ADDENDUM NO. 1 – JOB 090580

ARKANSAS DEPARTMENT OF TRANSPORTATION

PROGRAM MANAGEMENT DIVISION

LITTLE ROCK, ARKANSAS

June 12, 2024

TO: Eligible Bidders – Job 090580

SUBJECT: Plan and Proposal Documents Change

Plan Sheet 1 has been revised to correct the total number of sheets, and Plan Sheet 3 has been revised to match the Supplemental Specifications and Special Provisions Listing. Additionally, Section 000001 (Measurement and Payment) of the Project Manual has been revised to match the Supplemental Specifications and Special Provisions Listing. Also, Section 064116 (Plastic-Laminate-Clad Architectural Cabinets) of the Project Manual has been revised to show the correct section numbers in the page footers. The Storm Water Pollution Prevention Plan is also being provided. Plan Sheets 1 and 3 have been revised to reflect these changes. You should substitute the revised sheets into your plan set and proposal documents and consider these revisions when submitting your bid.

ACKNOWLEDGEMENT OF THIS ADDENDUM SHALL BE MADE BY SIGNING BELOW AND SUBMITTING THIS SIGNED FORM TO THE PROGRAM MANAGEMENT DIVISION BY EMAIL AT pmd@ardot.gov OR BY FAX AT (501)569-2623.

Sincerely,

for Erica Adams
Division Engineer
Program Management

_____
Name

_____
Company

EMAILED ADDENDUM

SECTION 000001

SPECIAL PROVISION – MEASUREMENT AND PAYMENT

Part 1 - GENERAL

1.1 SECTION INCLUDES:

A. Delineation of measurement and payment criteria applicable to Unit Price Work, whether the unit price items are part of a unit price contract or are part of a Stipulated Price contract.

B. Defect assessment and non-payment for rejected work.

1.2 AUTHORITY

A. Measurement methods are delineated for each individual bid item, or for a group of similar items, under this section.

B. Engineer will take all measurements and compute quantities accordingly.

C. Assist by providing necessary equipment, workers, and survey personnel as required.

1.3 UNIT QUANTITIES SPECIFIED

A. Quantities and measurements indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements supplied or placed in the Work and verified by Engineer shall determine payment except those items of work that will be paid based on plan quantities.

B. If the actual Work requires more or fewer quantities than those quantities indicated, provide the required quantities at the unit prices contracted.

1.4 MEASUREMENT OF QUANTITIES

A. Measurement by Weight: Items measured by weight will use specified standard handbook weights unless otherwise specified in this section for an individual item.

B. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness with survey chain or a steel tape.

C. Measurement by Area: Measured by square dimension using mean length and width or radius, with survey chain or steel tape.

D. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord, with survey chain or steel tape.

E. Individual Item Measurement: Items to be paid for “each” unit furnished and installed shall be counted by Engineer.

1.5 PAYMENT

A. Payment Includes**:** Full compensation for required labor, Products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

B. Final payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by Engineer multiplied by the unit price for Work which is incorporated in or made necessary by the Work.

1.6 DEFECT ASSESSMENT

A. Replace the Work, or portions of the Work, not conforming to specified requirements.

B. If in the opinion of Engineer, it is not practical to remove and replace the Work, Engineer will direct that the defective Work will be repaired to the satisfaction of Engineer, and the unit price will be adjusted to a new price at the discretion of Engineer.

C. The authority of Engineer to assess the defect and identify payment adjustment is final.

1.7 NON-PAYMENT FOR REJECTED PRODUCTS

A. Payment will not be made for any of the following:
   1. Products wasted or disposed of in a manner that is not acceptable.
   2. Products determined as unacceptable before or after placement.
   3. Products not completely unloaded from the transporting vehicle.
   4. Products placed beyond the lines, levels or boundaries of the required Work.
   5. Products remaining on hand after completion of the Work.
   6. Loading, hauling and disposing of rejected Products.

1.8 INCIDENTAL ITEMS

A. General - Items indicated as incidental to a particular payment item are considered an integral part of that payment item, and will not be measured or considered in determining payments.

B. Safety - Safety is considered as incidental to every payment item, except for excavation safety, which is a separate bid item.

C. Testing - Testing of installed work required by the specifications to be completed by Contractor is incidental to any item included in the unit or system being tested. Retesting after corrective action to Work initially found to be defective is incidental to the item.

D. Mobilization - mobilization, clean-up, project closeout, project record documents, and all costs not directly mentioned in this section are considered as incidental to the Work.

E. Excess Excavation - Excess excavation is generally incidental to the payment item, except where Engineer has indicated that an excavation be expanded due to subsurface conditions. Excess excavation undertaken by Contractor to stabilize the trench bottom or walls, where dewatering or shoring would be suitable to correct trench conditions, will not be paid. Excess

excavation includes backfilling with approved material as specified or as indicated on the Drawings.

1.9 PAYMENT ITEMS

1. Mobilization
    1. Description – Preparatory work and operations.
    2. Incidental Items – movement of personnel, equipment, supplies, and incidentals to the project site; the establishment of the Contractor's offices, buildings, and other facilities necessary to undertake the work on the project. Also including work and operations that must be performed, or for expenses incurred, before beginning work on the various Contract items on the project site. Also pre-construction costs which are necessary direct costs to the project and are of a general nature rather than directly attributable to other pay items under the contract.
    3. Related Items – None
    4. Units and Measurement – Payment shall be lump sum.
    5. Partial Payment Provisions – Partial payment schedule is as follows:

Percentage of Original Contract Amount Earned	*Percentage of Bid Price for Mobilization Allowed*
First Progress Estimate	25
10	50
25	100

2. Welcome Center
    1. Description – Construct Welcome Center facility as indicated on the drawings including Welcome Center Building, Vending Kiosk, Pavilions, and Maintenance Buildings and all associated work required.
        a) Site work includes all material, labor, and equipment needed for site clearing and grading, work, roads, pavements, site drainage, site detention, utility work, septic system, striping, site lighting, and landscaping as indicated on the drawings.
        b) Building work included all material, labor, and equipment needed for all buildings.
    2. Incidental Items - Incidental items include all items directly related to the building, including all equipment, labor, and materials necessary to complete the work, and including all items indicated in the construction documents but not specifically covered in other portions of this special provision.
    3. Related Items – None.
    4. Units and Measurements - Payment shall be lump sum.
    5. Partial Payment Provisions - Partial payment will be according to percent complete based on a schedule of values submitted by contractor.

3. Roadway Construction
    1. Description - This item shall consist of providing all labor, tools, equipment, maintenance of traffic, and materials necessary for construction of Mt. Pleasant Road as shown on the Plans and as specified herein.

2. Materials - Roadway Items: All materials shall meet the requirement of the applicable section of the 2014 Edition of the Arkansas Department of Transportation (ARDOT) Standard Specification for Highway Construction and the applicable Supplemental Specifications, Special Provisions, and Governing Specifications listed below in Table 1.

TABLE 1

MATERIAL	SECTION
Clearing and Grubbing	Section 201
Excavation and Embankment	Section 210
Aggregate Base Course	Section 303
Prime and Tack Coats and Emulsified Asphalt in Base Course	Section 401
Asphalt Concrete Hot Mix Binder Course	Section 406
Asphalt Concrete Hot Mix Surface Course	Section 407
Asphalt Concrete Patching for Maintenance of Traffic	Section 414
Mobilization	Section 601
Furnishing Field Offices and Laboratories	Section 602
Maintenance of Traffic and Temporary Structures	Section 603
Traffic Control Devices in Construction Zones	Section 604
Pipe Culverts	Section 606
Fences	Section 619
Seeding	Section 620
Temporary Erosion Control Items and Devices	Section 621
Second Seeding Application	Section 623
Solid Sodding	Section 624
Erosion Control Matting	Section 626
Concrete Walks, Concrete Steps, and Hand Railing	Section 633
Roadway Construction Control	Section 635
Mailboxes	Section 637
Reflectorized Paint Pavement Marking	Section 718
Raised Pavement Marker	Section 721
Standard Sign	Section 726
Channel Post Sign Support	Section 729

SUPPLEMENTAL SPECIFICATIONS

ERRATA
100-3____Contractor’s License
100-4____Department Name Change
102-2____Issuance of Proposals
102-3____Prequalification of Bidder
103-2____Contact Information for Motorist Damage Claims
105-4____Maintenance During Construction
107-2____Restraining Conditions
108-1____Liquidated Damages
108-2____Work Allowed Prior to Issuance of Work Order
110-1____Protection of Water Quality and Wetlands
210-1____Unclassified Excavation
303-1____Aggregate Base Course

306-1____Quality Control and Acceptance
400-4____Design and Quality Control of Asphalt Mixtures
400-5____Percent Air Voids for ACHM Mix Designs
400-6____Liquid Anti-Strip Additive
404-3____Design of Asphalt Mixtures
409-2____Asphalt Laboratory Facility
410-1____Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses
410-2____Devices for Measuring Density for Rolling Patterns
410-4____Evaluation of ACHM Sublot Replacement Material
416-1____Recycled Asphalt Pavement
603-1____Lane Closure Notification
604-1____Retroreflective Sheeting for Traffic Control Devices in Construction Zones
604-3____Traffic Control Devices in Construction Zones (MASH)
621-1____Filter Socks
633-1____Concrete Walks, Concrete Steps, and Hand Railing
723-1____General Requirements for Signs
729-1____Channel Post Sign Support
802-4____Cement

SPECIAL PROVISONS

Job 090580____Bidding Requirements and Conditions
Job 090580____Broadband Internet Service for Asphalt Concrete Plant
Job 090580____Broadband Internet Service for Field Office
Job 090580____Design and Quality Control of Asphalt Mixtures
Job 090580____Design of Asphalt Mixtures - Aggregates
Job 090580____Liquidated Damages Procedure for Bid Lettings
Job 090580____Mandatory Electronic Contract
Job 090580____Mandatory Electronic Document Submittal
Job 090580____Partnering Requirements
Job 090580____Project Manual
Job 090580____Stormwater Pollution Prevention Plan
Job 090580____Submission of Asphalt Concrete Hot Mix Acceptance Test Results
Job 090580____Utility Adjustments
Job 090580____Value Engineering

3. Construction Methods - Roadway Items: All work involved with the construction of the Mt. Pleasant Road shall be in accordance with the details shown on the plans and the above referenced sections of the Arkansas State Highway and Transportation Department's Standard Specification for Highway Construction, Edition of 2014, and unless modified or augmented herein.

4. Measurement and Payment - All materials, equipment, work and labor involved with the construction of Mt. Pleasant Road shall be measured and paid for on a lump sum basis. The lump sum price shall be full compensation for all materials, labor, road construction control, equipment and tools required to perform all the work. All work required for Payment Item 3 – Roadway Construction shall be as specified elsewhere

within these specifications. The provisions of this section shall govern over any reference pertaining to payment outlined in the Arkansas State Highway and Transportation Department's Standard Specification for Highway Construction, latest edition.

Payment made under Roadway Construction (Mt. Pleasant Road) - per lump sum

Part 2 – PRODUCTS

Not Used.

Part 3- EXECUTION

Not Used.

End of Measurement and Payment

SUPPLEMENTAL SPECIFICATIONS

SPECIAL PROVISIONS

GOVERNING SPECIFICATIONS

SECTION 064116 - PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Plastic-laminate-clad architectural cabinets.
2. Cabinet hardware and accessories.
3. Wood furring, blocking, shims, and hanging strips for installing plastic-laminate-clad architectural cabinets that are not concealed within other construction.

B. Related Requirements:
1. Section 061000 "Rough Carpentry" for wood furring, blocking, shims, and hanging strips required for installing cabinets that are concealed within other construction before cabinet installation.

1.2 COORDINATION

A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to support loads imposed by installed and fully loaded cabinets.

C. Hardware Coordination: Distribute copies of approved hardware schedule specified in Section 087100 "Door Hardware" to manufacturer of architectural cabinets; coordinate Shop Drawings and fabrication with hardware requirements.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.
1. Include data for fire-retardant treatment from chemical-treatment manufacturer and certification by treating plant that treated materials comply with requirements.

B. Shop Drawings:
1. Include plans, elevations, sections, and attachment details.
3. Show large-scale details.
4. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
5. Show locations and sizes of cutouts and holes for items installed in plastic-laminate architectural cabinets.
7. Apply AWI Quality Certification Program label to Shop Drawings.

C. Samples: For the following:
   1. Plastic Laminates: 8 by 10 inches, for each type, color, pattern, and surface finish required.
      a. Provide one sample applied to core material with specified edge material applied to one edge.
   2. Thermoset Decorative Panels: 8 by 10 inches, for each color, pattern, and surface finish selected by the Owner.
      a. Provide edge banding on one edge.
   3. Corner Pieces:
      a. Cabinet-front frame joints between stiles and rails and at exposed end pieces, 18 inches high by 18 inches wide by 6 inches deep.
      b. Miter joints for standing trim.
   4. Exposed Cabinet Hardware and Accessories: One full-size unit for each type and finish.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For manufacturer and Installer.

B. Product Certificates: For the following:
   1. Composite wood products.
   2. Thermoset decorative panels.
   3. High-pressure decorative laminate.
   4. Glass.
   5. Adhesives.

C. Evaluation Reports: For fire-retardant-treated materials, from ICC-ES.

D. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

A. Quality Standard Compliance Certificates: AWI Quality Certification Program certificates.

1.7 QUALITY ASSURANCE

A. Manufacturer's Qualifications: Employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.

   1. Manufacturer's Certification: Licensed participant in AWI's Quality Certification Program.

B. Installer Qualifications: Manufacturer of products.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver cabinets until painting and similar finish operations that might damage architectural cabinets have been completed in installation areas. Store cabinets in installation areas or in areas where environmental conditions comply with requirements specified in "Field Conditions" Article.

1.9 FIELD CONDITIONS

A. Environmental Limitations without Humidity Control: Do not deliver or install cabinets until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature and relative humidity at levels planned for building occupants during the remainder of the construction period.

B. Environmental Limitations with Humidity Control: Do not deliver or install cabinets until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature between 60 and 90 deg F and relative humidity between 25 and 55 percent during the remainder of the construction period.

C. Field Measurements: Where cabinets are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
   1. Locate concealed framing, blocking, and reinforcements that support cabinets by field measurements before being enclosed/concealed by construction and indicate measurements on Shop Drawings.

D. Established Dimensions: Where cabinets are indicated to fit to other construction, establish dimensions for areas where cabinets are to fit. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

PART 2 - PRODUCTS

2.1 PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS

A. Quality Standard: Unless otherwise indicated, comply with the Architectural Woodwork Standards for grades of cabinets indicated for construction, finishes, installation, and other requirements.
   1. Provide labels and certificates from AWI certification program indicating that woodwork and installation complies with requirements of grades specified.

B. Architectural Woodwork Standards Grade: Custom.

C. Type of Construction: Frameless.

D. Door and Drawer-Front Style: Flush overlay.

E. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by quality standard.

F. Laminate Cladding for Exposed Surfaces:
1. Horizontal Surfaces: Grade HGS.
2. Postformed Surfaces: Grade HGP.
3. Vertical Surfaces: Grade VGS.
4. Edges: PVC edge banding, 1/8-inch thick, matching laminate in color, pattern, and finish.
5. Pattern Direction: As indicated by the Owner's selection.

G. Materials for Semiexposed Surfaces:
1. Surfaces Other Than Drawer Bodies: Thermoset decorative panels.
a. Edges of Plastic-Laminate Shelves: PVC edge banding, 1/8-inch thick, matching laminate in color, pattern, and finish.
b. Edges of Thermoset Decorative Panel Shelves: PVC or polyester edge banding.
c. For semiexposed backs of panels with exposed plastic-laminate surfaces, provide surface of high-pressure decorative laminate, NEMA LD 3, Grade VGS.
2. Drawer Sides and Backs: Thermoset decorative panels with PVC or polyester edge banding.
3. Drawer Bottoms: Thermoset decorative panels.

H. Concealed Backs of Panels with Exposed Plastic-Laminate Surfaces: High-pressure decorative laminate, NEMA LD 3, Grade BKL.

I. Drawer Construction: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body.
1. Join subfronts, backs, and sides with glued rabbeted joints supplemented by mechanical fasteners.

J. Colors, Patterns, and Finishes: As selected by TxDOT/Architect from the manufacturer's standard color range. Refer to drawings.

2.2 WOOD MATERIALS

A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of architectural cabinet and quality grade specified unless otherwise indicated.
1. Wood Moisture Content: 5 to 10 percent.

B. Composite Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of architectural cabinet and quality grade specified unless otherwise indicated.
1. Medium-Density Fiberboard (MDF): ANSI A208.2, Grade 130.
2. Thermoset Decorative Panels: Particleboard or MDF finished with thermally fused, melamine-impregnated decorative paper and complying with requirements of NEMA LD 3, Grade VGL, for Test Methods 3.3, 3.4, 3.6, 3.8, and 3.10.

2.3 CABINET HARDWARE AND ACCESSORIES

A. Frameless Concealed Hinges (European Type): ANSI/BHMA A156.9, B01602, 100 degrees of opening.

B. Back-Mounted Pulls: ANSI/BHMA A156.9, B02011.

C. Wire Pulls: Back mounted, solid metal, 4 inches long, 5/16 inch in diameter, color as selected by the Owner from the manufacturer's standard color selections.

D. Catches: Magnetic catches, ANSI/BHMA A156.9, B03141.

F. Adjustable Shelf Standards and Supports: ANSI/BHMA A156.9, B04102; with shelf brackets, B04112. Shelf standards to be fully rabbited.

G. Drawer Slides: ANSI/BHMA A156.9.
1. Grade 1 and Grade 2: Side mounted and extending under bottom edge of drawer.
   a. Type: Full extension.
   b. Material: Zinc-plated steel with polymer rollers.
2. Grade 1HD-100 and Grade 1HD-200: Side mounted; full-extension type; zinc-plated-steel ball-bearing slides.
3. For drawers not more than 3 inches high and not more than 24 inches wide, provide Grade 1.
4. For drawers more than 3 inches high, but not more than 6 inches high and not more than 24 inches wide, provide Grade 1.
5. For drawers more than 6 inches high or more than 24 inches wide, provide Grade 1HD-100.

H. Door and Drawer Silencers: ANSI/BHMA A156.16, L03011.

I. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with ANSI/BHMA A156.18 for ANSI/BHMA finish number indicated.
1. As selected by Architect from the manufacturer's standard selections.

J. For concealed hardware, provide manufacturer's standard finish that complies with product class requirements in ANSI/BHMA A156.9.

2.4 MISCELLANEOUS MATERIALS

A. Furring, Blocking, Shims, and Hanging Strips: Fire-retardant-treated softwood lumber, kiln-dried to less than 15 percent moisture content.

B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.

C. Adhesive for Bonding Plastic Laminate: Unpigmented contact cement.
1. Adhesive for Bonding Edges: Hot-melt adhesive.

2.5 FABRICATION

A. Fabricate architectural cabinets to dimensions, profiles, and details indicated.

B. Complete fabrication, including assembly and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for

shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.

1. Notify Architect seven days in advance of the dates and times architectural cabinet fabrication will be complete.
2. Trial fit assemblies at manufacturer's shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that various parts fit as intended and check measurements of assemblies against field measurements before disassembling for shipment.

C. Shop-cut openings to maximum extent possible to receive hardware, appliances, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

PART 3 - EXECUTION

3.1 PREPARATION

A. Before installation, condition cabinets to humidity conditions in installation areas for not less than 72 hours.

3.2 INSTALLATION

A. Architectural Woodwork Standards Grade: Install cabinets to comply with quality standard grade of item to be installed.

B. Assemble cabinets and complete fabrication at Project site to extent that it was not completed in the shop.

C. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with wafer-head cabinet installation screws.

D. Install cabinets level, plumb, and true in line to a tolerance of 1/8 inch in 96 inches using concealed shims.

1. Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
2. Install cabinets without distortion so doors and drawers fit openings and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
4. Fasten wall cabinets through back, near top and bottom, and at ends not more than 16 inches o.c. with No. 10 wafer-head screws sized for not less than 1-1/2-inch penetration into wood framing, blocking, or hanging strips.
5. Countersink fasteners and cap with same color covers to match inside material color finish.

3.3 ADJUSTING AND CLEANING

A. Repair damaged and defective cabinets, where possible, to eliminate functional and visual defects. Where not possible to repair, replace architectural cabinets. Adjust joinery for uniform appearance.

B. Clean, lubricate, and adjust hardware.

C. Clean cabinets on exposed and semiexposed surfaces.

END OF SECTION 064116

ADEQ
ARKANSAS
Department of Environmental Quality

NOTICE OF INTENT
FOR DISCHARGES OF STORMWATER
ASSOCIATED WITH LARGE CONSTRUCTION ACTIVITY
AUTHORIZED UNDER NPDES GENERAL PERMIT ARR150000

The enclosed form may be used to obtain coverage under NPDES general permit ARR150000 for discharges of stormwater associated with large construction activity at any site or common plan of development or sale that will result in the disturbance of five (5) or more acres of total land area.

Return the completed form to:

Arkansas Department of Environmental Quality
Permit Branch, Office of Water Quality
5301 Northshore Drive
North Little Rock, AR 72118

Unless notified by the Director to the contrary, dischargers who submit a complete Notice of Intent in accordance with the requirements of this permit are authorized to discharge stormwater from construction sites under the terms and conditions of this permit two weeks after the date the NOI is postmarked.

As required by ADEQ Regulation No. 9, an initial permit fee of $200.00 must be submitted with this NOI. Subsequent annual fees of $200.00 per year will be billed by the Department. Failure to remit the required permit fee may be grounds for the Director to deny coverage under this general permit, and to require the owner or operator to apply for an individual NPDES permit.

NOTE: A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED PRIOR TO SUBMITTAL OF THIS NOI PER PART II.A OF THE GENERAL PERMIT. THE SWPPP MUST BE SUBMITTED FOR REVIEW ALONG WITH THIS NOI FOR LARGE CONSTRUCTION SITES PER PART I.B.6.B OF THE GENERAL PERMIT**.**

For additional information please contact:

Stormwater Runoff Engineer
Ph.: (501) 682-0623
Fax: (501) 682-0880
website: www.adeq.state.ar.us

INSTRUCTIONS

I. How to Determine Latitude and Longitude:

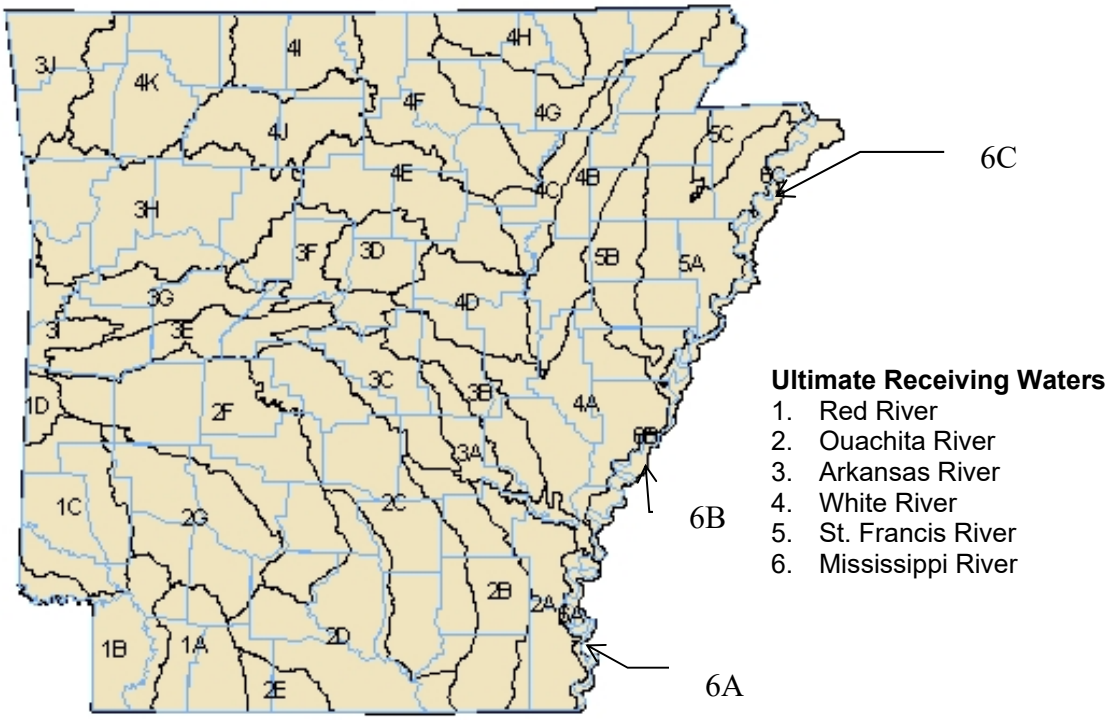
1. If a physical address is known go to www.terraserver-usa.com.
2. Select Advanced Find
3. Select Address
4. Input address
5. Click on Aerial Photo
6. Click on the Info link at the top of the page
7. Note the Latitude and Longitude are in Decimal Coordinates.
8. Go to www.geology.enr.state.nc.us/gis/latlon.html to convert coordinates to Degrees, Minutes, and Seconds.

NOTE: If a physical address does not exist you may find the coordinates in the Legal Description of the property.

ADEQ
ARKANSAS
Department of Environmental Quality

II. How to Determine your Ultimate Receiving Waters:

1. Locate the county of your project.
2. Find the numbered segment overlaying the county. For example 2C overlays most of Saline County.
3. Match the number from the segment to the one of the numbered Ultimate Receiving Waters. For example: A project located in Western Saline County is in segment 2C. The "2" determines that the Ultimate Receiving Water for the project is the Ouachita River.



III. How to determine if the receiving stream is on the approved Arkansas 303(d) List:

1. Go to www.epa.gov/owow/tmdl
2. Using the map of the United States, click on Arkansas.
3. Using the "Waters Listed by Waterbody Type" links search for your receiving stream.
4. If your receiving stream is not listed, than your receiving stream is not on the approved Arkansas 303(d) List.
5. If your receiving stream is listed, then click on the links for that receiving stream to determine the pollutants causing the impairment. If the receiving stream is listed as an impaired for any pollutant, you must incorporate into the SWPPP any additional BMPs needed to sufficiently protect water quality. The Department may require additional BMPs.
6. Once a determination is made that your receiving stream is on the approved Arkansas 303(d) List, than you must determine if the receiving stream has an approved TMDL by using the "Approved TMDLs by Pollutant since January 1, 1996" links toward the bottom of the webpage.
    i. If the approved TMDL has established a specific numeric allocation that would apply to a project's discharges, you will be required to incorporate the allocation into your SWPPP and implement steps to meet the allocation.
    ii. If the approved TMDL has assigned to the facility, quarterly monitoring must be submitted to the Department demonstrating compliance with the assigned Waste Load Allocation.

IV. How to obtain information in regard to Endangered Species:

Contact the U.S. Fish and Wildlife Service at (501) 513-4470 or www.fws.gov/arkansas-es.

Arkansas Department of Environmental Quality
Permits Branch, Office of Water Quality
5301 Northshore Drive
North Little Rock, AR 72118
(501) 682-0623

NOTICE OF INTENT
FOR DISCHARGERS OF STORMWATER RUNOFF ASSOCIATED WITH LARGE CONSTRUCTION ACTIVITY AUTHORIZED UNDER NPDES GENERAL PERMIT ARR150000

Application Type: **New** ☒ **Renewal** ☐ **(Permit Tracking Number ARR(150000)**

I. PERMITTEE/OPERATOR INFORMATION

Permittee (Legal Name): Arkansas Department of Transportation
Permittee Mailing Address: P.O. Box 2261
Permittee City: Little Rock
Permittee State: AR Zip: 72203
Permittee Telephone Number: 501-569-2000
Permittee Fax Number 501-569-2623
Permittee E-mail Address Mina.Awadalla@ardot.gov

Operator Type:
☒ STATE ☐ PARTNERSHIP
☐ FEDERAL ☐ CORPORATION*
☐ SOLE PROPRIETORSHIP
☐ PUBLIC ☐ OTHER

*State of Incorporation:

* The legal name of the Permittee must be identical to the name listed with the Arkansas Secretary of State.

II. INVOICE MAILING INFORMATION

Invoice Contact Person: Mina Awadalla
Invoice Mailing Company: Arkansas Department of Transportation
Invoice Mailing Address: P.O. Box 2261
City: Little Rock
State: AR Zip: 72203
Telephone: 501-569-2624

III. FACILITY/PROJECT CONSTRUCTION SITE INFORMATION

1 acre = 43,560 square feet

Project Name: ARDOT - Arkansas Welcome Center
Project County: Benton
Directions to the Project: From I-49N, take Exit 102 onto AR-72W. The Welcome Center will be located north of AR-72 and east of the Mt. Pleasant Rd. intersection.
Project Estimated Start Date: 10/1/23
Project Estimated End Date: 10/1/24
Contact Person: Mina Awadalla
Project Physical Address: Near 13531 N Mt Pleasant Rd
Project City: Gravette Zip: 72736
Telephone Number: 501-569-2624
Total amount of soil to be disturbed (estimate to nearest 1/2 acre): 10.5
Total Project Acreage (Estimate to nearest ½ acre): 25.0

Project Latitude: 36 degrees 25 minutes 56.9 seconds
Project Longitude: 94 degrees 22 minutes 21.7 seconds

Type of Project: Subdivision ☐ School ☒ Other: Visitor Center Construction

Is the Project part of a larger common plan of development or sale? Yes ☐ No ☒

Linear Project Starting Coordinates (if applicable): Latitude: Longitude:

Linear Project Ending Coordinates (if applicable): Latitude: Longitude:

Arkansas Department of Environmental Quality
Permits Branch, Office of Water Quality
5301 Northshore Drive
North Little Rock, AR 72118
(501) 682-0623

IV. DISCHARGE INFORMATION

Name of Receiving Stream (i.e. an unnamed tributary of Mill Creek, thence into Mill Creek; thence into Arkansas River):
I-49 roadside stormwater collection system, thence to Butler Creek, thence to Elk River, thence to Neosho River, thence to Arkansas River. Unnamed tributary of Spavinaw Creek, thence to Spavinaw Creek, thence to Neosho River, thence to Arkansas River.

Choose Your Ultimate Receiving Stream: Red River ☐ Ouachita River ☐ Arkansas River ☒
White River ☐ St. Francis River ☐ Mississippi River ☐

Name of Receiving Municipal Storm Sewer System (If applicable): n/a

Will you be conducting any in-stream or wetted area activities (i.e. re-routing, trenching, stabilizing, sloping, etc.) ? _Yes X No

If yes, have you obtained an approval for a Short Term Activity Authorization (STAA) from the Department? _ Yes _ No Pending

Is the stream or wetted area considered "Waters of the United States"?__ Yes X No

If yes, have you obtained a 404 permit from the U.S. Army Corps of Engineers? __Yes __ No

For information regarding what constitutes " Waters of the United States" please contact the U.S. Army Corps of Engineers, Regulatory Division in the District in which the activity is to take place. Below is the contact information for the three U.S. Army Corps of Engineers Districts in the State:

Little Rock District Ph: (501) 324-5295, CESWL-Regulatory@usace.army.mil
Vicksburg District: Ph: (601) 631-7071, regulatory@usace.army.mil
Memphis District: Ph: (901) 544-3471, MemphisPAO@usace.army.mil

V. FACILITY/SITE PERMIT INFORMATION

NPDES Individual Permit Number (If Applicable): AR00

NPDES General Permit Number (If Applicable): ARG

NPDES General Industrial Stormwater Permit Number (If Applicable): ARR00

NPDES General Construction Stormwater Permit Number (If Applicable): ARR150000

VI. OTHER INFORMATION:

Location of SWPPP on the Construction Site: Project Trailer

Consultant Company: Garver

Consultant Contact Name: Daniel Butler

Consultant Email Address: DLButler@GarverUSA.com

Consultant Address: 2049 E Joyce Blvd City: Fayetteville State: AR Zip: 72703

Consultant Phone Number: 479-879-9782 Consultant Fax Number: 479-527-9101

Arkansas Department of Environmental Quality
Permits Branch, Office of Water Quality
5301 Northshore Drive
North Little Rock, AR 72118
(501) 682-0623

VII. CERTIFICATION OF OPERATOR

"I certify that, if this facility is a corporation, it is registered with the Secretary of State of Arkansas. Please provide the full name of corporation if different than that listed in Section I above. "

"I certify that as a whole the stormwater discharge(s), and the construction and implementation of Best Management Practices (BMP's) to control stormwater runoff, are not likely to adversely affect species of critical habitat for a listed species."

"I certify that a stormwater pollution prevention plan has been prepared for this facility in accordance with Part II.A of this permit, which provides for, or will provide for, compliance with local sediment and erosion plans, local stormwater permits or stormwater management plans, in accordance with Part II.A.4.c of this permit."

"I certify that the cognizant official designated in Part VIII of this Notice of Intent is qualified to act as a duly authorized representative under the provisions of 40 CFR 122.22(b). If no cognizant official has been designated, I understand that the Department will accept reports signed by the applicant"

"I certify under penalty of law that this document and all attachments such as Inspection Form were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the 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, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Responsible Official Printed Name: Mina Awadalla Title: State Facilities Manager Engineer

Responsible Official Signature: Mina Awadalla Date: 08-30-2023

VIII. COGNIZANT OFFICIAL

Cognizant Official Printed Name: Mina Awadalla Title: State Facilities Manager Engineer

Cognizant Official Signature: Mina Awadalla Telephone: 501-569-2624

IX. PERMIT REQUIREMENT VERIFICATION

Please check the following to verify completion of permit requirements.

	Yes	No*
Submittal of Complete NOI?	☒	☐
Submittal of Required Permit Fee?	☒	☐
Check Number: _____		
Complete SWPPP?	☒	☐

*** If you answer No to any of the above questions, then a permit can not be issued!**

Stormwater Pollution Prevention Plan (SWPPP) for Construction Activity for Large Construction Sites

National Pollutant Discharge Elimination System (NPDES)
General Permit # ARR150000

Prepared for:
Arkansas Department of Transportation (ARDOT)
P.O. Box 2261
Little Rock, Arkansas
501-569-2000

Date:
July 2023

Prepared by:

GARVER

Stormwater Pollution Prevention Plan for Construction Activity
ARR150000

Project Name and Location: _ARDOT - Welcome Center, Gravette, AR

Property Parcel Number (*Optional*): _Benton County Parcel # 11-00002-787 & 11-01516-000

Operator Name and Address: Arkansas Department of Transportation, P.O. Box 2261, Little Rock, AR 72209

A. Site Description

a. Project description, intended use after NOI is filed: The purpose of the project is to construct a 7,200 square foot welcome center building, covered picnic buildings, and a maintenance building, with associated truck / car parking spaces, sidewalks, utilities, and storm drainage. One detention pond is proposed to mitigate the increase in impervious surface from this development.

b. General Sequence of activities:

1. Obtain all necessary permits (if required).
2. Know and maintain an Arkansas Department of Energy and Environment, Division of Environmental Quality (DEQ) approved Storm Water Pollution Prevention Plan implemented for construction sites.
3. Inform all personnel and subcontractors of the SWPPP and relate where to post the Construction Site Notice and house the SWPPP.
4. Have all existing utilities located.
5. Install erosion and sediment control devices in accordance with the Plans and this SWPPP.
6. Perform clear and grub activities.
7. Construct improvements (see Plan Set). Maintain erosion and sediment control devices as needed.
8. Grade all areas to final grade.
9. After each construction phase, stabilize all areas by seeding, placing topsoil, landscaping, or sod.
10. When all construction is completed, the site is 100% stabilized at 80% density, and approved by the Engineer, remove all temporary erosion and sediment control features. Stabilize with sod or seed any areas disturbed by their removal.

c. Total Area[1]: 25.27 Disturbed Area[2]: 10.67

[1]Increases in total acreage require an additional acreage request, an updated SWPPP and a $200 modification fee to be submitted to ADEQ.

[2]Increases in only disturbed acreage require an additional acreage request and an updated SWPPP to be submitted to ADEQ.

d. Soils Information:
   i. Runoff Coefficient Pre-Construction (See Appendix A) : 0.44
   ii. Runoff Coefficient Post-Construction (See Appendix A) : 0.52
   iii. Describe the soil or the quality of any discharge from the site:

Map Unit Symbol	Map Unit Name	Percent in AOI	HSG Classification
NfC	Nixa very gravelly silt loam, 3 to 8 percent slopes	2.6	D
TsC	Tonti gravelly silt loam, 3 to 8 percent slopes	97.4	C

B. Responsible Parties

Be sure to assign all SWPPP related activities to an individual or position; even if the specific individual is not yet known (i.e. contractor has not been chosen).

Individual/Company	Phone Number	Service Provided for SWPPP (i.e., Inspector, SWPPP revisions, Stabilization Activities, BMP Maintenance, etc.)
Arkansas Department of Transportation	501-569-2624	Owner/Operator
Contractor	TBD	Inspector, SWPPP revisions, logs, Stabilization Activities, BMP Implementation and Maintenance, etc.
Engineer and Environmental Scientist, Garver	479-287-4673	Engineer, SWPPP Developer

C. Receiving Waters
   a. The following waterbody (or waterbodies) receives stormwater from this construction site: I-49 roadside stormwater collection system, thence to Butler Creek, thence to Elk River, thence to Neosho River, thence to Arkansas River. Unnamed tributary of Spavinaw Creek, thence to Spavinaw Creek, thence to Neosho River, thence to Arkansas River.
   b. Is the project located within the jurisdiction of an MS4? ☐ Yes ☒ No
      i. If yes, Name of MS4: n/a
   c. Ultimate Receiving Water:

☐ Red River	☐ White River
☐ Ouachita River	☐ St. Francis River
☒ Arkansas River	☐ Mississippi River

D. Documentation of Permit Eligibility Related to the 303(d) list and Total Maximum Daily Loads (TMDL) (https://www.adeq.state.ar.us/water/planning/)
    a. Does the stormwater enter a waterbody on the 303(d) list or with an approved TMDL? ☐Yes ☒No

E. Attainment of Water Quality Standards After Authorization
    a. The permittee must select, install, implement, and maintain BMPs at the construction site that minimize pollutants in the discharge as necessary to meet applicable water quality standards. In general, except in situations explained below, the SWPPP developed, implemented, and updated to be considered as stringent as necessary to ensure that the discharges do not cause or contribute to an excursion above any applicable water quality standard.
    b. At any time after authorization, the Department may determine that the stormwater discharges may cause, have reasonable potential to cause, or contribute to an excursion above any applicable water quality standard. If such a determination is made, the Department will require the permittee to:
        i. Develop a supplemental BMP action plan describing SWPPP modifications to address adequately the identified water quality concerns and submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining water quality standards; or
        ii. Cease discharges of pollutants from construction activity and submit an individual permit application.

    I understand and agree to follow the above text regarding the attainment of water quality standards after authorization. ☒Yes ☐No

F. Site Map Requirements (Attach Site Map):
    a. Pre-construction topographic view;
    b. Direction of stormwater flow (i.e., use arrows to show which direction stormwater will flow) and approximate slopes anticipated after grading activities;
    c. Delineate on the site map areas of soil disturbance and areas that will not be disturbed under the coverage of this permit;
    d. Location of major structural and nonstructural controls identified in the plan;
    e. Location of main construction entrance and exit;
    f. Location where stabilization practices are expected to occur;
    g. Locations of off-site materials, waste, borrow area, or equipment storage area;
    h. Location of areas used for concrete wash-out;

i. Location of all surface water bodies (including wetlands) with associated natural buffer boundary lines. Identify floodplain and floodway boundaries, if available;
j. Locations where stormwater is discharged to a surface water and/or municipal separate storm sewer system if applicable,
k. Locations where stormwater is discharged off-site (should be continuously updated);
l. Areas where final stabilization has been accomplished and no further construction phase permit requirements apply;
m. A legend that identifies any erosion and sediment control measure symbols/labels used in the site map and/or detail sheet; and
n. Locations of any storm drain inlets on the site and in the immediate vicinity of the site.

G. Stormwater Controls
   a. Initial Site Stabilization, Erosion and Sediment Controls, and Best Management Practices:
      i. Initial Site Stabilization: Erosion and sediment control measures shall be installed prior to beginning any demolition or construction activities as noted on the Erosion Control Sheets. Erosion control devices will be maintained throughout construction activities.
      ii. Erosion and Sediment Controls: silt fence, filter sock inlet protection, rock check dam, mud abatement bridge, concrete washout, detention pond.
      iii. If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, the operator will replace or modify the control for site situations: ☒Yes ☐No
           If No, explain: _____
           _____
      iv. Off-site accumulations of sediment will be removed at a frequency sufficient to minimize off-site impacts: ☒Yes ☐No
           If No, explain: _____
           _____
      v. Sediment will be removed from sediment traps or sedimentation ponds when design capacity has been reduced by 50%: ☒Yes ☐No
           If No, explain: _____
           _____
      vi. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges: ☒Yes ☐No

If No, explain: _____

_____

vii. Off-site material storage areas used solely by the permitted project are being covered by this SWPPP: ☐Yes ☒No

If Yes, explain additional BMPs implemented at off-site material storage area:

b. Stabilization Practices

i. Description and Schedule: Sod, permanent seeding, or mulch cover shall be utilized as the primary stabilization practice. Seeding shall be performed by hydro-seeding, by hand, or by a mechanical broadcasting method (once construction activities have ceased [temporarily or permanently]). Seeding rates and types shall be in accordance with the Contract Documents. Sodding may be placed in accordance with the project plans. Exposed bare earth sections should be protected by evenly distributed hay, straw, or wood mulch before a rain event. Dust shall be controlled by sufficiently wetting dusty areas, as needed. To all extents possible, construction activities shall be isolated as to limit areas of disturbance. Areas where construction ceases for more than 14 days shall be stabilized with a seed/straw mulch at a coverage rate of 2 tons/acre. Accumulated sediment will be removed at 50% capacity of the sediment control features, and erosion control devices will be removed after 100% stabilization at 80% density.

ii. Are buffer areas required? ☐Yes ☒No

If Yes, are buffer areas being used? ☐Yes ☒No

If Yes, describe natural buffer areas:

If No, explain why not: No streams present in disturbed area.

iii. A record of the dates when grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included with the plan. ☒Yes ☐No

If No, explain: _____

_____

iv. Deadlines for stabilization:
1. Stabilization procedures will be initiated 14 days after construction activity temporarily ceases on a portion of the site.
2. Stabilization procedures will be initiated immediately in portions of the site where construction activities have permanently ceased.

c. Structural Practices
i. Describe any structural practices to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site: silt fence, filter sock inlet protection, rock check dam, detention pond.
ii. Describe Velocity Dissipation Devices: rock check dam, silt fence, filter sock inlet protection.

iii. Sediment Basins:
Are 10 or more acres draining to a common point? ☒Yes ☐No
Is a sediment basin included in the project? ☒Yes ☐No
If Yes, what is the designed capacity for the storage?
☐3600 cubic feet per acre = : _____
or
☐10 year, 24 hour storm = :_____
☒ Other criteria were used to design basin: Stormwater flows to 4-acre stormwater retention pond which is monitored prior to discharge. The capacity for the pond was calculated to be 91,606 cubic feet using the 100-year design storm.
If No, explain why no sedimentation basin was included and describe required natural buffer areas and other controls implemented instead:_____
_____
_____

H. Other Controls
a. Solid materials, including building materials, shall be prevented from being discharged to Waters of the State: ☒Yes ☐No
b. Off-site vehicle tracking of sediments and the generation of dust shall be minimized through the use of:
☒A stabilized construction entrance and exit
☐Vehicle tire washing

☒Other controls, describe: _mud abatement bridge_____

c. Temporary Sanitary Facilities: Portable sanitary waste systems will be required at all times during construction. All sanitary waste will be collected from the portable units as necessary or as required by local regulation by a licensed sanitary waste management contractor.

d. Concrete Waste Area Provided:

☒Yes

☐No. Concrete is used on the site, but no concrete washout is provided.

Explain why: _____

_____

☐N/A, no concrete will be used with this project

e. Fuel Storage Areas, Hazardous Waste Storage, and Truck Wash Areas: _At a___ minimum, any products in the following categories shall be considered hazardous:_____ paints, acids for cleaning masonry surfaces, cleaning solvents, asphalt products,_____ chemical additives for soil stabilization, or concrete curing compounds and additives. In the event of a spill which may be hazardous, the spill coordinator designated by the____ Contractor should be contacted immediately. The Arkansas Department of Transportation and the City of Gravette shall also be notified immediately following notification of the spill coordinator. All hazardous waste_materials will be disposed of as specified by local or state regulations or by the product manufacturer. Fuel storage will be at least 300 feet from known wetlands or other waterbodies and shall have secondary containment as required by state and federal law. Products will be kept in original containers in covered areas unless they are not resealable. Original labels and material safety data will be retained; they contain important product information. If surplus products must be disposed of, manufacturers' or local and State recommended methods for proper disposal will be followed.

I. Non-Stormwater Discharges

a. The following allowable non-stormwater discharges comingled with stormwater are present or anticipated at the site:

☐Fire-fighting activities;

☒Fire hydrant flushings;

☐Water used to wash vehicles (where detergents or other chemicals are not used) or control dust in accordance with Part II.A.4.H.2;

☒Potable water sources including uncontaminated waterline flushings;

☒Landscape Irrigation;

☒Routine external building wash down which does not use detergents or other chemicals;

☒Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled materials have been removed) and where detergents or other chemicals are not used;

☒Uncontaminated air conditioning, compressor condensate (See Part I.B.13.C of the permit);
☒Uncontaminated springs, excavation dewatering and groundwater (See Part I.B.13.C of the permit);
☒Foundation or footing drains where flows are not contaminated with process materials such as solvents (See Part I.B.13.C of the permit);

b. Describe any controls associated with non-stormwater discharges present at the site: To all extents possible, non-stormwater discharges shall be minimized. Present or anticipated discharges at the site will be controlled using proposed erosion control BMPs (see Erosion Control Plans). These discharges will be monitored for during routine inspections.

J. Permanent Controls for Post-Construction Stormwater Management:

Describe measures installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed: Vegetation growth from permanent seed or sod shall be monitored, and any noted deficiencies shall be resolved prior to completion of the project. BMPs will not be removed until vegetation is established.

K. Applicable State or Local Programs: The SWPPP will be updated as necessary to reflect any revisions to applicable federal, state, or local requirements that affect the stormwater controls implemented at the site. ☒Yes ☐No

L. Inspections

a. Inspection frequency:

☒Every 7 calendar days
or
☐At least once every 14 calendar days and within 24 hours of the end of a storm even 0.25 inches or greater (a rain gauge must be maintained on-site)

b. Inspections:

Completed inspection forms will be kept with the SWPPP.
☒ADEQ's inspection form will be used (See Appendix B)
or
☐A form other than ADEQ's inspection form will be used and is attached (See inspection form requirements Part II.A.4.L.2)

c. Inspection records will be retained as part of the SWPPP for at least 3 years from the date of termination.

d. It is understood that the following sections describe waivers of site inspection requirements. All applicable documentation requirements will be followed in accordance with the referenced sections.

i. Winter Conditions (Part II.A.4.L.4)
ii. Adverse Weather Conditions (Part II.A.4.L.5)

M. Maintenance:

The following procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good, effective operating condition will be followed: All erosion and sediment controls shall be maintained in good working order. If a repair is necessary, it shall be done at the earliest date possible, but no later than three (3) calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from heavy equipment. Maintenance for non-manufactured controls (i.e. check dams and sediment traps) shall be done upon or prior to 50% capacity. The areas adjacent to streams or drainage ways shall have priority followed by devices protecting any drainage ditches.

Any necessary repairs will be completed, when practicable, before the next storm event, but not to exceed a period of 3 business days of discovery, or as otherwise directed by state or local officials.

N. Employee Training:

The following is a description of the training plan for personnel (including contractors and subcontractors) on this project: Training shall be given by a knowledgeable and qualified trainer to all project related personnel prior to them working at the project site. The Contractor shall be required to have a qualified individual as defined in the permit.

**Note, Formal training classes given by Universities or other third-party organizations are not required but recommended for qualified trainers; the permittee is responsible for the content of the training being adequate for personnel to implement the requirements of the permit.

Certification

"I certify under penalty of law that this document and all attachments such as Inspection Form were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the 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, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Responsible or Cognizant Official: _____

Title: State Facilities Manager Engineer Date: _____

Computation Sheet for Determining Runoff Coefficients

Appendix A

Total Site Area =	25.27	Acres	[A]

Existing Site Conditions

Impervious Site Area [1] =	2.24	Acres	[B]
Impervious Site Area Runoff Coefficient [2, 4] =	0.9	-	[C]
Pervious Site Area [3] =	23.03	Acres	[D]
Pervious Site Area Runoff Coefficient [4] =	0.4	-	[E]

Pre-Construction Runoff Coefficient

$$\frac{[B \times C] + [D \times E]}{[A]} = 0.44$$

Proposed Site Conditions (after construction)

Impervious Site Area [1] =	5.92	Acres	[F]
Impervious Site Area Runoff Coefficient [2, 4] =	0.9	-	[G]
Pervious Site Area [3] =	19.35	Acres	[H]
Pervious Site Area Runoff Coefficient [4] =	0.4	-	[I]

Post-Construction Runoff Coefficient

$$\frac{[F \times G] + [H \times I]}{[A]} = 0.52$$

1. Includes paved areas, areas covered by buildings, and other impervious surfaces.
2. Use 0.95 unless lower or higher runoff coefficient can be verified.
3. Includes areas of vegetation, most unpaved or uncovered soil surfaces, and other pervious areas.
4. Refer to local Hydrology Manual for typical C values.

Note: The impervious and pervious surfaces should equal the total area.

ARR150000 Inspection Form

Appendix B

Inspector Name: _____ Date of Inspection: _____

Inspector Title: _____

Date of Rainfall: _____ Duration of Rainfall: _____

Days Since Last Rain Event: _____ days Rainfall Since Last Rain Event: _____ inches

Description of any Discharges During Inspection: _____

Location of Discharges of Sediment/Other Pollutant (specify pollutant & location): _____

_____

Locations in Need of Additional BMPs: _____

Information on Location of Construction Activities

Location	Activity Begin Date	Activity Occuring Now (y/n)?	Activity Ceased Date	Stabilization Initiated Date	Stabilization Complete Date

Information on BMPs in Need of Maintenance

Location	In Working Order?	Maintenance Scheduled Date	Maintenance Completed Date	Maintenance to be Performed By

Changes required to the SWPPP: _____ Reasons for changes: _____

_____ _____

_____ _____

SWPPP changes completed (date): _____

"I certify under penalty of law that this document and all attachments such as Inspection Form were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the 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, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Responsible or Cognizant Official: _____ Date: _____

Title: _____

BMP Consideration Checklist

Appendix C

The BMPs listed here should be considered for every project. Those BMPs that are not included in the SWPPP should be checked as "Not Used" with a brief statement describing why it is not being used.

Note: Appendix C and D do not have to be submitted with the SWPPP. These attachments are for use during the development of the SWPPP.

EROSION CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
EC-1 Scheduling	☐	☒	☐	
EC-2 Preservation of Existing Vegetation	☐	☒	☐	
EC-3 Hydraulic Mulch	☒	☐	☐	
EC-4 Hydroseeding	☒	☐	☐	
EC-5 Soil Binders	☒	☐	☐	
EC-6 Straw Mulch	☐	☒	☐	
EC-7 Geotextiles & Mats	☒	☐	☐	
EC-8 Wood Mulching	☒	☐	☐	
EC-9 Earth Dikes & Drainage Swales	☒	☐	☐	
EC-10 Velocity Dissipation Devices	☐	☒	☐	
EC-11 Slope Drains	☒	☐	☐	
EC-12 Stream bank Stabilization	☐	☐	☒	No streams present
SEDIMENT CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
SE-1 Silt Fence	☒	☐	☐	
SE-2 Sediment Basin	☒	☐	☐	
SE-3 Sediment Trap	☒	☐	☐	
SE-4 Check Dam	☐	☒	☐	
SE-5 Fiber Rolls	☐	☒	☐	
SE-6 Gravel Bag Berm	☒	☐	☐	
SE-7 Street Sweeping and Vacuuming	☐	☒	☐	
SE-8 Sand Bag Barrier	☒	☐	☐	
SE-9 Straw Bale Barrier	☒	☐	☐	
SE-10 Storm Drain Inlet Protection	☐	☒	☐	
SE-11 Chemical Treatment	☐	☐	☒	N/A
WIND EROSION CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
WE-1 Wind Erosion Control	☐	☒	☐	

BMP Consideration Checklist

Appendix C

TRACKING CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
TR-1 Stabilized Construction Entrance/Exit	☐	☒	☐	
TR-2 Stabilized Construction Roadway	☒	☐	☐	
TR-3 Entrance/Outlet Tire Wash	☒	☐	☐	
NON-STORM WATER MANAGEMENT BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
NS-1 Water Conservation Practices	☐	☒	☐	
NS-2 Dewatering Operations	☐	☒	☐	
NS-3 Paving and Grinding Operations	☐	☒	☐	
NS-4 Temporary Stream Crossing	☐	☐	☒	No streams present
NS-5 Clear Water Diversion	☒	☐	☐	
NS-6 Illicit Connection/ Discharge	☒	☐	☐	
NS-7 Potable Water/Irrigation	☒	☐	☐	
NS-8 Vehicle and Equipment Cleaning	☒	☐	☐	
NS-9 Vehicle and Equipment Fueling	☒	☐	☐	
NS-10 Vehicle and Equipment Maintenance	☒	☐	☐	
NS-11 Pile Driving Operations	☒	☐	☐	
NS-12 Concrete Curing	☐	☒	☐	
NS-13 Concrete Finishing	☐	☒	☐	
NS-14 Material and Equipment Use Over Water	☐	☒	☐	
NS-15 Demolition Adjacent to Water	☐	☒	☐	
NS-16 Temporary Batch Plants	☒	☐	☐	
WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
WM-1 Material Delivery and Storage	☐	☒	☐	
WM-2 Material Use	☐	☒	☐	
WM-3 Stockpile Management	☐	☒	☐	
WM-4 Spill Prevention and Control	☐	☒	☐	
WM-5 Solid Waste Management	☐	☒	☐	
WM-6 Hazardous Waste Management	☐	☒	☐	
WM-7 Contaminated Soil Management	☐	☒	☐	
WM-8 Concrete Waste Management	☐	☒	☐	
WM-9 Sanitary/Septic Waste Management	☐	☒	☐	
WM-10 Liquid Waste Management	☐	☒	☐	

SWPPP Completion Checklist

Appendix D

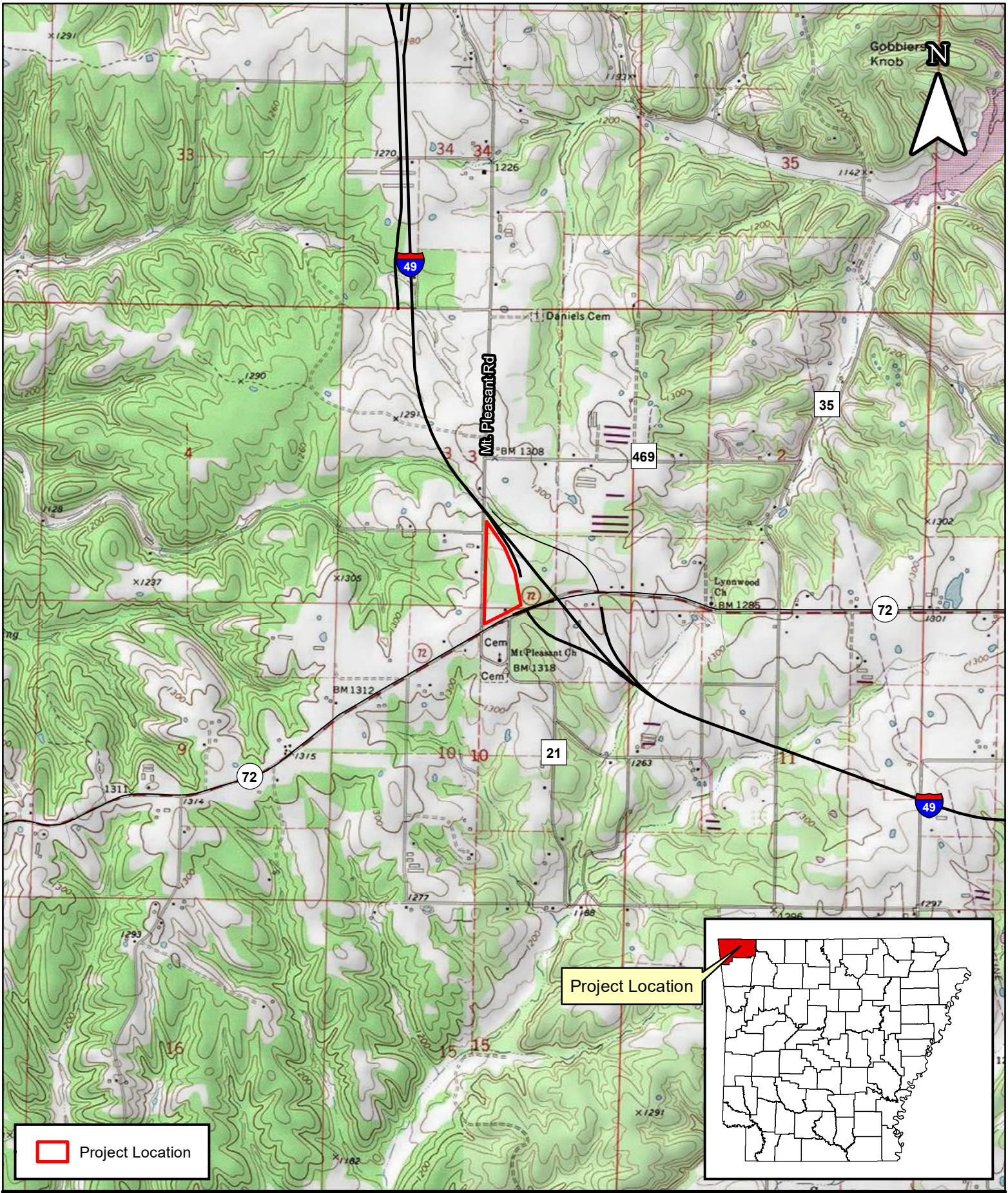
Yes = Complete
No = Incomplete/Deficient
N/A = Not applicable to project

Yes	No	N/A		Permit Section Citation
			A. A site description, including:	
			1. Project description, intended use after NOT	Part II.A.4.A.1
			2. Sequence of major activities	Part II.A.4.A.2
			3. Total & disturbed acreage	Part II.A.4.A.3
			4. Pre- and post-construction runoff coefficient OR soil/discharge data	Part II.A.4.A.4
			B. Responsible Parties: All parties dealing with the SWPPP and the areas they are responsible for on-site.	Part II.A.4.B
			C. Receiving Water.	Part II.A.4.C
			-MS4 Name	Part II.A.4.C
			-Ultimate Receiving Water	Part II.A.4.C
			D. Documentation of permit eligibility related to Impaired Water Bodies and Total Maximum Daily Loads (TMDL	
			1. Identify pollutant on 303(d) list or TMDL	Part II.A.4.D.1
			2. Is construction activity or the specific site listed as cause?	Part II.A.4.D.2
			3. Measures taken to reduce pollutants from the site.	Part II.A.4.D.3
			E. Attainment of Water Quality Standards After Authorization.	Part II.A.4.E
			F. Site Map --- See End of Evaluation Form	Part II.A.4.F
			G. Description of Controls:	
			1. Erosion and sediment controls, including:	
			a. Initial site stabilization	Part II.A.4.G.1.a
			b. Erosion and sediment controls	Part II.A.4.G.1.b
			c. Replacement of inadequate controls	Part II.A.4.G.1.c
			d. Removal of off-site accumulations	Part II.A.4.G.1.d
			e. Maintenance of sediment traps/basins @ 50% capacity	Part II.A.4.G.1.e
			f. Litter, construction debris and chemicals properly handled	Part II.A.4.G.1.f
			g. Off-site storage areas and controls	Part II.A.4.G.1.g
			2. Stabilization practices:	
			a. Description and schedule for stabilization	Part II.A.4.G.2.a
			b. Description of buffer areas	Part II.A.4.G.2.b
			c. Records of stabilization	Part II.A.4.G.2.c
			d. Deadlines for stabilization	Part II.A.4.G.2.d
			3. Structural Practices:	
			-Describe structural practices to divert flows, store flows, or otherwise limit runoff	Part II.A.4.G.3
			a. Sediment basins	Part II.A.4.G.3.a.1
			-Are more than 10 acres draining to a common point? If so, are sediment basins included?	Part II.A.4.G.3.a.1
			-Sediment basin dimensions and capacity description and calculations	Part II.A.4.G.3.a.1
			-If a basin wasn't practicable, are other controls sufficient?	Part II.A.4.G.3.a.1
			b. Velocity dissipation devices concentrated flow from 2 or more acres	Part II.A.4.G.3.b
			H. Other controls including:	
			1. Solid waste control measures	Part II.A.4.H.1
			2. Vehicle off-site tracking controls	Part II.A.4.H.2
			3. Compliance with sanitary waste disposal	Part II.A.4.H.4
			4. Does the site have a concrete washout area controls?	Part II.A.4.H.5
			5. Does the site have fuel storage areas, hazardous waste storage and/or truck wash areas controls?	Part II.A.4.H.6

SWPPP Completion Checklist

Appendix D

Yes	No	N/A		Permit Section Citation
			I. Identification of allowable non-storm water discharges	Part II.A.4.I
			-Appropriate controls for dewatering, if present	Part I.B.12.C
			J. Post construction stormwater management.	Part II.A.4.J
			K. State or local requirements incorporated into the plan.	Part II.A.4.K
			L. Inspections	
			1. Inspection frequency listed?	Part II.A.4.L.1
			2. Inspection form	Part II.A.4.L.2
			Ours.	
			If not ours, does it contain the following items:	
			a. Inspector name and title	Part II.A.4.L.2.a
			b. Date of inspection.	Part II.A.4.L.2.b
			c. Amount of rainfall and days since last rain event (14 day only)	Part II.A.4.L.2.c
			d. Approx beginning and duration of storm event	Part II.A.4.L.2.d
			e. Description of any discharges during inspection	Part II.A.4.L.2.e
			f. Locations of discharges of sediment/other pollutants	Part II.A.4.L.2.f
			g. BMPs in need of maintenance	Part II.A.4.L.2.g
			h. BMPs in working order, if maintenance needed (scheduled and completed)	Part II.A.4.L.2.h
			i. Locations that are in need of additional controls	Part II.A.4.L.2.i
			j. Location and dates when major construction activities begin, occur or cease	Part II.A.4.L.2.j
			k. Signature of responsible/cognizant official	Part II.A.4.L.2.k
			3. Inspection Records	Part II.A.4.L.3
			4. Winter Conditions	Part II.A.4.L.4
			5. Adverse Weather Conditions	Part II.A.4.L.5
			M. Maintenance Procedures	Part II.A.4.M
			N. Employee Training	Part II.A.4.N
			Signed Plan Certification	Part II.A.5. and Part II.B.10
			F. Site Map showing:	
			1. Pre-construction topographic view	Part II.A.4.F.1
			2. Drainage flow	Part II.A.4.F.2
			3. Approximate slopes after grading activities	Part II.A.4.F.2
			4. Areas of soil disturbance and areas not disturbed	Part II.A.4.F.3
			5. Location of major structural and non-structural controls.	Part II.A.4.F.4
			6. Location of main construction entrance and exit.	Part II.A.4.F.5
			7. Areas where stabilization practices are expected to occur.	Part II.A.4.F.6
			8. Locations of off-site materials, waste, borrow area or storage area.	Part II.A.4.F.7
			9. Locations of areas used for concrete wash-out.	Part II.A.4.F.8
			10. Locations of surface waters on site.	Part II.A.4.F.9
			11. Locations where water is discharged to a surface water or MS4.	Part II.A.4.F.10
			12. Storm water discharge locations.	Part II.A.4.F.11
			13. Areas where final stabilization has been accomplished.	Part II.A.4.F.12
			14. Legend for symbols/labels used	Part II.A.4.F.13
			15. Location of storm drain inlets on site or in immediate vicinity	Part II.A.4.F.14



SITE LOCATION MAP

ARDOT - Arkansas Welcome Center
Gravette, Benton County, Arkansas

USGS Topographic Image; ESRI GIS INFORMATION

Lat: 36.432472°
Long: -94.372694°

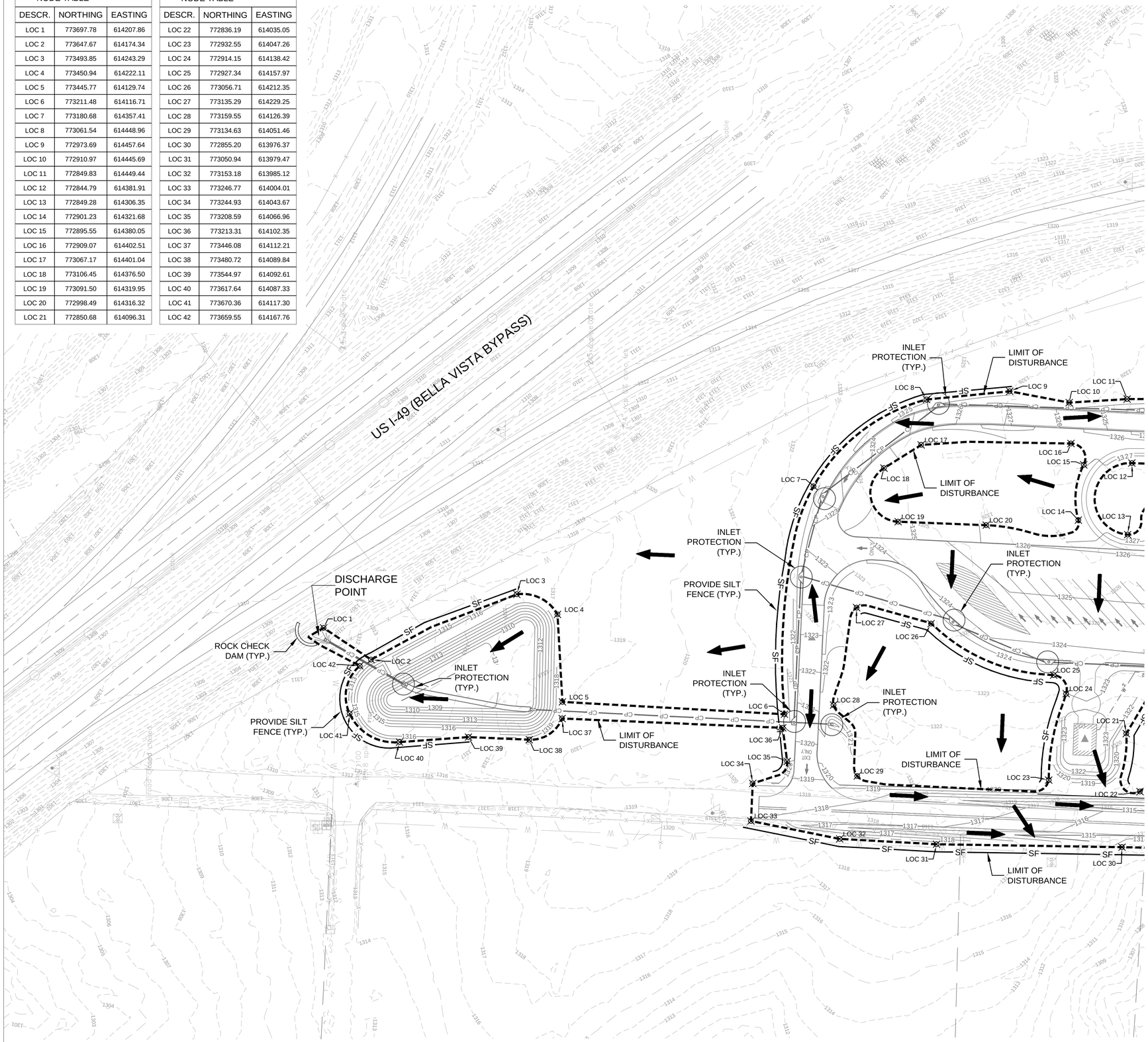
0 0.5
Miles

Figure 1

GARVER

NODE TABLE		
DESCR.	NORTHING	EASTING
LOC 1	773697.78	614207.86
LOC 2	773647.67	614174.34
LOC 3	773493.85	614243.29
LOC 4	773450.94	614222.11
LOC 5	773445.77	614129.74
LOC 6	773211.48	614116.71
LOC 7	773180.68	614357.41
LOC 8	773061.54	614448.96
LOC 9	772973.69	614457.64
LOC 10	772910.97	614445.69
LOC 11	772849.83	614449.44
LOC 12	772844.79	614381.91
LOC 13	772849.28	614306.35
LOC 14	772901.23	614321.68
LOC 15	772895.55	614380.05
LOC 16	772909.07	614402.51
LOC 17	773067.17	614401.04
LOC 18	773106.45	614376.50
LOC 19	773091.50	614319.95
LOC 20	772998.49	614316.32
LOC 21	772850.68	614096.31

NODE TABLE		
DESCR.	NORTHING	EASTING
LOC 22	772836.19	614035.05
LOC 23	772932.55	614047.26
LOC 24	772914.15	614138.42
LOC 25	772927.34	614157.97
LOC 26	773056.71	614212.35
LOC 27	773135.29	614229.25
LOC 28	773159.55	614126.39
LOC 29	773134.63	614051.46
LOC 30	772855.20	613976.37
LOC 31	773050.94	613979.47
LOC 32	773153.18	613985.12
LOC 33	773246.77	614004.01
LOC 34	773244.93	614043.67
LOC 35	773208.59	614066.96
LOC 36	773213.31	614102.35
LOC 37	773446.08	614112.21
LOC 38	773480.72	614089.84
LOC 39	773544.97	614092.61
LOC 40	773670.36	614117.30
LOC 41	773659.55	614167.76
LOC 42		



GENERAL GRADING NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATE EROSION CONTROL MEASURES. THESE MEASURES WILL SATISFY THE REQUIREMENTS OF LITTLE ROCK AIR FOCE BASE AND US ARMY CORPS OF ENGINEERS LITTLE ROCK DISTRICT. EROSION CONTROL DEVICES WILL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
2. HYDROSEED OR SOD, FERTILIZE AND MULCH AREAS DISTURBED BY CONSTRUCTION (EXCEPT AREAS TO BE PAVED). COMPLY WITH THE STANDARDS SET FORTH IN THE THE STANDARD SPECIFICATIONS. SEE LANDSCAPE PLANS/SPECS FOR GROUND COVER REQUIREMENTS.
3. CONTRACTOR SHALL EMPLOY A QUALIFIED MATERIALS TESTING LABORATORY, ACCEPTABLE TO THE ENGINEER, TO PROVIDE TESTING SERVICES DURING CONSTRUCTION. TEST RESULTS SHALL BE PROMPTLY SENT TO THE OWNER/ENGINEER.
4. CONTRACTOR SHALL MAINTAIN BENCHMARKS ON SITE UNTIL THE END OF CONSTRUCTION.
5. IT IS INCUMBENT UPON THE CONTRACTOR TO FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. A TOPOGRAPHIC SURVEY INCLUDING UTILITY ROUTES AND TIE-INS, PAVEMENTS, STRUCTURES, AND GRADES SHALL BE CONDUCTED BY THE CONTRACTOR. SHOULD SIGNIFICANT DISCREPANCIES BE FOUND, IMMEDIATELY NOTIFY THE CONTRACTING OFFICER AND ENGINEER OF RECORD.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL GRADING RELATED PERMITS PRIOR TO BEGINNING EARTHWORK.
7. SITE FILL SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
8. ALL UNPAVED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH APPROPRIATE GROUND COVER. SEE LANDSCAPE PLANS.
9. TOTAL DISTURBED AREA = 10.67 ACRES

LEGEND

- LIMITS OF CONSTRUCTION
- SF — SILT FENCE PROTECTION
- BMP FILTER SOCK INLET PROTECTION
- ROCK CHECK DAM
- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- CONCRETE WASHOUT
- FLOW ARROWS

N

0 25' 50' 100' 150'

SCALE: 1" = 50'

GARVER

REV	DATE	DESCRIPTION	BY

ARDOT

ArDOT - ARKANSAS WELCOME CENTER
I-49 AND AR HWY 72 GRAVETTE, ARKANSAS

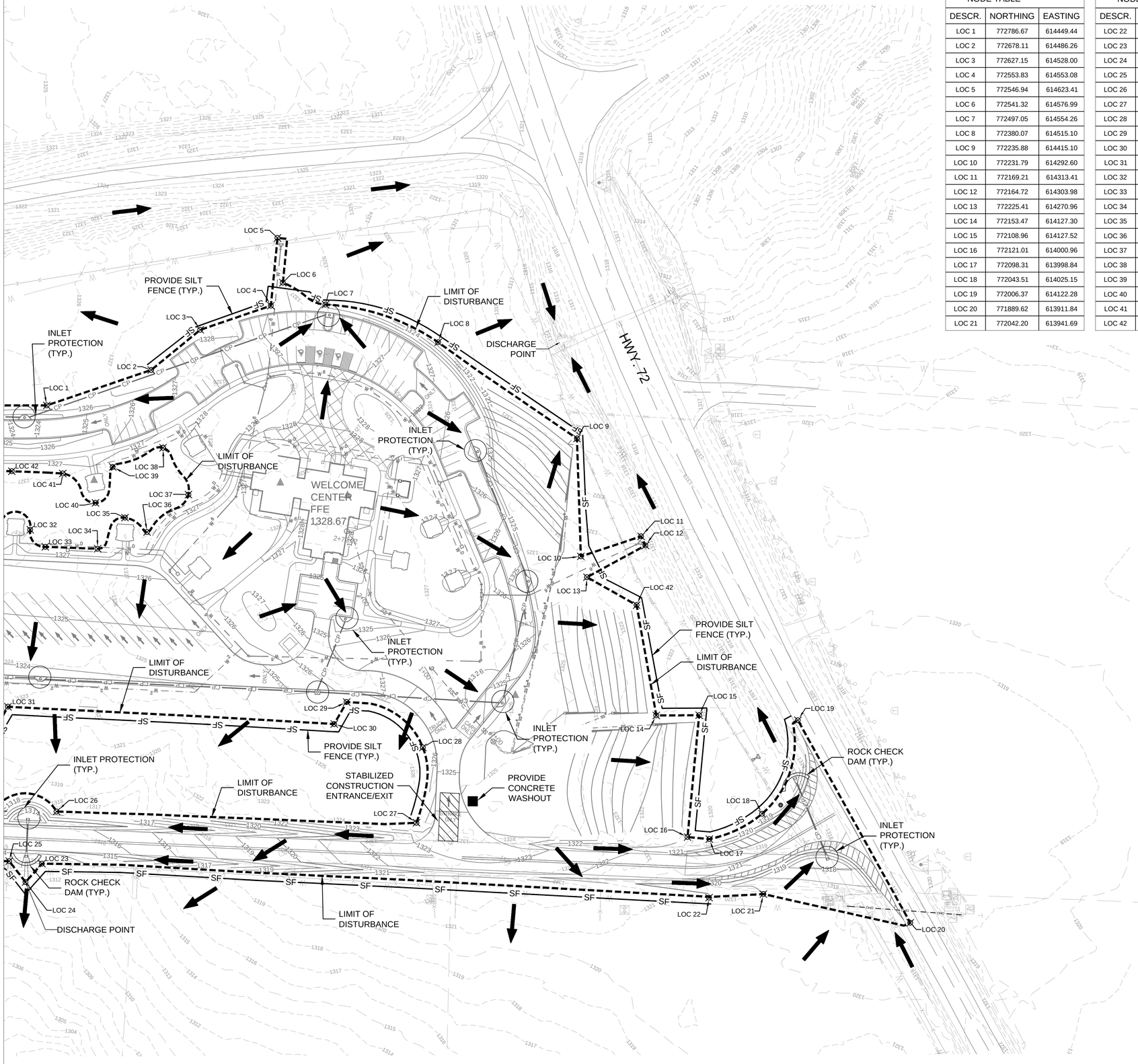
EROSION CONTROL PLAN

JOB NO.: 21B00220
DATE: MARCH 31, 2023
DESIGNED BY: TCG
DRAWN BY: TDB

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-131

100% CONSTRUCTION DOCUMENTS SUBMITTAL



NODE TABLE		
DESCR.	NORTHING	EASTING
LOC 1	772786.67	614449.44
LOC 2	772678.11	614486.26
LOC 3	772627.15	614528.00
LOC 4	772553.83	614553.08
LOC 5	772546.94	614623.41
LOC 6	772541.32	614576.99
LOC 7	772497.05	614554.26
LOC 8	772380.07	614515.10
LOC 9	772235.88	614415.10
LOC 10	772231.79	614292.60
LOC 11	772169.21	614313.41
LOC 12	772164.72	614303.98
LOC 13	772225.41	614270.96
LOC 14	772153.47	614127.30
LOC 15	772108.96	614127.52
LOC 16	772121.01	614000.96
LOC 17	772098.31	613998.84
LOC 18	772043.51	614025.15
LOC 19	772006.37	614122.28
LOC 20	771889.62	613911.84
LOC 21	772042.20	613941.69

NODE TABLE		
DESCR.	NORTHING	EASTING
LOC 22	772098.61	613938.00
LOC 23	772791.64	613973.26
LOC 24	772808.64	613954.14
LOC 25	772825.63	613975.90
LOC 26	772776.38	614027.46
LOC 27	772402.56	614015.78
LOC 28	772395.88	614094.03
LOC 29	772475.05	614141.20
LOC 30	772488.04	614118.40
LOC 31	772826.87	614136.30
LOC 32	772803.80	614320.27
LOC 33	772788.19	614302.52
LOC 34	772733.76	614300.53
LOC 35	772705.34	614332.83
LOC 36	772682.42	614317.84
LOC 37	772639.45	614356.75
LOC 38	772665.84	614405.39
LOC 39	772718.12	614385.50
LOC 40	772736.01	614348.17
LOC 41	772769.99	614378.74
LOC 42	772822.92	614381.05

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LEGEND

- LIMITS OF CONSTRUCTION
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- BMP FILTER SOCK INLET PROTECTION
- ROCK CHECK DAM
- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- CONCRETE WASHOUT
- FLOW ARROWS

N

0 25' 50' 100' 150'

SCALE: 1" = 50'

GARVER

REV	DATE	DESCRIPTION	BY

ARDOT

ArDOT - ARKANSAS WELCOME CENTER
I-49 AND AR HWY 72 GRAVETTE, ARKANSAS

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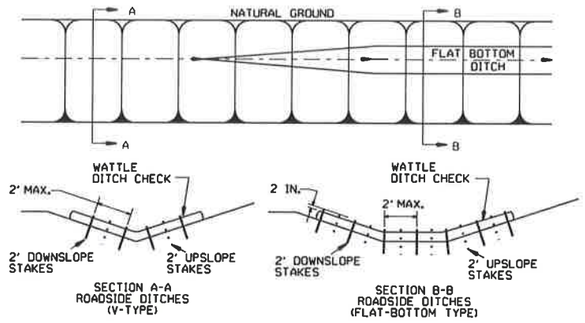
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
C-132

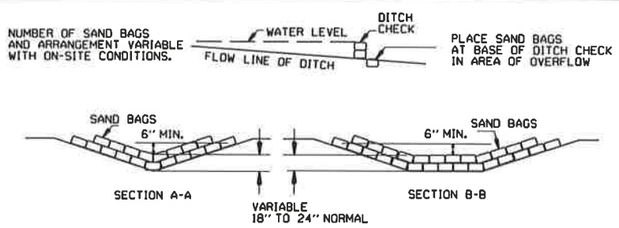
100% CONSTRUCTION DOCUMENTS SUBMITTAL

GENERAL NOTES

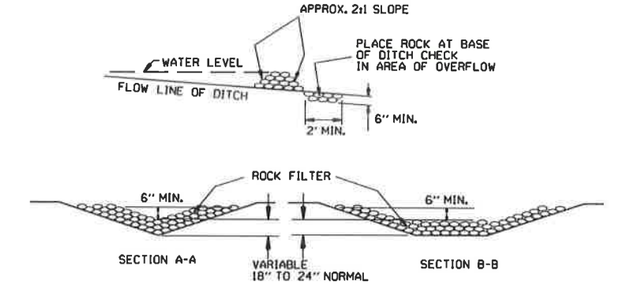
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

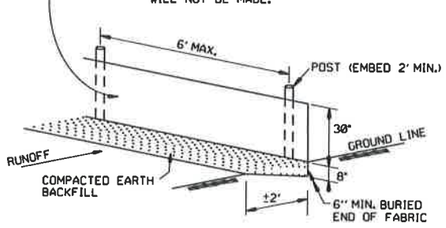


ROCK DITCH CHECK (E-6)

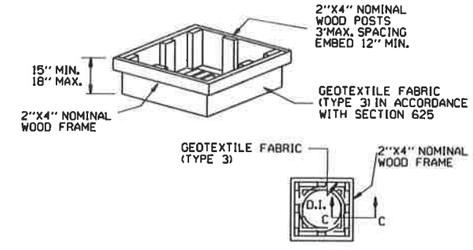
GENERAL NOTES

GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

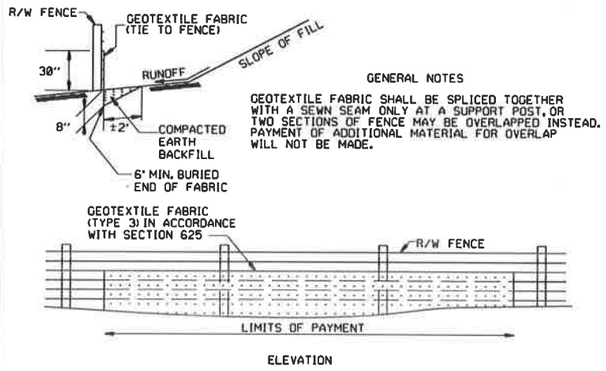
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



SILT FENCE (E-11)



DROP INLET SILT FENCE (E-7)



GENERAL NOTES

GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

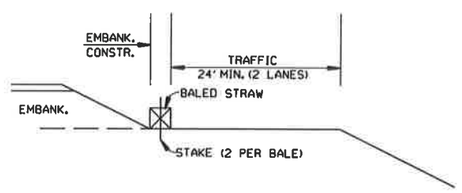
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

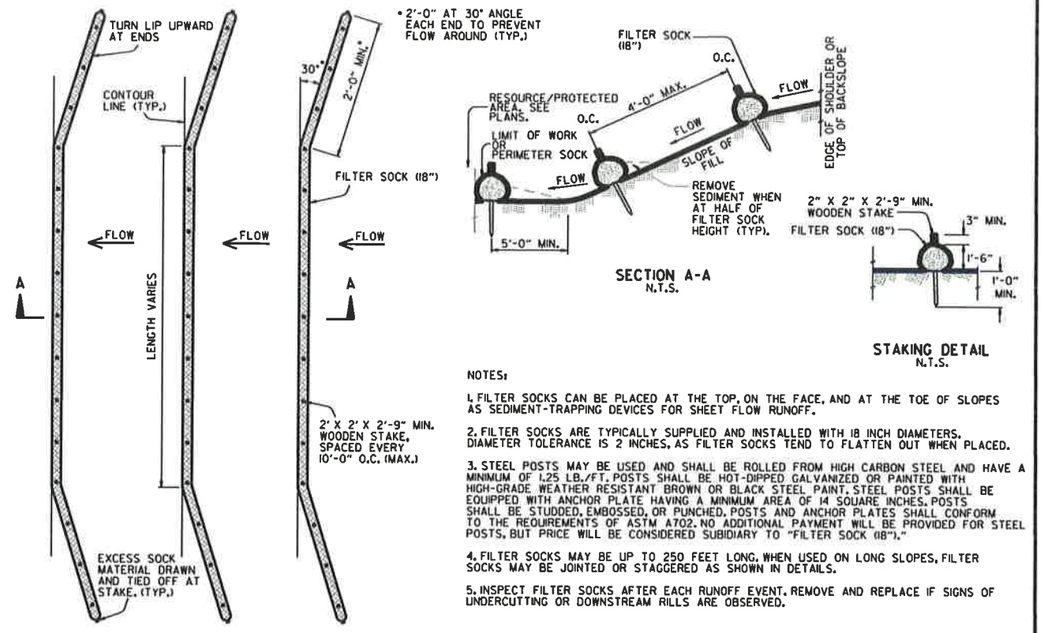
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

2. NO GAPS SHALL BE LEFT BETWEEN BALES.

3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



BALED STRAW FILTER BARRIER (E-2)



NOTES:

1. FILTER SOCKS CAN BE PLACED AT THE TOP, ON THE FACE, AND AT THE TOE OF SLOPES AS SEDIMENT-TRAPPING DEVICES FOR SHEET FLOW RUNOFF.

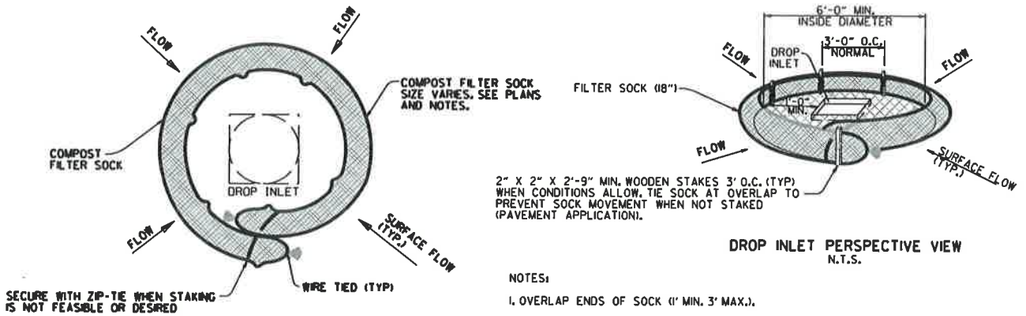
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB./FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH-GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR STEEL POSTS, BUT PRICE WILL BE CONSIDERED SUBIDIARY TO "FILTER SOCK (18")."

4. FILTER SOCKS MAY BE UP TO 250 FEET LONG. WHEN USED ON LONG SLOPES, FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.

5. INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.

FILTER SOCK ALONG SLOPE (E-3)



NOTES:

1. OVERLAP ENDS OF SOCK (1' MIN. 3' MAX.).

2. USE 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

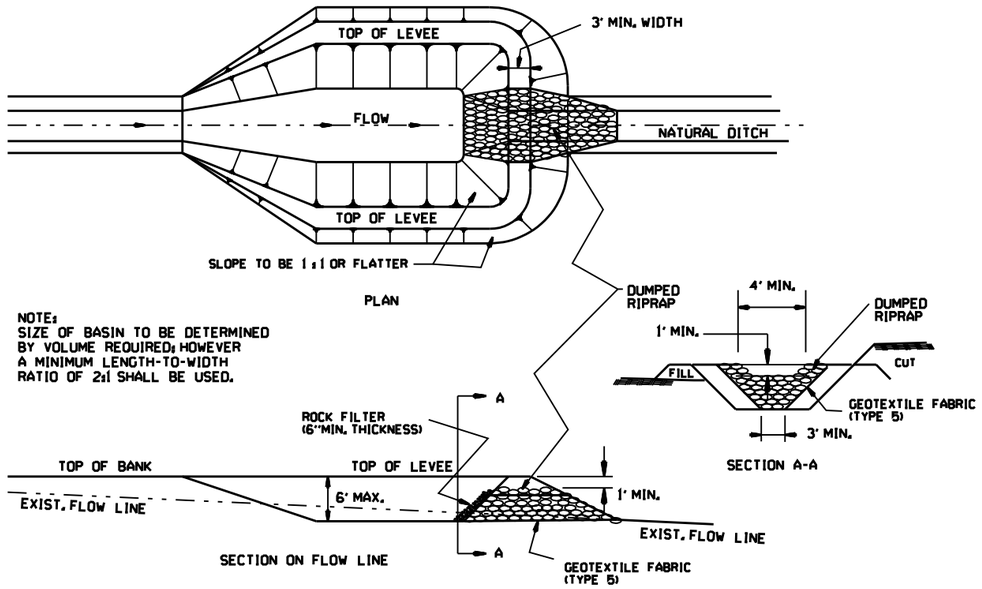
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

DATE	REVISION	FILMED
11-16-17	ADDED FILTER SOCK E-3 AND E-13	
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
11-18-98	ADDED NOTES	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
07-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
07-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC	
06-02-94	REVISED E-1,4,7 & 11; DELETED E-2 & 3	6-2-94
04-01-93	REDRAWN	
10-01-92	REDRAWN	
08-02-76	ISSUED R.D.M.	298-7-28-76

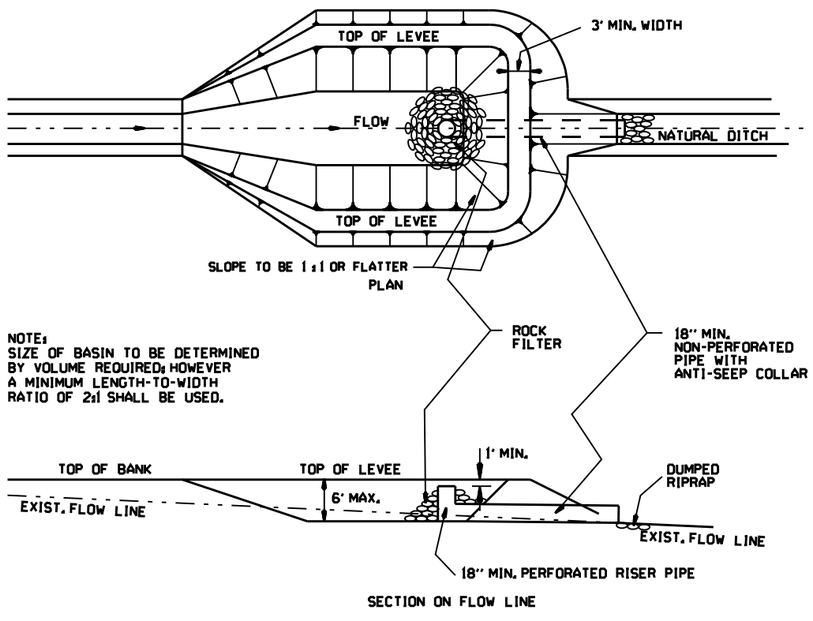
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

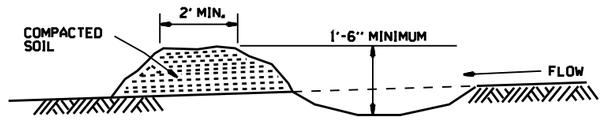
STANDARD DRAWING TEC-1



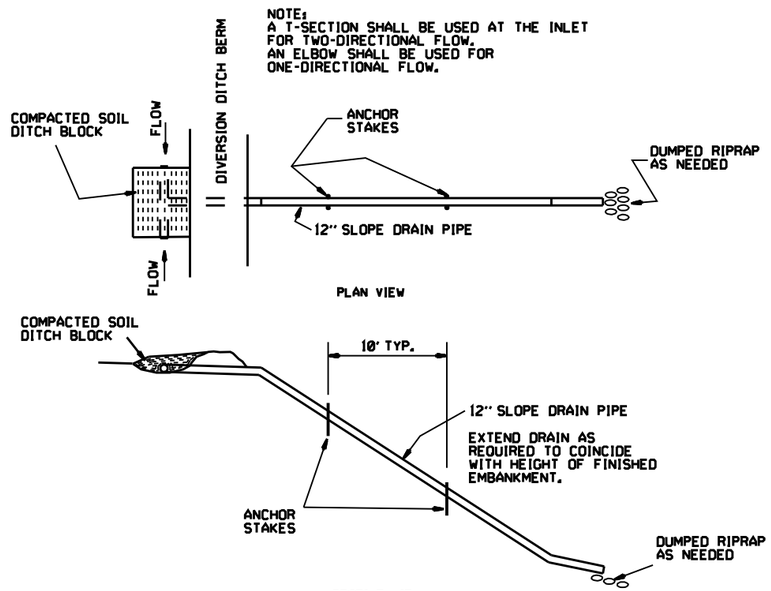
SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



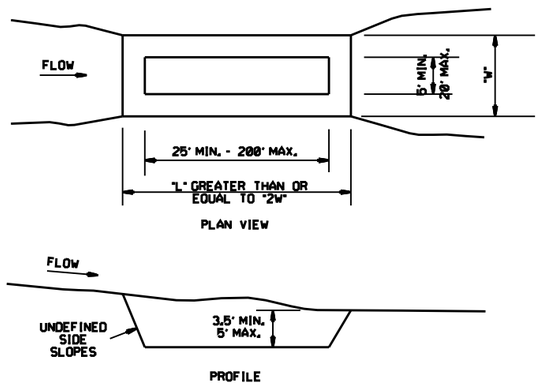
SEDIMENT BASIN WITH PIPE OUTLET (E-10)



DIVERSION DITCH (E-8)



SLOPE DRAIN (E-12)



SEDIMENT BASIN (E-14)

DATE	REVISION	FILMED
6-2-94	Revised E-8 & E-12; Added E-14 & Deleted E-13	
4-1-93	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

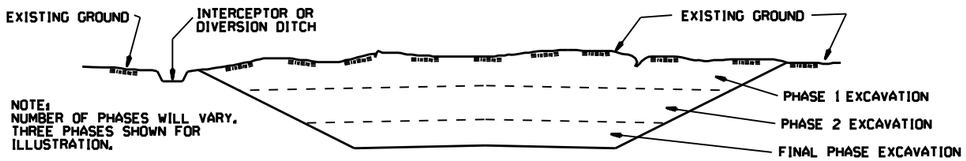
STANDARD DRAWING TEC-2

CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE

1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES , DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION



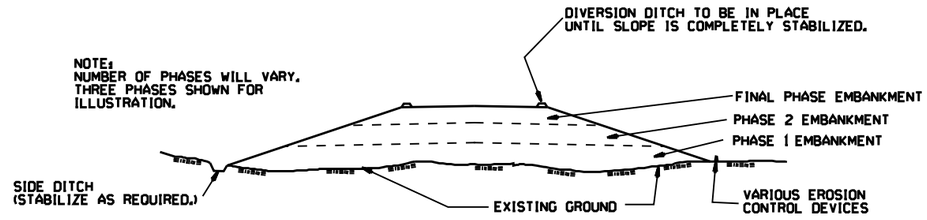
GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT



GENERAL NOTE

ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

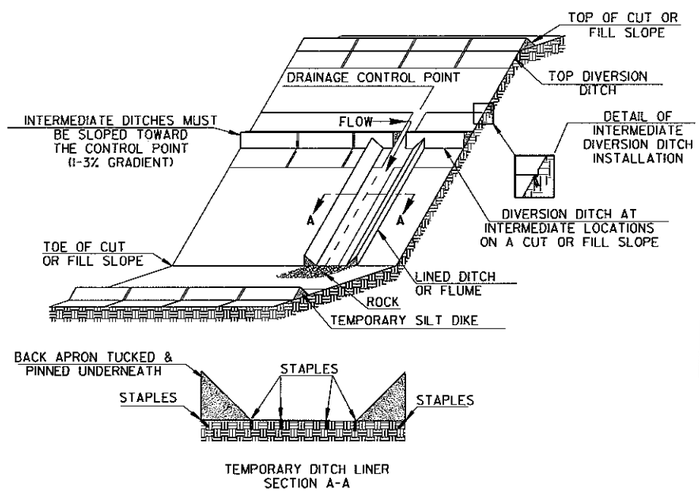
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

DATE	REVISION	FILMED
11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94

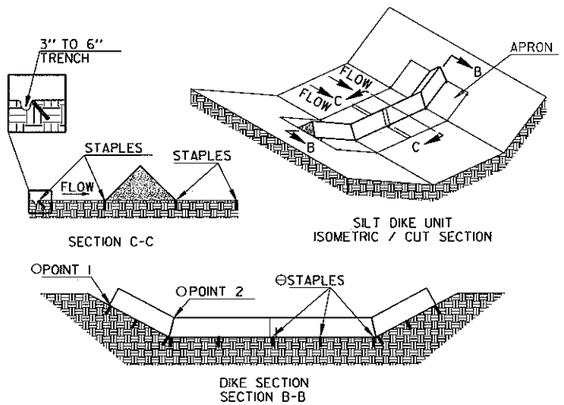
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-3



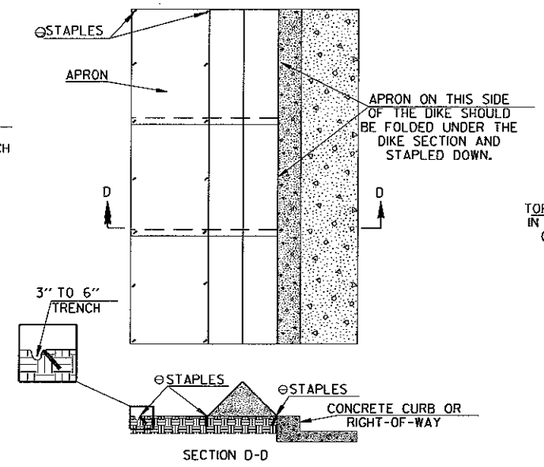
TRIANGULAR SILT DIKE INSTALLATION
FOR
DIVERSION DITCH AND/OR DITCH LINER



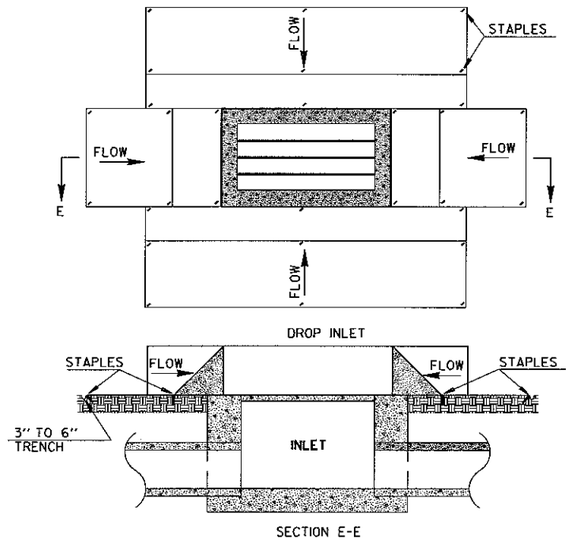
TRIANGULAR SILT DIKE INSTALLATION
FOR
ROADWAY DITCH OR DRAINAGE DITCH

○ POINT "1" MUST BE HIGHER THAN POINT "2" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

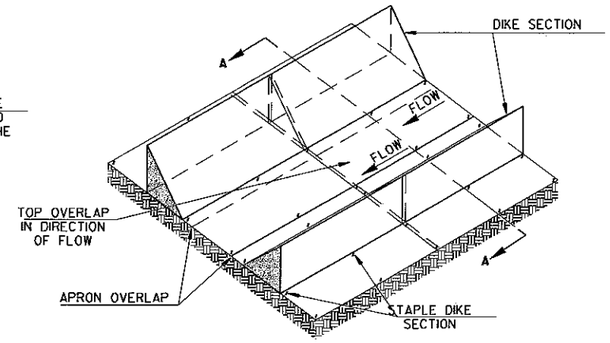
⊖ STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT AS SHOWN ON THE DIAGRAM.



TRIANGULAR SILT DIKE INSTALLATION
FOR
CONTINUOUS BARRIER



TRIANGULAR SILT DIKE INSTALLATION
FOR
DROP INLETS



TRIANGULAR SILT DIKE INSTALLATION
FOR
TEMPORARY DITCH LINER

GENERAL NOTES

1. THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, AND MAINTAINING THE TRIANGULAR SILT DIKE. THE DIKES SHALL BE USED AS A CONTINUOUS LINE BARRIER AT THE TOE OF SLOPE OR ACROSS THE ROADWAY DITCH TO CONTAIN SEDIMENT AND MINIMIZE EROSION, OR AS DIRECTED BY THE ENGINEER. THESE DIKES SHALL BE INSTALLED AND LOCATED AS SOON AS CONSTRUCTION WILL ALLOW OR AS DIRECTED BY THE ENGINEER.

2. TRIANGULAR SILT DIKE SHALL BE TRIANGULAR SHAPED HAVING A HEIGHT OF AT LEAST 8" TO 10" IN THE CENTER WITH EQUAL SIDES AND A 16" TO 20" BASE. THE TRIANGULAR SHAPED INNER MATERIAL SHALL BE URETHANE FOAM. THE OUTER COVER SHALL BE A WOVEN GEOTEXTILE FABRIC PLACED AROUND THE INNER MATERIAL & ALLOWED TO EXTEND BEYOND BOTH SIDES OF THE TRIANGLE 24" TO 36". THIS FABRIC SHOULD BE MILDEW RESISTANT, ROT-PROOF AND RESISTANT TO HEAT AND ULTRAVIOLET RADIATION MEETING REQUIREMENTS FOR SEDIMENT CONTROL IN AASHTO M288. THE DIKES SHALL BE ATTACHED TO THE GROUND WITH WIRE STAPLES. THE STAPLES SHALL BE NO. 11 GAUGE WIRE AND BE AT LEAST 6" TO 8" LONG. STAPLES SHALL BE PLACED AS SHOWN ON THESE DETAILS.

   THE CONTRACTOR SHALL INSPECT ALL DIKES AFTER EACH RAINFALL EVENT OF AT LEAST 0.5" OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR. ACCUMULATED SILT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE DIKES ARE DAMAGED OR INADVERTENTLY MOVED DURING THE SILT REMOVAL PROCESS, THE CONTRACTOR SHALL IMMEDIATELY REPLACE AFTER DAMAGE OCCURS.

3. ACCEPTED TRIANGULAR SILT DIKE, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR TRIANGULAR SILT DIKE. PRICE BID WILL INCLUDE THE COST OF FURNISHING THE DIKES, INSTALLING, MAINTAINING AND REMOVAL WHEN DIRECTED BY THE ENGINEER.

SYMBOLOGY

SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS

NOTE: SILT DIKE SHOULD ONLY BE USED FOR DROP INLETS IN SUMP LOCATIONS.

DATE	REVISION	FILMED
7-26-12	REVISED GENERAL NOTE 2.	
12-15-11	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-4