

**DUNN UTILITY PRODUCTS – NEW ALBANY PLANT  
DUNN BUILDING COMPANY, LLC  
NEW ALBANY, MISSISSIPPI**

**STORM WATER POLLUTION PREVENTION PLAN**

**May 19, 2022**

**PROJECT INFORMATION**

This project consists of sitework and building improvements associated with the Dunn Utility Products – New Albany Plant, located in New Albany, MS. This plant will be a precast concrete facility and will occupy an existing onsite building. The plant building is currently a shell building that will be modified to accommodate the plant facility. The owner will construct a ready-mix concrete batch plant as part of the project and has already obtained a Certificate of Coverage for plant operation (MSG110343).

Sitework improvements associated with the project include earthwork & grading, drainage improvements, utility improvements, roadway construction, and minor site paving. The proposed access road, employee parking area, and storage yard are to receive 6" of crushed limestone surface. An additional ADA/visitor parking area adjacent to the building, along with a driveway pad at the access road entrance, will be concrete pavement.

Disturbed area associated with sitework and building improvements will be approximately 7 acres.

**SITE INFORMATION**

The project site is located at 2400 Munsford Drive, New Albany, MS, 38652 (Section 11, Township 7 South, Range 2 East). Site topography is generally flat, with slopes ranging from 0% to 5%. Site soils are non-hydric per USGS Web Soil Survey. Drainage generally flows east to west towards Hell Creek. An existing drainage swale flows through the project site in a southwesterly direction, conveying upstream stormwater runoff through the site. An existing site access road crosses this swale and has an 18" concrete culvert to convey water beneath the roadway. An additional drainage swale runs around the east and south sides of the existing building/pad and conveys upstream storm water runoff in an easterly direction towards Hell Creek.

**CONTROLS**

**Vegetative Controls:**

1. Temporary Seeding: Disturbed areas where construction activities have ceased for fourteen or more days will be immediately seeded (temporary seeding). Immediately is defined as no later than the next working day.
2. Permanent Seeding (Vegetation): Within seven (7) days following completion of construction activities, disturbed areas will be stabilized with permanent seeding (vegetation).

**Structural Controls:**

1. Limestone Construction Entrances: Limestone construction entrances shall be constructed at specified locations to reduce transport of sediments onto public and private roadways.
2. 20" Straw Wattles: 20" straw wattles shall be installed along the flowlines of existing and proposed drainage swales to reduce sediment transport along said swales.
3. Riprap Check Dams: Riprap check dams shall be installed along the flowlines of existing and proposed drainage swales to prevent sediment transport along said swales.

4. Silt Fence: Silt fence shall be installed around perimeter of construction area to prevent sediment transport from construction site.
5. Sedimentation Basins: Sedimentation basins shall be installed at drainage points (boundaries of land disturbing activities) to capture storm water runoff from the site and allow for sediments to settle-out prior to discharging from the site. Diversion swales shall be constructed to direct storm water runoff from disturbed areas to basin locations. Faircloth skimmers shall be utilized for sedimentation basin outlet structures.
6. Erosion Control Blanket: Erosion control blanket shall be installed on cut/fill slopes 3:1 or steeper.

### **IMPLEMENTATION SEQUENCE**

1. Install structural controls prior to commencement of construction activities.
2. During construction activities, stabilize disturbed areas by temporary seeding.
3. Following completion of construction activities, stabilize disturbed areas by establishment of permanent vegetation.
4. Following completion of construction activities and permanent site stabilization, remove temporary erosion control devices.

### **STREAMS AND WETLANDS**

#### **Little Tallahatchie River (901711):**

1. Existing Conditions: The project receiving stream (Hell Creek) flows in a southerly direction, discharging into the Little Tallahatchie River approximately two (2) miles south of the project site. Segments of the Little Tallahatchie River downstream of the Hell Creek and Little Tallahatchie River confluence have been identified as impaired due to sediment loading. Point sources of sediment loading include soil erosion from various land use activities within watershed, and in-channel processes. Nonpoint sources include agriculture, rangeland, construction site, etc.
2. Action: Implementation of onsite BMP's will prevent additional sediment from leaving the project site and entering Hell Creek/Little Tallahatchie River, resulting in no impact to stream sediment load from project construction activities. BMP's will include onsite structural controls (wattles, riprap check dams, erosion control blanket, and perimeter silt fencing) to prevent inflow of sediments into existing streams and waterways. Additional BMP's will include the installation of a sedimentation basin at the drainage point between disturbed and non-disturbed areas to prevent inflow of sediments into existing streams and waterways.

***Contractor shall maintain minimum 50' buffer between construction areas and existing streams and waterways.***

#### **Onsite Wetlands:**

1. Existing Conditions: There are no existing wetlands or hydric soils within the project area.

***Contractor shall maintain minimum 50' buffer between construction areas and existing wetland areas.***

### **Non-Jurisdictional Streams:**

1. The project will not cross or fill any non-jurisdictional streams (Waters of the State).

***Contractor shall maintain minimum 50' buffer between construction areas and existing streams and waterways.***

### **HOUSEKEEPING PRACTICES**

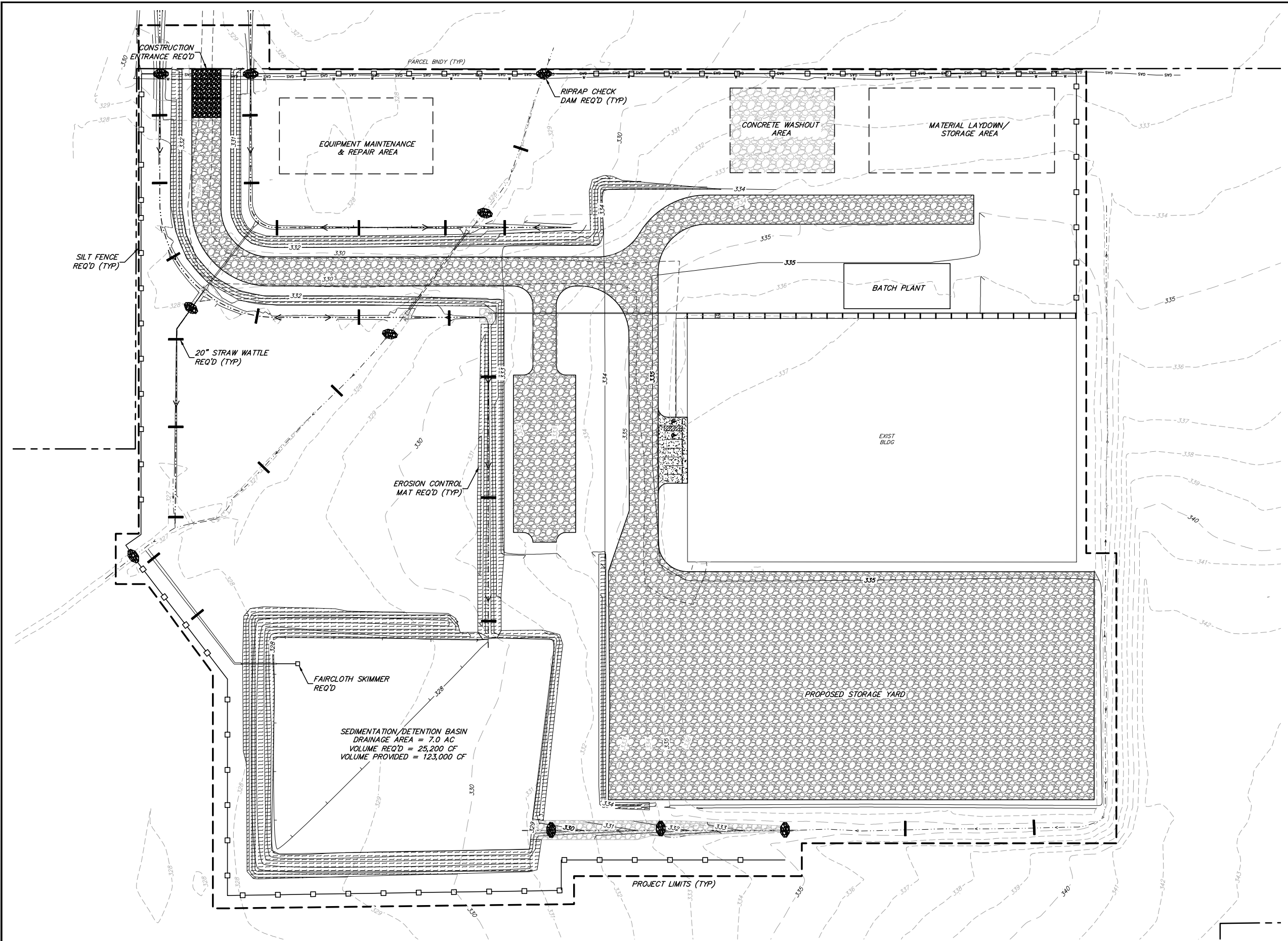
1. Equipment maintenance and repair shall be completed in the designated equipment maintenance and repair area.
2. Contractor shall store materials & building supplies in designated laydown & storage area. Contractor shall store materials in their original containers and shall provide protected storage areas for chemicals, paints, solvents, fertilizers, and other potentially toxic materials.
3. Contractor shall utilize concrete washout area to wash off concrete truck chutes. Washout area shall also be utilized for equipment washdown.
4. Contractor shall remove and properly dispose of any sediment accumulations on public and private roadways.
5. Site inspections should be performed weekly and/or after a rainfall event than  $\frac{1}{2}$  inch or greater or that produce a discharge.
6. After each site inspection an inspection form should be filled out and kept on file by the contractor.

### **MAINTENANCE PLAN**

1. Non-functioning controls shall be repaired, replaced, or supplemented with functional controls within 24 hours of discovery or as soon as field conditions allow.
2. Accumulated sediment that has been trapped by structural controls shall be removed and properly disposed of onsite when it has reached  $\frac{1}{2}$  to  $\frac{1}{3}$  height of control structure.
3. Accumulated sediments in sedimentation basins shall be removed and properly disposed of onsite when it has reached 50% capacity of sedimentation basin.

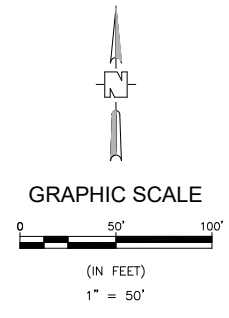
### **PROHIBITED DISCHARGES**

1. Wastewater from washout of concrete (unless managed by an appropriate control).
2. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.
3. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance.
4. Soaps or solvents used in vehicle and equipment washing.
5. Wastewater from sanitary facilities, including portable toilets.
6. Contaminated discharge waters from dewatering activities.
7. Toxic or hazardous substances from a spill or other release.



**NOTES:**

1. EROSION CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR RESPONSIBLE FOR INSTALLING ADDITIONAL BMP'S AS REQUIRED TO CONTROL ONSITE EROSION AND TO PREVENT OFFSITE SEDIMENT TRANSPORT.
2. SEDIMENTATION BASIN VOLUMES CALCULATED BASED ON MINIMUM 2' DEPTH, WITH 1.0' FREEBOARD PROVIDED.
3. SEDIMENTATION BASIN DISCHARGE PIPES TO MATCH BASIN BOTTOM ELEVATION.
4. EROSION CONTROL BLANKET IS TO BE INSTALLED ON ANY CUT/FILL SLOPES 3:1 OR STEEPER.
5. CONTRACTOR RESPONSIBLE FOR ESTABLISHMENT AND MAINTENANCE OF PERMANENT VEGETATION (GRASSING) AS REQUIRED FOR SITE STABILIZATION. REESTABLISHMENT OF PERMANENT VEGETATION (GRASSING) ON A SEASONAL BASIS SHALL BE INCLUDED AS PART OF THIS WORK.
6. CONTRACTOR SHALL SUBMIT PROPOSED SEEDING SCHEDULE TO OWNER FOR ACCEPTANCE PRIOR TO SEEDING ACTIVITIES. SEEDING TYPES AND APPLICATION RATES SHALL BE IN ACCORDANCE WITH THE MDEQ MISSISSIPPI STORM WATER POLLUTION PREVENTION PLAN (SWPPP) GUIDANCE MANUAL FOR CONSTRUCTION ACTIVITIES, OR APPROVED EQUAL.
7. CONTRACTOR RESPONSIBLE FOR SIZING FAIRCLOTH SKIMMERS. FAIRCLOTH SKIMMERS SHALL BE SIZED TO DEWATER SEDIMENTATION BASINS IN THREE (3) DAYS.
8. CONTRACTOR RESPONSIBLE FOR PROVIDING AND INSTALLING FITTINGS AS REQUIRED TO CONNECT FAIRCLOTH SKIMMER TO BASIN DISCHARGE PIPE.
9. FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES AND PERMANENT SITE STABILIZATION, CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENTS FROM SEDIMENTATION/DETENTION BASIN AND RESTORE BASIN TO ORIGINAL DESIGN GRADES & DIMENSIONS. CONTRACTOR SHALL RE-ESTABLISH PERMANENT VEGETATION IN DISTURBED AREAS OF SEDIMENTATION/DETENTION BASIN.



**NOTICE TO DRAWING HOLDER**  
 CIVIL LINK, LLC, HERINAFTER REFERRED TO AS ENGINEER, HAS PREPARED & FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY & HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES & EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS			
NO.	DATE	BY	DESCRIPTION
3	9/1/21	JBH	ADDED TBM 1

DRAWING INFORMATION	
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SCALE:	1" = 100'
SURVEYED BY:	###
DGSN:	JBH DATE: 5/16/22
DRWN:	### DATE: ###
CHKD:	### DATE: ###

**DUNN UTILITY SITE IMPROVEMENTS**  
 DUNN BUILDING COMPANY, LLC  
 NEW ALBANY, MS



EROSION CONTROL	
WORKING NUMBER:	DRAWING NUMBER:
XXXX	8

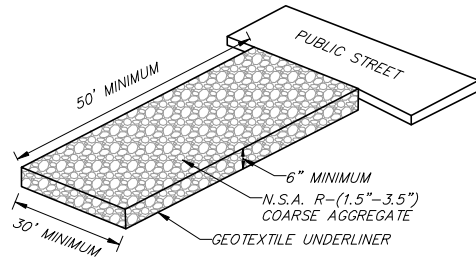
DUNN BUILDING COMPANY, LLC

DUNN UTILITY SITE IMPROVEMENTS

**DEFINITION** - A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

**PURPOSE** - TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.

**CONDITIONS WHERE PRACTICE APPLIES** - WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVE DIRECTLY ONTO A PUBLIC ROAD OR OTHER PAVED AREA.



**CONSTRUCTION EGRESS**

NOT TO SCALE

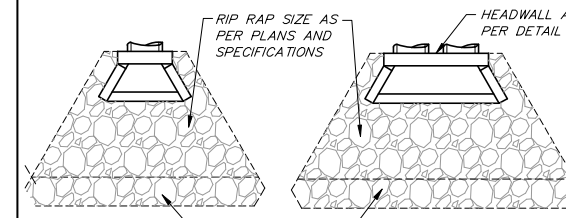
**PLANNING CONSIDERATIONS** - GENERAL CRITERIA REQUIRES THAT ROADS ADJACENT TO A CONSTRUCTION SITE SHALL BE CLEAN AT THE END OF EACH DAY. CONSTRUCTION ENTRANCES PROVIDE AN AREA WHERE MUD CAN BE REMOVED FROM CONSTRUCTION VEHICLE TIRES BEFORE THEY ENTER A PUBLIC ROAD. IF THE ACTION OF VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE. CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY CONSTRUCTION VEHICLES.

**DESIGN CRITERIA**

1. AGGREGATE SIZE- MDOT AGGREGATE (2-3 INCH STONE) SHOULD BE USED.
2. ENTRANCE DIMENSIONS- THE AGGREGATE LAYER MUST BE AT LEAST 6 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET.
3. WASHING- IF CONDITIONS ON THE SITE ARE SUCH THAT THE MAJORITY OF THE MUD IS NOT REMOVED BY THE VEHICLES TRAVELING OVER THE GRAVEL, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
4. LOCATION- THE ENTRANCE SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.

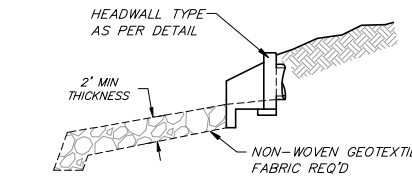
**CONSTRUCTION SPECIFICATIONS** - THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

**MAINTENANCE** - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANEST OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.



**SINGLE BARRELL**

**TWIN BARRELL**



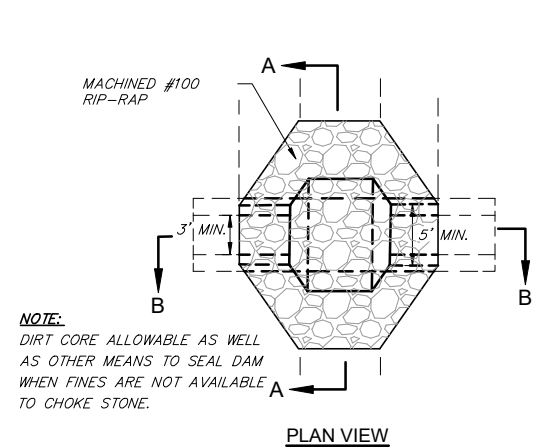
**SECTION**

**RIP RAP PLACEMENT**

N.T.S.

**NOTES:**

1. RIPRAP LAYOUT AND DIMENSIONS PER PLANS.
2. HEADWALLS NOT REQ'D.

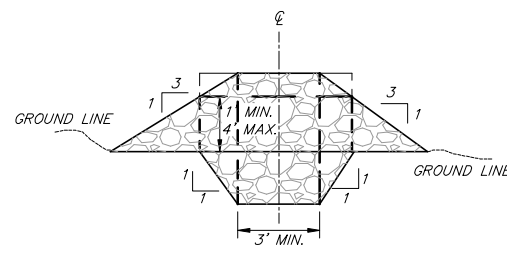


**PLAN VIEW**

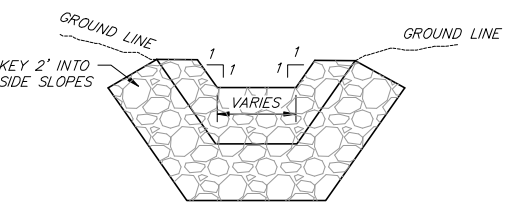
EROSION CONTROL PLAN LEGEND:  
(STONE CHECK DAM)

**STONE CHECK DAM**

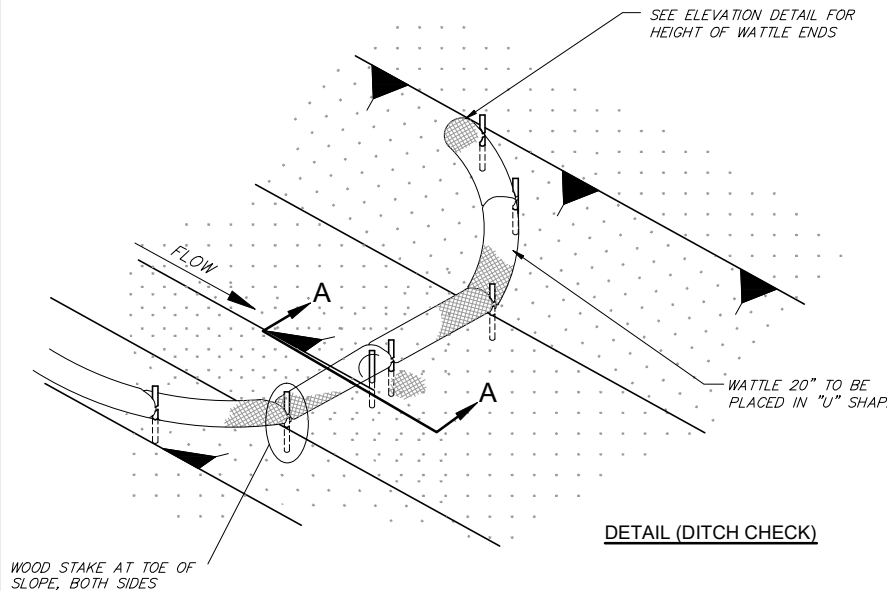
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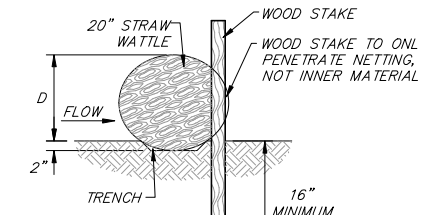
**SECTION A-A**



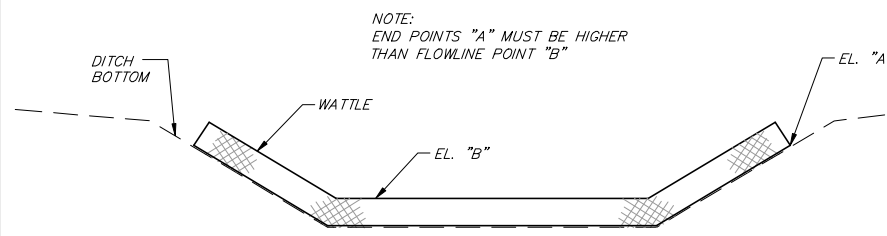
**SECTION B-B  
UPSTREAM ELEVATION**



**DETAIL (DITCH CHECK)**



**SECTION VIEW  
TYPICAL INSTALLATION**



**ELEVATION VIEW  
(DITCH CHECK)**

**NOTES:**

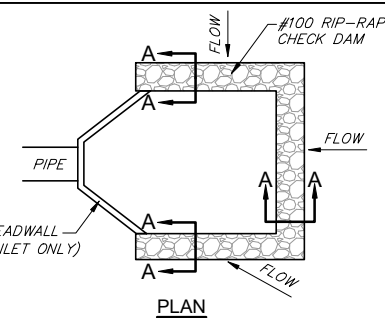
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER.
2. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
3. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.

**WATTLE DITCH CHECK SELECTION GUIDELINES**

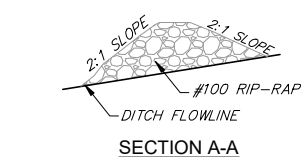
WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.

**STRAW WATTLE INSTALLATION DETAIL**

NOT TO SCALE



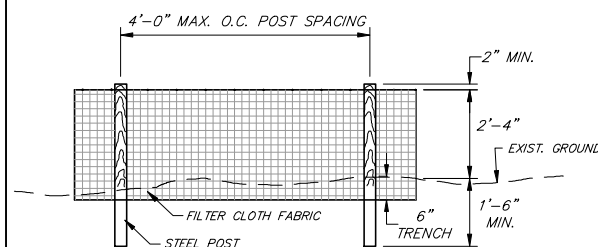
**PLAN**



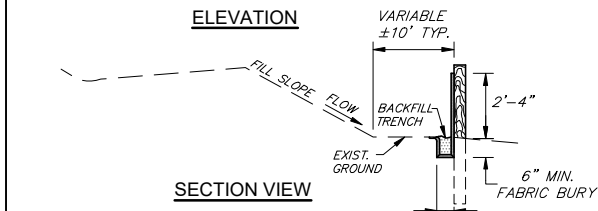
**SECTION A-A**

**STONE CHECK DAM @ PIPE INLETS**

NOT TO SCALE



**ELEVATION**



**SECTION VIEW**

**TEMPORARY SILT FENCE**

NOT TO SCALE

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

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DSGN:	JBH DATE: 5/20/22
DRWN:	DATE:
CHKD:	DATE:

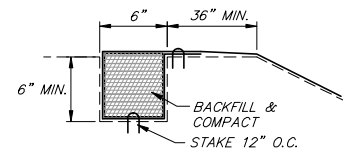
DUNN UTILITY SITE IMPROVEMENTS  
DUNN BUILDING COMPANY, LLC  
NEW ALBANY, MS



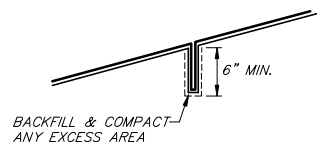
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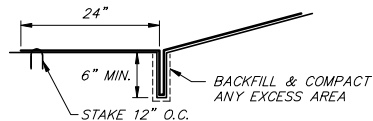
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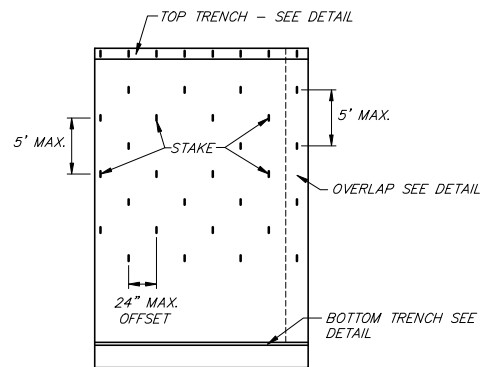
DETAIL OF TOP TRENCH



DETAIL OF INTERMEDIATE TRENCH

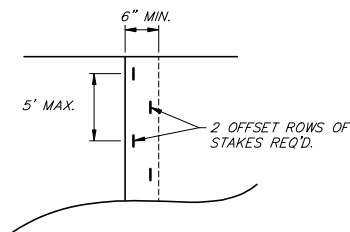


DETAIL OF BOTTOM TRENCH

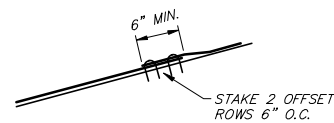


DETAIL OF EROSION CONTROL BLANKET

EROSION CONTROL BLANKET  
NOT TO SCALE ECB-1



DETAIL OF LONGITUDINAL OVERLAP



DETAIL OF TRANSVERSE OVERLAP

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				SURVEYED BY:	
				DSGN:	JBH DATE: 5/20/22
				DRWN:	DATE:
				CHKD:	DATE:

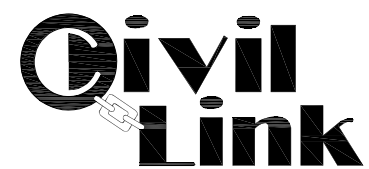
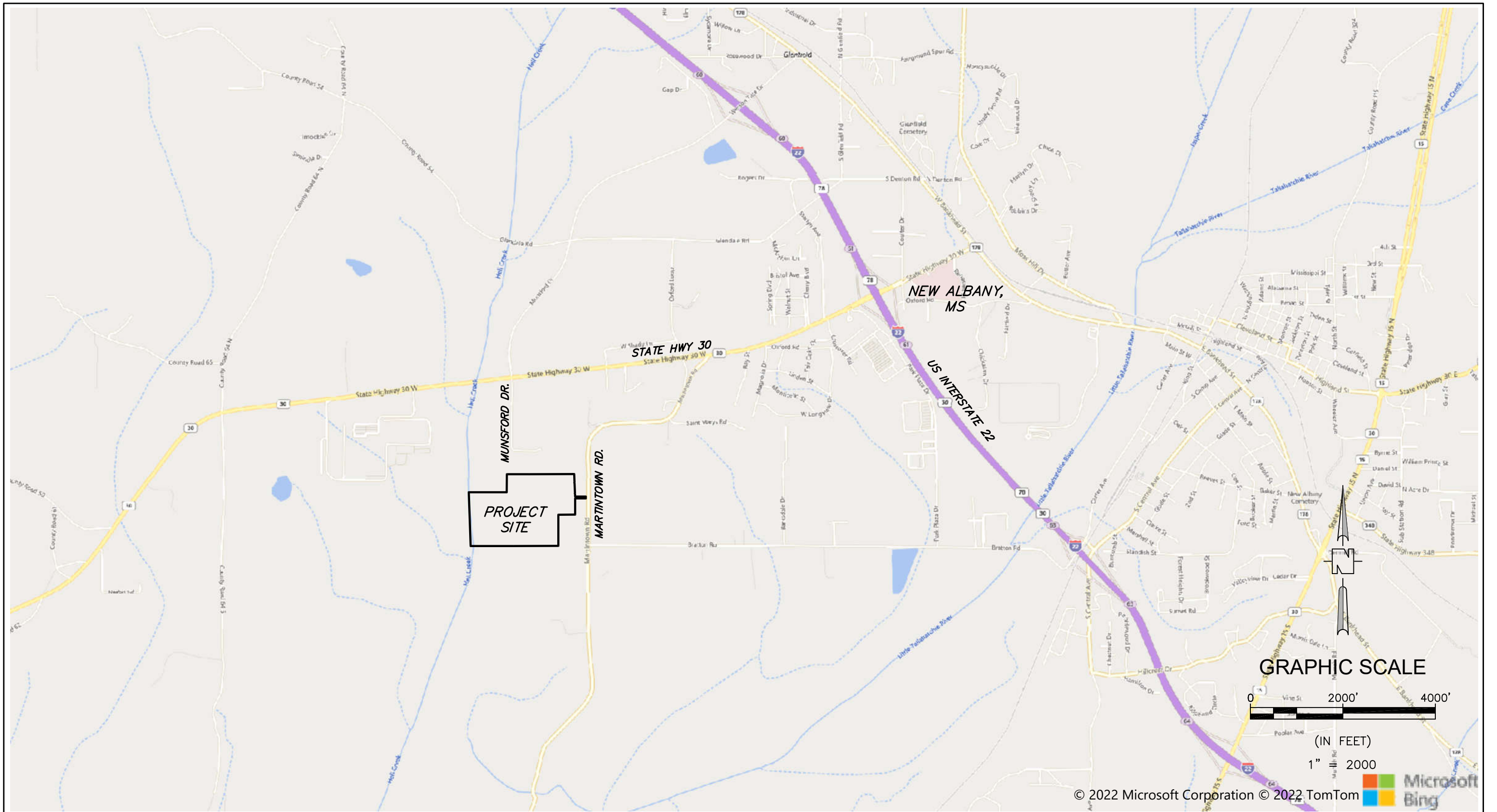
DUNN UTILITY SITE IMPROVEMENTS  
DUNN BUILDING COMPANY, LLC  
NEW ALBANY, MS



EROSION CONTROL DETAILS

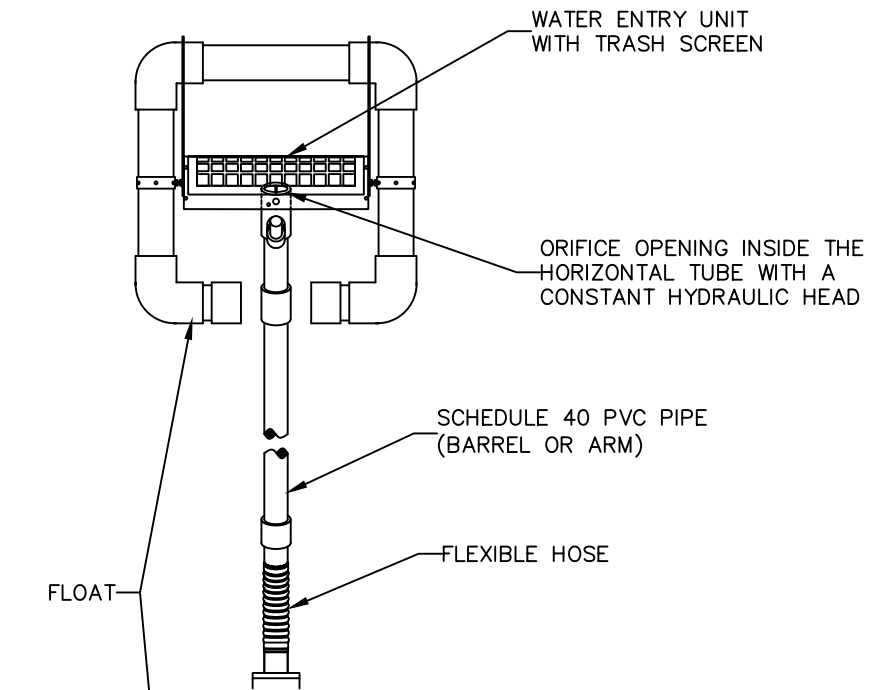
WORKING NUMBER:  
ECD-2

DRAWING NUMBER:  
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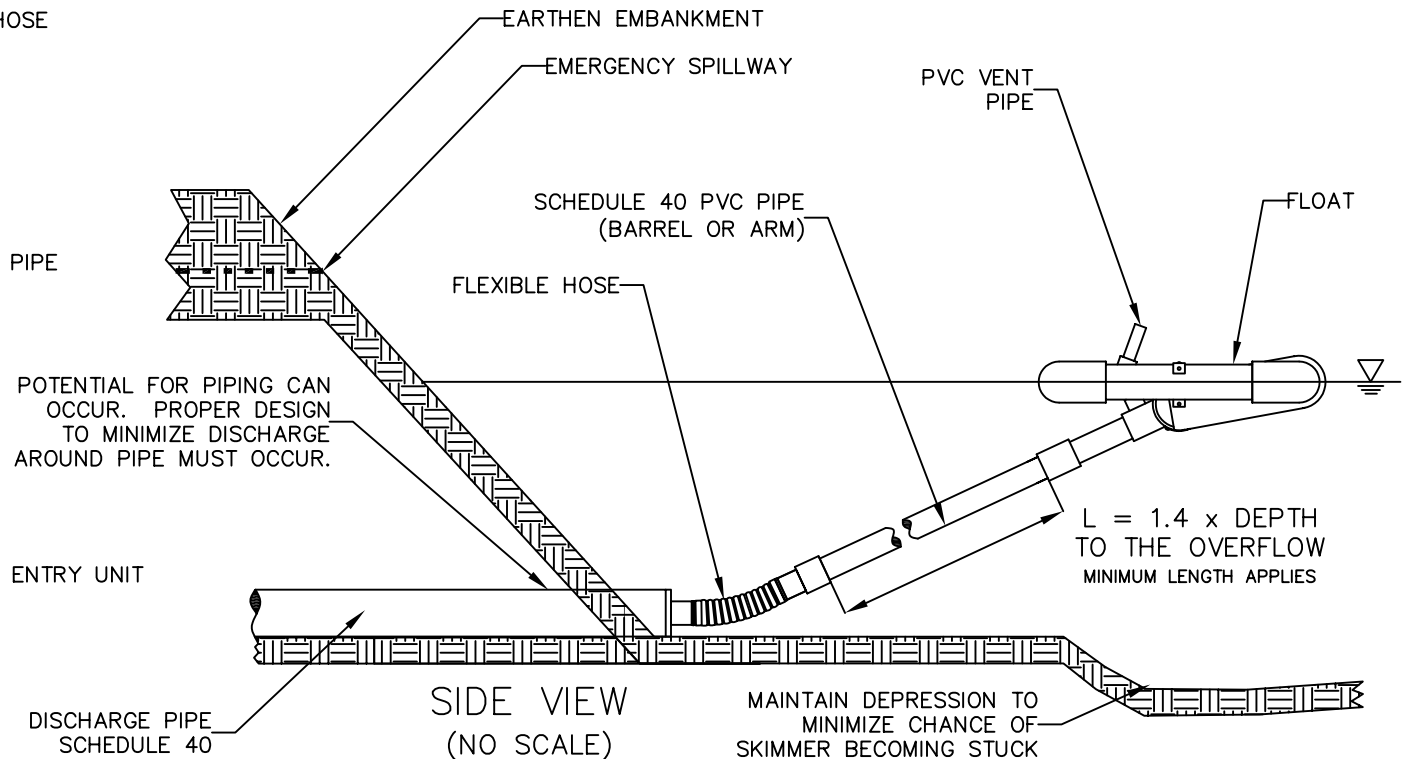
DUNN UTILITY SITE IMPROVEMETNS  
 DUNN BUILDING COMPANY, LLC  
 NEW ALBANY, MS

VICINITY  
 MAP



**GENERAL NOTES:**

1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.



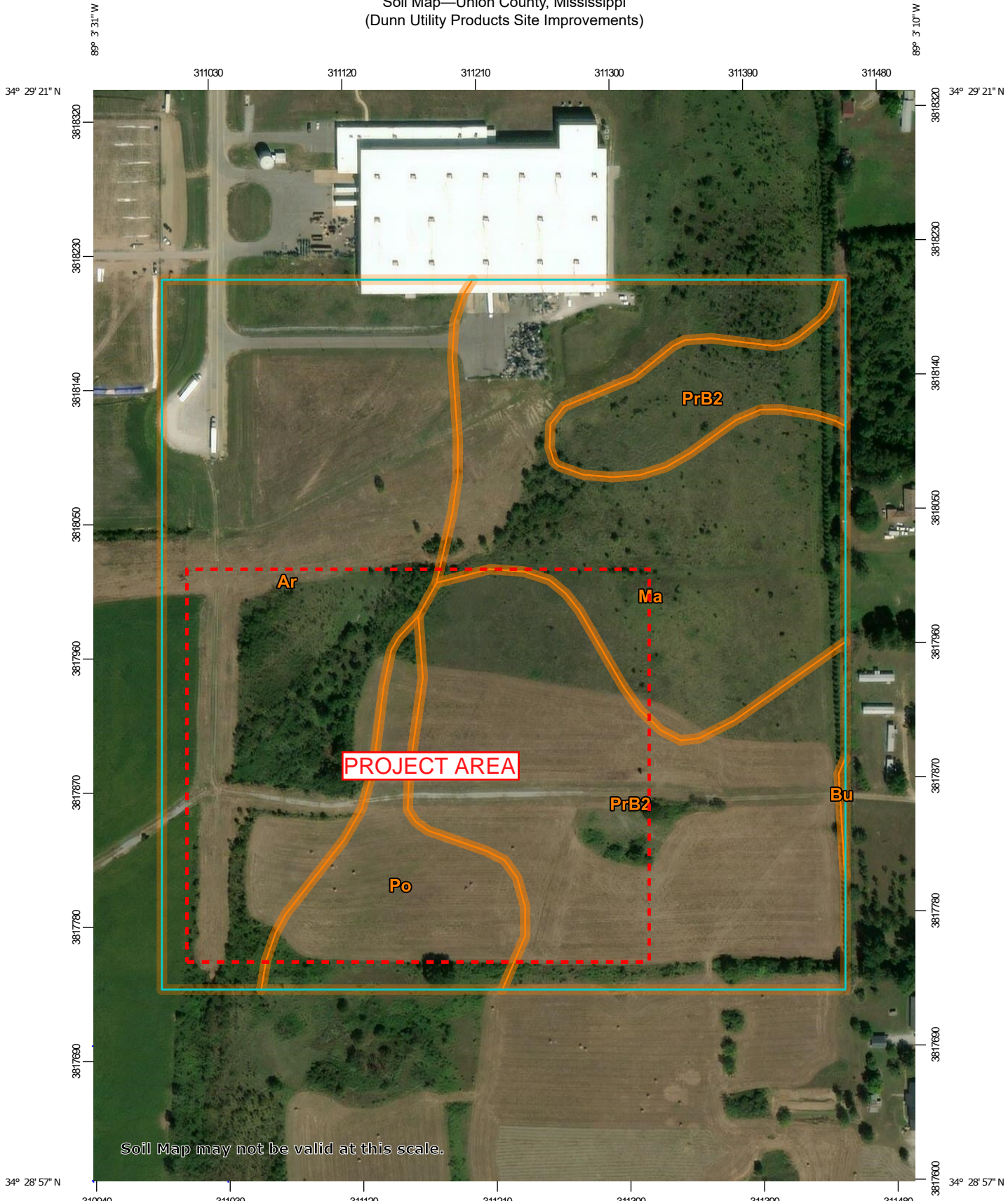
DRAWN BY T. R. EVANS 10/10

FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH EMBANKMENT

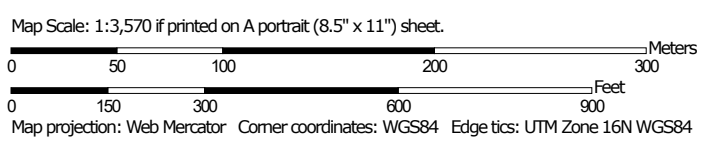
J. W. FAIRCLOTH & SON INC.  
 WWW.FAIRCLOTHSKIMMER.COM  
 TELEPHONE: (919) 732-1244  
 FAX: (919) 732-1266  
 EMAIL: WARREN@FAIRCLOTHSKIMMER.COM



Soil Map—Union County, Mississippi  
(Dunn Utility Products Site Improvements)



Soil Map may not be valid at this scale.



Soil Map—Union County, Mississippi  
(Dunn Utility Products Site Improvements)

### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)




















**Soils**







 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

**Special Point Features**






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Union County, Mississippi  
Survey Area Data: Version 16, Sep 8, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 12, 2015—Oct 22, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ar	Arkabutla silt loam, 0 to 2 percent slopes, rarely flooded	18.5	34.0%
Bu	Bude silt loam	0.0	0.1%
Ma	Mantachie silt loam, 0 to 2 percent slopes, occasionally flooded	13.6	25.0%
Po	Pooleville silt loam	4.7	8.6%
PrB2	Providence silt loam, 2 to 5 percent slopes, moderately eroded, north	17.5	32.3%
<b>Totals for Area of Interest</b>		<b>54.4</b>	<b>100.0%</b>