT TOTAL						432	567	24	60	1	2	1	1	1	9	7	5	1			724	308			

REQUIRED R.C. BRIDGE CULVERT

SHEET ENTRY	LOCATION STATION	SIDE	STRUCTURE NO. FROM	STRUCTURE NO. TO	SHEET NO. PLAN	SHEET NO. SECTION	REQUIRED	LENGTH	CULVERT CONCRETE	REINF. STEEL	STRUCTURE EXCAVATION	FOUNDATION BACKFILL COMMERCIAL	MAXIMUM FILL HEIGHT	SKEW	REQ'D SPECIAL & STANDARD HIGHWAY DRAWINGS	REMARKS	SHEET ENTRY
									524A-010	502A-000	214A-000	214B-001					
								LF	CY	LB	CY	CY	FT				
1	34+83.34	RT/LT	22	23	5	36	CD148	107	353	52815	553	207	3	0°	L,M	5' TOE WALLS	1
2																	2
TOTAL									353	52815	553	207					

REQUIRED SPECIAL & STANDARD HIGHWAY DRAWINGS			
A.	FE-619	I.	RPC-530
B.	HW-614-B	J.	MIG-621-I
C.	HW-614-B (PC)	K.	MIG-621-S
D.	MI-621-Y	L.	SHEET 38
E.	I-621-S	M.	SHEET 39
F.	I-621-SP	N.	SHEET 37A
G.	JB-620-B	O.	
H.	OMIT	P.	

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES DRAINAGE SUMMARY	ROUTE CR-17
DATE:	DATE:	DATE:				

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	3F

SUMMARY OF QUANTITIES

REQUIRED LOOSE RIPRAP, CLASS 2 (610C-001) AND FILTER BLANKET (GEOTEXTILE)(610D-003)

ROADWAY	STATION	TO	STATION	SIDE	RIPRAP CLASS 2 610C-001 (TONS)	FILTER BLANKET 610D-003 (S.Y.)	REQD SPECIAL AND STANDARD HIGHWAY DRAWINGS	REMARKS
OLD MADISON PIKE	11+32	TO	12+48	RT	455	411		RIPRAP DITCH
	34+91	TO	35+37	LT	158	147		RIPRAP DITCH
	24+85	TO	25+66	LT/RT	1514	850	A	BRIDGE END
	28+40	TO	29+08	LT/RT	1083	644	A	BRIDGE END
				TOTAL	3210	2052		

EROSION CONTROL PRODUCT, TYPE C8 (DITCH LINING)(659C-007)

ROADWAY	STATION	TO	STATION	SIDE	LENGTH	659C-007 (S.Y.)
OLD MADISON PIKE	17+00	TO	19+70	RT	270	775
	18+50	TO	21+00	LT	250	415
	23+00	TO	25+00	LT	200	413
	22+00	TO	25+34	RT	334	1119
	36+00	TO	42+00	RT	600	995
					TOTAL	3717

SLOPE PAVING (614-000) AND SOLID SODDING (BERMUDA) (654A-001)

ROADWAY	STATION	TO	STATION	SIDE	LENGTH	SLOPE PAVING 614A-000 CU. YD.	SOLID SODDING (BERMUDA) 654A-001 SQ. YD.	REMARKS
OLD MADISON PIKE	10+57	TO	12+67	LT			500	
	12+93	TO	15+77	LT			224	
	16+48	TO	20+91	LT			1154	
	35+37	TO	42+00	LT	663	101	196	DITCH
	37+13	TO	37+28	LT/RT		2		SAFETY NOSE
	42+19	TO	42+34	LT/RT		3		SAFETY NOSE
						106	2074	

REQUIRED SPECIAL & STANDARD HIGHWAY DRAWINGS			
A.	RR-610	I.	
B.		J.	
C.		K.	
D.			

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES DITCH QUANTITIES	ROUTE CR-17
DATE:	DATE:	DATE:					

SUMMARY OF QUANTITIES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	3G

REQUIRED STEEL BEAM GUARDRAIL, CLASS A, TYPE 2 AND GUARDRAIL END ANCHORS

ROADWAY	STATION TO STATION	SIDE	GUARDRAIL STEEL BEAM CLASS A, TYPE 2 (LIN. FT.) 630A-001	END ANCHORS TYPE 10 (EACH) 630C-000	TYPE 8 (EACH) 630C-001	TYPE 13 (EACH) 630C-003	TYPE 20 SERIES (EACH) 630C-050	REQUIRED SPECIAL & STANDARD HIGHWAY DRAWINGS	REMARKS
OLD MADISON PIKE	10+23 TO 11+08	RT	50				1	C, D, I	
	21+36 TO 25+05	RT	307	1		1		A, B, C, D	
	23+77 TO 25+34	LT	114		1	1		C, D, G, I	
	28+56 TO 35+70	RT	671		1	1		C, D, G, I	
	28+84 TO 32+63	LT	304			1	1	A, C, D, I	
	33+16 TO 36+27	LT	211				2	C, D, I	
TOTAL			1657	1	2	4	4		

REQUIRED INDUSTRIAL FENCE, 6 FEET TALL (634A-002)

ROADWAY	STATION TO STATION	SIDE	LIN FT	REQD SPECIAL AND STANDARD HIGHWAY DRAWINGS
OLD MADISON PIKE	25+37 TO 28+87	LT	350	K
TOTAL			350	

REQUIRED CONCRETE SIDEWALK (618A)

ROADWAY	STATION TO STATION	SIDE	4" THICK 618A-000 SQ YD	6" THICK 618A-001 SQ YD	REQD SPECIAL AND STANDARD HIGHWAY DRAWINGS
OLD MADISON PIKE	10+57 TO 12+67	LT	117		J
	12+92 TO 15+77	LT	158		J
	16+48 TO 20+91	LT	246		J
	21+19 TO 25+37	LT	233		J
	23+86 TO 26+71	LT		380	J
	28+85 TO 32+80	LT	220		J
	33+00 TO 42+24	LT	513		J
	42+02	LT/RT	25		J
GREENWAY PARKING	400+30 TO 403+34	RT	406		J
TOTAL			1918	380	

CLEANING EXISTING PIPE (LESS THAN OR EQUAL TO 48" HORIZONTAL OPENING)(534E-001)

ROADWAY	STATION TO STATION	SIDE	LIN. FT.	REMARKS
O.M.P.	9+83 TO 10+50	LT	51	18" RCP
	9+84 TO 10+29	RT	68	18" RCP
	10+61	LT/RT	67	24" RCP
	41+46 TO 43+42	LT	185	24" RCP
TOTAL			371	

REQUIRED REINFORCED CEMENT CONCRETE BRIDGE END SLAB (450B-000)

ROADWAY	STATION TO STATION	SIDE	SKEW	QUANTITY SQ. YD.	REQUIRED SPECIAL & STANDARD DRAWINGS	REMARKS
O.M.P.	25+00 TO 25+20	LT/RT	25°	116	E, F	
O.M.P.	28+70 TO 28+90	LT/RT	25°	116	E, F	
TOTAL				232		

REQUIRED CURB AND GUTTER, TYPE C (623C-000)

ROADWAY	STATION TO STATION	SIDE	LIN FT	REQD SPECIAL AND STANDARD HIGHWAY DRAWINGS
OLD MADISON PIKE	10+35 TO 12+72	LT	279	H
	12+88 TO 15+87	LT	329	H
	16+04 TO 16+22	LT	78	H
	16+38 TO 17+00	LT	84	H
	37+28 TO 42+19	LT	491	H
	37+28 TO 42+19	RT	491	H
TOTAL			1752	

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES REQUIRED ITEMS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8625 (600)	2012	3H

SUMMARY OF QUANTITIES

REQUIRED TRAFFIC STRIPING, TRAFFIC CONTROL LEGEND, AND MARKINGS

ROADWAY	CLASS 2, TYPE A TRAFFIC STRIPE					CLASS W, TYPE A TRAFFIC STRIPE			TRAFFIC CONTROL MARKINGS CLASS 2, TYPE A			TRAFFIC CONTROL LEGENDS CLASS 2, TYPE A	SOLID TEMPORARY STRIPE	TEMPORARY MARKINGS	REQUIRED SPECIAL & STANDARD HIGHWAY DRAWINGS
	SOLID WHITE	SOLID YELLOW	BROKEN WHITE	BROKEN YELLOW	DOTTED WHITE	SOLID WHITE	BROKEN WHITE	SOLID YELLOW	WHITE	24" WHITE	24" YELLOW	WHITE			
	(MILE)	(MILE)	(MILE)	(MILE)	(LIN. FT.)	(LIN. FT.)	(LIN. FT.)	(LIN. FT.)	(SQ. FT.)	(SQ. FT.)	(SQ. FT.)	(SQ. FT.)	(MILE)	(SQ. FT.)	
	701A-231	701A-235	701A-240	701A-245	701B-205	701G-144	701G-148	701G-152	703A-002	703A-002	703A-002	703B-002	701C-001	703D-001	
OLD MADISON PIKE	1.32	1.03	1.22	0.35	250	700	700	700	722	72	650	157	0.72	33	E, F, L, M
TOTALS:	2	2	2	1	250	700	700	700	722	72	650	157	1	33	
									TOTAL 703A-002:		1444				

REQ'D PAVEMENT MARKERS

ROADWAY	PAVEMENT MARKERS				REQUIRED SPECIAL & STANDARD HIGHWAY DRAWINGS
	CL. A-H TY. 2-C	CL. A-H TY. 1-B	CL. A-H TY. 2-D	CL. A-H TY. 2-E	
	(EACH)	(EACH)	(EACH)	(EACH)	
	705A-030	705A-032	705A-037	705A-038	
OLD MADISON PIKE	63	199	115	100	B, C, D
TOTALS:	63	199	115	100	

REQUIRED GROUND MOUNTED ROADWAY SIGNS

IDENTIFICATION NO.	SHEET NO.	ROADWAY	SIDE OF TRAFFIC	REQ'D SIGN POST #3 U CHANNEL (710B-001) LIN. FT.	NUMBER OF POSTS	710A-115 CLASS 4 (TYPE III OR IV BACKGROUND) R2-1 EACH	R2-1 SQ FT	R3-7 EACH	R3-7 SQ FT	REQUIRED TYPE A HAZARD MARKER 707B-003	REQUIRED SPECIAL & STANDARD HIGHWAY DRAWINGS
1	10	OLD MADISON PIKE	RT	13	1	1	5.00				G, H, I, J
2	10	OLD MADISON PIKE	RT	13	1			1	6.25		H, I, J, O
3	10	OLD MADISON PIKE	LT							1	H, I, J, N
4	12	OLD MADISON PIKE	LT							1	H, I, J, N
5	12	OLD MADISON PIKE	RT	13	1	1	5.00				G, H, I, J
6	12	OLD MADISON PIKE	LT							1	H, I, J, N
TOTAL				39		17				3	

REQUIRED RIGHT OF WAY MARKERS (602A-000)

ROADWAY	STATION	OFFSET (FT)	SIDE	ROW MARKERS	REMARKS	REQUIRED SPECIAL & STANDARD DRAWINGS
OLD MADISON PIKE	10+25.56	100	RT	1	TIE TO PRESENT	A
	19+18.95	100	RT	1		A
	21+30	78.60	LT	1	TIE TO PRESENT	A
	22+23.51	90.85	LT	1		A
	22+23.51	100	RT	1		A
	23+23.22	100	LT	1		A
	23+28.68	115	LT	1		A
	34+70.63	100	RT	1	TIE TO PRESENT	A
	36+00	115	LT	1		A
	36+00	140	LT	1		A
	36+99.49	140	LT	1		A
	41+25.25	140	LT	1		A
	41+25.25	130	LT	1		A
	42+50	130	LT	1		A
	42+50	101.66	LT	1	TIE TO PRESENT	A
TOTAL				15		

REQUIRED SPECIAL & STANDARD HIGHWAY DRAWINGS			
A.	M-602	I.	IHS-710-21
B.	PM-705-1	J.	IHS-710-23
C.	PM-705-2	K.	OMIT
D.	PM-705-6	L.	PS-701-7
E.	PS-701-3	M.	PS-701-4
F.	TCM-703	N.	HM-707
G.	SHEET 13	O.	SHB-2
H.	IHS-710-12		

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES REQUIRED ITEMS	ROUTE CR-17
DATE:	DATE:	DATE:				

SUMMARY OF QUANTITIES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	3-I

TEMPORARY EROSION AND SEDIMENT CONTROL QUANTITIES

Roadway	Station to Station	Side	Sand Bags Each 665G-000	Wattle LinFt 665D-002	Silt Fence LinFt 665J-002	Silt Fence Removal LinFt 665D-001	Sump Excavation Cu Yd 210A-000	Temporary Riprap Class2 Ton 665I-000	Floating Basin Boom LinFt 665L-000	Inlet Protection Stage 3 or 4 Each 665P-005	Stabilize Construction Entrance Temporary Coarse Aggregate ALDOT Number 1 Ton 665N-000	Required Special & Standard Highway Drawings
OLD MADISON PIKE	10+00 TO 21+50	LT/RT		300	2221	2221		75		4		B, C, D
	21+50 TO 35+00	LT/RT		60	7341	7341	120	435	400		40	B, C, E, F
	35+00 TO 42+00	LT/RT	135	300	1200	1200	120	50		2	40	B, C, D, F
TOTAL			135	660	10762	10762	240	560	400	6	80	

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES TEMPORARY EROSION AND SEDIMENT CONTROL	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPH-V-8525 (600)	2012	3J

SUMMARY OF QUANTITIES

REQUIRED TRAFFIC SIGNAL PAY ITEMS

DESCRIPTION	REMOVAL OF EXISTING TRAFFIC CONTROL UNIT	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT	REQUIRED SPECIAL STANDARD HIGHWAY DRAWINGS	REMARKS
LOCATION	730A-000	730C-000		
	LUMP SUM	LUMP SUM		
OLD MADISON PIKE AT SLAUGHTER RD	1	1	A, B, C, D, E, F, G, H	
TOTAL	1	1		

REQUIRED TRAFFIC SIGNAL PAY ITEMS (EQUIPMENT)

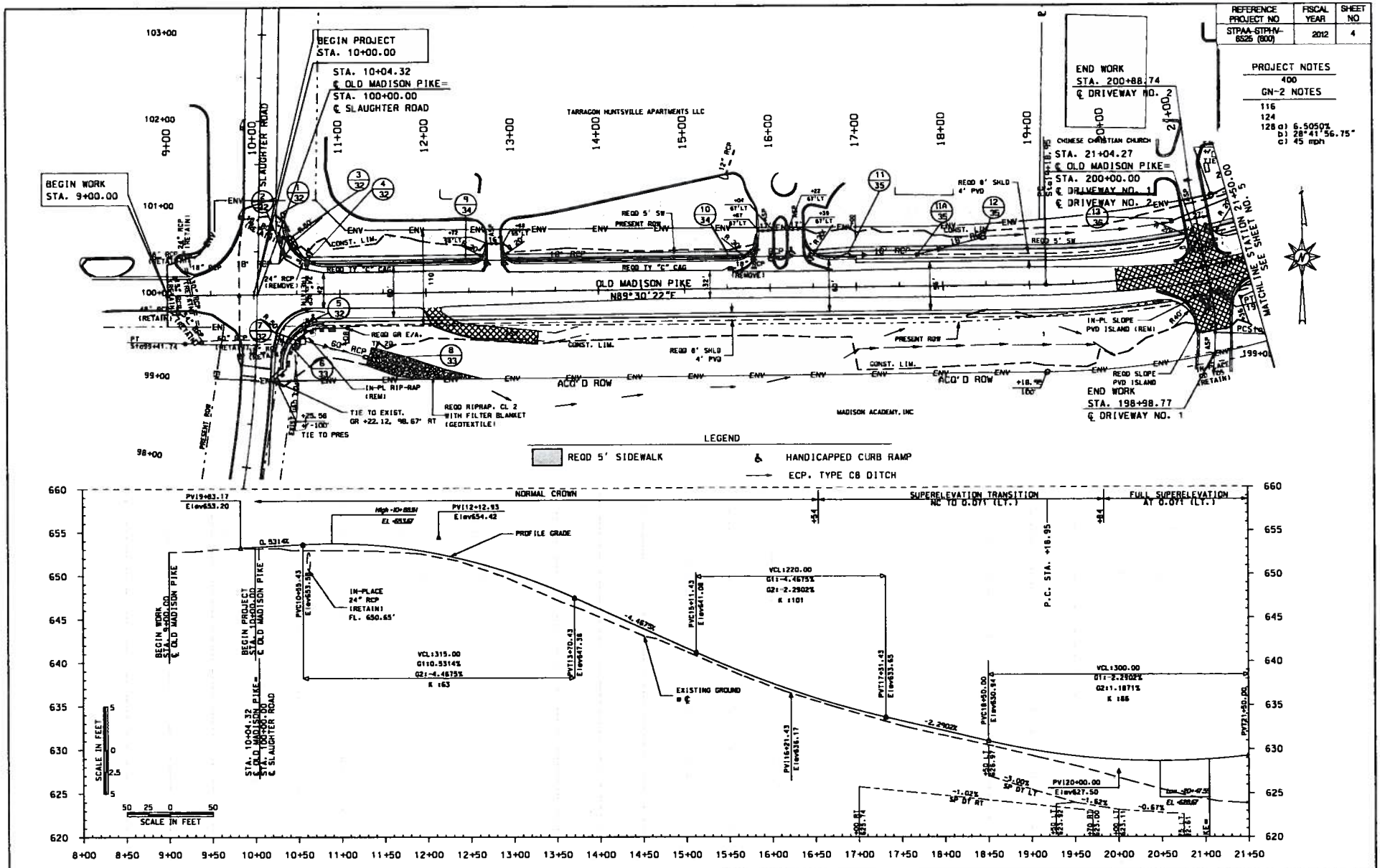
DESCRIPTION	TRAFFIC SIGNAL POLE FOUNDATION METAL	METAL TRAFFIC SIGNAL STRAIN POLE	LOOP WIRE	LOOP DETECTOR LEAD-IN CABLE	VEHICLE LOOP DETECTOR	TRAFFIC SIGNAL JUNCTION BOX	CONDUIT 1" NON-METALLIC	CONDUIT 2" NON-METALLIC	LUMINAIRE EXTENSION ASSEMBLY 12'	VEHICULAR SIGNAL HEAD 12 INCH, 3 SECTION TYPE LED	VEHICULAR SIGNAL HEAD 12 INCH, 5 SECTION TYPE LED	CONTROLLER ASSEMBLY TYPE III 8 PHASE	WOOD POLE	REQUIRED SPECIAL & STANDARD HIGHWAY DRAWINGS	REMARKS
LOCATION	730E-000	730G-001	730H-001	730I-001	730J-010	730K-000	730L-003	730L-005	730N-000	730P-022	730P-024	730R-022	730T-000		
	EACH	EACH	LIN FT	LIN FT	EACH	EACH	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH		
OLD MADISON PIKE AT SLAUGHTER RD	3	3	3254	163	8	7	47	253	4	4	4	1	1	A, B, C, D, E, F, G, H	
TOTAL	3	3	3254	163	8	7	47	253	4	4	4	1	1		

REQUIRED SPECIAL & STANDARD HIGHWAY DRAWINGS			
A.	TSD-730-1	H.	TSOP NO. 23&24
B.	TSD-730-2		
C.	TSD-730-2A		
D.	TSD-730-4		
E.	TSD-730-10		
F.	TSD-730-11		
G.	TSD-730-13		

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES TRAFFIC SIGNAL ITEMS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-6325 (800)	2012	4

PROJECT NOTES
400
GN-2 NOTES
116
124
128 a) 6.5050%
b) 28°41'56.75"
c) 45 mph



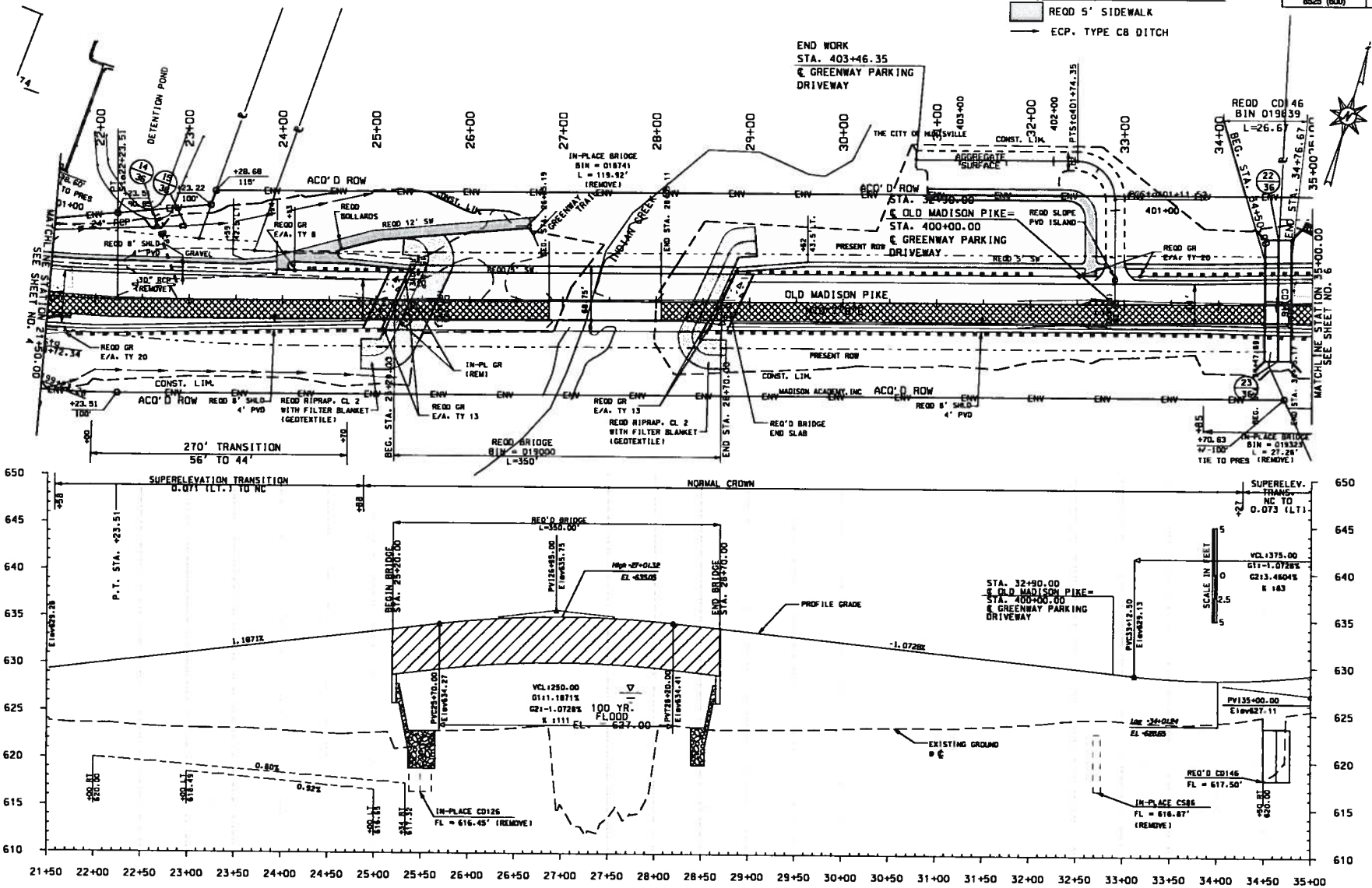
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	PLAN & PROFILE SHEET OLD MADISON PIKE STA. 10+00.00 TO STA. 21+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	5

LEGEND

REQD 5' SIDEWALK

ECP. TYPE CB DITCH



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

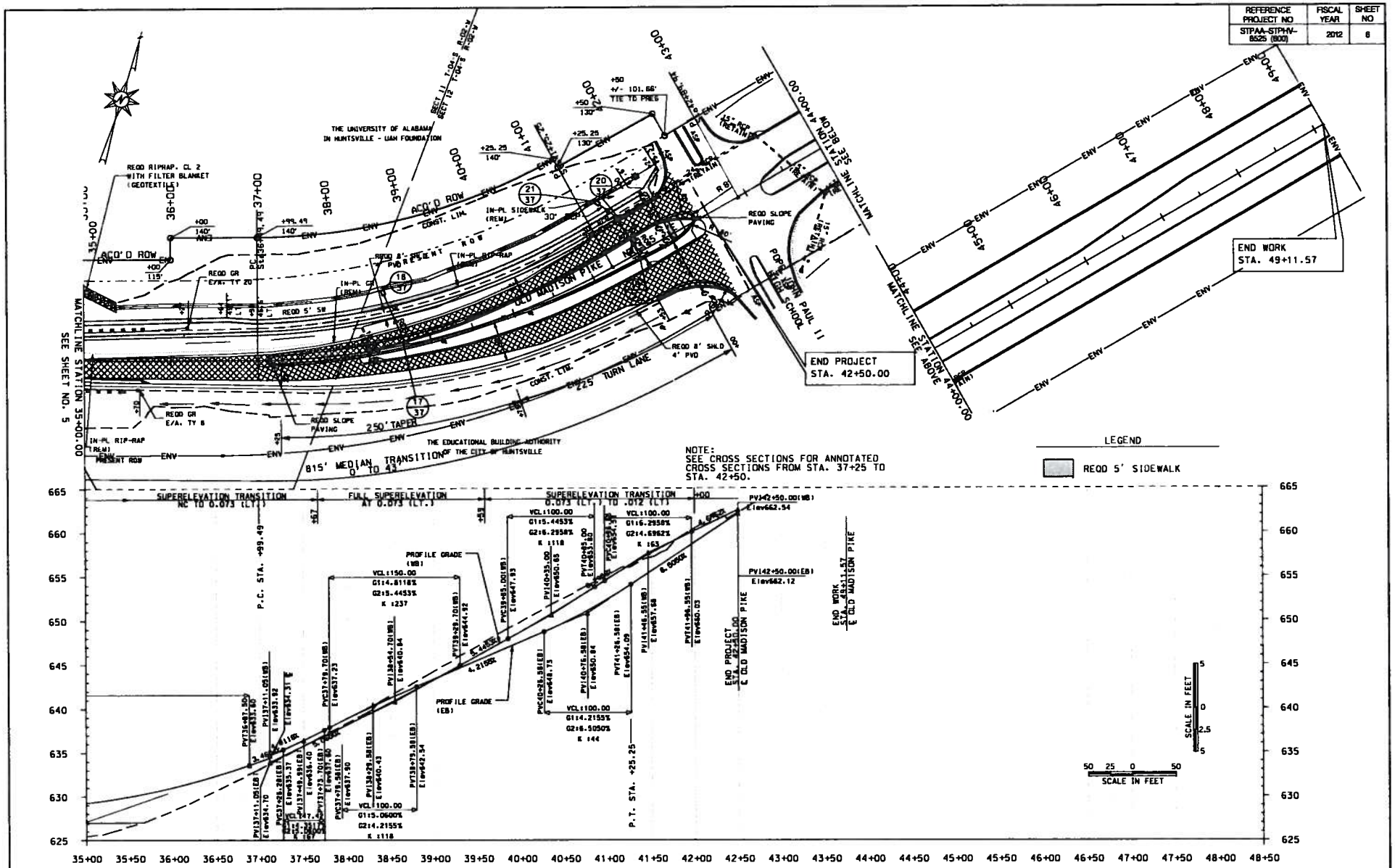
ALABAMA DEPARTMENT OF TRANSPORTATION

50 25 0 50
SCALE IN FEET

PLAN & PROFILE SHEET
OLD MADISON PIKE
STA. 21+50.00 TO STA. 35+00.00

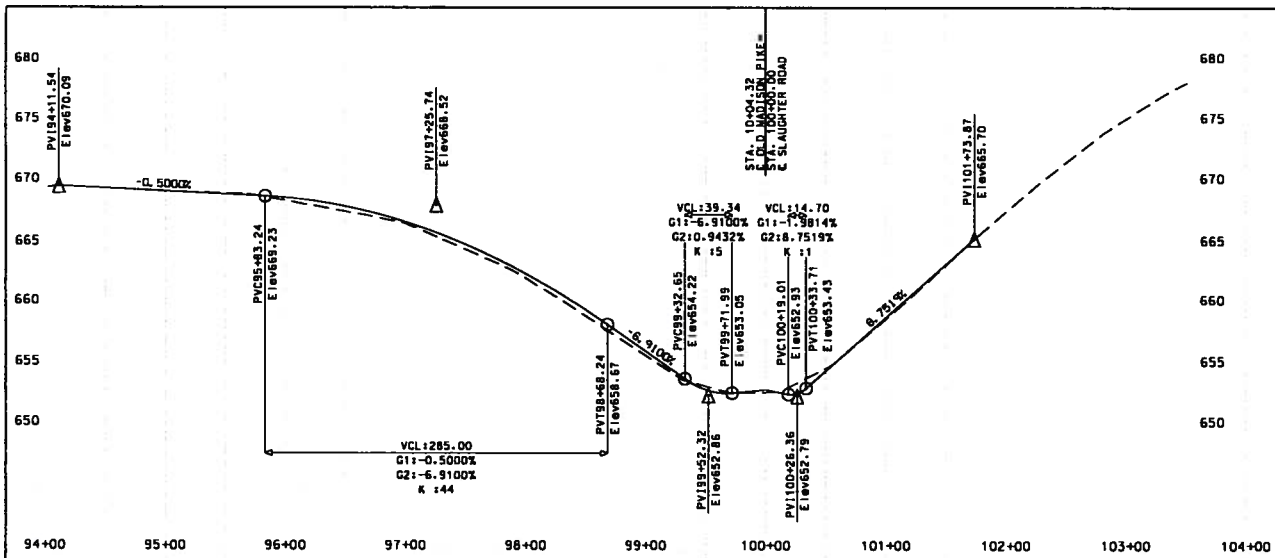
ROUTE CR-17

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	8



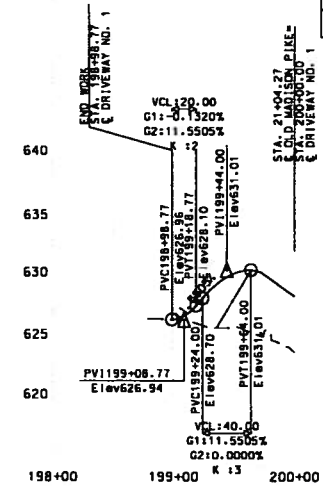
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	SCALE IN FEET	PLAN & PROFILE SHEET OLD MADISON PIKE STA. 35+00.00 TO STA. 42+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	7

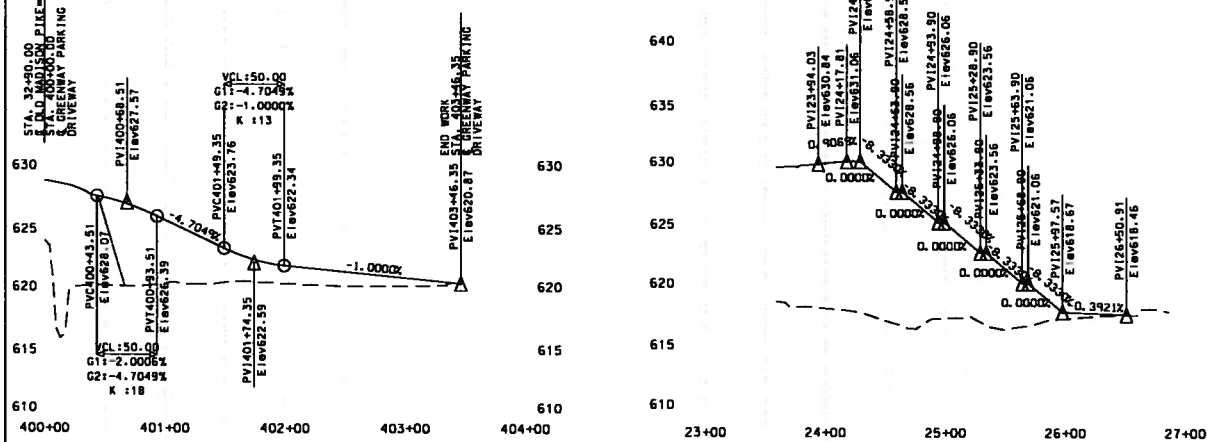


SLAUGHTER ROAD

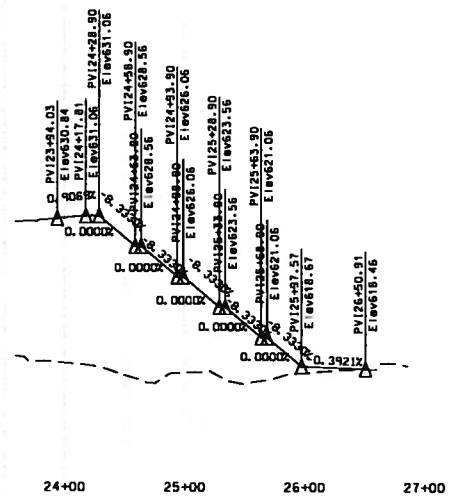
FOR INFORMATION ONLY



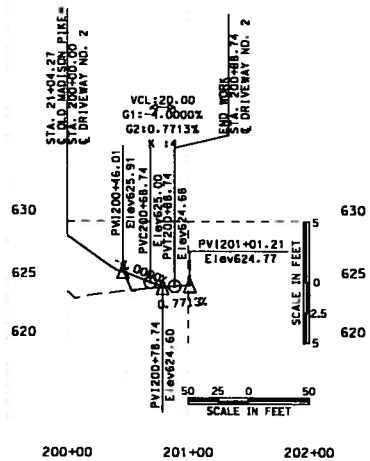
DRIVEWAY NO. 1



GREENWAY PARKING DRIVEWAY



GREENWAY ENTRANCE SIDEWALK



DRIVEWAY NO. 2

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

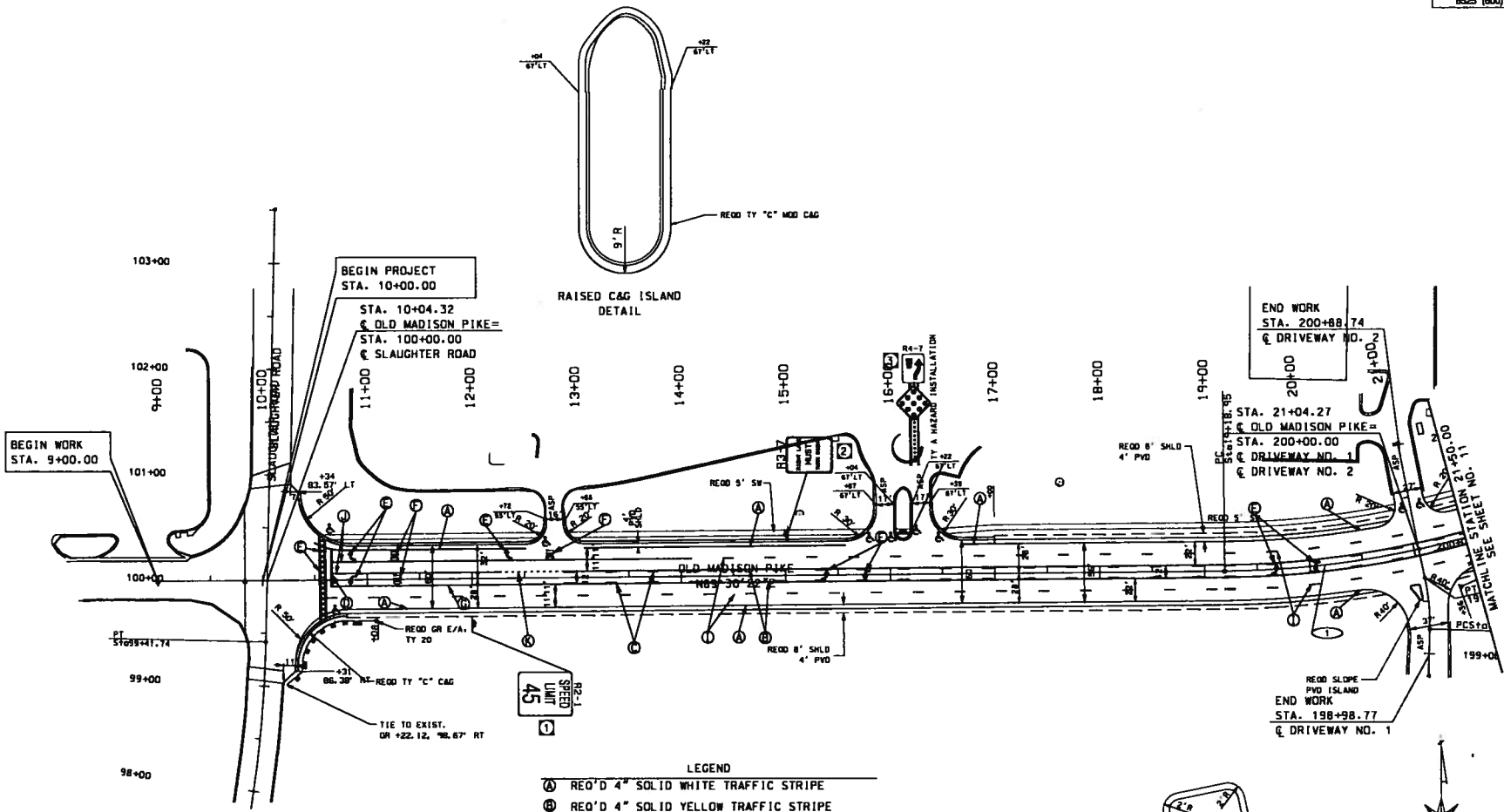
ALABAMA DEPARTMENT OF TRANSPORTATION

50 25 0 50
SCALE IN FEET

PROFILE SHEET
DRIVEWAY NO. 1 & 2,
GREENWAY PARKING DRIVEWAY, GREENWAY ENTRANCE SIDEWALK AND SLAUGHTER ROAD

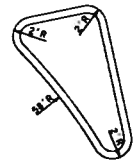
ROUTE
CR-17

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHN-8525 (600)	2012	10



LEGEND

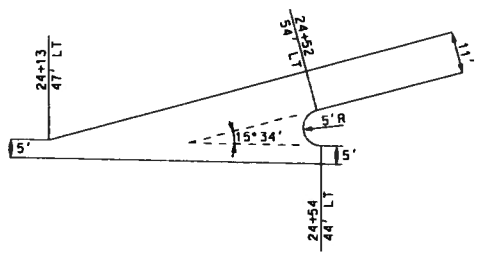
- (A) REQ'D 4" SOLID WHITE TRAFFIC STRIPE
- (B) REQ'D 4" SOLID YELLOW TRAFFIC STRIPE
- (C) REQ'D 4" BROKEN YELLOW TRAFFIC STRIPE WITH CLASS A-H TYPE 2-D PAVEMENT MARKERS AT 40' O.C.
- (D) REQ'D 24" WHITE TRAFFIC CONTROL MARKINGS
- (E) REQ'D TRAFFIC CONTROL MARKINGS
- (F) REQ'D TRAFFIC CONTROL LEGENDS
- (G) REQ'D 4" DOUBLE SOLID YELLOW TRAFFIC STRIPE WITH CLASS A-H TYPE 2-D PAVEMENT MARKERS AT 40' O.C.
- (I) REQ'D 4" BROKEN WHITE TRAFFIC STRIPE
- (J) REQ'D 8" SOLID WHITE TRAFFIC CHANNELIZING STRIPE WITH CLASS A-H. TYPE 2-C PAVEMENT MARKERS AT 20' O.C.
- (K) REQ'D 4" DOTTED WHITE TRAFFIC STRIPE



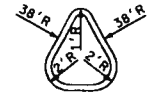
DRIVEWAY NO. 1
SLOPE PAVED ISLAND

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	PAVING LAYOUT, STRIPING, AND SIGNING OLD MADISON PIKE STA. 10+00.00 TO STA. 21+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

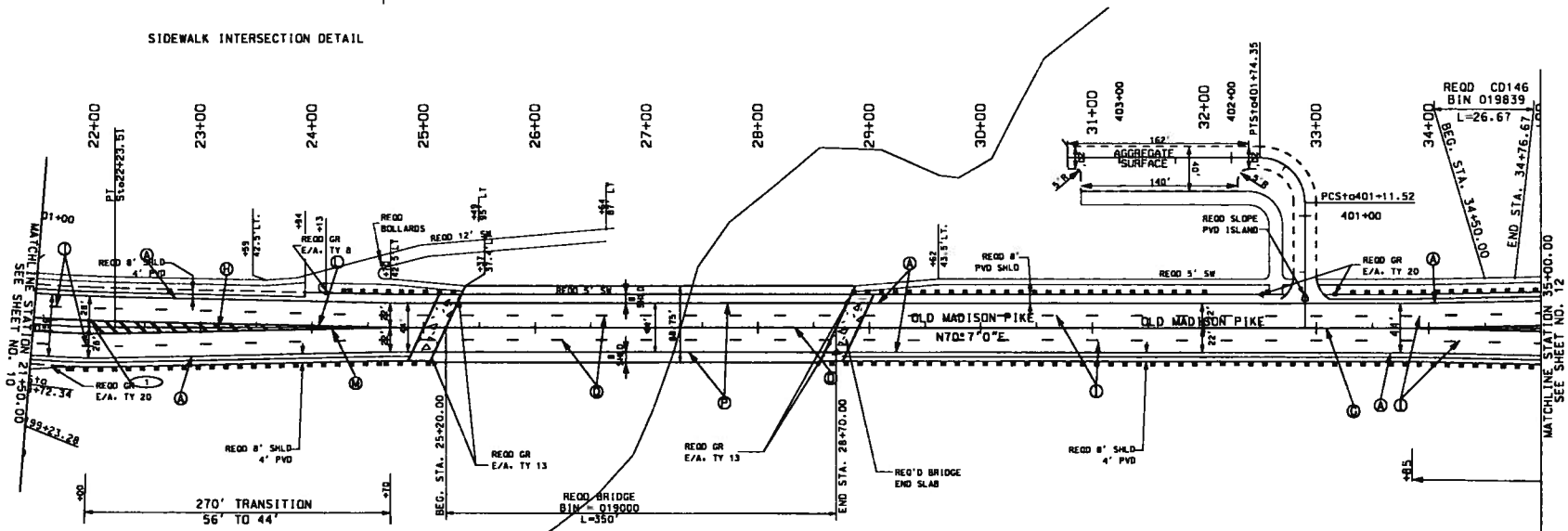
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	11

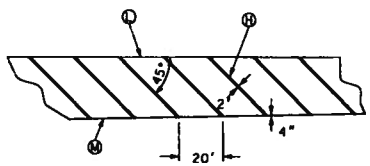


SIDEWALK INTERSECTION DETAIL



SLOPE PAVED ISLAND DETAIL





TYPICAL HATCHING DETAIL

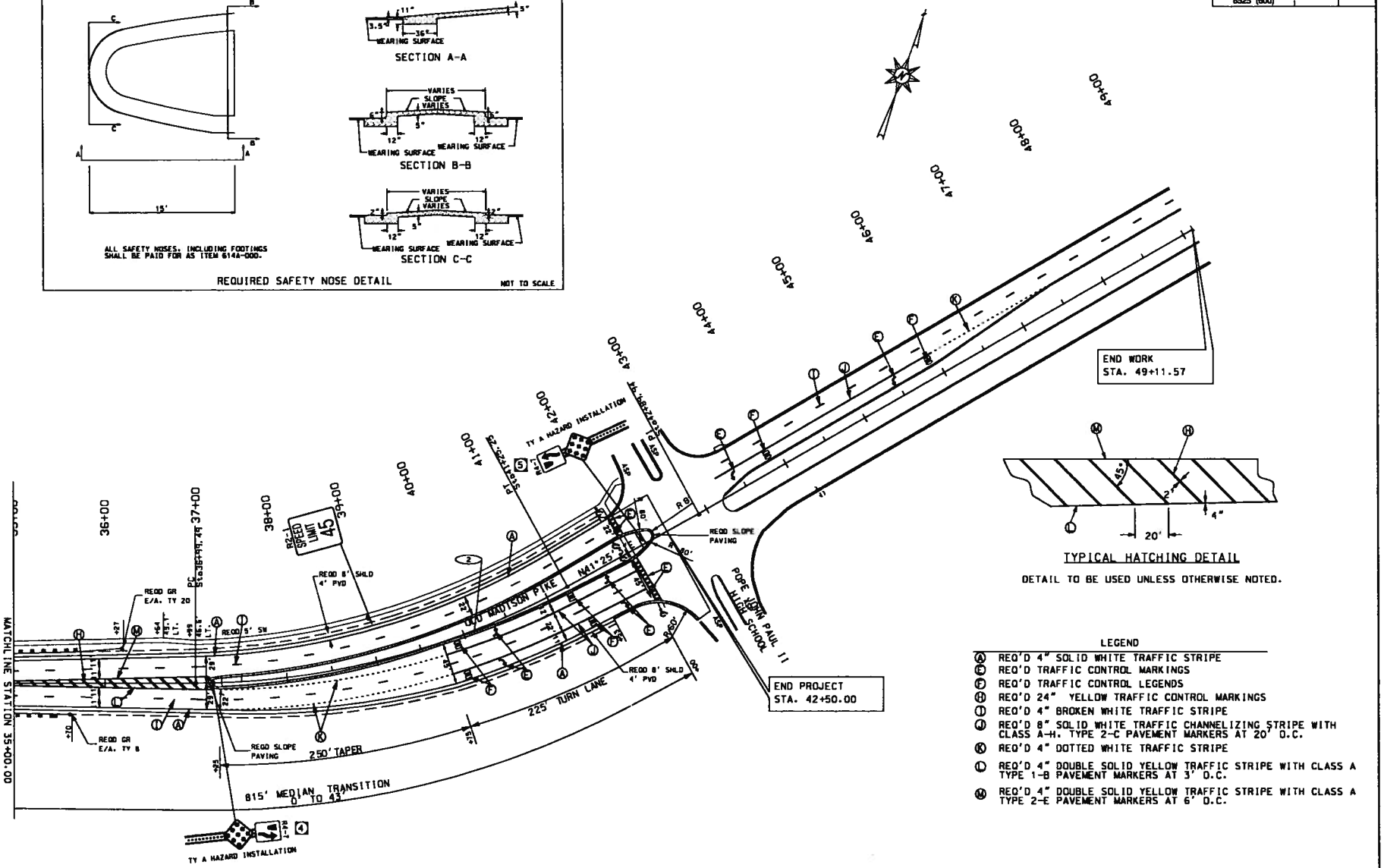
DETAIL TO BE USED UNLESS OTHERWISE NOTED.

LEGEND

- (A) REQ'D 4" SOLID WHITE TRAFFIC STRIPE
- (G) REQ'D 4" DOUBLE SOLID YELLOW TRAFFIC STRIPE WITH CLASS A-H TYPE 2-D PAVEMENT MARKERS AT 40' O.C.
- (H) REQ'D 24" YELLOW TRAFFIC CONTROL MARKINGS
- (I) REQ'D 4" BROKEN WHITE TRAFFIC STRIPE
- (J) REQ'D 8" SOLID WHITE TRAFFIC CHANNELIZING STRIPE WITH CLASS A-H. TYPE 2-C PAVEMENT MARKERS AT 20' O.C.
- (K) REQ'D 4" DOTTED WHITE TRAFFIC STRIPE
- (L) REQ'D 4" DOUBLE SOLID YELLOW TRAFFIC STRIPE WITH CLASS A TYPE 1-B PAVEMENT MARKERS AT 3' O.C.
- (M) REQ'D 4" DOUBLE SOLID YELLOW TRAFFIC STRIPE WITH CLASS A TYPE 2-E PAVEMENT MARKERS AT 6' O.C.
- (O) REQ'D 4" DOUBLE SOLID YELLOW TRAFFIC STRIPE. CLASS W WITH CLASS A-H TYPE 2-D PAVEMENT MARKERS AT 40' O.C.
- (P) REQ'D 4" SOLID WHITE TRAFFIC STRIPE. CLASS W
- (Q) REQ'D 4" BROKEN WHITE TRAFFIC STRIPE. CLASS W

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	PAVING LAYOUT, STRIPING, AND SIGNING OLD MADISON PIKE STA. 21+50.00 TO STA. 35+00.00	ROUTE CR-17
DATE:	DATE:	DATE:					

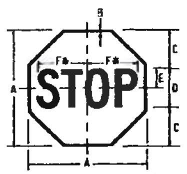
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	12



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	PAVING LAYOUT, STRIPING, AND SIGNING OLD MADISON PIKE STA. 35+00.00 TO STA. 49+11.57	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-9525(600)	2012	13

LEGEND



● REDUCE SPACING 40%

SIGN	A	B	C	D	E	F
MIN	30	.75	10	10C	5	12.5
STD/EXPY	36	.875	12	12C	6	15
FRWY/OVRSZ	48	1.25	16	16C	8	20

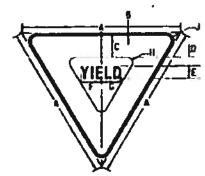
DIMENSIONS (INCHES)

R1-1 (F)

REFLECTORIZATION: LEGEND, BORDER (REFL.); BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER WHITE; BACKGROUND RED

PAY QUANTITY	MIN	STD/EXPY	FRWY/OVRSZ
SQUARE FEET	5.18	7.46	13.25



SIGN	A	B	C	D	E	F	G	H	J
MIN	30	.625	4	1.75	2.5C	3.938	3.625	.875	1.5
STD	36	.75	5	2	3C	4.688	4.375	1.25	2
EXPY	48	1	6	2.75	4C	6.25	5.875	2	3
FRWY	60	1.5	8	3.5	5C	7.875	7.25	2.5	4

DIMENSIONS (INCHES)

R1-2 (F)

REFLECTORIZATION: LEGEND, BORDER (REFL.); BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER WHITE; BACKGROUND RED

PAY QUANTITY	MIN	STD	EXPY	FRWY
SQUARE FEET	2.71	3.90	6.93	10.83

SIGN	A	B	C	D	E	F	G
STD	12	6	.5	1.5	3C	4.875	1.063
EXPY	18	9	.5	2	5C	8	1.75
	H	J	K				
STD	.375	2.75	1.5				
EXPY	.687	4.313	1.5				

DIMENSIONS (INCHES)

R1-3 (F)

REFLECTORIZATION: LEGEND, BORDER (REFL.); BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER — WHITE; BACKGROUND — RED

PAY QUANTITY	STD	EXPY
SQUARE FEET	0.50	1.13

SIGN	A	B	C	D	E	F	G
STD	18	6	.5	1.5	3C	7	1.5
EXPY	24	9	.5	2	5C	11	1.5

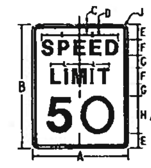
DIMENSIONS (INCHES)

R1-4 (F)

REFLECTORIZATION: LEGEND, BORDER (REFL.); BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER — WHITE; BACKGROUND — RED

PAY QUANTITY	STD	EXPY
SQUARE FEET	0.75	1.50



SIGN	A	B	C	D	E	F	G
STD	24	30	.375	.625	4	4E	2
EXPY	36	48	.625	.875	6	6E	5
FRWY	48	60	.75	1.25	8	8E	6
	H	J	K	L			
STD	10E	1.5	9.563	7.313			
EXPY	14E	2.25	14.375	11			
FRWY	16E	3	19.125	14.625			

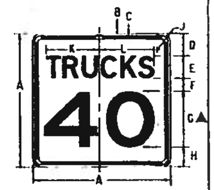
DIMENSIONS (INCHES)

R2-1 (B)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- BLACK; BACKGROUND --- WHITE

PAY QUANTITY	STD	EXPY	FRWY
SQUARE FEET	5.00	12.00	20.00



SIGN	A	B	C	D	E	F	G
STD	24	.375	.625	4	40	2.5	10E
EXPY	36	.625	.875	6	60	4	14E
FRWY	48	.75	1.25	8	80	8	16E
	H	J	K	L			
STD	3.5	1.5	9.563	9.188			
EXPY	6	2.25	14.313	13.813			
FRWY	8	3	18.125	18.375			

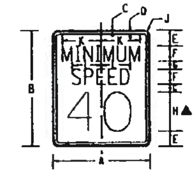
DIMENSIONS (INCHES)

R2-2 (B)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- BLACK; BACKGROUND --- WHITE

PAY QUANTITY	STD	EXPY	FRWY
SQUARE FEET	4.00	9.00	16.00



SIGN	A	B	C	D	E	F	G
STD	24	30	.375	.625	4	4C	2
EXPY	36	48	.625	.875	6	6C	5
FRWY	48	60	.75	1.25	8	8C	6
	H	J	K	L			
STD	10D	1.5	9.188	6.813			
EXPY	14D	2.25	13.75	10.188			
FRWY	18D	3	18.375	13.625			

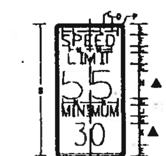
DIMENSIONS (INCHES)

R2-4 (B)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- BLACK; BACKGROUND — WHITE

PAY QUANTITY	STD	EXPY	FRWY
SQUARE FEET	5.00	12.00	20.00



SIGN	A	B	C	D	E	F	G
STD	24	48	.375	.625	4	4E	2.5
EXPY	36	72	.625	.875	6	6E	4
FRWY	48	96	.75	1.25	8	8E	6.5
	H	J	K	L	M	N	P
STD	10E	4C	8D	9.625	7.313	3.188	1.5
EXPY	14E	6C	12D	14.375	11	13.5	2.25
FRWY	16E	8C	14D	19.25	14.625	18.375	3

DIMENSIONS (INCHES)

R2-4a (B)

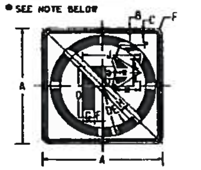
REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- BLACK; BACKGROUND — WHITE

PAY QUANTITY	STD	EXPY	FRWY
SQUARE FEET	8.00	18.00	12.00

LEGEND

● SEE NOTE BELOW



SIGN	A	B	C	D	E	F	G
STD	24	.375	.625	10.5	8.5	1.5	2.5
EXPY	36	.625	.875	15.75	12.75	2.25	3.75
OVRSZ	48	.75	1.25	21	17	3	5
	H	J	K	L	M	N	
STD	2	11.5	2.875	5.063	.375	.5	
EXPY	3	17.25	4.313	7.325	.563	.75	
OVRSZ	4	23	5.75	10.125	.75	1	

DIMENSIONS (INCHES)

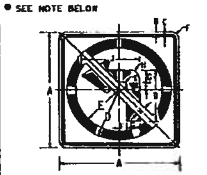
R3-1 (F)

REFLECTORIZATION: CIRCLE & DIAGONAL, ARROW & BORDER (REFL.); BACKGROUND (REFL.)

SIGN COLORS: CIRCLE & DIAGONAL — RED; ARROW & BORDER --- BLACK; BACKGROUND — WHITE

PAY QUANTITY	STD.	EXPY	OVRSZ
SQUARE FEET	4.00	9.00	16.00

● SEE NOTE BELOW



NOTE: SEE R3-1 FOR ARROWHEAD DETAILS

SIGN	A	B	C	D	E	F	G
STD	24	.375	.625	10.5	8.5	1.5	2.5
EXPY	36	.625	.875	15.75	12.75	2.25	3.75
OVRSZ	48	.75	1.25	21	17	3	5
	H	J	K				
STD	2	11.5	.5				
EXPY	3	17.25	.75				
OVRSZ	4	23	1				

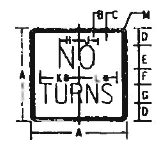
DIMENSIONS (INCHES)

R3-2 (F)

REFLECTORIZATION: CIRCLE & DIAGONAL, ARROW & BORDER (REFL.); BACKGROUND (REFL.)

SIGN COLORS: CIRCLE & DIAGONAL — RED; ARROW & BORDER --- BLACK; BACKGROUND — WHITE

PAY QUANTITY	STD	EXPY	OVRSZ
SQUARE FEET	4.00	9.00	16.00



● REDUCE SPACING 35%

SIGN	A	B	C	D	E	F	G
STD	24	.375	.625	4.5	60	4	50
EXPY	36	.625	.875	6	100	6	80
OVRSZ	48	.75	1.25	9	120	8	100
	H	J	K	L	M		
STD	4.688	5	9.563	9.563	1.5		
EXPY	7.75	[illegible]	[illegible]	[illegible]	2.25		
OVRSZ	[illegible]	10	[illegible]	[illegible]	3		

DIMENSIONS (INCHES)

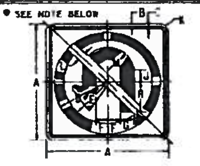
R3-3 (F)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- BLACK; BACKGROUND --- WHITE

PAY QUANTITY	STD	EXPY	OVRSZ
SQUARE FEET	4.00	9.00	16.00

● SEE NOTE BELOW



SEE R3-1 FOR ARROWHEAD DETAILS
NOTE: DIRECTION OF ARROW MAY BE RIGHT OR LEFT

SIGN	A	B	C	D	E	F	G
STD	24	.375	.625	10.5	8.5	2.5	2.5
EXPY	36	.625	.875	15.75	12.75	3.75	3.75
OVRSZ	48	.75	1.25	21	17	5	5
	H	J	K	L	M		
STD	6	2.25	1.5	2	5		
EXPY	9	3.375	2.25	3	7.5		
OVRSZ	12	4.5	3	4	10		

DIMENSIONS (INCHES)

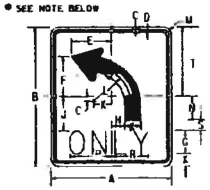
R3-4 (F)

REFLECTORIZATION: CIRCLE & DIAGONAL, ARROW & BORDER (REFL.); BACKGROUND (REFL.)

SIGN COLORS: CIRCLE & DIAGONAL — RED; ARROW & BORDER --- BLACK; BACKGROUND --- WHITE

PAY QUANTITY	STD	EXPY	OVRSZ
SQUARE FEET	4.00	9.00	16.00

● SEE NOTE BELOW



SEE R3-1 FOR ARROWHEAD DETAILS
NOTE: DIRECTION OF ARROW MAY BE RIGHT OR LEFT

SIGN	A	B	C	D	E	F	G
STD	30	36	.5	.75	9.25	11.25	60
	H	J	K	L	M	N	P
STD	3.875	8.25	3.75	9.5	1.875	5.75	[illegible]
	R	S	T				
STD.	10.563	2.5	[illegible]				

DIMENSIONS (INCHES)

R3-5 (B)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER BLACK; BACKGROUND WHITE

PAY QUANTITY	STD
SQUARE FEET	7.50

● LETTER SPACING OR SYMBOL TO BE INCREASED OR DECREASED AS NECESSARY TO CONFORM TO DIMENSIONS INDICATED.

▲ NOTE: OPTICALLY SPACE NUMERALS ABOUT VERTICAL ℄

(A) THIS SIGN SHALL BE FABRICATED USING REFLECTIVE SHEETING TYPE "II" OR "III"
(B) THIS SIGN SHALL BE FABRICATED USING REFLECTIVE SHEETING TYPE "III" OR "IV"
(C) THIS SIGN SHALL BE FABRICATED USING REFLECTIVE SHEETING TYPE "III", "IV", OR "VIII"
(D) THIS SIGN SHALL BE FABRICATED USING REFLECTIVE SHEETING TYPE "IV", "VIII"
(E) THIS SIGN SHALL BE FABRICATED USING REFLECTIVE SHEETING TYPE "IV", VIII" OR "IX"
(F) THIS SIGN SHALL BE FABRICATED USING REFLECTIVE SHEETING TYPE "VIII" OR "IX"

*NOTE: SYMBOL DESIGN AVAILABLE ON REQUEST

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

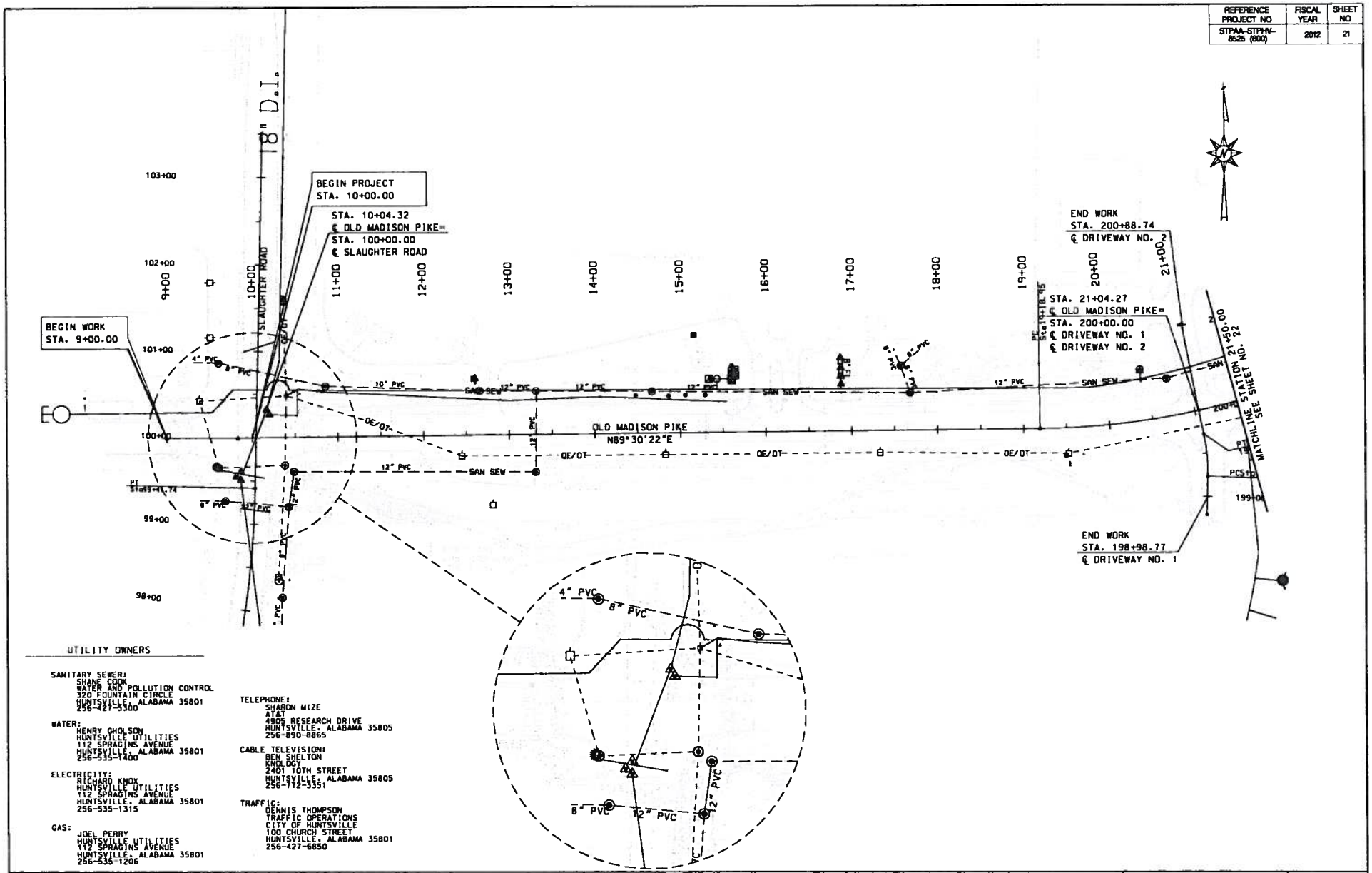
STANDARD HIGHWAY SIGNS

DATE DRAWN: 12-09-97

SPECIAL DRAWING NO: SPECIAL PROJECT DETAIL — 1301

NOT TO SCALE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	21



UTILITY OWNERS

SANITARY SEWER:
SHANE COOK
WATER AND POLLUTION CONTROL
320 FOUNTAIN CIRCLE
HUNTSVILLE, ALABAMA 35801
256-421-5300

WATER:
HENRY CHOLSON
HUNTSVILLE UTILITIES
112 SPRAGINS AVENUE
HUNTSVILLE, ALABAMA 35801
256-535-1400

ELECTRICITY:
RICHARD KNOX
HUNTSVILLE UTILITIES
112 SPRAGINS AVENUE
HUNTSVILLE, ALABAMA 35801
256-535-1315

GAS:
JOEL PERRY
HUNTSVILLE UTILITIES
112 SPRAGINS AVENUE
HUNTSVILLE, ALABAMA 35801
256-535-1206

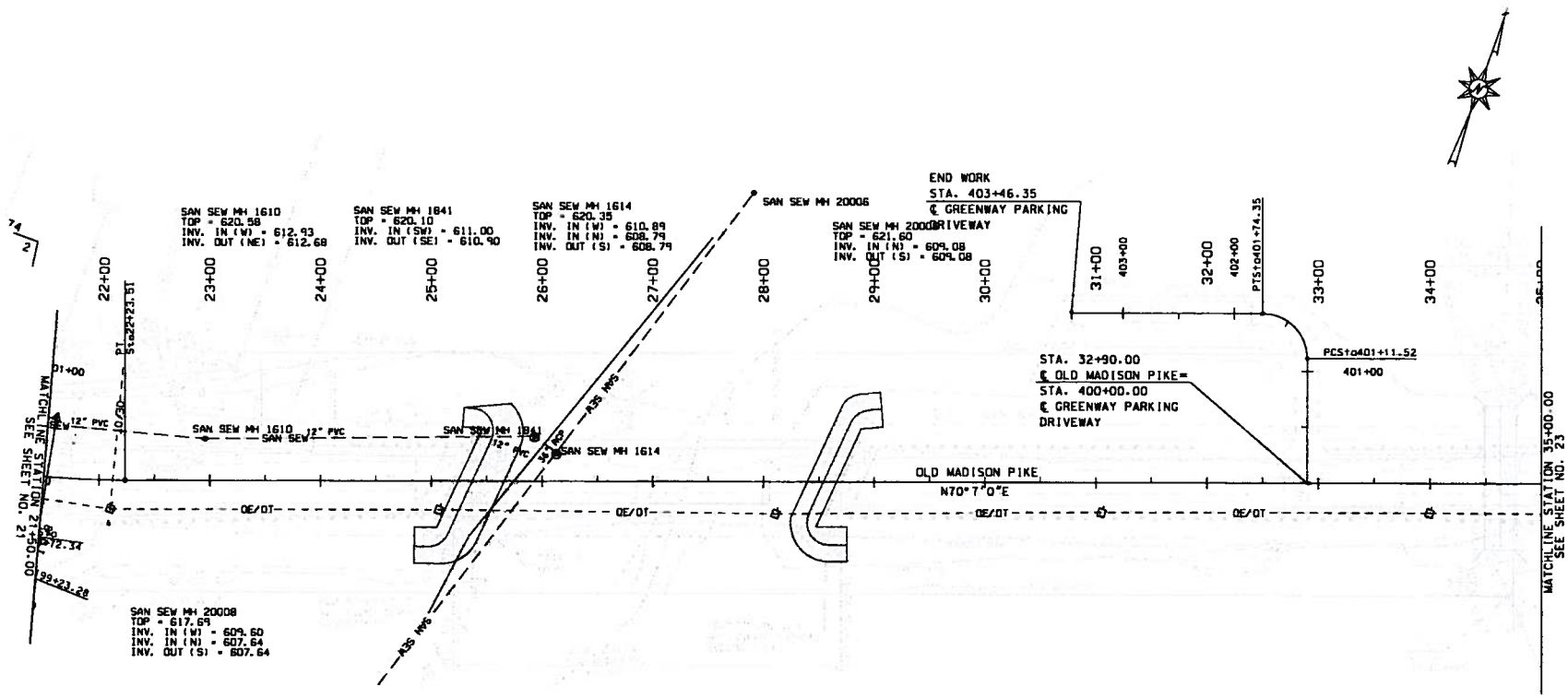
TELEPHONE:
SHARON MIZE
AT&T
4905 RESEARCH DRIVE
HUNTSVILLE, ALABAMA 35805
256-890-8865

CABLE TELEVISION:
BEN SHELTON
KNOLOGY
2401 10TH STREET
HUNTSVILLE, ALABAMA 35805
256-772-3351

TRAFFIC:
DENNIS THOMPSON
TRAFFIC OPERATIONS
CITY OF HUNTSVILLE
100 CHURCH STREET
HUNTSVILLE, ALABAMA 35801
256-427-6850

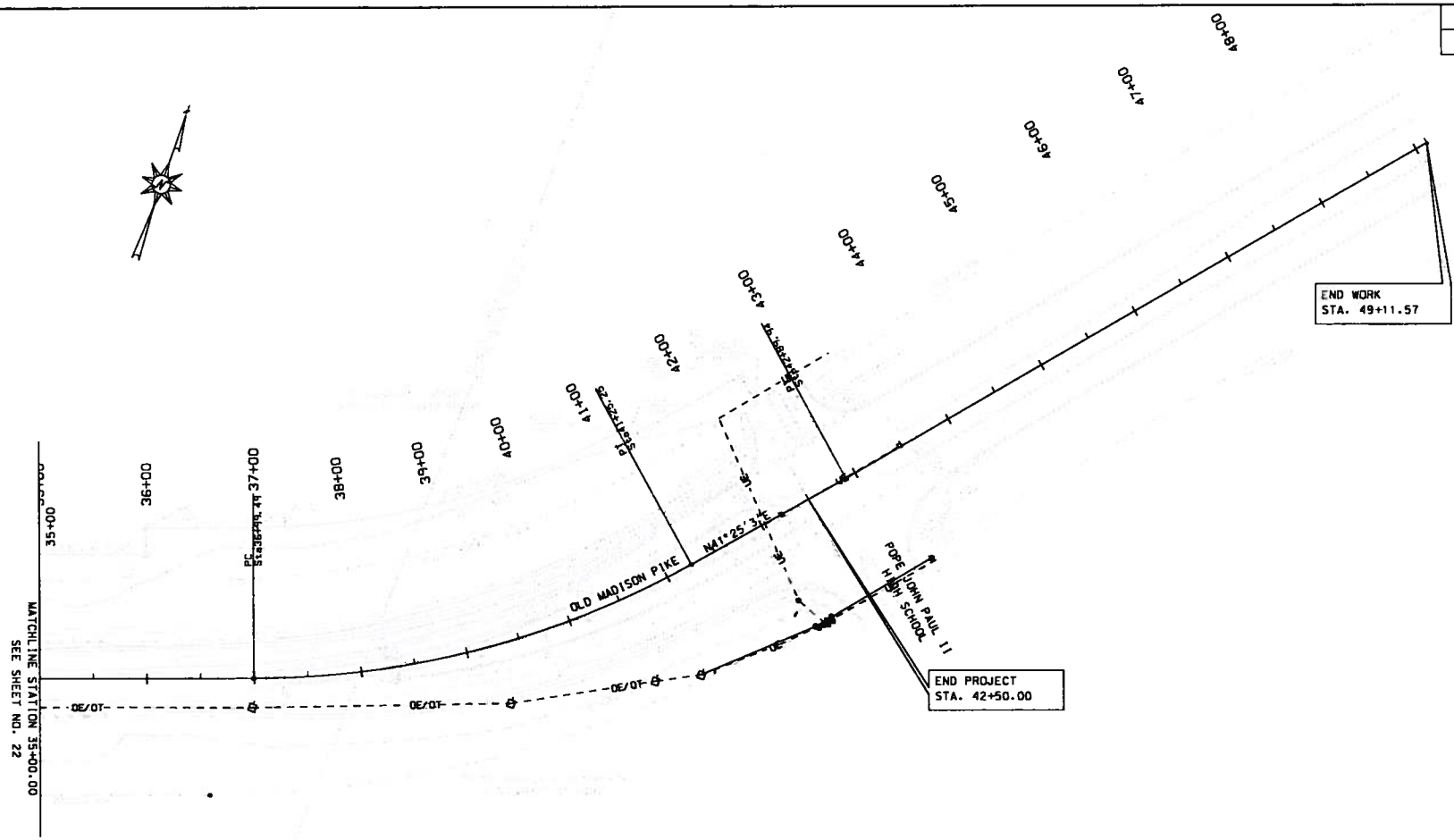
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	UTILITY SHEET STA. 10+00.00 TO STA. 21+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPH-V-8525 (800)	2012	22



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	UTILITY SHEET STA. 21+50.00 TO STA. 35+00.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-6525 (800)	2012	23



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	UTILITY SHEET STA. 35+00.00 TO STA. 42+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

HYDRAULIC DATA

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	31

CROSS DRAIN (OPEN SYSTEM)

LOCATION FROM	LOCATION TO	DRAINAGE AREA (ACRE)	Q 50 (cfs)	Q 200 (cfs)	PIPE SIZE	V 50 (FPS.)	HGL ELEV. HW 50(FT)	HGL ELEV. HW 200(FT)	OVERTOPPING FLOOD YEAR	REMARKS
1	3	0.44	1.88	2.46	24"	11.67	657.68	657.78	*	FLOWS INTO CLOSED SYSTEM
13	15	3.03	17.26	22.53	24"	6.84	621.99	623.40	*	

*NOTE: OVERTOPPING FLOOD IS GREATER THAN THE 200 YEAR STORM.

CROSS DRAIN (RELIEF STRUCTURES)

LOCATION FROM	LOCATION TO	DRAINAGE AREA (ACRE)	Q 25 (cfs)	Q 100 (cfs)	PIPE SIZE	V 25 (FPS.)	HGL ELEV. HW 25(FT)	HGL ELEV. HW 100(FT)	OVERTOPPING FLOOD YEAR	REMARKS
22	23	N/A	700	900	CD 146	5.40	625.10	627.00	*	RELIEF CULVERT

*NOTE: OVERTOPPING FLOOD IS GREATER THAN THE 200 YEAR STORM.
NOTE: INFORMATION PROVIDED BY BRIDGE HYDRAULICS REPORT DATED JUNE 9, 2008

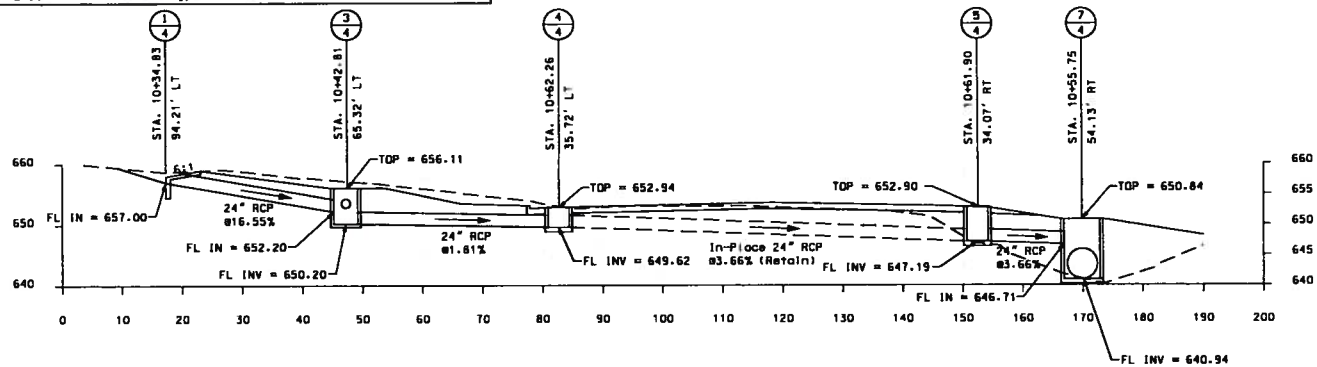
CLOSED STORM DRAIN

INDEX NO. TO INDEX NO.	DRAINAGE STRUCTURE SIZE	FLOWLINE ELEVATION	SURFACE ELEVATION (WORKING POINT)
2 - 3	24"	653.03	655.65
3 - 4	24"	650.20	656.11
4 - 5	24"	649.62	652.95
5 - 7	24"	647.19	652.90
6 - 7	18"	643.32	651.75
7 - 8	60"	640.94	650.84
9 - 10	18"	647.34	650.84
10 - 11	24"	634.96	638.96
11 - 11A	24"	629.52	633.52
11A - 12	24"	628.38	631.90
17 - 18	18"	638.19	642.19
19 - 20	18"	652.98	656.48
20 - 21	30"	651.72	656.52

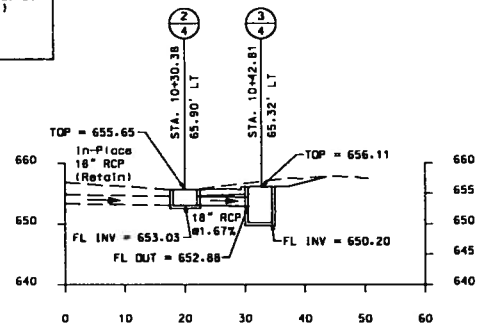
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HYDRAULIC DATA SHEET	ROUTE CR-17
DATE:	DATE:	DATE:				

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8625 (800)	2012	32

Required: 29'- 24" R.C. Roadway Pipe (Class 3) (Index No. 1 to Index No. 3)
32'- 24" R.C. Roadway Pipe (Class 3) (Index No. 3 to Index No. 4)
13'- 24" R.C. Roadway Pipe (Class 3) (Index No. 5 to Index No. 7)
1-24" Sidedrain Pipe End Treatment (Class 1) (Index No. 1)
1-Junction Box, Type 1 (Modified) (Index No. 3)
1-Junction Box Unit, Type 1 (Index No. 3)
1-Junction Box, Type 1 (Modified) (Index No. 4)
1-Junction Box, Type 1 (Modified) (Index No. 5)
1-Junction Box Unit, Type 1 (Index No. 5)
1-Junction Box, Type 1 (Modified) (Index No. 7)
2-Junction Box Units, Type 1 (Index No. 7)



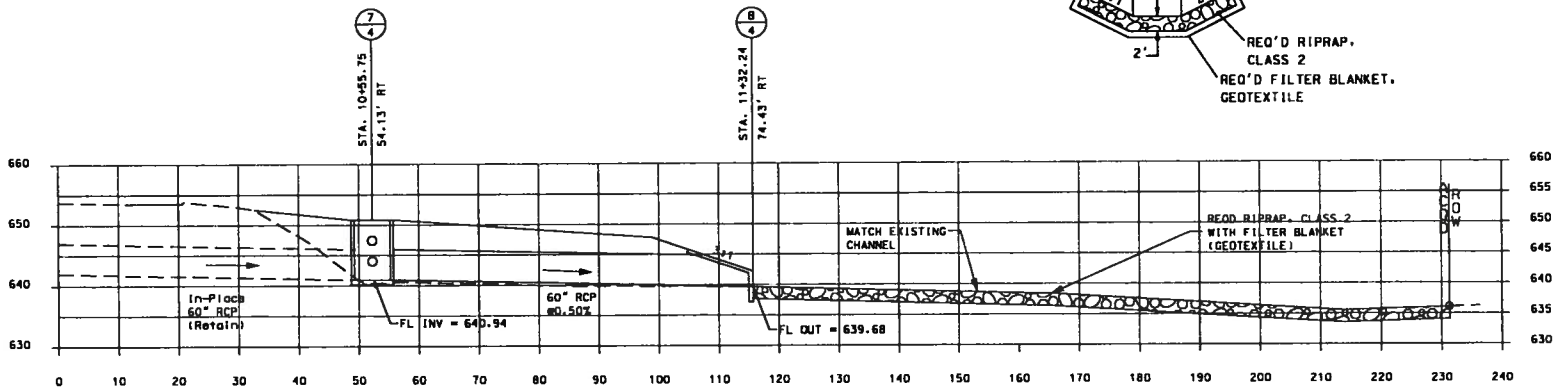
Required: 9' - 18" R.C. Roadway Pipe (Index 2 to Index No. 3)
1-Junction Box, Type 1 (Modified) (Index No. 2)
2-Manhole Removals (Index No. 2)
33'- Pipe Removal (18" RCP)
25'- Pipe Removal (24" RCP)

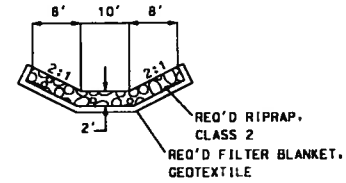


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	DRAINAGE SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

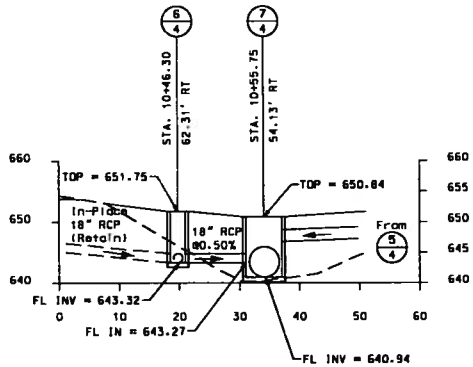
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	33

Required: 60'-60" R.C. Roadway Pipe (Class 3) (Index No. 7 to Index No. 8)
1 - 60" Roadway Pipe End Treatment (Class 2) (Index No. 8)





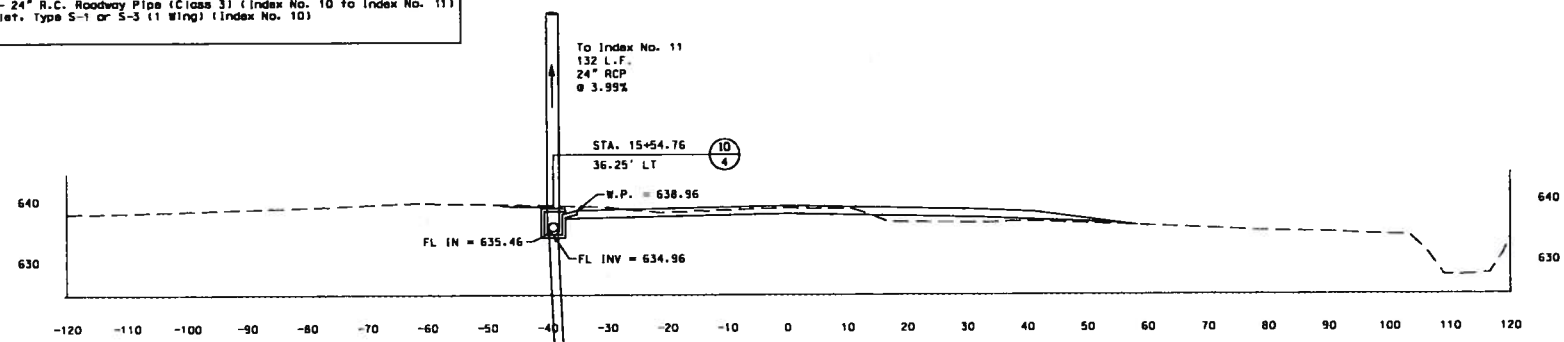
Required: 10'-18" R.C. Roadway Pipe (Class 3) (Index No. 6 to Index No. 7)
1-Junction Box, Type 1 Modified (Index No. 6)
3-Junction Box Units, Type 1 (Index No. 6)
6'- Pipe Removal (18" RCP)



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	DRAINAGE SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

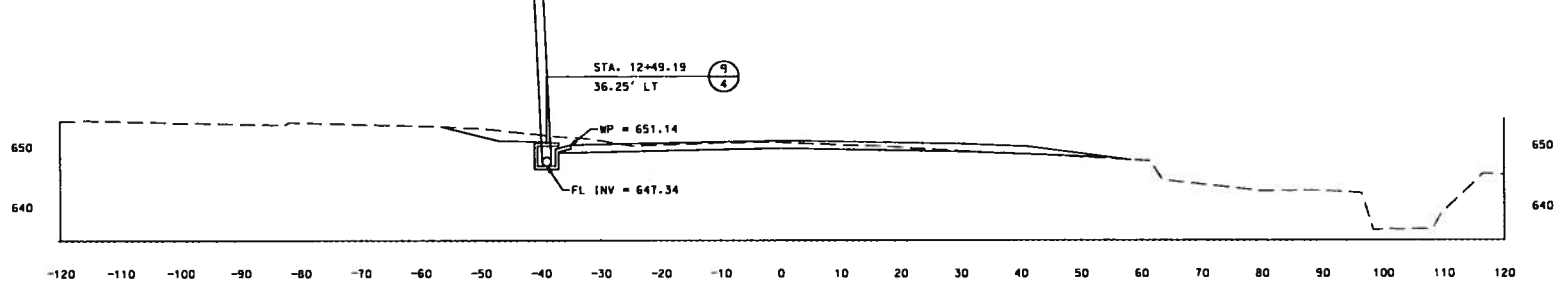
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	34

Required: 132' - 24" R.C. Roadway Pipe (Class 3) (Index No. 10 to Index No. 11)
1-Inlet, Type S-1 or S-3 (1 Wing) (Index No. 10)



To Index No. 10
302 L.F.
18" RCP
@ 3.93%

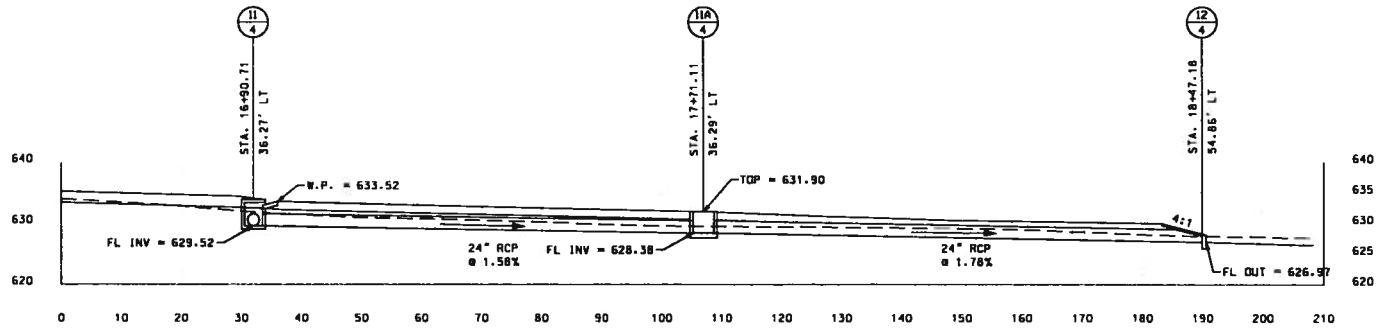
Required: 302' - 18" R.C. Roadway Pipe (Class 3) (Index No. 9 to Index No. 10)
1-Inlet, Type S-1 or S-3 (1 Wing) (Index No. 9)

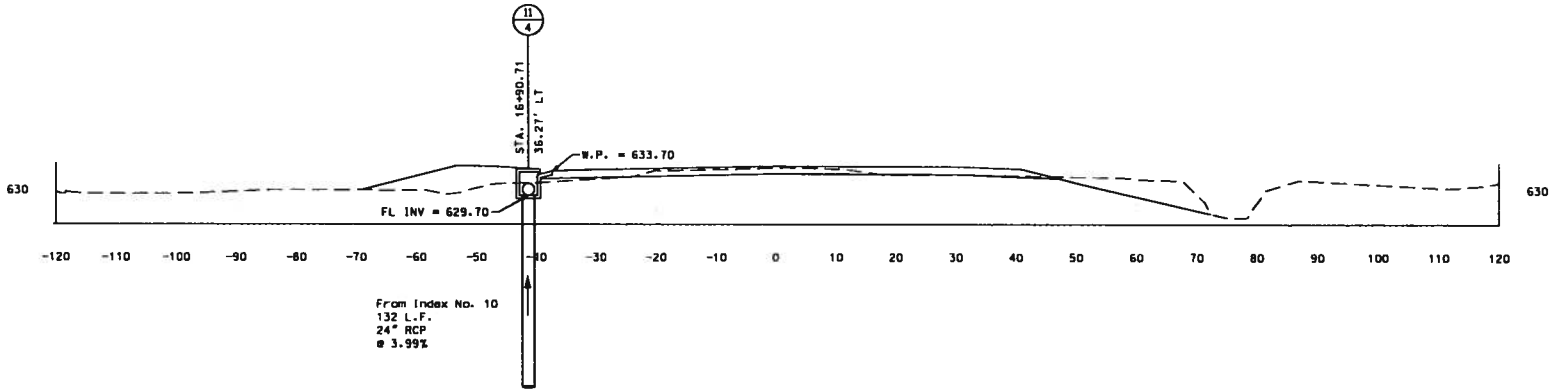


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	DRAINAGE SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	35

Required: 72'-24" R.C. Roadway Pipe (Class 3)
(Index No. 11 to Index No. 11A)
82'- 24" R.C. Roadway Pipe (Class 3)
(Index No. 11A to Index No. 12)
1-Inlet, Type S-1 or S-3 (1 Wing) (Index No. 11)
1-Junction Box, Type 1 Modified (Index No. 11A)
1'- 24" Roadway Pipe End Treatment (Class 1)
(Index No. 12)

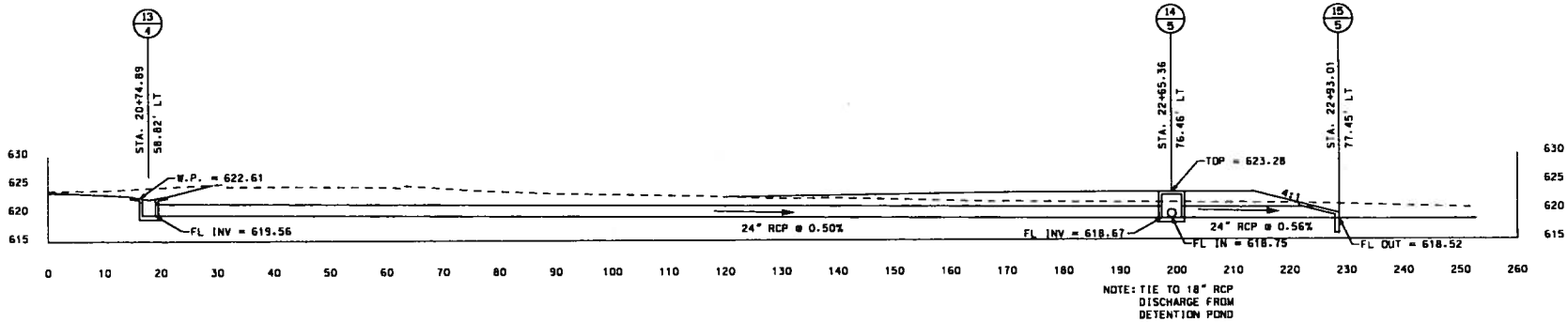




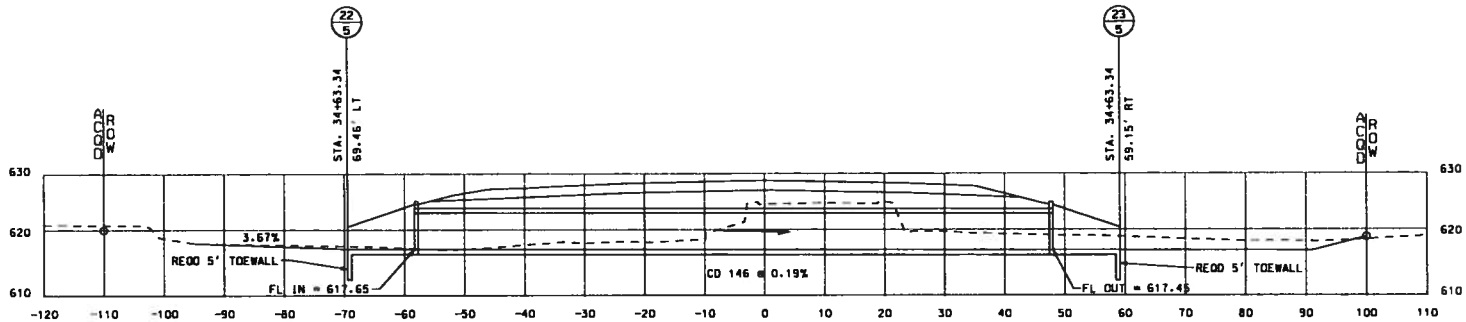
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	DRAINAGE SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	38

Required: 179'- 24" R.C. Roadway Pipe (Class 3)
(Index No. 13 to Index No. 14)
28' - 24" R.C. Roadway Pipe (Class 3)
(Index No.14 to Index No. 15)
1-Inlet, Type Y (Case 4) (Index No. 13)
1-Junction Box, Type 1 Modified (Index No. 14)
1-24" Roadway Pipe End Treatment, Class 1 (Index No. 15)



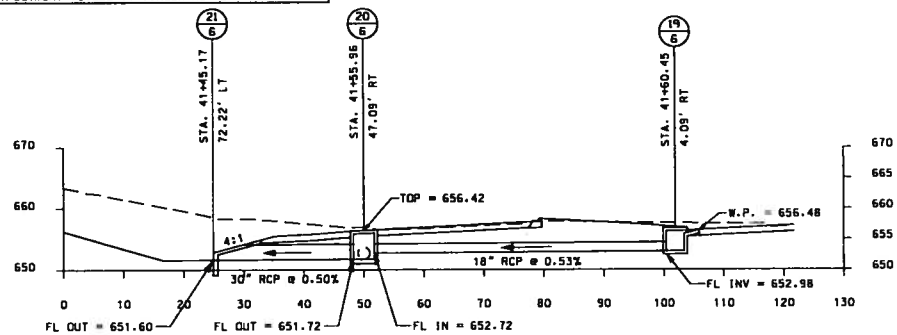
Sta. 34+63.34
No Skew
Fill: 0-6'
Required: 107'- CD 146 (Index No. 22 to Index No. 23)
1 Set W6-3:1-0" Wings (Index No. 22)
1 Set W6-3:1-0" Wings (Index No. 23)



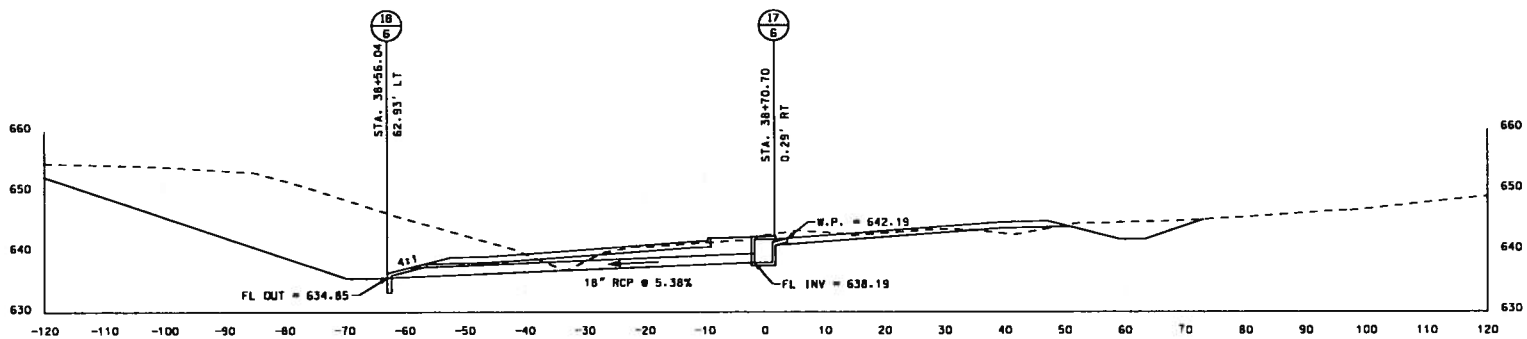
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	DRAINAGE SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	37

Required: 49' - 18" R.C. Roadway Pipe, Class 3 (Index No. 19 to Index No. 20)
24' - 30" R.C. Roadway Pipe, Class 3 (Index No. 20 to Index No. 21)
1 - Inlet, Type S-1 or S-3 (1 Wing) (Index No. 19)
1 - Junction Box, Type 1 (Modified) (Index No. 20)
1- 30" Roadway Pipe End Treatment (Class 1) (Index No. 21)



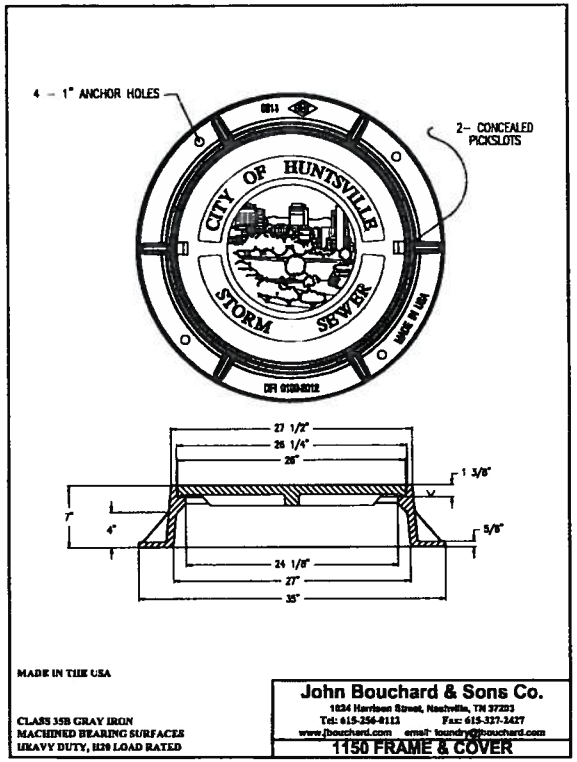
Required: 62'- 18" R.C. Roadway Pipe (Class 3)
(Index No. 17 to Index No. 18)
1-Inlet, Type S-1 or S-3 (1 Wing) (Index No. 17)
1- 18" Roadway Pipe End Treatment, Class 1 (Index No. 18)

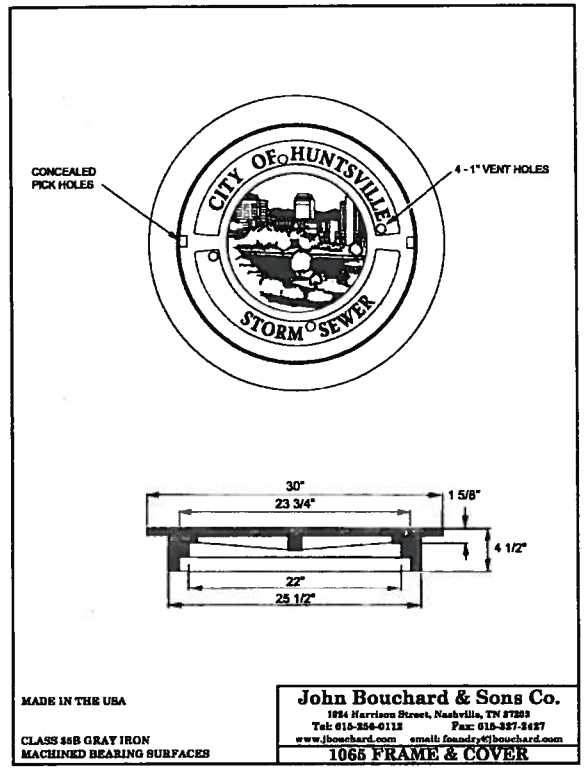


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	DRAINAGE SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	

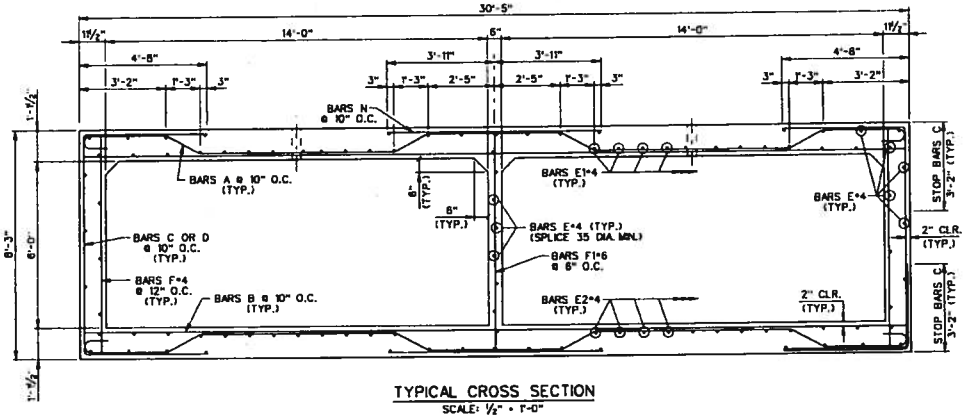
SPECIAL PROJECT DETAIL
JUNCTION BOX, TYPE 1 (MODIFIED) DETAILS





RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION		SPECIAL PROJECT DETAIL JUNCTION BOX, TYPE 1 (MODIFIED) DETAILS	ROUTE CR-17
DATE:	DATE:	DATE:					

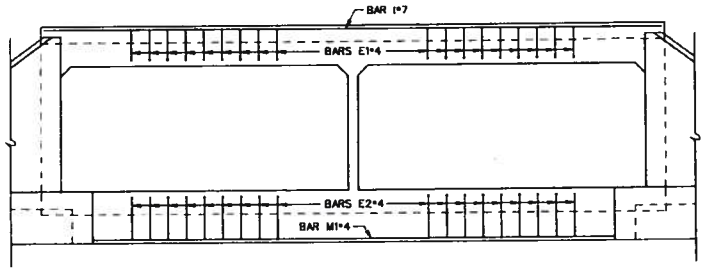
REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	8/8



TYPICAL CROSS SECTION

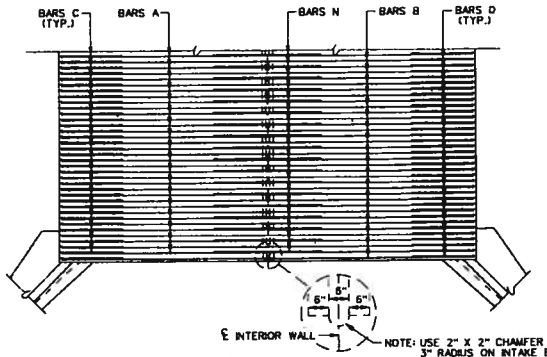
SCALE: ½" = 1'-0"

NOTE: FOR BARS C & D LOCATIONS, SEE "LONGITUDINAL SECTION".



ELEVATION

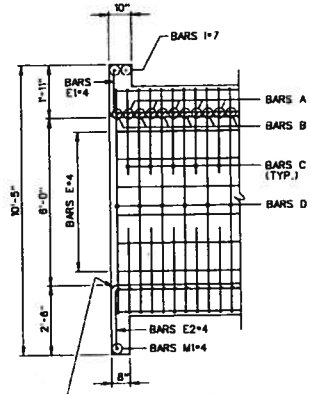
SCALE: ⅜" = 1'-0"



NOTE: USE 2" X 2" CHAMFER FORM STRIP FOR 3" RADIUS ON INTAKE END OF CULVERT CURB SECTION. FINISH TO 3" RADIUS BY RUBBING AFTER FORM HAS BEEN STRIPPED.

PARTIAL PLAN

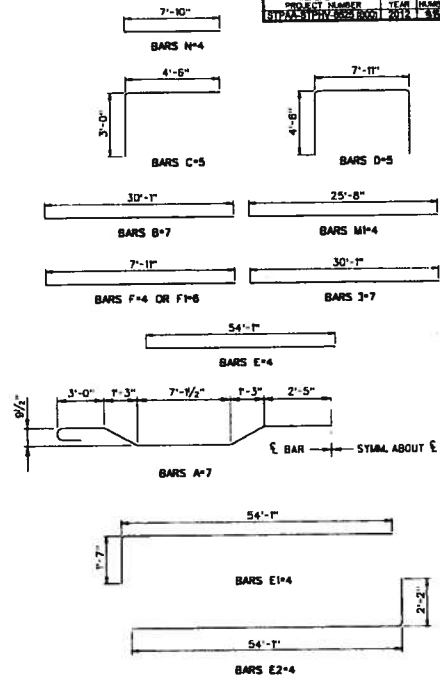
SCALE: ¼" = 1'-0"



USE 4" X 4" CHAMFER FORM STRIP FOR 6" RADIUS ON INTAKE END OF CULVERT CURB SECTION. FINISH TO 6" RADIUS BY RUBBING AFTER FORM HAS BEEN STRIPPED. (TYP.)

LONGITUDINAL SECTION

SCALE: ½" = 1'-0"



NOTE: FOR WINGWALL CONSTRUCTION AND DETAILS SEE STD. DWG. NO. WG-3-1'-0".

ESTIMATED QUANTITIES		
QUANTITY	UNIT	DESCRIPTION
334.2	CUBIC YARDS	CONCRETE
51,098	POUNDS	STEEL REINFORCEMENT

I CERTIFY THAT CHECKS OF (1) DESIGN CALCULATIONS AND (2) DETAILS AND DRAFTING OF PLANS HAVE BEEN MADE BY COMPETENT ENGINEERS OF THIS ORGANIZATION.

APPROVED _____ (DESIGN ENGINEER'S SIGNATURE) DATE _____

REGISTRATION NO. _____

APPROVED _____ (REVIEWING ENGINEER'S SIGNATURE) DATE _____

REGISTRATION NO. _____

BARGE, WAGGONER, SUMNER & CANNON, INC.
THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 1 OF 1

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)
BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK
STA. 25+20

MADISON COUNTY

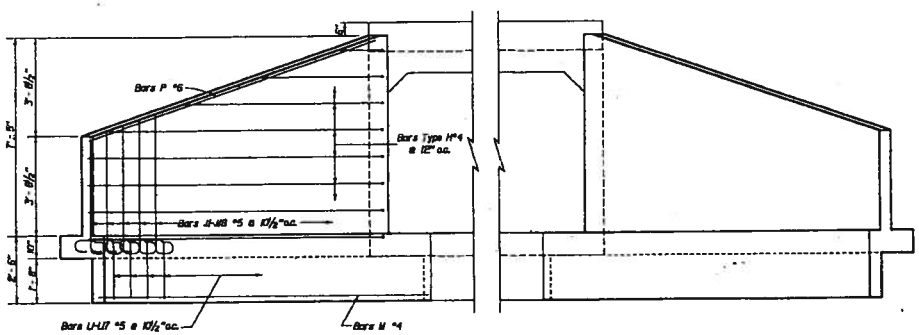
BOX CULVERT DETAILS

BIN:	LEFT LANE	RIGHT LANE

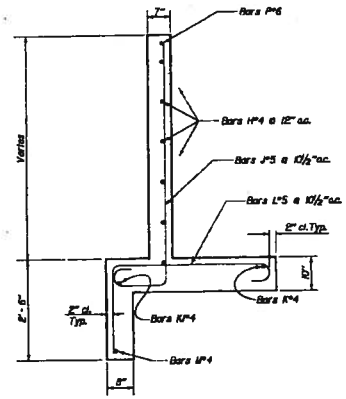
ESTIMATED QUANTITIES	DESIGNED BY: CLE	DRAWN BY: MTJ	
COMPUTED BY: N/A	CHECKED BY: CET	DATE DRAWN: 8/28/12	
VERIFIED BY: N/A	DATE CHECKED: 11__/12	SCALE: SHOWN	

$$$\DESIGN FILE SPECIFICATIONS$$$
SYSTEM DATE&TIME:
Plotted:

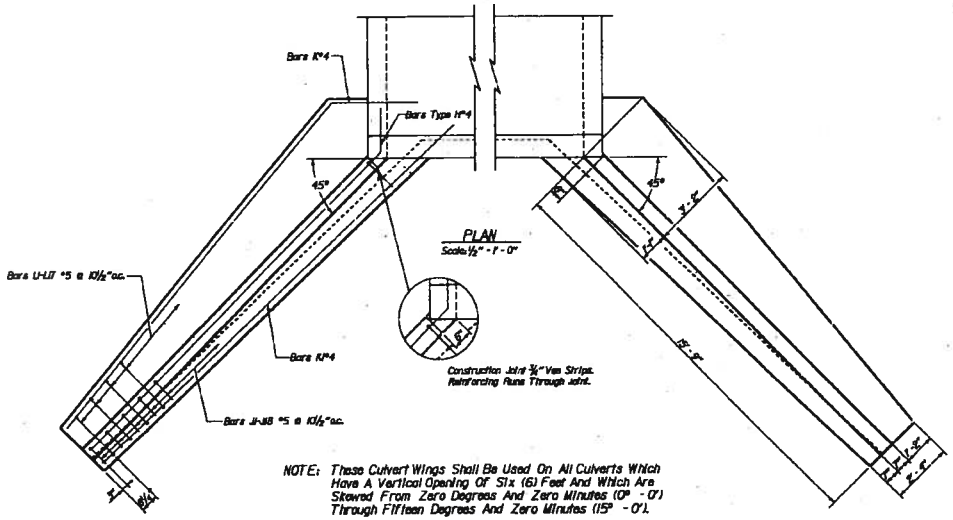
FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	STP 18 - STPHV - 9525(00)	20 18	39	.



ELEVATION
Scale: ½" = 1'-0"

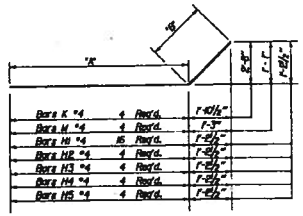


TYPICAL WING SECTION
Scale: ¾" = 1'-0"

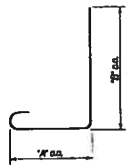


PLAN
Scale: ½" = 1'-0"

NOTE: These Culvert Wings Shall Be Used On All Culverts Which Have A Vertical Opening Of Six (6) Feet And Which Are Skewed From Zero Degrees And Zero Minutes (0° - 0') Through Fifteen Degrees And Zero Minutes (15° - 0').



Bars K #4	4	Req'd.	1'-10½"
Bars U #4	4	Req'd.	1'-3"
Bars H1 #4	16	Req'd.	1'-8½"
Bars H2 #4	4	Req'd.	1'-8½"
Bars H3 #4	4	Req'd.	1'-8½"
Bars H4 #4	4	Req'd.	1'-8½"
Bars H5 #4	4	Req'd.	1'-8½"



Bars "J" and "L"

Bar	Size	No.	Total Length	DIMENSIONS "K"	DIMENSIONS "B"
J1	#5	4	5'-8"	0'-10"	4'-3"
J2	#5	4	5'-11½"	0'-10½"	4'-6"
J3	#5	4	6'-2½"	0'-11"	4'-8½"
J4	#5	4	6'-5"	0'-11"	4'-11"
J5	#5	4	6'-8"	0'-11½"	5'-1½"
J6	#5	4	6'-11"	1'-0"	5'-4"
J7	#5	4	7'-1½"	1'-0"	5'-6½"
J8	#5	4	7'-4½"	1'-0½"	5'-9"
J9	#5	4	7'-7½"	1'-1"	5'-11½"
J10	#5	4	7'-10"	1'-1"	6'-2"
J11	#5	4	8'-1½"	1'-1½"	6'-5"
J12	#5	4	8'-4½"	1'-2"	6'-7½"
J13	#5	4	8'-7"	1'-2"	6'-10"
J14	#5	4	8'-10"	1'-2½"	7'-0½"
J15	#5	4	9'-1"	1'-3"	7'-3"
J16	#5	4	9'-3½"	1'-3"	7'-5½"
J17	#5	4	9'-6½"	1'-3½"	7'-8"
J18	#5	4	9'-9½"	1'-4"	7'-10½"
L1	#5	4	4'-10"	2'-1"	2'-2"
L2	#5	4	4'-11½"	2'-1½"	2'-2"
L3	#5	4	5'-0½"	2'-3½"	2'-2"
L4	#5	4	5'-2"	2'-5"	2'-2"
L5	#5	4	5'-3"	2'-6"	2'-2"
L6	#5	4	5'-4½"	2'-7½"	2'-2"
L7	#5	4	5'-5½"	2'-8½"	2'-2"
L8	#5	4	5'-7"	2'-10"	2'-2"
L9	#5	4	5'-8"	2'-11"	2'-2"
L10	#5	4	5'-9½"	3'-0½"	2'-2"
L11	#5	4	5'-11"	3'-2"	2'-2"
L12	#5	4	6'-0"	3'-3"	2'-2"
L13	#5	4	6'-1½"	3'-4½"	2'-2"
L14	#5	4	6'-2½"	3'-5½"	2'-2"
L15	#5	4	6'-4"	3'-7"	2'-2"
L16	#5	4	6'-5"	3'-8"	2'-2"
L17	#5	4	6'-6½"	3'-9½"	2'-2"
P	#6	4	13'-6"	—	—
K	#4	4	18'-11"	15'-8"	3'-3"
KU	#4	4	18'-3"	—	—
U	#4	4	18'-7½"	16'-11½"	1'-8"
H1	#4	16	17'-3"	15'-7"	1'-8"
H2	#4	4	16'-0"	14'-4"	1'-8"
H3	#4	4	11'-8"	10'-3"	1'-8"
H4	#4	4	7'-9"	6'-1"	1'-8"
H5	#4	4	3'-8"	2'-0"	1'-8"

ESTIMATED QUANTITIES FOUR (4) WINGS

18.0 _____ Cubic Yards Concrete

1517 _____ Pounds Reinforcement Steel

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THIS DRAWING WAS TYPED ON 24" OF THE PROJECT STANDARD

REVISIONS

APPROVED :

STATE OF ALABAMA
HIGHWAY DEPARTMENT

STANDARD

REINFORCED CONCRETE BOX CULVERT WINGS OPENING 6' HEIGHT 3' TO 1' SLOPE 0° SKEW

DESIGNED T.J.D. QUANT. CONF. Scott Sell
DRAWN Scott Sell QUANT. CHKD. JAO
TRACED _____ DATE OCT. 22, 1998
CHECKED JAO SCALE As Shown

STANDARD DWG. NO.
W6-3:1-0°

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	42

EROSION AND SEDIMENT CONTROL PLANS LEGEND

BEST MANAGEMENT PRACTICES (BMP's)

TEMPORARY SLOPE DRAIN PIPE WITH ROCK DITCH CHECK AND SUMP EXCAVATION	
TEMPORARY EARTH BERM	
BRUSH BARRIER	
SILT FENCE SEDIMENT BARRIER	
FLOATING BASIN BOOM	
HAY BALE DITCH CHECK	
SAND BAG DITCH CHECK	
WATTLE DITCH CHECK	
SILT DIKE DITCH CHECK	
ROCK DITCH CHECK	
ROCK DITCH CHECK WITH SUMP EXCAVATION	

INLET PROTECTION	
STABILIZED CONSTRUCTION ENTRANCE	SCE
EROSION CONTROL PRODUCTS	
SLOPE DRAIN	
TEMPORARY EARTH BERM WITH POLYETHLENE	
DREDGE, FILL	
PRIMARY STORMWATER DISCHARGE POINT	25.0
SECONDARY STORMWATER DISCHARGE POINT	25.A
BACKGROUND POINT	25.1

EROSION AND SEDIMENT CONTROL PHASES

PRE-CONSTRUCTION PHASE - AS CLEARING BEGINS AND PRIOR TO ANY GRUBBING OR GRADING WORK.

CONSTRUCTION PHASE - AS NEEDED. AS WORK IS ONGOING AND ADVANCING TOWARD COMPLETION.

POST CONSTRUCTION - AS WORK IS COMPLETED AND PERMANENT VEGETATION IS ESTABLISHED.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

REVISIONS

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

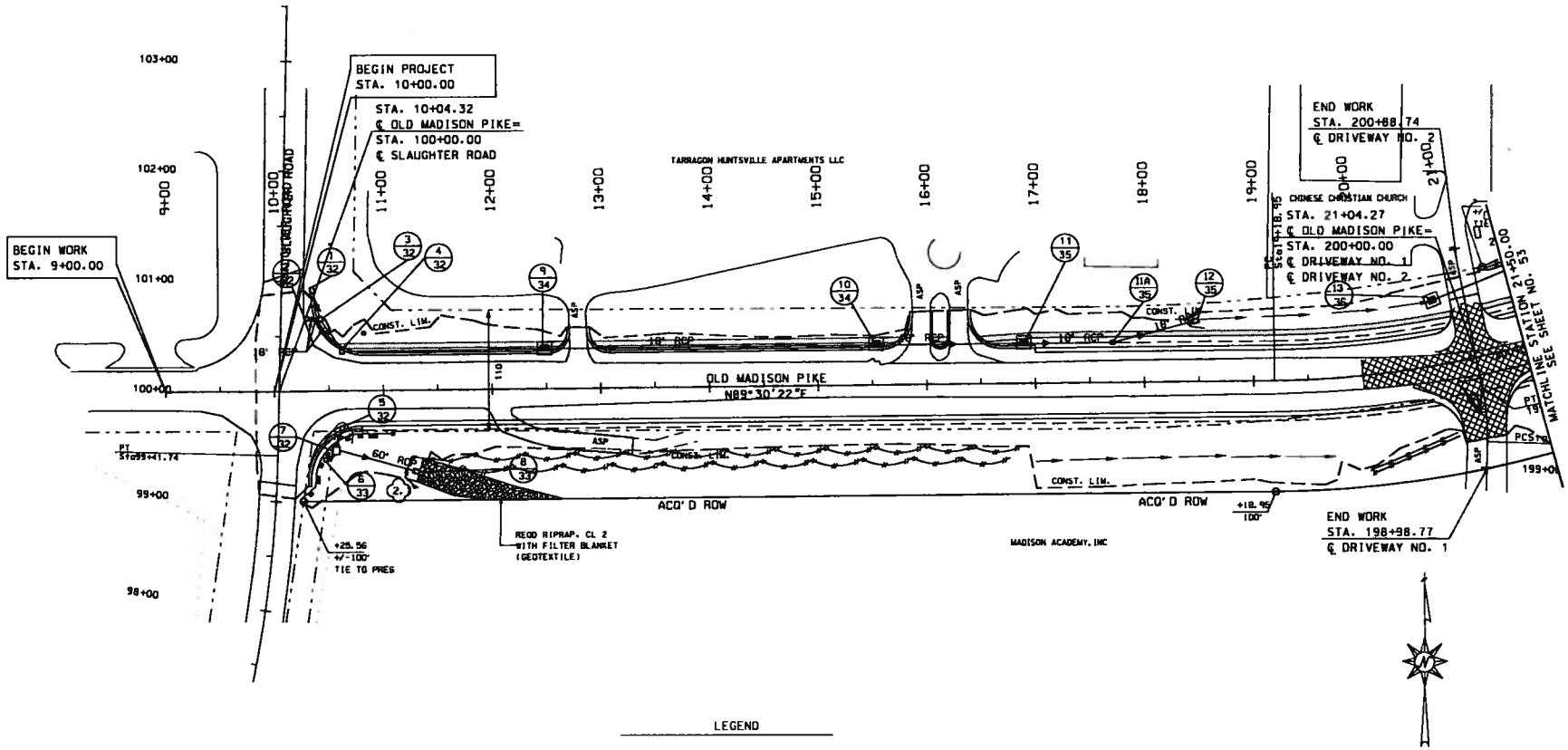
SPECIAL PROJECT DETAIL

EROSION AND SEDIMENT CONTROL LEGEND

DRAWN BY: CAW
DATE DRAWN: 2008

NOT TO SCALE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	43

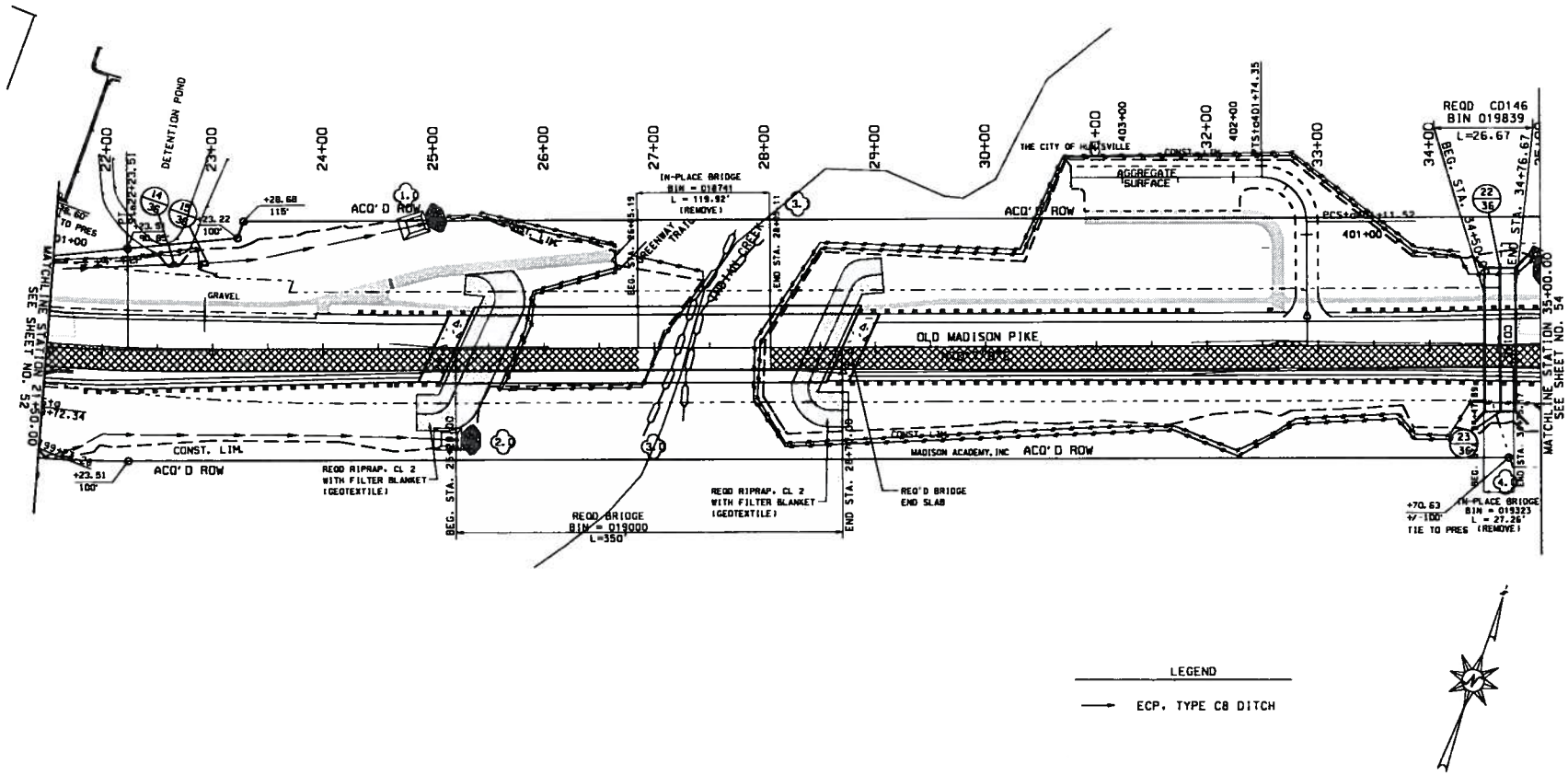


LEGEND

ECP. TYPE C8 DITCH

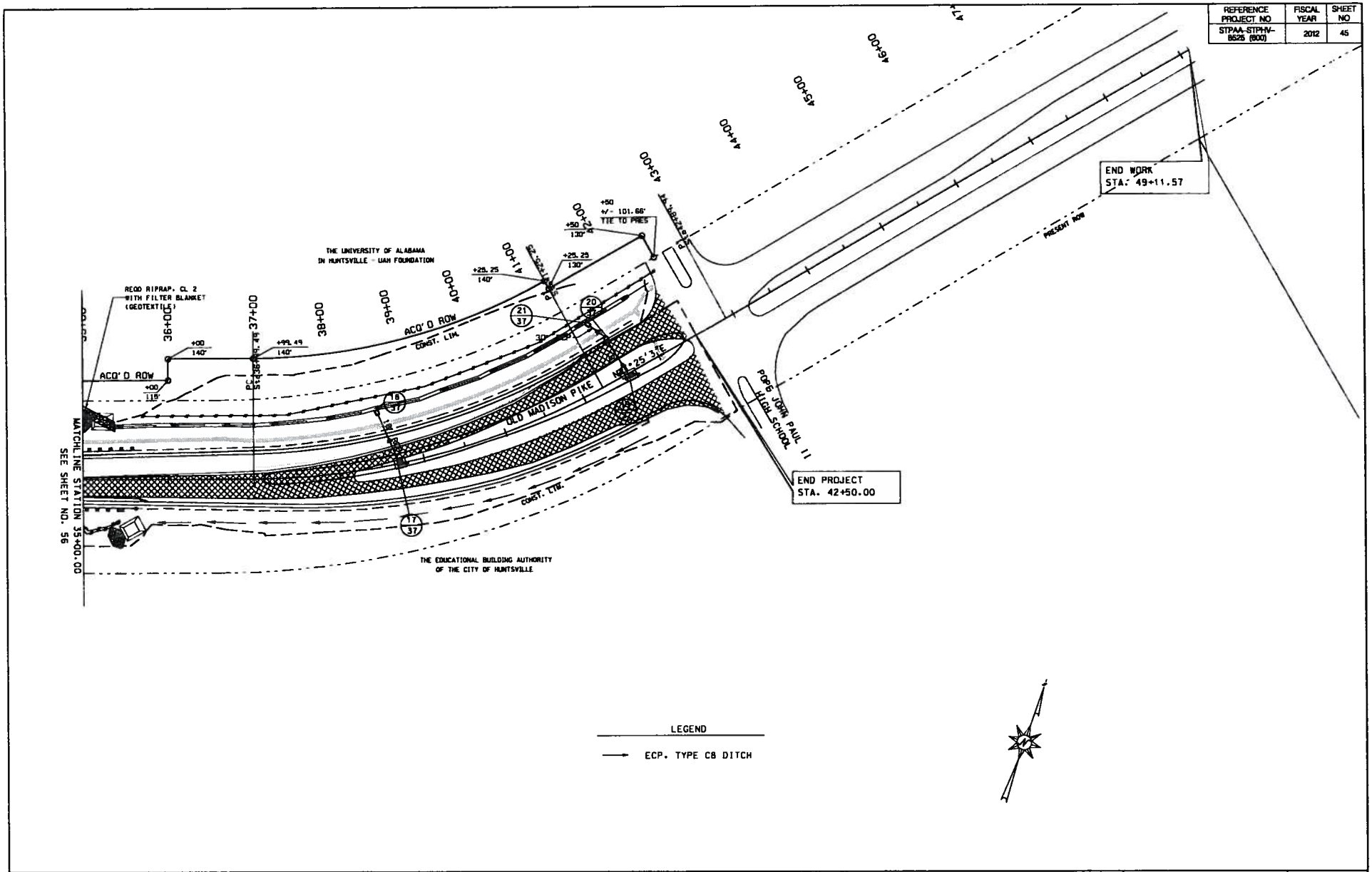
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	EROSION AND SEDIMENT CONTROL PLAN PRE-CONSTRUCTION PHASE OLD MADISON PIKE STA. 10+00.00 TO 21+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (000)	2012	44



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	EROSION AND SEDIMENT CONTROL PLAN PRE CONSTRUCTION PHASE OLD MADISON PIKE STA. 21+50.00 TO 35+00.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	45



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

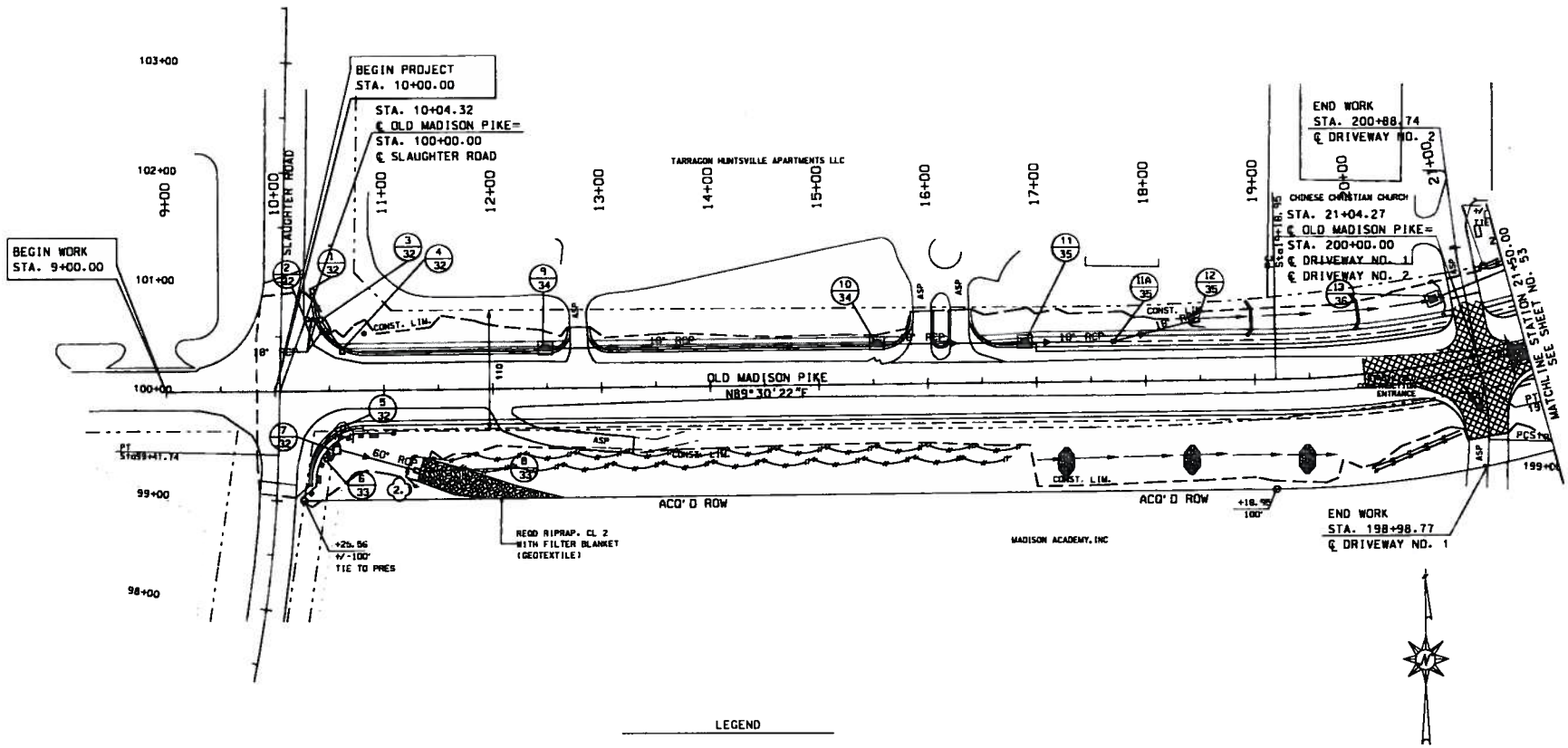
ALABAMA DEPARTMENT OF TRANSPORTATION

50 25 0 50
SCALE IN FEET

EROSION AND SEDIMENT CONTROL PLAN
PRE-CONSTRUCTION PHASE
OLD MADISON PIKE
STA. 35+00.00 TO 42+50.00

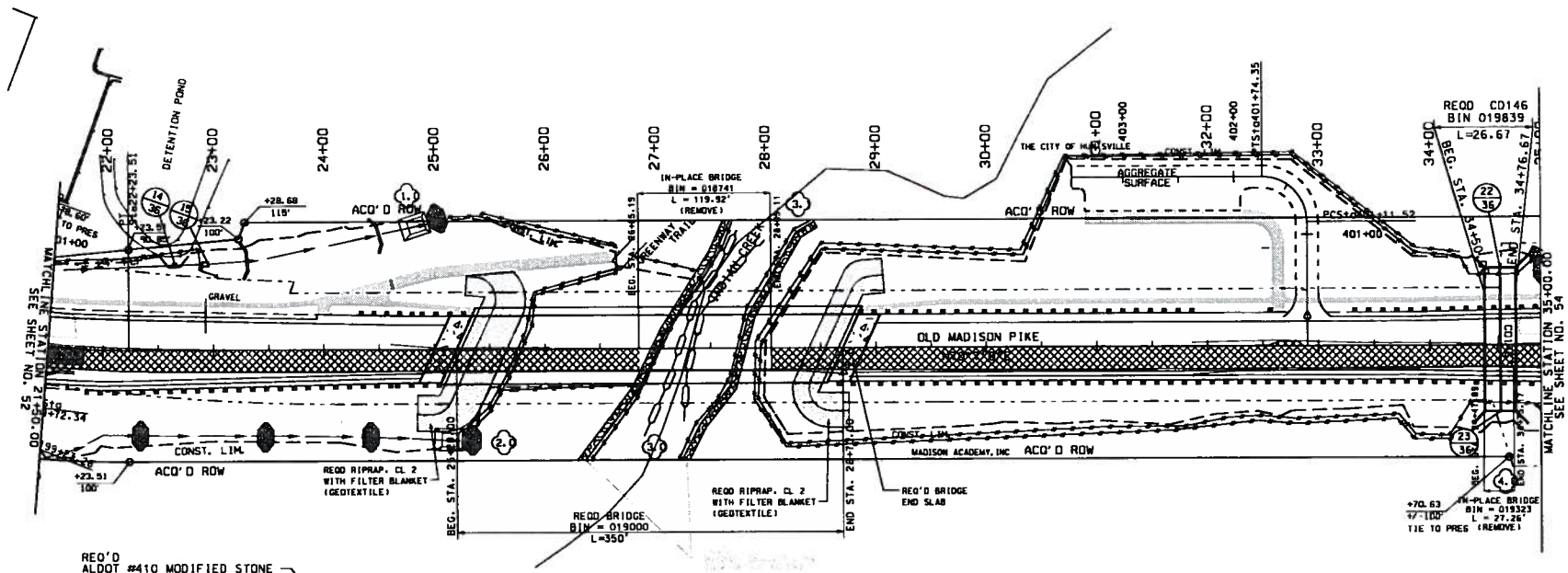
ROUTE
CR-17

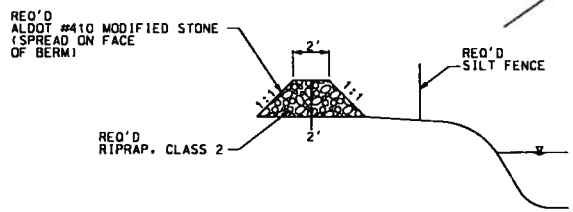
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	48



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	EROSION AND SEDIMENT CONTROL PLAN CONSTRUCTION PHASE OLD MADISON PIKE STA. 10+00.00 TO 21+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	47





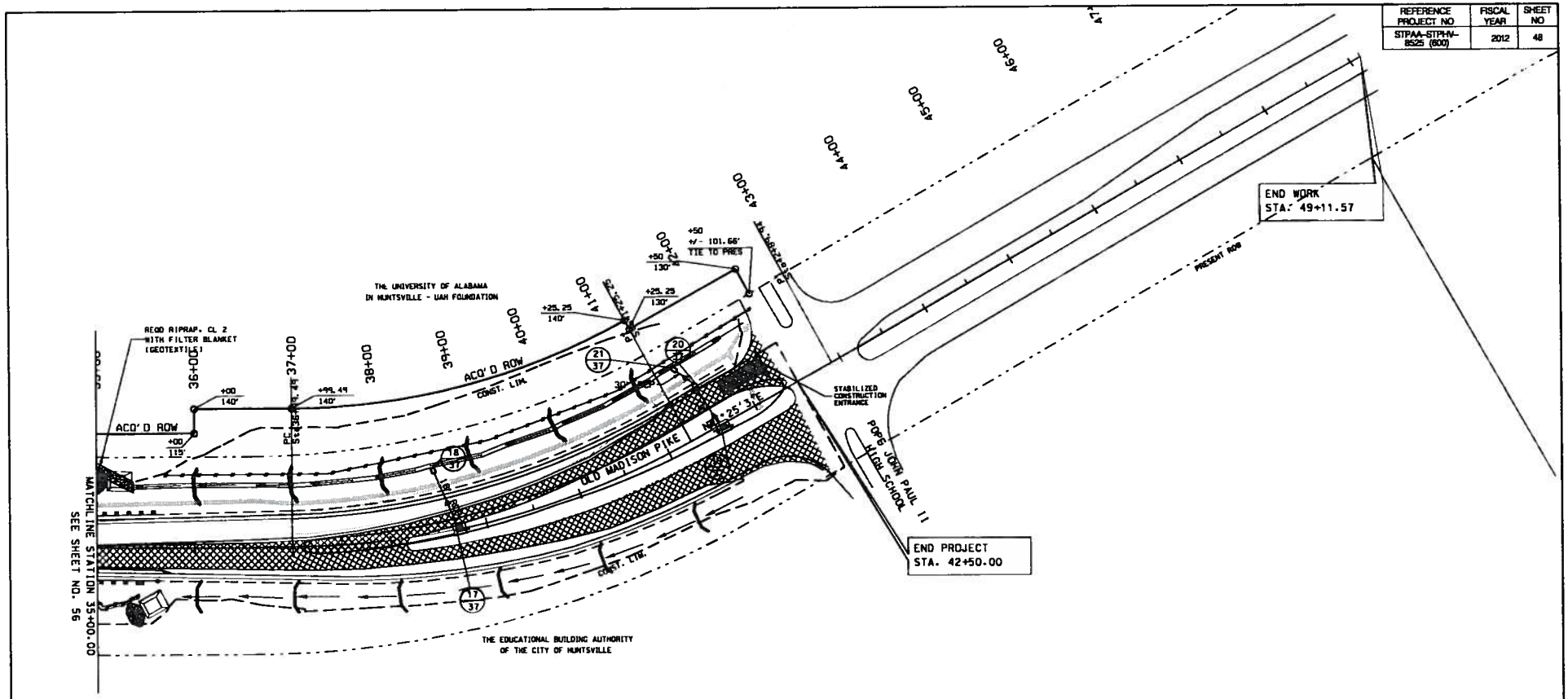
REQ'D RIPRAP, CLASS 2 BERM
AT TOE OF ABUTMENT SLOPE
N.T.S.

LEGEND

ECP, TYPE C8 DITCH

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	EROSION AND SEDIMENT CONTROL PLAN CONSTRUCTION PHASE OLD MADISON PIKE STA. 21+50.00 TO 35+00.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	48



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

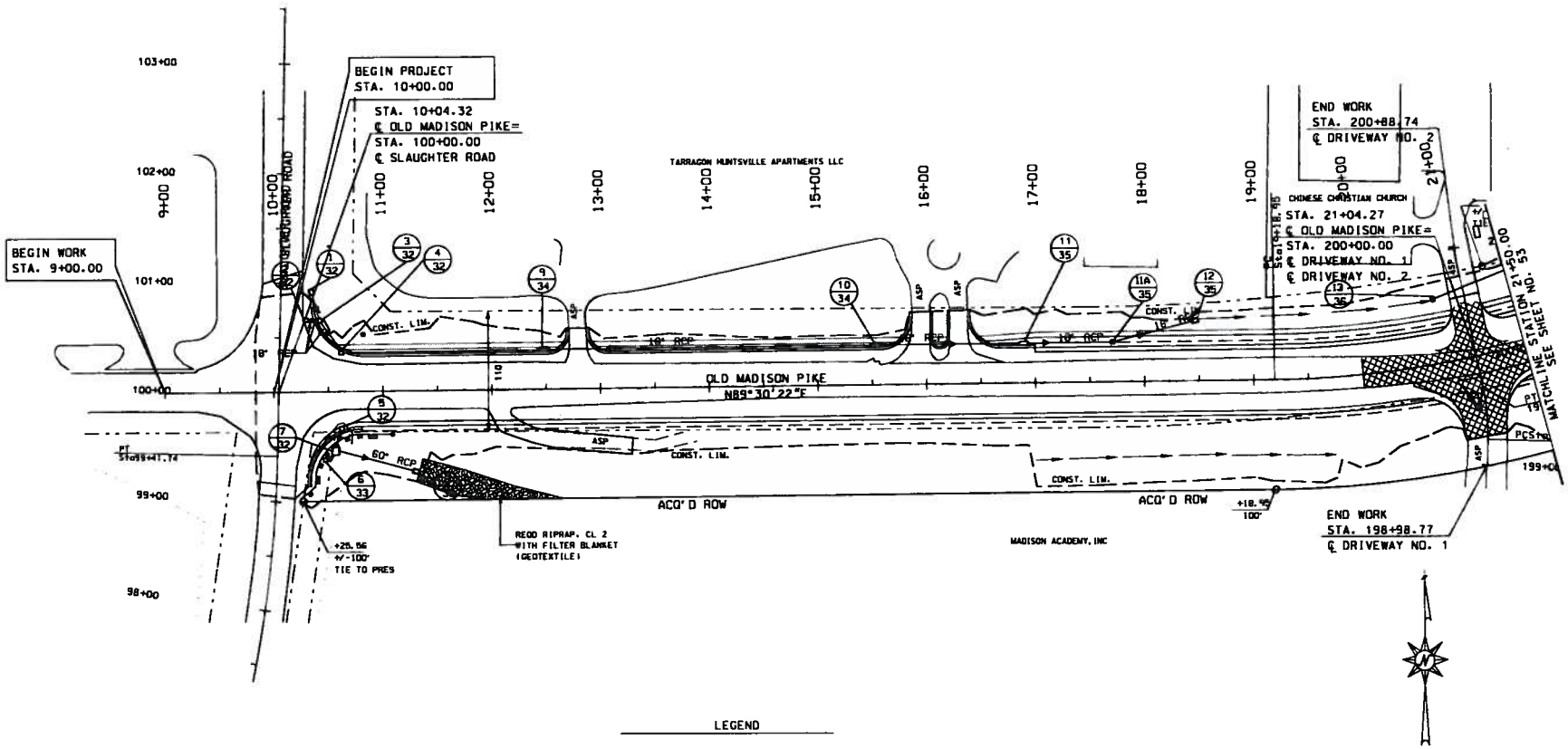
ALABAMA DEPARTMENT OF TRANSPORTATION

50 25 0 50
SCALE IN FEET

EROSION AND SEDIMENT CONTROL PLAN
CONSTRUCTION PHASE
OLD MADISON PIKE
STA. 35+00.00 TO 42+50.00

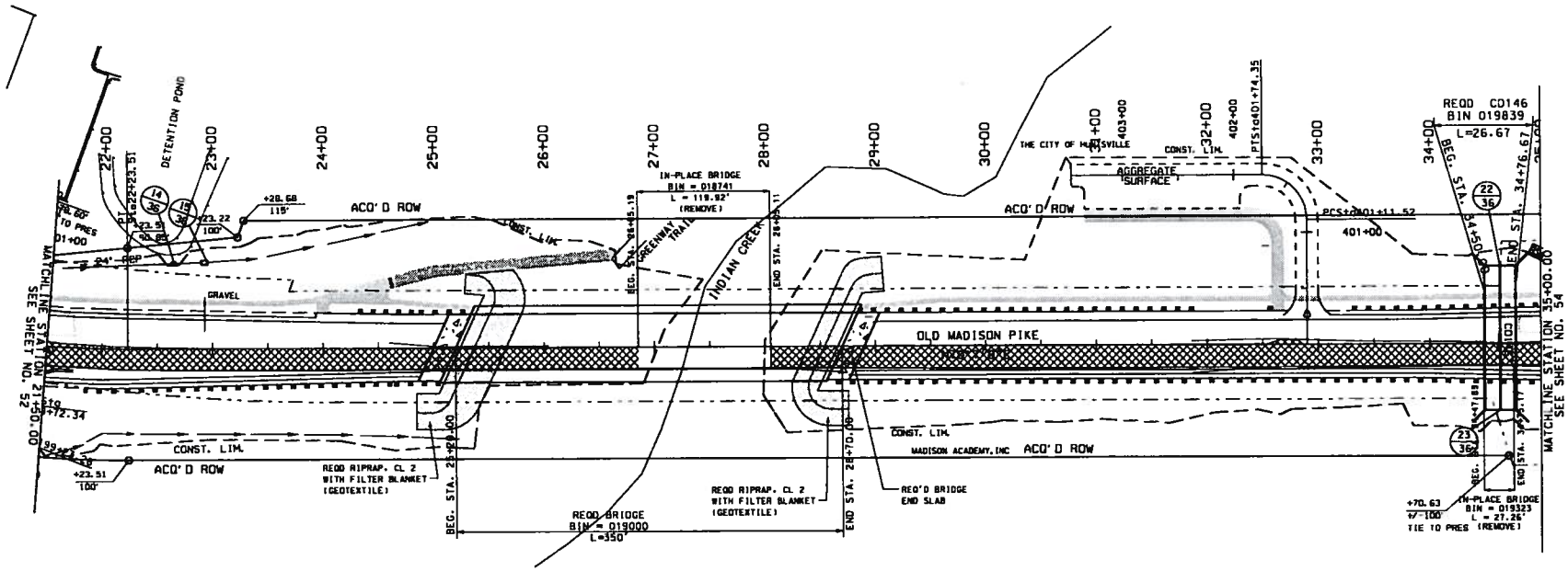
ROUTE
CR-17

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	49



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	EROSION AND SEDIMENT CONTROL PLAN POST CONSTRUCTION PHASE OLD MADISON PIKE STA. 10+00.00 TO 21+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	50



LEGEND

ECP, TYPE C8 DITCH

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

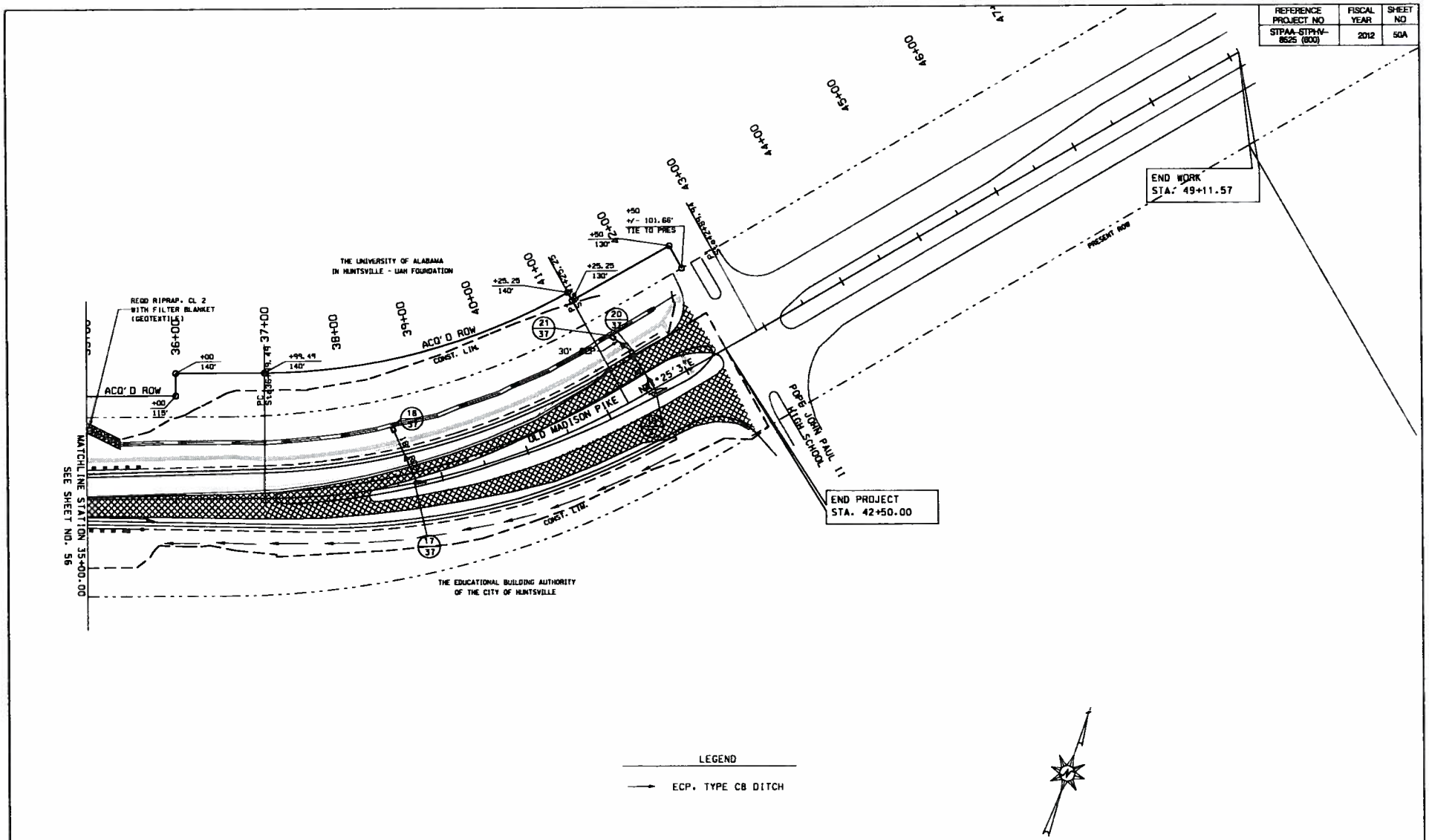
ALABAMA DEPARTMENT OF TRANSPORTATION

50 25 0 50
SCALE IN FEET

EROSION AND SEDIMENT CONTROL PLAN
POST CONSTRUCTION PHASE
OLD MADISON PIKE
STA. 21+50.00 TO 35+00.00

ROUTE CR-17

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8625 (800)	2012	50A



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	EROSION AND SEDIMENT CONTROL PLAN POST CONSTRUCTION PHASE OLD MADISON PIKE STA. 35+00.00 TO 42+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8625 (800)	2012	61

SEQUENCE OF CONSTRUCTION

CONSTRUCTION

PHASE 1

- ERECT ALL APPLICABLE TRAFFIC CONTROL DEVICES.

PHASE 2

- CONSTRUCT WIDENING ALONG NORTH SIDE OF IN-PLACE OLD MADISON PIKE THROUGH THE UPPER BINDER LAYER FROM STA. 10+00.00 TO STA. 19+00.00

PHASE 3

- INSTALL DETOUR SIGNING AS SHOWN ON SHEET 58
- CONSTRUCT WIDENING ALONG SOUTH SIDE OF OLD MADISON PIKE THROUGH THE UPPER BINDER LAYER FROM STA. 10+00.00 TO STA. 19+00.00.
- CLOSE OLD MADISON PIKE FROM STA. 19+00.00 TO STA. 42+50.00
- REMOVE IN-PLACE BRIDGES AND BOX CULVERTS.
- CONSTRUCT REQUIRED BRIDGES, BOX CULVERTS AND ROADWAY THROUGH THE UPPER BINDER LAYER FROM STA. 19+00.00 TO STA. 42+50.00.
- INSTALL NEW SIGNAL AND REMOVE EXISTING SIGNAL AT THE INTERSECTION OF OLD MADISON PIKE AND SLAUGHTER ROAD

PHASE 4

- CONSTRUCT WEARING SURFACE ON ALL ROADWAYS.
- INSTALL PERMANENT SIGNING, STRIPING, PAVEMENT MARKERS AND PAVEMENT MARKINGS ON ALL ROADWAYS.

PHASE 5

- COMPLETE ANY REMAINING ITEMS OF WORK AND REMOVE CONSTRUCTION TRAFFIC CONTROL DEVICES.

TRAFFIC

PHASE 1

- TRAFFIC NOT AFFECTED

PHASE 2

- MAINTAIN ACCESS TO ALL DRIVEWAYS

PHASE 3

- MAINTAIN ACCESS TO ALL DRIVEWAYS
- ROAD CLOSED FROM STA. 19+00 TO STA. 42+50 FOR A PERIOD NOT TO EXCEED 9 MONTHS. SEE SHEET 58 FOR DETOUR PLAN.

PHASE 4

- SHIFT TRAFFIC TO FINAL LOCATIONS

PHASE 5

- TRAFFIC NOT AFFECTED

CONSTRUCTION SIGNS

	DESCRIPTION	SIZE	QUANTITY	SQ. FT.	MOUNTING TYPE	STANDARD DRAWING NO.
R5-1	DO NOT ENTER	30" X 30"	6	37.5	BARRICADE	B
R11-2	ROAD CLOSED	48" X 30"	5	50	BARRICADE	C
R11-3b	BRIDGE OUT 1.5 MILES AHEAD	60" X 30"	1	12.5	BARRICADE	C
R11-4	ROAD CLOSED TO THRU TRAFFIC	60" X 30"	2	25	BARRICADE	D
M1-6	COUNTY ROAD 17	24" X 14"	20	47	POST	E
M3-2	CARDINAL DIRECTION EAST	24" X 12"	11	22	POST	F
M3-4	CARDINAL DIRECTION WEST	24" X 12"	9	18	POST	F
M5-1R	ADVANCE TURN ARROW RIGHT	21" X 15"	5	11	POST	G
M5-1L	ADVANCE TURN ARROW LEFT	21" X 15"	5	11	POST	G
M6-1R	DIRECTIONAL ARROW RIGHT	21" X 15"	4	9	POST	G
M6-1L	DIRECTIONAL ARROW LEFT	21" X 15"	5	11	POST	G
M6-3	DIRECTIONAL ARROW STRAIGHT	21" X 15"	1	3	POST	G
W1-6L	ARROW LEFT	48" X 24"	1	8	BARRICADE	M
W4-2	LEFT LANE ENDS	48" X 48"	2	32	TEMP	M
W20-1	ROAD WORK AHEAD	48" X 48"	2	32	POST	N
W20-1	ROAD WORK 500 FT	48" X 48"	3	48	POST	N
W20-1	ROAD WORK 1000 FT	48" X 48"	3	48	POST	N
W20-1	ROAD WORK 1500 FT	48" X 48"	3	48	POST	N
W20-3	ROAD CLOSED 500 FT	48" X 48"	5	80	POST	N
W20-3	ROAD CLOSED 1000 FT	48" X 48"	5	80	POST	N
W20-3	ROAD CLOSED 1500 FT	48" X 48"	5	80	POST	N
W20-5	CENTER LANE CLOSED 500 FT	48" X 48"	2	32	TEMP	N
W20-5	CENTER LANE CLOSED 1000 FT	48" X 48"	2	32	TEMP	N
W20-5	CENTER LANE CLOSED 1500 FT	48" X 48"	2	32	TEMP	N
W20-5	LEFT LANE CLOSED 1000 FT	48" X 48"	2	32	TEMP	N
W20-5	LEFT LANE CLOSED 1500 FT	48" X 48"	2	32	TEMP	N
W20-5	RIGHT LANE CLOSED 1000 FT	48" X 48"	2	32	TEMP	N
W20-5	RIGHT LANE CLOSED 1500 FT	48" X 48"	2	32	TEMP	N
W20-7a	FLAGGER	48" X 48"	2	32	TEMP	N
G20-2a	END ROAD WORK	48" X 24"	3	24	POST	A
M4-8	DETOUR	24" X 12"	20	40	POST	A
M4-8a	END DETOUR	36" X 24"	3	18	POST	A
TOTAL				1051		

ESTIMATED QUANTITIES

QUANTITY	ITEM NO.	UNIT	DESCRIPTION	STANDARD DRAWING NO.
1051	740B-000	SQ FT	CONSTRUCTION SIGNS	A, B, C, D, E, F, G, J, K, L, M, N
60	740D-000	EACH	CHANNELIZING DRUMS	I
50	740E-000	EACH	CONES (36 INCHES HIGH)	I
19	740F-002	EACH	BARRICADES TYPE III	H
9	740I-002	EACH	WARNING LIGHTS, TYPE B	H
50	740M-001	EACH	BALLAST FOR CONE	I
2	741C-010	EACH	PORTABLE SEQUENTIAL ARROW AND CHEVRON UNIT	

LEGEND

- SIGN. POST MOUNT
- CHANNELIZING DRUMS
- TYPE III BARRICADE
- TRAFFIC DIRECTION
- WORK ZONE

PROJECT NOTES

700-705	727-729
707-713	732-737
715-716	739-742
720	744
723	746-747
725	749-750

REQUIRED SPECIAL DRAWINGS

A.	SHS-27	G.	SHS-17	M.	SHS-22
B.	SHS-3	H.	B-107-2	N.	SHS-25
C.	SHS-6	I.	TCD-100		
D.	SHS-7	J.	IHS-710-12		
E.	SHS-15	K.	IHS-710-21		
F.	SHS-16	L.	IHS-710-23		

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

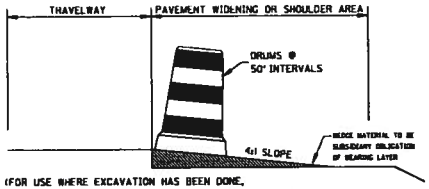
ALABAMA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - SEQUENCE OF CONSTRUCTION, LEGEND, AND ESTIMATED QUANTITIES

ROUTE CR-17

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525(600)	2012	51A

Temporary Traffic Control Plan Sheet

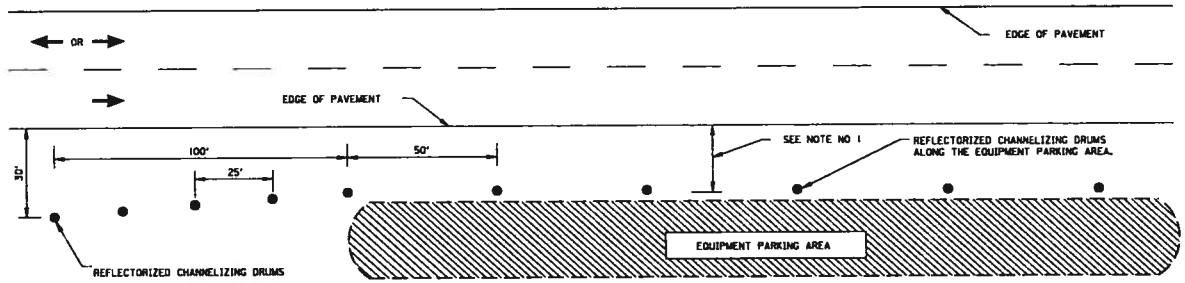


(FOR USE WHERE EXCAVATION HAS BEEN DONE, BUT WIDENING IS NOT COMPLETED BY NIGHTFALL OR WHERE PAVEMENT DROP OFF OF RESUFACING PROJECTS IS 3" OR MORE AT NIGHTFALL)

TYPICAL FOR DROP-OFF AT EDGE OF PAVEMENT

NOTE: THE CONTRACTOR IS TO CONSTRUCT A WEDGE OF UNCLASSIFIED EXCAVATION OR CRUSHED AGGREGATE BASE . THE COST OF PLACING AND REMOVAL SHALL BE A SUBSIDIARY OBLIGATION OF THE ADJACENT LAYER.

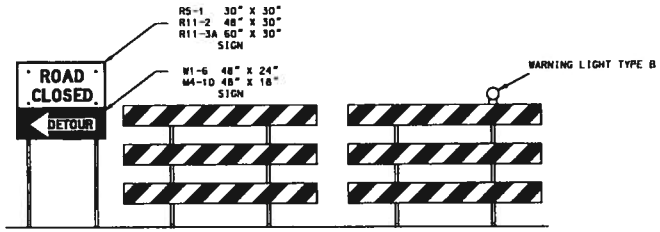
CHANNELIZING DRUMS SHALL BE PLACED AT 50 FT INTERVALS.



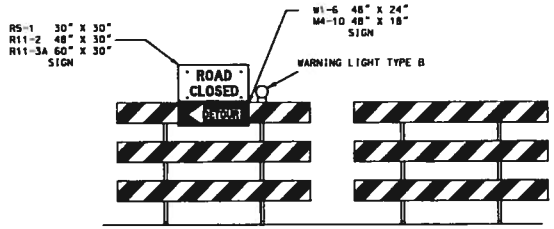
NOTES:

1. DRUMS TO BE AS FAR AS PRACTICAL FROM EDGE OF PAVEMENT, MINIMUM DESIRABLE DISTANCE IS 15 FEET FOR FREEWAY TYPE FACILITIES AND 10 FEET FOR OTHER FACILITIES. FOR UNUSUAL CONDITIONS, SUCH AS SPECIAL EQUIPMENT OR LIMITED AVAILABLE SPACE, DIMENSIONS LESS THAN DESIRABLE SHALL BE AS DIRECTED BY THE ENGINEER.
2. ALL DEVICES TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT.

DELINEATING DETAILS FOR EQUIPMENT PARKING AREA



DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES INSIDE OF CLEAR ZONE



DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES OUTSIDE OF CLEAR ZONE

NOTES

1. SLOPE OF STRIPES ON BARRICADES SHALL BE IN ACCORDANCE WITH SECTION 6F.63 OF THE MUTCD AND DRAWING B-107-2.
2. IF SIGNS ARE REQUIRED TO BE USED IN CONJUNCTION WITH TYPE III BARRICADES TO BE PLACED INSIDE THE CLEAR ZONE, THEY SHALL BE POST MOUNTED TO THE SIDE OF THE BARRICADES AS SHOWN.
3. IF ROAD CLOSED OR DETOUR SIGNS ARE REQUIRED TO BE USED WITH TYPE III BARRICADES TO BE PLACED OUTSIDE THE CLEAR ZONE, THEY SHALL BE PLACED ON THE TOP OF THE BARRICADES NEAREST THE DETOUR.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

STANDARD DETAILS FOR TRAFFIC CONTROL PLANS

Bureau Std Engr: L.W.S.
DRAWN BY: _____ DATE DRAWN: 11-18-10

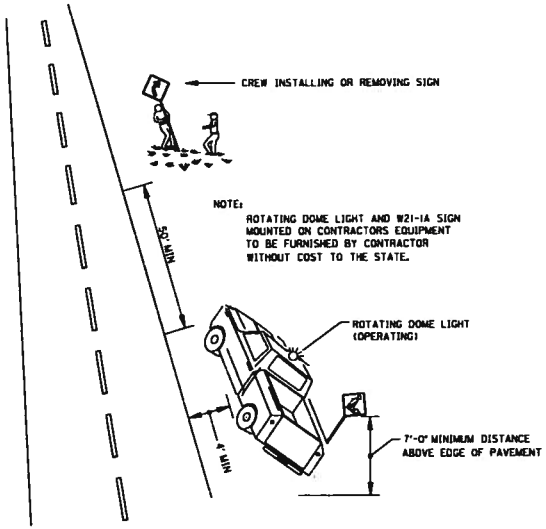
SPECIAL DRAWING NO: SPECIAL PROJECT DETAIL

SHEET NO: 2001

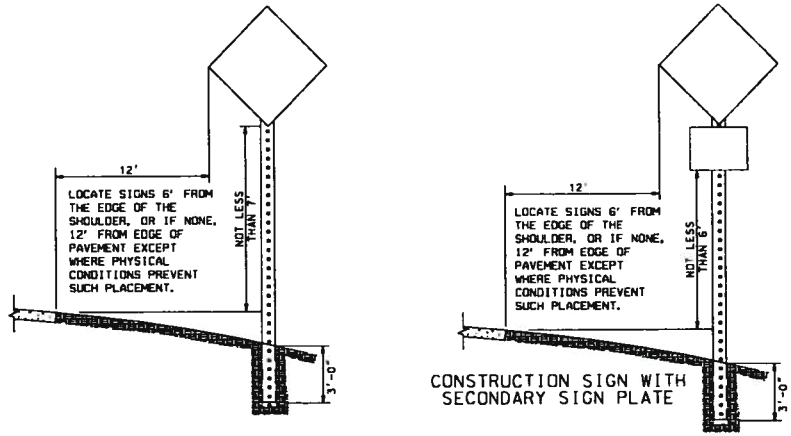
NOT TO SCALE

TEMPORARY TRAFFIC CONTROL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525(800)	2012	51-B

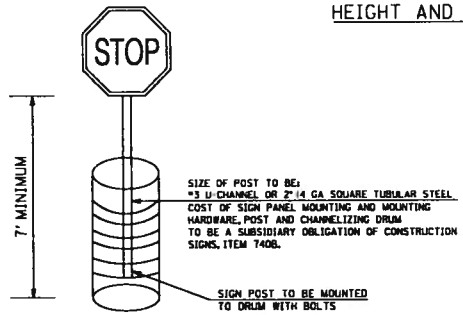


TYPICAL METHOD FOR INSTALLING OR REMOVING CONSTRUCTION SIGNS



NOTE : IF THE CONTRACTOR CHOOSES TO SPLICE THE POSTS FOR THE REQUIRED POST MOUNTED CONSTRUCTION SIGNS, THEY SHALL BE SPLICED AS SHOWN ON DRAWING IHS-710-23.

HEIGHT AND LATERAL LOCATION OF POST MOUNTED CONSTRUCTION SIGNS



DETAIL FOR DRUM MOUNTED CONSTRUCTION SIGNS

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
STANDARD DETAILS
FOR TRAFFIC CONTROL PLANS

DRAWN BY:
DATE DRAWN: 07/21/11

SPECIAL PROJECT DETAIL

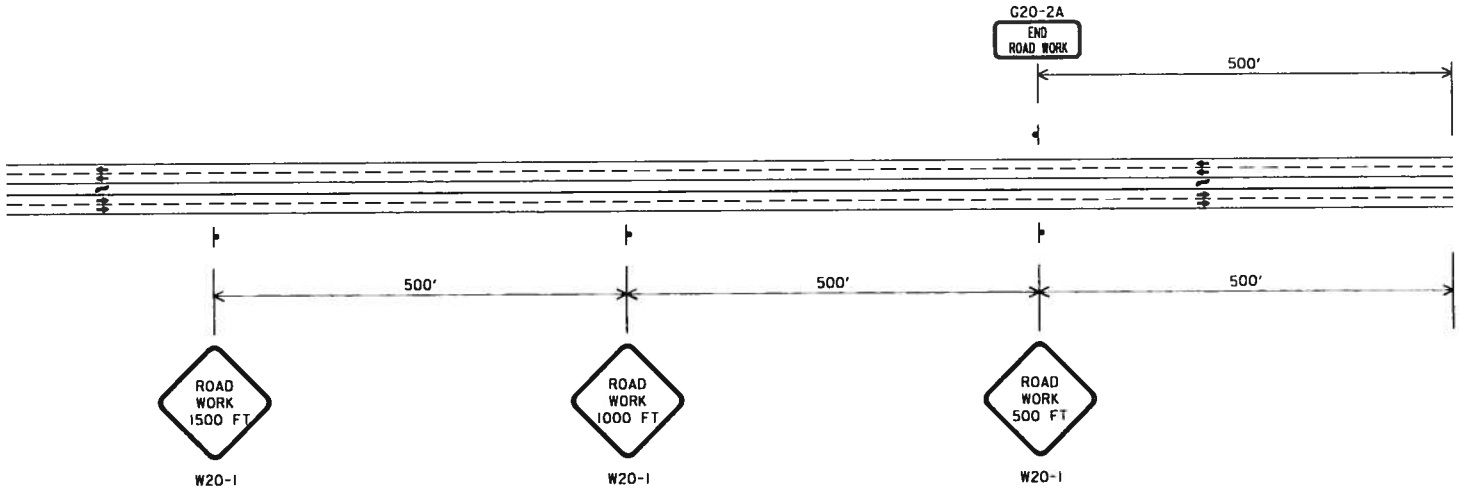
INDEX NO. 2001A

SHEET TITLE

ROUTE

NOT TO SCALE

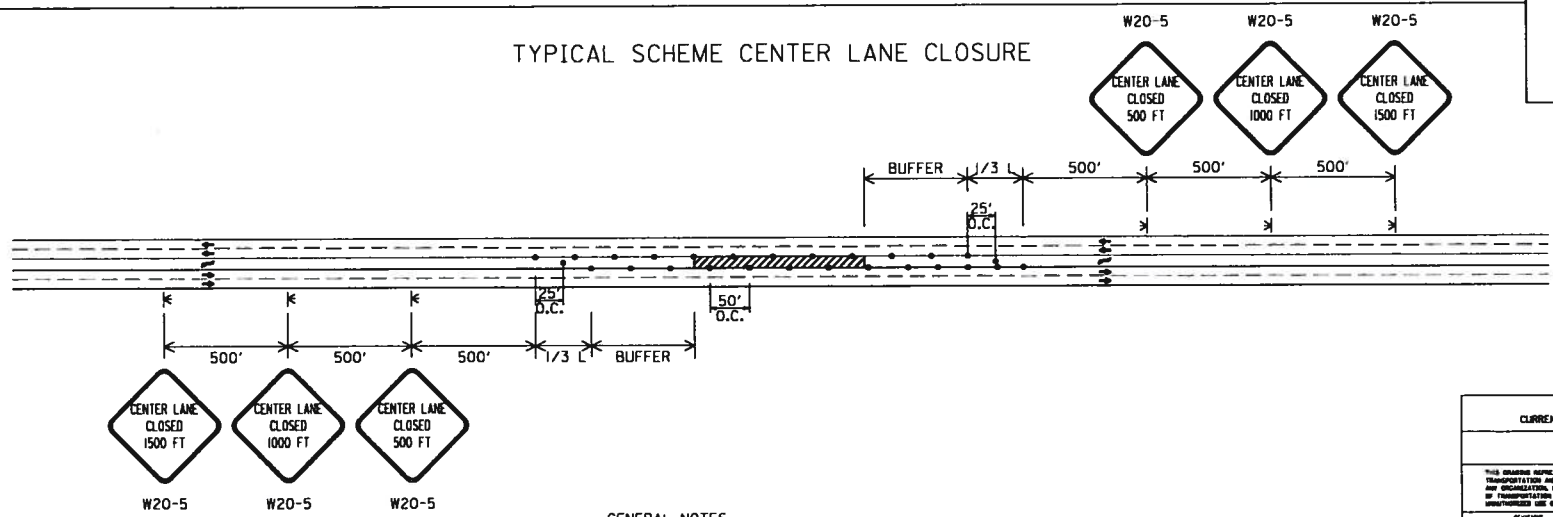
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPH-V-8525(600)	2012	51C



TYPICAL PLACEMENT FOR ADVANCE WARNING SIGNS

REQUIRED SIGN SIZES	
G20-2A	48" X 24"
W20-1	48" X 48"
W20-5	48" X 48"

TYPICAL SCHEME CENTER LANE CLOSURE



LEGEND

- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CHANNELIZING DRUM

GENERAL NOTES

1. ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.

SPECIFICATIONS
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

DETAILS FOR TRAFFIC CONTROL FOR 5-LANE HIGHWAYS

SPECIAL DRAWING NO. TEMPORARY TRAFFIC CONTROL

DATE 2003

Date 03-30-2007

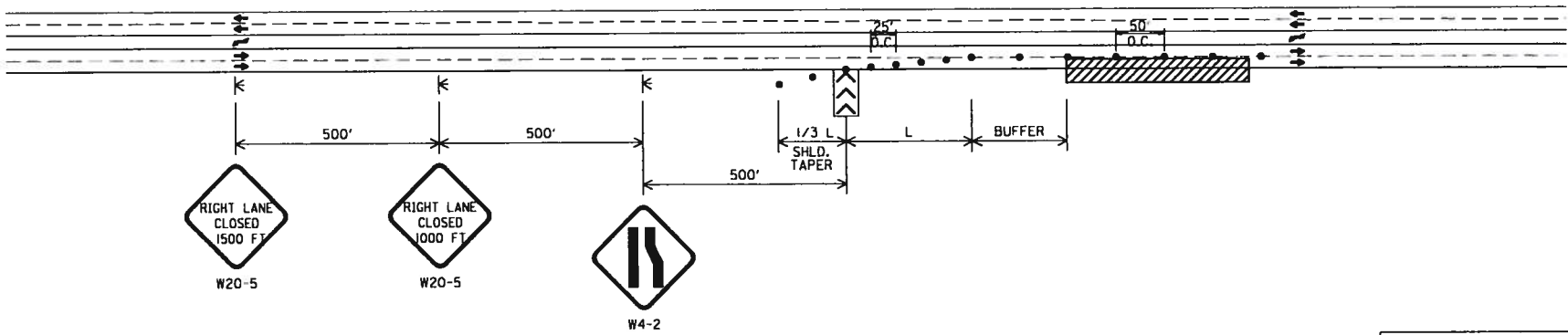
NOT TO SCALE

SHEET TITLE

ROUTE

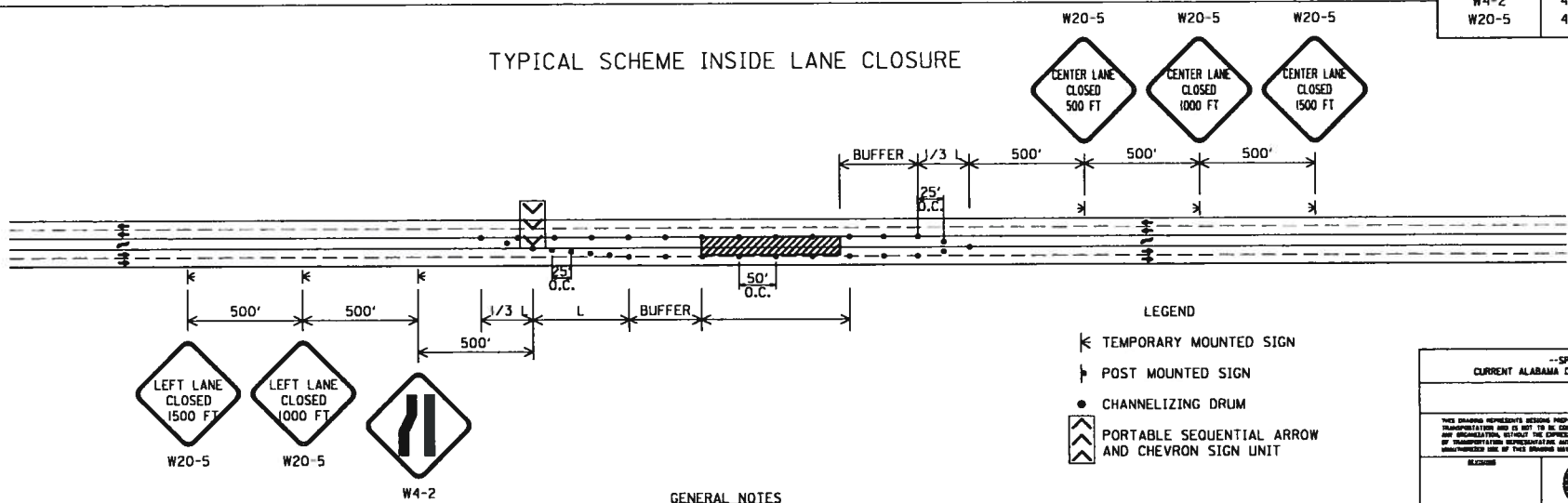
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525(600)	2012	51-D

TYPICAL SCHEME FOR OUTSIDE LANE CLOSURE



REQUIRED SIGN SIZES	
W4-2	48" X 48"
W20-5	48" X 48"

TYPICAL SCHEME INSIDE LANE CLOSURE



LEGEND

- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CHANNELIZING DRUM
- PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT

GENERAL NOTES

1. ALL SIGNS SHALL BE TEMPORARY MOUNTED AS SHOWN.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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LICENSE

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36110-2060

DESIGN BUREAU SPECIAL DRAWING

DETAILS FOR TRAFFIC CONTROL FOR 5-LANE HIGHWAYS

DRAWN BY: _____
DATE DRAWN: 01-01-2003

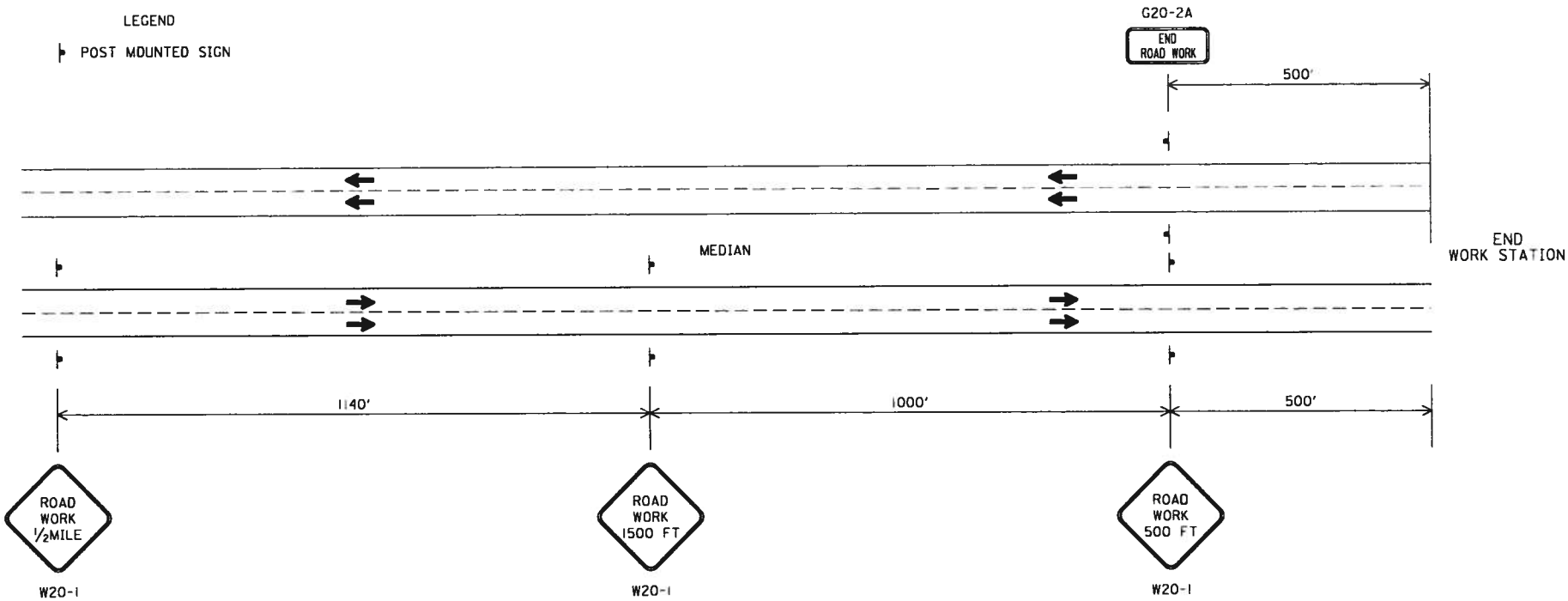
SPECIAL DRAWING NO.: TEMPORARY TRAFFIC CONTROL
SHEET NO.: 2004

NOT TO SCALE

SHEET TITLE	ROUTE

TEMPORARY TRAFFIC CONTROL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8526(800)	2012	51E



GENERAL NOTES

1. ALL SIGNS SHALL BE POST MOUNTED AS SHOWN.

REQUIRED SIGN SIZES	
G20-2A	48" X 24"
W20-1	48" X 48"

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

TYPICAL PLACEMENT OF ADVANCE WARNING SIGNS FOR MULTILANE DIVIDED HIGHWAYS

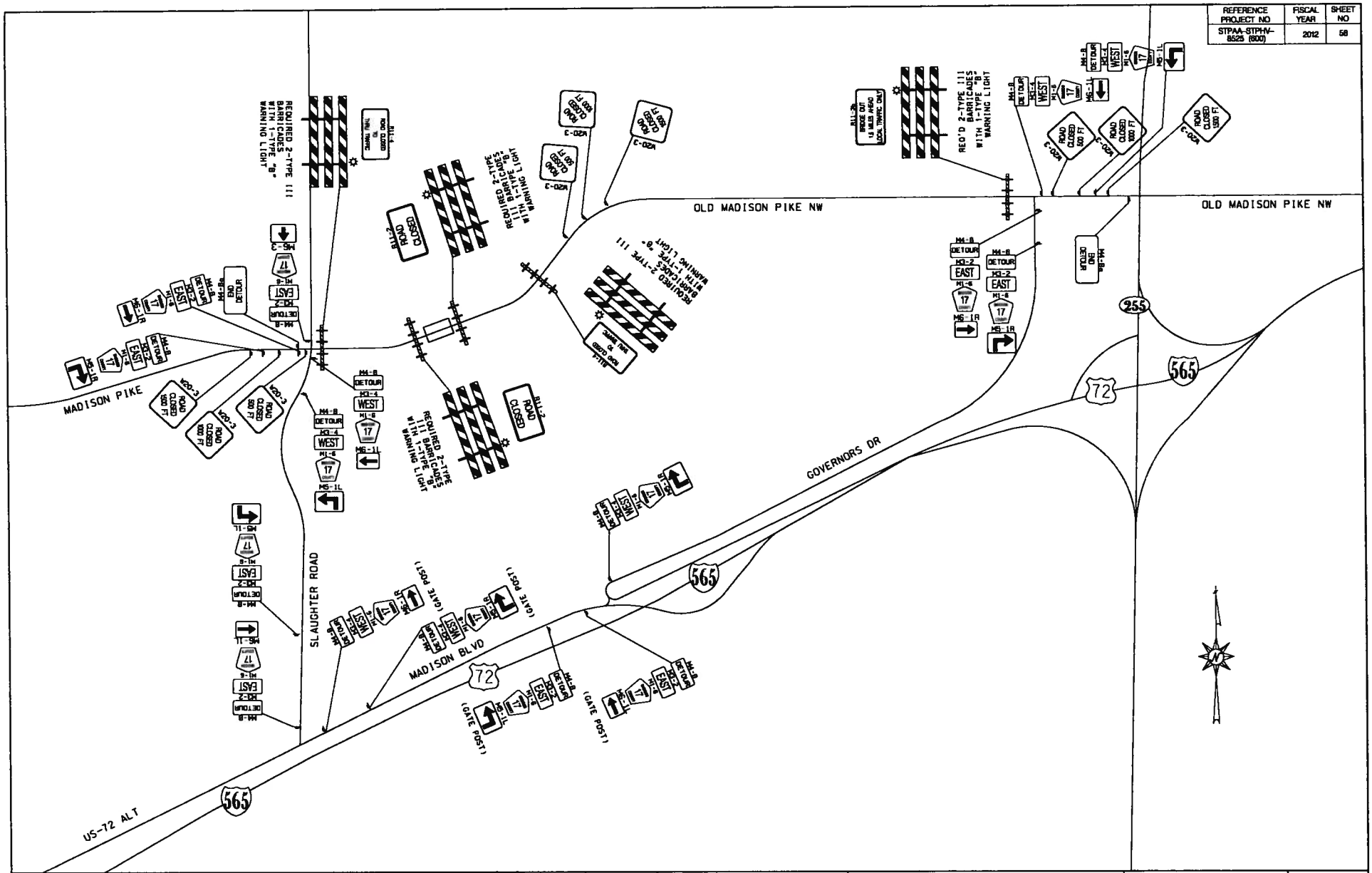
DRAWN BY: ____
DATE DRAWN: 03-03-2007

SPECIAL DRAWING NO.: TEMPORARY TRAFFIC CONTROL
BUILD NO.: 2007

NOT TO SCALE

SHEET TITLE	ROUTE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	58



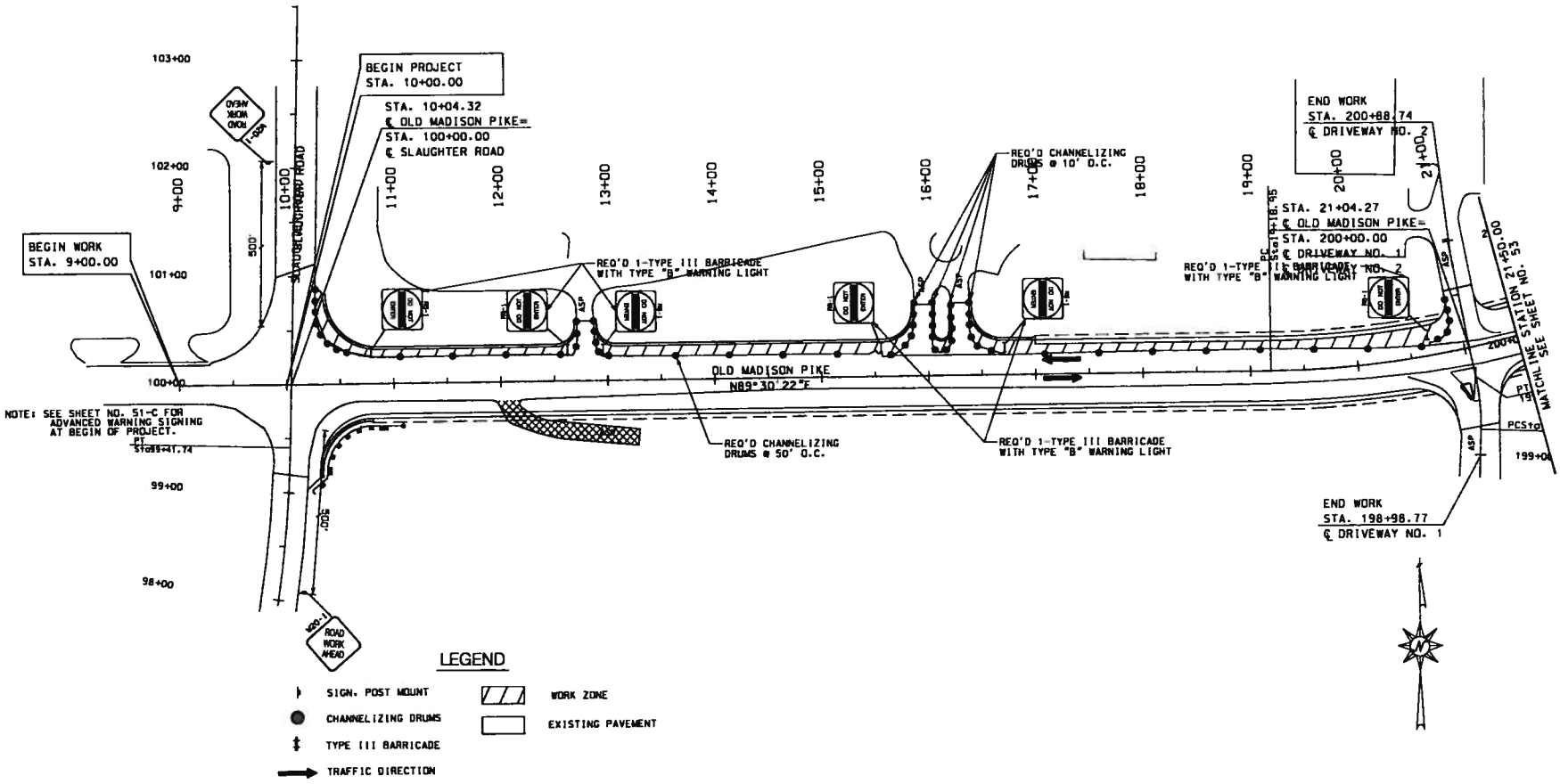
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - DETOUR
OLD MADISON PIKE

ROUTE
CR-17

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	52



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

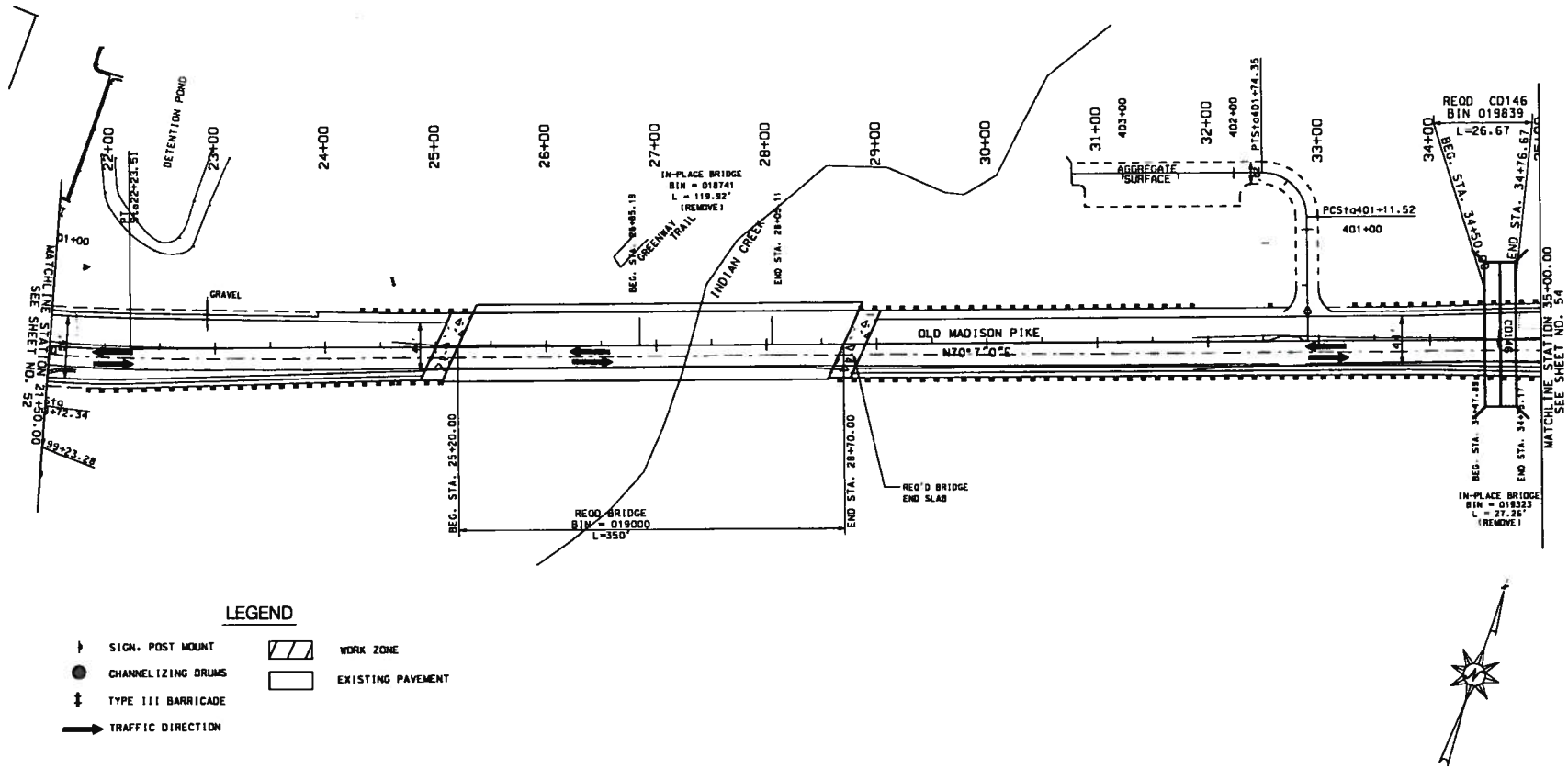
ALABAMA DEPARTMENT OF TRANSPORTATION

50 25 0 50
SCALE IN FEET

TRAFFIC CONTROL PLAN - PHASE 2
OLD MADISON PIKE
STA. 10+00.00 TO STA. 21+50.00

ROUTE
CR-17

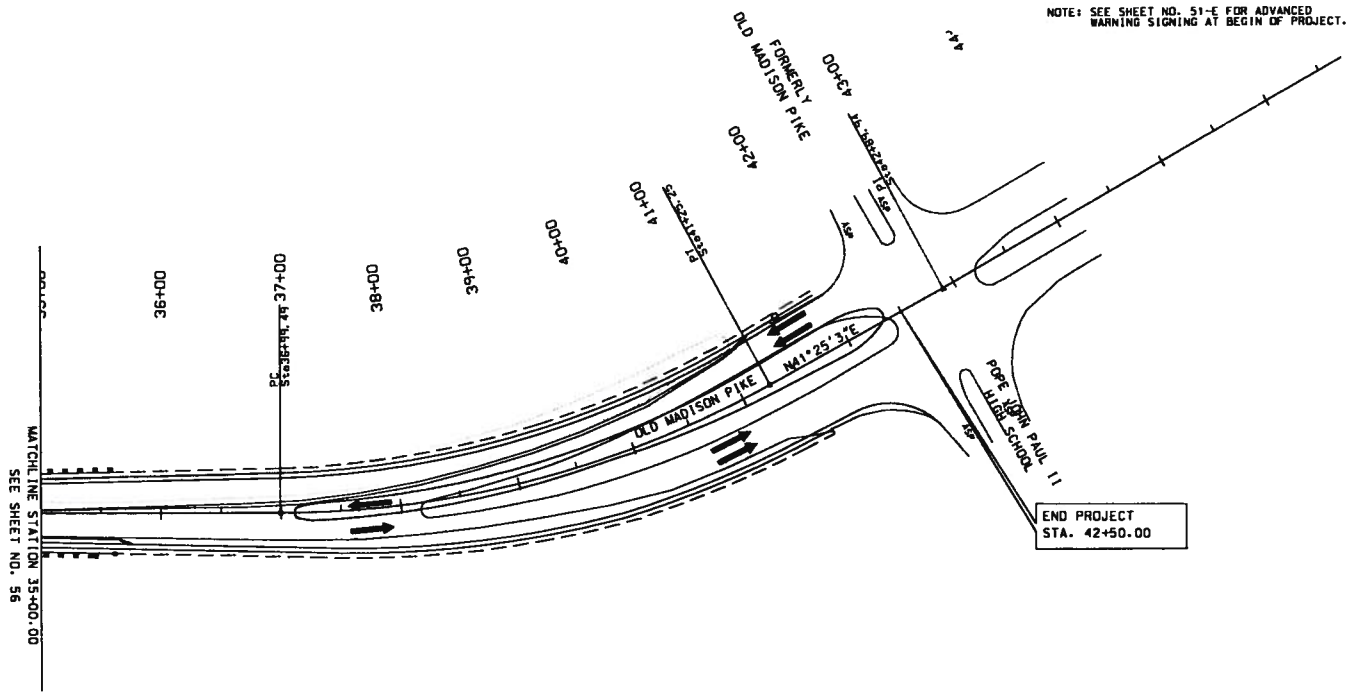
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	53



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	TRAFFIC CONTROL PLAN - PHASE 2 OLD MADISON PIKE STA. 21+50.00 TO STA. 35+00.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	54

NOTE: SEE SHEET NO. 51-E FOR ADVANCED WARNING SIGNING AT BEGIN OF PROJECT.

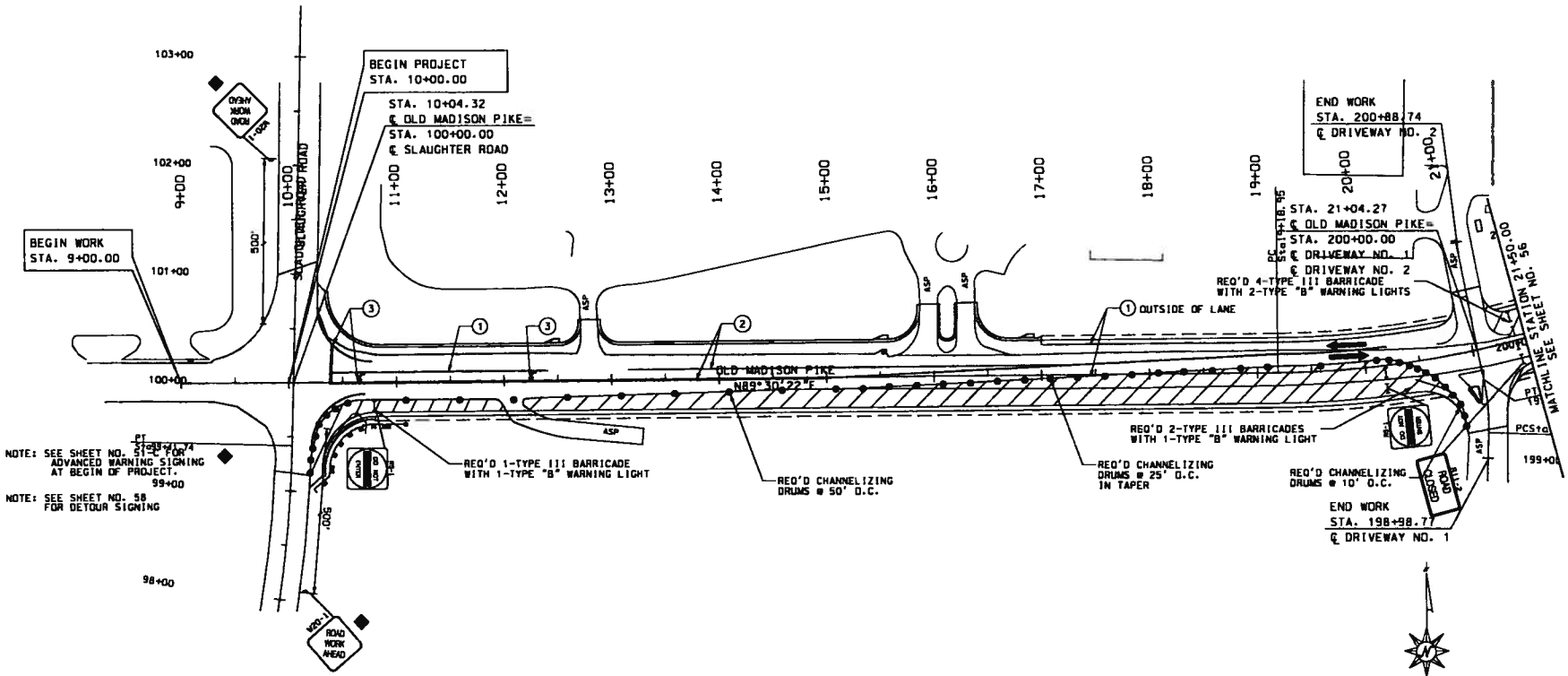


LEGEND

- SIGN. POST MOUNT
- CHANNELIZING DRUMS
- TYPE III BARRICADE
- TRAFFIC DIRECTION
- WORK ZONE
- EXISTING PAVEMENT

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	TRAFFIC CONTROL PLAN - PHASE 2 OLD MADISON PIKE STA. 35+00.00 TO STA. 42+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	56



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

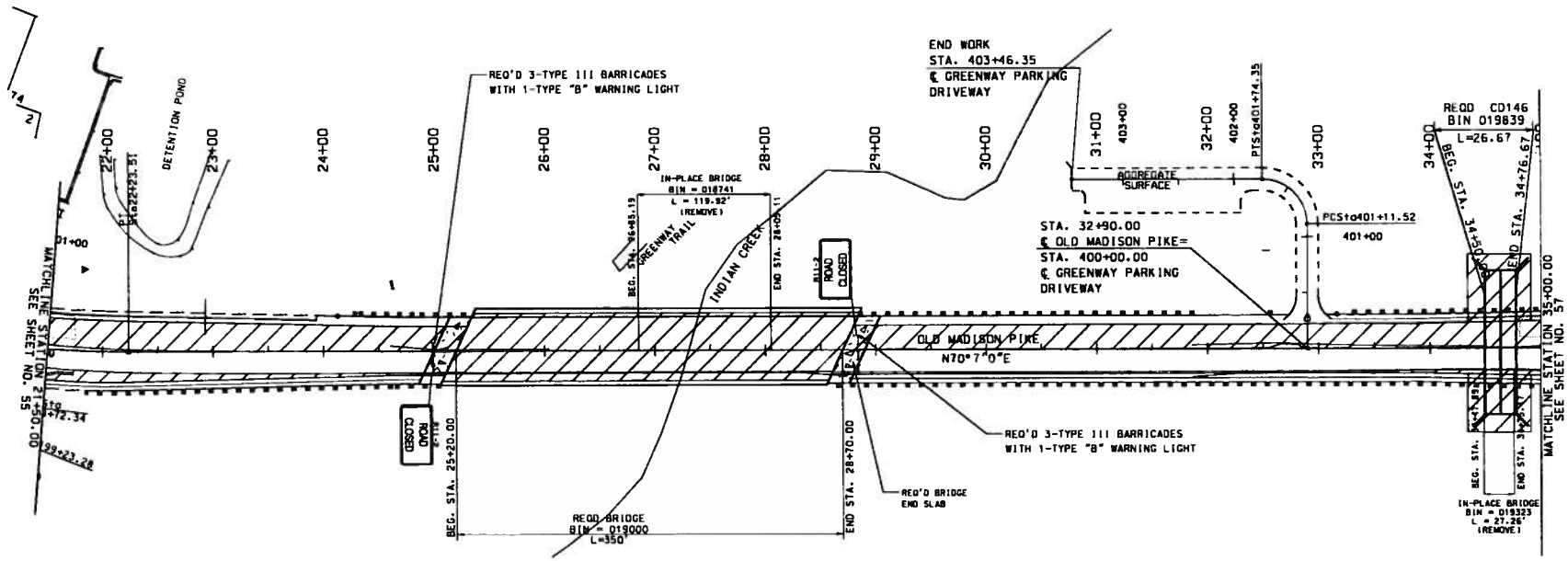
ALABAMA DEPARTMENT OF TRANSPORTATION

50 25 0 50
SCALE IN FEET

TRAFFIC CONTROL PLAN - PHASE 3
OLD MADISON PIKE
STA. 10+00.00 TO STA. 21+50.00

ROUTE CR-17

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	56



LEGEND

- SIGN. POST MOUNT
- CHANNELIZING DRUMS
- TYPE III BARRICADE
- TRAFFIC DIRECTION
- WORK ZONE
- EXISTING PAVEMENT

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

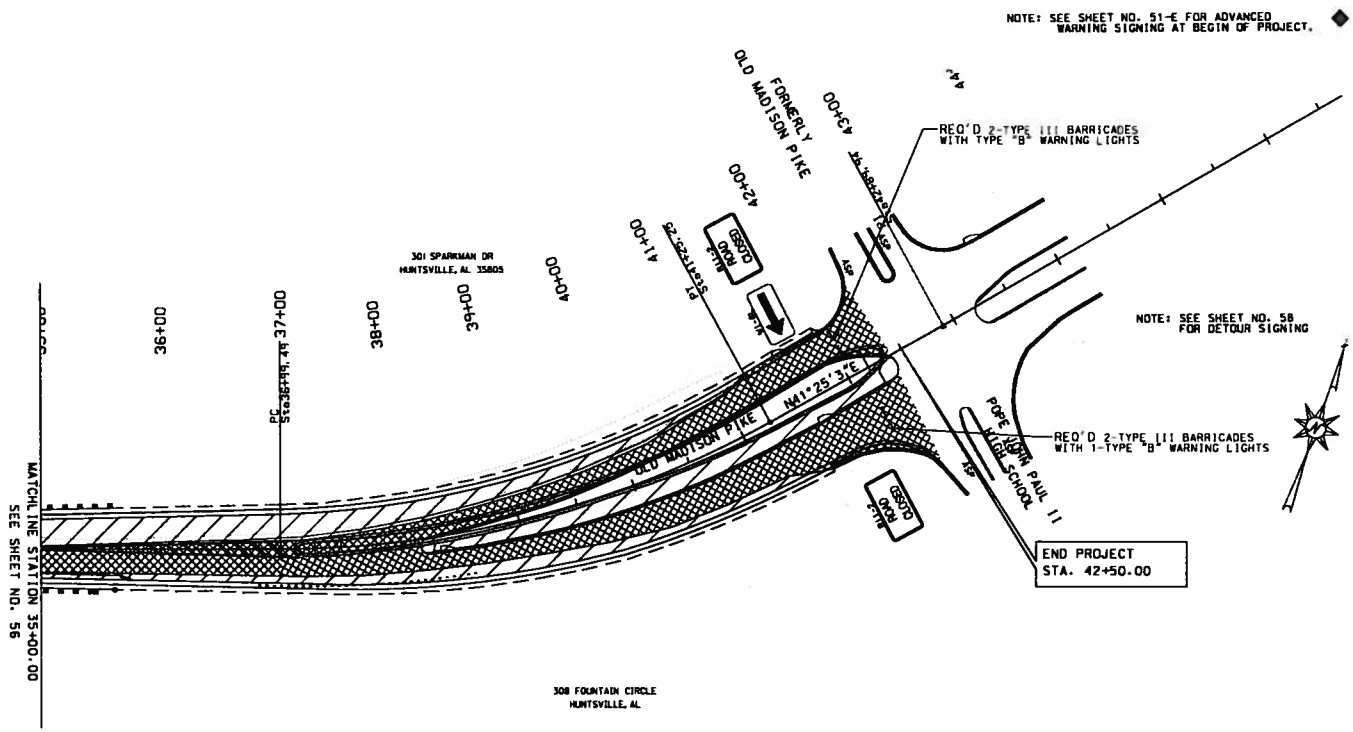
ALABAMA DEPARTMENT OF TRANSPORTATION

50 25 0 50
SCALE IN FEET

TRAFFIC CONTROL PLAN - PHASE 3
OLD MADISON PIKE
STA. 21+50.00 TO STA. 35+00.00

ROUTE CR-17

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8625 (600)	2012	57



LEGEND

- SIGN, POST MOUNT
- CHANNELIZING DRUMS
- TYPE III BARRICADE
- TRAFFIC DIRECTION
- WORK ZONE
- EXISTING PAVEMENT
- SIGN IN-PLACE FROM PREVIOUS PHASE

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	50 25 0 50 SCALE IN FEET	TRAFFIC CONTROL PLAN - PHASE 3 OLD MADISON PIKE STA. 35+00.00 TO STA. 42+50.00	ROUTE CR-17
DATE:	DATE:	DATE:					

TRAFFIC SIGNAL AND ITS LEGEND

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
STPAA-STPHV-8525 (800)	2012	60

ELECTRICAL BOXES

	EXISTING	REQUIRED
METALLIC PULL BOX ATTACHED TO BRIDGE	PBB	PBB
PULL BOX UNDERGROUND	PBU	PBU
FIBER OPTIC SPLICE BOX WITH TRAY - F1	F1	F1
FIBER OPTIC SPLICE BOX WITH TRAY - F2	F2	F2
TRAFFIC SIGNAL JUNCTION BOX		

CABLE/FIBER IN DUCT

	EXISTING	REQUIRED
FIBER OPTIC CABLE IN DUCT	FO	FO
FIBER OPTIC CABLE IN DUCT ATTACHED TO BRIDGE	FO	FO
AERIAL FIBER OPTIC CABLE	OFO	OFO
UNDERGROUND INTERCONNECT IN DUCT - COPPER	UI	UI
AERIAL INTERCONNECT - COPPER	OI	OI
CABLE IN CONDUIT	C	C
ENCASEMENT	N/A	*
OVERHEAD ELECTRIC	OE	OE

NOTE: (* INDICATES TYPE ENCASEMENT AND NUMBER OF LINES)

VEHICULAR DETECTORS

	EXISTING	REQUIRED
PRESENCE LOOP DETECTOR		
QUADRUPOLE LOOP DETECTOR		
POINT LOOP DETECTOR		
SAMPLING VEHICULAR DETECTOR	S	S
VIDEO VEHICULAR DETECTION	VDC	VDC
VIDEO DETECTION ZONE	N/A	

CABINETS

	EXISTING	REQUIRED
CABINET		
DMS CABINET	DMS	DMS
TRAFFIC CONTROLLER CABINET		

CAMERAS

	EXISTING	REQUIRED
PUBLIC ACCESS CAMERA	PAC	PAC
DUAL PUBLIC ACCESS CAMERA	PAC PAC	PAC PAC
STATIONARY CAMERA	FIXED	FIXED
PAN, TILT, AND ZOOM CAMERA	PTZ	PTZ

MISCELLANEOUS TRAFFIC SIGNAL EQUIPMENT

	EXISTING	REQUIRED
TRAFFIC SIGNAL HEAD		
TRAFFIC SIGNAL HEAD WITH BACKPLATE		
HALO STROBE SIGNAL HEAD	HS	HS
SPAN MOUNTED WARNING SIGNAL		
PEDESTRIAN SIGNAL HEAD		
8 FOOT PEDESTAL POLE AND PEDESTRIAN SIGNAL HEAD		
PUSH BUTTON ASSEMBLY	PB	PB
PEDESTAL MOUNTED FLASHING WARNING SIGNAL WITH SIGN		*
4 FOOT PEDESTAL WITH PUSH BUTTON		
PEDESTAL MOUNTED ILLUMINATED SCHOOL ZONE SIGN	SCH	SCH
SPAN/MASTARM MOUNTED SIGN		

NOTE: (* INDICATES TYPE SIGN)
NOTE: (Ⓝ INDICATES SIGNAL HEAD NUMBER)

MISCELLANEOUS ITS EQUIPMENT

	EXISTING	REQUIRED
TRAFFIC CONTROL CENTER		
OMNI DIRECTIONAL ANTENNA		
DIRECTIONAL ANTENNA		
HIGHWAY ADVISORY RADIO		
HUB BUILDING		
VARIABLE MESSAGE SIGN	VMS	VMS
DYNAMIC MESSAGE SIGN	DMS	DMS
CHANGEABLE MESSAGE SIGN	CMS	CMS
RADAR DETECTION UNIT		
EMERGENCY VEHICLE PREEMPTION SENSOR	EVP	EVP
BLANKOUT MESSAGE SIGN		
FIBER OPTIC CABLE MARKER	FOCM	FOCM

POLES

	EXISTING	REQUIRED
METAL TRAFFIC SIGNAL POLE		#
CONCRETE TRAFFIC SIGNAL POLE		#
METAL MASTARM TRAFFIC SIGNAL POLE		#
WOOD TRAFFIC SIGNAL POLE		#
CLASS 3 WOOD SERVICE POLE WITH DISCONNECT	D	D
WOOD POLE (UTILTY OWNED)	U	U
CAMERA POLE		
POWER SOURCE POLE (CLASS III, 35 FOOT)		
SIDEWALK DOWN GUY		
DOWN GUY		
LUMINAIRE		

NOTE: (* INDICATES POLE NUMBER)

ABBREVIATIONS

AMERICAN WIRE GUAGE	AWG
CHANGEABLE MESSAGE SIGN	CMS
CLOSED CIRCUIT TELEVISION	CCTV
CONDUIT	C
CURB AND GUTTER	C&G
DYNAMIC MESSAGE SIGN	DMS
EASTBOUND ROADWAY	EBR
EMERGENCY VEHICLE PREEMPTION	EVP
END ANCHOR	E/A
FLASHING BEACON	FB
GALVANIZED RIGID CONDUIT	GRC
GUARDRAIL	GR
HIGH DENSITY POLYETHYLENE	HDPE
HIGHWAY ADVISORY RADIO	HAR
INDIVIDUAL LOWERING DEVICE	ILD
INTELLIGENT TRANSPORTATION SYSTEMS	ITS
JUNCTION BOX	JB
LEFT	LT
LIGHT EMITTING DIODE	LED
LIGHT POLE	LP
LINEAR FEET	LIN FT
LUMINAIRE	LUM
MILEPOST	MP
NORTHBOUND ROADWAY	NBR
NON-METALLIC CONDUIT	NMC
PAN TILT ZOOM	PTZ
POUND PER SQUARE INCH	PSI
PRIMARY FIBER DISTRIBUTION UNIT	FDU
PROPERTY LINE	PL
PUBLIC ACCESS CAMERA	PAC
PULL BOX	PB
RADIUS	R
RAILROAD	RR
REMOVE	REM
RETAIN	RET
REQUIRED	REQD
RIGHT	RT
RIGHT OF WAY	ROW
ROADWAY	RDWY
SECONDARY FIBER DISTRIBUTION BOX	SFDU
SCHOOL	SCH
SIGNAL	SIG
SOUTHBOUND ROADWAY	SBR
STANDARD DRAWING	STD-DWG
STATION	STA
TRAFFIC SIGNAL OPERATING PLAN	TSOP
TURNOUT	TO
VARIABLE MESSAGE SIGN	VMS
VEHICLE DETECTION SYSTEM	VDS
WESTBOUND ROADWAY	WBR

DATE CREATED: JANUARY 30, 2005
DATE REVISED: FEBRUARY 10, 2005
DATE REVISED: APRIL 7, 2008

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	61

CONDUIT AND CONDUCTOR SCHEDULE			
CONDUIT	CONDUCTOR	FROM	TO
1"	1 #8 AWG - 3C	DISCONNECT SWITCH	POLE 1 (LUMINAIRES)
1"	1 #6 AWG - 3C	DISCONNECT SWITCH	CONTROLLER
2 - 2"		CONTROLLER	POLE 1
2"		J.B. A	J.B. B
2"		J.B. B	POLE 1
2"		J.B. C	J.B. D
2"		J.B. D	POLE 2
2"		J.B. E	POLE 3
2"		J.B. F	J.B. G
2"		J.B. G	POLE 4
	1 #12 AWG	J.B. (EACH LOOP)	LOOP BACK TO J.B.
	2 #12-2C SHIELDED IMSA 50-2	J.B. (EACH LOOP)	CONTROLLER
	1 #14 7C IMSA 20-1	CONTROLLER	SIGNAL HEAD 1 AND 3
	1 #14 7C IMSA 20-1	CONTROLLER	SIGNAL HEAD 2 AND 4
	1 #14 7C IMSA 20-1	CONTROLLER	SIGNAL HEAD 5 AND 7
	1 #14 7C IMSA 20-1	CONTROLLER	SIGNAL HEAD 6 AND 8

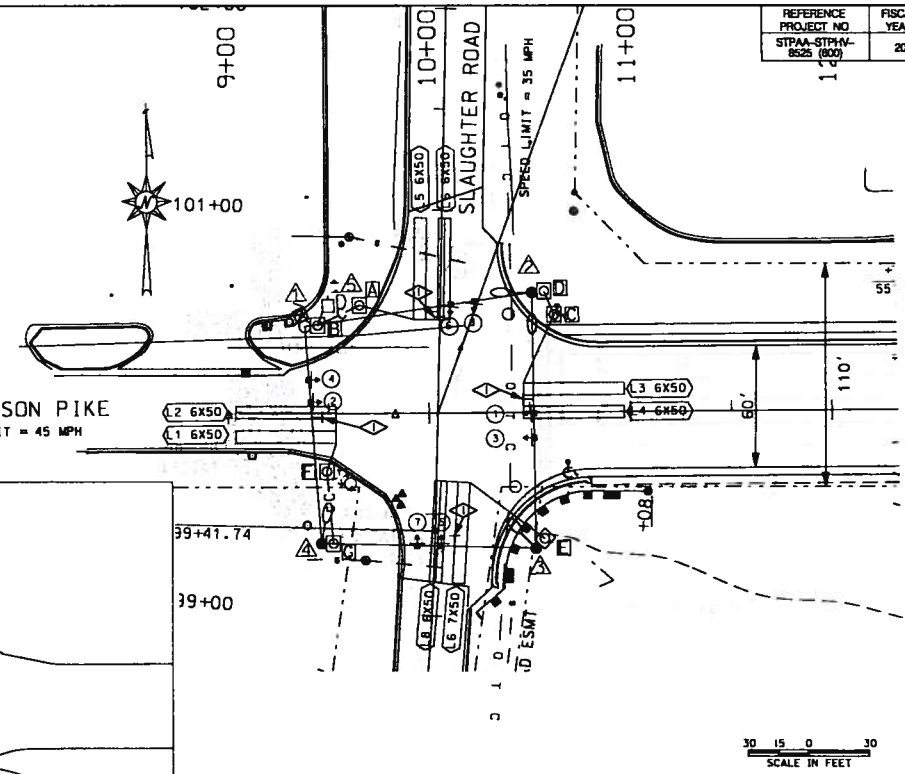
LOOP DETECTOR CHART						
LOOP	PHASE	AMP.	SIZE	MODE	TURNS	COMMENTS
L1	1	1	6X50	PRESENCE	2	
L2	1	2	6X50	PRESENCE	2-4-2	QUAD
L3	1	3	6X50	PRESENCE	2	
L4	1	4	6X50	PRESENCE	2-4-2	QUAD
L5	2	5	6X50	PRESENCE	2	
L6	2	6	6X50	PRESENCE	2-4-2	QUAD
L7	2	7	6X50	PRESENCE	2	
L8	2	8	6X50	PRESENCE	2-4-2	QUAD

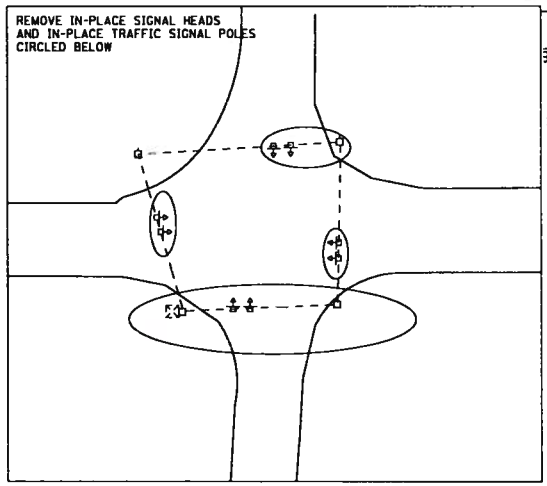
SUPPORTING STRUCTURES			
POLE NUMBER	POLE LENGTH APPROXIMATE	POLE LOCATION	LUMINAIRE ARM EXTENSIONS
1		IN-PLACE POLE (RETAIN)	
2	37 FT	O.M.P. STA. 10+52, 59' LT.	2 - 12 FT
3	37 FT	O.M.P. STA. 10+52, 67' RT.	12 FT
4	37 FT	O.M.P. STA. 9+46.15, 64' RT.	12 FT

SUPPORTING STRUCTURES FOR WOOD POLES			
POLE NUMBER	POLE LENGTH APPROXIMATE	POLE LOCATION	LUMINAIRE ARM EXTENSIONS
5	35 FT	O.M.P. STA. 9+50, 53' LT.	

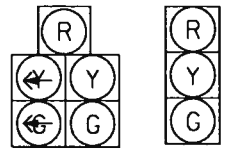
ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE
DESCRIPTION
POWER SOURCE (240 VOLTS)
#14 SIGNAL CABLE (IMSA 20-1)
3/8" MESSENGER CABLE
SIGNAL BACKPLATES WITH ATTACHMENTS
MISCELLANEOUS HARDWARE

REQUIRED ROADWAY SIGNS (710A) (SPAN WIRE MOUNTED)				
IDENTIFICATION NO.	ROADWAY	ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STEEL FLAT SIGN PANELS 14 GAUGE CLASS 4 (TYPE III OR TYPE IV BACKGROUND) (710A-115) R10-12		REQUIRED SPECIAL & STANDARD HIGHWAY DRAWINGS
		EACH	SQ FT	
1	OLD MADISON PIKE	1	7.50	SHS-6
1	SLAUGHTER ROAD	1	7.50	SHS-6
1	OLD MADISON PIKE	1	7.50	SHS-6
1	SLAUGHTER ROAD	1	7.50	SHS-6
	TOTAL	30		





REQUIRED TRAFFIC SIGNAL HEADS



* 1, 2, 5, 6 * 3, 4, 7, 8

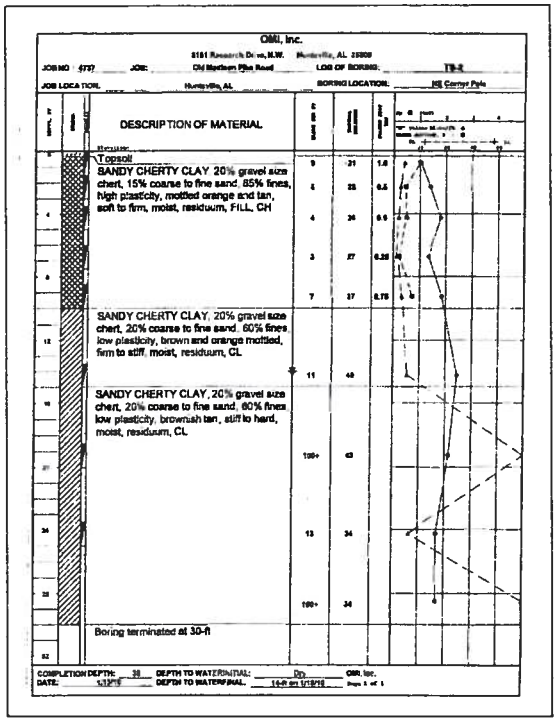
NOTES

1. SIGNAL PHASING FOR THIS LOCATION SHALL BE IMPLEMENTED ACCORDING TO SIGNAL OPERATING PLAN NO. 24 (DRAWING NO. TSOP NO. 1079) FROM THE STATE OF ALABAMA SPECIAL & STANDARD HIGHWAY DRAWINGS.
2. PAVEMENT MARKINGS SHOWN FOR ILLUSTRATIVE PURPOSES.

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL LAYOUT OLD MADISON PIKE AT SLAUGHTER ROAD	ROUTE CR-17
DATE:	DATE:	DATE:				

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	62

TRAFFIC SIGNAL POLE BORINGS



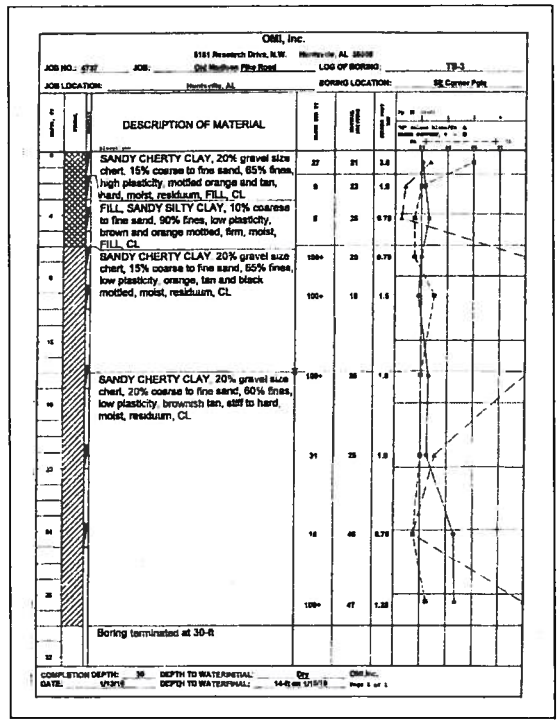
Olmi, Inc.

JOB NO.: 4737 JOB: Old Madison Pike Road LOG OF BORING: TB-1

JOB LOCATION: Huntsville, AL BORING LOCATION: NE Corner Pole

DESCRIPTION OF MATERIAL			
Topsoil			
SANDY CHERTY CLAY, 20% gravel size chert, 15% coarse to fine sand, 85% fines, high plasticity, mottled orange and tan, soft to firm, moist, residuum, FILL, CH	9	21	1.0
	5	23	0.5
	4	30	0.5
	3	27	0.25
	7	37	0.75
SANDY CHERTY CLAY, 20% gravel size chert, 20% coarse to fine sand, 60% fines low plasticity, brown and orange mottled, firm to stiff, moist, residuum, CL	11	40	
SANDY CHERTY CLAY, 20% gravel size chert, 20% coarse to fine sand, 60% fines low plasticity, brownish tan, stiff to hard, moist, residuum, CL	100+	43	
	13	34	
	100+	34	
Boring terminated at 30-ft			

COMPLETION DEPTH: 30 DEPTH TO WATER INITIAL: Dry Olmi, Inc.
DATE: 1/13/10 DEPTH TO WATER FINAL: 14-ft on 1/18/10 Page 1 of 1



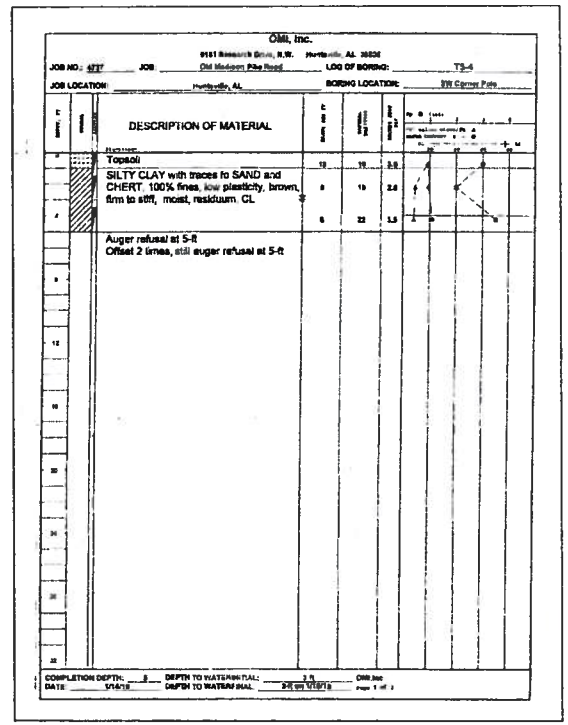
Olmi, Inc.

JOB NO.: 4737 JOB: Old Madison Pike Road LOG OF BORING: TB-3

JOB LOCATION: Huntsville, AL BORING LOCATION: SE Corner Pole

DESCRIPTION OF MATERIAL			
SANDY CHERTY CLAY, 20% gravel size chert, 15% coarse to fine sand, 85% fines, high plasticity, mottled orange and tan, hard, moist, residuum, FILL, CL	27	31	3.5
	9	23	1.5
FILL, SANDY SILTY CLAY, 10% coarse to fine sand, 90% fines, low plasticity, brown and orange mottled, firm, moist, FILL, CL	5	25	0.75
SANDY CHERTY CLAY, 20% gravel size chert, 15% coarse to fine sand, 85% fines, low plasticity, orange, tan and black mottled, moist, residuum, CL	100+	20	0.75
	100+	18	1.5
SANDY CHERTY CLAY, 20% gravel size chert, 20% coarse to fine sand, 60% fines, low plasticity, brownish tan, stiff to hard, moist, residuum, CL	100+	35	1.5
	31	25	1.0
	16	46	0.75
	100+	47	1.25
Boring terminated at 30-ft			

COMPLETION DEPTH: 30 DEPTH TO WATER INITIAL: Dry Olmi, Inc.
DATE: 1/13/10 DEPTH TO WATER FINAL: 14-ft on 1/18/10 Page 1 of 1



Olmi, Inc.

JOB NO.: 4737 JOB: Old Madison Pike Road LOG OF BORING: TB-4

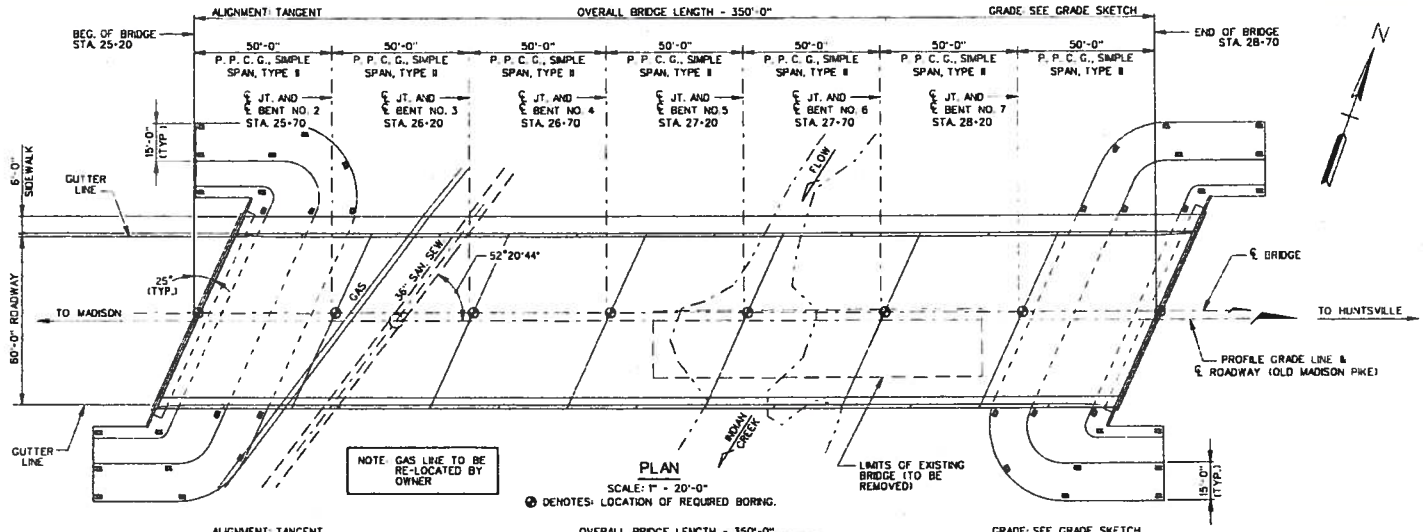
JOB LOCATION: Huntsville, AL BORING LOCATION: NW Corner Pole

DESCRIPTION OF MATERIAL			
Topsoil	12	19	3.5
SILTY CLAY with traces to SAND and CHERT, 100% fines, low plasticity, brown, firm to stiff, moist, residuum, CL	8	19	2.5
	6	22	1.5
Auger refusal at 5-ft Offset 2 times, still auger refusal at 5-ft			

COMPLETION DEPTH: 5 DEPTH TO WATER INITIAL: 3 ft Olmi, Inc.
DATE: 1/14/10 DEPTH TO WATER FINAL: 9-ft on 1/18/10 Page 1 of 1

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL POLE BORINGS OLD MADISON PIKE AT SLAUGHTER ROAD	ROUTE CR-17
DATE:	DATE:	DATE:				

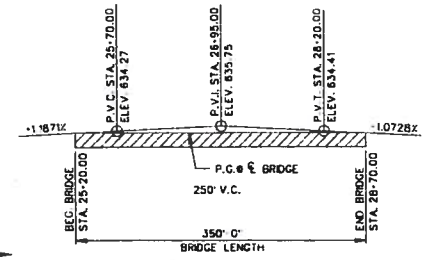
REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	6-S



PLAN

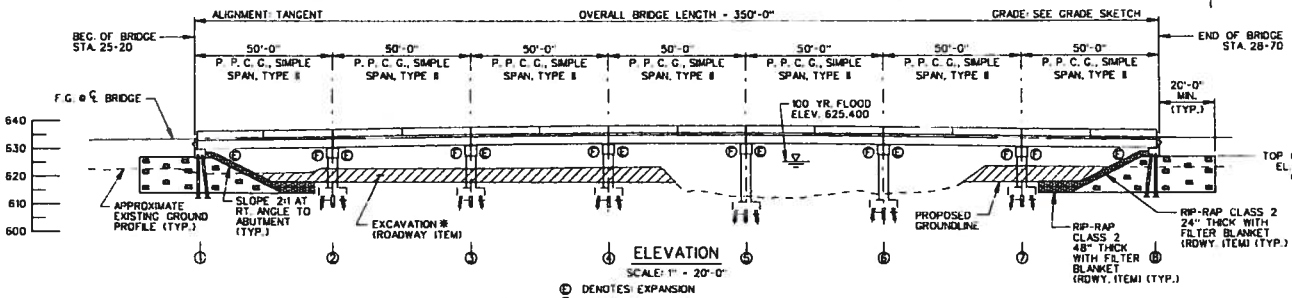
SCALE: 1" = 20'-0"

⊕ DENOTES: LOCATION OF REQUIRED BORING.



PROFILE GRADE SKETCH

NOT TO SCALE



ELEVATION

SCALE: 1" = 20'-0"

Ⓔ DENOTES: EXPANSION

Ⓕ DENOTES: FIXED

* EXCAVATE OLD ROADWAY FILL TO NATURAL GROUNDLINE AT EL. 618.000 (TYP.)

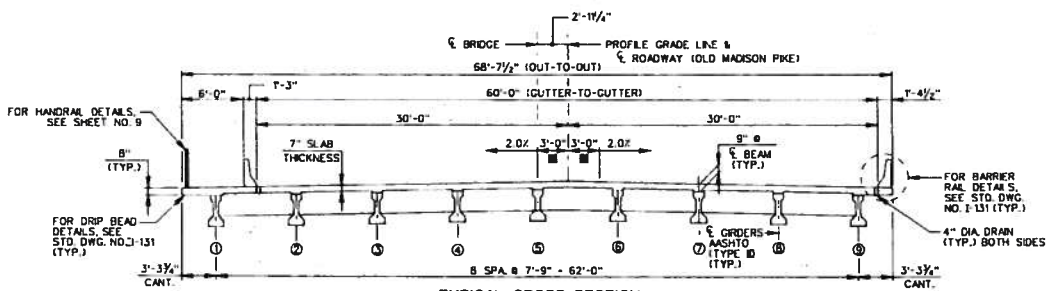
HYDRAULIC DATA

DRAINAGE AREA - 44.9 SQ. MILES

DISCHARGE (cfs)	WATER SURFACE ELEVATION
Q10 - 6,560	623.0
Q25 - 9,020	623.9
Q50 - 11,100	624.7
Q100 - 13,400	625.4
Q200 - 16,000	626.3
Q500 - 19,700	627.4

OPENING PROVIDED - 4,638 SQ. FT
V25 - 4.8 ft/sec
V100 - 5.7 ft/sec

THE OVERTOPPING FLOOD EXCEEDS THE 100 YR. FLOOD.
25 YR. UPSTREAM STAGE - 625.1 ft.
100 YR. UPSTREAM STAGE - 627.0 ft.



TYPICAL CROSS-SECTION

SCALE: ¼" = 1'-0"

■ FOR 6'-0" PARABOLIC CROWN ORDINATES, SEE STD. DWG. NO. I-131

NOTE:

REFERENCE SPEC. DWG. NO. RR-610 FOR RIP-RAP DETAILS NOT SHOWN.

I CERTIFY THAT CHECKS OF (1) DESIGN CALCULATIONS AND (2) DETAILS AND DRAFTING OF PLANS HAVE BEEN MADE BY COMPETENT ENGINEERS OF THIS ORGANIZATION.

APPROVED _____ (DESIGN ENGINEER'S SIGNATURE) DATE _____

REGISTRATION NO. _____

APPROVED _____ (REVIEWING ENGINEER'S SIGNATURE) DATE _____

REGISTRATION NO. _____

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BARGE, WAGGONER, SUMNER & CANNON, INC.

DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 1 OF 32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)

BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK

STA. 25+20

MADISON COUNTY

GENERAL PLAN AND ELEVATION

BIN: 019000

ESTIMATED QUANTITIES	DESIGNED BY: CLK	DRAWN BY: MTJ	
COMPUTED BY: CEE	CHECKED BY: CEE	DATE DRAWN: 5/17/12	
VERIFIED BY: N/A	DATE CHECKED: 8/23/12	SCALE: SHOWN	

Printed: SYSTEM DATE&TIME*
$$$DESIGN FILE SPECIFICATIONS

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	6

ESTIMATED QUANTITIES

QUANTITY	UNIT	ITEM NO.	DESCRIPTION
1	LUMP SUM	206A-000	REMOVAL OF OLD BRIDGE, STA. 13+77
143,749	POUND	502A-000	STEEL REINFORCEMENT
1	LUMP SUM	502B-000	STEEL REINFORCEMENT FOR BRIDGE SUPERSTRUCTURE STA. 25+20, APPROX. 145,925 LBS.
⊖ 1	EACH	505A-032	STEEL TEST PILES (HP 12 X 53) (MAXIMUM BID LIMITED TO $2000 PER EACH TEST PILE)
⊖ 1	EACH	505B-102	STATIC LOADING TESTS (HP 12 X 53) (MAXIMUM BID LIMITED TO $2000 PER EACH TEST PILE)
202	EACH	505C-003	PILE POINTS (TYPE A, 12")
7,773	LINEAR FEET	505H-000	PILOT HOLES
8,056	LINEAR FEET	505M-002	STEEL PILING FURNISHED AND DRIVEN (HP 12 X 53)
24,587	POUND	508A-000	STRUCTURAL STEEL
1,359	CUBIC YARD	510A-000	BRIDGE SUBSTRUCTURE CONCRETE, CLASS A
1	LUMP SUM	510C-051	BRIDGE CONCRETE SUPERSTRUCTURE STA. 25+20, APPROX. 667 CUBIC YARDS
2,172	SQUARE YARD	510E-000	GROOVING CONCRETE BRIDGE DECKS
126	EACH	511A-051	ELASTOMERIC BEARINGS, TYPE 2 (MARK B2)
3,085	LINEAR FEET	513B-004	PRETENSIONED - PRESTRESSED CONCRETE GIRDERS, TYPE II (SPECIALTY ITEM)
370	LINEAR FEET	517G-000	ORNAMENTAL METAL RAILING

⊖ DENOTES: TEST PILE AND STATIC LOADING TEST TO BE USED AT ONE BENT AS DIRECTED BY THE ENGINEER.

REQUIRED

7 - 50'-0" PRESTRESSED-PRETENSIONED CONCRETE GIRDER SIMPLE SPANS (TYPE II) — BR. SHT. NO. 3, 4, 5, 6, 7, AND 8

2 - REINFORCED CONCRETE ABUTMENT WITH STEEL PILES (HP 12 X 53) — BR. SHT. NO. 10, 13 AND 14

6 - REINFORCED CONCRETE INTERMEDIATE BENTS WITH STEEL PILES (HP 12 X 53) — BR. SHT. NO. 11 AND 12

TEST BORING RECORD — BR. SHT. NO. 15 THRU 31

BRIDGE GENERAL NOTES — STD. DWG. NO. BGN-1

STANDARD BRIDGE DETAILS — STD. DWG. NO. I-131 (6 SHEETS)

ORNAMENTAL METAL RAILING — BR. SHT. NO. 9

BRIDGE GENERAL NOTES

SEE STANDARD DRAWING NO. BGN-1

ROADWAY : 60 FEET WITH BARRIER RAILS

(1)

(2) HS20

(3)

(5) ABUT. 25 TONS, BENT 60 TONS

(10)

(12) 15'-0", 15'-0"

(15)

(18)

(21)

(23)

(25)

(27)

(28)

(29)

INDEX TO SHEETS

BRIDGE SHEET NO.	DESCRIPTION
1	GENERAL PLAN AND ELEVATION
2	ESTIMATED QUANTITIES, REQUIRED, AND NOTES
3	FOUNDATION LAYOUT
4	SPAN NOS. 1 AND 7 DETAILS
5	SPAN NOS. 2, 3, 4, 5 AND 6 DETAILS
6	SPAN NOS. 1 THRU 7 DETAILS
7	DIAPHRAGM AND BEARING DETAILS
8	GIRDER DETAILS (SPAN NOS. 1 THRU 7)
9	SCREED ELEVATIONS
10	HANDRAIL DETAILS
11	ABUTMENT NO. 1
12	BENT NOS. 2 THRU 7
13	BENT DETAILS
14	ABUTMENT NO. 8
15	ABUTMENT DETAILS
16	TEST BORING RECORD
17	TEST BORING RECORD
18	TEST BORING RECORD
19	TEST BORING RECORD
20	TEST BORING RECORD
21	TEST BORING RECORD
22	TEST BORING RECORD
23	TEST BORING RECORD
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26	TEST BORING RECORD
27	TEST BORING RECORD
28	TEST BORING RECORD
29	TEST BORING RECORD
30	TEST BORING RECORD
31	TEST BORING RECORD
32	TEST BORING RECORD

THE SEALED DRAWINGS, PLANS, SPECIFICATIONS AND REPORTS ARE PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE OR ANY ORGANIZATION WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

BARGE, WAGGONER, SUMNER & CANNON, INC.

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 2 OF 32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)

BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK

STA. 25.20

MADISON COUNTY

ESTIMATED QUANTITIES, REQUIRED, AND NOTES

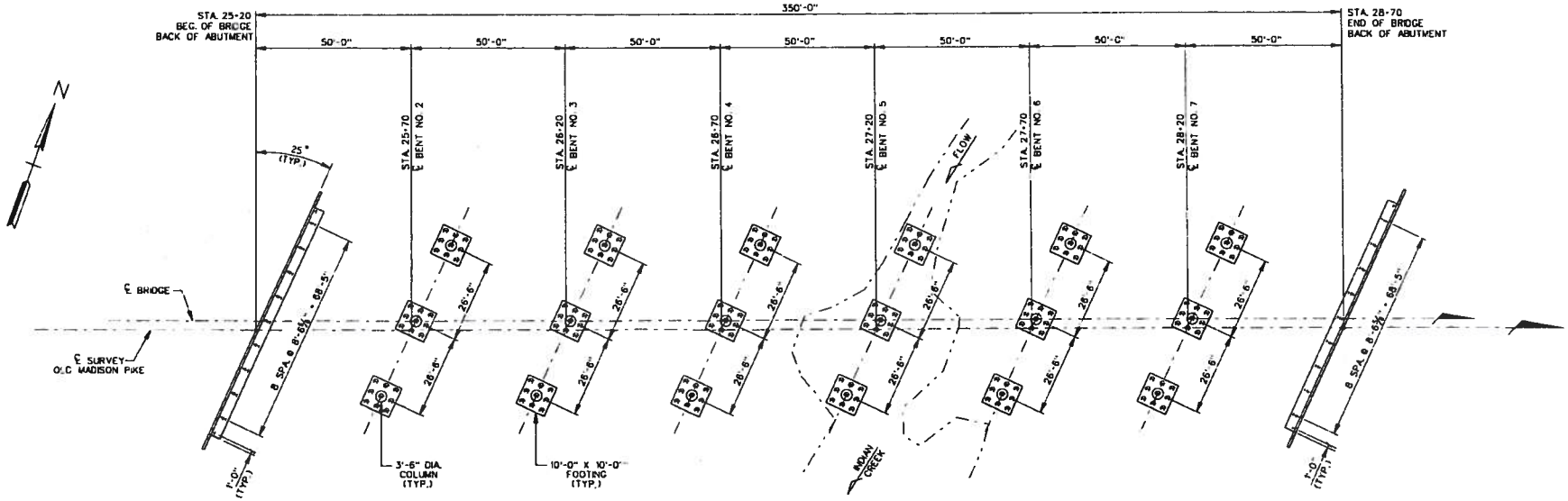
ESTIMATED QUANTITIES	DESIGNED BY: CEE	DRAWN BY: WTJ	
COMPUTED BY: CEE	CHECKED BY: CLE	DATE DRAWN: 3/30/12	
VERIFIED BY: N/A	DATE CHECKED: 8/12/12	SCALE: SHOWN	

BIN: 019000

Plotted: SYSTEM DATE&TIME*

$$$DESIGN FILE SPECIFICATIONS$$

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525(600)	2012	G-1



FOUNDATION LAYOUT

SCALE: 1"=20'-0"

NOTE: FOR PILE TIP ELEVATIONS AND PILE LAYOUT, SEE BRIDGE SHEET NOS. 11, 12, 13 & 14.

BARGE, WAGONER, SUMNER & CANNON, INC.

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DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 3 OF32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)

BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK

STA. 25.20

MADISON COUNTY

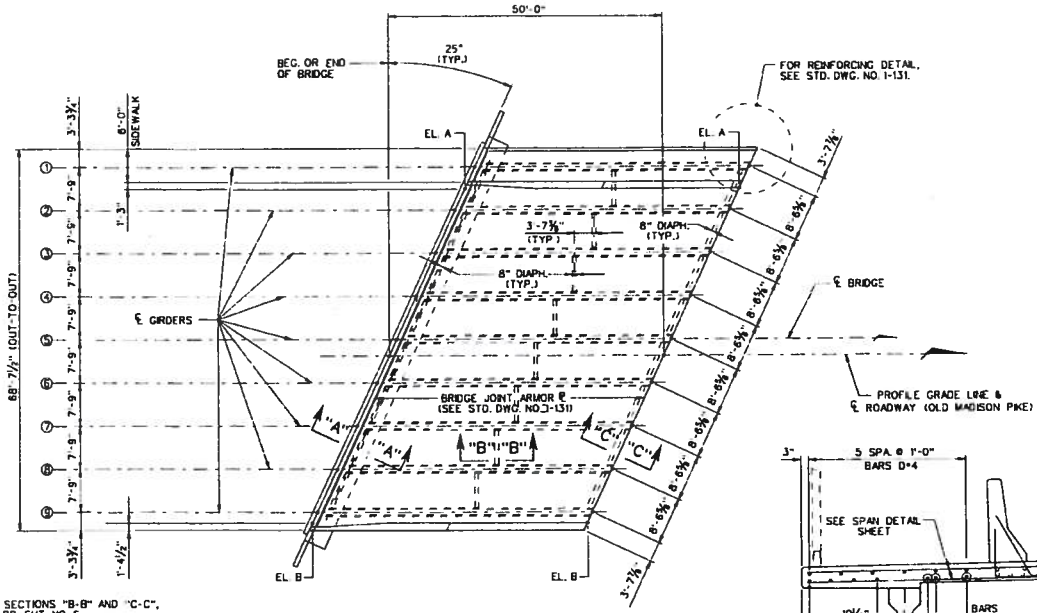
FOUNDATION LAYOUT

BIN:	019000	ESTIMATED QUANTITIES	DESIGNED BY: CEE	DRAWN BY: MFJ	
		COMPUTED BY: N/A	CHECKED BY: CEE	DATE DRAWN: 5/15/12	
		VERIFIED BY: N/A	DATE CHECKED: 5/15/12	SCALE: SHOWN	

Plotted: SYSTEM DATE&TIME*

BBSDESIGN FILE SPECIFICATIONS8

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	6 of 32



NOTE: FOR SECTIONS "B-B" AND "C-C", SEE BR. SHT. NO. 6.

NOTE: SPLICE BARS TYPE D AND TYPE E 24 DIA.

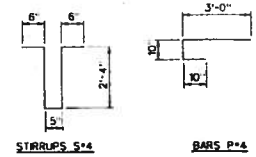
NOTE: BETWEEN GIRDERS 1 AND 2, REPLACE 3 BARS D#4 IN BOTTOM SLAB FROM BRIDGE RAIL WITH E#5 BARS.

PLAN

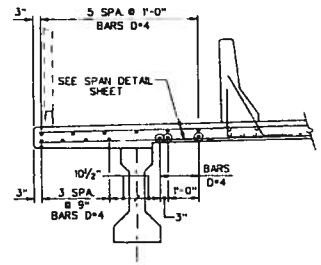
(SPAN NO. 1 SHOWN, SPAN NO. 7 OPPOSITE HAND)
SCALE: 1" = 10'-0"

FINISHED GRADE ELEVATIONS: SPAN NO. 1											
DESCRIPTION	A	GDR. 1	GDR. 2	GDR. 3	GDR. 4	GDR. 5	GDR. 6	GDR. 7	GDR. 8	GDR. 9	B
BEGIN BRIDGE	633.243	633.186	633.298	633.410	633.522	633.634	633.554	633.356	633.158	632.960	632.910
℄ JT. BT. 2	633.827	633.768	633.884	634.000	634.114	634.227	634.147	633.949	633.751	633.553	633.504

FINISHED GRADE ELEVATIONS: SPAN NO. 7											
DESCRIPTION	A	GDR. 1	GDR. 2	GDR. 3	GDR. 4	GDR. 5	GDR. 6	GDR. 7	GDR. 8	GDR. 9	B
℄ JT. BT. 7	633.660	633.561	633.755	633.949	634.143	634.337	634.340	634.223	634.104	633.984	633.954
END BRIDGE	633.124	633.025	633.219	633.413	633.606	633.800	633.801	633.685	633.569	633.453	633.424

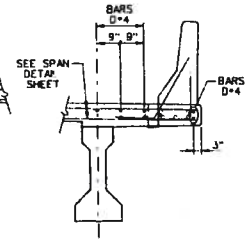


STIRRUPS S#4 BARS P#4



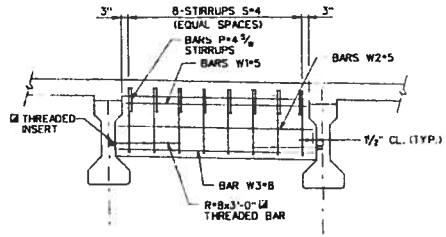
LEFT CANTILEVER AND SIDEWALK DETAIL

SCALE: ½"=1'-0"



RIGHT CANTILEVER DETAIL

SCALE: ½"=1'-0"

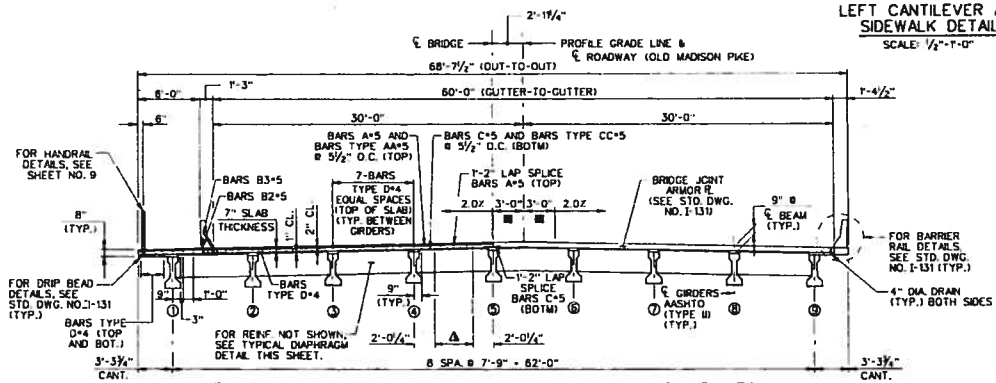


TYPICAL DIAPHRAGM DETAIL AT BEARINGS

SCALE: ½"=1'-0"

☑ NOTE: THE THREADED BARS AND INSERTS SHALL BE INCLUDED WITH THE PRETENSIONED-PRESTRESSED CONCRETE GIRDERS. TYPE 8 GIRDER FABRICATOR TO FURNISH BARS R#8. SEE BR. SHT. NO. 7, FOR ADDITIONAL INFORMATION.

NOTE: FOR INTERMEDIATE DIAPHRAGMS, SEE BRIDGE SHEETS 4 AND 6



TYPICAL CROSS-SECTION

TYPICAL HALF-END VIEW

SCALE: ⅜" = 1'-0"

■ FOR 6'-0" PARABOLIC CROWN ORDINATES, SEE STD. DWG. NO. 1-131

Δ 7-BARS TYPE E#5 EQ. SPACES (BOT. OF SLAB) (TYP. BETWEEN GRDRS.)

ESTIMATED QUANTITIES (PER SPAN)		
QUANTITY	UNIT	DESCRIPTION
94.5	CUBIC YARDS	SUPERSTRUCTURE CONCRETE
22,725	POUNDS	STEEL REINFORCEMENT
2,678	POUNDS	STRUCTURAL STEEL

BRIDGE, WAGONER, SUMNER & CANNON, INC.

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DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 4 OF 32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)

BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK

STA. 25.20

MADISON COUNTY

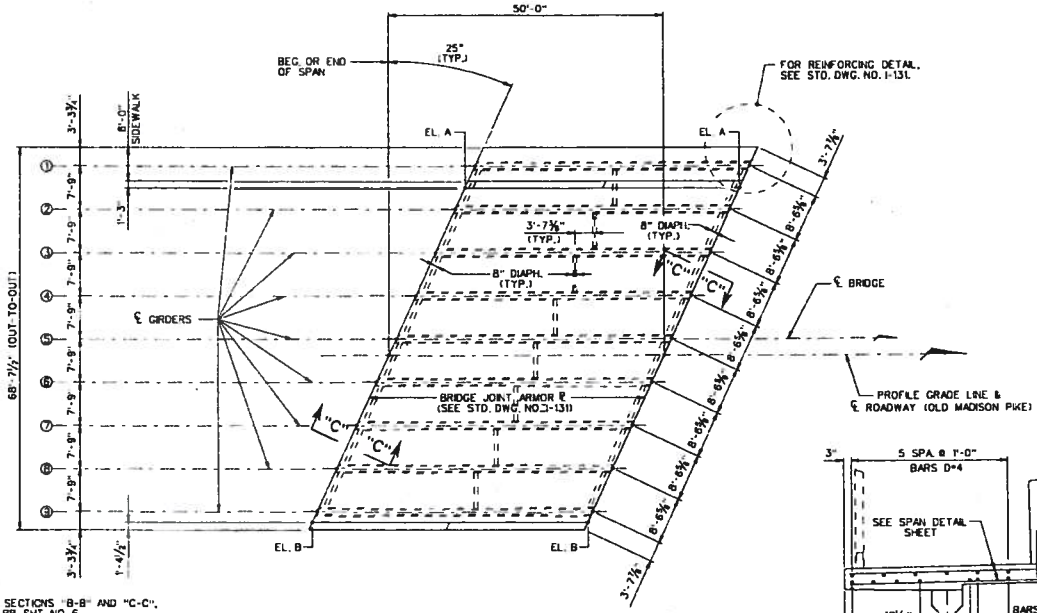
SPAN NOS. 1 AND 7 DETAILS

BIN: 019000

ESTIMATED QUANTITIES	DESIGNED BY: CEE	DRAWN BY: MFJ	
COMPUTED BY: CEE	CHECKED BY: CEE	DATE DRAWN: 2/22/12	
VERIFIED BY: N/A	DATE CHECKED: 3/12/12	SCALE: SHOWN	

Project: SYSTEM DATE/TIME:9/8/2011 DESIGN FILE SPECIFICATION:89

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	4



NOTE: FOR SECTIONS "B-B" AND "C-C", SEE BR. SHT. NO. 6.

NOTE: SPLICE BARS TYPE D AND TYPE E 24 DIA.

NOTE: BETWEEN GIRDERS 1 AND 2, REPLACE 3 BARS D#4 IN BOTTOM SLAB FROM BRIDGE RAIL WITH E#5 BARS.

PLAN

(SPAN NOS. 2 THRU 6)
SCALE: 1" = 10'-0"

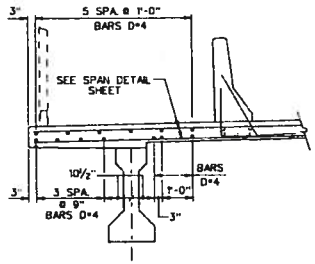
FINISHED GRADE ELEVATIONS: SPAN NO. 2											
DESCRIPTION	A	GDR. 1	GDR. 2	GDR. 3	GDR. 4	GDR. 5	GDR. 6	GDR. 7	GDR. 8	GDR. 9	B
℄ JT. BT. 2	633.827	633.768	633.884	634.000	634.114	634.227	634.147	633.949	633.751	633.553	633.504
℄ JT. BT. 3	634.245	634.177	634.310	634.442	634.572	634.702	634.638	634.455	634.271	634.085	634.039

FINISHED GRADE ELEVATIONS: SPAN NO. 3											
DESCRIPTION	A	GDR. 1	GDR. 2	GDR. 3	GDR. 4	GDR. 5	GDR. 6	GDR. 7	GDR. 8	GDR. 9	B
℄ JT. BT. 3	634.245	634.177	634.310	634.442	634.572	634.702	634.638	634.455	634.271	634.085	634.039
℄ JT. BT. 4	634.436	634.360	634.509	634.657	634.804	634.950	634.902	634.736	634.568	634.399	634.357

FINISHED GRADE ELEVATIONS: SPAN NO. 4											
DESCRIPTION	A	GDR. 1	GDR. 2	GDR. 3	GDR. 4	GDR. 5	GDR. 6	GDR. 7	GDR. 8	GDR. 9	B
℄ JT. BT. 4	634.436	634.360	634.509	634.657	634.804	634.950	634.902	634.736	634.568	634.399	634.357
℄ JT. BT. 5	634.401	634.317	634.483	634.647	634.810	634.973	634.941	634.791	634.639	634.487	634.448

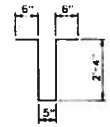
FINISHED GRADE ELEVATIONS: SPAN NO. 5											
DESCRIPTION	A	GDR. 1	GDR. 2	GDR. 3	GDR. 4	GDR. 5	GDR. 6	GDR. 7	GDR. 8	GDR. 9	B
℄ JT. BT. 5	634.401	634.317	634.483	634.647	634.810	634.973	634.941	634.791	634.639	634.487	634.448
℄ JT. BT. 6	634.141	634.048	634.230	634.411	634.590	634.769	634.754	634.620	634.485	634.349	634.314

FINISHED GRADE ELEVATIONS: SPAN NO. 6											
DESCRIPTION	A	GDR. 1	GDR. 2	GDR. 3	GDR. 4	GDR. 5	GDR. 6	GDR. 7	GDR. 8	GDR. 9	B
℄ JT. BT. 6	634.141	634.048	634.230	634.411	634.590	634.769	634.754	634.620	634.485	634.349	634.314
℄ JT. BT. 7	633.660	633.561	633.755	633.949	634.143	634.337	634.340	634.223	634.104	633.984	633.954

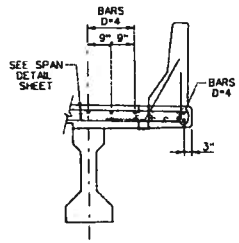


LEFT CANTILEVER AND SIDEWALK DETAIL

SCALE: ½"=1'-0"

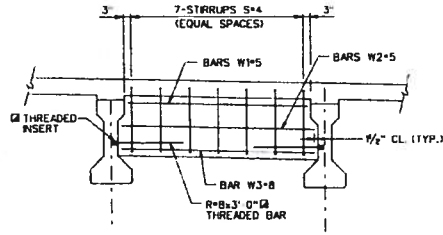


STIRRUPS S#4



RIGHT CANTILEVER DETAIL

SCALE: ½"=1'-0"

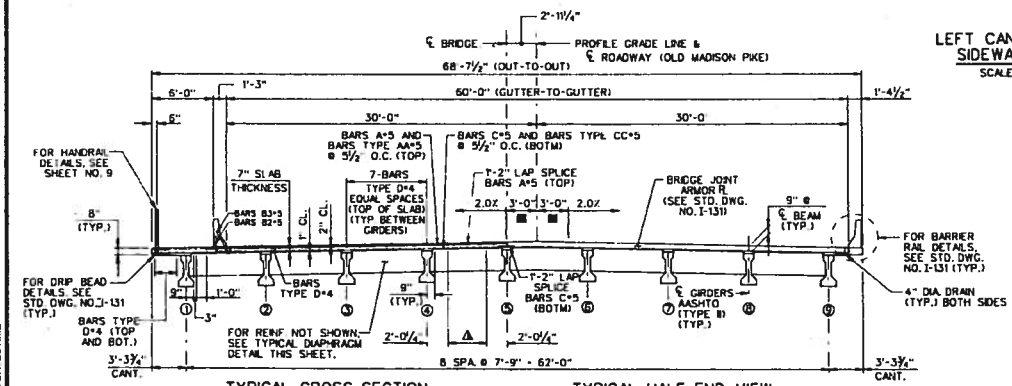


TYPICAL INTERMEDIATE DIAPHRAGM DETAIL

SCALE: ½"=1'-0"

NOTE: THE THREADED BARS AND INSERTS SHALL BE INCLUDED WITH THE PRETENSIONED-PRESTRESSED CONCRETE GIRDERS. TYPE II GIRDER FABRICATOR TO FURNISH BARS R#8. SEE BR. SHT. NO. 7, FOR ADDITIONAL INFORMATION.

NOTE: FOR DIAPHRAGMS AT BEARINGS, SEE BRIDGE SHEETS 3 AND 6.



TYPICAL CROSS-SECTION

TYPICAL HALF-END VIEW

SCALE: 3/16" = 1'-0"

■ FOR 6'-0" PARABOLIC CROWN ORDINATES, SEE STD. DWG. NO. I-131

Δ 7-BARS TYPE E#5 EQ. SPACES (BOT. OF SLAB) (TYP. BETWEEN GRDRS.)

ESTIMATED QUANTITIES (PER SPAN)		
QUANTITY	UNIT	DESCRIPTION
95.6	CUBIC YARDS	SUPERSTRUCTURE CONCRETE
20,095	POUNDS	STEEL REINFORCEMENT
2,649	POUNDS	STRUCTURAL STEEL

BARGE, WAGGONER, SUMNER & CANNON, INC.
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DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 5 OF 32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)

BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK
STA. 25.20

MADISON COUNTY

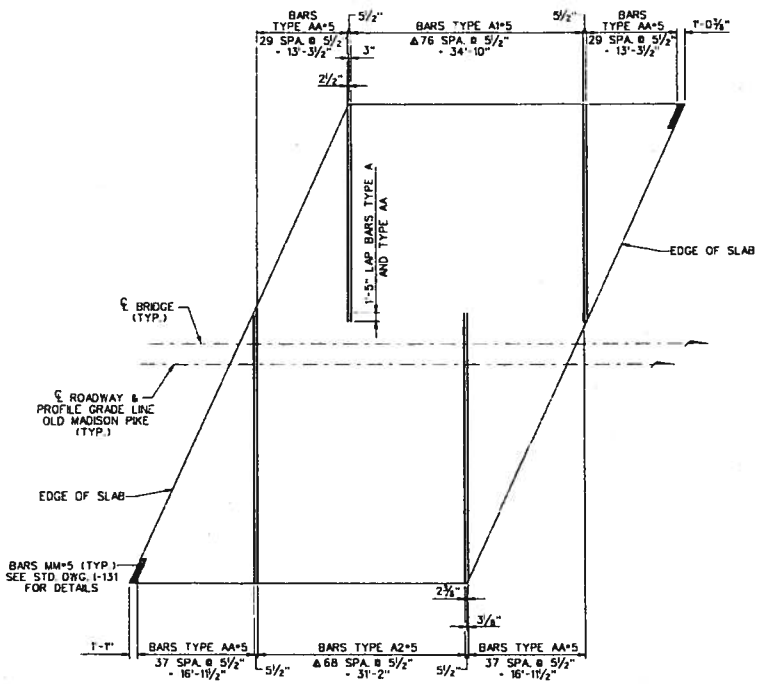
SPAN NOS. 2, 3, 4, 5, AND 6 DETAILS

BIN: 019000

ESTIMATED QUANTITIES	DESIGNED BY: CEC	DRAWN BY: MTJ	
COMPUTED BY: CEC	CHECKED BY: CLC	DATE DRAWN: 2/22/12	
VERIFIED BY: N/A	DATE CHECKED: 6/12/12	SCALE: 1"=10'-0"	

SYSTEM DATE & TIME:
PROJECT:
$$DESIGN FILE SPECIFICATIONS$$
BRIDGE SHEET

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	76

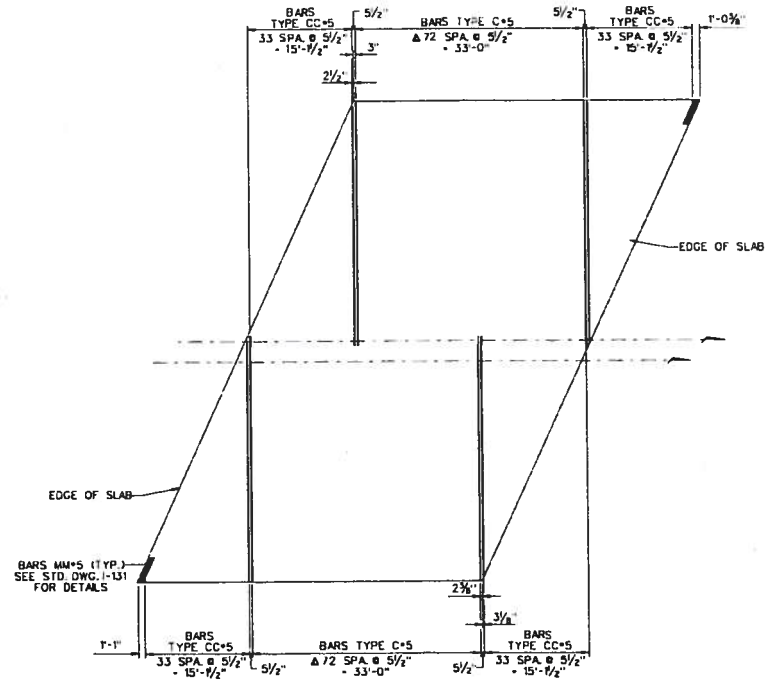


BARS A - TOP MAT ONLY

(SPAN NO. 2 SHOWN, SPANS 3 THRU 6 IDENTICAL)
NOT TO SCALE

NOTE: SPLICE BARS TYPE A - 1'-5".

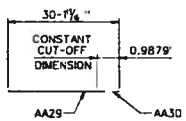
▲ DENOTES: FOR SPANS 1 & 7, OMIT (2) SPA. @ 5½" FOR A TOTAL LENGTH OF 11".



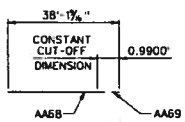
BARS C - BOTTOM MAT ONLY

(SPAN NO. 2 SHOWN, SPANS 3 THRU 6 IDENTICAL)
NOT TO SCALE

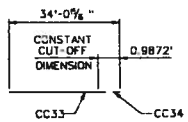
NOTE: SPLICE BARS TYPE C - 1'-5"



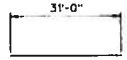
BARS AA1 THRU AA30
(TOP ONLY)



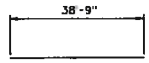
BARS AA31 THRU AA69
(TOP ONLY)



BARS CC1 THRU CC34
(BOTTOM ONLY)



BARS A1*5



BARS A2*5

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DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

BARGE, WAGONER, SUMMER & CANNON, INC.

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO 6 OF32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)
BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK
STA. 25.20

MADISON COUNTY

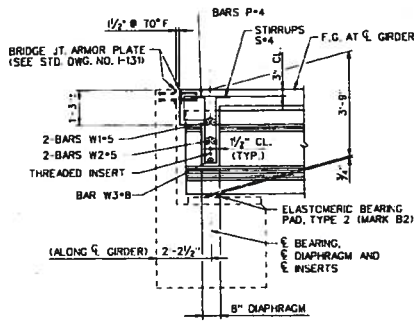
SPAN NOS. 1 THRU 7 DETAILS

ESTIMATED QUANTITIES		DESIGNED BY:	CCE	DRAWN BY:	MTJ
COMPUTED BY:	CCE	CHECKED BY:	CCE	DATE DRAWN:	2/22/12
VERIFIED BY:	N/A	DATE CHECKED:	5/2/12	SCALE:	SHOWN

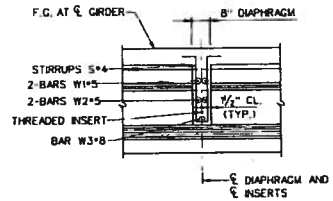
BIN: 019000

Plotted: SYSTEM DATE&TIME*$$DESIGN FILE SPECIFICATION$$

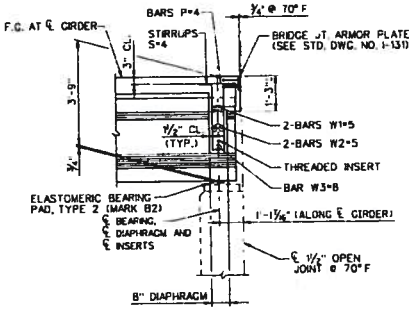
REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	7



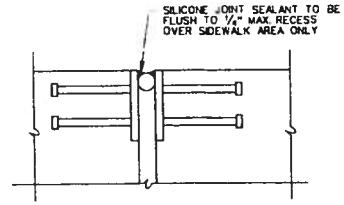
SECTION "A-A"
SCALE: ½"=1'-0"



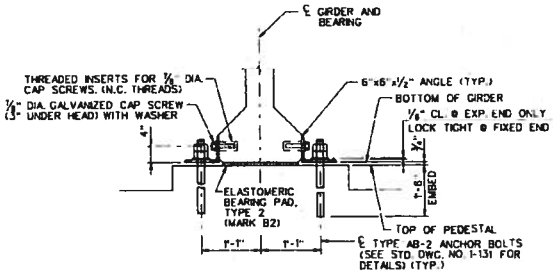
SECTION "B-B"
SCALE: ½"=1'-0"



SECTION "C-C"
SCALE: ½"=1'-0"



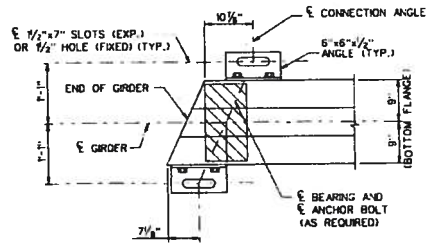
EXPANSION JOINT DETAIL @ SIDEWALK
NOT TO SCALE



ELEVATION
SCALE: 1"=1'-0"

AASHTO TYPE II
BEARING ASSEMBLY
(FIXED END AND OUTSIDE GIRDERS AT EXP. END)

NOTE: ANGLES AND ANCHOR BOLTS SHALL BE OMITTED AT INTERIOR GIRDERS AT EXPANSION ENDS.



TYPICAL GIRDER END TYPE II
(PLAN VIEW)
SCALE: 1"=1'-0"

NOTE: SEE STD. DWG. NO. I-131 FOR CLIP ANGLES AND BEARING PAD DETAILS.

NOTE FOR OTHER DETAILS NOT SHOWN, SEE STANDARD DRAWING NO. I-131

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BRIDGE SECTION SUPERVISOR
ASSISTANT BRIDGE ENGINEER
BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 7 OF 32

PROJECT NO. STPAA-STPHV-8525 (600)
BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK
STA. 25.20
MADISON COUNTY

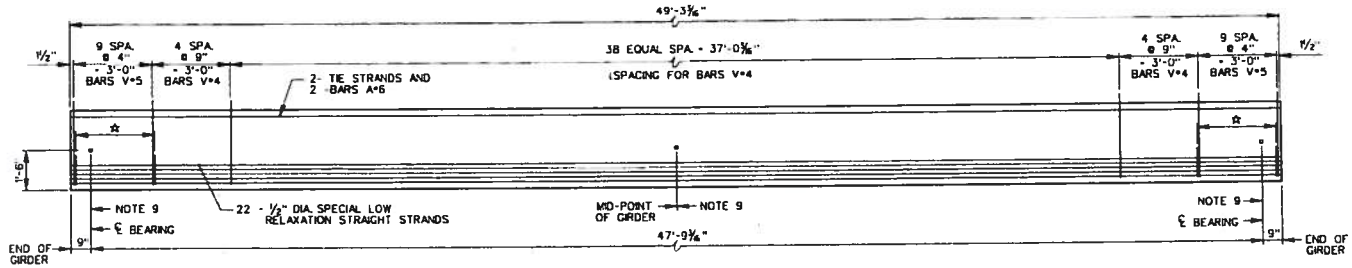
DIAPHRAGM AND BEARING DETAILS

ESTIMATED QUANTITIES	DESIGNED BY: CEE	DRAWN BY: MTJ	
COMPUTED BY: CEE	CHECKED BY: CEE	DATE DRAWN: 3/20/12	
VERIFIED BY: N/A	DATE CHECKED: 5/22/12	SCALE: SHOWN	

BIN# 019000

$$$DESIGN FILE SPECIFICATIONS$$
Plotted: SYSTEM DATE&TIME

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	7E

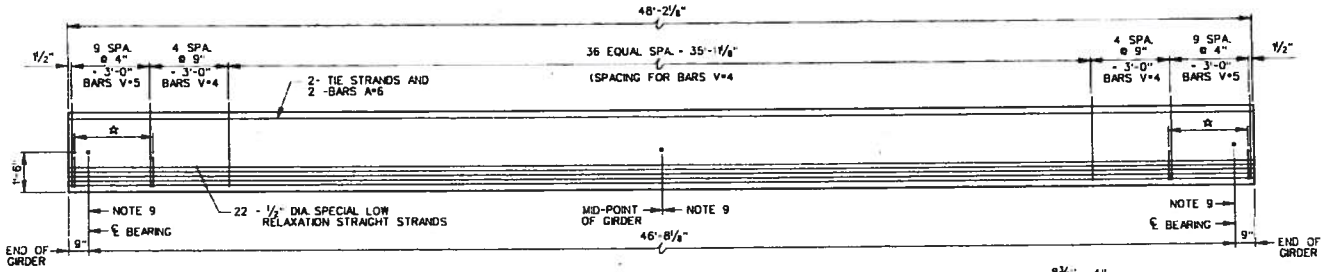


☆ DENOTES- 8 PAIRS BARS B=3 - 7 SPA. @ 6"

GIRDER ELEVATION AASHTO TYPE II (SPANS 2-6)

(DIMENSIONING IS ALONG ℄ GIRDER)

SCALE: 1" = 20'-0"



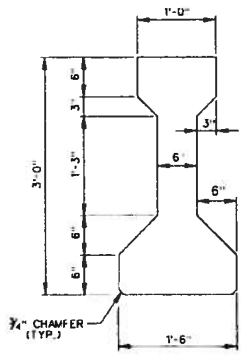
GIRDER ELEVATION AASHTO TYPE II (SPANS 1 & 7)

(DIMENSIONING IS ALONG ℄ GIRDER)

SCALE: 1" = 20'-0"

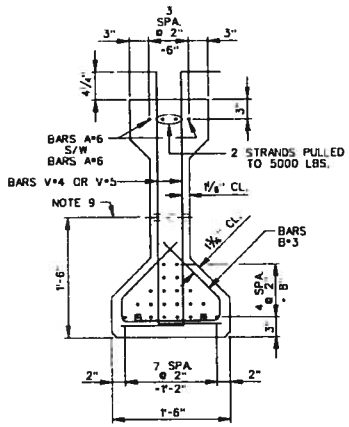
NOTES

1. ALL STRANDS NOT ENCASED IN CONCRETE SHALL BE CUT FLUSH AT EACH END OF THE GIRDER. COAT GIRDER ENDS WHERE STRANDS ARE CUT WITH AN APPROVED EPOXY COATING.
2. PRESTRESSED STRANDS SHALL BE 1/2" DIA. 7 WIRE SPECIAL LOW RELAXATION STRANDS OF 270 KSI ULTIMATE TENSILE STRENGTH. NOMINAL STRAND DIAMETER -0.500 IN. AND STRAND AREA = 0.153 SQ. IN.
3. INITIAL TENSION LOWER 22 STRANDS TO 30,975 LBS. EACH.
4. INITIAL TENSION TOP TWO STRANDS TO 5,000 LBS. EACH. TIE BARS V=4 OR V=5 TO THESE STRANDS.
5. CONCRETE IN GIRDERS SHALL HAVE A MINIMUM OF 6,000 PSI COMPRESSIVE STRENGTH PRIOR TO RECEIVING PRESTRESSING FORCE AND A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 7,000 PSI.
6. COST OF T1=B THREADED REINFORCING BARS X 3'-0" LONG SHALL BE INCLUDED IN PRICE BID FOR 'LIN. FT. PRETENSIONED-PRESTRESSED CONCRETE AASHTO TYPE II GIRDERS (SPECIALTY ITEM)."
7. CONNECTION ANGLES ARE REQUIRED FOR ALL GIRDERS FOR BOTH SIDES AT FIXED ENDS AND FOR EXTERIOR GIRDERS ONLY AT EXPANSION ENDS. FOR DETAILS SEE STD. DWG. I-131.
8. GIRDER ENDS SHALL BE VERTICAL IN THE FINAL ERECTED POSITION.
9. ℄ 1 1/2" DIA. HOLES (TYP @ GIRDERS NO. 2 THRU NO. 8) & ℄ 1" INSERTS ON INSIDE FACE ONLY OF GIRDERS NO. 1 & NO. 9.
10. STRANDS SHALL REMAIN UNBONDED BY USING PLASTIC SHEATHS AROUND ENDS OF CABLES AT ENDS OF GIRDERS.



AASHTO TYPE II GIRDER

NOT TO SCALE

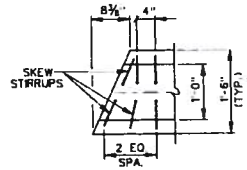


SECTION OF GIRDER

NOT TO SCALE

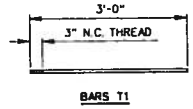
■ DENOTES: DEBOND 4'-0" FROM ENDS

BARS V

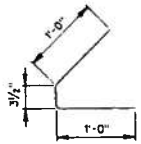


PLAN - GIRDER ENDS (TYP.)

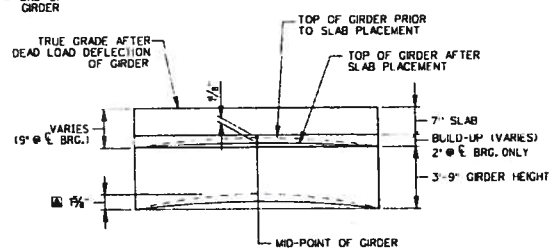
SCALE: 1" = 1'-0"



BARS T1



BARS B



1 THEORETICAL CAMBER (UPWARD DEFLECTION) SHOWN. ACTUAL CAMBER OF GIRDER MAY VARY AND SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO ORDERING MATERIAL AND SETTING FORMS.

DETAIL OF BUILD-UP BETWEEN BOTTOM OF SLAB AND TOP OF GIRDER (ALONG ℄ GIRDER)

NOT TO SCALE

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BARGE, WAGONER, SUMNER & CANNON, INC.

DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 8 OF 32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)

BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK

STA. 25.20

MADISON COUNTY

GIRDER DETAILS (SPANS 1 THRU 7)

BIN: 019000	ESTIMATED QUANTITIES	DESIGNED BY: CEE	DRAWN BY: MTJ
	COMPUTED BY: CEE	CHECKED BY: CEE	DATE DRAWN: 2/20/12
	VERIFIED BY: N/A	DATE CHECKED: 6/12/12	SCALE: 5-0 MM

DESIGN FILE SPECIFICATIONS
Plotted: SYSTEM DATE/TIME

10TH POINT ELEVATIONS

SPAN LOCATION	BEARING	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	BEARING
1 GIRDER 1	633.212	633.267	633.323	633.376	633.453	633.489	633.544	633.600	633.654	633.708	633.766
1 LT GUTTER	633.236	633.294	633.380	633.435	633.490	633.546	633.601	633.657	633.711	633.764	633.815
1 GIRDER 2	633.324	633.378	633.433	633.488	633.546	633.601	633.656	633.712	633.767	633.821	633.872
1 GIRDER 3	633.438	633.491	633.547	633.602	633.658	633.713	633.768	633.824	633.878	633.934	633.988
1 GIRDER 4	633.548	633.603	633.658	633.714	633.770	633.825	633.881	633.936	633.991	634.047	634.101
1 GIRDER 5	633.660	633.716	633.771	633.826	633.882	633.937	633.993	634.048	634.103	634.158	634.177
1 GIRDER 6	633.580	633.635	633.691	633.746	633.801	633.857	633.912	633.968	634.023	634.078	634.154
1 GIRDER 7	633.382	633.437	633.493	633.548	633.604	633.659	633.714	633.770	633.825	633.881	633.938
1 GIRDER 8	633.164	633.229	633.295	633.350	633.406	633.461	633.516	633.572	633.627	633.683	633.738
1 GIRDER 9	632.986	633.041	633.097	633.152	633.208	633.263	633.319	633.374	633.429	633.485	633.540
1 RT GUTTER	632.937	632.992	633.047	633.103	633.158	633.214	633.269	633.324	633.380	633.435	633.491

SPAN LOCATION	BEARING	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	BEARING
2 GIRDER 1	633.779	633.835	633.874	633.918	633.960	634.001	634.039	634.075	634.109	634.140	634.170
2 LT GUTTER	633.839	633.888	633.935	633.980	634.023	634.064	634.103	634.140	634.174	634.207	634.238
2 GIRDER 2	633.888	633.943	633.994	634.040	634.084	634.125	634.165	634.203	634.238	634.271	634.303
2 GIRDER 3	634.012	634.064	634.113	634.161	634.206	634.248	634.289	634.329	634.366	634.401	634.434
2 GIRDER 4	634.127	634.180	634.231	634.280	634.327	634.372	634.414	634.455	634.494	634.530	634.565
2 GIRDER 5	634.240	634.295	634.346	634.396	634.447	634.495	634.537	634.579	634.620	634.658	634.694
2 GIRDER 6	634.160	634.218	634.271	634.323	634.373	634.420	634.466	634.510	634.552	634.592	634.629
2 GIRDER 7	633.962	634.019	634.075	634.128	634.180	634.229	634.277	634.322	634.365	634.407	634.446
2 GIRDER 8	633.765	633.821	633.878	633.933	633.985	634.037	634.086	634.133	634.178	634.221	634.261
2 GIRDER 9	633.567	633.623	633.680	633.737	633.791	633.844	633.894	633.943	633.989	634.034	634.076
2 RT GUTTER	633.517	633.574	633.631	633.687	633.742	633.795	633.846	633.895	633.942	633.987	634.029

SPAN LOCATION	BEARING	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	BEARING
3 GIRDER 1	634.188	634.210	634.236	634.257	634.276	634.297	634.313	634.327	634.340	634.350	634.358
3 LT GUTTER	634.351	634.379	634.304	634.298	634.349	634.368	634.385	634.401	634.414	634.425	634.434
3 GIRDER 2	634.317	634.345	634.371	634.396	634.418	634.438	634.459	634.472	634.488	634.497	634.507
3 GIRDER 3	634.449	634.478	634.507	634.532	634.556	634.578	634.597	634.615	634.630	634.644	634.655
3 GIRDER 4	634.580	634.611	634.641	634.668	634.693	634.717	634.736	634.757	634.774	634.788	634.802
3 GIRDER 5	634.710	634.743	634.774	634.803	634.830	634.854	634.877	634.898	634.916	634.933	634.947
3 GIRDER 6	634.648	634.681	634.713	634.743	634.772	634.798	634.822	634.845	634.865	634.883	634.898
3 GIRDER 7	634.488	634.600	634.654	634.686	634.688	634.628	634.649	634.678	634.698	634.714	634.728
3 GIRDER 8	634.280	634.317	634.353	634.387	634.418	634.448	634.475	634.500	634.524	634.545	634.564
3 GIRDER 9	634.098	634.134	634.171	634.206	634.239	634.270	634.299	634.326	634.351	634.374	634.395
3 RT GUTTER	634.048	634.089	634.128	634.161	634.195	634.228	634.265	634.289	634.308	634.331	634.352

SPAN LOCATION	BEARING	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	BEARING
4 GIRDER 1	634.351	634.367	634.370	634.371	634.370	634.367	634.361	634.354	634.345	634.334	634.320
4 LT GUTTER	634.438	634.444	634.447	634.449	634.449	634.447	634.442	634.436	634.428	634.417	634.404
4 GIRDER 2	634.511	634.519	634.522	634.525	634.526	634.524	634.521	634.515	634.507	634.497	634.486
4 GIRDER 3	634.660	634.669	634.674	634.678	634.680	634.680	634.678	634.674	634.668	634.660	634.650
4 GIRDER 4	634.807	634.817	634.825	634.830	634.834	634.836	634.835	634.833	634.828	634.821	634.813
4 GIRDER 5	634.968	634.986	634.974	634.981	634.985	634.980	634.981	634.970	634.957	634.952	634.976
4 GIRDER 6	634.908	634.919	634.930	634.935	634.948	634.940	634.935	634.929	634.922	634.940	634.949
4 GIRDER 7	634.759	634.764	634.768	634.777	634.788	634.792	634.789	634.788	634.786	634.780	634.792
4 GIRDER 8	634.572	634.589	634.602	634.614	634.624	634.632	634.638	634.641	634.643	634.643	634.640
4 GIRDER 9	634.408	634.421	634.437	634.450	634.462	634.471	634.479	634.484	634.487	634.488	634.487
4 RT GUTTER	634.361	634.379	634.395	634.408	634.421	634.431	634.439	634.444	634.448	634.449	634.449

SPAN LOCATION	BEARING	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	BEARING
5 GIRDER 1	634.313	634.297	634.276	634.256	634.235	634.211	634.184	634.155	634.124	634.091	634.056
5 LT GUTTER	634.395	634.382	634.365	634.345	634.323	634.299	634.273	634.245	634.215	634.183	634.149
5 GIRDER 2	634.479	634.465	634.448	634.429	634.408	634.385	634.359	634.332	634.303	634.271	634.238
5 GIRDER 3	634.644	634.631	634.612	634.598	634.576	634.557	634.534	634.508	634.480	634.450	634.418
5 GIRDER 4	634.802	634.789	634.782	634.767	634.749	634.729	634.707	634.683	634.656	634.628	634.595
5 GIRDER 5	634.970	634.960	634.946	634.934	634.917	634.899	634.879	634.856	634.831	634.805	634.776
5 GIRDER 6	634.899	634.891	634.880	634.867	634.892	634.876	634.857	634.836	634.813	634.788	634.760
5 GIRDER 7	634.789	634.782	634.773	634.762	634.749	634.734	634.716	634.697	634.675	634.652	634.626
5 GIRDER 8	634.628	634.639	634.635	634.616	634.604	634.590	634.575	634.557	634.537	634.515	634.491
5 GIRDER 9	634.488	634.482	634.478	634.468	634.458	634.446	634.432	634.415	634.397	634.377	634.354
5 RT GUTTER	634.448	634.444	634.438	634.431	634.421	634.410	634.396	634.380	634.362	634.342	634.320

SPAN LOCATION	BEARING	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	BEARING
6 GIRDER 1	634.036	634.001	633.961	633.918	633.875	633.829	633.780	633.727	633.678	633.625	633.579
6 LT GUTTER	634.122	634.096	634.055	634.014	633.971	633.925	633.876	633.826	633.774	633.723	633.672
6 GIRDER 2	634.222	634.185	634.147	634.109	634.064	634.018	633.972	633.923	633.870	633.818	633.767
6 GIRDER 3	634.405	634.368	634.331	634.292	634.251	634.208	634.163	634.115	634.066	634.012	633.961
6 GIRDER 4	634.583	634.550	634.514	634.477	634.437	634.399	634.352	634.305	634.258	634.208	634.155
6 GIRDER 5	634.762	634.730	634.698	634.660	634.622	634.582	634.540	634.496	634.450	634.402	634.349
6 GIRDER 6	634.747	634.717	634.685	634.650	634.614	634.575	634.535	634.492	634.448	634.401	634.352
6 GIRDER 7	634.613	634.585	634.554	634.521	634.487	634.450	634.411	634.370	634.327	634.281	634.234
6 GIRDER 8	634.478	634.452	634.423	634.391	634.358	634.323	634.285	634.246	634.204	634.161	634.115
6 GIRDER 9	634.342	634.317	634.290	634.260	634.228	634.195	634.160	634.121	634.081	634.039	633.995
6 RT GUTTER	634.303	634.284	634.258	634.227	634.198	634.162	634.127	634.089	634.050	634.008	633.965

SPAN LOCATION	BEARING	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	BEARING
7 GIRDER 1	633.650	633.496	633.449	633.399	633.348	633.299	633.249	633.199	633.149	633.099	633.049
7 LT GUTTER	633.648	633.598	633.548	633.498	633.448	633.398	633.348	633.297	633.247	633.197	633.147
7 GIRDER 2	633.743	633.693	633.643	633.593	633.543	633.493	633.443	633.393	633.343	633.293	633.243
7 GIRDER 3	633.937	633.887	633.837	633.787	633.737	633.687	633.637	633.587	633.536	633.486	633.436
7 GIRDER 4	634.131	634.081	634.031	633.981	633.931	633.880	633.830	633.780	633.730	633.680	633.630
7 GIRDER 5	634.325	634.275	634.224	634.174	634.124	634.074	634.024	633.974	633.924	633.874	633.824
7 GIRDER 6	634.329	634.278	634.228	634.178	634.128	634.078	634.028	633.976	633.926	633.876	633.826
7 GIRDER 7	634.211	634.162	634.109	634.059	634.009	633.959	633.909	633.859	633.809	633.759	633.709
7 GIRDER 8	634.099	634.046	633.976	633.926	633.776	633.726	633.676	633.626	633.575	633.525	633.475
7 GIRDER 9	633.874	633.825	633.880	633.827	633.777	633.727	633.677	633.627	633.577	633.526	633.476
7 RT GUTTER	633.843	633.896	633.850	633.798	633.748	633.698	633.648	633.598	633.548	633.497	633.447

SEE STD. DWG. NO. I-131 FOR CLIP ANGLES AND BEARING PAD DETAILS.

BARGE, WAGGONER, SUMNER & CANNON, INC.

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DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO 9 OF 32

REVISIONS

BIN: 019000

PROJECT NO. STPAA-STPHV-8525 (600)
BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK
STA. 25.20

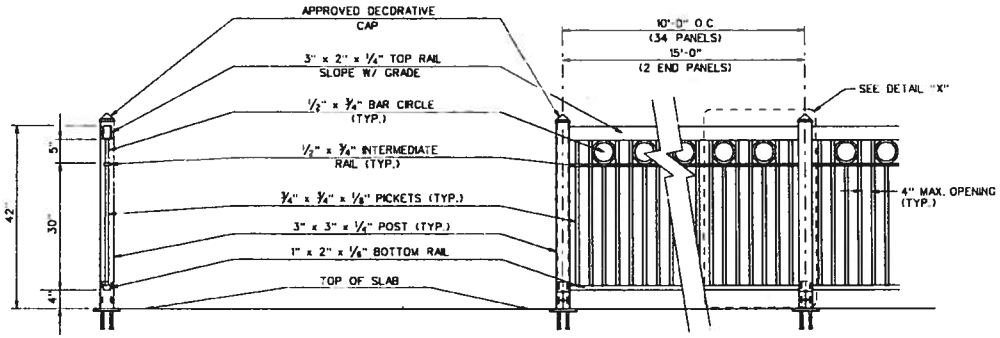
MADISON COUNTY

SCREED ELEVATIONS

ESTIMATED QUANTITIES	DESIGNED BY CEE	DRAWN BY MTJ
COMPUTED BY CEE	CHECKED BY CEL	DATE DRAWN 2/2/12
VERIFIED BY N/A	DATE CHECKED 8/12/12	SCALE SHOWN

Plotted: SYSTEM DATE&TIME*

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525(600)	2012	14

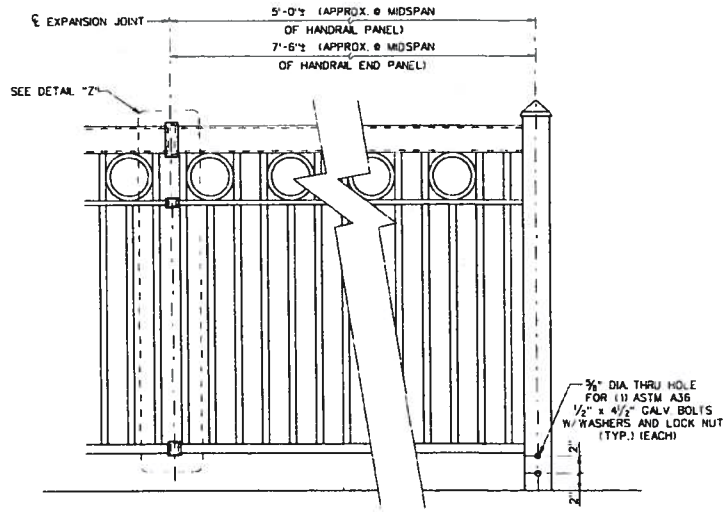


SECTION OF HAND RAIL
N.T.S.

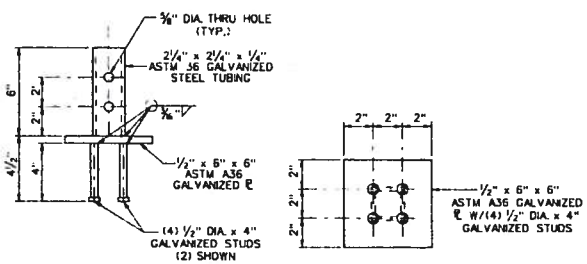
ELEVATION OF HAND RAIL
N.T.S.

NOTES:

1. HANDRAIL PANELS SHALL BE ALL STEEL (STD. STRENGTH) CONSTRUCTION, WITH FULL STRENGTH WELDED CONNECTIONS GROUND SMOOTH, UNLESS INDICATED OTHERWISE.
2. PRIME AND PAINT FENCE W/ ONE PRIME COAT AND TWO FINISH COATS OF EXTERIOR ENAMEL, COLOR - _____
3. SUBMIT SHOP DRAWINGS OF HANDRAIL FOR APPROVAL.
4. RAILING SHALL EXTEND 10' BEYOND BEGINNING AND END OF BRIDGE.



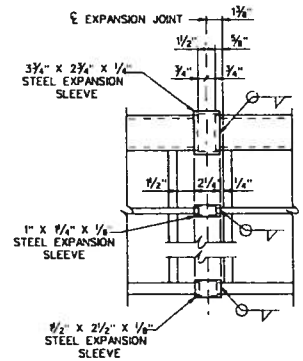
DETAIL "X"
N.T.S.



ELEVATION

PLAN

MOUNTING PLATE
(37) REQUIRED



DETAIL "Z"
(TYP. AT EACH BRIDGE JOINT)
N.T.S.

BARGE, WAGONER, SUMMER & CANNON, INC.

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DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 10 OF 32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)
BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK
STA. 25.20

MADISON COUNTY

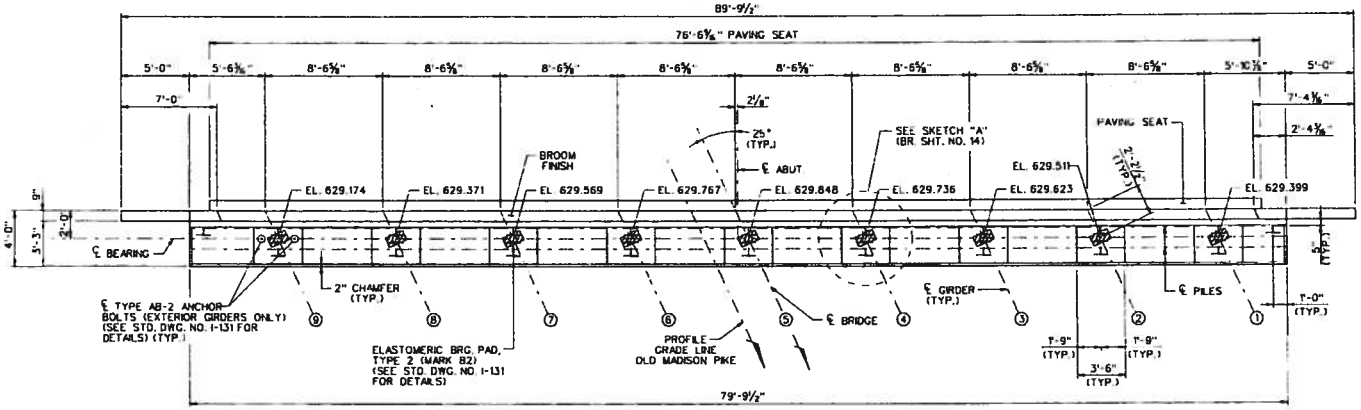
HANDRAIL DETAILS

ESTIMATED QUANTITIES		DESIGNED BY:	CLE	DRAWN BY:	MTJ
COMPUTED BY:	CLE	CHECKED BY:	CLE	DATE DRAWN:	2/22/12
VERIFIED BY:	N/A	DATE CHECKED:	8/12/12	SCALE:	SHOWN

BIN: 019000

Plotted: SYSTEM DATE&TIME*$$DESIGN FILE SPECIFICATION$$

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	7-5

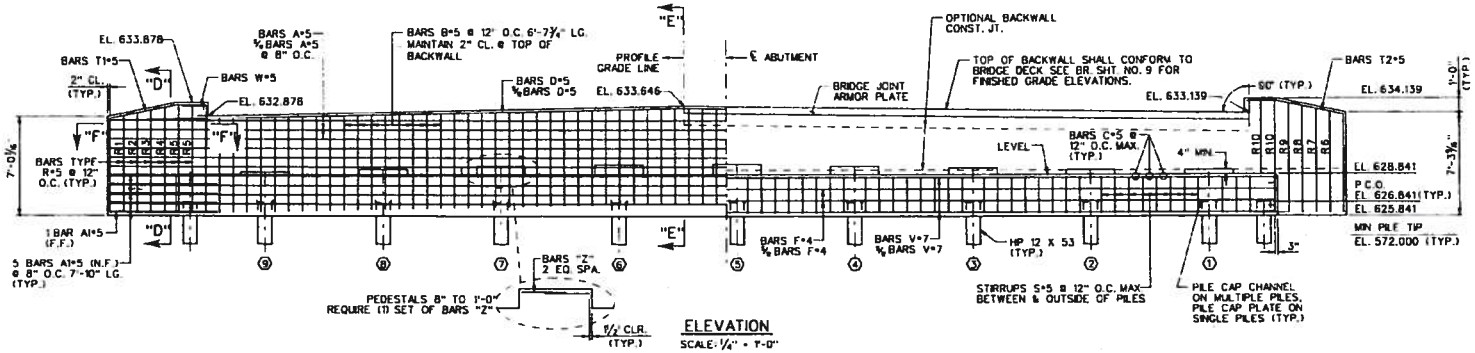


PLAN

SCALE: ¼" = 1'-0"

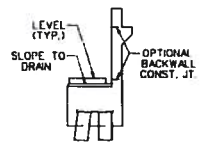
NOTES

1) CONCRETE PEDESTAL TO BE POURED CONCURRENTLY WITH CAP.
2) FOR DETAILS OF ANCHOR BOLTS, PAVING SEAT, PILE CAP PLATES, PILE CAP CHANNELS, PILE SPLICE AND BRIDGE JOINT ARMOR PLATE, SEE STD. DWG. NO. I-131
3) FOR SECTIONS "A-A", "B-B", AND "C-C", PEDESTAL DETAILS AND REINFORCING DETAILS, SEE BR. SHT. NO. 15.
4) FABRICATE ALL BARS B=5 THE SAME LENGTH AND MAINTAIN 2" CONCRETE COVER AT TOP OF BARS.
5) TOP OF BACKWALL SHALL CONFORM TO CROWN OF BRIDGE DECK CROSS SECTION. SEE STD. DWG. NO. I-131 FOR DETAILS.
6) ALL PILES SHALL BE PRE-DRILLED WITH 1'-8" DIA. HOLES, BE DRIVEN TO REFUSAL AND THE HOLE FILLED WITH CLASS "A" CONCRETE.



ELEVATION

SCALE: ¼" = 1'-0"



END

SCALE: ¼" = 1'-0"

ESTIMATED QUANTITIES		
QUANTITY	UNIT	DESCRIPTION
136.9	CUBIC YARDS	SUBSTRUCTURE CONCRETE
6,903	POUNDS	STEEL REINFORCEMENT
2,993	POUNDS	STRUCTURAL STEEL

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BARGE, WAGONER, SUMNER & CANNON, INC.

DESIGN SECTION SUPERVISOR

ARCHITECT OR PROFESSIONAL ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO 11 OF32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)

BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK

STA. 25.20

MADISON COUNTY

ABUTMENT NO. 1

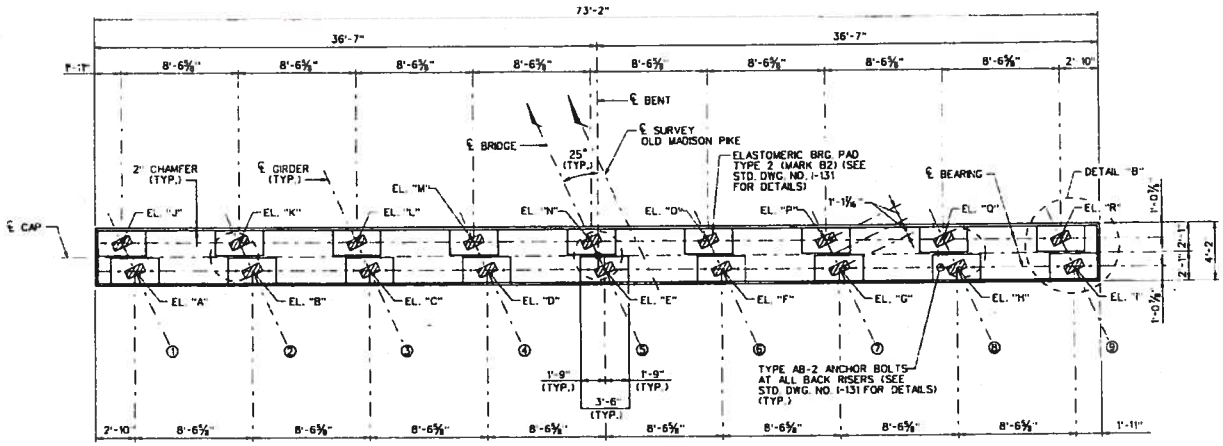
BIN: 019000

ESTIMATED QUANTITIES	DESIGNED BY: CFE	DRAWN BY: MFJ	
COMPUTED BY: CFE	CHECKED BY: CFE	DATE DRAWN: 2/22/12	
VERIFIED BY: N/A	DATE CHECKED: 12/12	SCALE: SHOWN	

$$$DESIGN FILE SPECIFICATIONS$$$

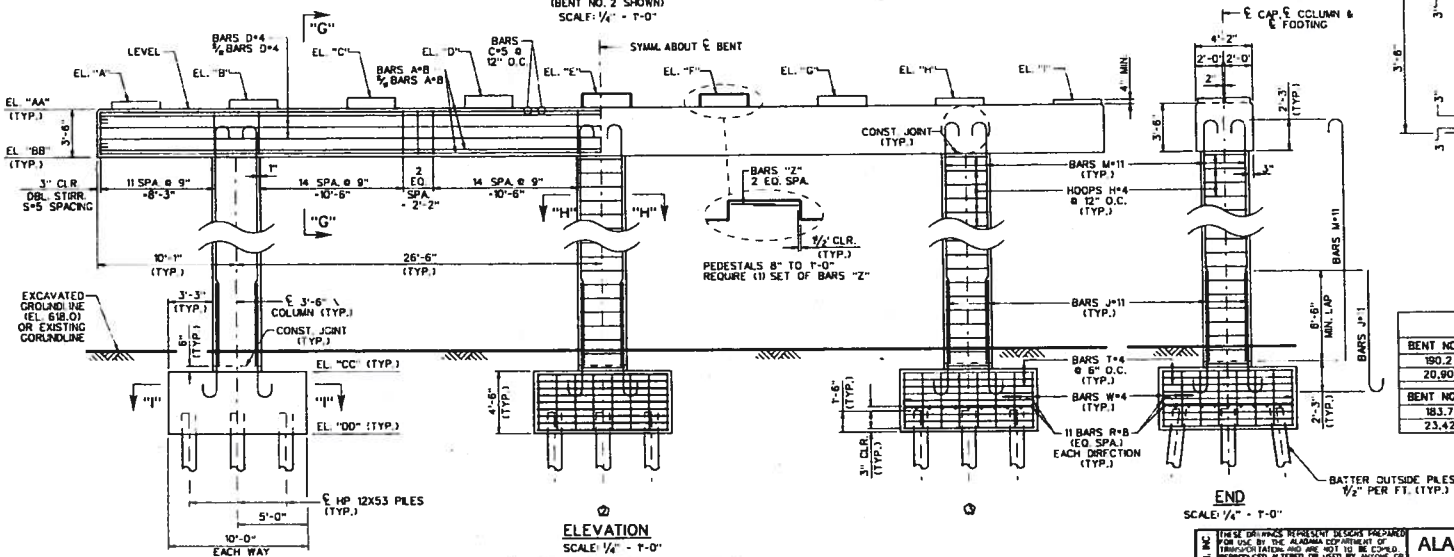
Plotted: SYSTEM DATE&TIME

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	16



PLAN

(BENT NO. 2 SHOWN)
SCALE: 1/4" = 1'-0"



ELEVATION

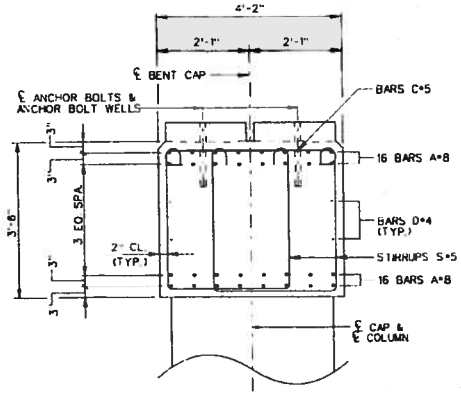
SCALE: 1/4" = 1'-0"
NOTE: FORWARD RISERS OMITTED FOR CLARITY.

END

SCALE: 1/4" = 1'-0"

NOTES

1) ELEVATIONS SHOWN IN THE PLAN VIEW ARE LOCATED AT ℄ BRG. & ℄ GIRDERS ON TOP OF PEDESTALS.
2) CONCRETE PEDESTAL TO BE POURED CONCURRENTLY WITH CAP.
3) FOR DETAILS OF ANCHOR BOLT WELLS SEE STD. DWG. NO. I-131.
4) FOR SECTIONS "H"-"H", "I"-"I", PEDESTAL DETAILS, SKETCH "B" AND REINFORCING DETAIL, SEE BR. SHT. NO. 13.
5) ADJUST TOP BARS A*8 AND PEDESTAL REINFORCEMENT AS NECESSARY TO INSURE PROPER PLACEMENT OF ANCHOR BOLTS AND WELLS.
6) PLACE ONE SET OF BARS "Z" IN PEDESTAL AT GIRDERS 3, 4, 5, 6 & 7, AHEAD AND BACK AT ALL BENTS.
7) ALL PILES SHALL BE PRE-DRILLED WITH 1'-8" DIA. HOLES, BE DRIVEN TO REFUSAL AND THE HOLE FILLED WITH CLASS "A" CONCRETE.



SECTION "G"-"G"

SCALE: 3/4" = 1'-0"

ESTIMATED QUANTITIES

BENT NO. 2	BENT NO. 3	BENT NO. 4	UNIT	DESCRIPTION
190.2	190.5	178.7	CUBIC YARDS	SUBSTRUCTURE CONCRETE
20,906	21,164	20,910	POUNDS	STEEL REINFORCEMENT
BENT NO. 5	**BENT NO. 6**	**BENT NO. 7**	**UNIT**	**DESCRIPTION**
183.7	174.5	176.5	CUBIC YARDS	SUBSTRUCTURE CONCRETE
23,429	22,844	20,669	POUNDS	STEEL REINFORCEMENT

TABLE OF BENT ELEVATIONS

LOCATION	"AA"	"BB"	"CC"	"DD"	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"K"	"L"	"M"	"N"	"O"	"P"	"Q"	"R"	MIN. PILE TIP
BENT NO. 2	629.394	625.894	616.500	612.000	629.944	630.060	630.175	630.289	630.402	630.321	630.123	629.926	629.728	629.967	630.084	630.200	630.314	630.428	630.348	630.150	629.952	629.754	572.000
BENT NO. 3	629.930	626.430	616.500	612.000	630.358	630.490	630.622	630.752	630.881	630.817	630.633	630.449	630.263	630.371	630.504	630.636	630.767	630.897	630.833	630.651	630.467	630.282	572.000
BENT NO. 4	630.212	626.712	617.500	613.000	630.546	630.695	630.843	630.989	631.135	631.086	630.919	630.751	630.582	630.549	630.699	630.847	630.994	631.141	631.093	630.927	630.760	630.591	578.000
BENT NO. 5	630.168	626.668	610.000	605.500	630.508	630.673	630.837	631.000	631.162	631.130	630.980	630.828	630.675	630.501	630.667	630.832	630.995	631.158	631.127	630.977	630.826	630.674	572.000
BENT NO. 6	629.894	626.394	611.500	607.000	630.244	630.426	630.606	630.785	630.963	630.948	630.814	630.678	630.542	630.227	630.409	630.590	630.770	630.949	630.934	630.801	630.666	630.530	577.000
BENT NO. 7	629.404	625.904	617.500	613.000	629.761	629.955	630.148	630.342	630.536	630.540	630.422	630.303	630.182	629.737	629.931	630.125	630.318	630.512	630.516	630.399	630.281	630.161	579.000

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BARGE, WAGONER, SUMMER & CANNON, INC.

DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 12 OF 32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)

BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK
STA. 25.20

MADISON COUNTY

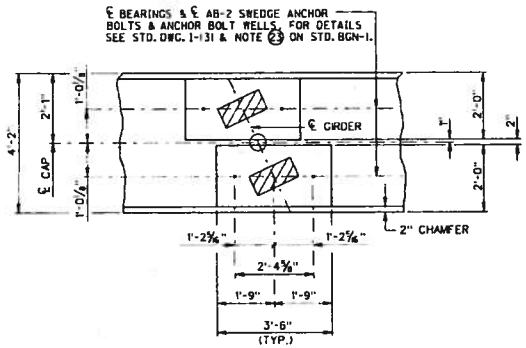
BENT NOS. 2 THRU 7

BIN: 019000

ESTIMATED QUANTITIES	DESIGNED BY: CEE	DRAWN BY: MFJ	
COMPUTED BY: CEE	CHECKED BY: CEE	DATE DRAWN: 2/20/12	
VERIFIED BY: N/A	DATE CHECKED: 6/12/12	SCALE: SHOWN	

Plotted: SYSTEM DATE/TIME=$$SDDESIGN FILE SPECIFICATION$$

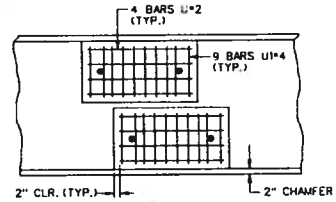
REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	77



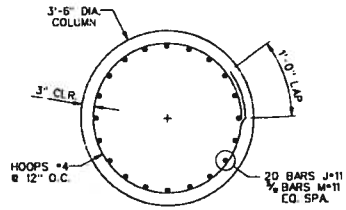
SKETCH "B"
ANCHOR BOLT LAYOUT
NOT TO SCALE

NOTES:
1) ADJUST PEDESTAL REINFORCING, BARS A#11 & BARS C#5 FOR ANCHOR BOLTS OR ANCHOR BOLT WELLS PLACEMENT.

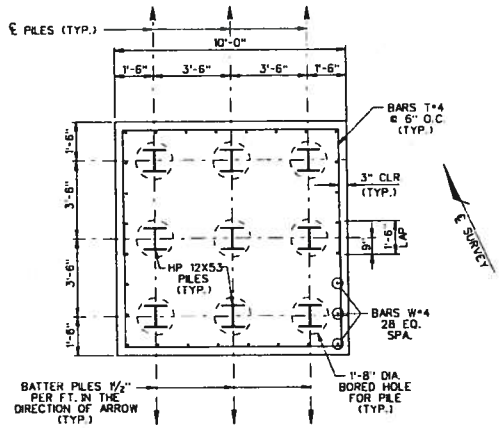
2) PEDESTALS WITHOUT ANCHOR BOLTS ARE SIMILAR



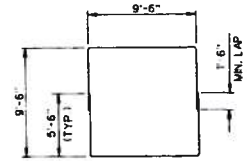
DETAIL "A"
PEDESTAL REINFORCEMENT
NOT TO SCALE



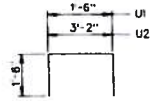
SECTION "H"-"H"
NOT TO SCALE



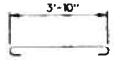
SECTION "I"-"I"
NOT TO SCALE



BARS T#4

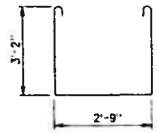


BARS TYPE U#4

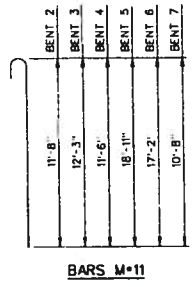


BARS C#5

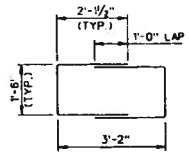
BARS J#11



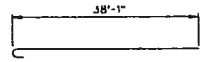
STIRRUPS S#5



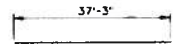
BARS M#11



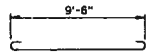
BARS Z2#4



BARS A#8



BARS D#4



BARS R#8

BARGE, WAGONER, SUMNER & CANNON, INC.

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DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 13 OF 32

PROJECT NO. STPAA-STPHV-8525 (600)
BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK
STA. 25.20

MADISON COUNTY

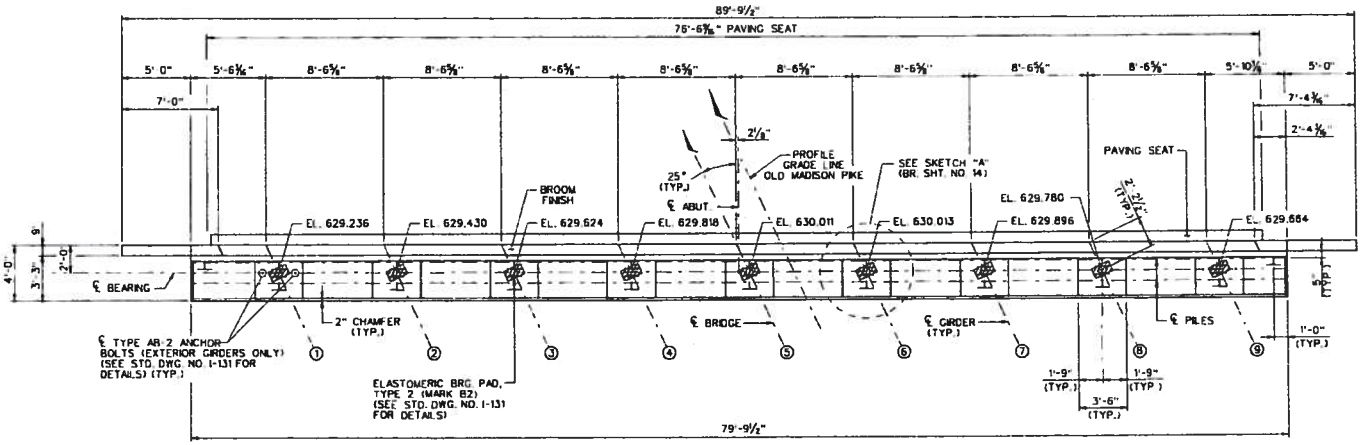
BENT DETAILS

BIN: 019000

ESTIMATED QUANTITIES	DESIGNED BY: CEE	DRAWN BY: MFJ	
COMPUTED BY: CFE	CHECKED BY: CEE	DATE: [illegible]	
VERIFIED BY: N/A	DATE CHECKED: 6/12/12	SCALE: SHOWN	

Plotted: SYSTEM DATE&TIME: $$$DESIGN FILE SPECIFICATION$$

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525(600)	2012	73

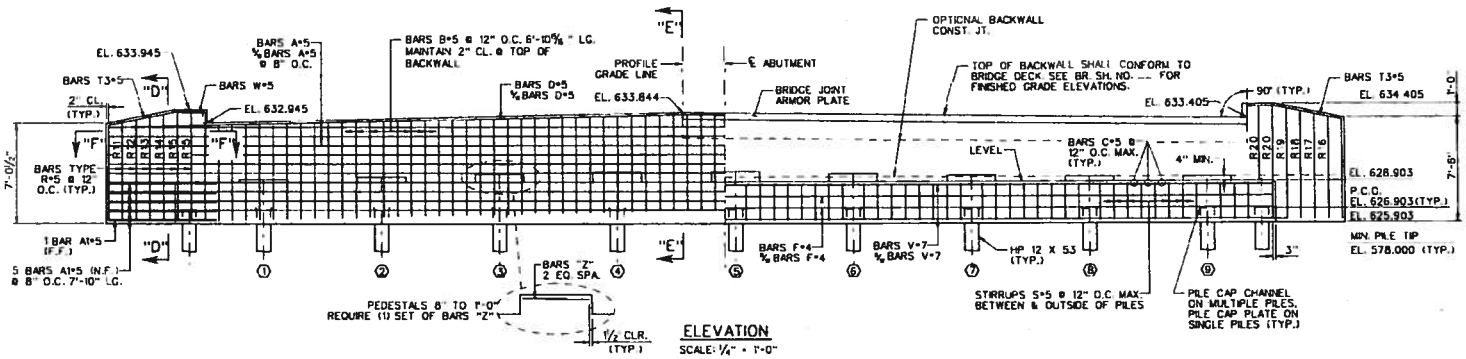


PLAN

SCALE: ¼" = 1'-0"

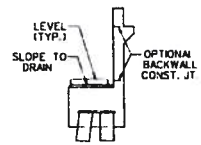
NOTES

1) CONCRETE PEDESTAL TO BE POURED CONCURRENTLY WITH CAP.
2) FOR DETAILS OF ANCHOR BOLTS, PAVING SEAT, PILE CAP PLATES, PILE CAP CHANNELS, PILE SPLICE AND BRIDGE JOINT ARMOR PLATE, SEE STD. DWG. NO. I-131.
3) FOR SECTIONS "A-A", "B-B", AND "C-C", PEDESTAL DETAILS AND REINFORCING DETAILS, SEE BR. SHT. NO. 15.
4) FABRICATE ALL BARS B=5 THE SAME LENGTH AND MAINTAIN 2" CONCRETE COVER AT TOP OF BARS.
5) TOP OF BACKWALL SHALL CONFORM TO CROWN OF BRIDGE DECK CROSS SECTION. SEE STD. DWG. NO. I-131 FOR DETAILS.
6) ALL PILES SHALL BE PRE-DRILLED WITH 1'-8" DIA. HOLES, BE DRIVEN TO REFUSAL AND THE HOLE FILLED WITH CLASS "A" CONCRETE.



ELEVATION

SCALE: ¼" = 1'-0"



END

SCALE: ¼" = 1'-0"

ESTIMATED QUANTITIES		
QUANTITY	UNIT	DESCRIPTION
127.5	CUBIC YARDS	SUBSTRUCTURE CONCRETE
6,924	POUNDS	STEEL REINFORCEMENT
2,993	POUNDS	STRUCTURAL STEEL

BARGE, MAGONER, SUMMER & CANNON, INC.

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ELECTRICAL SYSTEM SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO 14 OF32

REVISIONS

PROJECT NO. STPAA-STPHV-8525 (600)

BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK

STA. 25.20

MADISON COUNTY

ABUTMENT NO. 8

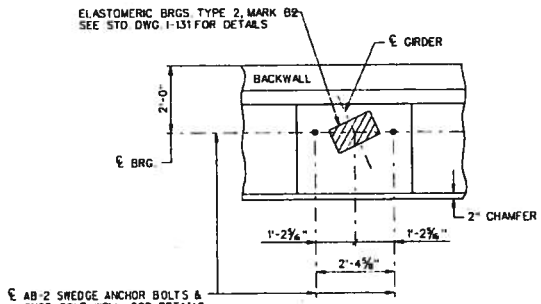
BIN: 019000

ESTIMATED QUANTITIES	DESIGNED BY: CEE	DRAWN BY: WJ	
COMPUTED BY: CEE	CHECKED BY: CEE	DATE DRAWN: 2/21/12	
VERIFIED BY: N/A	DATE CHECKED: 6/12/12	SCALE: SHOWN	

Plotted: SYSTEM DATE&TIME

$$$DESIGN FILE SPECIFICATIONS$$

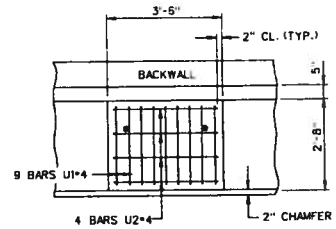
REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	11



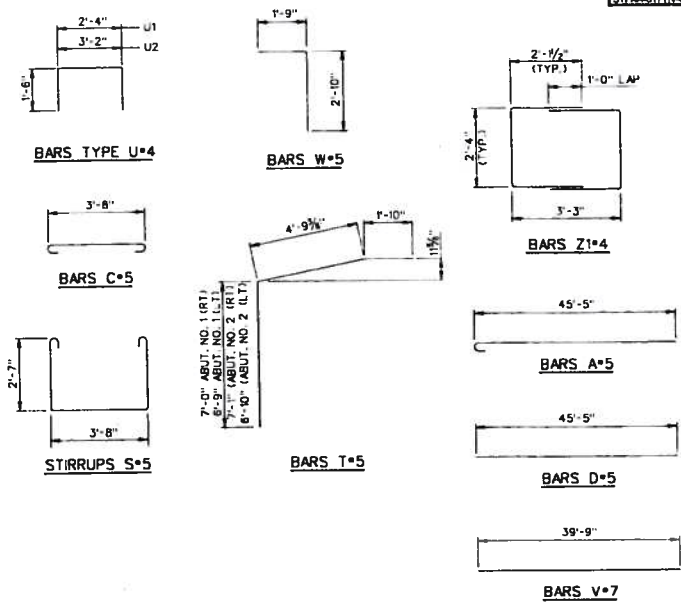
SKETCH "A"
ANCHOR BOLT LAYOUT
NOT TO SCALE

NOTES:
1) ADJUST PEDESTAL REINFORCING, BARS C*5 AND V*7 FOR ANCHOR BOLT OR ANCHOR BOLT PLACEMENT

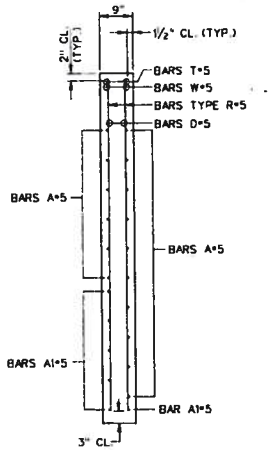
2) PEDESTALS WITHOUT ANCHOR BOLTS ARE SIMILAR.



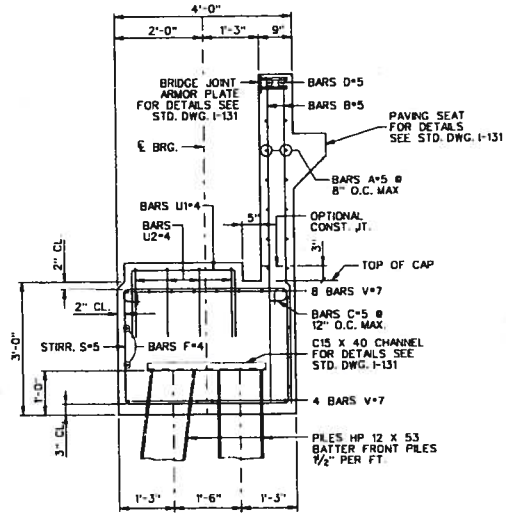
SKETCH "A"
PEDESTAL REINFORCING
NOT TO SCALE



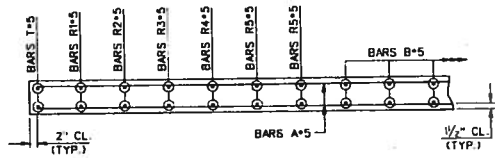
NOTE: SPLICE LENGTHS - UNLESS NOTED OTHERWISE
*4 - 1'-2"
*5 - 1'-4"
*7 - 2'-6"



SECTION "D"-"D"
SCALE: ¾"=1'-0"



SECTION "E"-"E"
SCALE: ¾"=1'-0"



SECTION "F"-"F"
SCALE: ¾"=1'-0"

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BARGE, WAGGONER, SUMNER & CANNON, INC.

DESIGN SECTION SUPERVISOR

ASSISTANT BRIDGE ENGINEER

BRIDGE ENGINEER

ALABAMA DEPARTMENT OF TRANSPORTATION

BRIDGE SHEET NO. 15 OF 32

PROJECT NO. STPAA-STPHV-8525 (600)
BRIDGE REPLACEMENT OLD MADISON PIKE OVER INDIAN CREEK
STA. 25.20

MADISON COUNTY

ABUTMENT DETAILS

ESTIMATED QUANTITIES	DESIGNED BY: CLL	DRAWN BY: MTJ	
COMPUTED BY: CEE	CHECKED BY: CEE	DATE DRAWN: 2/20/12	
VERIFIED BY: N/A	DATE CHECKED: 5/01/12	SCALE: SHOWN	

BIN: 019000

$$$DESIGN FILE SPECIFICATIONS3
Plotted: SYSTEM DATE&TIME

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525(600)	2012	10

OMI, Inc.
8181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-1
JOB LOCATION: Huntsville, AL BORING LOCATION: STA 29+45 @ 33-ft Left

DEPTH, FT	ELEVATION	SOIL CODE	GRAPHIC	DESCRIPTION	SPT-N VALUE	NATURAL MOISTURE	UNCONFINED COMP. STR.	RQD	SOIL	ROCK	DENSITY (PCF)	RQD (percent)
0				Crushed limestone gravel								
	614			SILTY CLAY with sand and gravel, 15% gravel 10% coarse to fine sand, 75% fines, low plasticity, red, very stiff, moist, fill, CL	16	21	1.6					
4				SILTY CLAY with gravel and traces of sand, 20% gravel, 5% coarse to fine sand, 75% fines, low plasticity, brown, hard, wet, alluvium, CL	100+	22	1.6					
	612			SILTY CLAY with sand and gravel, 20% gravel, 20% coarse to fine sand, 60% fines, low plasticity, tan, soft to firm, wet, alluvium, CL	4	17	—					
8					8	34	0.5					
	608			Dense chert layer								
12				SILTY CLAY with sand and gravel, 20% gravel, 20% coarse to fine sand, 60% fines, low plasticity, tan, soft, wet, residuum, CL	3	—	—					
	604			Dense chert layer								
16				SILTY CLAY with sand and gravel, 20% gravel, 20% coarse to fine sand, 60% fines, low plasticity, tan, soft, wet, residuum, CL	100+	—	—					
	600			SANDY GRAVEL with CLAY and SILT, 45% gravel, 35% coarse to fine sand, 20% fines, low plasticity, brown, hard, wet, residuum, GC								
24	596			Dense chert layer								
28	592			Auger refusal at 25-ft Began NQ coring SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, low plasticity, tannish brown, wet, residuum, GC							37	6
	588											

COMPLETION DEPTH: 50 DEPTH TO WATER/INITIAL: 6-ft OMI,Inc.
DATE: 7/7/09 DEPTH TO WATER/FINAL: 6-ft on 7/8/10 Page 1 of 2

OMI, Inc.
8181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-1
JOB LOCATION: Huntsville, AL BORING LOCATION: STA 29+45 @ 33-ft Left

DEPTH, FT	ELEVATION	SOIL CODE	GRAPHIC	DESCRIPTION	SPT-N VALUE	NATURAL MOISTURE	UNCONFINED COMP. STR.	RQD	SOIL	ROCK	DENSITY (PCF)	RQD (percent)
32											33	6
	584											
36											20	4
	580											
40											33	17
	576			LIMESTONE, gray, moderately hard, fine grained, thin bedded.								
44				SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines low plasticity, tannish brown, wet, residuum, GC							37	48
	572			LIMESTONE, gray, moderately hard, fine grained, thin bedded.								
48				Boring terminated at 50-ft								
	568											
52												
	564											
56												
	560											
60												
	556											

COMPLETION DEPTH: 50 DEPTH TO WATER/INITIAL: 6-ft OMI,Inc.
DATE: 7/7/09 DEPTH TO WATER/FINAL: 6-ft on 7/8/10 Page 2 of 2

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 12163 JOHN M. OZIER

Alabama Department of Transportation

Bridge Sheet ____ of ____

BUREAU OF MATERIALS AND TESTS

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

SIGNED

GEOTECHNICAL ENGINEER

PE:

DATE

TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	91

OSI, Inc.

6161 Research Drive, N.W. Huntsville, AL 35806

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-2

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 29+93 @ 29-ft Left

Depth, ft	Elevation	Graphic Log	Description	Blows	Recovery	RQD	Point Compressive Str.	Liquid Limit	Plasticity Index	Moisture Content, %	Percent Passing No. 200	Unit Weight
0			Crushed limestone gravel									
	610		SILTY CLAY with sand and gravel. 10% gravel, 20% coarse to fine sand, 70% fines, low plasticity, tan, firm, moist, fill, CL	6			0.75					
4				100+								
	612		SANDY GRAVEL with CLAY and SILT, 40% gravel, 35% coarse to fine sand, 25% fines, low plasticity, tan, hard, wet, alluvium, GC	100+								
6			Dense chert layer	100+								
	608		SANDY GRAVEL with CLAY and SILT, 40% gravel, 35% coarse to fine sand, 25% fines, low plasticity, tan, hard, wet, residuum, GC									
12			Dense chert layer	100+								
	604											
16			Auger refusal at 15-ft Began NQ Coring LIMESTONE, gray, moderately hard, fine grained, thin bedded									
	600		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, GC							29	7	
20			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
	596		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, wet, GC									
24			LIMESTONE, gray, moderately hard, fine grained, thin bedded							62	23	
	592		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, wet, GC									
28			LIMESTONE, gray, moderately hard, fine grained, thin bedded							62	70	
	588											

COMPLETION DEPTH: 40 DEPTH TO WATER INITIAL: 6-ft OSI, Inc.
DATE: 7/8/09 DEPTH TO WATER FINAL: 6-ft on 7/16/09 Page 1 of 2

OSI, Inc.

6161 Research Drive, N.W. Huntsville, AL 35806

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-2

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 29+93 @ 29-ft Left

Depth, ft	Elevation	Graphic Log	Description	Blows	Recovery	RQD	Point Compressive Str.	Liquid Limit	Plasticity Index	Moisture Content, %	Percent Passing No. 200	Unit Weight
32			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, GC									
	584									67	48	
36												
	580									21	17	
40			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
			Rock Core terminated at 40-ft									
	576											
44												
	572											
48												
	568											
52												
	564											
56												
	560											
60												
	556											

COMPLETION DEPTH: 40 DEPTH TO WATER INITIAL: 6-ft OSI, Inc.
DATE: 7/8/09 DEPTH TO WATER FINAL: 6-ft on 7/16/09 Page 2 of 2

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 12763 JOHN M. OZEN

Alabama Department of Transportation	
Bridge Sheet ____ of	OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.
BUREAU OF MATERIALS AND TESTS	
GEOTECHNICAL ENGINEER	FE:
	TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8325 (600)	2012	82

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-3
JOB LOCATION: Huntsville, AL BORING LOCATION: STA 28+43 @ 28 ft Left

Depth, ft	Elev.	Graphic Log	Description	Blows	Qu-tsf	Natural Moisture	Percent Compaction	Liquid Limit	Plasticity Index	Percent Passing No. 200	Compact (Density)	Rock Consistency
0			Crushed limestone gravel									
	616		SILTY CLAY with sand, 20% coarse to fine sand, 80% fines, low plasticity, orangish red, stiff, moist, fill, CL		14	21	4.5					
4			SILTY CLAY with sand, 10% coarse to fine sand, 90% fines, low plasticity, brown, firm to stiff, moist, alluvium, CL		3	22	2.0					
	612				10	17	4.5					
8					6	34	2.5					
	608		Dense chert layer									
12												
	604		SILTY CLAY with sand, 10% coarse to fine sand, 90% fines, low plasticity, brown, firm to stiff, moist, residuum, CL		100+	—	2.0					
16			Dense chert layer									
	596		SILTY CLAY with sand, 10% coarse to fine sand, 90% fines, low plasticity, brown, soft, wet, residuum, CL		3	—	—					
20			Auger refusal at 20-ft. Began NQ coring									
	584		LIMESTONE, gray, moderately hard, fine grained, thin bedded								43	40
24			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, wet, GC									
	572		LIMESTONE, gray, moderately hard, fine grained, thin bedded								60	59
28			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, wet, GC									
	559		LIMESTONE, gray, moderately hard, fine grained, thin bedded									

COMPLETION DEPTH: 45 DEPTH TO WATER INITIAL: 8.5-ft OMI, Inc.
DATE: 7/9/09 DEPTH TO WATER FINAL: 6.5-ft on 7/10/09 Page 1 of 2

OMI, Inc.
5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-3
JOB LOCATION: Huntsville, AL BORING LOCATION: STA 28+43 @ 28 ft Left

Depth, ft	Elev.	Graphic Log	Description	Blows	Qu-tsf	Natural Moisture	Percent Compaction	Liquid Limit	Plasticity Index	Percent Passing No. 200	Compact (Density)	Rock Consistency
32			grained, thin bedded									
			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, wet, GC								37	9
	564											
36												
											10	9
	552											
40												
	524										13	6
44												
			Rock Core terminated at 45-ft									
	473											
48												
	468											
52												
	464											
56												
	452											
60												
	436											

COMPLETION DEPTH: 45 DEPTH TO WATER INITIAL: 8.5-ft OMI, Inc.
DATE: 7/9/09 DEPTH TO WATER FINAL: 6.5-ft on 7/10/09 Page 2 of 2

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 12763 JOHN M. OZIER

Alabama Department of Transportation

Bridge Sheet ____ of ____

BUREAU OF MATERIALS AND TESTS

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

GEOTECHNICAL ENGINEER

PE

TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	83

OMI, Inc.

8161 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-4

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 25+63 @ 28-ft Left

Depth, Ft	Elevation	Water Level	Symbol	Description	Sample	N-Value	Moisture Content	Plastic Limit	Liquid Limit	Passing No. 200	Dolomite Content	RQD (Percent)
0				Crushed limestone gravel								
	619			SILTY CLAY with sand and gravel, 10% gravel, 40% coarse to fine sand, 50% fines, low plasticity, gray, firm to very stiff, moist, alluvium, CL		8	3.5					
4						14	1.5					
	612					16	4.5					
8												
	608			SILTY CLAY with sand and gravel, 20% gravel, 15% coarse to fine sand, 65% fines, low plasticity, tan, hard, wet, alluvium, CL		100+	—					
12				Dense chert layer								
	604			SILTY CLAY with trace of sand and gravel, 5% gravel, 15% coarse to fine sand, 80% fines, low plasticity, tan, hard, wet, residuum, CL		100+						
16				Dense chert layer								
	600			SILTY CLAY with sand, 10% coarse to fine sand, 90% fines, low plasticity, brown, firm, wet, residuum, CL								
20				Auger refusal at 18.5-ft. Began NQ Coring LIMESTONE, gray, moderately hard, fine grained, thin bedded							20	8
24	595			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								
	592										20	0
28												
	588										20	0

COMPLETION DEPTH: 43.5 DEPTH TO WATER INITIAL: Dry OMI,Inc.
DATE: 7/9/09 DEPTH TO WATER FINAL: 8-ft on 7/10/09 Page 1 of 2

OMI, Inc.

8161 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-4

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 25+63 @ 28-ft Left

Depth, Ft	Elevation	Water Level	Symbol	Description	Sample	N-Value	Moisture Content	Plastic Limit	Liquid Limit	Passing No. 200	Dolomite Content	RQD (Percent)
32												
	584			LIMESTONE, gray, moderately hard, fine grained, thin bedded								
36				SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							10	7
	572											
40				LIMESTONE, gray, moderately hard, fine grained, thin bedded							80	80
	568											
44				Rock Core terminated at 43.5-ft								
	564											
48												
	560											
52												
	556											
56												
	552											
60												
	548											

COMPLETION DEPTH: 43.5 DEPTH TO WATER INITIAL: Dry OMI,Inc.
DATE: 7/9/09 DEPTH TO WATER FINAL: 8-ft on 7/10/09 Page 2 of 2

Alabama Department of Transportation

Bridge Sheet ____ of ____

BUREAU OF MATERIALS AND TESTS

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

GEOTECHNICAL ENGINEER

PE

TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	94

OMI, Inc.
6161 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4727 JOB: Old Madison Pike Bridge LOG OF BORING: BB-5
JOB LOCATION: Huntsville, AL BORING LOCATION: STA 27+42 @ 28-ft Left

Elev. ft	Depth ft	Sample No.	Description	Blows 6-6-6	Penetr. Resistance	Moisture Content %	Liquid Limit	Plasticity Index	Passing No. 200	Unit Dry Weight	Unit Wt.
	0		SANDY GRAVEL with SILT and CLAY, 50% gravel, 30% coarse to fine sand, 20% fines, low plasticity, brown, stiff to hard, wet, alluvium, GC								
612											
	5										
606											
	10		Dense gravel layer	100+	23	—					
604											
	15		SANDY GRAVEL with SILT and CLAY, 50% gravel, 30% coarse to fine sand, 20% fines, low plasticity, brown, stiff to hard wet, alluvium, GC								
600											
	20		CLAYEY SAND with trace of SILT, 90% coarse to fine sand, 10% fines, low plasticity, tan, stiff to hard, moist, alluvium, GC	100+	—	—					
596											
	25		Dense gravel layer	100+	—	—					
592			CLAYEY SAND with trace of SILT, 90% coarse to fine sand, 10% fines, low plasticity, tan, stiff to hard, moist, alluvium, SC								
	30		Auger refusal at 22-ft. Began NQ Coring SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							62	8
588											
	35									42	0
584											

COMPLETION DEPTH: 47 DEPTH TO WATER/INITIAL: 1-ft OMI,Inc.
DATE: 7/26/03 DEPTH TO WATER/FINAL: 1-ft on 7/31/03 Page 1 of 2

OMI, Inc.
6161 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4727 JOB: Old Madison Pike Bridge LOG OF BORING: BB-5
JOB LOCATION: Huntsville, AL BORING LOCATION: STA 27+42 @ 28-ft Left

Elev. ft	Depth ft	Sample No.	Description	Blows 6-6-6	Penetr. Resistance	Moisture Content %	Liquid Limit	Plasticity Index	Passing No. 200	Unit Dry Weight	Unit Wt.
	40		LIMESTONE, gray, moderately hard, fine grained, thin bedded								
568			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							47	18
	45		LIMESTONE, gray, moderately hard, fine grained, thin bedded								
564			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							53	40
	50		LIMESTONE, gray, moderately hard, fine grained, thin bedded								
560										67	67
	55		Rock Core terminated at 47-ft								
556											
	60										
552											

COMPLETION DEPTH: 47 DEPTH TO WATER/INITIAL: 1-ft OMI,Inc.
DATE: 7/26/03 DEPTH TO WATER/FINAL: 1-ft on 7/31/03 Page 2 of 2

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 12763 JOHN M. O'ZIER

Alabama Department of Transportation

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BUREAU OF MATERIALS AND TESTS

GEOTECHNICAL ENGINEER

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

PE

TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	95

GMI, Inc.

5101 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-6

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 27+63 @ 22-ft Left

Depth, Ft	Elevation	Water Level	Symbol	Description	Blows	Qu (tsf)	Qp (tsf)	Moisture Content (%)	Liquid Limit	Plasticity Index	Passing No. 200	Unconfined Compressive Strength	RQD
0				Topsoil									
				SILTY CLAY with trace of sand, 5% fine sand, 95% fines, low plasticity, brown, firm to stiff, moist, alluvium, CL	6	1.0	1.5						
4	615				11	1.5	2.5						
8	612												
				SILTY CLAY with sand and gravel, 20% gravel, 15% coarse to fine sand, 65% fines, low plasticity, brown, soft, wet, alluvium, CL	3	0.5	—						
12	608			Dense chert layer									
				SILTY CLAY with sand and gravel, 20% gravel, 15% coarse to fine sand, 65% fines, low plasticity, brown, stiff to hard, wet, residuum, CL	100+	—	—						
16	604			Dense chert layer									
				SILTY CLAY with sand and gravel, 20% gravel, 15% coarse to fine sand, 65% fines, low plasticity, brown, stiff to hard, wet, residuum, CL	100+	—	—						
20	600			Dense chert layer									
				SILTY CLAY with sand and gravel, 20% gravel, 15% coarse to fine sand, 65% fines, low plasticity, brown, stiff to hard, wet, residuum, CL									
24	596			Auger refusal at 23-ft. Began NQ Coring SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								17	0
28	592											5	5

COMPLETION DEPTH: 43 DEPTH TO WATER INITIAL: 5-ft GMI,Inc.

DATE: 7/11/09 DEPTH TO WATER FINAL: 5-ft on 7/22/09 Page 1 of 2

GMI, Inc.

5101 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-6

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 27+63 @ 22-ft Left

Depth, Ft	Elevation	Water Level	Symbol	Description	Blows	Qu (tsf)	Qp (tsf)	Moisture Content (%)	Liquid Limit	Plasticity Index	Passing No. 200	Unconfined Compressive Strength	RQD
32	588												
				LIMESTONE, gray, moderately hard, fine grained, thin bedded									
36	584			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								63	35
				LIMESTONE, gray, moderately hard, fine grained, thin bedded									
40	580			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								63	67
				LIMESTONE, gray, moderately hard, fine grained, thin bedded									
44	576			Rock Core terminated at 43-ft									
48	572												
52	568												
56	564												
60	560												

COMPLETION DEPTH: 43 DEPTH TO WATER INITIAL: 5-ft GMI,Inc.

DATE: 7/11/09 DEPTH TO WATER FINAL: 5-ft on 7/22/09 Page 2 of 2

Alabama Department of Transportation

Bridge Sheet ____ of ____

BUREAU OF MATERIALS AND TESTS

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

GEOTECHNICAL ENGINEER PE

TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	86

OMI, Inc.

8181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-7

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 29+43 @ 26-ft Left

Elev. ft	Sample	Blows	Description
0			Topsoil
	619+		SANDY SILTY CLAY, 10% gravel, 20% coarse to fine sand, 70% fines, low plasticity, brown, firm to stiff, moist, alluvium, CL
8	612+		CLAYEY SAND with gravel and silt, 15% gravel, 45% coarse to fine sand, 40% fines, low plasticity, brown, wet, alluvium, SC
13	607+		
18	602+		
			Dense chert layer
23	597+		GRAVELLY CLAYEY SAND, 30% gravel, 40% coarse to fine sand, 30% fines, low plasticity, tan, firm to hard, wet, residuum, SC
28	592+		Auger refusal at 23-ft. Began NQ Coring
			LIMESTONE, brownish gray, moderately hard, fine grained, thin bedded
			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC
			LIMESTONE, gray, moderately hard, fine grained, thin bedded
			SANDY CLAYEY GRAVEL, 60% gravel,

Elev. ft	Sample	Blows	Description
33	587+		20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC
			LIMESTONE, gray, moderately hard, fine grained, thin bedded
38	582+		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC
			LIMESTONE, gray, moderately hard, fine grained, thin bedded
43	577+		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC
			LIMESTONE, gray, moderately hard, fine grained, thin bedded
48	572+		Rock core terminated at 43-ft
53	567+		
58	562+		
63	557+		

COMPLETION DEPTH: 43 DEPTH TO WATER INITIAL: 6.6-FT OMI, Inc.
DATE: 9-14-07 DEPTH TO WATER FINAL: 7-FT Page 1 of 2

ALABAMA REGISTERED PROFESSIONAL ENGINEER JOHN M. OZIER

Alabama Department of Transportation

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BUREAU OF MATERIALS AND TESTS

GEOTECHNICAL ENGINEER

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

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TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8323(600)	2012	87

OMI, Inc.

8181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-8

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 28+96 @ 23-ft Left

Depth (ft)	Elevation (ft)	Water Level	Graphic	Description	Symbol	N-Value	Natural Moisture (%)	Density Compaction (%)	Shear Strength (ksf)	Penetrometer (ksf)	Percent Passing No. 200	Liquid Limit (%)	Plasticity Index (%)
0	628			Topsoil									
				SILTY CLAY with sand, 20% coarse to fine sand, 80% fines, low plasticity, tan, firm, moist, alluvium, CL		8	21	2.0					
4	616					9	21	2.75					
8	612			GRAVELLY SAND with SILT and CLAY, 30% gravel, 55% coarse to fine sand, 15% fines, low plasticity, tan, stiff, moist, alluvium, SC		14	24	4.5					
12	608			Dense gravel layer									
16	604			GRAVELLY SAND with SILTY CLAY, 30% gravel, 55% coarse to fine sand, 15% fines, low plasticity, tan, stiff to hard, wet, alluvium, SC		153+	—	—					
20	600			SAND with CLAY, 95% coarse to fine sand, 5% fines, no plasticity, tan, very dense, moist, alluvium, SP		100+	—	—					
24	596			Auger refusal at 23-ft. Began NQ Coring SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							33	8
28	592										20	6

COMPLETION DEPTH: 47 DEPTH TO WATER INITIAL: 13.5-ft OMI,Inc.
DATE: 7/20/09 DEPTH TO WATER FINAL: 7-ft on 7/21/09 Page 1 of 3

OMI, Inc.

8181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-8

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 28+96 @ 23-ft Left

Depth (ft)	Elevation (ft)	Water Level	Graphic	Description	Symbol	N-Value	Natural Moisture (%)	Density Compaction (%)	Shear Strength (ksf)	Penetrometer (ksf)	Percent Passing No. 200	Liquid Limit (%)	Plasticity Index (%)
32	588			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
36	584			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet GC							27	10	
				LIMESTONE, gray, moderately hard, fine grained, thin bedded									
40	580			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							45	8	
				LIMESTONE, gray, moderately hard, fine grained, thin bedded									
44	576			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							106	47	
48	572			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
				Rock Core terminated at 47-ft									
52	568												
56	564												
60	560												

COMPLETION DEPTH: 47 DEPTH TO WATER INITIAL: 13.5-ft OMI,Inc.
DATE: 7/20/09 DEPTH TO WATER FINAL: 7-ft on 7/21/09 Page 2 of 3

ALABAMA REGISTERED No. 12783 PROFESSIONAL ENGINEER JOHN M. OZIER

Alabama Department of Transportation

Bridge Sheet ____ of ____

BUREAU OF MATERIALS AND TESTS

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

GEOTECHNICAL ENGINEER

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TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8323 (600)	2012	33

OMI, Inc.
5121 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BR-6
JOB LOCATION: Huntsville, AL BORING LOCATION: STA 29+00 @ 28-ft Right

Elev., ft	Depth, ft	Water Levels	Graphic	Description	Sample	Blows, Sampler	Blows, Sampler	Percent Recovery	Liquid Limit	Moisture Content	Unconfined Compressive Strength	Dry Density
	0			Topsoil								
				GRAVELLY SAND with SILT and CLAY, 35% gravel, 40% coarse to fine sand, 25% fines, low plasticity, gray, tan, stiff, wet, alluvium, SM	1	18	—					
	4	616+			18	13	—					
				SILTY SAND with GRAVEL and CLAY, 15% gravel, 50% coarse to fine sand, 35% fines, low plasticity, tan, stiff, moist, alluvium, SM								
	8	612+			14	12	—					
				SILTY SAND with GRAVEL and CLAY, 20% gravel, 40% coarse to fine sand, 40% fines, low plasticity, tan, hard, moist, alluvium, SM								
	12	608+		Dense gravel layer								
				SILTY SAND with GRAVEL and CLAY, 20% gravel, 40% coarse to fine sand, 40% fines, low plasticity, tan, hard, moist, alluvium, SM	100+	—	—					
	16	604+										
	20	600+			100+	—	—					
				Auger refusal at 20-ft Began NQ Coring								
	24	596+		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							67	7
				LIMESTONE, gray, moderately hard, fine grained, thin bedded								
	28	592+		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							13	6

COMPLETION DEPTH: 64 DEPTH TO WATER(INITIAL): 8.5-ft OMI,Inc.
DATE: 7/13/99 DEPTH TO WATER(FINAL): 8.5-ft on 7/13/99 Page 1 of 2

OMI, Inc.
5121 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BR-6
JOB LOCATION: Huntsville, AL BORING LOCATION: STA 29+00 @ 28-ft Right

Elev., ft	Depth, ft	Water Levels	Graphic	Description	Sample	Blows, Sampler	Blows, Sampler	Percent Recovery	Liquid Limit	Moisture Content	Unconfined Compressive Strength	Dry Density
	32	588+									20	9
	36	584+									15	6
	40	580+									40	29
	44	576+		LIMESTONE, gray, moderately hard, fine grained, thin bedded								
				SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							46	30
	48	572+		LIMESTONE, gray, moderately hard, fine grained, thin bedded								
				SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							83	67
	52	568+		LIMESTONE, gray, moderately hard, fine grained, thin bedded								
	56	564+		Rock Core terminated								
	60	560+										

COMPLETION DEPTH: 64 DEPTH TO WATER(INITIAL): 8.5-ft OMI,Inc.
DATE: 7/13/99 DEPTH TO WATER(FINAL): 8.5-ft on 7/13/99 Page 2 of 2

ALABAMA REGISTERED PROFESSIONAL ENGINEER JOHN M. OZIER

Alabama Department of Transportation	
Bridge Sheet ____ of ____	
BUREAU OF MATERIALS AND TESTS	OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.
GEOTECHNICAL ENGINEER	PE
	TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (900)	2012	89

OMI, Inc.
9181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 9737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-10
JOB LOCATION: Huntsville, AL BORING LOCATION: STA 26+69 @ 28-ft Right

Depth, ft	Elev. ft	Graphic Log	Description	Blows/6 in	N-Value	Moisture Content, %	Dry Density, pcf	Liquid Limit	Plasticity Index	Percent Passing No. 200	Unconfined Compressive Strength, ksf	RQD, percent
0	610+		GRAVELLY SAND with SILT and CLAY, 35% gravel, 40% coarse to fine sand, 25% fines, low plasticity, gray, tan, very stiff, wet, alluvium, SC									
4	612+			17	13	—						
8	608+		SILTY SAND with GRAVEL and CLAY, 15% gravel, 50% coarse to fine sand, 35% fines, low plasticity, tan, stiff, wet, alluvium, SC	12	63	—						
12	604+		SILTY SAND with GRAVEL and CLAY, 20% gravel, 40% coarse to fine sand, 40% fines, low plasticity, tan, stiff to hard, wet, alluvium, SC									
			Dense gravel layer	100+	—	1.8						
16	600+		SILTY SAND with GRAVEL and CLAY, 20% gravel, 40% coarse to fine sand, 40% fines, low plasticity, tan, stiff to hard, wet, alluvium, SC									
			Dense gravel layer	100+	—	—						
20	596+		Auger refusal at 20-ft. Began NQ Coring LIMESTONE, gray, moderately hard, fine grained, thin bedded									
24	592+		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							22	6	
			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
30	586+									70	67	
			SANDY CLAYEY GRAVEL, 60% gravel,									

COMPLETION DEPTH: 50 DEPTH TO WATER/INITIAL: 6.5-ft CORE,Inc.
DATE: 7/23/09 DEPTH TO WATER/FINAL: 6-ft on 7/24/09 Page 1 of 2

OMI, Inc.
9181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 9737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-10
JOB LOCATION: Huntsville, AL BORING LOCATION: STA 26+69 @ 28-ft Right

Depth, ft	Elev. ft	Graphic Log	Description	Blows/6 in	N-Value	Moisture Content, %	Dry Density, pcf	Liquid Limit	Plasticity Index	Percent Passing No. 200	Unconfined Compressive Strength, ksf	RQD, percent
32	584+		20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							25	6	
			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
36	580+		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							49	17	
40	576+		LIMESTONE, gray, moderately hard, fine grained, thin bedded									
			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							23	8	
44	572+		LIMESTONE, gray, moderately hard, fine grained, thin bedded									
48	568+									20	67	
			Rock Core terminated at 50-ft									
52	564+											
56	560+											
60	556+											

COMPLETION DEPTH: 50 DEPTH TO WATER/INITIAL: 6.5-ft CORE,Inc.
DATE: 7/23/09 DEPTH TO WATER/FINAL: 6-ft on 7/24/09 Page 2 of 2

Alabama Department of Transportation

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BUREAU OF MATERIALS AND TESTS

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

GEOTECHNICAL ENGINEER

PE

TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	90

OMI, Inc.

5181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-11

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 28+60 @ 25-ft Right

Depth, ft	Elevation	Soil Symbol	Description	Sample	Blows per 6 in.	Blows per foot	Recovery, %	Liquid Limit	Plasticity Index	Passing No. 200	Moisture Content, %	Dry Density, pcf
0			Topsoil		11	29	—					
	610		SILTY CLAY with SAND and GRAVEL, 10% gravel, 20% coarse to fine sand, 70% fines, low plasticity, brown, stiff, moist, alluvium, CL									
5					14	17	—					
	612											
8			CLAYEY SAND with SILT and GRAVEL, 20% gravel, 40% coarse to fine sand, 40% fines, low plasticity, tan, very stiff to hard, moist, alluvium, SC		28	46	—					
	608											
13												
	604				100+	—	—					
18												
	598		Dense chert layer									
20			CLAYEY SAND with SILT and GRAVEL, 20% gravel, 40% coarse to fine sand, 40% fines, low plasticity, tan, very stiff to hard, moist, residuum, SC		100+	—	—					
	596		Intermittent dense gravel layers									
24												
	592		Auger refusal at 25-ft Begin NQ Coring LIMESTONE, gray, moderately hard, fine grained, thin bedded									
30			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								12	7
	588											

COMPLETION DEPTH: 60 DEPTH TO WATER INITIAL: Dry OMI, Inc.

DATE: 7/23/08 DEPTH TO WATER FINAL: N/A Page 1 of 2

OMI, Inc.

5181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-11

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 28+60 @ 25-ft Right

Depth, ft	Elevation	Soil Symbol	Description	Sample	Blows per 6 in.	Blows per foot	Recovery, %	Liquid Limit	Plasticity Index	Passing No. 200	Moisture Content, %	Dry Density, pcf
32											26	8
	584											
36			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
	580		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								22	22
40			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
	576		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								37	17
44			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
	572		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								59	60
48			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
52			Rock Core terminated at 50-ft									
	564											
60												
	552											
68												
	536											

COMPLETION DEPTH: 60 DEPTH TO WATER INITIAL: Dry OMI, Inc.

DATE: 7/23/08 DEPTH TO WATER FINAL: N/A Page 2 of 2

ALABAMA REGISTERED NO. 12763 PROFESSIONAL ENGINEER JOHN M. OZIER

Alabama Department of Transportation

Bridge Sheet ____ of ____

BUREAU OF MATERIALS AND TESTS

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

GEOTECHNICAL ENGINEER

PE:

TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8323 (600)	2012	91

OMI, Inc.

5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-12

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 26+50 @ 29-ft Right

Depth, ft	Elevation	Water Level	Description	Blows/6	Penetration Resistance	Percent Recovery	RQD
0			Topsoil with crushed limestone gravel				
4	614		SILTY CLAY with SAND and GRAVEL, 10% gravel, 20% coarse to fine sand, 70% fines, low plasticity, brown, firm, moist, alluvium, CL	9	17	4.5	
8	612		CLAYEY SAND with SILT and GRAVEL, 20% gravel, 40% coarse to fine sand, 40% fines, low plasticity, tan, very stiff to hard, wet, residuum, SC	163+	48	—	
12	608			100+	—	—	
16	604			15	—	—	
20	600		Auger refusal at 20-ft Switched to roller cone				
24	596			100+	—	—	
28	592		CLAYEY SAND with SILT and GRAVEL, 20% gravel, 40% coarse to fine sand, 40% fines, low plasticity, tan, very soft to firm, wet, residuum, SC	8	—	—	

COMPLETION DEPTH: 52 DEPTH TO WATERINITIAL: 8-ft OMI,Inc.
DATE: 7/27/09 DEPTH TO WATERFINAL: 8-ft on 7/27/09 Page 1 of 2

OMI, Inc.

5151 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-12

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 26+50 @ 29-ft Right

Depth, ft	Elevation	Water Level	Description	Blows/6	Penetration Resistance	Percent Recovery	RQD
32	588			2	—	—	
36	584		Auger refusal at 37-ft Began NQ Coring LIMESTONE, gray, moderately hard, fine grained, thin bedded				
40	580		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC			43	26
44	576		LIMESTONE, gray, moderately hard, fine grained, thin bedded SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC			62	48
48	572		LIMESTONE, gray, moderately hard, fine grained, thin bedded			88	80
52	568		Rock Core terminated at 52-ft				
56	564						
60	560						

COMPLETION DEPTH: 52 DEPTH TO WATERINITIAL: 8-ft OMI,Inc.
DATE: 7/27/09 DEPTH TO WATERFINAL: 8-ft on 7/27/09 Page 2 of 2

ALABAMA REGISTERED No. 12763 PROFESSIONAL ENGINEER JOHN M. OZIER

Alabama Department of Transportation

Bridge Sheet ____ of ____

BUREAU OF MATERIALS AND TESTS

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

GEOTECHNICAL ENGINEER

PE

TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525(600)	2012	92

OMI, Inc.

9121 Research Drive, N.W. Huntsville, AL 35806

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-13

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 27+00 @ 25-ft Right

Depth, ft	Elevation	Soil Type	Graphic	Description	Blows	% Fines	Natural Moisture	Dry Density, pcf	Sieve Analysis
0	616			Topsoil					
				SILTY CLAY with SAND and GRAVEL, 15% gravel size chert, 20% fine sand, 65% fines, low plasticity, brown, firm to very stiff, moist, alluvium, CL	9	20	2		
4	612				18	17	4.5		
8	608			SANDY SILTY CLAY with GRAVEL, 15% gravel, 30% fine to coarse sand, 55% fines, low plasticity, tan, very stiff, moist, residuum, CL	27	48	1.5		
				Dense chert layer.					
12	604			SANDY SILTY CLAY with GRAVEL, 15% gravel, 30% fine to coarse sand, 55% fines, low plasticity, tan, very stiff, moist, residuum, CL	100+	—	—		
16	600			Dense chert layer.					
				SANDY SILTY CLAY with GRAVEL, 15% gravel, 30% fine to coarse sand, 55% fines, low plasticity, tan, very stiff, moist, residuum, CL					
20	596			Dense chert layer.					
				Auger refusal at 20-ft. Began NQ Coring					
				LIMESTONE, gray, moderately hard, fine grained, thin bedded					
				SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC				38	25
24	592								
				LIMESTONE, gray, moderately hard, fine grained, thin bedded					
28	588			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC				82	23

COMPLETION DEPTH: 46 DEPTH TO WATER/INITIAL: Dry OMI,Inc.

DATE: 7/27/09 DEPTH TO WATER/FINAL: 5-ft on 7/28/09 Page 1 of 2

OMI, Inc.

9121 Research Drive, N.W. Huntsville, AL 35806

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-13

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 27+00 @ 25-ft Right

Depth, ft	Elevation	Soil Type	Graphic	Description	Blows	% Fines	Natural Moisture	Dry Density, pcf	Sieve Analysis
32	584							10	9
36	580							7	6
40	576			LIMESTONE, gray, moderately hard, fine grained, thin bedded					
								55	50
44	572			Rock Core terminated at 45-ft					
48	568								
52	564								
56	560								
60	556								

COMPLETION DEPTH: 46 DEPTH TO WATER/INITIAL: Dry OMI,Inc.

DATE: 7/27/09 DEPTH TO WATER/FINAL: 5-ft on 7/28/09 Page 2 of 2

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 12763 JOHN M. OZIER

Alabama Department of Transportation

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BUREAU OF MATERIALS AND TESTS

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

GEOTECHNICAL ENGINEER

PE

TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (601)	2012	43

OMI, Inc.

6161 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-14

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 27+56 @ BB-8 Right

Depth, ft	Elev. ft	Water Level	Symbol	Description	Blows 0-6 in	Blows 6-12 in	Blows 12-18 in	Angle Load	Plasticity Index	Moisture Content, %	Unconfined Strength	RQD
0				SILTY SAND with GRAVEL and CLAY, 10% gravel, 70% coarse to fine sand, 20% fines, low plasticity, tan, stiff, moist, alluvium, SM	12	12	—					
	612											
5				SILTY CLAY with SAND and GRAVEL, 10% gravel, 20% coarse to fine sand, 70% fines, low plasticity, brown, stiff to hard, moist, alluvium, CL	100+	13	—					
	605											
8				Dense gravel layer	100+	48	—					
	604											
12				SILTY CLAY with SAND and GRAVEL, 10% gravel 20% fine to coarse sand, 70% fines, low plasticity, brown, stiff to hard, moist, alluvium, CL	100+	—	—					
15	620											
20	599											
22	593			Augur refusal at 22-ft Began NQ Coring LIMESTONE, gray, moderately hard, fine grained, thin bedded								
24				SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC						17	0	
30	569											
35										23	4	
	584											

COMPLETION DEPTH: 42 DEPTH TO WATERINITIAL: Dry OMI,Inc.
DATE: 7/28/09 DEPTH TO WATERFINAL: 3-ft on 7/28/09 Page 1 of 2

OMI, Inc.

6161 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4737 JOB: Old Madison Pike Bridge LOG OF BORING: BB-14

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 27+56 @ BB-8 Right

Depth, ft	Elev. ft	Water Level	Symbol	Description	Blows 0-6 in	Blows 6-12 in	Blows 12-18 in	Angle Load	Plasticity Index	Moisture Content, %	Unconfined Strength	RQD
35				LIMESTONE, gray, moderately hard, fine grained, thin bedded								
	589			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC						57	40	
38				LIMESTONE, gray, moderately hard, fine grained, thin bedded								
	573											
40				SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC						57	70	
	572			LIMESTONE, gray, moderately hard, fine grained, thin bedded								
44				Rock Core terminated at 42-ft								
	552											
48												
	534											
52												
	509											
55												
	489											
60												

COMPLETION DEPTH: 42 DEPTH TO WATERINITIAL: Dry OMI,Inc.
DATE: 7/28/09 DEPTH TO WATERFINAL: 3-ft on 7/28/09 Page 2 of 2

ALABAMA REGISTERED No. 12763 PROFESSIONAL ENGINEER JOHN M. OZIER

Alabama Department of Transportation	
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BUREAU OF MATERIALS AND TESTS	OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.
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REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525 (600)	2012	94

OMI, Inc.

8181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4727 JOB: Old Madison Pike Bridge LOG OF BORING: BB-16

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 28+00 @ 25-ft Right

Depth, ft	Elevation	Water Level	Graphic	Description	Symbol	% Fines	Natural Moisture Content	Atterberg Limits	Unconfined Compressive Strength	Standard Penetration Blows	Rock Quality Designation (RQD)
0				SANDY GRAVEL with SILT and CLAY, 50% gravel, 30% coarse to fine sand, 20% fines, low plasticity, brown to tan, stiff to hard, moist, alluvium, GC							
4	616					11	12	—			
8	612										
				Dense gravel layer		100+	18	—			
12	608			SANDY GRAVEL with SILT and CLAY, 50% gravel, 30% coarse to fine sand, 20% fines, low plasticity, brown to tan, stiff to hard, moist, alluvium, GC							
				Dense gravel layer							
				SANDY GRAVEL with SILT and CLAY, 50% gravel, 30% coarse to fine sand, 20% fines, low plasticity, brown to tan, stiff to hard, moist, alluvium, GC							
16	604			Dense gravel layer							
				Auger refusal at 15-ft. Began NQ Coring						53	7
				LIMESTONE, gray, moderately hard, fine grained, thin bedded							
20	600			SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC							
24	596									27	9
28	592									38	8
32	588										

COMPLETION DEPTH: 46 DEPTH TO WATER INITIAL: Dry OMI, Inc.

DATE: 7/29/09 DEPTH TO WATER FINAL: 8-ft on 7/29/10 Page 1 of 2

OMI, Inc.

8181 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4727 JOB: Old Madison Pike Bridge LOG OF BORING: BB-16

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 28+00 @ 25-ft Right

Depth, ft	Elevation	Water Level	Graphic	Description	Symbol	% Fines	Natural Moisture Content	Atterberg Limits	Unconfined Compressive Strength	Standard Penetration Blows	Rock Quality Designation (RQD)
36	584									30	0
40	580									30	0
44	576			LIMESTONE, gray, moderately hard, fine grained, thin bedded						86	65
				Rock Core terminated at 45-ft							
48	572										
52	568										
56	564										
60	560										

COMPLETION DEPTH: 46 DEPTH TO WATER INITIAL: Dry OMI, Inc.

DATE: 7/29/09 DEPTH TO WATER FINAL: 8-ft on 7/29/10 Page 2 of 2

ALABAMA REGISTERED No. 12753 PROFESSIONAL ENGINEER JOHN M. OZIER

Alabama Department of Transportation

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BUREAU OF MATERIALS AND TESTS

OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

GEOTECHNICAL ENGINEER

PE:

TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8325(603)	2017	94A

OMI, Inc.

5161 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4727 JOB: Old Madison Pike Bridge LOG OF BORING: BB-16

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 29+60 @ 29-ft Rt/Lt

Elev. ft	Depth ft	Sym.	Description	Blows	Pocket	Natural Moisture	Dry Density	Liquid Limit	Plasticity Index	Passing No. 200	Compressive Strength	Age (years)
			Topsoil									
	4		SILTY SAND with CLAY, 60% fine to coarse sand, 20% fines, low plasticity, gray, firm, moist, alluvium, SM		8	12	—					
	8		GRAVELLY SAND with SILT and CLAY, 20% gravel, 60% coarse to fine sand, 20% fines, low plasticity, tan, hard, moist residuum, SC		100+	12	—					
	17		SILTY GRAVEL with SAND and CLAY, 60% gravel, 10% coarse to fine sand, 30% fines, low plasticity, brown, very stiff, moist, residuum, GM		19		—					
	18		Auger refusal at 15-ft Began NQ Coring LIMESTONE, gray, moderately hard, fine grained, thin bedded								23	18
	20		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								43	39
			LIMESTONE, gray, moderately hard, fine grained, thin bedded									
	24		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								21	6
	28		LIMESTONE, gray, moderately hard, fine								47	37

COMPLETION DEPTH: 28 DEPTH TO WATERINITIAL: Dry OMI,Inc.
DATE: 7/24/09 DEPTH TO WATERFINAL: 8-ft on 7/31/09 Page 1 of 2

OMI, Inc.

5161 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4727 JOB: Old Madison Pike Bridge LOG OF BORING: BB-16

JOB LOCATION: Huntsville, AL BORING LOCATION: STA 29+60 @ 29-ft Rt/Lt

Elev. ft	Depth ft	Sym.	Description	Blows	Pocket	Natural Moisture	Dry Density	Liquid Limit	Plasticity Index	Passing No. 200	Compressive Strength	Age (years)
			grained, thin bedded									
	30		SANDY CLAYEY GRAVEL, 60% gravel, 20% coarse to fine sand, 20% fines, no plasticity, tannish brown, residuum, wet, GC								78	43
	35		LIMESTONE, gray, moderately hard, fine grained, thin bedded									
			Rock Core terminated at 35-ft									
	40											
	45											
	50											
	55											

COMPLETION DEPTH: 28 DEPTH TO WATERINITIAL: Dry OMI,Inc
DATE: 7/24/09 DEPTH TO WATERFINAL: 8-ft on 7/31/09 Page 2 of 2

ALABAMA REGISTERED No. 12763 PROFESSIONAL ENGINEER JOHN M. OZIER

Alabama Department of Transportation	
Bridge Sheet of	OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.
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	TEST BORING RECORD

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER
STPAA-STPHV-8525(600)	2012	94-B

DNL, Inc.

9131 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4727 JOB: Old Madison Pike Bridge LOG OF BORING: CB-17

JOB LOCATION: Huntsville, AL BORING LOCATION: 216.94+40 19-ft Right

Depth, ft	Elevation	USCS Cl.	Graphic	Description	Sample	Blows	Qu, tsf	Water Content, %	Liquid Limit	Plasticity Index	Percent Passing No. 200	Unit Weight	Unit Cohesion
				Asphalt									
				Base									
				FILL, SILTY SANDY CLAY, 30% coarse to fine sand, 70% fines, low plasticity, brown, wet, firm, FILL, CL		7	10	0.25					
4						6	23	1.25					
				SILTY CLAY with SAND, 15% medium to fine sand, 85% fines, low plasticity, grayish brown, firm, saturated, alluvium, CL		6	28	0.75					
8						9	34	0.25					
12				SILTY GRAVELLY CLAY with SAND, 20% medium size gravel, 15% coarse to fine sand, 65% fines, high plasticity, grayish green, stiff, saturated, residual, CH		15	38	0.75					
16						100+	62	—					
20				Boring terminated at 20-ft									

COMPLETION DEPTH: 20 DEPTH TO WATER: INITIAL: Dry DNL, Inc.

DATE: 9/1/10 DEPTH TO WATER: FINAL: Page 1 of 11

DNL, Inc.

9131 Research Drive, N.W. Huntsville, AL 35805

JOB NO.: 4727 JOB: Old Madison Pike Bridge LOG OF BORING: CB-18

JOB LOCATION: Huntsville, AL BORING LOCATION: 216.94+80 29-ft Left

Depth, ft	Elevation	USCS Cl.	Graphic	Description	Sample	Blows	Qu, tsf	Water Content, %	Liquid Limit	Plasticity Index	Percent Passing No. 200	Unit Weight	Unit Cohesion
				SILTY SANDY CLAY, 35% coarse to fine sand, 65% fines, low plasticity, orangish brown, very soft, wet, alluvium, CL		4	22	—					
						9	30	0.25					
4				Increasing gravel content		7	47	0.25					
				SILTY CLAYEY SAND, 55% coarse to fine sand, 45% fines, low plasticity, greenish grey, firm, wet, alluvium, SC		6	40	0.75					
8						19	34	1.25					
12				SILTY CLAYEY SAND with traces of GRAVEL, 70% coarse to fine sand, 30% fines, low plasticity, orangish tan, very stiff, wet, alluvium, SC		100+	27						
16				Boring terminated at 15-ft									
20													

COMPLETION DEPTH: 15 DEPTH TO WATER: INITIAL: Dry DNL Inc

DATE: 9/14/10 DEPTH TO WATER: FINAL: Page 1 of 11

ALABAMA REGISTERED PROFESSIONAL ENGINEER JOHN M. OZIER

Alabama Department of Transportation

Bridge Sheet ____ of ____

BUREAU OF MATERIALS AND TESTS

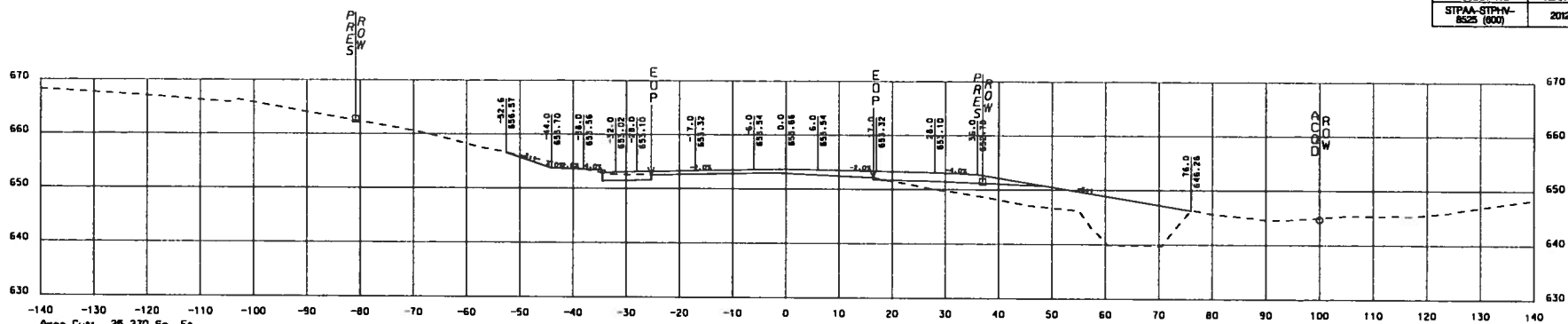
OLD MADISON PIKE BRIDGE AND BRIDGE CULVERT OVER INDIAN CREEK HUNTSVILLE MADISON CO. AL.

GEOTECHNICAL ENGINEER

PE

TEST BORING RECORD

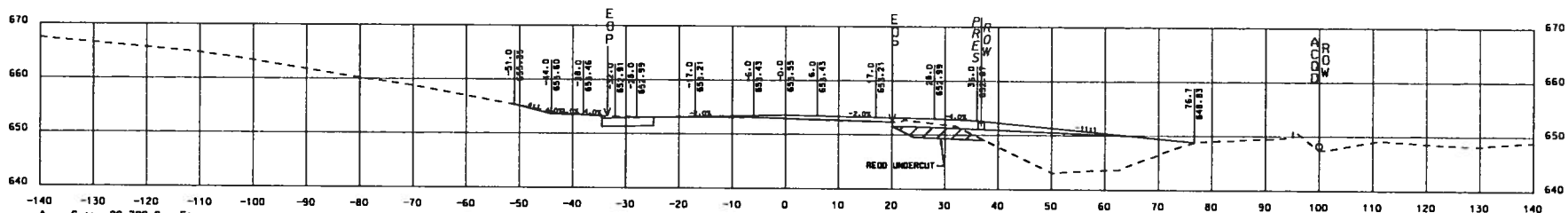
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	95



Area Cut: 25.370 Sq. Ft.
Area Fill: 228.642 Sq. Ft.

Vol. Cut: 51.073 Cu. Yds
Vol. Fill: 393.768 Cu. Yds

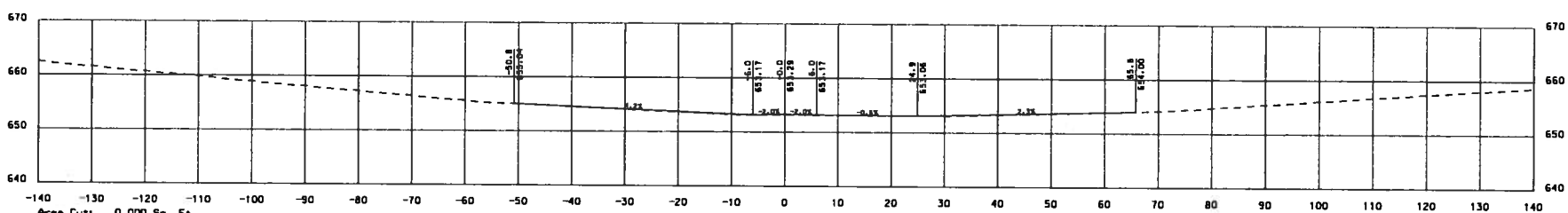
11+00



Area Cut: 29.789 Sq. Ft.
Area Fill: 196.627 Sq. Ft.

Vol. Cut: 27.582 Cu. Yds
Vol. Fill: 190.293 Cu. Yds

10+50



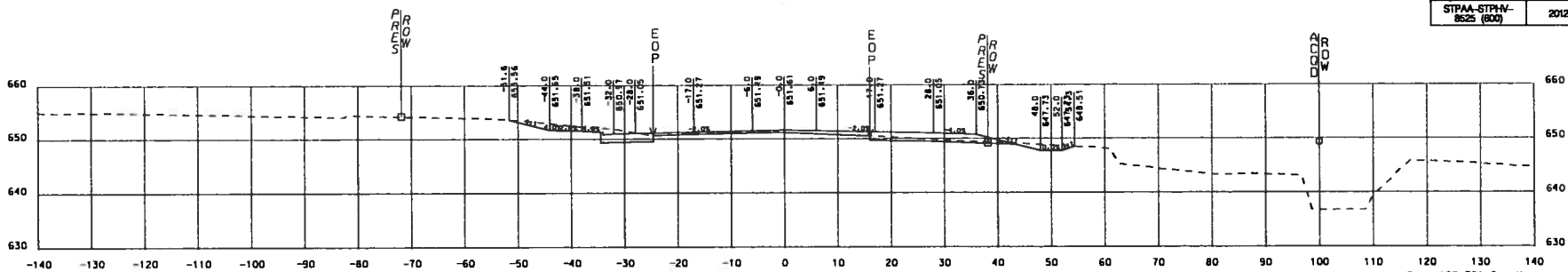
Area Cut: 0.000 Sq. Ft.
Area Fill: 8.890 Sq. Ft.

Vol. Cut: 0.000 Cu. Yds
Vol. Fill: 0.000 Cu. Yds

10+00

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

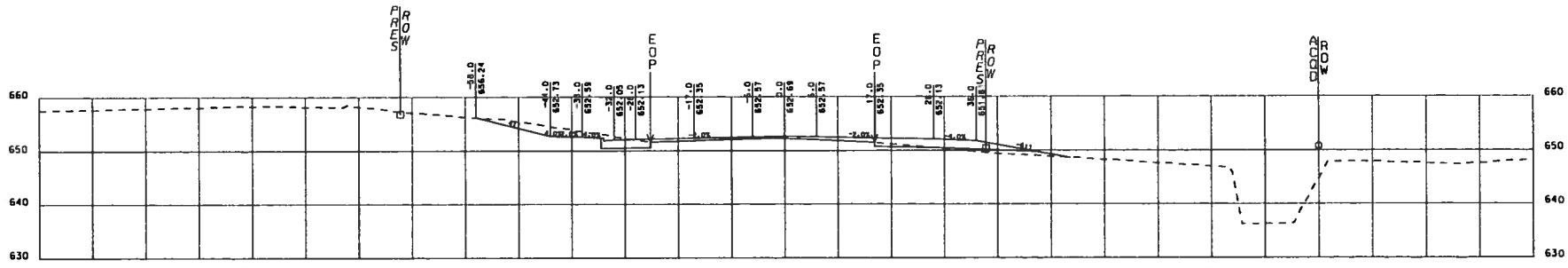
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	98



Area Cut: 58.245 Sq. Ft.
Area Fill: 0.060 Sq. Ft.

Vol. Cut: 100.701 Cu. Yds
Vol. Fill: 10.580 Cu. Yds

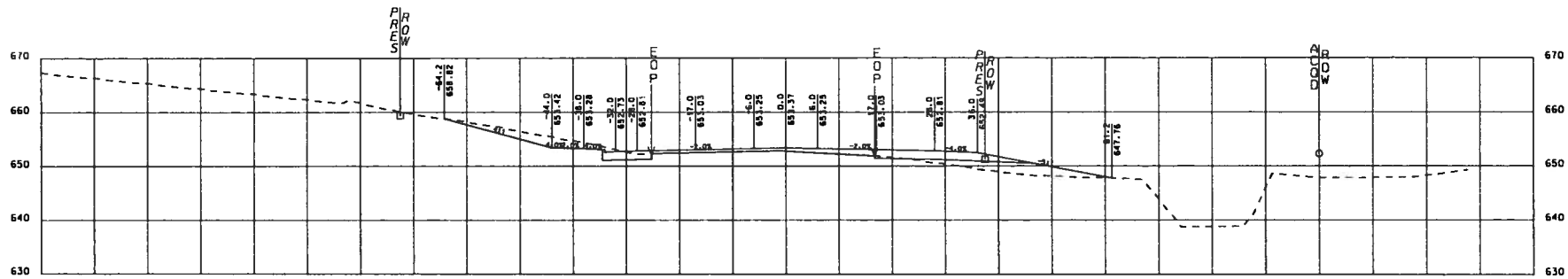
12+50



Area Cut: 50.512 Sq. Ft.
Area Fill: 11.366 Sq. Ft.

Vol. Cut: 97.548 Cu. Yds
Vol. Fill: 52.891 Cu. Yds

12+00



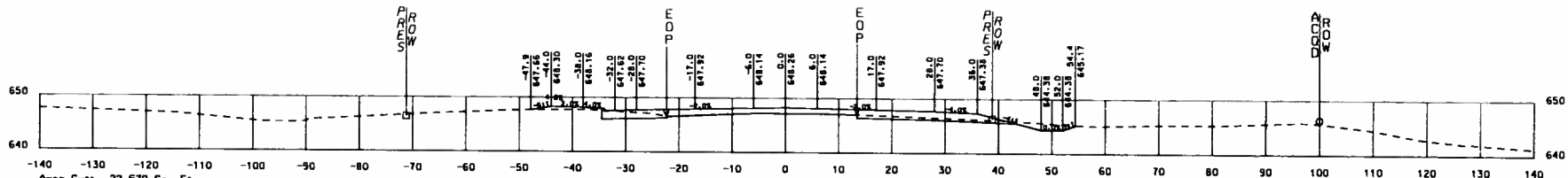
Area Cut: 54.840 Sq. Ft.
Area Fill: 45.756 Sq. Ft.

Vol. Cut: 74.269 Cu. Yds
Vol. Fill: 254.072 Cu. Yds

11+50

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

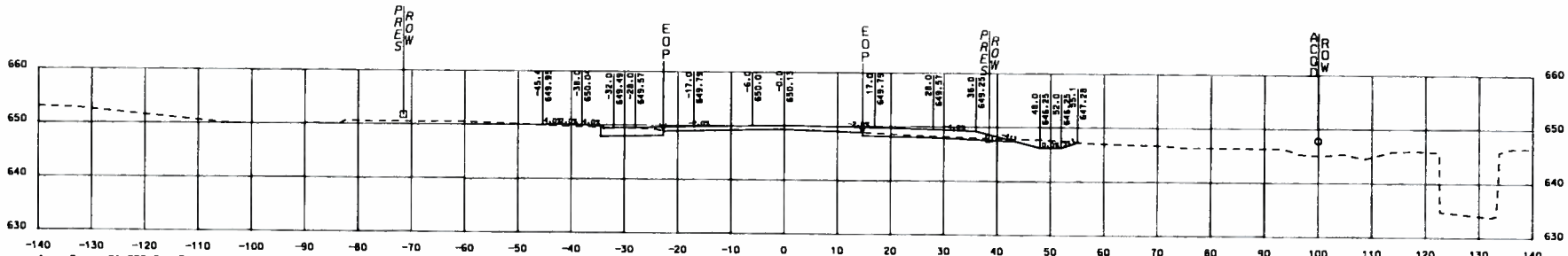
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	97



Area Cut: 33.570 Sq. Ft.
Area Fill: 5.394 Sq. Ft.

Vol. Cut: 59.981 Cu. Yds
Vol. Fill: 7.827 Cu. Yds

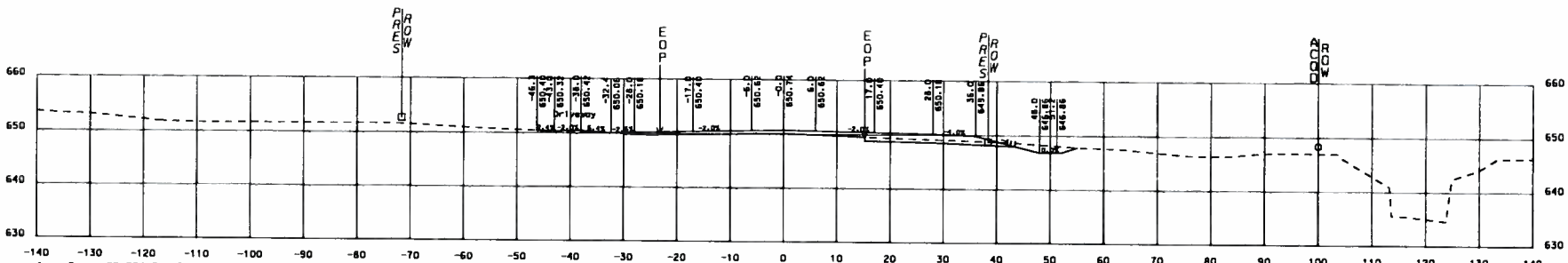
13+50



Area Cut: 31.209 Sq. Ft.
Area Fill: 3.059 Sq. Ft.

Vol. Cut: 22.318 Cu. Yds
Vol. Fill: 2.367 Cu. Yds

13+00



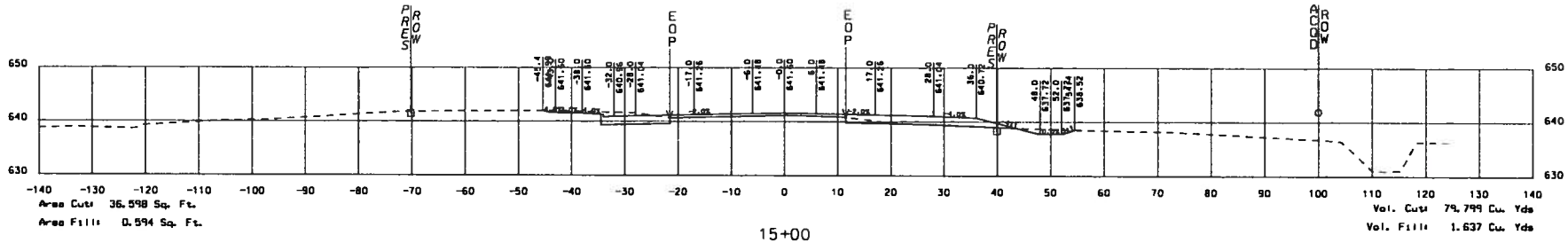
Area Cut: 33.034 Sq. Ft.
Area Fill: 3.754 Sq. Ft.

Vol. Cut: 52.806 Cu. Yds
Vol. Fill: 2.206 Cu. Yds

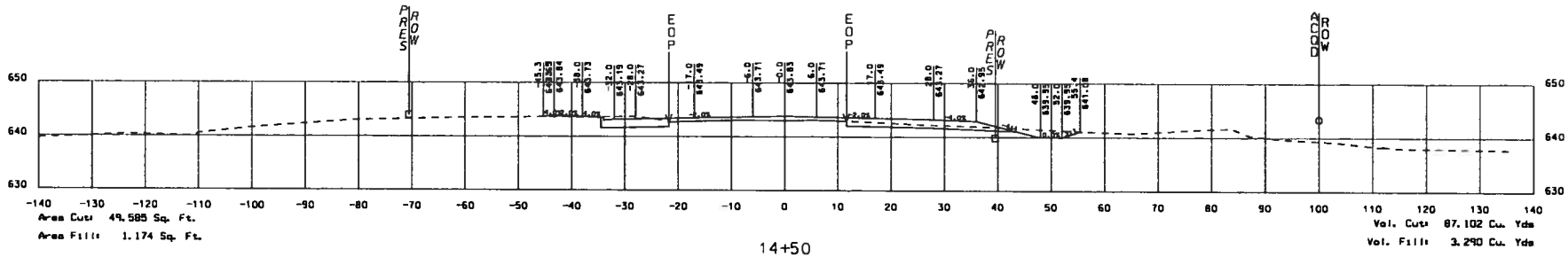
12+81

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

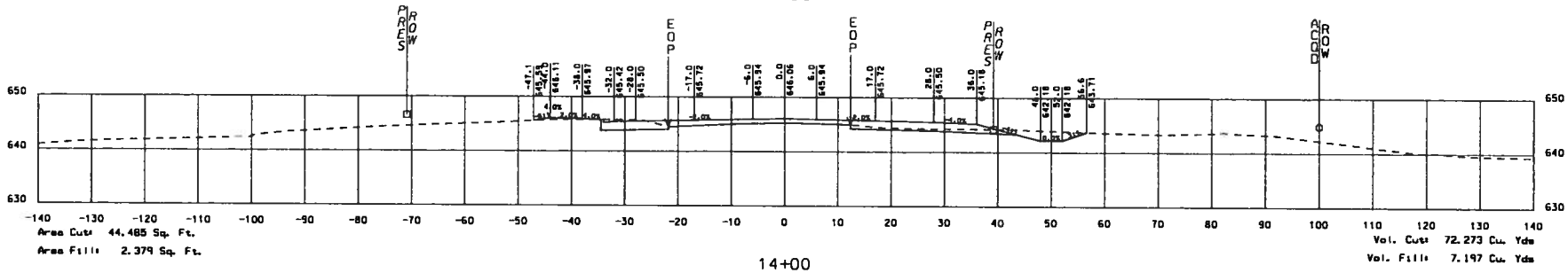
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	98



15+00



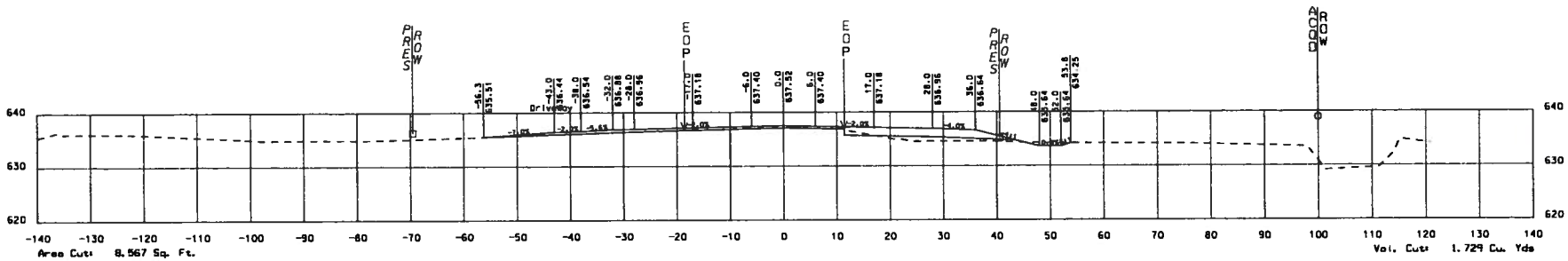
14+50



14+00

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

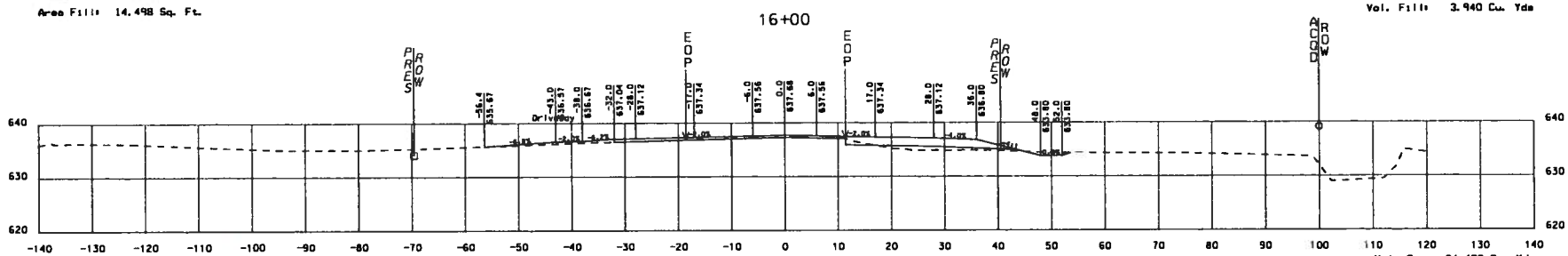
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8625 (800)	2012	99



Area Cut: 8.567 Sq. Ft.
Area Fill: 14.498 Sq. Ft.

Vol. Cut: 1.729 Cu. Yds
Vol. Fill: 3.940 Cu. Yds

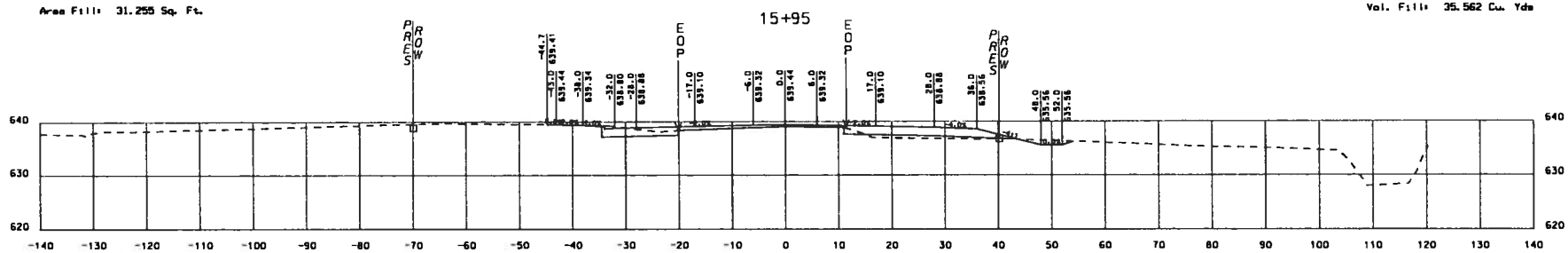
16+00



Area Cut: 11.511 Sq. Ft.
Area Fill: 31.255 Sq. Ft.

Vol. Cut: 34.426 Cu. Yds
Vol. Fill: 35.562 Cu. Yds

15+95



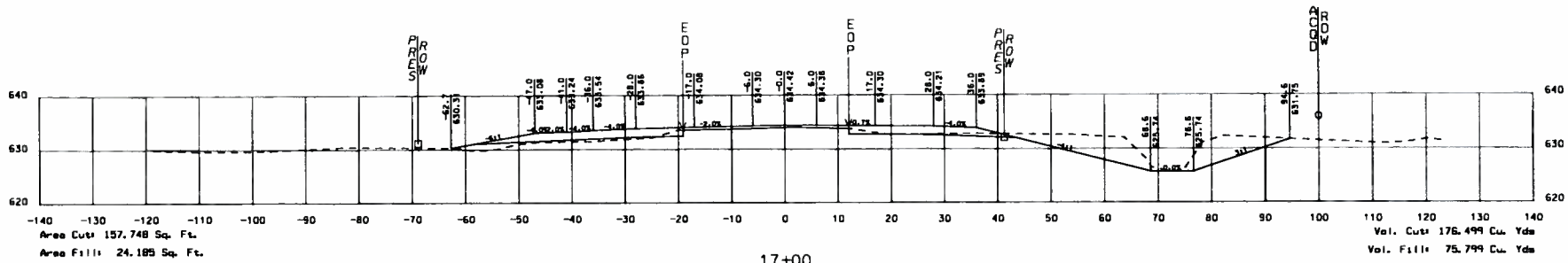
Area Cut: 29.482 Sq. Ft.
Area Fill: 11.090 Sq. Ft.

Vol. Cut: 61.186 Cu. Yds
Vol. Fill: 10.818 Cu. Yds

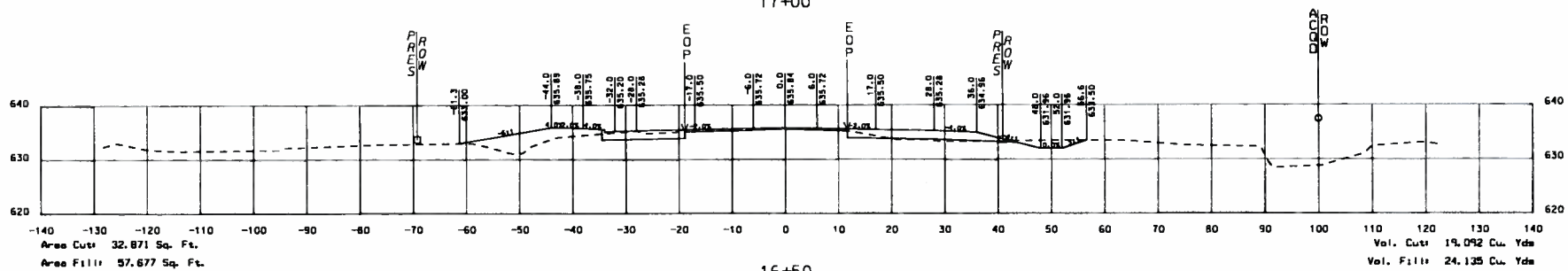
15+50

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

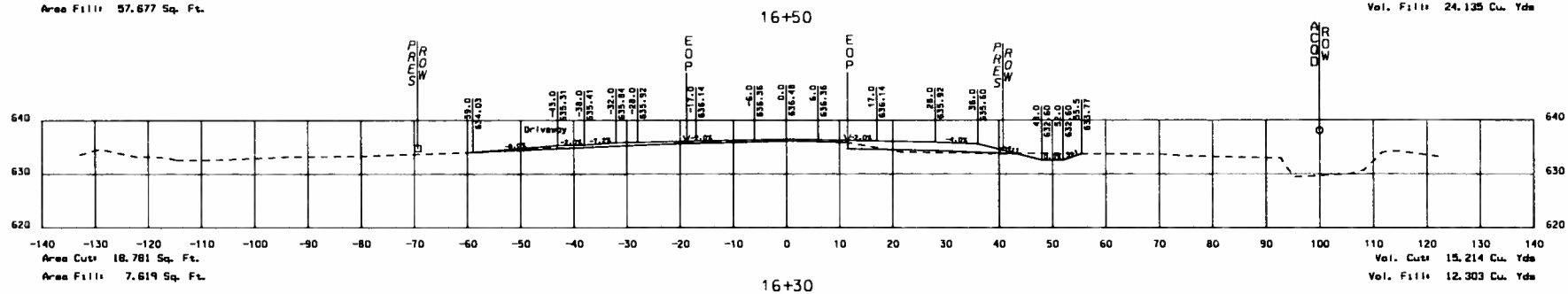
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	100



17+00



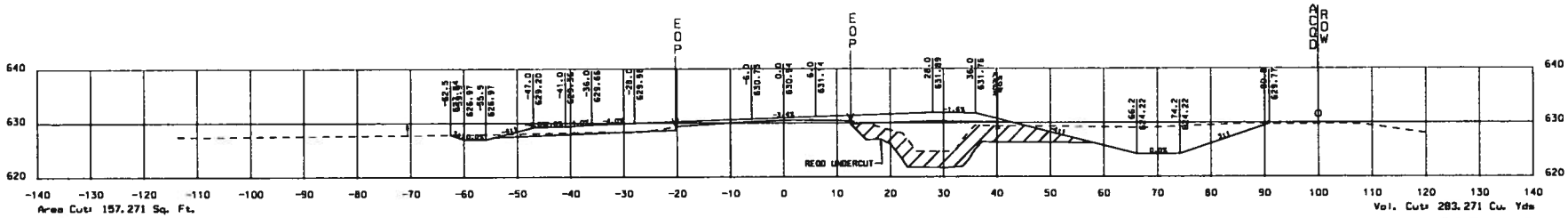
16+50



16+30

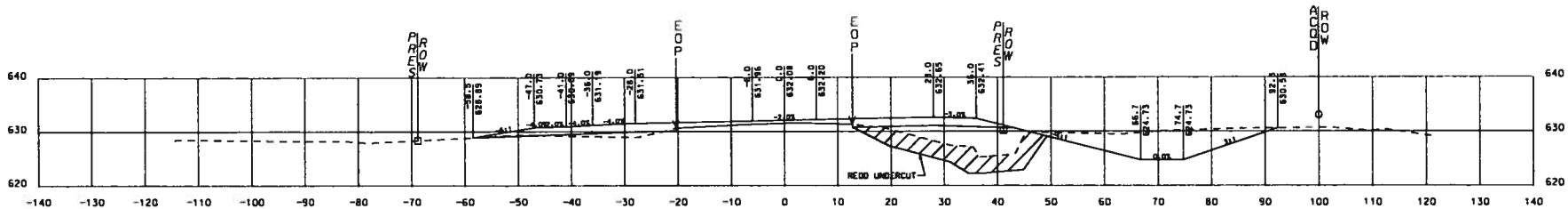
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-6525 (600)	2012	101



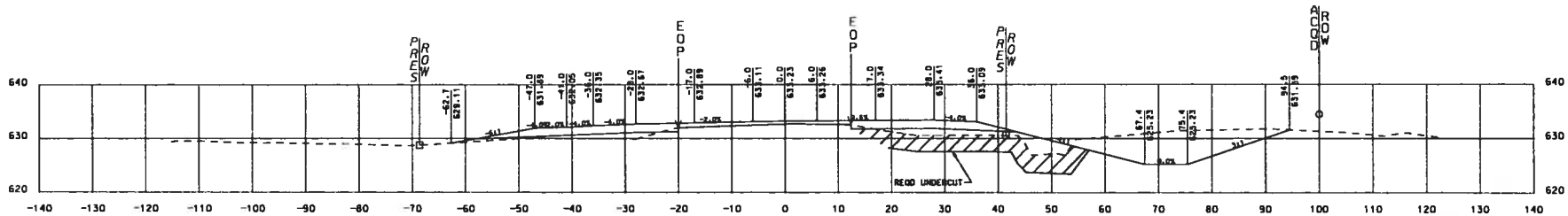
Area Cut: 157.271 Sq. Ft.
Area Fill: 73.953 Sq. Ft.
Vol. Cut: 283.271 Cu. Yds
Vol. Fill: 158.694 Cu. Yds

18+50



Area Cut: 148.662 Sq. Ft.
Area Fill: 97.437 Sq. Ft.
Vol. Cut: 292.232 Cu. Yds
Vol. Fill: 159.771 Cu. Yds

18+00

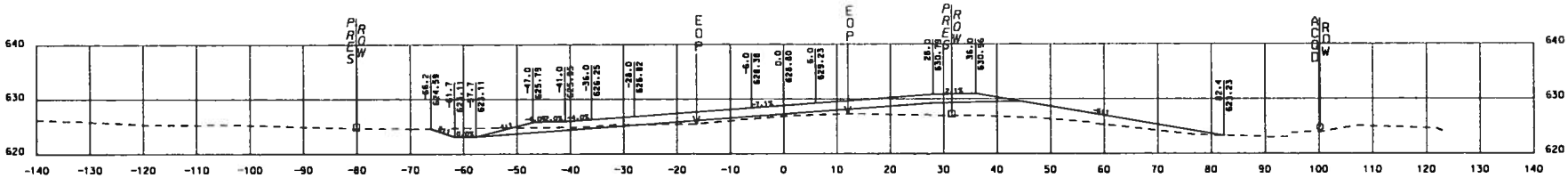


Area Cut: 166.949 Sq. Ft.
Area Fill: 75.115 Sq. Ft.
Vol. Cut: 300.645 Cu. Yds
Vol. Fill: 91.945 Cu. Yds

17+50

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

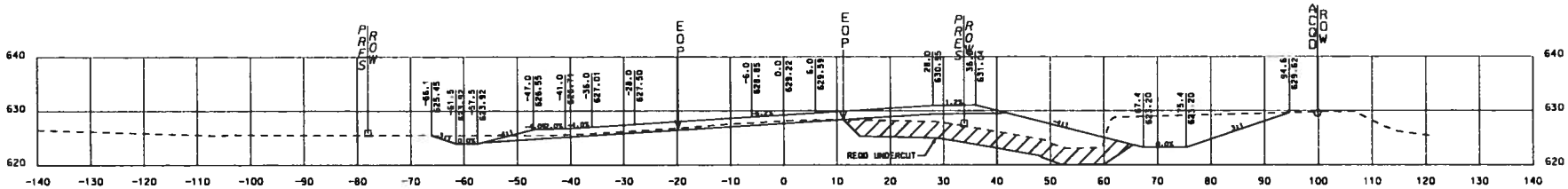
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	102



Area Cut: 31.373 Sq. Ft.
Area Fill: 142.129 Sq. Ft.

Vol. Cut: 193.560 Cu. Yds
Vol. Fill: 229.340 Cu. Yds

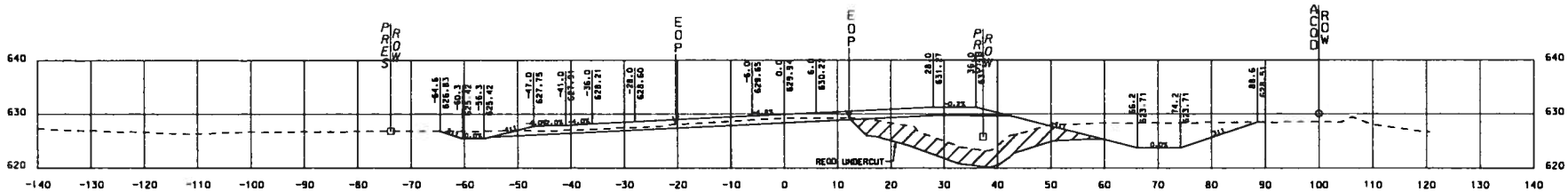
20+00



Area Cut: 177.672 Sq. Ft.
Area Fill: 105.558 Sq. Ft.

Vol. Cut: 324.414 Cu. Yds
Vol. Fill: 201.208 Cu. Yds

19+50



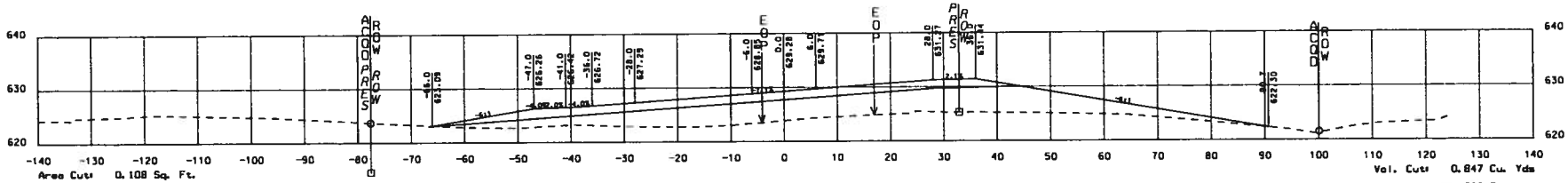
Area Cut: 172.695 Sq. Ft.
Area Fill: 111.746 Sq. Ft.

Vol. Cut: 305.524 Cu. Yds
Vol. Fill: 171.944 Cu. Yds

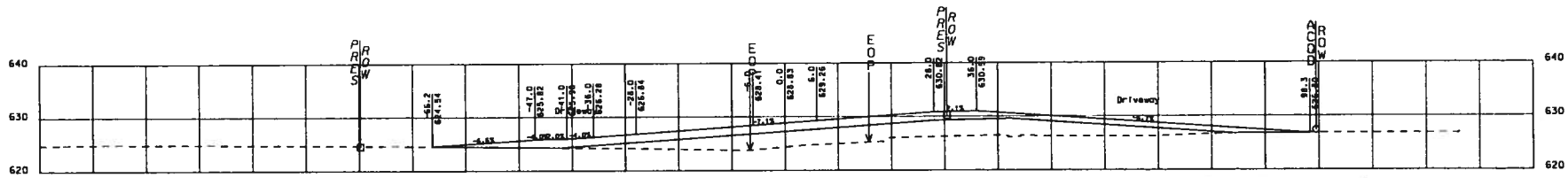
19+00

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

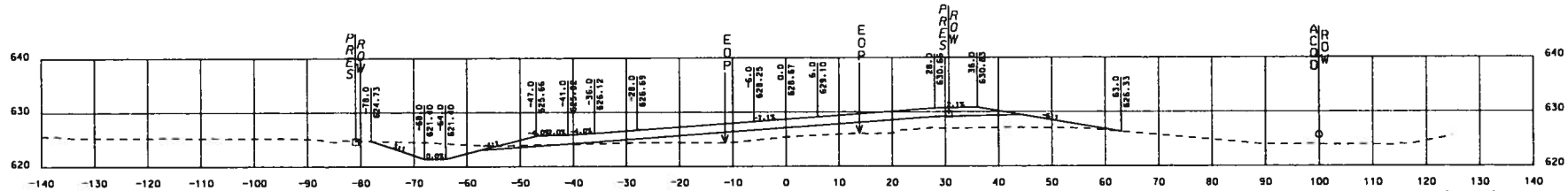
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPH-V-8525 (600)	2012	103



21+50



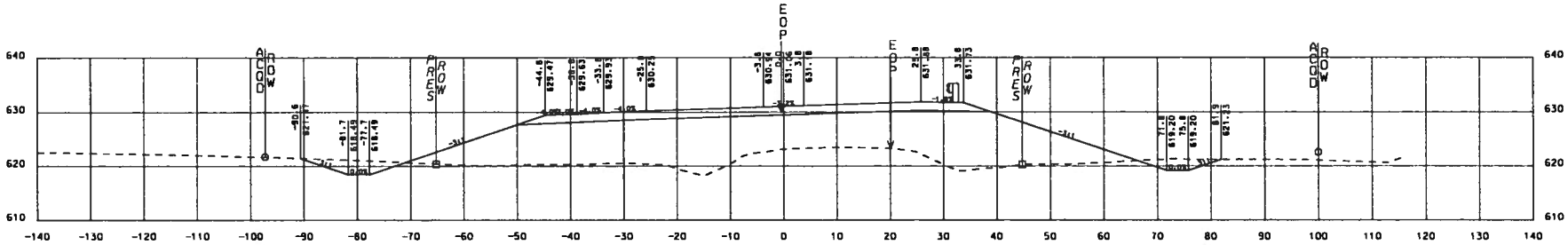
21+00



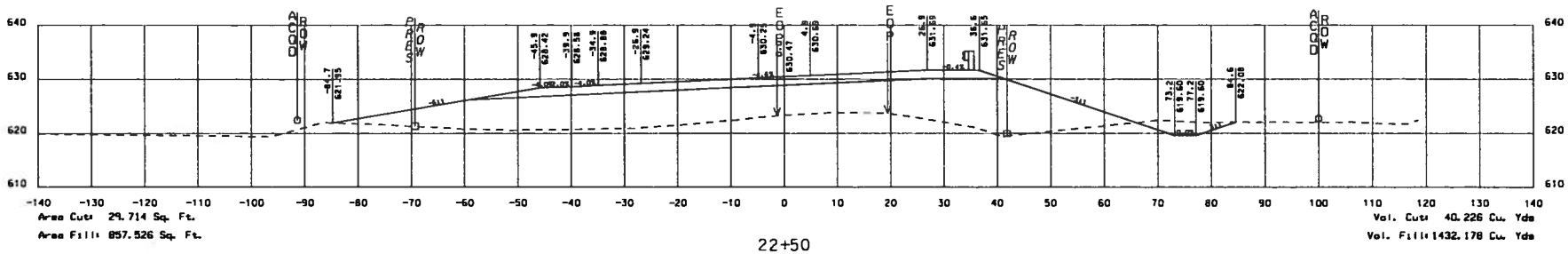
20+50

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

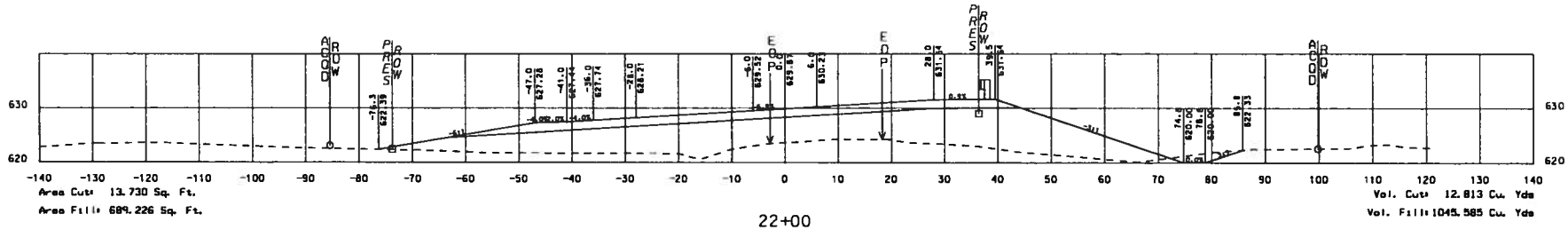
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	104



23+00



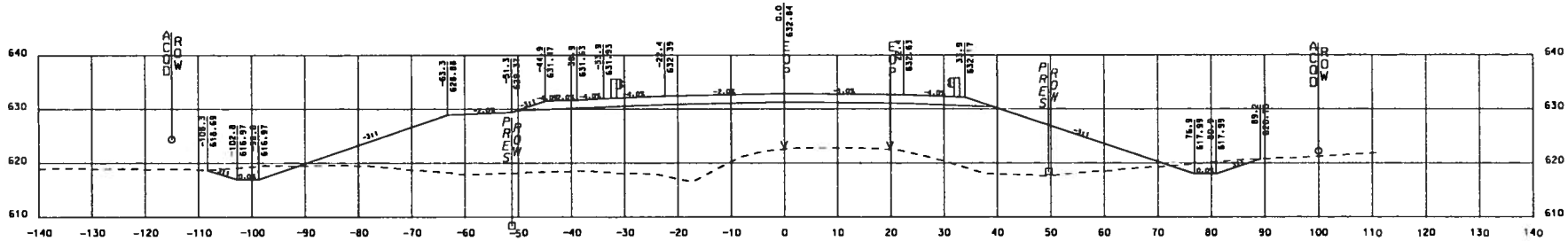
22+50



22+00

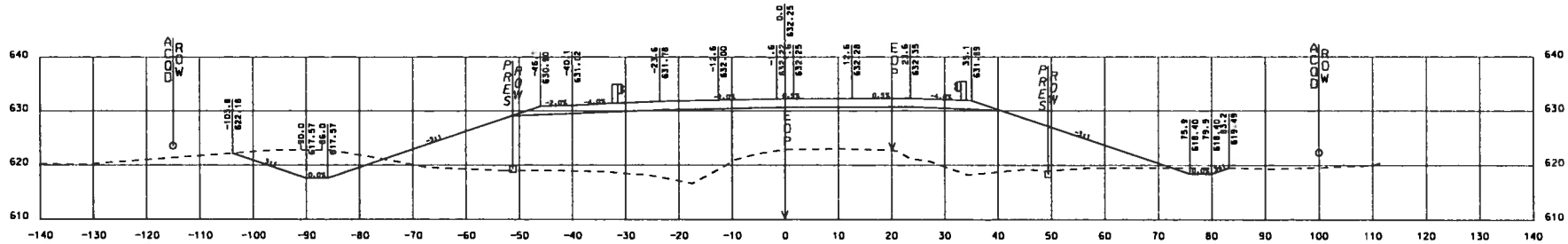
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	105



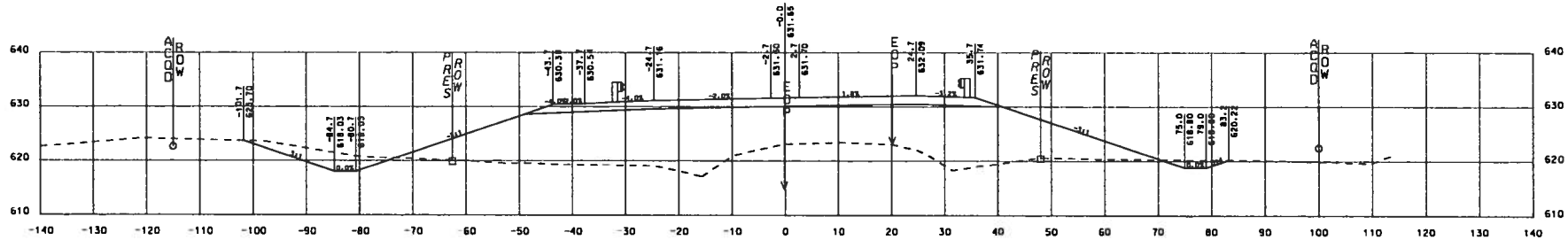
Area Cut= 21.856 Sq. Ft.
Area Fill= 1313.902 Sq. Ft.
Vol. Cut= 107.678 Cu. Yds
Vol. Fill= 2366.646 Cu. Yds

24+50



Area Cut= 94.436 Sq. Ft.
Area Fill= 1242.076 Sq. Ft.
Vol. Cut= 149.416 Cu. Yds
Vol. Fill= 2158.558 Cu. Yds

24+00

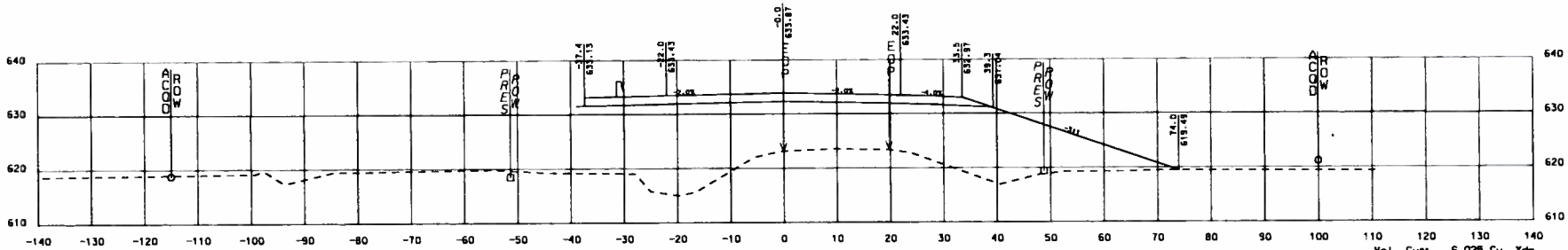


Area Cut= 66.934 Sq. Ft.
Area Fill= 1089.167 Sq. Ft.
Vol. Cut= 109.492 Cu. Yds
Vol. Fill= 1873.787 Cu. Yds

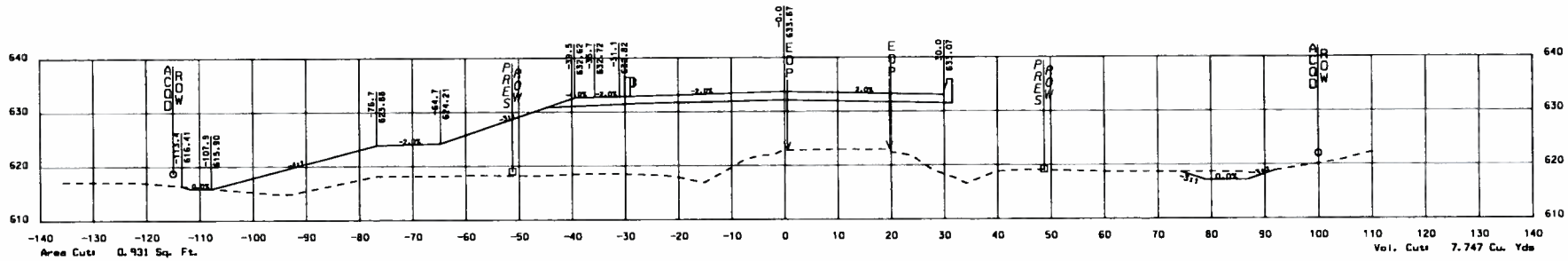
23+50

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

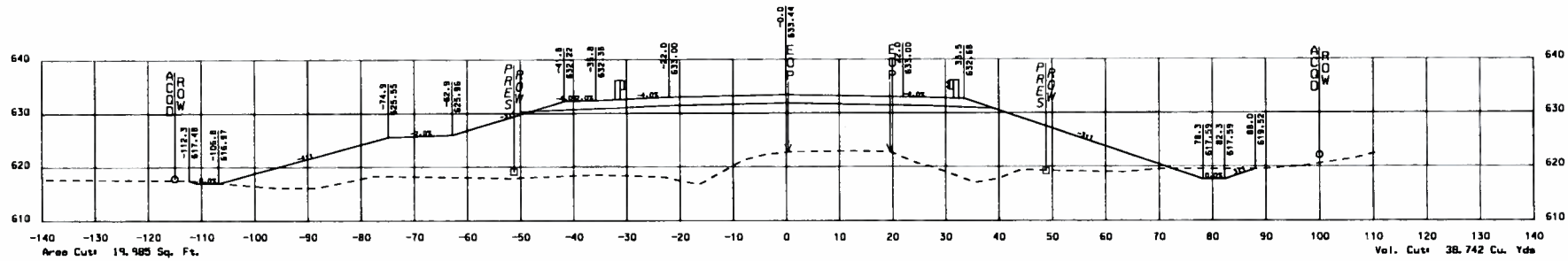
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	106



28+70



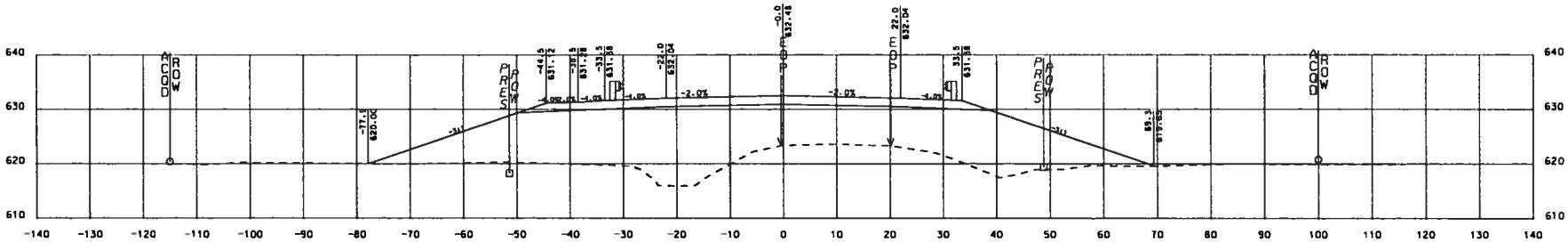
25+20



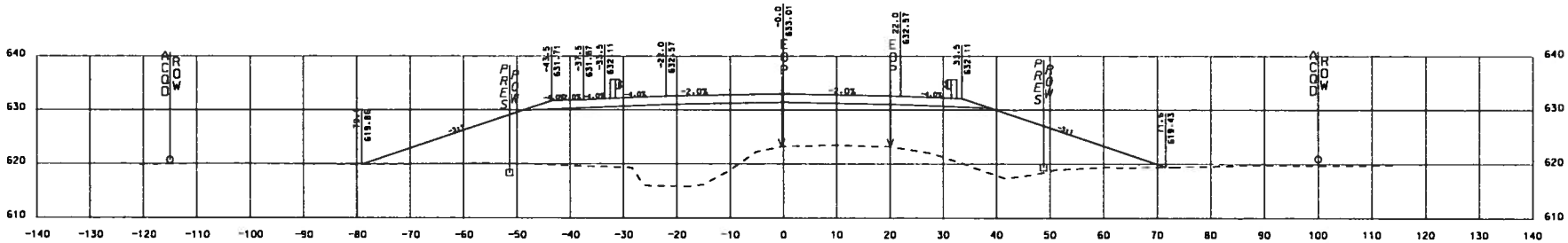
25+00

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

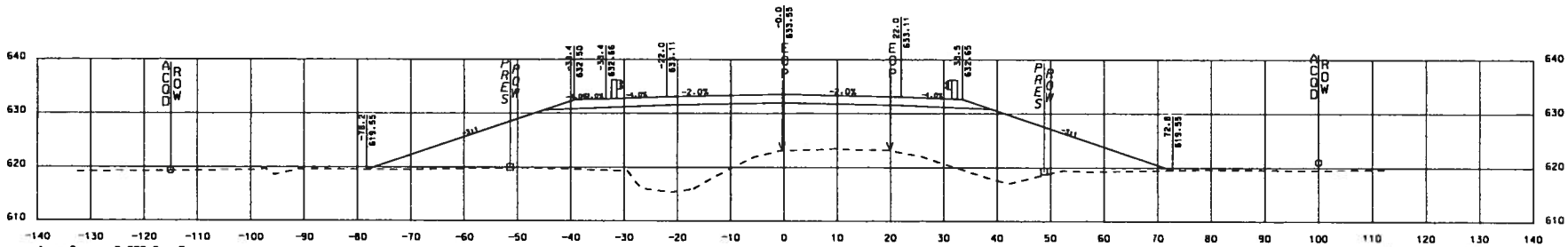
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	107



30+00



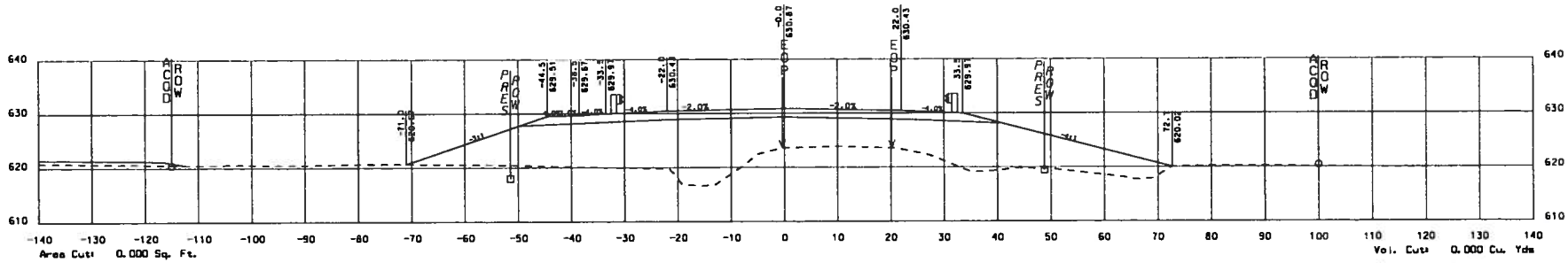
29+50



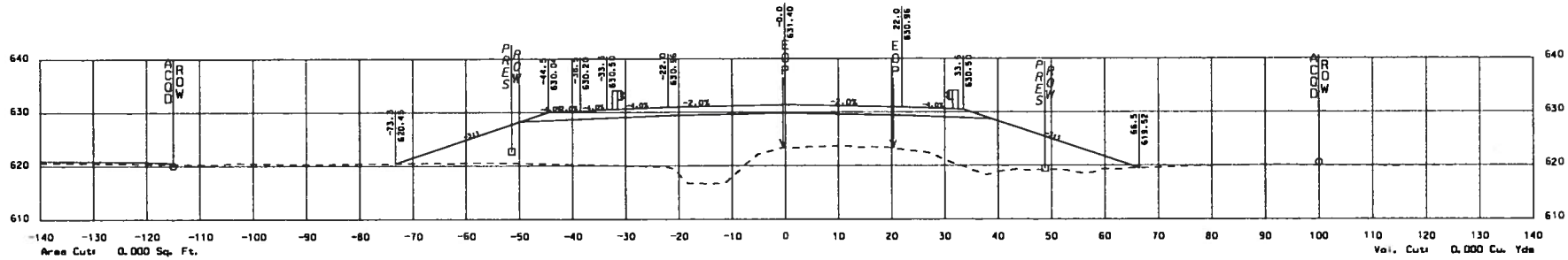
29+00

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

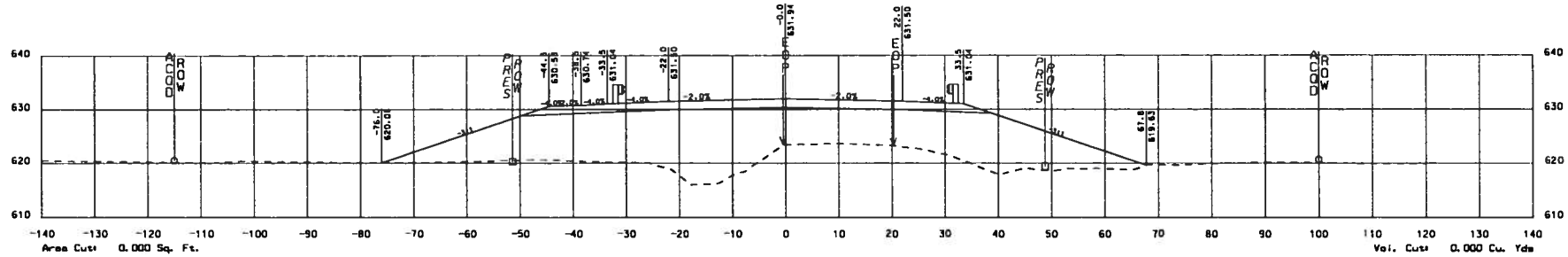
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	108



31+50



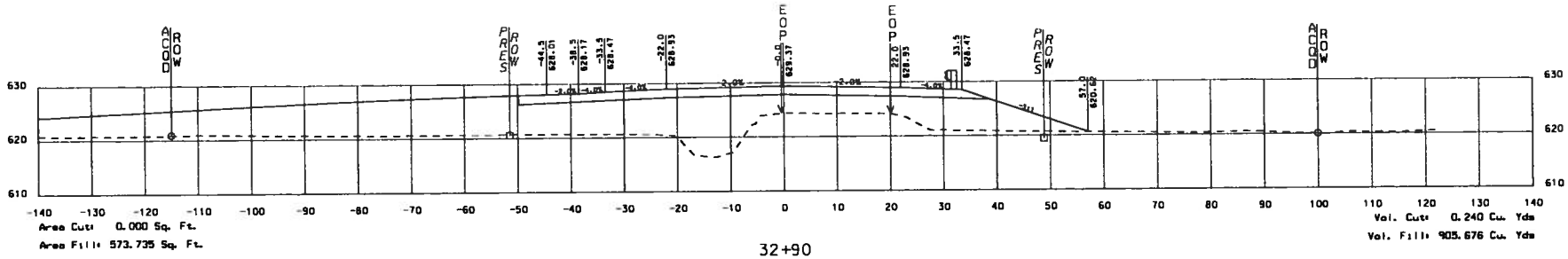
31+00



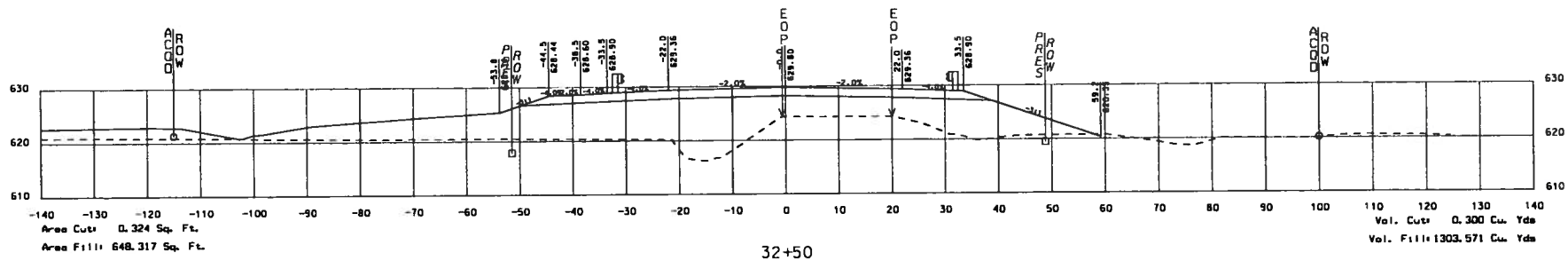
30+50

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

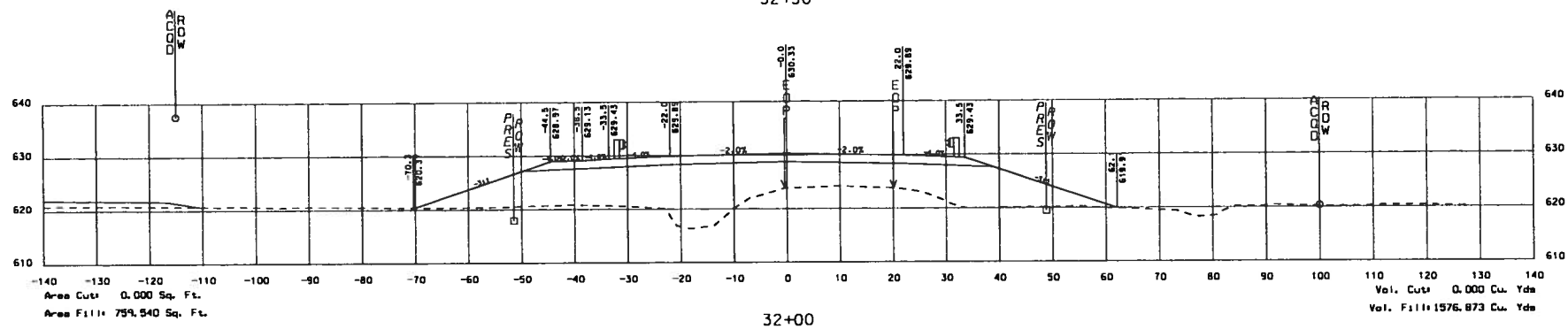
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	109



32+90



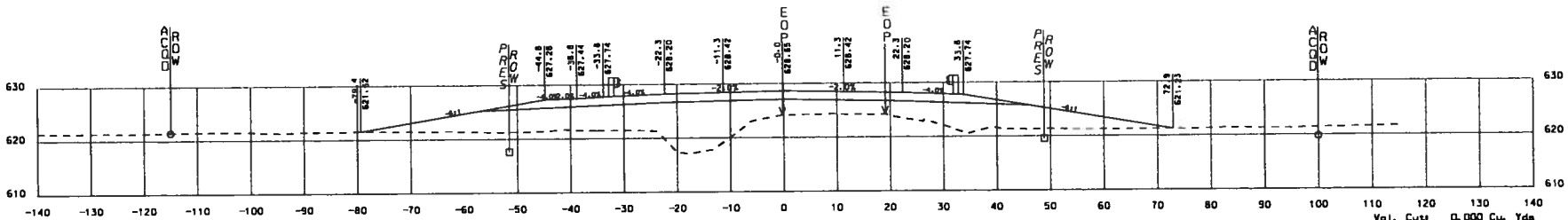
32+50



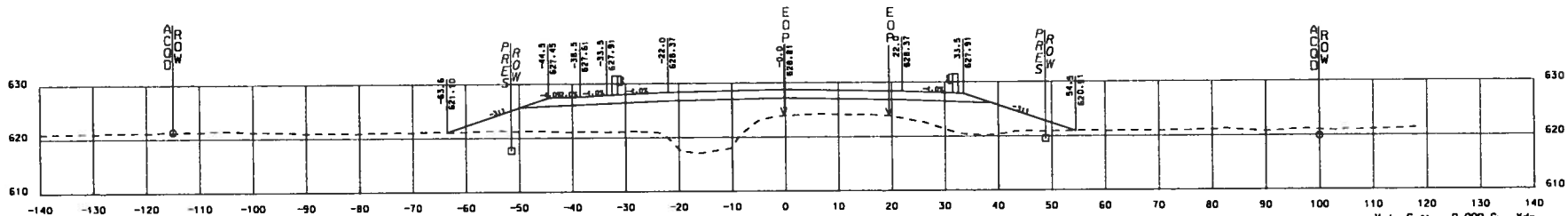
32+00

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

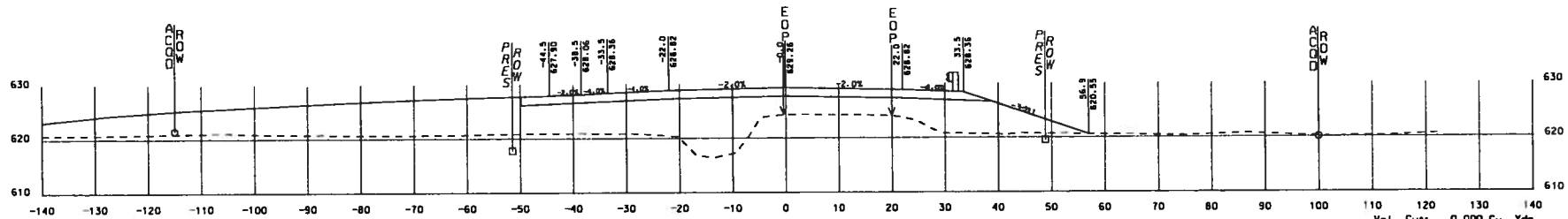
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	110



34+00



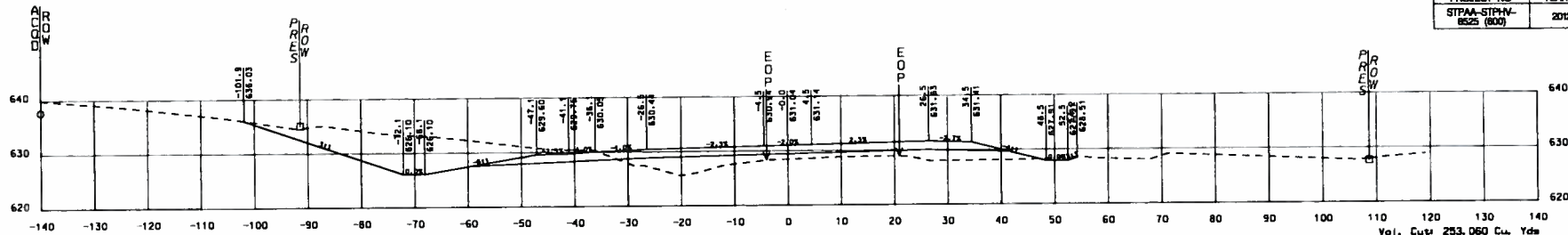
33+50



33+00

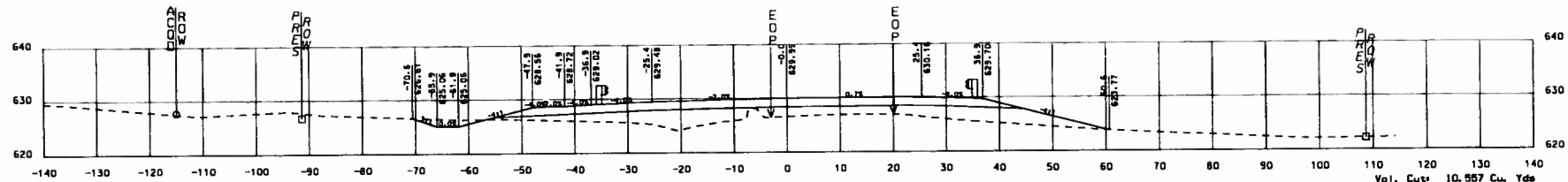
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (003)	2012	111



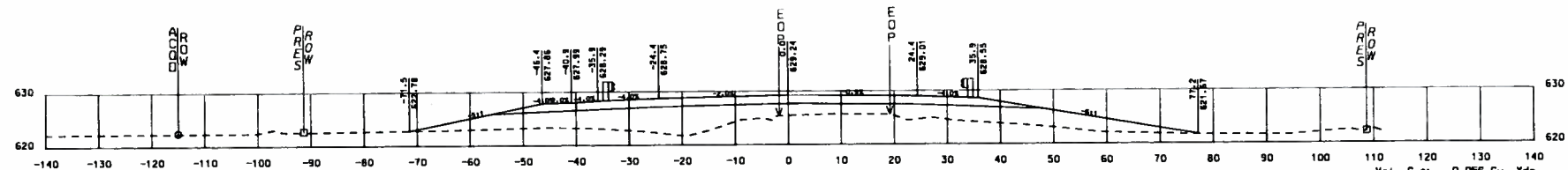
Area Cut: 261.904 Sq. Ft.
Area Fill: 117.270 Sq. Ft.
Vol. Cut: 253.060 Cu. Yds
Vol. Fill: 310.366 Cu. Yds

36+00



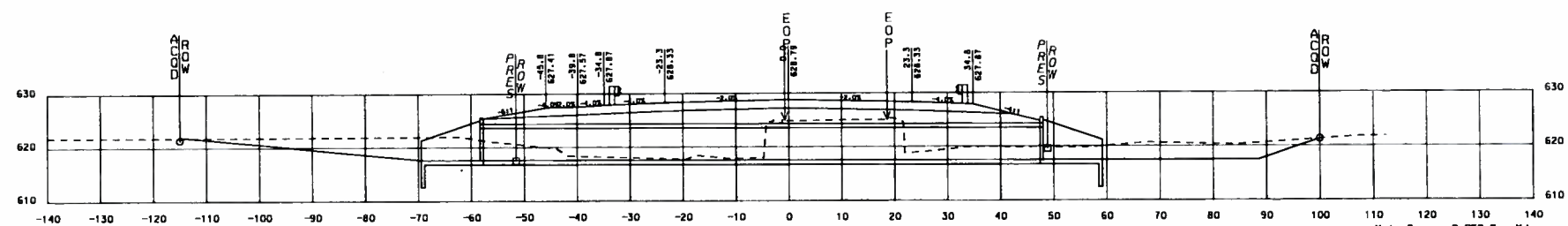
Area Cut: 11.402 Sq. Ft.
Area Fill: 217.925 Sq. Ft.
Vol. Cut: 10.557 Cu. Yds
Vol. Fill: 575.622 Cu. Yds

35+50



Area Cut: 0.000 Sq. Ft.
Area Fill: 403.747 Sq. Ft.
Vol. Cut: 0.056 Cu. Yds
Vol. Fill: 1036.005 Cu. Yds

35+00

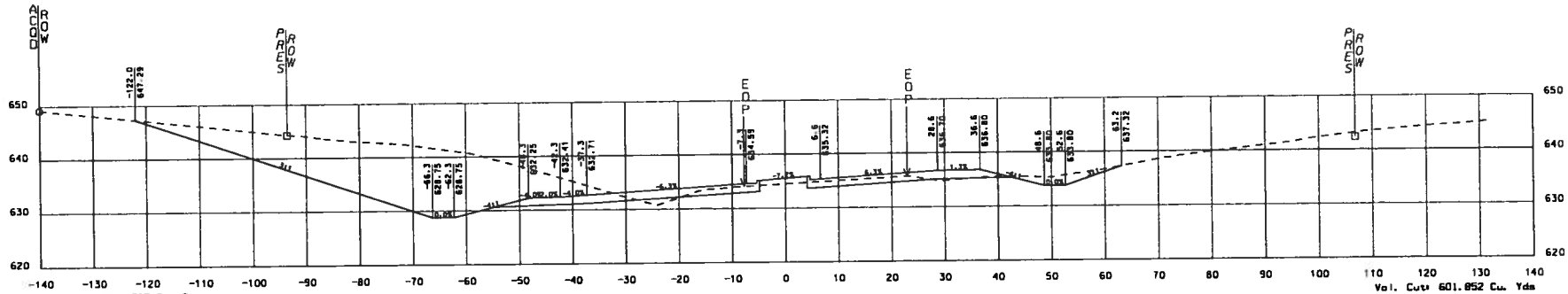


Area Cut: 0.061 Sq. Ft.
Area Fill: 715.139 Sq. Ft.
Vol. Cut: 0.056 Cu. Yds
Vol. Fill: 1189.222 Cu. Yds

34+50

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

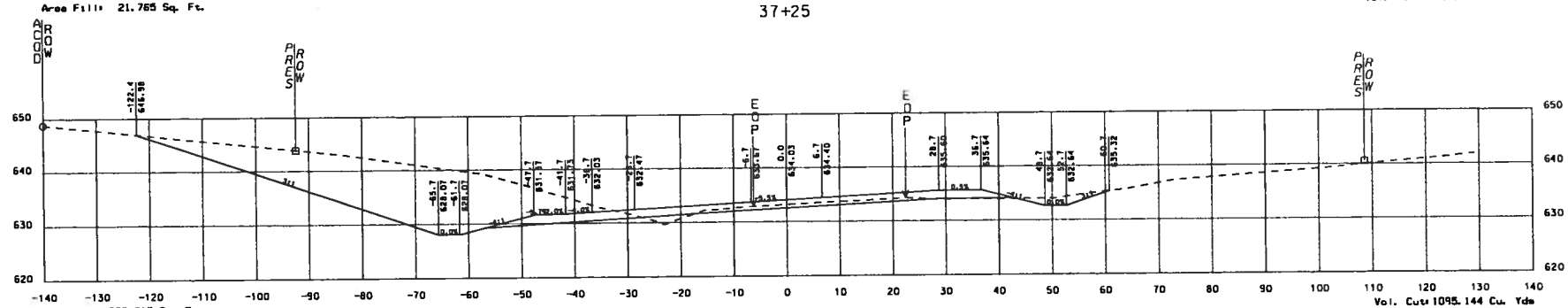
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	112



Area Cut: 660.785 Sq. Ft.
Area Fill: 21.765 Sq. Ft.

Vol. Cut: 601.852 Cu. Yds
Vol. Fill: 14.205 Cu. Yds

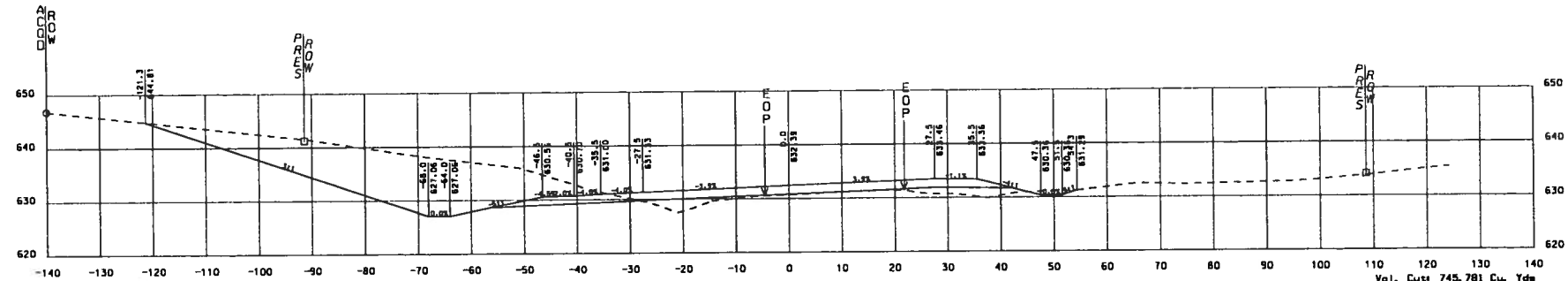
37+25



Area Cut: 639.215 Sq. Ft.
Area Fill: 8.918 Sq. Ft.

Vol. Cut: 1095.144 Cu. Yds
Vol. Fill: 55.407 Cu. Yds

37+00



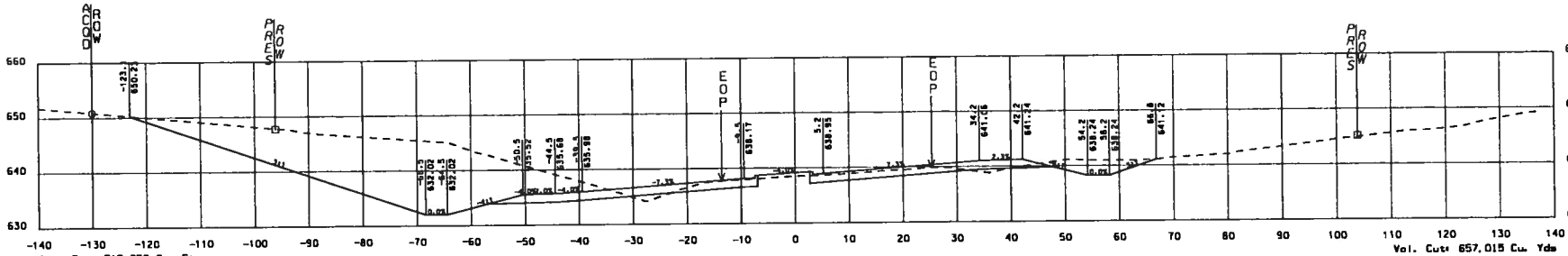
Area Cut: 543.540 Sq. Ft.
Area Fill: 50.922 Sq. Ft.

Vol. Cut: 745.781 Cu. Yds
Vol. Fill: 155.734 Cu. Yds

36+50

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

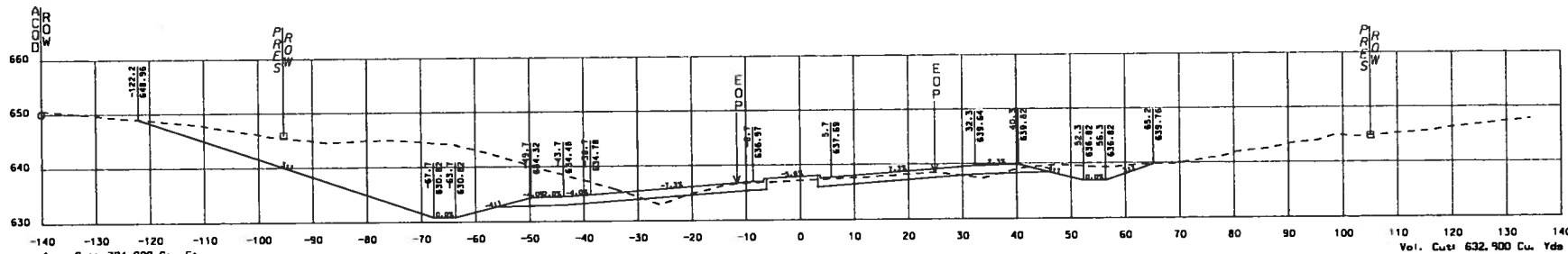
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	113



Area Cut: 715.052 Sq. Ft.
Area Fill: 7.716 Sq. Ft.

Vol. Cut: 657.015 Cu. Yds
Vol. Fill: 6.994 Cu. Yds

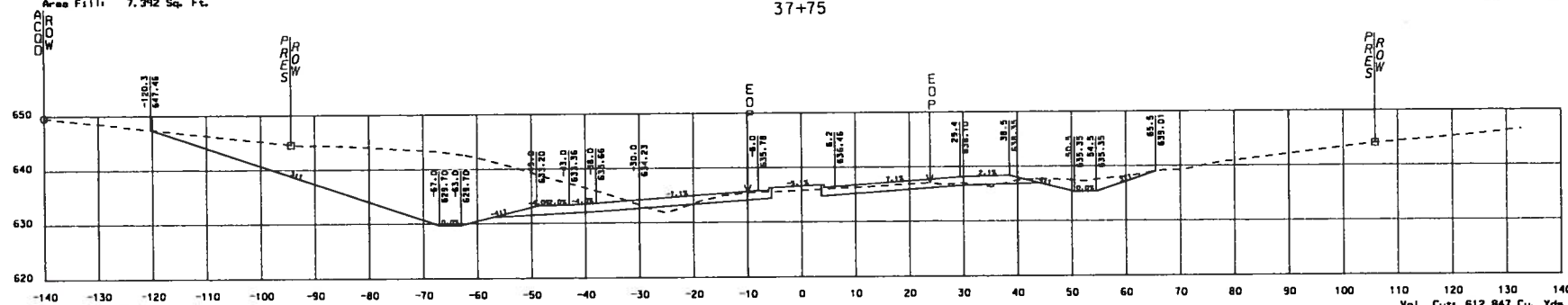
38+00



Area Cut: 704.099 Sq. Ft.
Area Fill: 7.392 Sq. Ft.

Vol. Cut: 632.900 Cu. Yds
Vol. Fill: 12.860 Cu. Yds

37+75



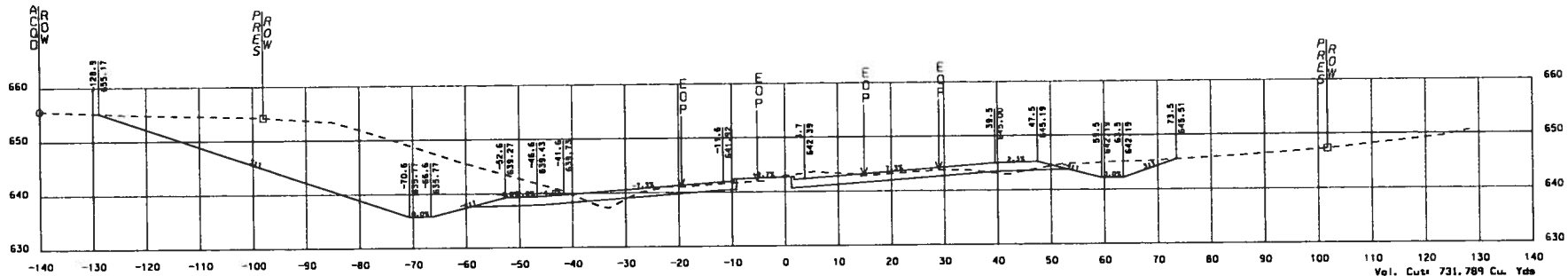
Area Cut: 662.965 Sq. Ft.
Area Fill: 20.385 Sq. Ft.

Vol. Cut: 612.847 Cu. Yds
Vol. Fill: 19.514 Cu. Yds

37+50

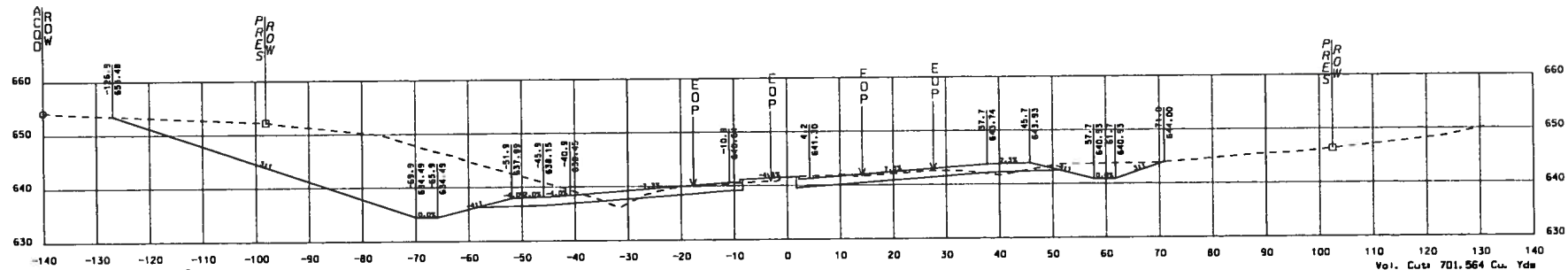
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPH-V-8525 (800)	2012	114



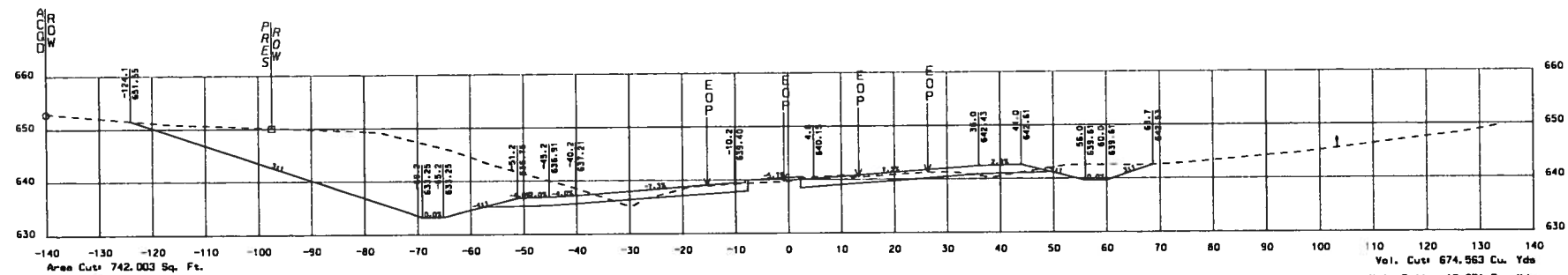
Area Cut: 807.287 Sq. Ft.
Area Fill: 9.918 Sq. Ft.
Vol. Cut: 731.789 Cu. Yds
Vol. Fill: 8.255 Cu. Yds

38+75



Area Cut: 773.376 Sq. Ft.
Area Fill: 7.912 Sq. Ft.
Vol. Cut: 701.564 Cu. Yds
Vol. Fill: 12.342 Cu. Yds

38+50

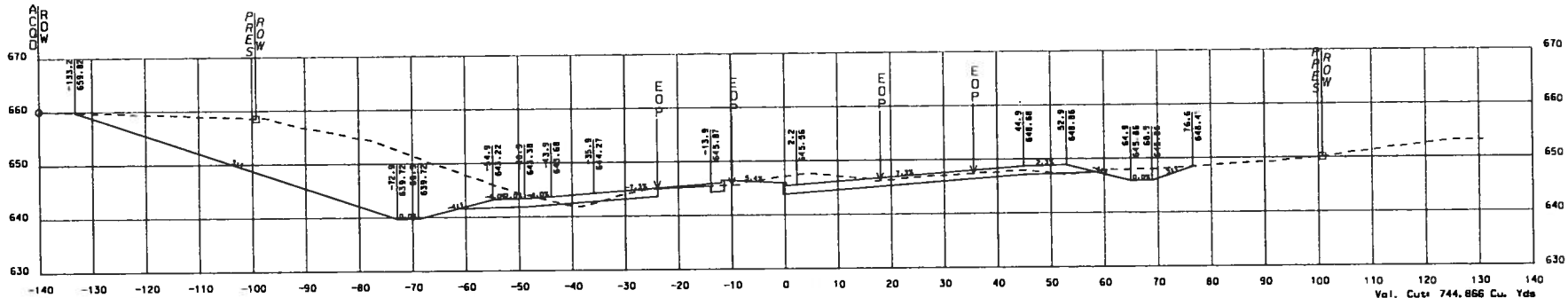


Area Cut: 742.003 Sq. Ft.
Area Fill: 18.746 Sq. Ft.
Vol. Cut: 674.563 Cu. Yds
Vol. Fill: 12.251 Cu. Yds

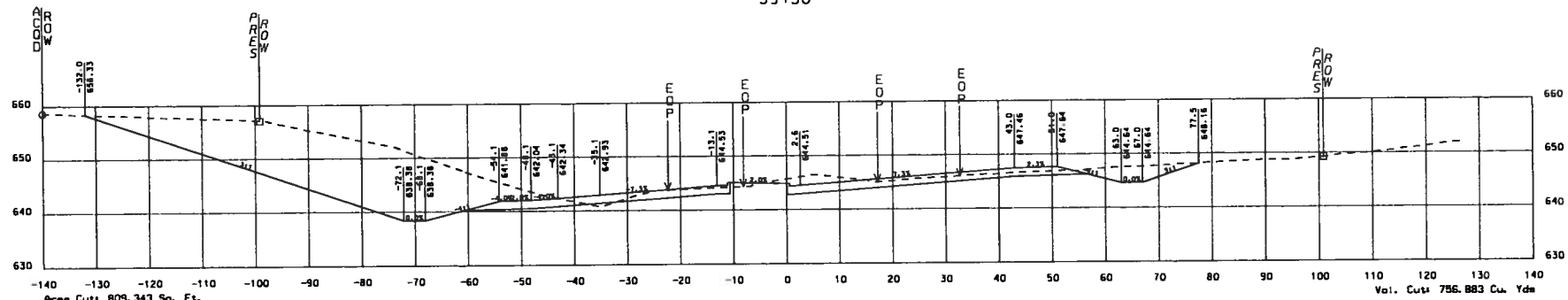
38+25

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

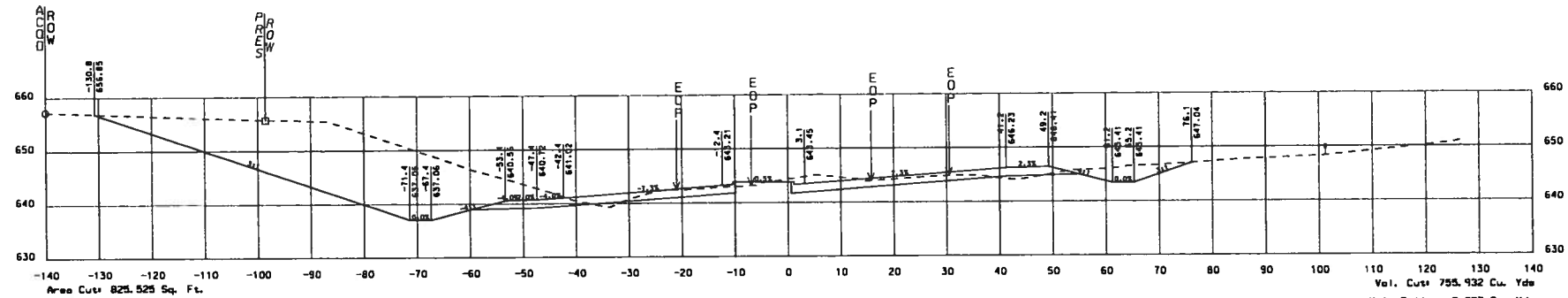
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	115



39+50



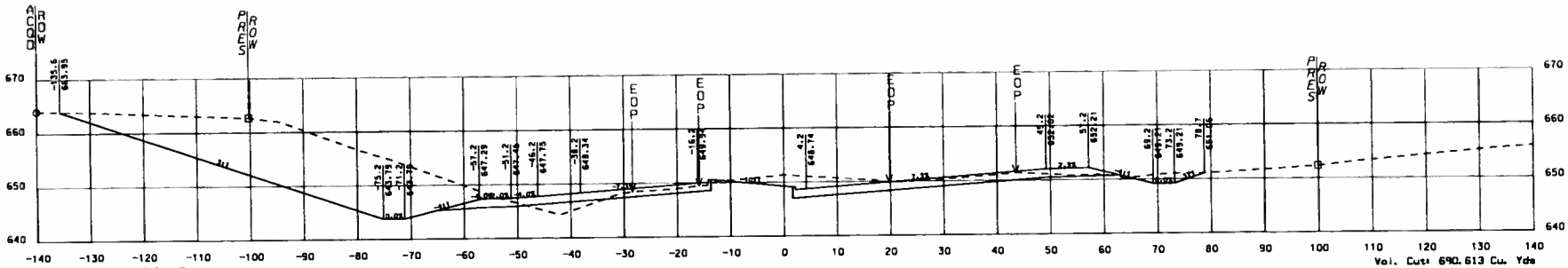
39+25



39+00

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

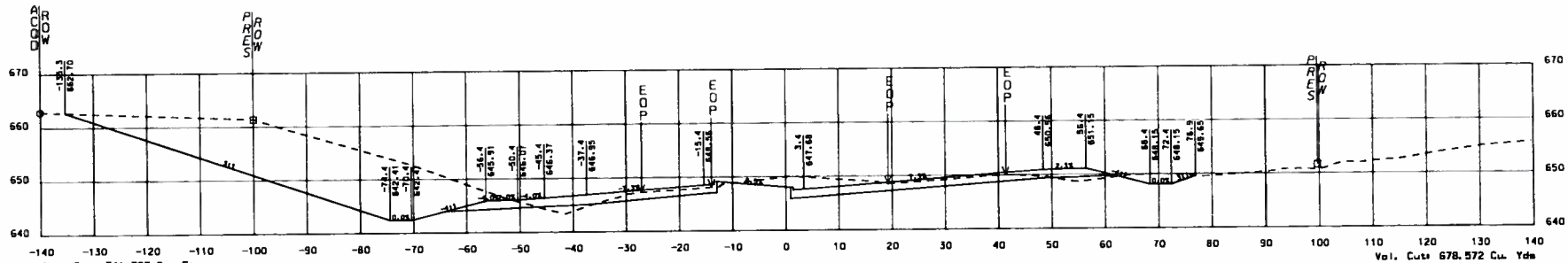
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	116



Area Cut: 749.927 Sq. Ft.
Area Fill: 24.961 Sq. Ft.

Vol. Cut: 690.613 Cu. Yds
Vol. Fill: 17.950 Cu. Yds

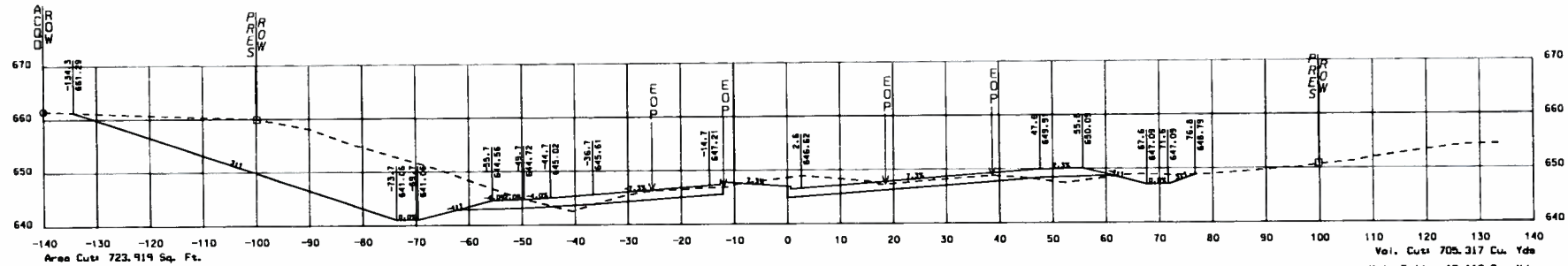
40+25



Area Cut: 741.797 Sq. Ft.
Area Fill: 13.810 Sq. Ft.

Vol. Cut: 678.572 Cu. Yds
Vol. Fill: 13.865 Cu. Yds

40+00



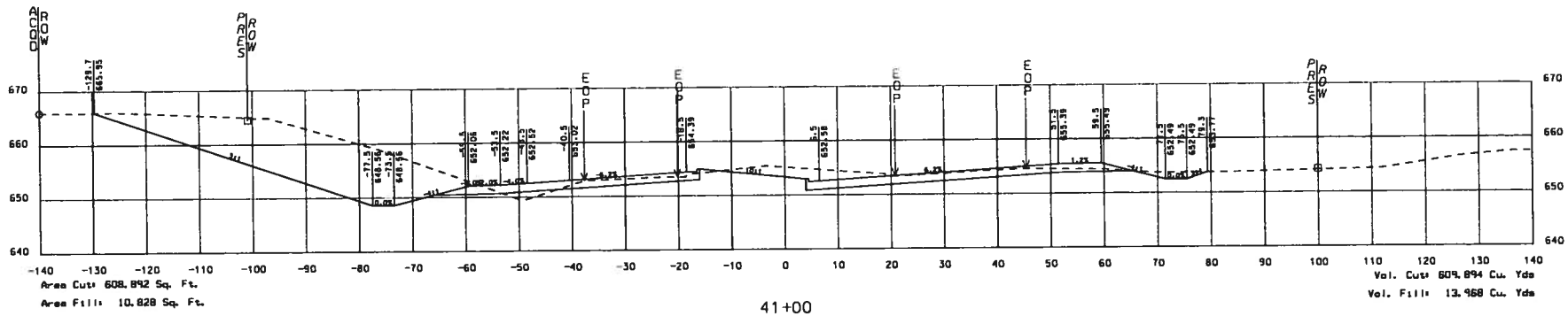
Area Cut: 723.919 Sq. Ft.
Area Fill: 16.138 Sq. Ft.

Vol. Cut: 705.317 Cu. Yds
Vol. Fill: 12.110 Cu. Yds

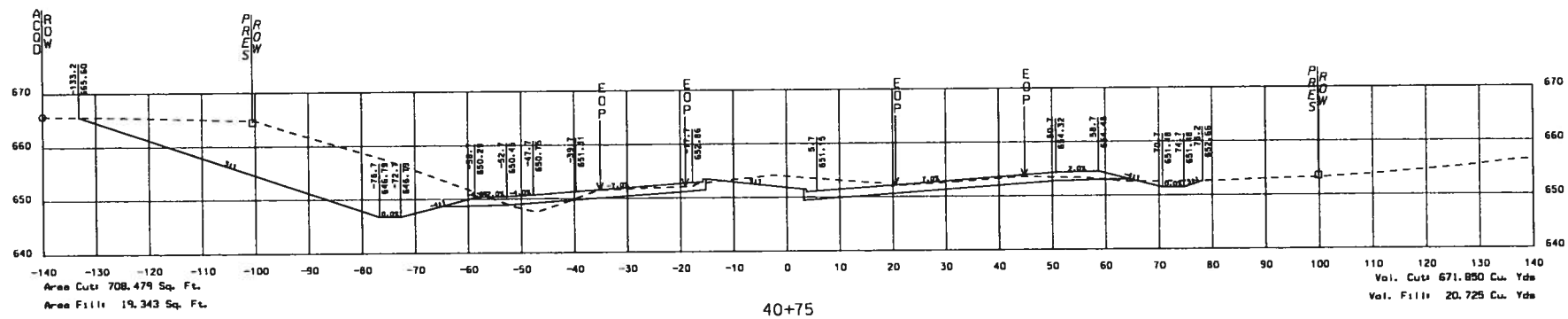
39+75

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

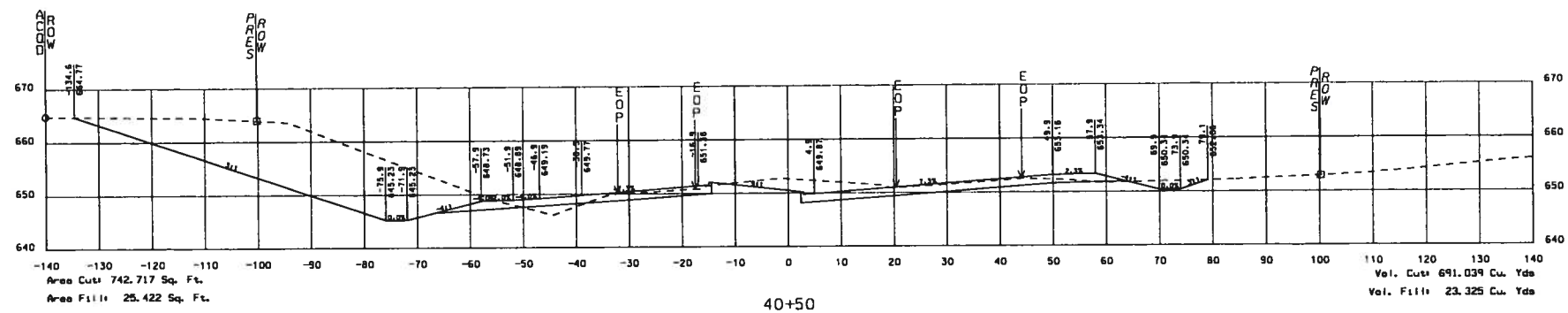
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	117



41+00



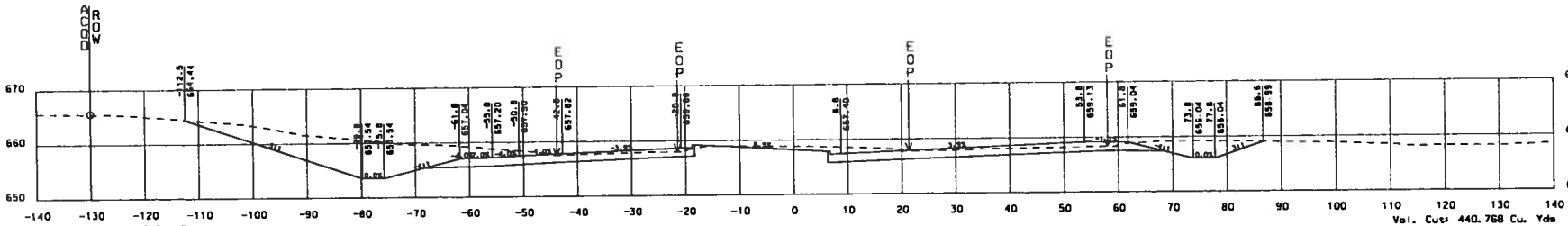
40+75



40+50

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

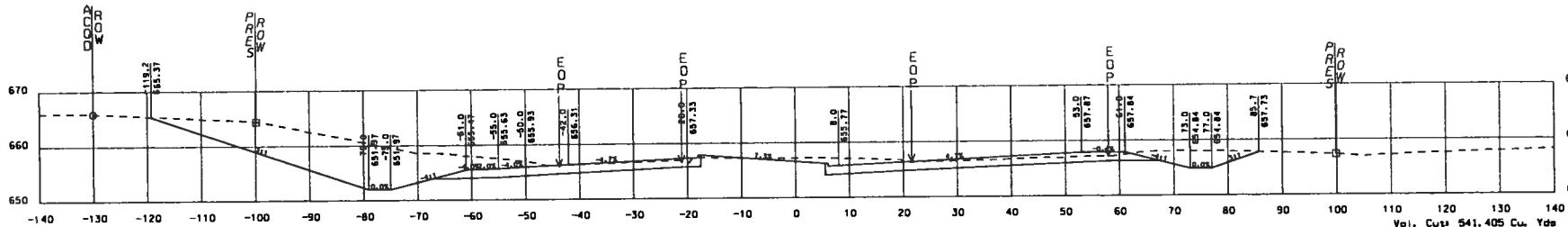
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (800)	2012	118



Area Cut: 418.267 Sq. Ft.
Area Fill: 0.104 Sq. Ft.

Vol. Cut: 440.768 Cu. Yds
Vol. Fill: 0.066 Cu. Yds

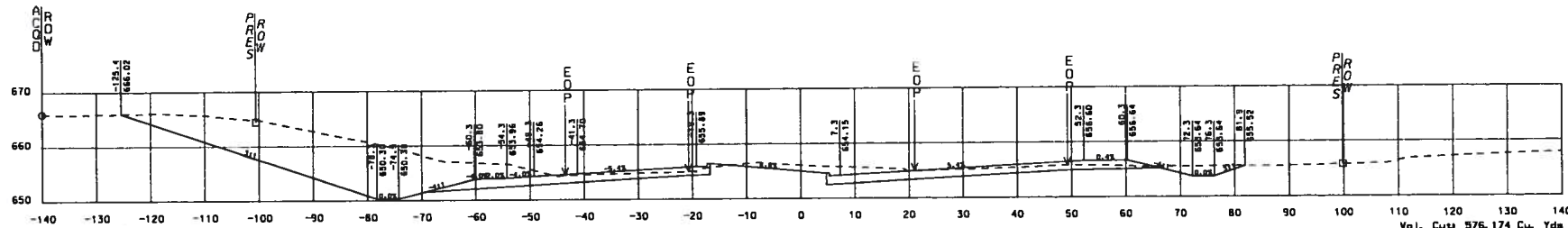
41+75



Area Cut: 533.791 Sq. Ft.
Area Fill: 0.037 Sq. Ft.

Vol. Cut: 541.405 Cu. Yds
Vol. Fill: 0.390 Cu. Yds

41+50



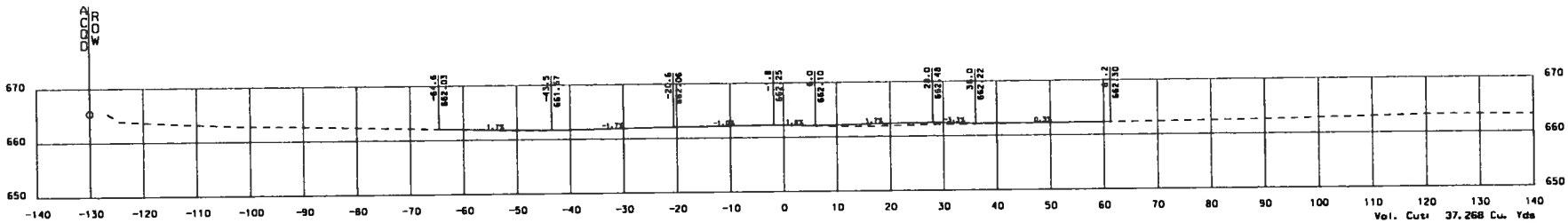
Area Cut: 635.643 Sq. Ft.
Area Fill: 0.804 Sq. Ft.

Vol. Cut: 576.174 Cu. Yds
Vol. Fill: 5.385 Cu. Yds

41+25

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

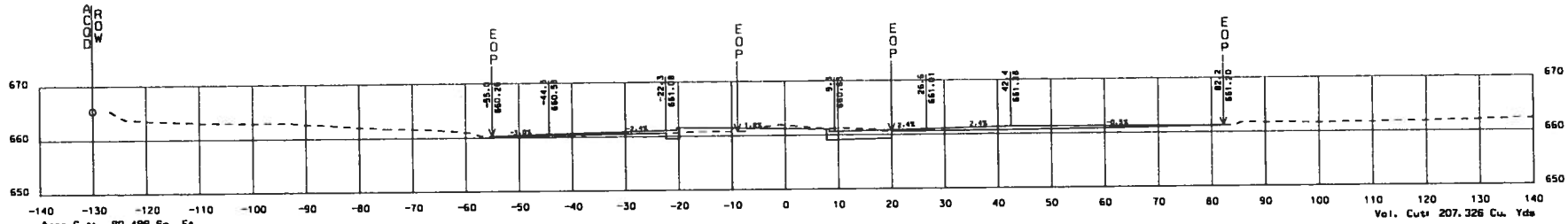
REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
STPAA-STPHV-6525 (800)	2012	119



Area Cut: 0.000 Sq. Ft.
Area Fill: 12.618 Sq. Ft.

Vol. Cut: 37.268 Cu. Yds
Vol. Fill: 6.516 Cu. Yds

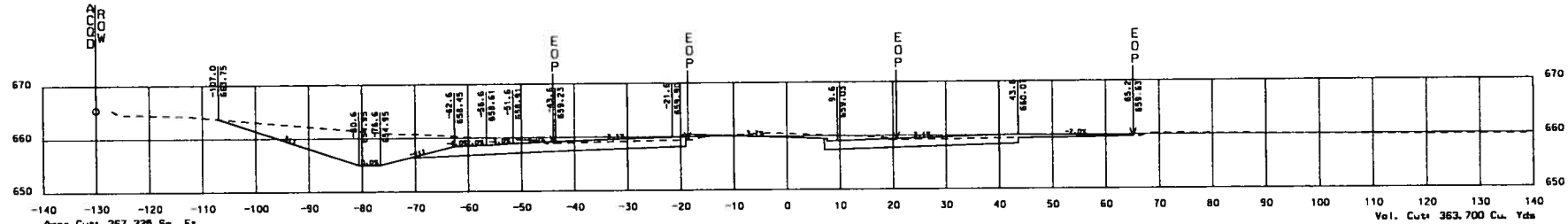
42+50



Area Cut: 80.499 Sq. Ft.
Area Fill: 1.457 Sq. Ft.

Vol. Cut: 207.326 Cu. Yds
Vol. Fill: 0.998 Cu. Yds

42+25



Area Cut: 367.325 Sq. Ft.
Area Fill: 0.699 Sq. Ft.

Vol. Cut: 363.700 Cu. Yds
Vol. Fill: 0.372 Cu. Yds

42+00

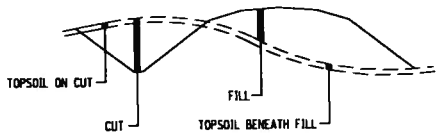
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	10 5 0 10 SCALE IN FEET	OLD MADISON PIKE CROSS SECTIONS	ROUTE CR-17
DATE:	DATE:	DATE:					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	120

SUMMARY OF QUANTITIES

PROJECT NO. STPAA-STPHV-8525 (600)
MADISON COUNTY

GN-2 NOTES
148



EARTHWORK SUMMARY

UNCLASSIFIED EXCAVATION: TOPSOIL BENEATH FILL	=	2103 CY
CUT	=	20490 CY
UNSUITABLE MATERIAL	=	1050 CY
PAVEMENT REMOVAL	=	1234 CY
SUMP EXCAVATION	=	240 CY

TOTAL UNCLASSIFIED EXCAVATION (210A-000):	=	25117 CY
BORROW EXCAVATION (210D-000):	=	25376 CY
BORROW EXCAVATION (LIGHTWEIGHT AGGREGATE) (ALDOT #2 STONE) (210F-005):	=	500 TONS
BORROW EXCAVATION (UNDERWATER BACKFILL) (210F-001):	=	2900 TONS

TOPSOIL FROM STOCKPILES: TOPSOIL ON CUT	=	4731 CY
TOPSOIL BENEATH FILL	=	6108 CY
TOTAL TOPSOIL AVAILABLE:	=	10839 CY
TOTAL TOPSOIL REQUIRED:	=	7933 CY
TOTAL TOPSOIL FROM STOCKPILES (650B-000):	=	7933 CY

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	EARTHWORK SUMMARY	ROUTE CR-17
DATE:	DATE:	DATE:				

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPAA-STPHV-8525 (600)	2012	120

SUMMARY OF QUANTITIES

PROJECT NO. STPAA-STPHV-8525 (600)
MADISON COUNTY

SUBTOTALS

CUT:	SOIL	20490 C.Y.	1
	SUMP EXCAVATION	240 C.Y.	2
	PAVEMENT REMOVAL	1234 C.Y.	3
	UNSUITABLE MATERIAL	1050 C.Y.	4
FILL:		38946 C.Y.	5
TOPSOIL:	CUT	2049 C.Y.	6
	FILL	2103 C.Y.	7

UNCLASSIFIED EXCAVATION = 1 + 2 + 3 + 4 + 7 = 25117 C.Y.

REQUIRED FILL = (4 + 5 + 7) = 42099 C.Y.

MATERIAL AVAILABLE FOR FILL = (1 + 3 - 6) - 15% = 16723 C.Y.

BORROW = (REQUIRED FILL - AVALABLE FILL)

= (42099 - 16723)

= 25376 C.Y.

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	EARTHWORK SUMMARY	ROUTE CR-17
DATE:	DATE:	DATE:				