



Applied Chemistry, Creative Solutions

**Solutia Inc.**  
300 Birmingham Highway  
Anniston, Alabama 36201  
Tel 256-231-8447

March 30, 1999



Mr. Wm. Gerald Hardy, Chief  
Hazardous Waste Branch  
Land Division  
Alabama Department of Environmental Management  
1751 Cong. W. L. Dickinson Drive  
Montgomery, AL 36130-1463

**Re: Supplemental Interim Measures Report  
Solutia Inc. Anniston, AL Facility  
EPA ID No. ALD 004 019 048**

Dear Mr. Hardy:

Attached is a report on the Supplemental Interim Measures which were constructed on the north side of the Solutia Anniston Facility in 1998. The report satisfies the requirements of condition III.F.3.b of the Part B Permit and is submitted in fulfillment of those requirements.

Please call if you have any questions about the report.

Sincerely,

SOLUTIA INC.

Alan G. Faust

Manager of Remedial Projects

***SUPPLEMENTAL INTERIM  
MEASURES REPORT***

***SOLUTIA FACILITY***

***ANNISTON, ALABAMA***

***Submitted By:***

***Solutia Inc.  
300 Birmingham Highway  
Anniston, Alabama***

***March 30, 1999***

March 30, 1999

## 1. INTRODUCTION

This supplemental Interim Measures Report has been prepared pursuant to the requirements of Condition III.F.3.b of the Alabama Hazardous Wastes Management and Minimization Act (AHWMMA) Post Closure Permit for the Solutia Facility (the facility) located in Anniston, Alabama (RCRA Permit # ALD 004 019 048). It summarizes the details of supplemental Interim Measures which were constructed at the facility in the period between August 15, 1998 and December 31, 1998. These measures were proposed by Solutia to minimize the potential for constituents to migrate from the facility in the future and were determined to be appropriate by the Alabama Department of Environmental Management (ADEM) in a letter dated March 11, 1997. The details of the supplemental Interim Measures were provided in a Work Plan, which was approved by ADEM in a letter dated September 10, 1998.

The Interim Measures described in that Work Plan supplement measures which were constructed by Solutia in 1997 and which were described in an Interim Measures report submitted to ADEM on March 31, 1998. In summary, the supplemental measures described in this report were designed to contain soils and sediments downgradient of the West End Landfill. They include the following major elements:

- a soil cover constructed on Solutia-owned property in those areas where testing has shown the surficial soils to be affected;
- a stormwater management system in which stormwater flowing under the railroad tracks is collected and conveyed in a 42 inch diameter HDPE pipe to an existing culvert which runs along the north side of West Tenth Street. During periods of high precipitation, stormwater is stored in a small retention pond constructed in the northeast portion of the Solutia-owned property.

Each of these elements is discussed in the following sections of this report.

**Alutia Anniston Facility  
Supplemental Interim Measures Report  
Page 2 of 9**

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**2.**

## **DESCRIPTION OF WORK**

### **2.1. Overview**

The primary goal of the supplemental Interim Measures described in this supplemental report is to contain soils and sediments on property owned by Solutia downgradient of the West End Landfill. Those areas that may have acted as potential sources of constituents and the mechanisms which could transport these materials offsite were identified by an extensive soil and sediment sampling program conducted between 1995 and 1997. Previous sampling efforts demonstrated that the primary transport mechanism for sediments was surface water and, in particular, stormwater flows that exceeded the capacity of the culvert systems in the drainage ways north and east of the Solutia plant. Because the affected soils and sediments are generally confined to the near-ditch areas of the drainage ways, the implementation of a comprehensive stormwater management system and the isolation and containment of soils provided the best means of achieving the primary goal of the Interim Measures program. This program is based on the requirement that areas in which affected soils and sediments have been identified will be isolated and contained with appropriate covers to prevent offsite migration.

Details of the actions designed to fulfill this goal are provided in the following sections, while the final design drawings are included in Attachment 1. The as-built topography is shown on drawings included in Attachment 2. It is noted that the drawings presented in these attachments include details of construction undertaken on the West End Landfill and on the East Side at the former location of the Bethel Missionary Baptist Church. Neither of these efforts forms a part of the supplemental Interim Measures described herein. The work on the landfill represents maintenance activities and consisted of the repair of a small area of the cover and the rehabilitation of the slope drainage system. The cover constructed on the East Side represented the completion of one of the Interim Measures constructed in 1997. Because the new Bethel Missionary Baptist Church was not

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completed until January 1998, the soil cover in this area could not be completed until the 1998 construction season.

## 2.2 Soil Cover

A cover was constructed on Solutia-owned property north of the railroad tracks. The objective of the cover is to isolate and contain potentially affected surficial soils and control stormwater drainage through this area. A large number of soil and sediment samples from within the area have been analyzed for PCBs. The extent of the cover was selected to include all of the sample locations on Solutia-owned property where PCB concentrations exceeded the screening level.

The entire area within the cover limits shown on Figure G-1 of Attachment 1 was cleared, with the exception of established mature trees. A 6-oz weight, continuous filament, needle punched, non-woven geotextile was installed in cleared areas to define the boundary between the cover and the former soil surface. Over the geotextile, a minimum of 14 inches of soil cover was placed and a vegetative cover was established by hydroseeding the cover soils. The existing drainage ditch was covered by the same textile and backfilled with as much as 3 to 5 feet of clean fill. A 40 mil HDPE geomembrane liner was then placed over the ditch area on Solutia-owned property and covered by the 14 in. thick soil cover. In those areas where the cover abuts property not owned by Solutia, a drainage swale was constructed near the edge of the cover to prevent runoff from Solutia's property from entering the adjacent properties.

The covered area is presently fenced and this fence will be maintained by Solutia as part of the normal Operations and Maintenance activities for this area. Further, no construction activities which involve excavation will be permitted without the prior approval of Solutia and warning signs will be fastened to the fence at 200 foot intervals.

The soil cover was constructed as shown on the original design drawings submitted with

the Supplemental Interim Measures Work plan with the exception that the grading plan in one area was revised to permit burial of concrete rubble removed from beneath the footprint of the berm. The design grades were increased in this area.

### **2.3 Stormwater Management**

As shown on Figures G-2 and G-3 of Attachment 1, stormwater runoff entering the site from the culvert under the railway tracks flows into a 7 ft. diameter drop manhole structure (the Primary Inlet). From there, the flow is directed into a 42 in. diameter welded HDPE pipeline to the corner of West Tenth Street and Parkwin Avenue, where it transitions into a 3 ft. x 6 ft. box culvert through a manhole structure. Flow from this new culvert is directed into an existing 2 ft. x 5 ft. culvert that runs along the north side of Tenth Street, under Clydesdale Avenue, and which discharges into a tributary of Snow Creek east of Clydesdale Avenue and north of the railroad tracks.

A low berm was constructed along West Tenth Street, Parkwin Avenue, and Duncan Avenue to create an impoundment, as shown on the drawings included in Attachment 1. This impoundment will collect stormwater runoff from the covered area, as well as the overflow from a manhole structure within the berm near the corner of West Tenth Street and Parkwin Avenue (the Secondary Inlet structure shown on the design plans included in Attachment 1). A perimeter ditch running along the outside of the berm along its northern and western sides conveys stormwater runoff from adjacent properties to a 30 in. x 54 in. sewer running eastwards under West Tenth Street. The berm is equipped with an emergency spillway on the north side which allows for stormwater release into the storm sewer system in the event of major storms which exceed the 100-year, 24-hour design storm.

With three exceptions, the stormwater management system was constructed as shown on the design drawings included in the approved Interim Measures Work Plan. The exceptions consist of the following:

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- In the original design, stormwater exiting from the culvert under the railroad tracks flowed into a 36 in. diameter welded HDPE pipe connected to the existing culvert with a flexible coupling. From there, the flow was to have been conveyed to the 42 in. pipe by a series of bends and manholes. Immediately prior to construction, it was discovered that this arrangement would have required the relocation of an old, but active, cast iron water supply main. Because of concerns about the integrity of the main, it was decided to revise this design. As constructed, stormwater from the culvert flows in the ditch that existed along the north side of the tracks until it enters Solutia-owned property, where it flows into the Primary Inlet. In order to prevent downstream migration of sediments in this ditch, it was first lined with HDPE and then with a proprietary concrete lining system sold under the trade name of Armorform. Details of the lining system are shown on Figures G-11 and G-12 of Attachment 1.
- The alignment of the 42 inch diameter HDPE pipe was revised in the vicinity of the intersection of Duncan Avenue and West Ninth Street. The original alignment would have resulted in one section of the pipe being located on property not owned or controlled by Solutia. The revised route keeps the pipeline either on Solutia-owned property or within the right-of-way of Duncan Avenue.
- Storm Manhole 1 located at the transition from the 42 inch diameter pipeline to the 3 ft x 6 ft. box culvert was designed to be a 9 ft. diameter pressure manhole. Because of production delays, a square pressure manhole of equivalent capacity was substituted.

ADEM was notified of the first two changes by letter (with revised drawings attached) dated July 21, 1998 and acknowledged the changes in their letter of August 13, 1998. The third change was not considered to be major enough to warrant ADEM's prior approval.

3.

## **SOIL CONSOLIDATION**

### **3.1. Completed Projects**

In a letter dated July 12, 1998, Solutia proposed to consolidate limited quantities of excavated soil beneath the covers to be constructed on the North Side and at the former location of the Bethel Missionary Baptist Church. The soil was to be excavated from certain off-site residential and commercial properties where previous testing identified small areas of impacted surface soils with PCB concentrations well below 50 ppm and generally below 15 ppm. This proposal was approved by ADEM in a letter dated August 19, 1998.

Soil excavated from the following properties was consolidated under the indicated areas of the cover:

- Soil excavated from a property at 705 Clydesdale Avenue was consolidated under the cover at the former location of the Bethel Missionary Baptist Church. The soil was placed within the footprint of the demolished structure and was covered with a geotextile fabric and at least 14 inches of clean soil.
- Soil excavated from properties at 721 Zinn Parkway, 1100 Pine Grove Road, and 1215 West Tenth Street was consolidated under the cover on the North Side. The soil was placed on the western side of Bancroft Road, in the vicinity of layout point No. 25 shown on Figure G-2 of Attachment 1. Some soil excavated from property at 901 Clydesdale Avenue was also consolidated in this location, while the rest of it was placed under the cover constructed in this area in 1997.

The locations of the consolidated soil are also shown on the as-built drawings included in Attachment 2.

### **3.2. Ongoing and Future Projects**

Soil is either currently being excavated, or will be excavated, from the following areas:

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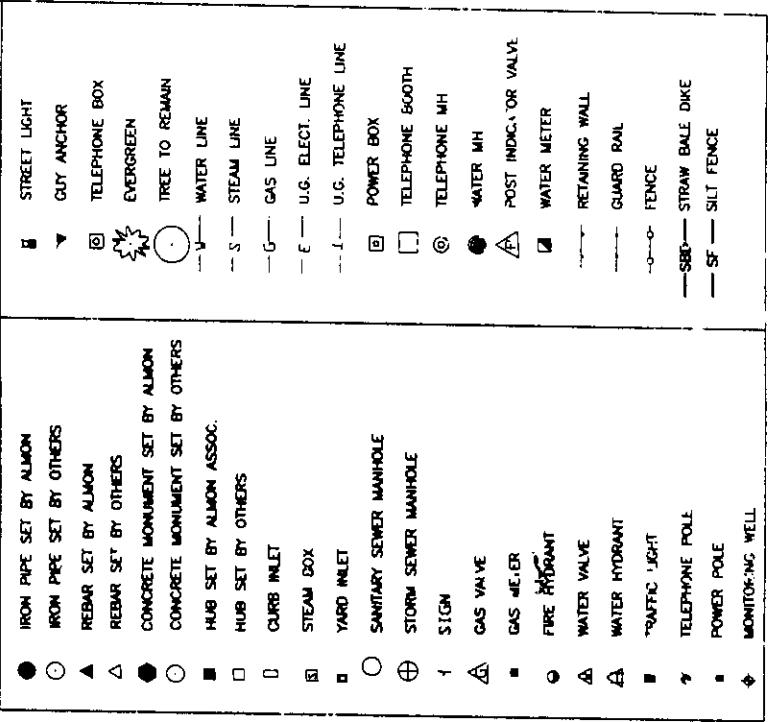
- Properties at 903 and 929 Clydesdale Avenue. The soil will be consolidated under the North Side cover on the western side of Bancroft Avenue, in the vicinity of layout point No. 25.
- Soil will be excavated from both the western and eastern sides of the First Avenue right-of-way (on the western side of the Solutia facility) and will be consolidated under the soil cover that was constructed around the West End Landfill.

4.

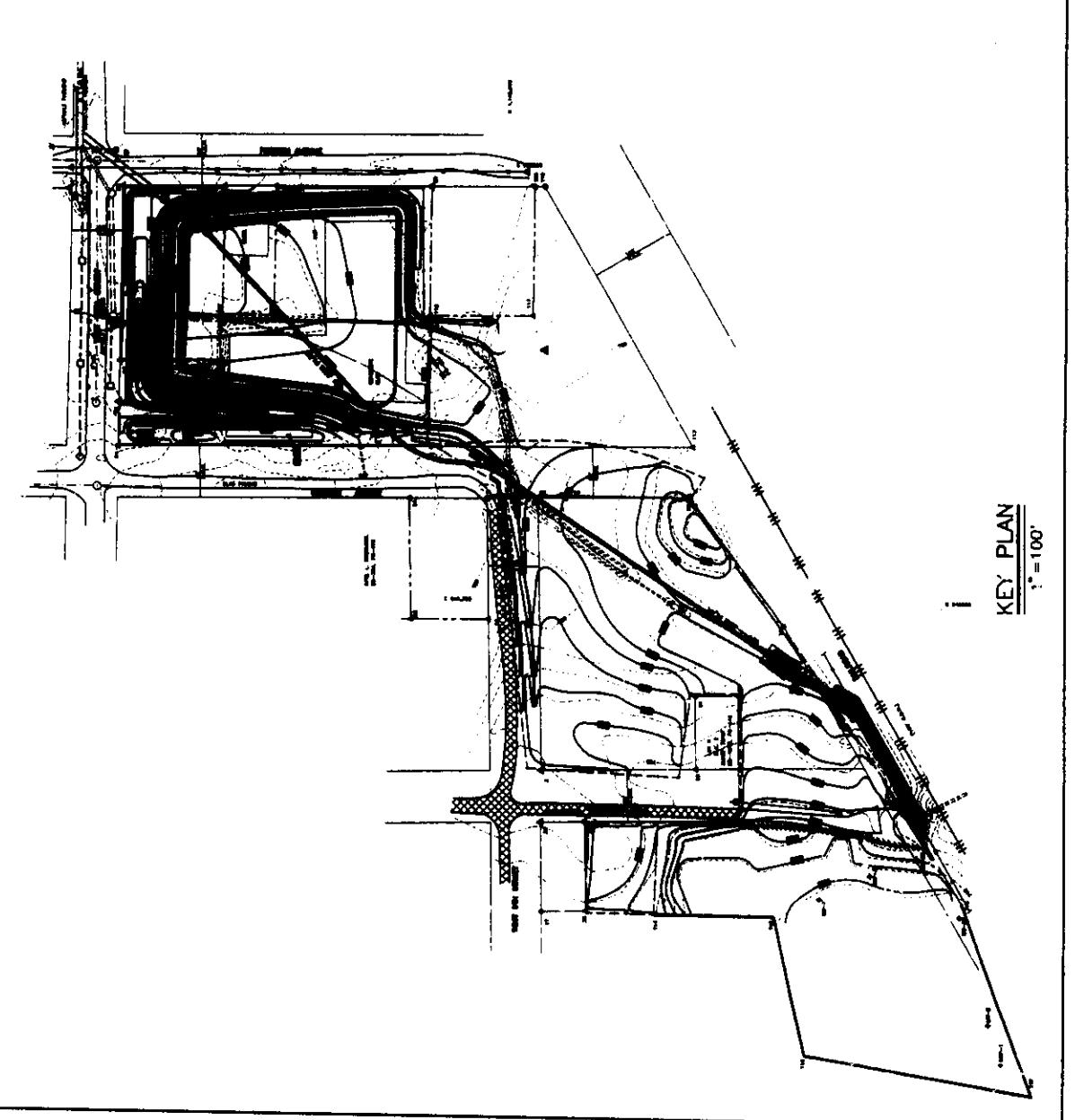
March 30, 1999

**REPAIRS AND MODIFICATIONS TO GROUNDWATER INSTALLATIONS**

Six monitoring wells and/or piezometers were modified prior to constructing the Supplemental Interim Measures. Details of the modifications were the same as those used during construction of the Interim Measures in 1997 and were approved by ADEM. A minor permit modification has been requested to include the new well elevations and any other changes in the facility Part B Permit.

**LEGEND****GRADING:**

- AREAS TO BE FILLED SHALL BE CLEARED OF VEGETATION, UTILITY POLES, FENCES AND ANY OTHER OBJECTIVE MATERIALS. COORDINATE DISPOSAL WITH CONSTRUCTION MANAGER.
- THE CONTRACTOR SHALL COORDINATE WITH EXISTING TREES WITHIN THE CORNER LIMITS.
- ALL FILLS SHALL BE COMPACTED AS SPECIFIED TO REDUCE EROSION.
- ALL FILLS SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 6 INCHES IN THICKNESS UNLESS A GREATER THICKNESS IS ALLOWED BY THE ENGINEER UPON DEMONSTRATION BY THE CONTRACTOR THAT THE HANDLES AND COMPACTIVE EFFORT ARE ADEQUATE TO OBTAIN THE REQUIRED DENSITY.
- WHERE COVER MATERIAL IS PLACED OVER EXISTING PAVED AREAS OR CONCRETE PADS, THE CONTRACTOR SHALL BREAK THE EXISTING PAVEMENT ON A 1:1 HORIZONTAL GRID. THE HOMES SHALL PENETRATE INTO THE EXISTING SUBGRADE GRANULAR COURSE.
- MINIMUM ALLOWABLE SLOPE OF COVER MATERIAL 1:V TO 3:H FOR THE FILL MATERIAL TO BE ADEQUATELY MAINTAINED ON LAYER.
- BERM IS TO BE PLACED ON NATIVE SOIL AND IN ACCORDANCE WITH SPECIFICATION 02297.
- WHERE THE PROPOSED BERM IS LOCATED OVER AN EXISTING CONCRETE SLAB, THE CONTRACTOR SHALL REMOVE A 10' WIDE STRIP OF CONCRETE AND BASE MATERIAL TO NATIVE SOIL. KEY BERM MATERIAL INTO THE REMOVED PORTION OF THE SLAB. MATERIALS REMOVED SHALL BE DISPOSED ON SITE AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
- THE WORKING AREA OF THE BORROW PIT SHALL NOT EXCEED 5 ACRES.
- BERM IS TO BE PLACED ON NATIVE SOIL AND IN ACCORDANCE WITH SPECIFICATION 02297.
- WHERE THE PROPOSED BERM IS LOCATED OVER AN EXISTING CONCRETE SLAB, THE CONTRACTOR SHALL REMOVE A 10' WIDE STRIP OF CONCRETE AND BASE MATERIAL TO NATIVE SOIL. KEY BERM MATERIAL INTO THE REMOVED PORTION OF THE SLAB. MATERIALS REMOVED SHALL BE DISPOSED ON SITE AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
- AN ABSOLUTE RESERVE OF EROSION CONTROL MATERIALS SHALL BE ON SITE AT ALL TIMES FOR EMERGENCY OR ROUTINE REPLACEMENT AND SHALL INCLUDE MATERIALS TO REPAIR SILT FENCES, HAYBALES, MULCH AND OTHER DEVICES USED TO STABILIZE THE SITE.
- THE AREAS OF CONSTRUCTION SHALL REMAIN IN STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY. EROSION CONTROL FACILITIES SHALL BE REGRADED, SEEDED AND MULCHED (WHERE NECESSARY) UPON COMPLETION OF CONSTRUCTION. PERIMETER SWALES SHALL BE CONSTRUCTED PRIOR TO EARTHWORK ACTIVITIES. STONE CHECK DAMS SHALL REMAIN IN PLACE UPON COMPLETION OF CONSTRUCTION.
- AN ABSOLUTE RESERVE OF EROSION CONTROL MATERIALS SHALL BE ON SITE AT ALL TIMES FOR EMERGENCY OR ROUTINE REPLACEMENT AND SHALL INCLUDE MATERIALS TO REPAIR SILT FENCES, HAYBALES, MULCH AND OTHER DEVICES USED TO STABILIZE THE SITE.
- THE LOCATION OF EXISTING SPRINGS OR GROUNDWATER SEEPAGE WHICH ARE NOT CONTROLLED BY THE STORMWATER SYSTEM AND SITE GRADING SHOWN ON THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- TEMPORARY EROSION CONTROL STRUCTURES TO BE CLEARED WHEN THEY REACH SITE CAPACITY AS DETERMINED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE FOR DISPOSAL OF MATERIAL. PRIOR TO RESETTING THE BOTTOM OF BASIN, CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT.
- THE CONTRACTOR SHALL PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVESED PUBLIC THOROUGHFARE(S) CAUSED BY HIS OPERATIONS BY INSTALLING AND MAINTAINING A STABILIZED CONSTRUCTION ENTRANCE, AND BY WASHING ALL VEHICLE WHEELS IN A SAFE DISPOSAL AREA. THE CONTRACTOR SHALL REMOVE IMMEDIATELY ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARE(S) CAUSED BY HIS OPERATIONS. THE CONTRACTOR IS NOTIFIED THAT IN WET WEATHER, OR MUDDY CONDITIONS, WASHING OF VEHICLE WHEELS IS MANDATORY. THIS APPLIES TO THE NORTHSIDE, WESTSIDE LANDFILL, AND BETHEL CHURCH PROPERTIES AS WELL AS THE BORROW PIT AREA.
- SILT FENCES SHALL BE INSTALLED AT TOES OF SLOPES IN DRAINS ALONG PROPERTY LINE, AND AT OTHER LOCATIONS NEEDED TO PREVENT AND CONTROL EROSION OF THE SITE DURING CONSTRUCTION AS SHOWN OR DIRECTED BY THE OWNER'S REPRESENTATIVE.
- ON-SITE SOIL STOCKPILE AREAS SHOULD NOT BE LOCATED WITHIN 50 FEET OF A CATCH BASIN OR INLET, STOCKPILE AREAS TO BE SURROUNDED WITH SILT FENCE, OR OTHER EROSION CONTROL MEASURES AS ORDERED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL HAVE A WATER TRUCK OR OTHER ACCEPTABLE ALTERNATIVE DEDICATED TO CONTROLLING DUST AVAILABLE AT ALL TIMES.
- THE CONTRACTOR SHALL DRAFT FILTER FABRIC OVER THE INSIDE OF THE PERIMETER FENCE FOR DUST CONTROL.
- ON-SITE SOIL STOCKPILE AREAS SHOULD NOT BE LOCATED WITHIN 50 FEET OF A CATCH BASIN OR INLET, STOCKPILE AREAS TO BE SURROUNDED WITH SILT FENCE, OR OTHER EROSION CONTROL MEASURES AS ORDERED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL HAVE A WATER TRUCK OR OTHER ACCEPTABLE ALTERNATIVE DEDICATED TO CONTROLLING DUST AVAILABLE AT ALL TIMES.
- THE CONTRACTOR SHALL DRAFT FILTER FABRIC OVER THE INSIDE OF THE PERIMETER FENCE FOR DUST CONTROL.

**KEY PLAN**

1"=100'

**GENERAL NOTES**

- EXISTING TOPOGRAPHIC FEATURES, BOUNDARY INFORMATION AND EXISTING UTILITY LOCATIONS TAKEN FROM A TOPOGRAPHIC MAP PREPARED BY ALUMINUM ASSOCIATES, INC. - DATED 12/3/97, JOB NO. 96-068.09
- TOPOGRAPHIC BENCH MARK #P13 ELEVATION 729.33 CHISELED SQUARE IN SW CORNER OF OVERHEAD SIGNAL ON RAILROAD 200' WEST OF CLOTHOUSE CROSSING.

**ALABAMA STATE SPECIFICATIONS**

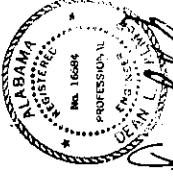
- IN SCOPE TO ALABAMA DOT STANDARD FEATURES, BOUNDARY INFORMATION AND EXISTING UTILITY LOCATIONS TAKEN FROM A TOPOGRAPHIC MAP PREPARED BY ALUMINUM ASSOCIATES, INC. - DATED 12/3/97, JOB NO. 96-068.09
- FOR CLARIFICATION, WHERE THE STATE OF ALABAMA OR THE ALABAMA DOT OR ADMINISTRATIVE OFFICERS OR EMPLOYEES THEREOF ARE NAMED IN THE STANDARD SPECIFICATIONS, SUCH REFERENCES SHALL BE TAKEN TO MEAN EITHER ENGINEER OR OWNER.
- CONTRACTOR SHALL OBTAIN MATERIALS TO BE INCORPORATED INTO THE WORK SHOWN ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN AND SUBMIT A MANUFACTURER'S MATERIAL CERTIFICATION TO THE ENGINEER FOR EACH MATERIAL ITEM AS SPECIFIED IN THE DRAWINGS. PRODUCT DATA SHEETS OF GENERAL REQUIREMENTS, INDICATING THAT THE RESPECTIVE ITEM MEETS THE APPLICABLE ALABAMA DOT OR SPECIAL SPECIFICATIONS INCLUDED IN THIS CONTRACT.
- THE CONTRACTOR IS ADVISED THAT THE METHOD OF MEASUREMENT AND BASIS OF EXISTING UTILITIES, STRUCTURES AND ROADWAYS.

**GENERAL:**

- THE CONTRACTOR IS RESPONSIBLE FOR DETAINING ALL APPLICABLE ACTIVITIES INCLUDING BUT NOT LIMITED TO ROAD CUT CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE CONCERNING WHAT PERMITS WILL BE REQUIRED PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL/PROTECTION PLAN FOR THE WORK TO BE PERFORMED AND SUBMIT IT TO THE OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK ON SITE. THE TRAFFIC PLAN SHALL MAKE ALLOWANCES FOR A FLAG MAN TO BE PRESENT AT THE BORROW PIT ENTRANCE/DUST DURING PERIODS OF EXCAVATION.
- THE CONTRACTOR SHALL MAINTAIN VEHICLE ACCESS AT ALL TIMES TO THE BORROW PIT. THE BORROW PIT IS BEING HAULED FROM THE AREA TO ANNISTON IRON WORKS LOCATED AT THE SOUTHERN END OF PARKIN AVENUE.
- THE CONTRACTOR SHALL MAINTAIN ALL PERIMETER FENCING TO THE MAXIMUM EXTENT POSSIBLE THROUGHOUT CONSTRUCTION, WHERE FENCING IS REQUIRED TO BE TEMPORARILY TAKEN DOWN TO ACCOMMODATE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN AND SECURE THE OPENING ON A NIGHTLY BASIS.

**NORTHSIDE PROPERTIES CLOSURE DESIGN**  
ANNISTON - ALABAMA  
GENERAL

**PLAN, NOTES & LEGEND**  
IN CHARGE OF *John* FILE NO. 2800.037-006  
DESIGNED BY *TUS* CHECKED BY *AJC* DATE *1/1/98*



**PLAN, NOTES & LEGEND**  
IN CHARGE OF *John* FILE NO. 2800.037-006  
DESIGNED BY *TUS* CHECKED BY *AJC* DATE *1/1/98*

G-1

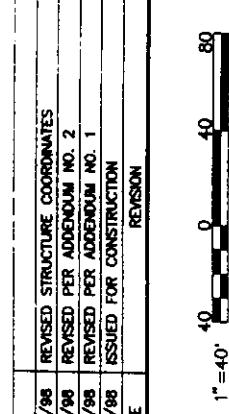
PT. NO.	NORTHING	EASTING	descriptor
2	1147980.144	649299.339	REBAR FOUND
9	1147984.152	649614.891	REBAR FOUND
10	1148024.090	649613.711	COTTON PICKER SPINDLE
16	1147678.435	649470.670	I.P.F.
25	1147910.075	649240.814	REBAR FOUND
26	1147981.127	649239.567	I.P.F.
27	1147959.645	649135.705	REBAR FOUND
28	1147908.590	649136.954	REBAR SET
41	1148513.458	649965.645	REBAR FOUND
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51	1147781.931	649387.915	REBAR SET
52	1147731.922	649389.055	REBAR SET
53	1147730.091	649244.563	REBAR SET
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55	1148022.312	649447.744	REBAR SET
56	1148112.306	649447.747	REBAR SET
57	1147787.668	649387.917	REBAR SET
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89	1148089.973	649387.917	REBAR SET
94	1148453.775	649387.917	REBAR SET
95	1148449.592	649387.917	REBAR SET
96	1148332.619	649387.917	REBAR SET
97	1148452.426	649387.917	REBAR SET
98	1148332.434	649387.917	REBAR SET
99	1148088.795	649387.917	REBAR SET
105	1148329.528	649387.917	REBAR SET
106	1148269.601	649387.917	REBAR SET
107	1148331.963	649387.917	REBAR SET
108	1148271.809	649822.592	I.P.F.
109	1147969.979	649974.955	CPS IN PAVEMENT
110	1147958.130	649975.076	CPS IN PAVEMENT
111	1147972.062	649824.970	REBAR SET
112	1148092.055	649823.753	REBAR SET
113	1147784.684	649676.165	REBAR SET
114	1147829.210	649134.396	COORD. PT. GRADING LIMIT
115	1147689.474	649134.151	COORD. PT. GRADING LIMIT
116	1147652.754	6489350.017	COORD. PT. GRADING LIMIT
117	1147389.867	648926.269	COORD. PT. GRADING LIMIT
118	1147471.947	649152.987	COORD. PT. GRADING LIMIT
PC1	1148001.226	649637.696	PC - CURVE 1
PI1	1148027.511	649655.010	PI - CURVE 1
R1	1148058.985	649850.010	RADIUS - CURVE 1
PT1	1148058.985	649855.010	PT - CURVE 1
PC2	1148058.985	649855.010	PC - CURVE 2
P12	1148104.245	649655.010	PI - CURVE 2
R2	1148058.985	649760.010	RADIUS - CURVE 2
PT2	1148135.322	649887.914	PT - CURVE 2
-	1147682.407	649427.691	CENT. - PRIMARY I.S.
-	1148351.285	649916.587	CENT. - SECONDARY I.S.
-	1148402.085	649954.913	CENT. STORM MH 1

3	8/21/98	REVISED STRUCTURE COORDINATES
2	6/25/98	REVISED PER ADDENDUM NO. 2
1	5/11/98	REVISED PER ADDENDUM NO. 1
0	4/13/98	ISSUED FOR CONSTRUCTION
NO.	DATE	INT. REVISION

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INCLUSIONS IN THE STAND SCALE MAY BE INTRODUCED WHEN DIMENSIONS ARE REPRODUCED BY ANY MEANS, SUCH AS GRAPHIC SCALE AND IN THE ACTUAL SCALE OF THIS DRAWING.  
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER THIS DOCUMENT.

#### DRAWING NOTES

1. CONTRACTOR SHALL PROTECT EXISTING MONITORING WELLS FROM DAMAGE AND CONSTRUCT MONITORING WELL PROTECTION IN ACCORDANCE WITH THE DETAIL ON SHEET G-6.
2. CONTRACTOR SHALL EXTEND CURB TO APPROXIMATE LIMIT AS SHOWN.
3. NO CONSTRUCTION TRAFFIC ALLOWED, ON SHADED PORTIONS OF WEST 9TH STREET AND BANCRAFT ROAD.
4. CONTRACTOR TO RELOCATE FENCE TO LOCATIONS SHOWN ON PLANS IF ANY FENCE IS REMOVED FOR CONSTRUCTION.



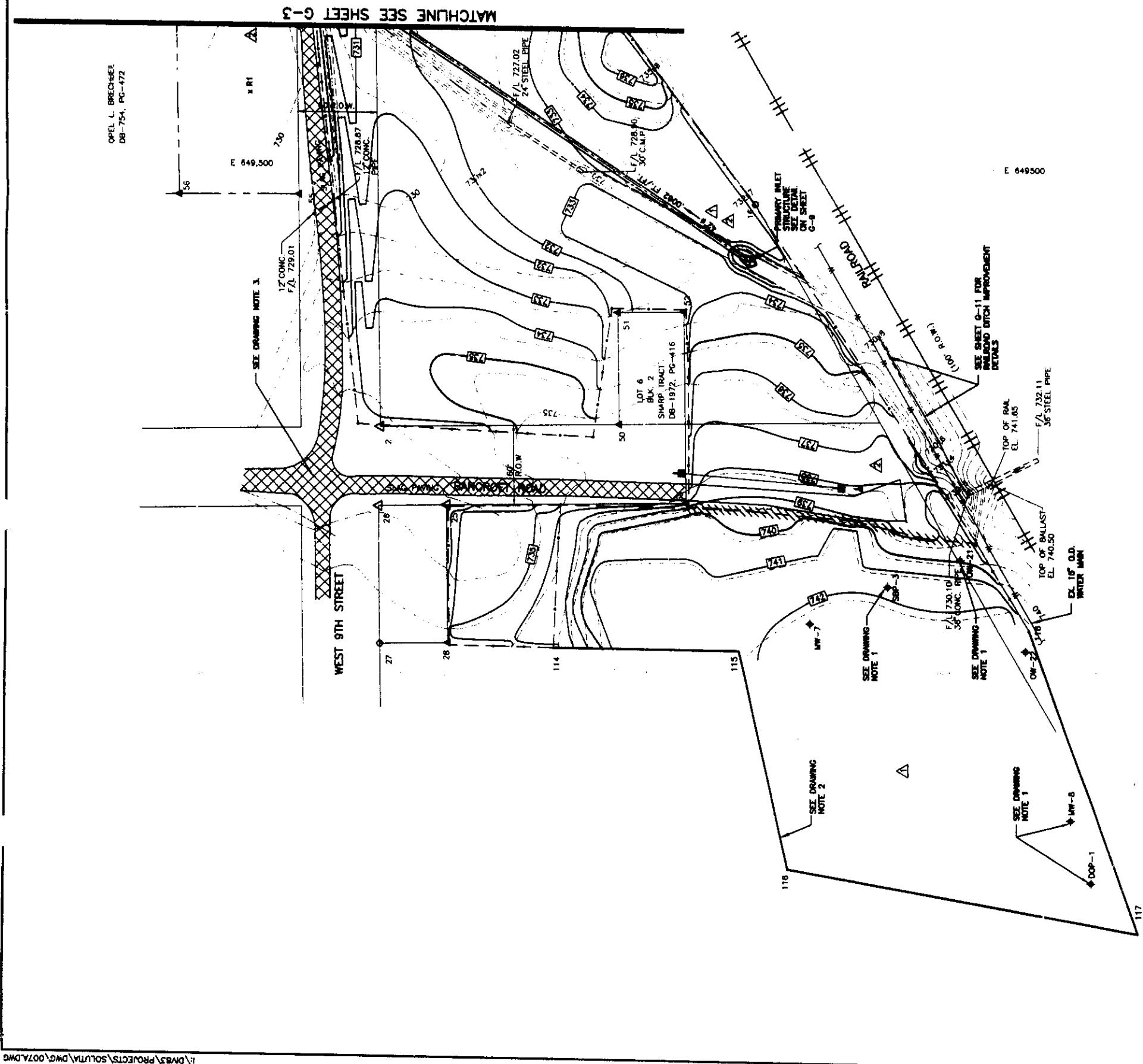
SOLUTIA INC.  
NORTHSIDE PROPERTIES CLOSURE DESIGN  
ANNISTON ALABAMA

GENERAL

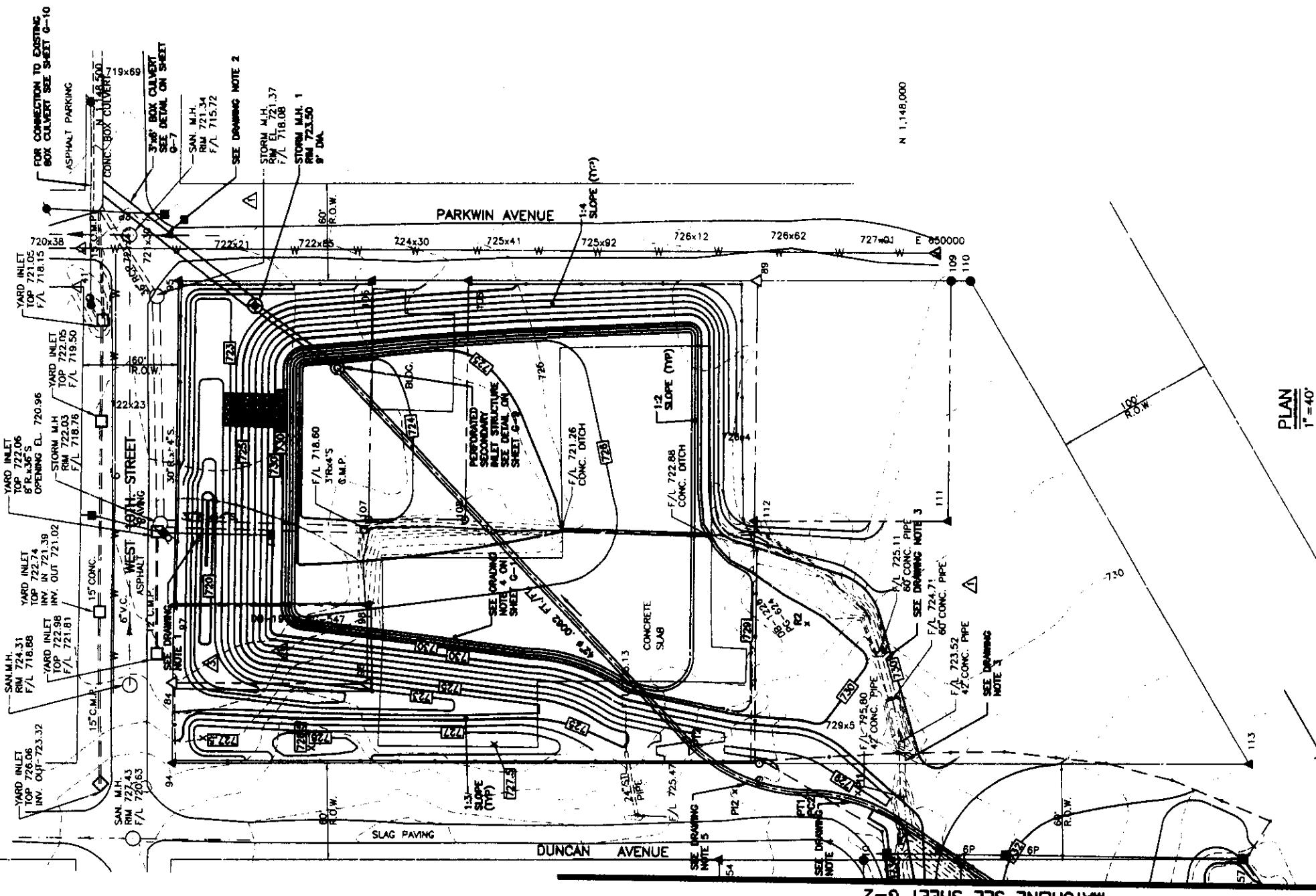
#### GRADING PLAN

IN CHARGE OF *Mark Miller* FILE NO. 2800.037-007  
DESIGNED BY J.S. CHECKED BY A.M. DATE

PLAN  
 $1''=40'$   
G-2



PT. NO.	NORTHING	EASTING	DESCRIPTOR
2	1147960.144	649299.339	REBAR FOUND
9	1147964.152	649614.891	REBAR FOUND
10	1148024.090	649613.711	COTTON PICKER SPINDLE
16	1147678.435	649470.670	I.P.F.
25	1147910.075	649240.814	REBAR FOUND
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28	1147908.590	649136.954	REBAR SET
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51	1147781.931	649387.915	REBAR SET
52	1147731.922	649389.055	REBAR SET
53	1147730.091	649244.563	REBAR SET
54	1148114.084	649612.664	REBAR SET
55	1148022.312	649473.783	REBAR SET
56	1148112.306	649472.671	REBAR SET
57	1147787.668	649617.275	REBAR SET
84	1148453.083	649718.994	REBAR FOUND
89	1148089.973	649973.738	REBAR FOUND
94	1148453.775	649668.519	REBAR SET
95	1148449.592	64970.091	REBAR SET
96	1148332.619	649719.381	REBAR FOUND
97	1148452.426	649766.990	I.P.F.
98	1148132.434	649768.424	REBAR SET
99	1148088.796	649672.898	I.P.F.
105	1148329.598	649973.507	REBAR SET
106	1148269.601	649973.916	REBAR SET
107	1148331.963	649822.186	I.P.F.
108	1148271.809	649822.592	REBAR SET
109	1147969.973	649972.955	CPS IN PAVEMENT
110	1147958.130	649975.076	CPS IN PAVEMENT
111	1147972.062	649823.753	REBAR SET
112	1148092.055	649616.165	REBAR SET
113	1147784.684	64976.396	COORD. PT. GRADING LIMIT
114	1147829.210	649134.151	COORD. PT. GRADING LIMIT
115	1147689.474	649520.517	COORD. PT. GRADING LIMIT
116	1147652.754	648936.269	COORD. PT. GRADING LIMIT
117	1147389.867	649152.987	COORD. PT. GRADING LIMIT
118	1147471.947	649637.996	PC - CURVE 1
PC1	1148001.226	649635.010	PI - CURVE 1
P1	1148027.511	649635.010	RADIUS - CURVE 1
R1	1148058.985	649635.010	PT - CURVE 1
PT1	1148058.985	649635.010	PC - CURVE 2
PC2	1148058.985	649635.010	PI - CURVE 2
P12	1148104.245	649635.010	RADIUS - CURVE 2
R2	1148058.985	649635.010	PT - CURVE 2
PT2	1148135.322	649587.914	CENT. - PRIMARY I.S.
-	1147682.407	649427.691	CENT. - SECONDARY I.S.
-	1148351.289	649916.587	CENT. - STORM MH 1
-	1148402.086	649554.913	CENT. - STORM MH 2



NO.	DATE	REVISION
3	8/21/98	REVISED GRADING IN NORTHWEST CORNER OF BERM
2	6/25/98	REVISED PER ADDENDUM NO. 2
1	5/11/98	REVISED PER ADDENDUM NO. 1
0	4/13/98	ISSUED FOR CONSTRUCTION

IT IS A VIOLATION OF LAW FOR  
ANY PERSON, UNLESS ACTING UNDER  
THE DIRECTION OF A LICENSED DRA-  
WER, TO ALTER THIS DOCUMENT.  
PROFESSIONAL  
ENGINEERS  
IN ALABAMA  
CLEAN & GREEN



SOLUTIA INC.  
NORTHSIDE PROPERTIES CLOSURE DESIGN  
ANNISTON ALABAMA

GENERAL

## GRADING PLAN

FILE NO.	2800-037-008
DESIGNED BY	John L. Parker
CHECKED BY	AAC
DATE	MAY 11 1998
DRAWN BY	KFR
IN CHARGE OF	John L. Parker
PROFESSIONAL ENGINEERS IN ALABAMA	CLEAN & GREEN

G-3

PLAN  
1°=40'

2	6/25/98	REVISED PER ADDENDUM NO. 2
1	5/11/98	REVISED PER ADDENDUM NO. 1
0	4/13/98	ISSUED FOR CONSTRUCTION
NO.	DATE	REVISION
		INT.

1" = 40'



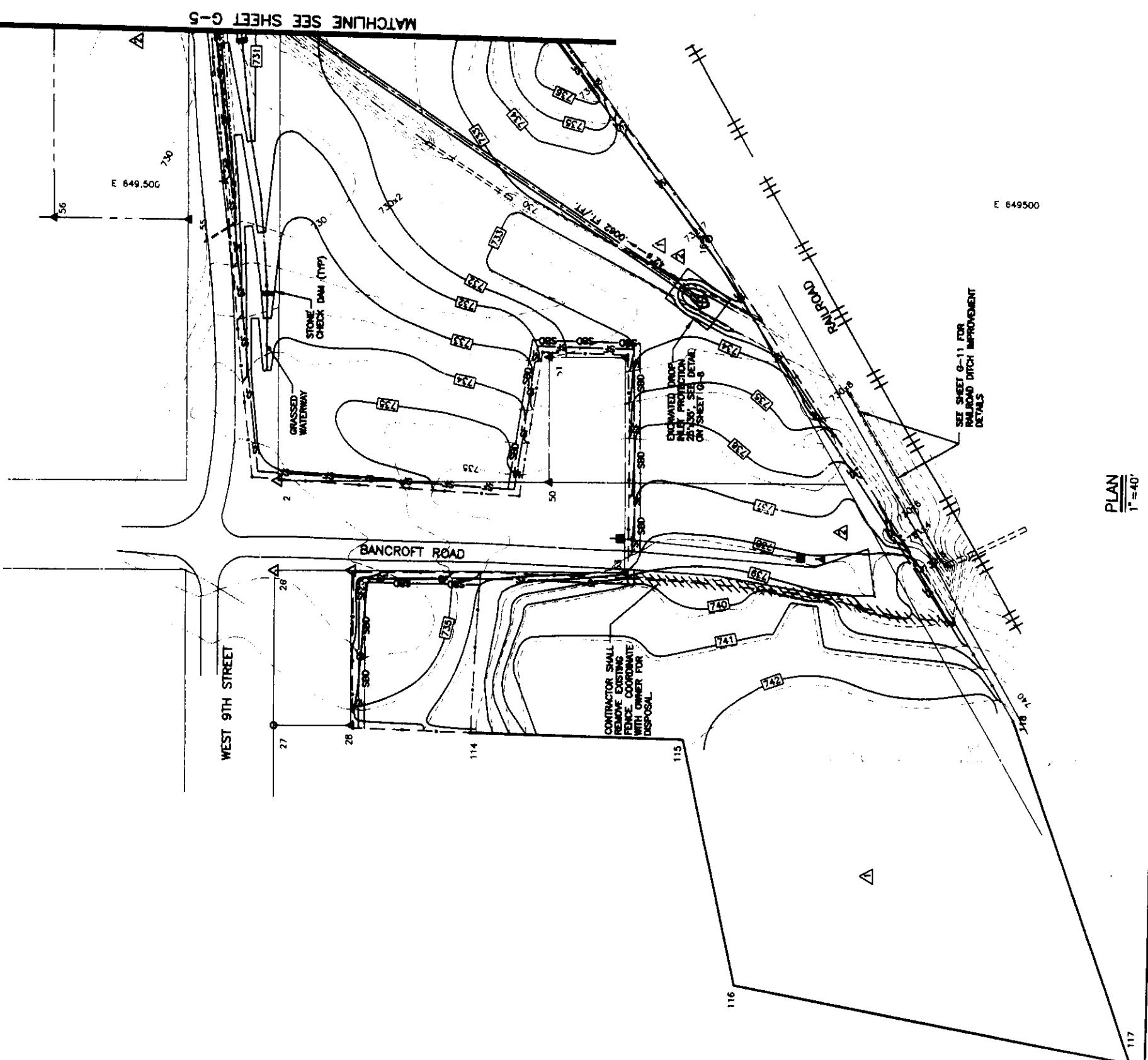
SOLUTIA INC.  
NORTHSIDE PROPERTIES CLOSURE DESIGN  
ANNISTON ALABAMA

GENERAL  
**EROSION & SEDIMENT  
CONTROL PLAN**



PLAN  
1"=40'

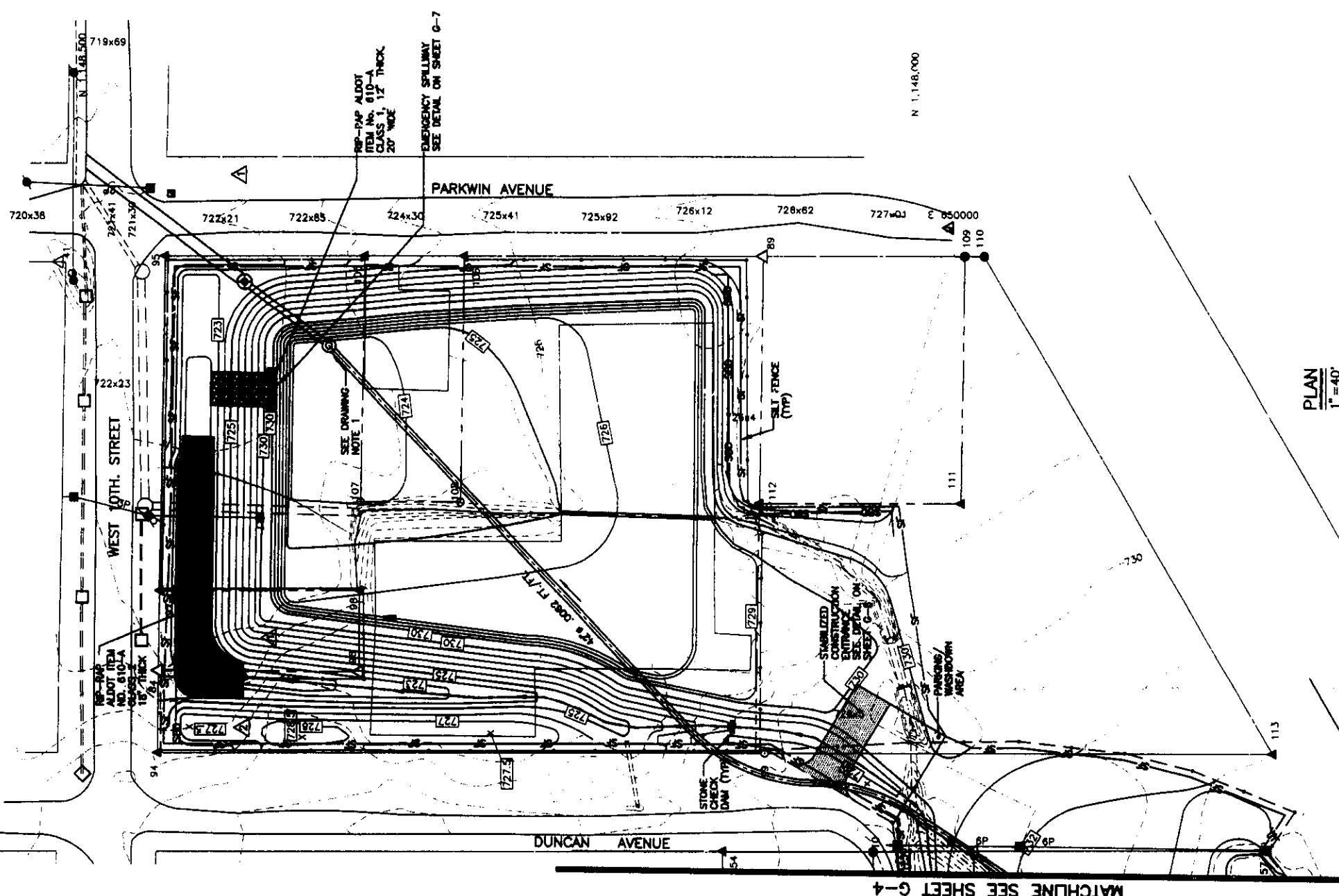
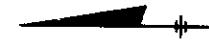
This drawing was prepared at the scale indicated in the title block. Reproduces in the stated scale may be introduced when dimensions are reproduced by any means. Use the graphic scale bar in the title block to determine the actual scale of this drawing.



FILE NO.	2600:037-009	G-4
DESIGNED BY T.S.	CHECKED BY A.M.	DATE MAY 11, 1998
DRAWN BY KFR		

## DRAWING NOTES

1. CONTRACTOR SHALL PROTECT PERFORATED CONCRETE RISER WITH FILTER FABRIC DRAPE OVER THE OUTSIDE AND TIDILY ATTACHED. THE FILTER FABRIC SHALL BE REMOVED AFTER COMPLETION OF CONSTRUCTION ACTIVITIES & SITE VEGETATION HAS BEEN RE-ESTABLISHED.



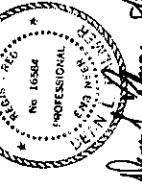
REVISED GRADING IN NORTHWEST CORNER OF BERM			
NO.	DATE	REVISION	REMARKS
2	8/21/98	REVISED	PER ADDENDUM NO. 1
1	5/1/98	ISSUED FOR CONSTRUCTION	
0	4/13/98		



SOLUTIA INC.  
NORTHSIDE PROPERTIES CLOSURE DESIGN  
ANNISTON ALABAMA

## GENERAL EROSION &amp; SEDIMENT CONTROL PLAN

FILE NO. 2600.037-010  
DATE MAY 11, 1998  
DESIGNED BY KFR  
DRAWN BY KFR  
IN CHARGE OF Alan Lohner  
PROFESSIONAL ENGINEER  
No. 1654  
LIC. NO. 111  
EXPIRES 06/02/2002



THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. MODIFICATIONS IN THE STATED SCALE MAY BE INTRODUCED WHEN DIMENSIONS ARE REDUCED OR ENLARGED. USE THE DIMENSION STATED IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER THIS DOCUMENT.

N 1,148,000

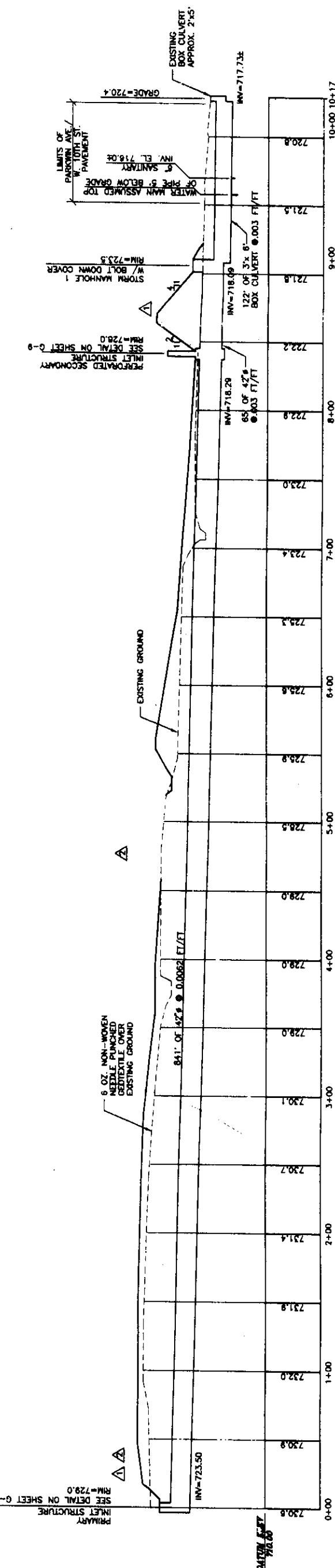
3

109 110

111

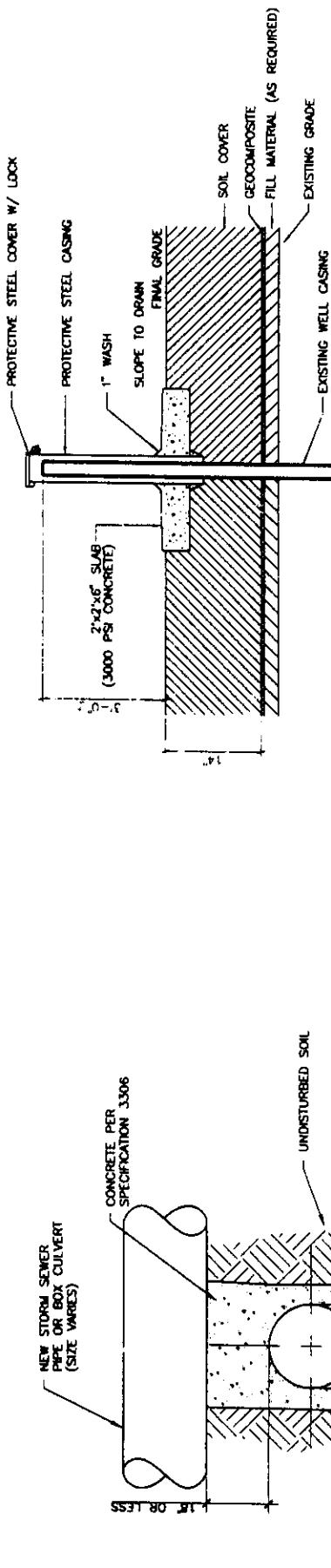
112 113

MATCHLINE SEE SHEET G-4



**NOTES:**

1. INSTALL CONCRETE SLAB AROUND ALL MONITORING WELLS, AS DIRECTED BY THE OWNERS REPRESENTATIVE.
2. REMOVE AND ADJUST EXISTING PROTECTIVE WELL BOLLARDS AS DIRECTED BY THE OWNERS REPRESENTATIVE.



**CONCRETE ENCASEMENT DETAIL**

**TYPICAL MONITORING WELL MODIFICATION DETAIL**

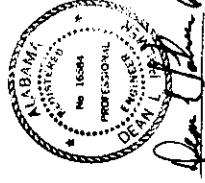
**SOLUTIA INC.**  
**NORTHSIDE PROPERTIES CLOSURE DESIGN**

**ANNISTON ALABAMA**

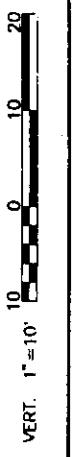
GENERAL

**STORM SEWER PROFILE & MISCELLANEOUS DETAILS**

IN CHARGE OF <u>Don H. Hause</u>	FILE NO. 2600-037-013
DESIGNED BY T.S. CHECKED BY A.C.	DATE MAY 11, 1998
DRAWN BY K.F./A.M.	DRAWN BY K.F./A.M.



THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INCLUSIONS IN THE STATED SCALE MAY BE INTRODUCED WHEN DIMENSIONS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE AND IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.



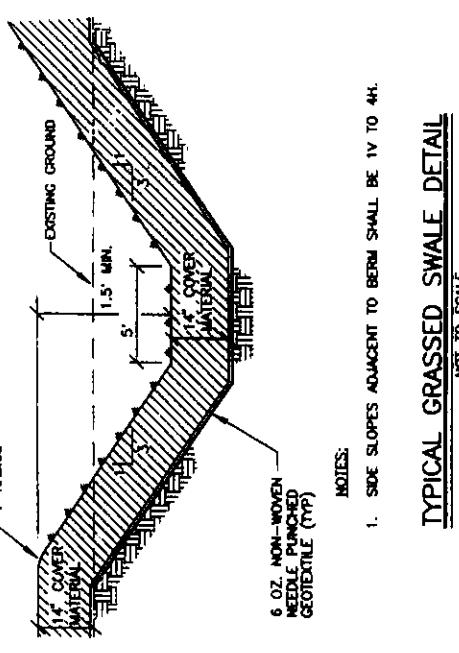
**SOLUTIA INC.**  
**NORTHSIDE PROPERTIES CLOSURE DESIGN**

**ANNISTON ALABAMA**

GENERAL

**STORM SEWER PROFILE & MISCELLANEOUS DETAILS**

IN CHARGE OF <u>Don H. Hause</u>	FILE NO. 2600-037-013
DESIGNED BY T.S. CHECKED BY A.C.	DATE MAY 11, 1998
DRAWN BY K.F./A.M.	DRAWN BY K.F./A.M.



**NOTES:**

1. REINFORCED STEEL CONFORMS TO LATEST ASTM A165 SPECIFICATION  
SE-95  
ASTM A96-A615  
GRADE 60-80 KSI
2. CONCRETE COMPRESSIVE STRENGTH  
4000 PSI MINIMUM
3. DESIGN SPECIFICATIONS CONFORM TO LATEST ASTM C300-91 SPEC. FOR PRECAST REINFORCED CONCRETE.

**SPECIFICATIONS**

CONCRETE  
ENTRAINED AIR  
STEEL  
DESIGN LOADING

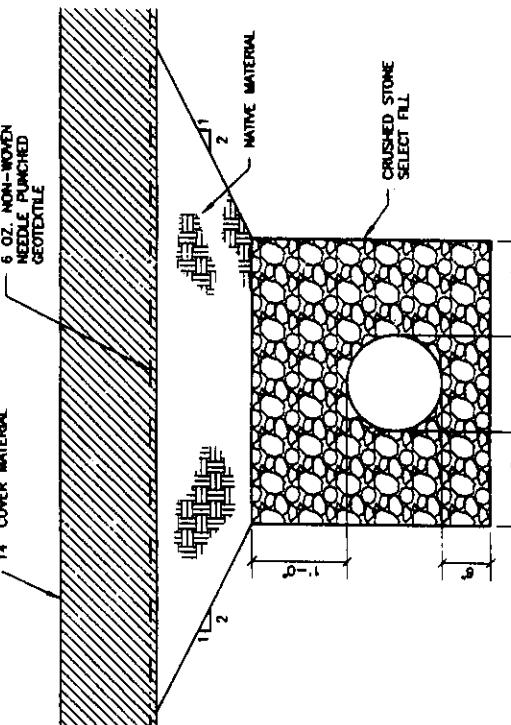
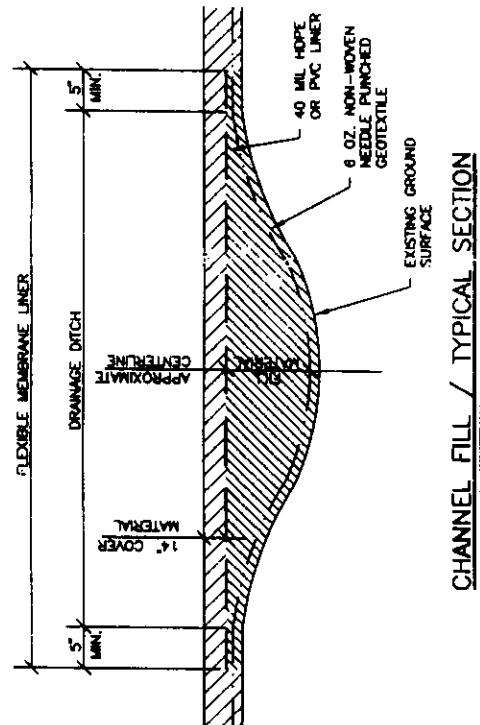
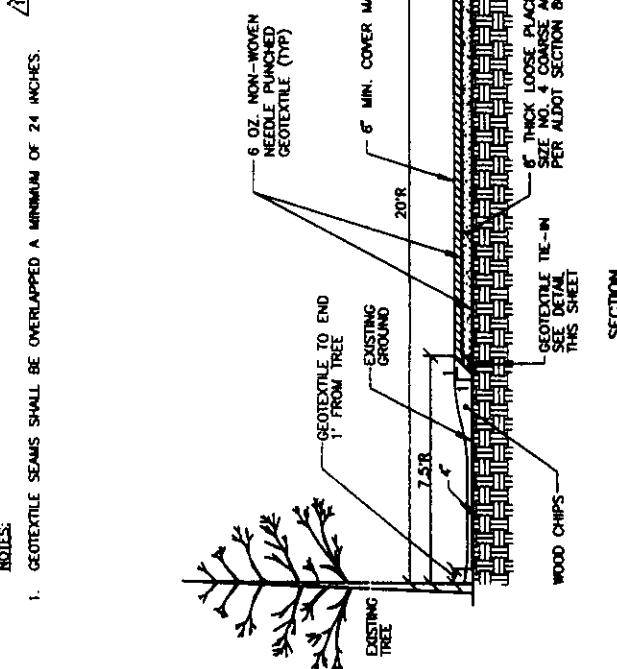
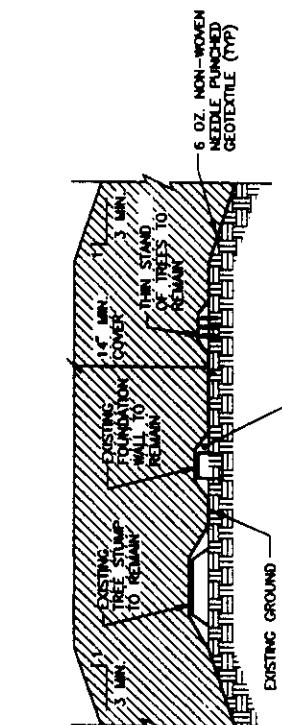
ASHTO HS-20-44  
WITH 50% IMPACT AND  
EQUIVALENT SON PRESSURE  
OF 130 (PSF). FLATATION  
FORCES NOT ACCOUNTED FOR

3. DESIGN SPECIFICATIONS CONFORM TO LATEST ASTM C300-91 SPEC. FOR PRECAST REINFORCED CONCRETE.

**NOTES:**

1. REINFORCED STEEL CONFORMS TO LATEST ASTM A165 SPECIFICATION  
SE-95  
ASTM A96-A615  
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2. CONCRETE COMPRESSIVE STRENGTH  
4000 PSI MINIMUM
3. DESIGN SPECIFICATIONS CONFORM TO LATEST ASTM C300-91 SPEC. FOR PRECAST REINFORCED CONCRETE.

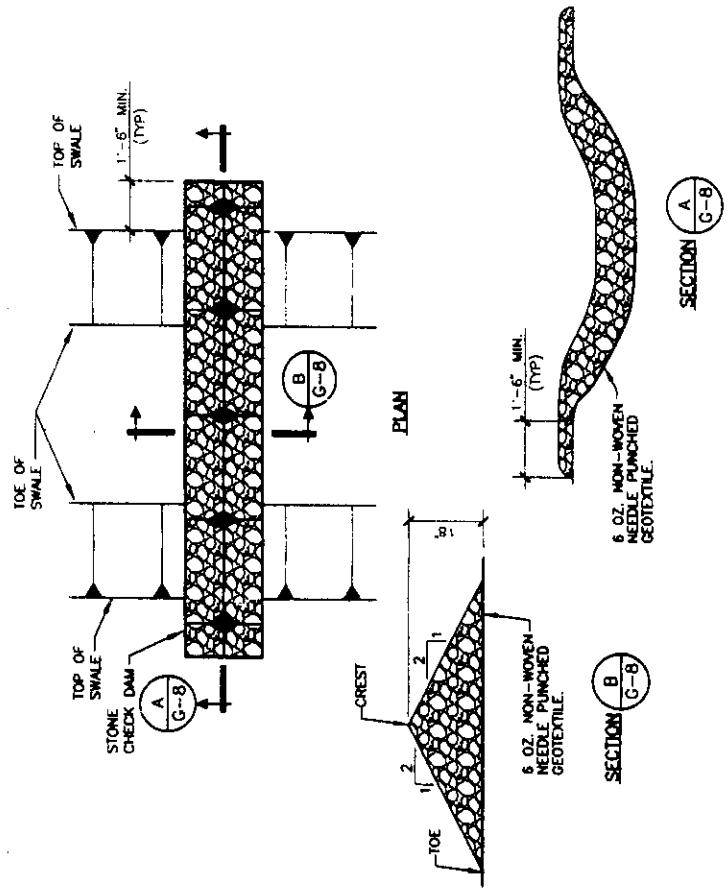
**TYPICAL COVER MATERIAL & GEOTEXTILE TIE-IN DETAIL**  
NOT TO SCALE



**MISCELLANEOUS DETAILS**

IN CHARGE OF <i>Alan L. Miller</i>	FILE NO. 2600.037-011
DESIGNED BY T.S. CHECKED BY A.C. DATE MAY 11, 1998	DRAWN BY M.R./MA
	G-7





CHECK DAM DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES.
2. GRADES AND LOCATIONS SHOWN IN THE PLAN.
3. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
4. EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
5. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.

2	6/25/98	REVISED PER ADDENDUM NO. 2
1	5/11/98	REVISED PER ADDENDUM NO. 1
0	4/13/98	ISSUED FOR CONSTRUCTION
INIT.	DATE	REVISION

NOT TO SCALE

SOLUTIA INC.
NORTHSIDE PROPERTIES CLOSURE DESIGN
ANNISTON ALABAMA

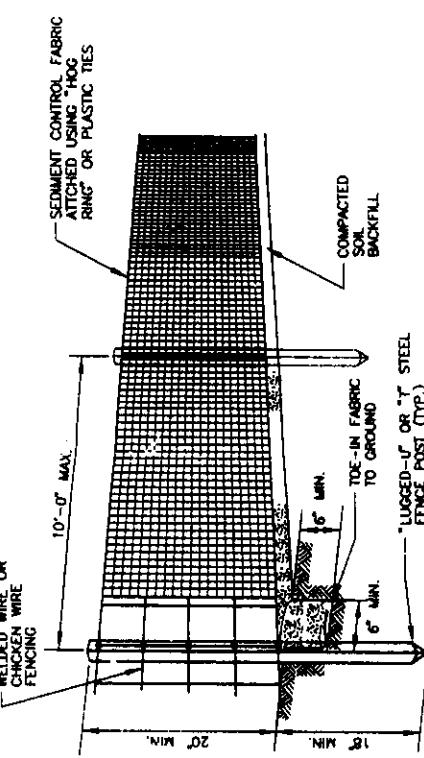
GENERAL

MISCELLANEOUS DETAILS

IN CHARGE OF <u>John</u>	FILE NO. 2600.037-012
DESIGNED BY <u>AIC</u>	DATE MAY 11, 1998

DRAWN BY KFR/MAA

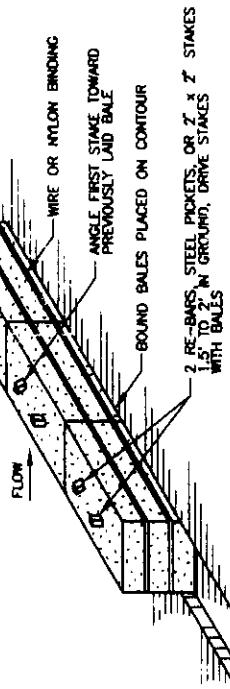
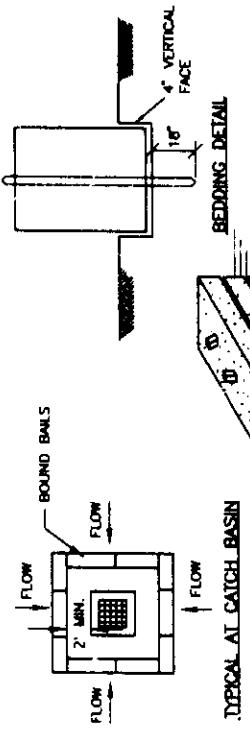
DRAINED BY John



SILT FENCE DETAIL

NOT TO SCALE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO PEACE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MIDDLE SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ARE JOINED EACH OTHER, THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AS CLOSELY AS POSSIBLE.

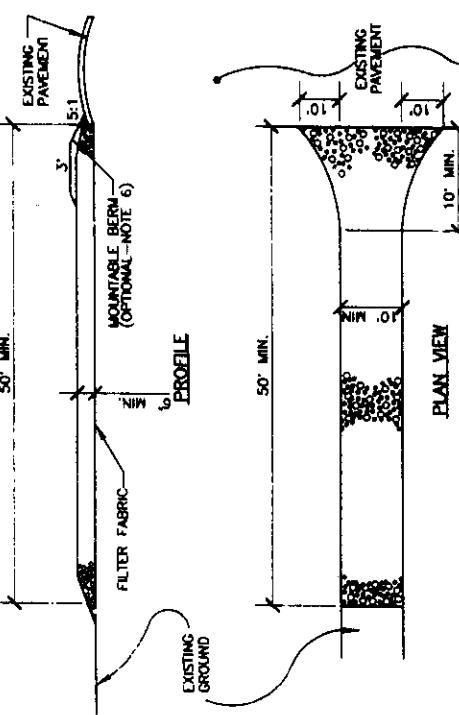


ANCHORING DETAILS

STRAW BALE DIKE DETAIL

NOT TO SCALE

1. BALES SHALL BE PLACED PRIOR TO CONSTRUCTION AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE SECURELY ANCHORED IN THE SOIL A MINIMUM OF 4 INCHES AND PLACED SO THE ENDINGS ARE HORIZONTAL.
3. BALES SHALL BE DRIVEN THROUGH THE BALE, THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAD BALE AT AN ANGLE TO FORCE THE THE BALES TOGETHER.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
5. UPON COMPLETION OF CONSTRUCTION AND STABILIZATION THE CONTRACTOR SHALL REMOVE ALL SURFACE WATER FLOWING OR DROPPED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DROPPED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY WHICH MAY REQUIRE MAINTENANCE, A MOBILEABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION OF PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEARED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. THE CONTRACTOR IS NOTIFIED THAT IN WET WEATHER, OR MUDDY CONDITIONS, WASHING VEHICLE TIRES IS MANDATORY.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

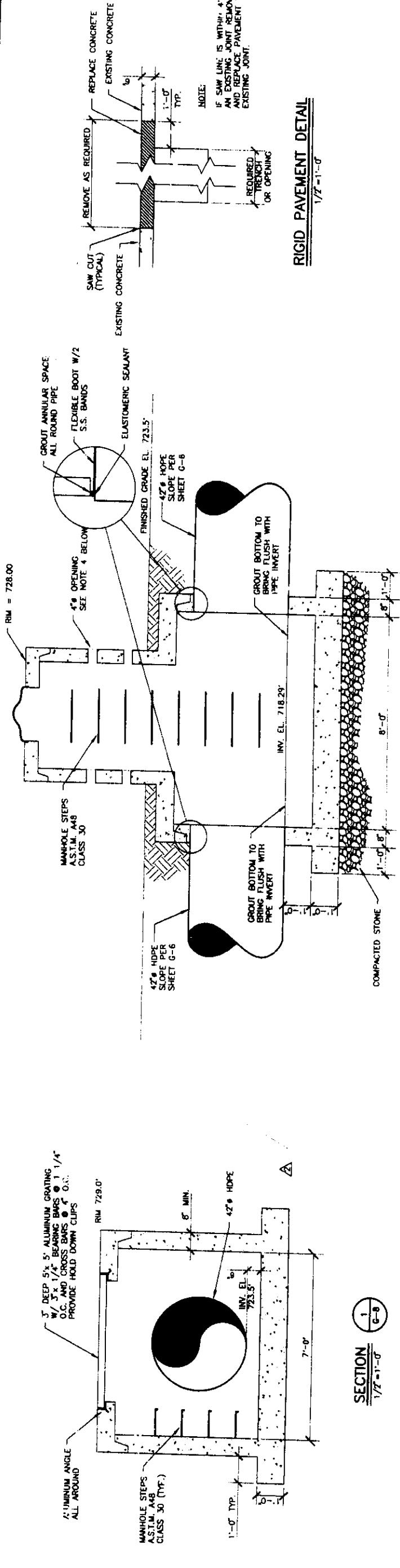


STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH AS REQUIRED, BUT NOT LESS THAN 50 FEET
3. THICKNESS - NOT LESS THAN SIX(6) INCHES
4. WIDTH-TWELVE(12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. IF PIPING IS IMPRactical, A MOBILEABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DROPPED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY WHICH MAY REQUIRE MAINTENANCE, A MOBILEABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION OF PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEARED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. THE CONTRACTOR IS NOTIFIED THAT IN WET WEATHER, OR MUDDY CONDITIONS, WASHING VEHICLE TIRES IS MANDATORY.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



SECTION 1 G-6

SECTION 2 G-6

RIGID PAVEMENT DETAIL

REPLACE CONCRETE  
IF SAW LINE IS WITHIN 4' OF  
AN EXISTING JOINT REMOVE  
AND REPLACE PAVEMENT TO  
EXISTING CONCRETE CRSE.

REPLACE CONCRETE  
IF SAW CUT (TYPICAL)  
IS WITHIN 4' OF  
AN EXISTING JOINT REMOVE  
AND REPLACE PAVEMENT TO  
EXISTING CONCRETE CRSE.

FLEXIBLE PAVEMENT DETAIL

2	6/25/98	REVISED PIER ADDENDUM NO. 2
1	5/11/98	REVISED PER ADDENDUM NO. 1
0	4/13/98	ISSUED FOR CONSTRUCTION
		INITIAL DATE

SCALE AS SHOWN

PERFORATED SECONDARY INLET STRUCTURE

- SPECIFICATIONS**
- CONCRETE 4000 PSI ● 28 DAYS  
ENTRAINED AIR 5%–15%  
STEEL ASTM A36–A615  
GRADE 60–60 KSI  
DESIGN LOADING ASHTO HS–20–44  
WITH 30% IMPACT AND  
EQUIVALENT SOIL PRESSURE  
OF 130 (PSF) FLOATATION  
FORCES NOT ACCOUNTED FOR  
TO LATEST ASTM C390–91 SPEC. FOR PRECAST  
REINFORCED CONCRETE.
- NOTES:
1. REINFORCED STEEL CONFORMS TO LATEST ASTM A36 SPECIFICATION  
0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) IN BASE SLAB.
  2. CONCRETE COMPRESSIVE STRENGTH 4000 PSI MINIMUM.
  3. DESIGN SPECIFICATIONS CONFORM TO LATEST ASTM C390–91 SPEC. FOR PRECAST REINFORCED CONCRETE.
  4. PROVIDE 4" FACTORY CAST OPENINGS AT 60° SET 12" VERTICALLY CENTER TO CENTER OFFSET 30°.

**NORTHSIDE PROPERTIES CLOSURE DESIGN**  
**ANNISTON ALABAMA**

GENERAL

**MISCELLANEOUS DETAILS**

IN CHARGE OF Allen Miller

FILE NO. 2600.037–014

DATE

INCHES  
PROFESSIONAL  
No. 15-34  
DECEMBER 1998  
ALABAMA  
LICENSED ENGINEERS  
ASSOCIATION  
G-9

LOT DATE: 5/11/98  
DWG PATH: E:\DWG\PROJECTS\2600037\014.DWG  
DWG DATE: 5/11/98

SPECIFICATIONS:

CONCRETE WORK SHALL FOLLOW ACI 301 CONCRETE REINFORCING AND ACCESSORIES SHALL FOLLOW ACI 315.

CONCRETE 4,000 PSI • 28 DAYS

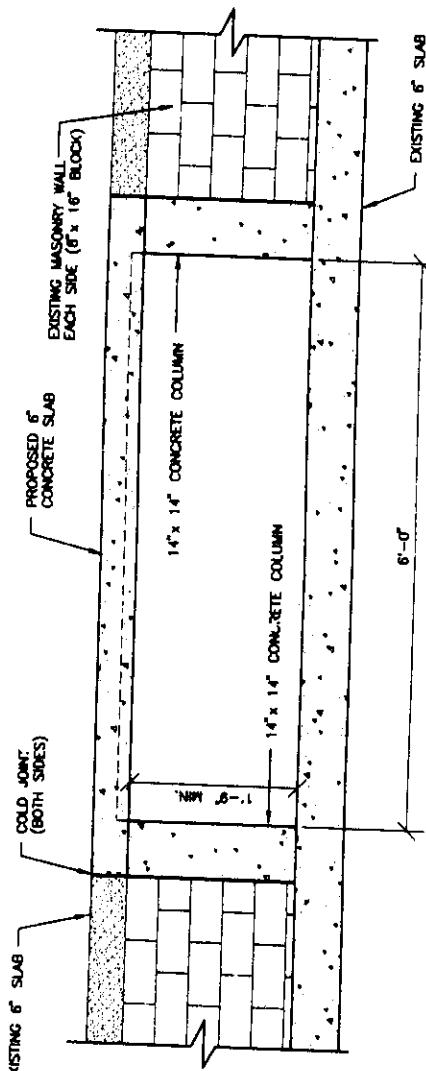
ENTRAINED AIR 5% - 7%

STEEL - DEFORMED BARS ASTM A 615, GRADE 60

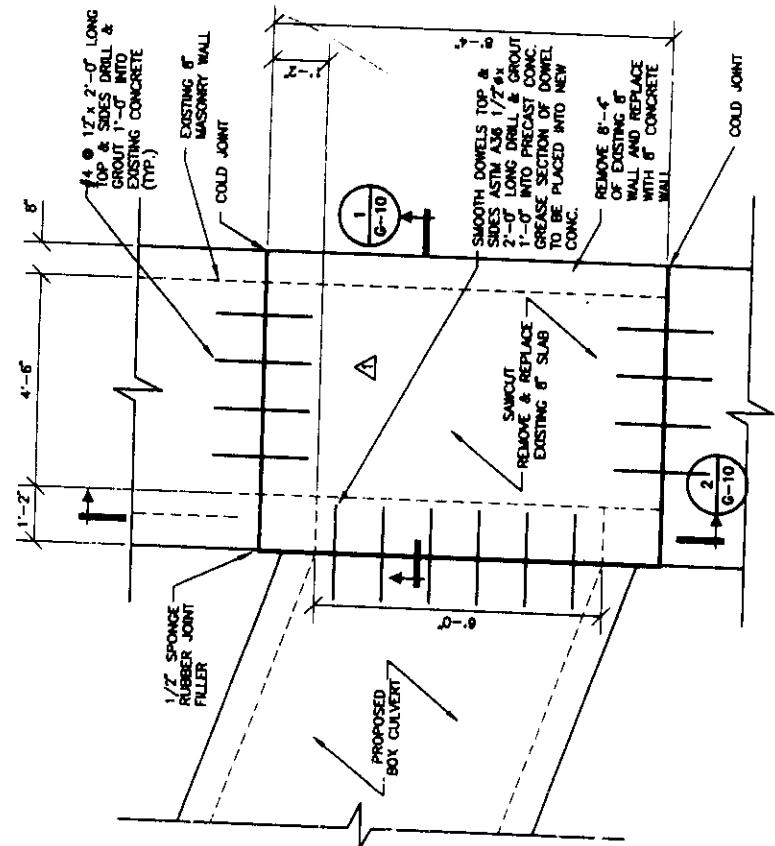
STEEL - WELDED WIRE MESH ANSI/ASTM A 185

NOTES:

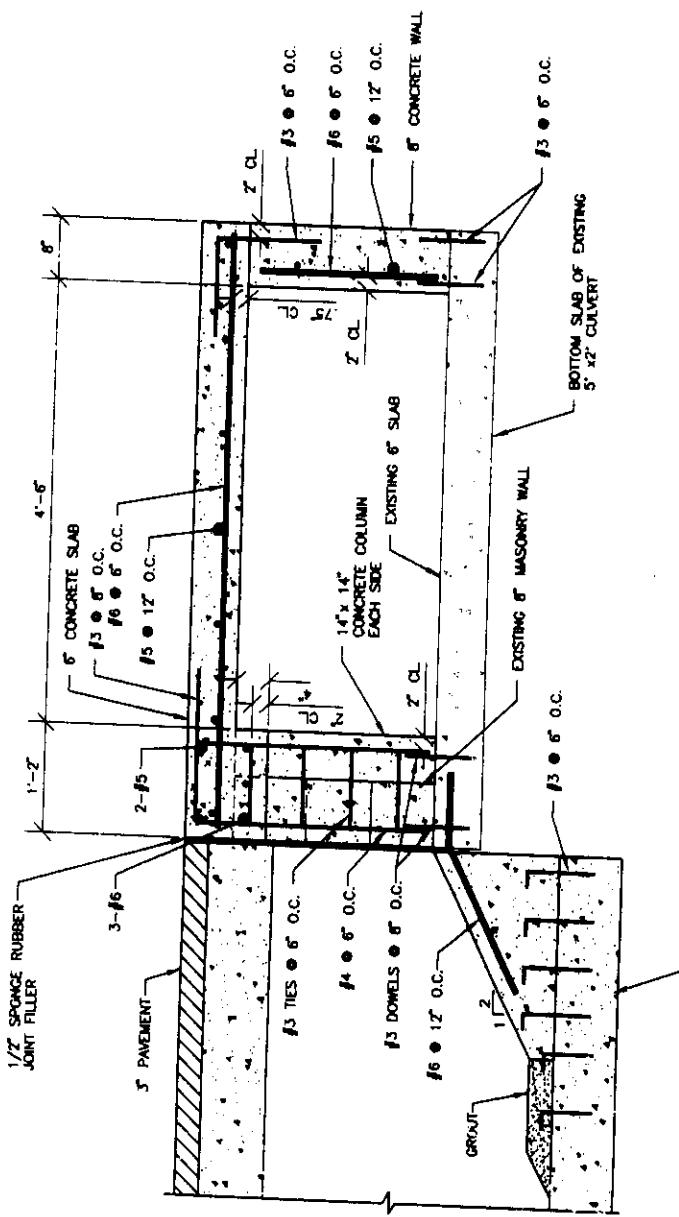
1. CHAMFER EXPOSED CORNERS OF CONCRETE 3/4 INCH.
2. CAST IN PLACE CONCRETE COVER FOR REINFORCING UNLESS OTHERWISE NOTED (U.O.N.) ON DETAILS SMALL CONFORM TO THE FOLLOWING:
  - CONCRETE AGAINST EARTH 3 INCHES
  - CONCRETE TANKS 2 INCHES
  - CONCRETE EXPOSED TO EARTH OR WEATHER #6 BAR & LARGER 2 INCHES
  - #5 BAR & SMALLER 1 1/2 INCHES
  - CONCRETE NOT EXPOSED TO EARTH OR WEATHER BEAMS, COLUMNS 2 INCHES
  - SLABS, WALL, & JOISTS (#11 BAR & SMALLER) 1 1/2 INCHES
  - HOLD REINFORCING BARS AT CORRECT DISTANCE FROM FORMS AND EARTH WITH CHAIRS, SPACERS, AND TIES. (PLASTIC TIPS LEGS AT EXPOSED CONCRETE)
  - 4. IN ANY APPROVED CONSTRUCTION JOINT PROVIDE A SHEAR KEY 1 1/2 INCHES DEEP x 1/3 THE JOINT WIDTH. ALSO PROVIDE A TENSION CLASS "B" LAP OF REINFORCING.
  - 5. SLAB, BEAM, AND JOIST TOP REINFORCING CONTINUOUS OVER A SUPPORT SHALL EXTEND TO THE 1/3 POINT OF THE CLEAR SPAN. SLAB, BEAM, AND JOIST TOP REINFORCING AT A DISCONTINUOUS END SHALL TERMINATE IN A STANDARD 90 DEGREE HOOK INTO SUPPORTING BEAMS AND WALLS.
  - 6. CONCRETE BEAMS SHALL BE MONOLITHIC WITH SLABS.
  - 7. MINIMUM DOWELS FROM CONCRETE WALLS TO TOP OF CONCRETE SLAB SHALL BE: U.O.N.
  - #4 • 16 INCH IN THE DIRECTION OF MAIN SLAB REINFORCING.
  - #3 • 16 INCH IN THE DIRECTION OF TEMPERATURE REINFORCING.
  - EXTEND TO DOVELS TO THE 1/4 POINT OF SLAB SPAN.
  - 11. WHERE MAIN SLAB REINFORCING IS PARALLEL TO A BEAM, ADD 1-#3 x 6 FOOT AT 18 INCH O.C. OVER BEAM.
  - 12. GROUT FOR DOWELS EUCO NON-SHRINK GROUT AS MANUFACTURED BY EUCLID CHEMICAL COMPANY OR EQUAL.



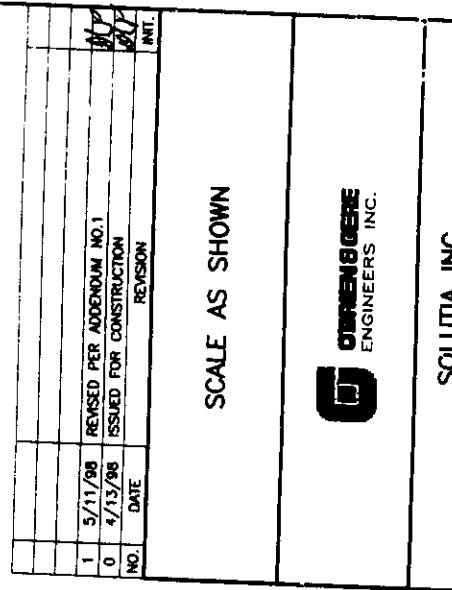
SECTION  
2  
G-10



BOX CULVERT JUNCTION PLAN



SECTION  
1  
G-10



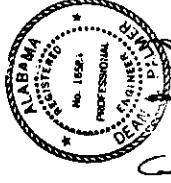
SECTION  
1  
G-10

SOLUTIA INC.  
NORTHSIDE PROPERTIES CLOSURE DESIGN  
ANNISTON ALABAMA

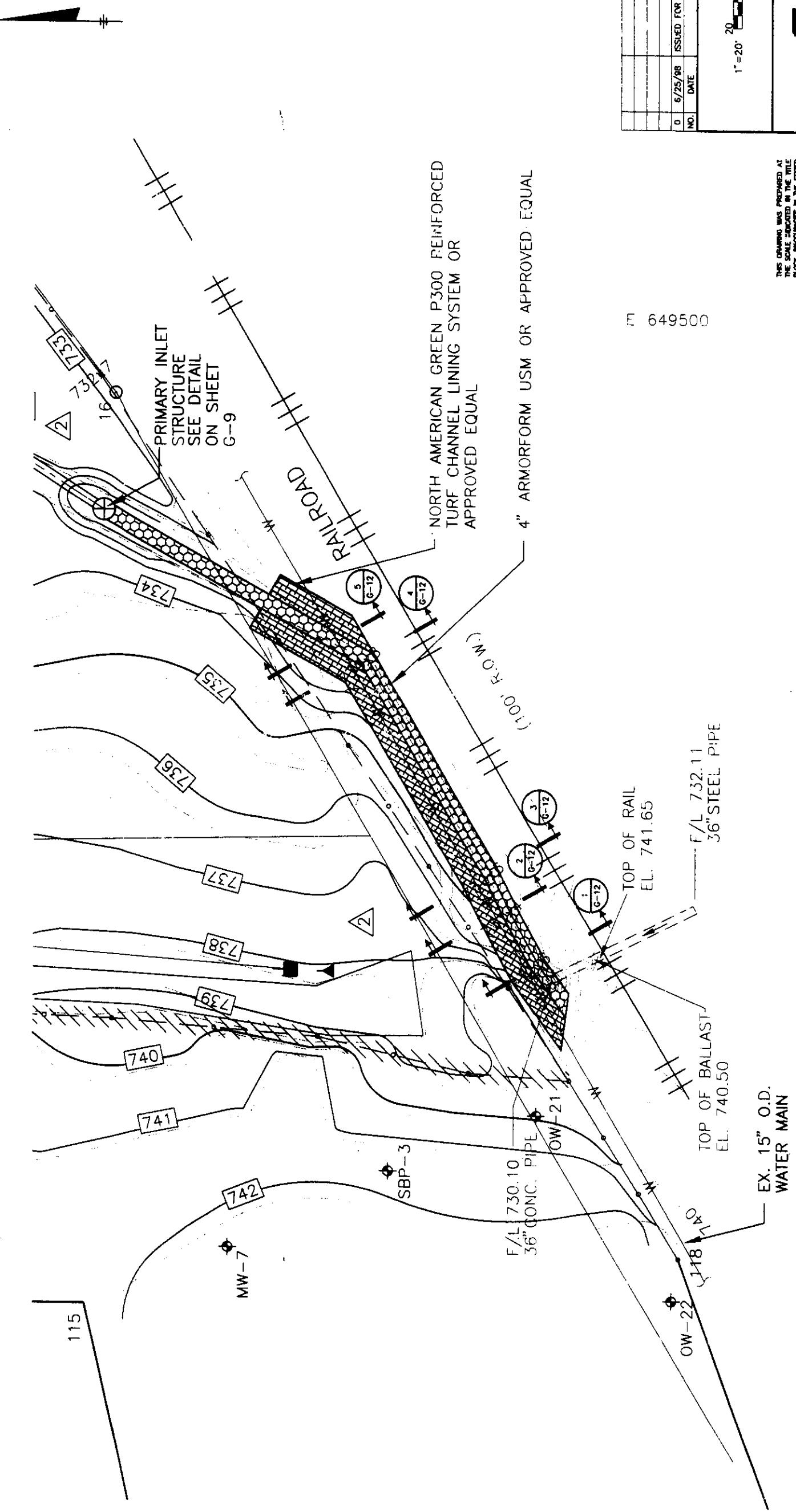
GENERAL

MISCELLANEOUS DETAILS

IT IS A VIOLATION OF LAW FOR  
ANY PERSON, UNLESS ACTING UNDER  
THE DIRECTION OF A LICENSED ENGI-  
NEER, TO ALTER THIS COPIED  
DRAWING.



IN CHARGE OF Dean Bell FILE NO.  
DESIGNED BY SUS 2600.037-016  
CHECKED BY AJC DATE  
G-10



THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INCONCISES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REDUCED OR ANY DRAWINGS ARE ENLARGED BY ANY MEANS. USE THE REDUCING SCALE IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

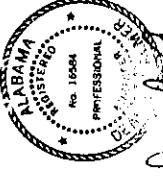
**NORTHSIDE PROPERTIES CLOSURE DESIGN  
ANNISTON ALABAMA**

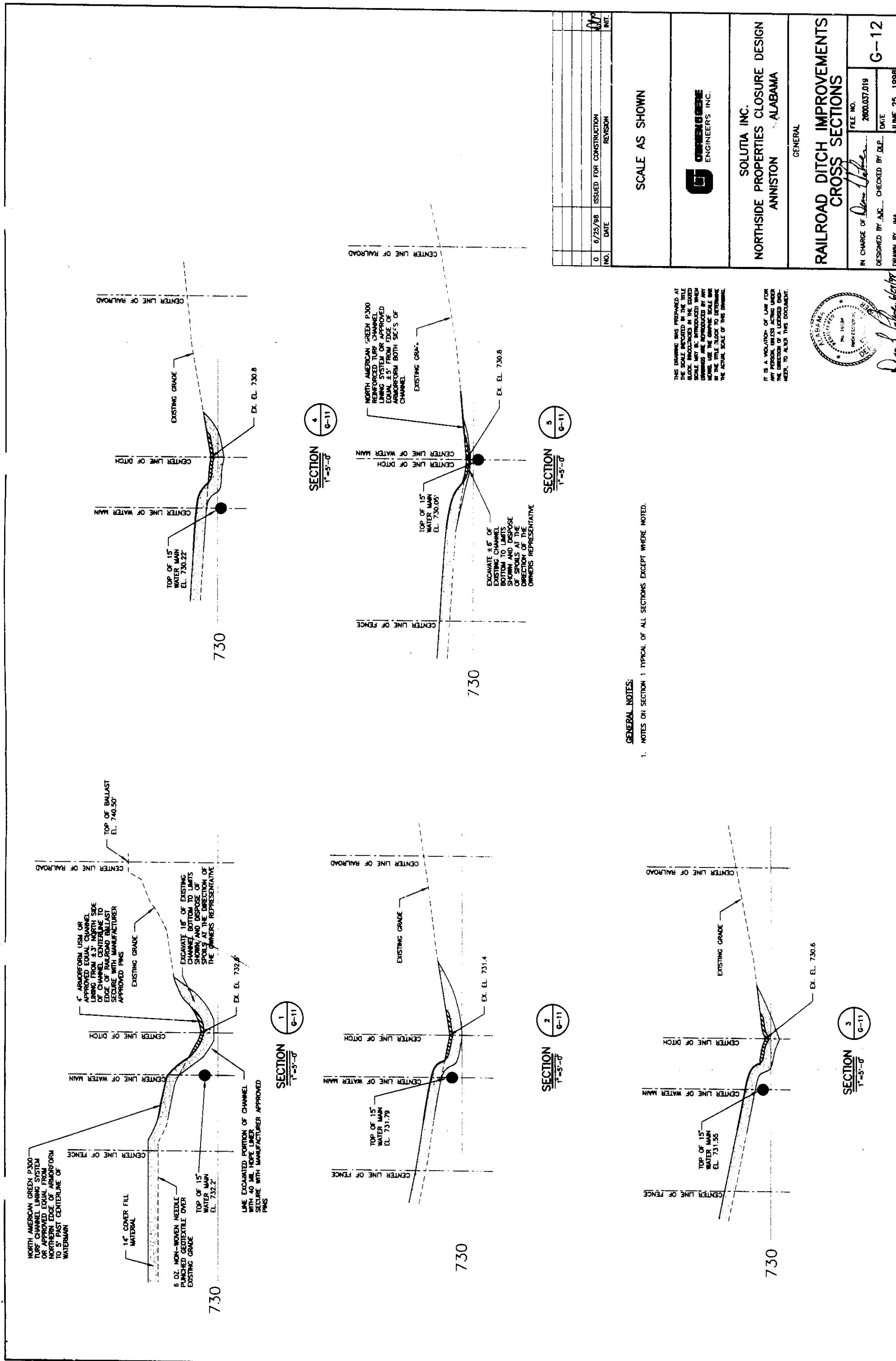
卷之三

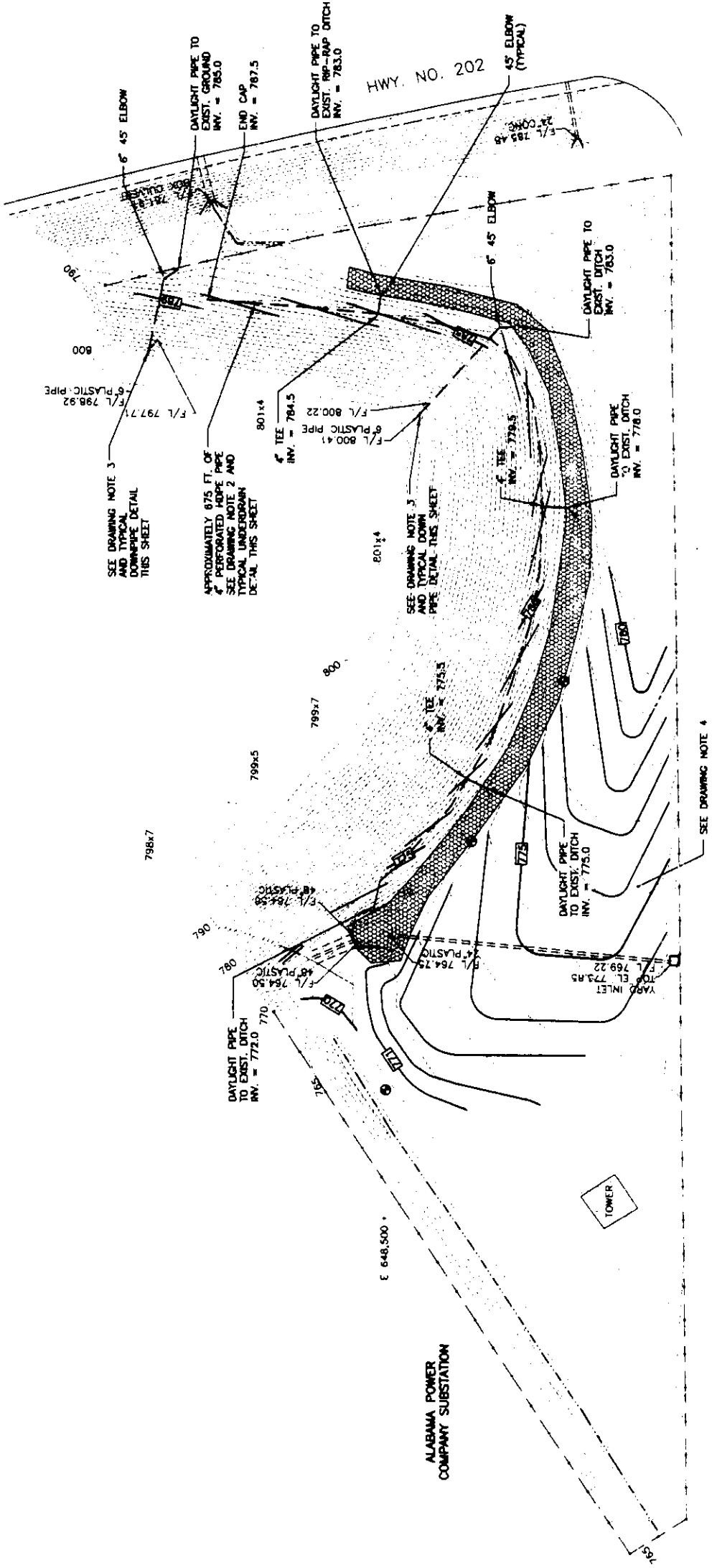
## RAILROAD DITCH IMPROVEMENTS

IN CHARGE OF <i>Allen C. Hale</i>	FILE NO. 2860.037-020
DESIGNED BY AAC	CHECKED BY DLP
DATE	

**G-11**







DRAWING NOTES:

1. THE CONTRACTOR SHALL TAKE EXTREME CAUTION WHEN DIGGING, WORKING OR INSTALLING PROPOSED MATERIALS ON THE LANDFILL. THE LANDFILL COVER IS ASSUMED TO BE PER THE DETAIL ON THIS SHEET. ANY DAMAGE TO THE GEOCOMPOSITE, GEOTEXTILE OR GEOMEMBRANE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO OWNER.
2. CONTRACTOR SHALL REMOVE 6" OF EXISTING SOIL PRIOR TO INSTALLING 4" PERFORATED HOSE PIPE. SEE TYPICAL UNDERDRAIN DETAIL THIS SHEET.
3. CONTRACTOR SHALL REMOVE AND DISPOSED OFF SITE ANY REMAINING PIECES OF EXISTING 6" PLASTIC PIPE AND INSTALL NEW 6" HOSE.
4. CONTRACTOR SHALL THOROUGHLY DISC EXISTING GROUND WHERE NEW FILL IS PROPOSED TO BE PLACED.
5. ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED PER SPECIFICATION 02503 UNLESS SHOWN OTHERWISE.

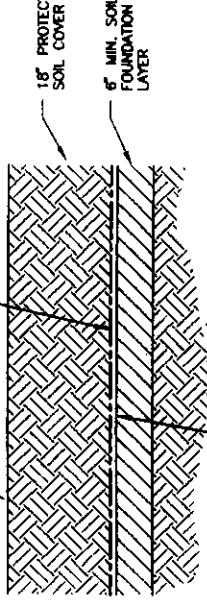


**SOUTHERN  
SOLUTIA INC.**  
**WESTSIDE PROPERTIES CLOSURE DESIGN**  
**ANNISTON ALABAMA**

GENCO II

D-1-D

COVER SYSTEM DETAIL TAKEN FROM A DRAWING PREPARED BY GOLDER ASSOCIATES, TITLED TYPICAL CROSS SECTIONS AND COVER SYSTEM DETAILS, DATED 4/95, LAST REVISED 10/95 AND IS ASSUMED TO HAVE BEEN INSTALLED IN ACCORDANCE WITH THE ABOVE DETAIL ACTUAL CONDITIONS MAY VARY.

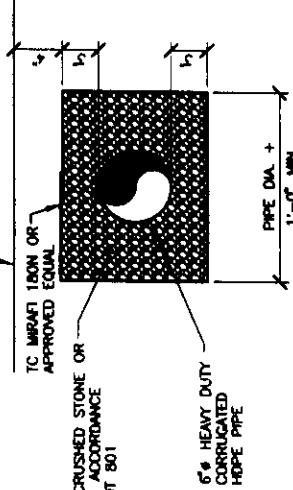


THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INCLUSIONS IN THE STATED SCALE MAY BE INTRODUCED WHEN US DIMENSIONS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE LINE IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PHYSICIAN, TO ATTEMPT THE DOSEMENT



ESTETING GROUND /

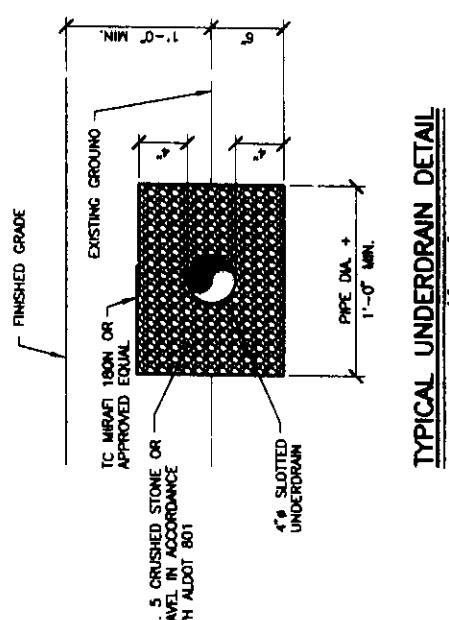


### TYPICAL DOWNPIPE DETAIL

PRIVATE

- DRILL**

  1. CONTRACTOR MAY ENCOUNTER DESTROY GEOCOMPOSITE, GEOTEXTILE OR GENTEMERINE AND SHALL TAKE EXTREME CAUTION WHEN INSTALLING UNDERDRAIN PIPING.
  1. COVER SYSTEM DETAIL TAKEN FROM A DRAWING PREPARED BY GOLDER ASSOCIATES, TITLED "TYPICAL CROSS SECTIONS AND COVER SYSTEM DETAILS", DATED 4/95, LAST REVISED 10/95 AND IS ASSUMED TO HAVE BEEN INSTALLED IN ACCORDANCE WITH THE ABOVE DETAIL ACTUAL CONDITIONS.



## TYPICAL UNDERDRAIN DETAIL

**NOTE:** CONTRACTOR MAY ENCOUNTER EXISTING GEOCOMPOSITE, GEOTEXTILE, OR GEOMEMBRANE AND SHALL TAKE EXTREME CAUTION WHEN INSTALLING UNDERDRAIN PIPING.

one.

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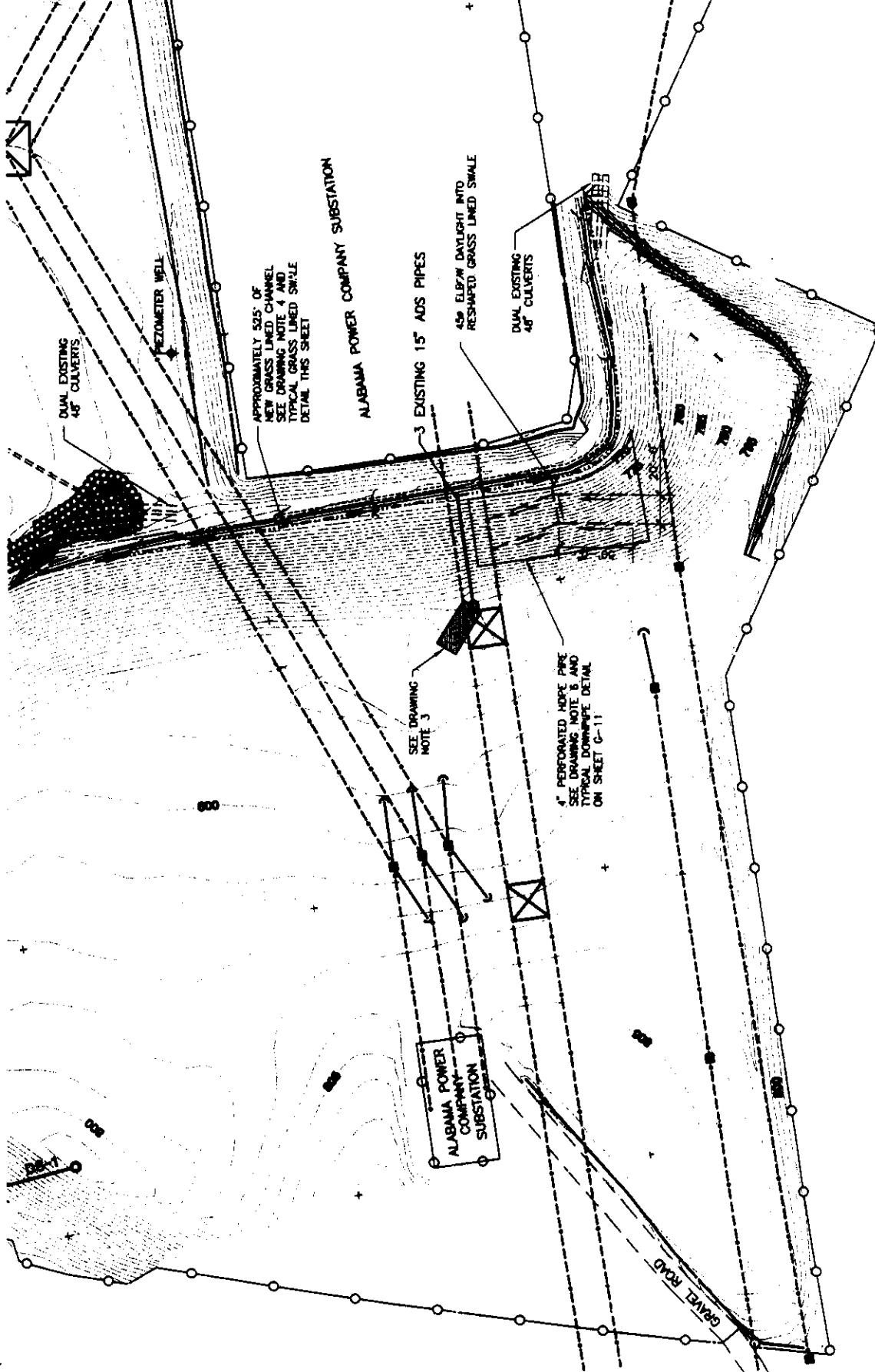
IN CHARGE OF	<u>Dean Fisher</u>	FILE NO.	2600-037-015
DESIGNED BY	LTS.	CHECKED BY	AMC

A circular stamp with a decorative border containing the word "PROFESSIONAL". In the center, it reads "DEAN L. FISHER".

86/11

## DRAWING NOTES:

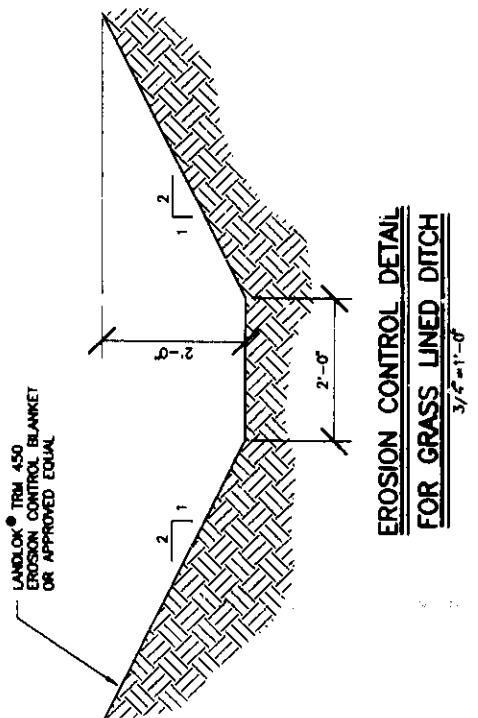
- EXISTING SITE INFORMATION WAS TAKEN FROM A DRAWING ENTITLED GOLDER ASSOCIATES, DATED 3/97.
- THE CONTRACTOR SHALL TAKE EXTREME CAUTION WHEN DIGGING WORKING COVER OR INSTALLING PROPOSED MATERIALS ON THE LANDFILL. THE LANDFILL COVER IS ASSUMED TO BE PER THE DETAIL ON SHEET C-13. ANY DAMAGE TO THE GEOCOMPOSITE, GEOTEXTILE OR GEOMEMBRANE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO OWNER.
- THE CONTRACTOR SHALL THOROUGHLY DSC AREA TO DEPTH NO MORE THAN 4' WHERE EROSION IS OCCURRING AND REGRADE AREA TO RESTORE EXISTING CONTOURS. THE AREA IS APPROXIMATELY 800 SF AND ITS EXACT LOCATION SHALL BE VERIFIED IN THE FIELD. UPON COMPLETION OF REGRADING ACTIVITIES, THE CONTRACTOR SHALL SEED THE DISTURBED AREA IN ACCORDANCE WITH SPECIFICATION 02503.
- THE CONTRACTOR SHALL FIRST REMOVE ANY DISTURBED RIP-RAP IN THE SWALE AND DISPOSE OF IN A SITE TO BE DETERMINED BY THE OWNER. THE CONTRACTOR SHALL THEN RESHAPE THE CHANNEL TO THE CROSS-SECTION DIMENSIONS SHOWN ON THE TYPICAL GRASS LINED SWALE DETAIL ON THIS SHEET. BACKFILLING ANY ERODED AREAS OUTSIDE THE LIMITS OF THE NEW SWALE.
- THE CONTRACTOR SHALL BE AWARE THE OWNER IS PERFORMING SOME REMEDIAL WORK IN THIS AREA. THE (1) EXISTING 15" DIA. DRAINS WILL BE CONNECTED TO AN EXISTING 48" CULVERT, AND ALL CONCRETE CASINGS AND EMERGENCY DÉSPATATORS WILL BE REMOVED UNDER A SEPARATE CONTRACT.
- THE CONTRACTOR SHALL REMOVE EXISTING COVER MATERIAL, EXPOSING GEOTEXTILE FABRIC IN AREA SHOWN (APPROX. 5000 SF). THE CONTRACTOR SHALL INSTALL PERFORATED HOSE PER THE TYPICAL SLOPE PIPE DETAIL ON THIS SHEET. THE CONTRACTOR SHALL THEN RESTORE EXISTING COVER MATERIAL MAKING SURE TO BLEND INTO SURROUNDING AREA NOT DISTURBED. ALL DISTURBED AREAS SHALL BE SEEDED PER SPECIFICATION 02503.



		247	INT.



THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. MODIFICATIONS IN THE DRAWING SCALE MAY BE INTRODUCED WHEN DIMENSIONS ARE INDICATED BY NUMBER. USE THE GRAPHIC SCALE INDICATED IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.



NOTES:  
SWALE SHALL BE SHAPED TO THE DIMENSIONS ABOVE AND SEADED PER SPECIFICATION 02503 PRIOR TO PLACEMENT OF TURF REINFORCEMENT MAT (TRM) 450 AS MANUFACTURED BY SYNTHERIC INDUSTRIES OR APPROVED EQUAL.

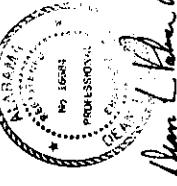
SOLUTIA INC.  
WESTSIDE PROPERTIES CLOSURE DESIGN  
ANNISTON ALABAMA

GENERAL

PLAN & DETAILS  
IN CHARGE OF *John L. Palmer*

FILE NO. 2600-037-018  
DATE MAY 11, 1998

DESIGNED BY <i>T.S.</i>	CHECKED BY <i>A.C.</i>	G-14
DRAWN BY <i>Golder/MA</i>	DRAWN BY <i>Golder/MA</i>	DRAWN BY <i>Golder/MA</i>



ALABAMA  
PROFESSIONAL  
ENGINEERING  
REGISTRATION  
BOARD  
NO. 16485

John L. Palmer 5/11/98

PLOT DATE: 5/11/98

- DRAWING NOTES:
1. ABANDON AND PLUG CLOSING 24 INCH AND 36 INCH CMPS AND INLET STRUCTURES AS APPLICABLE. REMOVE INLET STRUCTURE TOPS AND DISPOSE PER OWNERS REPRESENTATIVE'S DIRECTION. PIPE ENDS SHALL BE BULKHEADED AND FILLED WITH CONCRETE PER OWNER'S REPRESENTATIVE'S DIRECTION.
  2. NOT IN CONTRACT.
  3. COVER COMPLETED IN THIS AREA UNDER THE DCC PROJECT.
  4. FEATHER OUT COVER SOILS TO MEET EXISTING GRADES AT BONNTON STREET AND PROPERTY BOUNDARIES. SEE TYPICAL COVER MATERIAL AND GEOTEXTILE RE-IN DETAIL ON SHEET G-7.
  5. AREA CAPPED WITH SOIL TO BE REMERITED PER SPECIFICATION 05503.

PT. NO.	NORTHING	EASTING	DESCRIPTOR
A	1148105.11	651285.81	LIMITS OF GRADING COORDINATES
B	1148105.11	651485.81	LIMITS OF GRADING COORDINATES
C	1147955.11	651485.81	LIMITS OF GRADING COORDINATES
D	1147955.11	651527.37	LIMITS OF GRADING COORDINATES
E	1147855.11	651485.41	LIMITS OF GRADING COORDINATES
F	1147855.48	651485.81	LIMITS OF GRADING COORDINATES
G	1147714.47	651485.81	LIMITS OF GRADING COORDINATES
H	114767.61	651352.86	LIMITS OF GRADING COORDINATES
I	114767.61	651325.81	LIMITS OF GRADING COORDINATES
J	114761.88	651325.81	LIMITS OF GRADING COORDINATES
K	114761.88	651289.69	LIMITS OF GRADING COORDINATES
L	114779.48	651289.69	LIMITS OF GRADING COORDINATES

3	5/05/98	REVISED PER ADDENDUM NO. 3
2	5/25/98	REVISED PER ADDENDUM NO. 2
1	5/11/98	REVISED PER ADDENDUM NO. 1
0	4/13/98	ISSUED FOR CONSTRUCTION
INT.	DATE	REVISION

1" = 40'



SOLUTIA INC.  
EASTSIDE PROPERTIES CLOSURE DESIGN  
ANNISTON ALABAMA

BETHEL CHURCH PROPERTY  
GRADING PLAN

GENERAL

BETHEL CHURCH PROPERTY  
GRADING PLAN

FILE NO. 2800-037-017

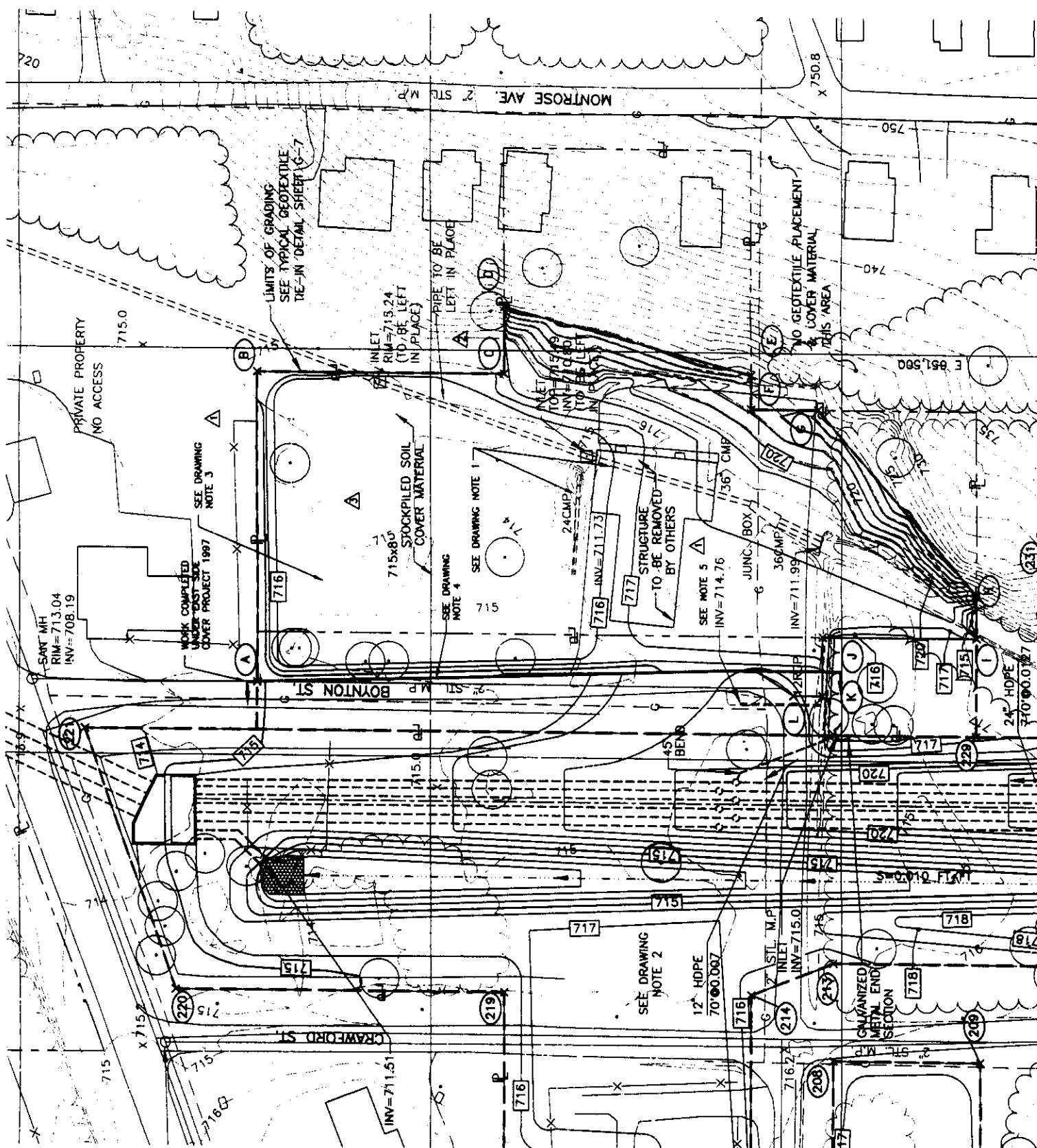
DATE 5/11/98

IN CHARGE OF Dean Miller

DESIGNED BY MS

CHECKED BY AJC

DATE 5/11/98



THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INCLUSIONS IN THE DRAWING ARE INTENDED FOR THE DIRECTOR OF A LICENSED ENGINEER TO ALTER THIS DOCUMENT.

MAILED  
RECORDED  
IN  
THE  
CITY  
CLERK'S  
OFFICE  
BY  
PROFESSIONAL  
ENGINEER  
No. 15504  
D. C. L. C. L.  
C. L. C. L.  
D. C. L. C. L.

AS - BUILT SURVEY OF COVER SOIL  
AT THE NORTHSIDE PROPERTY  
OWNED BY  
**THE SOLUTIA CORPORATION**  
AS CONSTRUCTED BY  
**O'BRIEN & GERE TECHNICAL SERVICES, INC.**

LEGEND:

- = UTILITY POLE
- = OVERHEAD UTILITIES
- = PROPERTY LINE
- = GUY WIRE
- = STREET SIGN
- = CHAIN LINK FENCE
- = LIMIT OF CONSTRUCTION
- = RIP RAP

SURVEYOR'S NOTES:

1. COORDINATE POSITIONS SHOWN HEREON ARE BASED ON GLOBAL POSITIONING SYSTEM POINTS PROVIDED BY ALMON AND ASSOCIATES OF TUSCALOOSA, ALABAMA.
2. BOUNDARY LOCATIONS SHOWN HEREON ARE PROVIDED BY ALMON AND ASSOCIATES.
3. NO UNDERGROUND UTILITIES WERE LOCATED OR SHOWN HEREON.
4. THIS SURVEY INCLUDES NO OPINION AS TO THE VALIDITY OF THE BOUNDARY SHOWN HEREON AND IS INTENDED TO DEPICT THE CONSTRUCTION ACTIVITIES COMPLETED ONLY.

BANCROFT STREET

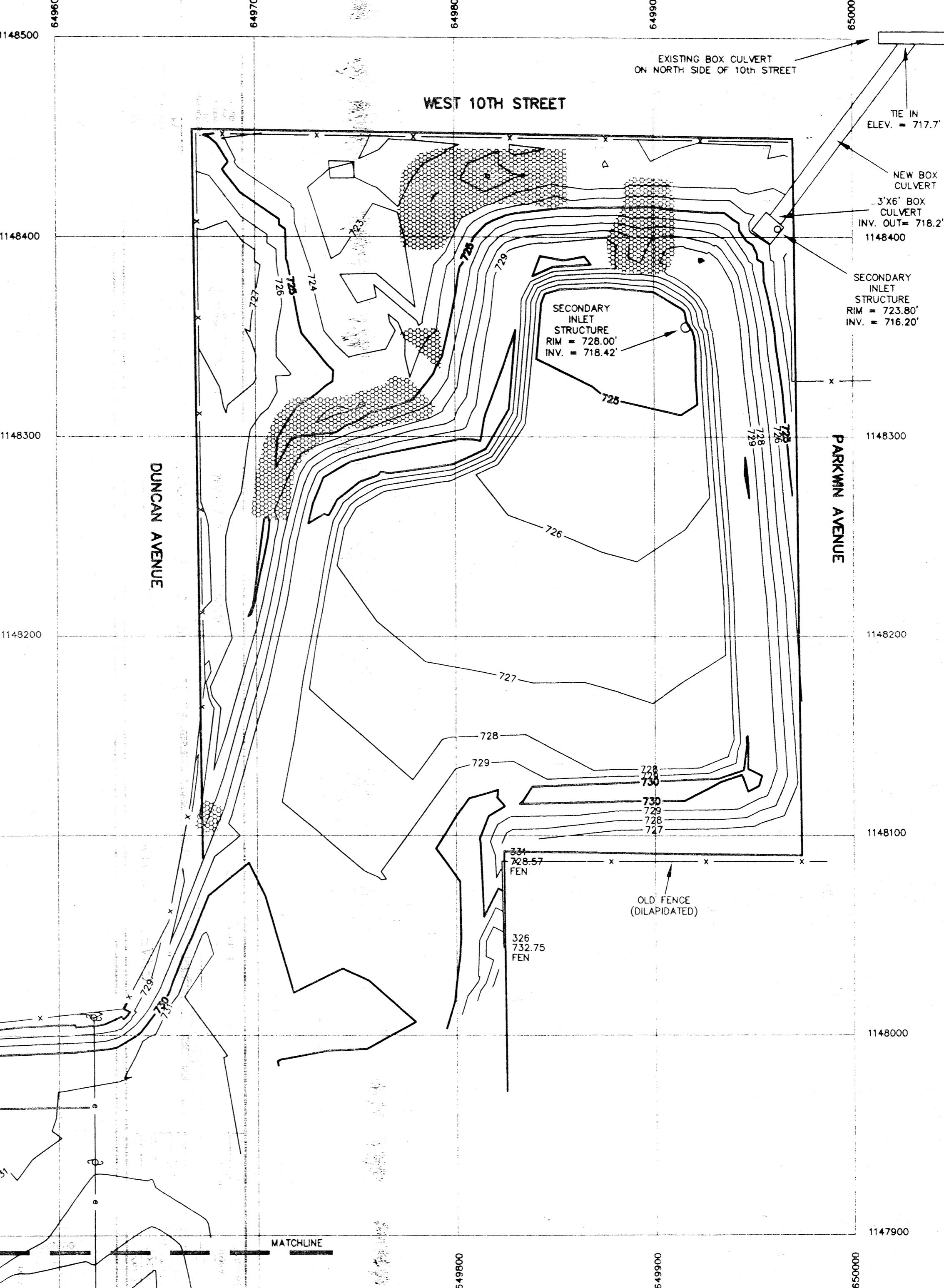
WEST 9TH STREET

12" R.C.P.  
INV. = 728.9'

649500

649400

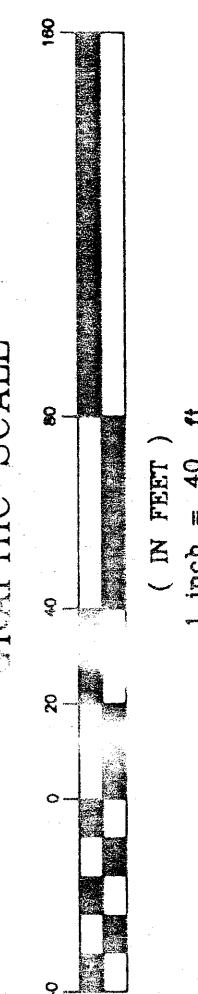
649300



ENVIRONMENTAL  
PRECISION ASSOCIATES  
INC.

ENVIRONMENTAL LAND AND CONSTRUCTION SURVEY SERVICES  
100 PECAN STREET  
P.O. BOX 514  
TROY, ALABAMA 36081  
TELE: (334) 870-0026  
FAX: (334) 870-5232  
MOBILE: (334) 443-7243  
E-Mail: 012678

AS-BUILT SURVEY  
OF  
THE NORTHSIDE PROPERTY  
NORTH OF THE RAILROAD  
ANNISTON, ALABAMA



DRAWN BY: W.H.S.  
CHECKED BY: W.H.S.  
SURVEY DATE: 12-05-98  
DRAWING DATE: 12-07-98  
FLD. BK.: ELECTRONIC  
SCALE: 1" = 40'  
DRAWING NAME: SONSAB  
98-010P

AS - BUILT SURVEY OF SOIL COVER  
AT THE NORTHSIDE PROPERTY  
OWNED BY  
**THE SOUTIA CORPORATION**  
AS CONSTRUCTED BY  
**O'BRIEN & GERE TECHNICAL SERVICES, INC.**

649000

949100

1147900

SOILS EXCAVATED FROM  
721 ZENA PARKWAY DRIVE  
1100 PINE GROVE ROAD  
1215 WEST 10th STREET  
BENEATH SOIL COVER

BANCROFT STREET

SOCIAL

732

733

734

1147800

1147700

1147600

649700

1147500

649600

1147400  
649400  
649300  
1147300

24" R.C.P.  
INV. = 730.4'

36" R.C.P.  
INV. = 730.1'

100' RAILROAD RIGHT OF WAY

649000

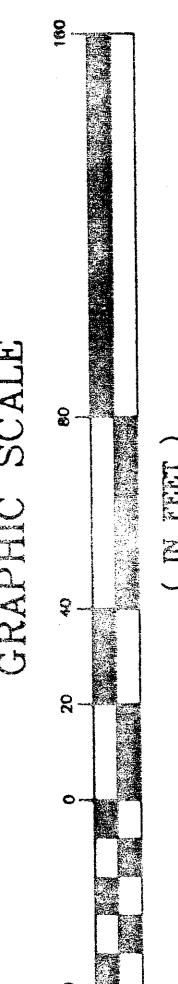
949100

649200

649100

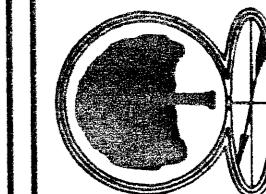
649000

GRAPHIC SCALE



DRAWN BY: W.H.S.
CHECKED BY: W.H.S.
SURVEY DATE: 12-05-98
DRAWING DATE: 12-07-98
FLO. BK.: ELECTRONIC
SCALE: 1" = 40'
DRAWING NAME: SONSASB
JOB NUMBER: 98-010P

AS-BUILT SURVEY  
OF  
THE NORTHSIDE PROPERTY  
NORTH OF THE RAILROAD  
ANNISTON, ALABAMA



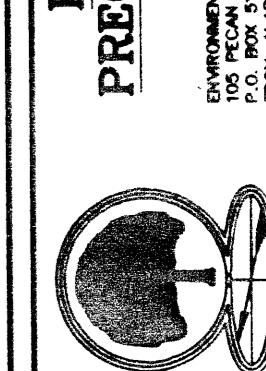
**ENVIRONMENTAL  
PRECISION ASSOCIATES  
INC.**

ENVIRONMENTAL LAND AND CONSTRUCTION SURVEY SERVICES  
105 PEACON STREET  
MUSCLE CREEK, ALABAMA 36242  
PHONE: (334) 433-7243  
FAX: (334) 433-7245  
E-MAIL: EPA@AOL.COM  
WEB SITE: [WWW.EPA.ORG](http://WWW.EPA.ORG)

SURVEYOR'S NOTES:

- COORDINATE POSITIONS SHOWN HEREON ARE BASED ON GLOBAL POSITIONING SYSTEM POINTS PROVIDED BY ALMON AND ASSOCIATES OF TUSCALOOSA, ALABAMA.
- BOUNDARY LOCATIONS SHOWN HEREON ARE PROVIDED BY ALMON AND ASSOCIATES.
- NO UNDERGROUND UTILITIES WERE LOCATED OR SHOWN HEREON.
- THIS SURVEY INCLUDES NO OPINION AS TO THE VALIDITY OF THE PROPERTY LINE SHOWN HEREON AND IS INTENDED TO DEPICT THE CONSTRUCTION ACTIVITIES COMPLETED ONLY.

LEGEND:
○ = UTILITY POLE
— = OVERHEAD UTILITIES
— = PROPERTY LINE
— = GUY WIRE
— = STREET SIGN
— = CHAIN LINK FENCE
— = LIMIT OF CONSTRUCTION

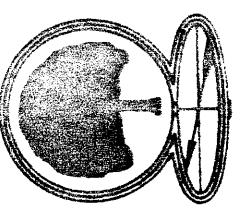


**ENVIRONMENTAL  
PRECISION ASSOCIATES  
INC.**

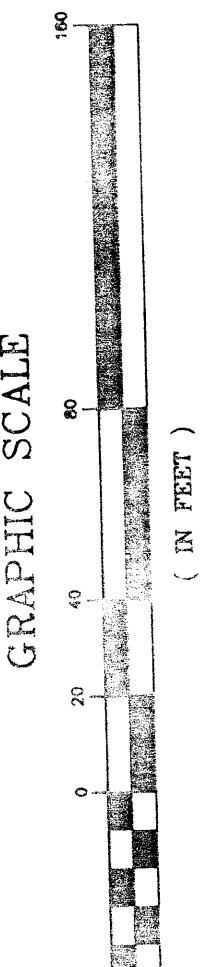
ENVIRONMENTAL LAND AND CONSTRUCTION SURVEY SERVICES  
105 PEACON STREET  
MUSCLE CREEK, ALABAMA 36242  
PHONE: (334) 433-7243  
FAX: (334) 433-7245  
E-MAIL: EPA@AOL.COM  
WEB SITE: [WWW.EPA.ORG](http://WWW.EPA.ORG)

**ENVIRONMENTAL  
PRECISION ASSOCIATES  
INC.**

ENVIRONMENTAL LAND AND CONSTRUCTION SURVEY SERVICES  
TROY, ALABAMA 36080  
TEL: (334) 670-0000  
FAX: (334) 670-4232  
E-MAIL: (334) 670-4233  
P.O. BOX 511  
TROY, ALABAMA 36081  
DRAFTS: 01/26/70



AS-BUILT SURVEY  
OF CONSTRUCTION ACTIVITY  
AT THE WEST END LANDFILL  
NORTH OF HIGHWAY #202  
ANNISTON, ALABAMA



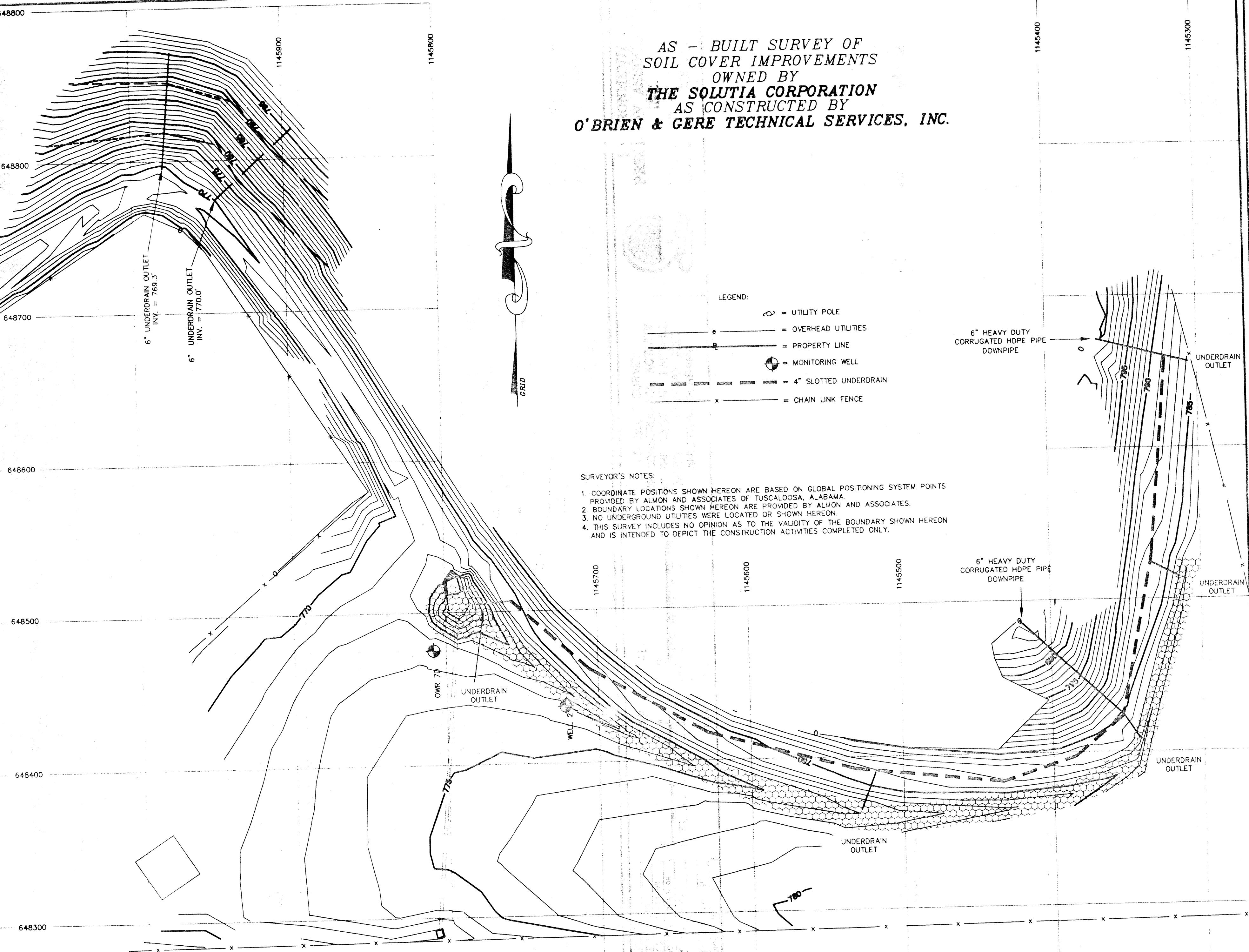
AS - BUILT SURVEY OF  
SOIL COVER IMPROVEMENTS  
OWNED BY  
**THE SOUTIA CORPORATION**  
AS CONSTRUCTED BY  
**O'BRIEN & GERE TECHNICAL SERVICES, INC.**

LEGEND:

- = UTILITY POLE
- = OVERHEAD UTILITIES
- = PROPERTY LINE
- = MONITORING WELL
- - - = 4" SLOTTED UNDERDRAIN
- X = CHAIN LINK FENCE

SURVEYOR'S NOTES:

1. COORDINATE POSITIONS SHOWN HEREON ARE BASED ON GLOBAL POSITIONING SYSTEM POINTS PROVIDED BY ALMON AND ASSOCIATES OF TUSCALOOSA, ALABAMA.
2. BOUNDARY LOCATIONS SHOWN HEREON ARE PROVIDED BY ALMON AND ASSOCIATES.
3. NO UNDERGROUND UTILITIES WERE LOCATED OR SHOWN HEREON.
4. THIS SURVEY INCLUDES NO OPINION AS TO THE VALIDITY OF THE BOUNDARY SHOWN HEREON AND IS INTENDED TO DEPICT THE CONSTRUCTION ACTIVITIES COMPLETED ONLY.



AS - BUILT SURVEY OF THE SOIL COVER  
AT THE BETHEL CHURCH PROPERTY  
OWNED BY  
**THE SOUTIA CORPORATION**  
AS CONSTRUCTED BY  
**O'BRIEN & GERE TECHNICAL SERVICES, INC.**

1148100

1148100

1148000

1148000

1147900

1147900

1147800

1147800

1147700

1147700

1147600

1147600

651100

651200

651300

651400

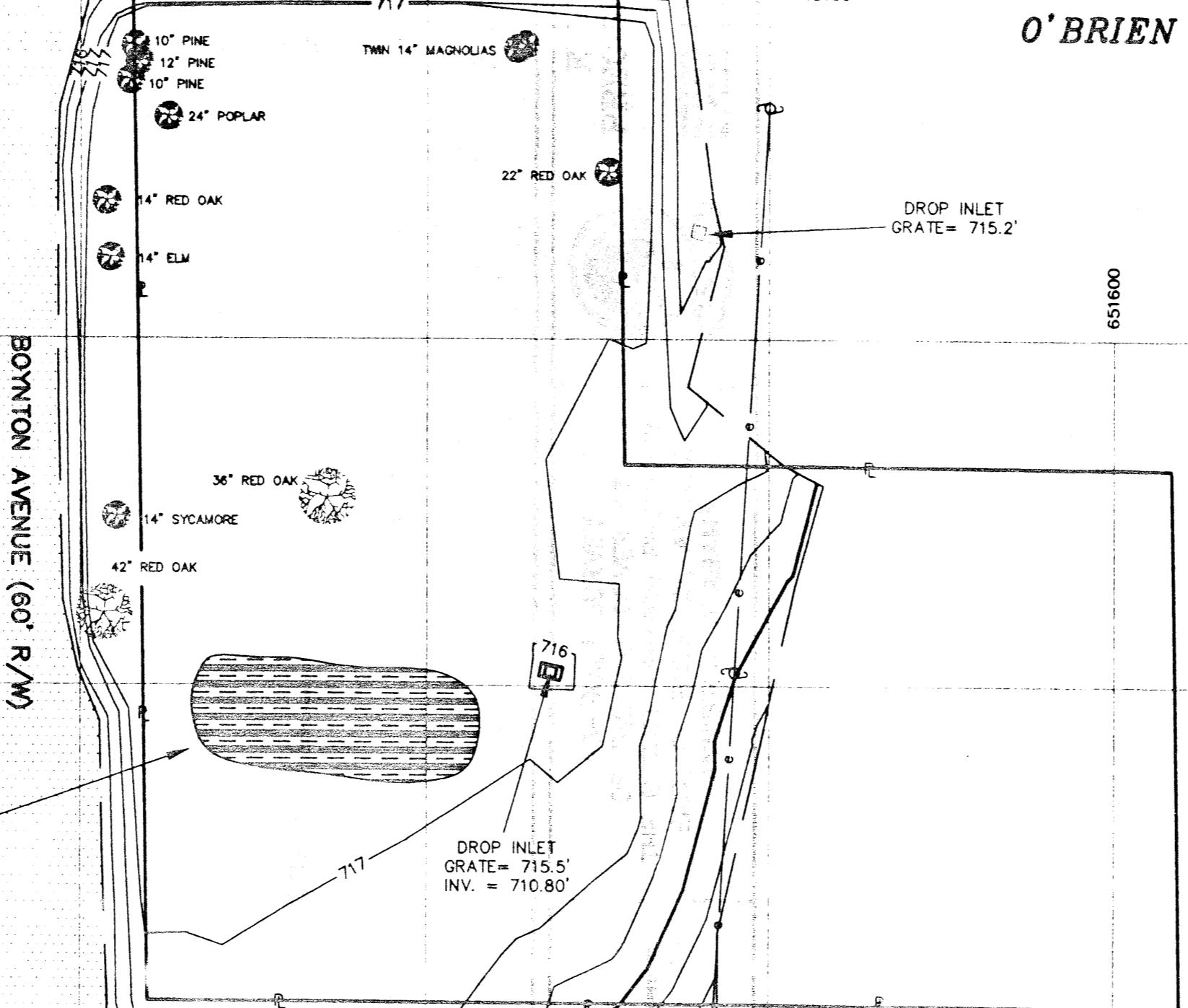
651500

1148100

8TH STREET

MATERIAL EXCAVATED FROM  
705 C. DALE AVENUE  
PLACED IN OLD CHURCH  
FOUNDATION BENEATH SOIL COVER  
(LOCATION PER FERGUSON - HARBOUR  
PERSONNEL.)

10" H.D.P.E.  
PIPE  
INV. = 714.8'



THESE STREETS ARE NOT CURRENTLY  
CONSTRUCTED AND ARE TO BE ABANDONED  
BY THE CITY OF ANNISTON.  
(NO DOCUMENTATION FOUND)

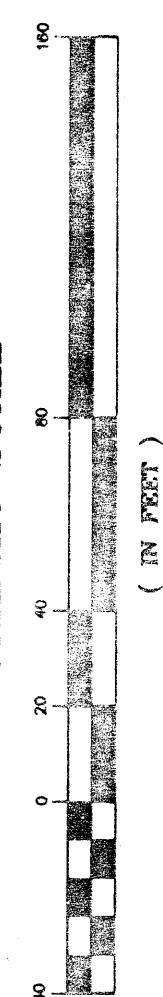
SURVEYOR'S NOTES:

- COORDINATE POSITIONS SHOWN HEREON ARE BASED ON GLOBAL POSITIONING SYSTEM POINTS PROVIDED BY ALMON AND ASSOCIATES OF TUSCALOOSA, ALABAMA.
- BOUNDARY LOCATIONS SHOWN HEREON ARE PROVIDED BY ALMON AND ASSOCIATES.
- NO UNDERGROUND UTILITIES WERE LOCATED OR SHOWN HEREON.
- THIS SURVEY INCLUDES NO OPINION AS TO THE VALIDITY OF THE PROPERTY LINE SHOWN HEREON AND IS INTENDED TO DEPICT THE CONSTRUCTION ACTIVITIES COMPLETED ONLY.
- REVISIONS PER GOLDER ASSOCIATES COMPLETED ON MARCH 21, 1999.

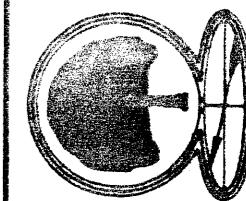
LEGEND:

- = UTILITY POLE
- = OVERHEAD UTILITIES
- = PROPERTY LINE
- = TREE (AS DESCRIBED)
- = STREET SIGN
- = CHAIN LINK FENCE
- = LIMIT OF CONSTRUCTION

GRAPHIC SCALE



ENVIRONMENT  
PRECISION ASSOC  
INC.



AS-BUILT SURVEY  
OF THE SOIL COVER AT  
THE BETHEL CHURCH PROPERTY  
EAST OF BOYNTON AVENUE  
ANNISTON, ALABAMA

DRAWN BY: WHS.
CHECKED BY: WHS.
SURVEY DATE: 11-23-98
DRAWING DATE: 12-02-98
FLD. BK.: ELECTRONIC
SCALE: 1" = 40'
DRAWING NAME: SOBCASB
JOB NUMBER: 98F-010

ENVIRONMENTAL LAND AND CONSTRUCTION SUR

TEL \ FAX (334)  
106 PECAN STREET  
P.O. BOX 514  
TROY, ALABAMA 36081

MOBILE: (334)  
PAGER: (800)  
ID# 012678