

ADDENDUM NO. 2

Date: August 18, 2014

Project: City of Tuscaloosa
City Walk at University Place and Forest Lake
Project No. A12-1413/A12-0993

Bid Date: **Thursday, August 28, 2014**
9:00 a.m. local time
Narashino Conference Room in City Hall

The following changes, additions, clarifications, and/or deletions are hereby made part of the Contract Documents for the project referenced above as fully and completely as if the same were set forth fully therein:

1. **Warranty Period:**
Warranty period for all items on the project shall be one (1) year from the Substantial Completion of the entire project, as determined and established by the City/City Representative. This shall include and supersede any and all references otherwise in the project technical specifications, including, but not necessarily limited to, irrigation, landscaping, grass/sod, electrical, etc. Furthermore, any reference to the guarantee period in the contract documents shall be considered as warranty period.
2. Technical Specification Section 02229, Construction Best Management Practices Plan, shall be added to the contract documents.
3. Technical Specification Section 02240, Stormwater Monitoring and Temporary Erosion Control, shall be replaced in its entirety.
4. Technical Specification Section 12810, Underground Irrigation System, shall be amended to include the following as Part 3, Paragraph 3.9.D:
The Contractor shall anticipate having the irrigation subcontractor available to assist the City with final adjustment and operation of the irrigation system following the installation of all landscape, plantings, sod, etc., including, but not necessarily limited to, adjustment of irrigation heads, valves, timers, control panel, etc. Such work shall be coordinated with and at the discretion of the City of Tuscaloosa, and shall include a maximum of one (1) – eight hour work.
5. **Construction Plans:**
 - a) Sheet C2.0 – demolition of existing light pole assembly
 - b) Sheets C5.0, C5.1, and C8.7 – general revisions to erosion control plans (C5.0 and C5.1) and erosion/sedimentation control details (C8.7)
 - c) Sheet C8.4 – elimination of duplicate ALPCO pull box details and duct bank trench revisions
 - d) Sheet C8.5 – modification of pole details
 - e) Sheet C8.9 – general modification of ALPCO details
 - f) Sheet E0.1 – Light Fixture Schedule and general note modification / additions.
 - g) Sheet E1.7 – added additional pole assembly and circuitry
6. **Bid Proposal:**
 - a) Unit Price Bid Item No. 89 Quantity Modified
 - b) Unit Price Bid Item No. 90 Quantity Modified
 - c) Unit Price Bid Item No. 92 Description Modified
 - d) Unit Price Bid Item No. 120 Added (IT/Communication Cabinet Pole Mounted Box Assembly)
 - e) Unit Price Bid Item No. 121 added (Unsuitable Soil Removal and Replacement)
 - f) Unit Price Bid Item No. 122 added (Removal of Existing Light Assembly)

7. Sales and Use Taxes:

- a) Article II., Paragraph J. of the Contract Agreement (page 28) shall be removed in its entirety and replaced with the following: Sales and Use Taxes SHALL NOT be included in the bid. The project will be bid and administered in compliance with the State of Alabama Act 2013-205, Certificate of Exemption from Sales and Use Tax for Governmental Entities, regarding sales and use taxes. The Contractor shall be responsible for obtaining a certificate of exemption from the Alabama Department of Revenue for purchases of materials and other tangible property made part of the project. Any subcontractors purchasing materials or other tangible personal property as part of the project shall also be responsible for obtaining a certificate of exemption.
- b) As per the State of Alabama Act 2013-205, Certificate of Exemption from Sales and Use Tax for Governmental Entities, the estimated sales and use tax savings must be accounted for on the bid proposal. Failure to provide the estimated sales and use tax savings shall render the bid as non-responsive. Other than determining responsiveness of the bid, sales and use tax accounting shall not affect the bid pricing nor be considered in the determination of the lowest responsible and responsive bidder.
- c) See the attached revised Bid Proposal sheet 15 to be used in the bid submittal which includes provisions for sales and use tax savings accounting on the bid proposal.
- d) For more information regarding the State of Alabama Act 2013-205, see the following link
 - <http://www.burr.com/News,-a-,Resources/Resources/-/media/3017788EA20048F19607FC0343BCF025.ashx>

8. Bidder Questions:

- a) Question: Will the provisions of the contract regarding contractor (prime contractor) must perform 50% of the work with own forces be required?
Answer: Yes; based on the estimated construction cost breakdown this will be attainable.
- b) Question: Will the installation of the PVC conduits for the future technology duct bank, ALPCO, ATT, Comcast PVC conduits and associated pullboxes, pedestals, pads be required to be installed by an electrical contractor?
Answer: No; as per the Alabama General License Board of General Contractors, contractors licensed in the State of Alabama as a General Contractor along with a Municipal and Utility classification may install such conduits and associated appurtenances.
- c) Question: Are sales and use taxes to be included in the bid? Purchasing agent agreement required? Does the recently enacted State of Alabama Act 2013-205 not apply?
Answer: See item 7 above; the purchasing agent agreement will not be used.
- d) Question: Any assistance with finding MBE / DBE / WBE subcontractors to satisfy the stated 10-20% goals established by the City of Tuscaloosa?
Answer: BCIA can assist in finding approved MBE / DBE / WBE
- e) Question: Will a building permit from the City of Tuscaloosa be required, and if so, who responsible for the costs, coordination with inspections department, plan submittal to the City?
Answer: A building permit will be required for the project in order to satisfy connections to ALPCO. All associated costs, coordination, plan submittal, etc. shall be handled by the City.
- f) Question: What is the estimated construction cost of the project?
Answer: Bracketed between \$2.25 and \$2.75 million;
- g) Question: Construction testing, construction layout, record drawings?
Answer: TTL, Inc. will provide all construction materials testing. McGiffert and Associates, LLC will provide all construction layout and preparation of record drawings on behalf of the City at no costs to the contractor. Any re-testing associated with initial failed

material tests shall be the responsibility of the contractor. Any re-staking due to negligence on the contractors behalf shall be the responsibility of the contractor.

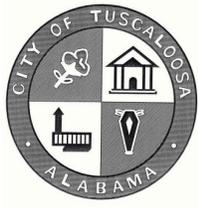
h) Question: Will the contractor be responsible for any costs associated with ALPCO, ATT, Comcast relocations and / or conversions of overhead to underground other than the items as specified in the Bid Proposal?

Answer: No, all such costs shall be paid by the City.

Attachments:

- Revised Bid Proposal, page 15
- Revised Bid Proposal Unit Price Bid Schedule, pages 15E and 15G
- Pre-Bid Agenda and Sign-In Sheet
- Technical Specification Section 02229
- Technical Specification Section 02240
- Construction Plan Sheet C2.0
- Construction Plan Sheet C5.0
- Construction Plan Sheet C5.1
- Construction Plan Sheet C8.4
- Construction Plan Sheet C8.7
- Construction Plan Sheet C8.9

END OF ADDENDUM NO. 2



RECEIPT OF ADDENDUM NO. 2

Project: City of Tuscaloosa
City Walk at University Place and Forest Lake
Project No. A12-1413/A12-0993

The following hereby acknowledges receipt of Addendum No. 2, dated August 14, 2014.

Complete the following and return by fax to (205) 759-1524 or scan and email to dmarcum@mcgiffert.com.

We are in receipt of Addendum No. 2 and fully understand the contents and our bid on the above referenced project submitted reflects the intent of this Addendum.

Contractor Name

*By: _____

Date: _____

* *Signature must be by person legally qualified to sign bid.*

ALTERNATES: Attach additional sheets for additive or deductive alternates, if in contract documents.

UNIT PRICES: Where the Project is bid in unit prices then Bidder agrees to perform the work in the stated quantities of the materials at the unit prices so bid, the cumulative total of which constitutes the base bid set forth below, and to accept as final payment for the work performed under this Project as herein specified the extension of each such unit price for the quantities actually installed in accordance with the following or attached unit price schedule.

An unbalanced bid, as herein defined, may be considered non-responsive. A bid resulting in a substantial advance payment on an item that is for a single lump sum payment may be considered non responsive.

Prices for mobilization and demobilization combined shall not exceed 5% of the total base bid unless a reasonable explanation is provided in writing with the bid and accepted by the Owner. Lump sum payments and unit price bids for a single or lump sum payment may be spread over the course of the period of work until the line item is complete at owner's option.

The Bidder's unit price for materials listed is as including the payment of taxes (See Page 3) where applicable: (See Attached Bid Schedule (15a thru 15g))

SALES AND USE TAX SAVINGS ACCOUNTING

Pursuant to State of Alabama Act 2013-205, Section 1(g) the Contractor accounts for the sales tax NOT included in the bid proposal form as follows:

ESTIMATED SALES AND USE TAX

BASE BID: \$ _____

Additive Alternate: \$ _____

Failure to provide an accounting of sales tax shall render the bid non-responsive. Other than determining responsiveness, sales tax accounting shall not affect the bid pricing nor be considered in the determination of the lowest responsible and responsive bidder.

AS BUILT DRAWINGS: The Bidder's Proposal contains \$ N/A for "as built drawings."

BIDDER'S DECLARATION AND UNDERSTANDING: The undersigned, hereinafter called the Bidder, declares that the only persons or parties interested in this Proposal are those named herein, that this Proposal is, in all respects, fair and without fraud, that it is made without collusion with any official of the City, and that the Proposal is made without any connection or collusion with any person submitting another Proposal on this Contract.

The Bidder further agrees that he has checked and verified the completeness of the Contract Documents and that he has exercised his own judgment regarding the interpretation of subsurface information utilizing all pertinent data in arriving at his conclusions. The Bidder shall be fully responsible for any damages or liability arising out of his or his subcontractors prebid investigations.

The Bidder understands and agrees that if a Contract is awarded, the City may elect to award all schedules under one Contract, lump sum, separately, or in any combination that best serves the interests of the City.

The Bidder further declares that he has carefully examined the Contract documents for the construction of the Project and has checked and verified the completeness of the Contract Documents, that he has personally inspected the site, that he has satisfied himself as to the quantities involved, including materials and equipment, and conditions of work involved. Bidder further declares that he is fully aware of the fact that the description of the work, quantities of work and materials, as included herein, is brief and is intended only to indicate the general nature of the work and to identify the said quantities with the detailed requirements of the Contract Documents. Bidder also declares that this Proposal is made according to the provisions and under the terms of the Contract Documents, which Documents are hereby made a part of this Proposal.

| Item No. | Estimated Quantities | | | Unit | Description | Unit Price | Extended Sub-Total | | Total |
|----------|----------------------|-------------|-------|------|--|------------|--------------------|-------------|-------|
| | Univ. Place | Forest Lake | Total | | | | Univ. Place | Forest Lake | |
| 89 | 15 | 10 | 25 | each | Street-Pedestrian Combination Pole/Fixture Assembly Installation (Includes Pole, Pole Arm, Fixtures, Anchors Bolts, Decorative Base Provided by City; Circuitry, Electrical Outlets, etc. Provided by and Installed by Contractor) | | | | |
| 90 | | 16 | 16 | each | Street Pole/Fixture Assembly Installation (Includes Pole, Pole Arm, Fixtures, Anchors Bolts, Decorative Provided by City; Circuitry, Electrical Outlets, etc. Provided by and Installed by Contractor) | | | | |
| 91 | | 2 | 2 | each | Pedestrian Light Assembly Installation (Includes Pole, Pole Arm, Fixture, Anchors Bolts, Decorative Base Provided by City; Circuitry, Electrical Outlets, etc. Provided by and Installed by Contractor) | | | | |
| 92 | 15 | 28 | 43 | each | Concrete Pole Base Installations (All Types) (Includes all reinforcement, conduits, circuitry, electrical outlets , grounding wire/rods, etc. as on light pole base detail) | | | | |
| 93 | | 2 | 2 | l.s. | Lighting Control Panels and Connection to ALPCO | | | | |
| 94 | 1 | | 1 | l.s. | Connect to Existing Lighting Control Panel | | | | |
| 95 | | 1 | 1 | l.s. | Allowance for ALPCO Service Connection Fee | 8,000.00 | | 8,000 | 8,000 |
| 96 | 2500 | 4500 | 7000 | l.f. | Buried Electrical Conductors and Conduits for Site Lighting and Irrigation Power Supply | | | | |
| 97 | 1500 | 2000 | 4000 | l.f. | Buried Electrical 1-1/4" PVC Conduits for Security Cameras, WAP, etc. | | | | |
| 98 | 3 | 3 | 6 | each | TDOT Quazite Vaults/Pull Boxes (36" x 48" x 36") | | | | |
| 99 | 1 | 4 | 5 | each | TDOT Quazite Vaults/Pull Boxes (48" x 72" x 48") | | | | |
| 100 | 1100 | 2260 | 3360 | l.f. | Buried Empty Fiber Optic Six Way 4" (Inside Diameter) Conduits with Three Way 1-1/4" Innerducts per Each 4" Conduit with pull cords (Includes all Spacers, Excavation, Native Material Backfill, Compaction, per trench detail) | | | | |
| 101 | 5 | 5 | 10 | each | Carsonite Markers (Electrical) | | | | |
| 102 | 600 | 1600 | 2200 | l.f. | ALPCO: Dual 3" (Inside Diameter) Sch. 40 PVC Conduits for Single Phase Secondary (Includes all Conduits, Spacers, Fittings for Turn-ups, Pull-cords, Excavation, Native Backfill Material, Compaction, per detail) | | | | |

| Item No. | Estimated Quantities | | Unit | Description | Unit Price | Extended Sub-Total | | Total | |
|----------|----------------------|-------------|----------|---|------------|--------------------|-------------|----------------|--|
| | Univ. Place | Forest Lake | | | | Univ. Place | Forest Lake | | |
| 116 | | 1 | l.s. | Culvert Crossing at Lake Avenue (Hoo's Q / Gilda's); includes all handrails, structural items, modifications to existing concrete flume walls, etc. | | | | | |
| 117 | | 2 | each | Reset Endpost for Existing Chainlink Fence at Whitfield Creek (match existing connection to wall) | | | | | |
| 118 | | 180 | l.f. | Wrought Iron / Brick Fencing | | | | | |
| 119 | | 7 | each | Mailbox Relocation (Includes Multiple Temporary Re-sets as Necessary during Construction) | | | | | |
| 120 | 7 | 14 | each | IT/Communications Cabinet Pole Mounted Box Assembly (Includes all Conduits, Hardware, Circuitry, etc. for Complete Operable Assembly) | | | | | |
| 121 | 1000 | 500 | c.y.i.p. | Unsuitable Soil Removal and Replacement (A-4 Soils or Better) (Only as Directed by Engineer) | | | | | |
| 122 | 1 | | each | Removal of Existing Light Pole Assembly and Demolition of Existing Pole Base | | | | | |
| | | | | | | | | Total Base Bid | |

| Additive Alternate | | | | | | |
|--------------------|------|----------|--|---|--------------------|------|
| 200 | 6100 | s.y.i.p | | Full Width Milling of Existing Asphalt Paving (minimum thickness to accommodate 1-1/2" wearing surface) | | |
| 201 | 6100 | s.y.i.p. | | Improved Bituminous Concrete Wearing Surface Layer, ALDOT Section 424A, 3/8" Maximum Aggregate Size Mix, ESAL Range B, (Minimum 1-1/2" Compacted Thickness); Includes Tack Coat | | |
| 202 | 1 | l.s. | | Replace Existing Traffic Striping, Markings, Legends as per Existing Layout | | |
| 203 | 1 | l.s. | | Adjustment of Existing Manhole Covers and Valve Boxes to Finish Overlay Grade | | |
| | | | | | Alternate Bid Only | \$ - |

Total Base Bid and Alternate

(\$)



CITY OF TUSCALOOSA

CITY WALK AT UNIVERSITY PLACE & FOREST LAKE

City of Tuscaloosa Project No. A12-1413 / A12-0993

PRE-BID SIGN-IN SHEET

August 15, 2014

| | Name | Company | Phone Number | Fax Number | email address |
|----|------------------|--------------------------|--------------|--------------|----------------------------------|
| 1 | Jason Loker | McGiffert and Associates | 205-759-1521 | 205-259-1524 | j.loker@mcgiffert.com |
| 2 | PAUL BURKHALTER | GFC CONSTRUCTION INC | 205-758-1988 | 205-758-3303 | paul@gfc-construction.com |
| 3 | SERVIN GREENE | CITY OF TUSCALOOSA | 205-248-5395 | | sgreene@tuscaloosa.com |
| 4 | CHARLES GOINS | DOUBLE DIAMOND | 205-394-8934 | | double_diamond@bellsouth.net |
| 5 | ROBERT DELORIOSE | JOHN PLOTT CO INC | 205 345 5678 | 205 752 2245 | H HINDS @ J PLOTT . COM |
| 6 | MARIL JOHNSON | MJC, LLC | 205 752-1978 | 205/343-7989 | Marla.m.johnson@construction.com |
| 7 | DON MURPHY | DRM VILIT/ES | 752-7700 | 391-4900 | DON@DRM VILIT/ES . COM |
| 8 | JEREMY YVE | MOORE CONTRACTING | 393-0888 | | jeremyyve9@gmail.com |
| 9 | Khawnt Wilson | City | | | |
| 10 | Patrick Shay | Cornerstone Civil | 361-1888 | 366-0745 | patrick@cornerstonecivil.com |
| 11 | Alex Medda | Roe Construction | 349-1860 | 349-1862 | amadda@roecconstructioninc.com |
| 12 | KARIN KEBERT | BCFA | 205-701-2160 | | KARIN@bcfa.com |
| 13 | MATT CAODIS | CIVILWORK CONST. | 792-9479 | 553-2313 | CAODIS22@YAHOO.COM |
| 14 | Jared Elmore | Edmonds Engineering | 752-9915 | 752-9913 | jelmore@edmondsengineering.com |
| 15 | Clay Smalley | Hall-Taylor Const. | 758-8265 | 345-0660 | sharonhcc@comcast.net |
| 16 | STEVE FOWLER | Premier Service | 752-6332 | 752-1724 | sfowler@psc1201.com |
| 17 | Jeremy Price | Price Construction | 553-4520 | 553-4627 | info@priceconstruction.com |
| 18 | JEFF BRYANT | CITY OF TUSC. | 248-5821 | 349-0341 | jbryant@tuscaloosa.com |
| 19 | Taylor Davis | ST Bunn | 792-1749 | 349-4288 | tdavis@stbunn.com |
| 20 | PALE FRITZ | PALE FRITZ & ASSOC | 205 591 6721 | | dfritz@pfm.vv.com |

CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN FOR CONTROL OF POLLUTANTS
INSTORMWATER RUNOFF

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INSTORMWATER RUNOFF

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- Appendix F:* CBMPP Amendment Log
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- Appendix H:* Daily Rainfall Data
- Appendix I:* Delegation of Authority
- Appendix J:* Landscaping Plans and Landscaping Details

CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN FOR CONTROL OF POLLUTANTS
INSTORMWATER RUNOFF

| CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN PERMIT REQUIREMENT CROSS-REFERENCE CHART | | |
|---|--|------------------|
| Permit Citation | Description | Section |
| III. D. 1 | CBMPP Development and QCP Certification | 9 |
| III. D. 2 | BMP Implementation and Maintenance | 2.0/2.1/5.1 |
| III. D. 3 (a) i | Construction Site General Description | 1.3 |
| III. D. 3 (a) ii | Operator Identification | 1.2 |
| III. D. 3 (b) | Activities Sequence Description | 2.1 |
| III. D. 3 (c) | Estimate of Total Disturbed Area | 1.1/1.3 |
| III. D. 3 (d) | BMP Implementation Sequence (III. A) | 2.1 |
| III. A. 1 | On-Site Stormwater Volume and Velocity Control | 2.2 |
| III. A. 2 | Discharge Stormwater Volume and Flow Rate Control | 2.2/2.6 |
| III. A. 3 | Minimize Exposed Soil | 2.3 |
| III. A. 4 | Minimize Disturbed Slopes | 2.3/2.4 |
| III. A. 5 | Minimize Sediment Discharges | 2.7 |
| III. A. 6 | Minimize Dust Control Generation | 3.7 |
| III. A. 7 | Minimize Stream Crossings | 1.4 |
| III. A. 8 | Stabilize Construction Exits - Minimize Tracking | 2.8 |
| III. A. 9 | Storm Sewer Inlet Protection | 2.5 |
| III. A. 10 | Buffer Zones and Vegetative Filtration | 2.1/2.3 |
| III. A. 11 | Topsoil Compaction | 2.1/2.3 |
| III. A. 12 | TMDL Pollutant Reductions | 2/4 |
| III. A. 13 (a) | BMP Technical Standards | 2 |
| III. A. 13 (b) | BMP Design Storm Event | 2 |
| III. A. 13 (c) | Low Impact Development and Green Technologies | NA |
| III. D. 3 (e) | Description of TMDL Controls | 1.5/2 |
| III. D. 3 (f) | Enhanced BMP's | 2.9 |
| III. D. 3 (g) | Temporary and Permanent Stabilization Practices | 2.1/2.3/2.4 |
| III. D. 3 (h) | Discharge Dissipation Devices | 4 |
| III. D. 3 (i) | Non-Stormwater Discharge Identified (I. B. 2) | 3.7 |
| III. D. 3 (j) | Non-Stormwater Pollution Prevention Measures | 3.6 |
| III. D. 3 (k) | Long Term BMP's | 4 |
| III. D. 3 (l) | Site Topographic Map | Appendix A |
| III. D. 3. (m) i | Sediment Tracking | 2.8 |
| III. D. 3. (m) ii | Sediment Removal | 1.5/5.1 |
| III. D. 3. (m) iii | BMP Maintenance | 5.1 |
| III. D. 3. (n) | Waste Management | 3.1 |
| III. D. 4. (a) | CBMPP Amendments | Appendix F |
| III. D. 4. (b) | CBMPP Amendment Due to Inspections | 6.3 / Appendix F |
| III. D. 4. (c) | Ineffective/Additional BMP Implementation Compliance | 6.3 |
| III. D. 4. (d) | Record Keeping | 6 |

CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN FOR CONTROL OF
POLLUTANTS IN STORMWATER RUNOFF

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

1.1 Project/Site Information

Project/Site Name: City Walk at University Place & Forest Lake

Project Street/Location: The 18th Street & 1st Avenue Intersection

City: Tuscaloosa State: Alabama ZIP Code: 35401

County: Tuscaloosa

Total Disturbed Acres: 4.0 acres

Latitude/Longitude of the Project Site (front gate): N33° 11' 40.2"; W87° 32' 14.9"

Method for determining latitude/longitude: Google Earth

Applicable Federal, State or Local Programs

The Federal Clean Water Act requires the protection of receiving water quality by the implementation of a point source and non-point source permitting process. The Alabama Department of Environmental Management (ADEM) regulates the EPA's National Pollutant Discharge Elimination System (NPDES) permit program at the state government level. BMP implementation, maintenance, and final site stabilization should be performed in accordance with ADEM regulations and the NPDES General Construction Stormwater Permit conditions. By adhering to this CBMPP and the *Alabama Handbook for Erosion Control and Stormwater Management on Construction Sites and Urban Areas, March 2009 Revision* these requirements should be met. There are no additional local environmental regulatory requirements for Tuscaloosa County.

Endangered Species, Historic Preservation, and Historic Site Contamination

There are no known endangered species, historic structures, or historic features on this site.

1.2 Contact Information/Responsible Parties

Permittee:

Legal Business Name: [CONTRACTOR]

Owner/President/Responsible Official: _____ Phone: _____

Title: _____ Fax: _____

Address: _____ Cell: _____

_____ Email: _____

Responsible Official's On-site Representative:

Legal Business Name: [CONTRACTOR] Phone: _____

Name, Title: _____ Fax: _____

Address: _____ Cell: _____

_____ Email: _____

Emergency 24-Hour Contact:

Legal Business Name: [CONTRACTOR]

Name, Title: _____ Phone: _____

Address: _____ Fax: _____

_____ Email: _____

CBMPP Development, QCP, and QCI Contact:

McGiffert and Associates, LLC
W. David McGiffert, PE/PLS/QCP
Q. Hansel Stewart, PE/QCP
Daniel Homan, QCI
2814 Stillman Boulevard
Tuscaloosa, Alabama 35401
Phone (205) 759-1521
Fax (205) 759-1524

1.3 Nature and Sequence of Construction Activity

Proposed Activity(ies) to be Conducted

- Residential Commercial Industrial Road Construction Linear Utility
 Other (please specify): _____

This project will consist of site preparation and construction of a pedestrian walkway and associated appurtenances. The CONTRACTOR will work within the project boundary shown on the Location Area Map Drawing No. 663-14, attached in *Appendix A*. The total project area associated with this project is four (4.0) acres. Sediment from construction activities and soil disturbance caused by active excavation and backfill operations is the only known major source of pollution that could discharge from this project. Measures shall be implemented as described in Section 2 of this document to reduce the impact of construction on the receiving waters.

Intended Sequence and BMP Implementation

Current weather conditions and forecast shall be considered prior to disturbance activities. This is especially critical in areas where the potential for erosion or off-site sedimentation is high. Disturbance activities in or adjacent to drainage areas and stream channels shall be performed during dry weather when construction will allow. All BMPs necessary to prevent off-site sedimentation and properly protect the receiving waters shall be readily available on-site and installed prior to or immediately after an area is disturbed. Structural BMPs such as silt fence sediment barriers must be installed and operational prior to disturbing up-gradient project areas and beginning construction operations.

A detailed description of implementation of selected BMPs associated with the construction of the proposed sanitary sewer is described in Section 2.1 of this document.

Multiple Operators

| Operator Name | Contact Information | Area of Control |
|---------------|---------------------|-----------------|
| | | |
| | | |
| | | |
| | | |

If individual operators/contractors are designated areas concerning BMP implementation and maintenance, they shall be listed above and the CBMPP shall be updated regularly to reflect this information. See *Appendix F* for the CBMPP Amendment Log.

1.4 Receiving Waters

Description of receiving waters

The water bodies that will be receiving stormwater from the project are Forest Lake and an Unnamed Tributary of Cribbs Mill Creek. Stormwater within the project area naturally drains in an easterly direction along existing curb, gutters, and storm sewer piping prior to discharging to the receiving waters. Once construction begins, stormwater will be redirected to silt fence sediment barriers, inlet protection, and sediment log barriers where it will then be discharged to existing drainage systems that flow in an easterly direction to the receiving waters. There are no stream crossings within the disturbed construction area of this project. There are jurisdictional waters located immediately adjacent to the disturbed area of this project.

Description of storm sewer systems

There is existing storm sewer within the construction area. As construction progresses into areas with existing storm sewer, inlet protection shall be implemented as shown by the Erosion Control Standard Details located in *Appendix B*.

Description of impaired waters or waters subject to TMDLs

The project discharges stormwater to Forest Lake and an Unnamed Tributary of Cribbs Mill Creek. The receiving water bodies are not a 303(d) impaired waterbody subject to Total Maximum Daily Loads (TMDLs). The designated use for the Forest Lake and the Unnamed Tributary of Cribbs Mill Creek is Fish and Wildlife.

1.5 Potential Sources of Pollution

Potential sources of sediment to stormwater runoff

Sediment from soil disturbance caused by active excavation operations is the only known major source of pollution that could discharge from this project. Measures shall be implemented to protect water quality as described in Section 2 of this document.

In the event that a non-compliant discharge from the site occurs, steps shall be taken as specified in Section 5.1 of this CBMPP.

Potential pollutants and known sources, other than sediment, to stormwater runoff

Petroleum products used in equipment and chemicals utilized in construction could be a source of pollution in the event of a spill or equipment leak. There are no plans for large (greater than 5 gallons) fuel or chemical containers on-site associated with this construction project that could reasonably be expected to enter a water of the state. Where applicable, Material Safety Data Sheets (MSDS) shall be kept on-site in the job trailer or with the contractor for all chemicals used or stored within the project area.

The following table should be updated with all potential pollutants that may be added to the site:

| Trade Name Material | Potential Known Stormwater Pollutants | Storage Location |
|----------------------------|--|-------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |

1.6 Maps

See *Appendix A* for the Location Area Map and *Appendix B* for the Erosion Control Plans and Erosion Control Standard Details.

SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

BMPs shown on the Erosion Control Plans and discussed in this document have been selected to help prevent off-site sedimentation and properly protect the receiving waters. These BMPs shall be readily available on-site and installed prior to or immediately after an area is cleared and grubbed. Any additional BMPs determined necessary as construction progresses shall require updating the CBMPP by a QCP. The additional BMPs must then be installed and operational prior to the continuation of construction activities.

The BMPs shown on the attached Erosion Control Plans and Standard Details have been selected for their individual characteristics to protect water quality based on the anticipated site conditions during construction. Required BMPs for the project are shown on the Erosion Control Plans and Standard Details Drawing included in *Appendix B* of this CBMPP. These BMPs are required to be implemented and maintained by the CONTRACTOR in accordance with this CBMPP and the *Alabama Handbook for Erosion Control and Stormwater Management on Construction Sites and Urban Areas, March 2009 Revision*.

2.1 Phase Construction Activity

This project consists of the installation of a pedestrian walkway which is linear in nature. There will be no distinct separate phases for construction activities. Erosion control measures shall be implemented daily as the project progresses and the construction area moves. The project area is located within the existing Right-of-Way which is currently stabilized with bituminous paving or permanent grass and newly obtained easements of which most are covered by grass. Due to a portion the project area being located within this grassed Right-of-Way, clearing and mass grading operations will not be required. Only areas needed for the installation of the proposed pedestrian walkway will be disturbed. Areas not stabilized with concrete shall be immediately grassed with permanent vegetation following installation. This will aid in the preservation of existing vegetation and allow for a vegetative buffer. All disturbed areas will be stabilized with permanent vegetation or sod.

Temporary BMPs shall be implemented and operational prior to or immediately following soil disturbance activities at each section of the project. The contractor's superintendent shall inspect all BMPs daily and determine necessary maintenance. All BMPs shall be maintained and replaced as needed to contain sediment and other pollutants within the project area.

Once the site is completely stable, all temporary BMPs shall be removed. A final inspection shall be performed by a QCP to determine if the site is in compliance with ADEM termination requirements and the NPDES permit termination request will be submitted to ADEM.

2.2 Control Stormwater Flowing onto and through the Project

There will be some off-site stormwater flowing into the site due to natural drainage across the project area. BMPs shall be implemented and maintained throughout the construction process as shown on the Erosion Control Plans located in *Appendix B*. Descriptions of BMPs that will be utilized on-site for the control of stormwater flowing onto and through the site can be found in Sections 2.6 and 2.7.

The locations of selected BMPs have been chosen to control stormwater volume and velocity within the site, according to characteristics of each BMP in the following categories: erosion reduction, runoff conveyance, sediment diversion, detention, filtration, and other sediment control and reduction properties. The selected BMPs shall be implemented and maintained to provide the previously listed characteristics to control stormwater runoff within the site to minimize soil erosion, reduce runoff velocity, and minimize downstream channel and streambank erosion.

The CONTRACTOR shall continually examine what effects variable construction operations create on-site and whether these changing conditions require the need for additional BMPs to control stormwater run-off volume and

velocity thereby reducing on-site and off-site erosion. If the contractor determines that additional BMPs are needed due to these changing site conditions, the CONTRACTOR shall contact the project engineer and QCP to discuss this need and the plan shall be updated as determined necessary by the QCP.

2.3 Stabilize Soils

All areas shall remain vegetated and stable until such time that active construction for that area begins. Once construction is underway for a particular area, efforts shall be made to disturb as little of the area as possible. As construction progresses permanent vegetation or sod shall be implemented to stabilize disturbed areas in accordance with the Landscaping Plans and Landscaping Details located in *Appendix J*.

All bare areas not under active or progressive construction must be temporarily grassed, to minimize the generation of dust or on-site erosion, depending on the timeframe to continue active construction. Final stabilization of disturbed areas shall be initiated immediately whenever earth disturbing activities have permanently ceased on any portion of the site. Permanent vegetation must conform to the Landscaping Plans and Landscaping Details located in *Appendix J*. A hydro seeder may be used if approved by the OWNER. A discussion of the sequencing of stabilization practices is discussed in Section 2.1 of this plan.

If an unforeseeable event halts construction at the site for an unknown period of time, temporary stabilization practices shall be implemented in accordance with the Landscaping Plans and Landscaping Details located in *Appendix J* until such time that construction can continue.

2.4 Stabilize Slopes

There are no slopes of significant grade or length within the project area. Disturbed areas not stabilized with non-erodible cover shall be seeded and mulched to stabilize as required by the Landscaping Plans and Landscaping Details located in *Appendix J*. Silt fence sediment barriers must be installed where indicated on the Erosion Control Plans to reduce erosion migration from the construction area.

Topsoil and permanent vegetation shall be implemented in all areas not stabilized with non-permeable material as required by the Landscaping Plans and Landscaping Details located in *Appendix J*.

2.5 Protect Storm Drain Inlets

Storm sewer inlet protection for this project is crucial for protecting the drainage system and ultimately the receiving waters. Storm sewer inlet protection shall be implemented and maintained as indicated in the attached Erosion Control Plans in accordance with the current phase of construction set forth by the Standard Details until the area is permanently stabilized. Inlet protection shall be checked daily for proper installation and maintenance.

Inlet protection is designed to prevent sediment from entering the storm sewer system at the inlets prior to reaching waters of the state and shall be implemented in accordance with the following stages:

- Stage 1 inlet protection shall be implemented after the installation of the storm sewer pipe at the junction box location and utilized while the area is excavated.
- Stage 2 inlet protection shall be implemented after the installation of the inlet box and utilized until the area is backfilled.
- Stage 3 inlet protection shall be implemented after the area surrounding the storm sewer structure has been successfully backfilled and utilized until the area has been final graded and planted with permanent vegetation.
- Stage 4 inlet protection shall be implemented following final grading and grassing, or paving at curb inlets. This inlet protection shall be utilized and maintained until the disturbed area has been stabilized with permanent vegetation and tracking or migration in curb gutters has ceased.

Required BMPs shall be implemented in accordance with the Erosion Control Plans, the Erosion Control Standard Details, and the NPDES General Permit to protect water quality of adjacent waters of the state as entailed and enforced by the Alabama Department of Environmental Management.

2.6 Establish Perimeter Controls and Sediment Barriers

Silt fence sediment barriers and inlet protection shall be implemented to protect the perimeter of this project. BMPs shall be implemented in accordance with or as detailed on the attached Erosion Control Plans, located in *Appendix B*, to contain sediment within the project area. The following are descriptions of BMPs that will be utilized on-site for perimeter control and sediment barriers:

- Silt fence is designed to intercept storm water sheet flow from the construction area and retain sediment on-site. Type A silt fence sediment barriers shall be implemented to protect the perimeter of this project. Type A silt fence sediment barrier shall be implemented where shown on the attached erosion control plans to contain sediment within the project area.
- Inlet protection is designed to prevent sediment from entering the storm sewer system at the inlets prior to reaching waters of the state.

2.7 Retain Sediment On-Site

Silt fence sediment barriers and sediment log check dams shall be implemented and maintained for the duration of construction as detailed on the Erosion Control Plans located in *Appendix B*. Silt fence sediment barriers and sediment log check dams shall be implemented as shown on the Erosion Control Plans to intercept sheet flow and concentrated stormwater flow from the project and prevent pollutants from discharging to receiving waters. The following are descriptions of BMPs that will be utilized on-site:

- A check dam is a manufactured structure, constructed across a swale, for the purpose of decreasing channelized erosion by reducing the velocity of channel flow.
- Silt fence sediment barriers will be used to reduce sediment moving down slope by creating small ponds that temporarily store run-off and allow sediment to settle and remain on the construction site.
- Vegetation shall also be utilized to stabilize disturbed soils and help to reduce stormwater erosion.

If construction operations by the CONTRACTOR create the need for unanticipated additional on-site sediment retention, the CBMPP can be updated by the QCP to include the use of additional BMPs or sump excavations on-site to increase runoff retention time and allow for additional sediment storage capacity. Once all construction is complete and the site is permanently stabilized with grass, temporary BMPs shall be removed.

2.8 Establish Stabilized Construction Exits

Construction exit pads shall be implemented to prevent off-site sediment tracking onto adjacent roads. The construction exit pad must be installed prior to or on the initial day that construction begins. It shall be the very first BMP installed prior to the site receiving construction traffic. The construction exit pad shall have a minimum length of fifty (50) feet and with a minimum thickness of six (6) inches in thickness of course aggregate ALDOT Section 801 No. 1 stone. The width shall be a minimum of twenty (20) feet and shall be widened, if deemed necessary by the OWNER or QCP, to the width required to accommodate the amount of construction traffic for the site. Current anticipated site conditions do not indicate the need for a geotextile fabric to be placed between the compacted sub-grade and course aggregate. However, if geotextile implementation is determined necessary by the CONTRACTOR or the QCP, the existing construction exit pad shall be removed and re-implemented using the geotextile fabric.

In the event that tracking occurs or material is deposited on the paved surface, the streets must be immediately swept clean and all sediment must be returned to the construction area up-gradient of installed BMPs and grassed to stabilize.

2.9 Additional BMPs

The CONTRACTOR should be aware that the implementation of BMPs must be tailored to specific needs based on current site conditions, construction activities, and anticipated stormwater quality. The CONTRACTOR or his representative shall inspect the site on a daily basis to determine the effectiveness of all BMPs in preventing the degradation of receiving waters and shall contact the QCP to make changes and to implement additional/enhanced non-structural BMPs. As construction progresses, updates to the CBMPP may be needed as site conditions change due to construction operations by the CONTRACTOR. These conditions that may require the implementation of additional/enhanced BMPs up-gradient of the storm sewer system or stormwater discharge points. These additional/enhanced BMPs shall be designed and included in an update to this CBMPP by the QCP. All BMPs shall be appropriately selected for their particular and proper application and shall meet or exceed the requirements

described in this CBMPP and the *Alabama Handbook for Erosion Control and Stormwater Management on Construction Sites and Urban Areas, March 2009 Revision*.

SECTION 3: GOOD HOUSEKEEPING (GROUNDS KEEPING) BMPS

3.1 Material Handling and Waste Management

Due to the linear nature of the project there will be no waste receptacles available within the project area. All trash generated shall be removed from the project area daily and disposed of properly at an off-site location. No materials or trash shall be left on-site and the project area should return to preconstruction conditions.

In the event that waste, outside of typical debris, is generated or discovered during construction, a Hazardous Waste Determination shall be conducted per ADEM Administrative Code rule 335-14-3-.01(2). If the results of the determination prove to be hazardous, the CONTRACTOR shall obtain a waste disposal approval for the generated material in question. Records of the test results, waste analysis, and other determinations shall be maintained for a minimum of three years from the date the waste was generated; per ADEM requirements.

3.2 Establish Proper Building Material Staging Areas

A building material staging area has not been provided due to the nature of the linear project. However, if the CONTRACTOR expresses the need for one, the CONTRACTOR shall contact the project engineer and QCP. If an area is approved by the project engineer, the QCP will then determine the required BMPs needed to contain pollutants within the given area(s). At that time the CBMPP shall be updated to include the new staging area(s). The area(s) shall be easily accessible and shall not conflict with concentrated stormwater flow areas. Building materials shall not be stored on top of or against any BMP or in any other manner that conflicts with or interferes with the operation, inspection, and maintenance of the BMP.

3.3 Designate Washout Areas

Construction materials such as concrete, stucco, or drywall mud that have been classified as environmentally non-hazardous by their manufacturer may be washed out onsite and the CONTRACTOR shall provide a depression that is well marked that will not discharge thereby allowing the materials to dry. Discharge of wastewater from the site associated with the washout of concrete trucks is prohibited at this site and is not authorized.

Concrete washout operations may be performed on-site into a designed concrete washout pit that shall be a minimum of 10 feet wide and 10 feet long with an initial depth of 3 feet to provide 2 feet of solid and liquid waste containment and 1 foot of freeboard to allow for unanticipated rains until the material has dried and is ready to be hauled off. The depressed containment area shall be lined with 10-mil thickness plastic sheeting with no holes or tears to prevent leaching of liquids into the ground. If the CONTRACTOR determines that the storage capacity is not adequate based on the number of trucks during heavy concrete construction periods, the CONTRACTOR shall increase the size of the washout pit or create an additional pit to provide a minimum of 1 foot of freeboard at all times until the washout material has dried and can be removed.

The washout pit shall not be located within 50 feet of a storm sewer inlet or within 100 feet from any stormwater discharge points from the site. The area shall also be located up-gradient of sediment basins and traps, and not in concentrated stormwater flow areas. The location of the washout area may change over time based on current construction operations, however, the concrete washout area should allow for easy access of concrete trucks and should not be placed where disturbed areas will be crossed and create tracking of sediment when the trucks leave the washout area. If the CONTRACTOR decides to utilize a concrete washout area on-site, the QCP shall be notified at that time to evaluate the desired location and update the erosion control plan. A CBMPP Amendment shall be prepared and submitted to ADEM certifying the location.

All materials such as paints, solvents, petroleum products, etc. must be properly disposed of according to the manufacturer's recommendations and State regulations.

3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

No large bulk fuel tanks will be utilized or allowed on the construction site. The CONTRACTOR shall utilize a fuel service truck to re-fuel the equipment fleet. The fuel service truck shall be equipped with a Spill Prevention Control and Countermeasures Plan and spill kits adequate for the fuel volumes that will be dispensed at this facility. As site conditions change, the CONTRACTOR shall designate an equipment fueling area that does not conflict with current construction activities and is not located near a storm sewer inlet, stormwater flow area, or near any stormwater discharge points. The fueling area must be constantly monitored during fueling operations and inspected after every use for spilled or leaked petroleum products. Discharge of fuels and oils used in vehicle and equipment operation and maintenance is prohibited at this site and is not authorized. Any spilled or leaked products should be noted in the Daily Corrective Action Log located in *Appendix E*.

There shall be only minimal equipment maintenance allowed on this site. All equipment shall be properly serviced prior to their arrival. In the event that equipment must be serviced they shall be removed from the site and taken to the CONTRACTOR’S service facility. All equipment and vehicles shall be inspected for leaks at the beginning and end of each workday. If a leak is detected, the equipment must be immediately removed from the site and all contaminated soil must be properly disposed of according to Federal guidelines.

3.5 Control Equipment/Vehicle Washing

There shall be no equipment washing at this project. The use of surfactants or degreasers is strictly prohibited.

3.6 Spill Prevention, Control and Management

The CONTRACTOR shall be responsible for ensuring that a plan is developed for the facility to address the safe storage, handling, and clean up of petroleum products and other chemicals and that the appropriate Spill Kit is on-site and easily accessible. The Spill Kit must be compatible with the known and anticipated petroleum and chemical products and adequate for the anticipated volumes. The CONTRACTOR shall be responsible for ensuring that all employees and subcontractors are trained in the proper spill prevention, management, and emergency response procedures.

A Spill Prevention Control and Countermeasures (SPCC) plan must be developed and certified by a Professional Engineer for sites utilizing single or multiple fuel tanks with a total combined capacity of 1320 gallons or greater. If the CONTRACTOR desires to store tanks that require an SPCC plan, this CBMPP shall be updated to include the SPCC plan that meets the requirements of the 40 CFR Part 112.

3.7 Non-Stormwater Discharge Management

The following non-stormwater discharges are anticipated to occur at the site and the non-stormwater component of the discharge shall comply with Part III.C. of the permit:

| | | | | |
|-----|---|----|---|--|
| YES | | NO | X | Discharges from fire-fighting activities; |
| YES | | NO | X | Fire hydrant flushing; |
| YES | | NO | X | Waters used to wash vehicles where detergents are not used; |
| YES | | NO | X | Water used to control dust; |
| YES | | NO | X | Potable water including contaminated water line flushing not associated with hydrostatic testing; |
| YES | | NO | X | Routine external building wash down associated with construction that does not use detergents; |
| YES | X | NO | | Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; |
| YES | | NO | X | Untamminated air conditioning or compressor condensate associated with temporary office trailer and other similar buildings; |
| YES | | NO | X | Untamminated ground water or spring water; |
| YES | | NO | X | Foundation or footing drains where flows are not contaminated with process materials such as solvents; |
| YES | | NO | X | Landscape irrigation; |

BMPs shown in the Erosion Control Plans were tailored to the site to retain pollutants on-site from stormwater and non-stormwater discharges. A water truck shall be available to water down the site on a daily basis as required to maintain dust control. No discharge is anticipated to occur as a result of dust control spraying; however the BMPs discussed in this CBMPP and shown on the Erosion Control Plans will prevent any discharge from affecting the receiving waters.

SECTION 4: SELECTING POST-CONSTRUCTION BMPs

Post-construction stabilization will primarily consist of impervious areas, such as concrete, bituminous paving, and permanent vegetation or sod. No additional long term BMPs are planned or anticipated to be needed at this site affiliated with this stage of construction.

SECTION 5: INSPECTIONS

5.1 Inspections

All inspections shall be performed in accordance with Part III.G of the General Permit. The following is a list of the anticipated personnel responsible for conducting inspections pertaining to this project. Specific inspection personnel contact information can be found in Section 1.2.

- Daily Observations:
 - The CONTRACTOR'S On-site Representative(s) (Superintendent) for the site shall be responsible for daily inspections of the facility:
[CONTRACTOR] with [CONTRACTOR]
- Monthly Inspections:
 - McGiffert and Associates, LLC representatives shall be responsible for performing and documenting all required monthly Stormwater Inspections.
- Precipitation Event Inspections:
 - McGiffert and Associates, LLC representatives shall be responsible for performing and documenting all Stormwater Inspections following a qualifying rain event.
- Comprehensive CBMPP Evaluation:
 - The QCP shall perform a CBMPP evaluation at a minimum of twice per year.
 - If the QCP determines that modifications and/or additions are required to adequately portray site conditions, the CBMPP shall at that time be modified as required by Part III.D.4. See *Appendix F* for the CBMPP Amendment Log.

Delegation of Authority

No additional employees of the Permittee Company have been delegated authority as a responsible official. The Responsible Official shall review and sign all Stormwater Inspection Reports. Copies of the reports shall be properly filed in the on-site CBMPP.

5.2 Corrective Action

All BMPs shall be inspected daily and any corrective actions needed shall be performed immediately. If current construction activities conflict with the BMP location, the corrective actions must be complete by the end of the workday. Sediment deposits shall be removed once they reach 50% of the BMPs original design volume. To prevent BMP failure and non-compliant discharges, it is strongly recommended that the BMPs be cleaned out after every appreciable rain event, regardless of sediment volume, in order to maintain a 100% holding capacity. The reclaimed sediment must be returned to the eroded area or elsewhere on-site and stabilized. The sediment shall be graded, seeded, and mulched to stabilize up gradient of installed BMPs.

In the event that a non-compliant discharge from the site occurs and is identified by the QCP, QCI, or the CONTRACTOR's Superintendent, ADEM shall receive a verbal notification within 24 hours. An inspection shall be performed by the QCP that notes any deficiencies recognized and identifies corrective/remedial action to be taken. The ADEM non-compliance notification form shall be prepared by the QCP to include a proposed compliance schedule and if necessary a calculated total of sediment migration from the site as required by ADEM for the noncompliance event. Paperwork shall then be submitted to ADEM within five (5) days of the noncompliance or within an ADEM accepted alternative schedule. The steps taken to reduce or eliminate the non-compliance shall be performed in accordance with ITEM VI of ADEM form 25 11-11 and the completed action shall be verified and documented in the CBMPP Corrective Action Log by the CONTRACTOR's on-site representative.

If an event occurs where sediment migrates past BMPs to a stormwater conveyance channel, sediment shall be removed in accordance with the following procedure:

- Sediment in or near conveyance channels shall be removed by utilizing minimal land disturbance techniques, including small equipment and hand labor if necessary.
- The reclaimed sediment must be returned to the eroded area or the designated material storage area. The sediment shall be graded, seeded, and mulched to stabilize up gradient of installed BMPs.
- Disturbed areas outside of the construction area caused by the removal of migrated sediment shall be stabilized with seed and mulch immediately following the reclamation process.

See *Appendix E* for the Daily Corrective Action Log.

SECTION 6: RECORDKEEPING AND TRAINING

6.1 Recordkeeping

The following items shall be recorded and bound into the CBMPP Appendices for review by inspectors:

- Location Area Map (*Appendix A*)
- Erosion Control Plans (ECP), and Erosion Control Standard Details (*Appendix B*). These may be kept in the Construction Documents/Plans but must be accessible for review by inspectors.
- A copy of the signed and certified NOI form or permit application (*Appendix C*)
- A copy of the letter from ADEM acknowledging receipt of your complete NOI/application (*Appendix C*)
- Inspection Reports (*Appendix D*)
- Daily Corrective Action Log For BMP Maintenance (*Appendix E*)
- CBMPP Amendment Log For All Changes / Revisions to the CBMPP or ECP (*Appendix F*)
- Daily Grading and Stabilization Activities Log (estimate disturbed area) (*Appendix G*)
- Daily Rainfall Data recorded in tenths of an inch (*Appendix H*)
- Delegation of Authority (*Appendix I*)
- Landscaping Plans and Landscaping Details (*Appendix J*)

The CONTRACTOR's Superintendent shall be responsible for keeping the CBMPP on-site, and ensuring that all logs and required data are current. The CBMPP shall be stored in the job trailer if one is present on-site, otherwise it shall be stored in the Superintendent's vehicle and available to ADEM for review upon request. After completion of the project the CBMPP and required records shall be kept by the Permittee for a minimum of three (3) years and shall be made available to ADEM for review upon request.

6.2 Log of Changes to the CBMPP

See *Appendix F* for the CBMPP Amendment Log For All Changes / Revisions to the CBMPP or ECP.

6.3 Training

The OWNER has employed McGiffert and Associates, LLC (MAA) to perform and document all required monthly and qualifying rain event Stormwater Inspections. The QCP or a qualified representative shall be readily available and able to be present on-site as often as necessary to document deficiencies to be addressed to maintain compliance with the requirements of the NPDES General Permit. Documentation of certification for MAA personnel can be provided to ADEM upon request. Inspection personnel contact information can be found in Section 1.2.

The CONTRACTOR'S Superintendent shall be experienced in construction techniques involving the proper installation and maintenance of Best Management Practices (BMPs). This person shall have the authority to take special actions as necessary to prevent water quality degradation. The daily inspections will involve visual inspections of all equipment and all BMPs and their effectiveness in preventing pollutants from entering the receiving waters. In the event that BMP implementation or maintenance is impracticable prior to the next storm event, continued land disturbance must cease until additional/modified controls are implemented. The CONTRACTOR'S Superintendent shall be responsible for insuring that all daily BMP inspections are recorded and the appropriate daily logs in the appendices are properly filled out maintained into this on-site CBMPP.

SECTION 7: FINAL STABILIZATION

Once the site is completely stable, temporary BMPs shall be removed, including the silt fence sediment barriers and any accumulated sediment that may have migrated from the construction area. A final inspection shall be performed by a QCP to confirm the site is in compliance with ADEM permit requirements and the NPDES permit termination request will be submitted to ADEM.

See *Appendix G* for the Daily Grading and Stabilization Activities Log.

SECTION 8: TURBIDITY MONITORING

Construction site discharges and associated land disturbance shall not cause an increase in turbidity of 50 NTUs to receiving waters and is prohibited under Part V of the NPDES Permit. Due to the total disturbed acreage being less than ten acres and the project not being located within an impaired watershed draining to a waterbody subject to TMDL's, it is not mandatory to conduct turbidity testing. Therefore, turbidity sampling will not be performed on a regular basis at this site. Turbidity sampling will be performed as determined necessary by the QCP based on inspection observations. The QCP or Responsible Official shall have samples taken to verify if further BMPs are needed and the site is in compliance with the 50 NTU limitation. Equipment used in determining compliance through turbidity monitoring shall be maintained and calibrated as specified by the manufacturer. All monitoring data shall be recorded and maintained with the coinciding inspection reports and shall be made available to ADEM upon request. See the Location Area Map located in *Appendix A* for sampling locations.

SECTION 9: CERTIFICATION AND NOTIFICATION

Certification by QCP

I certify under penalty of law that a comprehensive Construction Best Management Practices Plan (CBMPP) for the prevention and minimization of all sources of pollution in stormwater and authorized related process wastewater runoff has been prepared under my supervision for this site/activity, and associated regulated areas/activities. The CBMPP meets the requirements of the General Permit and if properly implemented and maintained by the operator (CONTRACTOR), discharges of pollutants in stormwater runoff can reasonably be expected to be effectively minimized to the maximum extent practicable according to the requirements of ADEM Administrative Code Chapter 335-6-6-.23 and the General Permit. The CBMPP describes the erosion and sediment control measures that must be fully implemented and regularly maintained as needed at the permitted site in accordance with sound sediment and erosion control practices to ensure the protection of water quality.

Prepared by:

McGIFFERT AND ASSOCIATES, LLC

W. David McGiffert
Registered Professional Engineer
AL. Reg. No. 12113

Date: _____

Certification by Permittee

I understand that this Construction Best Management Practices Plan (CBMPP) is an integral part of the construction project that is required by ADEM and the General Permit conditions, and agree to adopt and adhere to this CBMPP at all times and require any onsite contractor(s) and/or supporting companies involved with the construction project to be contractually bound to this CBMPP. The necessary resources including but not limited to the required personnel, equipment, and materials will be devoted to properly implement and regularly maintain the controls, practices, devices, and measures specified in this document and those required by ADEM, EPA, and local government ordinances. I have the responsibility, along with my representatives, to regularly update this plan as needed based on information obtained and provided by the QCP and any onsite contractor(s) and/or supporting companies involved in the construction project. All fines, penalties, any legal action resulting from the improper or negligent implementation of this CBMPP and BMP implementation and maintenance, or failure to comply with all regulatory requirements of ADEM, EPA, and local government ordinances shall be my responsibility and that of any contractor(s) and/or supporting companies determined legally responsible.

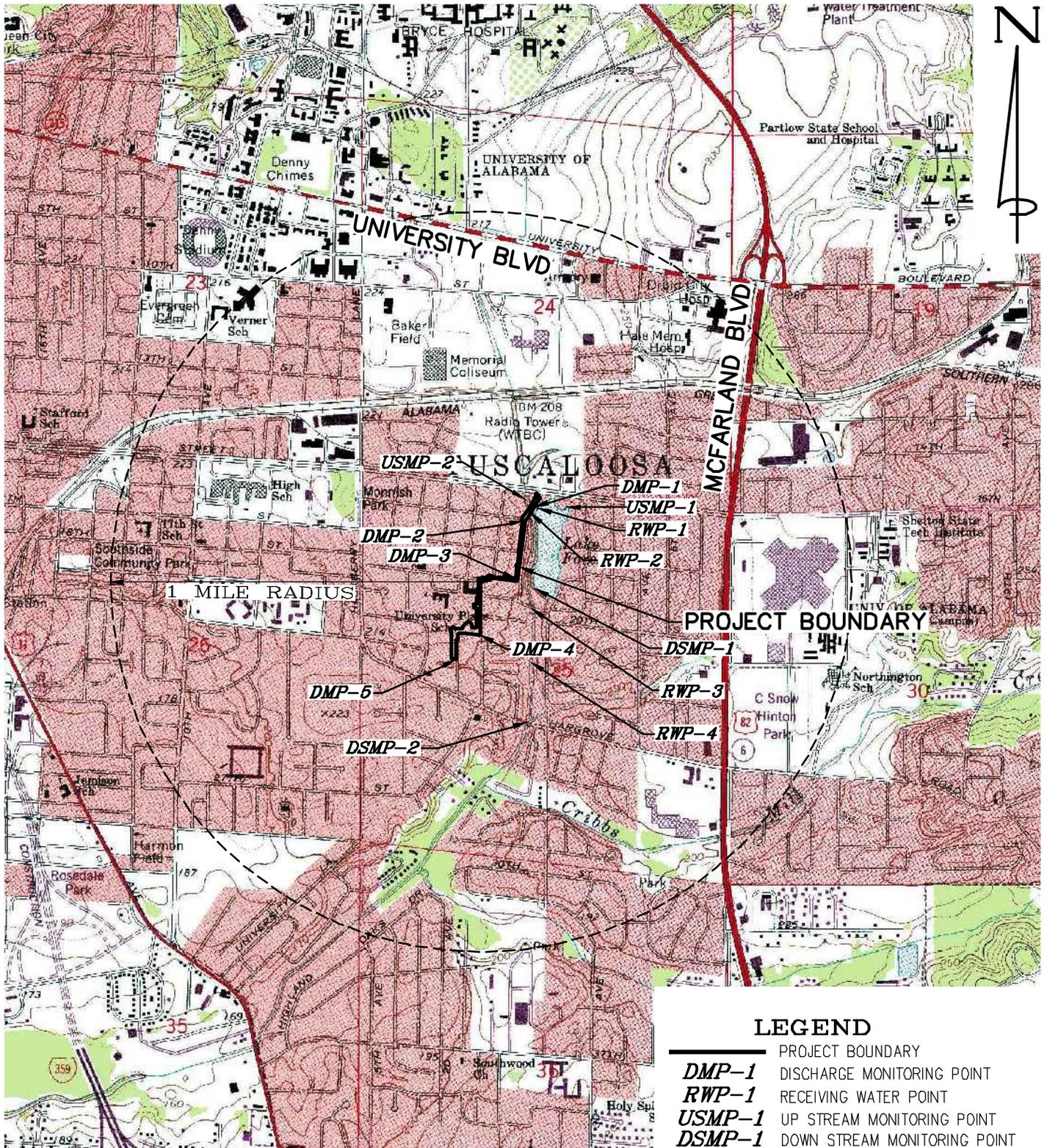
Adopted by:

[CONTRACTOR]

Name: [CONTRACTOR]
Title: [CONTRACTOR]

Date: _____

Appendix A
Location Area Map



LEGEND

- PROJECT BOUNDARY
- DMP-1 DISCHARGE MONITORING POINT
- RWP-1 RECEIVING WATER POINT
- USMP-1 UP STREAM MONITORING POINT
- DSMP-1 DOWN STREAM MONITORING POINT

REPRODUCTION OF A PORTION OF US GEOLOGICAL SURVEY QUADRANGLE SHEET TUSCALOOSA, ALABAMA



2814 STILLMAN BLVD. • P.O. BOX 20559
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WWW.MCGIFFERT.COM (205)759-1521 FAX (205)759-1524

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[CONTRACTOR]
**CITY WALK AT UNIVERSITY PLACE
& FOREST LAKE**

COT PROJECT NO. A12-1418/A12-0993

TUSCALOOSA COUNTY SEC. 25, T 21 S, R 10 W ALABAMA

AREA MAP

REVISION

| DATE | DESCRIPTION | BY |
|------|-------------|----|
| | | |
| | | |

SCALE: 1"=2000'

DATE OF FIELD SURVEY: N/A

FB. N/A PG. N/A

DRAWN BY: D D H

JOB No. 14-3080

FILE NAME: COT-CW(UP&FL)-SW

SHEET No. 1 of 1

CHECKED BY:
QHS

DWG. No.
663-14

Appendix B
Erosion Control Plans and
Erosion Control Details

Appendix C
NOI and Acknowledgement Letter from ADEM

August 11, 2014

Ms. Jennifer Passineau
Construction Stormwater/General Permit Section
Water Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, AL 36110

Re: [CONTRACTOR]
City Walk at University Place & Forest Lake
Notice of Intent – General Construction Stormwater Permit
Tuscaloosa County, Alabama

Dear Ms. Passineau:

On behalf of [CONTRACTOR], please find enclosed the following information for your review and use in the registration of a NPDES permit for the discharge of stormwater:

1. Notice of Intent (ADEM Form 24 11-11)
2. Project Area Map, Drawing No. 663-14
3. A check in the amount of \$1,155.00 for the registration fee

If there is additional information I can provide, please advise.

Yours truly,

McGIFFERT AND ASSOCIATES, LLC

Q. Hansel Stewart, PE
DDH/dm

Enclosures

CC: [CONTRACTOR]
[CONTRACTOR]

K:\wpdata\SW\COT-CW(UP&FL)

NOTICE OF INTENT – GENERAL PERMIT NUMBER ALR100000

NPDES PERMIT NUMBER ALR100000 IS A GENERAL PERMIT AUTHORIZING DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT RESULT IN A TOTAL LAND DISTURBANCE OF ONE ACRE OR GREATER AND SITES LESS THAN ONE ACRE BUT ARE PART OF A LARGER COMMON PLAN OR DEVELOPMENT OR SALE

**Mail to: Alabama Department of Environmental Management
Water Division
Post Office Box 301463
Montgomery, Alabama 36130-1463**

FOR OFFICE USE ONLY

NPDES PERMIT NUMBER

RECEIPT NUMBER

PLEASE COMPLETE ALL QUESTIONS. RESPOND WITH "N/A" AS APPROPRIATE. INCOMPLETE OR INCORRECT ANSWERS, OR MISSING SIGNATURES WILL DELAY PROCESSING. IF SPACE IS INSUFFICIENT, CONTINUE ON AN ATTACHED SHEET(S) AS NECESSARY. ATTACH CBMPP AND OTHER INFORMATION AS NEEDED. PLEASE TYPE OR PRINT LEGIBLY IN INK.

I. PERMITTEE INFORMATION Initial: Modification: Transfer: Renewal: Previous ALR _____

| | |
|---|---|
| Permittee Name [CONTRACTOR] | Responsible Official Phone Number [CONTRACTOR] |
| Responsible Owner/Operator or Official, and Title [CONTRACTOR] | Responsible Official E-Mail Address [CONTRACTOR] |
| Responsible Official (RO) Street/Physical Address [CONTRACTOR] | City, State, and Zip Code [CONTRACTOR] |
| Responsible Official (RO) Mailing Address [CONTRACTOR] | City, State, and Zip Code [CONTRACTOR] |

II. FACILITY INFORMATION

| | |
|--|--|
| Facility/Site Name City Walk at University Place & Forest Lake | Facility Contact and Title [CONTRACTOR] |
| Facility Street Address or Location Description The 18th Street & 1st Ave Intersection | Facility Contact Phone Number [CONTRACTOR] |
| Facility Front Gate Latitude and Longitude N 33° 11' 40.2; W 87° 32' 14.9" | City Zip Code County(s) Tuscaloosa 35401 Tuscaloosa |
| Directions to the Site From the intersection of U.S. Hwy 82 and 15th Street E, travel South on Hwy 82 0.7 miles to Hargrove Road. Turn right onto and continue West on Hargrove Road 0.7 miles to 1st Ave. Turn right onto 1st Ave and continue 0.3 miles to the construction area. | |

III. ACTIVITY DESCRIPTION

Brief Description of Construction / Land disturbance activity(s):
Site preparation and construction of a pedestrian walkway and associated appurtenances.

Area of the Permitted site: Total site area in acres: 4.0 Total disturbed area in acres: 4.0

IV. RECEIVING WATERS

List name of receiving water(s), latitude & longitude (decimal or deg,min,sec) of location(s) that run-off enters the receiving water, and the waterbody classification.

| Receiving Water | Latitude | Longitude | Waterbody Classification |
|----------------------------|-----------------|----------------|--------------------------|
| 1-Forest Lake | N 33° 11' 50.5" | W 87° 32' 5.9" | Fish & Wildlife |
| 2-UNT of Cribbs Mill Creek | N 33° 11' 49.9" | W 87° 32' 6.5" | Fish & Wildlife |
| 3-UNT of Cribbs Mill Creek | N 33° 11' 36.7" | W 87° 32' 6.9" | Fish & Wildlife |
| 4-UNT of Cribbs Mill Creek | N 33° 11' 28.4" | W 87° 32' 6.6" | Fish & Wildlife |
| | | | |
| | | | |
| | | | |

V. PRIORITY CONSTRUCTION SITE

Is this a Priority Construction Site? Yes No If yes, attach/submit a copy of the CBMPP

VI. FACILITY MAP

Please attach a USGS topographic map showing the location of the Facility including site boundaries.

VII. QUALIFIED CREDENTIALLED PROFESSIONAL (QCP) CERTIFICATION

"I certify under penalty of law that a comprehensive Construction Best Management Practices Plan (CBMPP) for the prevention and minimization of all sources of pollution in stormwater and authorized related process wastewater runoff has been prepared under my supervision for this site/activity, and associated regulated areas/activities. The CBMPP meets the requirements of this permit and if properly implemented and maintained by the operator, discharges of pollutants in stormwater runoff can reasonably be expected to be effectively minimized to the maximum extent practicable according to the requirements of ADEM Administrative Code Chapter 335-6-6-.23 and this Permit. The CBMPP describes the erosion and sediment control measures that must be fully implemented and regularly maintained as needed at the permitted site in accordance with sound sediment and erosion control practices to ensure the protection of water quality."

QCP Designation/Description: Alabama Professional Engineer

Address 2814 Stillman Blvd; Tuscaloosa, AL 35401 Registration / Certification: 12113

Name and Title (type or Print) W. David McGiffert, PE/PLS Phone Number (205) 759-1521

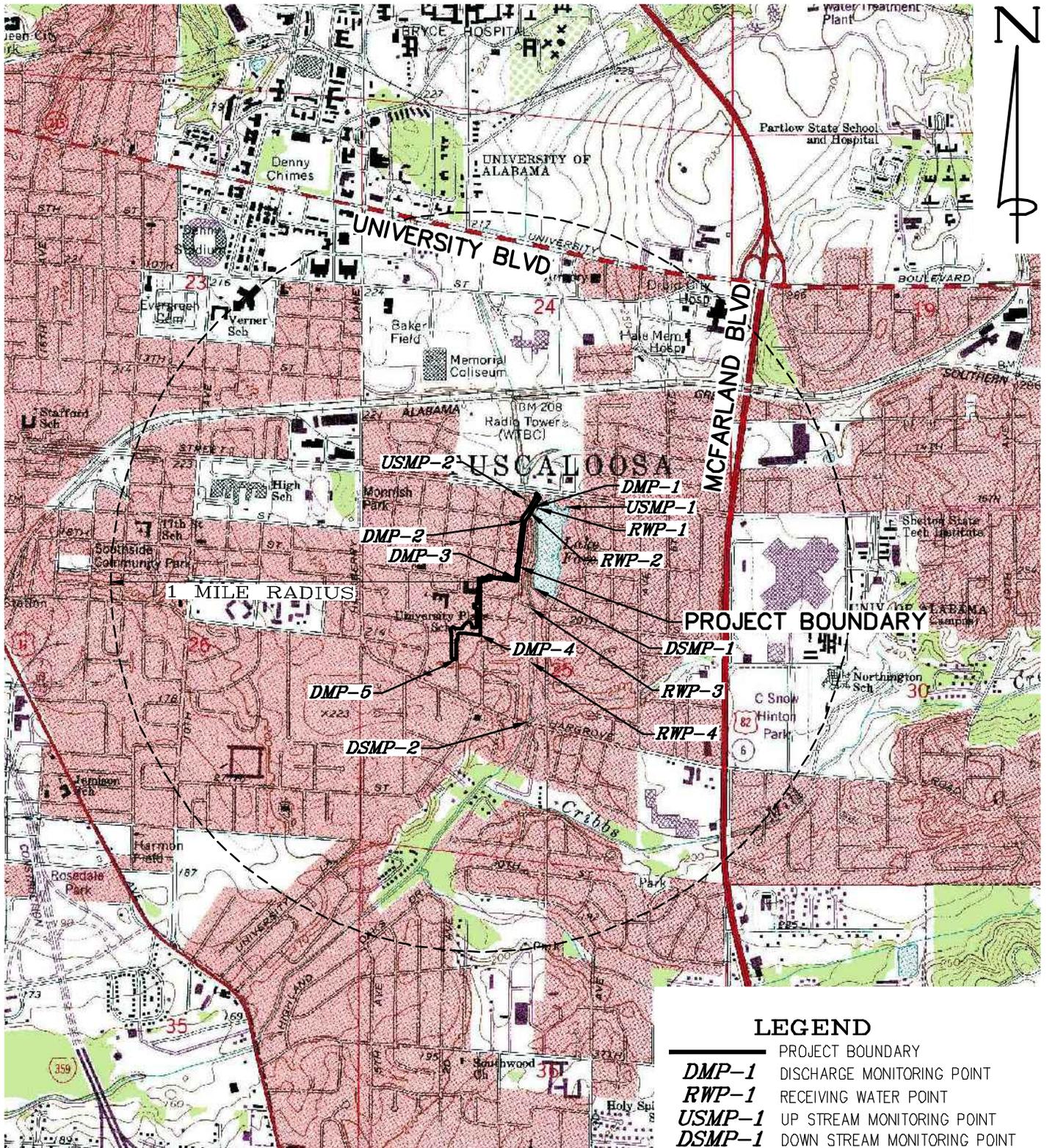
Signature _____ Date Signed _____

VIII. OPERATOR - RESPONSIBLE OFFICIAL SIGNATURE

Pursuant to ADEM Administrative Code Rule 335-6-6-.09, this NOI must be signed by a Responsible Official of the permittee who is the operator, owner, the sole proprietor of a sole proprietorship, a general/controller member or partner, a ranking elected official or other duly authorized representative for a unit of government; or an executive officer of at least the level of vice-president for a corporation, having overall responsibility and decision making for the site/activity. "I certify under penalty of law that this form, the CBMPP, and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the qualified credentialed professional (QCP) and other person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, correct, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. I certify that this form has not been altered, and if copied or reproduced, is consistent in format and identical in content to the ADEM approved form. I further certify that the proposed discharges described in this registration have been evaluated for the presence of any non-construction and/or coal/mineral mining stormwater, or process wastewaters have been fully identified."

Name and Title (type or Print) [CONTRACTOR] Official Title [CONTRACTOR]

Signature _____ Date Signed _____



LEGEND

- PROJECT BOUNDARY
- DMP-1 DISCHARGE MONITORING POINT
- RWP-1 RECEIVING WATER POINT
- USMP-1 UP STREAM MONITORING POINT
- DSMP-1 DOWN STREAM MONITORING POINT

REPRODUCTION OF A PORTION OF US GEOLOGICAL SURVEY QUADRANGLE SHEET TUSCALOOSA, ALABAMA



2814 STILLMAN BLVD. • P.O. BOX 20559
TUSCALOOSA, ALABAMA 35402-0559

WWW.MCGIFFERT.COM (205)759-1521 FAX (205)759-1524

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[CONTRACTOR]
**CITY WALK AT UNIVERSITY PLACE
& FOREST LAKE**

COT PROJECT NO. A12-1418/A12-0993

TUSCALOOSA COUNTY SEC. 25, T 21 S, R 10 W ALABAMA

AREA MAP

REVISION

| DATE | DESCRIPTION | BY |
|------|-------------|----|
| | | |
| | | |

SCALE: 1"=2000'

DATE OF FIELD SURVEY: N/A

FB. N/A PG. N/A

DRAWN BY: D D H

JOB No. 14-3080

FILE NAME: COT-CW(UP&FL)-SW

SHEET No. 1 of 1

CHECKED BY:
QHS

DWG. No.
663-14

Appendix D
Inspection Reports

Appendix E
Daily Corrective Action Log

Appendix F
CBMPP Amendment Log

Appendix G
Daily Grading and Stabilization Activities Log

Appendix H
Daily Rainfall Data
(Record In Tenths Of Inch)

Appendix I
Delegation of Authority

Appendix J
Landscaping Plans and
Landscaping Details

SECTION 02240 - STORMWATER MONITORING AND TEMPORARY EROSION CONTROL

| Article | Contents | Page |
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| 1.02 Payment | | 2 |
| PART 2 - MATERIALS | | 2 |
| 2.01 Erosion Control Materials..... | | 2 |
| PART 3 - EXECUTION..... | | 2 |
| 3.01 Erosion Control Measures | | 2 |

SECTION 02240 - STORMWATER MONITORING AND TEMPORARY EROSION CONTROL

PART 1 - GENERAL

1.01 Stormwater Permit and Monitoring:

- A. The CONTRACTOR shall obtain a National Pollutant Discharge Elimination System (NPDES) General Permit Number ALR100000 (Stormwater Permit) from the Alabama Department of Environmental Management (ADEM) for discharges associated with regulated construction activity that will result in land disturbance equal to or greater than once acre. The CONTRACTOR shall strictly adhere to all requirements of the General Permit. Particular attention is directed to parts of the permit regarding inspections, sampling, monitoring, Construction Best Management Practices Plan, and Spill Prevention Control and Counter Measure Plan. McGiffert and Associates, LLC, on behalf of and at the expense of the Owner, will prepare the NPDES permit and associated support documents for the CONTRACTOR to execute.
- B. The erosion control plan included with the Contract Documents shall be interpreted as minimum requirements and not considered as all that is necessary for controlling erosion and sedimentation on the project. CONTRACTOR shall be responsible for adding or supplementing any additional items or techniques as necessary depending on type and sequence of work being performed on the project. The OWNER reserves the right to require additional items as deemed necessary by the qualified credential professional based on the required inspections at no additional costs to the project.
- C. The CONTRACTOR shall utilize erosion control techniques on all areas of the project to prevent sedimentation from leaving the project area. He shall install and maintain the necessary BMPs to prevent sedimentation and other pollutants from leaving the project area or entering "Waters of the State". Erosion control measures shall be implemented as shown on the Standard Details included in the contract documents and shall meet or exceed the requirements of Section 665.02 of Alabama Department of Transportation Specifications, Latest Edition and the Alabama Handbook for Erosion Control, Sediment Control, And Stormwater Management On Construction Sites and Urban Areas (Latest Edition).
- D. McGiffert and Associates, LLC, on behalf of the OWNER, will provide stormwater inspections and reports for the project as outlined in Part III.G of the General Permit. The CONTRACTOR shall review, sign, and return inspection reports provided by the OWNER to McGiffert and Associates, LLC for record retention as required by Part IV.J of the Permit to be made available for review by the Alabama Department of Environmental Management.
- E. The CONTRACTOR is responsible for his operations that may require monitoring oil & grease, etc. as outlined in ADEM Administrative Code Chapter 335-6-6-.12 (r) as noted in Part III.E of the Permit.
- F. The CONTRACTOR will be furnished a Stormwater Permit registration package when the contract is awarded. The Storm Water Permit registration package will include the following:
 1. Typical transmittal letter to the Alabama Department of Environmental Management.
 2. Notice of Intent filled out with project information.
 3. Project area map.
 4. Construction Best Management Practices Plan (CBMPP)
- G. The CONTRACTOR shall return the following items to McGiffert and Associates, LLC for submittal to the Alabama Department of Environmental Management within five (5) working days of the receipt of the Stormwater Permit registration package provided by the OWNER:

1. The stormwater permit Notice of Intent and CBMPP both signed by the responsible official.
2. Check made payable to: Alabama Department of Environmental Management, in the amount of \$1,155.00 for the general permit registration fee. The costs for this permit registration fee shall be incidental to cost of the project.

1.02 Payment:

- A. Individual erosion control items shall be paid for at the unit prices as shown in the bid schedule.
- B. Monthly inspections will be provided by the OWNER. Other monitoring, as required by the permit for fuel tanks, oil and grease, fertilizers, etc. shall be the CONTRACTOR'S responsibility and shall be incidental to the project.
- C. No separate payment shall be made for adhering to all requirements of the ADEM Stormwater Permit. All such items, including all maintenance, installation, removal, etc. shall be the CONTRACTOR'S responsibility and shall be incidental to the cost of the project.
- D. The CONTRACTOR shall be responsible for all costs associated with any enforcement actions and penalties associated with all non-compliant issues.

PART 2 - MATERIALS

2.01 Erosion Control Materials:

Materials used for erosion control measures shall be in accordance with the Standard Details included in the contract documents and shall meet or exceed Section 665.02 of Alabama Department of Transportation Specifications, Latest Edition and the Alabama Handbook For Erosion Control, Sediment Control, And Stormwater Management On Construction Sites and Urban Areas (Latest Edition) in order to accomplish erosion control.

PART 3 - EXECUTION

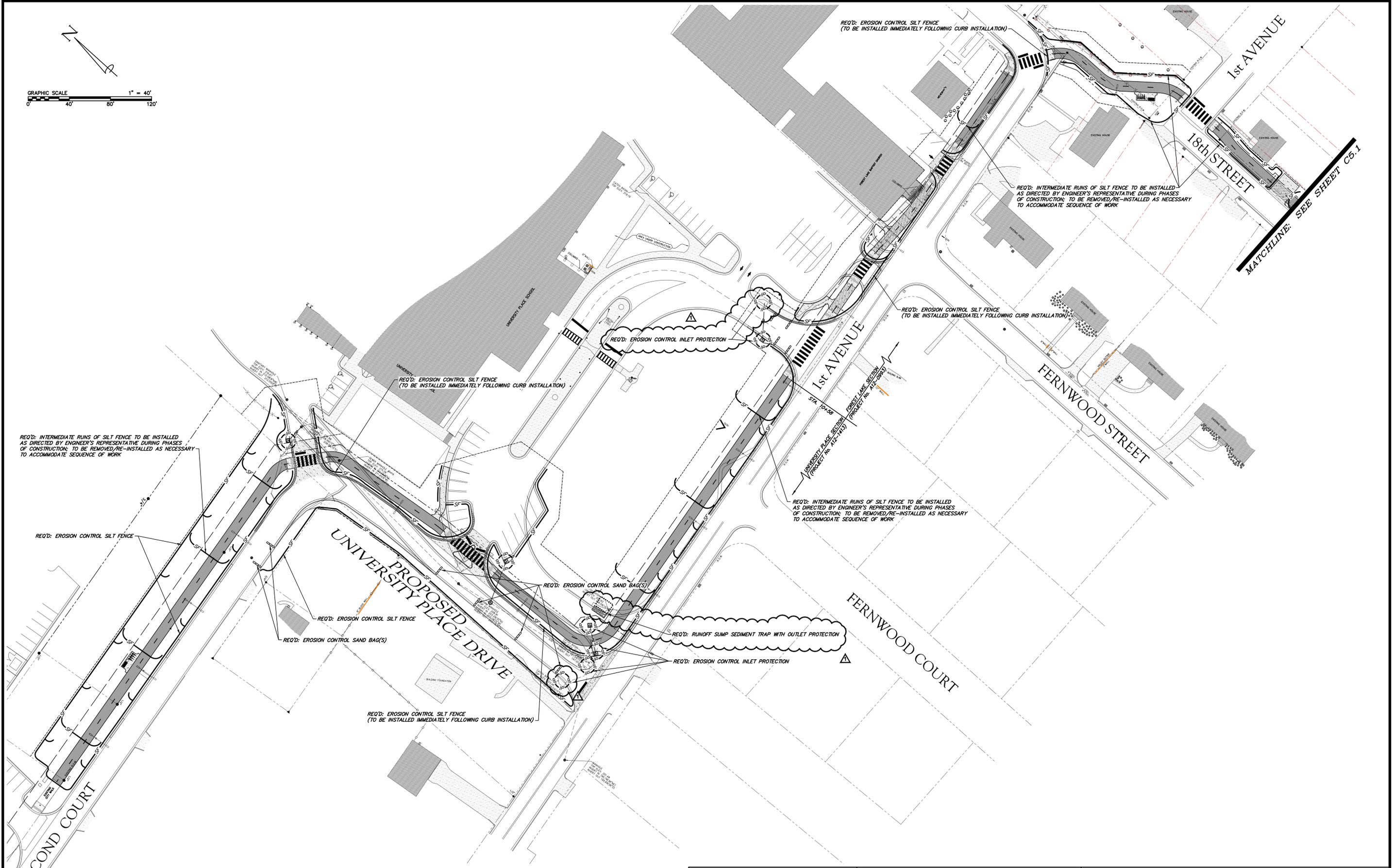
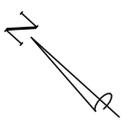
3.01 Erosion Control Measures:

- A. Erosion control measures shall be performed on all disturbed area in accordance with the Standard Details included in the contract documents and shall meet or exceed Section 665.02 of Alabama Department of Transportation Specifications, Latest Edition and the Alabama Handbook For Erosion Control, Sediment Control, And Stormwater Management On Construction Sites and Urban Areas (Latest Edition). The CONTRACTOR will perform all erosion control measures necessary to prevent silt and soil from tracking/accumulating on driveways, roads, or other surfaces, leaving the construction area, and entering private property, entering storm drains/inlets, or the "Waters of the State".
- B. Erosion control measures shall be maintained by the CONTRACTOR until project area is permanently stabilized. If additional measures are required to correct problems which might occur, these shall be performed by the CONTRACTOR at no additional cost to the OWNER.
- C. The CONTRACTOR shall be totally responsible for all erosion and sedimentation control on the project until permit has been transferred or all areas are stabilized permanently as required by the General Permit and the permit is terminated.

- D. The CONTRACTOR shall be responsible for ensuring that all BMPs are properly implemented/maintained at all times during the project and specifically prior to any anticipated rain events. Maintenance, installation, etc. shall be of utmost importance prior to all anticipated rain events. CONTRACTOR shall promptly repair, maintain, supplement erosion control items prior to and immediately after all rain events, and shall immediately clean up and remove any silt from all BMPs and/or areas where sediment has discharged from the project area at no additional costs to the project.

- E. All fines, associated costs, penalties, or legal action resulting from improper or negligent erosion control practices as required by the regulatory requirements of ADEM, EPA, and local government ordinances shall be the responsibility of the CONTRACTOR.

END OF SECTION 02240



REQ'D: INTERMEDIATE RUNS OF SILT FENCE TO BE INSTALLED AS DIRECTED BY ENGINEER'S REPRESENTATIVE DURING PHASES OF CONSTRUCTION; TO BE REMOVED/RE-INSTALLED AS NECESSARY TO ACCOMMODATE SEQUENCE OF WORK

REQ'D: EROSION CONTROL SILT FENCE

REQ'D: EROSION CONTROL SILT FENCE

REQ'D: EROSION CONTROL SAND BAG(S)

REQ'D: EROSION CONTROL SILT FENCE (TO BE INSTALLED IMMEDIATELY FOLLOWING CURB INSTALLATION)

REQ'D: EROSION CONTROL SILT FENCE (TO BE INSTALLED IMMEDIATELY FOLLOWING CURB INSTALLATION)

REQ'D: EROSION CONTROL INLET PROTECTION

REQ'D: EROSION CONTROL SAND BAG(S)

REQ'D: RUNOFF SUMP SEDIMENT TRAP WITH OUTLET PROTECTION

REQ'D: EROSION CONTROL INLET PROTECTION

REQ'D: INTERMEDIATE RUNS OF SILT FENCE TO BE INSTALLED AS DIRECTED BY ENGINEER'S REPRESENTATIVE DURING PHASES OF CONSTRUCTION; TO BE REMOVED/RE-INSTALLED AS NECESSARY TO ACCOMMODATE SEQUENCE OF WORK

REQ'D: EROSION CONTROL SILT FENCE (TO BE INSTALLED IMMEDIATELY FOLLOWING CURB INSTALLATION)

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REQ'D: EROSION CONTROL SILT FENCE (TO BE INSTALLED IMMEDIATELY FOLLOWING CURB INSTALLATION)

MATCHLINE: SEE SHEET C6.1

SECOND COURT

UNIVERSITY PLACE DRIVE

1st AVENUE

FERNWOOD STREET

FERNWOOD COURT

1st AVENUE
18th STREET

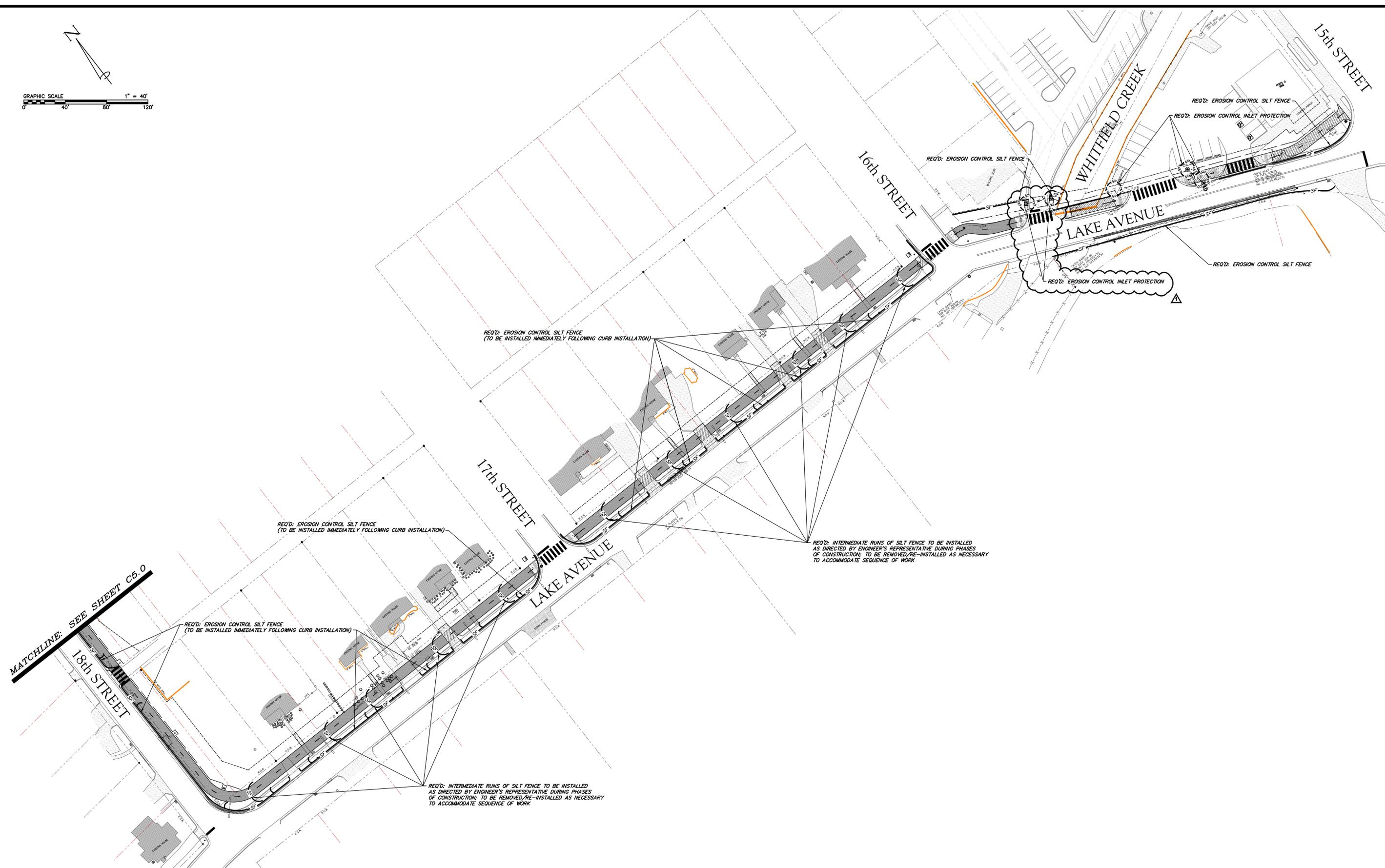
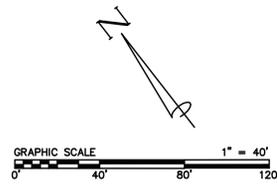
McGiffert
and Associates, LLC
— SINCE 1940 —
CIVIL ENGINEERS

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| REVISION | | |
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| DATE | DESCRIPTION | BY |
| 8/14/14 | ADDENDUM No. 2 | S W T |
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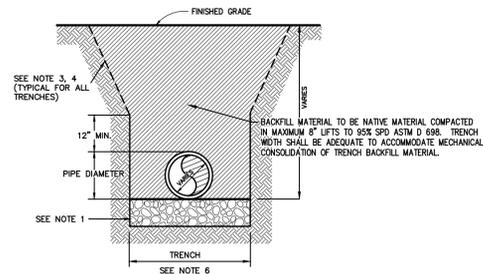
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| | | | |
|--|--------------------|-------------------|-----------|
| CITY OF TUSCALOOSA | | | |
| CITY WALK AT UNIVERSITY PLACE & FOREST LAKE | | | |
| CITY OF TUSCALOOSA PROJECT No. A12-1413 / A12-0993 | | | |
| EROSION CONTROL PLAN | | | |
| FILE NAME: COT-UPFL-Eros | SCALE: 1" = 40' | DWG. No. | SHEET No. |
| DATE OF FIELD SURVEY: 9-4-12 | FIELD BOOK: 1252-4 | 443-12 | C |
| JOB No. 13-2341 / 13-2342 | PAGE: 17-28 | CHECKED BY: W D M | |

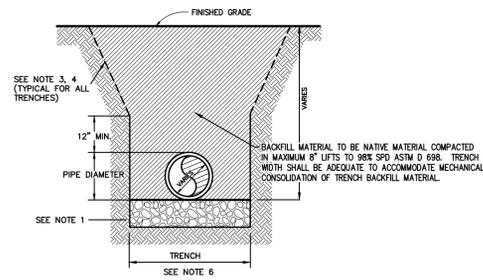


MATCHLINE: SEE SHEET C5.0

|  <p>McGiffert and Associates, LLC SINCE 1940 CIVIL ENGINEERS</p> <p>2814 STILLMAN BLVD. • P.O. BOX 20559 TUSCALOOSA, ALABAMA 35402-0559 WWW.MCGIFFERT.COM (205)759-1521 FAX (205)759-1524</p> | <p>REVISION</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>8/14/14</td> <td>ADDENDUM No. 2</td> <td>S W T</td> </tr> </tbody> </table> | | DATE | DESCRIPTION | BY | 8/14/14 | ADDENDUM No. 2 | S W T | <p>CITY OF TUSCALOOSA CITY WALK AT UNIVERSITY PLACE & FOREST LAKE CITY OF TUSCALOOSA PROJECT No. A12-1413 / A12-0993</p> | | | | | | |
|--|---|---|-----------|--------------------------|-----------------|----------|----------------|------------------------------|---|--------|-----|---------------------------|-------------|-------------------|--|
| | DATE | DESCRIPTION | BY | | | | | | | | | | | | |
| 8/14/14 | ADDENDUM No. 2 | S W T | | | | | | | | | | | | | |
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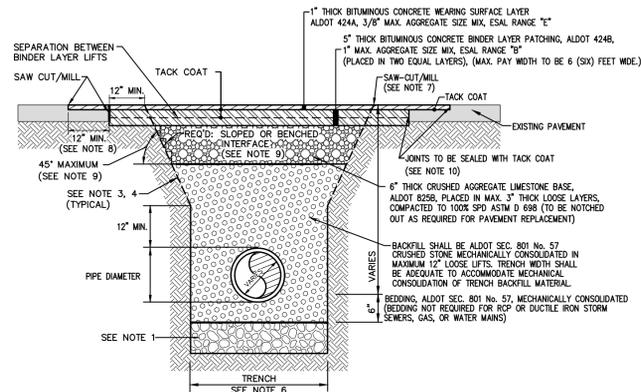


ALL AREAS NOT UNDER CONCRETE OR PAVED SURFACES

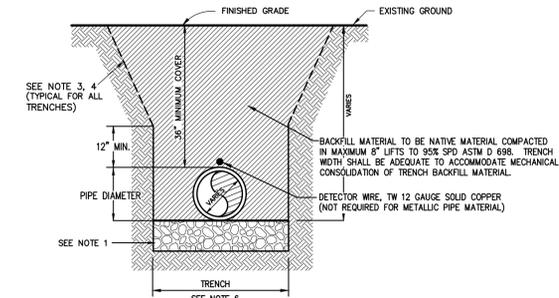


PROPOSED CONCRETE OR ASPHALT SURFACES

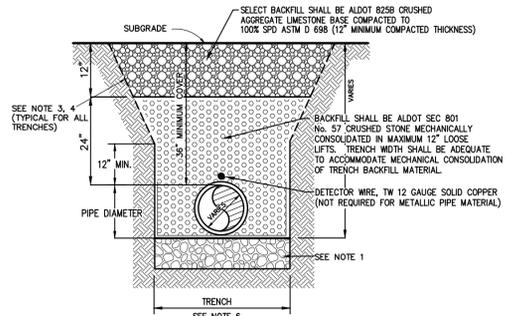
**STORM SEWER TRENCH DETAILS:
RCP OR DUCTILE IRON**



UTILITY TRENCH/PAVEMENT REPAIR DETAIL
EXISTING PAVED (ASPHALT OR CONCRETE) SURFACES

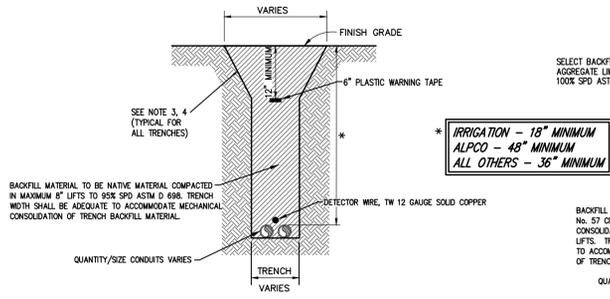


ALL AREAS NOT UNDER CONCRETE OR PAVED SURFACES

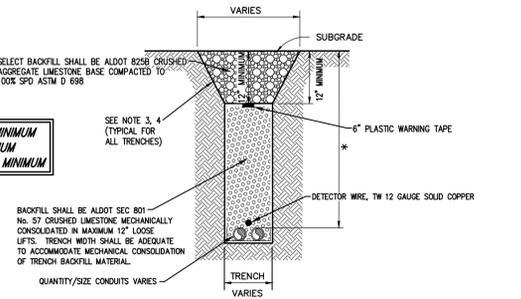


PROPOSED CONCRETE OR ASPHALT SURFACES

WATER MAIN TRENCH DETAILS



ALL AREAS NOT UNDER CONCRETE OR PAVED SURFACES

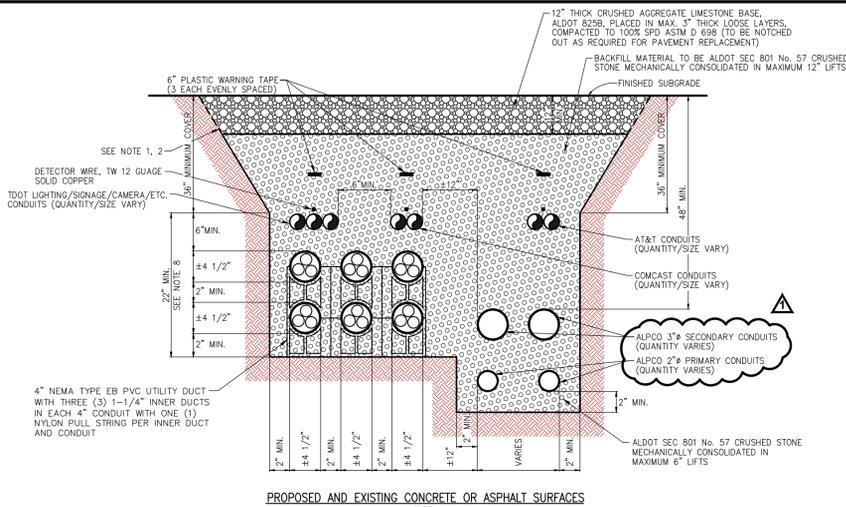


PROPOSED CONCRETE OR ASPHALT SURFACES

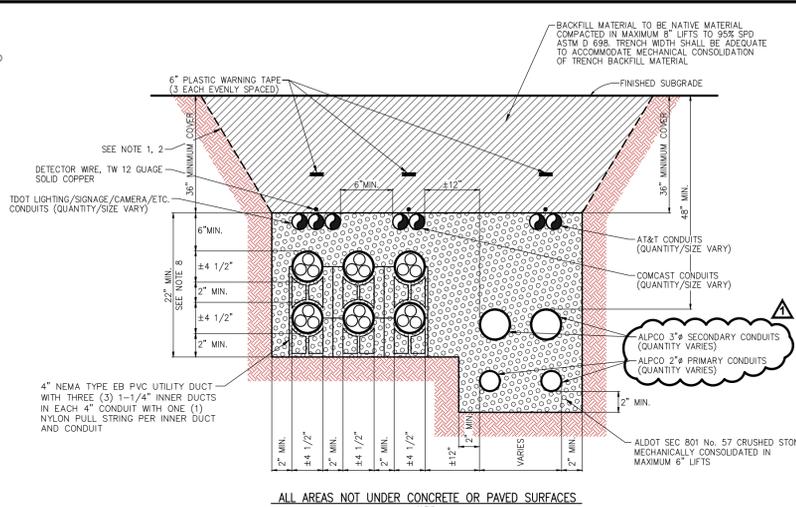
STAND-ALONE TDOT, ALPCO, AT&T, COMCAST, IRRIGATION, ELECTRICAL TRENCH DETAILS

TRENCH NOTES:

- TRENCH FOUNDATION REQUIRED ONLY WHEN EXISTING SOIL CONDITIONS ARE INADEQUATE FOR PROPER PIPE SUPPORT AS DETERMINED BY OWNER'S REPRESENTATIVE.
- ALL TRENCH BACKFILL OPERATIONS SHALL BE OBSERVED BY THE OWNER'S REPRESENTATIVE ON THE PROJECT. HOWEVER, THE PRESENCE OF THE OWNER'S REPRESENTATIVE SHALL NOT RELIEVE THE CONTRACTOR OF ANY REQUIREMENTS OR OBLIGATIONS ASSOCIATED WITH ALL UTILITY TRENCHES.
- ALL SLOPES SHALL CONFORM TO OSHA REQUIREMENTS. ADDITIONAL PROTECTIVE MEASURES MAY BE REQUIRED ABOVE AND BEYOND OSHA DEPENDING ON SPECIFIC TRENCH CONDITIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF WORKERS, THE GENERAL PUBLIC, AND OTHERS INVOLVED IN THE PROJECT AND SHALL PROVIDE SHEETING, BRACING, OR WHATEVER ACTION NECESSARY TO INSURE THE SAFETY OF PEOPLE, PROPERTY, AND STRUCTURES.
- THE LINES AND TRENCHES SHOWN ON THE TRENCH DETAILS ARE ONLY INTENDED TO DEFINE THE BACKFILL REQUIREMENTS AND THE MINIMUM DIMENSIONS FOR THE TRENCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO "LAY BACK" THE TRENCH WALLS TO WHATEVER FLATNESS OF SLOPE IS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS FOR THE PLACEMENT OF THE PIPE AND BEDDING.
- ALL UTILITY TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPD ASTM D 698 UNLESS OTHERWISE NOTED BY ABOVE DETAILS.
- THE WIDTH OF THE TRENCH AT THE TOP OF THE PIPE SHALL PERMIT THE PIPE TO BE LAID AND JOINED PROPERLY AND TO ALLOW THE BACKFILL TO BE PLACED AND COMPACTED IN ACCORDANCE WITH THE TRENCH DETAILS. AS A GUIDE, TRENCH WIDTHS SHOULD BE THE NOMINAL PIPE DIAMETER PLUS 24". WHEN REQUIRED, TRENCHES SHALL BE WIDER TO PERMIT THE PLACEMENT OF SUPPORTS, SHEETING, BRACING, ETC., AND OTHER APPURTENANCES AS REQUIRED BY THE SAFETY REQUIREMENTS OF OSHA.
- SAW-CUT/MILL LINE FOR INITIAL REMOVAL OF EXISTING MATERIAL AS REQUIRED FOR UTILITY INSTALLATION.
- SAW-CUT AND/OR MILL MINIMUM 12" WIDE BY 1-1/2" THICK PORTION OF EXISTING ASPHALT SURFACE FOLLOWING PLACEMENT OF BINDER LAYER. ACTUAL WIDTH OF SAW-CUT/MILL AREA SHALL BE SUFFICIENT TO PROVIDE MINIMUM OF 12" FROM ANY DAMAGED OR UNEVEN AREAS AS DETERMINED BY OWNER'S REPRESENTATIVE. FINISH EDGE OF MILLING SHALL PROVIDE NEAT, STRAIGHT APPEARANCE FOR FINAL WEARING SURFACE AS DETERMINED BY OWNER'S REPRESENTATIVE. EXISTING ADJACENT PAVEMENT SHALL NOT BE DISTURBED BY SAW-CUTTING/MILLING OPERATIONS.
- CONTRACTOR SHALL UTILIZE EITHER SLOPED PLANE OR BENCHED INTERFACE IN AREA OF PROPOSED CRUSHED AGGREGATE BASE COURSE IN ORDER TO PROPERLY TRANSFER LOAD FROM EXISTING AND REQUIRED SURFACES IN AREAS OF PAVEMENT REPAIRS. WHERE SLOPED PLANE SURFACE IS NOT OBTAINABLE BASED UPON MATERIAL CONDITIONS OR AS DIRECTED BY OWNER'S REPRESENTATIVE, A BENCHED SURFACE SHALL BE UTILIZED AS SHOWN ON DETAIL. THE SLOPED PLANE OR BENCHED SURFACE SHALL BE ON A MAXIMUM 45 DEGREE ANGLE AS SHOWN IN THE DETAIL. AREA OUTSIDE OF THE SLOPED PLANE OR BENCH SURFACE SHALL BE UNDISTURBED, WITH ANY AND ALL LOOSE OR UNSUITABLE MATERIAL REMOVED PRIOR TO PLACEMENT OF REQUIRED CRUSHED AGGREGATE BASE COURSE.
- ALL ASPHALT LAYERS AND JOINTS SHALL BE PROPERLY CLEANED BY ANY AND ALL MEANS NECESSARY PRIOR TO APPLICATION OF TACK COAT. NO LOOSE MATERIAL, DEBRIS, MOISTURE, ETC., SHALL BE ON SURFACE(S) WHEN TACK COAT APPLIED BETWEEN LAYERS OR AT JOINT(S).



PROPOSED AND EXISTING CONCRETE OR ASPHALT SURFACES

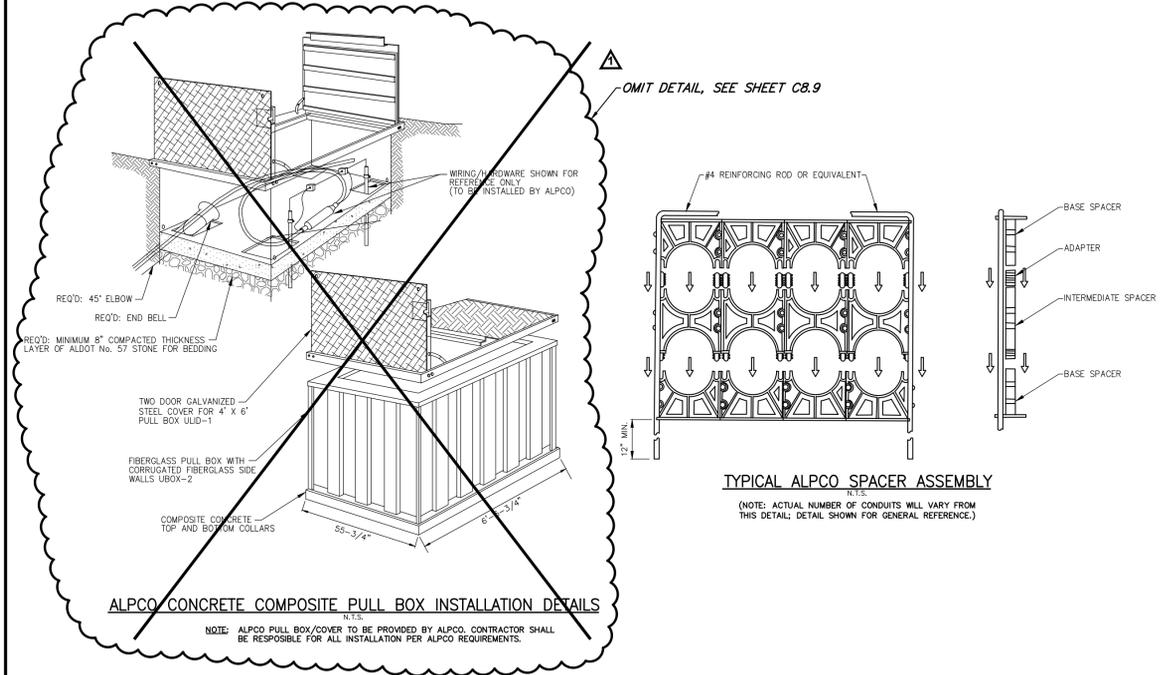


ALL AREAS NOT UNDER CONCRETE OR PAVED SURFACES

FIBER OPTIC DUCT BANK AND ELECTRICAL CONDUIT DETAIL

DUCT BANK NOTES:

- ALL SLOPES SHALL CONFORM TO OSHA REQUIREMENTS. ADDITIONAL PROTECTIVE MEASURES MAY BE REQUIRED ABOVE AND BEYOND OSHA DEPENDING ON SPECIFIC TRENCH CONDITIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF WORKERS, THE GENERAL PUBLIC, AND OTHERS INVOLVED IN THE PROJECT AND SHALL PROVIDE SHEETING, BRACING, OR WHATEVER ACTION NECESSARY TO INSURE THE SAFETY OF PEOPLE, PROPERTY, AND STRUCTURES.
- THE LINES AND TRENCHES SHOWN ON THE TRENCH DETAILS ARE ONLY INTENDED TO DEFINE THE BACKFILL REQUIREMENTS AND THE MINIMUM DIMENSIONS FOR THE TRENCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO "LAY BACK" THE TRENCH WALLS TO WHATEVER FLATNESS OF SLOPES NECESSARY TO PROVIDE SAFE WORKING CONDITIONS FOR THE PLACEMENT OF THE PIPE AND BEDDING.
- ALL UTILITY TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPD ASTM D 698 UNLESS OTHERWISE NOTED BY ABOVE DETAILS.
- SPACERS FOR ALPCO CONDUITS WILL BE PROVIDED BY ALPCO, INSTALLED BY CONTRACTOR. SPACERS SHALL BE INSTALLED AS REQUIRED BY ALPCO. SPACERS FOR ALL OTHER DUCT BANK CONDUIT(S) TO BE PLASTIC CARLON SNAP-LOG, OR APPROVED EQUAL, TO SUPPORT DUCT SPACING AS INDICATED. SPACER SEPARATION TO BE A MAXIMUM OF 4 FEET AND FASTENED SECURELY TO PREVENT DUCT FROM BEING DISLODGED AND/OR TWISTING DURING BACKFILL/COMPACTION OF TRENCH. TWISTING OF CONDUITS DURING INSTALLATION SHALL NOT BE ACCEPTABLE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND EXPOSING ALL EXISTING UTILITIES PRIOR TO INSTALLING DUCT BANK IN ORDER TO DETERMINE AREAS WHERE THE DEPTH OF THE DUCT BANK WILL NEED TO BE ADJUSTED TO AVOID ABRUPT DIRECTIONAL CHANGES IN VERTICAL ALIGNMENT AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL ANTICIPATE THAT DUCT BANK MAY BE REQUIRED TO BE INSTALLED BENEATH EXISTING/PROPOSED UTILITIES. CONTRACTOR SHALL COORDINATE DEPTH CHANGES WITH ENGINEER PRIOR TO PLACEMENT OF CONDUIT.
- DEPTH OF DUCT BANK INSTALLATION MAY BE REQUIRED TO INCREASE DUE TO DUCT CONNECTION AT VAULTS, OR VERTICAL TRANSITIONS DUE TO RADIUS OF ELBOWS.
- PULL CORD SHALL BE INSTALLED IN EACH SEPARATE CONDUIT AND INNER DUCT. PULL CORD SHALL BE POLYOLEFIN PULL LINE WITH A MINIMUM 200 LB. TENSILE STRENGTH.
- MAXIMUM PAY LIMITS FOR CRUSHED STONE BACKFILL ABOVE THE DUCT BANK DESIGNATED 22" DEPTH SHALL BE 36" WIDE BY 12" THICK (COMPACTED) FOR TOP LAYER (8258) AND 36" WIDE BY 24" THICK (COMPACTED) FOR THE LOWER LAYER (No. 57). ALL BACKFILL BELOW SUCH DUCT BANK LIMITS SHALL BE INCIDENTAL TO THE DUCT BANK.
- ALL CONDUIT DIAMETER SIZES SPECIFIED ARE INSIDE MINIMUM DIAMETERS.
- ALPCO, AT&T, COMCAST CONDUITS SHALL BE SCHEDULE 40 PVC, SHALL MEET REQUIREMENTS OF NEMA TC-2, ANDS/VL651, AND SHALL BE COMPATIBLE WITH BELOW GROUND INSTALLATION.
- ALL CONDUIT BENDS SHALL BE FORMED WITH LONG ELBOW BENDS WITH A MINIMUM RADIUS OF 36".

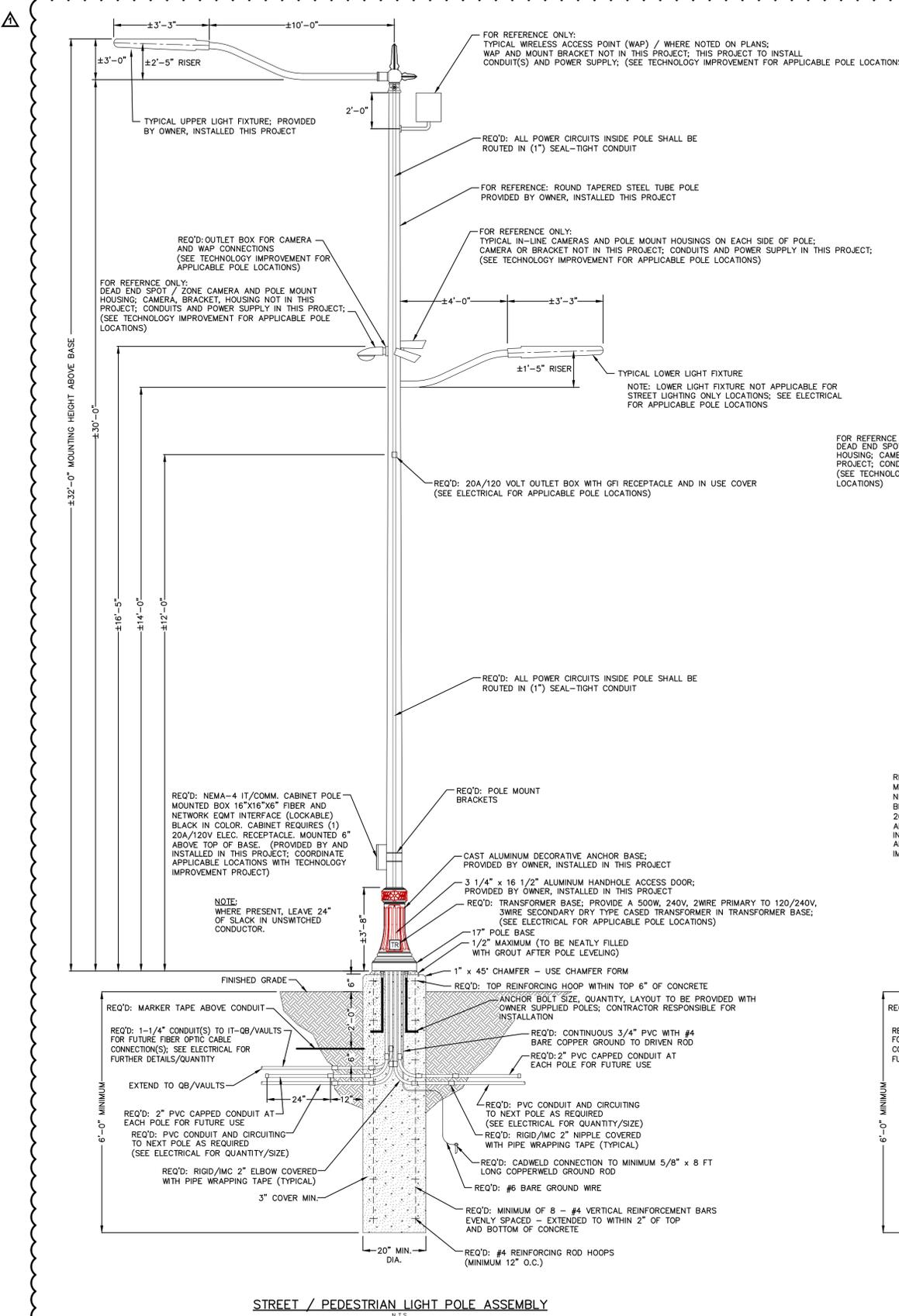


ALPCO CONCRETE COMPOSITE PULL BOX INSTALLATION DETAILS

NOTE: ALPCO PULL BOX/COVER TO BE PROVIDED BY ALPCO. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION PER ALPCO REQUIREMENTS.

| <p>2814 STILLMAN BLVD., P.O. BOX 20559 TUSCALOOSA, ALABAMA 35402-0559 WWW.MCGIFFERT.COM (205)759-1521 FAX (205)759-1524</p> | | | <p>REVISION</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>8/14/14</td> <td>ADDENDUM No. 2</td> <td>S W T</td> </tr> </tbody> </table> | DATE | DESCRIPTION | BY | 8/14/14 | ADDENDUM No. 2 | S W T | <p>CITY OF TUSCALOOSA CITY WALK AT UNIVERSITY PLACE & FOREST LAKE CITY OF TUSCALOOSA PROJECT No. A12-1413 / A12-0993</p> <p>STANDARD DETAILS</p> <p>FILE NAME: COT-UPFL-Det DATE OF FIELD SURVEY: 9-4-12 JOB No. 13-2341 / 13-2342</p> <p>SCALE: N.T.S. DRAWN BY: S W T CHECKED BY: W D M</p> <p>DWG. No. 443-12 SHEET No. C8</p> |
|---|----------------|-------|--|------|-------------|----|---------|----------------|-------|---|
| DATE | DESCRIPTION | BY | | | | | | | | |
| 8/14/14 | ADDENDUM No. 2 | S W T | | | | | | | | |

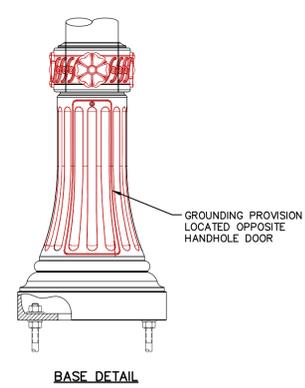
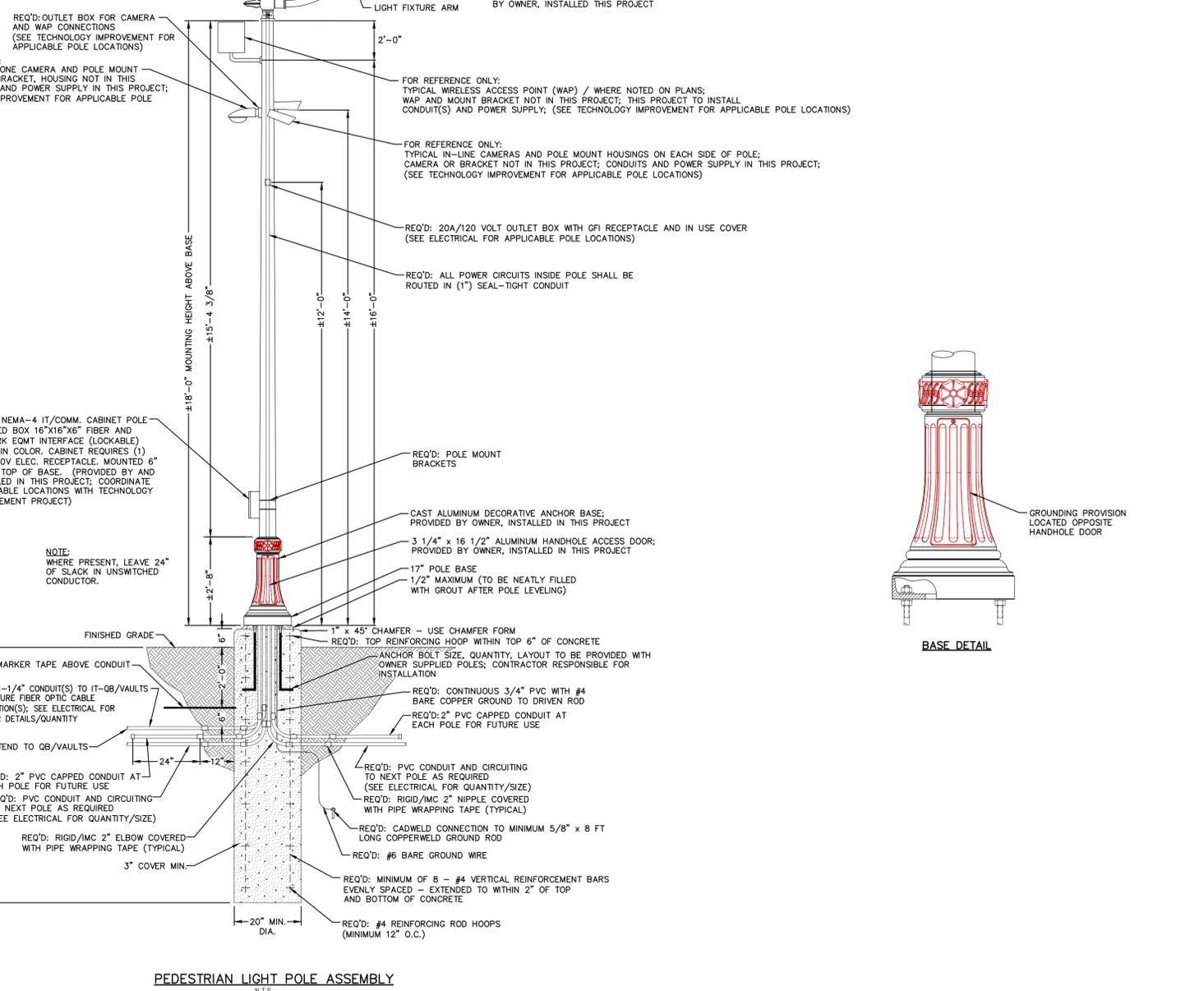
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- NOTES
1. LIGHT POLES, LIGHT FIXTURE, LIGHT FIXTURE ARMS, ARM CASTINGS, DECORATIVE POLE BASE COVERS, ANCHOR BOLTS, AND ALL ASSOCIATED APURTENANCES ARE SUPPLIED BY THE CITY. DETAILS AND DIAGRAMS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE. ALL SHALL BE INSTALLED BY THE CONTRACTOR IN THIS PROJECT.
 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY OF COORDINATING THE INSTALLATION OF THE POLE BASE WITH ALL OTHER UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO, ELECTRICAL DUCT BANKS, CONDUITS FOR SITE LIGHTING, IRRIGATION, WATER MAINS, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SUCH UNDERGROUND UTILITIES ARE INSTALLED IN SUCH A MANNER TO NOT INTERFERE WITH POLE BASE INSTALLATION OR LOCATIONS. ANY NECESSARY MODIFICATIONS TO POLE BASES OR UNDERGROUND UTILITIES INSTALLED BY THE CONTRACTOR SHALL BE AT THE COSTS OF THE CONTRACTOR.
 3. MINIMUM CONCRETE COMPRESSIVE STRENGTH = 3000 PSI @ 28 DAYS.
 4. POLE BASE TO BE CAST AGAINST UNDISTURBED EARTHEN MATERIAL.
 5. REINFORCING STEEL TO MEET ASTM A615 GRADE 60 REQUIREMENTS.

| POLE LOADING INFORMATION | | | | | | |
|--------------------------|---|---------------|---------------------------|---------------|---------------------------|---------------|
| QTY | 18 FOOT POLE W/SINGLE ARM | WEIGHT (lbs.) | 30 FOOT POLE W/DOUBLE ARM | WEIGHT (lbs.) | 30 FOOT POLE W/SINGLE ARM | WEIGHT (lbs.) |
| 0 | 18' POLE | 109 | 30' POLE | 180 | 30' POLE | 180 |
| 1 | 4' ARM | 13 | | 13 | | - |
| 1 | 10' ARM (RANGE: 37-50 lbs.) ?? | - | | 50 | | 50 |
| 1 | LED 140-WATT (PEDESTRIAN) - COPPER NAVION | 26 | | 26 | | - |
| 1 | LED 250-WATT (STREET) - COPPER NAVION | - | | 36 | | 36 |
| 1 | WIRELESS ACCESS POINT (WAP) - MOTOROLA 7181 | 39 | | 39 | | 39 |
| 1 | CAMERA: AXIS Q1755 (PRIMARY) | 8 | | 8 | | 8 |
| 1 | CAMERA: MOBOTIX - D15 (BLIND SPOT) | 2 | | 2 | | 2 |
| 1 | COMM. BOX | 60 | | 60 | | 60 |
| | TOTAL | 257 | | 414 | | 375 |

NOTES: ALUM. POLE, AND ARM FOR REFERENCE ONLY



STREET / PEDESTRIAN LIGHT POLE ASSEMBLY

PEDESTRIAN LIGHT POLE ASSEMBLY

2814 STILLMAN BLVD. • P.O. BOX 20559
TUSCALOOSA, ALABAMA 35402-0559
WWW.MCGIFFERT.COM (205)759-1521 FAX (205)759-1524

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| DATE | DESCRIPTION | BY |
| 8/14/14 | ADDENDUM No. 2 | S W T |

CITY OF TUSCALOOSA
CITY WALK AT UNIVERSITY PLACE & FOREST LAKE
CITY OF TUSCALOOSA PROJECT No. A12-1413 / A12-0993

STANDARD DETAILS

FILE NAME: COT-UPFL-Det
DATE OF FIELD SURVEY: 9-4-12
JOB No. 13-2341 / 13-2342

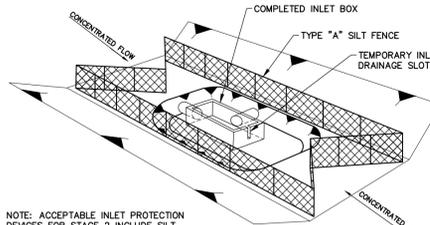
SCALE: N.T.S.
DRAWN BY: S W T
CHECKED BY: W D M

DWG. No. 443-12
SHEET No. C8

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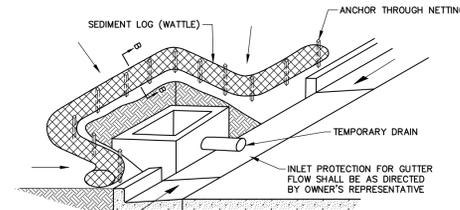
INLET PROTECTION CONSTRUCTION STAGES NOTES:

- 1. INLET PROTECTION**
 - INLET PROTECTION SHALL BE INSTALLED AT LOCATIONS AND IN ACCORDANCE WITH REQUIREMENTS SHOWN ON THE PLANS FOR THE APPROPRIATE STAGES OF CONSTRUCTION OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. APPROVED MANUFACTURED PRODUCTS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. SITE CONSTRUCTED PROTECTION MAY INCLUDE WATTLE, SILT FENCE, OR OTHER PRACTICES NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - STAGE 1 INLET PROTECTION SHALL BE INSTALLED AFTER THE OUTFLOW DRAINAGE HAS BEEN INSTALLED AND PRIOR TO THE CONSTRUCTION OF THE INLET.
 - STAGE 2 INLET PROTECTION SHALL BE INSTALLED AFTER THE INLET IS CONSTRUCTED AND PRIOR TO BACKFILLING.
 - STAGE 3 INLET PROTECTION SHALL BE INSTALLED AFTER THE BACKFILLING IS COMPLETED AROUND THE INLET STRUCTURE.
 - STAGE 4 PROTECTION IS REQUIRED AFTER INLETS ARE COMPLETE BUT PRIOR TO FINAL STABILIZATION OF THE AREA SURROUNDING THE INLET. STAGE 4 INLET PROTECTION FOR DROP INLETS SHALL BE IN ACCORDANCE WITH REQUIREMENTS AND DETAILS SHOWN ON THE PLANS. ACCEPTABLE PROTECTION MAY BE CONSTRUCTED WITH MANUFACTURED INLET DEVICES, OR WATTLES.
 - ALL INLET PROTECTION INSTALLATIONS SHALL BE CONSTRUCTED TO ENSURE THAT RUNOFF DOES NOT BYPASS THE INLET.
- INLET CONSTRUCTION SHOULD COMMENCE AS SOON AS POSSIBLE AND BE CONTINUOUS THROUGH COMPLETION OF THE PROJECT.
- CONFIGURATIONS MAY BE ADJUSTED BECAUSE OF WATER FLOW, SOIL, OR INSTALLATION CHALLENGES, WITH APPROVAL OF THE OWNER'S REPRESENTATIVE.
- DURING STAGE 1 AND STAGE 2, SILT FENCE MAY BE REQUIRED UPSLOPE OF THE INLET EXCAVATION AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- IF SILT FENCING IS INSTALLED AROUND THE INLET EXCAVATION, IT SHOULD BE PLACED IN A CONFIGURATION THAT WILL ALLOW INLET CONSTRUCTION.
- PAYMENT FOR ITEMS USED TO CONSTRUCT STAGE 1, STAGE 2, STAGE 3, AND STAGE 4 INLET PROTECTIONS WILL BE MEASURED FOR PAYMENT APPROPRIATELY AS PER UNIT PRICE BID SCHEDULE, I.E., SILT FENCE, WATTLES, ETC. PAYMENT SHALL INCLUDE ALL MAINTENANCE, REPLACEMENT, REPAIR, ETC.



NOTE: ACCEPTABLE INLET PROTECTION DEVICES FOR STAGE 2 INCLUDE SILT FENCE. HAY BALE PROTECTION NOT ACCEPTABLE THIS PHASE.

INLET BOX CONSTRUCTED BUT NOT BACKFILLED



NOTE: TYPE "A" SILT FENCE MAY ALSO BE USED FOR THIS APPLICATION. HAY BALES NOT ACCEPTABLE DURING THIS STAGE.

CURB INLET PROTECTION

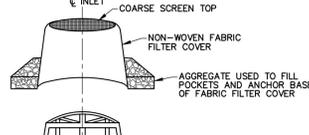
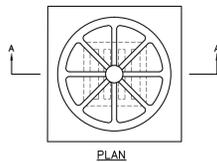
STAGE 1 AND 2 NOTES:

- ACCEPTABLE INLET PROTECTION DEVICES FOR STAGE 2 INCLUDE SILT FENCE. HAY BALE PROTECTION IS NOT ACCEPTABLE FOR THIS PHASE.
- REMOVE SEDIMENT DEPOSITS WHEN THEY REACH A DEPTH OF 15" OR 1/2 THE HEIGHT OF THE FENCE AS INSTALLED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN EVENT AND TO REDUCE PRESSURE ON THE FENCE.
- SHOULD THE SILT FENCE BECOME DAMAGED OR OTHERWISE INEFFECTIVE WHILE THE INLET PROTECTION IS STILL NECESSARY, IT SHALL BE REPAIRED PROMPTLY WITH A NEW SECTION OF FILTER OVERLAPPING A MINIMUM OF 12 INCHES ON EACH SIDE OF A BREAK.

MANUFACTURED DEVICE INLET PROTECTION DETAILS

STAGE 3 NOTES:

- FRAMES WITH EITHER SQUARE OR CIRCULAR BASES MAY BE USED. SELECTED FRAME BASE SHOULD PROVIDE BEST SEAL AROUND INLET AS DIRECTED BY OWNER'S REPRESENTATIVE.
- FILL POCKETS AROUND BASE OF FILTER COVER WITH ALDOT #57 STONE OR SOIL. STONE IS REQUIRED WHEN ANCHORING THE MANUFACTURED INLET PROTECTION DEVICE OVER PAVED DITCH OR FLUME.
- USE ONLY DURING STAGE 3 AND 4 INLET CONSTRUCTION.
- REMOVE SEDIMENT FROM AROUND THE MANUFACTURED INLET PROTECTION DEVICE WHEN SEDIMENT HAS REACHED 1/2 THE FABRIC HEIGHT TAKING CARE NOT TO DAMAGE THE FABRIC DURING SEDIMENT REMOVAL.
- REPLACE FABRIC WHEN DAMAGED OR BECOMES CLOGGED WITH SEDIMENT AND DOES NOT DRAIN PROPERLY.

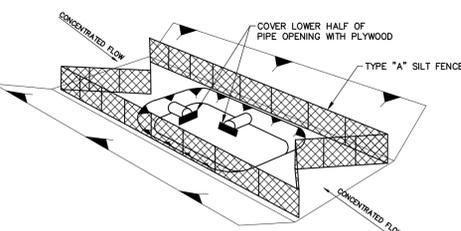


SECTION A-A

STAGE 3 NOTES:

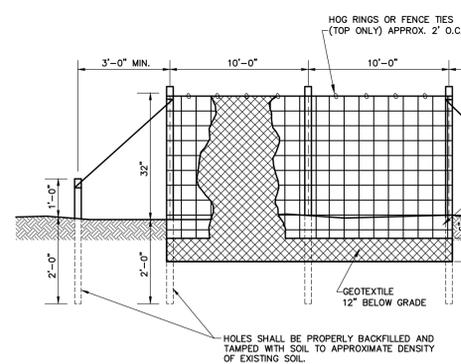
- FRAMES WITH EITHER SQUARE OR CIRCULAR BASES MAY BE USED. SELECTED FRAME BASE SHOULD PROVIDE BEST SEAL AROUND INLET AS DIRECTED BY OWNER'S REPRESENTATIVE.
- FILL POCKETS AROUND BASE OF FILTER COVER WITH ALDOT #57 STONE OR SOIL. STONE IS REQUIRED WHEN ANCHORING THE MANUFACTURED INLET PROTECTION DEVICE OVER PAVED DITCH OR FLUME.
- USE ONLY DURING STAGE 3 AND 4 INLET CONSTRUCTION.
- REMOVE SEDIMENT FROM AROUND THE MANUFACTURED INLET PROTECTION DEVICE WHEN SEDIMENT HAS REACHED 1/2 THE FABRIC HEIGHT TAKING CARE NOT TO DAMAGE THE FABRIC DURING SEDIMENT REMOVAL.
- REPLACE FABRIC WHEN DAMAGED OR BECOMES CLOGGED WITH SEDIMENT AND DOES NOT DRAIN PROPERLY.

STAGE 3



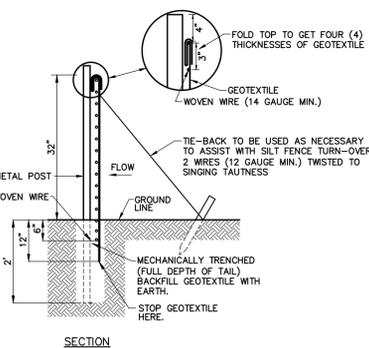
INLET BOX LOCATION EXCAVATED

STAGE 1



ELEVATION

TYPE "A" SILT FENCE DETAIL

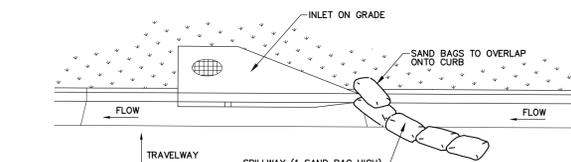


SECTION

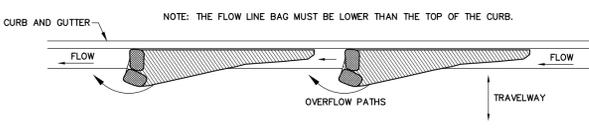
SECTION

GENERAL NOTES:

- SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE ERRECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS, CHANNELS, STREETS, CURBS, ETC.
- SILT FENCE SHOULD BE PLACED WELL INSIDE CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST BECOMES FULL. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION.
- WHEREVER POSSIBLE, SILT FENCES SHALL BE CONSTRUCTED ACROSS A FLAT AREA IN THE SHAPE OF A HORSESHOE. THIS AID IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
- SILT FENCE SHALL BE FASTENED TO UPSTREAM SIDE OF POST & WIRE BY HOG RINGS OR FENCE TIES. (17 GAUGE MIN.)
- REMOVE SEDIMENT DEPOSITS WHEN THEY REACH A DEPTH OF 15" OR 1/2 THE HEIGHT OF THE FENCE AS INSTALLED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN EVENT AND TO REDUCE PRESSURE ON THE FENCE.
- SHOULD THE SILT FENCE BECOME DAMAGED OR OTHERWISE INEFFECTIVE WHILE THE BARRIER IS STILL NECESSARY, IT SHALL BE REPAIRED PROMPTLY WITH A NEW SECTION OF FILTER OVERLAPPING A MINIMUM OF 12 INCHES ON EACH SIDE OF A BREAK.
- AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.



TYPICAL (SAND BAG) PROTECTION FOR INLET ON GRADE

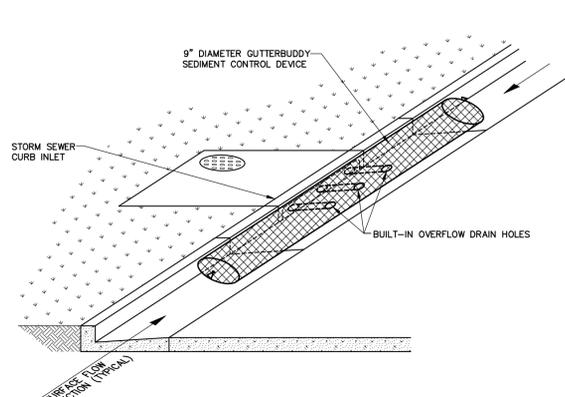


CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM

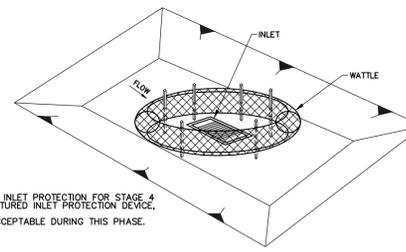
CURB INLET PROTECTION NOTES:

- THIS CURB INLET PROTECTION METHOD CAN BE USED DURING ANY STAGE OF BASE AND PAVEMENT CONSTRUCTION OR FOR EXISTING CURB INLETS.
- BAG HEIGHT AND NUMBER OF BAGS SHOULD BE BASED ON CURB HEIGHT AND USE OF TRAVELWAY OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- SEDIMENT SHOULD BE CONTROLLED PRIOR TO ENTERING GUTTER. GUTTER CHECKS AND INLET PROTECTION ARE FOR SECONDARY CONTROL.
- REMOVE ACCUMULATED SEDIMENT AFTER EVERY RAINFALL. SWEEP SEDIMENT FROM HARD SURFACES AND DISPOSE OF APPROPRIATELY AWAY FROM INLETS AND/OR WATER BODIES.
- IF DENuded AREAS EXIST BEHIND THE INLET, A SEDIMENT BARRIER SHOULD BE INSTALLED AROUND ITS PERIMETER TO CONTROL SEDIMENT.

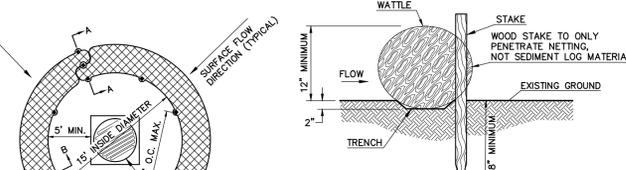
SAND BAG INLET PROTECTION DETAILS



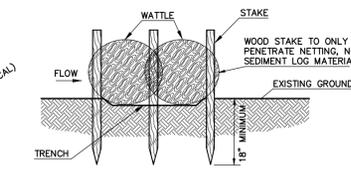
MANUFACTURED CURB INLET PROTECTION (EXISTING INLET)



INLET CONSTRUCTED & BACKFILLED WITH FINAL GRADING OPERATIONS COMPLETED OR IN PROGRESS



WATTLE INSTALLATION DETAIL (SECTION B-B)

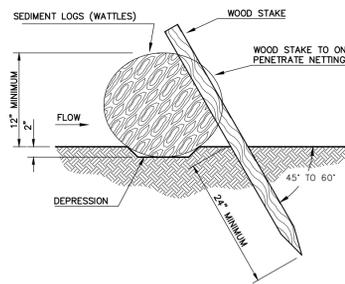


SECTION A-A

STAGE 4 NOTES:

- ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
- OVERLAP ENDS OF WATTLES PER MANUFACTURER'S RECOMMENDATIONS (1' MIN., 3' MAX.)
- TRENCHING OF WATTLES SHALL BE REQUIRED TO AVOID PIPING.
- SEDIMENT DEPOSITS MUST BE REMOVED AND STABILIZED WHEN THEY REACH A DEPTH OF 1/2 THE HEIGHT OF THE WATTLE TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN EVENT.
- WORN, DAMAGED, OR ROTTEN WATTLES MUST BE REPLACED.

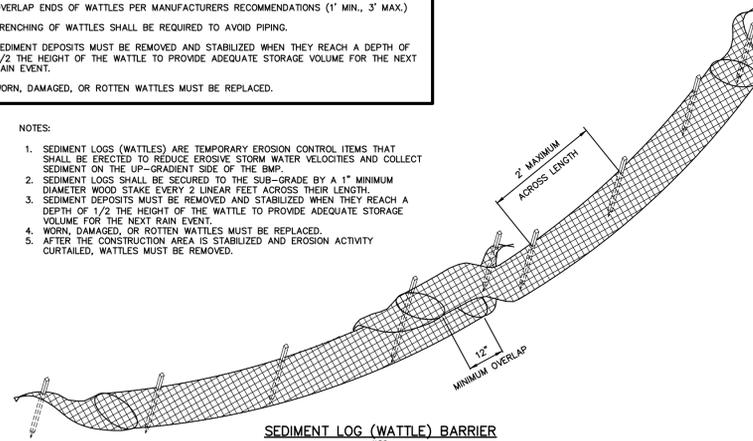
STAGE 4



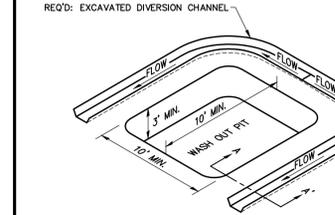
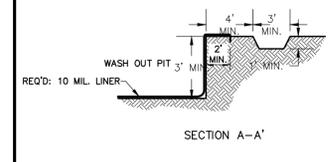
SEDIMENT LOG (WATTLE) BARRIER INSTALLATION DETAIL

NOTES:

- SEDIMENT LOGS (WATTLES) ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE ERRECTED TO REDUCE ERODIVE STORM WATER VELOCITIES AND COLLECT SEDIMENT ON THE UP-GRADE SIDE OF THE BMP.
- SEDIMENT LOGS SHALL BE SECURED TO THE SUB-GRADE BY A 1" MINIMUM DIAMETER WOOD STAKE EVERY 2' LINEAR FEET ACROSS THEIR LENGTH.
- SEDIMENT DEPOSITS MUST BE REMOVED AND STABILIZED WHEN THEY REACH A DEPTH OF 1/2 THE HEIGHT OF THE WATTLE TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN EVENT.
- WORN, DAMAGED, OR ROTTEN WATTLES MUST BE REPLACED.
- AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, WATTLES MUST BE REMOVED.



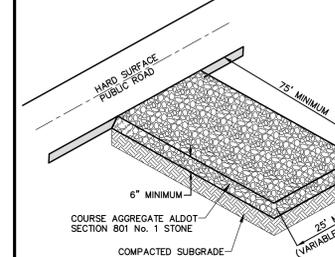
SEDIMENT LOG (WATTLE) BARRIER



TYPICAL CONCRETE WASH OUT PIT

NOTES:

- CONTRACTOR SHALL MAINTAIN A 1 FOOT MINIMUM FREEBOARD OF CAPACITY AT ALL TIMES.
- STORM WATER RUNOFF SHALL BE DIVERTED AROUND THE CONTAINMENT AREA WITH EXCAVATED DIVERSION CHANNEL.
- TO AVOID OVERFLOWS, THE WASH WATER SHOULD BE VACUUMED OFF AND RECYCLED OR ALLOWED TO EVAPORATE WHEN THE PIT IS FILLED TO OVER 75 PERCENT OF ITS CAPACITY. THE REMAINING CEMENTITIOUS SOLIDS SHOULD BE REMOVED AND RECYCLED AFTER HARDENING.
- PRIOR TO ANTICIPATED RAIN EVENTS, THE WASH OUT CONTAINER'S LIQUID LEVEL SHOULD BE LOWERED OR THE CONTAINER SHOULD BE COVERED TO AVOID AN OVERFLOW.
- DAMAGES TO THE LINER SHALL BE REPAIRED PROMPTLY OR LINER REPLACED IF NO LONGER EFFECTIVE.



NOTES:

- WIDTH SHALL BE 25 FEET MINIMUM BUT MAY BE ADJUSTED TO EQUAL FULL WIDTH OF VEHICULAR EGRESS.
- A CLASS IV NON-WOVEN GEOTEXTILE MEETING THE REQUIREMENTS SHOWN IN TABLE CEP-1 OF THE ALABAMA HANDBOOK SHOULD BE USED UNDER RACK WHEN SUBGRADE IS SOFT & WILL NOT SUPPORT TRAFFIC WHEN WET.
- REMOVE LARGE CHUNKS OF MUD OR SOIL FROM EXIT PAD DAILY.
- TOP-DRESS WITH CLEAN STONE AS NEEDED TO MAINTAIN EFFECTIVENESS.

CONSTRUCTION EXIT PAD

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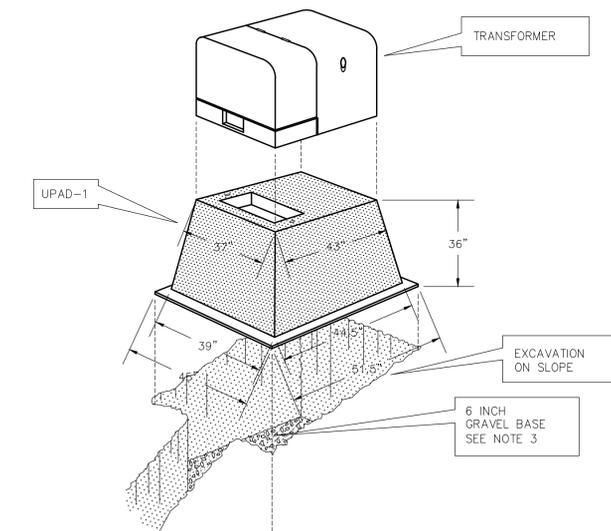
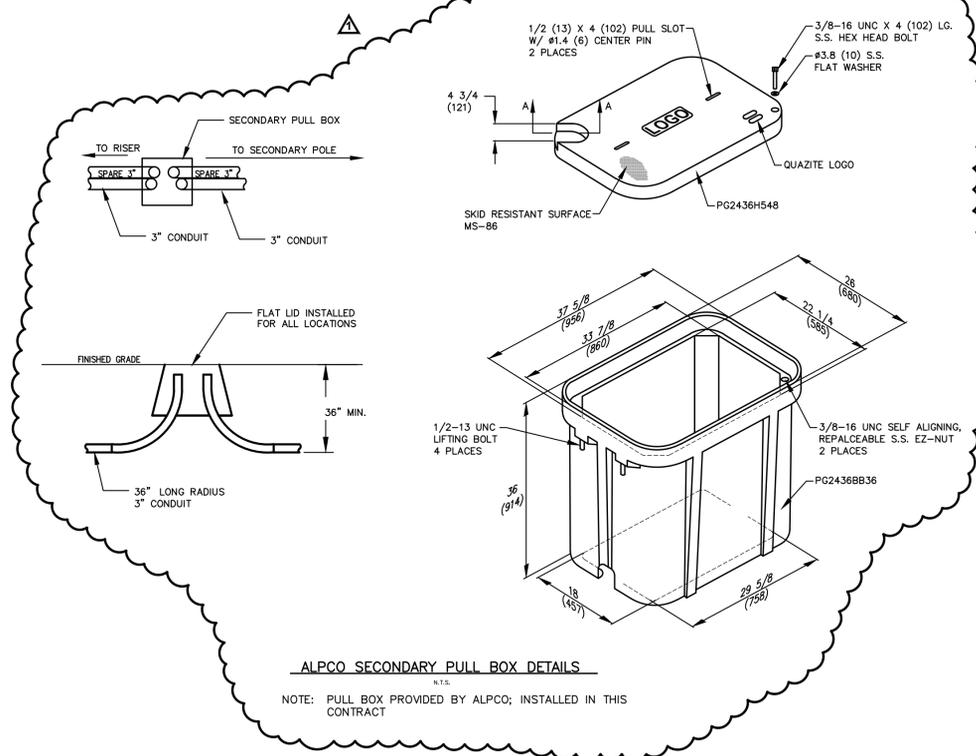
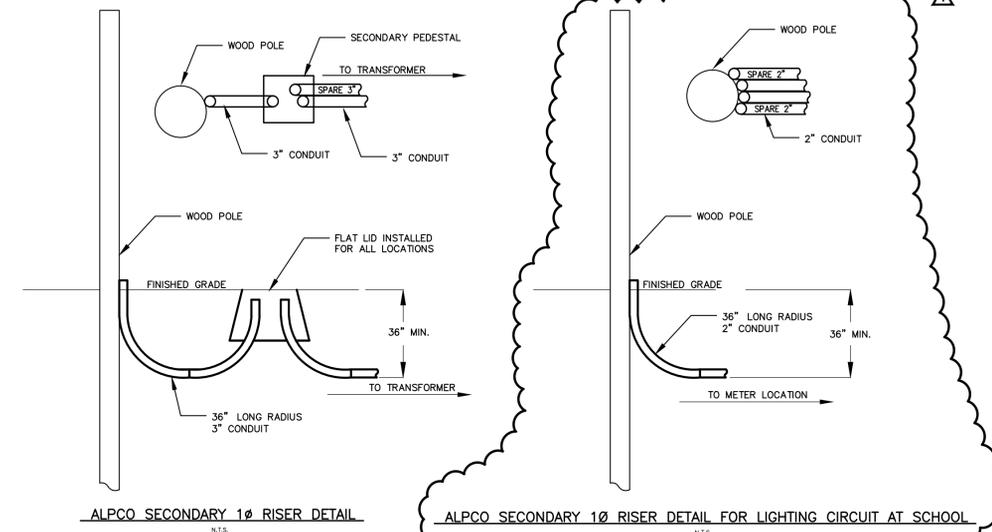
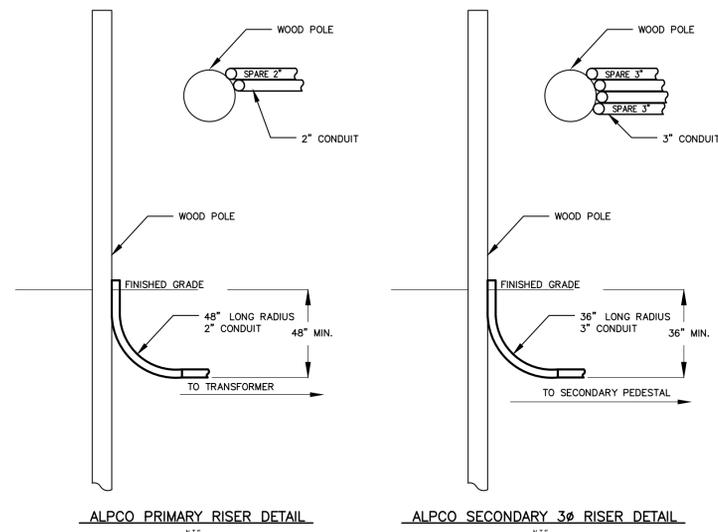
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CITY OF TUSCALOOSA
CITY WALK AT UNIVERSITY PLACE & FOREST LAKE
CITY OF TUSCALOOSA PROJECT No. A12-1413 / A12-0993
STANDARD DETAILS

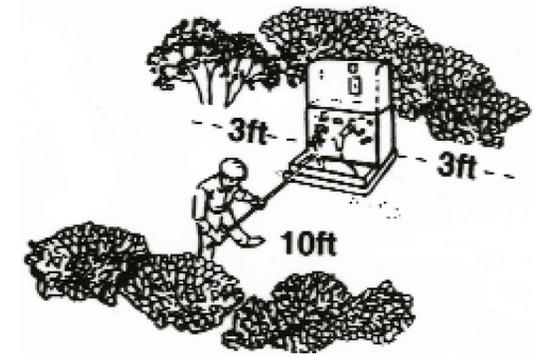
FILE NAME: COT-UPFL-Det
DATE OF FIELD SURVEY: 9-4-12
JOB No. 13-2341 / 13-2342

SCALE: N.T.S.
DRAWN BY: S W T
CHECKED BY: W D M

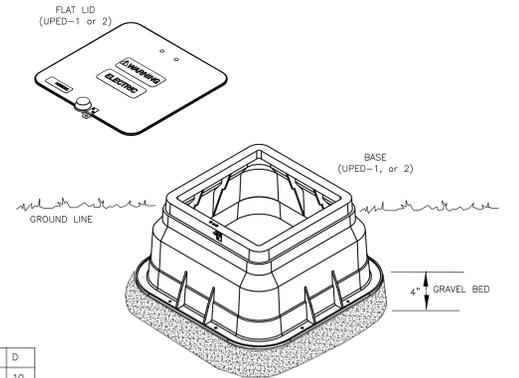
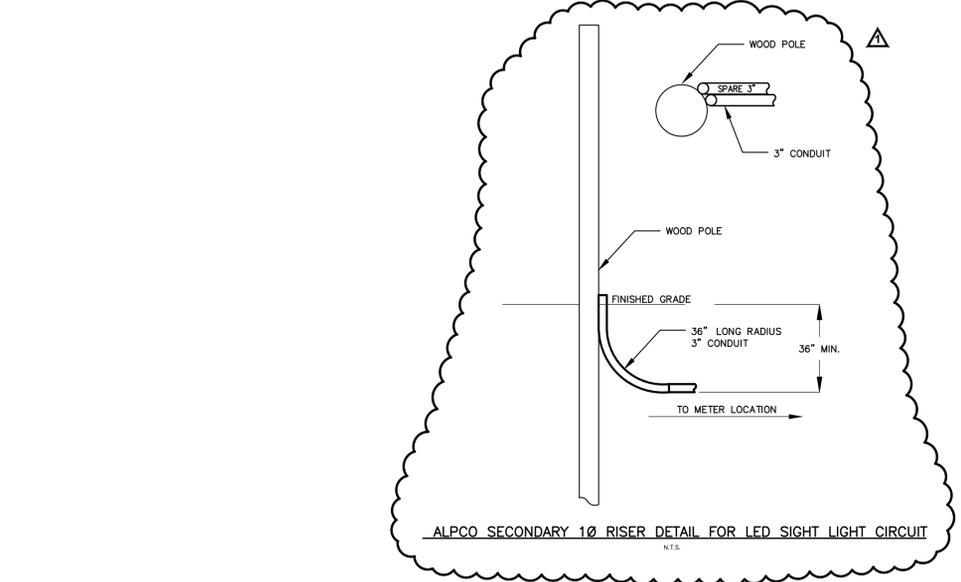
DWG. No. 443-12
SHEET No. C8



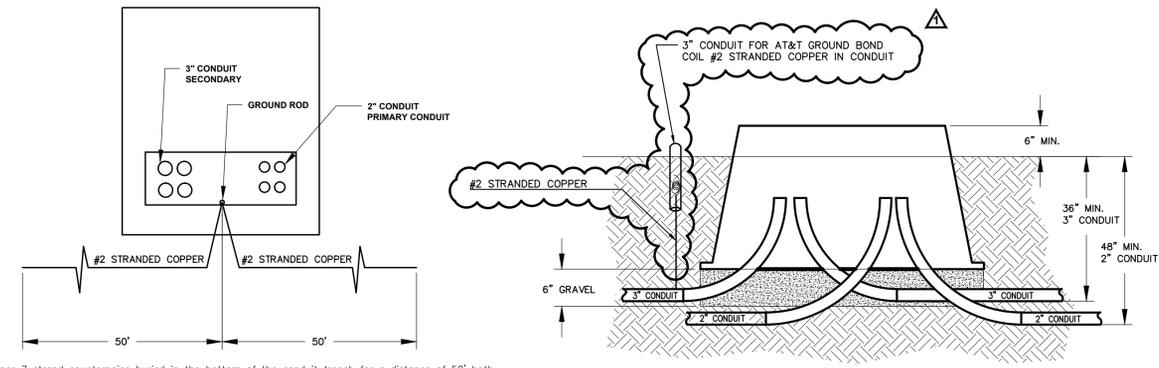
- NOTES:
1. Bottom of box pad excavation should be level.
 2. Maximum depth of excavation should not exceed height of box pad.
 3. Not less than of 6 inches of gravel, sand or crushed stone base fill that is placed on well compacted earth should be provided for proper drainage.
 4. Backfill around box pad shall be compacted by tamping in 6 inch layers.



ALPCO SINGLE PHASE TRANSFORMER BOX PAD
N.T.S.

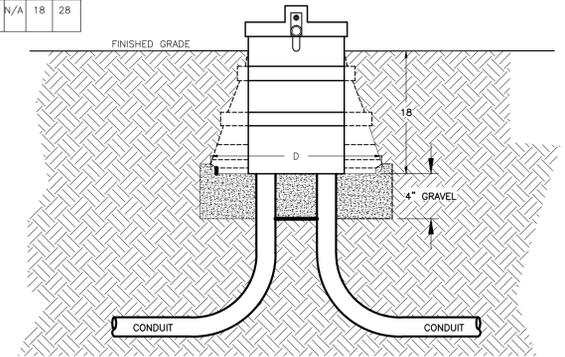


| TYPE | SIZE | A | B | C | D |
|-------|-------|-----|-----|----|----|
| UPED1 | 9x10 | N/A | N/A | 18 | 10 |
| UPED2 | 10x14 | N/A | N/A | 18 | 14 |
| UPED3 | 10x14 | N/A | N/A | 18 | 28 |



#2 Copper 7 strand counterpoise buried in the bottom of the conduit trench for a distance of 50' both sides of the transformer pad. #2 Stranded Copper and ground rod provided by Alabama Power Company.

ALPCO PAD MOUNT TRANSFORMER CONDUIT PLACEMENT AND COUNTERPOISE DETAIL
N.T.S.



ALPCO SECONDARY PEDESTAL INSTALLATION DETAIL
NOTE: PEDESTAL BOX PROVIDED BY ALPCO; INSTALLED IN THIS CONTRACT

McGiffert and Associates, LLC
CIVIL ENGINEERS
2814 STILLMAN BLVD. • P.O. BOX 20559
TUSCALOOSA, ALABAMA 35402-0559
WWW.MCGIFFERT.COM (205)759-1521 FAX (205)759-1524

| REVISION | | |
|----------|----------------|-------|
| DATE | DESCRIPTION | BY |
| 8/14/14 | ADDENDUM No. 2 | S W T |

CITY OF TUSCALOOSA
CITY WALK AT UNIVERSITY PLACE & FOREST LAKE
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SCALE: N.T.S.
DRAWN BY: S W T
CHECKED BY: W D M

DWG. No. **443-12** SHEET No. **C8.9**