

VICINITY MAP
N.T.S.

BEST MGMT PRACTICE NOTES

1. LAND CLEARING SHALL TAKE PLACE ONLY IN AREAS WHERE ACTIVE CONSTRUCTION WILL BEGIN WITHIN A REASONABLE AMOUNT OF TIME. LAND CLEARING DURING THE RAINY SEASON SHALL BE AVOIDED IN SENSITIVE AREAS SUCH AS STEEP SLOPES AND BUFFERS, IF POSSIBLE.
2. DENuded AREAS, SOIL STOCKPILES, DIKES, DAMS, CHANNELS, ETC., ARE TO BE SEEDED AND MULCHED. AREAS AND TIME OF EXPOSURE OF UNPROTECTED SOILS SHALL BE KEPT TO A MAXIMUM OF 14 DAYS. SUCH AREAS ARE TO IMMEDIATELY RECEIVE SEED AND MULCH STABILIZATION FOLLOWING THIS TIME PERIOD. ON STEEP SLOPES AND CHANNELS, MATTING SHALL BE FASTENED TO THE GROUND WITH WIRE STAPLES OR WOOD PEGS. WHERE SURFACE WATER CANNOT BE DIVERTED FROM FLOWING OVER THE FACE OF SLOPES, INSTALL A STRIP OF EROSION CONTROL MATTING AND FASTEN TIGHT ALONG THE CROWN OR TOP OF THE SLOPE FOR EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOIL.
3. STEEP AND UNSTABLE SLOPES SHALL NOT BE DISTURBED IF THEY ARE OUTSIDE OF THE APPROVED GRADING PLAN AREA. RUNOFF SHALL BE CONVEYED FROM THE TOP OF THE SLOPE IN A SAFE MANNER ENSURING THAT THE SLOPE IS STABILIZED AS SOON AS POSSIBLE. ALL RUNOFF EXITING THE CONSTRUCTION SITE SHALL BE FREE OF EXCESSIVE SEDIMENT, AND OTHER POLLUTANTS.
4. STREET AND/OR CURB INLET PROTECTION DEVICES SHALL BE PLACED AROUND ALL INLETS UPON THE CONSTRUCTION OF THE STORM WATER SEWER SYSTEM.
5. ALL MATTED AREAS TO RECEIVE PERMANENT SEEDING.
6. PLEASE CALL THE CITY ENGINEERING DEPARTMENT FOR INSPECTION OF EROSION CONTROL MEASURES BEFORE GRADING COMMENCES.

SUPPLEMENTAL NOTES

1. THE EROSION PREVENTION & SEDIMENT CONTROL MEASURES INCLUDED ON THIS SHEET REPRESENT PHASE 1 ONLY AND ARE REQUIRED TO BE INSTALLED PRIOR TO THE START OF EARTH DISTURBANCE IN THE AFFECTED AREA.
2. ADJUSTMENTS TO THE EPSC MEASURES WILL BE REQUIRED DURING NORMAL PROGRESSION OF THE PROJECT. REVIEW ALL PHASES OF THE EPSC PLANS INCLUDED IN THESE PLANS FOR ADDITIONAL INFORMATION. COST ASSOCIATED WITH THESE ADJUSTMENTS ARE TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION.
3. UNDERCUT/REPLACEMENT OF SOFT SOILS SHALL BE PERFORMED AT THE DIRECTION OF THE OWNER AND FOLLOWING THE REQUIREMENTS ESTABLISHED BY THE GEOTECHNICAL ENGINEER. THE REPLACEMENT OF MATERIAL MAY INCLUDE EXISTING SOILS MEETING THE GEOTECHNICAL REQUIREMENTS.
4. CONTRACTOR IS TO MARK THE LIMIT OF DISTURBANCE PRIOR TO START OF CONSTRUCTION AND OBSERVE THESE LIMITS FOR THE DURATION OF THE PROJECT.
5. MAINTAIN EROSION CONTROL MEASURES AS INDICATED BETWEEN PHASES AND REPLACE BMP MATERIALS BEFORE FAILURE RESULTS DUE TO DEGRADATION.

Erosion Inlet Sediment Calculations

Project Name: Dunkin Donuts - Spring Hill, TN
Project Number: 2016.095

Inlet #:	CB 2		
Area (ac):	0.188		
Required Sediment Storage	21.77	cy	571.6 cf
Assume Excavation Depth	3	ft	
Assume Slope of Sides	2:1		
Required Surface Area	191	sf	
Assume Shape	Rectangular		
Dimension	l = 19.5 ft	w = 9.8 ft	

Inlet #:	CB 4		
Area (ac):	0.080		
Required Sediment Storage	10.72	cy	289.4 cf
Assume Excavation Depth	3	ft	
Assume Slope of Sides	2:1		
Required Surface Area	56	sf	
Assume Shape	Rectangular		
Dimension	l = 13.9 ft	w = 6.9 ft	

Inlet #:	CB 6		
Area (ac):	0.242		
Required Sediment Storage	32.43	cy	875.6 cf
Assume Excavation Depth	2	ft	
Assume Slope of Sides	2:1		
Required Surface Area	292	sf	
Assume Shape	Rectangular		
Dimension	l = 24.2 ft	w = 12.1 ft	

Inlet #:	CB 7		
Area (ac):	0.026		
Required Sediment Storage	3.48	cy	94.1 cf
Assume Excavation Depth	2	ft	
Assume Slope of Sides	2:1		
Required Surface Area	47	sf	
Assume Shape	Rectangular		
Dimension	l = 9.7 ft	w = 4.8 ft	

Erosion Outlet Protection Calculations

Project Name: Dunkin Donuts - Spring Hill, TN
Project Number: 2016.095

Outlet #:	HW 1	15	HDPE
Pipe Diameter (D _o):	15	in	
Flow Rate:	3.28	cfs	
Velocity:	6.19	fps	
Tailwater:	Tw < 0.6D _o		
Apron Length (L _a):	9	ft	
Culvert Width of Apron:	3(W _o) =	3.8	ft
End Width of Apron (W _e):	W _e (L _a) =	9.3	ft
Median Riprap Size (D ₅₀):	3.00	in	
Max Riprap Size:	1.5'D ₅₀ =	4.50	in
Depth of Apron (D _a):	1.5'D _{max} =	6.75	in

Erosion Sediment Storage Calculations

Project Name: Dunkin Donuts - Spring Hill, TN
Project Number: 2016.095

Disturbed Area = 0.10 ac
Required sediment storage = 67' DA 6.6 cy
Total Required Storage = 6.6 cy

Sediment barrier drainage area shall exceed 1/4 acre for every 100 linear feet of silt fence

Proposed LF Silt Fence = 278
Slope behind Silt Fence = 2.5:1 cy

Available Storage from Silt Fence = 12.9 cy
(1/2)' * 2.5 = 1.25 sf; 1.25 sf * 278 lf = 347.5 cf

EROSION & SILTATION NOTES

1. EXPOSED AREAS AND TIME OF EXPOSURE OF UNPROTECTED SOILS SHALL BE KEPT TO A MINIMUM WHENEVER POSSIBLE.
2. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS APPROVED BY THE OWNER'S REPRESENTATIVE.
3. DISTURBED AREAS ARE TO BE GRADED TO DRAIN AS INDICATED ON PLAN TO SEDIMENT BARRIERS DURING AND UPON COMPLETION OF CONSTRUCTION.
4. NO OTHER WORK WILL BE INITIATED ON THE PROJECT UNTIL THE EROSION/SILTATION MEASURES SHOWN ON THE PLANS AND DETAILS ARE PROPERLY IN PLACE.
5. IF, AT ANY TIME DURING THE CONSTRUCTION PHASE OF THIS PROJECT, THE EROSION/SILTATION MEASURES INSTALLED FAIL TO FUNCTION PROPERLY, NEED MAINTENANCE OR REPAIR, OR NEED NEW REPLACEMENT IN KIND, THE CONTRACTOR WILL EFFECT SUCH ACTIONS AS ARE NEEDED TO CORRECT THE SITUATION AT NO ADDITIONAL COST TO OWNER.
6. EROSION/SILTATION FENCING SHOWN IS TO BE USED AS A TEMPORARY SEDIMENT BARRIER. FENCING IS TO BE FIRM AND SECURELY TIED AS SHOWN ON INCLUDED DETAIL.
7. USE TEMPORARY VEGETATION AND/OR MULCH TO PROTECT BARE AREAS FROM SEDIMENT LOSS DURING AND UPON COMPLETION OF CONSTRUCTION.
8. UPON STABILIZATION OF THE PROJECT SITE WITH A GOOD & ACCEPTABLE STAND OF GRASS AND/OR GROUND COVER, THE EROSION/SILTATION INSTALLATIONS WILL BE REMOVED AND THE AREA DISTURBED WILL BE SEEDED AND MULCHED WITH THE SAME TREATMENT AS OTHER NEW GRASSSED AREAS OF THE PROJECT.
9. A STONE ACCESS PAD IS TO BE CONSTRUCTED WITH A MINIMUM WIDTH OF 20 FEET & MINIMUM LENGTH OF 100 FEET. RAMP IS TO BE BASED WITH 6 INCHES OF ASTM D 443, SIZE NO. 1 STONE, AND MAINTAINED THROUGHOUT CONSTRUCTION.
10. EROSION AND SEDIMENT CONTROL MUST BE IMPLEMENTED AND MAINTAINED. PERFORM ALL WORK IN ACCORDANCE WITH THE "BEST EROSION AND SEDIMENT CONTROL HANDBOOK", AUGUST 2012. FAILURE TO COMPLY TO THESE BMP PRACTICES MAY RESULT IN A STOP WORK ORDER AND FINES.
11. IN AREAS OF 3:1 OR GREATER SLOPE THAT EXCEED 5 FT IN UNINTERRUPTED VERTICAL ELEVATION CHANGE WILL RECEIVE NORTH AMERICAN GREEN SC150 EROSION CONTROL MAT SEDED FOR STABILIZATION (TEMPORARY OR PERMANENT). FOLLOW STABILIZATION PLAN INCLUDED IN APPROVED SWPPP FOR TEMPORARY & PERMANENT STABILIZATION OF SITE.
12. ALL PROPOSED INLETS WILL BE INSTALLED WITH SILT FENCE EROSION PROTECTION OR APPROVED MAT TYPE INLET FILTER UNTIL STABILIZATION IS ESTABLISHED.
13. PHASE 1 EPSC SHOWN ADJUSTMENTS TO BE MADE WHEN SLOPE CONSTRUCTION BEGINS TO KEEP SILT FENCE @ TOE OF SLOPE. REFER TO THE APPROVED SWPPP FOR ADDITIONAL PHASES OF EPSC INSTALLATION.
14. ALL OPEN FLOW CHANNELS AND OUTLET STRUCTURES ARE TO RECEIVE NORTH AMERICAN GREEN SC150 EROSION CONTROL MATTING FOR STABILIZATION.

PROJECT NARRATIVE

THIS PROJECT PROPOSES TO CONSTRUCT A 1,850 SQUARE FOOT DRIVE-THRU RESTAURANT WITH ASSOCIATED INFRASTRUCTURE AND SITE IMPROVEMENTS TO ADDRESS PARKING, VEHICULAR ACCESS, STORMWATER REGULATIONS, LANDSCAPING, AND OTHER MINOR SITE IMPROVEMENTS ON THE 0.391 & 0.328 ACRE PARCELS LOCATED AT 4885 PORT ROYAL RD, BEING TAX ID MAP 027, 30.06 & MAP 027, 01.02, IN THE 3RD CIVIL DISTRICT OF MAURY COUNTY, TENNESSEE. THE PROPOSED IMPROVEMENTS WILL DISTURB 0.685 ACRES AND CREATE 0.510 ACRES OF NEW IMPERVIOUS SURFACE.

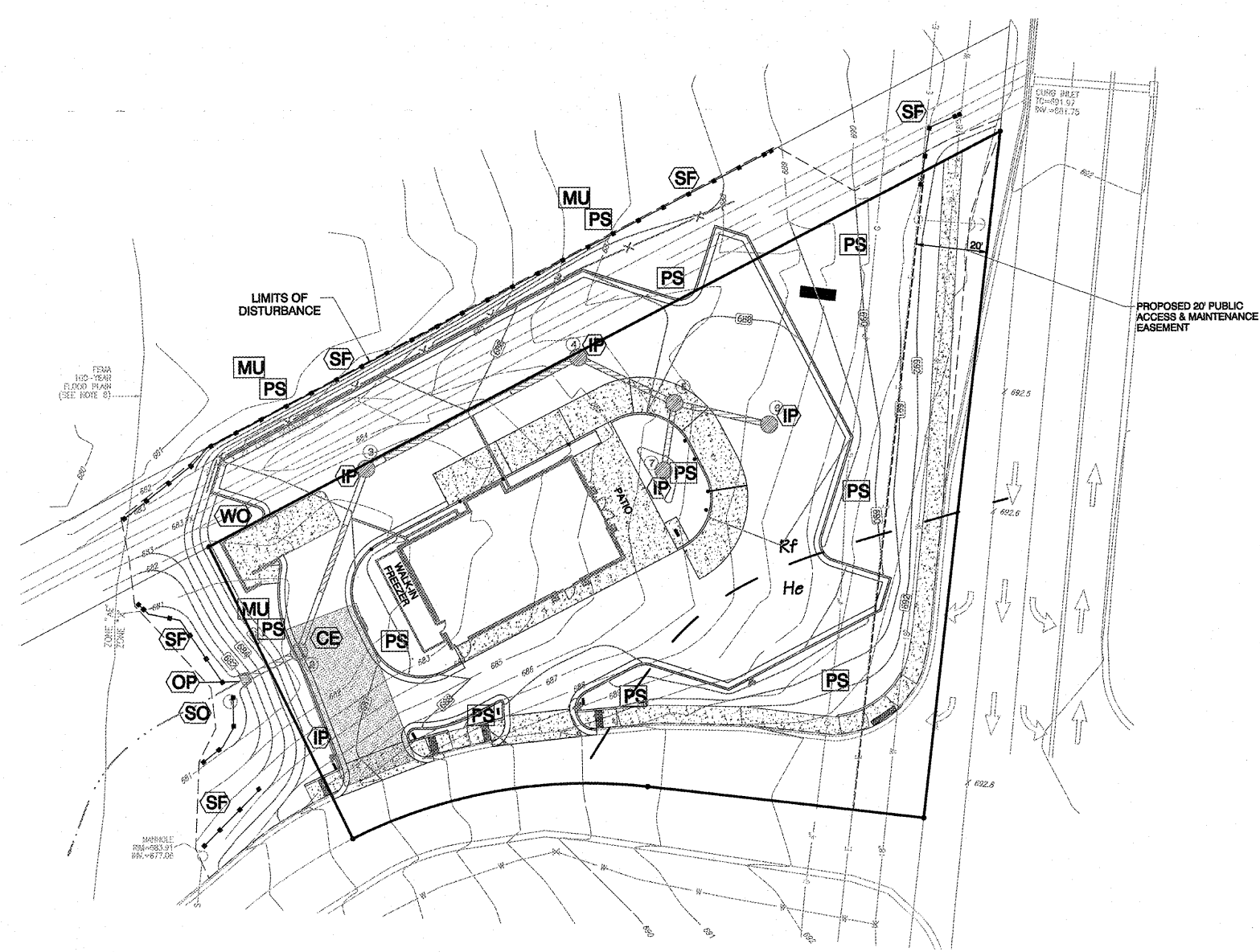
SOILS CHART

NRC3 - Web Soil Survey

Symbol	Name	Soil Group	Permeability	Depth
Rf	Rockland, fallbll material, sloping	c	Low	0-10 Inches
He	Hermhoge silt loam, eroded gently sloping phase	B	High	0-60 Inches

PHASE NOTES

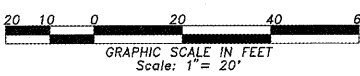
- PHASE 2:
- MAINTAIN TEMPORARY STABILIZATION MEASURES THROUGH CONSTRUCTION.
 - ONCE CONSTRUCTION IS COMPLETE, DISTRIBUTE FINAL & PERMANENT STABILIZATION.
 - ONCE FINAL STABILIZATION IS COMPLETE, REMOVE TEMPORARY EPSC MEASURES INCLUDING SILT FENCE AND INLET PROTECTION, PERMANENTLY STABILIZE DISTURBED AREAS, AND CLEAN SEDIMENT FROM STORM PIPES AND STRUCTURES.



- LEGEND**
- POB POINT OF BEGINNING
 - IPS IRON PIN SET
 - IPF IRON PIN FOUND
 - CMF CONCRETE MONUMENT FOUND
 - UP UTILITY POLE
 - LP LIGHT POLE
 - FP FLAG POLE
 - SSMH SANITARY SEWER MANHOLE
 - SDMH STORM DRAIN MANHOLE
 - DI DROP INLET
 - INV INVERT
 - FH FIRE HYDRANT
 - EP EDGE OF PAVEMENT
 - TC TOP OF CURB
 - BC BOTTOM OF CURB
 - TW TOP OF WALL
 - BW BOTTOM OF WALL
 - OUI OVERHEAD UTILITY
 - UE UNDERGROUND UTILITY
 - CMF CORRUGATED METAL PIPE
 - RCF REINFORCED CONCRETE PIPE
 - PVC POLYVINYL CHLORIDE PIPE
 - GUY GUY WIRE ANCHOR
 - TR TRANSFORMER
 - JB JUNCTION BOX
 - SWCB SINGLE WING CATCH BASIN
 - DWCB DOUBLE WING CATCH BASIN
 - CLF CHAIN LINK FENCE
 - WV WATER VALVE
 - WM WATER METER
 - CO SEWER CLEAN-OUT
 - GV GAS VALVE

- SOIL EROSION PROTECTION AND CONTROL MEASURES**
- CE CONSTRUCTION EXIT
 - SF SILT FENCE
 - IP INLET PROTECTION
 - PS PERMANENT SEEDING
 - OP OUTLET PROTECTION
 - SW SWPPP BOARD
 - SO SITE OUTFALL

EPSC Phase 2



TN EPSC
LEVEL 2 CERTIFICATION #
134494 EXP: 12/31/2019

24-HR CONTACT
ALLEN CURTIS
770-303-8200



EPSC Phase 2 Plan
Prepared For:

**DUNKIN'
DONUTS**

Developer:
**SHULER
DEVELOPMENT, LLC.**

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ATLANTA, GA 30359
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DATE: JUNE 11, 2017

THIRD CIVIL DISTRICT

A: Map 027, 30.06

B: Map 027, 01.02

CITY: SPRING HILL

COUNTY: MAURY

STATE: TENNESSEE

JOB NUMBER:
2016.095

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B OF 14 SHEETS

LAND ENGINEERING AND DEVELOPMENT