STORMWATER POLLUTION PREVENTION PLAN
FOR
CROSSROADS DISTRIBUTION CENTER
BUILDING J EXPANSION
CITY OF OLIVE BRANCH,
DESOTO COUNTY, MISSISSIPPI

Prepared for:
IDI LOGISTICS
6075 POPLAR AVENUE, SUITE 124
MEMPHIS, TN 38119

AUGUST, 2022

Prepared by:

GM civil
Engineering & Surveying

2559 SW Grapevine Pkwy
Grapevine, TX 76051

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1. Introduction

Crossroads Distribution Center – Building J Expansion will be the expansion of an existing commercial development warehouse with associated parking and drives. The subject property is located at 12815 State Line Road in Olive Branch, DeSoto County, Mississippi on the southwest corner of State Line Road and Forest Hill – Irene Road. For further reference, a location map based on the Olive Branch, MS, 1:24,000 USGS topographic quadrangle is presented in Appendix A.

Crossroads Distribution Center – Building J Expansion contains 57.62 acres. Development of the site will require the disturbance of approximately 9.83 acres. This Storm Water Pollution Prevention Plan (SWPPP) provides details of the erosion and sediment controls to be implemented during construction in order to prevent off-site sediment discharge and protect water quality. This SWPPP has been prepared in accordance with the Erosion Control Plan designed by GMcivil, which is provided in Appendix D. This SWPPP and the controls described in this document have been designed to comply with the terms and conditions of Mississippi's Large Construction Storm Water General NPDES Permit. The erosion and sediment controls described in this SWPPP shall be implemented by the permittee or other qualified individual designated by the permittee.

2. Site Information

The site is located within the Horn Creek-Nonconnah watershed (HUC: 08010211). The nearest receiving stream is Nonconnah Creek Lateral B4. There are no identified jurisdictional streams or wetlands within the subject property.

The soils on the site are mapped by the National Resource Conservation Service as Grenada silt loams (Gb, Gd), Grenada soil material (Gh), Calloway silt loam (Cd), and Collins and Falaya silt loam (CI). These soils have a K rating (whole soil) of 0.43 to 0.49, and therefore have a moderately high susceptibility to erosion.

Currently, drainage is conveyed from the site through three drainage basins (A, B, and C) shown on the Erosion Control Plan map provided in Appendix D. The construction storm water runoff from Basin A is treated with silt fence and filter socks over existing flumes. Basin B is treated with silt fence and inlet protection over existing storm drain grate inlets. Basin C is treated with silt fence and filter socks over existing and proposed flumes. Additional relevant drainage basin information is summarized below.

Drainage Basins	Drainage Area	Method of Discharge/Containment
A	3.61 acres	Silt Fence and Filter Socks
B	21.54 acres	Silt Fence and Inlet Protection
C	4.38 acres	Silt Fence and Filter Socks

3. Implementation Sequence

- Prior to any work on the site, a construction entrance/exit shall be installed.
- Prior to any earthwork, silt fencing, sedimentation pond, diversion swales, and any other controls deemed necessary by the contractor shall be installed.
- During preliminary grading, topsoil shall be stockpiled wherever possible, and silt fencing shall be installed around stockpiles.
- Temporary vegetation shall be installed as needed on disturbed areas.
- Sediment accumulations shall be removed from silt fences and sediment ponds when accumulations exceed the design capacity. Sediment shall be disposed of at an approved site.
- Once the proposed grading activities have been completed, areas of bare soil will be vegetatively stabilized using the appropriate seed mix. Where necessary, topsoil shall be placed prior to seeding.
- Once final stabilization is reached, all temporary erosion and sediment control devices shall be removed.

4. Erosion and Sediment Controls

A. Vegetative Controls

Temporary stabilization measures (primarily seeding and mulching) shall be utilized initially as necessary and then be replaced by permanent stabilization measures as these areas reach final grade. If work is to be temporarily discontinued for 14 or more days, stabilization via seeding with a seasonally appropriate mixture and mulch shall be initiated immediately. Finally, permanent stabilization shall commence immediately upon completion of the project. Permanent stabilization of bare soils shall be in the form of seeding with a mixture that includes perennial grasses, installing sod or via structural measures as appropriate. Prior to seeding or sodding, topsoil shall be spread on the site as necessary to facilitate vegetation establishment. General seeding recommendations are provided in Appendix B.

B. Structural Controls

- *Construction Entrance Pad*- As shown on the Erosion Control Plan, the construction entrance shall be installed at the existing drive aisle for the north truck court for Building J. The entrance shall be a minimum of 50 feet long and 24 feet wide except where otherwise indicated on the Erosion Control Plan. The entrance shall be composed of 3 to 5 inch diameter crushed rock or acceptable crushed Portland cement concrete placed on filter cloth at a minimum depth of at least 6 inches. Additional rock and/or cement shall be added as necessary to maintain proper function of the construction entrance pad. The entrance shall be properly graded or incorporate a drainage swale to prevent runoff from leaving the construction site. If the rock does not adequately remove mud from vehicle wheels, the wheels shall be hosed off before the vehicle enters a public street. The washing shall be done in an area covered with crushed stone with the drainage flowing away from both the street and the stabilized entrance. The discharge water shall be prevented from entering any storm drain, ditch, or watercourse and instead drained to a sediment trap or sediment barrier.

- *Silt Fence*- Silt fencing shall be installed along contours as shown on the Erosion Control Plan and where necessary to control erosion and contain sediment. Silt fence shall be securely fastened to steel posts, which shall be installed on a slight angle towards the anticipated runoff source and embedded a minimum of one foot. The bottom edge of the silt fence shall be entrenched and backfilled with a minimum of 6 inches of compacted fill or crushed stone. Silt fence ends shall be overlapped a minimum of 6 inches. Wire reinforced silt fencing shall be used on areas where slopes exceed a vertical height of 10 feet or where runoff velocity and flows are particularly high. When wire reinforced silt fence is used, the wire shall also be buried a minimum of 2 inches and extend a maximum of 32 inches above the original ground surface.

5. Housekeeping Practices

The following good housekeeping practices shall be followed on-site during the construction process:

- The temporary parking and storage areas shall be located as determined by the developer's construction manager. The temporary parking and storage areas shall also be used as the equipment maintenance area, equipment cleaning area, employee break area and location of any needed portable facilities, office trailers or toilet facilities.

- All construction waste and trash (paper, plastic, wood, scrap metals, rubber, etc.) shall be collected and stored in containers with lids or covers that can be placed over the container prior to rainfall. This waste shall be regularly collected and disposed of according to state and local solid waste management regulations.

- Any materials stored on site shall be in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure within a designated storage area. Original labels and safety material shall be retained. The manufactures' recommendations for proper use and disposal shall be followed. All hazardous waste (paints, acids for cleaning masonry surfaces, Cleaning solvents, concrete curing compounds and additives, etc.) shall be disposed of according to local, state and federal regulations.

- All spills shall be cleaned up immediately after discovery. The spill area shall be kept well ventilated and personnel shall wear appropriate protective clothing to prevent injury from contact with hazardous substances. Spills of toxic hazardous materials shall be reported to appropriate local, state and federal government agencies as soon as possible, regardless of the size. Contaminated materials shall be disposed of according to local, state and federal requirements.

- Sanitary facilities shall be provided. The location of these facilities shall be designated by the developers' construction manager. Sanitary waste shall be disposed of according to local and state regulations.

- All litter, construction debris and construction chemicals exposed to storm water shall be removed prior to anticipated storm events.

6. Inspections

During construction, inspections of the site shall be conducted at least once a week by a qualified person for a minimum of 4 inspections per month. When possible, inspections shall be conducted prior to an anticipated storm event. Site inspections shall be conducted after all rainfall events that produce a discharge. All outfall points, construction entrances/exits, disturbed areas, storage areas as well as all installed erosion and sediment control devices shall be inspected. Corrective measures shall be taken within 24 hours or as soon as site conditions allow. Inspections shall be documented on MDEQ's *Inspection and Certification Form for Erosion and Sediment Control* (found in Appendix C). Documentation shall include the name, title and qualifications of the inspector, the date of the inspection, deficiencies observed and corrective measures to be taken. All records, reports and forms for this site shall be retained a minimum of 3 years from the date of the document's origin.

7. Maintenance

All erosion and sediment control devices shall be maintained in a fully functional condition until final stabilization is reached. Non-functioning controls shall be repaired, replaced or supplemented with functional controls within 24 hours of discovery or as soon as site conditions allow. All controls shall be cleaned and repaired in accordance with the following:

- The construction exit shall be maintained in a condition which shall prevent tracking or flow of mud onto the public right-of-way. This may require periodic top dressing as conditions demand.

- Silt fences shall be inspected for depth of sediment, tears, fabric attachment to fence post, and the firmness of fence post embedment. Build-up of sediment shall be removed from any silt fence when it reaches one-half of the height of the fence. Silt fences shall be replaced as necessary to maintain proper function. Any sediment that escapes the installed silt fences shall be promptly removed.

- Rip-rap shall be regularly inspected to see if any erosion around or below the rip-rap has taken place or if the stones have dislodged. Additional rip-rap shall be added or repositioned as necessary to maintain proper function.

- Roadways on or adjacent to the site shall be regularly inspected. Sediment accumulations shall be removed as necessary.

- Temporary and permanent seeding and mulching shall be inspected for bare spots, washouts and healthy growth. Areas shall be reseeded and fertilized as necessary.

- Sediment shall be removed from the sedimentation pond when capacity is reduced to fifty percent.

- All sediment removed from the pond or other devices shall be spread on-site and stabilized or disposed of at an approved site.

8. Post-Construction Storm Water Management

Once the construction activities have been completed, any remaining areas of bare soil or areas dominated by temporary (annual) vegetation shall be permanently stabilized with perennial vegetation through seeding or sod. Additional planting shall be conducted as necessary to achieve permanent stabilization. The planted vegetation should stabilize sediment on the site after site work has concluded. The existing site contains post construction storm water detention ponds which reduces the volume and velocity of storm water discharging off site.

9. Termination of Coverage

Coverage under the General Construction Permit cannot be terminated until all construction is completed, all disturbed soils are permanently stabilized, and all temporary erosion and sediment control measures are removed; or until replacement coverage has been issued to a new operator for the entire site. Once these conditions are met, the Office of Pollution Control must be notified within 30 days by submission of the *Request for Termination of Coverage* form (found in Appendix C).

10. Receiving Stream 303(d)/TMDL

The receiving stream for the project is Nonconnah Creek Lateral B4 located south of the subject property. The following TMDL have been identified for the projects receiving watershed:

Nonconnah Creek (MS216NE) – Nutrient Pollution TMDL, Organic Enrichment/Low Dissolved Oxygen TMDL, and Sediment TMDL

The only item of concern related to contribution of TMDL to the downstream receiving watershed for the Crossroads Distribution Center – Building J Expansion project is Sediment TMDL for the construction stormwater permit. However, due to the BMPs that will be implemented for the project and separation from the receiving stream there is no sediment contribution to the downstream watershed.

TMDL for Nutrient Pollution, Total Nitrogen and Organic Enrichment/Low Dissolved Oxygen are not applicable to the construction storm water discharge released from the Crossroads Distribution Center – Building J Expansion.

APPENDIX A

FIGURES

Aerial Photo of Site

USGS Site Outfall Map

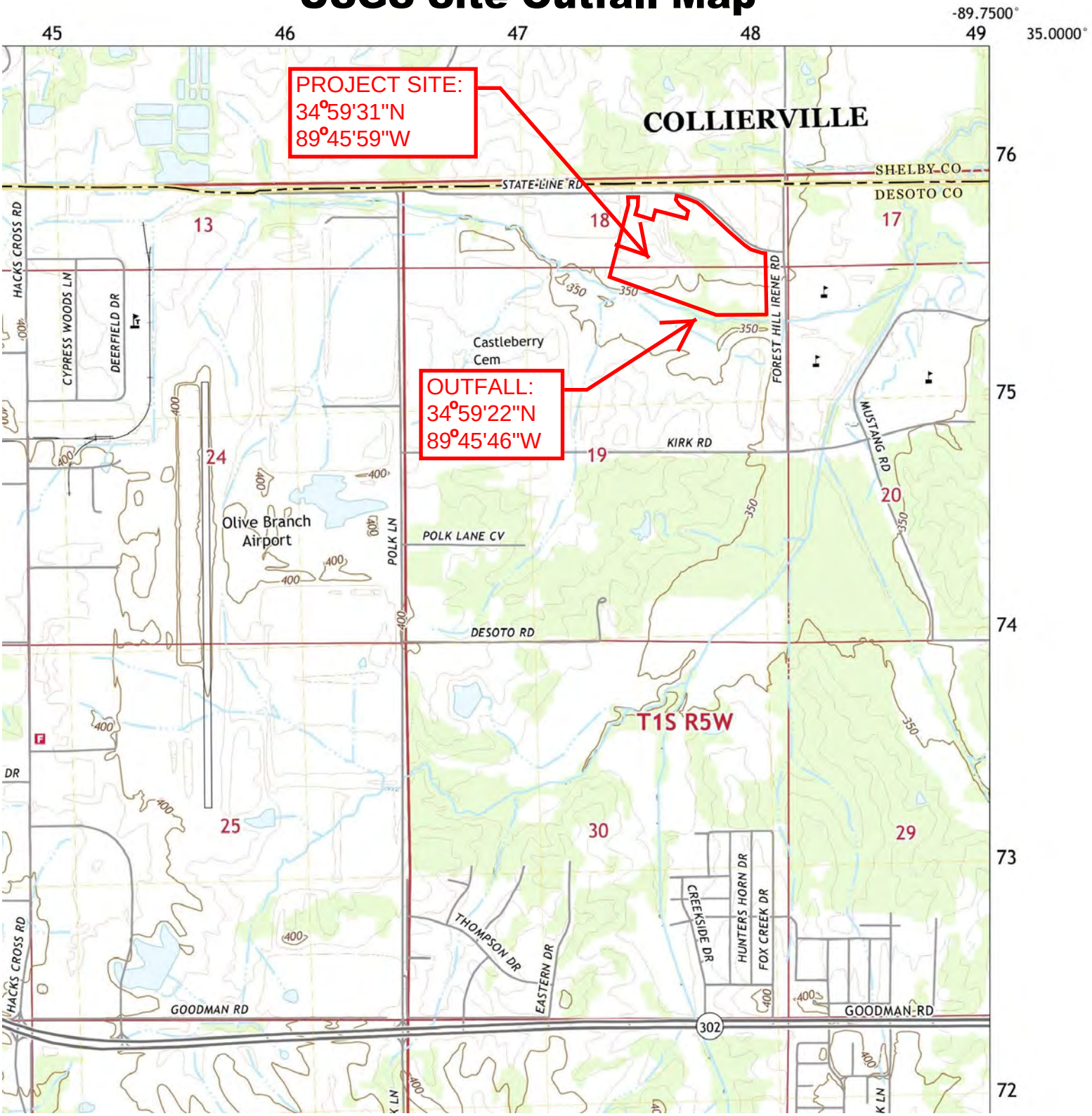

PROJECT LOCATION
State Line Rd
MISSISSIPPI
State Line Rd
State Line Rd
Cross Rd
Hacks Cross Rd
Forest Hill Irene Rd
Mustang Rd
N
3000 ft
Google Earth

USGS
science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OLIVE BRANCH QUADRANGLE
MISSISSIPPI - TENNESSEE
7.5-MINUTE SERIES

USGS Site Outfall Map



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 16S
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery	NAIP, June 2016 - October 2016	
Roads	U.S. Census Bureau, 2016	2017
Names	GNIS, 1980 - 2020	
Hydrography	National Hydrography Dataset, 2004 - 2018	
Contours	National Elevation Dataset, 1012 - 2019	
Boundaries	multiple sources; see metadata file 2019	2019
Public Land Survey System	BLM	2017
Wetlands	FWS, National Wetlands Inventory	1980

UTM GRID AND 2018 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

ADJOINING QUADRANGLES
1 Southeast Memphis
2 Germantown
3 Collierville
4 Pleasant Hill
5 Byhalia NW
6 Hernando
7 Lewisburg
8 Byhalia

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

OLIVE BRANCH, MS, TN
2021

APPENDIX B

Seeding Recommendations

SEEDING CHART FOR THE STATE OF MISSISSIPPI

***For a more comprehensive vegetation schedule, see "Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas (Three Volumes)"**

SPECIES	SEEDING RATE/ ACRE	PLANTING TIME	DESIRED pH RANGE	FERTILIZATION RATE/ACRE	METHOD OF ESTABLISH-MENT	ZONE OF ADAPT-ABILITY	NATIVE/ INTRODUCED
Common Bermuda	15 lbs. alone 10 lbs. mix-ture	3/1 - 7/15 9/1 - 11/30	6.0 - 7.0	600 lbs. 13-13-13	seed or sod	All	Introduced *Potential for Invasiveness
Bahia	40 lbs. alone 30 lbs. mixture	3/1 - 7/15 9/1 - 11/30	6.0 - 7.0	600 lbs. 13-13-13	seed	Central & South	Introduced
Fescue	40 lbs. alone 30 lbs. mix-ture	9/1- 11/30	6.0 - 7.0	600 lbs. 13-13-13	seed	North & Central	Native
Saint Augustine	--	3/1 - 7/15	6.0 - 7.0	600 lbs. 13-13-13	sod only	Central & South	Native
Centipede	4 lbs. alone 2.5 lbs. mix	3/1 - 7/15	6.0 - 7.0	600 lbs. 13-13-13	seed or sod	All	Introduced
Carpet Grass	15 lbs. alone 10 lbs. mix-ture	3/1 - 7/15	6.0 - 7.0	600 lbs. 13-13-13	seed or sod	All	Native
Zoysia Grass	--	3/1 - 7/15	6.0 - 7.0	600 lbs. 13-13-13	sod only	All	Introduced
Creeping Red Fescue	30 lbs. alone 22.5 lbs. mix	9/1 - 11/30	6.0 - 7.0	600 lbs. 13-13-13	seed	All	Native
Weeping Lovegrass	10 lbs. alone 5 lbs. mix	3/1 - 7/15	6.0 - 7.0	600 lbs. 13-13-13	seed	All	Introduced
Sericea Lespedeza	40 lbs.	3/1 - 7/15 9/1 - 11/30	6.0 - 7.0	400 lbs. 6-24-24	seed	All	Introduced
***Wheat**	90 lbs. alone	9/1 - 11/30	6.0 - 7.0	600 lbs. 13-13-13	seed	All	Native
***Ryegrass**	30 lbs.	9/1 - 11/30	6.0 - 7.0	600 lbs. 13-13-13	seed	All	Native
***White Clover**	5 lbs.	9/1 - 11/30	6.0 - 7.0	400 lbs. 6-24-24	seed	All	Introduced
***Crimson Clover**	15 lbs.	9/1 - 11/30	6.0 - 7.0	400 lbs. 6-24-24	seed	All	Introduced
***Hairy Vetch**	30 lbs.	9/1 - 11/30	6.0 - 7.0	400 lbs. 6-24-24	seed	All	Introduced
***Browntop Millet**	40 lbs. alone 15 lbs. mix	4/1 - 8/30	6.0 - 7.0	600 lbs. 13-13-13	seed	All	Introduced

*Note on Annuals. For permanent seeding, annuals can only be used in a mixture with perennials.

North-north of Hwy. 82
Central- south of Hwy. 82 & north of Hwy. 84
South- south of Hwy. 84

APPENDIX C

FORMS

Site Inspection and Certification Form
Inspection Suspension Form
Request for Termination (RFT) of Coverage

Keep a Copy Available at the Permitted Facility or Locally Available
Submit the Inspection Reports Only if Requested by the Mississippi Department of Environmental Quality (MDEQ)

LARGE CONSTRUCTION GENERAL PERMIT
SITE INSPECTION AND CERTIFICATION FORM
COVERAGE NUMBER (MSR10 __ __ __ __)

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

INSTRUCTIONS

Results of construction storm water inspections required by ACT6 of this permit shall be recorded on this report form and kept with the Storm Water Pollution Prevention Plan (SWPPP) in accordance with the inspection documentation provisions of ACT9 of the this permit. Inspections shall be performed at least weekly for a minimum of four inspections per month. The coverage number must be listed at the top of all Inspection and Certification Forms.

COVERAGE RECIPIENT INFORMATION

OWNER/PRIME CONTRATOR NAME: _____

PROJECT NAME: _____

PROJECT STREET ADDRESS: _____

PROJECT CITY: _____ **PROJECT COUNTY:** _____

OWNER/PRIME CONTRACTOR MAILING ADDRESS: _____

MAILING CITY: _____ **STATE:** _____ **ZIP:** _____

CONTACT PERSON: _____ **CONTACT PHONE NUMBER:** (_____)_____

EMAIL ADDRESS: _____

INSPECTION DOCUMENTATION

DATE (mo/day/yr)	TIME (hr:min AM/PM)	ANY DEFICIENCIES? (CHECK IF YES)	INSPECTOR(S)
		☐	
		☐	
		☐	
		☐	
		☐	
		☐	

Deficiencies Noted During any Inspection (give date(s); attach additional sheets if necessary): _____

_____

_____

Corrective Action Taken or Planned (give date(s); attach additional sheets if necessary): _____

_____

_____

Based upon this inspection, which I or personnel under my direct supervision conducted, I certify that all erosion and sediment controls have been implemented and maintained, except for those deficiencies noted above, in accordance with the Storm Water Pollution Prevention Plan (SWPPP) and sound engineering practices as required by the above referenced permit. I further certify that the LCNOI and SWPPP information is up to date.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons 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 fines and imprisonment for knowing violations.

_____ _____
Authorized Signature Date

_____ _____
Printed Name Title

INSPECTION SUSPENSION FORM

UNDER LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT MSR10

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

INSTRUCTIONS

Coverage recipients under Mississippi's Large Construction Storm Water General Permit may temporarily suspend required weekly inspections of erosion and sediment controls and monthly record keeping by submission of this form. Inspections may be suspended only when land disturbing activities have ceased, no further land disturbing activities are planned for a period of at least six (6) months, the site is stable with no active erosion, and vegetative cover has been established (see ACT9, S-1). The coverage recipient is responsible for all permit conditions during the suspension period and nothing in this condition shall limit the rights of MDEQ to take enforcement or other actions against the coverage recipient. Once land disturbing activities resume MDEQ must be notified and all inspections and record keeping required by the permit must also resume. Color photographs, representative of the construction site, must be submitted with this inspection form.

COVERAGE RECIPIENT INFORMATION

COVERAGE RECIPIENT CONTACT PERSON: _____

COMPANY NAME: _____

STREET OR P.O. BOX: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE # (INCLUDE AREA CODE): _____ E-MAIL: _____

PROJECT INFORMATION

CONSTRUCTION STORM WATER GENERAL PERMIT COVERAGE NUMBER: MSR10 __ __ __ __

PROJECT NAME: _____

CITY: _____ COUNTY: _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the 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**. I further certify that: land disturbing activities have ceased, no further land disturbing activities are planned for a period of at least six (6) months, the site is stable with no active erosion, and vegetative cover has been established**.

_____ _____

Signature (must be signed by coverage recipient) Date Signed

_____ _____

Printed Name Title

Please submit this form to:

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Revised: 12/10/2016

Request for Termination (RFT) of Coverage

LARGE CONSTRUCTION GENERAL PERMIT

Coverage No. MSR10 __ __ __ __ County _____

(Fill in your Certificate of Coverage Number and County)

This form must be submitted within thirty (30) days of achieving final stabilization (see ACT10, S-1 of general permit). Failure to submit this form is a violation of permit conditions.
Color photographs, representative of the stabilized construction site, must be submitted with this form.
The signatory of this form must be the owner or operator (prime contractor) who is the current coverage recipient (rather than the project manager or environmental consultant).

(Please Print or Type)

Project Name_____

Physical Site Street Address (if not available, indicate nearest named road): _____

City: _____ **County:** _____ **Zip:** _____

Latitude: **degrees** **minutes** **seconds** **Longitude:** **degrees** **minutes** **seconds**

Lat & Long Data source (GPS or Map Interpolation):

Coverage Recipient Company Name: _____

Street Address / P.O. Box: _____

City: _____ **State:** _____ **Zip:** _____

Coverage Recipient Contact Name and Position: _____ **Tel. #:** (_____) _____

EMAIL: _____

Has another owner(s) or operator(s) assumed control over all areas of the site that have not reached final stabilization?

RESIDENTIAL SUBDIVISIONS:

- ☐ **YES. A copy of the Registration Form for Residential Lot Coverage for each lot or out parcel that has been sold and a site map, indicating which lots have been sold, are attached.**
- ☐ **NO. Coverage may not be terminated until all areas have reached final stabilization.**

COMMERCIAL DEVELOPMENT:

- ☐ **YES. A copy of the site map, indicating which out-parcels have been sold, is attached.**
- ☐ **NO. Coverage may not be terminated until all areas have reached final stabilization.**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the 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 fines and imprisonment for knowing violations. I understand that by submitting this Request for Termination and receiving written confirmation, I will no longer be authorized to discharge storm water associated with construction activity under this general permit. Discharging pollutants associated with construction activity to waters of the State without proper permit coverage is a violation of state law. I also understand that the submittal of this Request for Termination does not release an owner or operator from liability for any violations of this permit or the Clean Water Act.

_____	_____	_____	_____
Authorized Name (Print)	Telephone	Signature	Date Signed

[1]This application shall be signed according to the General Permit, ACT11, T-7 as follows:

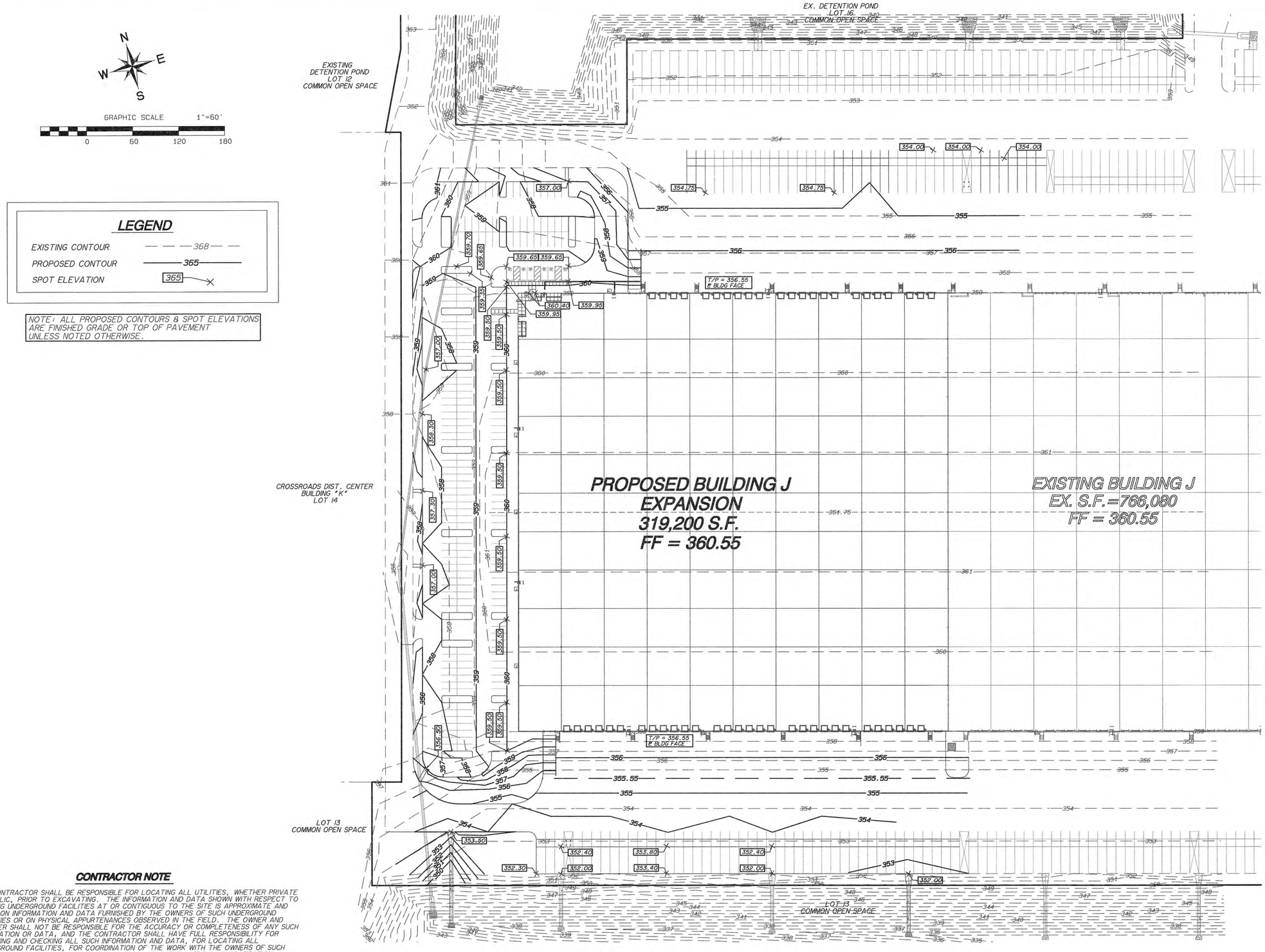
- For a corporation, by a responsible corporate officer.
- For a partnership, by a general partner.
- For a sole proprietorship, by the proprietor.
- For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official.

After signing please mail to: Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Electronically: https://www.mdeq.ms.gov/construction-stormwater/

APPENDIX D

Crossroads Distribution Center
Building J Expansion
Grading and Erosion Control Plans



CONTRACTOR NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PRIVATE OR PUBLIC, PRIOR TO EXCAVATING. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION AND DATA FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA, AND THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL OF WHICH WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

BENCHMARK
North end of 6-72 inlet located on the east side of Polk Lane at the southeast cornerof Polk Lane and State Line Road. (DATUM NAVD 88) Elevation = 358.73

E:\10241\plans\Building J\CDC-BLDG J Expansion AUG 2022.pro 25 Aug 2022 @ 4:15:08PM

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

IDI Logistics
6075 POPLAR AVENUE SUITE 124
MEMPHIS, TN 38119
(901)-660-7703

BUILDING J EXPANSION
CROSSROADS DISTRIBUTION CENTER
OLIVE BRANCH, MISSISSIPPI

GMcivil
Engineering & Surveying
2559 SW Grapevine Pkwy.
Grapevine, TX 76051
817.329.4373
MS REGISTRATION #E-0741

JASON S. WEAVER
REGISTERED PROFESSIONAL ENGINEER
26143
STATE OF MISSISSIPPI

8/24/22

JOB NO.	10241
DATE	AUGUST, 2022
DSGN/DRFT	JSW/RAE
REVIEW	RAE
SHEET	C3.0

GRADING PLAN

LEGEND

SILT FENCE	INLET PROTECTION
CONSTRUCTION ENTRANCE	FILTER SOCK
LAYDOWN STORAGE AREA	A 7.7 Ac. AREA OF DISTURBANCE
CONCRETE WASHOUT STATION	DRAINAGE AREA DIVIDE
SOIL CEMENT STABILIZED PAD	FLOW ARROW (RUNOFF DIRECTION)
358 PROPOSED CONTOUR	360 EXISTING CONTOUR

N E S W

GRAPHIC SCALE 1"=60'
0 60 120 180

TOTAL AREA DISTURBED = 9.83 ACRES

STABILIZED CONSTRUCTION ENTRANCE NOTES

1. Stone shall be 3 to 5 inch diameter crushed rock or acceptable crushed Portland Cement Concrete.
2. When necessary, vehicles shall be cleaned to remove sediment prior to entrance onto a public roadway. When washing is required, it shall be done on a area stabilized with crushed stone with drainage flowing away from both the street and the stabilized entrance. All sediment shall be prevented from entering any storm drain, ditch or watercourse using approved methods.
3. The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto paved surfaces. This may require periodic top dressing with additional stone as conditions demand. All sediment spilled, dropped, washed or tracked onto paved surfaces, must be removed immediately.
4. The entrance must be properly graded or incorporate a drainage swale to prevent runoff from leaving the construction site.

EROSION CONTROL CONSTRUCTION SCHEDULE

1. Silt fences, filter socks, inlet protection and construction entrances shall be placed on site prior to any grading.
2. Constractor shall perform routine maintenance to remove siltation from filter socks, inlet protection, and accumulation of silt behind silt fences.
3. Construction entrances shall remain in place until project completion.

EROSION CONTROL NOTES

1. Disturbed areas shall be stabilized as directed by OWNER upon construction completion.
2. The grading contractor shall use whatever means are required to prevent silt and construction debris from flowing onto adjacent properties. This can be accomplished by silt fences and, if needed, small sediment ponds. The contractor shall comply with all local erosion and siltation ordinances. The Contractor shall remove all temporary erosion control structures upon completion of the permanent drainage facilities and the establishment of a stand of grass sufficient to prevent erosion. The Contractor shall be responsible for compliace with all MDEQ permit requirements for the discharge of storm water from construction activities.
3. The installation of silt fences should be used to prevent sediment from discharging off-site and entering storm drain systems and the adjacent stream. Care shall be taken to prevent tracking sediment onto existing Stateline Road and throughout the existing site.
4. The Contractor will be responsible for any siltation of the systems during construction.

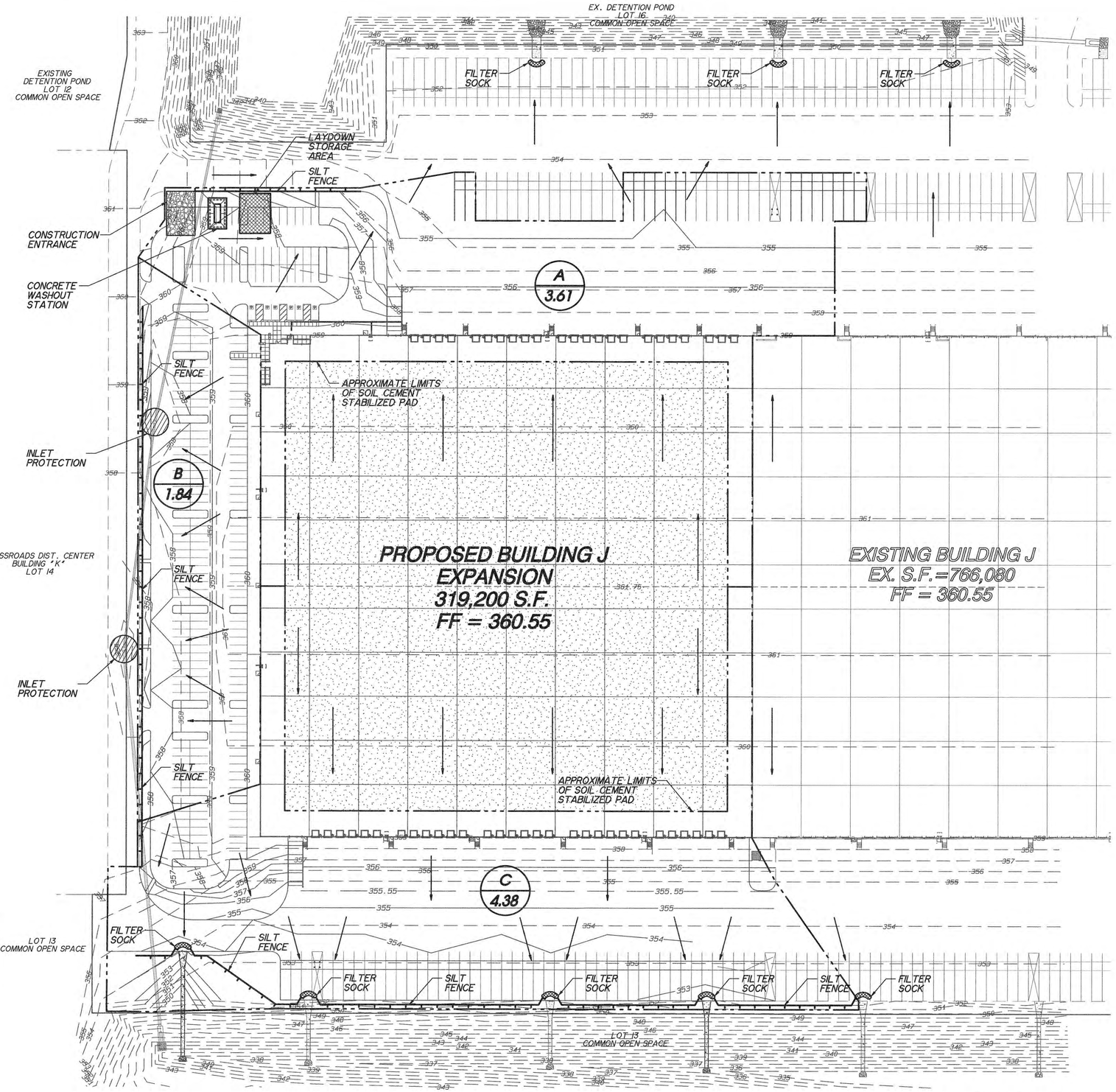
CONSTRUCTION NOTES - SILT FENCE

1. Steel posts which support the silt fence shall be installed on a slight angle toward the anticipated runoff source. The post must be embedded a minimum of one foot.
2. The toe of the silt fence shall be trenched in with a spade or mechanical trencher, so that the downslope face of the trench is flat and perpendicular to the line of flow. Where fence can not be trenched in (e.g. pavement), weight fabric flap with washed gravel on the uphill side to prevent flow under fence.
3. The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.
4. Silt fence shall be securely fastened to each steel support post or to woven wire, which is in turn attached to the steel support post. There shall be a 6 inch double overlap, securely fastened where ends of fabric meet.
5. Inspection shall be made weekly or after each rainfall. Repair or replacement shall be made promptly as needed.
6. Silt fence shall be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.
7. Accumulated silt shall be removed when it reaches a depth of 6 inches. The silt shall be disposed of at an approved site and in such a manner as to not contribute to additional erosion.

NOTE:
THE EROSION CONTROL LAYOUT AS SHOWN IS FOR SCHEMATIC PURPOSES ONLY. THE DEVELOPER HAS CONTRACTED WITH AN EROSION CONTROL SPECIALIST FOR THE DESIGN AND IMPLEMENTATION OF THE FINAL EROSION CONTROL PLAN. GMcivil SHALL BE HELD HARMLESS FOR THE FINAL DESIGN, LOCATION AND INSTALLATION OF ALL EROSION CONTROL DEVICES ASSOCIATED WITH THIS PROJECT AND THE FINAL STORM WATER POLLUTION PREVENTION PLAN.

CONTRACTOR NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PRIVATE OR PUBLIC, PRIOR TO EXCAVATING. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION AND DATA FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA, AND THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK, THE COST OF ALL OF WHICH WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.



BENCHMARK
North end of 6-72 inlet located on the east side of Polk Lane at the southeast cornerof Polk Lane and State Line Road. (DATUM NAVD 88)
Elevation = 358.73

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6075 POPLAR AVENUE, SUITE 124
MEMPHIS, TN 38119
(901)-680-7703

BUILDING J EXPANSION
CROSSROADS DISTRIBUTION CENTER
OLIVE BRANCH, MISSISSIPPI

GMcivil
Engineering & Surveying
2609 SW Grapevine Pkwy
Grapevine, TX 76051
817-329-4373
MS REGISTRATION #E-0741

JASON S. WEAVER
REGISTERED PROFESSIONAL ENGINEER
26143
STATE OF MISSISSIPPI

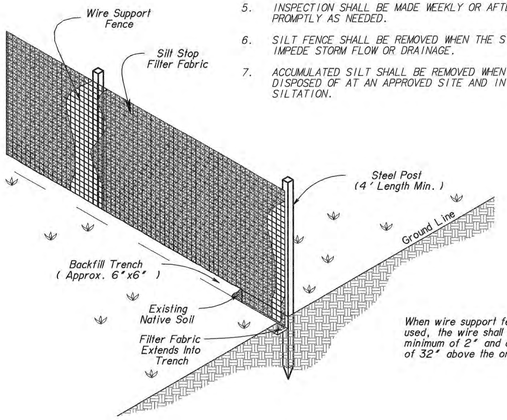
8/24/22

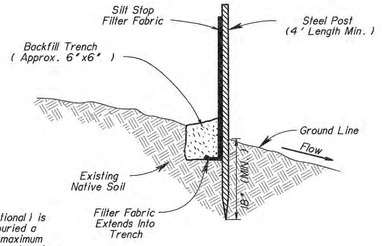
JOB NO. :	10241
DATE :	AUGUST, 2022
DSGN/DRFT :	JSW/RAE
REVIEW :	RAE
SHEET	C6.0

EROSION CONTROL PLAN

CONSTRUCTION NOTES - SILT FENCE

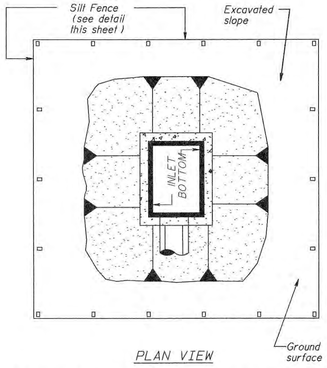
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. THE POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON THE UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHALL BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL SUPPORT POST. THERE SHALL BE A 6 INCH DOUBLE OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHED A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.





When wire support fence (optional) is used, the wire shall also be buried a minimum of 2" and extend a maximum of 32" above the origianl ground surface.

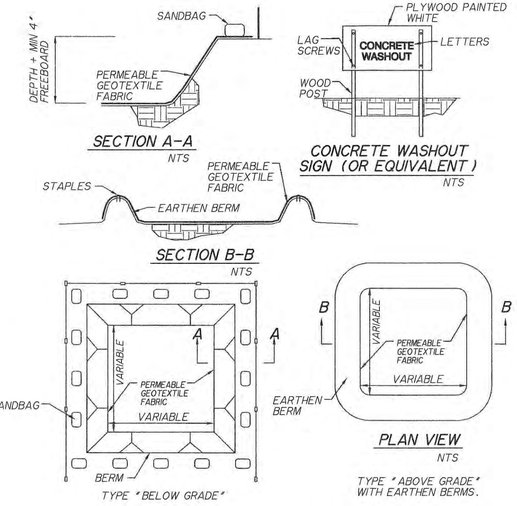
SILT FENCE
N.T.S.



PLAN VIEW

STAGE I/GRATE INLET PROTECTION

Not To Scale



CONCRETE WASHOUT DETAIL

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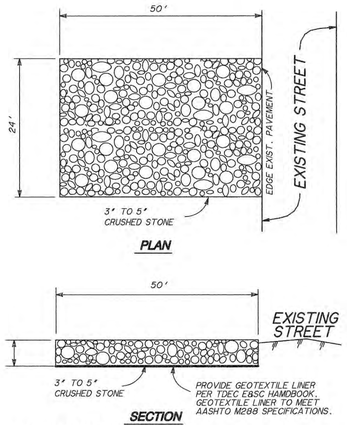
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. SIGNAGE IDENTIFYING THE CONCRETE WASHOUT AREA SHALL BE INSTALLED WITHIN 5 FT. OF THE WASHOUT FACILITY.



GENERAL NOTES:

1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.
2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.
3. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED IMMEDIATELY.
7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CRUSHED STONE EXIT PAD DETAILS

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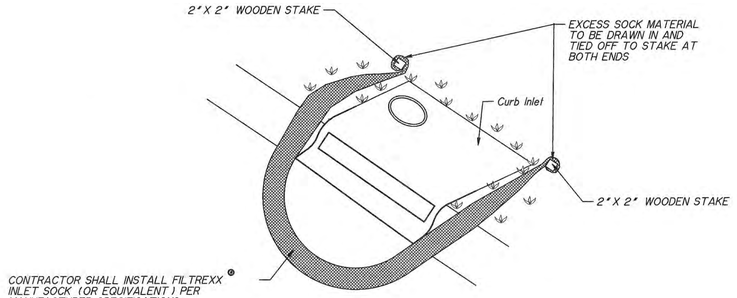

INLET EROSION FILTER FOR 6-72 INLETS

NTS

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EROSION CONTROL DETAILS

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