

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS**

SWCD: WEST GEORGIA

Project Name: WAL-MART SHADOW CENTER Address: 450 STRIPLING CHAPEL ROAD

City/County: CARROLLTON, CARROLL COUNTY, GEORGIA Date on Plans: AUGUST 1, 2022

Name & email of person filling out checklist: GREGORY J. DEWBERRY, PE, LS

Plan Included	Y/N
2	Y

TO BE SHOWN ON ES&PC PLAN

- 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
- 2 Level II certification number issued by the Commission, signature and seal of the certified design professional.
(Signature, seal and level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
- 3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. *
(A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
- 4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls
- 5 Provide the name, address, email address, and phone number of primary permittee.
- 6 Note total and disturbed acreages of the project or phase under construction.
- 7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees
- 8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
- 9 Description of the nature of construction activity and existing site conditions.
- 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
- 11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
- 12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit
- 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit. *
- 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit. *
- 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wretched vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
- 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
- 17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *

- 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
- 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
- 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
- 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
- 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biola Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
- 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
- 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
- 25 Provide BMPs for the remediation of all petroleum spills and leaks.
- 26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
- 27 Description of practices to provide cover for building materials and building products on site. *
- 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
- 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
- 30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
- 31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
- 32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
- 33 Description of analytical methods to be used to collect and analyze the samples from each location. *
- 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
- 35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
- 36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *

- 37 Graphic scale and North arrow.
- 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

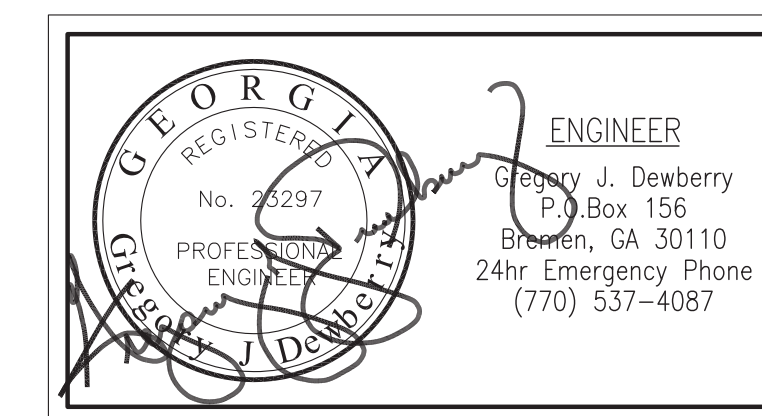
Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2.5 or 10
- 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
- 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
- 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
- 42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
- 43 Delineation and acreage of contributing drainage basins on the project site.
- 44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
- 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
- 46 Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
- 47 Soil series for the project site and their delineation.
- 48 The limits of disturbance for each phase of construction.
- 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
- 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
- 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
- 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.
* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2022

NO	DATE	DESCRIPTION	REVISE PER COMMENTS
1	08/30/2022		

PROJECT NO. 2022105
SCALE: NTS
CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA
450 STRIPLING CHAPEL ROAD
GSWCC CHECKLIST
WAL-MART SHADOW CENTER

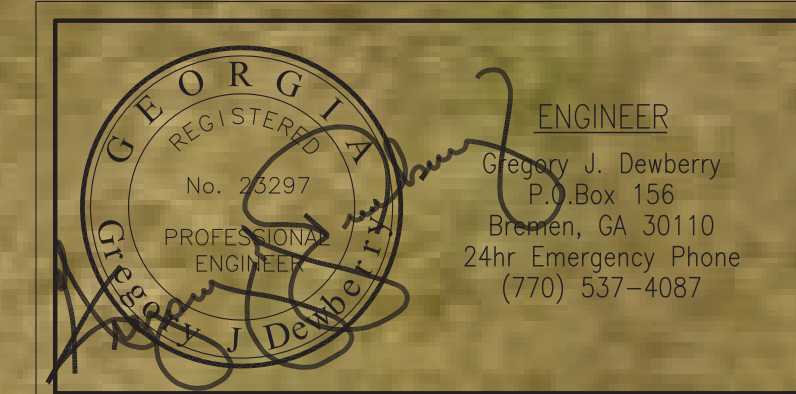
CIVIL SOLUTIONS
ENGINEERING & LAND SURVEYING
Gregory J. Dewberry, PE, LS
P.O. Box 156
Bremen, Georgia 30110
(770) 537-4087





SITE

Striping Chapel Rd



CIVIL SOLUTIONS
ENGINEERING & LAND SURVEYING
Gregory J. Dewberry, PE, LS
P.O. Box 156
Bremen, Georgia 30110
(770) 537-4087

WAL-MART SHADOW CENTER
AERIAL IMAGE
450 STRIPLING CHAPEL ROAD
CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA
SCALE: AS SHOWN

NO	DATE	DESCRIPTION
1	08/30/2022	REVISED PER COMMENTS

PROJECT NO. 2022105

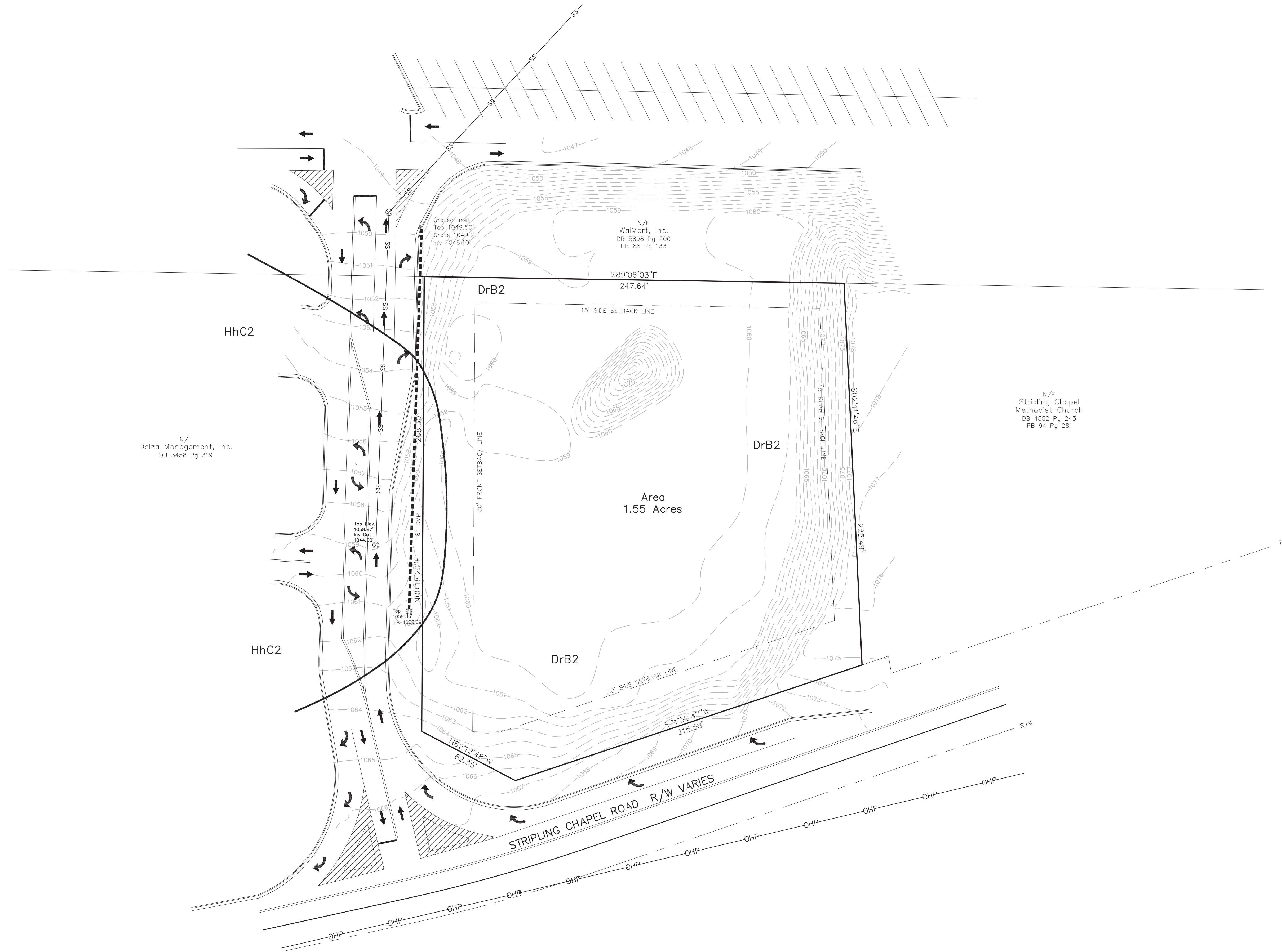
DATE: AUGUST 1, 2022

NO	DATE	DESCRIPTION
1	08/30/2022	REVISED PER COMMENTS

WAL-MART SHADOW CENTER
 TOPOGRAPHIC MAP
 450 STRIPLING CHAPEL ROAD
 CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA
 PROJECT NO. 2022105

CIVIL SOLUTIONS
 ENGINEERING & LAND SURVEYING
 Gregory J. Dewberry, PE, LS
 P.O. Box 156
 Bremen, Georgia 30110
 (770) 537-4087

DATE: AUGUST 1, 2022 SCALE: 1" = 30'

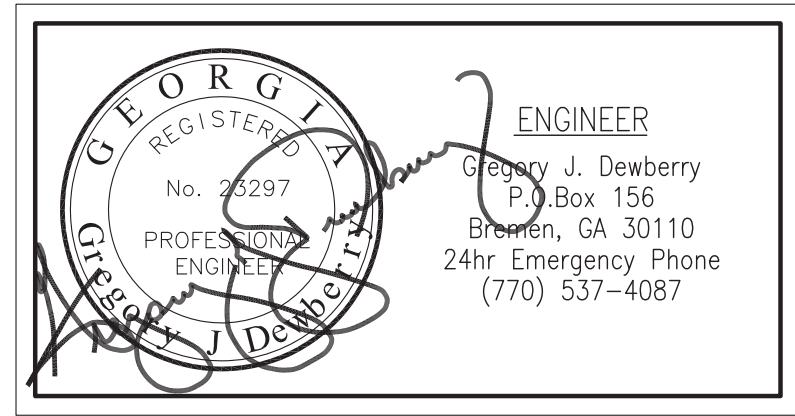
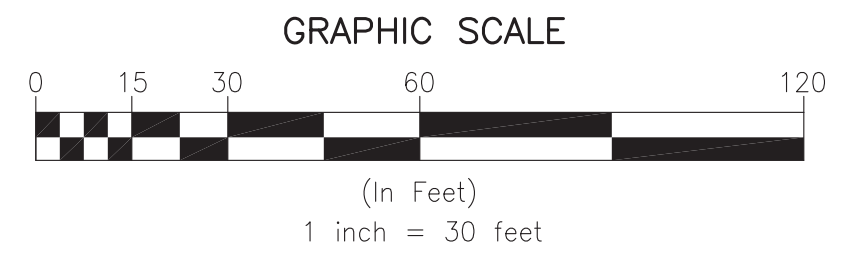


PLAT ABBREVIATIONS

IPF	- Iron Pin Found
IPS	- Iron Pin Set
FPS	- Fence Post Set
OTF	- Open Top Pipe
CTP	- Crimp Top Pipe
Conc.	- Concrete
Alumin.	- Aluminum
P/L	- Property Line
R/W	- Right of Way
C/L	- Centerline
F/L	- Fenceline
T/L	- Transmission Line
N/F	- Now or Formerly
DB	- Deed Book
PB	- Plat Book
MF	- Map File No.

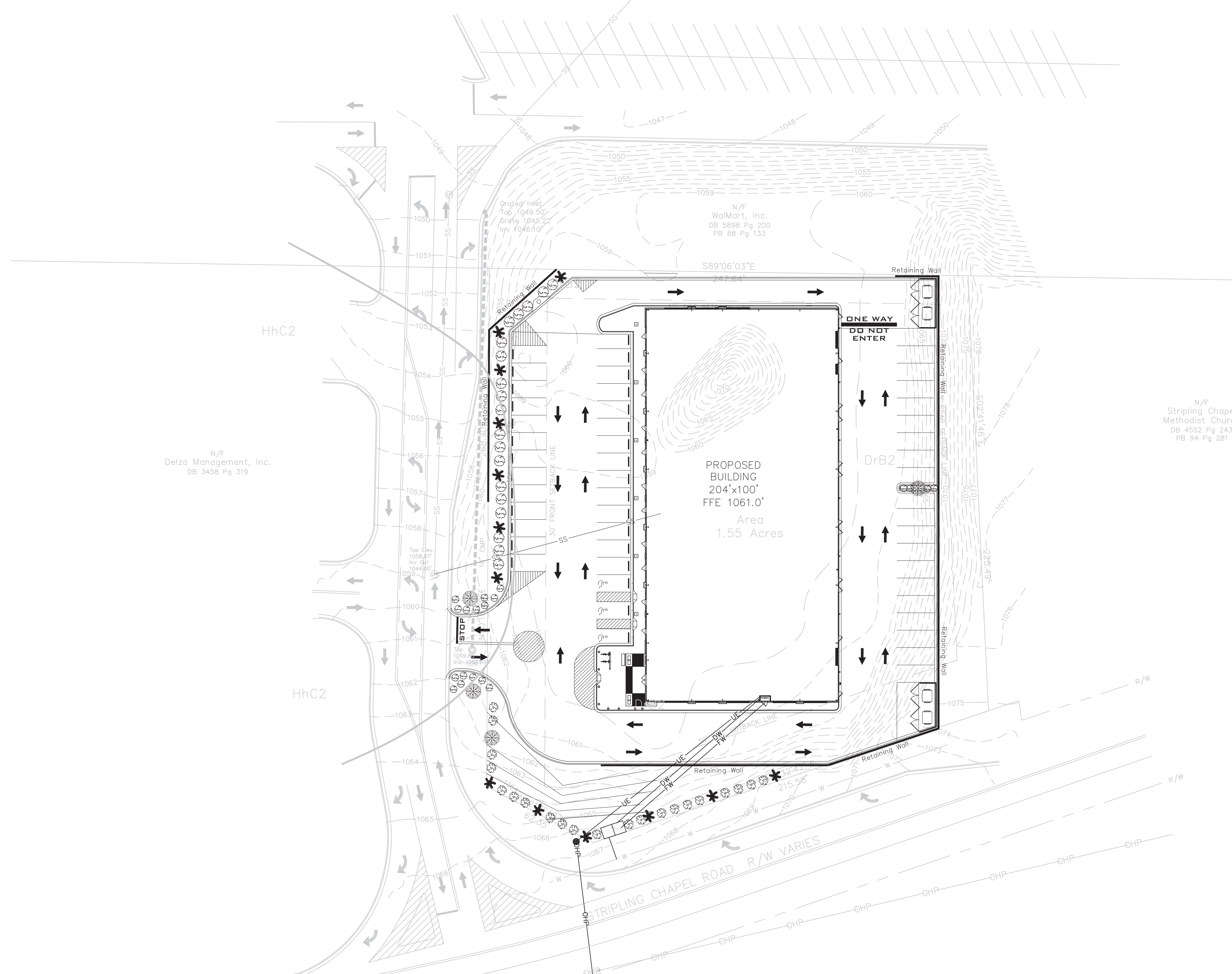
State Waters are NOT located within 200 feet of the proposed site. Non-exempt activities shall not be conducted with the 25 foot undisturbed stream buffer as measured from the point of wrested vegetation without first acquiring the necessary variances and permits.

SOILS INDEX:
 DrB2 - Davidson gravelly loam; 2 to 6% slopes, eroded
 HhC2 - Hulet sandy loam; 6 to 10% slopes, eroded



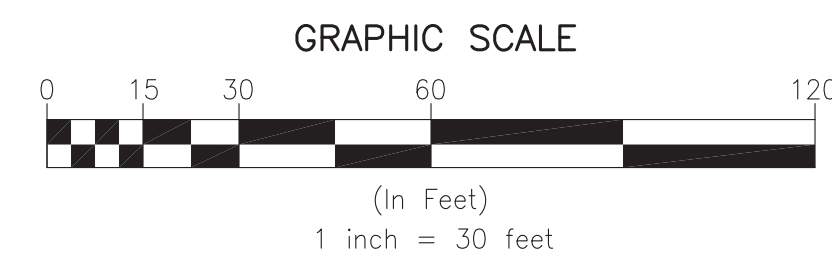
PROPOSED RETAINING WALLS
 BY OTHERS

CONSTRUCTION ACTIVITY SCHEDULE	
DATE	ACTIVITY
10/2022	PHASE I - Install Erosion Control Measures
10/2022	Install Construction Exit
10/2022	Install Sediment Basin
10/2022	Clear and Grub Site
11/2022	PHASE II - Mass Grading
11/2022	Install Stormwater Conveyance System
11/2022	Place Temporary Ground Cover/Grassing
12/2022	PHASE III - Place Final Driving Surface
12/2022	Final Site Stabilization

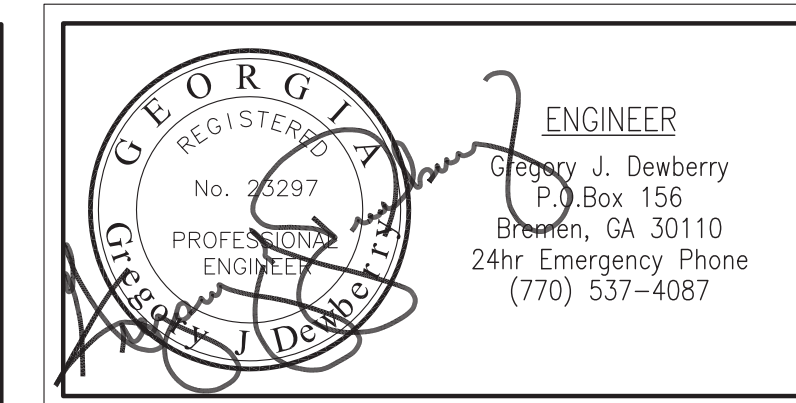


PLAT ABBREVIATIONS

- IPF - Iron Pin Found
- IPS - Iron Pin Set
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- OTF - Open Top Pipe
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- Conc. - Concrete
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- P/L - Property Line
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- N/F - Now or Formerly
- DB - Deed Book
- PB - Plat Book
- MF - Map File No.



CONTOUR LEGEND	
	Existing Contours
	Proposed Contours



NO	DATE	DESCRIPTION
1	08/30/2022	REVISED PER COMMENTS

WAL-MART SHADOW CENTER
GENERAL PLAN
 450 STRIPLING CHAPEL ROAD
 CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA
 PROJECT NO. 2022105
 DATE: AUGUST 1, 2022
 SCALE: 1" = 30'

CIVIL SOLUTIONS
 ENGINEERING & LAND SURVEYING
 Gregory J. Dewberry, PE, LS
 P.O. Box 156
 Bremen, Georgia 30110
 (770) 537-4087

NO	DATE	DESCRIPTION	REVISED PER COMMENTS
1	08/30/2022		

PROJECT NO. 2022105
 WAL-MART SHADOW CENTER
 PHASE I EROSION CONTROL PLAN
 450 STRIPLING CHAPEL ROAD
 CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA
 SCALE: 1" = 30'

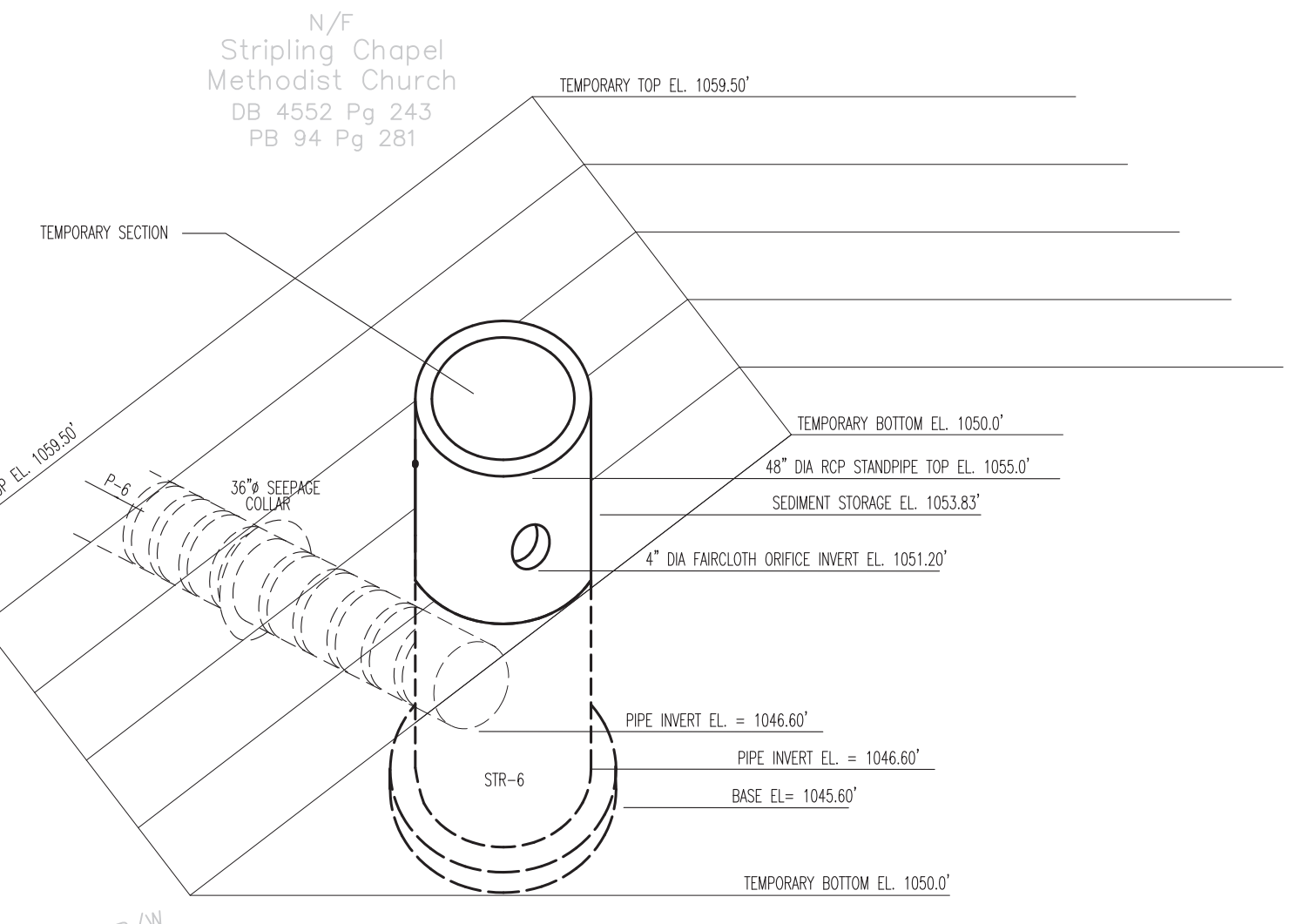
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 P.O. Box 156
 Bremen, Georgia 30110
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EROSION CONTROL SYMBOLS		
Bu	Buffer Zone	A strip of undisturbed, original land or vegetation surrounding either the disturbed site or bordering streams.
Cd	Check Dam	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	Channelization	Improving, constructing, or stabilizing an open channel for water conveyance through the use of grass, stone, concrete or other stable materials.
Co	Construction Exit	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Di	Diversion	A ridge of compacted soil constructed above, across, or below a slope to reduce slope lengths and intercept stormwater runoff.
Dn1	Temporary Downdrain Structure	A pipe used as a temporary structure to convey a concentration of stormwater down the face of an exposed slope.
Dn2	Permanent Downdrain Structure	A permanent structure to safely convey a concentration of stormwater from the top of a slope to the bottom of a slope.
Ds1	Disturbed Area Stabilization [With Mulching Only]	Applying plant residues or other suitable materials not produced on the site to the soil surface.
Ds2	Disturbed Area Stabilization [Temporary]	Establishing temporary vegetative cover with fast growing seedlings on disturbed or denuded areas.
Ds3	Disturbed Area Stabilization [Permanent]	Establishing permanent vegetative cover such as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
Du	Dust Control	Controlling surface and air movement of dust on construction sites, roads, and demolition sites through the use of surface treatments.
Fr	Filter Ring	A temporary stone barrier constructed at storm drain inlets and pond outlets.
Gr	Grade Stabilization Structure	A structure to stabilize the grade in natural or artificial channels by preventing the formation or advance of gullies and reducing erosion.
Lv	Level Spreader	A storm flow outlet device constructed at zero grade across a slope whereby runoff may be discharged at non-erosive velocities.
Rd	Rock Filter Dam	Permanent or temporary stone filter dam installed across small streams or drainageways to serve as a sediment filtering device.
Re	Retaining Wall	A constructed wall of masonry, reinforced concrete, treated timbers, or modular stone to assist in the stabilization of cut or fill slopes.
Rt	Retrofitting	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary filter.
Sd1-S	Reinforced Sediment Barrier	A temporary structure typically constructed of silt fence supported by steel posts with wire mesh reinforcing.
Sd2	Inlet Sediment Trap	A temporary protective structure or device formed around a storm drain drop inlet to trap sediment prior to stabilization.
Sd3	Temporary Sediment Basin	A basin created by the construction of a barrier dam across a waterway or by excavating a basin to detain sediment.
Sk	Floating Surface Skimmer	A buoyant device that releases or drains water from the surface of sediment ponds, traps or basins at a controlled rate of flow.
Ss	Slope Stabilization	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
St	Storm Drain Outlet Protection	Paved and/or riprapped channel sections, placed below storm drain outlets to reduce velocity of flow before entering receiving channels.
Tp	Topsoling	Stripping of the more fertile topsoil, storing it, and spreading it over the disturbed area after completion of construction activities.
Wt	Vegetated Waterway	A natural or constructed channel that is shaped or graded to required dimensions and stabilized for the conveyance of stormwater runoff.

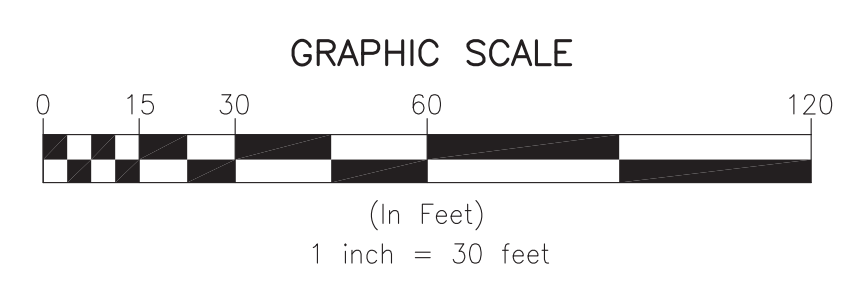
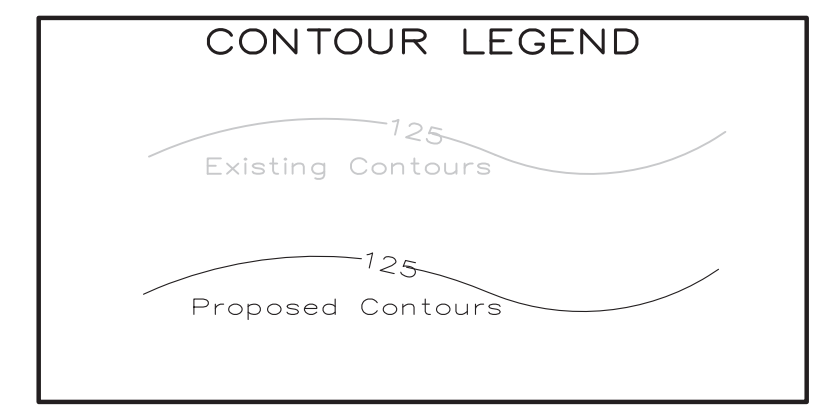
Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.

Washout of the concrete drum at the construction site is prohibited.

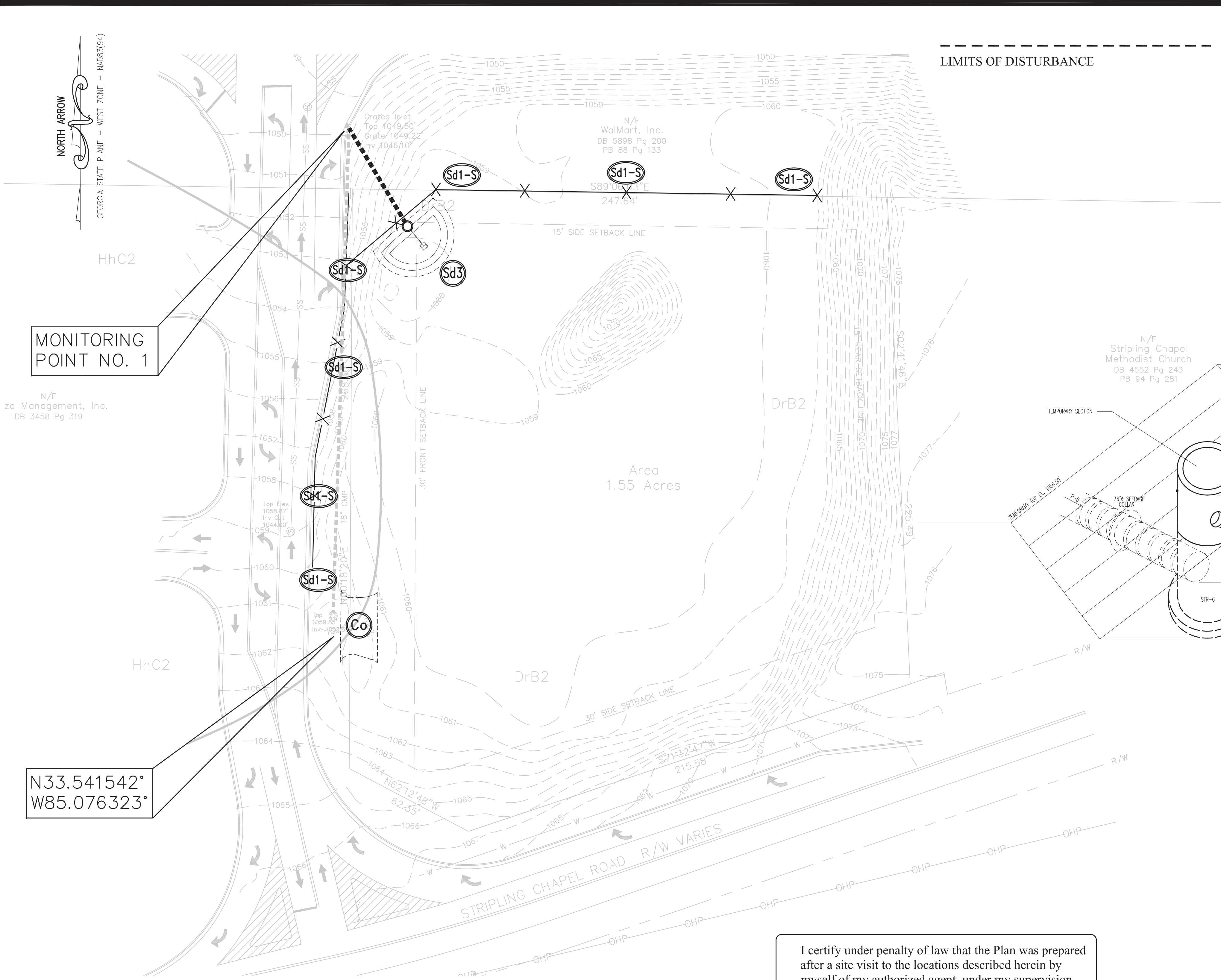
Owner/Developer Delza Management, Inc. 2470 Windy Hill Road, SE Suite 256 Marietta, Georgia 30067 770-830-8856	24-hour Erosion Control Contact Gregory J. Dewberry P.O. Box 156 Bremen, Georgia 30110 24hr Emergency Phone 770-537-4087
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SITE AREA = 1.55 Acres
 DISTURBED AREA = 0.2 Acre



LIMITS OF DISTURBANCE



I certify under penalty of law that the Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision.

The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMP's within 7 days after installation.

I do hereby certify that I have visited this site prior to the design of the Erosion and Sediment Control Plan. Furthermore, I do hereby certify that this Plan provides for an appropriate and comprehensive system of Best Management Practices (BMP's) and sampling expected to meet permit requirements. I further certify that I, as the design professional, shall inspect the installation of the initial sediment storage requirements and perimeter control BMP's within seven (7) days after said measures have been completely installed. Amendments or revisions to the ES&PC Plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional.

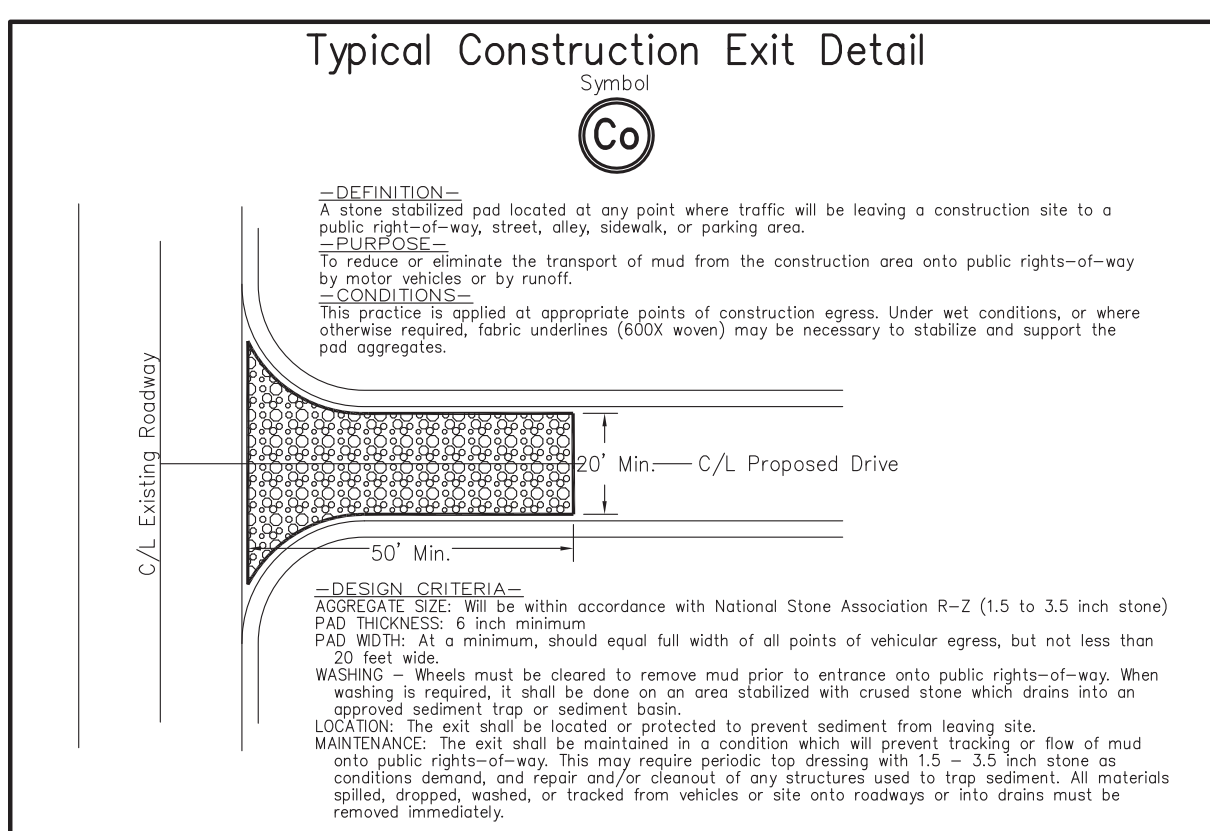
Amendments or revisions to the ES&PC Plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional.

State Waters are NOT located within 200 feet of the proposed site. Non-exempt activities shall not be conducted with the 25-foot undisturbed stream buffer as measured from the point of unrestored vegetation without first acquiring the necessary variances and permits.

Any disturbed area left exposed for a period of time greater than 14 days shall be stabilized with mulch or temporary seeding.

The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities.

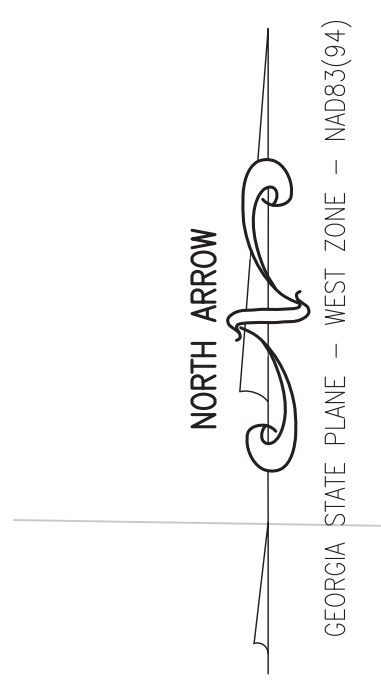
Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.



MONITORING POINT NO. 1

N/F za Management, Inc.
DB 3458 Pg 319

N33.541542°
W85.076323°



NO	DATE	DESCRIPTION	REVISED PER COMMENTS
1	08/30/2022		

PROJECT NO. 2022105
 WAL-MART SHADOW CENTER
 GRADING PLAN
 450 STRIPLING CHAPEL ROAD
 CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA
 DATE: AUGUST 11, 2022
 SCALE: 1" = 30'

CIVIL SOLUTIONS
 ENGINEERING & LAND SURVEYING
 Gregory J. Dewberry, PE, LS
 P.O. Box 156
 Bremen, Georgia 30110
 (770) 537-4087

Grading Specifications

- Soil backfill shall be free of debris, organic matter, or rock larger than 1/2 cubic foot.
- Excavate to lines and levels indicated. If soil conditions permit, cut footing trenches to exact size of concrete and omit forms.
- Earth excavation includes removal and disposal of material of unsatisfactory material.
- Notify engineer/architect immediately if doubtful bearing is encountered.
- Slope sides of excavations to comply with local codes and ordinances having jurisdiction. Shore and brace where sloping is not possible because of space restrictions or stability of material excavated.
- Prevent surface water and subsurface or ground water from flowing into excavations and from flooding project site and surrounding area.
- Do not allow water to accumulate in excavations. Remove water to prevent softening of foundation bottoms, undercutting footings, and soil changes detrimental to stability of subgrades and foundations.
- Establish and maintain temporary drainage ditches and other diversions outside excavation limits to convey rainwater and water removed from excavations to collecting or runoff areas.
- Conform to elevations and dimensions shown within a tolerance of 0.10' of published elevations.
- Owner will select and provide testing service under separate contract to provide field quality control during earthwork execution.
- Control soil compaction during construction providing minimum percentage of density specified.
- Beneath building slabs and pavement, scarify and recompact top 8 inches of subgrade and each succeeding layer to 95 percent of maximum density.
- For non-bearing areas, scarify and recompact top 8 inches of subgrade and each succeeding layer to 90 percent of maximum density.
- Place fill materials in layers no more than 8 inches in loose depth for heavy compaction methods and 4" for hand tamping methods.
- Uniformly grade areas within limits of grading including adjacent transition areas. Smooth finish surface within specified tolerances, compact with uniform levels or slopes between points where elevations are indicated.
- Grade areas adjacent to building lines to drain away from structures and to prevent ponding. Finish surfaces free from irregular surface changes.
- Locate existing underground utilities in areas of work.
- Barricade open excavations and post with warning signs.
- Protect utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, and washout.

UTILITIES PROTECTION CENTER
 "Call Before You Dig" - 811

The contractor will notify the Authorities when approaching or before working in an area with Gas, Power, or Water facilities. Contractor shall call the Utilities Protection Center prior to construction at 1-800-282-7411 as per Georgia Law, and shall ensure that all utilities affected have located their respective facilities.

Project Name: WAL-MART SHADOW CENTER
 Basin No.: A
 Total Area Draining to Basin: 1.62 acres
 Disturbed Area Draining to Basin: 1.37 acres

VOLUME:

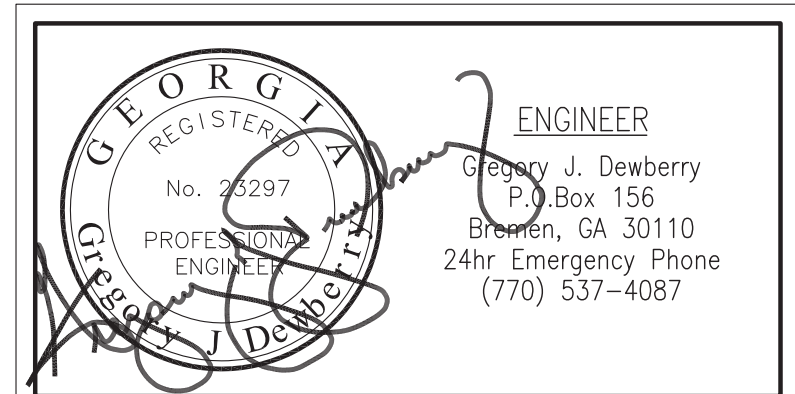
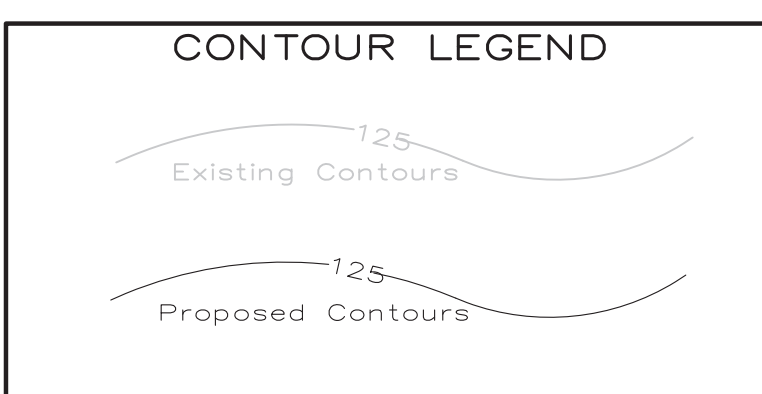
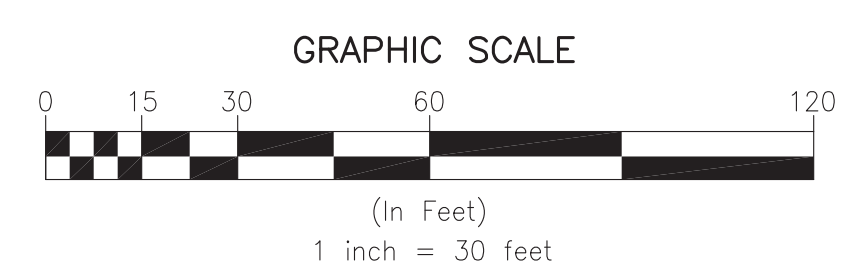
- Compute minimum required storage volume (Vs).
 $V_s = 67 \text{ cu yds/acre}$
 $V_s = 67 * 1.37 = 91.79 \text{ cu yds} = 2,478 \text{ cu ft}$
- Compute volume of basin at cleanout (Vc).
 $V_c = 22 \text{ cu yds/acre}$
 $V_c = 22 * 1.37 = 30.14 \text{ cu yds} = 814 \text{ cu ft}$
- Determine elevation corresponding to minimum required storage volume (Vs).
 Minimum riser crest elevation = 1055.0 ft
- Determine elevation corresponding to cleanout volume (Vc).
 Cleanout elevation = 1053.83 ft
- Compute minimum length of riser.
 Riser length = Minimum riser crest elevation - Invert of riser
 $\text{Riser length} = 1055.00 \text{ ft} - 1050.00 \text{ ft}$
 $\text{Riser length} = 5.00 \text{ ft}$

STORMWATER RUNOFF

- Compute peak discharge for a 2-year, 24-hour storm
 $Q(2) = C^*I^*A$
 $Q(2) = 0.85 * 2.5 * 1.37$
 $Q(2) = 2.91 \text{ cfs}$
- Compute peak discharge for a 25-year, 24-hour storm
 $Q(25) = C^*I^*A$
 $Q(25) = 0.85 * 3.6 * 1.37$
 $Q(25) = 4.19 \text{ cfs}$

SURFACE AREA/DESIGN CONFIGURATION

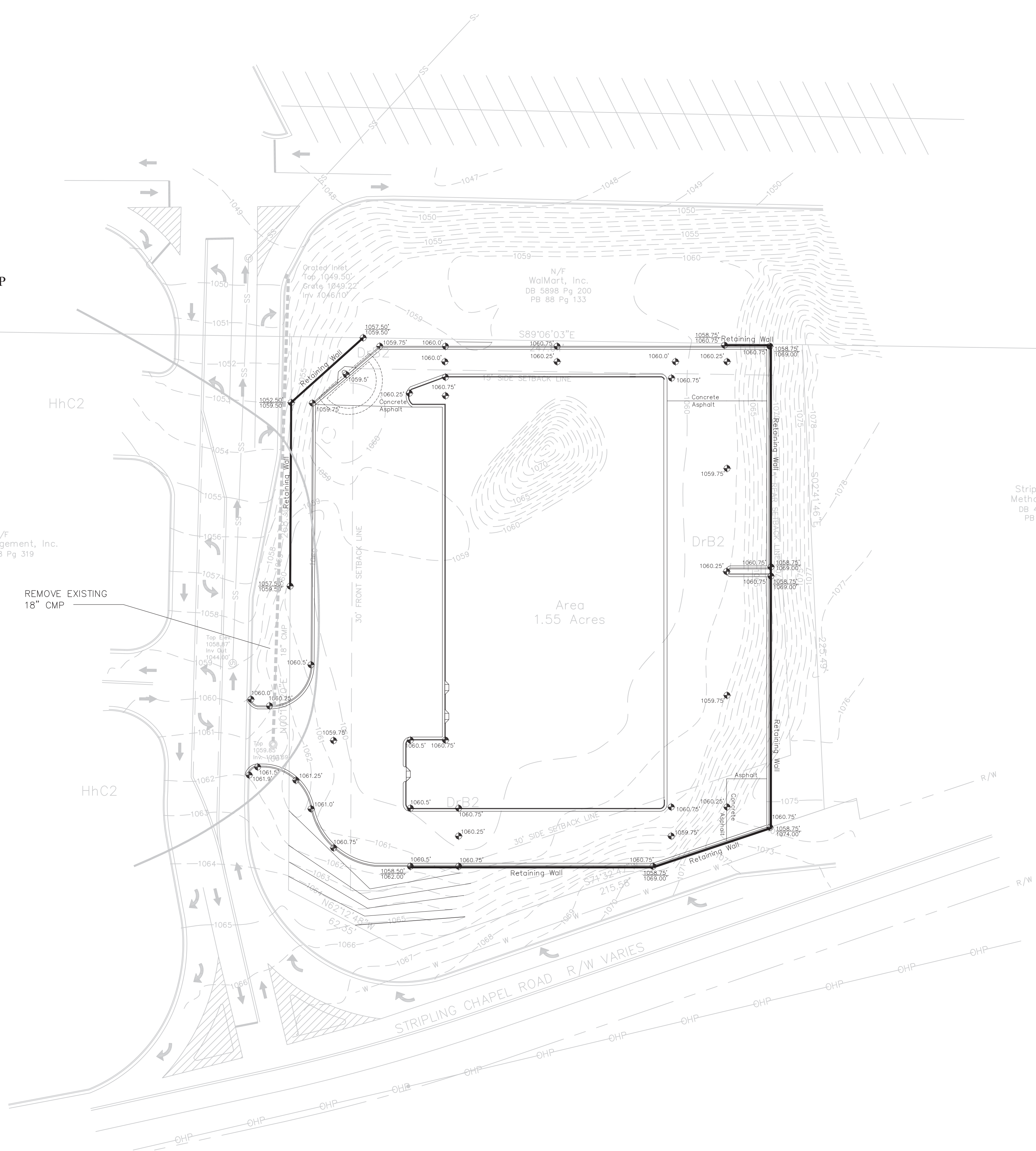
- Compute minimum basin surface area (SAmin).
 $SA_{min} = 0.01ac/cfs * Q(2)$
 $SA_{min} = 0.01ac/cfs * 2.91 \text{ cfs}$
 $SA_{min} = 0.29 \text{ ac} = 12,632 \text{ sf}$
- Check available area at riser crest elevation.
 Available area = 18,327 sf from stage/storage relationship
 $18,327 > 12,632 \text{ sf}$
 Available Area > SAmin
- Compute length required to achieve a 2:1 L:W ratio.
 Average basin width = 25 ft
 Required basin length = 2 * average basin width
 Required basin length = 2 * 25 = 50 ft
 Available basin length = 65 ft
 $65 \text{ ft} / 25 \text{ ft} = 2.60 \text{ Basin Length to Width Ratio}$



PROPOSED RETAINING WALLS BY OTHERS

ELEVATIONS SHOWN ARE TOP OF FINISHED GRADE.

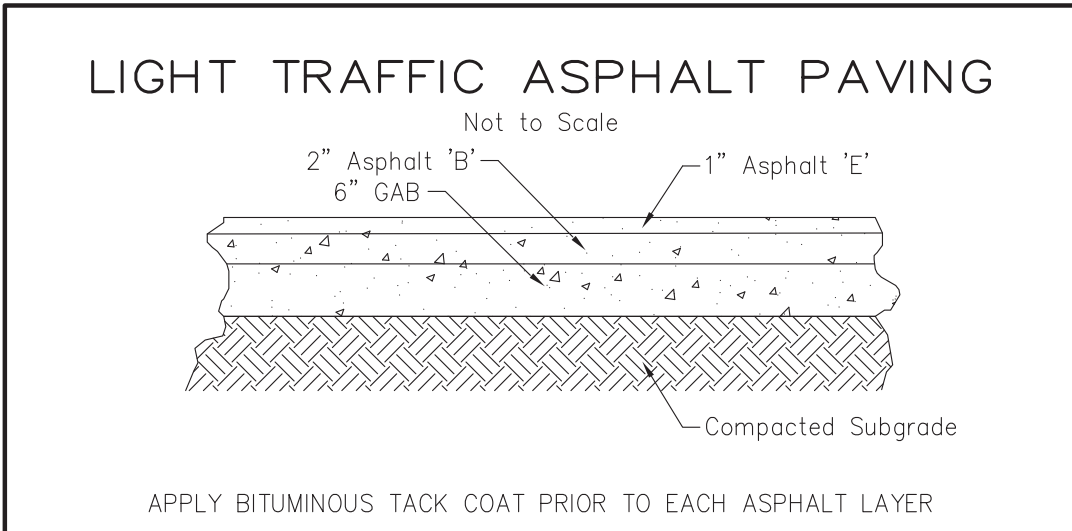
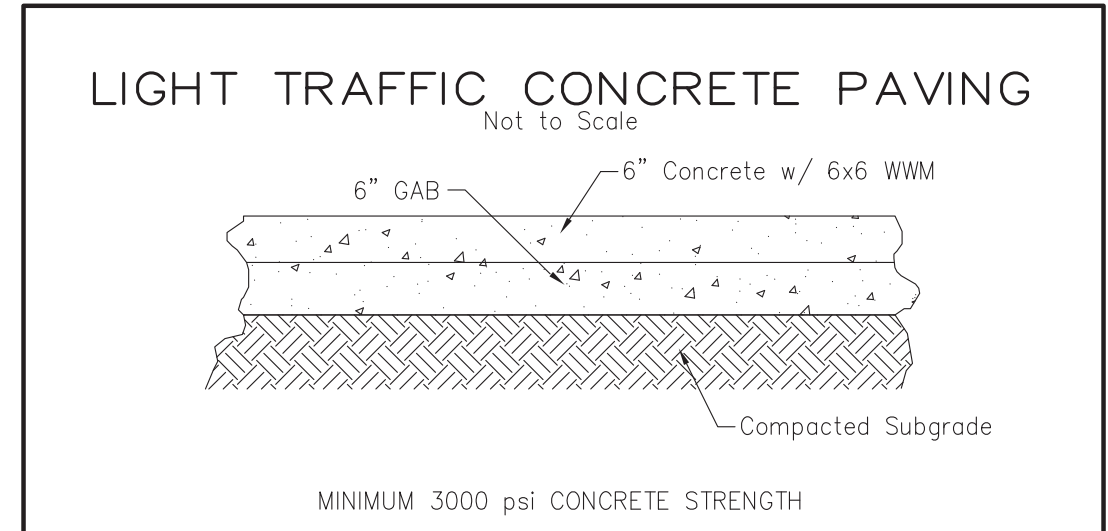
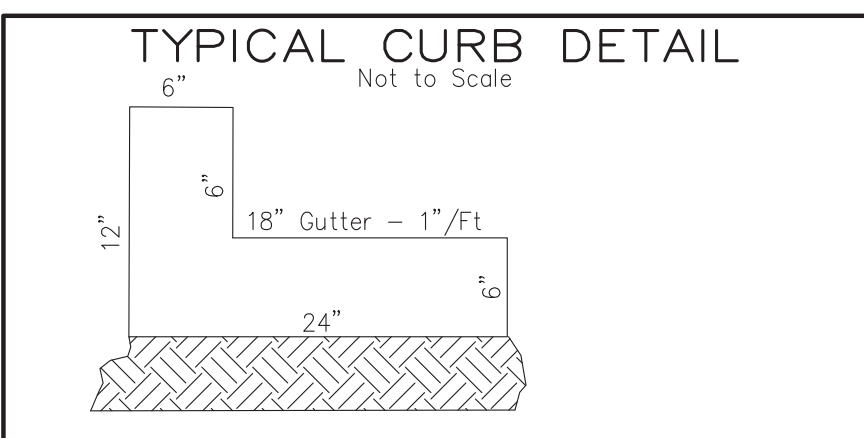
1057.50' BOTTOM OF WALL FOOTING ELEVATION
 1059.50' TOP OF WALL FOOTING ELEVATION



Washout of the concrete drum at the construction site is prohibited.

PLAT ABBREVIATIONS

IPF	-	Iron Pin Found
IPS	-	Iron Pin Set
FPS	-	Fence Post Set
OTF	-	Open Top Pipe
CTP	-	Crimp Top Pipe
Conc.	-	Concrete
Alumn.	-	Aluminum
P/L	-	Property Line
R/W	-	Right of Way
C/L	-	Centerline
F/L	-	Fenceline
T/L	-	Transmission Line
N/F	-	Now or Formerly
DB	-	Deed Book
PB	-	Plat Book
MF	-	Map File No.



WAL-MART SHADOW CENTER

STORMWATER PIPING PLAN

450 STRIPLING CHAPEL ROAD
CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

PROJECT NO. 2022105

SCALE: 1" = 40'

DATE: AUGUST 1, 2022

CIVIL SOLUTIONS
ENGINEERING & LAND SURVEYING

Gregory J. Dewberry, PE, LS
P.O. Box 156
Bremen, Georgia 30110
(770) 537-4087

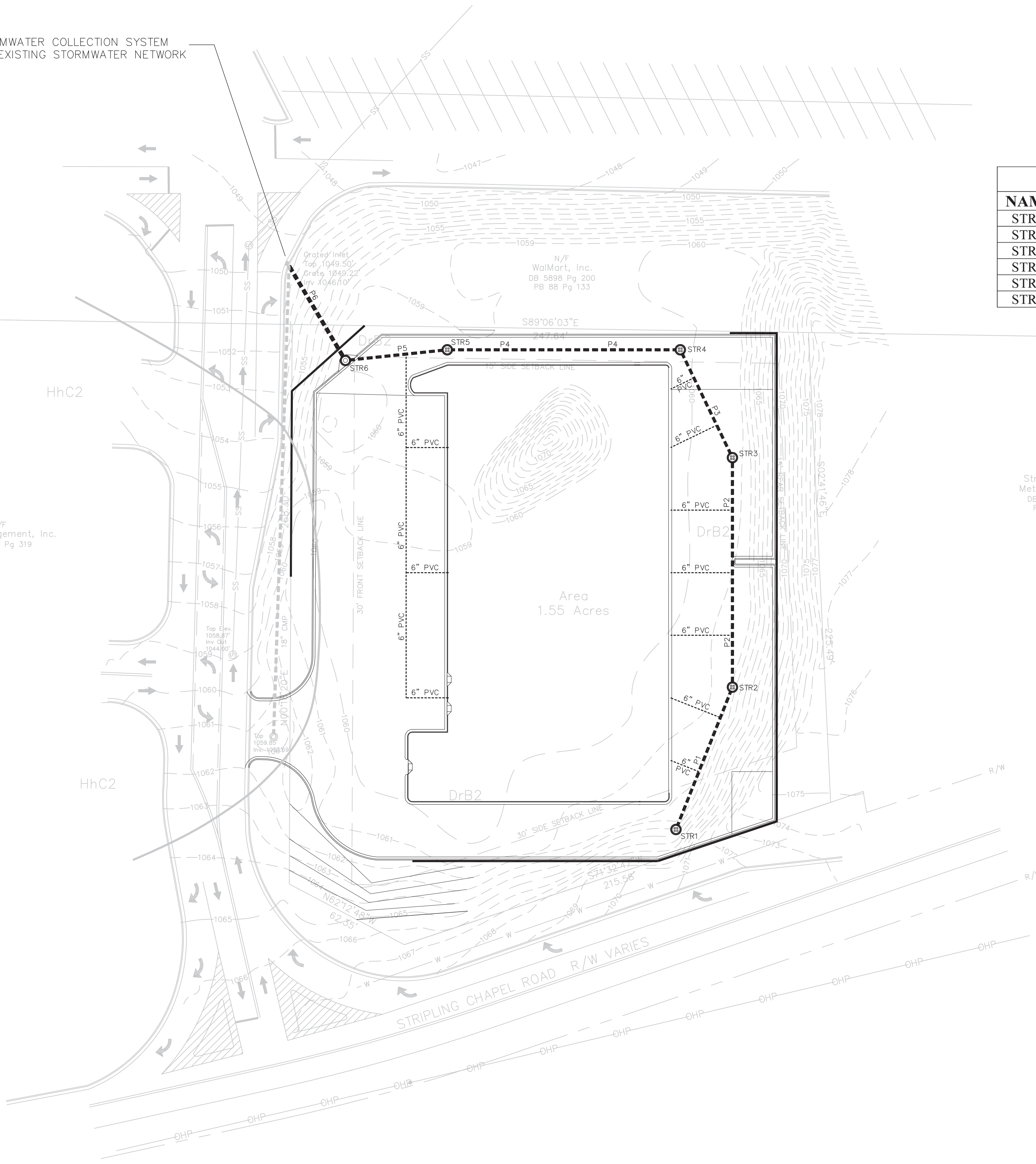
NO	DATE	DESCRIPTION
1	08/30/2022	REVISED PER COMMENTS

PIPE TABLE						
LABEL	LENGTH (ft)	DIAMETER (inch)	TYPE	FROM	TO	INVERT IN / INVERT OUT
P-1	73	18	HDPE	STR-1	STR-2	1055.25' / 1054.50'
P-2	110	18	HDPE	STR-2	STR-3	1054.50' / 1053.40'
P-3	37	18	HDPE	STR-3	STR-4	1053.40' / 1052.80'
P-4	112	18	HDPE	STR-4	STR-5	1052.80' / 1051.70'
P-5	50	18	HDPE	STR-5	STR-6	1051.70' / 1051.20'
P-6	50	24	HDPE	STR-6	EXISTING	1046.60' / 1046.10'

STRUCTURE TABLE					
NAME	DESCRIPTION	TOP	THROAT	INV	INV
STR-1	48" Dia Concrete w/2x2 Grate	1059.75'	---	---	1055.25'
STR-2	48" Dia Concrete w/2x2 Grate	1059.75'	---	---	1054.50'
STR-3	48" Dia Concrete w/2x2 Grate	1059.75'	---	---	1053.40'
STR-4	48" Dia Concrete w/2x2 Grate	1060.00'	---	---	1052.80'
STR-5	48" Dia Concrete w/2x2 Grate	1060.00'	---	---	1051.70'
STR-6	48" GDOT Sag Catch Basin	1059.50'	1058.75'	1051.20'	1046.60'

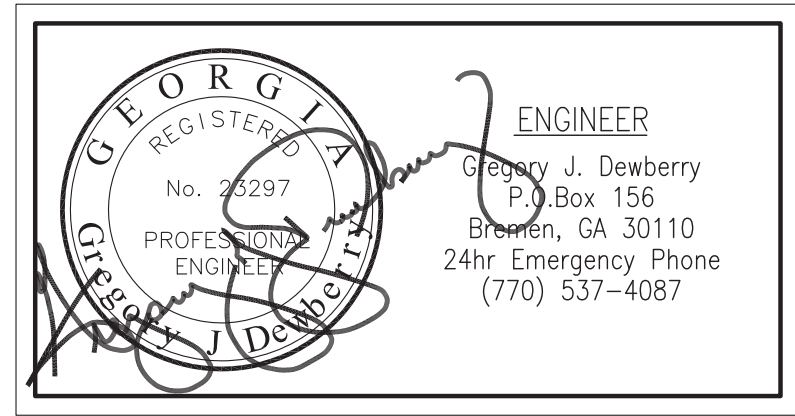
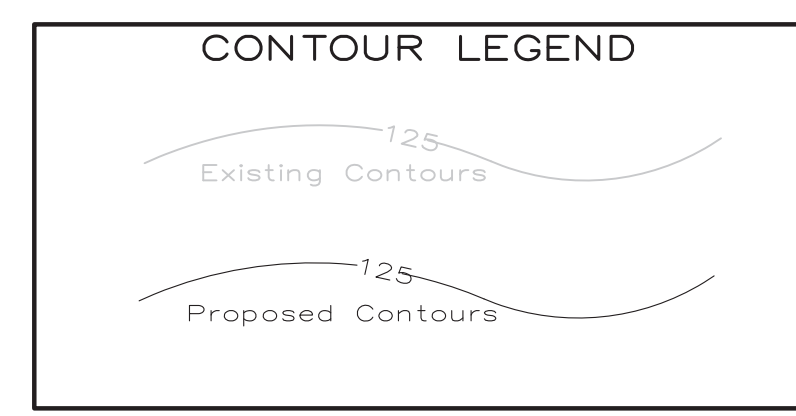
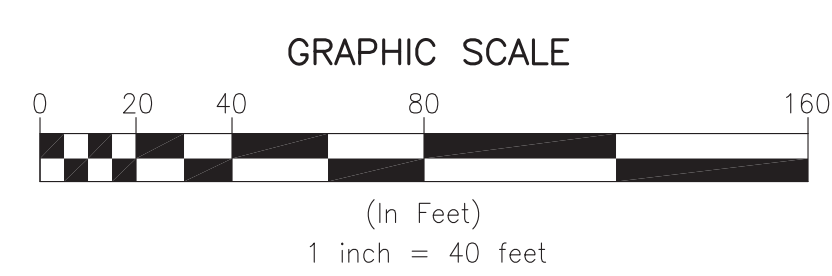


PROPOSED STORMWATER COLLECTION SYSTEM
TO BE TIED TO EXISTING STORMWATER NETWORK



PLAT ABBREVIATIONS

- IPF - Iron Pin Found
- IPS - Iron Pin Set
- FPS - Fence Post Set
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NO.	DATE	DESCRIPTION	REVISED PER COMMENTS
1	08/30/2022		

PROJECT NO. 2022105
 WAL-MART SHADOW CENTER
 PHASE II EROSION CONTROL PLAN
 450 STRIPLING CHAPEL ROAD
 CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

CIVIL SOLUTIONS
 ENGINEERING & LAND SURVEYING
 Gregory J. Dewberry, P.E., L.S.
 P.O. Box 156
 Bremen, Georgia 30110
 (770) 537-4087

EROSION CONTROL SYMBOLS		
Bu	Buffer Zone	A strip of undisturbed, original land or vegetation surrounding either the disturbed site or bordering streams.
Cd	Check Dam	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	Channelization	Improving, constructing, or stabilizing an open channel or water conveyance through the use of grass, stone, concrete or other stable materials.
Co	Construction Exit	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Di	Diversion	A ridge of compacted soil constructed above, across, or below a slope to reduce slope lengths and intercept stormwater runoff.
Dn1	Temporary Downdrain Structure	A pipe used as a temporary structure to convey a concentration of stormwater down the face of an exposed slope.
Dn2	Permanent Downdrain Structure	A permanent structure to safely convey surface runoff from the top of a slope to the bottom of a slope.
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Ds2	Disturbed Area Stabilization [Temporary]	Establishing temporary vegetative cover with fast growing seedlings on disturbed or denuded areas.
Ds3	Disturbed Area Stabilization [Permanent]	Establishing permanent vegetative cover such as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
Du	Dust Control	Controlling surface and air movement of dust on construction sites, roads, and demolition sites through the use of surface treatments.
Fr	Filter Ring	A temporary stone barrier constructed at storm drain inlets and pond outlets.
Gr	Grade Stabilization Structure	A structure to stabilize the grade in natural or artificial channels by preventing the formation or advance of gullies and reducing erosion.
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Tp	Topsoling	Stripping of the more fertile topsoil, storing it, then spreading it over the disturbed area after completion of construction activities.
Wt	Vegetated Waterway	A natural or constructed channel that is shaped or graded to required dimensions and stabilized for the conveyance of stormwater runoff.

There are no planned encroachments to the buffer areas shown on this Plan. Correspondingly, no variances are required.

Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.

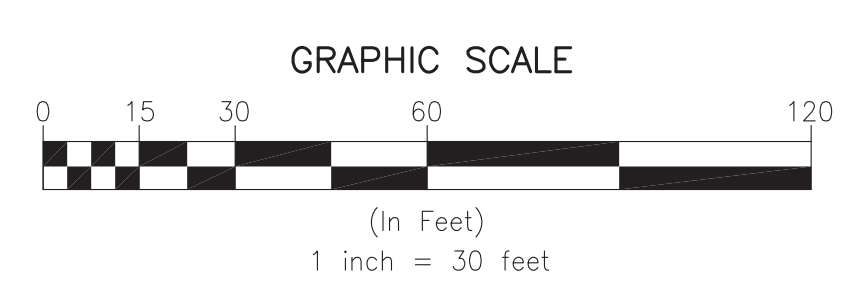
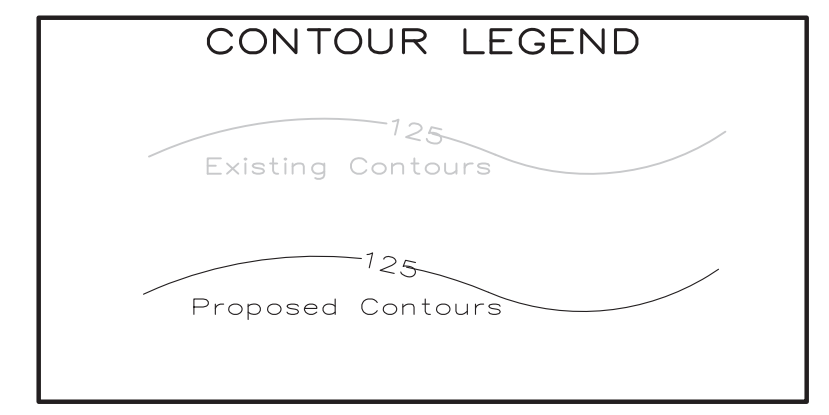
Washout of the concrete drum at the construction site is prohibited.

Amendments or revisions to the ES&PC Plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional.

Owner/Developer Delza Management, Inc. 2470 Windy Hill Road, SE Suite 256 Marietta, Georgia 30067 770-830-8856	24-hour Erosion Control Contact Gregory J. Dewberry P.O. Box 156 Bremen, Georgia 30110 24hr Emergency Phone 770-537-4087
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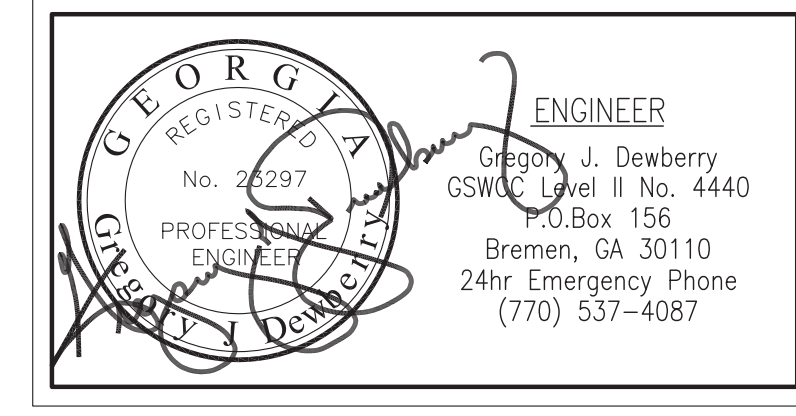
SITE AREA = 1.55 Acres

DISTURBED AREA = 1.50 Acres



LIMITS OF DISTURBANCE

State Waters NOT are located within 200 feet of the proposed site. Non-exempt activities shall not be conducted with the 25-foot undisturbed stream buffer as measured from the point of undisturbed vegetation without first acquiring the necessary variances and permits.



I certify under penalty of law that the Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision.

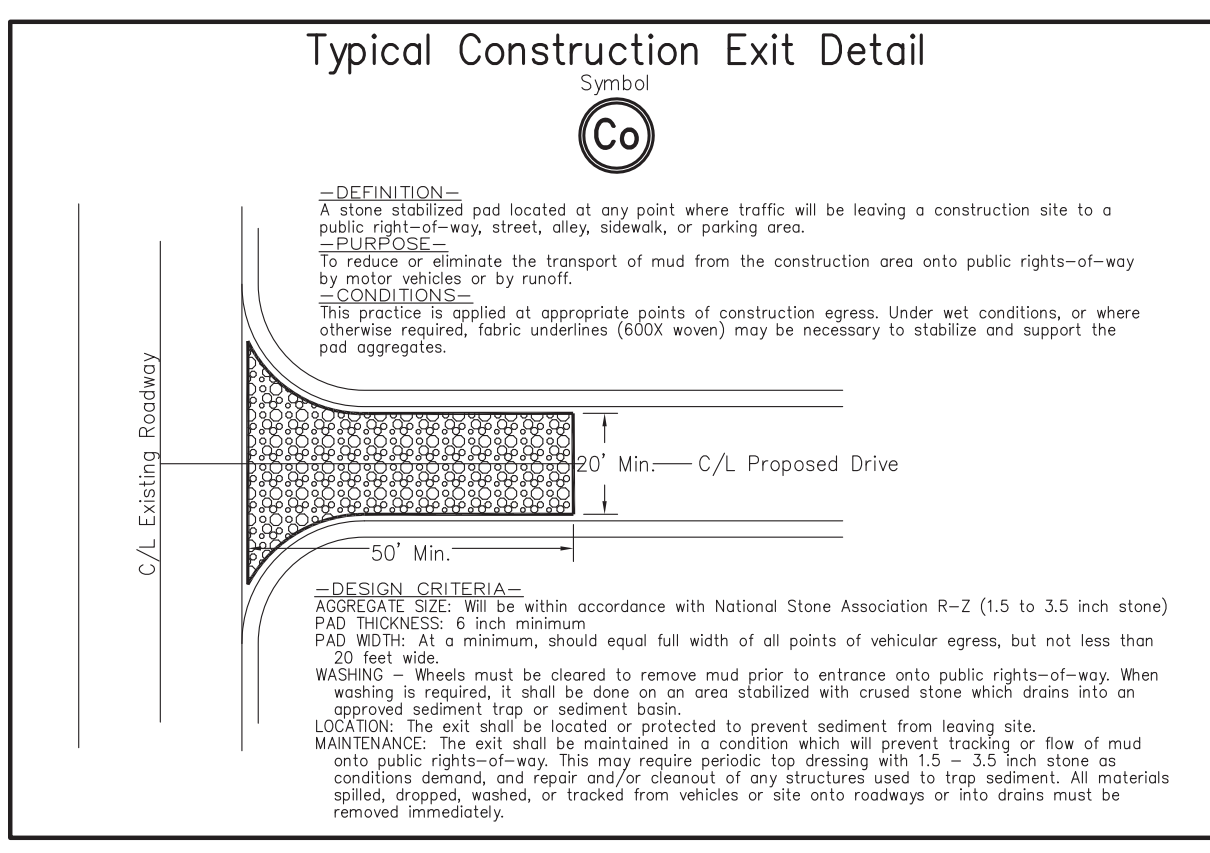
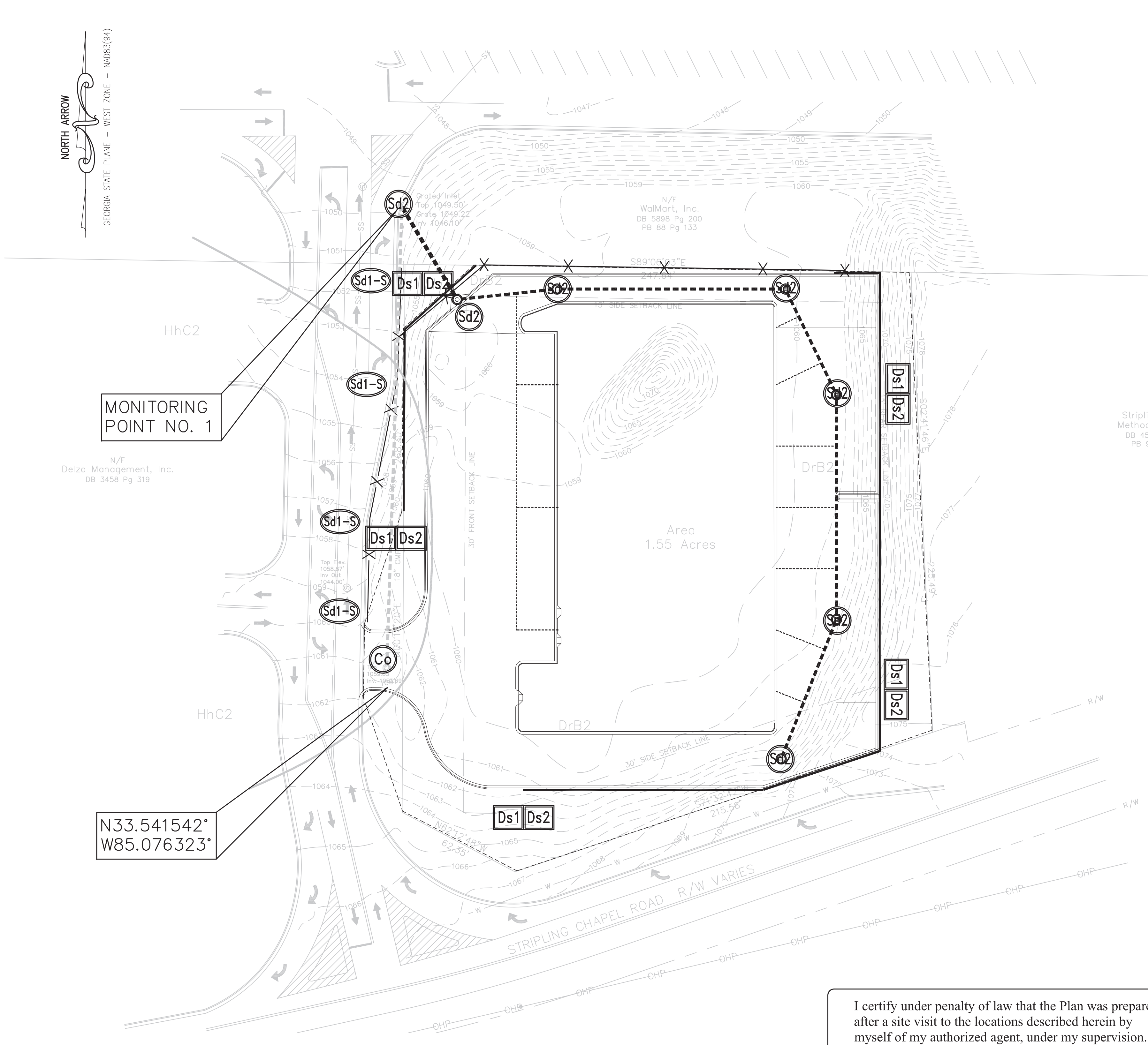
The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMP's within 7 days after installation.

I do hereby certify that I have visited this site prior to the design of the Erosion and Sediment Control Plan. Furthermore, I do hereby certify that this Plan provides for an appropriate and comprehensive system of Best Management Practices (BMP's) and sampling expected to meet permit requirements. I further certify that I, as the design professional, shall inspect the installation of the initial sediment storage requirements and perimeter control BMP's within seven (7) days after said measures have been completely installed. Amendments or revisions to the ES&PC Plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional.

Any disturbed area left exposed for a period of time greater than 14 days shall be stabilized with mulch or temporary seeding.

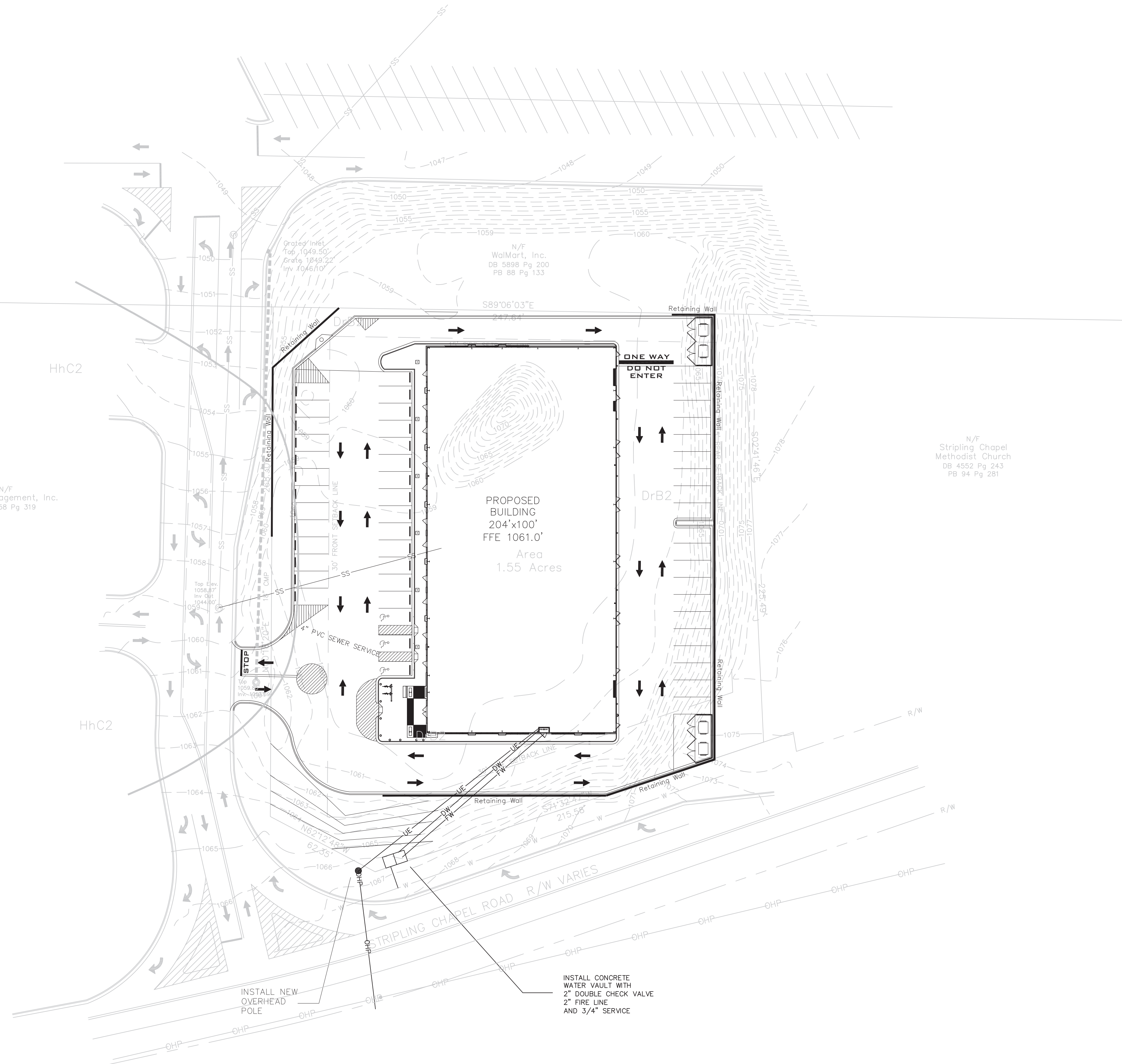
The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities.

Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.





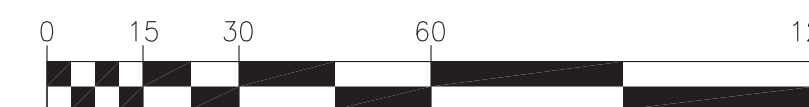
N/F
Delzo Management, Inc.
DB 3458 Pg 319



INSTALL CONCRETE
WATER VAULT WITH
2" DOUBLE CHECK VALVE
2" FIRE LINE
AND 3/4" SERVICE

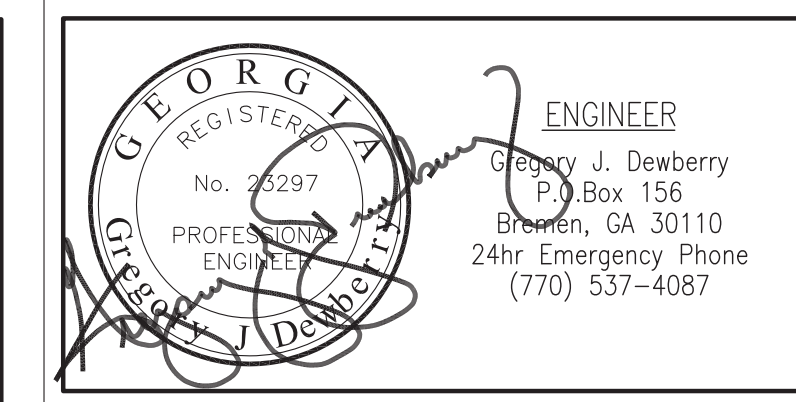
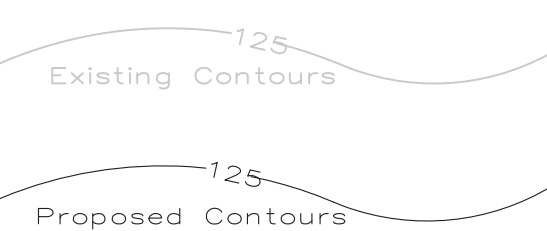
INSTALL NEW
OVERHEAD
POLE

GRAPHIC SCALE



(In Feet)
1 inch = 30 feet

CONTOUR LEGEND



ENGINEER
Gregory J. Dewberry
P.O. Box 156
Bremen, GA 30110
24hr. Emergency Phone
(770) 537-4087

PLAT ABBREVIATIONS

- IPF - Iron Pin Found
- IPS - Iron Pin Set
- FPS - Fence Post Set
- OTF - Open Top Pipe
- CTP - Crimp Top Pipe
- Conc. - Concrete
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- R/W - Right of Way
- C/L - Centerline
- F/L - Fenceline
- T/L - Transmission Line
- N/F - New or Formerly
- DB - Deed Book
- PB - Plat Book
- MF - Map File No.

10	SHEET				
NO	DATE	REVISIONS	DESCRIPTION	REVISED PER COMMENTS	
1	08/30/2022				
WAL-MART SHADOW CENTER			UTILITY PLAN		
450 STRIPLING CHAPEL ROAD			CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA		
DATE: AUGUST 1, 2022			SCALE: 1" = 30'		
PROJECT NO. 2022105					
CIVIL SOLUTIONS ENGINEERING & LAND SURVEYING			Gregory J. Dewberry, PE, LS P.O. Box 156 Bremen, Georgia 30110 (770) 537-4087		
SHEET			10		

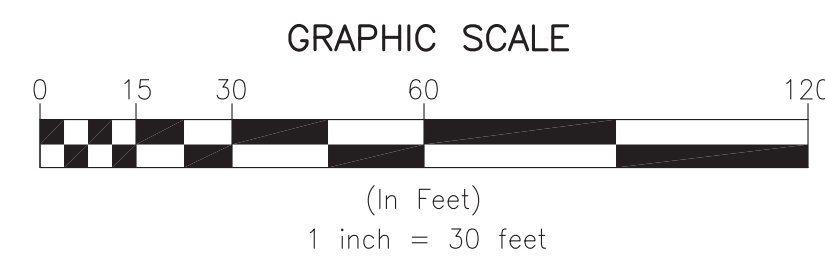
N/F
 Delzo Management, Inc.
 DB 3458 Pg 319

PROPOSED BUILDING
 204'x100'
 FFE 1061.0'
 Area
 1.55 Acres

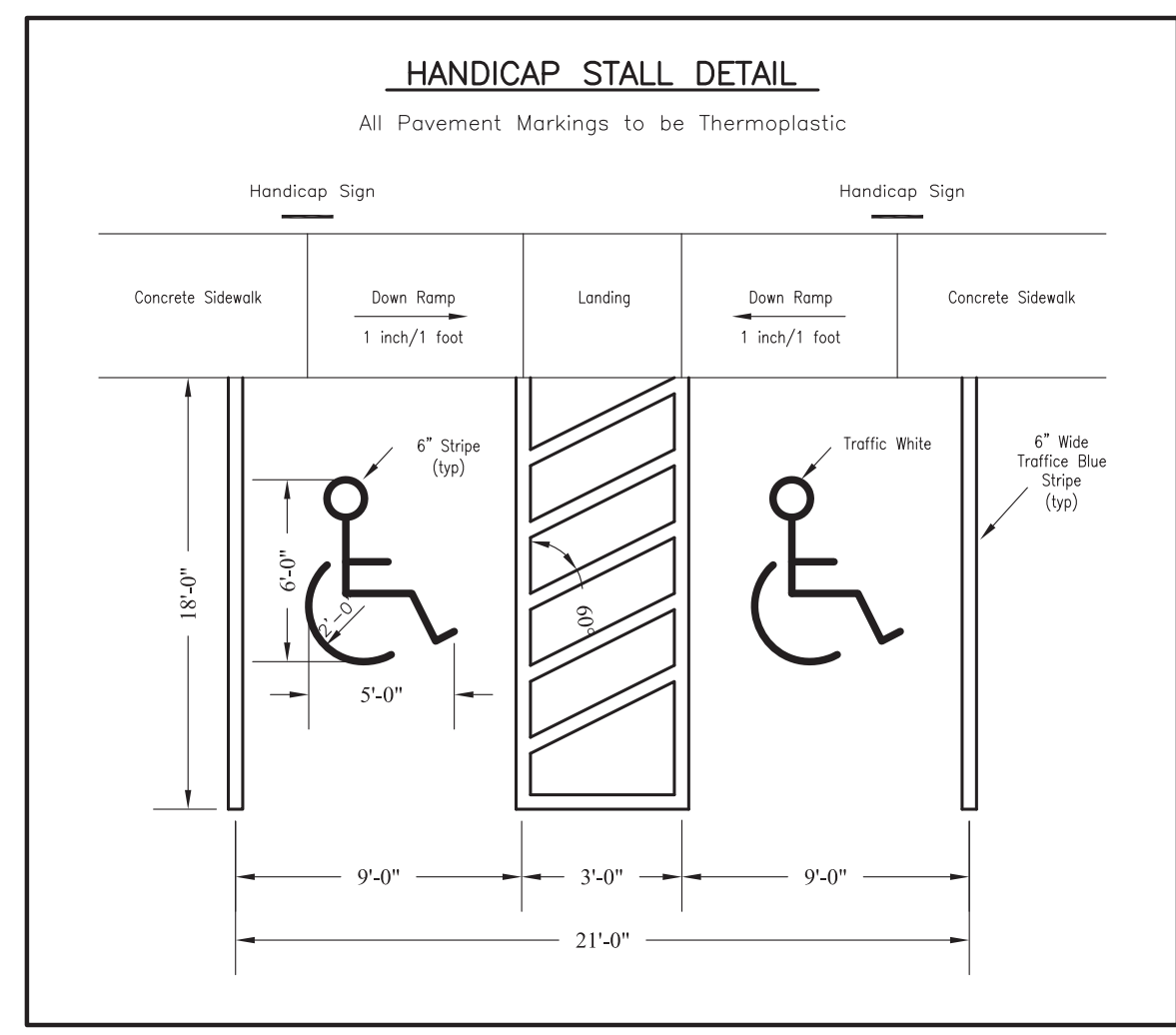
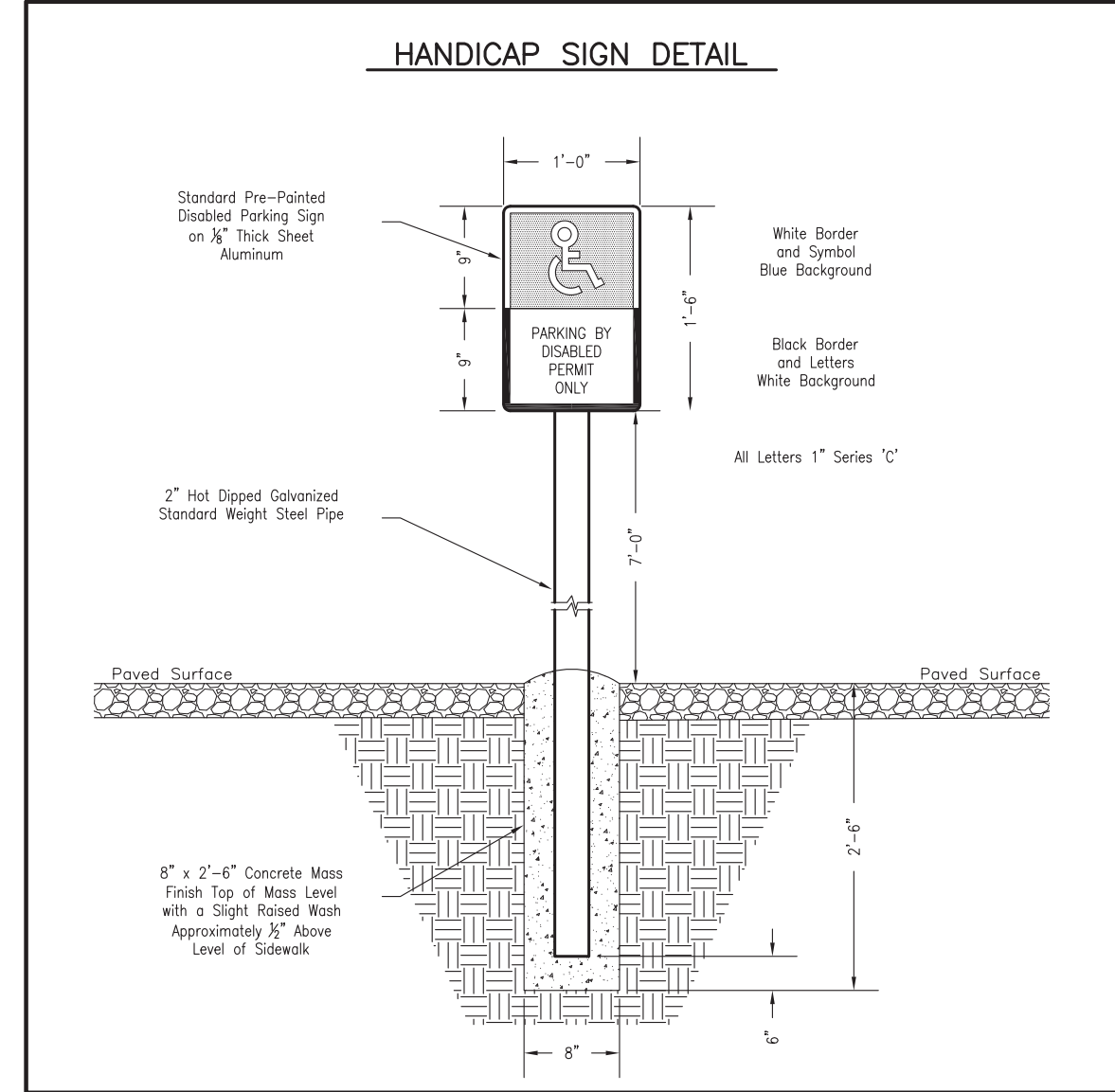
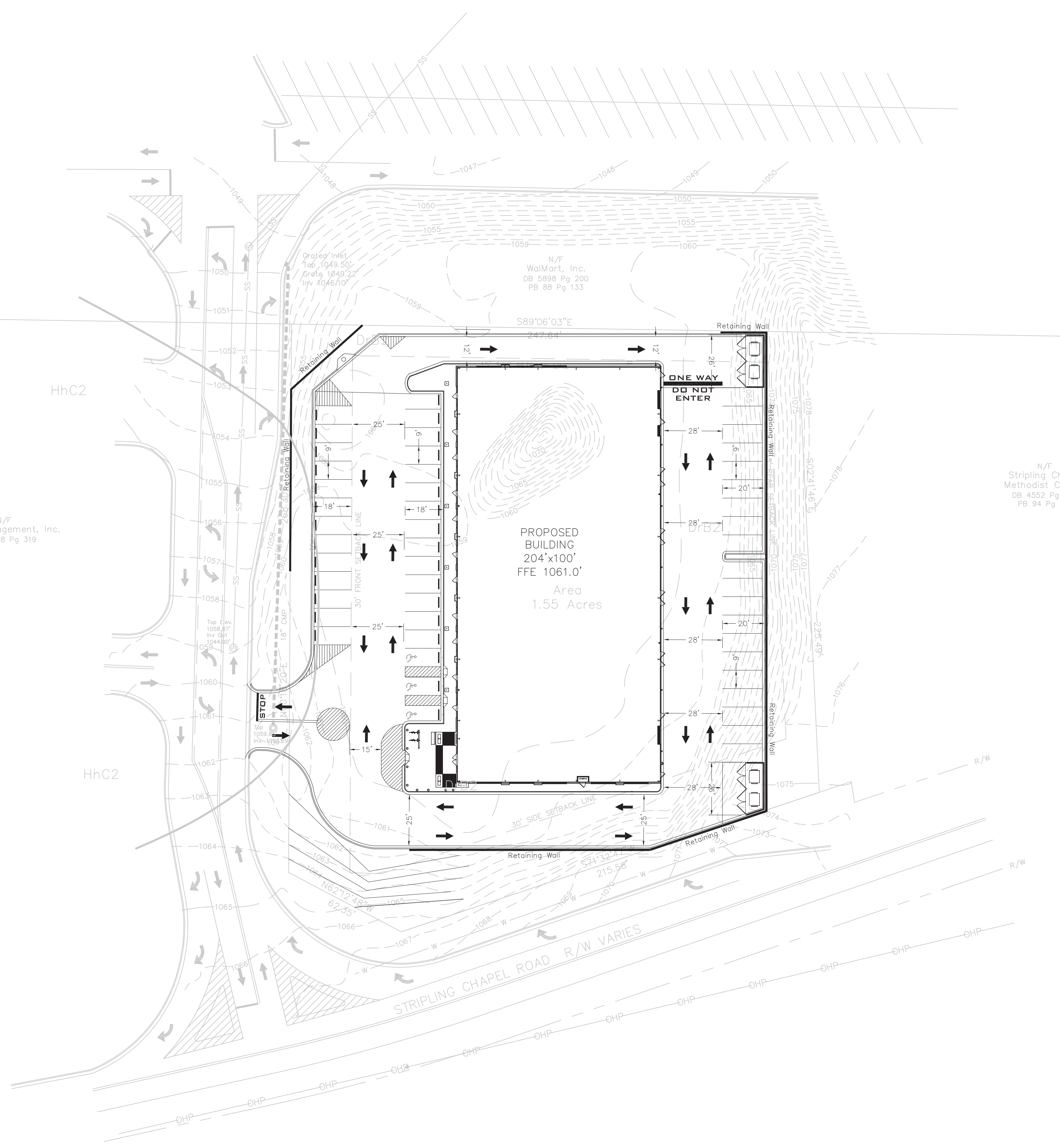
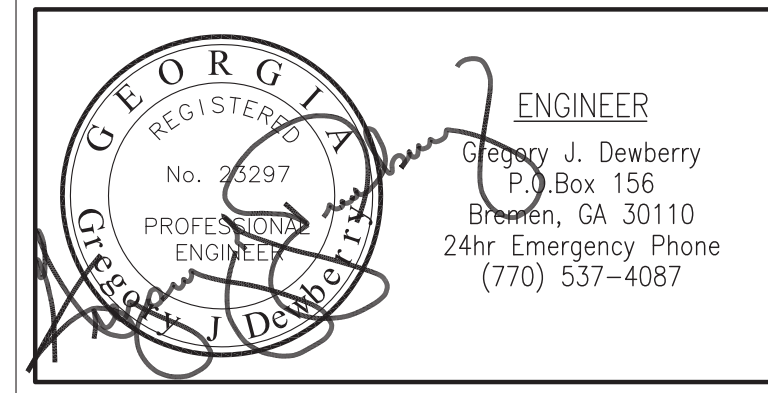
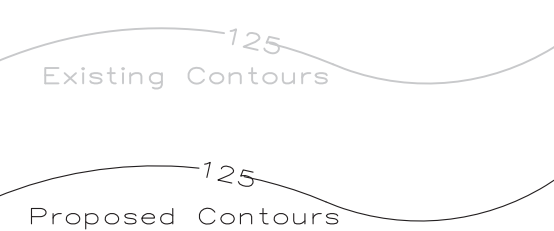
N/F
 Stripling Chapel
 Methodist Church
 DB 4552 Pg 243
 PB 94 Pg 281

PLAT ABBREVIATIONS

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CONTOUR LEGEND

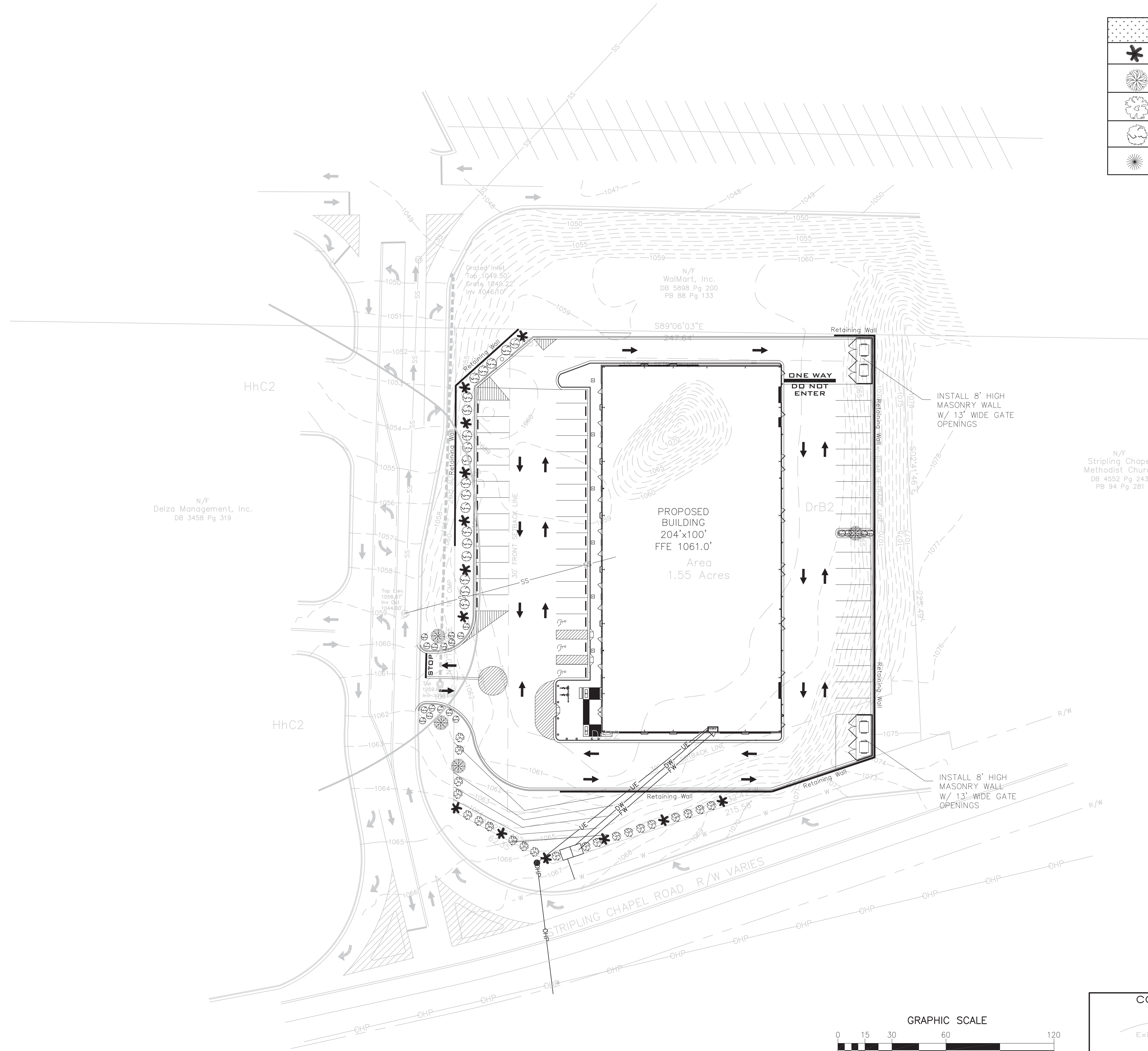


NO	DATE	DESCRIPTION	REVISED PER COMMENTS
1	08/30/2022		

PROJECT NO. 2022105
WAL-MART SHADOW CENTER
PARKING AND STRIPING PLAN
 450 STRIPLING CHAPEL ROAD
 CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

CIVIL SOLUTIONS
 ENGINEERING & LAND SURVEYING
 Gregory J. Dewberry, PE, LS
 P.O. Box 156
 Bremen, Georgia 30110
 (770) 537-4087

GROUND COVERING	
	PINE STRAW OR BARK MULCH
	VIRGINIA PINE - <i>Pinus virginiana</i> 2.5 Inch Breast Height Diameter Planted Every 35 Linear Feet
	SOUTHERN WAX MYRTLE - <i>Myrica cerifera</i> 1.5 Inch Breast Height Diameter Planted Every 35 Linear Feet
	CAROLINA RHODODENTRON - <i>Rhododendron carolinianum</i> 5 Gallon Planted 3 Per 35 Linear Feet
	JAPANESE HOLLY - <i>Ilex crenata radicans</i> 3 Gallon Planted 10 Per 35 Linear Feet
	WARTY BARBERRY - <i>Berberis verruculosa</i> 3 Gallon Planted 10 Per 35 Linear Feet



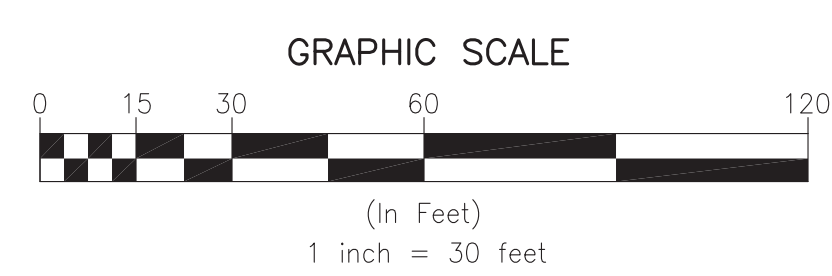
N/F
 Delzo Management, Inc.
 DB 3458 Pg 319

N/F
 WalMart, Inc.
 DB 5898 Pg 200
 PB 88 Pg 133



N/F
 Stripling Chapel
 Methodist Church
 DB 4552 Pg 243
 PB 94 Pg 281

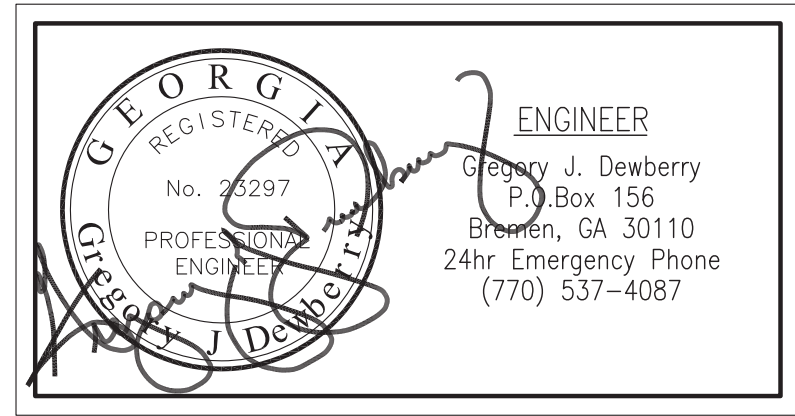
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CONTOUR LEGEND

	Existing Contours
	Proposed Contours



REVISIONS

NO	DATE	DESCRIPTION	REVISED PER COMMENTS
1	08/30/2022		

CIVIL SOLUTIONS
 ENGINEERING & LAND SURVEYING

WAL-MART SHADOW CENTER

LANDSCAPING LAN
 450 STRIPLING CHAPEL ROAD
 CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

DATE: AUGUST 1, 2022
 SCALE: 1" = 30'
 PROJECT NO. 2022105

Gregory J. Dewberry, PE, LS
 P.O. Box 156
 Bremen, Georgia 30110
 (770) 537-4087

NO.	DATE	DESCRIPTION	REVISED PER COMMENTS
1	08/30/2022		

PROJECT NO. 2022105
 WAL-MART SHADOW CENTER
 PHASE III EROSION CONTROL PLAN
 450 STRIPLING CHAPEL ROAD
 CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

DATE: AUGUST 1, 2022
 CIVIL SOLUTIONS
 ENGINEERING & LAND SURVEYING
 Gregory J. Dewberry, P.E., L.S.
 P.O. Box 156
 Bremen, Georgia 30110
 (770) 537-4087

EROSION CONTROL SYMBOLS

Bu	Buffer Zone	A strip of undisturbed, original land or vegetation surrounding either the disturbed site or bordering streams.
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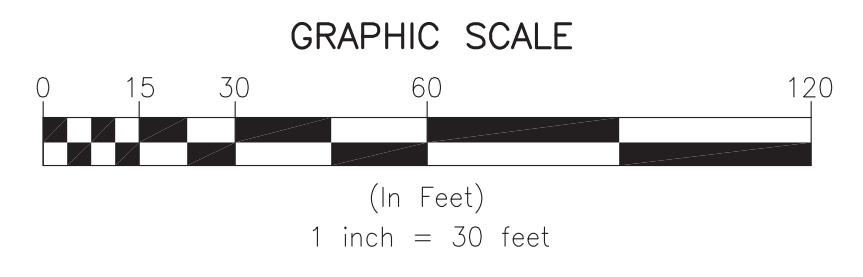
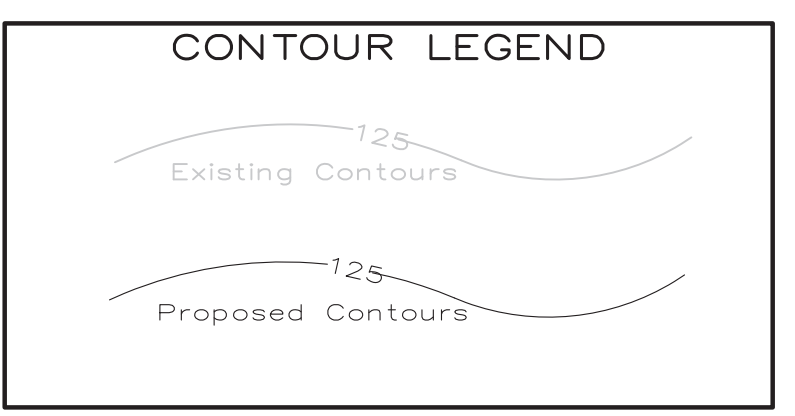
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Amendments or revisions to the ES&PC Plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional.

Owner/Developer Delza Management, Inc. 2470 Windy Hill Road, SE Suite 256 Marietta, Georgia 30067 770-630-8856	24-hour Erosion Control Contact Gregory J. Dewberry P.O. Box 156 Bremen, Georgia 30110 24hr Emergency Phone 770-537-4087
--	--

SITE AREA = 1.55 Acres
 DISTURBED AREA = 1.50 Acres



LIMITS OF DISTURBANCE

State Waters NOT are located within 200 feet of the proposed site. Non-exempt activities shall not be conducted with the 25-foot undisturbed stream buffer as measured from the point of wooded vegetation without first acquiring the necessary variances and permits.

I certify under penalty of law that the Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision.

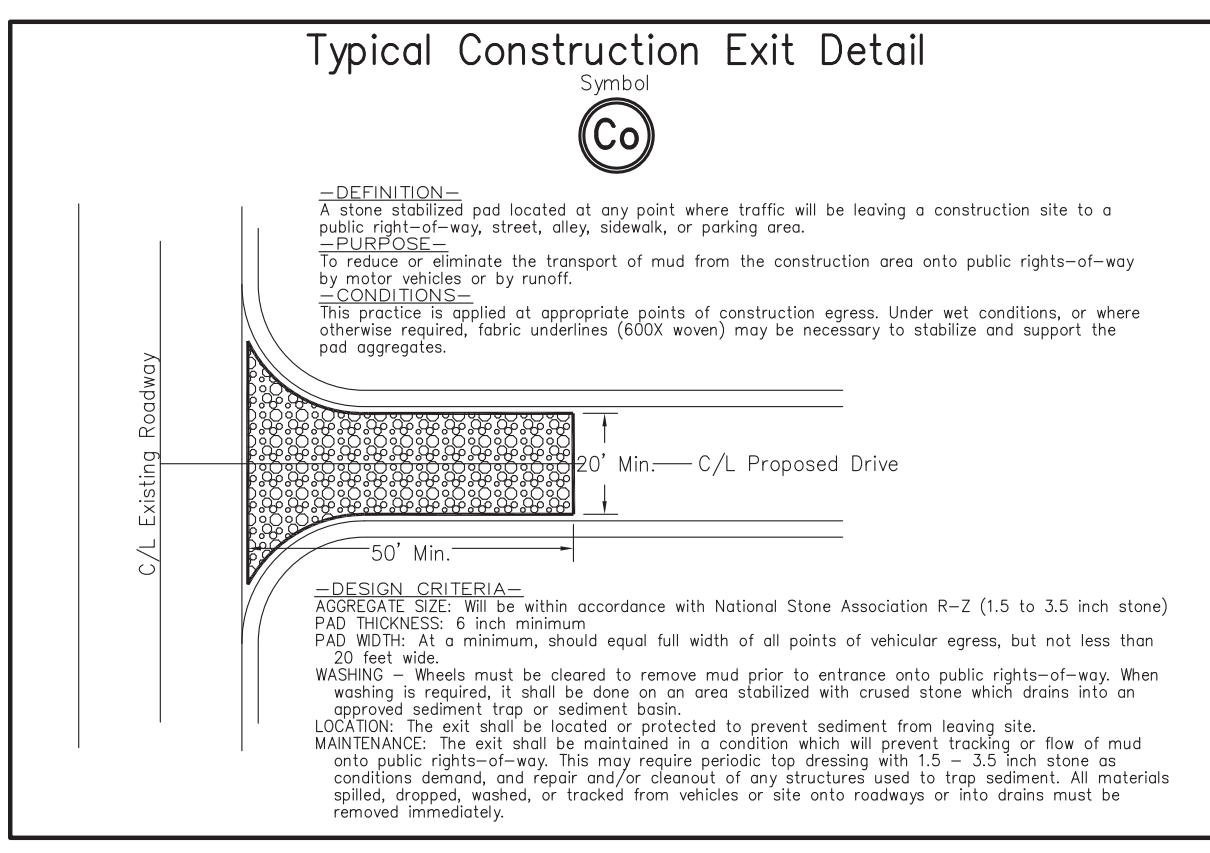
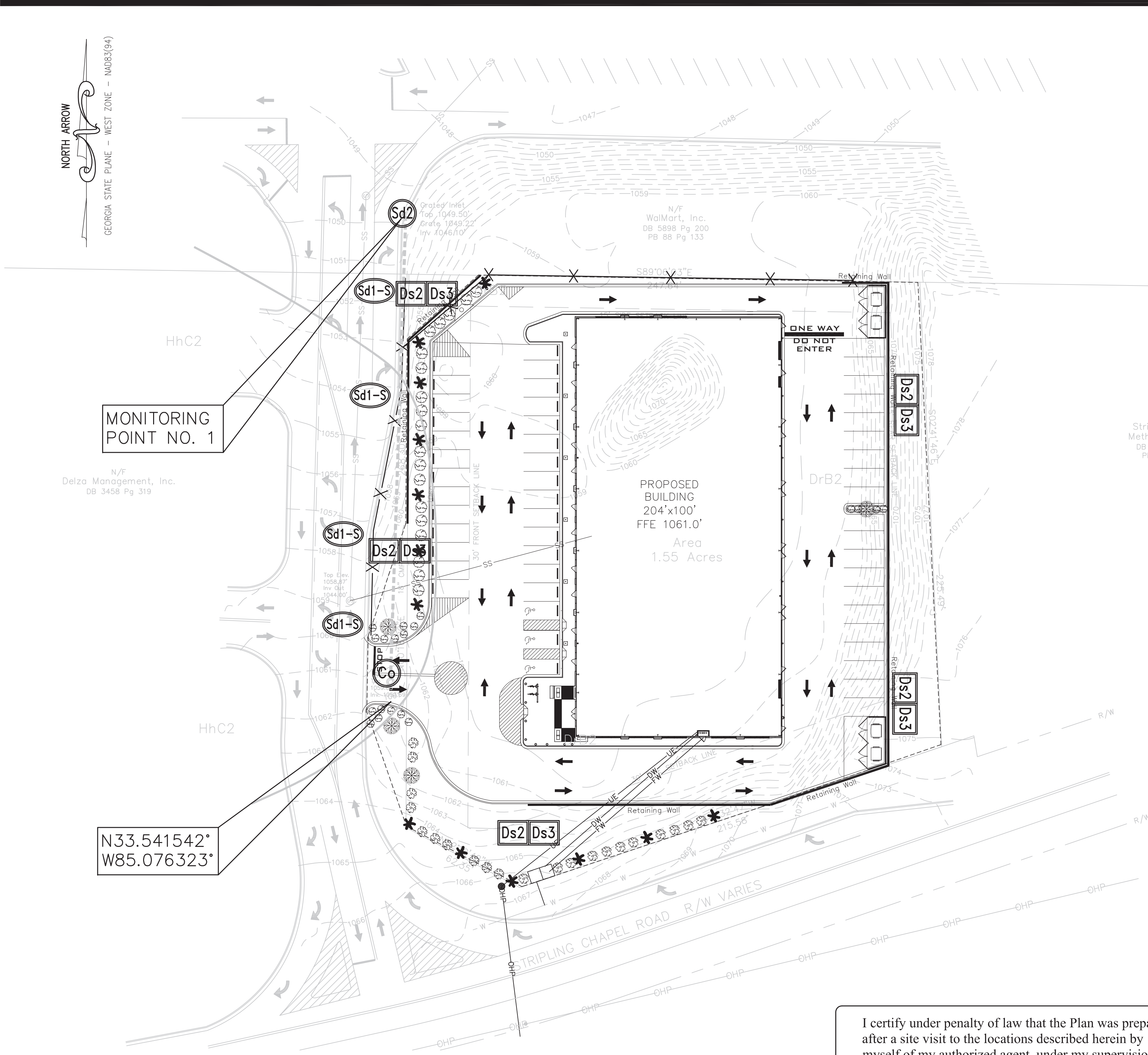
The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMP's within 7 days after installation.

I do hereby certify that I have visited this site prior to the design of the Erosion and Sediment Control Plan. Furthermore, I do hereby certify that this Plan provides for an appropriate and comprehensive system of Best Management Practices (BMP's) and sampling expected to meet permit requirements. I further certify that I, as the design professional, shall inspect the installation of the initial sediment storage requirements and perimeter control BMP's within seven (7) days after said measures have been completely installed. Amendments or revisions to the ES&PC Plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional.

Any disturbed area left exposed for a period of time greater than 14 days shall be stabilized with mulch or temporary seeding.

The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities.

Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.



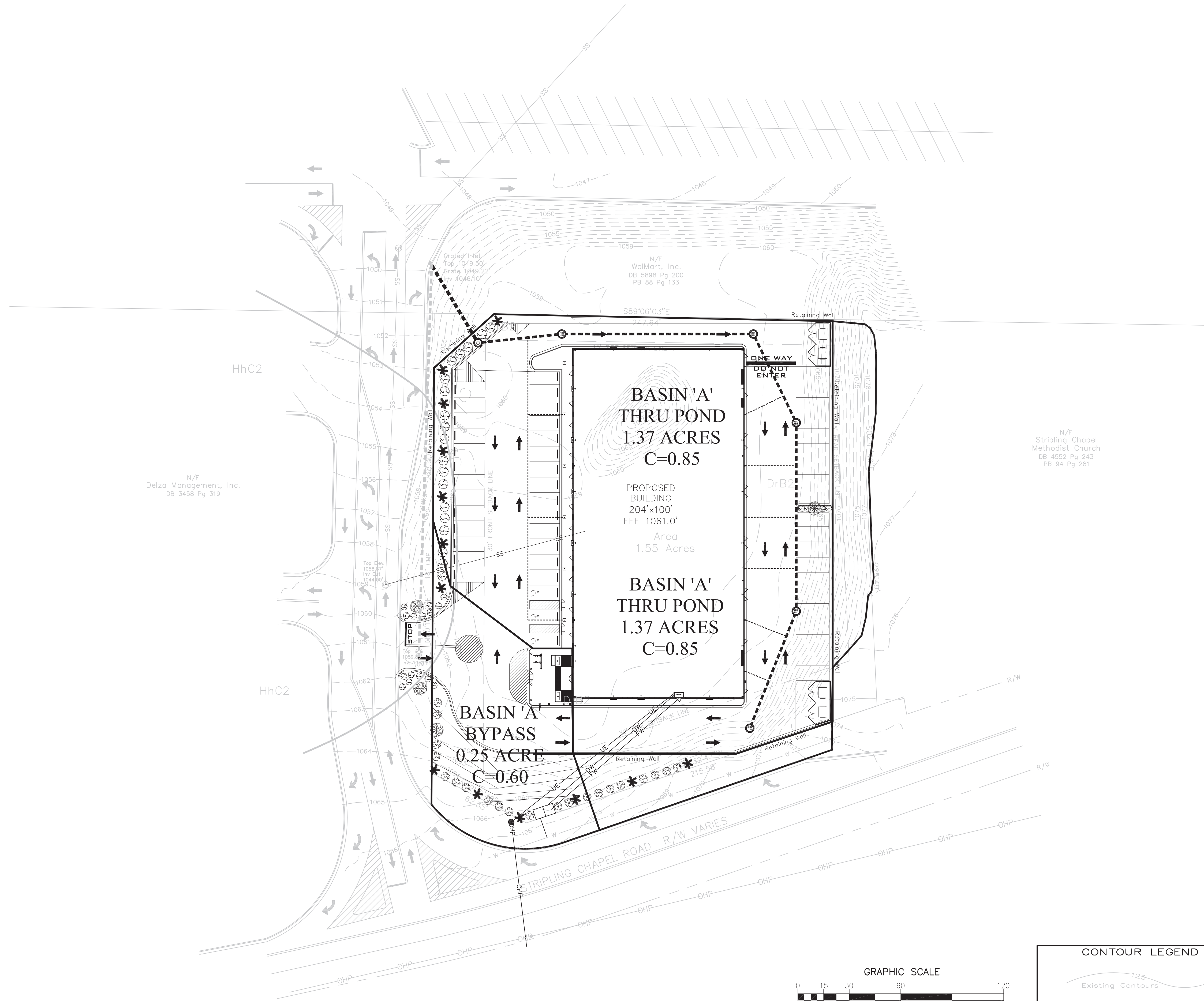
NORTH ARROW
 GEORGIA STATE PLANE - WEST ZONE - NAD83(11)

N/F
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 DB 3458 Pg 319

N/F
 Stripling Chapel
 Methodist Church
 DB 4552 Pg 243
 PB 94 Pg 281

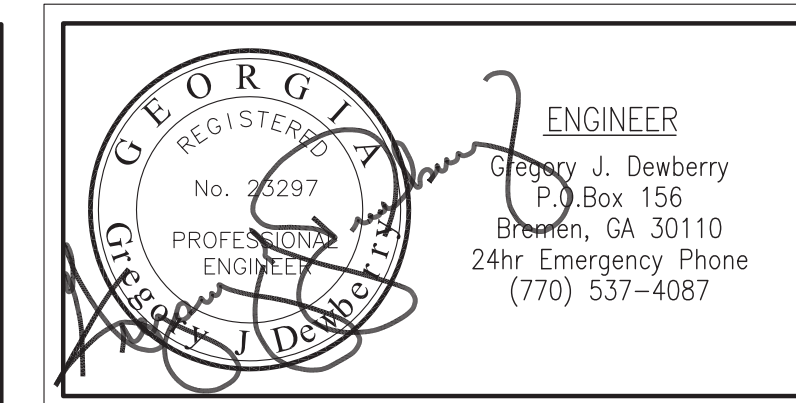
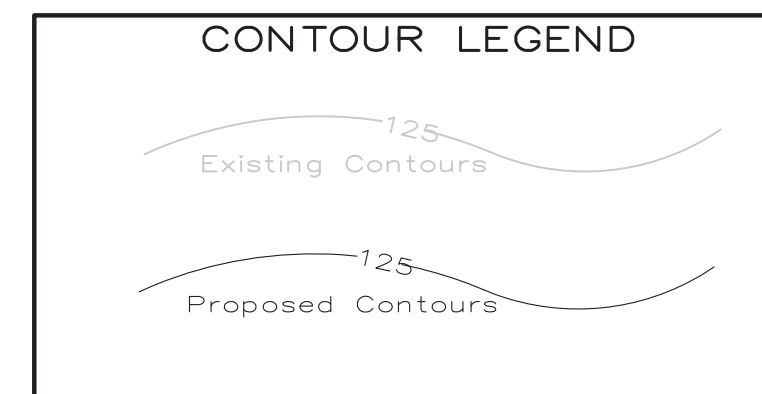
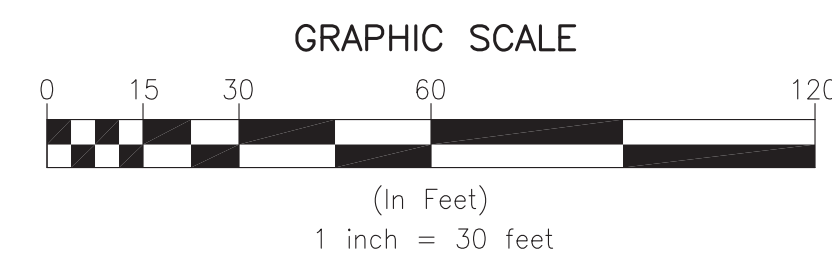
N/F
 Walmart, Inc.
 DB 5898 Pg 200
 PB 88 Pg 133

N33.541542°
 W85.076323°



PLAT ABBREVIATIONS

- IPF - Iron Pin Found
- IPS - Iron Pin Set
- FPS - Fence Post Set
- OTP - Open Top Pipe
- CTP - Crimp Top Pipe
- Conc. - Concrete
- Alumn. - Aluminum
- P/L - Property Line
- R/W - Right of Way
- C/L - Centerline
- F/L - Fenceline
- T/L - Transmission Line
- N/F - New or Formerly
- DB - Deed Book
- PB - Plat Book
- MF - Map File No.



14	SHEET		
NO. 1	DATE 08/30/2022	REVISIONS	DESCRIPTION REVISED PER COMMENTS
WAL-MART SHADOW CENTER		STORMWATER BASIN MAP	
450 STRIPLING CHAPEL ROAD		CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA	
DATE: AUGUST 1, 2022		SCALE: 1" = 30'	
PROJECT NO. 2022105			
CIVIL SOLUTIONS ENGINEERING & LAND SURVEYING	Gregory J. Dewberry, PE, LS P.O. Box 156 Bremen, Georgia 30110 (770) 537-4087		
SHEET		14	

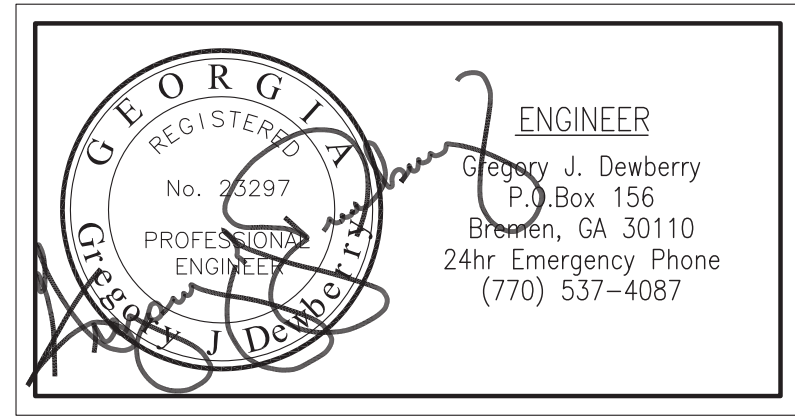
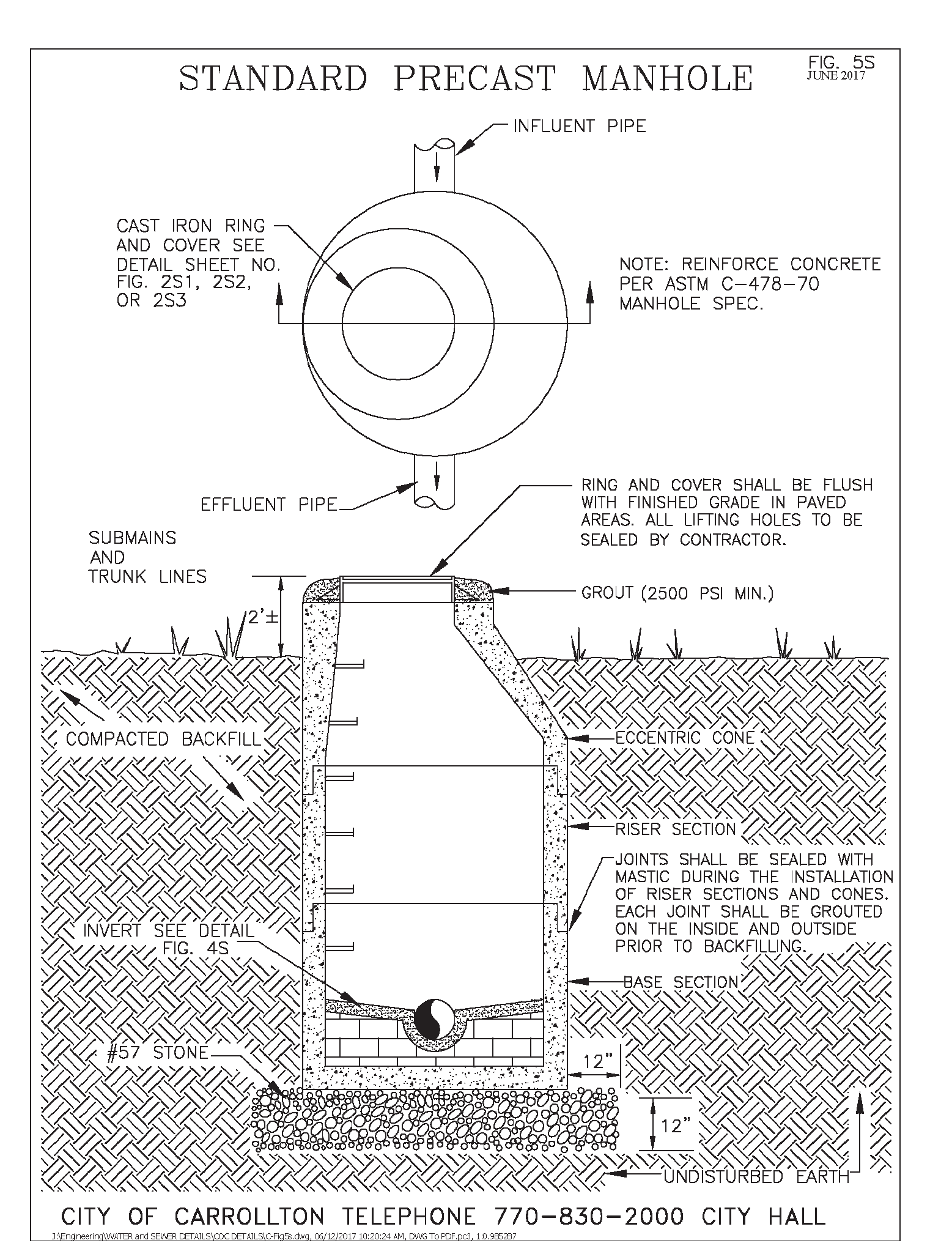
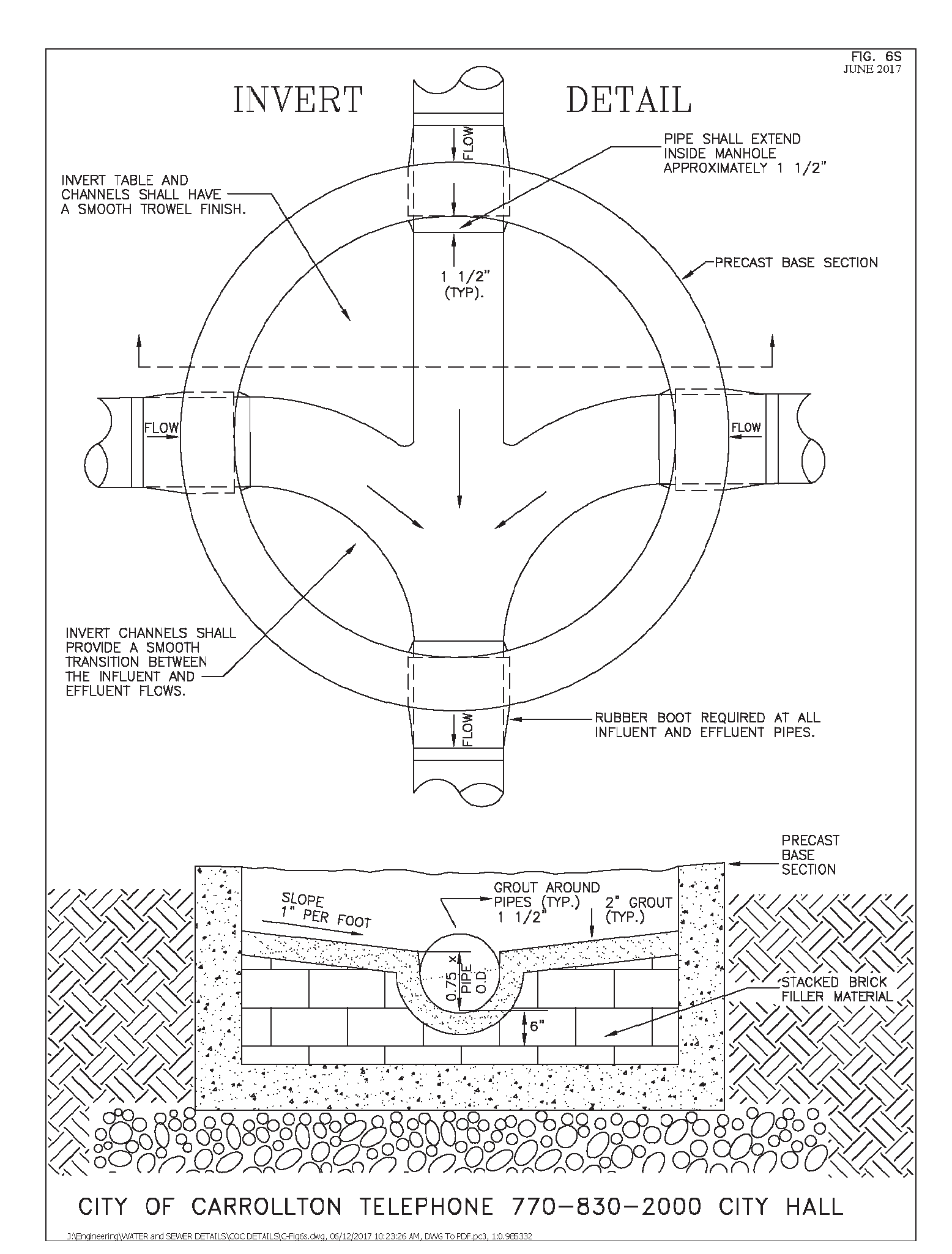
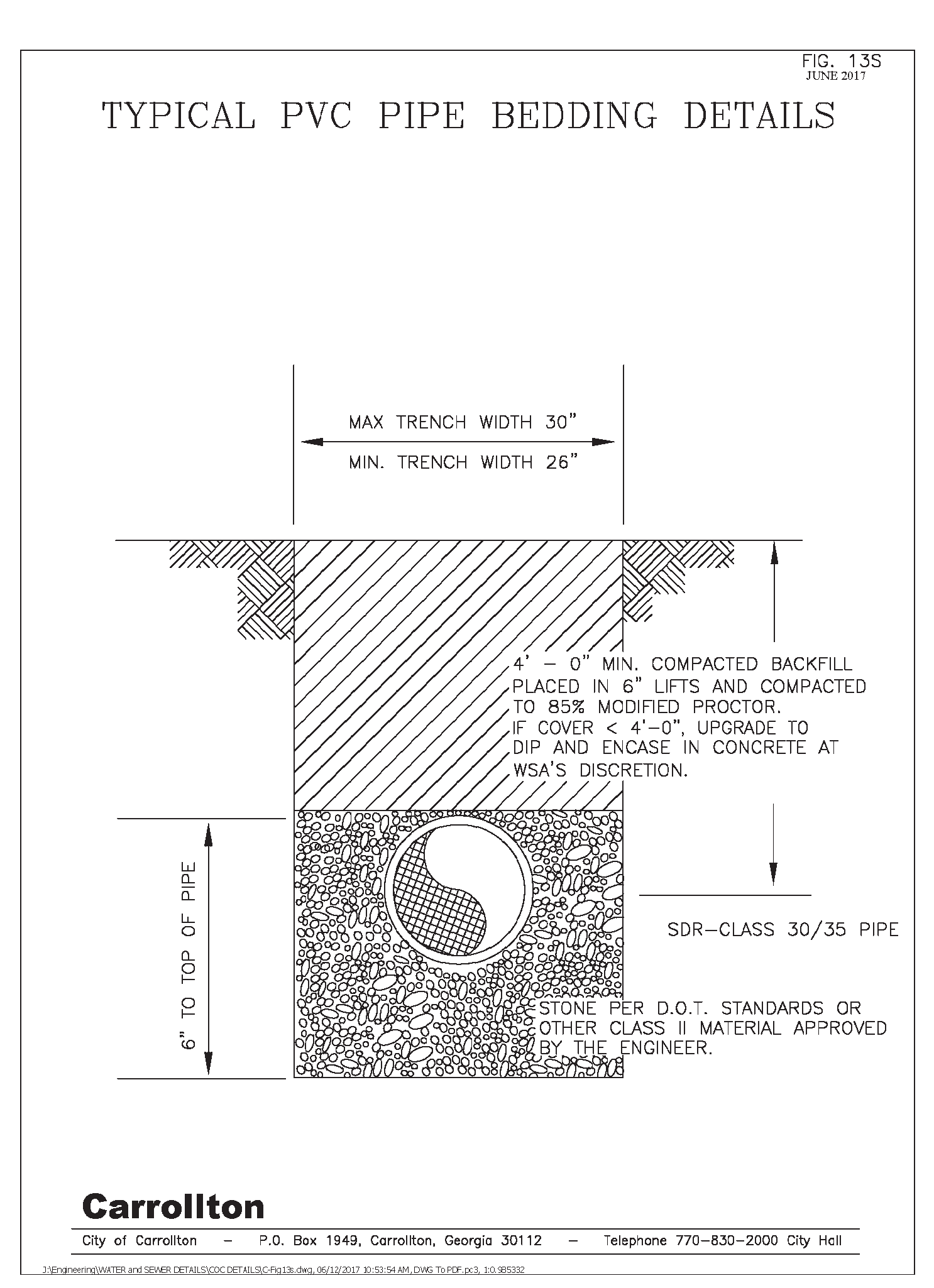
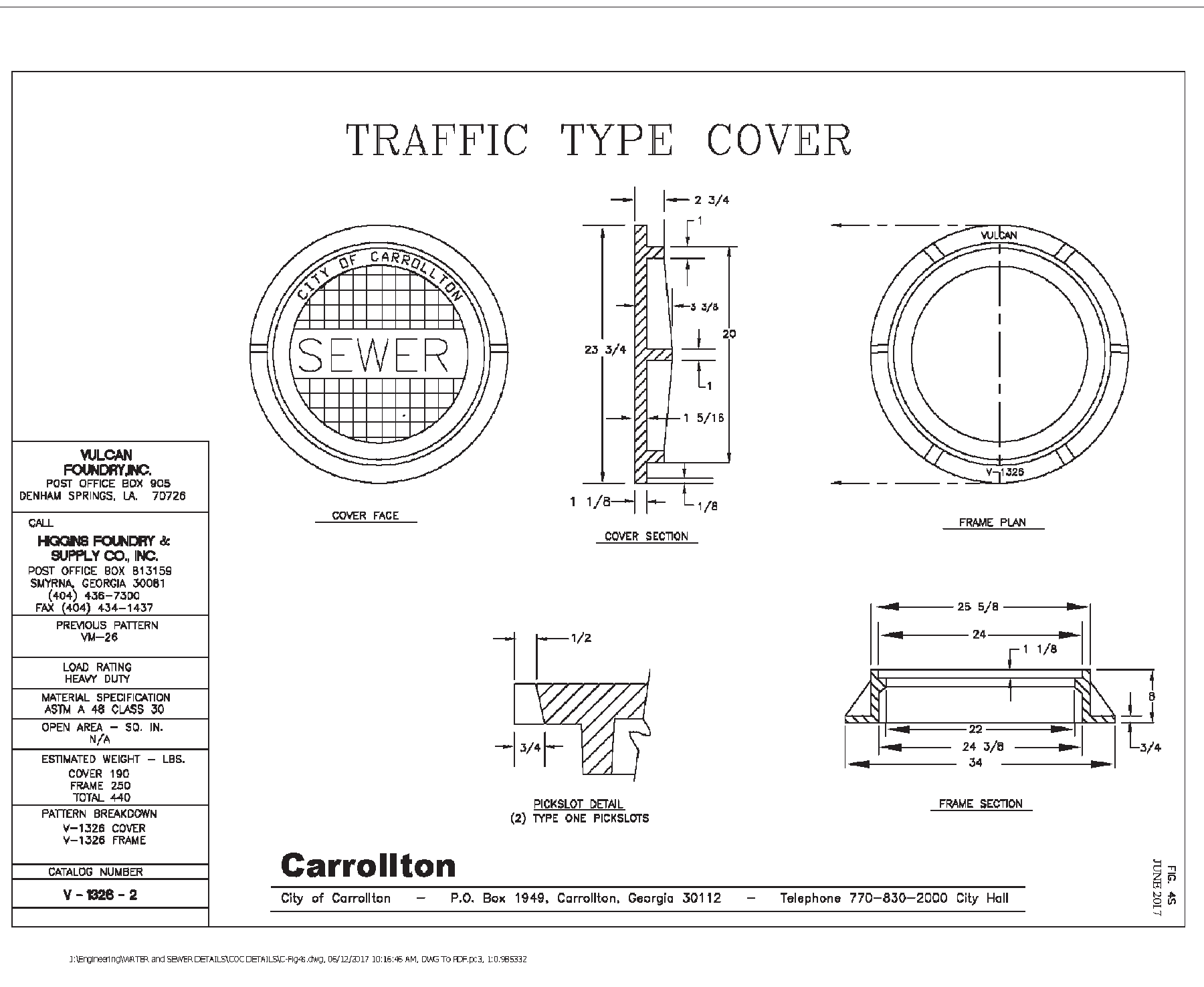
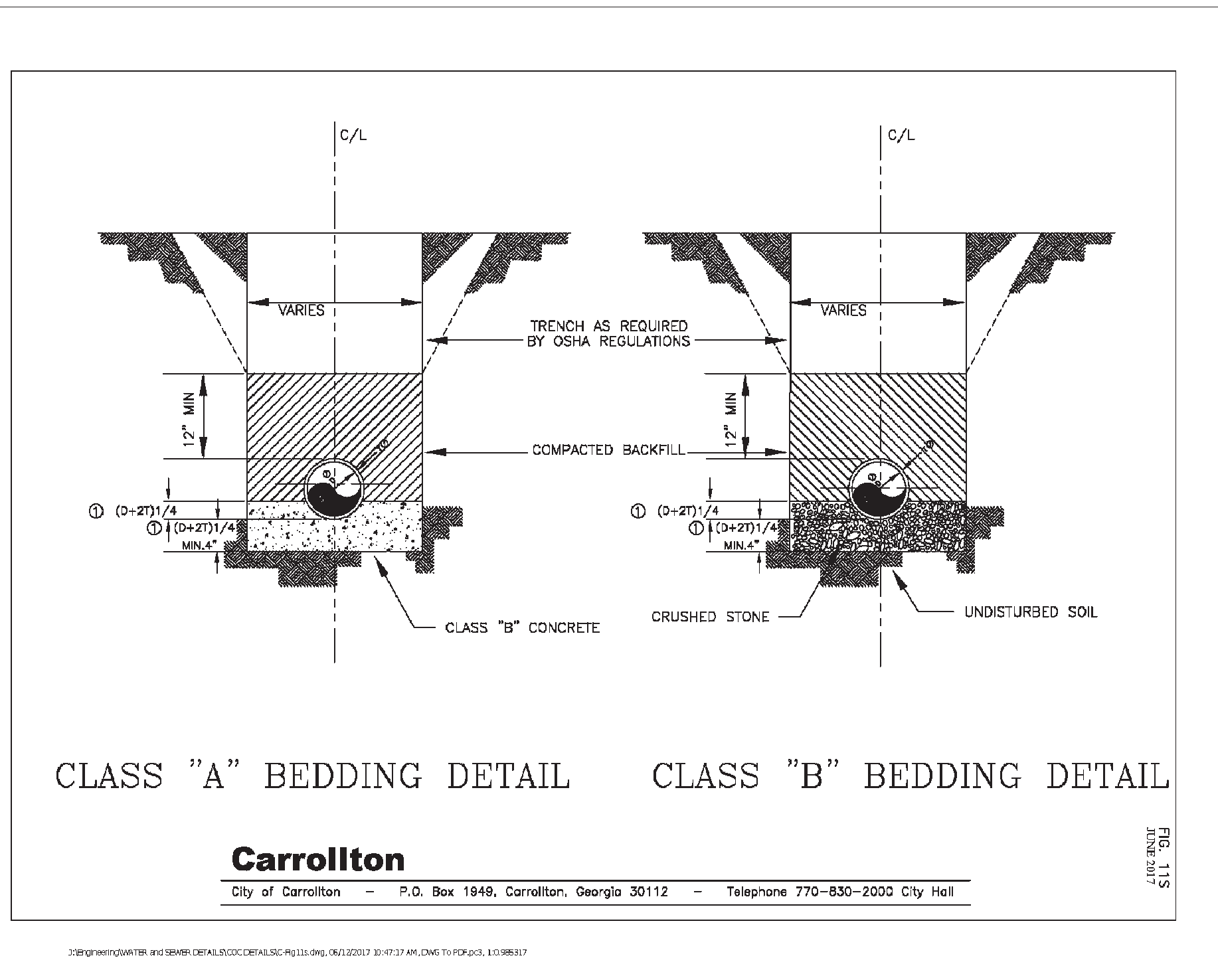
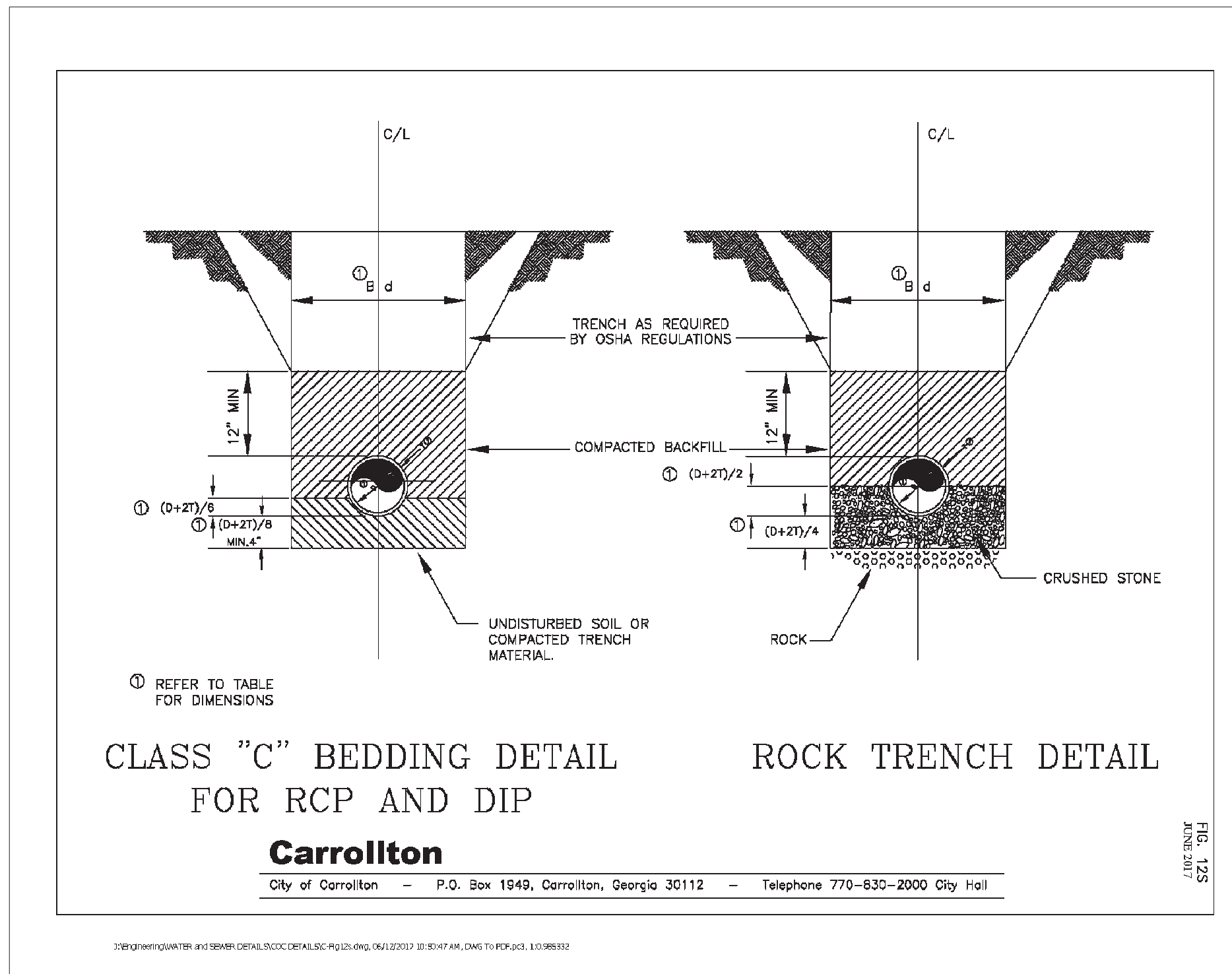
NO.	DATE	DESCRIPTION	REVISED PER COMMENTS
1	08/30/2022		

PROJECT NO. 2022105

WAL-MART SHADOW CENTER
SANITARY SEWER DETAILS
450 STRIPLING CHAPEL ROAD
CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

DATE: AUGUST 1, 2022 SCALE: 1" = 30"

CIVIL SOLUTIONS
ENGINEERING & LAND SURVEYING
Gregory J. Dewberry, PE, LS
P.O. Box 156
Bremen, Georgia 30110
(770) 537-4087



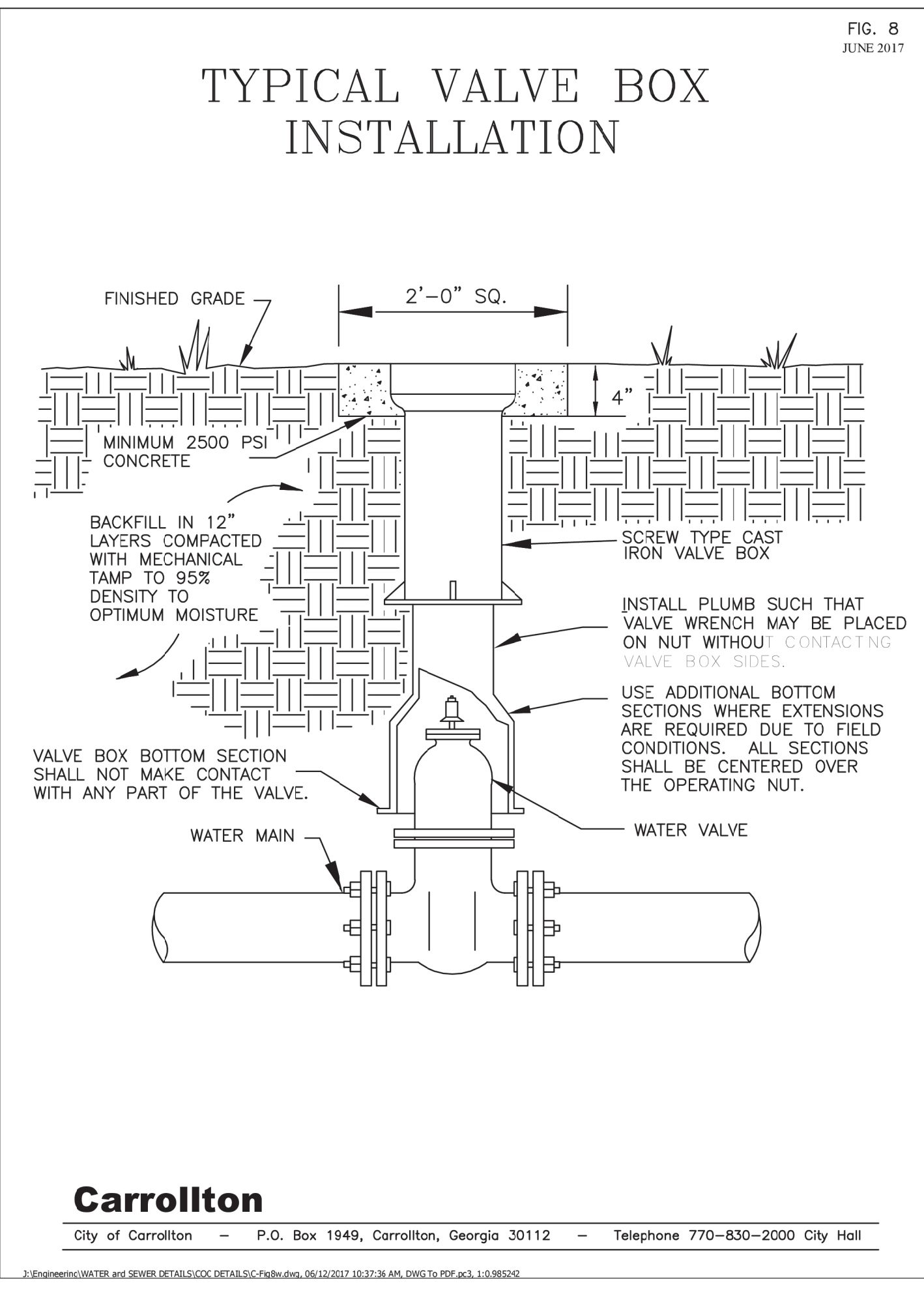
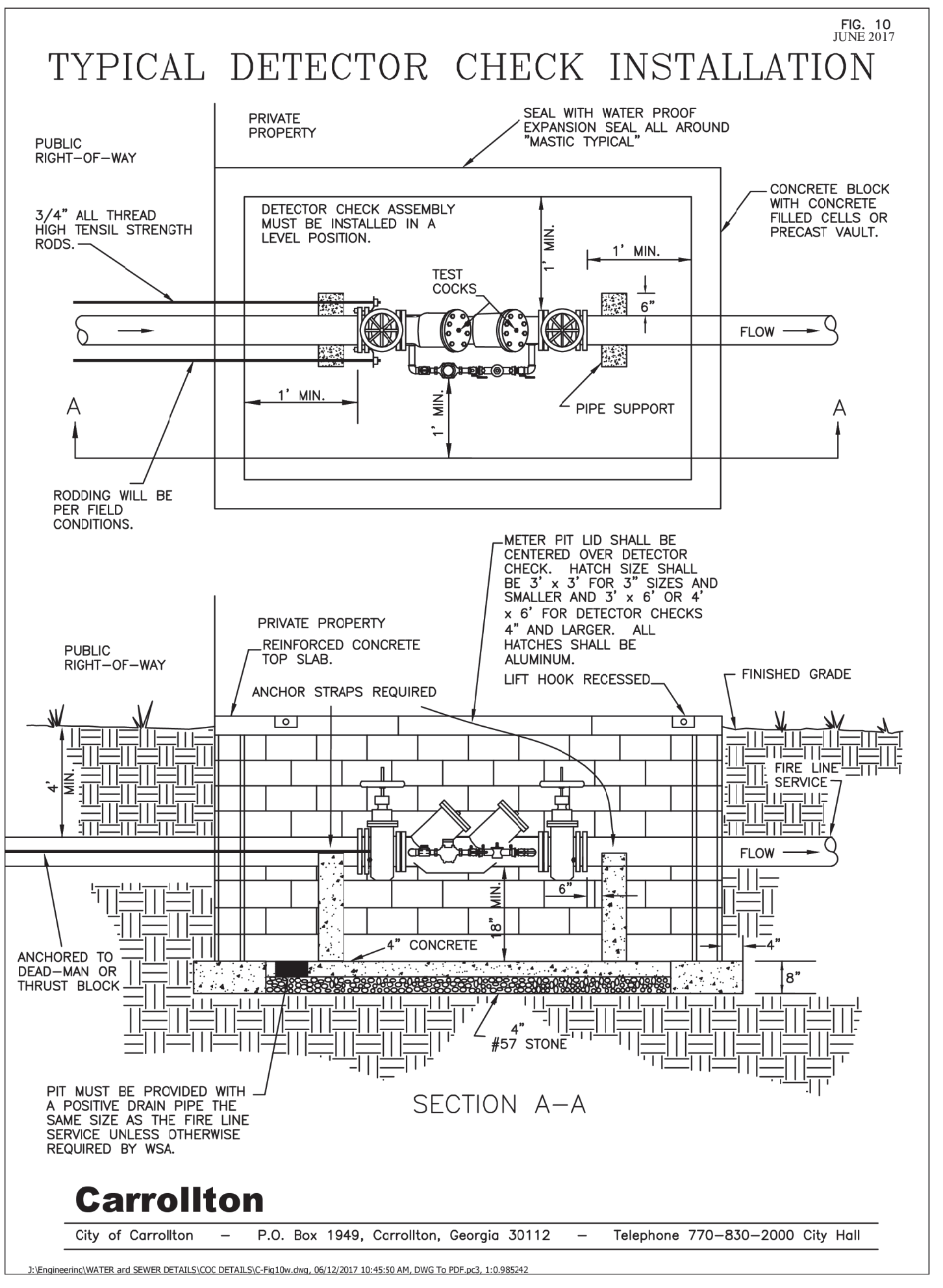
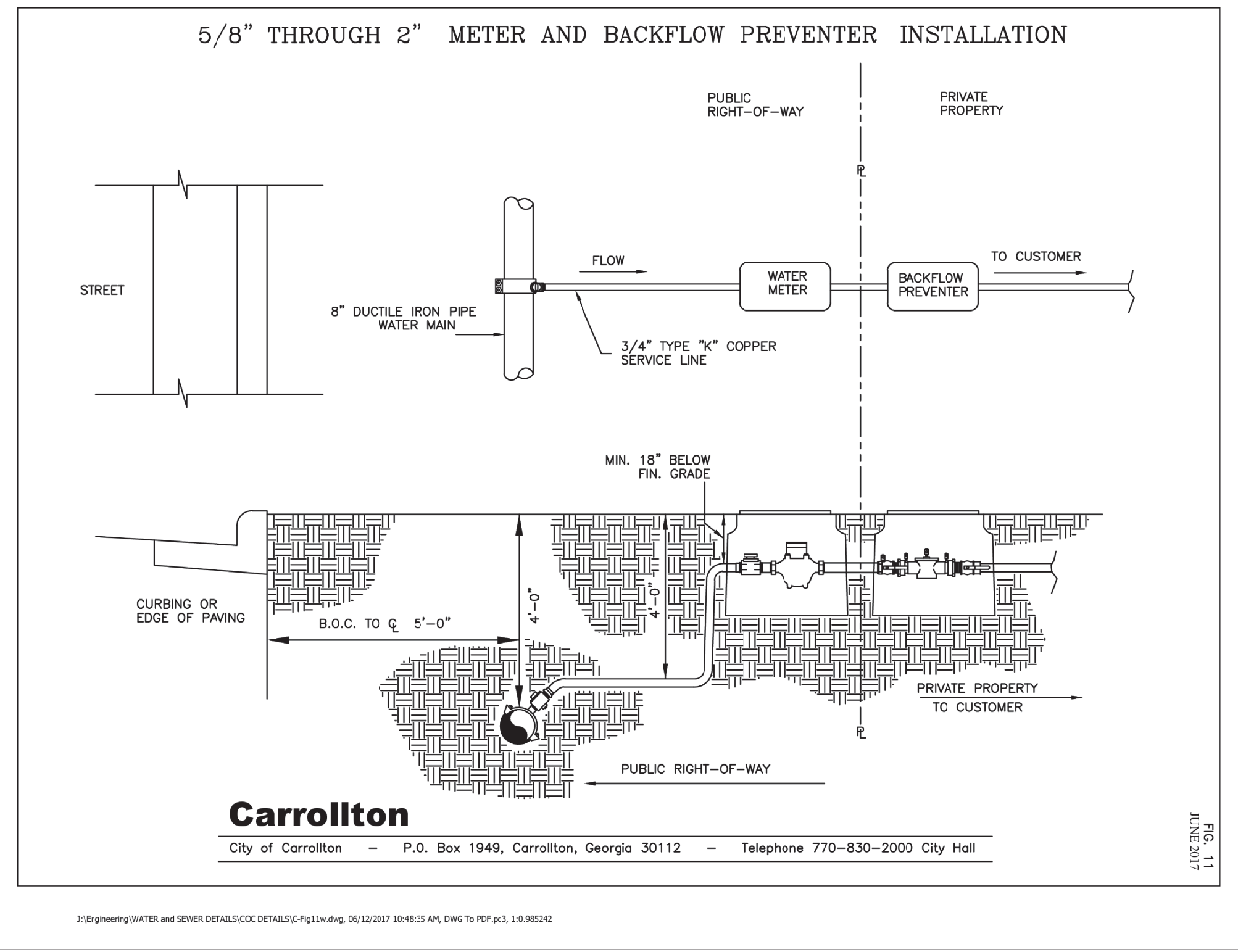
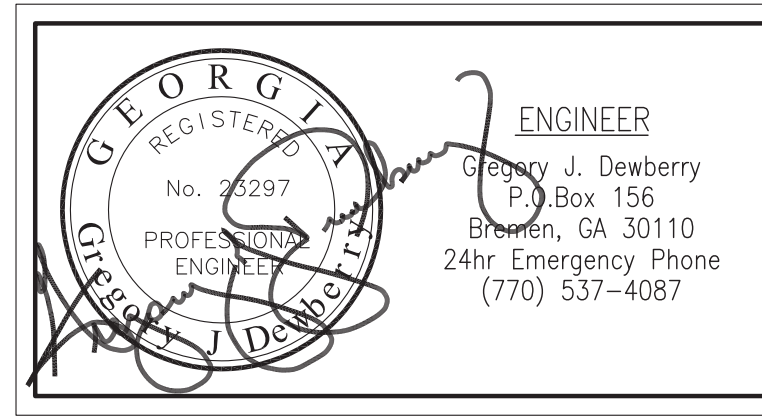
NO	DATE	DESCRIPTION
1	08/30/2022	REVISED PER COMMENTS

PROJECT NO. 2022105

WAL-MART SHADOW CENTER
WATER DISTRIBUTION DETAILS
 450 STRIPLING CHAPEL ROAD
 CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

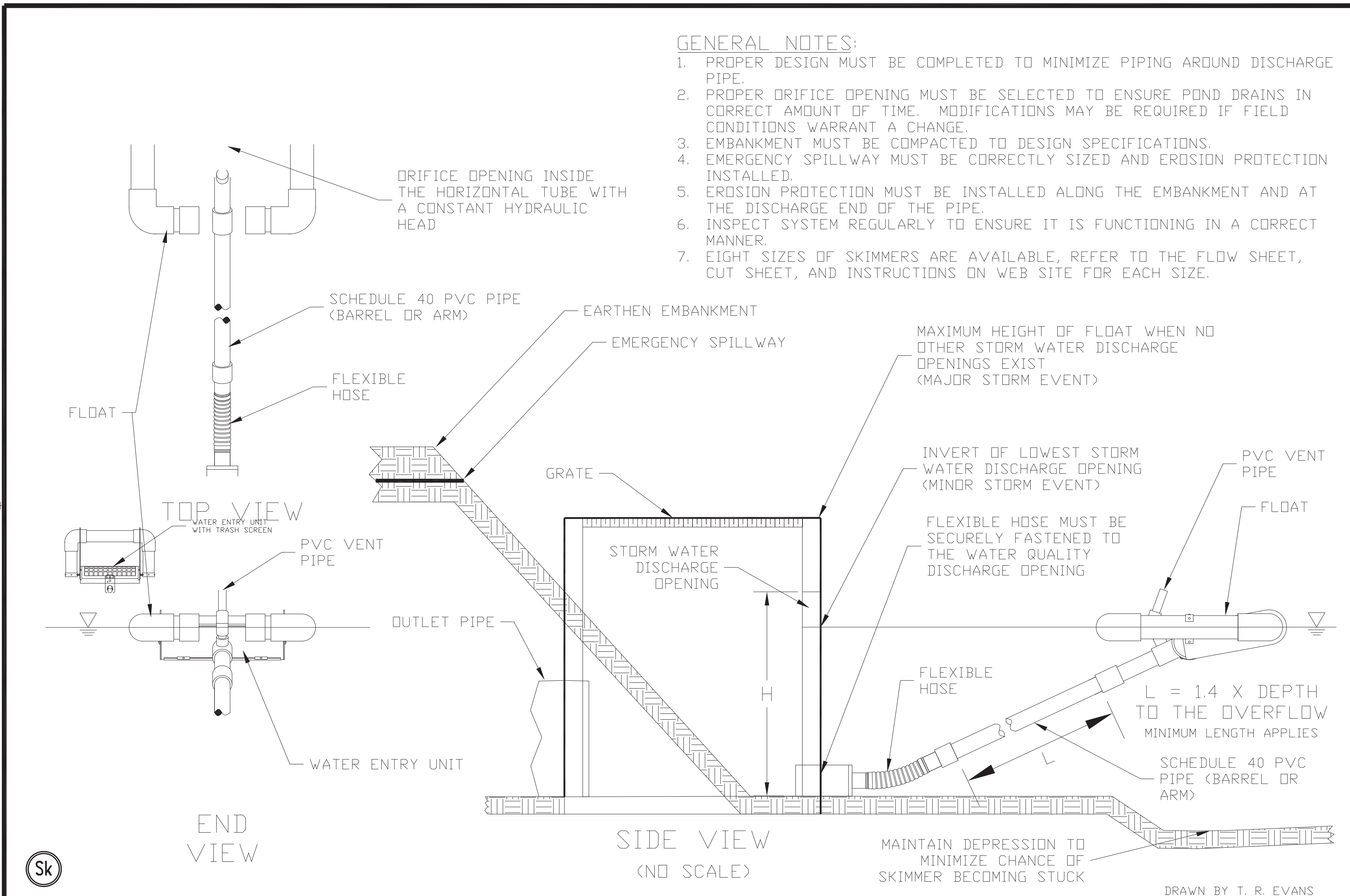
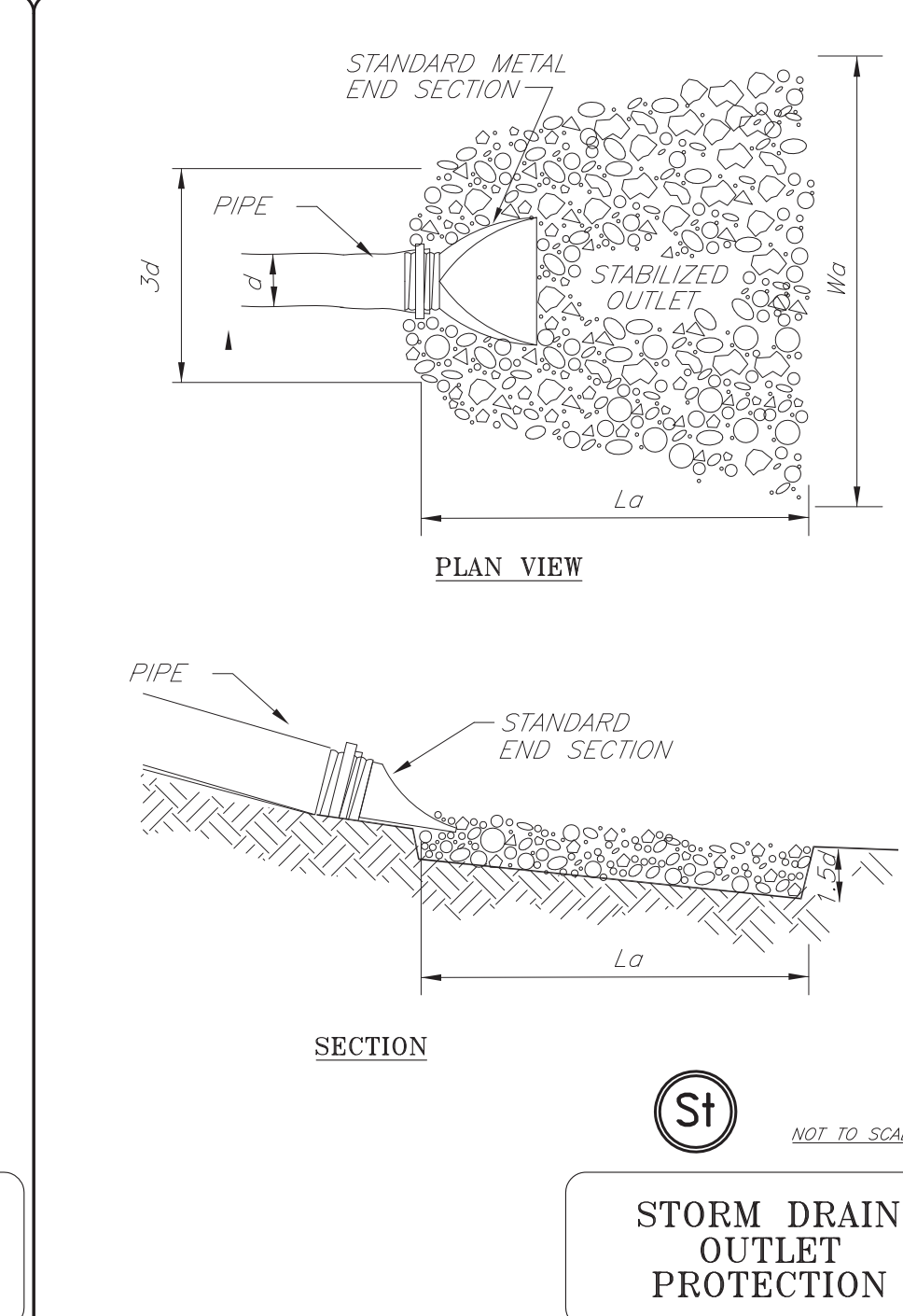
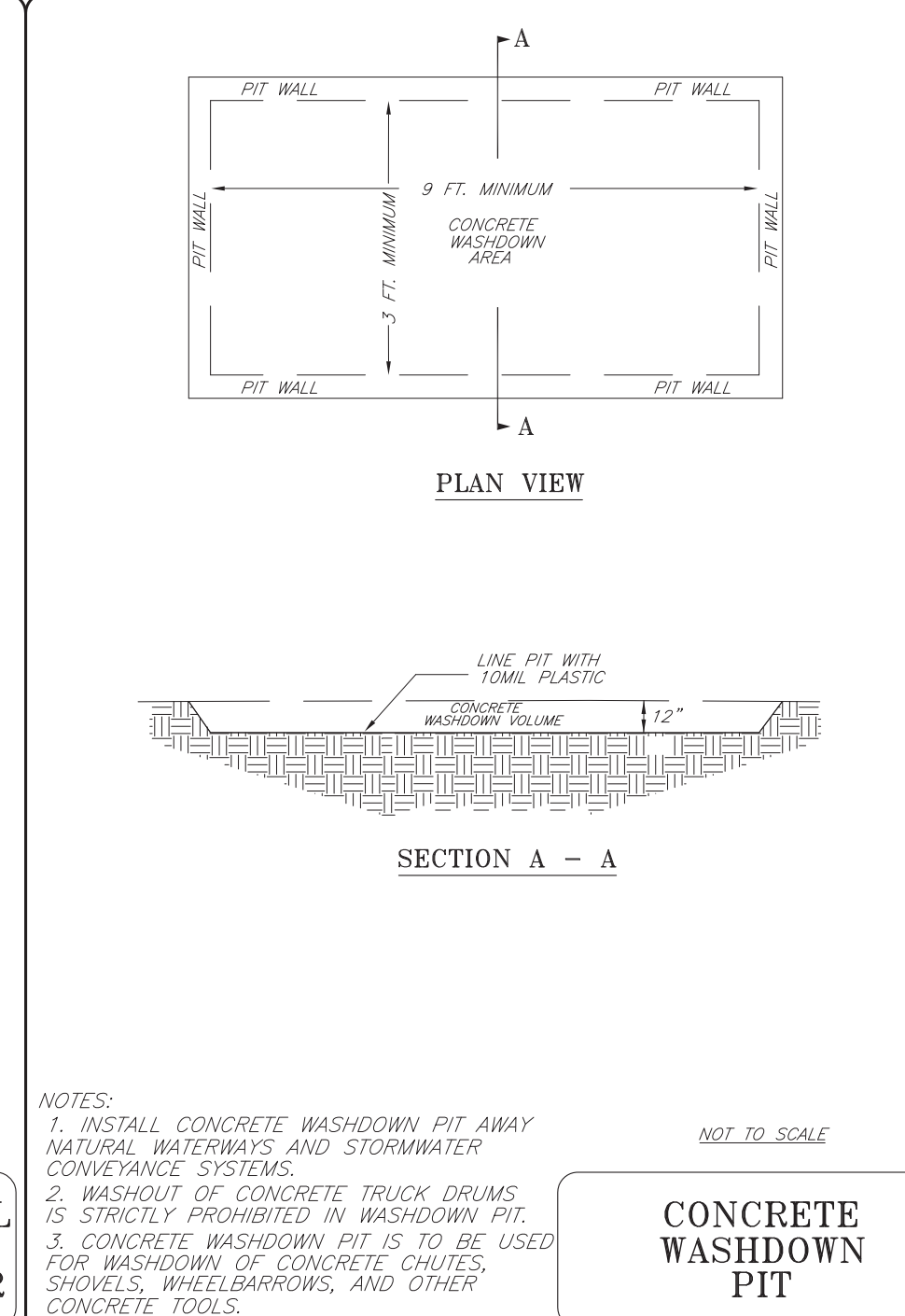
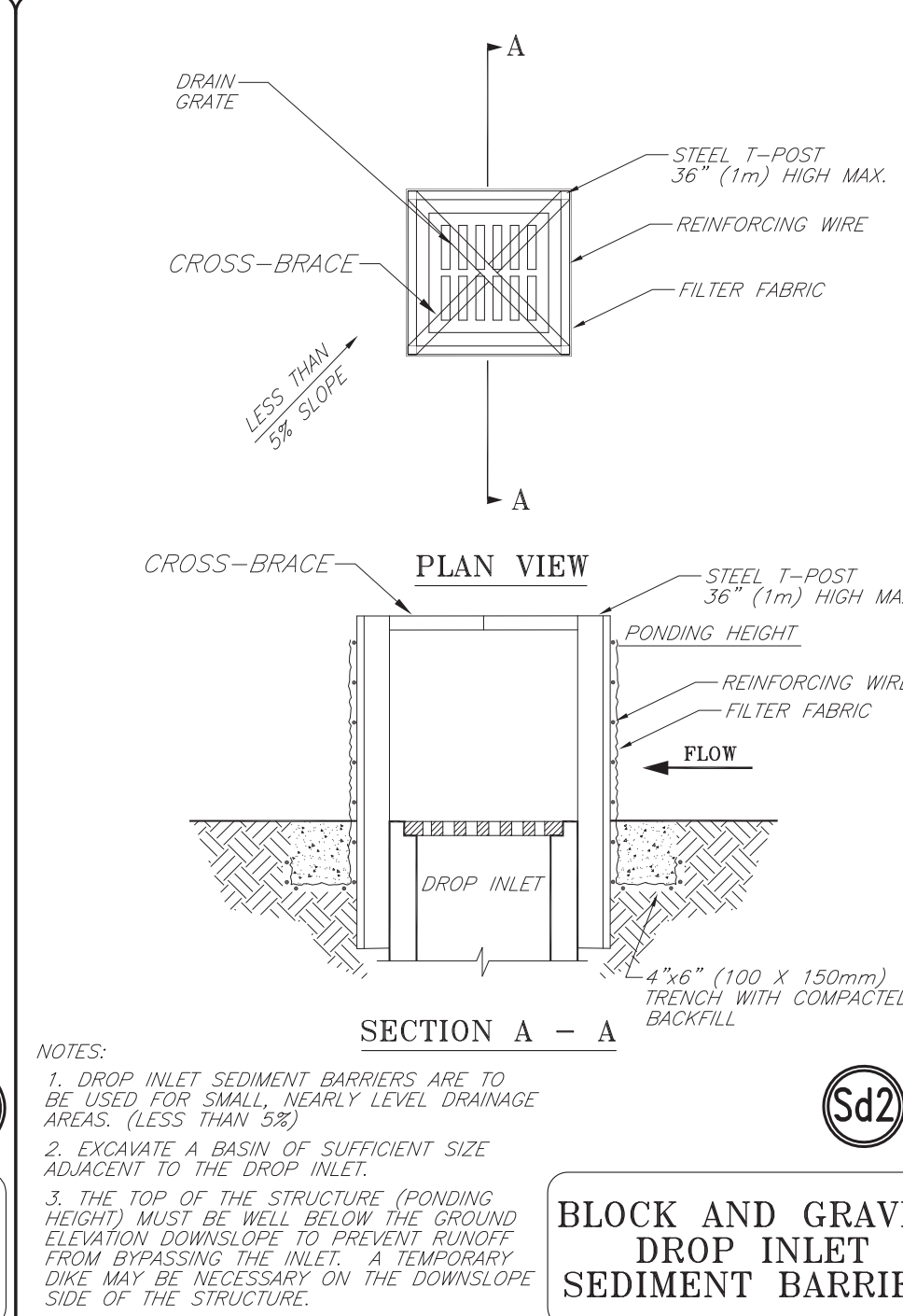
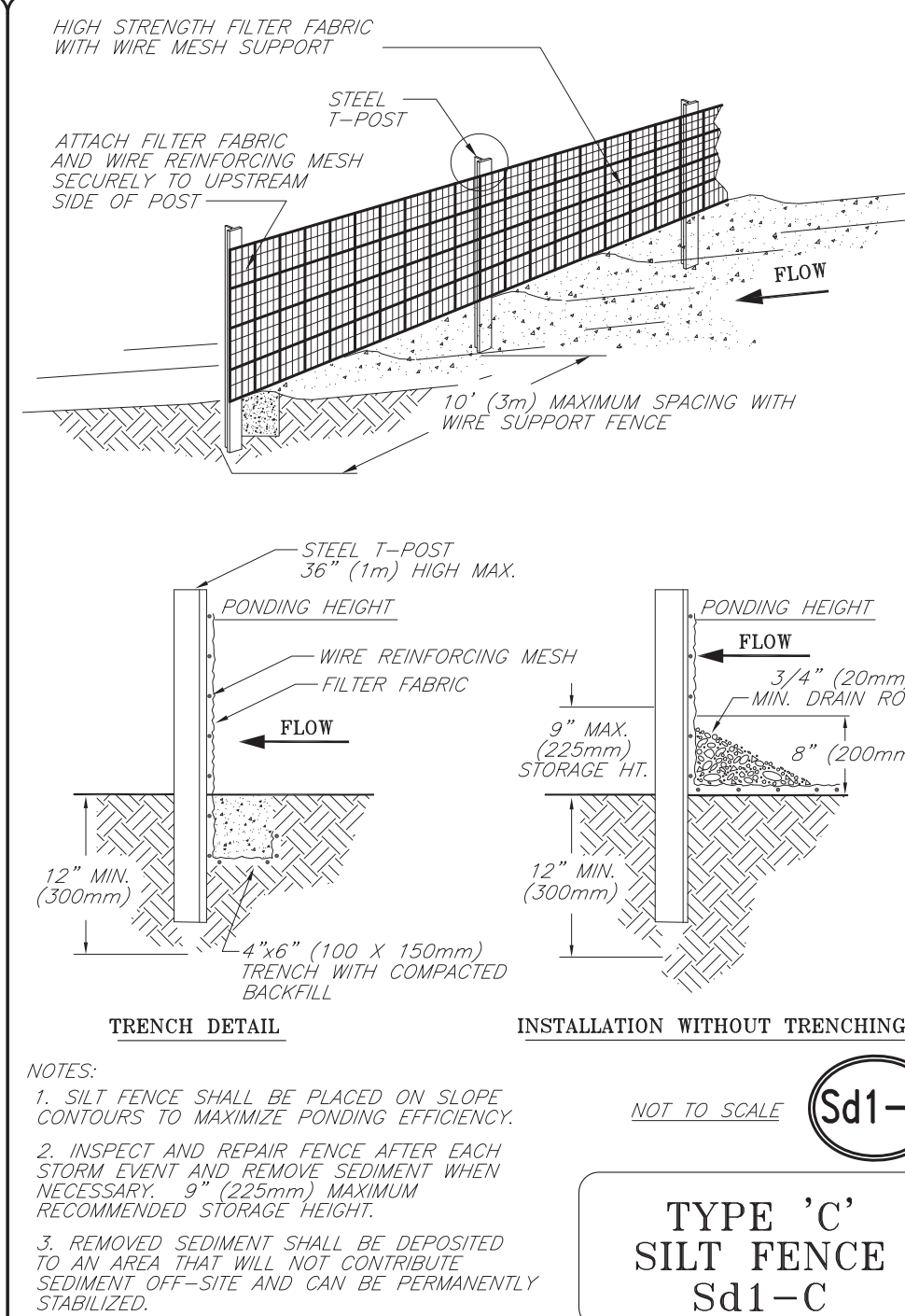
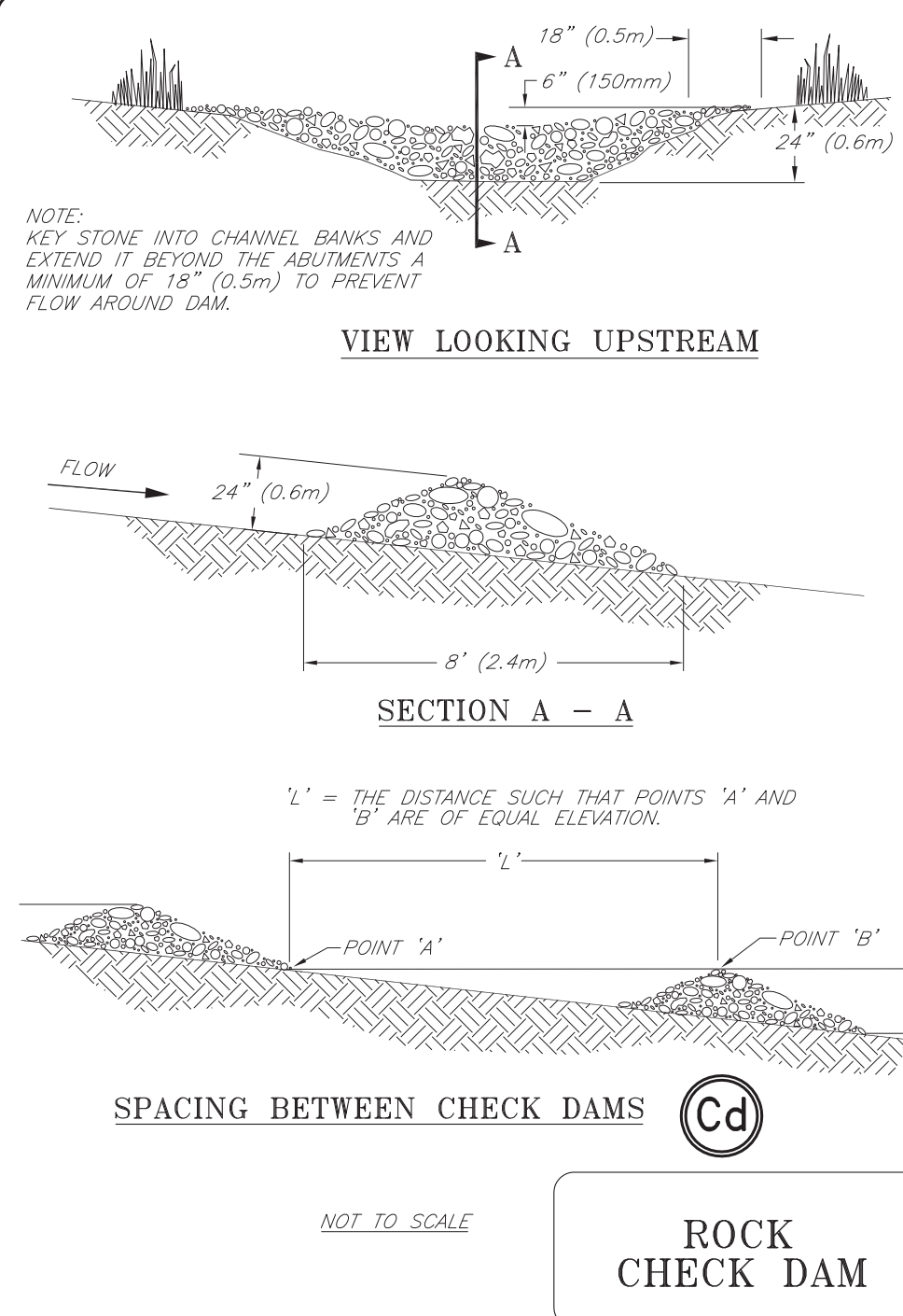
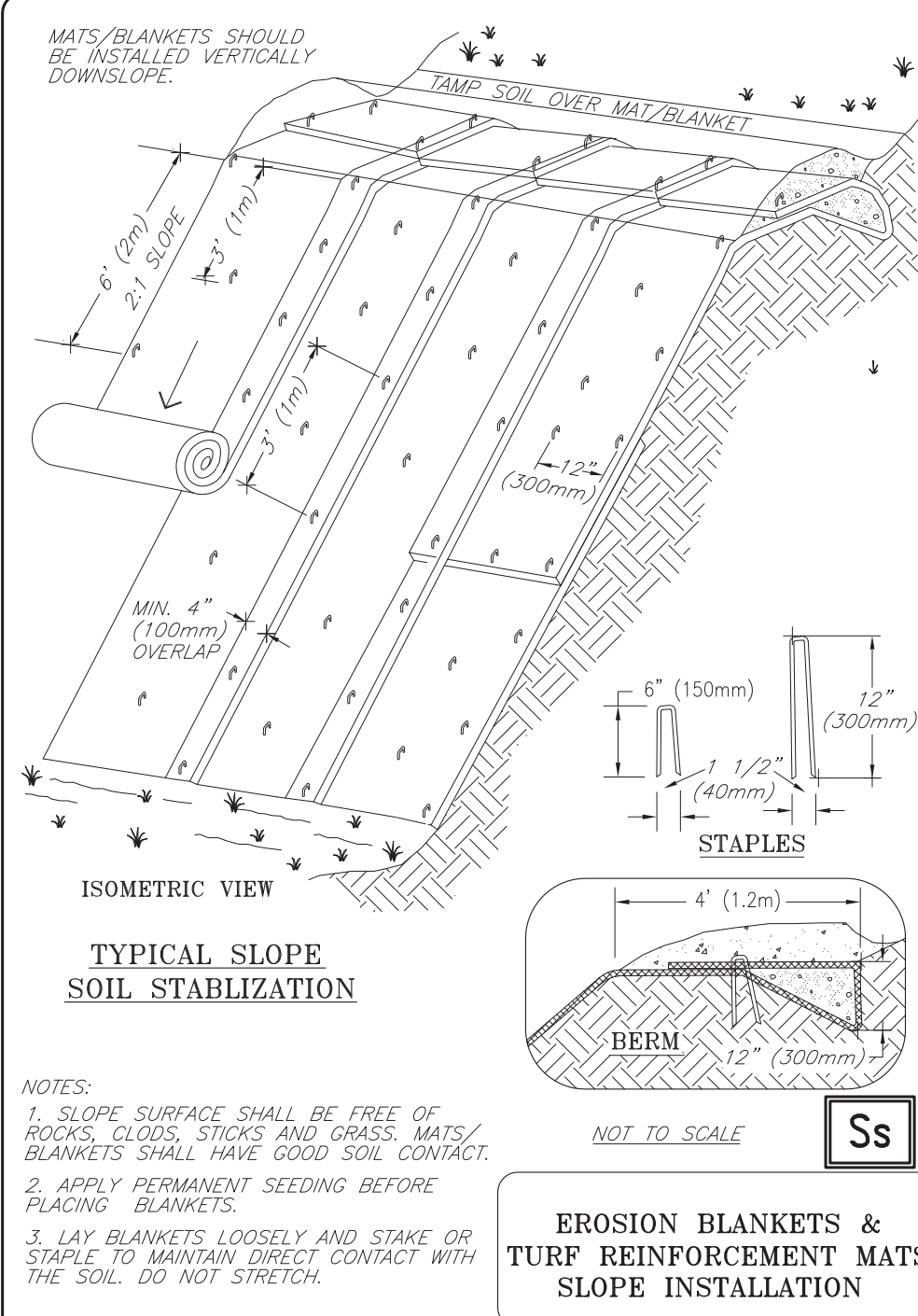
DATE: AUGUST 1, 2022
 SCALE: 1" = 30'

CIVIL SOLUTIONS
 ENGINEERING & LAND SURVEYING
 Gregory J. Dewberry, PE, LS
 P.O. Box 156
 Bremen, Georgia 30110
 (770) 537-4087



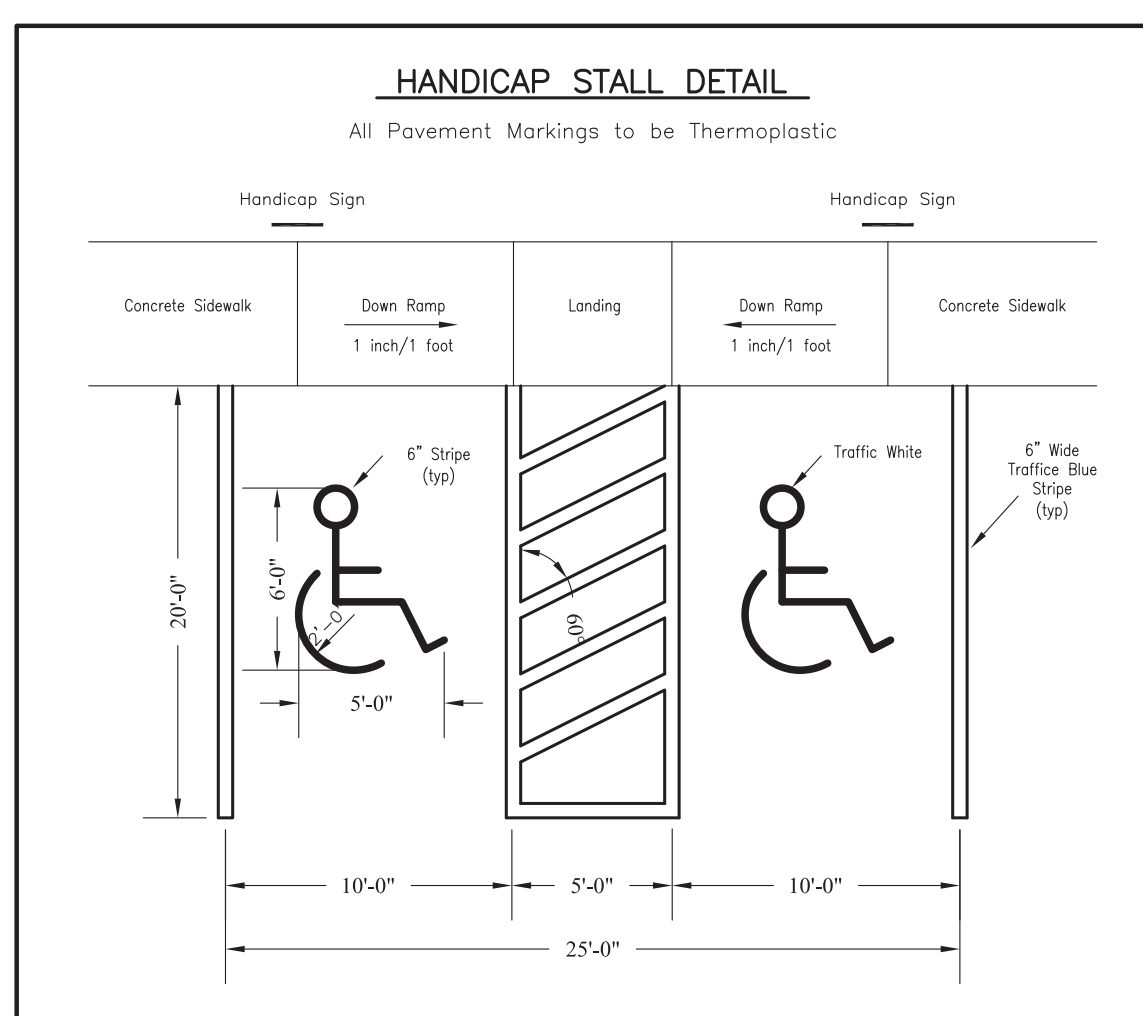
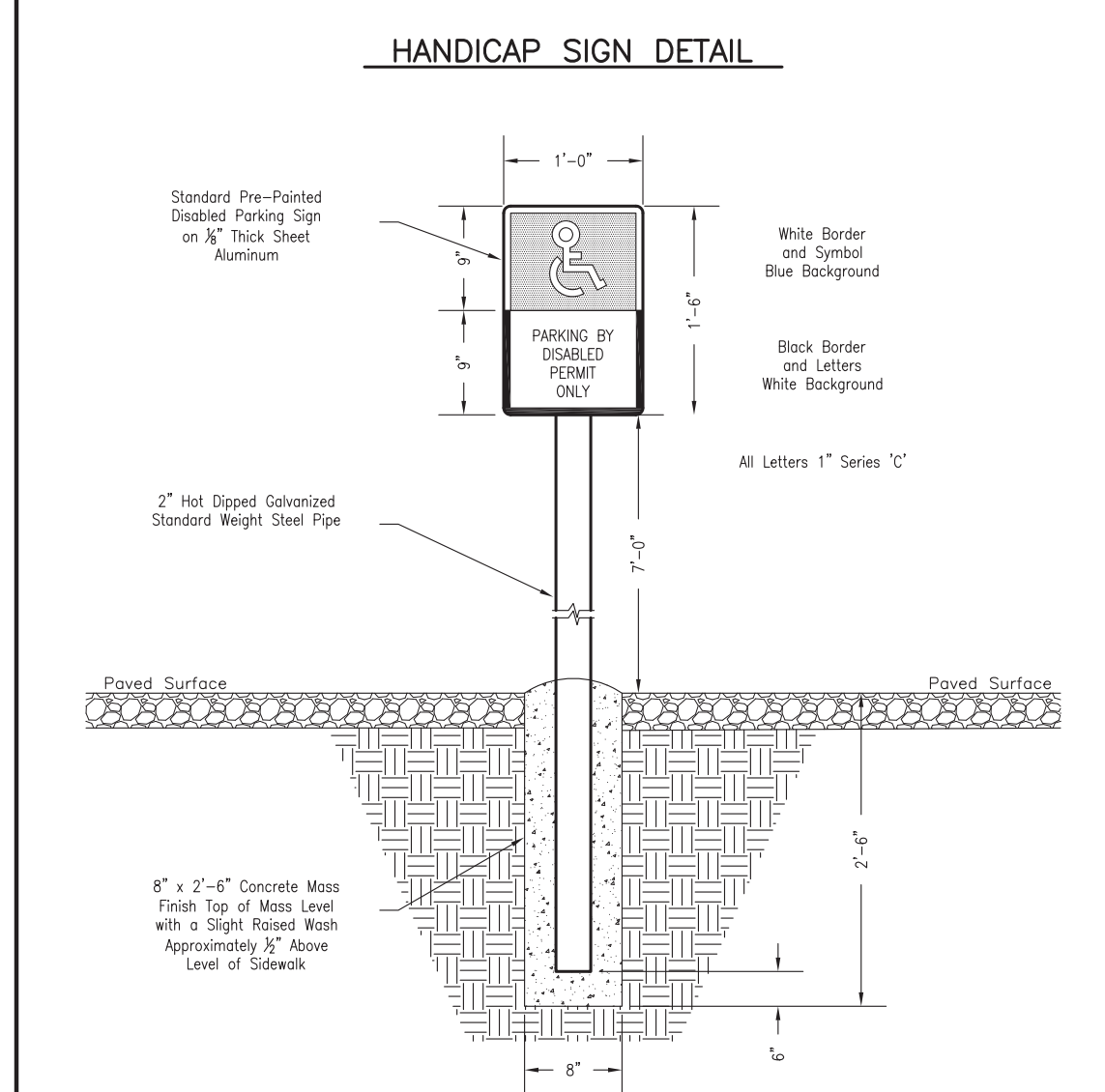
Carrollton
 City of Carrollton - P.O. Box 1949, Carrollton, Georgia 30112 - Telephone 770-830-2000 City Hall

Carrollton
 City of Carrollton - P.O. Box 1949, Carrollton, Georgia 30112 - Telephone 770-830-2000 City Hall



FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH OUTLET STRUCTURE

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 FAX: (919) 732-1266
 EMAIL: WARREN@FAIRCLOTHSKIMMER.COM



ENGINEER

Gregory J. Dewberry, P.E., L.S.
 P.O. Box 156
 Bremen, Georgia 30110
 (770) 537-4087

STORMWATER POLLUTION PREVENTION PLAN (SWP3)

Project Name: WAL-MART SHADOW CENTER
Location: 450 Stripling Chapel Road
Carrollton, Georgia 30117

LATITUDE: N 33.541542°
LONGITUDE: W 85.076323°

I. Narrative Notes and Other Information

- A. Project Description:**
Project will consist of the clearing, grading, and stabilization necessary to construct a commercial storage facility.
- B. Developer Information**
Delta Management, Inc.
2470 Windy Hill Road, SE
Suite 256
Marietta, Georgia 30067
(770-830-8866)
- C. 24-hour Local Erosion and Sedimentation Control Contact:**
Gregory J. Dewberry, PE, LS 770-537-4087
- D. Total Acreage / Disturbed Acreage**
Estimated Total Site Acreage: 1.55 Acres
Total Disturbed Area Development: 1.50 Acres
- E. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.**
- F. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES, IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
- G. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
- H. CONTRACTOR/PERMITEE TO CONTACT THE DESIGN PROFESSIONAL IMMEDIATELY UPON LAND DISTURBANCE TO PERFORM THE DESIGN PROFESSIONAL INSPECTION OF EROSION CONTROL MEASURES WITHIN 7 CALENDAR DAYS OF COMMENCEMENT OF LAND DISTURBANCE.**
- I. ANY CHANGE IN EROSION CONTROL MEASURES WITH A HYDRAULIC COMPONENT REQUIRE THE ESPCP TO BE REVISED AND RECERTIFIED BY THE DESIGN PROFESSIONAL.**
- J. Storm Water Management**
Effective Stormwater Management will be evaluated in terms of both quantity and quality. Quantitative measurement will be calculated as a ratio between predeveloped stormwater runoff rates and post-developed stormwater runoff rates with a not to exceed ratio of 99% of the predeveloped rates. Qualitative measurement will be in terms of turbidity readings taken upstream and downstream of the proposed site.

At present, the proposed site lies exclusively within a single drainage basin, denoted Basin "A", that measures 1.62 acres and is included in a previously studied basin for the Wal-Mart Supercenter development.

In the predeveloped condition, the affected site area has a coefficient of runoff value of 0.30. For the developed condition, the affected site can be divided in 1.137 acres of thru-point area with a runoff coefficient of 0.85. The remaining 0.25 acre is classified as bypass flows with a runoff coefficient of 0.65. Both flows will enter into the stormwater conveyance network for the regional stormwater facility for the Wal-Mart Supercenter development.

With regard to stormwater quality, monitoring points have been established at drainage outfalls for the proposed site as shown on Sheet 6. For receiving stream sampling, NTU change between upstream and downstream sampling points cannot exceed 75 NTU for Warm Water Fisheries Streams.

The designated monitoring points are representative in nature across the specific basin and the location of such were chosen based on the following criteria:

- The size of the drainage basins traveling through the site - Typically larger basins are chosen for monitoring points. Larger basins produce higher stormwater flows; therefore increasing the consistency of the stormwater samples.
- Location of the monitoring points - Typically monitoring points are spread out evenly throughout the project site. Due to the consistency of the project terrain and the close proximity to one clearing area, another, one basin will be chosen as the representative basin.

- Type of soils present and terrain - Typically monitoring points are located in areas where soil type erosive characteristics transition. Also, monitoring points are typically located in areas where terrain characteristics change. The majority of the soils for this project are Madison sandy loam.
- Construction method - Typically monitoring points are located in areas where construction methods change. The monitoring point was chosen in a basin that channelized a considerable amount of disturbed acreage with an accessible sampling location per land rights. The clearing and grading methods used will include typical methods such as cutting trees and removing the root matrix with grading equipment. The project site will be seeded as indicated in the attached sediment and erosion control documents.
- Environmentally Sensitive Drainage Areas - Typically environmentally sensitive drainage areas contain stormwater monitoring points. Wetlands and streams are not necessarily considered environmentally sensitive areas for this evaluation.

- K. Upstream Conditions**
Upstream of the basin outfall point there is a mixture of wooded and residential land uses.

- L. Downstream Conditions**
The immediate downstream areas are heavily wooded and continue a consistently sloping terrain.

- M. Name of Receiving Waters: Tributary to Little Buck Creek**
Monitoring Point #1: Monitoring Point #1 is located at the outfall of the proposed detention pond.
Monitoring Point #2: Monitoring Point #2 is located downgrade of the project in a drainage swale within Basin B.

- N. Extent of Wetlands Acreage**
There are 0.00 acres of wetlands impacted by this project.

- O. Soil description or quality of any discharge from the site. See soils data on Topographic Map for site soil types based on the USDA Soils Survey.**

The following information shall comply with the NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY INTO THE WATERS OF THE STATE OF GEORGIA.

Specifically the NPDES General Permit No. GAR10001, Authorization To Discharge Under The National Pollutant Discharge Elimination System Storm Water Discharges Associated With Construction Activity For Stand-Alone Construction Projects, further referred to as the general permit or the permit.

DEADLINES FOR NOTIFICATION (To Be Filed by Primary Permittee)

- 1. Owners or Operators or both who intend to obtain coverage under this general permit for storm water discharges from a construction site (where construction activities begin after issuance of this permit), shall submit a Notice of Intent (NOI) in accordance with the requirements of this Part at least fourteen (14) days prior to the commencement of construction activities.
- 2. For all sites where construction activities subject to this permit are occurring on the effective date of this permit, the Owner or Operator of both shall submit a re-issuance NOI for the existing construction site in accordance with the requirements of this part no later than 30 days after the effective date of this permit.
- 3. A discharger is not precluded from submitting an NOI in accordance with the requirements of this part after the dates provided in Parts II.A.1 or II.A.2 of this permit. In such instances, EPD may enforce an action for failure to submit an NOI in a timely manner or for any unauthorized discharges of stormwater associated with construction activity that have occurred on or after the dates specified in Part II.A.1, and II.A.2.
- 4. Where an Owner or Operator or both changes after an NOI has been filed, the subsequent Owner or Operator or both must submit a re-issuance NOI in accordance with the permit or occur (a) 7 days before beginning work at the facility/construction site, or (b) 30 days from acquiring legal title to the facility/construction site.
- 5. For sites where construction activities will result in land disturbance equal to or greater than 1.0 acre that are required as a result of stormwater management activities, the Owner or Operator or both shall notify the appropriate EPO District Office within 3 days of commencement of said construction activities. The Owner or Operator or both shall submit the NOI to the appropriate EPO District Office as soon as possible after the stormwater management related event, but no later than 14 days after the commencement of construction activities and shall submit the Plan in accordance with Part IV.A.6.

See General Permit No. 100001 for further deadlines and exemptions

The Notice of Intent Shall be Submitted by the following procedure (to be filed by Primary Permittee)
NOIs are to be submitted to EPD using electronic submittal service provided by EPD and a copy to the Local Issuing Authority in jurisdictions authorized to issue a Land Disturbance Activity permit for the permittee's construction site pursuant to O.C.G.A. 12-7-1. The primary permittee shall retain a copy of the proof of submittal as the construction site shall be readily available at a designated alternative location from commencement of construction until such time as a Notice of Termination (NOT) is submitted in accordance with Part VI.

Applicable Fees (to be paid by Primary Permittee)
Any applicable fees shall be submitted by the Primary Permittee in accordance with Rules and Regulations for Water Quality Control (Rules) promulgated by the Board of Natural Resources. By submitting an NOI for coverage under this permit, the primary permittee agrees to pay any and all required, now or later, fees by the Board of Natural Resources. A Section 12-6-23(b)(5)(A), which allows the Board of Natural Resources to establish a fee system. Fees may be imposed on land disturbing activity proposed to occur on or after the effective date of this permit and shall be paid in accordance with such Rules.

II. Pollution Controls

- A. Cut and Fill**
 - Operations shall be kept to a minimum, phase if possible.
 - Shall not endanger adjoining properties.
 - Fills shall not encroach upon natural watercourses. Channels shall not be constructed in a manner so as to adversely affect other property owners.
 - Minimize damage from surface water to the cut face of excavations or the sloping surfaces of fills.
- B. State Water Banks**
 - Vehicle areas - Fills shall not be conducted within the 25-foot undisturbed stream buffer as measured from the point of wooded vegetation along the banks of any State waters or within 25 feet of the coastal marshland floor as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.
 - Non-exempt activities shall not be conducted within the 50-foot undisturbed stream buffer as measured from the point of wooded vegetation along the banks of any State waters classified as a "trout stream" without first acquiring the necessary variances and permits.
- C. Stabilization Practices**
 - Vehicle areas - Fills in hill eroded areas when found.
 - Temporary Mulching - When an area will be left open more than 14 days with no construction.
 - Sod stabilization - Used in higher velocity channel flows.
 - Permanent vegetation - This is to be established once final grade is achieved.
 - Surface roughening - Texturing of soil surfaces to reduce sheet flow and improve surface water impoundment.
 - Sediment Basins - Shall be inspected to insure stable side slopes.
- Off-site vehicle tracking**
A stabilized construction entrance will be provided to help reduce vehicle tracking of sediments. The paved streets adjacent to the site will be swept and scraped regularly to remove any excess mud, dirt, or rock tracked from the construction area. A source of fresh water for washing sediment from trucks, especially during periods of wet weather, may be provided in order to minimize the amount of street sweeping and scraping required. Any wastewater resulting from this operation will be directed into a sediment trap.
- Waste materials**
All trash and construction debris from the site will be hauled to an approved landfill. No construction waste material will be buried on-site. All personnel will receive instructions regarding the correct procedure for waste disposal. Notices describing these practices will be posted in the construction office. The site superintendent will be responsible for seeing that these procedures are followed. Employees used for waste disposal shall be instructed on the proper release of "floatables" during runoff events. No waste materials shall be dumped into any adjacent state water except as authorized by a Section 404 Permit.
- Hazardous waste**
No hazardous waste is expected to be generated or encountered in this project. In the event that hazardous waste is encountered, all hazardous waste materials will be disposed of in the manner specified by local or state regulation or by the manufacturer. The site superintendent will be responsible for seeing that these practices are followed.
- Sanitary waste**
The ESPCP shall incorporate and adhere to all county and state waste disposal and sanitary sewer system regulations. Any portable toilet units shall be located away from storm drain inlets. A licensed sanitary waste management contractor will regularly collect all sanitary waste from the units.
- Grading equipment**
Grading equipment shall cross-flowing streams by the means of bridges or culverts, except when such methods are not feasible, provided in any case that such crossings should be kept to a minimum.
- Dust Control**
During grading operations (if applicable), periodically apply moisture spray to large areas for dust control.

III. Materials and Safety

- Note: This section is provided for informational purposes only. All Material Safety and Spill Prevention Control Contingency (SPCC) plans are to be in accordance with policies and procedures already in place.
- A. Significant Materials Expected at Site Inventory:**
Lumber, Concrete mix, Steel reinforcing bars and related materials, Lumber, Diesel fuel and lubricating oils, Reinforced concrete pipe, Ductile iron pipe, Steel pipe, Paints, Fertilizers
- B. Spill Prevention and Response Procedures**
Spill prevention and response includes "Good Housekeeping" as well as specific practices for certain products and established procedures for responding to spills which do occur.
- C. Practices for Products, "Good Housekeeping"**
 - Materials - An effort will be made to store only enough material required to do the job.
 - Storage - All materials stored on-site will be stored in a neat, orderly manner in their appropriate containers and stored in a covered area. If storage in a covered area is not possible the materials will be covered with polyethylene or polypropylene sheeting to protect them from the elements.
 - Mixing - Substances will not be mixed with one another unless recommended by the manufacturer.
 - Labeling - Products will be kept in their original manufacturer's labeled afford to each container.
 - Disposal - Whenever possible, all of a product will be used before disposing of the container. Manufacturer recommendations for proper use and disposal will be followed.
 - Inspections - The site superintendent will inspect the site regularly to ensure proper use and disposal of materials on-site.
 - Spill materials - Any excavated earth that will not be used for fill material and all demolished pavement will be hauled off site immediately and disposed of properly.
- D. Specific Product Practices**
 - Petroleum Products - All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. If petroleum products will be present at the site, they will be stored in tightly sealed containers, which are clearly labeled. Any asphalt substances used on-site will be applied according to the manufacturer recommendations.
 - Concrete Trucks - Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water at the site.
 - Concrete Tools - All concrete tools, chutes, and hoppers shall be washed at the designated concrete washdown area. Accumulated waste shall be disposed by a private concrete disposal contractor.
 - Fertilizers - All containers will be tightly sealed and stored when not required for use. Excess paint will not be poured into the storm sewer system but will be properly disposed of according to manufacturer instructions or State and local regulations.
 - Fertilizers - Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. The fertilizer will be stored in a covered area and any partially used bags will be transferred to a sealable plastic bin to avoid spills.
- E. Spill Control and Response Practices**
The owner or the site superintendent will designate a spill prevention and response team. In addition, the following practices will be followed for spill cleanup.
 - Information - Manufacturers recommended methods for spill cleanup will be clearly posted, and site personnel will be made aware of the procedures and the location of the EPO according to the schedule in Appendix A of this permit.
 - Equipment - Materials and equipment necessary for spill cleanup will be present on the site at all times. Equipment and materials will include but not be limited to brooms, shovels, rags, gloves, goggles, absorbent materials (sand, sawdust, etc.) and plastic or metal trash containers specifically for this purpose. The materials and equipment necessary for spill cleanup will be dependent upon the nature and quantity of the material stored on-site.
 - Response - Care shall be taken to prevent and contain any petroleum spills. In the event of a spill, appropriate remediation measures shall be immediately undertaken. Those measures shall include removal of the contaminated soil, replacement of said soil, placing of petroleum tanks on above ground pad with surrounding berms to provide secondary containment to prevent leakage into any storm water system.
 - Safety - The spill area will be kept well ventilated, and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
 - Reporting - Spills of toxic or hazardous material (if present on site) will be reported to the appropriate state or local government agency, regardless of the volume of the spill. Spills of fuels, wood mulch, bark, or equivalent sediment controls are required for all site slope and down slope boundaries of the construction area. When the sediment fills to a volume of at or 22 cubic yards per acre of each drainage area, the sediment shall be removed and disposed of properly to restore the original design volume. Perennial and intermittent waters of the State shall not be used for temporary or permanent sediment detention.

Each Plan shall include a description of appropriate controls and measures that will be implemented at the construction site including initial sediment storage requirements and perimeter grading and drainage BMPs, and final BMPs. The description and implementation of controls shall address the following minimum components:

- A. Erosion and Sediment Controls**
 - Stabilization Measures
 - A description of interim and permanent stabilization measures, including site-specific scheduling of the implementation of the measures.
 - Stabilization measures may include temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection trees, preservation of mature vegetation, and other appropriate measures. Except as provided below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.
 - Structural Practices
 - A description of 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 to the degree attainable. Such practices may include silt fences, earth dikes, drainage weirs, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gullions, and temporary or permanent sediment basins.
 - Sediment Basins
 - For common drainage locations, a temporary (or permanent) sediment basin providing at least 1600 cubic feet (67 cubic yards) of storage per acre treated, or final stabilization of the site. The storage area per acre drained does not apply to flows from off-site areas and flows from on-site areas that are either undisturbed or have undergone final stabilization where such flows are diverted around both the disturbed area and the sediment basin. For drainage locations where a temporary sediment basin is not attainable, such as steep slopes, all areas of the site where erosion is expected to occur shall be stabilized with sod stabilization and down slope boundaries of the construction area. When the sediment fills to a volume of at or 22 cubic yards per acre of each drainage area, the sediment shall be removed and disposed of properly to restore the original design volume. Perennial and intermittent waters of the State shall not be used for temporary or permanent sediment detention.
 - When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan. Outlet structures that withdraw water from the surface are temporary BMPs and must be removed prior to submitting a Notice of Termination.
- Alternative BMPs**
The use of alternative BMPs whose performance has been documented to be equivalent or superior to conventional BMPs as certified by a Design Professional may be allowed unless disallowed by the EPO or the Georgia Soil and Water Conservation Commission.
- High Performance BMPs**
The use of infiltration trenches, seep berms, sand filters, dry wells, flocculants or coagulants, etc. for minimizing point source discharges except for large rainfall events is encouraged.
- B. Stormwater Management**
A description of measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed. Operators are only responsible for the installation and maintenance of stormwater management measures prior to final stabilization of the site, and are not responsible for maintenance after stormwater discharges associated with construction activity have been eliminated from the site.
 - Such practices may include stormwater detention structures (including wet ponds), stormwater retention structures, flow attenuation by open vegetated swales and natural depressions, infiltration of runoff on-site, and retention of runoff on-site.
 - Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel for the purpose of providing a non-erosive velocity flow from the structure to the water course so that the natural physical and chemical characteristics and functions are maintained and prohibiting activity proposed to occur on or after the effective date of this permit and shall be paid in accordance with such Rules.
 - Installation and use of green infrastructure approaches and practices that mimic natural processes and direct stormwater where it can be infiltrated, evaporated/transpired, or re-used with significant utilization of soils and vegetation rather than traditional drainage collection, conveyance and storage structures are encouraged to the maximum extent possible.

STORMWATER SAMPLING (To Be Completed by the Primary Permittee)
This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with the permit. These requirements shall not apply to any land disturbance associated with the construction of single-family homes which are not a part of a subdivision or planned common development unless 5 acres or more will be disturbed.

Sample Requirements

- (1) A USGS topographic map, a topographic map, or a drawing referred to as a topographic map that is at a scale equal to or greater than 1:24,000 showing the location of the site or the stand alone construction, the location of all perennial and intermittent streams and other water bodies shown on a USGS topographic map or located during mandatory field verification into which the stormwater is to be discharged, and the receiving water and/or outfall sampling locations.
- (2) A written narrative of site specific analytical methods used to collect, handle, and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location.
- (3) When the permittee has determined that some or all outfalls will be sampled, a rationale based on the size of the construction site, size of surface water drainage area, and type of receiving water must be included on the Plan for the NTU limits selected in Appendix B.
- (4) Any additional information EPD determines necessary to be a part of the Plan.

Sample Type

- All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.
 - Sample containers should be labeled prior to collecting the samples.
 - Samples should be well rinsed before transferring to a secondary container.
 - Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
 - Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are to be analyzed directly with the minimum frequency specified in the permit.
 - Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E. of the permit.

Stormwater Sampling Points

- For construction activities, the permittee must sample all receiving water(s), outfall(s), or combination thereof. Samples taken for the purpose of compliance with the permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or stormwater outfalls using the following minimum guidelines.
 - The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence with the first stormwater discharge from the permitted activity.
 - The downstream sample for each receiving water(s) must be taken downstream of the confluence with the last stormwater discharge from the permitted activity.
 - Samples should be taken from the horizontal and vertical center of the receiving water(s) or outfall channel(s).
 - Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or outfall channel(s).
 - The sampling container should be held so that the opening faces upstream.
 - The samples should be kept free from floating debris.
 - Permittees do not have to avoid stirring the bottom sediments in the receiving water(s) or outfall channel(s) if the sampling is not performed. Providing this justification does not relieve the permittee of any sampling obligations under (a), (b), or (c) above.
 - All sampling pursuant to this permit must be done in such a way regarding methods, location, timing, and frequency as to accurately reflect whether stormwater runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. and III.D.4.

Sampling Frequency

- (1) The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any stormwater discharge to a monitored receiving water and/or from a monitored outfall location within 45 minutes or as soon as possible.
 - However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.
 - Sampling by the permittee shall occur for the following events:
 - For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge during normal business hours as defined in this permit after all clearing and grading operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;
 - In addition to above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submital of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;
 - At the time of sampling for each stormwater discharge, if an BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within 2 business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch with a stormwater discharge during normal business hours until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;
 - Where sampling pursuant to (a), (b), or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with the permit, must include a written justification of why sampling was not performed. Providing this justification does not relieve the permittee of any sampling obligations under (a), (b), or (c) above;
 - Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) through (c) above, shall not be required to conduct additional sampling other than as required by (b) above.

- (2) Where sampling by the permittee shall occur for the following events:
 - For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge during normal business hours as defined in this permit after all clearing and grading operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;
 - In addition to above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submital of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;
 - At the time of sampling for each stormwater discharge, if an BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within 2 business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch with a stormwater discharge during normal business hours until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;
 - Where sampling pursuant to (a), (b), or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with the permit, must include a written justification of why sampling was not performed. Providing this justification does not relieve the permittee of any sampling obligations under (a), (b), or (c) above;
 - Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) through (c) above, shall not be required to conduct additional sampling other than as required by (b) above.

*Normal Business Hours means Monday thru Friday, 8:00 AM to 5:00PM, excluding any non-working Saturday, non-working Sunday, and non-working Federal Holiday.

*Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allow for sampling at any time of day or week.

STORMWATER REPORTING (To Be Completed by Primary Permittee)

- (1) The applicable permittee shall report the results of sampling to the EPO at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which sample are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the results of sampling to the EPO in a format of the permittee's choosing.
 - All sampling reports shall include the following information:
 - a. The rainfall amount, date, exact place, and time of sampling or measurements;
 - b. The names of the certified personnel who performed the sampling and measurements;
 - c. The date(s) analyses were performed;
 - d. The time(s) analyses were initiated;
 - e. The name(s) of the certified personnel who performed the analysis;
 - f. Reference and written procedures, when available, for the analytical techniques or methods used;
 - g. The results of such analyses, including the bench sheets, instrument readings, computer disks or tapes, etc., used to determine these results;
 - h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU"
 - i. Certification statement that sampling was conducted as per the Plan.
 - All written correspondence required by this permit shall be submitted by return certified mail (or similar service) to the appropriate District Office of the EPO according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of initial submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

RETENTION OF RECORDS (To Be Completed by the Primary Permittee)

- (1) The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from the commencement of construction until such time as a NOT is submitted in accordance with Part VI.
 - a. A copy of all Notices of Intent submitted to the EPO;
 - b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
 - c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
 - d. A copy of all sampling information, results, and reports required by this permit;
 - e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
 - f. A copy of all violation summary reports generated in accordance with Part III.D.2. of this permit;
 - g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2) of this permit;
 - (2) Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original records for continuous monitoring instruments) or other reports requested by the EPO, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee or used for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternate location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPO at any time upon written notification to the permittee.

INSPECTIONS (To Be Completed by Primary Permittee)

- (1) Each day when type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas of the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; (b) all locations at the primary site where vehicles enter or exit from the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.
 - Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Sunday, or non-working Federal Holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of arresting perennials appropriate for the region.
 - Certified personnel (provided by the primary permittee) shall inspect at least once every 7 calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater (unless such storm ends after 5:00PM on any Friday or on any non-working Sunday, or non-working Federal Holiday) in which case the inspection shall be completed by the end of the next business day and/or working day, whichever comes first:
 - (a) disturbed areas of the primary permittee's construction site;
 - (b) areas used by the primary permittee for storage of materials that are exposed to precipitation;
 - (c) structural control measures.
 - Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). Erosion and sediment control measures identified in the Erosion, Sedimentation and Pollution Control Plan shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).
 - Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan shall be reviewed as appropriate. If more than 7 calendar days following each inspection, implementation of such changes shall be made as soon as practical, but in no case later than 7 calendar days following each inspection.
 - (6) A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., whether pre-final stabilization or final stabilization), the observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5) of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and been submitted to EPO. Such reports of Termination shall be readily available by the end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

MAINTENANCE

The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion, and sediment control measures and other protective measures identified in the site plan.

TERMINATION OF COVERAGE

Notice of Termination Eligibility

- A Notice of Termination (NOT) signed in accordance with Part V.G.1. of the permit must be submitted:
 - For construction activities, by the permittee where the entire stand alone project has undergone final stabilization, all storm water discharges associated with construction activities that are authorized by this permit have ceased, the site is in compliance with this permit and all temporary BMP's have been removed. For construction activities where the primary permittee has elected to submit NOIs for separate phases of the stand alone development, the phase or phases of the stand alone development on the NOT shall correspond to the phase or phases on the NOI;
 - By the Owner or Operator when the Owner or Operator of the site changes. Where stormwater discharges will continue after the identity of the Owner or Operator changes, the permittee must, prior to filing the Notice of Termination, notify any subsequent Owner or Operator of the permitted site as to the requirements of this permit;

Notice of Termination Contents

- 1. The NPDES permit number GAR10000X for the stormwater discharge associated with construction activity identified by the Notice of Termination;
 - The project construction site name, GPS location in decimal degrees of the construction exit, construction site location, city and county of the construction site for which the notification is submitted. This information must correspond to the similar information as provided on the NOI, Where an address for the construction site is not available, the construction site location must be sufficient to accurately locate the construction site;
 - The Owner's legal name, address, telephone number and email address and the Operator's legal name, address, telephone, and email address;
 - The name of the initial receiving water(s), and when the discharge is through a municipal storm sewer system (MS4), the name of the local government operating the municipal separate storm sewer system and the name of the receiving water(s) which receives the discharge from the MS4;
 5. Copies of all sampling reports not previously submitted and/or a written justification why sampling was not conducted. Copies of all sampling reports may be submitted as a Portable Document Format (PDF) file on CD-ROM or other storage device;
 6. Any other information specified on the NOT in effect of the time of the submittal;
 7. The

The Notice of Termination Shall be Submitted by the following procedure (to be completed by the Primary Permittee)

All Notices of Termination by this permit shall be submitted by return certified mail (or similar service) to the appropriate District Office of the EPO and to the local Issuing Authority in jurisdictions authorized to issue a Land Disturbance Activity permit for the permittee's construction site pursuant to O.C.G.A. 12-7-1, et seq.

Remediation Plan for Impaired Streams

- (1). No mechanized equipment will be permitted within the designated stream buffer area.
- (2). All sediment from impaired stream must be removed by hand using hand tools or vacuum truck. All the analysis of these samples must be conducted in accordance with methodology.
- (3). Collected sediment must be transported off-site to a staging area for drying purposes.
- (4). Type 'C' reinforced sill fencing and/or haley bales will be installed along the perimeter of the stream buffer area beginning at the road edge and extending to the road right-of-way.
- (5). Erosion control measures along the perimeter of the stream buffer shall be inspected weekly and after each 0.5 inch rainfall event.
- (6). All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPO.
 - Sample containers should be labeled prior to collecting the samples.
 - Samples should be well rinsed before transferring to a secondary container.
 - Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
 - Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are to be analyzed directly with the minimum frequency specified in the permit must be reported to EPD as specified in Part IV.E. of the permit.
 - (7) Inspections and sampling routine shall continue until stabilization has been achieved and Notice of Termination is filed and accepted.

Certifications

I certify that the permittee's Erosion, Sedimentation, and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices (BMPs) required by the Georgia Water Quality Control Act and the document Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 10th of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls, and that the designed system and the designed system's best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100001.

Signature: _____ Date: _____

Gregory J. Dewberry
Georgia P.E. No. 23297
Georgia L.S. No. 2930
Georgia SWCC Level II No. 4440

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