



# Final Documentation Seminar



**Presented By  
Mobile County Public Works  
Engineering Department**

**February 23, 2011**



**“Please  
Turn Off  
Your  
Cell Phones”**



**I Said  
“Turn Off  
Your  
Cell Phones.”  
“Now”**



# **James Vorpahl, P.E.**

## **Mobile County Public Works**

### **Proper Documentation Submittal**



# MOBILE COUNTY ENGINEERING DEPARTMENT PECAN STREET - WHISPERING OAKS SUBDIVISION DRAINAGE IMPROVEMENTS

MCP-303-08  
APRIL 2009

## INDEX OF SHEETS

NO. SHEET TITLE SHEET

MOBILE COUNTY ENGINEERING DEPARTMENT

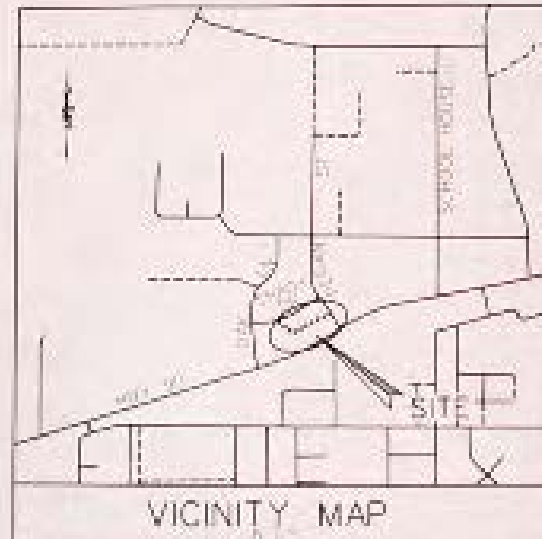
INSPECTOR'S DAILY REPORT

Project Name: PECAN STREET - WHISPERING OAKS SUBDIVISION

Project Location: 35. TOWNSHIP 6 SOUTH, RANGE 4 WEST

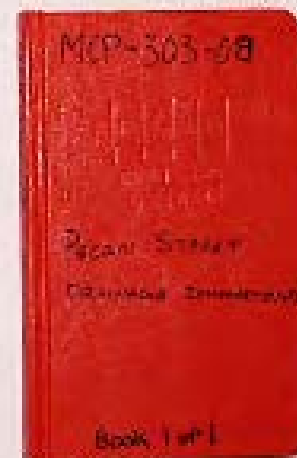
Project Description: Drainage Improvements

Project Number: 1 of 4

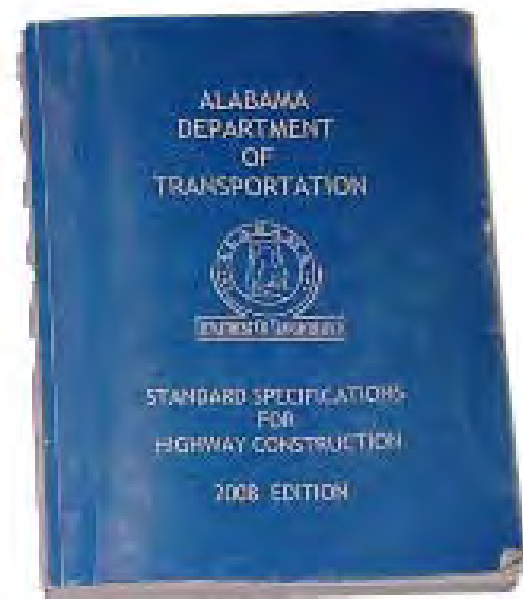


## ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL AND STANDARD CHARTERS, 2008 EDITION

CHARTER NO.	CHARTER TITLE	CHARTER DESCRIPTION
101	CHARTER 101	STANDARD CHARTER FOR THE STATE OF ALABAMA
102	CHARTER 102	STANDARD CHARTER FOR THE STATE OF ALABAMA
103	CHARTER 103	STANDARD CHARTER FOR THE STATE OF ALABAMA
104	CHARTER 104	STANDARD CHARTER FOR THE STATE OF ALABAMA

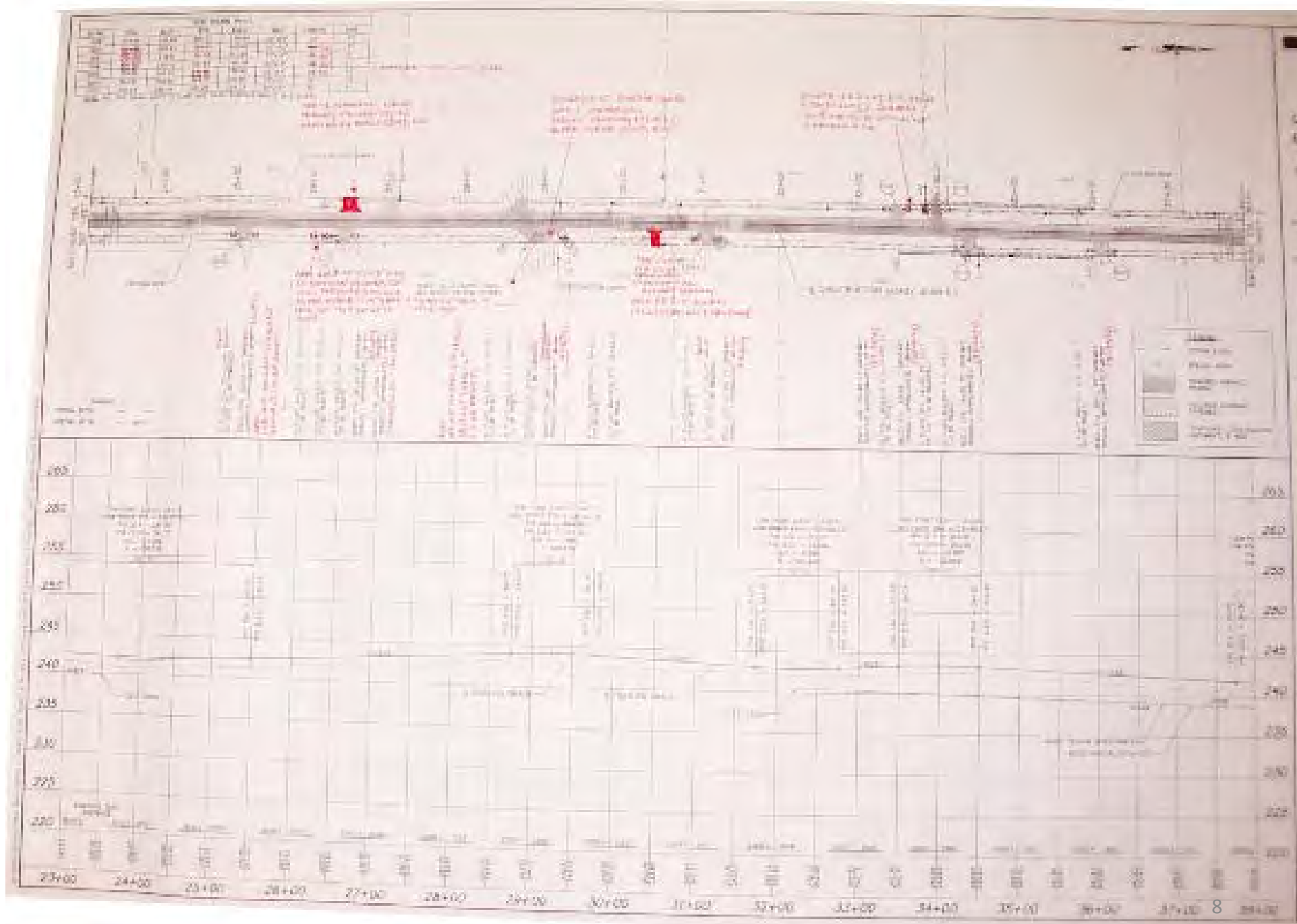


35. TOWNSHIP 6 SOUTH, RANGE 4 WEST





DATE	DESCRIPTION	AMOUNT	BALANCE
1/1	Balance		100.00
1/2	1/2	100.00	200.00
1/3	1/3	100.00	300.00
1/4	1/4	100.00	400.00
1/5	1/5	100.00	500.00
1/6	1/6	100.00	600.00
1/7	1/7	100.00	700.00
1/8	1/8	100.00	800.00
1/9	1/9	100.00	900.00
1/10	1/10	100.00	1000.00
1/11	1/11	100.00	1100.00
1/12	1/12	100.00	1200.00
1/13	1/13	100.00	1300.00
1/14	1/14	100.00	1400.00
1/15	1/15	100.00	1500.00
1/16	1/16	100.00	1600.00
1/17	1/17	100.00	1700.00
1/18	1/18	100.00	1800.00
1/19	1/19	100.00	1900.00
1/20	1/20	100.00	2000.00
1/21	1/21	100.00	2100.00
1/22	1/22	100.00	2200.00
1/23	1/23	100.00	2300.00
1/24	1/24	100.00	2400.00
1/25	1/25	100.00	2500.00
1/26	1/26	100.00	2600.00
1/27	1/27	100.00	2700.00
1/28	1/28	100.00	2800.00
1/29	1/29	100.00	2900.00
1/30	1/30	100.00	3000.00
1/31	1/31	100.00	3100.00
2/1	2/1	100.00	3200.00
2/2	2/2	100.00	3300.00
2/3	2/3	100.00	3400.00
2/4	2/4	100.00	3500.00
2/5	2/5	100.00	3600.00
2/6	2/6	100.00	3700.00
2/7	2/7	100.00	3800.00
2/8	2/8	100.00	3900.00
2/9	2/9	100.00	4000.00
2/10	2/10	100.00	4100.00
2/11	2/11	100.00	4200.00
2/12	2/12	100.00	4300.00
2/13	2/13	100.00	4400.00
2/14	2/14	100.00	4500.00
2/15	2/15	100.00	4600.00
2/16	2/16	100.00	4700.00
2/17	2/17	100.00	4800.00
2/18	2/18	100.00	4900.00
2/19	2/19	100.00	5000.00
2/20	2/20	100.00	5100.00
2/21	2/21	100.00	5200.00
2/22	2/22	100.00	5300.00
2/23	2/23	100.00	5400.00
2/24	2/24	100.00	5500.00
2/25	2/25	100.00	5600.00
2/26	2/26	100.00	5700.00
2/27	2/27	100.00	5800.00
2/28	2/28	100.00	5900.00
2/29	2/29	100.00	6000.00
2/30	2/30	100.00	6100.00
2/31	2/31	100.00	6200.00
3/1	3/1	100.00	6300.00
3/2	3/2	100.00	6400.00
3/3	3/3	100.00	6500.00
3/4	3/4	100.00	6600.00
3/5	3/5	100.00	6700.00
3/6	3/6	100.00	6800.00
3/7	3/7	100.00	6900.00
3/8	3/8	100.00	7000.00
3/9	3/9	100.00	7100.00
3/10	3/10	100.00	7200.00
3/11	3/11	100.00	7300.00
3/12	3/12	100.00	7400.00
3/13	3/13	100.00	7500.00
3/14	3/14	100.00	7600.00
3/15	3/15	100.00	7700.00
3/16	3/16	100.00	7800.00
3/17	3/17	100.00	7900.00
3/18	3/18	100.00	8000.00
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3/23	3/23	100.00	8500.00
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3/26	3/26	100.00	8800.00
3/27	3/27	100.00	8900.00
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3/30	3/30	100.00	9200.00
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4/2	4/2	100.00	9500.00
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4/9	4/9	100.00	10200.00
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4/13	4/13	100.00	10600.00
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4/28	4/28	100.00	12100.00
4/29	4/29	100.00	12200.00
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4/31	4/31	100.00	12400.00
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5/11	5/11	100.00	13500.00
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5/28	5/28	100.00	15200.00
5/29	5/29	100.00	15300.00
5/30	5/30	100.00	15400.00
5/31	5/31	100.00	15500.00
6/1	6/1	100.00	15600.00
6/2	6/2	100.00	15700.00
6/3	6/3	100.00	15800.00
6/4	6/4	100.00	15900.00
6/5	6/5	100.00	16000.00
6/6	6/6	100.00	16100.00
6/7	6/7	100.00	16200.00
6/8	6/8	100.00	16300.00
6/9	6/9	100.00	16400.00
6/10	6/10	100.00	16500.00
6/11	6/11	100.00	16600.00
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6/13	6/13	100.00	16800.00
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6/17	6/17	100.00	17200.00
6/18	6/18	100.00	17300.00
6/19	6/19	100.00	17400.00
6/20	6/20	100.00	17500.00
6/21	6/21	100.00	17600.00
6/22	6/22	100.00	17700.00
6/23	6/23	100.00	17800.00
6/24	6/24	100.00	17900.00
6/25	6/25	100.00	18000.00
6/26	6/26	100.00	18100.00
6/27	6/27	100.00	18200.00
6/28	6/28	100.00	18300.00
6/29	6/29	100.00	18400.00
6/30	6/30	100.00	18500.00
7/1	7/1	100.00	18600.00
7/2	7/2	100.00	18700.00
7/3	7/3	100.00	18800.00
7/4	7/4	100.00	18900.00
7/5	7/5	100.00	19000.00
7/6	7/6	100.00	19100.00
7/7	7/7	100.00	19200.00
7/8	7/8	100.00	19300.00
7/9	7/9	100.00	19400.00
7/10	7/10	100.00	19500.00
7/11	7/11	100.00	19600.00
7/12	7/12	100.00	19700.00
7/13	7/13	100.00	19800.00
7/14	7/14	100.00	19900.00
7/15	7/15	100.00	20000.00
7/16	7/16	100.00	20100.00
7/17	7/17	100.00	20200.00
7/18	7/18	100.00	20300.00
7/19	7/19	100.00	20400.00
7/20	7/20	100.00	20500.00
7/21	7/21	100.00	20600.00
7/22	7/22	100.00	20700.00
7/23	7/23	100.00	20800.00
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7/25	7/25	100.00	21000.00
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8/7	8/7	100.00	22300.00
8/8	8/8	100.00	22400.00
8/9	8/9	100.00	22500.00
8/10	8/10	100.00	22600.00
8/11	8/11	100.00	22700.00
8/12	8/12	100.00	22800.00
8/13	8/13	100.00	22900.00
8/14	8/14	100.00	23000.00
8/15	8/15	100.00	23100.00
8/16	8/16	100.00	23200.00
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8/20	8/20	100.00	23600.00
8/21	8/21	100.00	23700.00
8/22	8/22	100.00	23800.00
8/23	8/23	100.00	23900.00
8/24	8/24	100.00	24000.00
8/25	8/25	100.00	24100.00
8/26	8/26	100.00	24200.00
8/27	8/27	100.00	24300.00
8/28	8/28	100.00	24400.00
8/29	8/29	100.00	24500.00
8/30	8/30	100.00	24600.00
8/31	8/31	100.00	24700.00
9/1	9/1	100.00	24800.00
9/2	9/2	100.00	24900.00
9/3	9/3	100.00	25000.00
9/4	9/4	100.00	25100.00
9/5	9/5	100.00	25200.00
9/6	9/6	100.00	25300.00
9/7	9/7	100.00	25400.00
9/8	9/8	100.00	25500.00
9/9	9/9	100.00	25600.00
9/10	9/10	100.00	25700.00
9/11	9/11	100.00	25800.00
9/12	9/12	100.00	25900.00
9/13	9/13	100.00	26000.00
9/14	9/14	100.00	26

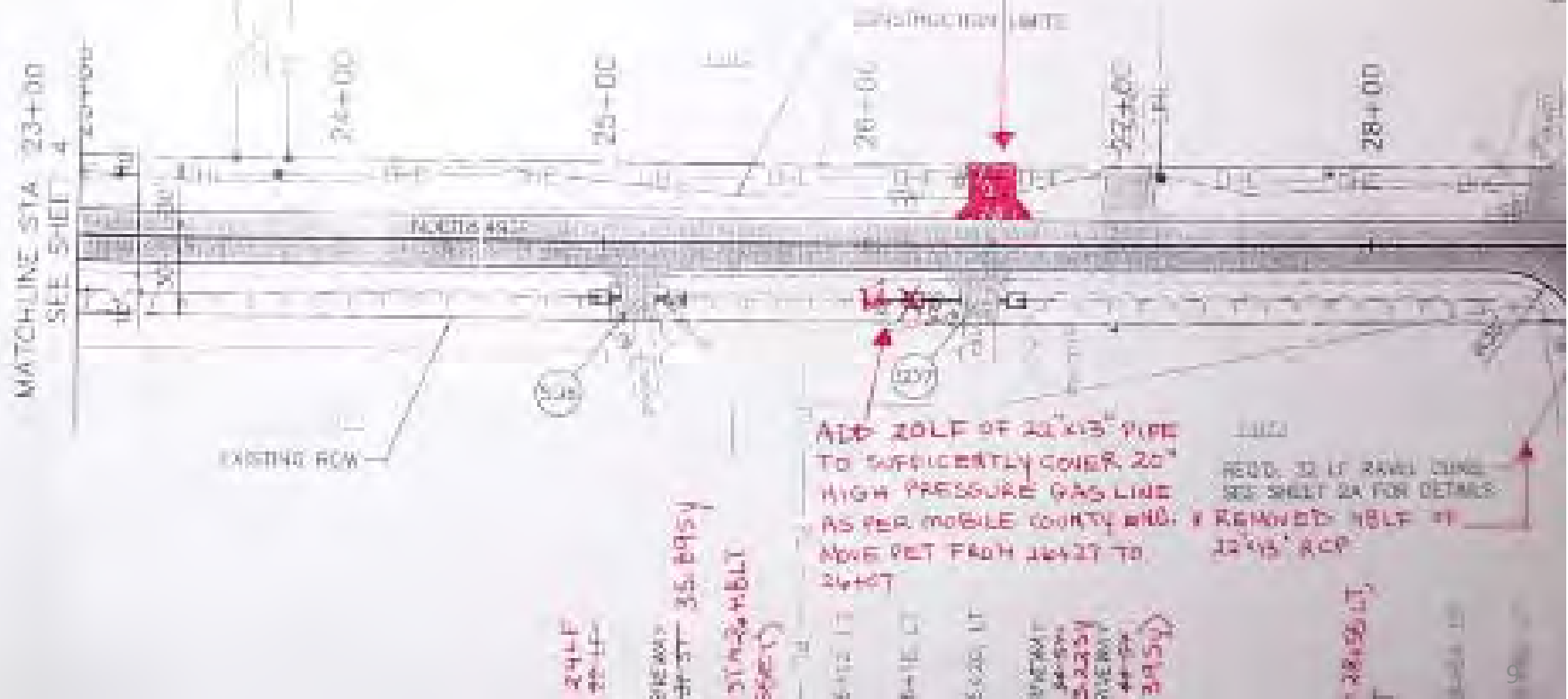


SIDE DRAIN PIPES							
ID NO	STA	ELEV	STA	ELEV	SIZE	LENGTH	SIDE
S06	24+95	239.88	25+37	239.98	22"x13"	36'	RT
S07	<del>25+00</del>	240.44	26+03	240.02	22"x13"	<del>44' 54"</del>	RT
S08	<del>25+00</del>	241.11	31+24	240.83	22"x13"	<del>54' 80"</del>	RT
S09	<del>25+00</del>	240.10	33+83	240.08	22"x13"	<del>44' 35"</del>	LT
S010	33+83	240.02	<del>34+16</del>	239.06	22"x13"	<del>44' 35"</del>	LT
S011	34+27	239.35	<del>34+57</del>	238.80	22"x13"	36'	RT
S012	35+00	239.44	36+25	239.33	22"x13"	36'	RT

NOTE: ALL SIDE DRAIN PIPES TO HAVE SOI DRAIN END TREATMENTS (4:1 G/PE)

REMOVED - 20 LF 22"x13" TOTAL

ADD - 1 RESIDENTIAL ASPHALT (28' 9" 54")  
 DRIVEWAY STA 26+50 NTC AND  
 DIRECTED BY MOBILE COUNTY ENG.



ADD 20 LF OF 22"x13" PIPE  
 TO SUFFICIENTLY COVER 20"  
 HIGH PRESSURE GAS LINE  
 AS PER MOBILE COUNTY ENG. & REMOVED 48 LF OF  
 MOVE DET FROM 26+27 TO  
 26+07

ADD 32 LF RAVEL CURB  
 SEE SHEET 2A FOR DETAILS  
 REMOVED 48 LF OF  
 22"x13" RCP

24 LF  
 22 LF

21 LF  
 22 LF

31 LF  
 22 LF

24 LF  
 22 LF

24 LF  
 22 LF

24 LF  
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24 LF  
 22 LF

24 LF  
 22 LF

24 LF  
 22 LF



# **Johnny Harper, P.E.**

## **Mobile County Public Works**

### **Proper Documentation Submittal**



## Mobile County Engineering Department

Inspector's Daily Report

Rain Gauge Reading 0 in. Time checked 8:15 AM

Project No. MCR-2008-2 Alt. Project No. \_\_\_\_\_ Day & Date Tuesday 3-3-11  
 Project Name City Streets #2 Controlling Item of Work Base & Concrete P.E.T  
 Work Day YES Work Day Number 24 Time Work Started \_\_\_\_\_ Stopped \_\_\_\_\_ Hours Worked \_\_\_\_\_  
 Reason for not charging working day if none charged: \_\_\_\_\_  
 Contractor's Forces: Supt. 1 Foreman 1 Operators 1 Laborers: Skilled 2 Unskilled \_\_\_\_\_  
 Others \_\_\_\_\_  
 Engineering Personnel: (Name & hours worked on Project this date) Jason Smith ET-1, John Doe ET-3

## Contractor's Equipment On Project

Number & Type	Operating	Not Operating	Reason Not Operating
1- Truck Hoe		✓	
1- Rubber Tire Hoe		✓	
1- Pick Up		✓	Transportation Only
1- Dozer	✓		
2- Dump Trucks	✓		

## DETAILS OF DAILY OPERATIONS &amp; PAY ITEMS COMPLETED THIS DATE

Asphalt Co. Inc. Richard Nicks/Super stopped by to check on the progress of the work being completed. He stated they should be paving in 2 weeks.

H + H Concrete 1- Foreman, 3- Skilled, 1- Rubber Tire Hoe  
 1- Concrete Trucks  
 They poured 3 P.E.T at the following locations  
 36x100 RT, 36x100 LT & 48x14 RT. All 3 P.E.T are  
 Side Drains. All Rebar & steel was placed according  
 to ALDOT standard Drawings. The Geotech made 1 set  
 of 3 cylinders, SEE BMT-23. They used 3.98 YD<sup>3</sup>  
 and delivered 4.5 YD<sup>3</sup> of Concrete.

B+B Pipe 1- Foreman, 1- Unskilled, 1- Pickup  
 1- Rubber Tire Hoe, 1- Flat Bed Truck  
 They delivered 40 feet of 36" Road Way Pipe -  
 Concrete at 3:30 today. All Pipes have been  
 inspected and they all have been stamped  
 MOCO. The sub stated that they should lay  
 the rest of the pipe tomorrow.

Jason Smith  
 Inspector

Visitors Geotech was Present 4 HRS - Concrete Testing 8-12pm  
"Continued Next Page"

## Mobile County Engineering Department

Inspector's Daily Report

Rain Gauge Reading \_\_\_\_\_ in. Time checked \_\_\_\_\_

Project No. MCR-2008-2 Alt. Project No. \_\_\_\_\_ Day & Date Tuesday 3-3-11  
 Project Name \_\_\_\_\_ Controlling Item of Work \_\_\_\_\_  
 Work Day \_\_\_\_\_ Work Day Number \_\_\_\_\_ Time Work Started \_\_\_\_\_ Stopped \_\_\_\_\_ Hours Worked \_\_\_\_\_  
 Reason for not charging working day if none charged: \_\_\_\_\_  
 Contractor's Forces: Supt. \_\_\_\_\_ Foreman \_\_\_\_\_ Operators \_\_\_\_\_ Laborers: Skilled \_\_\_\_\_ Unskilled \_\_\_\_\_  
 Others \_\_\_\_\_  
 Engineering Personnel: (Name & hours worked on Project this date) \_\_\_\_\_

## Contractor's Equipment On Project

Number & Type	Operating	Not Operating	Reason Not Operating
"Continued"			

## DETAILS OF DAILY OPERATIONS &amp; PAY ITEMS COMPLETED THIS DATE

210A-001 Borrow A2 Better 10 loads @ approx 21 YD<sup>3</sup>  
 535A-000 18" Side Drain P.E.T 1 @ 1.35 YD<sup>3</sup> Concrete  
 535B-000 24" SD P.E.T 1 @ 1.65 YD<sup>3</sup> Concrete  
 535B-001 11"x18" SD P.E.T 1 @ 0.98 YD<sup>3</sup> Concrete

I visited the site today and found everything moving along according to the plans. I spoke with both inspectors and informed them that we have some cold weather moving in, and not to pour any concrete ~~just~~ when the temp was going to be near or below the 45°F limit. They informed me of no current problems with construction.

Eric Long  
 Project Engineer

Jason Smith  
 Inspector

Visitors \_\_\_\_\_

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**[CLICK HERE TO BEGIN](#)**

**Exit**





Contract Info

Monthly Info

EXIT

## Project Bid Information



**Project Number**

**Month Bid**

**ALDOT Asphalt.com**

**Year Bid**

**ALDOT Fuel.com**

### **BASE BID INDEX ONLY**

**PG Asphalt**

**Emulsified Asphalt**

**HMA Fuel**

**COMPLETE**





## BITUMINIOUS & FUEL PRICE ADJUSTMENTS FOR ASPHALT, TACK & HMA

Month Placed

Year Placed

### ASPHALT & FUEL INFORMATION

### TACK INFORMATION

	<u>Pay Item #</u>	<u>Date</u>	<u>% Virgin AC</u>	<u>Tons Used</u>	<u>Pay Item #</u>	<u>Description</u>	<u>Gall @ 60</u>
PG Asphalt Index <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Emulsified Index <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Fuel Production Index <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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ALDOT Asphalt.com

ALDOT Fuel.com

COMPLETE



# **Dennis Brady** **Mobile County Public Works**

## **Proper** **Documentation** **Submittal**



# Required Documentation for Final Estimate Submittal

1. As Built Plans: 1 set original, 1 set prints.
2. Final Estimate
3. Supporting information and documents for all pay items including calculations, must be in a field book written in pencil. (Original and Copy)
4. Inspector Daily Reports MCIR-1 form (Hand Written)
5. Soil Report (1 copy)
6. Bound copy of all test reports (See Handout)
7. Asphalt job mix formula, QC/QA packets, Bituminous Price Adjustments, tickets, cross-slope information, certification letter (see example Pg. 56 of Reference Manual)
  - ❖ All information to be turned in with monthly estimate for any month asphalt is placed.
8. Concrete Mix Design & Placement Reports (MC-83 or equal)

## **Required Documentation for Final Estimate Submittal**

9. Haul tickets (MC-LT) for Borrow Excavation with tabulation attached along with truck bed measurements.
10. Haul tickets (MC-LT) for Topsoil with tabulation attached along with measured areas of Topsoil placement. If TBM units are used truck bed measurements must be supplied.
11. All material tickets. (i.e. concrete, riprap, aggregate surfacing, etc.)
12. Proof of Advertisement of Project Completion. (original & 1 copy)
13. Consent of Surety to pay Contractor's Retainage. (original & 1 copy)
14. Affidavit for Payment of Debts incurred on construction project. (original & 1 copy)

## **Required Documentation for Final Estimate Submittal (continued)**

15. Final Progress Report, including start date and final inspection date (original & 1 copy)
16. Recap of overrun for each item that exceeds plan quantity by more than 5%. (original & 1 copy)
17. Copies of all ALDOT Standard Drawings referenced for project.
18. Field notes for original and final cross-section taken as per Engineering Services Contract. (1 copy each)
19. Final right-of-way map for recording.
20. Miscellaneous Items (Waterline Documentation)

# GENERAL INFORMATION FOR AS-BUILTS

## 1. Summary of Quantities

Include Plan Quantity, As-Built Quantity, Description (Example Next Page) and where Back-Up Information may be found.

## 2. Cross- Section Sheets

Show Final Cut and Fill Areas as well as Volumes next to Each Station for Unclassified Excavation\*. Final Quantity for Unclassified Excavation is determined by the Average End Area Method.

On cross sections all break points and intersection points on original surface and as-built surface must be labeled with offset and elevations.

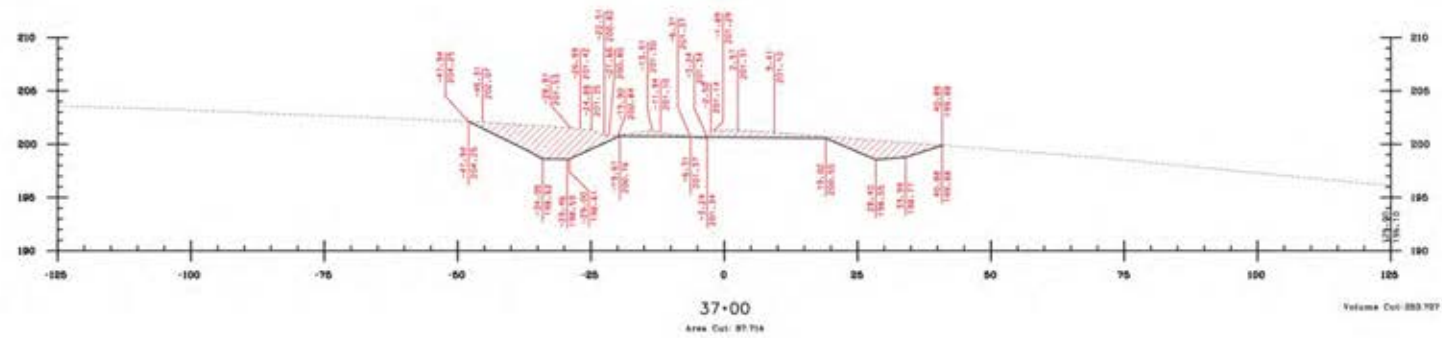
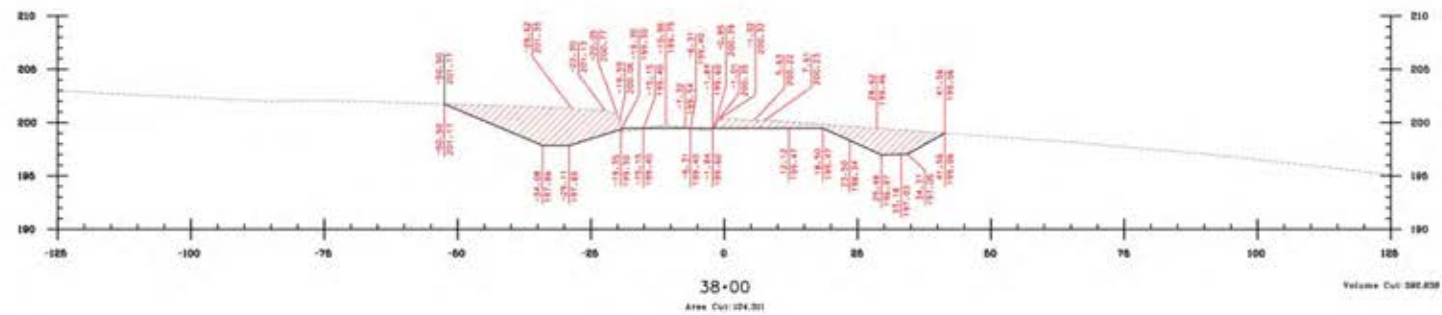
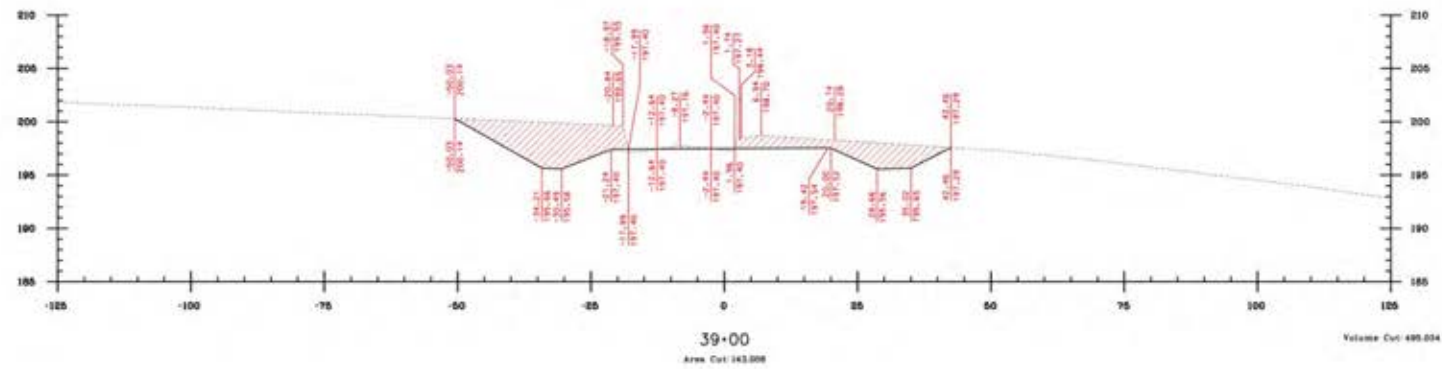
If total station is used, submit the pre-construction and post construction ASCII files with a letter from the surveyor or engineer attesting to the fact that the information shown on the cross sections was extracted from the above-referenced ASCII files. If total station was not used, submit the field book containing all level work.

\*Refer to example following Summary of Quantities Sheet

**SUMMARY OF QUANTITIES**  
**PROJECT NO. MCR-2004- ( )**  
**COUNTY OF MOBILE, ALABAMA**

ITEM NO	PLAN QUANTITY	AS-BUILT QUANTITY	UNIT	DESCRIPTION	REMARKS
201A-002	1	1	LUMP SUM	CLEARING & GRUBBING (APPROXIMATELY 3 ACRES) (MAXIMUM ALLOWABLE BID \$4000/ACRE)	Bk 1, Pg 1
208C-010	188	371.6	SQUARE YARD	REMOVING CONCRETE DRIVEWAY	Bk 1, Pg 2
208D-000	205	289.0	LINEAR FEET	REMOVING PIPE	Bk 1, Pg 3
208E-000	11	12	EACH	REMOVING HEADWALLS	Bk 1, Pg 4
208A-000	28	31	EACH	MAILBOX RESET, SINGLE	Bk 1, Pg 5
209A-002	1	1	EACH	MAILBOX RESET, MULTIPLE	Bk 1, Pg 6
210A-000	7155	5752	CUBIC YARD	UNCLASSIFIED EXCAVATION	Bk 1, Pg 7
210D-001	6197	7882	CUBIC YARD	BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)	Bk 1, Pg 8
214A-000	272	408	CUBIC YARD	STRUCTURE EXCAVATION	Bk 1, Pg 9
214B-000	182	0	CUBIC YARD	FOUNDATION BACKFILL, LOCAL	Bk 1, Pg 10
230A-000	22	22	ROADBED STATION	ROADBED PROCESSING	Bk 1, Pg 11
301A-012	6000	3392.2	SQUARE YARD	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS	Bk 1, Pg 12
401A-000	3600	1872	SQUARE YARD	BITUMINOUS TREATMENT A	Bk 1, Pg 13
405A-000	5700	7458	GAL	TACK COAT	Bk 1, Pg 14 & 15
429A-220	6000	6053.38	TON	IMPROVED BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE B	Bk 1, Pg 16 to 18
429B-221	750	391.94	TON	IMPROVED BITUMINOUS CONCRETE BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE B	Bk 1, Pg 19
429B-226	200	0	TON	IMPROVED BITUMINOUS CONCRETE BINDER LAYER, PATCHING, 1 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE B	Bk 1, Pg 20
429B-227	7780	8261.88	TON	IMPROVED BITUMINOUS CONCRETE BINDER LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE B	Bk 1, Pg 21 to 23
429C-231	3000	2085.39	TON	IMPROVED BITUMINOUS CONCRETE BASE LAYER, WIDENING, 1 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE B	Bk 1, Pg 24 & 25
430B-040	500	145.3	TON	AGGREGATE SURFACING (CRUSHED AGGREGATE BASE, TYPE B)	Bk 1, Pg 26
530A-001	40	40.00	LINEAR FEET	18" ROADWAY PIPE (CLASS 3 R.C.)	Bk 1, Pg 27
530A-004	18	16.00	LINEAR FEET	36" ROADWAY PIPE (CLASS 3 R.C.)	Bk 1, Pg 28
530A-101	24	48.00	LINEAR FEET	18" ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)	Bk 1, Pg 29
530A-102	72	16.00	LINEAR FEET	24" ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)	Bk 1, Pg 30
530A-104	32	0	LINEAR FEET	36" ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)	Bk 1, Pg 31
530B-001	70	72.00	LINEAR FEET	22" SPAN, 14" RISE ROADWAY PIPE (CLASS 3 R.C.)	Bk 1, Pg 32
533A-098	438	438.00	LINEAR FEET	18" STORM SEWER PIPE (CLASS 3 R.C.)	Bk 1, Pg 33
533A-099	23	24.00	LINEAR FEET	24" STORM SEWER PIPE (CLASS 3 R.C.)	Bk 1, Pg 34
535A-078	248	312.00	LINEAR FEET	15" SIDE DRAIN PIPE (CLASS 3 R.C.)	Bk 1, Pg 35
535A-080	92	200.00	LINEAR FEET	18" SIDE DRAIN PIPE (CLASS 3 R.C.)	Bk 1, Pg 36

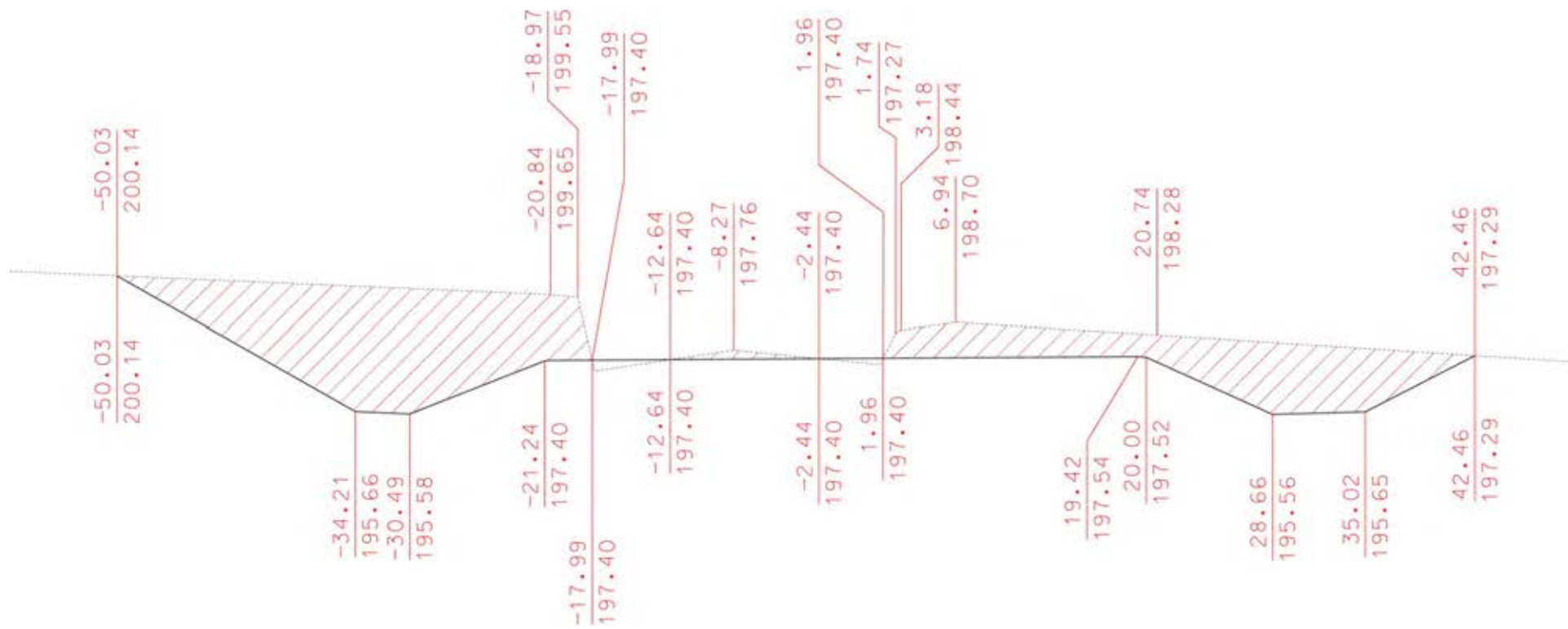
FED. AID DIST.	STATE	PROJECT NO.	FED. AID TRAIL NO.	PROJECT NO.	TOTAL WEEKS
				2008	



SCALE: HORIZ. 1"=30'  
VERT. 1"=5'

Sta38+00 - Sta39+00





# **GENERAL INFORMATION FOR AS-BUILTS (continued)**

## **3. Drainage Sheets**

Show Pipe End Treatments, Drainage Structures, Pipes, Rip-Rap and Filter Blanket for Roadway Drainage. If structure excavation and foundation backfill is required then they should also be shown on these sheets.

## **4. Index for Standard Drawings and Special Drawings**

List what page number drawings can be found from the ALDOT Standard Drawing Book. Also, provide a Standard Drawing Number and a Description. A hard copy of any Special Drawing Sheets not included in the ALDOT Standard Drawing Book as well as copies of all ALDOT Standard Drawings Referenced for projects are required.

# PLAN AND PROFILE SHEETS

The following should be shown on the plan and profile sheets for both installation and removal of the following item:

## 1. **Pipes** (Example Next Page)

- Locations by Upstream and Downstream Stations
- Lengths
- Size
- Type
- Class
- Skew (for installation only)
- Invert Elevations

72 LIN FT  
L 3, RDWY  
~~50%~~ 0.71%

PE

REQD SPECIAL  
DITCH, TYPE S-4

CNSTR RE-ALIGNMENT  
GRAND BAY - WILMER RD.

SD  
1

~~REQD~~ STA 129+06 (RT) TO 129+38 (RT), ~~30~~ 32 LIN FT  
18" RCP SD PIPE, CLS 3 @ ~~1.13%~~ 1.31%  
W/(2)18" SD PET, CLS 1, 4:1 SLOPE  
FL (IN)=~~161.68~~ 161.75  
FL (OUT)=~~161.34~~ 161.33

SD  
1

129+00

+33.6  
40' RT

4  
27A

PT  
Sta 129+33.63

33

# **PLAN AND PROFILE SHEETS**

**(continued)**

## **2. Drainage Structures**

- Location by Station
- Type
- Class
- Required Slope
- Weir Inlet (Throat, Bottom & Pipe Elevation)
- Grate Inlet (Grate, Bottom & Pipe Elevation)
- Junction Box (Top, Bottom & Pipe Elevation)

## **3. Drive Ways**

- Location by Stations
- Area (Removed & Placed)

# **PLAN AND PROFILE SHEETS**

(continued)

## **4. Concrete Items paid by cubic yard (Slope Paved Ditch and Minor Structure Concrete)**

- Provide Upstream and Downstream Stations for Concrete Ditches
- Quantity
- Type of Structure
- Length

## **5. Filter Blanket and Rip Rap**

- Location by Station
- Quantity
- Class
- Thickness
- Area Placed (SY)



**ITEM 430B-003, AGGREGATE SURFACING  
(#57 STONE)**

**ONE DEC. PLACE (TONS)**

DATE	STA	STA	QTY	TO DATE	EST. PAID	TICKET #
3-9-10	4 + 00 LT/RT	6 + 00 LT/RT	23.76	23.76	4	216066
3-10-10	2 + 00 LT/RT	4 + 00 LT/RT	25.41	49.17	4	216085

**REMARKS**

USED TO MAINTAIN SAFE TRAFFIC  
ACCESS DUE TO INTENSE RAINFALL  
CAUSING SLICK CONDITIONS @ 3" THICKNESS

PAY 49.2 TONS

400 FT

LT

6 FT

400 FT

RT

6 FT



# **Adrian Lang**

## **Mobile County Public Works**

### **Proper Documentation Submittal**

**MOBILE COUNTY PUBLIC WORKS  
ENGINEERING DEPARTMENT**
**CDBG PROJECTS ONLY PLANT MIX DAILY PLACEMENT REPORT**

Date \_\_\_\_\_

Project Number \_\_\_\_\_ Project Name \_\_\_\_\_

Location of Project \_\_\_\_\_

Contractor \_\_\_\_\_ Total Tons in Contract \_\_\_\_\_

Producer \_\_\_\_\_ Weather Today \_\_\_\_\_

Temperature: Today \_\_\_\_\_ °F, Low \_\_\_\_\_ °F, High \_\_\_\_\_ °F, Surface \_\_\_\_\_ °F

**Tack Coat**

**Tack Placed Today:** Sta. \_\_\_\_\_ to Sta. \_\_\_\_\_ Width: \_\_\_\_\_ ft. Area: \_\_\_\_\_ Sq. Yds.

**Today:** \_\_\_\_\_ Gallons \_\_\_\_\_ Gallons Per Sq. Yd.

**From Previous Report:** \_\_\_\_\_ Gallons \_\_\_\_\_ Sq. Yds.

**To Date:** \_\_\_\_\_ Gallons, \_\_\_\_\_ Sq. Yds.

**Tack Coat Placed to Date:** Sta. \_\_\_\_\_ to Sta. \_\_\_\_\_

**Plant Mix**

**Placed Today:** \_\_\_\_\_ Tons x 2000 = \_\_\_\_\_ Pounds Placed Today

**From Previous Report:** \_\_\_\_\_ Tons Delivery Temp. \_\_\_\_\_ Highest \_\_\_\_\_ Lowest \_\_\_\_\_

**Total Placed to Date:** \_\_\_\_\_ Tons x 2000 = \_\_\_\_\_ Total lbs. Placed to Date

Pay Item No. \_\_\_\_\_ Mix No. \_\_\_\_\_ Lot No. \_\_\_\_\_

Yield Each 1000 S.Y. (Approximate) This Date

Spread	From STA.	To STA.	Length	Width	Sq.Yds.	Tons	Pounds	Rate (LB/SY)	Required Rate
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Remarks \_\_\_\_\_

Inspector \_\_\_\_\_ Project Engineer \_\_\_\_\_

**MOBILE COUNTY PUBLIC WORKS  
ENGINEERING DEPARTMENT**
**PLANT MIX DAILY PLACEMENT REPORT**

Date \_\_\_\_\_

Project Number \_\_\_\_\_ Project Name \_\_\_\_\_

Location of Project \_\_\_\_\_

Contractor \_\_\_\_\_ Total Tons in Contract \_\_\_\_\_

Producer \_\_\_\_\_ Weather Today \_\_\_\_\_

Temperature: Today \_\_\_\_\_ °F, Low \_\_\_\_\_ °F, High \_\_\_\_\_ °F, Surface \_\_\_\_\_ °F

**Tack Coat**

**Tack Placed Today:** Sta. \_\_\_\_\_ to Sta. \_\_\_\_\_ Width: \_\_\_\_\_ ft. Area: \_\_\_\_\_ Sq. Yds.

**Today:** \_\_\_\_\_ Gallons \_\_\_\_\_ Gallons Per Sq. Yd.

**From Previous Report:** \_\_\_\_\_ Gallons \_\_\_\_\_ Sq. Yds.

**To Date:** \_\_\_\_\_ Gallons, \_\_\_\_\_ Sq. Yds.

**Tack Coat Placed to Date:** Sta. \_\_\_\_\_ to Sta. \_\_\_\_\_

**Plant Mix**

**Placed Today:** \_\_\_\_\_ Tons x 2000 = \_\_\_\_\_ Pounds Placed Today

**From Previous Report:** \_\_\_\_\_ Tons Delivery Temp. \_\_\_\_\_ Highest \_\_\_\_\_ Lowest \_\_\_\_\_

**Total Placed to Date:** \_\_\_\_\_ Tons x 2000 = \_\_\_\_\_ Total lbs. Placed to Date

Pay Item No. \_\_\_\_\_ Mix No. \_\_\_\_\_ Lot No. \_\_\_\_\_

Yield Each 5000 S.Y. (Approximate) This Date

Spread	From STA.	To STA.	Length	Width	Sq.Yds.	Tons	Pounds	Rate (LB/SY)	Required Rate
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Remarks \_\_\_\_\_

Inspector \_\_\_\_\_ Project Engineer \_\_\_\_\_

Wearing ①

Alabama Dept. of Transportation  
Bureau of Materials and Tests  
Testing Manual

BMT Forms and Worksheets  
BMT-4  
Revision: 5/11/01  
Page 1 of 1

# PLANT MIX DAILY PLACEMENT REPORT

Copies: Division  
File

Project Number: MCA-2008-302  
County: Mobile  
Division: 9th  
District Number:  
Date: 1-19-2010

Location of Project Bayou La Batre (Shell Belt Rd)  
Contractor H.O. Weaver & Sons Total Tons in Contract 2110  
Producer H.O. Weaver Weather Today Sunny  
Temperature: Today \_\_\_\_\_ °F (°C), Low 38 °F (°C), High 61 °F (°C), Surface \_\_\_\_\_ °F (°C)

## Tack Coat

Tack Placed Today Sta. Varies to Sta. Varies Width Varies Yds<sup>2</sup> (m<sup>2</sup>) 6369.53  
Gals (Liters) Used Today 585.00 Gals/Yd<sup>2</sup> (L/m<sup>2</sup>) 0.09  
From Previous Report: 0 Gallons (Liters) 0 Yd<sup>2</sup> (m<sup>2</sup>)  
Gals (Liters) Used to Date 585.00 Yds<sup>2</sup> (m<sup>2</sup>) to Date 6369.53  
Tack Coat Placed to Date: Sta. See Lay Sheet to Sta. See Lay Sheet

## Plant Mix

Tons (t) Placed Today 507.03 x 2000 = lbs. (x 1000 = kg.) Placed Today 1,014,060.00  
From Previous Report: 0 Delivery Temp. 320 °F (°C) 290 °F (°C) \_\_\_\_\_ °F (°C)  
Total Tons (t) Placed to Date 507.03 x 2000 = Total lbs. (x 1000 = Total kg.) Placed to Date \_\_\_\_\_  
Pay Item No. 429A Mix No. 1/2" Lot No. 1

Yield Each 5000 Yds<sup>2</sup> (m<sup>2</sup>) (Approximate) This Date

Spread	Station	Station	Width	Length	Yd <sup>2</sup> (m <sup>2</sup> )	Tons (t)	Lbs (kg)	Rate	Required
1	<u>Varies</u>	<u>Varies</u>	<u>Varies</u>	<u>589.00</u>	<u>581.74</u>	<u>26.15</u>	↓	↓	
2	<u>75+20</u>	<u>40+49</u>	<u>Varies</u>	<u>3471.00</u>	<u>3948.29</u>	<u>354.71</u>			
3	<u>39+74</u>	<u>25+62</u>	<u>Varies</u>	<u>1412.00</u>	<u>1723.40</u>				
4	<u>11+50</u>	<u>11+00</u>	<u>5.50</u>	<u>50.00</u>	<u>30.56</u>				
5	<u>9+50</u>	<u>8+80</u>	<u>11.00</u>	<u>70.00</u>	<u>85.56</u>	<u>126.17</u>			
6									
7			<u>Total</u>	<u>5592.00</u>	<u>6369.53</u>	<u>507.03</u>	<u>1,014,060.00</u>	<u>159.20</u>	<u>165</u> ✓
8									
9									
10									

Remarks See Lay Sheet For Details  
Inspector Jeffrey Long Project Engineer [Signature]  
Certification Expiration Date AMD-2206-C-11

ITEM #: 429A

PROJECT NO. MCR-2008-302

DATE: 1/19/2010

CONTRACTOR: H.O. WEAVER & SONS

DESCRIPTION: WEARING SURFACE 165 lbs/sqyd, 1/2" mix, range B

Load #	WIDTH	STA	STA	SQ. YD	SQ. YD DAY	5000 SQYD	TICKET #	TRUCK #	TONS	TONS DAY	TONS DATE	YIELD	YIELD DAY	5000 SY RATE
1	11.00	72 + 51	71 + 75	92.89	92.89		4152551	1227	26.15	26.15				Shell Belt
	11.00	67 + 01	66 + 86	18.33	111.22									
	11.00	64 + 55	64 + 20	42.78	154.00									
	10.00	56 + 54	56 + 08	51.11	205.11									
	4.00	55 + 76	55 + 68	3.56	208.67									
	10.00	51 + 77	51 + 65	13.33	222.00									
	8.50	37 + 14	36 + 43	67.06	289.06									
	6.50	35 + 58	35 + 04	39.00	328.06									
	9.50	33 + 35	32 + 98	39.06	367.12									
	9.75	33 + 35	32 + 82	57.42	424.54									
	6.50	44 + 93	45 + 10	12.28	436.82									
	9.00	47 + 00	47 + 45	45.00	481.82									
	10.00	51 + 65	51 + 77	13.33	495.15									
	5.00	51 + 77	52 + 20	23.89	519.04									
	7.00	55 + 76	55 + 68	6.22	525.26									
	5.00	64 + 39	64 + 49	5.56	530.82									
	9.75	75 + 67	75 + 20	50.92	581.74							89.90		
2	10.00	75 + 20	72 + 88	257.78	839.52		2563	1253	24.70	50.85		191.64		
3	10.00	72 + 88	71 + 45	158.89	998.41		2564	1228.0	24.77	75.62				
	11.25	71 + 45	71 + 05	50.00	1,048.41									
	10.00	71 + 05	70 + 50	61.11	1,109.52							183.48		
4	10.00	70 + 50	68 + 00	277.78	1,387.30		2565	1244	25.60	101.22		184.32		
5	10.00	68 + 00	65 + 85	238.89	1,626.19		2566	1256	25.31	126.53		211.90		
6	10.00	65 + 85	62 + 90	327.78	1,953.97		2571	1227	26.42	152.95		161.21		
7	10.00	62 + 90	60 + 30	288.89	2,242.86		2574	1253	24.63	177.58		170.51		
8	10.00	60 + 30	58 + 25	227.78	2,470.64		2575	1228	24.81	202.39		217.84		
9	10.17	58 + 25	55 + 05	361.60	2,832.24		2576	1244	25.87	228.26		143.09		
10	10.00	55 + 05	52 + 42	292.22	3,124.46		2578	1256	25.47	253.73		174.32		



ITEM #: 429A

MC-LS-1 REVISED 2-27-08

PROJECT NO. MCR-2008-302

CONTRACTOR: H.O. WEAVER & SONS

DATE: 1/19/2010

DESCRIPTION: WEARING SURFACE 165 lbs/sqyd, 1/2" mix, range B

Load #	WIDTH	STA	STA	SQ. YD	SQ. YD DAY	5000 SQYD	TICKET #	TRUCK #	TONS	TONS DAY	TONS DATE	YIELD	YIELD DAY	5000 SY RATE
11	10.00	52 + 42	49 + 80	291.11	3,415.57		2579	1227	26.62	280.35		182.89		
12	10.00	49 + 80	48 + 20	177.78	3,593.35		2581	1253	24.71	305.06				
	11.00	48 + 20	46 + 75	177.22	3,770.57							139.21		
13	11.38	46 + 75	44 + 95	227.60	3,998.17		2582	1228	25.28	330.34				
	10.88	44 + 95	44 + 33	74.95	4,073.12							167.11		
14	10.00	44 + 33	41 + 85	275.56	4,348.68		2587	1244	25.41	355.75		184.42		
15	12.00	41 + 85	40 + 49	181.33	4,530.01		2588	1256	25.11	380.86		276.95		
16	12.00	39 + 74	37 + 90	245.33	4,775.34		2590	1253	24.99	405.85				
	10.00	37 + 90	36 + 86	115.56	4,890.90									
	12.50	36 + 86	36 + 35	70.83	4,961.73							115.77		
17	12.50	36 + 35	34 + 13	308.33	5,270.06		2592	1228	25.27	431.12				
	10.00	34 + 13	33 + 50	70.00	5,340.06							133.59		
18	10.00	33 + 50	31 + 50	222.22	5,562.28		2593	1244	25.64	456.76				
	12.00	31 + 50	30 + 75	100.00	5,662.28							159.15		
19	12.00	30 + 75	30 + 62	17.33	5,679.61		2594	1256	25.11	481.87				
	10.80	30 + 62	29 + 96	79.20	5,758.81									
	12.00	29 + 96	29 + 51	60.00	5,818.81									
	10.17	29 + 51	28 + 25	142.38	5,961.19							168.01		
20	10.00	28 + 25	25 + 62	292.22	6,253.41		2595	1253	25.16	507.03				
	5.50	11 + 50	11 + 00	30.56	6,283.97									
	11.00	9 + 50	8 + 80	85.56	6,369.53	6,369.53					507.03	123.23	159.20	159.20

MOBILE COUNTY PUBLIC WORKS  
ENGINEERING DEPARTMENTPINE ST. EAST  
REPORT NO. 1  
Pg. 1 of 2

## CDBG PROJECTS ONLY PLANT MIX DAILY PLACEMENT REPORT

Date 11-9-09Project Number                      Project Name PINE ST. EASTLocation of Project NORTH MOBILE COUNTY, NORTH OF SPICE POND ROADContractor M.C. WILLIAMS Total Tons in Contract 326.Producer MOBILE ASPHALT COMPANY Weather Today CLOUDY / RAINTemperature: Today 63 °F, Low 65 °F, High 66 °F, Surface ASPH °F

## Tack Coat

Tack Placed Today: Sta. N/A to Sta. N/A Width: N/A ft. Area:            Sq. Yds.Today: N/A Gallons N/A Gallons Per Sq. Yd.From Previous Report: N/A Gallons N/A Sq. Yds.To Date: N/A Gallons, N/A Sq. Yds.Tack Coat Placed to Date: Sta. N/A to Sta. N/A

## Plant Mix

Placed Today: 231.69 Tons x 2000 = 463380 Pounds Placed TodayFrom Previous Report: N/A Tons Delivery Temp. 330 Highest 30 LowestTotal Placed to Date: 231.69 Tons x 2000 = 463380 Total lbs. Placed to DatePay Item No. 429-A Mix No. 429-A Lot No. 1

Yield Each 1000 S.Y. (Approximate) This Date

Spread	From STA.	To STA.	Length	Width	Sq. Yds.	Tons	Pounds	Rate (LB/SY)	Required Rate
1 LT.	25 LT.	ROWS PINE EAST (R2)	24	12	14.9				
2	0+10	0+61.5	51.5	12	68.67				
3	0+61.5	0+83.5	22	10	24.44				
4	0+83.5	2+00	116.5	12	155.33				
5					263.39	25.89			
2 6 LT.	2+00	3+11.5	11.5	12	148.67				
7	3+11.5	3+33.5	22	10	24.44				
8	3+33.5	4+20	86.5	12	115.33				
9					288.49	25.01			
10									

Remarks SEE P. 2 OF 2Inspector W.D. Jamison Project Engineer



MOBILE COUNTY PUBLIC WORKS  
ENGINEERING DEPARTMENT

PINE ST. EAST

Pg. 2 of 2

11-9-09

## CDBG PROJECTS ONLY PLANT MIX DAILY PLACEMENT REPORT

Yield Each 1000 S.Y. (Approximate) This Date

(551.78)

Spread	From STA.	To STA.	Length	Width	Sq.Yds.	Tons	Pounds	Rate (LB/SY)	Required Rate
3 1/2 CT.	4+20	5+86.5	166.5	12	222.0				
1/2	5+86.5	6+08.5	22	10	24.44				
1/2					246.44	25.65			
4 1/4 LT.	6+08.5	7+08	99.5	12	132.67				
1/2	7+08	7+36	28	10	31.11				
1/2	7+36	8+16	80	12	106.67				
1/2					270.45	26.33			
1/2					106.67	102.88	205760	192.5	165
5 1/2 CT.	8+16	8+91.5	75.5	12	106.67				97.25 S.
20	8+91.5	9+00	8.5	10	9.44				
21 RT.	9+13.5	8+91.5	22	10	24.44				
22 RT.	8+91.5	8+00	91.5	12	122.0				
23					256.55	25.66			
6 1/4 RT.	8+00	7+36	64	12	85.33				
26	7+36	7+08	28	10	31.33				
26	7+08	6+08.5	99.5	12	132.67				
27					249.11	26.05			
7 28 RT.	6+08.5	5+86.5	22	10	24.44				
29	5+86.5	4+34	152.5	12	203.33				
30					227.77	25.27			
8 31 RT.	4+34	2+00	234	12	312.0	26.00			
32					1045.43	102.48	205760	197.0	165
9 33 RT.	2+00	0+29	171	12	228.0	25.83			115 2x
34									107.
35					2342.10	231.69	463380	197.8	165
36									
37									
38									
39									
40									

Remarks ADVISED CONTRACTOR OF ALL RATES, CROSS SLOPE TAKEN

Inspector W.D. Smith Project Engineer

ITEM #:

429-A

PROJECT NO.

DATE:

11-9-09

CONTRACTOR:

DESCRIPTION:

PINE ST. EAST

 PS. 1 of 2  
 MC-LS-1 REVISED 2-27-08

M.C. WILLIAMS

WEARING SURFACE

Load #	WIDTH	STA	STA	SQ. YD	SQ. YD DAY	5000 SQYD	TICKET #	TRUCK #	TONS	TONS DAY	TONS DATE	YIELD	YIELD DAY	5000 SY RATE
LT <sub>1</sub>		25'-LT <sub>1</sub> RADIUS ON PINE ST. = $R^2 \cdot \pi^2 / 4$												
1		LT <sub>1</sub>	RADIUS	14.9										
	12	0+10	0+61.5	68.67										
	10	0+61.5	0+83.5	24.44										
	12	0+83.5	2+00	155.33										
				263.34	263.34		364737	MCW 6	25.89	25.89		196.6	196.6	
2	12	2+00	3+11.5	148.67										
	10	3+11.5	3+33.5	24.44										
	12	3+33.5	4+20	115.33										
				288.44	551.78		364738	MCW 5	25.01	50.90		173.4	184.5	
3	12	4+20	5+86.5	222.0										
	10	5+86.5	6+06.5	24.44										
				246.44	798.22		364739	MCW 3	25.65	76.55		208.2	191.8	
4	12	6+06.5	7+08	132.67										
	10	7+08	7+36	31.11										
	12	7+36	8+16	106.67										
				270.45	1068.67		364740	MCW 7	26.53	102.88		194.7	192.5	
5	12	8+16	8+91.5	100.67										
LT <sub>1</sub> ↑	10	8+91.5	9+00	9.44										
RT <sub>1</sub> ↓	10	9+13.5	8+91.5	22.44										
	12	8+91.5	8+00	122.0										
				256.55	1325.22		364742	MCW 2	25.66	128.54		200.0	193.9	
6	12	8+00	7+36	85.33										
	10	7+36	7+08	31.11										
	12	7+08	6+08.5	132.67										
				249.11	1574.33		364743	MCW 1	26.05	154.59		209.1	196.4	

\*

PINE ST EAST  
11-9-09

Pg. 2 of 2

MC-LS-2 REVISED 2-27-08

[illegible]

CONCRETE PLACEMENT  
DAILY REPORT

Copies:  
Project Engineer  
Mobile County

Project Number: MP-303-10  
County: MOBILE  
Date: 11/2/11

Structure No. \_\_\_\_\_  
Type Concrete AF-2A  
Weather Conditions Cloudy

1. Temperature Range 45 °F Low, 57 °F High, Temperature of Mix 70 °F
2. Contractor: Eseller
3. Description Of Structures Junction Box Top + Pipe End Treatment
4. Location Of Placement J-Box 59+65 LT, J-Box 59+68 RT, P.E.T. 46+90 LT+RT, P.E.T. 59+39 RT
5. Time Placement Started 2:40 (AM-~~PM~~) Completed 3:40 (AM-~~PM~~)
6. Cubic Yards Placed This Date 3.26/4.5 CUYD Total To Date 7.38/11.0 CUYD
7. Batches Delivered To Project This Date 1 @ 4.5
8. Method of curing field

10. Field Tests

Time	Slump (inches)	Time	% Air Entrained
<u>2:40</u>	<u>3"</u>	<u>2:45</u>	<u>2.5 %</u>

11. Cylinder Testing

Time	Cylinder No.	Type Of Structure & Stationing	Cylinder Break Age	Field Curing	
				Method	°F Temperature
<u>2:50</u>	<u>619A</u>	<u>SFE ABOVE</u>	<u>7</u>		
<u>2:51</u>	<u>619B</u>		<u>28</u>		
<u>2:52</u>	<u>619C</u>		<u>28</u>		

12. Remarks: Bay Concrete, Plant #1

Geo Tech Inspector

Kenneth Ellison  
Project Inspector  
T2643-06

Project Engineer

ACI Certification Number

## CERTIFICATE

The undersign Joe W. Ruffer, as County Engineer for the County of Mobile ("the County") of the State of Alabama, hereby certify as follows:

- (1) I have, since January 1975, been the County Engineer for the County. My qualifications, training, background and experience may be summarized as follows:

**JOE WILSON RUFFER**  
**REGISTERED PROFESSIONAL ENGINEER**  
**ALABAMA CERTIFICATE NO. 10044**

**GRADUATE:** Auburn University - Bachelor of Science Civil Engineering  
Auburn University - Master of Science Degree  
Major in Structural Design & Analysis  
Minor in Highway Engineering

**AWARD:** Alabama County Engineer of the Year – 1996  
ITE Transportation Safety Award – 1998  
Alabama County Engineer of the Year – 2002  
National County Engineers Association Urban Engineer of the Year -

2005

**MEMBER:** Chi Epsilon - A National Honorary Civil Engineering Fraternity  
American Society of Civil Engineers (Fellow)  
Society of American Military Engineers  
Past President, Alabama County Engineers' Association  
Past Transportation Committee Member, National Association of  
County Engineers  
Past Director, Alabama Chapter American Public Works Association  
Past Secretary-Treasurer, Alabama County Engineers Association  
Former Member, Advisory Committee, Highway Research Center,  
Auburn University  
Former Vice Chairman, ASCE – ANSI Standards, Low-Volume Roads  
Design Committee  
Chairman, ASCE-Local Roads and Street Committee  
Member, AASHTO Task Force on Geometric Design  
Member, Alabama Technology Transfer Advisory Committee  
Member, TRB Committee AFB30 on Low-Volume Roads  
Past Member, TRB Committee AFB10 on Geometric Design


**WORK HISTORY:** **January 1975 - Present: County Engineer/Public Works  
Director for Mobile County, AL**

Population 399,843; Annual Budget 49 Million Dollars; 503 Employees

Responsible for planning, construction, and maintenance of 1,432 miles of County public roads and highways and 163 bridges. Directs the activities of engineering, traffic, construction, equipment maintenance and public works departments.

- (1) On the date set forth below, I delivered to the County Commission this certificate, accompanied by the "Preliminary Engineering Report for the Mobile County Commission, 2010 Transportation Pay-As-You-Go Program, Mobile County Engineering Department, September, 2010. (Collectively "The Report").
- (2) The Report was prepared by and under my direction and supervision, and I am knowledgeable of the projects included in said 2010 Transportation Pay-As-You-Go Program and the details with respect thereto that are set forth therein.
- (3) I hereby certify that all materials proposed to be used on any road or bridgework described in the Report meet the specifications of the Alabama State Highway Department applicable to the same type of construction or improvement, as the said specifications exist on the date thereof.

DATED this 13<sup>th</sup> day of September 2010

  
As County Engineer of the County of Mobile  
and the State of Alabama

## List of Qualified Materials, Sources, and Devices

### Qualified Sources

- I-1 Aggregates
- I-2 Portland and Blended Cement Producers
- I-3 Mineral Admixtures for Portland Cement Concrete
- I-4 Producers of Asphalt Products
- I-5 Hot Mix Asphalt Plants
- I-6 Hydrated and Quicklime
- I-7 Portland Cement Concrete Producers
- I-8 Pre-Cast Concrete Items
- I-9 Producers of Inlet Grates and Seats for Drainage Structures and Miscellaneous Fabricated Bridge Items
- I-10 Producers of Pre-Cast Non-Prestressed and Prestress Concrete Bridge Members
- I-11 Producers of High Density Polyethylene Pipe
- I-12 Deformed and Plain Steel Bar Producing Mills

### Approved Materials

- II-1 Chemical Admixtures for Portland Cement Concrete
- II-2 Pile Point Protectors
- II-3 Geotextiles
- II-4 Welded Shear Stud Connectors
- II-5 Corrosion Resistant Dowel Bars
- II-6 Hot Mix Asphalt Release Coating For Truck Beds
- II-7 Epoxies for use with Portland Cement Concrete
- II-8 Fiber for Flumes
- II-9 Lubricant Adhesive for Elastomeric Joint Seals
- II-10 Membrane for Waterproofing Bridge Decks, Joints and Cracks in Concrete Paving
- II-11 Rolled and Hydraulic Erosion Control Products Projects Let Prior to 4/1/11 Projects Let On or After 4/1/11
- II-12 Welding Electrodes (List deleted June 2009)
- II-13 Joint Fillers
- II-14 Improved Surfaces For Railroad Crossings
- II-15 Concrete Anchoring Systems
- II-16 Slotted Drain Pipe

- II-17 Guardrail and Accessories
- II-18 Prefabricated Drainage Mat for Edge Drain
- II-19 Biodegradable, Non-toxic Bituminous Extraction Solvent
- II-20 Tackifiers for Mulching
- II-21 Nuclear Testing Devices
- II-22 MSE Wall Systems
- II-23 Admixtures for use in Hot Mix Asphalt
- II-24 Erosion control Wattles
- II-25 Detectable Warning Devices
- II-26 Prefabricated Vertical Drains
- II-27 Warm Mix Asphalt Products & Processes
- II-28 Gravity Wall Systems
- II-29 Trench Drains
- II-30 Curing Compounds for Use with Portland Cement Concrete

### Qualified Materials

- III-1 Coating Systems For Structural Steel
- III-2 Patching Materials for Portland Cement Concrete
- III-3 Concrete Surface Finish Coatings
- III-4 Joint and Crack Sealants
- III-5 Patching Material for Bituminous Concrete Pavement
- III-6 Bridge Expansion Joint Systems

### Approved Traffic Control Devices and Materials

- IV-1 Traffic Controllers and/or Cabinets
- IV-2 Individual Traffic Signal Items
- IV-3 Work Zone Traffic Control Devices
- IV-4 Miscellaneous Traffic Control Devices
- IV-5 Breakaway Connectors for Lightweight and Bendaway Sign Supports

### Qualified Traffic Control Materials

- V-1 Reflective Sheeting for Traffic Control
- V-2 Permanent Pavement Markers, Temporary Pavement Markers, Marker Adhesives, Delineators, and Hazard Markers

# Vulcan

Materials Company

## Materials Submittal

July 11, 2007

M.C. Williams  
1008 Schillinger Rd  
Mobi e, AL 36619

Attn: Blair Gibson

RE: (472) 825 Type B  
Project: MCR -4996-302B  
Halls Mill Rd.

The material to be supplied on the above mention project is produced at Vulcan Materials Company  
Sac Tun Quarry, Quintana Roo, Mexico.

Sieve Size	GRADATION	
	% Passing	Specification
	Average Gradation*	Limits
1 1/2"	100	90-100
1"	96	75-98
1/2"	73	55-80
#4	49	40-70
#8	35	28-54
#16	29	19-42
#50	20	9-32
#200	14.0	7-18

\* Average of tests performed at the quarry, and may not be indicative of any one test. In place material may vary from submittal due to degradation and segregation caused by handling, spreading and compaction.

Respectfully submitted,

*Gina R. Stracener*

Gina R. Stracener  
Lead Technician

APPROVED  
GET  
JUL 07/18/07

SOUTHERN AND GULF COAST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP  
P.O. BOX 385016 • BIRMINGHAM, ALABAMA 35238-5016

**Vulcan**  
Materials Company  
Southern and Gulf Coast Division  
Vulcan Construction Materials, LP

SHIPPING LOCATION:

2860 CLINTON LANE RD  
W. OLD DAUPHIN ISL. PUNNY  
THEODORE, AL 36582  
(334) 343-5070

	<b>WARNING</b> Read important health information on reverse.
	<b>PRECAUCIÓN</b> Léase la información importante para la salud en el reverso.

CARRIER <b>X</b>		CUSTOMER / CONSIGNEE	
DATE 07/17/07	TIME 10:40	PLANT 172 THEODORE 5000	TICKET NO. 350242
CUSTOMER 103262 NCM M.C. WILLIAMS CONCR CO		CUSTOMER P.O.	
JOB 301486 40 CONCRETE V3		DESTINATION MOBILE HALLS MILL RD	
CARRIER 099 CUSTOMER TRUCK	TRUCK NO. N013	ORAY PICKED UP	
PRODUCT 172 CONCRETE B-2005		WEIGHED BY Baudett Roger / 11054g	
GROSS LBS 77,956	TARE LBS 20,496	NET LBS 57,460	NET TONS 24.33
GROSS kg 35,354	TARE kg 9,342	NET kg 26,012	NET kg 26.012
COMMENTS			

**BMT-10** I hereby certify that this shipment of aggregates is from an approved source and meets the specifications for this project and the weight shown is true and accurate.

Pit # **925** Approved by authorized representative *THOMAS WILKINSON*

	CASH SALE ONLY				MILES
	PROD	ORAY	TAX	SEV. TAX	
PER TON					TOTAL
AMOUNT					

CARRIER SHIPPING ORDER/MEMO FREIGHT BILL/DELIVERY RECEIPT  
1850-01-SGC (06/06)

350242



**BITUMINOUS MATERIAL CERTIFICATE OF COMPLIANCE**

Project Number \_\_\_\_\_ County \_\_\_\_\_

Consignee \_\_\_\_\_ Destination \_\_\_\_\_

Producer Reference No. \_\_\_\_\_ Transport No. \_\_\_\_\_

Material Grade \_\_\_\_\_ Time Loaded \_\_\_\_\_ AM \_\_\_\_\_ PM

Tank No. \_\_\_\_\_ Flash F (C) \_\_\_\_\_ Loading Temp. \_\_\_\_\_

Anti-Strip \_\_\_\_\_ % Brand \_\_\_\_\_ Material contains Silicone (Yes)(No) \_\_\_\_\_

Net Weight of Load lbs (kg) \_\_\_\_\_

Grade of Previous Load Contained in this Transport \_\_\_\_\_

The undersigned certified that this shipment does meet all the applicable requirements of the Alabama Department of Transportation for the grade of bituminous material shown. It is further certified that the transporting vehicle was inspected prior to loading and found to contain no contaminating material.

\_\_\_\_\_  
(Name of Company)

\_\_\_\_\_  
(Address of Company)

\_\_\_\_\_  
(Signature of Authorized Representative)

\_\_\_\_\_  
(Date of Shipment)

\* \* \* \* \*

**(For ALDOT Use When All Material Is Not Used On Above Project)**

Net Weight of Load \_\_\_\_\_ Lbs (Kg)

Net Weight of Material in this Load used on this Project \_\_\_\_\_ Lbs (Kg)

Weight of Material Transferred to Project No. \_\_\_\_\_ is \_\_\_\_\_ Lbs (Kg)

\_\_\_\_\_  
(ALDOT Representative)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

FORM MC-BCR REVISED 2-28-08

**BITUMINOUS CERTIFICATION REQUEST**

PROJECT NUMBER: \_\_\_\_\_ STARTING DATE \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_ ENDING DATE \_\_\_\_\_

PRIME CONTRACTOR: \_\_\_\_\_

MATERIAL GRADE \_\_\_\_\_ QUANTITY \_\_\_\_\_ POUNDS  
MATERIAL GRADE \_\_\_\_\_ QUANTITY \_\_\_\_\_ POUNDS

I \_\_\_\_\_ DO HEREBY CERTIFY THAT ALL THE  
(print name)  
BITUMINOUS MATERIAL USED ON THE ABOVE MENTIONED PROJECT MEETS OR EXCEEDS ALL OF THE  
ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR THE TYPE, GRADE AND QUANTITY  
OF BITUMINOUS MATERIAL LISTED ABOVE.

I hereby certify the above statements to be correct and true

\_\_\_\_\_  
Authorized Official

STATE OF ALABAMA, County of \_\_\_\_\_  
Sworn and subscribed to before me this \_\_\_\_\_  
day of \_\_\_\_\_ 20\_\_\_\_

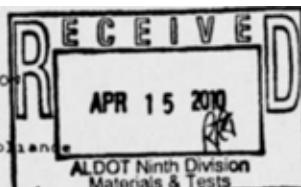
\_\_\_\_\_  
Notary Public

BMT-146

Rev. 04/21/04

ALABAMA DEPARTMENT OF TRANSPORTATION  
Bureau of Materials and Tests

## Bituminous Material Certificate of Compliance



Project Number STPOA-0181(505) County Baldwin  
 Consignee H.O. Weaver Destination Mobile  
 Producer Reference No. 26990 Transport No. 6240  
 Material Grade NTSS-1Hm Time Loaded AM PM  
 Tank No. 1-E Flash P<sup>2</sup>(C<sup>2</sup>) 175 P<sup>2</sup>(C<sup>2</sup>) 175  
 Anti-Strip 1 Brand 1 Material contains Silicone (Yes) (No)  
 Grade of Previous Load Contained in this Transport NTSS-1Hm  
 Net Weight of Load 49340 Lbs (kg)

The undersigned certifies that the transporting vehicle was inspected prior to loading and found to contain no contaminating material; that the sample(s) represented by this report was obtained from asphalt material loaded into the storage tank number indicated above; that the tests were made in accordance with ALDOT-243, "Acceptance Program For Asphalt Material", using the latest AASHTO standard methods; that the asphalt material complies with the Alabama Department of Transportation specification for the type shown above; and that no non-compliant asphalt material has been added to the storage tank.

Blackledge Emulsions GULFPORT, MS  
 (Name of Company) (Address of Company)  
Stephen Bishop 11-29-09  
 (Signature of Authorized Representative) (Date of Shipment)

(For ALDOT Use When All Material Is Not Used On Above Project)

Net Weight of Load 49340 Lbs. (kg)  
 Net Weight of Material in this Load used on this Project SEE BELOW Lbs. (kg)  
 Weight of Material Transferred to Project No. STMAA-STPAA-7615(600) 9845 Lbs. (kg)  
STPOA-0181(505) 15,870 (26)

KH 205 04/15/2010  
 (ALDOT Representative) (Signature) (Date)

Copies shall be distributed as follows.

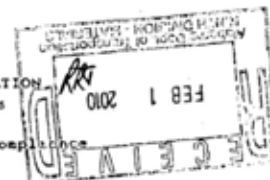
- Mail Copy to Testing Engineer
- Copy to Accompany Shipment to Project Engineer
- Copy to Accompany Shipment to Contractor
- Producer's Copy

BMT-146

Rev. 04/21/04

ALABAMA DEPARTMENT OF TRANSPORTATION  
Bureau of Materials and Tests

## Bituminous Material Certificate of Compliance



Project Number 99-309-441-016-906 County Mobile  
 Consignee H.O. Weaver Destination Mobile  
 Producer Reference No. 26555 Transport No. 0107  
 Material Grade NTSS-1Hm Time Loaded AM PM  
 Tank No. 1 Flash P<sup>2</sup>(C<sup>2</sup>) 155 P<sup>2</sup>(C<sup>2</sup>) 155  
 Anti-Strip 1 Brand 1 Material contains Silicone (Yes) (No)  
 Grade of Previous Load Contained in this Transport NTSS-1Hm  
 Net Weight of Load 48120 Lbs (kg)

The undersigned certifies that the transporting vehicle was inspected prior to loading and found to contain no contaminating material; that the sample(s) represented by this report was obtained from asphalt material loaded into the storage tank number indicated above; that the tests were made in accordance with ALDOT-243, "Acceptance Program For Asphalt Material", using the latest AASHTO standard methods; that the asphalt material complies with the Alabama Department of Transportation specification for the type shown above; and that no non-compliant asphalt material has been added to the storage tank.

Blackledge Emulsions Gulfport, MS  
 (Name of Company) (Address of Company)  
Stephen Bishop 9-22-09  
 (Signature of Authorized Representative) (Date of Shipment)

(For ALDOT Use When All Material Is Not Used On Above Project)

Net Weight of Load 48120 Lbs. (kg)  
 Net Weight of Material in this Load used on this Project SEE BELOW Lbs. (kg)  
 Weight of Material Transferred to Project No. 99-309-441-016-906 14136 Lbs. (kg)  
STMAA-STPAA-7615(600) 18155 Lbs.

(ALDOT Representative)

(Signature)

(Date)

Copies shall be distributed as follows:

- Mail Copy to Testing Engineer
- Copy to Accompany Shipment to Project Engineer
- Copy to Accompany Shipment to Contractor
- Producer's Copy

99-309-441-016-906  
ITEM 407B-000  
JOINT SEALANT  
14467 Lbs. / 1700 GALS  
STMAA-STPAA-7615(600)  
MOBILE COUNTY  
JOINT SEALANT  
1362 Lbs / 164 GALS.

**Alabama Pipe & Supply Co., Inc.  
Universal Precast, Inc.  
5721 Hwy. 90 West  
Theodore, AL. 36582  
251-653-1399 / 251-653-1279 Fax**

July 6, 2007

M.C. Williams Contracting  
1008 Schillinger Rd. N.  
Mobile, AL. 36608

Attn: Ricky Williams

Ref: Storm Structures for  
Halls Mill Rd.  
MCR 4996-302-B

Dear Sir,

Please find attached the submittal information for your approval and utilization of our reinforced precast concrete storm / sewer structures on the above referenced project. These precast structures are Alabama Dept. of Transportation certified and built within accordance with section 621, 501, & 502 of the state specifications. We are also a NPC certified production plant.

Please find attached our typical box design along with the material certifications from the ALDOT approved suppliers list, which supplies the concrete mix and reinforcing steel used to manufacture our structures. Also attached is the ALDOT – List I-8, which indicates Universal Precast as an approved supplier.

Your approval will be greatly appreciated on this project. If you should require any further information or have any questions, please do not hesitate to contact me at 251-653-1399.

Yours truly,

  
Pamela Brunson



# SMI Steel - Alabama and South Carolina

SMI Steel - Alabama  
P.O. Box 321188  
Birmingham, AL 35232-1188  
www.smi-al.com

SMI Steel - South Carolina  
Box 2005  
Cayce, SC 29171-2005  
www.smi-sc.com

## CERTIFIED MILL TEST REPORT

For additional copies call  
(800) 637-3227

We hereby certify that the test results presented here  
are accurate and conform to the reported grade specification.

*Richard S. Ray*

Richard S. Ray - SMI-SC  
Quality Assurance Manager

HEAT NO.: 61738		S O L D T O	SABEL STEEL CO		S H I P T O	SABEL STEEL SERVICE CENTER		SHIP#: 101408/17											
SECTION: Rebar 13mm x60"0"			PO BOX 4747			749 NORTH COURT STREET		BOL #: 205355											
Rebar #4 x60"0"			MONTGOMERY, AL 36103-			MONTGOMERY, AL 36103-		INV #: 8500617177											
GRADE: ASTM A615-01b GRADE 60								CUST PO#: 06-1881											
ASTM A615M-01b GRADE 420								CUST P/N:											
CHEMICAL ANALYSIS																			
	%	MECHANICAL		TEST 1		TEST 2		TEST 3											
			IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC											
C	0.43	Yield Strength Tensile Strength Elongation Gauge Length Reduction of Area Bend Test Diameter Charpy Impact Test Temp Sample Size Orientation Hardness	67.2 KSI	463.6 MPA															
Mn	1.11		108.0 KSI	744.9 MPA															
P	0.005		12 %	12 %															
S	0.033		8 INS	203 MM															
Si	0.20																		
Cu	0.32																		
Cr	0.07		OK																
Ni	0.13		1.75 INS	44.42 MM															
Mo	0.033																		
Cb	0.004																		
V	0.000																		
Sn																			
B																			
Ti																			
C.Eq.	0.64																		
JOMINY RESULTS - Rockwell C hardness at 1/16th inch increments																			
GRAIN SIZE																			
INCLUSION RATING																			
1	2	3	4	5	6	7	8	9	10	11	12	METHOD	METHOD						
													TYPE						
13	14	15	16	18	20	22	24	26	28	30	32	RESULT	SIZE	T	H	T	H	T	H

100% MELTED AND MANUFACTURED IN THE USA AND FREE OF MERCURY CONTAMINATION IN THE PROCESS  
REMARKS:

**Alabama Pipe & Supply**  
**P.O. Box 70, Irvington, AL. 36544**  
**251-653-1399 / 251-653-1279 Fax**

Date: 7-6-07

Alabama D.O.T. Certification for Rip Rap Fabric

Sold to: M.C. Williams Contracting  
 Roll #'s To be determined  
upon shipment

Does State require pre-certification? Yes

Pre-approved Products List? Yes

Fabric Property	Test Method	Units	Minimum Average Roll Value
Weight (Typical)	ASTM D 3776	oz./sq. yd.	8.0
Grab Tensile	ASTM D 4632	lbs.	205
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs.	85
Puncture	ASTM D 4833	lbs.	130
Mullen Burst	ASTM D 3786	psi	400
Permittivity	ASTM D 4491	l/sec.	1.4
Water Flow	ASTM D 4491	gpm/sq.ft.	90
AOS	ASTM D 4751	U.S. Sieve	80
UV Resistance After 500 hours	ASTM D 4355	% Strength Retained	70

Attested By: Pam Brunson Title: Sales

**PRODUCT DATA SHEET**  
**GEOTEX® 801**

GEOTEX 801 is a polypropylene, staple fiber, needlepunched nonwoven geotextile produced by Propex, and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. The fibers are needed to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

GEOTEX 801 conforms to the property values listed below.<sup>1</sup> Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

		MARV <sup>2</sup>	
PROPERTY	TEST METHOD	ENGLISH	METRIC
Mechanical			
Mass/Unit Area (Typical)	ASTM D-5261	8.0 oz/yd <sup>2</sup>	271 g/m <sup>2</sup>
Tensile Strength (Grab)	ASTM D-4632	205 lbs	912 N
Elongation	ASTM D-4632	50%	50%
Puncture	ASTM D-4833	110 lbs	490 N
CBR Puncture	ASTM D-6241	525 lbs	2335 N
Mullen Burst	ASTM D-3786	350 psi	2413 kPa
Trapezoidal Tear	ASTM D-4533	80 lbs	356 N
Endurance			
UV Resistance % Retained at 500 hrs	ASTM D-4355	70%	70%
Hydraulic			
Apparent Opening Size (AOS) <sup>3</sup>	ASTM D-4751	80 US Std. Sieve	0.180 mm
Permittivity	ASTM D-4491	1.50 sec <sup>-1</sup>	1.50 sec <sup>-1</sup>
Water Flow Rate	ASTM D-4491	110 gpm/ft <sup>2</sup>	4480 l/min/m <sup>2</sup>
Roll Sizes		12.5 ft x 360 ft	3.81 m x 109.8 m
		15 ft x 300 ft	4.57 m x 91.5 m

**NOTES:**

- The property values listed above are effective 02/2009 and are subject to change without notice.
- Values shown are in weaker principal direction. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.
- Maximum average roll value.

**PROPEX**  
 GEOSYNTHETICS

THE ADVANTAGE CREATORS™

Propex Inc.  
 6025 Lee Highway, Suite 425  
 PO Box 22788  
 Chattanooga, TN 37422

PH: 423 899 0444  
 PH: 800 621 1273  
 FAX: 423 899 7619  
 www.geotextile.com

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# Alabama Pipe & Supply

5721 Hwy 90 West Theodore, Al 36544

P.O. Box 70 Irvington, Al 36544

Office 251-653-1399 Fax 251-653-1279

Date: 7-6-07

Sold To: M.C. Williams Contracting

Alabama Pipe & Supply, Inc. Intends to supply you with a product identified as Alabama D.O.T. Type "A" silt fence kit. This kit consists of: 34-painted posts with Anchor plate (see spec listed below), 1-roll of hog wire (see spec listed below), 1- roll Of 5 ft. wide by 330 ft. long roll of geotextile fabric (see spec listed below), 200 each hog rings used to attach geotextile fabric to the hog wire, 100 each post "J" clips used to attach Hog wire to the steel posts.

## Alabama D.O.T Specification for Silt Fence, Type A

Does state require pre-certification? YES

Pre-approved products list? YES List II-3

### Product

### Properties

Geotextile fabric used for silt fence  
Section 665.03 ( K )

#311 Manufactured by  
Synthetic Industries, Inc.  
Or- #RO-35  
Manufactured by Nevown  
T.N.S. Advanced Technologies

Wire Fencing  
Section 871.02

Meets requirements of  
ASTM A116, 1047-6-12.5, class 1  
Coating

Steel posts  
Section 871.02 (B1)

Meets requirements of  
AASHTO M-281, minimum weight  
Of 1.25 lbs per linear foot

Attested by: Pam Branson Title: Sales Date: 7-6-07

# Certified Analysis

Trinity Industries, Inc., Highway Safety Division

600 Prosperity Road

Orangeburg, SC 29115

Customer: ALABAMA SAFETY SERVICE

213 LAKEWOOD DRIVE

DADEVILLE, AL 36853

Project: CONTRACT# MCP-136-00 PR: POPE CONST. CO: MOBILE

Order Number: 1055894

Customer PO: MOBILE

BOL Number: 12173

Document #: 2

Shipped To:

As of: 10/27/05

Qty	Part #	Description	CL	TY	Heat #	Yield	TS	Elg	C	Mn	P	S	Si	Cu	Ch	Cr	Vn	ACW
1	3G	12/12" BACKUP	A	2	35707	61,270	79,690	24.0	0.180	0.740	0.013	0.006	0.020	0.090	0.000	0.050	0.000	4.0
		M-180-																
1	30G	12/12" S SRT-1	A	2	58785	62,240	80,450	24.0	0.190	0.750	0.011	4.000	0.030	0.060	0.000	0.040	0.000	4.0
		M-180-																
7	60G	12/25" S SRT-2	A	2	1413288	58,900	71,300	25.6	0.040	0.750	0.011	0.008	0.010	0.150	0.000	0.030	0.049	4.0
		M-180-																
7	62G	12/25" S ET-2000 ANC	A	2	B4300-	51,519	72,596	25.0	0.230	0.680	0.014	0.009	0.016	0.000	0.000	0.000	0.000	4.0
		M-180-																
1	69G	12/25" SPEC S SRT-2			10337270	53,210	62,858	34.0	0.030	0.510	0.008	0.002	0.030	0.120	0.040	0.040	0.000	4.0
		A-36-																
1	907G	12" BUFFER ROLLED	A	2	H3450	60,000	78,900	27.0	0.190	0.710	0.005	0.044	0.030	0.160	0.003	0.060	0.004	4.0
		M-180-																
7	995A	ET-PLUS EXTRUDER HEAD			E51414	50,600	79,700	27.0	0.240	1.060	0.014	0.006	0.014	0.072	0.001	0.060	0.004	4.0
		A-36-																

Upon delivery, all materials subject to Trinity HSP Storage Stain Policy No. LG-002.

ALL STEEL USED WAS MELTED AND MANUFACTURED IN USA

ALL GUARDRAIL MEETS AASHTO M-180, ALL STRUCTURAL STEEL MEETS ASTM A36

ALL OTHER GALVANIZED MATERIAL CONFORMS WITH ASTM-123.

BOLTS COMPLY WITH ASTM A-307 SPECIFICATIONS AND ARE GALVANIZED IN ACCORDANCE WITH ASTM A-153, UNLESS OTHERWISE STATED.

NUTS COMPLY WITH ASTM A-563 SPECIFICATIONS AND ARE GALVANIZED IN ACCORDANCE WITH ASTM A-153, UNLESS OTHERWISE STATED.

State of South Carolina, County of Orangeburg. Sworn and subscribed before me this 27th day of October, 2005

Notary Public:

Commission Expires

*Beverly B Brown*  
8-20-2011

Trinity Industries, Inc.

Certified By: *Celeste Gennip*

1 of 4

# Certified Analysis

Trinity Industries, Inc., Highway Safety Division

600 Prosperity Road

Orangeburg, SC 29115

Customer: ALABAMA SAFETY SERVICE

213 LAKEWOOD DRIVE

DADEVILLE, AL 36853

Project: CONTRACT# MCP-136-00 PR: POPE CONST. CO: MOBILE

Order Number: 1055894

Customer PO: MOBILE

BOL Number: 12173

Document #: 2

Shipped To:

As of: 10/27/05

Qty	Part #	Description	CL	TY	Heat #	Yield	TS	Elg	C	Mn	P	S	Si	Cu	Cb	Cr	Vn	ACW
	995A				J54918	52,300	73,200	22.0	0.150	0.650	0.021	0.023	0.210	0.420	0.001	0.190	0.004	4.0
		A-36-																
	995A				H3774A	50,300	71,800	31.0	0.200	0.660	0.012	0.011	0.030	0.230	0.000	0.070	0.001	4.0
		A-36-																
	995A				U4398	43,369	61,595	38.0	0.130	0.680	0.027	0.032	0.230	0.450	0.000	0.140	0.000	4.0
		A-36-																
	995A				4119853	46,300	66,400	30.0	0.200	0.770	0.012	0.009	0.020	0.020	0.000	0.030	0.002	4.0
		A-36-																
49	14578G	60 PST/8.5#SYTP			12801	45,400	66,800	26.3	0.130	0.580	0.013	0.029	0.230	0.220	0.000	0.120	0.000	4.0
		A-36-																
7	33795G	SYT-3"AN STRT 3-HL 6% 25			732532 NUC	46,000	69,000	28.0	0.180	0.660	0.010	0.030	0.170	0.270	0.000	0.120	0.000	4.0
		A-36-																
	33795G				71943	50,800	72,200	30.0	0.140	0.870	0.012	0.039	0.250	0.360	0.001	0.190	0.000	4.0
		A-36-																

Upon delivery, all materials subject to Trinity HSP Storage Stain Policy No. LG-002.

ALL STEEL USED WAS MELTED AND MANUFACTURED IN USA

ALL GUARDRAIL MEETS AASHTO M-180, ALL STRUCTURAL STEEL MEETS ASTM A36

ALL OTHER GALVANIZED MATERIAL CONFORMS WITH ASTM-123.

BOLTS COMPLY WITH ASTM A-307 SPECIFICATIONS AND ARE GALVANIZED IN ACCORDANCE WITH ASTM A-153, UNLESS OTHERWISE STATED.

NUTS COMPLY WITH ASTM A-563 SPECIFICATIONS AND ARE GALVANIZED IN ACCORDANCE WITH ASTM A-153, UNLESS OTHERWISE STATED.

State of South Carolina, County of Orangeburg. Sworn and subscribed before me this 27th day of October, 2005

Notary Public:

Commission Expires

*Beverly B Brown*  
8-20-2011

Trinity Industries, Inc.

Certified By:

*Celeste Jennings*

2 of 4

Trinity Industries, Inc., Highway Safety Division  
600 Prosperity Road  
Orangeburg, SC 29115

Customer: ALABAMA SAFETY SERVICE  
213 LAKEWOOD DRIVE

DADEVILLE, AL 36853

Sales Order: 1055894  
Customer PO: MOBILE  
BOL # 12173  
Document # 1

Print Date: 10/27/05  
Project: CONTRACT# MCP-136-00 PR: POPE CONST. CO: M  
Shipped To:

Trinity Industries, Inc.  
Certificate Of Compliance For Trinity Industries, Inc. \*\* SLOTTED RAIL TERMINAL \*\*  
NCHRP Report 350, TL-3 Tested And Approved

Pieces	Description
1	12/12" BACKUP
1	12/12" S SRT-1
7	12/25/6" S
7	12/25/6" S ET-2000 ANC
1	12/25" SPEC S SRT-2
1	12" BUFFER/ROLLED
7	ET-PLUS EXTRUDER HEAD
8	CBL 3/4X6" DBL SWG/NOHWD
5	WD 6" POST 6X8 CRT
5	WD BLOCK 1'2" X 8" DR
1	REFL SRT 16X16 YELLW/BLCK
42	PLYMR BLK 4X7.5X14 KING
49	6" PST/8.5" SYTP
7	ET+CAN-50', 25', 1HBA/7SYTP
7	SYT-3" AN STRT 3-HL 6'6.25
1	SRT HBA CAN
7	ET HBA P1 TOP X 2-8 3/4
7	ET HBA P1-2 BTM X 6-1 1/2

Upon delivery, all materials subject to Trinity HSP Storage Sign Policy No. LG-002.

ALL STEEL USED WAS MELTED AND MANUFACTURED IN USA  
ALL GUARDRAIL MEETS AASHTO M-180, ALL STRUCTURAL STEEL MEETS ASTM A36  
ALL OTHER GALVANIZED MATERIAL CONFORMS WITH ASTM-123.  
BOLTS COMPLY WITH ASTM A-307 SPECIFICATIONS AND ARE GALVANIZED IN ACCORDANCE WITH ASTM A-153, UNLESS OTHERWISE STATED  
NUTS COMPLY WITH ASTM A-563 SPECIFICATIONS AND ARE GALVANIZED IN ACCORDANCE WITH ASTM A-153, UNLESS OTHERWISE STATED

State of South Carolina, County of Orangeburg, Sworn and Subscribed before me this 27th day of October, 2005

Notary Public:  
Commission Expires

*Beverly B. Brown*  
8-20-2011

Trinity Industries, Inc.  
Certified By:

*Celeste Jennings*

Trinity Industries, Inc., Highway Safety Division  
600 Prosperity Road  
Orangeburg, SC 29115

Customer: ALABAMA SAFETY SERVICE  
213 LAKEWOOD DRIVE

DADEVILLE, AL 36853

Sales Order: 1055894  
Customer PO: MOBILE  
BOL # 12173  
Document # 2

Print Date: 10/27/05  
Project: CONTRACT# MCP-136-00 PR: POPE CONST. CO: M  
Shipped To:

Trinity Industries, Inc.

Certificate Of Compliance For Trinity Industries, Inc. \*\* E.T. PLUS EXTRUDER TERMINAL \*\*  
NCHRP Report 350. TL-3 Tested And Approved

Pieces	Description
1	12/12"/BACKUP
1	12/12"/S SRT-1
7	12/25/6'3"/S
7	12/25/6'3"/S ET-2000 ANC
1	12/25'0"/SPEC/S SRT-2
1	12"/BUFFER/ROLLED
7	ET-PLUS EXTRUDER HEAD
8	CBL 3/4X6/DBL SWG/NOHWD
5	WD 6'0 POST 6X8 CRT
5	WD BLOCK 1'2 6" X 8" DR
1	REFL SRT 16X16 YELLOW/BLCK
42	PLYMR BLK 4X7.5X14 KING
49	6'0 PST/8.5#/SYTP
7	ET+CAN-50'.25'.1HBA/7SYTP
7	SYT-3"AN STRT 3-HL 6'6.25
1	SRT HBA CAN
7	ET HBA P1 TOP X 2-8 3/4
7	ET HBA P1-2 BTM X 6-1 1/2

Upon delivery, all materials subject to Trinity HSP Storage Stain Policy No. LG-002.

ALL STEEL USED WAS MELTED AND MANUFACTURED IN USA

ALL GUARDRAIL MEETS AASHTO M-180, ALL STRUCTURAL STEEL MEETS ASTM A36

ALL OTHER GALVANIZED MATERIAL CONFORMS WITH ASTM-123.

BOLTS COMPLY WITH ASTM A-307 SPECIFICATIONS AND ARE GALVANIZED IN ACCORDANCE WITH ASTM A-153, UNLESS OTHERWISE STATED

NUTS COMPLY WITH ASTM A-563 SPECIFICATIONS AND ARE GALVANIZED IN ACCORDANCE WITH ASTM A-153, UNLESS OTHERWISE STATED

State of South Carolina, County of Orangeburg, Sworn and Subscribed before me this 27th day of October, 2005

Notary Public:

Commission Expires

*Beverly B Brown*  
8-20-2011

Trinity Industries, Inc.

Certified By:

*Celeste Jennings*

3 of 4



MC-LT

## MOBILE COUNTY PUBLIC WORKS

Project No: MCP-308-09 Contractor: SUNSET Eng. Consultant: POULMaterial: BORROW Inspector: DAVE RICHARDSTruck No: S-23 Cu. Yd. Per Load: 20.19 Total Cu. Yd.: 498.96Print Name & Title: DAVE RICHARDS Signature: *David A. Richards*

DATE	NUMBER OF LOADS HAULED PER DAY												TOTALS	REMARKS
11-12-09	1	2	3	4	5	6	7	8	9	10	11	12	62.37✓	
11-16-09	1	2	3	4	5	6	7	8	9	10	11	12	103.95✓	
11-17-09	1	2	3	4	5	6	7	8	9	10	11	12	20.79	
11-23-09	1	2	3	4	5	6	7	8	9	10	11	12	124.74✓	
12-4-09	1	2	3	4	5	6	7	8	9	10	11	12	124.74✓	
12-7-09	1	2	3	4	5	6	7	8	9	10	11	12	62.37✓	
	1	2	3	4	5	6	7	8	9	10	11	12		



REMIT ADDRESS  
P.O. BOX 3668  
Gulfport, MS 39505

CUSTOMER DELIVERY  
INVOICE

MSDS ON BACK

AL DISPATCH (251) 408-0700  
MS DISPATCH (228) 762-8911

Concrete Tested ☐ Yes ☐ No  
Cylinders Taken ☐ Yes ☐ No

Comments: \_\_\_\_\_

Receipt of the concrete product shall subject purchaser/owner to the following:

TERMS OF ACCEPTANCE: a) volume of hardened concrete may be, or appear to be, less than anticipated due to waste and spillage, over-excavation, spreading forms, loss of entrained air, or settlement of wet mix; b) concrete strength guarantee per ASTM C39 is not effective unless field sampling is done per ASTM C172 and C31 and laboratory testing fully complies with ASTM C39 - 1077; c) trucks not permitted beyond curb line except upon owner or contractor's authorization as shown by signature below, and purchaser or owner's agent indemnifies and holds supplier harmless from any and all damage that may occur to owner's property; d) it is the responsibility of the purchaser to provide access to the point of delivery suitable for the vehicle to traverse under its own power, and all orders are accepted subject to condition. Any wrecker expense and delivery charge incurred will be borne by the purchaser.

CAUTION: Contains Portland Cement. Product may cause skin irritation. Avoid eye contact and direct skin contact. Keep out of Reach of Children. Use only as intended.

PRODUCER NOT RESPONSIBLE FOR COLOR, FINISH,  
HARDNESS, CRACKING OR CONCRETE POURED ABOVE  
A 5' SLUMP.

Received  
by X

OWNER OR OWNER'S AGENT

HARDNESS, CRACKING OR CONCRETE POURED ABOVE A 5" SLUMP.			LEAVE PLANT	ARRIVE JOB SITE	START DISCHARGE	FINISH DISCHARGE	ARRIVE PLANT
CUSTOMER NO. 1501361							
PLANT	MIX NUMBER	YARDS	TRUCK NUMBER	DRIVER	TIME	DATE	TICKET NO.
79	MD66CFA	1.00	9118	EVANS, DEMARCO	8:06AM	25 Jun 08	20939243

CUSTOMER NAME		DELIVERY ADDRESS		CUSTOMER P.O. NO.	
CONCRETE SERVICES, INC.		MARTY DR			
3		OFF SCHILLINGERS		PRODUCT CODE	JOB NO.
				MD66CFA	40004
YARDS	DESCRIPTION	YARDS ORDERED	YARDS DELIVERED		
4.00	AF1A	4.00	4.00		

QUANTITY	PRODUCT NUMBER	DESCRIPTION	PRICE	AMOUNT
1.00	MD66CFA	AF1A		
1.00	ECF000000	FUEL CHARGE		
		Poured tops of inlets sta 6+92 L+R STA 5+32 L+R.		

WATER ADDED AT CUSTOMER'S REQUEST						
_____ gals. to full load						
_____ gals. to 2/3 load						
_____ gals. to 1/3 load						
Sig. of Rec. - Water Added						
45901		SUB TOTAL	TAX %	PREV. TOTAL	TAX TOTAL	GRAND TOTAL
TEST CYLINDERS MADE						

COPY 2

378628

SOLD TO  
MOBILE ASPHALT**MAC**

MOBILE ASPHALT COMPANY, L.L.C.

**SARALAND PLANT**PLANT: 1370 HWY. 43 SOUTH  
SARALAND, AL 36571  
679-9783OFFICE: P.O. BOX 190279  
MOBILE, AL 36619  
(251) 408-0770BEN HAMILTON  
SPECIAL INSTRUCTIONSDRIVER ON ☐ OFF ☐

TRUCK NO. 701	TRUCKER 701	DATE 8/31/2010	TIME 10:34:08	TICKET NO. 378628
ORDER NO. 10035	PRODUCT CODE 429-B	DESCRIPTION 429B 1/2" LEVELING	ZONE	
CUST. ACCT. NO. MOB103	CUST. P.O. NO.	CONTRACT NO. MCR-2008-012	WEIGHMASTER JDS, RJM	

TERMS: Interest at 1.5% per month (18% APR) will be charged on all past due balances. Collection costs and attorney's fees will be charged on accounts turned over for collection.

	POUNDS	TONS	METRIC	
GRUSS	80720	40.35	36.61	
TARE	29600	14.80	13.43	
NET	51120	25.56	23.19	
SCALE:				
				Order No: 10035
				Loads Today: 3
				Qty. Today: 77.26
				MTON TODAY: 70.09
LOAD NO.	QUANTITY ORDERED		QUANTITY DELIVERED	QUANTITY REMAINING
UNIT PRICE	NET PRICE	DELIVERY CHARGE	SUB-TOTAL	TAX
				GRAND TOTAL

ASPHALT CONTAINS HAZARDOUS MATERIALS THAT MAY BE HAZARDOUS TO YOUR HEALTH. MSDS SHEETS AVAILABLE ON YOUR REQUEST.

DRIVER \_\_\_\_\_ REC'D BY \_\_\_\_\_ DEPUTY \_\_\_\_\_

**Vulcan**  
Materials Company  
Southern and Gulf Coast Division  
Vulcan Construction Materials, LP

SHIPPING LOCATION:

BLAKELY ISLAND YARD #3  
1767 COCHRAN BRIDGE CSWY  
MOBILE, AL. 36660

	<b>WARNING</b> Read important health information on reverse.
	<b>PRECAUCIÓN</b> Léase la información importante para la salud en el reverso.

CARRIER <b>X</b>		CUSTOMER / CONSIGNEE 	
DATE 03/25/09	TIME 08:48	PLANT 174 BLAKELY ISLAND	TICKET NO. 504853

**LIMITED WARRANTY AND WARRANTY DISCLAIMER:** Seller warrants for a period of one (1) year from date of delivery only that the material sold hereunder substantially complies with Seller's specifications for said material or the specifications set forth in Seller's quotation. SELLER HEREBY EXCLUDES ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PURPOSE, AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF THE MATERIAL SOLD HEREUNDER, OTHER THAN THE EXPRESS WARRANTY STATED ABOVE. In addition, except to the extent otherwise set forth in the specifications described above, Seller makes no warranty whatsoever with respect to specific gravity, absorption, whether the material is innocuous, non-deleterious, or non-reactive, or whether the material is in conformance with any plans, other specifications, regulations, ordinances, statutes, or other standards applicable to customer's job or to said material as used by customer. SELLER SHALL IN NO EVENT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE CAUSED BY NON-COMPLIANCE OF THE MATERIAL WITH SPECIFICATIONS, OR FOR ANY DEFECTS IN THE MATERIAL SOLD HEREUNDER.

ALL SALES AND DELIVERIES MADE SUBJECT TO SELLER'S GENERAL TERMS AND CONDITIONS.

AS EVIDENCED BY SIGNATURE OR DEPARTURE FROM SELLER'S FACILITY, CARRIER ACKNOWLEDGES THAT CARRIER IS SOLELY RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT, AXLE WEIGHTS AND GROSS WEIGHT. CARRIER SHALL BE RESPONSIBLE FOR NOTIFYING SELLER WHEN ANY TRUCK OR TRAILER HAS BEEN OVERLOADED SO AS TO RENDER IT OUT OF COMPLIANCE WITH ANY APPLICABLE WEIGHT LIMITS. TO THE MAXIMUM EXTENT ALLOWED BY LAW, CARRIER SHALL INDEMNIFY SELLER FOR ANY LOSS CAUSED BY OVERLOADING.

TRUCK TARE AND GROSS WEIGHTS ARE DETERMINED WITH THE DRIVER ON THE VEHICLE.

**BMT-10** I hereby certify that this shipment of aggregates is from an approved source and meets the specifications for this project and the weight shown is true and accurate.

Pit # 0925 Approved by authorized representative **CHUCK WASHINGTON**

CUSTOMER 151150 MC <b>MC CONNELL CONTRACTING INC</b>		CUSTOMER P.O.	
JOB 124576 904 CALICA MISC 9% TAX - CITY		DESTINATION 03 KELLY RD MT VERNON	
CARRIER 999 CUSTOMER TRUCK		TRUCK NO. RD1	GRAY PICKED UP
PRODUCT 572 ICA 457		WEIGHED BY Gina Stracener 18819	

GROSS LBS	TARE LBS	NET LBS	NET TONS	TONS TODAY
77,600	27,380	50,220	25.11	25.11
GROSS kg	TARE kg	NET kg	NET Mg	LOADS TODAY
35,199	12,419	22,779	22.7794	1

COMMENTS

*Agg. Surface  
Kelly*

CASH SALE ONLY				MILES
PROD	GRAY	TAX	SEV. TAX	TOTAL
PER TON				
AMOUNT				

EXTRA COPY MEMO BILL OF LADING  
1850-01-SOC (06/05)

504853



# **Kenneth Ellison**

## **Mobile County Public Works**

### **Proper Documentation Submittal**

- Pre-Measure
  - 652.03 ( c ) Inspection



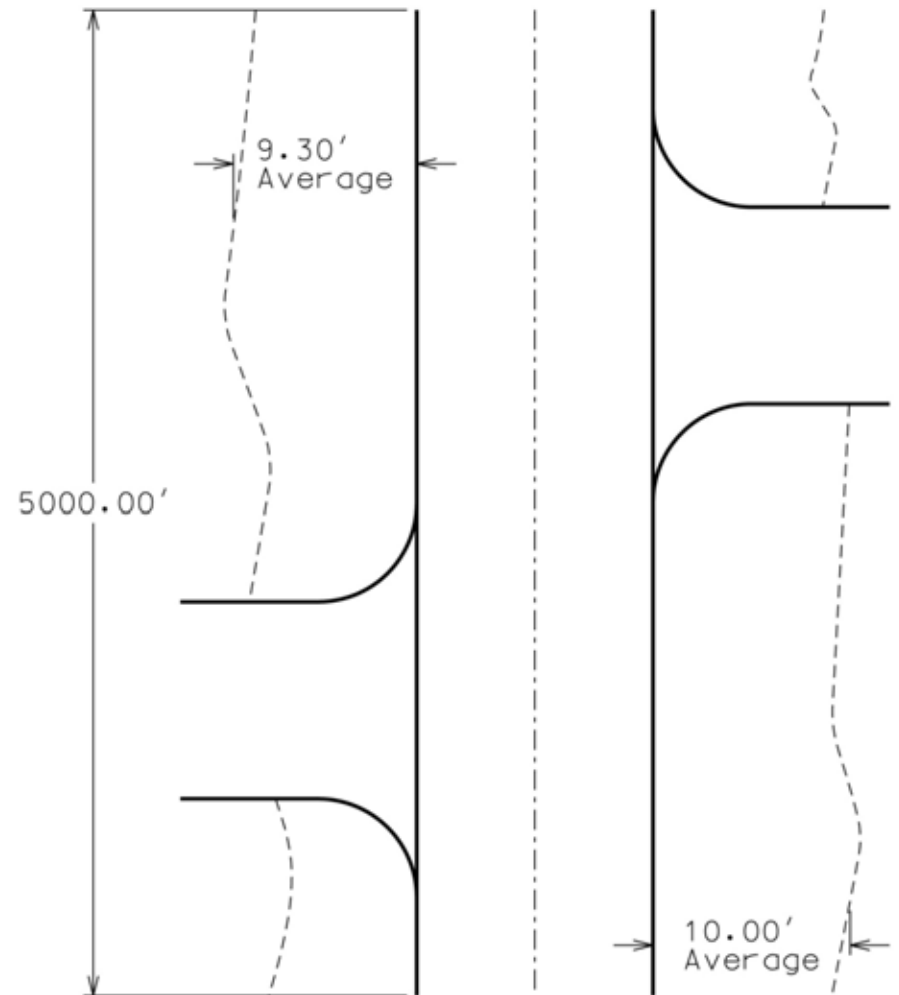
**For Field Calculation Only**  
**Not For Payment**

$$\begin{aligned} 10.00' \times 5000.00' &= 50000.00 \text{ sq.ft.} \\ 9.30' \times 5000.00' &= 46500.00 \text{ sq.ft.} \end{aligned}$$

$$50000.00 \text{ sq.ft.} + 46500.00 \text{ sq.ft.} = 96500.00 \text{ sq.ft.}$$

$$96500.00 \text{ sq.ft.} / 43560.00 \text{ sq.ft.} = 2.215 \text{ acers}$$

use 2.2 acers



- Pre-Measure
  - 652.03 ( c ) Inspection
- Ground Preparation
  - 651.03 ( c ) Ground Preparation







- Pre-Measure
  - 652.03 ( c ) Inspection
- Ground Preparation
  - 651.03 ( c ) Ground Preparation
  - 652.3 ( f ) 2. Initial Fertilization and Lime

# REQUIRED, SEEDING, FERTILIZER, & MULCH

	SQFT	ACRE
Left Side	46500.00	1.067
Right Side	50000.00	1.147
Intersections	0.00	0.000

**2.2 ACRE**

<b>HAY</b>	<b>TICKETS</b>		<b>REQUIRED</b>		<b>Spec. Book</b>		
	0	Tons	4.4	Tons	Tons Per Acre 2		
<b>SEED</b>	RYE	100 lbs.	64.3 lbs.		<b>Spec. Book</b>		
	UNHULLED	50 lbs.	51.8 lbs.		lbs. Per Acre		
	C. Clover	100 lbs.	123.5 lbs.			%Pure	%Germ.
	Pensacola	100 lbs.	108.5 lbs.				
<b>FERTILIZER</b>	8X8X8	NONE lbs.	3300 lbs.		<b>2ND APPLICATION</b>		
	13X13X13	1450 lbs.	2031 lbs.				<b>Spec. Book</b>
	16.5X16.5X16.5	NONE lbs.	1599 lbs.				lbs. Per Acre

Hay = ( Tons Per Acre x Acres )

Seed = (( lbs. Per Acre / ( % Pure x % Germination)) x Acres

Fertilizer = 1st( lbs. Per Acre x Acres ) 2nd(( # Per Acre / 3 ) x Acres )



## ALDOT FERTILIZER CALCULATION

### FERTILIZER (Section 652)

Specification requirement - 1500 pounds of Grade 8-8-8 fertilizer per acre or sufficient quantity of any other grade that provides 120 pounds per acre each of Nitrogen(N), Phosphorus( $P_2O_5$ )and Potash( $K_2O$ ).

Example - the contractor chooses to use 50 pound bags of Grade 17-17-17. How many bags per acre are required?

The Grade of fertilizer represents the percentages of each component in the mix. A Grade 8-8-8 contains 8% each of the three components, 17-17-17 contains 17% each. For this example, we need to know how much of the supplied mix will give us 120 pounds per acre of each component.

17% of one 50lb bag is Nitrogen or  $0.17 \times 50 = 8.5\text{lb}$  of N per bag.

We need 120 lb of N.  $(120\text{lb of N}) / (8.5\text{lb of N/bag}) = 14.1$  bags per acre

\*Since the mix is made up of equal parts of all three components, 14.1 bags per acre will satisfy requirements for all components.







- Pre-Measure
  - 652.03 ( c ) Inspection
- Ground Preparation
  - 651.03 ( c ) Ground Preparation
  - 652.3 ( f ) 2. Initial Fertilization and Lime
- Seeding
  - Tickets

DO NOT USE FOR FOOD, FEED,  
OR OIL PURPOSES  
**DIXIE RESEEDING CRIMSON CLOVER**

**LOT# Y38-9CC-08.CTD**

INGREDIENTS	ORIGIN
59.40 % PURE SEED	OR
.15 % OTHER CROP	
40.30 % INERT MATTER	
(Includes 40% Coating Material)	
.15 % WEED SEEDS	

GERMINATION 75 %

HARD SEED 10 %

TOTAL GERMINATION & HARD SEED 85 %

TEST DATE: 11/09 AMS 535

Pre- Inoculated and Coated with  
ALL-VANTAGE Lot H603

Inoculation Expiration Date: 11/10

NOXIOUS WEED SEEDS: NONE FOUND

NET WEIGHT: 50 LBS/22.68 KGS

**The Wax Company**  
Amory, MS 38821



DO NOT USE FOR FOOD, FEED,  
OR OIL PURPOSES  
**DIXIE RESEEDING CRIMSON CLOVER**

**LOT# Y38-9CC-08.CTD**

INGREDIENTS	ORIGIN
59.40 % PURE SEED	OR
.15 % OTHER CROP	
40.30 % INERT MATTER	
(Includes 40% Coating Material)	
.15 % WEED SEEDS	

GERMINATION 75 %

HARD SEED 10 %

TOTAL GERMINATION & HARD SEED 85 %

TEST DATE: 11/09 AMS 535

Pre- Inoculated and Coated with  
ALL-VANTAGE Lot H603

Inoculation Expiration Date: 11/10

NOXIOUS WEED SEEDS: NONE FOUND

NET WEIGHT: 50 LBS/22.68 KGS

**The Wax Company**  
Amory, MS 38821





**COMMON BERMUDAGRASS  
UNMULLED BERMUDAGRASS**

Lot: SM264-CTD

Germination: 85.00%	Pure Seed: 50.00%
Hard seed: .00%	Other crop: .00%
Total Germ: 85.00%	Inert Matter: 50.00%
Test date: 04/2009	Weed Seed: .00%
Noxious Weeds: None	Origin: California

**THE WAX COMPANY, LLC**

AMORY, MS

Net WT: 50 lbs

\*Inert matter consists of Lime base coating material.

AMS 6113

Lot No: SCC 210-109

Test Date: 9-08

Seed	Variety	Kind	Germ	Dormant	Total	Origin
97.77%	Pensacola	Bahiagrass	83%	7%	90%	FL

2.23% Inert Matter(

0.00 % Other Crop

0.00 % Weed Seed

Noxious Weed  
( Per Pound)

Net Weight: 50 pounds

None

PENNINGTON SEED INC ALABAMA DIVISION  
2210 INDUSTRIAL

**Notice to the Consumer**

Arbitration/Conciliation/Mediation required by several states. Under the seed laws of several states, arbitration, mediation, conciliation is required as a prerequisite to maintaining a legal action based upon the failure of seed, to which this notice is attached, to produce as represented. The consumer shall file a complaint (sworn by for: FL, IN, MS, SC, TX, WA, signed only CA, GA, ID, MO, SD) along with the requested filing fee (where applicable) with the Commissioner/Director/Secretary of Agriculture, Seed Commissioner (MS), or Chief Agricultural Officer (purchase). A copy of the complaint shall be sent to the seller by certified or registered mail or as otherwise provided by state statute.

<b>LOT NUMBER:</b> SCCBP0889		<b>NAME:</b> PENSACOLA BAHIA GRASS	
<b>Pure Seed</b>	<b>Variety</b>	<b>Kind</b>	<b>Germ</b>
98.32%	PENSACOLA	BAHIA GRASS	89% FL

<b>HARD</b>	10.00%	<b>TOTAL HARD SEED and GERM:</b>	75.00%
<b>INERT</b>	1.10%		
<b>OTHER CROP</b>	0.00%		
<b>WEED SEED</b>	0.10%		
<b>TEST DATE</b>	10-09		
<b>NET WEIGHT:</b>	50 POUNDS		
<b>NOXIOUS WEED SEED: (PER POUND)</b>	NONE FOUND		

Shipper Name: PENNINGTON SEED INC ALABAMA DIVISION  
Address: 2210 INDUSTRIAL DR CULLMAN AL 36001

Arbitration/Conciliation/Mediation required by several states. Under the seed laws of several states, arbitration, mediation, conciliation is required as a prerequisite to maintaining a legal action based upon the failure of seed, to which this notice is attached, to produce as represented. The consumer shall file a complaint (sworn by for: FL, IN, MS, SC, TX, WA, signed only CA, GA, ID, MO, SD) along with the requested filing fee (where applicable) with the Commissioner/Director/Secretary of Agriculture, Seed Commissioner (MS), or Chief Agricultural Officer (purchase). A copy of the complaint shall be sent to the seller by certified or registered mail or as otherwise provided by state statute.

**GULF ANNUAL RYEGRASS**

<b>LOT: D3-8-G33</b>	<b>NET WT. 50 LBS.</b>
<b>PURE SEED 95.00%</b>	<b>ORIGIN: OR</b>
<b>CROP SEED 2.50%</b>	<b>GERM: 90%</b>
<b>INERT MATTER 2.00%</b>	<b>TESTED: 10/2009</b>
<b>WEED SEED 0.50%</b>	<b>AMS: 661</b>
<b>NOXIOUS WEEDS: NONE FOUND</b>	
<b>THE WAX COMPANY</b>	
<b>AMORY, MS</b>	

**GULF ANNUAL RYEGRASS**

<b>LOT: D3-8-G33</b>	<b>NET WT. 50 LBS.</b>
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<b>NOXIOUS WEEDS: NONE FOUND</b>	
<b>THE WAX COMPANY</b>	
<b>AMORY, MS</b>	



- Pre-Measure
  - 652.03 ( c ) Inspection
- Ground Preparation
  - 651.03 ( c ) Ground Preparation
  - 652.3 ( f ) 2. Initial Fertilization and Lime
- Seeding
  - Tickets
  - 860.01 ( c ) Seed Mixes and Method of Correction for Deficient Purity and Germination

# REQUIRED, SEEDING, FERTILIZER, & MULCH

	SQFT	ACRE
Left Side	46500.00	1.067
Right Side	50000.00	1.147
Intersections	0.00	0.000

**2.2 ACRE**

<b>HAY</b>	<b>TICKETS</b>		<b>REQUIRED</b>		<b>Spec. Book</b>		
	0	Tons	4.4	Tons	Tons Per Acre 2		
<b>SEED</b>	RYE	100 lbs.	64.3 lbs.		<b>Spec. Book</b>		
	UNHULLED	50 lbs.	51.8 lbs.		lbs. Per Acre		
	C. Clover	100 lbs.	123.5 lbs.			%Pure	%Germ.
	Pensacola	100 lbs.	108.5 lbs.				
<b>FERTILIZER</b>	8X8X8	NONE lbs.	3300 lbs.		<b>2ND APPLICATION</b>		
	13X13X13	1450 lbs.	2031 lbs.				
	16.5X16.5X16.5	NONE lbs.	1599 lbs.				

$$\text{Hay} = (\text{Tons Per Acre} \times \text{Acres})$$

$$\text{Seed} = ((\text{lbs. Per Acre} / (\% \text{ Pure} \times \% \text{ Germination})) \times \text{Acres})$$

$$\text{Fertilizer} = 1\text{st}(\text{lbs. Per Acre} \times \text{Acres}) + 2\text{nd}((\# \text{ Per Acre} / 3) \times \text{Acres})$$

## ALDOT SEED MIX CORRECTION

### SEED MIX CORRECTION (Sections 652 and 860)

The required weight of seed in Section 860 tables is based on "Pure Live Weight." Not all of the contents of a bag of seed is viable seed. Bags are tagged with % Pure Seed and % Germination. Both affect the amount of viable seed that is contained in the bag. To calculate the quantity of seed required of a specific bag the required pure live seed weight is divided by these percentages multiplied together.

Example - How many pounds of Hulled Bermudagrass is required in an area subject to frequent mowing in Zone 1 on April 15? The contractor is providing seed with 90% purity and 80% germination.

The Table in section 860 requires 15 pounds per acre of Hulled Bermudagrass for areas subject to frequent mowing in Zone 1 from March 1 to May 15. We will need more than 15 pounds of seed to account for the deficiencies in purity and germination. The calculation is as follows:

$$15\text{lb} / (0.90 \times 0.80) = 20.8\text{lb required per acre}$$

$$\text{How many 50lb bags per acre?} \quad (20.8 \text{ lbs/ acre}) / (50\text{lb/bag}) = 0.4 \text{ bags per acre}$$

$$\text{How many 50lb bags for 5 acres?} \quad 5 \text{ acres} \times 0.4 \text{ bags per acre} = 2 \text{ bags}$$

- Pre-Measure
  - 652.03 ( c ) Inspection
- Ground Preparation
  - 651.03 ( c ) Ground Preparation
  - 652.3 ( f ) 2. Initial Fertilization and Lime
- Seeding
  - Tickets
  - 860.01 ( c ) Seed Mixes and Method of Correction for Deficient Purity and Germination
- Ground Cover
  - 652.03 ( f ) 4. Covering Seed







- Pre-Measure
  - 652.03 ( c ) Inspection
- Ground Preparation
  - 651.03 ( c ) Ground Preparation
  - 652.3 ( f ) 2. Initial Fertilization and Lime
- Seeding
  - Tickets
  - 860.01 ( c ) Seed Mixes and Method of Correction for Deficient Purity and Germination
- Ground Cover
  - 652.03 ( f ) 4. Covering Seed
  - 860.03 Mulching Material

# REQUIRED, SEEDING, FERTILIZER, & MULCH

	SQFT	ACRE
Left Side	46500.00	1.067
Right Side	50000.00	1.147
Intersections	0.00	0.000

**2.2 ACRE**

HAY		TICKETS		REQUIRED		Spec. Book		
		0	Tons	4.4	Tons	Tons Per Acre		
						2		
SEED						Spec. Book		Ticket
						lbs. Per Acre	%Pure	%Germ.
	RYE	100	lbs.	64.3	lbs.	25	0.950	0.900
	UNHULLED	50	lbs.	51.8	lbs.	10	0.500	0.850
	C. Clover	100	lbs.	123.5	lbs.	25	0.594	0.750
Pensacola	100	lbs.	108.5	lbs.	40	0.977	0.830	
FERTILIZER						2ND APPLICATION		Spec. Book
	8X8X8	NONE	lbs.	3300	lbs.	1100	lbs.	lbs. Per Acre
	13X13X13	1450	lbs.	2031	lbs.	677	lbs.	1500
	16.5X16.5X16.5	NONE	lbs.	1599	lbs.	533	lbs.	923
								727

$$\text{Hay} = ( \text{Tons Per Acre} \times \text{Acres} )$$

$$\text{Seed} = ( ( \text{lbs. Per Acre} / ( \% \text{ Pure} \times \% \text{ Germination} ) ) \times \text{Acres} )$$

$$\text{Fertilizer} = 1\text{st}( \text{lbs. Per Acre} \times \text{Acres} ) \quad 2\text{nd}( ( \# \text{ Per Acre} / 3 ) \times \text{Acres} )$$











# **Bijan Shirazi**

## **Mobile County Public Works**

### **Waterline Documentation Submittal**

# PROCEDURES TO FOLLOW BEFORE SUBMITTING WATERLINE DOCUMENTATION

1. Coordinate with the Design Engineer responsible for water line design to verify the final quantities documented by the inspector representing the water authority are consistent with the county's inspector performing the CE&I.
2. Any changes to the original design should be handwritten in **RED** on the As-Built drawings.
3. Ensure the final quantities for each pay items are the same in the Field Book, the Summary Of Quantities For Pay Items, The Construction Estimate, The Summary Of Quantities in the As-Built Plan Set, and the Daily Reports. Do not include insert drawings. Any changes to the original plan must be shown on the As-Built Plan Set.



# **PROCEDURES TO FOLLOW BEFORE SUBMITTING WATERLINE DOCUMENTATION (continued)**

4. Describe on the As-Built Plan Set the waterline and its components so it is clearly depicted as listed in the filed book. (This includes showing all fittings, valves, waterline, services, etc. on the As-Built Plan Set.)
5. Field Book should list documentation separately for each road where work was performed. Be sure to reference in the index where documentation for each road may be located.

# **WATERLINE DOCUMENTATION**

1. Manufacturer's Certifications for Waterline Components. \*
2. Fitting schedules from manufacturer listing the types and weights of fittings installed.\*  
(This information is provided by the contractor. )
3. Field book pages AND Daily Reports documenting quantities.\*
4. As-Built Plans showing final quantities and locations.\*

\* All information to be provided to Mobile County Engineering Office by first pay estimate following completion of all water line work.

**641A-001 3/4" Copper Service Pipe Laid (LF)**

### Pay To 2 Decimal Places

DATE	STA	QTY	QTY TO DATE	EST. PAID	Description / Road
7-7-07	20 + 30 RT	30.00	30.00	1	Long Side Service /Smith Road
7-7-07	21 + 05 LT	15.00	45.00	1	Short Side Service/Smith Road
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>PAY 45.00 LF</b> </div>					

**641A-049 6" P.V.C. Water Main Laid (SDR21) (LF)****Pay To 2 Decimal Places**

DATE	STA	STA	QTY	QTY TO DATE	EST. PAID	Description / Road
6-2-07	10 + 50 LT	14 + 30 LT	380.00	380.00	1	Smith Road
6-3-07	14 + 30 LT	22 + 45 LT	815.00	1195.00	1	Smith Road

**PAY 1195.00 LF**



**641C-000 Ductile Iron M.J. Fittings (Lbs.)****Pay To 1 Decimal Places**

DATE	STA	QTY	QTY TO DATE	EST. PAID
9-1-07	27 + 40 LT	39.0	39.0	1
9-1-07	27 + 40 LT	10.0	49.0	1

Description / Road

(1) 6" - 90 M.J. Bend

Smith Road

(1) 6" Retaining Gland

Smith Road

(Refer to fittings schedule for verification of weights.)

**PAY 49.0 LBS**

# 641J-004 6" Valve & Box (Ea.)

Pay To 0 Decimal Places

DATE	STA	QTY	QTY TO DATE	EST. PAID	Description / Road
6-15-07	17 + 35 LT	1	1	1	Smith Road

PAY 1 EA



**641D-000 Fire Hydrant (Ea.)****Pay To 0 Decimal Places**

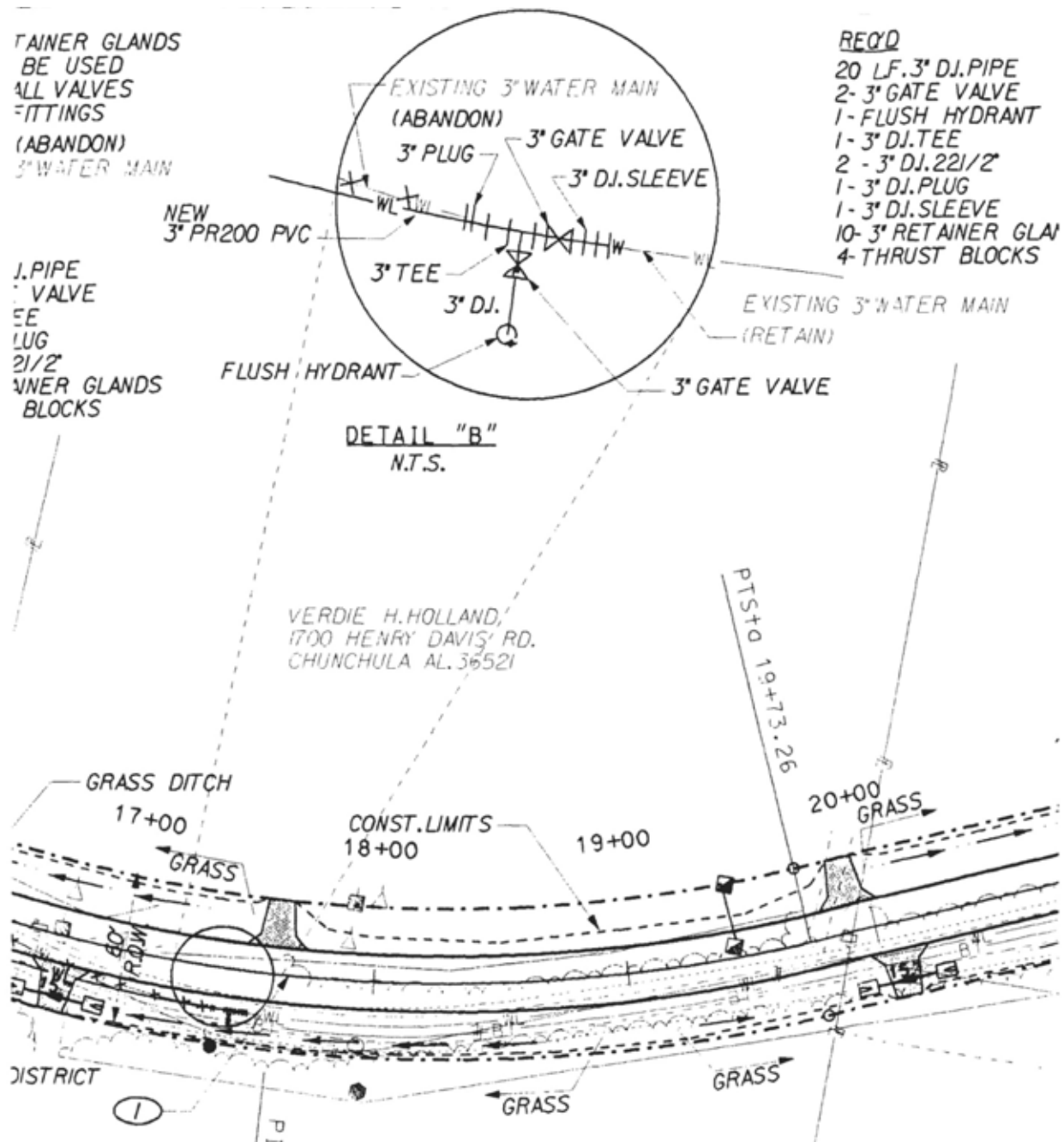
<b>DATE</b>	<b>STA</b>	<b>QTY</b>	<b>QTY TO DATE</b>	<b>EST. PAID</b>	<b>Description / Road</b>
6-16-07	17 + 35 LT	1	1	1	Smith Road

**PAY 1 EA**

**641P-000 3/4" Service Tap (Ea.)****Pay To 0 Decimal Places**

DATE	STA	QTY	QTY TO DATE	EST. PAID	Description / Road
7-7-07	20 + 30 RT	1	1	1	Smith Road
7-7-07	21 + 05 LT	1	2	1	Smith Road

**PAY 2 EA**



# **The End Thank You.**

**If you would like additional copies of the Manual or a copy of the  
Presentation go to [www.mobilecountypublicworks.net](http://www.mobilecountypublicworks.net)  
Under Reports (on the left of the page) you will find the PDF files.**

**If you have any questions  
Please See  
James Vorpahl  
before you leave.**

Home #	251 555-2424
Wife #	251 555-2626
Daughter #	251 555-4267
Son's #	251 555-2734
Dog's #	251 555-2411