

EMERSON MANOR

SUBDIVISION

LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
COBB COUNTY, GEORGIA
ZONED R-15

NO STREET PARKING HAS BEEN
APPROVED FOR THIS DEVELOPMENT

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NOTE:
ALL HANDICAP RAMPS, HANDICAP PARKING SPACES AND SIDEWALKS TO BE
A.D.A. COMPLIANT.

ALL BUFFERED STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE
PROJECT SITE HAVE BEEN DELINEATED.

ALL EROSION AND SEDIMENTATION CONTROLS, AND TREE PROTECTION
MEASURES SHALL BE INSTALLED PRIOR TO GRADING.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL
IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE
EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES
SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE
INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO
LAND-DISTURBING ACTIVITIES.

CONSTRUCTION VEHICLES AND THE VEHICLES OF THE CONSTRUCTION WORKERS
WILL PARK ON-SITE DURING ALL ON-SITE CONSTRUCTION ACTIVITY AND NO
CONSTRUCTION OR WORKER VEHICLES WILL PARK ON THE ADJACENT ROADWAYS.
SOME CONSTRUCTION VEHICLES MAY BE PARKED ON TIMBERLINE ROAD AS
NECESSARY DURING INSTALLATION OF THE OFF SITE SEWER LINE ONLY.

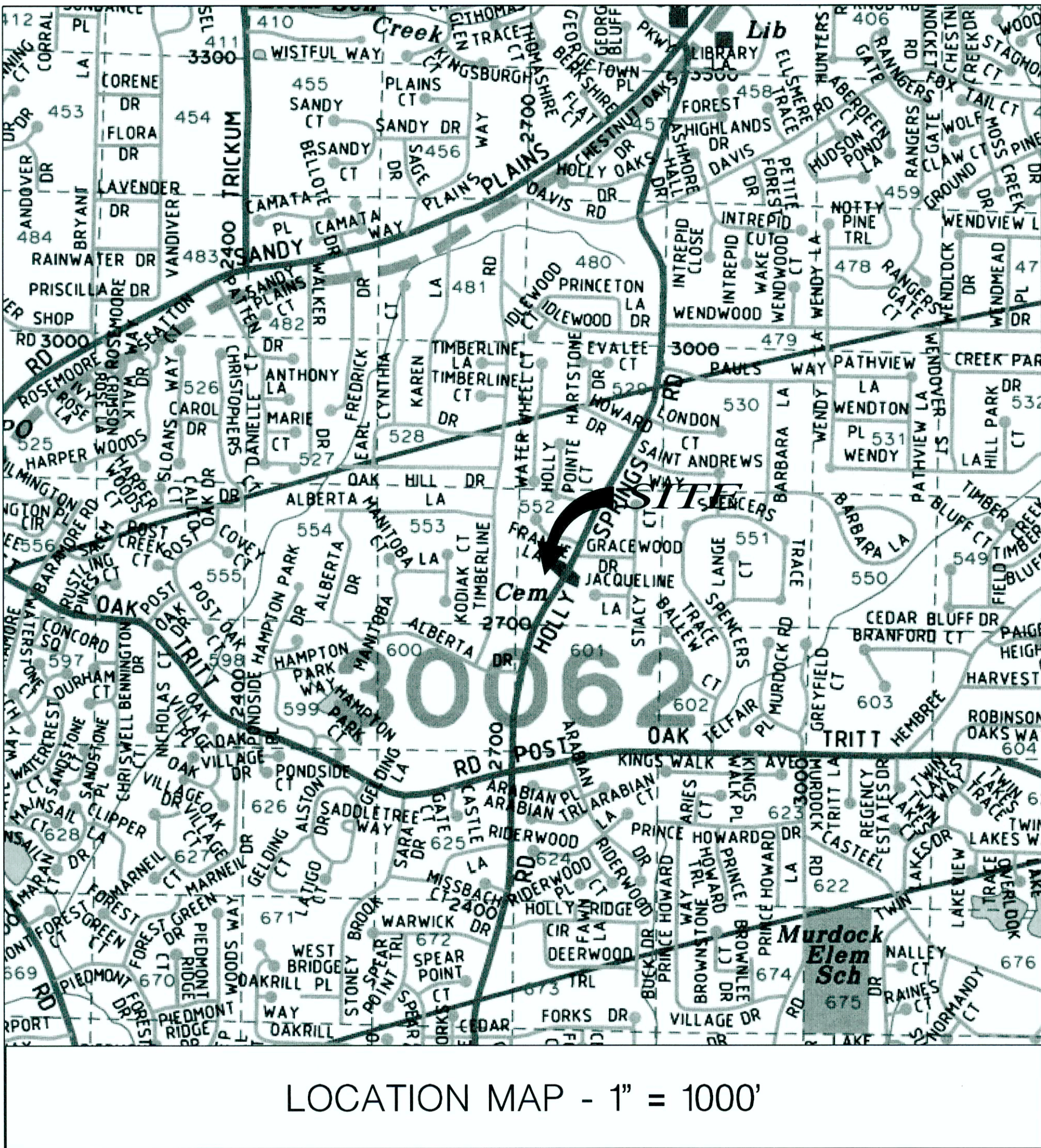
CONSTRUCTION HOURS SHALL BE LIMITED ON SATURDAY FROM 8:00 A.M. TO
6:00 P.M. AND THERE SHALL BE NO SUNDAY CONSTRUCTION HOURS.

COBB COUNTY ACCEPTS NO RESPONSIBILITY FOR THE AMERICANS WITH
DISABILITIES ACT (A.D.A.), EXCEPT FOR NOTIFICATION REQUIREMENT. THE
OWNER/DEVELOPER IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH SAID ACT.

ANY CONSTRUCTION TRAILERS TO BE PERMITTED THROUGH THE ZONING
DIVISION.

ANY SIGNS TO BE PERMITTED THROUGH THE COBB COUNTY ZONING DIVISION;
I.E., SUBDIVISION ENTRANCE SIGNS, MONUMENTS, AND ALL COMMERCIAL SIGNS.
THE LOCATION OF SUBDIVISION SIGNS MUST ALSO BE SHOWN ON THE PLANS.

DISTURBED AREA = 5.14 ACRES



LOCATION MAP - 1" = 1000'

OWNER:
MACALLAN CAPITAL, LLC
1642 POWERS FERRY ROAD, S.E.
SUITE 250
MARIETTA, GA. 30067

24-HOUR CONTACT:
JAMES L. RHODEN III
404-603-8833

APPROVAL STAMPS
NO COBB COUNTY APPROVAL STAMPS ON THIS PLAN SET ARE VALID
WITHOUT THE SIGNED SEAL OF THE DESIGN ENGINEER

APPROVED FOR EROSION CONTROL ONLY.
ALL EROSION & SEDIMENT DEVICES/BMP'S,
MUST BE INSTALLED PRIOR TO CONSTRUCTION
OF ANY BUILDING.

**APPROVED BY THE COBB COUNTY PLANNING
DESIGN/ZONING DIVISION**
Reviewed: 10-17-15
Note: Plans were reviewed under the
applicable zoning ordinance and all
this time. Any other was made to catch code
and/or violations, but this does not
relieve the owner of the responsibility to comply
with terms related or unknown to the reviewer.

Stormwater Management Division
Cobb County Water System
Approval signifies general plan conformance to the
Cobb County Code. Design Professional and Developer
remain solely responsible for design and for carrying
any and all errors, problems and code violations (if any)
expressed during construction AFTER authorization by
Cobb County.

**Approved for the Cobb County Cemetery
Preservation Commission**
By: Tug
Date: 10-17-15

APPROVED
Cobb DOT
OCT 19 2015
☒ Grading Only ☐ Revision
☒ Pending R/W
☐ Pending GDOT Permit

COBB COUNTY FIRE MARSHAL'S OFFICE
SITE APPROVAL ONLY
DATE: 10-19-2015 REP: BT
ANY VARIATION FROM THIS PLAN
SHALL REQUIRE REVISIONS
TO BE SUBMITTED & APPROVED
WWW.COBBFIRE.ORG

COBB COUNTY WATER SYSTEM
Approval shows or omissions do not
relieve Architect, Developer or
Contractor from compliance with
applicable codes and specifications
BY: T. Brown
DATE: 10-19-15

GSWCC GEORGIA SOIL AND WATER
CONSERVATION COMMISSION

Duane A. Hagerman
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000010465
ISSUED: 05/05/2009 EXPIRES: 07/27/17

TREE / LANDSCAPE PLAN APPROVAL

This plan is in compliance with all tree preservation
and/or landscaping requirements of the Cobb County
Code. If any changes must be made due to plant
availability, site conditions or other reasons a new plan
must be submitted to the Cobb County Tree/Landscape Site
Plan Review. Approval is given, and approved before the
changes are implemented. Failure to obtain the
necessary plan approval will result in a delay in the
final project approval.

MBS 10-19-15
Approved / Landscape Architect Date

Cobb County does not warrant the accuracy
of these plans. The user of these plans is
based on the information and representations
submitted by the licensed professional
and the user shall appear on these plans. Cobb County assumes no
liability or responsibility for the accuracy or
the representations and/or errors.

Relocation of all utilities shall be the
responsibility of the builder.

**COBB COUNTY
GEORGIA**
**APPROVED FOR
CONSTRUCTION**
BY
DEVELOPMENT AND
INSPECT CINS DEPT.

LAND DISTURBANCE PERMIT
NO. SPR 2015.00302
BY: BT
DATE: 10-19-15
Full
SITE

COBB COUNTY LAND DISTURBANCE PERMIT/BUILDING PERMITS MUST BE
DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW
FROM A COUNTY ROAD OR STREET.

NOTE:
A DEMOLITION PERMIT IS REQUIRED TO REMOVE THE EXISTING STRUCTURES.
CALL STRUCTURAL PLAN REVIEW FOR MORE INFORMATION.

Gaskins
PLANNING/CONSULTING
CONSTRUCTION MGMT
ENGINEERING
SURVEYING
1266 Powder Springs Road
Marietta, Georgia 30064
Phone: (770) 424-7168
Fax: (770) 424-7593
WWW.GASCSURVEY.COM

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EMERSON MANOR
SUBDIVISION

LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
COBB COUNTY, GEORGIA
ZONED R-15

REVISIONS			
REV.	DATE	REVISION	REFERENCE
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SHEET TITLE
COVER SHEET

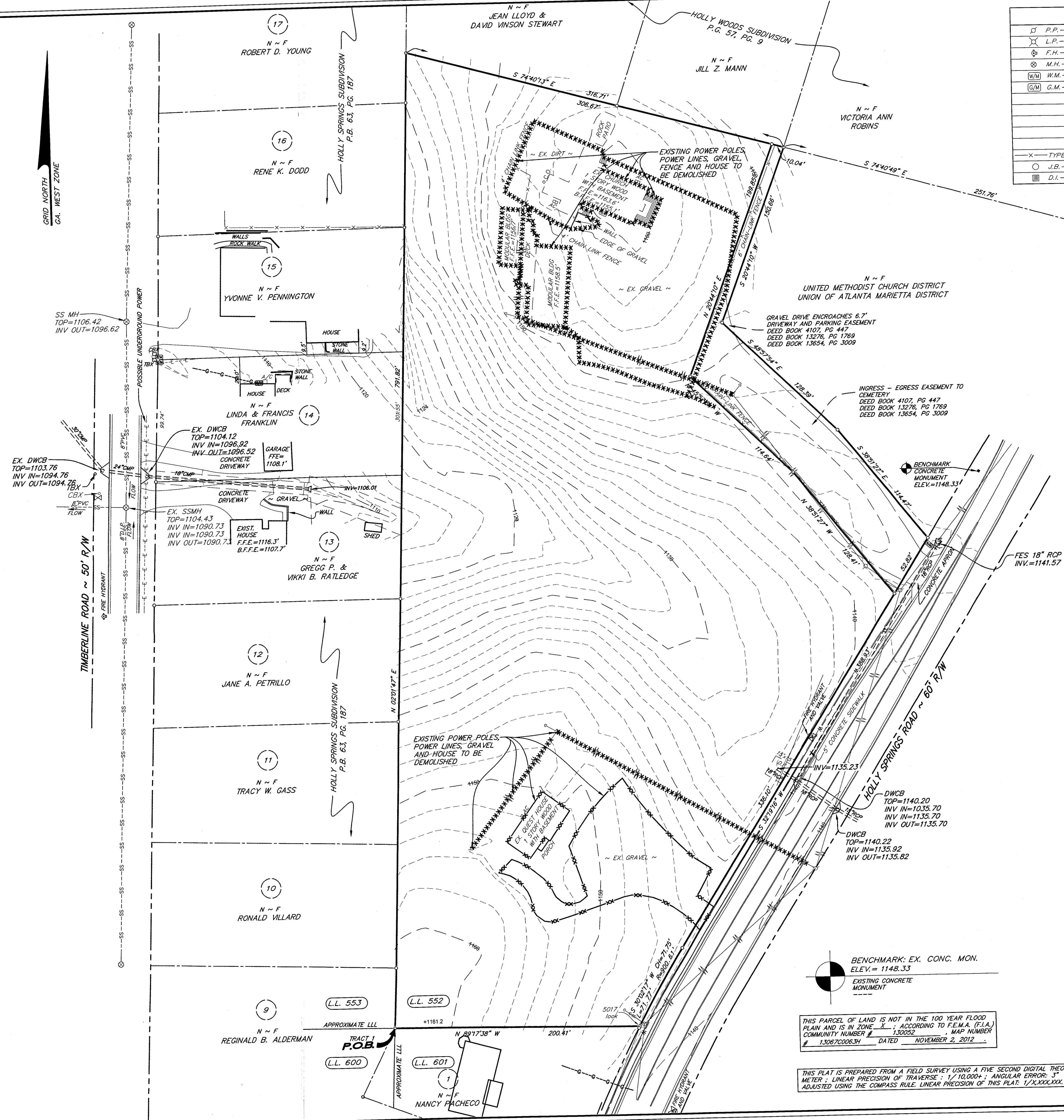
SEAL

REGISTERED PROFESSIONAL ENGINEER
DUANE A. HAGERMAN
GaSWCC #10465

PROJECT I.D. 1502041 FIELD BOOK FIELD
DRAWN BY ASH CHECKED BY DH
SCALE N.T.S. ISSUE DATE 10/19/15
SHEET NUMBER 1

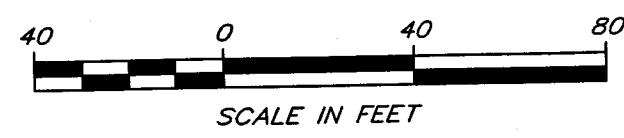


GRID NORTH
GA. WEST ZONE



OWNER/DEVELOPER:
MACALLAN CAPITAL, LLC
1642 POWERS FERRY ROAD, S.E.
SUITE 250
MARIETTA, GA. 30067

24 HR. PHONE & EMERGENCY CONTACT:
JAMES L. RHODEN III
404-603-8833



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SHEET TITLE
EXISTING CONDITION &
DEMOLITION PLAN

SEAL

GaSWCC #10465

PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE 1"=40'	ISSUE DATE 10/19/15
SHEET NUMBER 2	

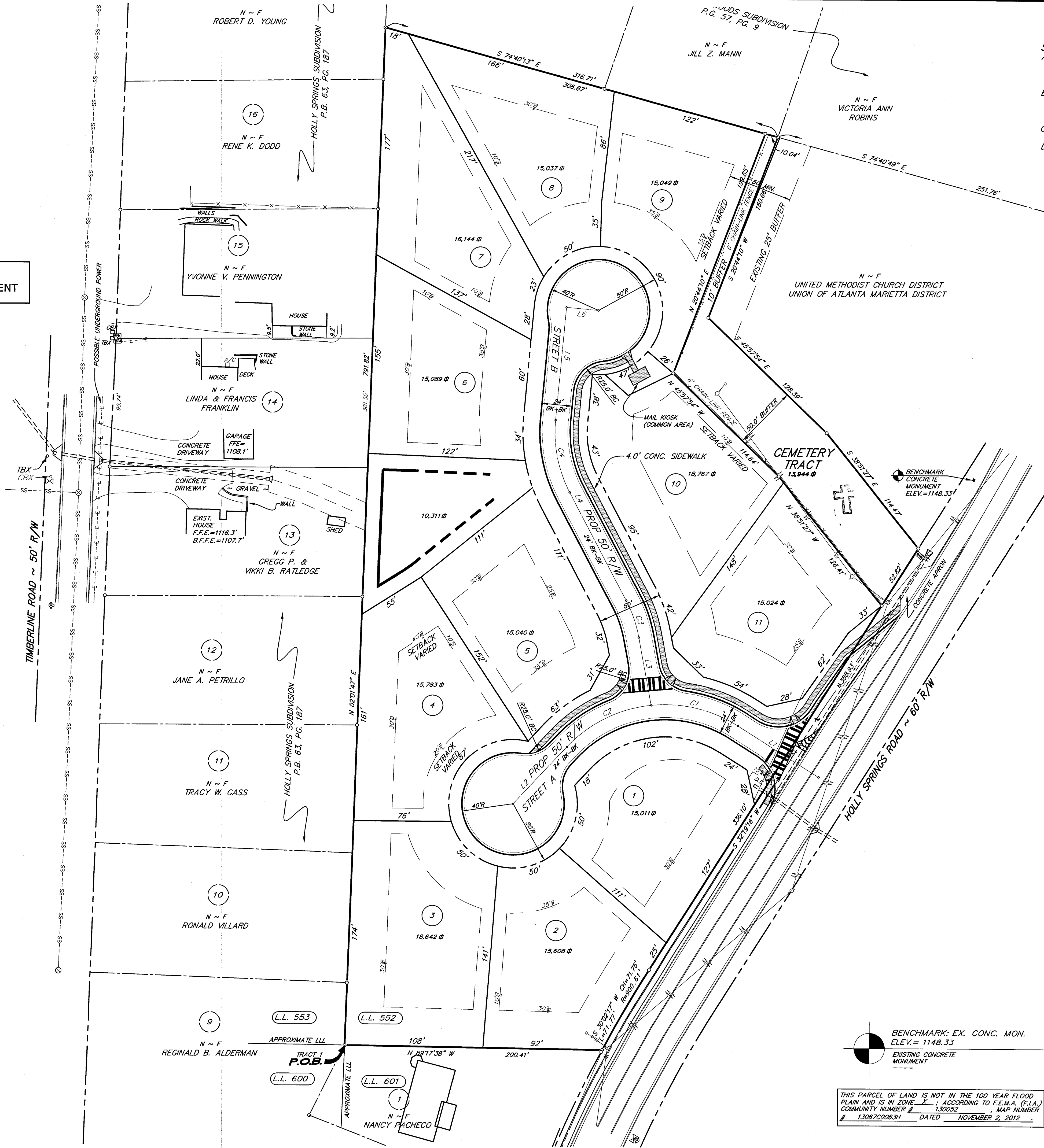
ISSUED FOR CONSTRUCTION



Know what's below.
Call before you dig.

NO STREET PARKING HAS BEEN
APPROVED FOR THIS DEVELOPMENT

GRID NORTH
GA. WEST ZONE



STREETLIGHT REQUIREMENTS FOR NEW SUBDIVISIONS
A. IN ACCORDANCE WITH THE COBB COUNTY STREET LIGHTING ORDINANCE, SECTION 3-23-41, STREETLIGHTS ARE REQUIRED TO BE PROVIDED BY THE DEVELOPERS OF ALL NEW SUBDIVISIONS.
B. THE DEVELOPER SHALL SUBMIT A STREET LIGHT LAYOUT PREPARED BY THE UTILITY COMPANY, WHICH WILL PROVIDE THE LIGHTING SERVICE SHOWING EXACT LOCATION OF STREETLIGHTS WITHIN THE SUBDIVISION.
C. THE LIGHTING LAYOUT MUST BE APPROVED BY THE DEPARTMENT OF TRANSPORTATION.
D. THE DEVELOPER MUST PAY ALL COSTS TO THE POWER COMPANY FOR POLES, FIXTURES, AND ANY OTHER RELATED ITEMS OR MATERIALS NECESSARY FOR THE INSTALLATION.

SIGNAGE FEE:
STREET SIGNAGE IS INSTALLED BY C.D.O.T. WITH FUNDING PROVIDED TO D.O.T. DEVELOPMENT SERVICES BY THE DEVELOPER. IF AESTHETIC SIGNAGE IS REQUESTED, THE DEVELOPER SHALL ALSO SUBMIT FOR AESTHETIC SIGN PERMIT THRU D.O.T. OPERATIONS. THE DEVELOPER IS TO SUBMIT A FINAL PLAN, WITH STREET NAMES PRIOR TO FINAL PLATTING. ONE WEEK NOTICE IS NEEDED TO REVIEW AND ESTIMATE FEES. AFTER FEE PAYMENT AND A RECORDED DAY IS RECEIVED BY DEVELOPMENT SERVICES, 10 WORKING DAYS IS NEEDED FOR INSTALLATION. NO BUILDING PERMITS ARE TO BE ISSUED WITHOUT SIGNAGE INSTALLED.

FIRE SIGNAGE:
NON-STANDARD FEATURES, SIGNAGE, STRIPING PLACED/MAINTAINED BY THE HOA IN THE R/W, MAY BE REMOVED PERMANENTLY BY D.O.T. OR UTILITY WITHOUT CAUSE/WARNING AT ANY TIME. RESULT MAY CAUSE HOA TO FIND ALTERNATIVE COMPLIANCE TO FIRE MARSHAL REGULATIONS.

GENERAL SITE NOTES:
1. SITE AREA = 5.14 AC.
2. ZONING: R-15
3. TOTAL LOTS SHOWN = 11
4. PROPOSED DENSITY = 2.14 UNITS/AC.
5. MIN. LOT SIZE = 15,000 S.F.
6. MINIMUM FRONTAGE: 50' (35' CUL-DE-SAC)
7. BUILDING SETBACKS: AS SHOWN

OWNER/DEVELOPER:
MACALLAN CAPITAL, LLC
1642 POWERS FERRY ROAD, S.E.
SUITE 250
MARIETTA, GA. 30067

24 HR. PHONE & EMERGENCY CONTACT:
JAMES L. RHODEN III
404-603-8833

BENCHMARK: EX. CONC. MON.
ELEV. = 1148.33
EXISTING CONCRETE MONUMENT
THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD PLAIN AND IS IN ZONE X-1, ACCORDING TO F.E.M.A. (F.I.A.)
COMMUNITY NUMBER 130052 MAP NUMBER 13067C0063H DATED NOVEMBER 2, 2012

40 0 40 80
SCALE IN FEET

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LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
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SHEET TITLE
SITE PLAN

SEAL

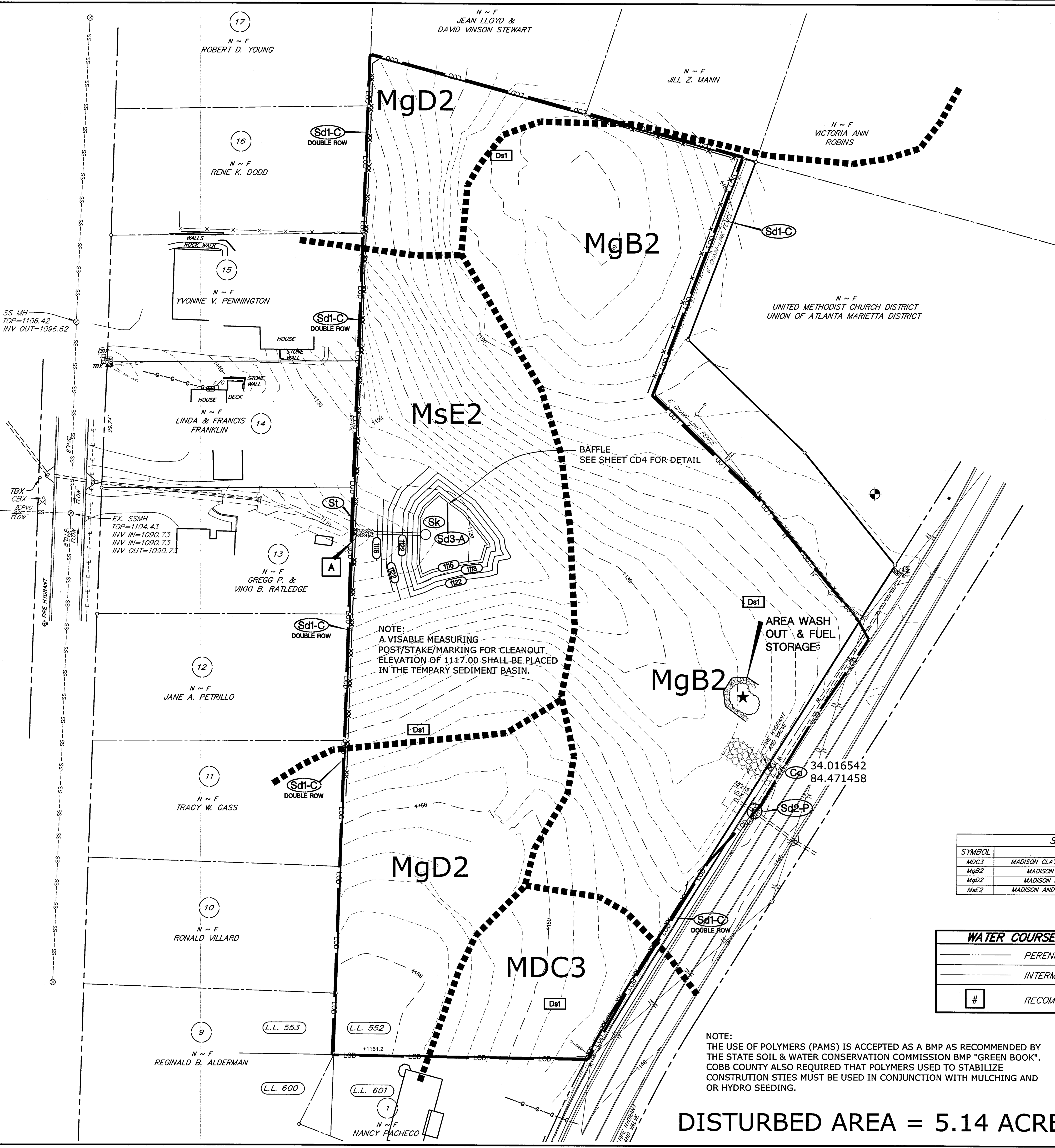
GEORGIA REGISTERED PROFESSIONAL ENGINEER
JAMES A. HAGEN
No. 033634

GaSWCC #10465

PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE 1"=40'	DATE 10/19/15
SHEET NUMBER 3	

Plotted By: shuphes Drawing name: P:\Vacation Group\Hwy Springs Rd Tract - 1502041\Engineering\Submittal\MSR\EROSION.dwg Plotted on: Oct 19, 2015 - 9:25am

EROSION PLAN LEGEND	
LIMITS OF DISTURBANCE	LOD
ACTIVE TREE PROTECTION ORANGE TREE FENCE	T-T
ROCK DAM	Rd
CHECK DAM	Cd
CHANNEL STABILIZATION W/ RIP-RAP	Ch-Rp
HEADWALL ST	St
HEADWALL RI	Ri
SILT FENCE BRUSH BARRIER	Sd1-Bb
SILT FENCE TYPE "S" OR "NS" SINGLE ROW	Sd1-S
SILT FENCE TYPE "S" OR "NS" DOUBLE ROW	Sd1-S
SILT TRAP	Sd2
TEMPORARY SEDIMENT BASIN	Sd3
CONSTRUCTION EXIT	Co
DIVERSION	Di
TEMPORARY DOWN DRAIN	Dn1
RETAINING WALL	Re
DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	Ds2
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	Ds3
SLOPE STABILIZATION	Ss



- EROSION CONTROL NOTES:**
1. FOR DS1 - SITE SPECIFIC MULCHING RATES, SEE SHEET CD3
 2. FOR DS2 - SITE SPECIFIC PLANTINGS FOR TEMPORARY SEEDING AND FERTILIZER RATES, SEE SHEET CD3
 3. FOR DS3 - SITE SPECIFIC PLANTINGS FOR PERMANENT SEEDING AND FERTILIZER RATES, SEE SHEET CD3



SOILS LEGEND	
SYMBOL	DESCRIPTION
MDC3	MADISON CLAY LOAM, 6-10% SLOPES, SEVERELY ERODED
MgB2	MADISON SANDY LOAM, 2-6% SLOPES, ERODED
MgD2	MADISON SANDY LOAM, 10-15% SLOPES, ERODED
MSE2	MADISON AND PACOLET SOILS, 15-25% SLOPES, ERODED

WATER COURSE EVALUATION LEGEND	
PERENNIAL STREAM	
INTERMITTENT STREAM	
RECOMMENDED MONITORING SITE	#

NOTE:
THE USE OF POLYMERS (PAMS) IS ACCEPTED AS A BMP AS RECOMMENDED BY THE STATE SOIL & WATER CONSERVATION COMMISSION BMP "GREEN BOOK". COBB COUNTY ALSO REQUIRED THAT POLYMERS USED TO STABILIZE CONSTRUCTION STIES MUST BE USED IN CONJUNCTION WITH MULCHING AND OR HYDRO SEEDING.

DISTURBED AREA = 5.14 ACRES



24 HR. PHONE & EMERGENCY CONTACT:
JAMES L. RHODEN III
404-603-8833

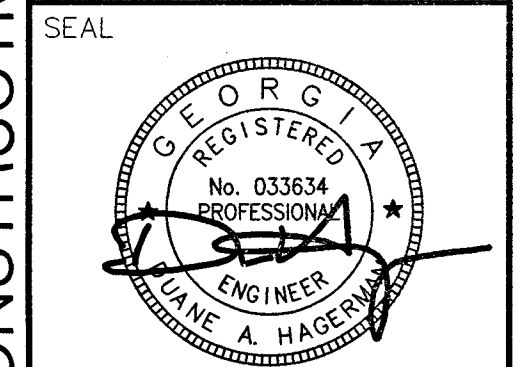
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ZONED R-15

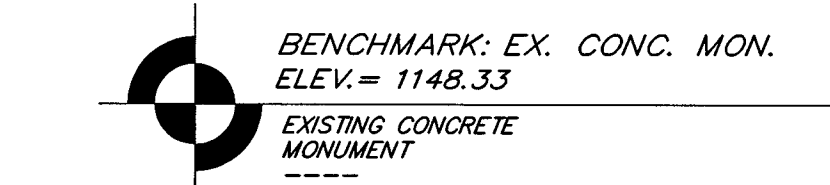
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SHEET TITLE
**EROSION CONTROL -
PHASE 1 - CLEARING &
GRUBBING PLAN**



PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE 1"=40'	ISSUE DATE 10/19/15
SHEET NUMBER FOR CONSTRUCTION 4	

ISSUED FOR CONSTRUCTION



THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD
PLAIN AND IS IN ZONE X-; ACCORDING TO F.E.M.A. (F.I.A.)
COMMUNITY NUMBER 130052, MAP NUMBER
1306720063H DATED NOVEMBER 2, 2012

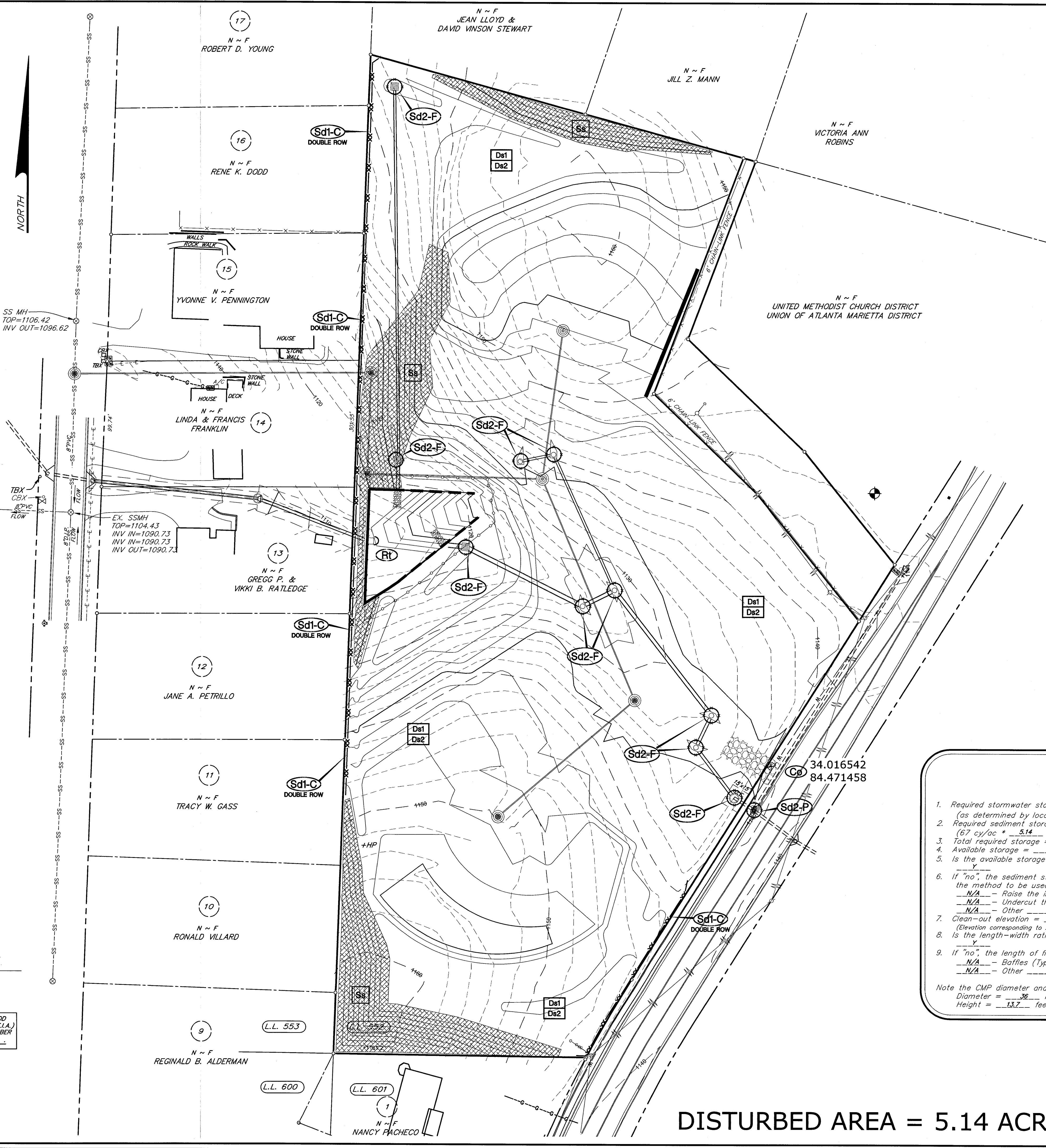


Plotted on: Oct. 19, 2015 - 9:25am
Drawing name: P:\Vacation Group\Holly Springs Rd Tract - 1502041\Engineering\Summit\HSP EROSION.dwg
Plotted by: shughes

EROSION PLAN LEGEND	
LIMITS OF DISTURBANCE	LOD
ACTIVE TREE PROTECTION ORANGE TREE FENCE	T-T
ROCK DAM	Rd
CHECK DAM	Cd
CHANNEL STABILIZATION W/ RIP-RAP	Ch-Rp
HEADWALL S1	St
HEADWALL R1	Rt
SILT FENCE BRUSH BARRIER	Sd1-Bb
SILT FENCE TYPE 'S' OR 'NS' SINGLE ROW	Sd1-S
SILT FENCE TYPE 'S' OR 'NS' DOUBLE ROW	Sd1-S
SILT TRAP	Sd2
TEMPORARY SEDIMENT BASIN	Sd3
CONSTRUCTION EXIT	Co
DIVERSION	Di
TEMPORARY DOWN DRAIN	Dn1
RETAINING WALL	Re
DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	Ds2
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	Ds3
SLOPE STABILIZATION	Ss

BENCHMARK: EX. CONC. MON.
ELEV. = 1148.33
EXISTING CONCRETE
MONUMENT

THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD
PLAIN AND IS IN ZONE X, ACCORDING TO F.E.M.A. (F.I.A.)
COMMUNITY NUMBER 130052, MAP NUMBER
13067C0063H DATED NOVEMBER 2, 2012.



- EROSION CONTROL NOTES:**
1. FOR DS1 - SITE SPECIFIC MULCHING RATES, SEE SHEET CD3
 2. FOR DS2 - SITE SPECIFIC PLANTINGS FOR TEMPORARY SEEDING AND FERTILIZER RATES, SEE SHEET CD3
 3. FOR DS3 - SITE SPECIFIC PLANTINGS FOR PERMANENT SEEDING AND FERTILIZER RATES, SEE SHEET CD3

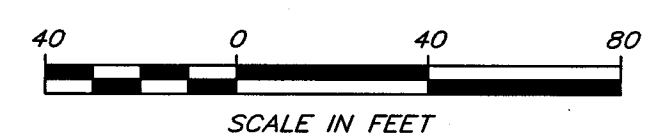
Rt-A
Storage Calculations

1. Required stormwater storage = 1365 cy
(as determined by local ordinance)
2. Required sediment storage cy
(67 cy/ac * 5.14 ac disturbed area)
3. Total required storage = 344 + 1365 = 1709 cy
4. Available storage = 1841 cy
5. Is the available storage (4) greater than the total required storage (3)?
Y
6. If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:
N/A - Raise the invert of the outlet structure N/A inches
N/A - Undercut the pond N/A feet
N/A - Other N/A
7. Clean-out elevation = 1115.4 ft
(Elevation corresponding to 22 cy/ac * 5.14 ac disturbed area)
8. Is the length-width ratio 2:1 or greater?
Y
9. If "no", the length of flow must be increased. Choose the method to be used:
N/A - Baffles (Type of baffle: N/A N/A)
N/A - Other N/A

Note the CMP diameter and height if a half-round CMP retrofit is to be used.
Diameter = 36 inches
Height = 13.7 feet

24 HR. PHONE & EMERGENCY CONTACT:
JAMES L. RHODEN III
404-603-8833

DISTURBED AREA = 5.14 ACRES



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SHEET TITLE
**EROSION CONTROL -
PHASE 2 - TEMPORARY
GRAING & VEGETATION
PLAN**

SEAL

GaSWCC #10465

PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE 1"=40'	ISSUE DATE 10/19/15
SHEET NUMBER 5	

Plotted By: shugrue
Drawing name: F:\Marathon Group\Hwy Springs Rd Tract - 1502041\Engineering\Submittal\1502 EROS.dwg
Plotted on: Oct 19, 2015 - 9:20am

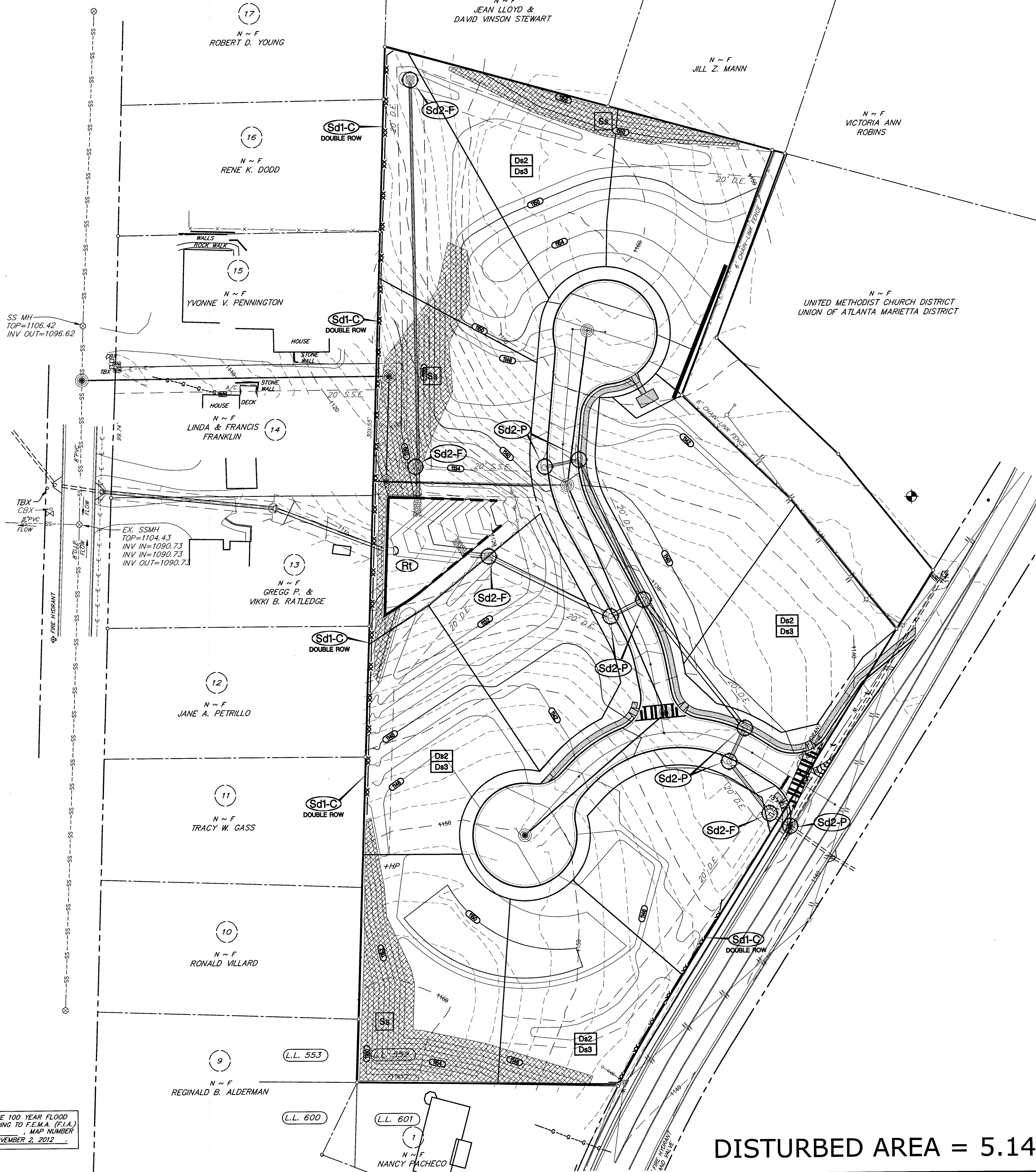
EROSION PLAN LEGEND	
LIMITS OF DISTURBANCE	LOD
ACTIVE TREE PROTECTION ORANGE TREE FENCE	T
ROCK DAM	Rd
CHECK DAM	Cd
CHANNEL STABILIZATION W/ RIP-RAP	Ch-Rp
HEADWALL S1	St
HEADWALL R1	Rt
SILT FENCE BRUSH BARRIER	Sd1-Bb
SILT FENCE TYPE 'S' OR 'NS' SINGLE ROW	Sd1-S
SILT FENCE TYPE 'S' OR 'NS' DOUBLE ROW	Sd1-S
SILT TRAP	Sd2
TEMPORARY SEDIMENT BASIN	Sd3
CONSTRUCTION EXIT	Co
DIVERSION	DI
TEMPORARY DOWN DRAIN	Dn1
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DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Ds1
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DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	Ds3
SLOPE STABILIZATION	Ss

BENCHMARK: EX. CONC. MON.
ELEV. = 1148.33
EXISTING CONCRETE
MONUMENT



Know what's below.
Call before you dig.

THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD
PLAIN AND IS IN ZONE "X"; ACCORDING TO F.E.M.A. (F.I.A.)
COMMUNITY NUMBER # 130052 MAP NUMBER
130670063H DATED NOVEMBER 2, 2012



- EROSION CONTROL NOTES:**
1. FOR DS1 - SITE SPECIFIC MULCHING RATES, SEE SHEET CD3
 2. FOR DS2 - SITE SPECIFIC PLANTINGS FOR TEMPORARY SEEDING AND FERTILIZER RATES, SEE SHEET CD3
 3. FOR DS3 - SITE SPECIFIC PLANTINGS FOR PERMANENT SEEDING AND FERTILIZER RATES, SEE SHEET CD3

NORTH

DISTURBED AREA = 5.14 ACRES

24 HR. PHONE & EMERGENCY CONTACT:
JAMES L. RHODEN III
404-603-8833

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SUBDIVISION
LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
COBB COUNTY, GEORGIA
ZONED R-15

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REV.	DATE	REVISION REFERENCE
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SHEET TITLE
EROSION CONTROL -
PHASE 3 - PERMANENT
GRADING &
VEGETATION PLAN

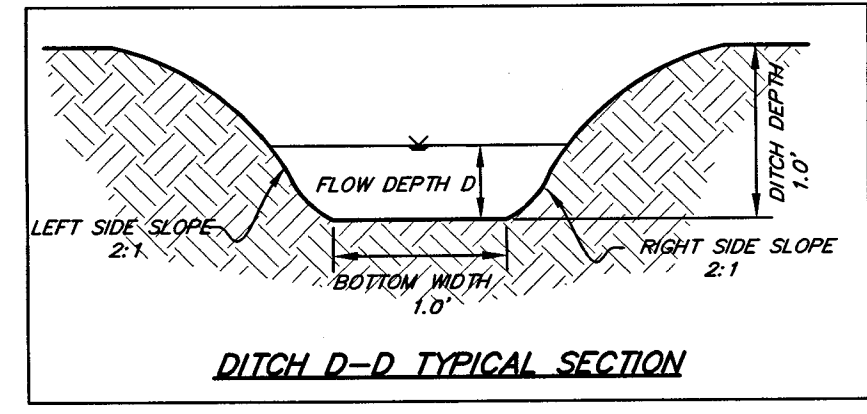
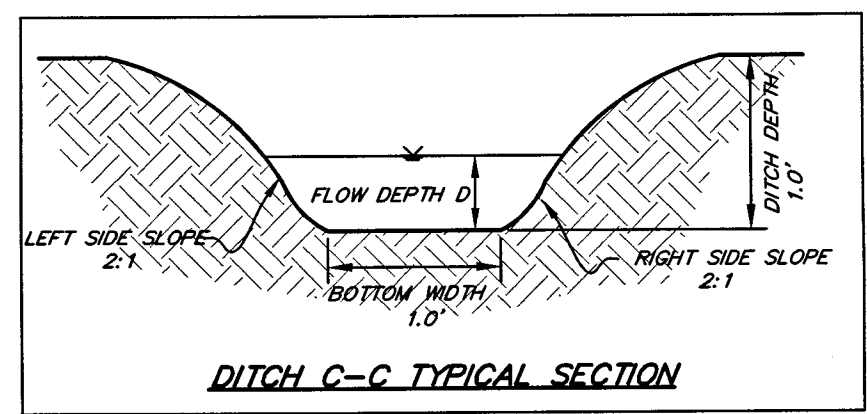
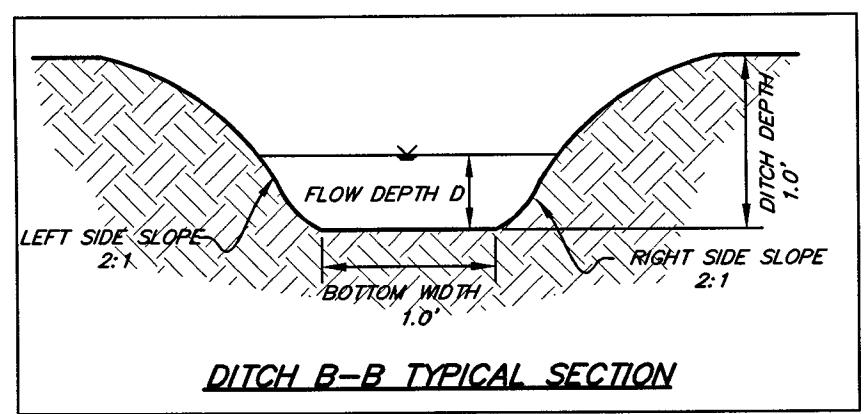
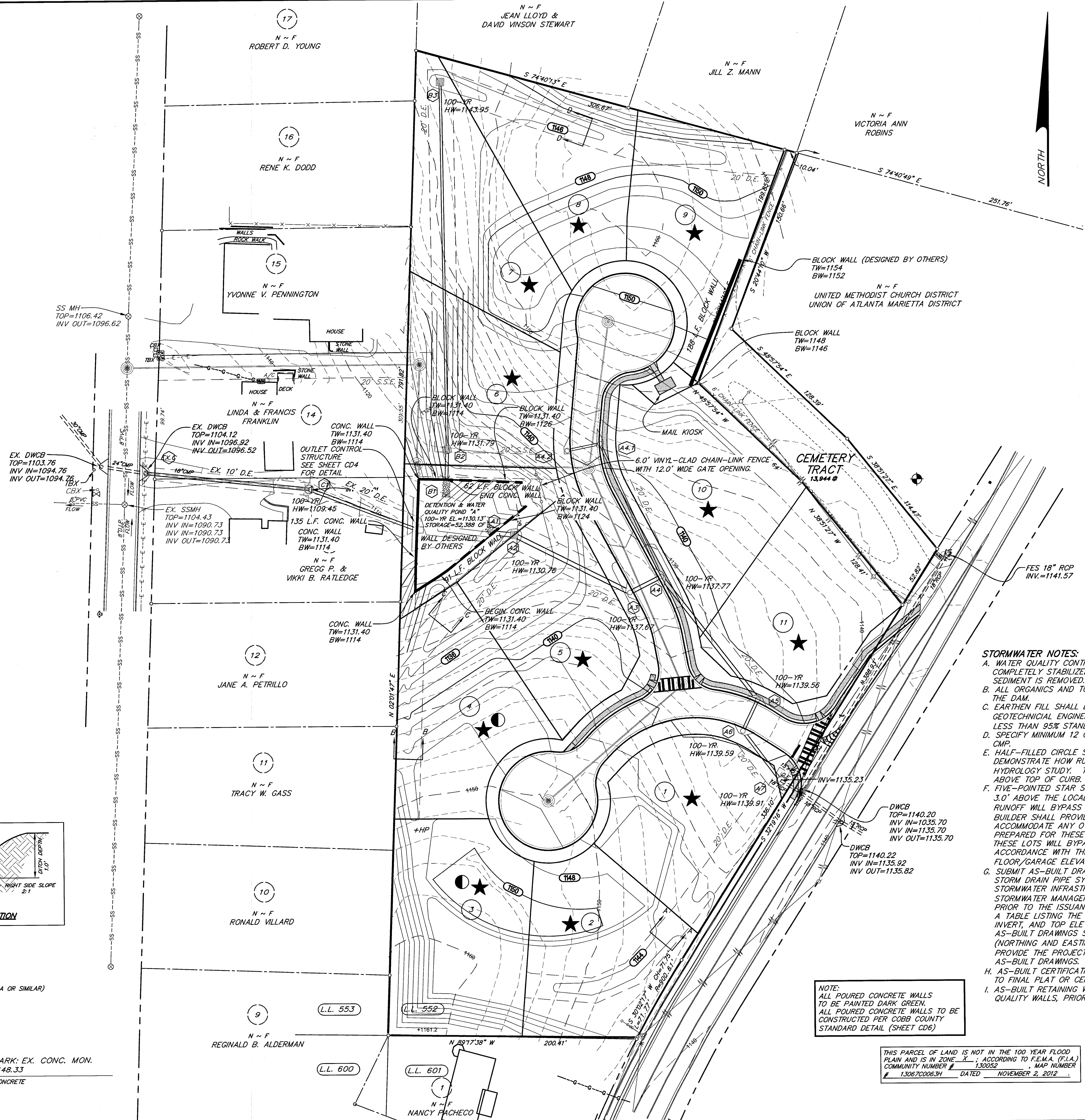
SEAL

GA SWCC #10465

PROJECT I.D.	FIELD BOOK
1502041	FIELD
DRAWN BY	CHECKED BY
ASH	DH
SCALE	ISSUE DATE
1"=40'	10/19/15
SHEET NUMBER	APPROVED FOR CONSTRUCTION
6	

STORM DRAIN LEGEND	
HEADWALL	D
FLARED END SECTION	D
DROP INLET	D
SINGLE WING CATCH BASIN	D
DOUBLE WING CATCH BASIN	D
JUNCTION BOX	O
WEIR-SQUARE STRUCTURE	D
WEIR-CIRCULAR STRUCTURE	O

PROPOSED STRUCTURES ARE BOLD.
EXISTING STRUCTURES ARE LIGHT.

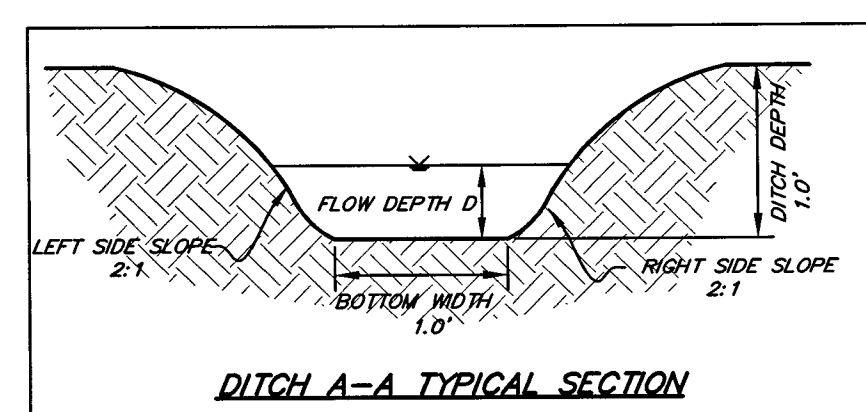


- STORMWATER NOTES:**
- WATER QUALITY CONTROL DEVICE TO BE INSTALLED ONLY AFTER SITE IS COMPLETELY STABILIZED AND TEMPORARY SEDIMENT FILTER AND ACCUMULATED SEDIMENT IS REMOVED.
 - ALL ORGANICS AND TOP SOIL SHALL BE REMOVED FROM THE ENTIRE FOOTPRINT OF THE DAM.
 - EARTHEN FILL SHALL BE CL OR ML MATERIAL APPROVED FOR USE THE GEOTECHNICAL ENGINEER (P.E.) AND PLACED IN 6" LIFTS AND COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR UNDER SAID ENGINEER'S DIRECTION.
 - SPECIFY MINIMUM 12 GAUGE BCCMP OR MINIMUM 14 GAUGE TYPE 2 ALUMINIZED CMP.
 - HALF-FILLED CIRCLE SYMBOL: INDIVIDUAL SITE PLANS MUST BE PREPARED TO DEMONSTRATE HOW RUNOFF WILL BE DIRECTED IN ACCORDANCE WITH THE HYDROLOGY STUDY. THE HOMES FIRST FLOOR/GARAGE ELEVATION MUST BE 1.0' ABOVE TOP OF CURB.
 - FIVE-POINTED STAR SYMBOL: THE MINIMUM FLOOR ELEVATION SHALL BE AT LEAST 3.0' ABOVE THE LOCAL 100 YEAR HEADWATER POOL ELEVATION(S), UNLESS POOLING RUNOFF WILL BYPASS THE BUILDING WITH 1.0' OF FREEBOARD PROTECTION. BUILDER SHALL PROVIDE AN ADEQUATE SWALE BETWEEN/BEHIND THE HOUSES TO ACCOMMODATE ANY OVERFLOWS FROM THE INLET. INDIVIDUAL SITE PLANS MUST BE PREPARED FOR THESE LOTS TO DEMONSTRATE HOW OVERFLOWS FROM INLETS AT THESE LOTS WILL BYPASS THE BUILDINGS AND HOW RUNOFF WILL BE DIRECTED IN ACCORDANCE WITH THE APPROVED HYDROLOGY STUDY. THE HOMES FIRST FLOOR/GARAGE ELEVATION MUST BE 1.0' ABOVE THE TOP OF CURB.
 - SUBMIT AS-BUILT DRAWINGS OF DAM/WELLS, OUTLET CONTROL STRUCTURE AND STORM DRAIN PIPE SYSTEM TO COBB SHM. ALL AS-BUILT SURVEYS OF STORMWATER INFRASTRUCTURES MUST BE SUBMITTED TO COBB COUNTY STORMWATER MANAGEMENT (770-419-6435) PRIOR TO FINAL PLAT APPROVAL, OR PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR COMMERCIAL SITES. A TABLE LISTING THE STRUCTURE NAME, NORTHING, EASTING, PIPE MATERIAL, INVERT, AND TOP ELEVATIONS FOR EACH STRUCTURE MUST BE INCLUDED ON THE AS-BUILT DRAWINGS SUBMITTED TO COBB COUNTY STORMWATER MANAGEMENT. (NORTHING AND EASTING SHOULD BE BASED ON STATE PLANE COORDINATE SYSTEM). PROVIDE THE PROJECT LAND DISTURBANCE PERMIT (LDP) NUMBER ON THE AS-BUILT DRAWINGS.
 - AS-BUILT CERTIFICATION IS REQUIRED FOR DETENTION/WATER QUALITY POND, PRIOR TO FINAL PLAT OR CERTIFICATE OF OCCUPANCY.
 - AS-BUILT RETAINING WALL CERTIFICATION IS REQUIRED FOR ALL DETENTION/WATER QUALITY WALLS, PRIOR TO FINAL PLAT APPROVAL OR CERTIFICATE OF OCCUPANCY.

NOTE:
ALL POURED CONCRETE WALLS
TO BE PAINTED DARK GREEN.
ALL POURED CONCRETE WALLS TO BE
CONSTRUCTED PER COBB COUNTY
STANDARD DETAIL (SHEET CD6)

THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD
PLAIN AND IS IN ZONE X, ACCORDING TO F.E.M.A. (F.I.A.)
COMMUNITY NUMBER 130052 MAP NUMBER
1306700063H DATED NOVEMBER 2, 2012

24 HR. PHONE & EMERGENCY CONTACT:
JAMES L. RHODEN III
404-603-8833



BENCHMARK: EX. CONC. MON.
ELEV. = 1148.33
EXISTING CONCRETE
MONUMENT



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EMERSON MANOR
SUBDIVISION
LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
COBB COUNTY, GEORGIA
ZONED R-15

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SHEET TITLE
**GRADING AND
DRAINAGE PLAN**

ISSUED FOR CONSTRUCTION

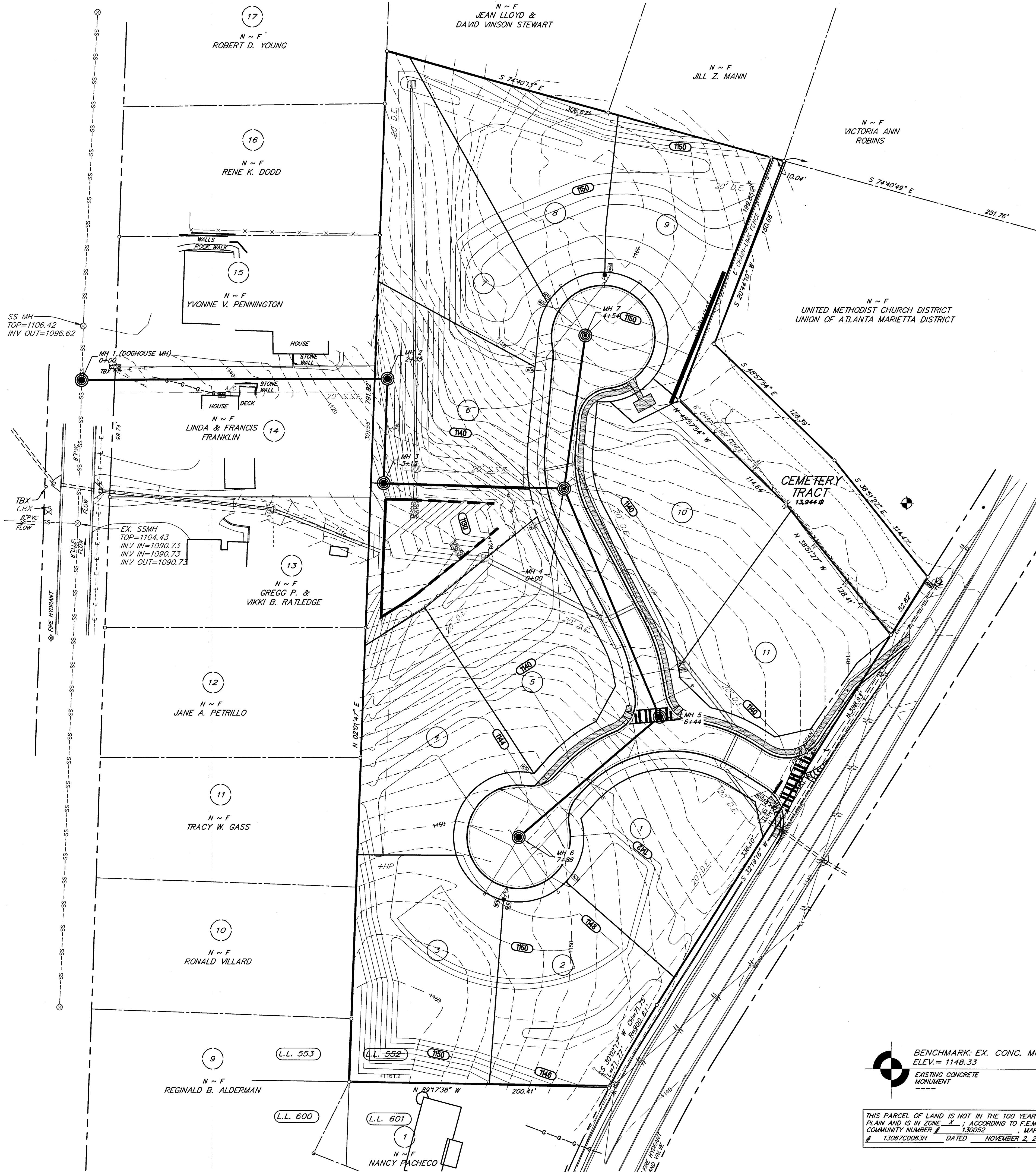
SEAL

REGISTERED PROFESSIONAL ENGINEER
JAMES A. HAGEGE
No. 033634

GaSWCC #10465

PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE 1"=40'	ISSUE DATE 10/19/15
SHEET NUMBER 7	

SANITARY SEWER LEGEND	
EXISTING SANITARY SEWER LINE	---SS---
EXISTING MANHOLE	---S---S---
PROPOSED MANHOLE	---S---S---
FLOW ARROW	---S---S---
CLEAN OUT	○C.O.



NO STREET PARKING HAS BEEN
APPROVED FOR THIS DEVELOPMENT

NOTE:
SANITARY SEWER BETWEEN MH1 AND MH2
TO BE JACK AND BORED OR OPEN CUT

BENCHMARK: EX. CONC. MON.
ELEV. = 1148.33

EXISTING CONCRETE MONUMENT

THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD PLAIN AND IS IN ZONE X, ACCORDING TO F.E.M.A. (F.L.A.) COMMUNITY NUMBER 130052 MAP NUMBER 13067C0063H DATED NOVEMBER 2, 2012

24 HR. PHONE & EMERGENCY CONTACT:
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SCALE IN FEET

0 40 80

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SHEET TITLE
SEWER PLAN

SEAL

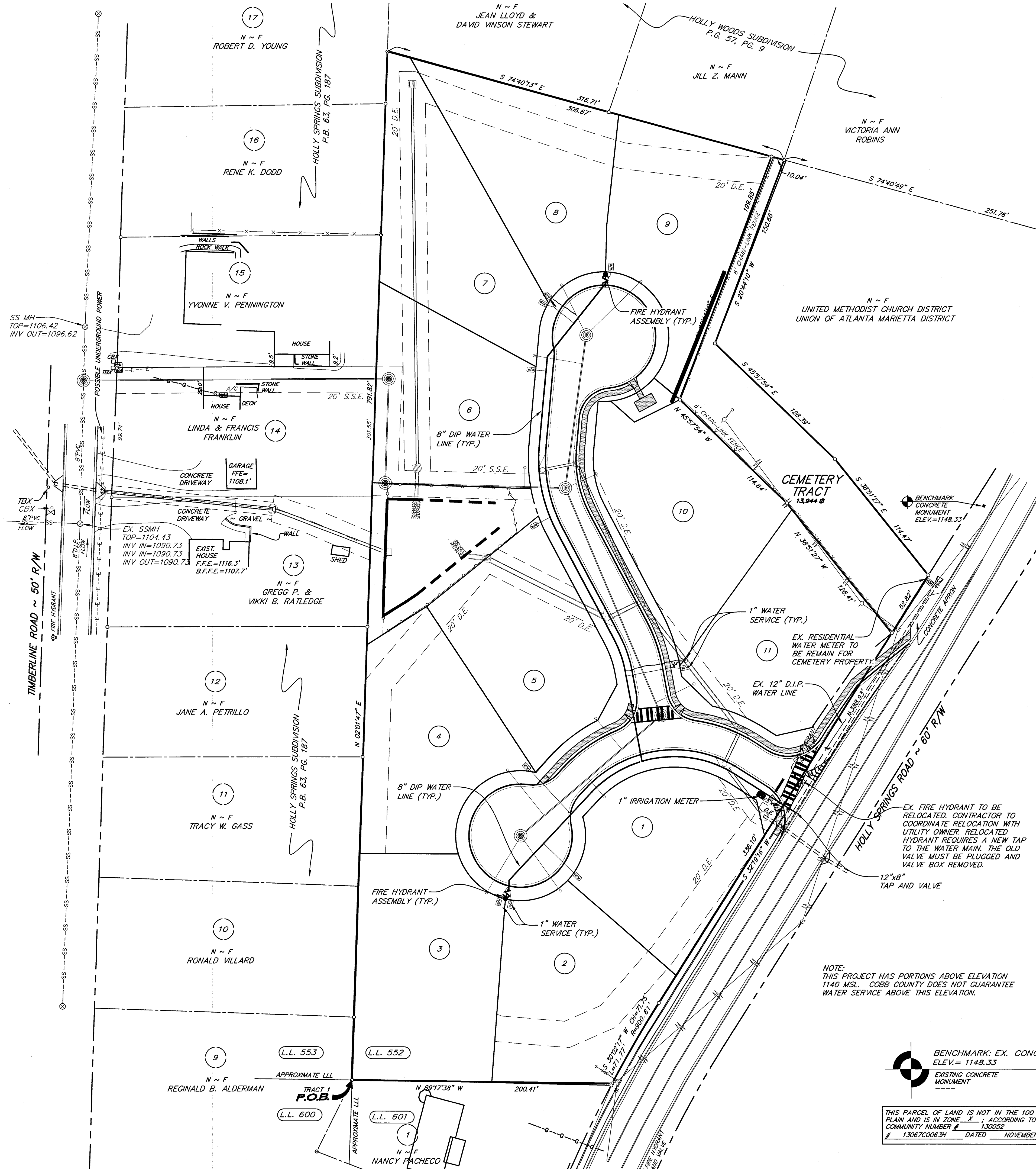
GEORGIA REGISTERED PROFESSIONAL ENGINEER
JAMES A. HAGNER
GaSWCC #10465

PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE 1"=40'	ISSUE DATE 10/19/15
SHEET NUMBER 8	



ISSUED FOR CONSTRUCTION

WATER PLAN LEGEND	
EXISTING WATER LINE	—W—W—W—
EXISTING FIRE HYDRANT	⊙
PROPOSED FIRE HYDRANT	⊙
SHORT SIDE SERVICE	⌋
LONG SIDE SERVICE IN 2" CONDUIT (TYP.)	⌋
PLUG	⌋
GATE VALVE	⌋
THRUST BLOCK	⌋
CONCRETE COLLAR	⌋



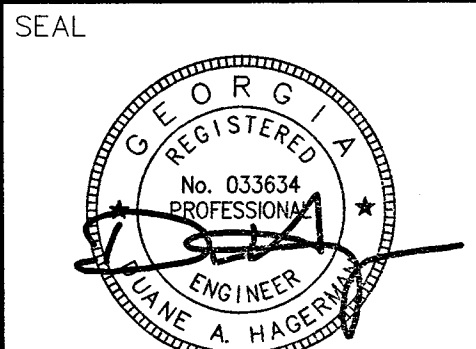
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SHEET TITLE
WATER PLAN



PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE 1"=40'	ISSUE DATE 10/19/15
SHEET NUMBER 9	

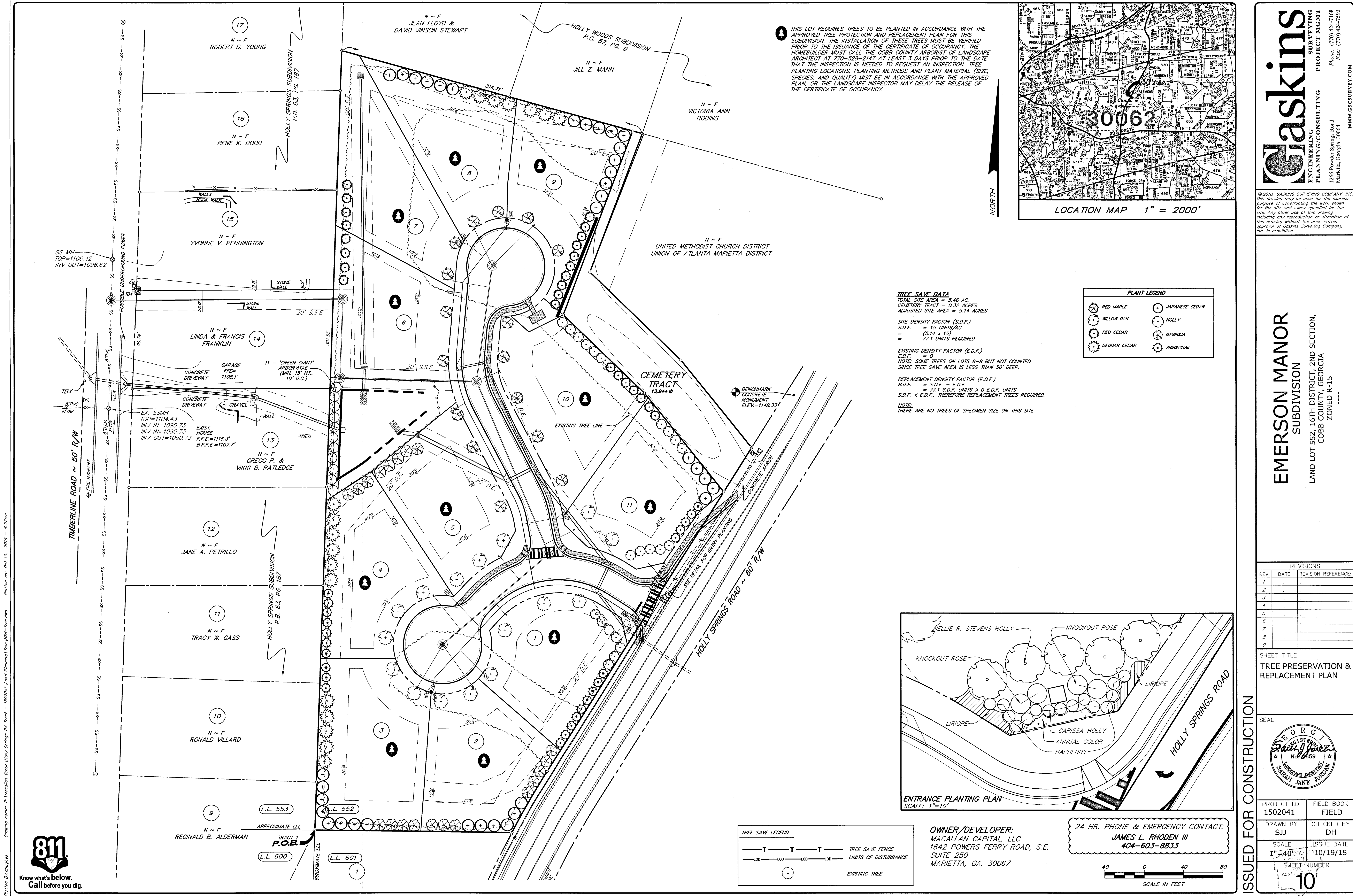
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404-603-8833

BENCHMARK: EX. CONC. MON.
ELEV. = 1148.33
EXISTING CONCRETE MONUMENT
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CCWS

ISSUED FOR CONSTRUCTION

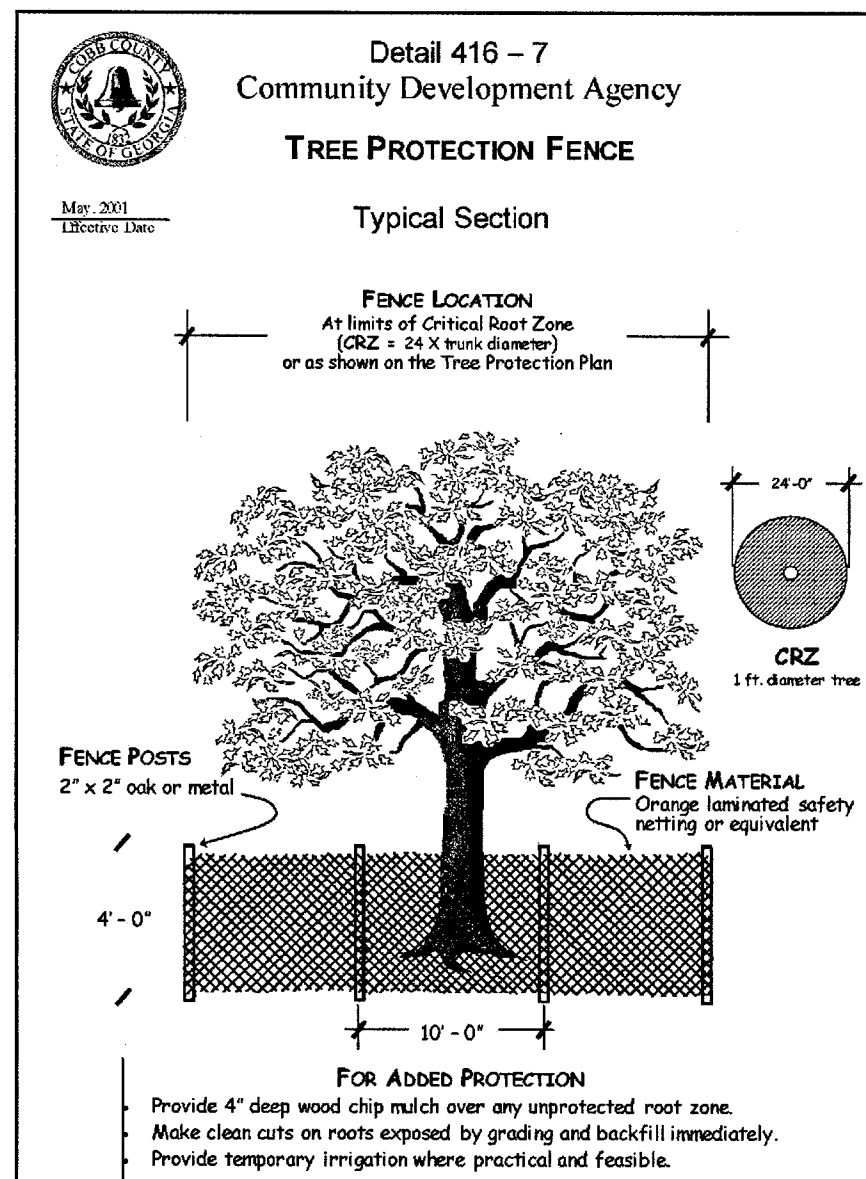
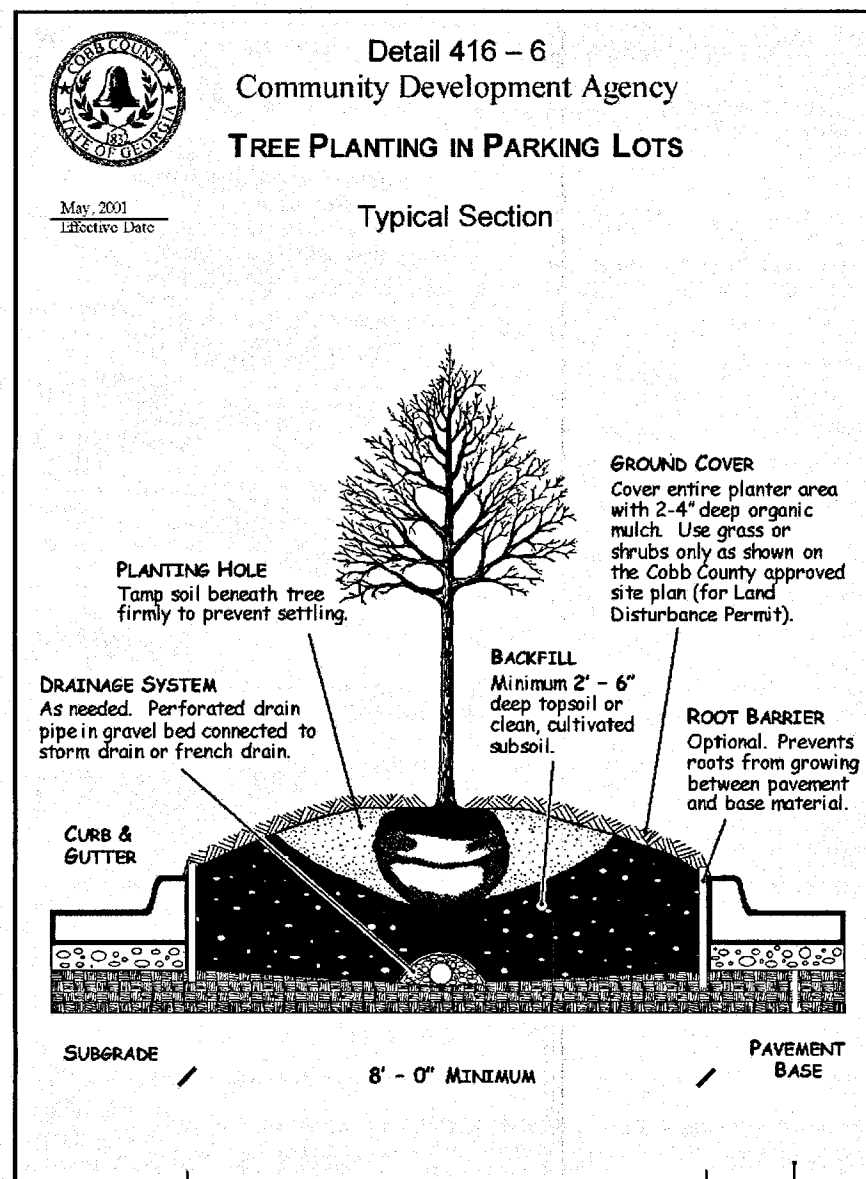
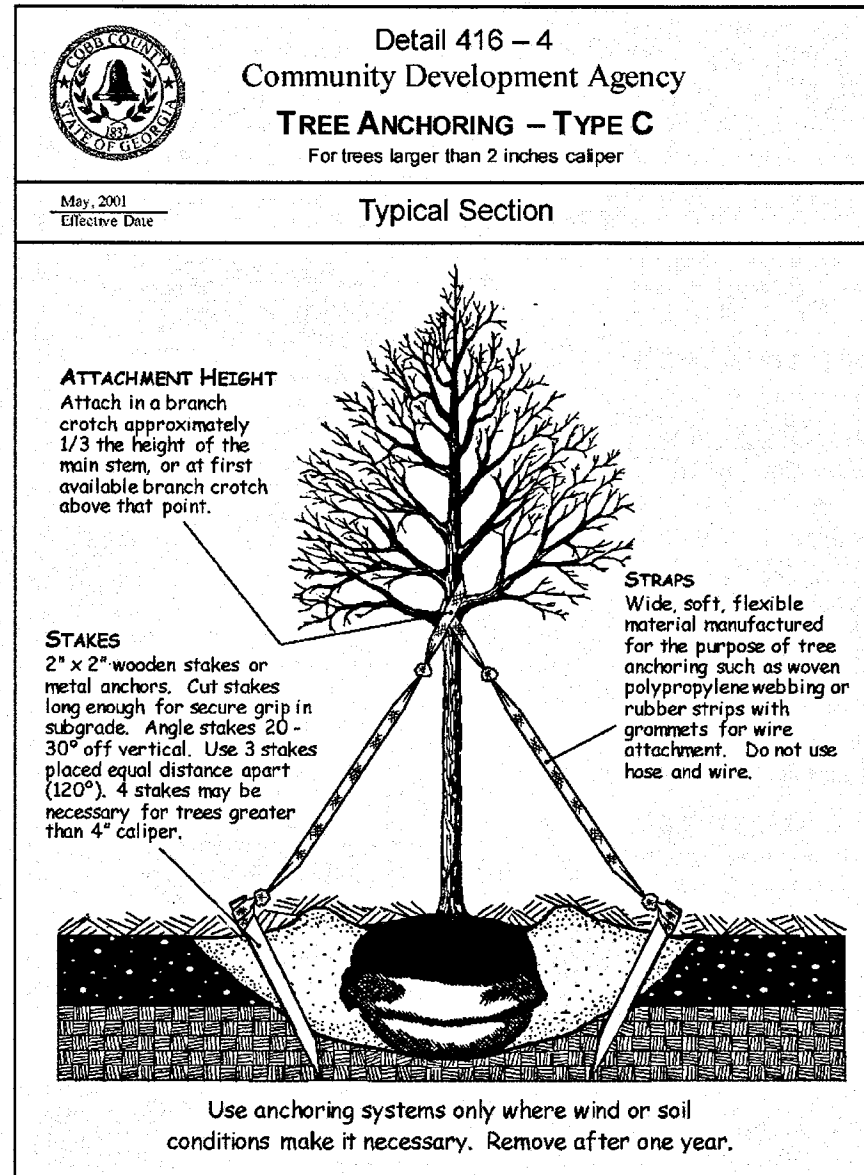
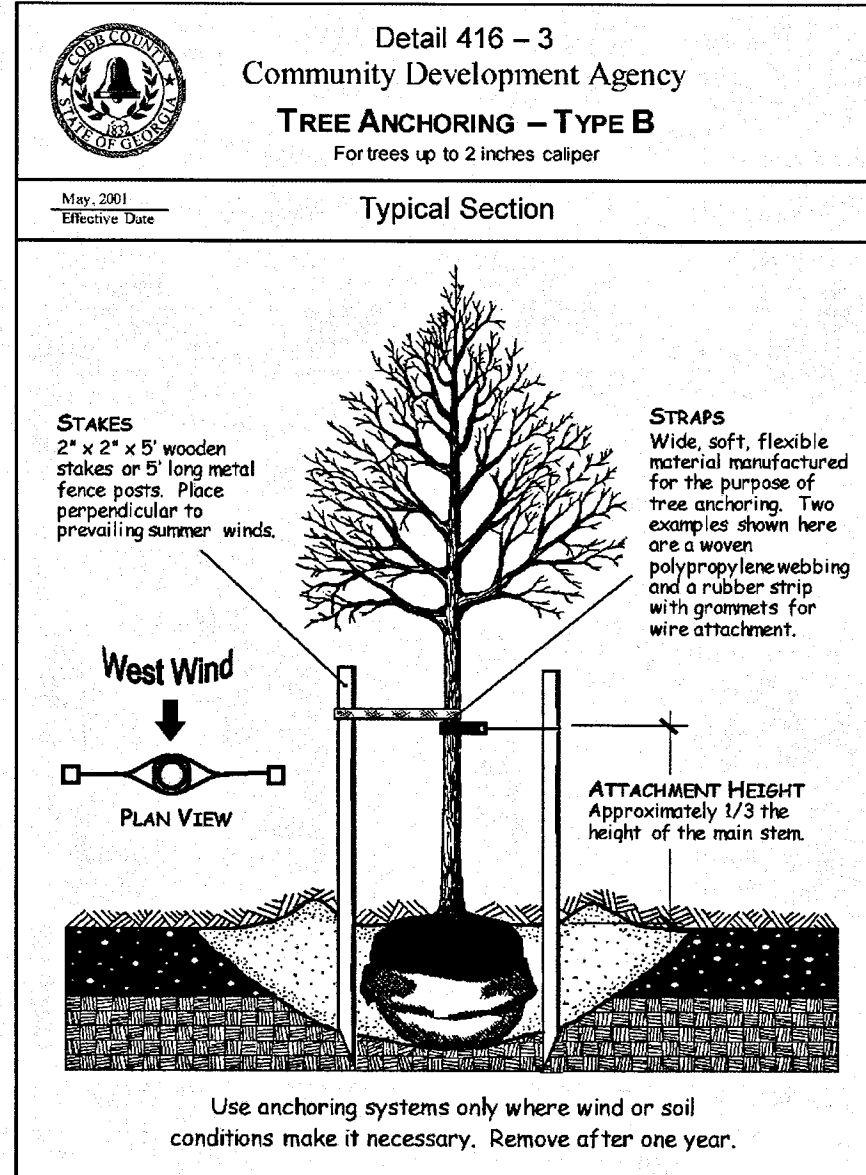
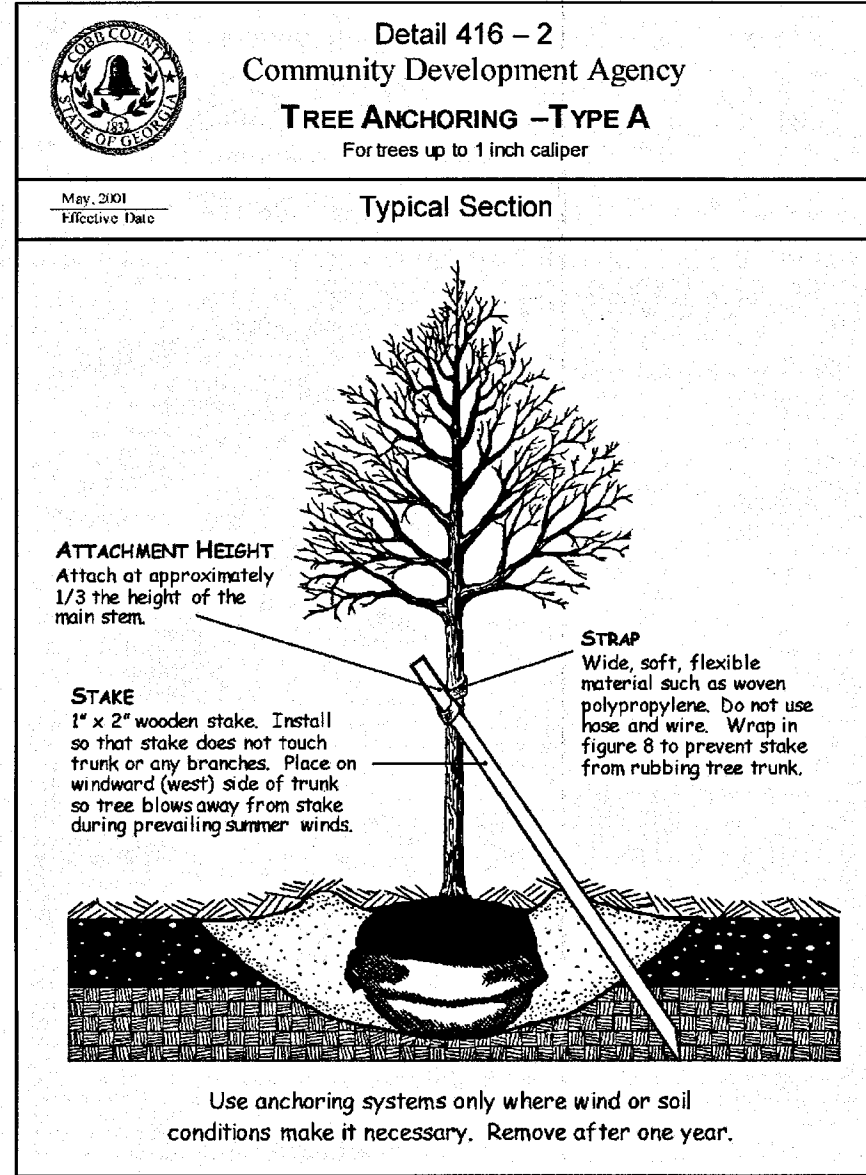
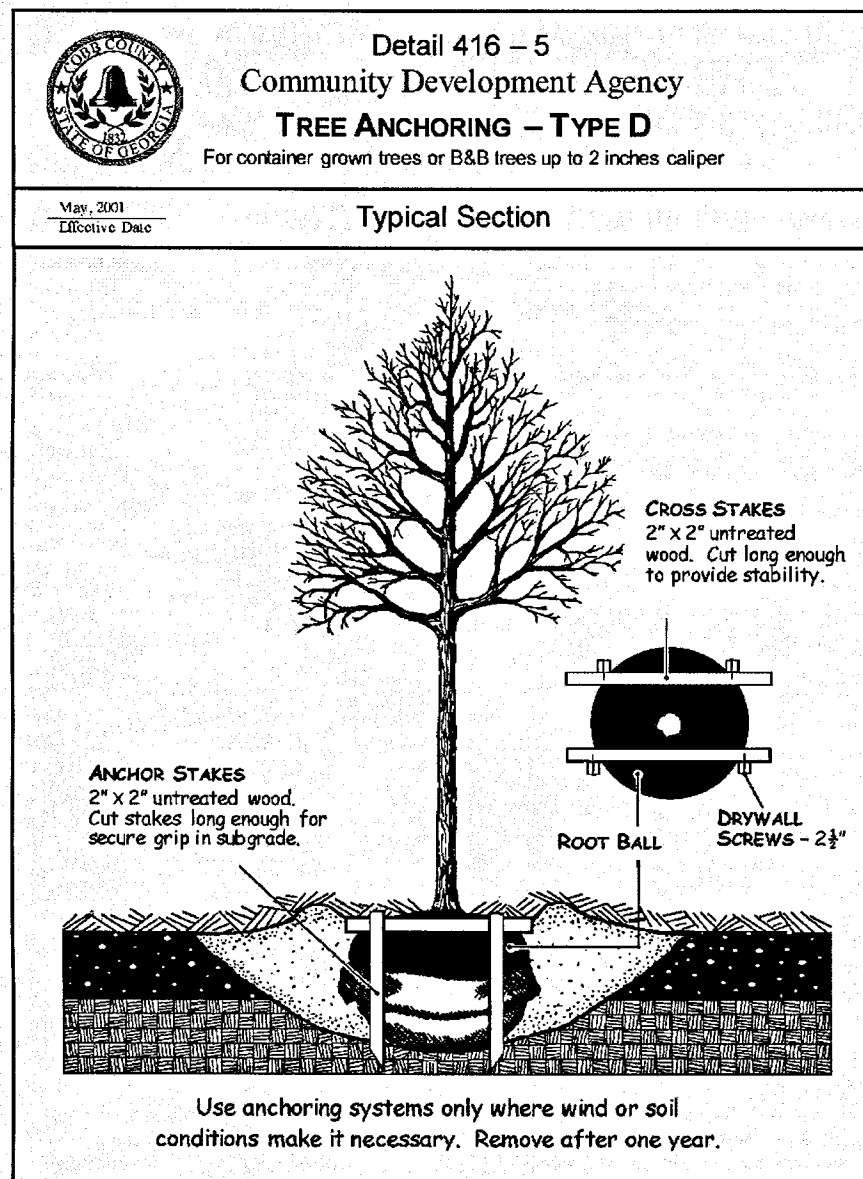
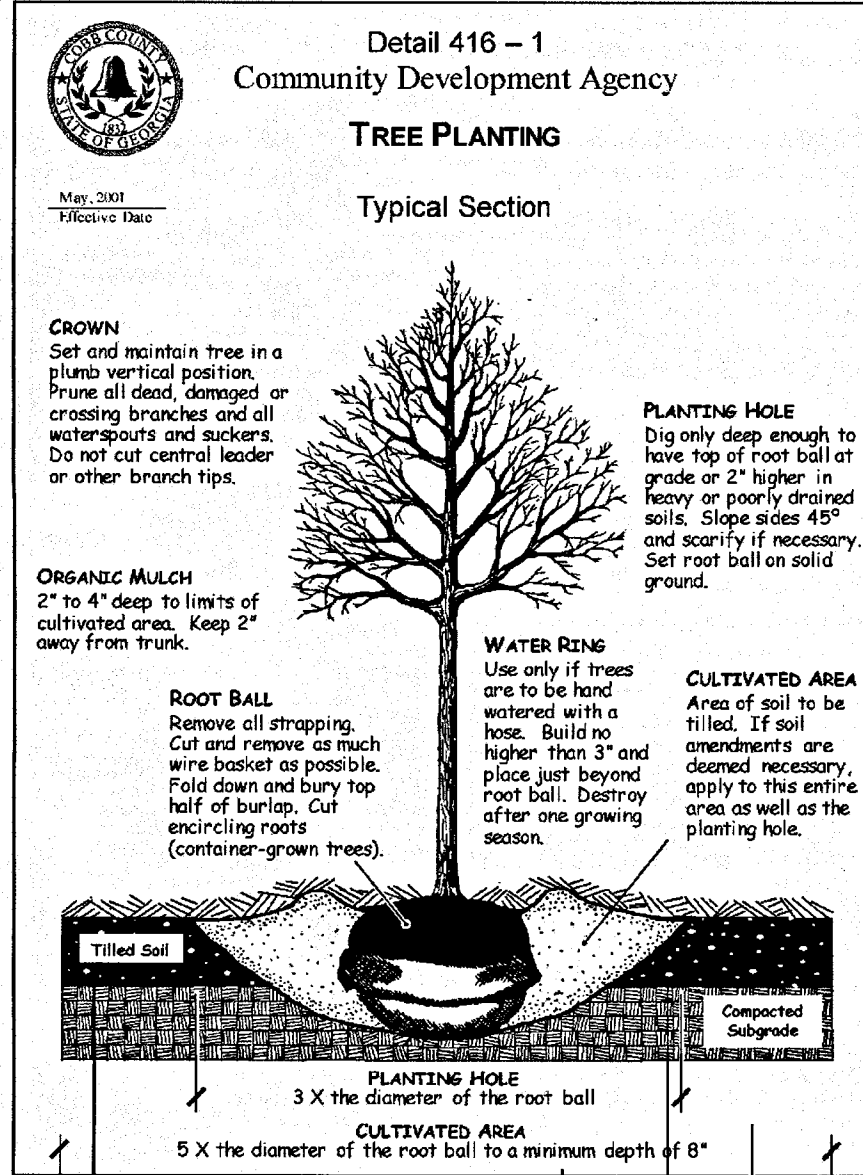




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EMERSON MANOR
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Planting Schedule & Density Calculations for Trees						
Common Name	Botanical Name	Min. Size	Qty.	Units per Tree	Units	% Units
Lot Trees						
October Glory red maple	Acer rubrum 'October Glory'	3-3 1/2" cal.	16	0.6	9.6	8.5%
Willow oak	Quercus phellos	3-3 1/2" cal.	16	0.6	9.6	8.5%
			32		19.2	
Buffer Trees						
Deodar cedar	Cedrus deodara	6' height	18	0.4	7.2	9.6%
Yoshino Japanese cedar	Cytoplometa japonica 'Yoshino'	6' height	36	0.4	14.4	19.1%
Nellie R. Stevens holly	Ilex x 'Nellie R. Stevens'	6' height	22	0.4	8.8	11.7%
Eastern red cedar	Juniperus virginiana	6' height	25	0.4	10.0	13.3%
Brackens Brown Beauty Magnolia	Magnolia grandiflora 'Brackens Brown Beauty'	6' height	20	0.4	8.0	10.6%
Green Giant Arborvitae	Thuja x plicata 'Green Giant'	6' height	24	0.4	9.6	12.8%
Total			145		77.2	
Detention Pond Planting						
Green Giant Arborvitae	Thuja x plicata 'Green Giant'	15' height	11			5.9%
						100.0%
Entry Planting						
Carissa Holly	Ilex cornuta 'Carissa'	3 gallon/3' o.c.	5			
Crimson Pygmy barberry	Berberis thunbergii 'Crimson Pygmy'	3 gallon/3' o.c.	10			
Knock-Out Rose	Rosa x 'Razzaz'	3 gallon/5' o.c.	4			
Silver Dragon Liriope	Liriope spicata 'Silver Dragon'	4" pot/12" o.c.	85			
Annual color		35 square feet				

LANDSCAPE NOTES

- THE SITE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO HAVE THE LOCATIONS OF THEIR UNDERGROUND UTILITIES MARKED PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL COORDINATE SERVICE ROUTING OF ALL GAS, TELEPHONE, AND ELECTRICAL LINES WITH THE APPROPRIATE UTILITY COMPANY. CAUTION SHALL BE EXERCISED TO AVOID INTERRUPTION OF SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ALL EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. ALL CONSTRUCTION MUST COMPLY WITH EACH UTILITY'S STANDARDS AND SPECIFICATIONS AND NOT INTERFERE WITH TREE PLANTING SITES OR EXISTING TREES TO BE PRESERVED.
- THE OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPING. LANDSCAPING SHALL BE MAINTAINED IN A GOOD CONDITION SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPEARANCE AT LEAST EQUAL TO THE ORIGINAL INSTALLATION. ANY DEAD VEGETATION AND LANDSCAPING MATERIAL OR ANY DAMAGED NON-LIVING LANDSCAPING MATERIALS SHALL BE PROMPTLY REPLACED.
- THE QUANTITIES SHOWN IN THE PLANT SCHEDULE ARE SOLELY FOR INFORMATION OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE QUANTITIES SHOWN IN THE PLANT SCHEDULE WITH THE QUANTITIES SHOWN ON THE PLANTING PLAN. ALL DIFFERENCES IN THE QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION.
- DO NOT SCALE FROM THE DRAWING.
- FINAL LOCATIONS OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE. AFTER FLAGGING PLANT LOCATIONS AND PRIOR TO INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR INSPECTION.
- ALL PLANT MATERIALS SHALL CONFORM WITH THE LATEST EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. ALL PLANT MATERIAL SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE FEDERAL, STATE AND COUNTY LAWS REQUIRING INSPECTION FOR DISEASE AND INSECT CONTROL. BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES.
- THE CONTRACTOR SHALL REMOVE ALL DEAD WOOD, SUCKERS AND ALL BROKEN OR DAMAGED BRANCHES IN ACCORDANCE WITH AANS (AMERICAN ASSOCIATION OF NURSEYMEN STANDARDS) IN ORDER TO PRESERVE THE NATURAL CHARACTER OF THE TREE.
- ALL PLANTING PITS SHALL BE FREE OF ROCKS, GRAVEL AND OTHER DEBRIS. ALL PLANTING PITS SHALL BE PREPARED IN ACCORDANCE WITH THE PLANTING DETAILS.
- PLANT QUALITY: ALL PLANTS SHALL BE SOUND, FREE OF DISEASE OR PESTS AND SHALL HAVE A HEALTHY NORMAL ROOT SYSTEM.
- NO SUBSTITUTION OF PLANT SPECIES OR VARIETY SHALL BE MADE WITHOUT PRIOR WRITTEN PERMISSION FROM THE LANDSCAPE ARCHITECT.
- MAINTENANCE OF PLANTS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, WATERING, SPRAYING, MULCHING, PRUNING, MOWING, FERTILIZING, ETC. AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- FINAL ACCEPTANCE SHALL BE GRANTED BY THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE ENTIRE PROJECT. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE, DURING AND AT THE END OF THE GUARANTEE PERIOD AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- ALL PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES BEFORE PRIOR TO THE FINAL ACCEPTANCE OF THE WORK AND DURING THE GUARANTEE PERIOD SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, VARIETY, QUANTITY, SIZE AND MEETING ALL PLANT SCHEDULE SPECIFICATIONS.
- BURLAP MATERIAL ON BALLED AND BURLAPPED PLANTS SHALL BE THE TYPE WHICH WILL DECAY WITHIN TWO YEARS (NO SYNTHETICS, PLASTIC, NYLON, TREATED OR OTHER NON-NATURAL TYPES WILL BE ALLOWED). AFTER SETTING BALLED AND BURLAPPED PLANTS IN THE PLANTING PIT, ALL BINDER TWINE SHALL BE CUT AND THE BURLAP REMOVED FROM THE TOP 1/3 (ONE-THIRD) OF THE ROOTBALL.
- ALL SHRUB, GROUND COVER, AND SEASONAL COLOR BED AREAS SHALL BE TOP DRESSED WITH A MINIMUM DEPTH OF 3" OF COMPACTED MULCH. THE MULCH SHALL BE FREE FROM MOLD, STICKS, CONES, WEEDS AND OTHER DEBRIS. ADDITIONAL MULCH SHALL BE PLACED IN ORDER TO MAINTAIN THE MINIMUM DEPTH UNTIL DATE OF FINAL ACCEPTANCE.
- THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT AT ANY TIME UNTIL THE END OF THE GUARANTEE PERIOD ANY AND ALL PLANT MATERIAL THAT DOES NOT MEET THE SPECIFICATIONS AS SET FORTH HERE AND IN THE PLANT SCHEDULE.
- ALL PLANT MATERIALS SHALL BE PLANTED AS PER THE PLANT DETAILS AND NOTES.
- ALL EXISTING TURF AND VEGETATION SHALL BE STRIPPED AND REMOVED PRIOR TO THE INSTALLATION OF ANY TURF AND PLANT MATERIAL. CARE SHALL BE TAKEN WHEN WORKING AROUND OR NEAR PLANTS LABELED ON THE PLAN AS EXISTING OR TO REMAIN. ALL EXISTING PLANTS THAT ARE TO REMAIN, IF DAMAGED BY CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- ALL PLANT MATERIALS SHALL BE PROPERLY WATERED IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED AT A RATE THAT WILL COMPLETELY SATURATE THE ROOTBALL REGARDLESS OF WEATHER CONDITIONS. IF THE HEIGHT OF THE ROOTBALL IS 24", THEN THE PLANT SHALL BE WATERED TO A DEPTH OF 24".
- ALL DISTURBED AREAS SHALL BE SEED WITH BERMAUDA SEED UNLESS INDICATED OTHERWISE ON THE PLANS. CONTRACTOR IS TO PROVIDE A VIGOROUS STAND OF TURF, FREE FROM DISEASE AND / OR WEEDS.
- PLANTING MIXTURE SHALL BE 1 (ONE-THIRD) AMENDMENT GRADE, PINE BARK AND 2 (TWO-THIRD) NATIVE SOIL.
- STANDARDS FOR TRANSLANTING SHALL BE IN KEEPING WITH THOSE ESTABLISHED IN THE INTERNATIONAL SOCIETY OF ARBORICULTURE PUBLICATION, "TREE AND SHRUB TRANSLANTING MANUAL" OR SIMILAR PUBLICATION. REFERENCE THE AMERICAN ASSOCIATION OF NURSERYMEN PUBLICATION "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1973) FOR PLANT MATERIAL QUALITY SPECIFICATIONS. REFERENCE THE LATEST EDITION OF THE "MANUAL FOR WOODY LANDSCAPE PLANTS" MICHAEL DIRR, ISA GUIDELINES AND ANSI STANDARDS, OR SIMILAR PUBLICATION FOR INFORMATION ON SITE REQUIREMENTS FOR VARIOUS TREE SPECIES.

OWNER/DEVELOPER:
MACALLAN CAPITAL, LLC
1642 POWERS FERRY ROAD, S.E.
SUITE 250
MARIETTA, GA. 30067

24 HR. PHONE & EMERGENCY CONTACT:
JAMES L. RHODEN III
404-603-8833

EMERSON MANOR
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SHEET TITLE
TREE NOTES, CHARTS & DETAILS

SEAL

PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE N.T.S.	ISSUE DATE 10/19/15
SHEET NUMBER 11	

ISSUED FOR CONSTRUCTION

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EMERSON MANOR
SUBDIVISION

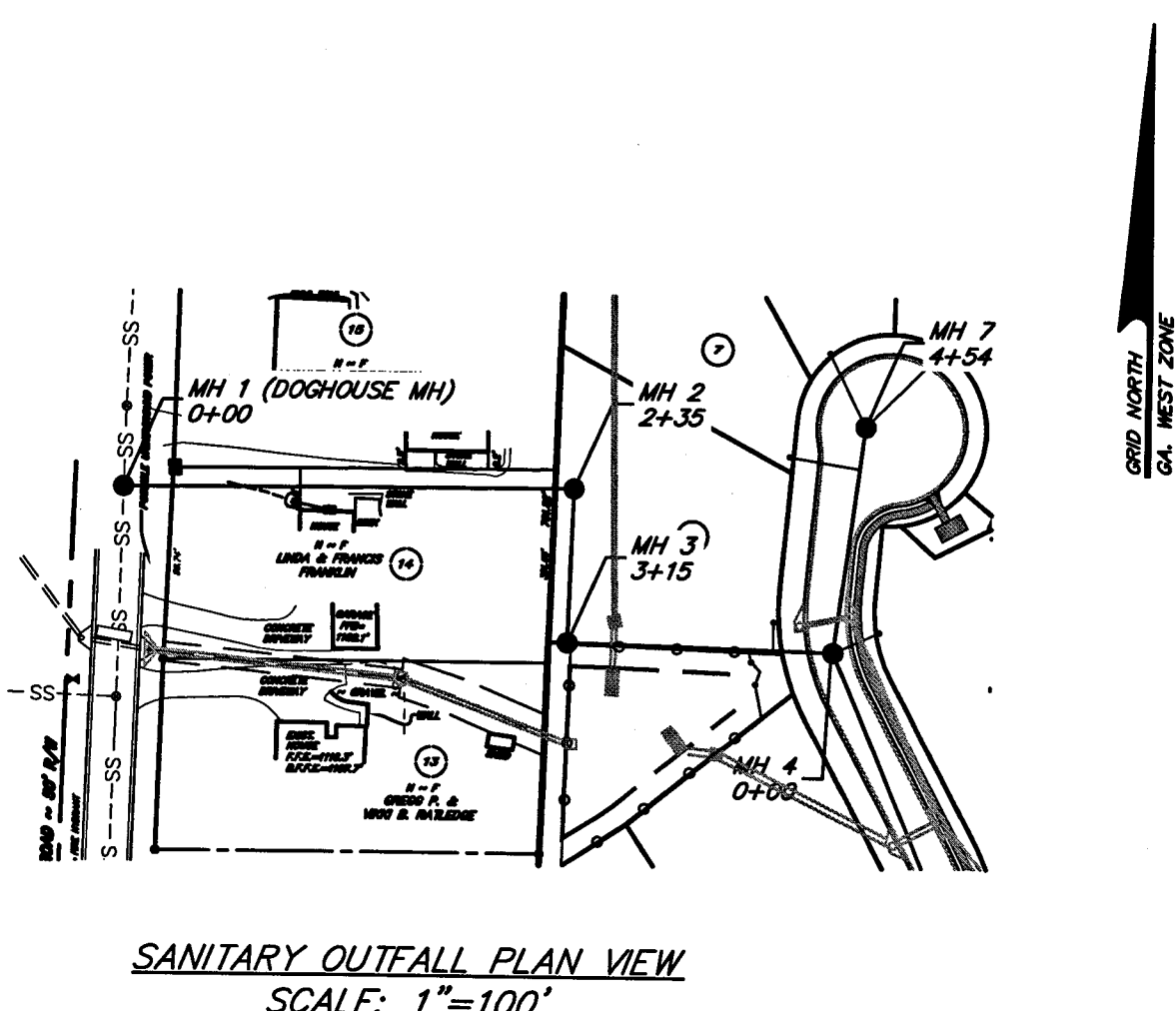
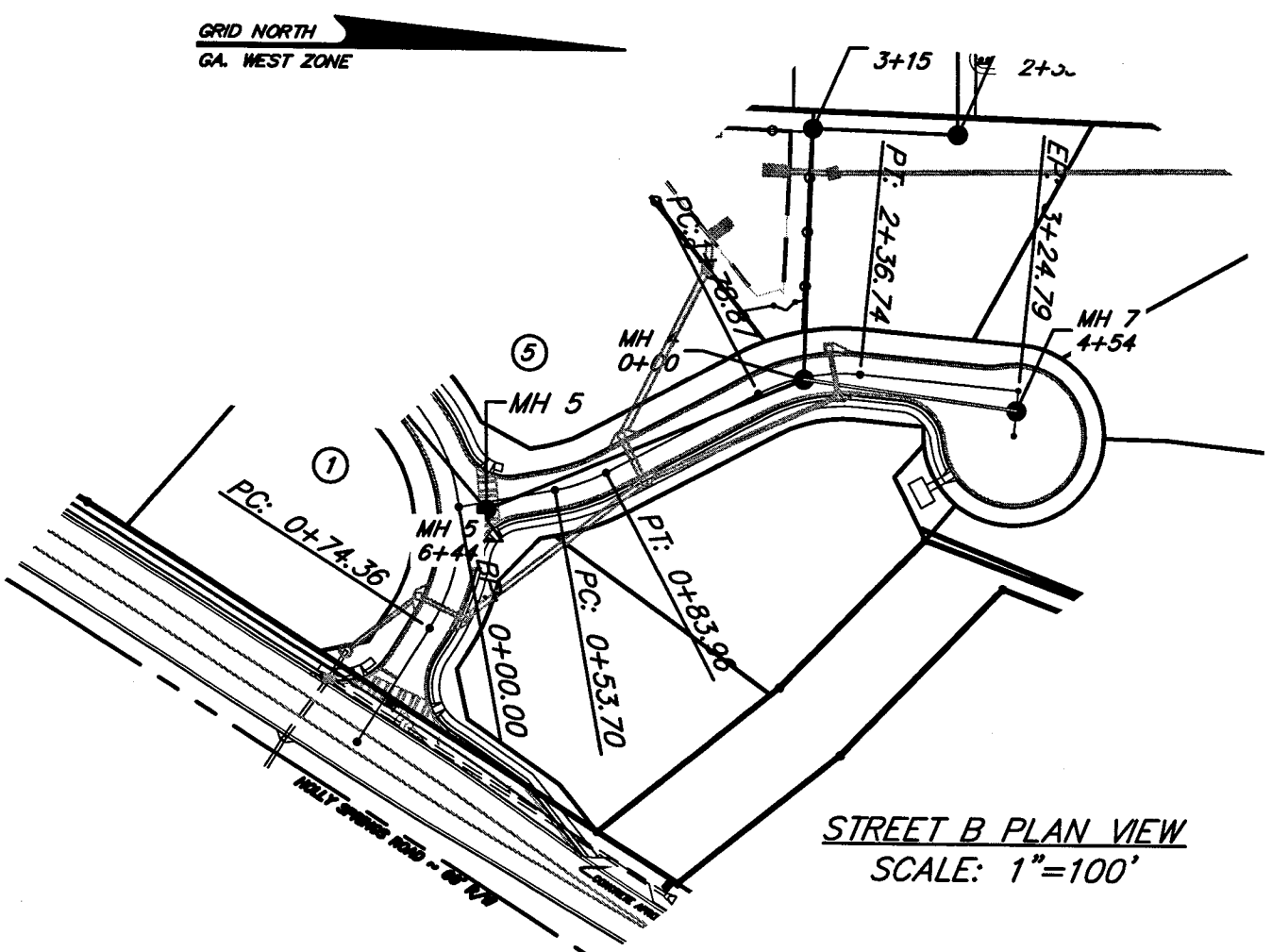
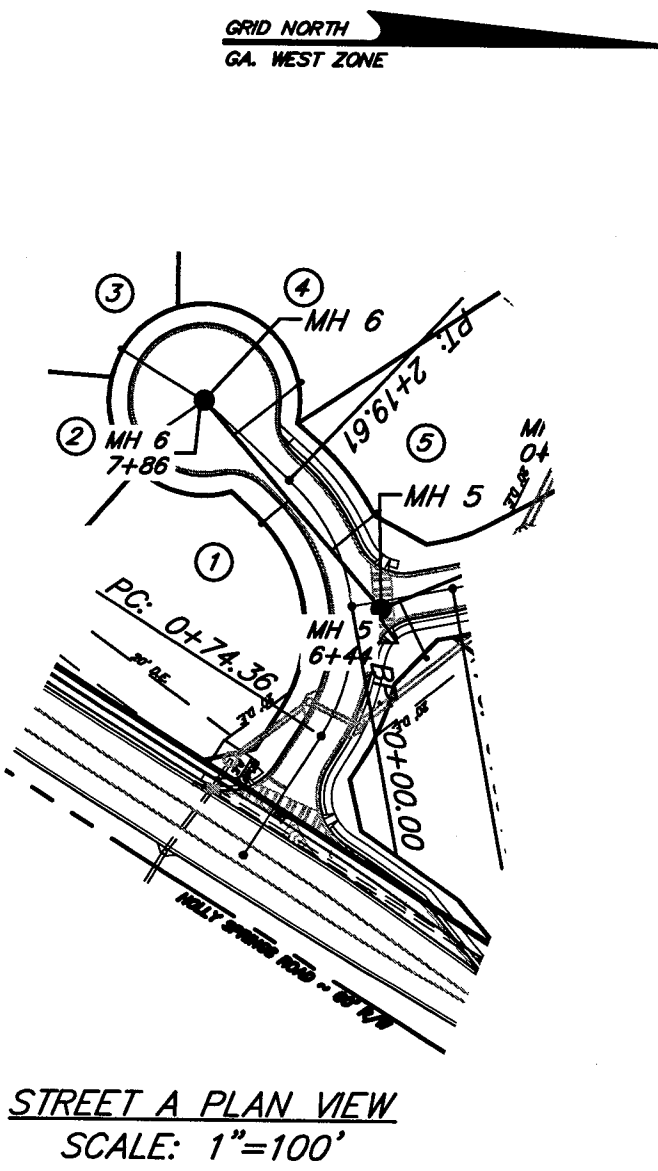
LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
COBB COUNTY, GEORGIA
ZONED R-15

REVISIONS		
REV.	DATE	REVISION REFERENCE

SHEET TITLE
**ROAD & SANITARY
SEWER PLAN & PROFILE**

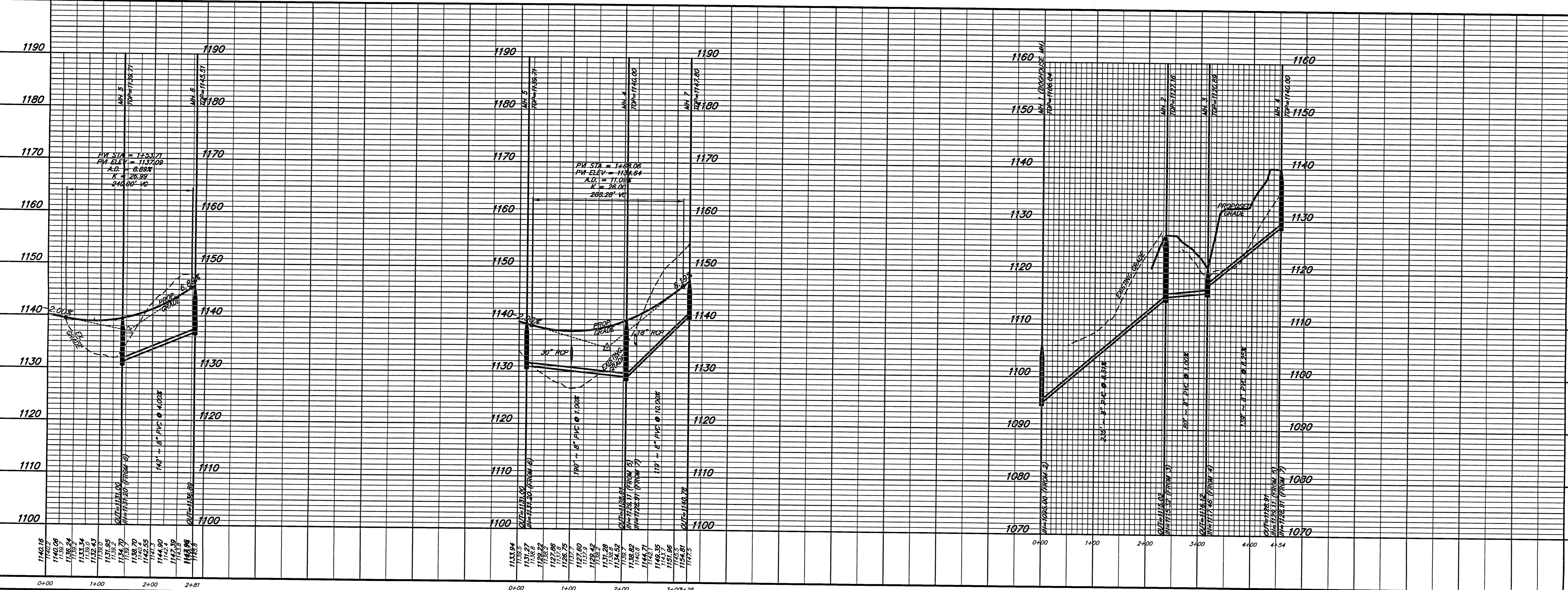
ISSUED FOR CONSTRUCTION

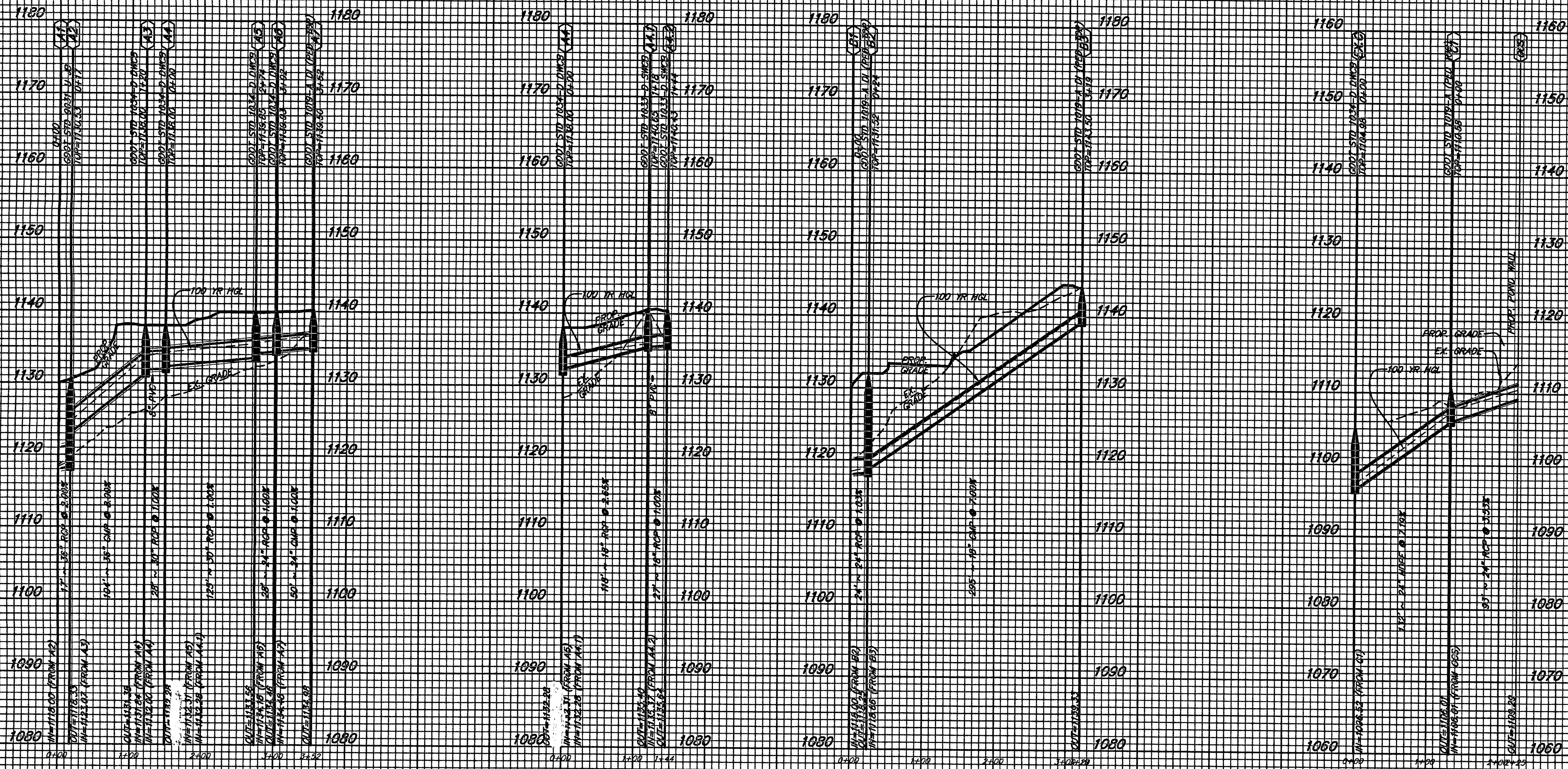
SEAL	
	
GaSWCC #10465	
PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE AS SHOWN	ISSUE DATE 10/19/15
SHEET NUMBER 12	



CCWS

PROFILE SCALE : HORIZ. - 1" = 100', VERT. - 1" = 10'





PROFILE SCALE : HORIZ. - 1" = 100', VERT. - 1" = 10'

PIPE CHART (25 YEAR)																			
INLET HYDROLOGY						SYSTEM FLOW		PIPE PROPERTIES										FLOW CHARACTERISTICS	
Label	Return Period (yrs)	Inlet Tc (min)	Inlet "C"	Inlet Area (acres)	Inlet Q (cfs)	System Tc (min)	System Intensity (in/hr)	System Q (cfs)	Dia	Slope (%)	Length (ft)	Type	US Inv. El. (ft)	D/S Inv. El. (ft)	Full Flow Capacity (cfs)	Velocity (ft/s)	US HGL (ft)	D/S HGL (ft)	
A1-A2	100	5.0	0.75	0.55	4.14	5.83	9.64	3.19	30.96	36 inch	2.00%	17	RCP	1123.07	1118.00	364.23	19.75	1124.87	1118.82
A2-A3	100	5.0	0.47	0.65	3.06	5.70	9.69	2.79	27.27	36 inch	8.59%	104	CMC	1132.00	1123.07	105.86	4.95	1133.69	1125.25
A3-A4	100	5.0	0.60	0.94	5.65	5.64	9.71	2.49	24.33	30 inch	1.00%	28	RCP	1132.28	1132.00	41.01	5.69	1133.96	1134.03
A4-A5	100	5.0	0.44	0.85	3.77	5.23	9.86	1.67	16.65	30 inch	0.102	125	CMC	1133.56	1132.28	22.48	3.86	1135.17	1134.33
A5-A6	100	5.0	0.68	0.70	4.81	5.19	9.88	1.30	12.94	24 inch	3.29%	28	RCP	1134.48	1133.56	41.00	4.33	1135.77	1135.37
A6-A7	100	5.0	0.54	0.22	1.19	5.11	9.91	0.25	2.48	18 inch	2.62%	118	CMC	1135.37	1134.48	9.21	1.40	1135.97	1134.33
A7-A8	100	5.0	0.52	0.25	1.30	5.00	9.95	0.13	1.30	18 inch	0.04	26	CMC	1135.64	1135.37	10.70	1.58	1136.07	1136.08
A8-A9	100	5.0	0.75	1.09	8.22	5.00	9.95	0.82	8.22	24 inch	12.0%	50	CMC	1134.98	1134.38	13.42	2.92	1136.25	1136.06
B1-B2	100	5.0	0.95	0.50	4.76	5.68	9.69	0.65	6.36	24 inch	1.00%	25	RCP	1118.25	1118.00	22.62	5.92	1119.14	1118.75
B2-B3	100	5.0	0.95	0.96	9.15	5.00	9.95	0.40	3.96	18 inch	7.00%	295	BCOMP	1138.90	1118.25	15.05	2.96	1139.66	1119.31
QCSC1	100	5.0	0.00	0.00	0.00	0.00	0.00	0.00	14.30	24 inch	3.54%	93	RCP	1109.29	1106.00	42.55	4.95	1110.65	1107.75
CI-EX C	100	5.0	0.35	0.27	0.95	5.13	9.90	0.09	15.24	24 inch	7.18%	132	GHDFPE	1106.00	1096.52	65.67	17.02	1107.41	1097.18

GUTTER SPREAD CHART (10 YEAR)															
INLET HYDROLOGY				INLET CHARACTERISTICS				FLOW CHARACTERISTICS							
Label	Inlet Tc (min)	Inlet "C"	Inlet Area (acres)	Location	Inlet Type	Road Grade (%)	Bypass Target	Local Q (cfs)	Carryover Q (cfs)	Total Inlet Q (cfs)	Intercepted Q (cfs)	Bypassed Q (cfs)	Capture Efficiency (%)	Gutter Spread (ft)	Gutter Depth (ft)
A7	5	0.75	1.09	In Sag	Generic Default 100%			6.10	0.00	6.10	6.10	0.00	100	0.0	0.00
A4.2	5	0.52	0.25	On Grade	Curb GA-DOT 1033D - 24	2.00	A3	0.96	0.00	0.96	0.96	0.00	100	4.9	0.19
A4.1	5	0.54	0.22	On Grade	Curb GA-DOT 1033D - 24	2.00	A4	0.89	0.00	0.89	0.89	0.00	100	4.6	0.19
A6	5	0.68	0.70	In Sag	Curb GA-DOT 1034D - 24			3.57	0.00	3.57	3.57	0.00	100	5.6	0.21
A5	5	0.44	0.85	In Sag	Curb GA-DOT 1034D - 30			2.80	0.00	2.80	2.80	0.00	100	4.3	0.18
A4	5	0.60	0.94	In Sag	Curb GA-DOT 1034D - 30			4.19	0.00	4.19	4.19	0.00	100	6.5	0.22
A3	5	0.47	0.65	In Sag	Curb GA-DOT 1034D - 30			2.27	0.00	2.27	2.27	0.00	100	2.7	0.15

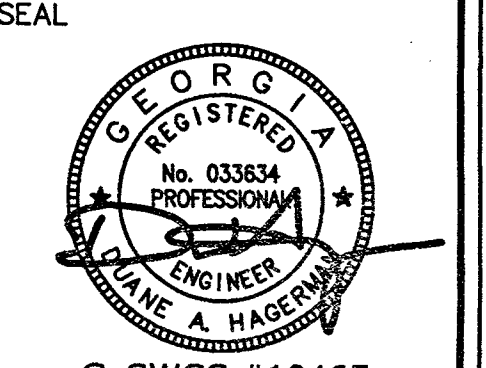


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EMERSON MANOR
SUBDIVISION
LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
COBB COUNTY, GEORGIA
ZONED R-15

REVISIONS		
REV.	DATE	REVISION REFERENCE

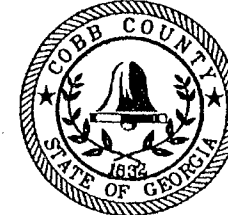
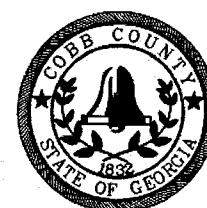
SHEET TITLE
STORM PROFILES



PROJECT I.D. 1502041
FIELD BOOK 1502041
DRAWN BY ASH
CHECKED BY DH
SCALE 1" = 100'
ISSUE DATE 10/19/15
SHEET NUMBER 13



what's below.
call before you dig



BENCHMARK: EX. CONC. MON.
ELEV. = 1148.33

EXISTING CONCRETE
MONUMENT

20 0 20 40
SCALE IN FEET

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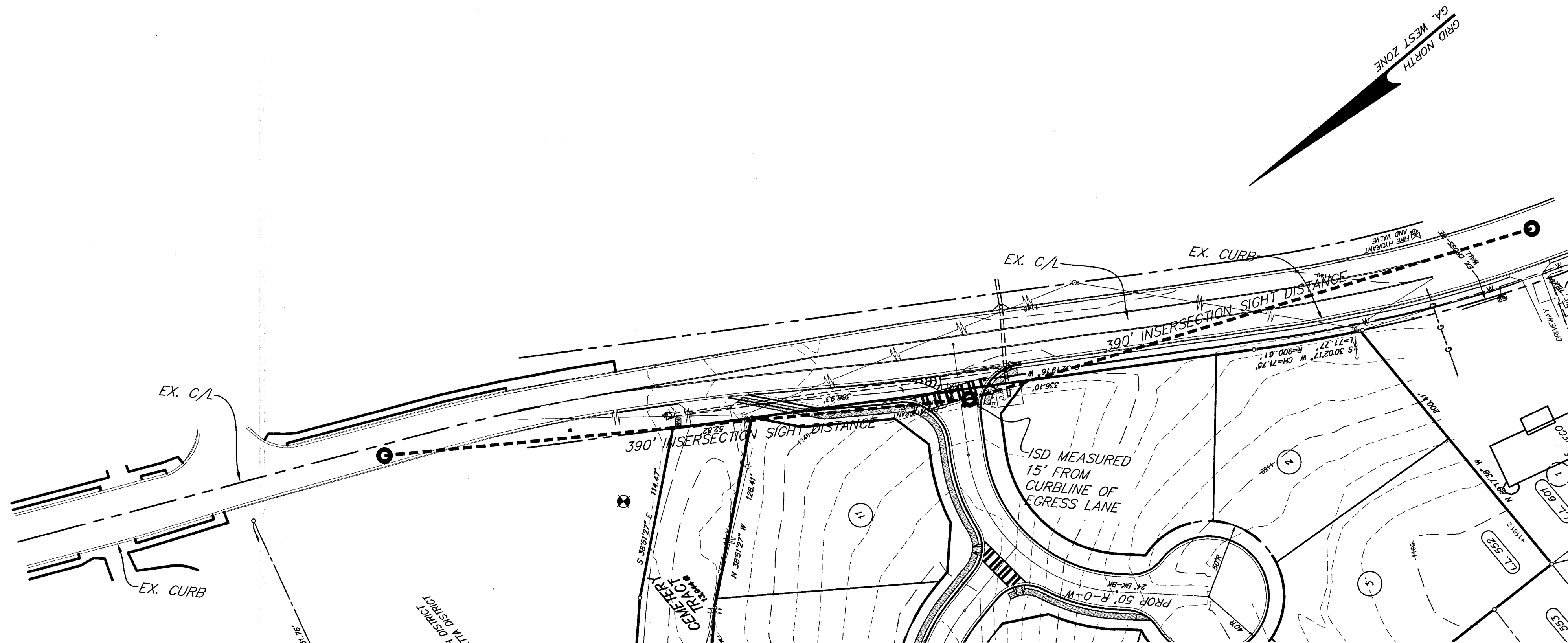
SHEET NUMBER
14
APPROVED
FOR INSTRUCTION

ISSUED FOR CONSTRUCTION

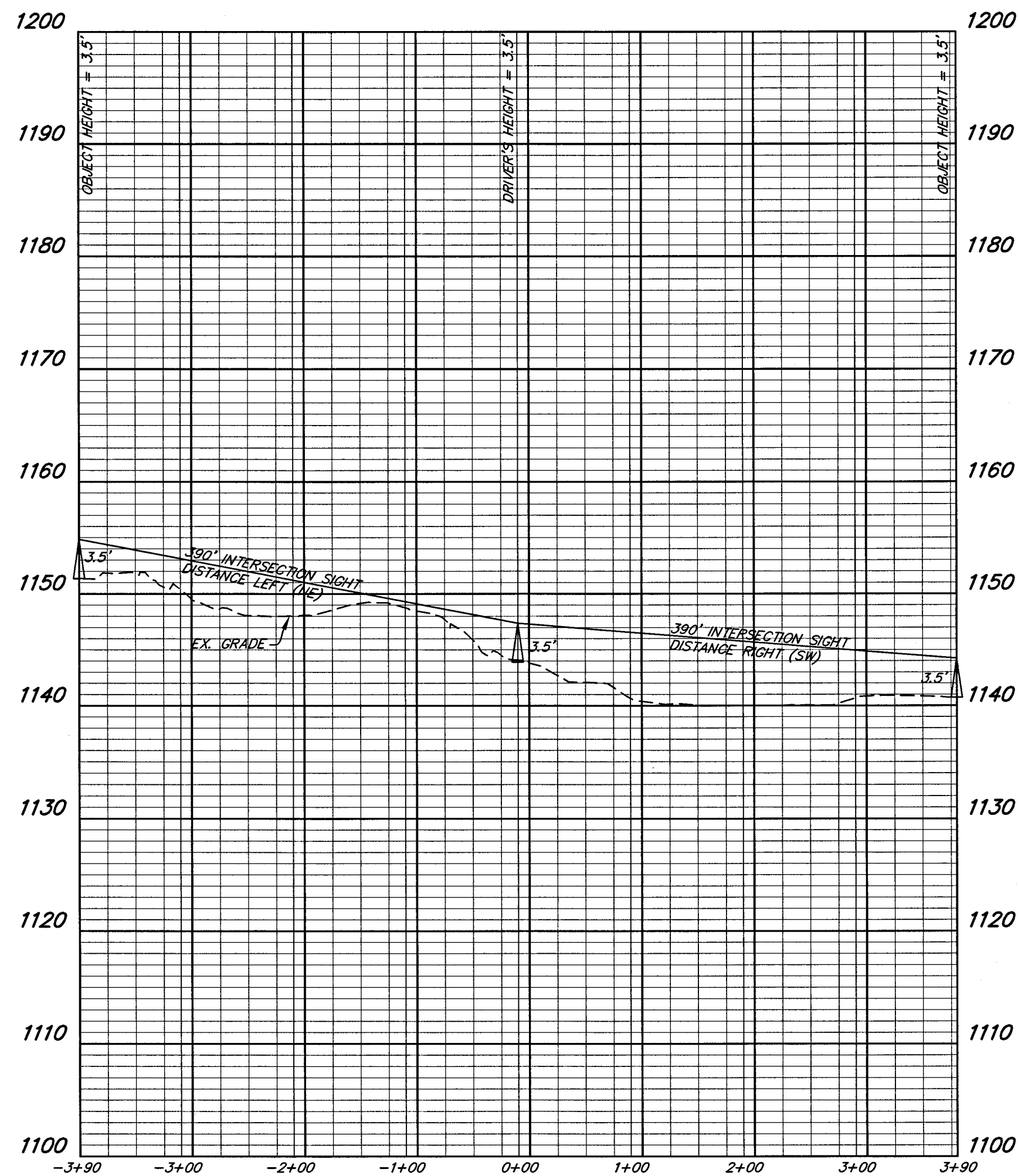
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Plotted on: Oct 18, 2015 - 8:17am



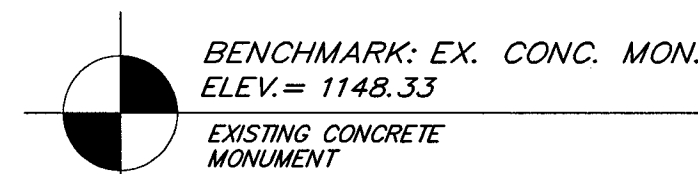
Know what's below.
Call before you dig.



PLAN VIEW
SCALE: 1"=50'



PROFILE
HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=50'



THIS PARCEL OF LAND IS NOT IN THE 100 YEAR FLOOD PLAIN AND IS IN ZONE X, ACCORDING TO F.E.M.A. (F.I.A.)
COMMUNITY NUMBER # 130052, MAP NUMBER # 13067C0063H DATED NOVEMBER 2, 2012

OWNER/DEVELOPER:
MACALLAN CAPITAL, LLC
1642 POWERS FERRY ROAD, S.E.
SUITE 250
MARIETTA, GA. 30067

24 HR. PHONE & EMERGENCY CONTACT:
JAMES L. RHODEN III
404-603-8833

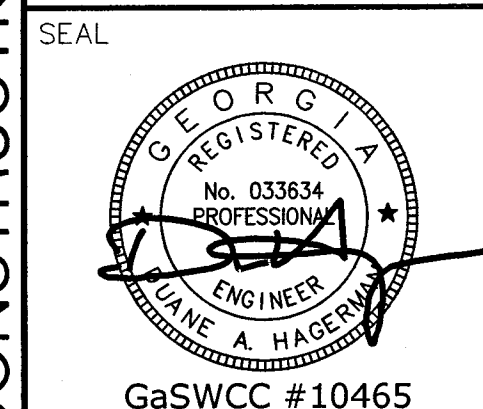
Gaskins
ENGINEERING
PLANNING/CONSULTING
SURVEYING
PROJECT MGMT
1266 Powder Springs Road
Marietta, Georgia 30064
Phone: (770) 424-7168
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EMERSON MANOR
SUBDIVISION
LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
COBB COUNTY, GEORGIA
ZONED R-15

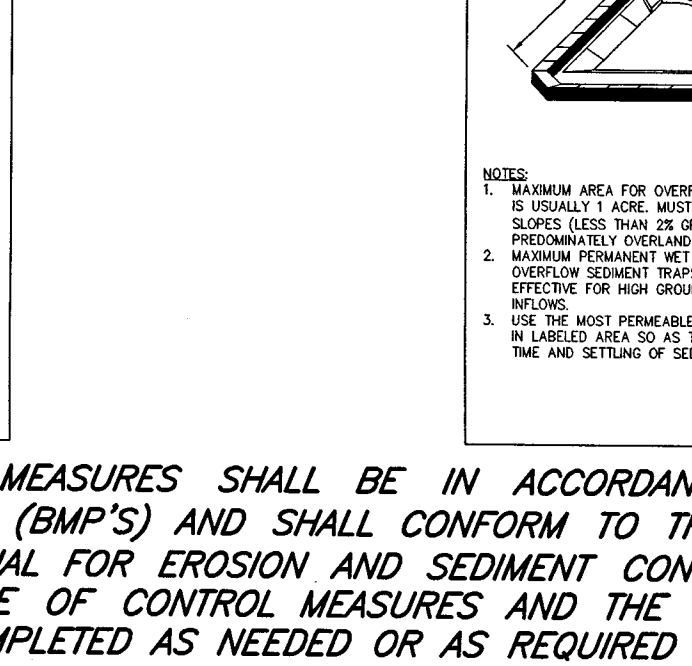
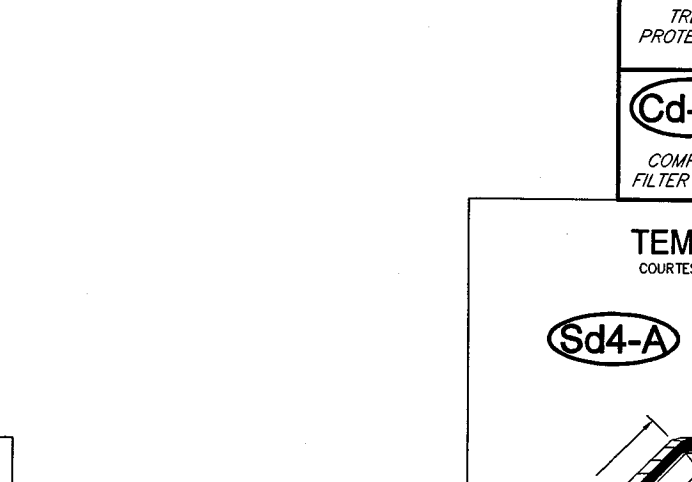
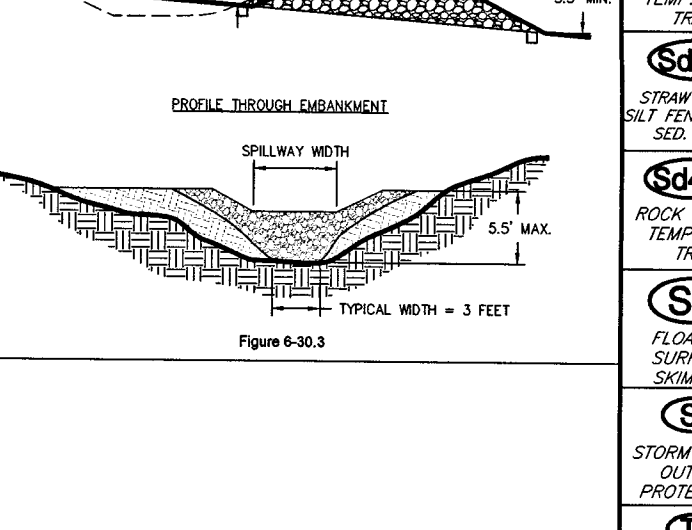
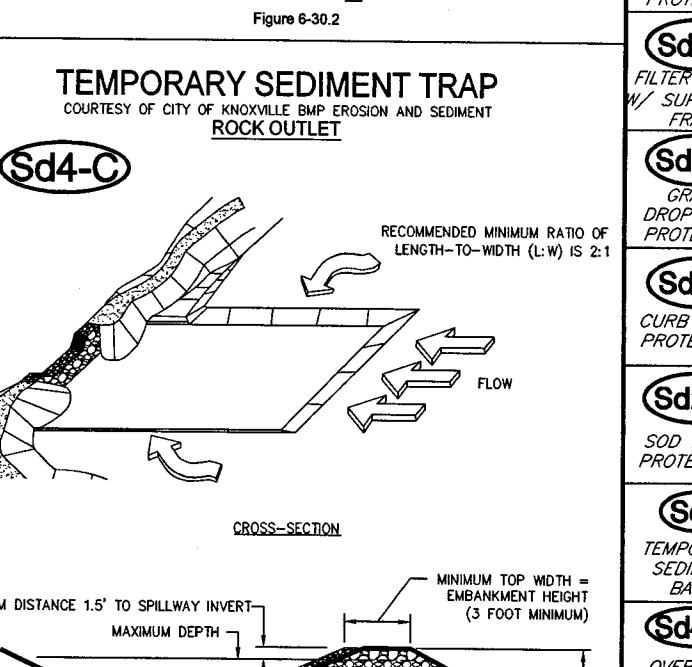
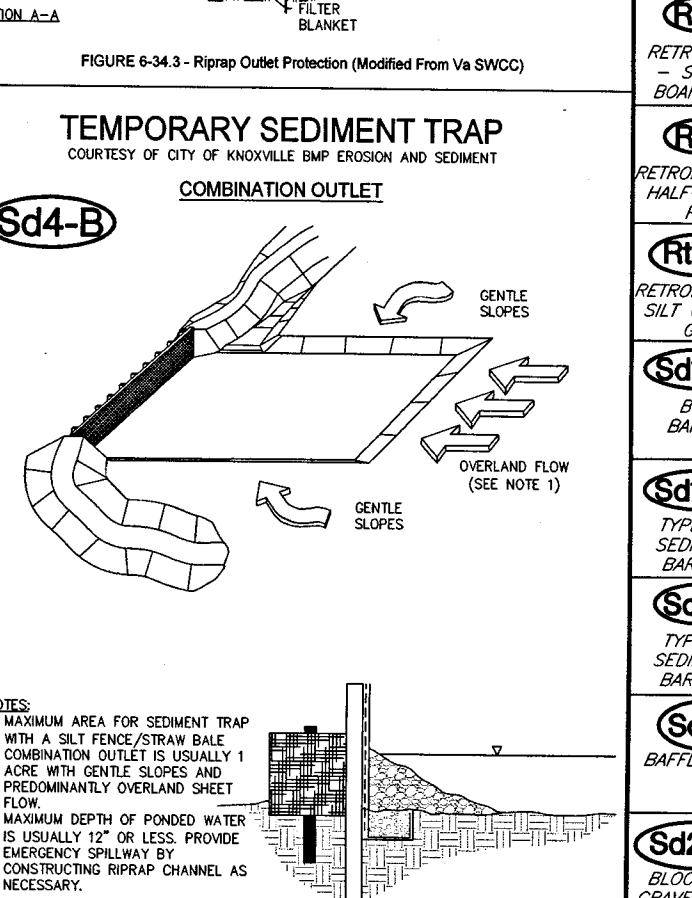
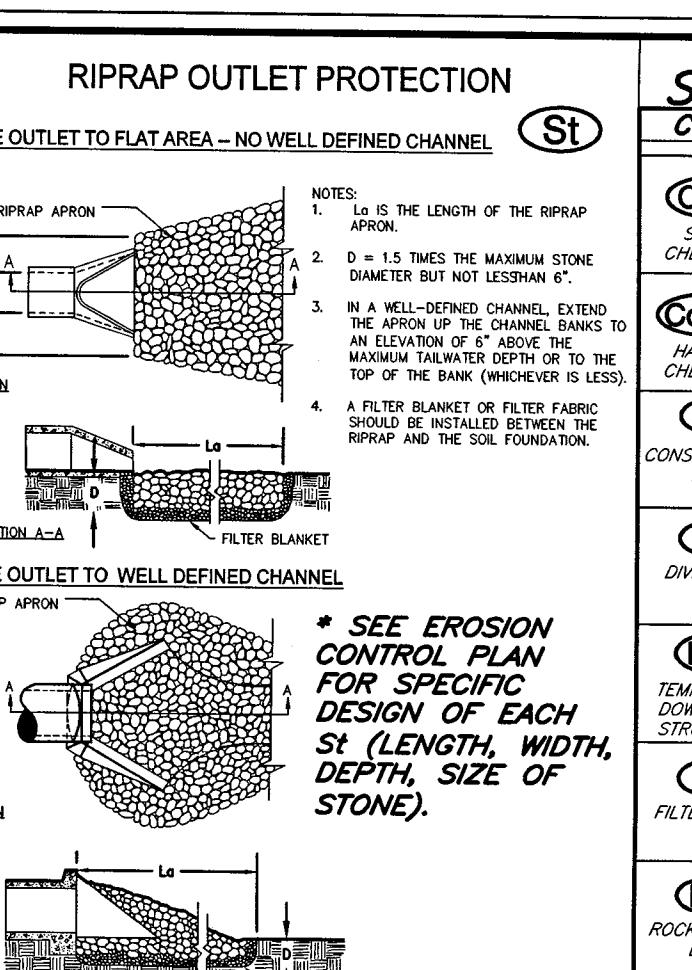
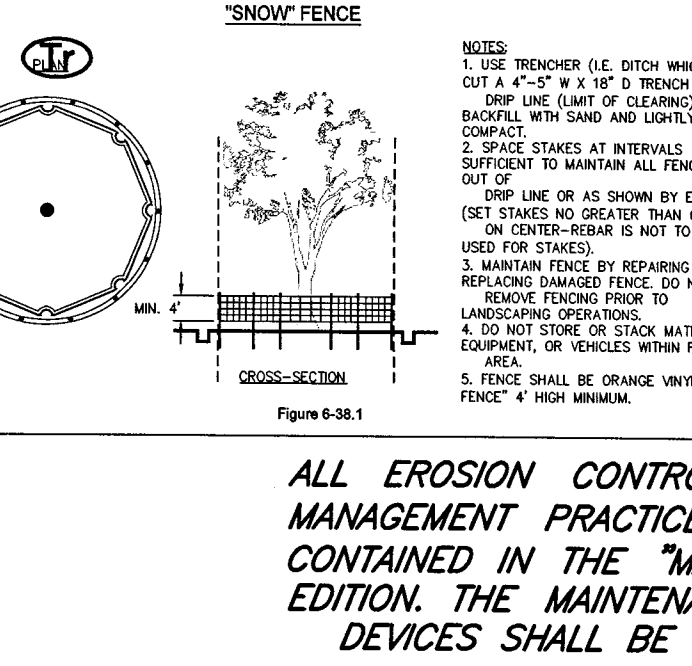
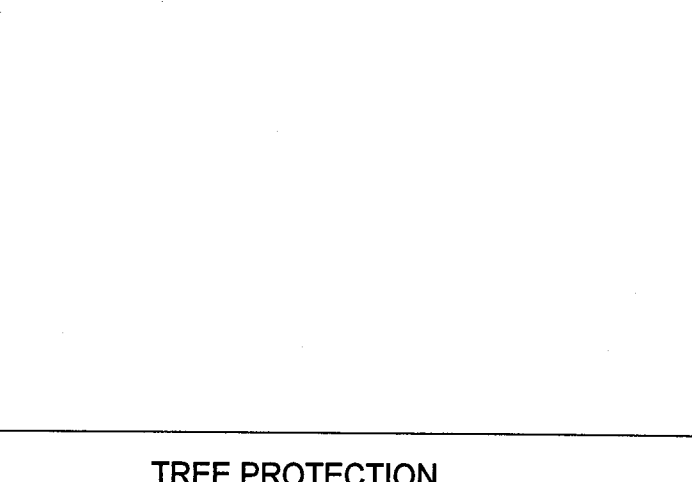
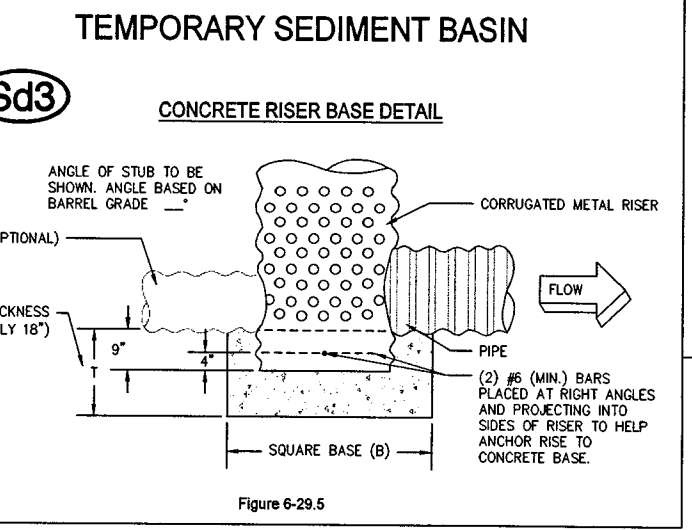
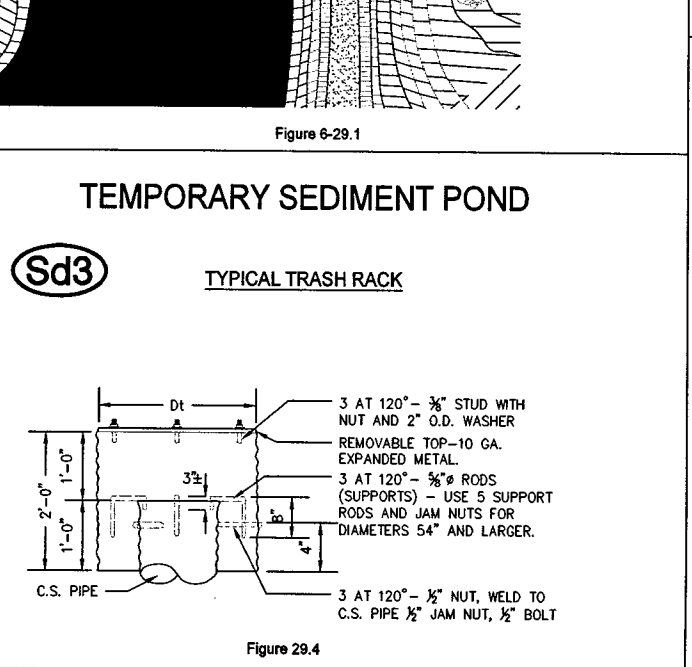
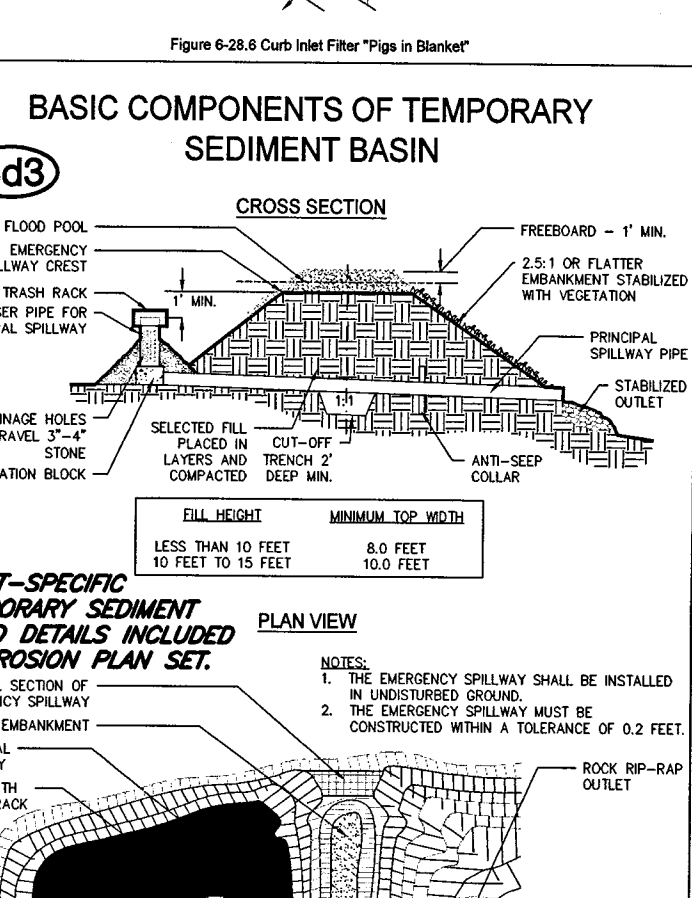
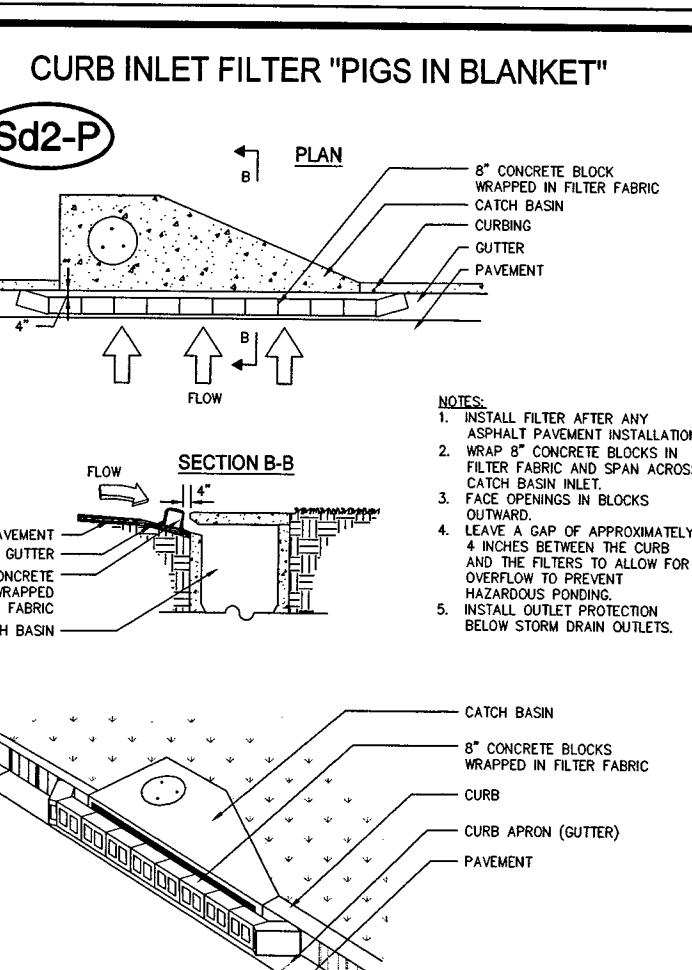
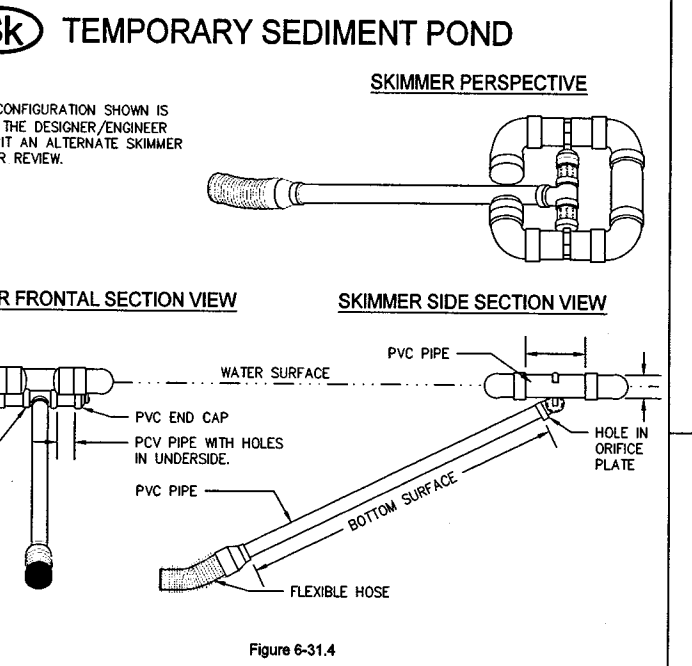
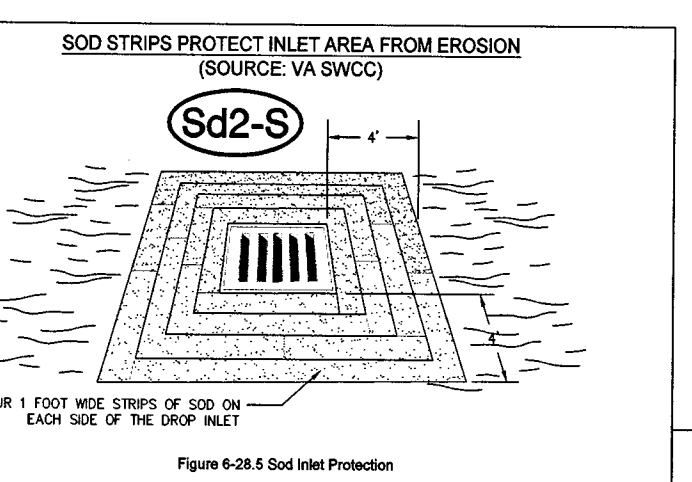
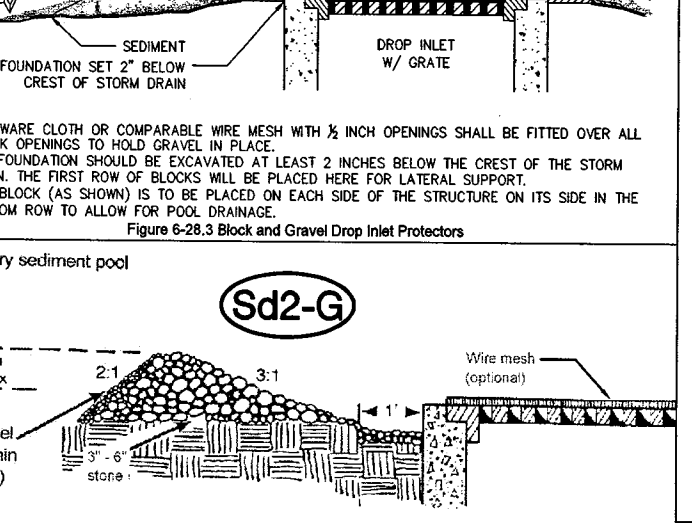
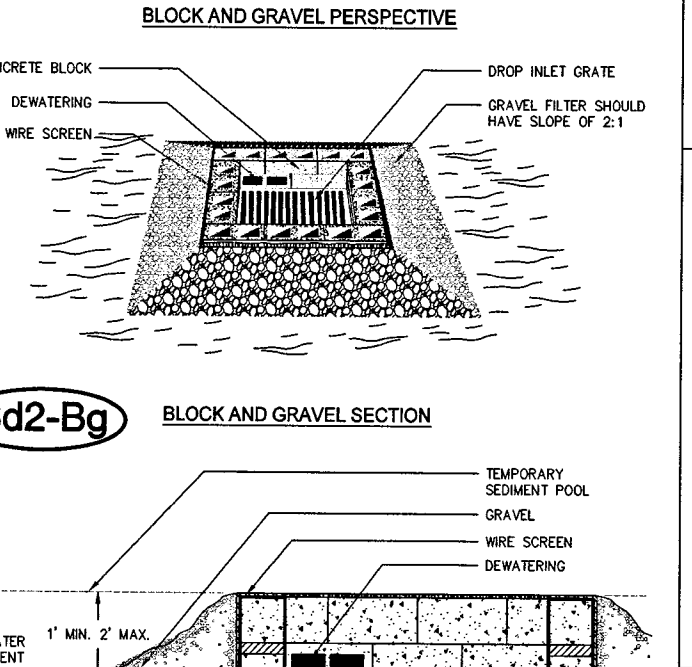
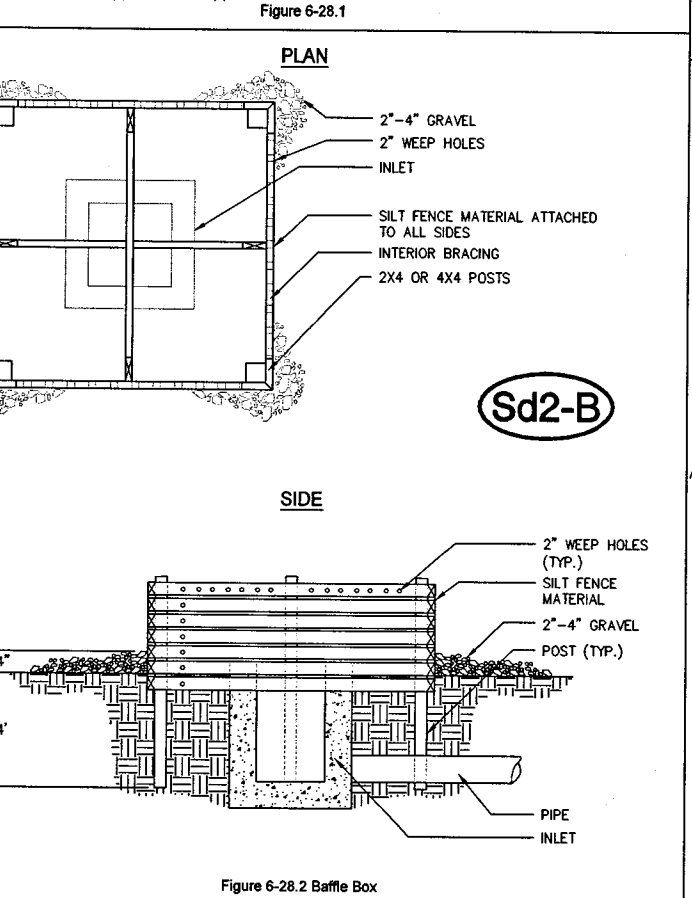
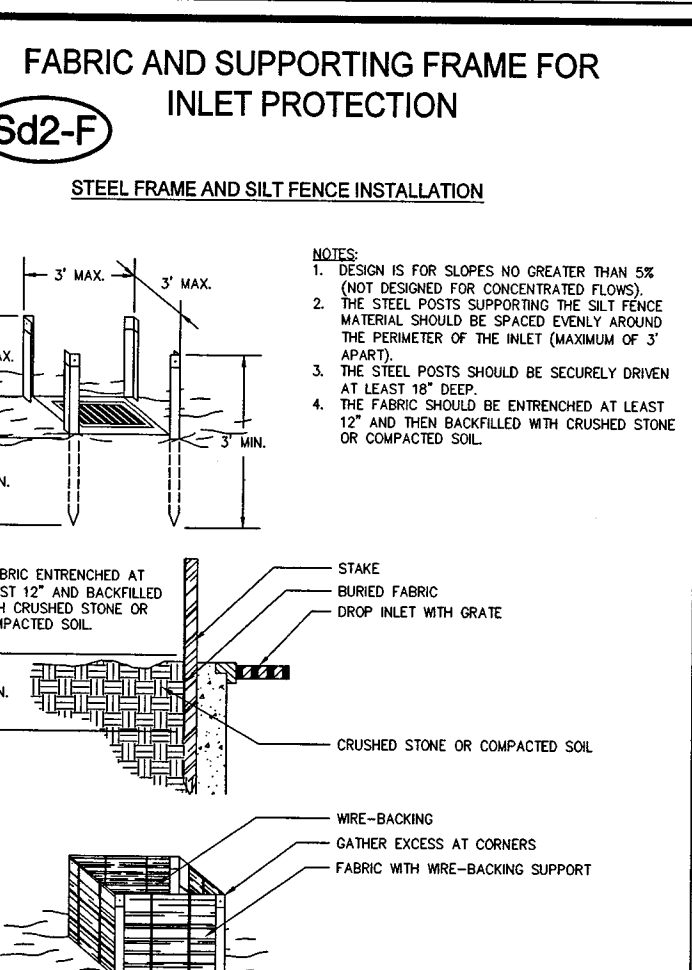
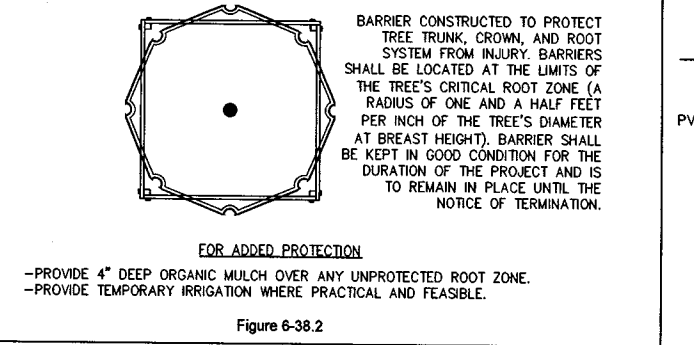
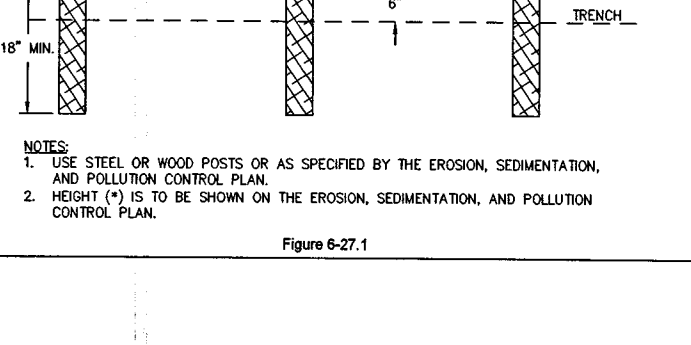
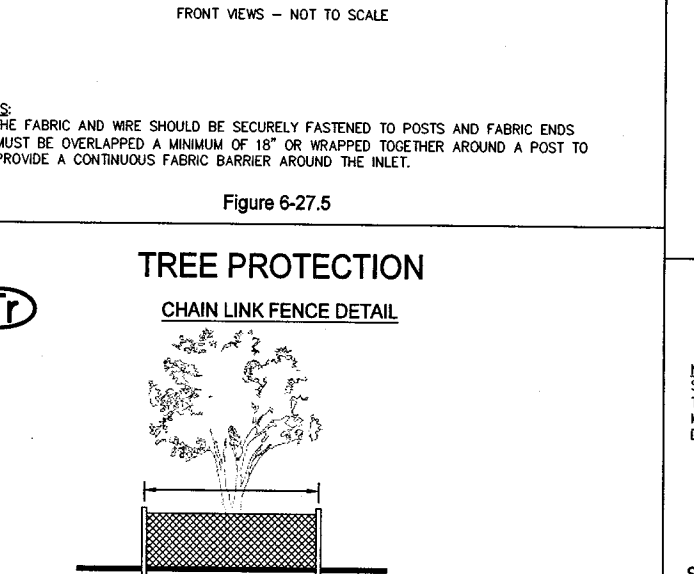
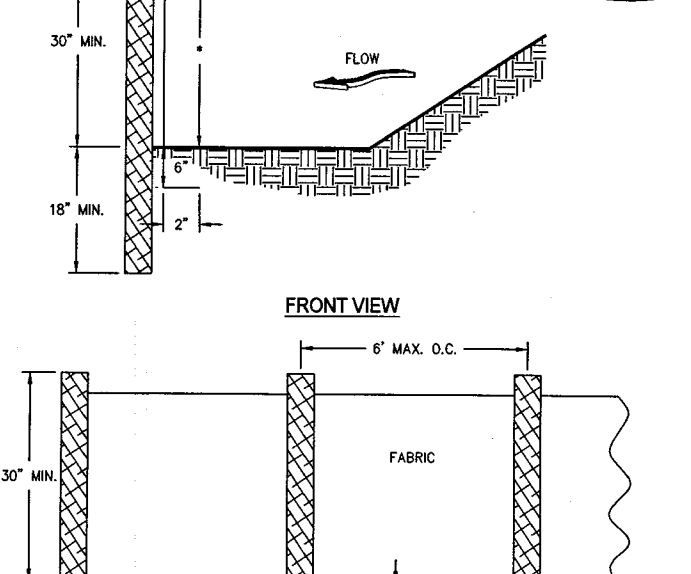
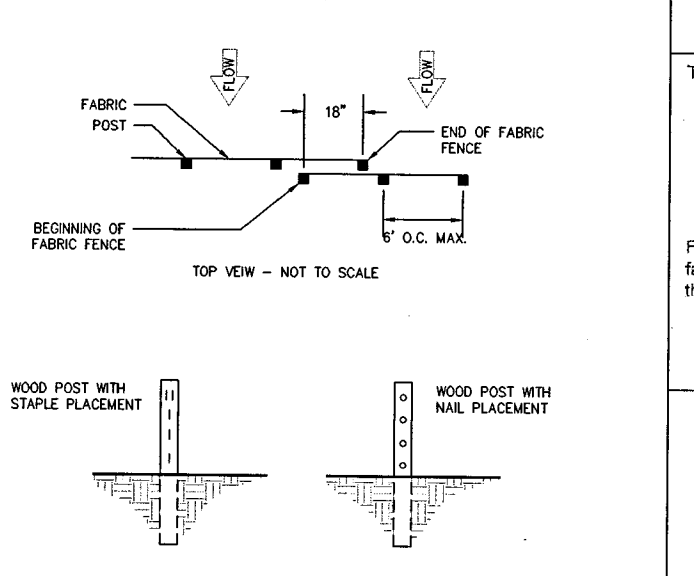
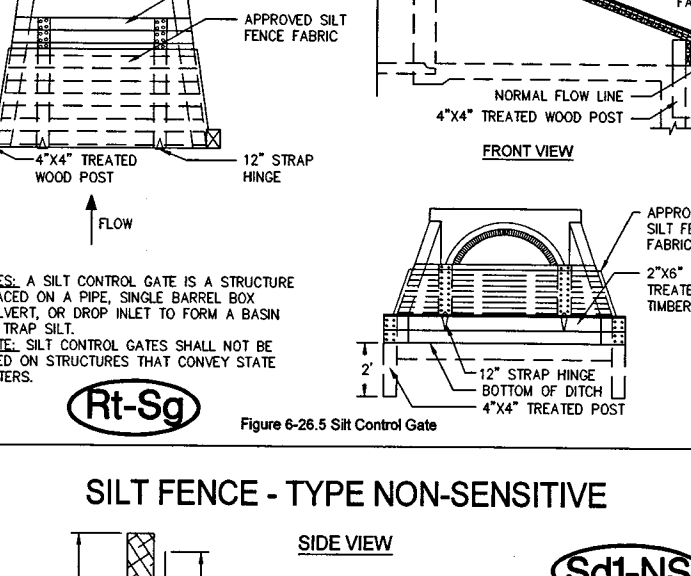
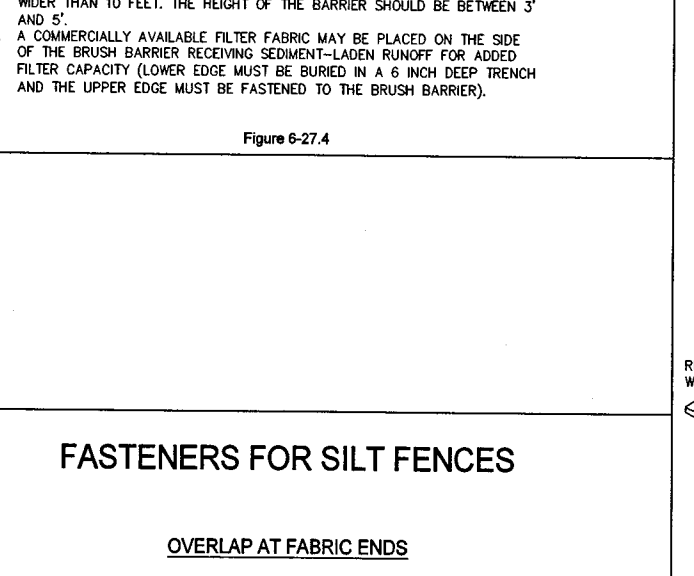
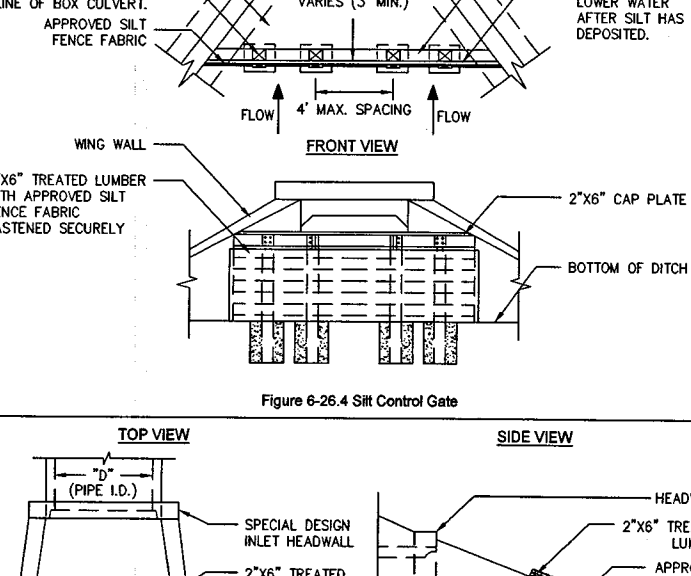
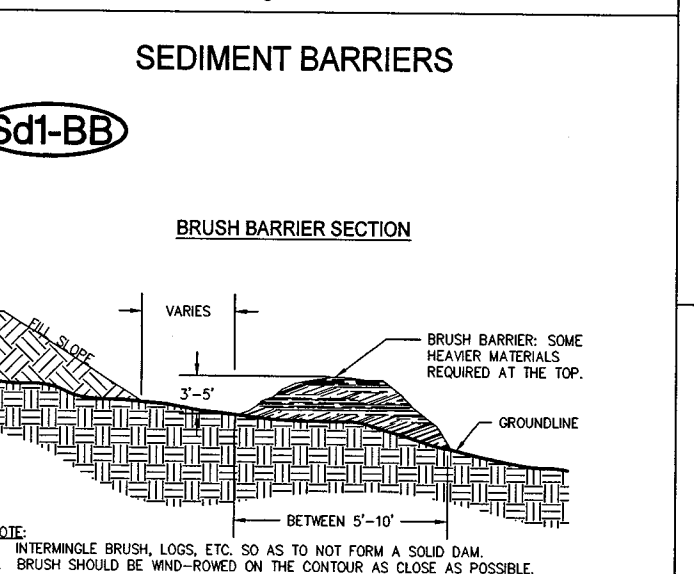
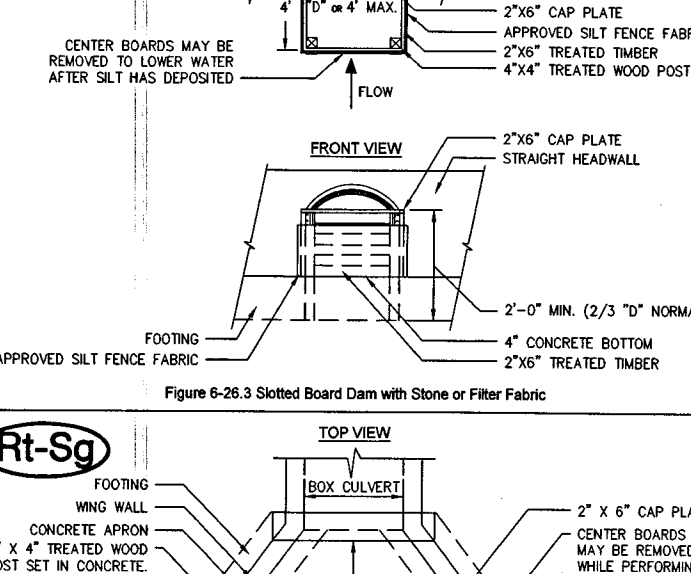
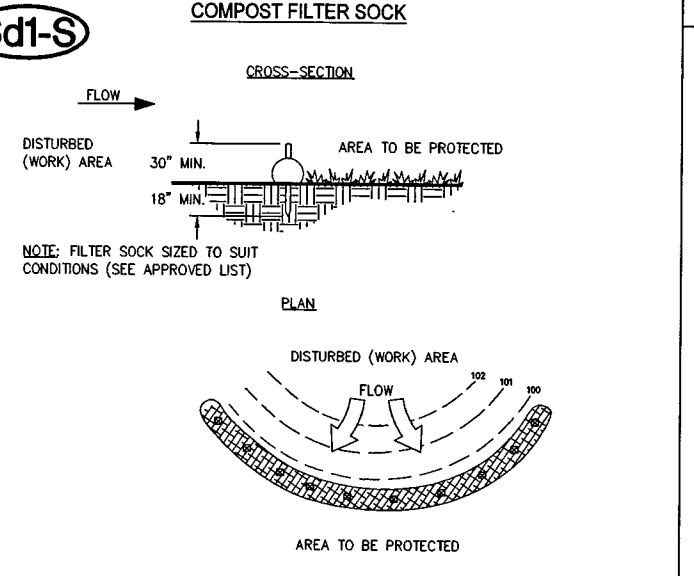
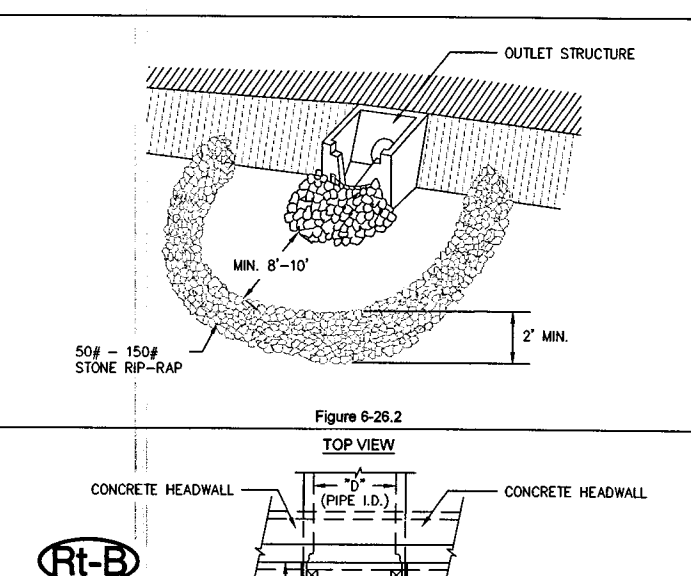
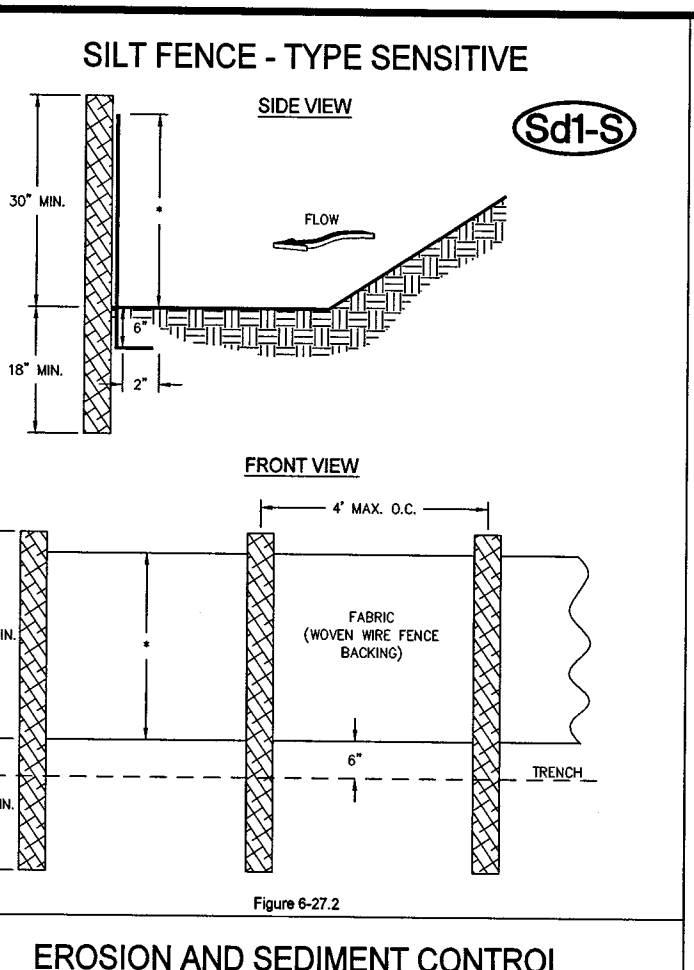
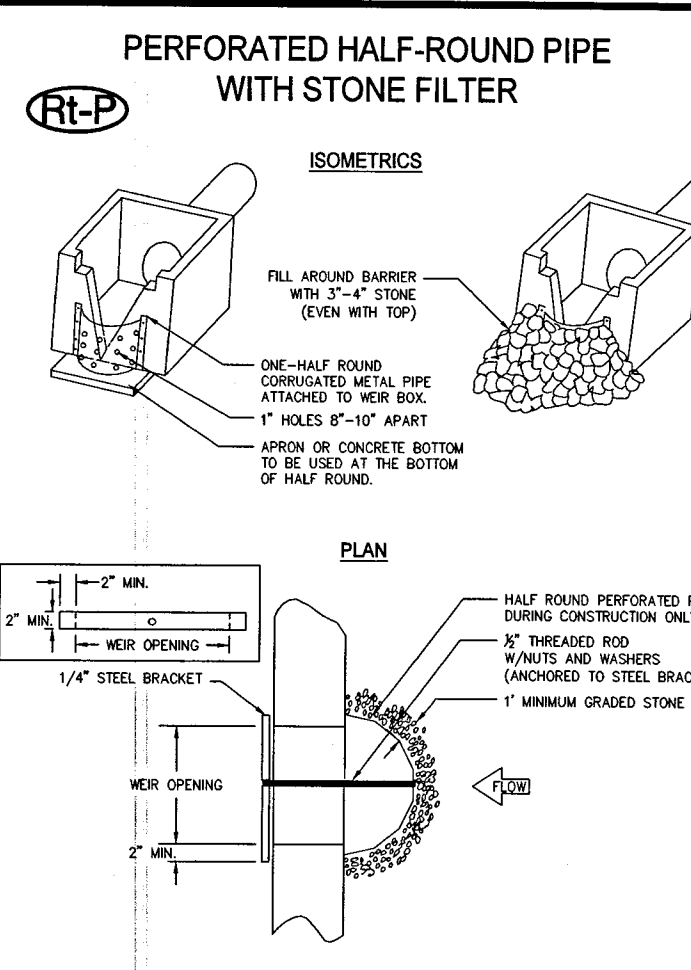
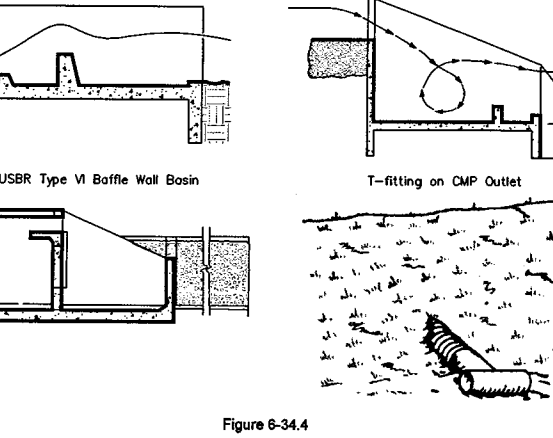
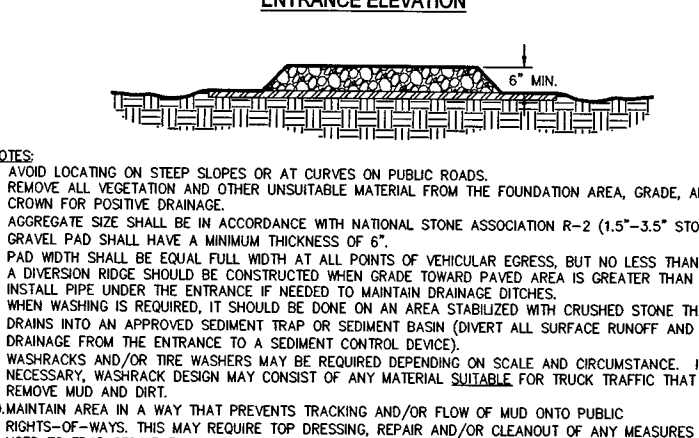
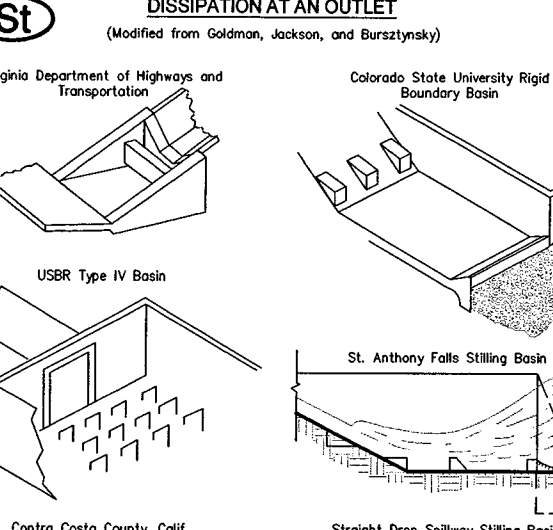
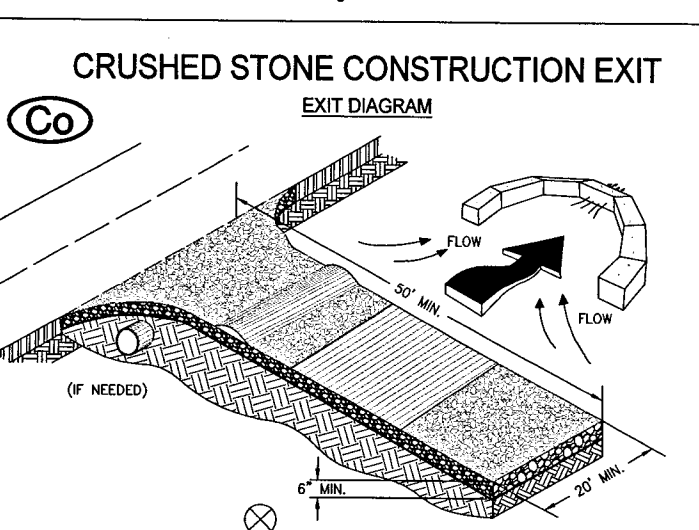
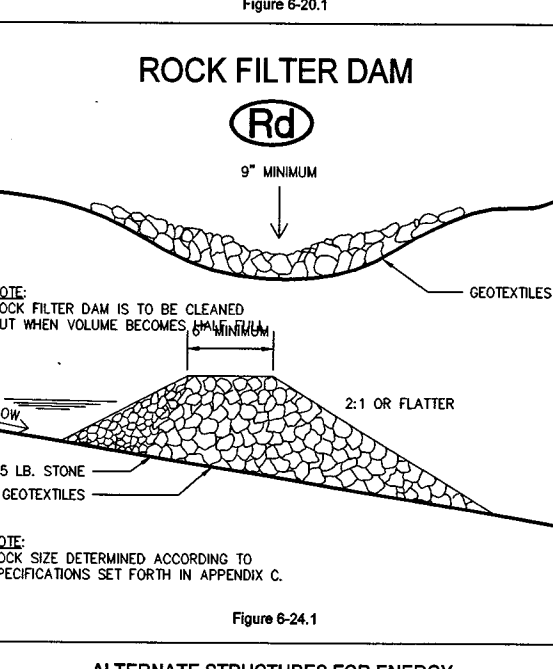
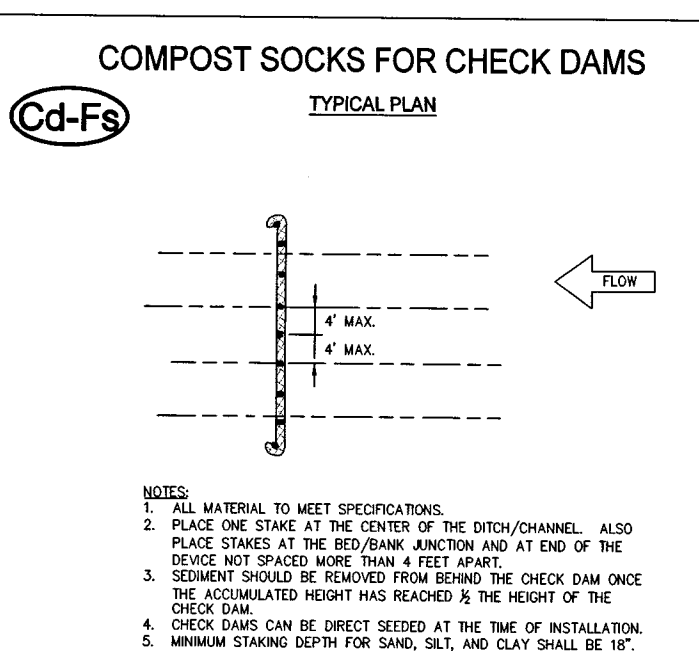
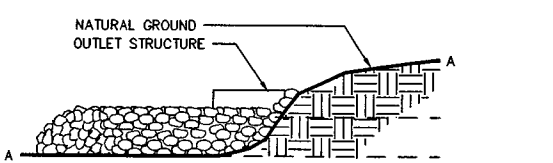
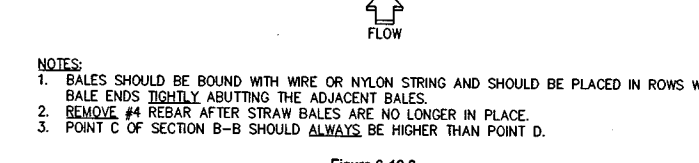
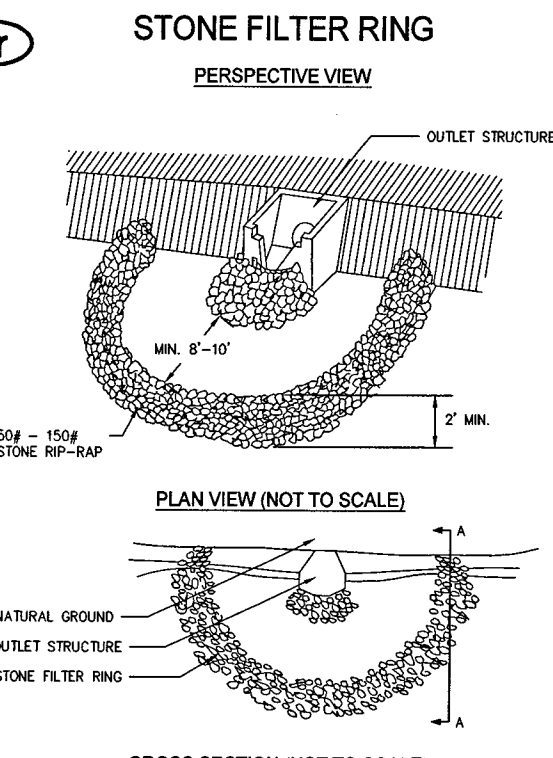
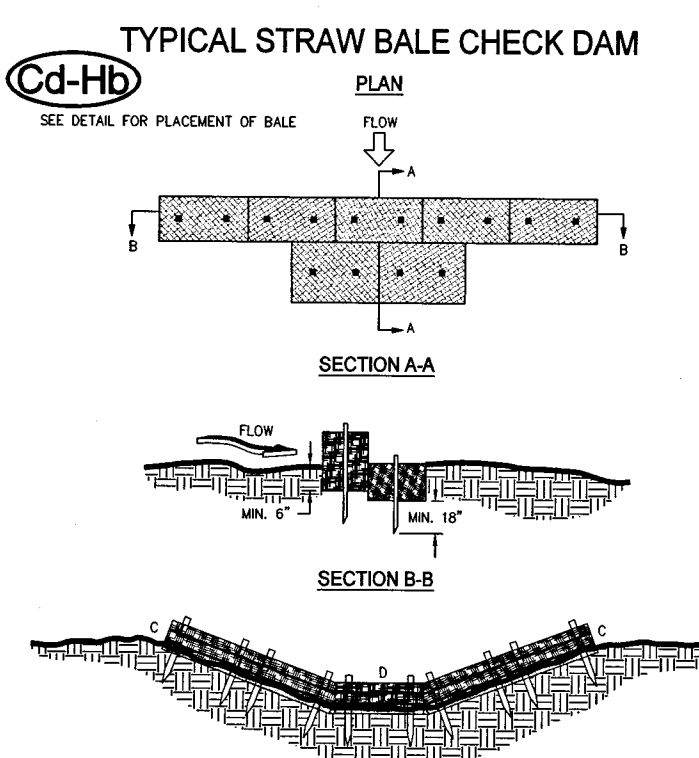
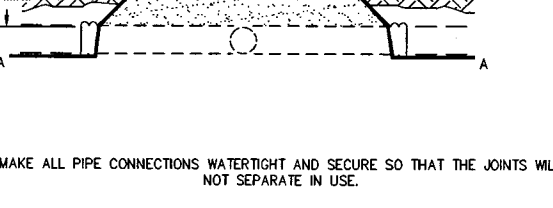
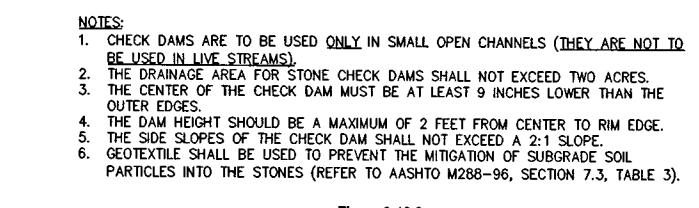
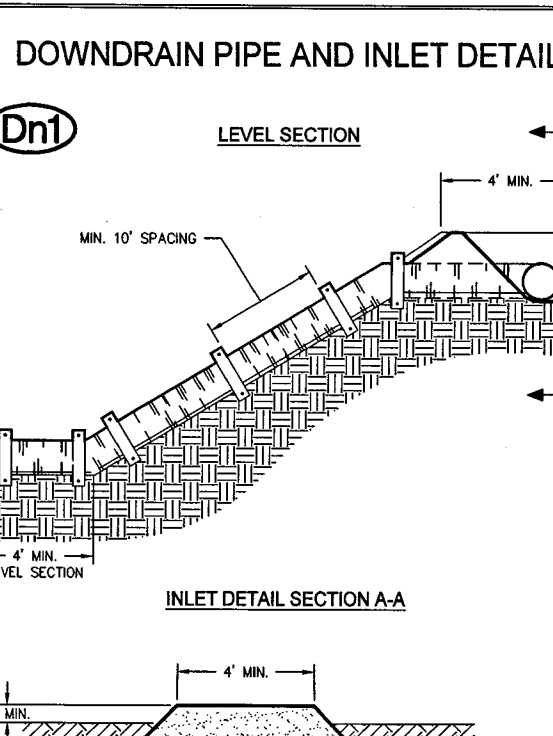
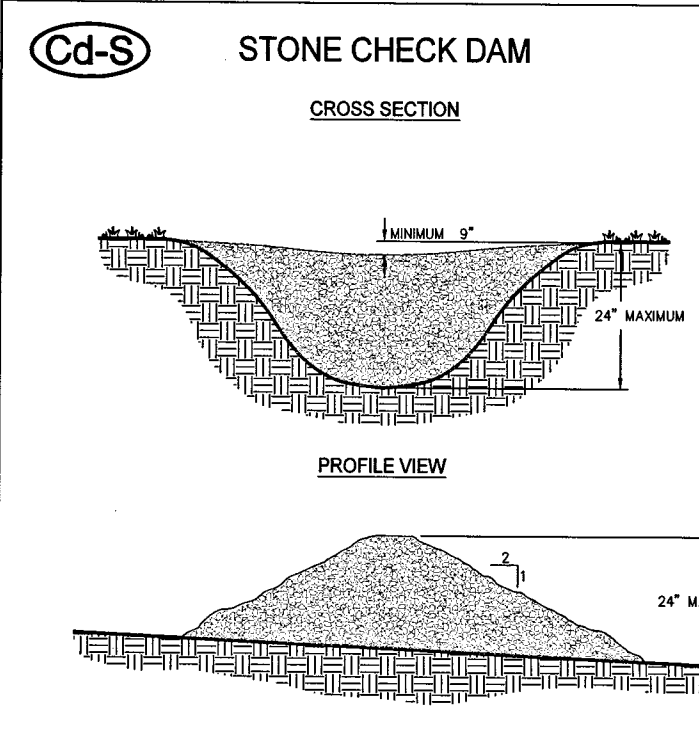
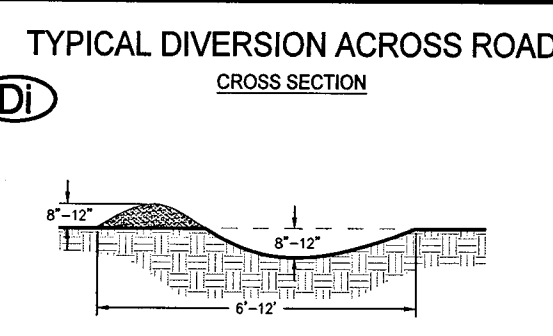
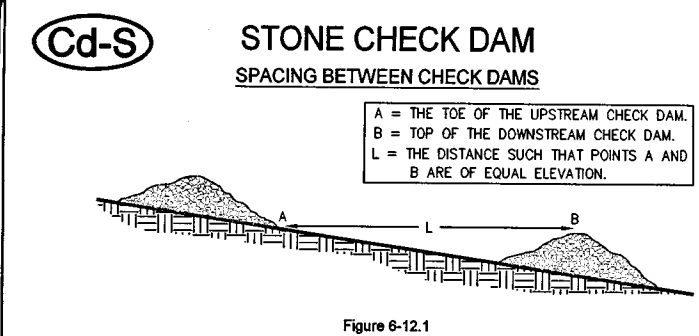
REVISIONS		
REV.	DATE	REVISION REFERENCE
1		
2		
3		
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5		
6		
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8		
9		

SHEET TITLE
**SIGHT DISTANCE PLAN
& PROFILE**



PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE AS SHOWN	ISSUE DATE 10/19/15
SHEET NUMBER 15	

ISSUED FOR CONSTRUCTION



STRUCTURAL PRACTICES	
CODE	DESCRIPTION
Cd-S	A temp. grade control structure, or dam constructed across a swale, drainage ditch or area of concentrated flow. Constructed out of stone.
Cd-Hb	A temp. grade control structure, or dam constructed across a swale, drainage ditch or area of concentrated flow. Constructed out of haybales.
Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
DI	An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Fr	A temporary stone barrier constructed at storm drain inlets and pond outlets.
Rd	A permanent or temporary stone filter dam installed across small streams or drainages.
Rt-B	Slotted board dam with stone filter of filter fabric. A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Rt-P	Perforated half-round pipe with stone filter. A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Rt-Sg	Silt control gate. A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Si	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd1-S	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd1-Sg	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2-B	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-Bg	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-F	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-G	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-P	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-S	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4-A	A small temporary pond that drains a disturbed area so that sediment can settle out.
Sd4-B	A small temporary pond that drains a disturbed area so that sediment can settle out.
Sd4-C	A small temporary pond that drains a disturbed area so that sediment can settle out.
Sd4-D	A small temporary pond that drains a disturbed area so that sediment can settle out.
SK	A buoyant device that releases/draws water from the surface of sediment ponds.
SI	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
TI	A device installed to delineate the protection area for desirable trees, protecting them from injury during construction activity.
Cd-Fs	A temp. grade control structure, or dam constructed across a swale, drainage ditch or area of concentrated flow. Constructed out of haybales.

Gaskins
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Phone: (770) 424-7168
Fax: (770) 424-7593

EMERSON MANOR
SUBDIVISION
LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
COBB COUNTY, GEORGIA
ZONED R-15

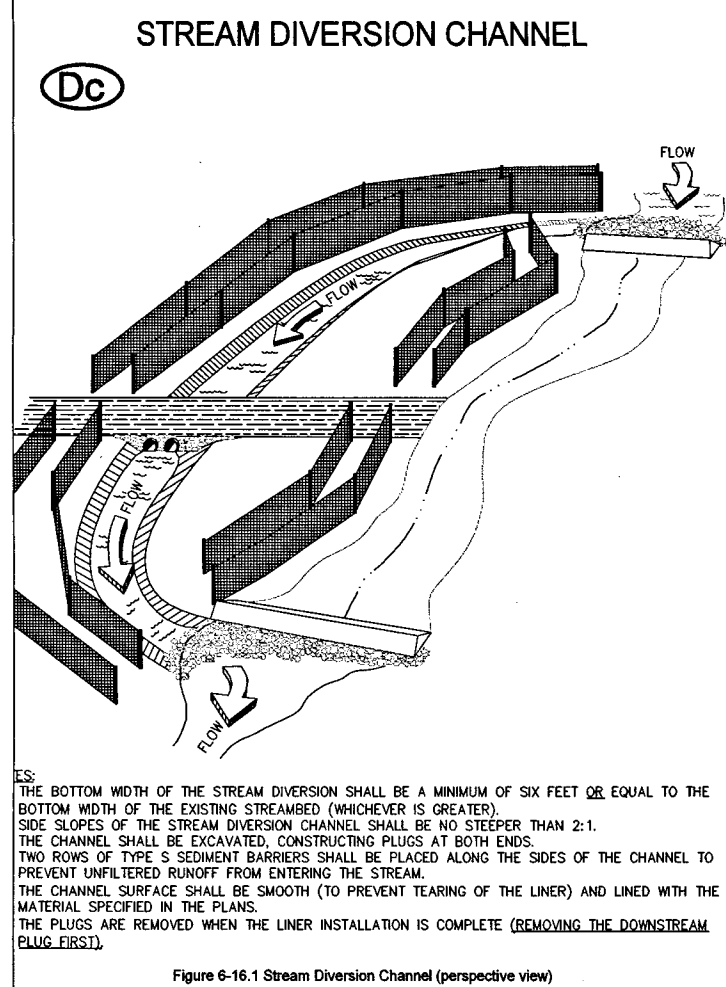
STATE SOL AND WATER CONSERVATION COMMISSION OF
GEORGIA UNIFORM COING SYSTEM

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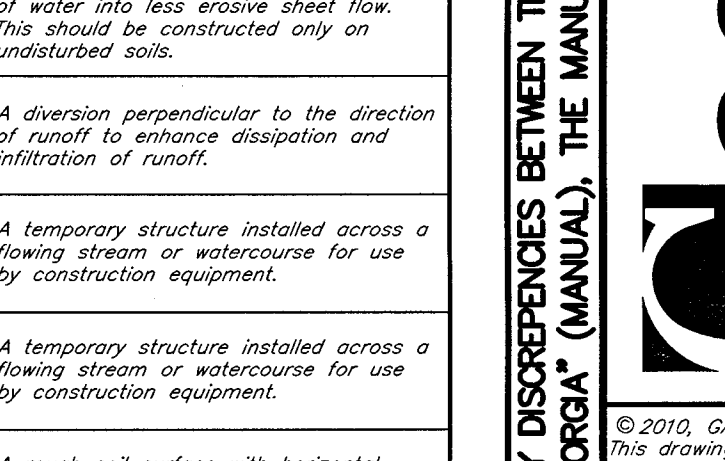
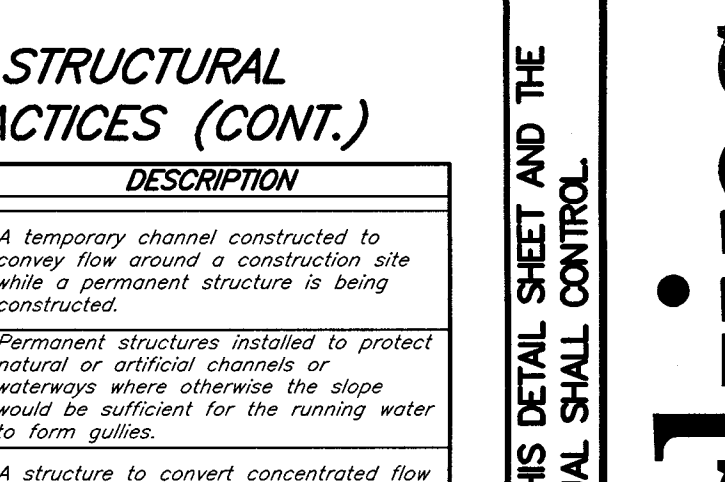
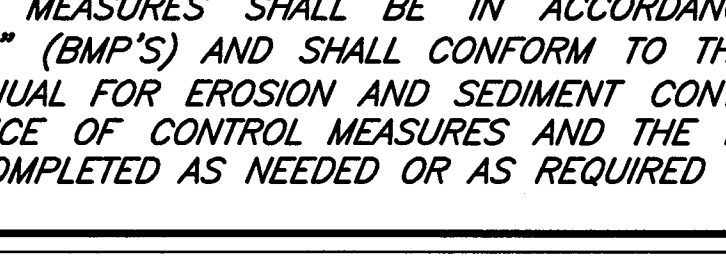
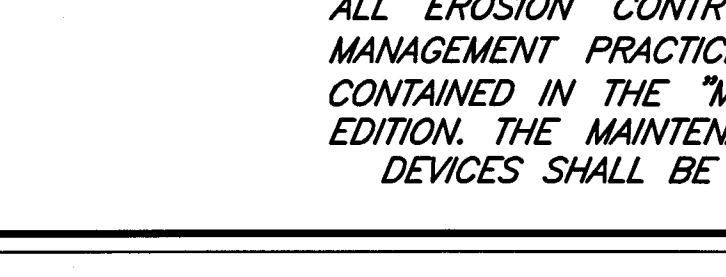
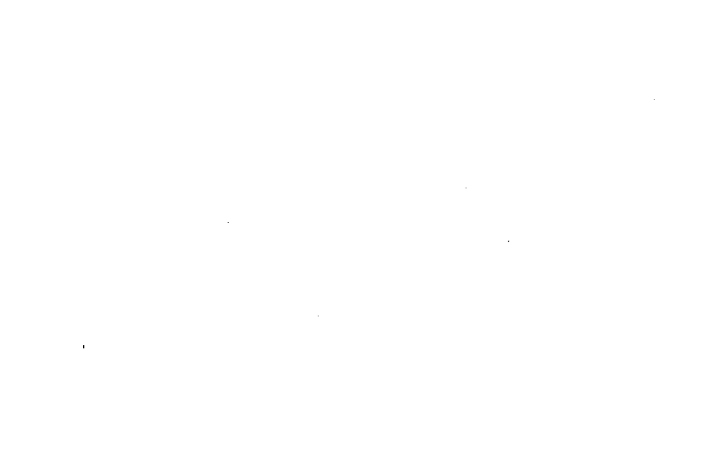
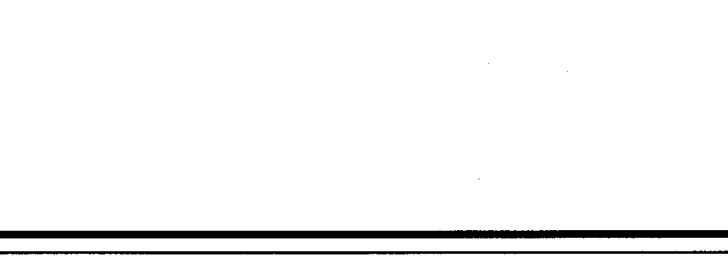
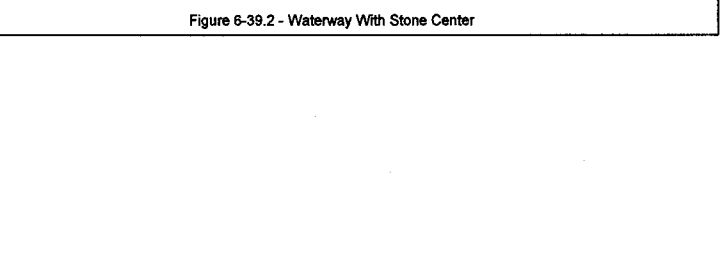
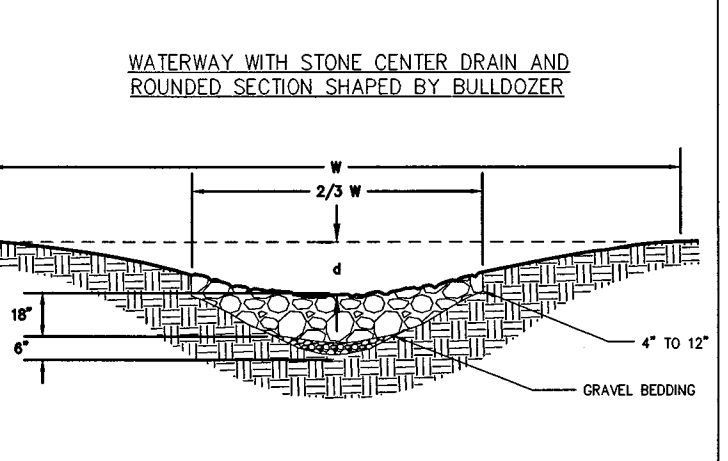
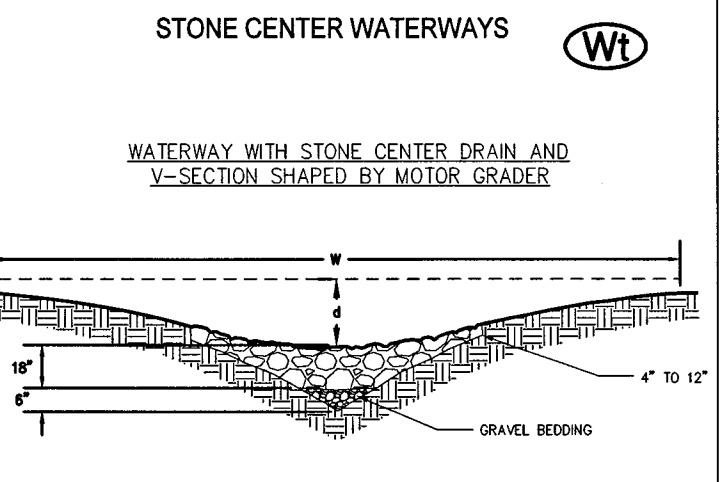
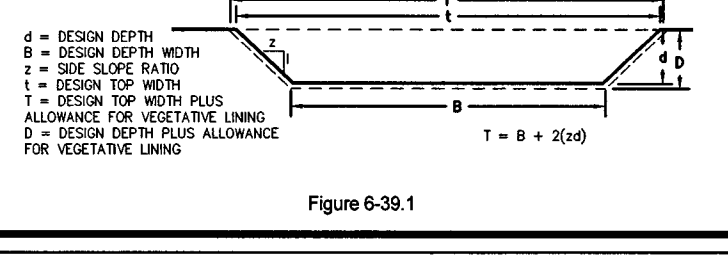
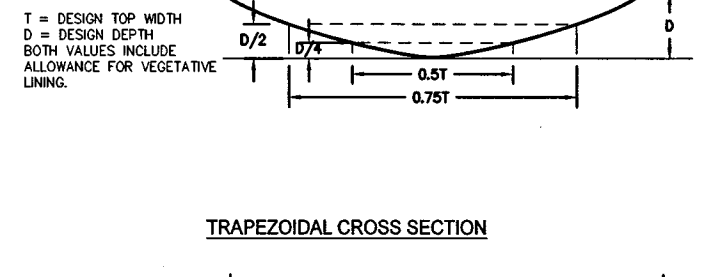
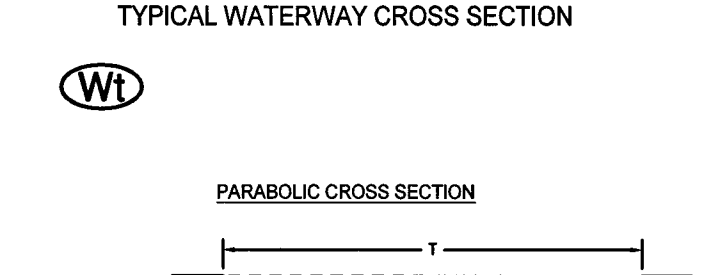
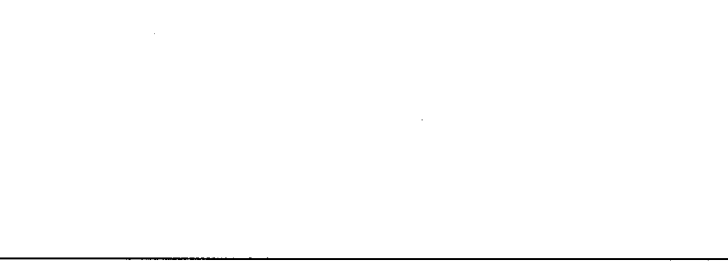
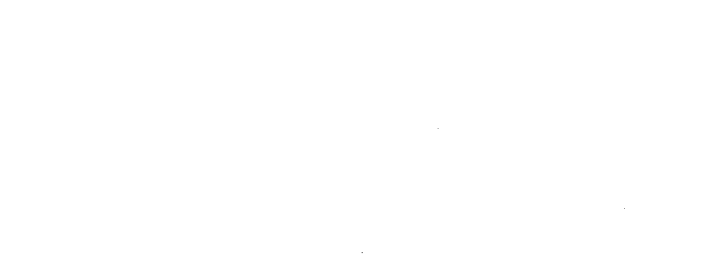
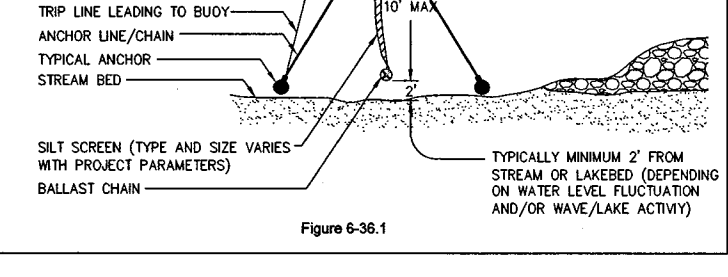
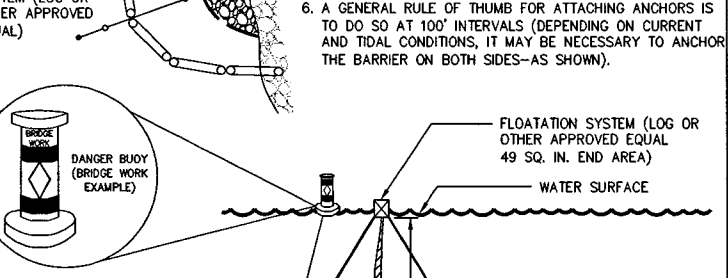
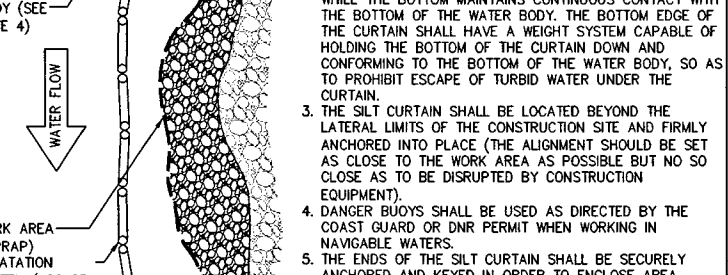
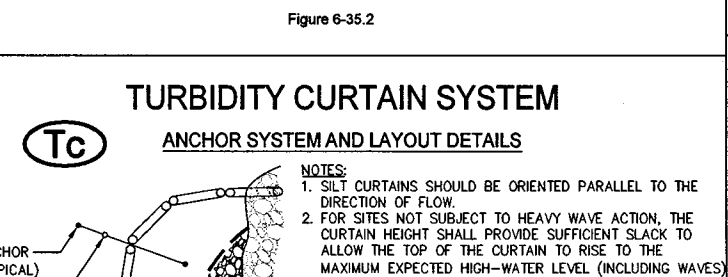
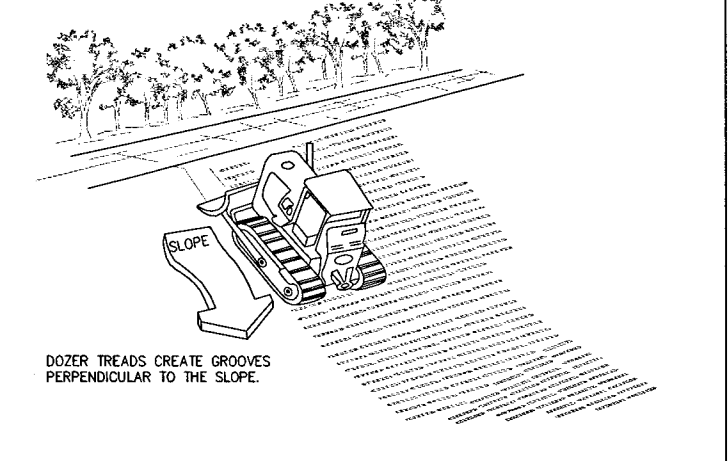
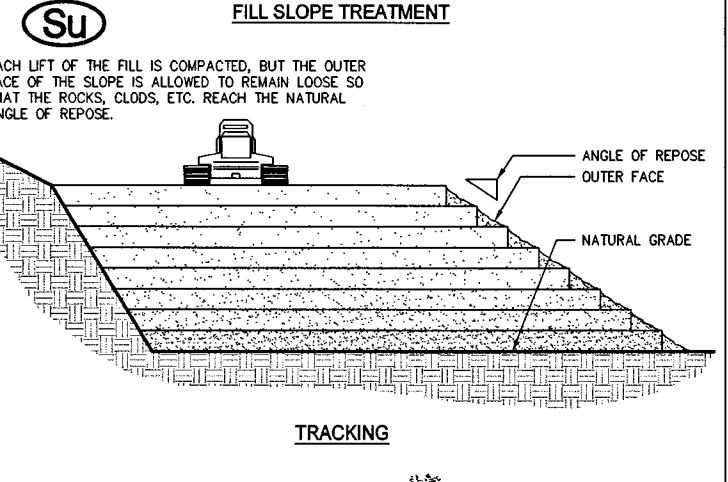
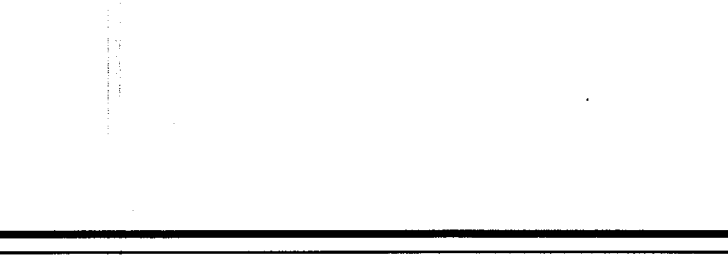
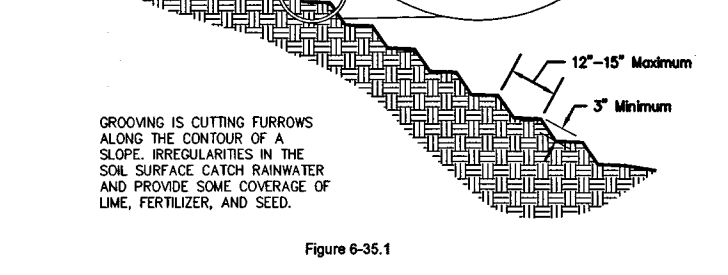
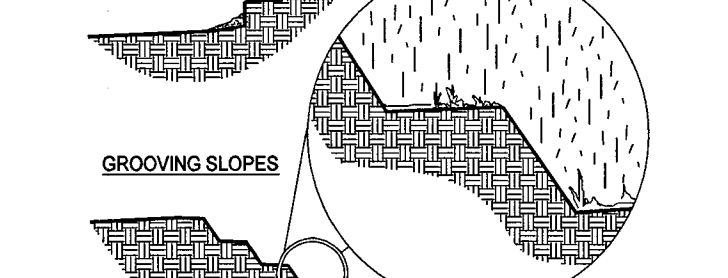
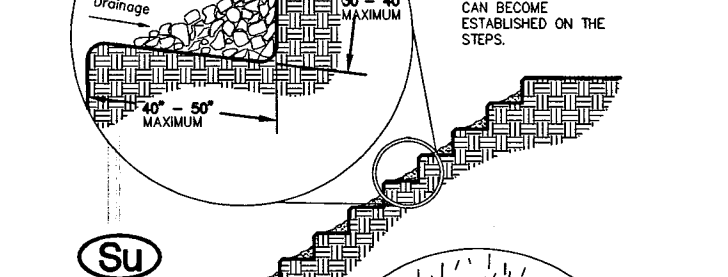
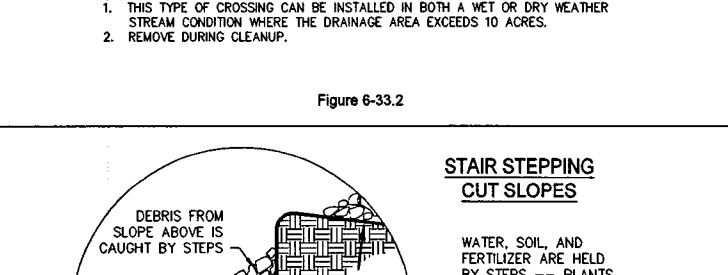
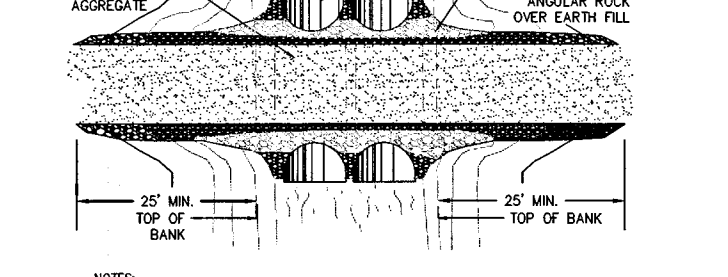
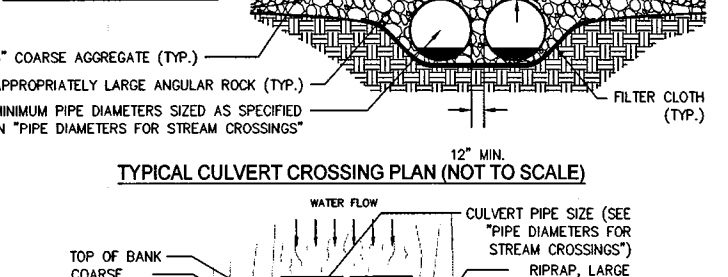
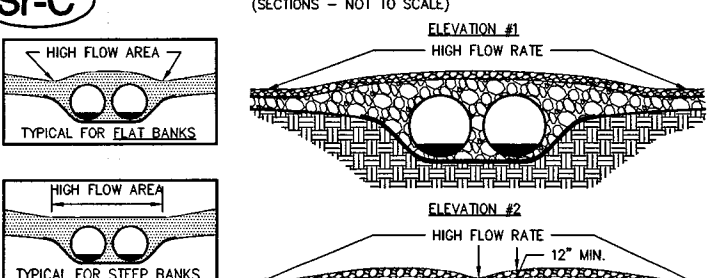
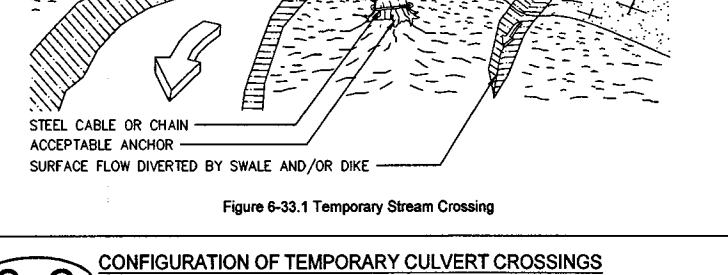
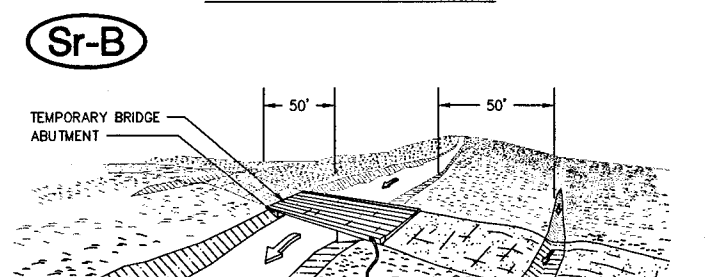
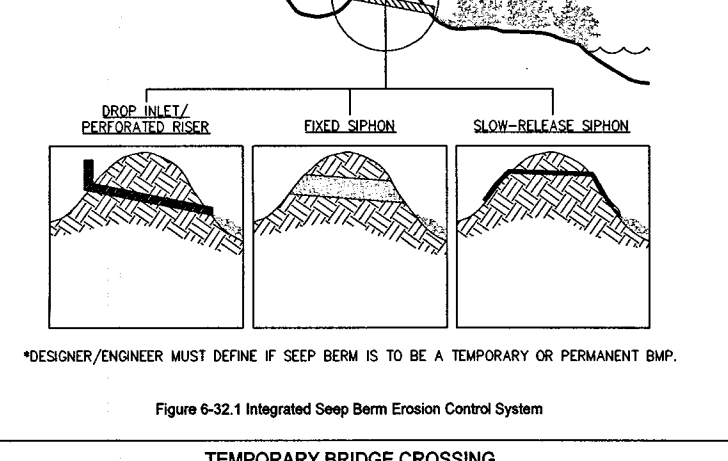
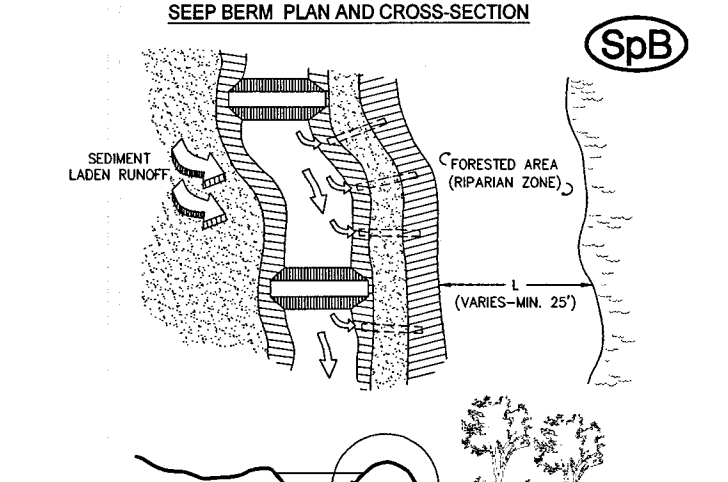
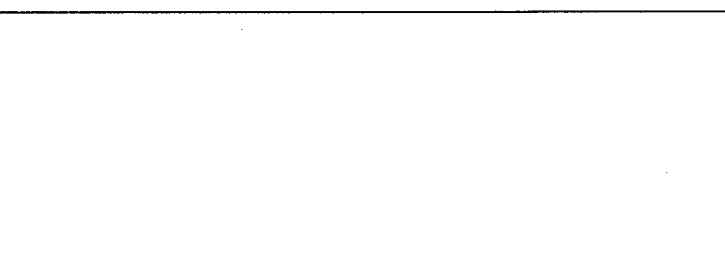
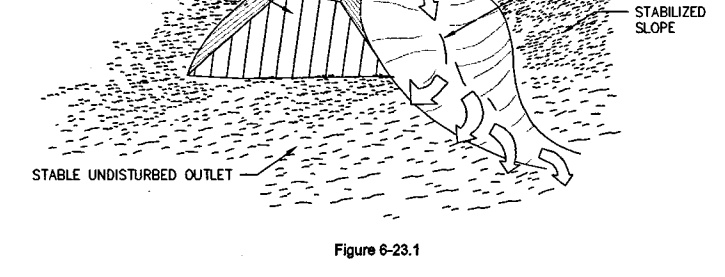
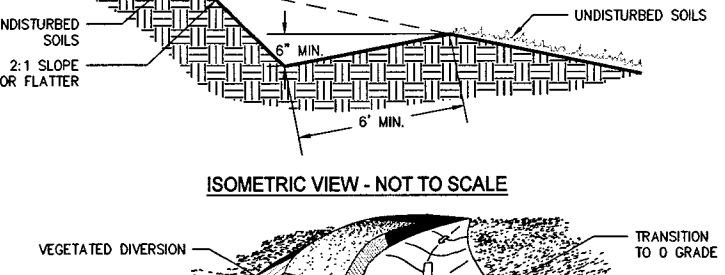
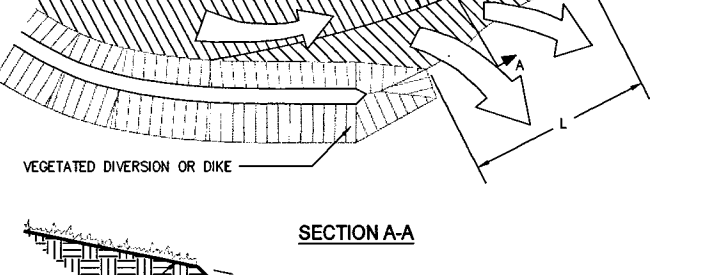
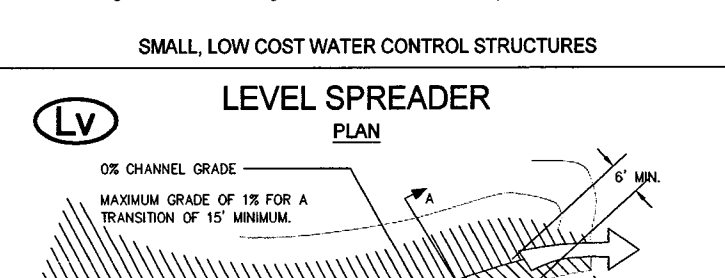
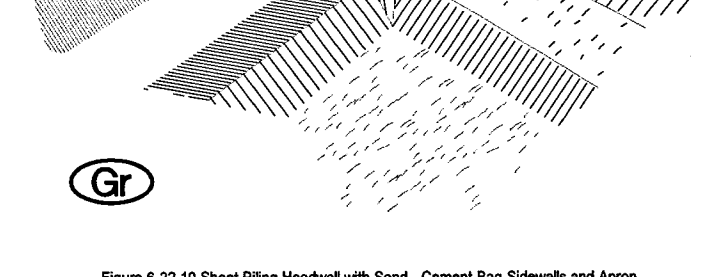
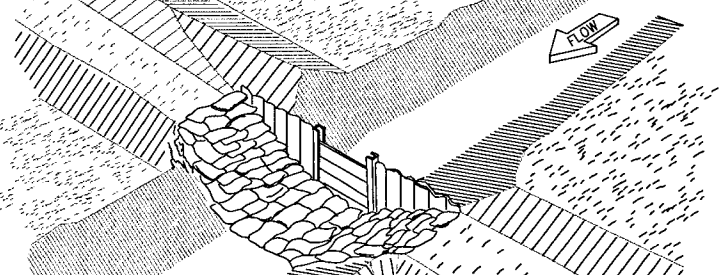
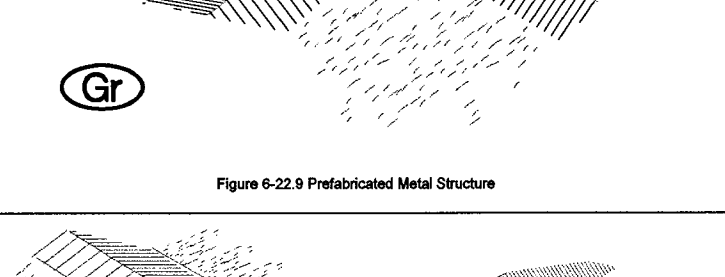
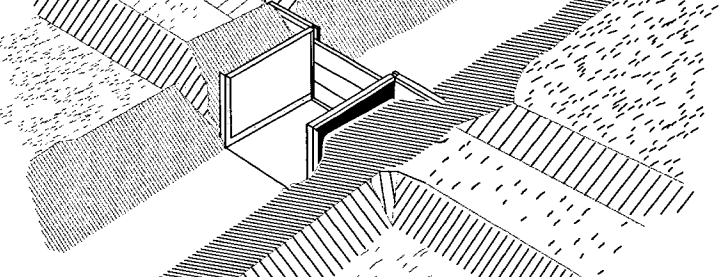
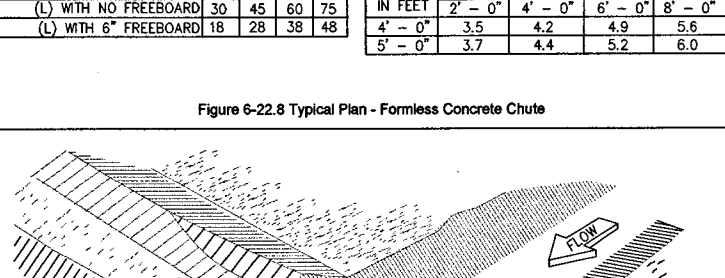
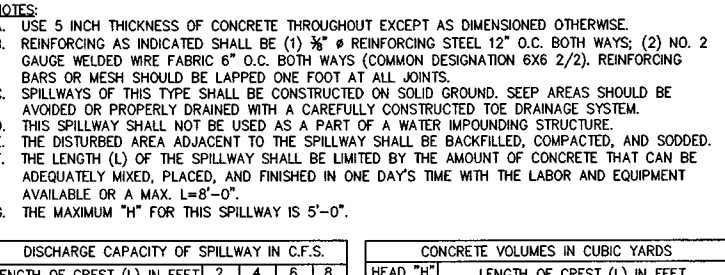
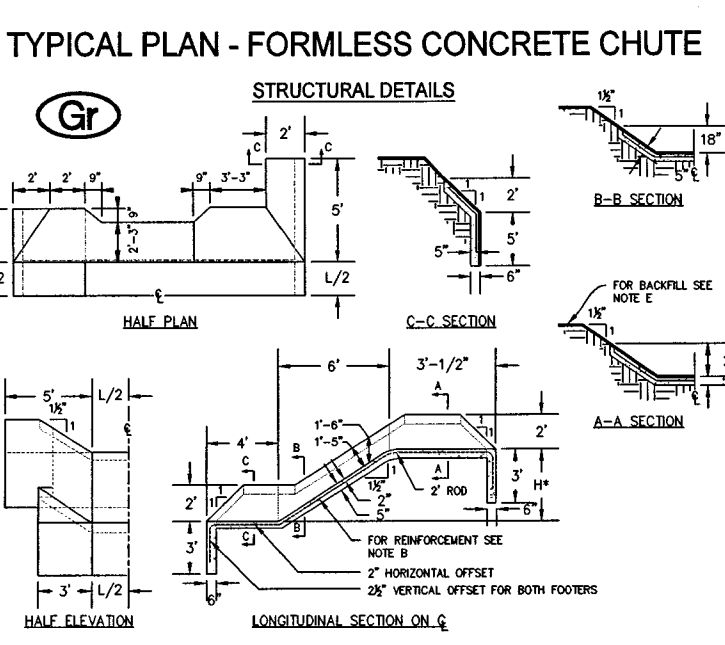
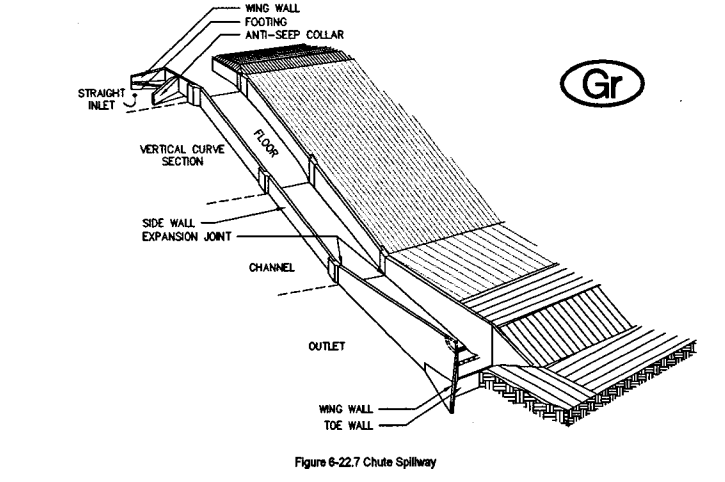
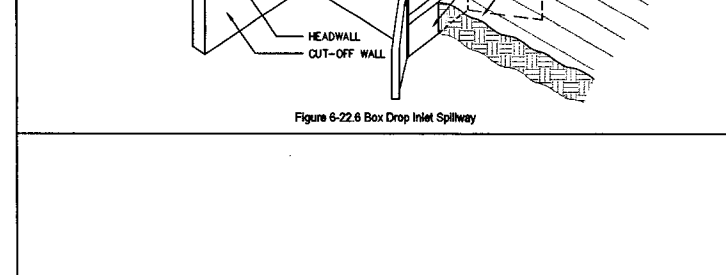
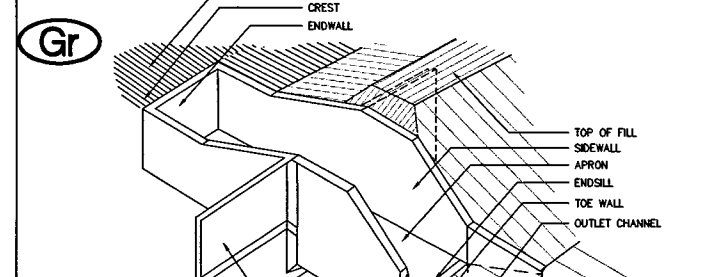
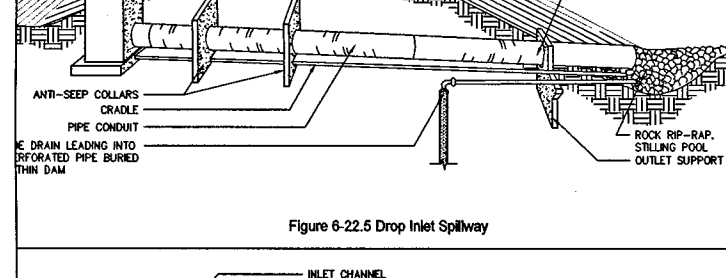
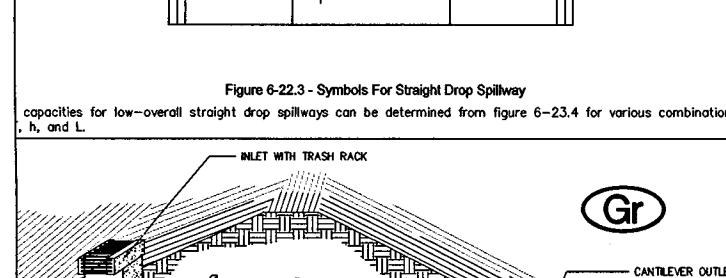
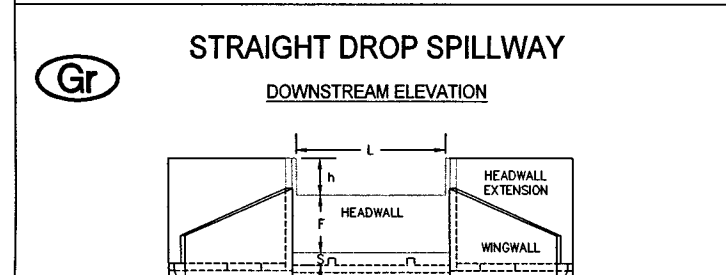
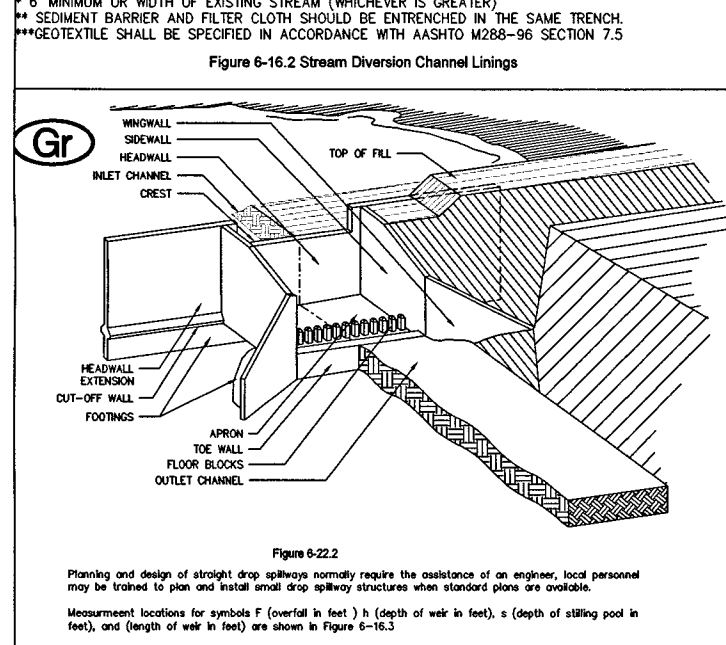
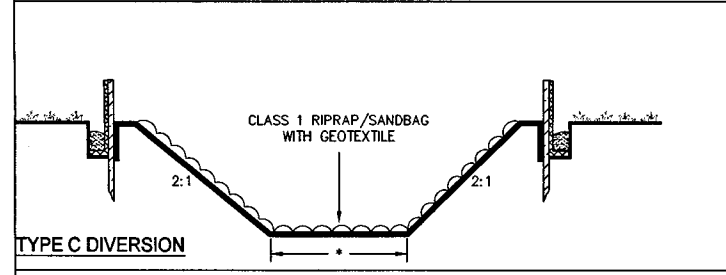
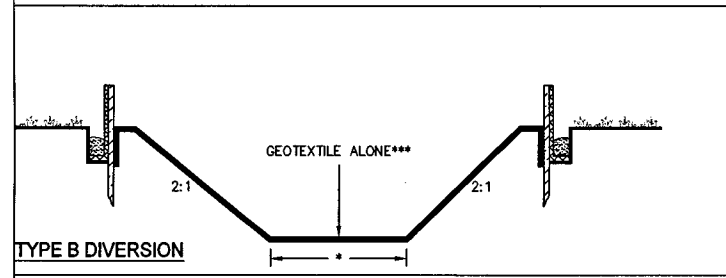
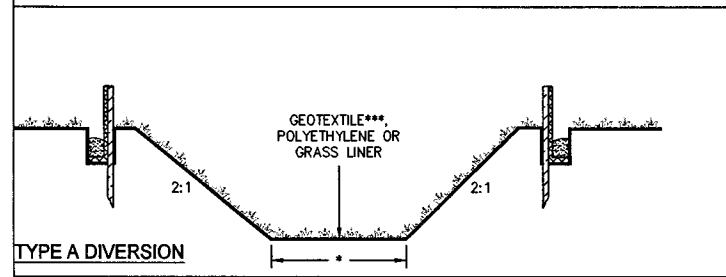
SHEET TITLE
GASWCC EROSION & SEDIMENT CONTROL DETAILS (1 OF 3)

PROJECT I.D. **1502041** FIELD **FIELD**
DRAWN BY **ASH** CHECKED BY **DH**
SCALE **N.T.S.** ISSUE DATE **10/19/15**
SHEET NUMBER **CD1**

ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH CURRENT "BEST MANAGEMENT PRACTICES" (BMP'S) AND SHALL CONFORM TO THE STANDARDS AND SPEC'S CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION. THE MAINTENANCE OF CONTROL MEASURES AND THE INSTALLATION OF ADDITIONAL DEVICES SHALL BE COMPLETED AS NEEDED OR AS REQUIRED BY LOCAL AUTHORITIES.



TO BE SHOWN ON EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN



Ds1 DISTURBED AREA STABILIZATION (WITH MULCH ONLY)

MULCHING OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGLE SEASON EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS COVER OF GREATER OR EQUAL TO 100%.

MULCHING MATERIALS, APPLICATION AND ANCHORING:

- COVERING: APPLIED UNIFORMLY BY HAND OR MECHANICAL EQUIPMENT, SHALL BE PRESSED INTO THE SOIL WITH A DISK HARROW OR A PACKER DISK. IF SPREAD BY BLOWER-TYPE EQUIPMENT, ASPHALT EMULSION SHALL BE SPRAWLED OVER THE MULCH AS IT IS EJECTED FROM THE MACHINE - 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. REFER TO MANUAL "TO - TACKIFIERS AND BINDERS".
- WOOD WASTE (CHIPS, SAWDUST OR BARK), SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES DEEP. NETTING OF APPROPRIATE SIZE SHALL BE USED TO ANCHOR.
- CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED UNIFORMLY AT A RATE OF 1,200 GALLONS PER ACRE (FOR 1/4 GALLON PER S.Y.). USE ONLY IF PERMITTED BY LOCAL GOVERNMENT AUTHORITIES.
- POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. ANCHOR TRENCHED AT TOP AS WELL AS INCREASINGLY AS NECESSARY.

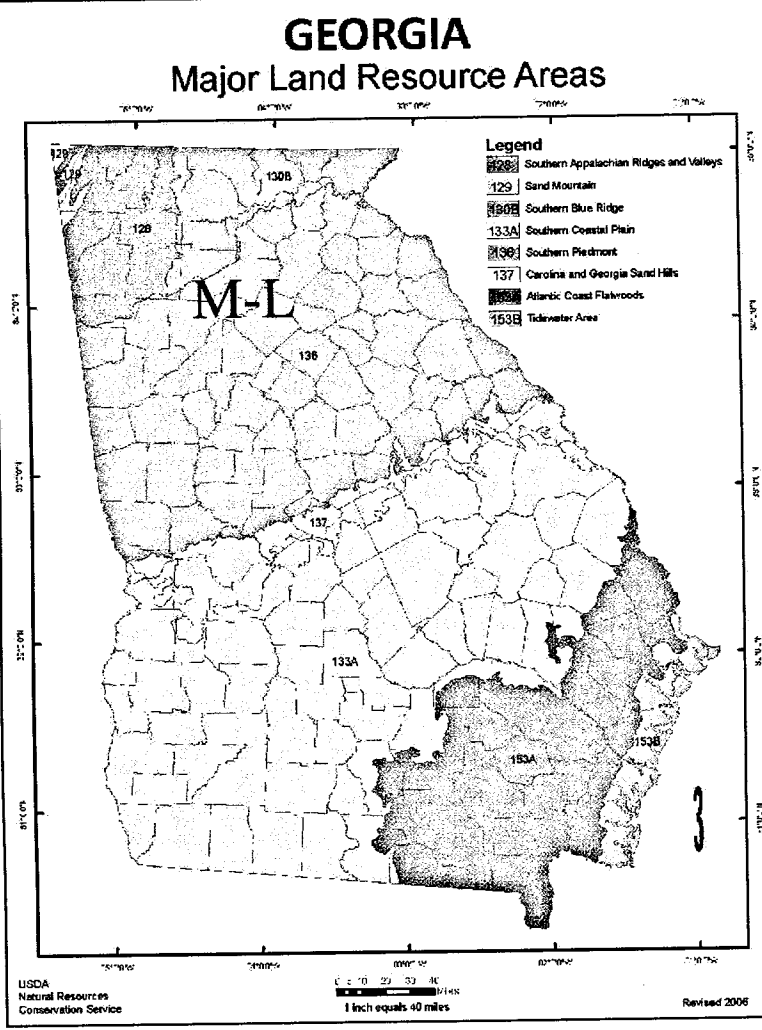


Figure 6-4.1

Ds2 DISTURBED AREA STABILIZATION (TEMP)

MULCHING OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. TEMPORARY GRASSING CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN 6 MONTHS.

SEEDING PREPARATION:

- NOT REQUIRED WITH A HYDRAULIC SEEDER.
- WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE TILLED, TRENCHED OR OTHERWISE SCARIFIED.

LIME & FERTILIZER:

- AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. SEE EROSION CONTROL PLAN FOR FERTILIZER RATES. LIME AND FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPERS OR CHISEL.

SEEDING:

- SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTI-PACKER-SEEDER OR HYDRAULIC SEEDER. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER.
- SEE BELOW FOR SITE-SPECIFIC SEEDING SPECIES, RATES AND PLANTING DATES.

IRRIGATION:

- DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION.

Ds2 SITE SPECIFIC TEMPORARY SEEDING SPECIES, RATES AND PLANTING DATES

Georgia Soil & Water Conservation Commission Field Manual for Erosion and Sediment Control in Georgia (amended 2002) [DS2] Table 1 - Some Temporary Plant Species, Seeding Rates and Planting Dates Major Land Resource Area (MLRA) Refer to Figure 6-4.1					
Species	Broadcast Rates per 1000 ± f. (lb/a)	Planting Dates by Region	M.L.	P	C
Barley					
alone	3.3	9/15-10/31	9/15-11/15	10/1-12/31	
in mixtures	0.6				
Lepedeza					
annual	0.9	3/1-3/31	3/1-3/31	2/1-2/28	
in mixtures	0.2				
Lovegrass					
weeping	0.1	4/1-5/31	4/1-5/31	3/1-5/31	
in mixtures	0.05				
Millet					
weeping	0.9	4/1-5/31	4/1-5/31	4/15-6/30	
in mixtures	0.2				
Oats					
alone	2.99	9/15-11/15	9/15-11/15	9/15-11/15	
in mixtures	0.7				
Rye					
alone	3.9	8/15-10/31	9/15-11/30	10/1-13/31	
in mixtures	0.6				
Ryegrass					
alone	0.9	8/15-11/15	9/1-12/15	9/15-12/31	
Sudangrass					
alone	1.4	5/1-7/31	5/1-7/31	4/1-7/31	
Triticale					
alone	3.3	NA	NA	10/15-11/30	
in mixtures	0.6				
Wheat					
alone	4.1	9/15-11/30	10/1-12/15	10/15-12/31	
in mixtures	0.7				

Ds2 FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

Georgia Soil & Water Conservation Commission Field Manual for Erosion and Sediment Control in Georgia (amended 2002) [DS2] Table 2 - Fertilizer Requirements for Temporary Vegetation Major Land Resource Area (MLRA) Refer to Figure 6-4.1					
Species	Planting Year	Fertilizer (N-P-K)	Rates (lbs/acre)	N Top Dressing Rate (lbs/acre)	
Cool Season Grasses	First	6-12-12	1500	50-100	
	Second	6-12-12	1000	—	
	Maintenance	10-10-10	—	—	
Cool Season Grasses & Legumes	First	6-12-12	1500	0-30	
	Second	6-10-10	1000	—	
	Maintenance	0-10-10	400	—	
Warm Season Grasses	First	10-10-10	500	30	
	Second	6-12-12	1500	30-100	
	Maintenance	6-12-12	800	30-100	

Ds3 DISTURBED AREA STABILIZATION (PERMANENT)

THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OR SODDING (DS4) SHALL BE APPLIED IMMEDIATELY TO ALL AREAS AT FINAL GRADE.

LIME & FERTILIZER:

- AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TO TWO TONS PER ACRE. SEE EROSION CONTROL PLAN FOR FERTILIZER RATES.
- IF HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLOTTED MANNER.
- IF APPLIED BY HAND, FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPERS OR CHISEL.

PLANT SELECTION:

- SEE BELOW FOR SITE-SPECIFIC SEEDING SPECIES, RATES AND PLANTING DATES.

SEEDING PREPARATION:

- MAY NOT BE REQUIRED WHERE A HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED.
- WHERE CONVENTIONAL SEEDING IS TO BE USED:
- BROADCAST PLANTINGS - TILL 4-6 INCHES OF SOIL TO ALLEVIATE COMPACTION.
- INCORPORATE LIME AND FERTILIZER, AND SMOOTH/FIRM THE SOIL. TILL ON THE CONTOUR WHERE POSSIBLE.
- INDIVIDUAL PLANTS - SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS OR DOUBLE PLANTING. HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.

INOCULANTS:

- ALL LEGUME SEED SHALL BE INOCULATED WITH APPROPRIATE NITROGEN-FIXING BACTERIA. ALL INOCULANTS SHALL BE A PURE CULTURE PREPARED SPECIFICALLY FOR THE SEED SPECIES AND USED WITHIN THE DATES ON THE CONTAINER.

PLANTING:

- ALL LEGUME SEED SHALL BE INCLUDED IN MIXTURE AS DESCRIBED IN LIME & FERTILIZER SECTION ABOVE.
- CONVENTIONAL SEEDING - ON A FRESHLY PREPARED AND FIRMED SEEDBED, SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTI-PACKER-SEEDER OR HYDRAULIC SEEDER.
- INDIVIDUAL PLANTS - PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS.

MULCHING:

- SEE DS1 - DISTURBED AREA WITH MULCHING ONLY FOR SPECIFICATIONS.

ANCHORING MULCH:

- SEE DS1 - DISTURBED AREA WITH MULCHING ONLY FOR SPECIFICATIONS.

SEEDING MATERIAL:

- GRASS STRAW - 4"-6" DEPTH
- GRASS HAY - 4"-6" DEPTH
- PINE NEEDLES - 3"-5" DEPTH
- WOOD WASTE - 4"-6" DEPTH

IRRIGATION:

- IRRIGATION WILL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.
- TOPDRESSING, SECOND-YEAR AND MAINTENANCE FERTILIZERS:
- TO BE APPLIED ON ALL TEMPORARY AND PERMANENT SPECIES PLANTED ALONE OR IN MIXTURES WITH OTHER SPECIES. SEE EROSION CONTROL PLAN FOR FERTILIZER RATES.

LIME MAINTENANCE APPLICATION:

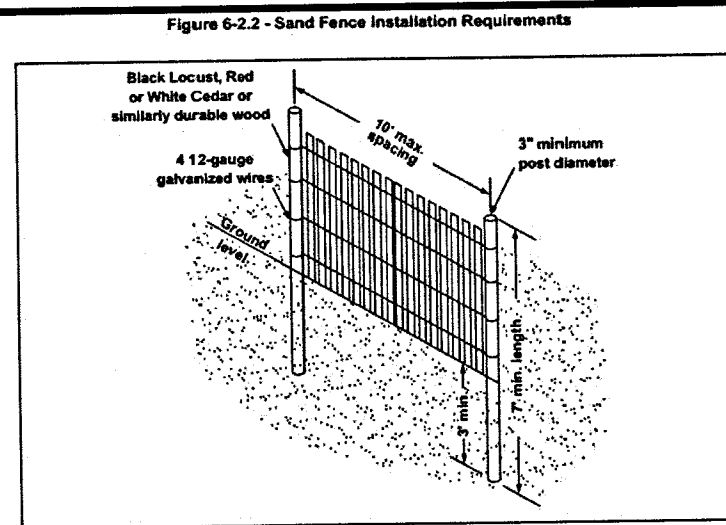
- APPLY ONE TON OF AGRICULTURAL LIME EVERY 4 TO 6 YEARS OR AS INDICATED BY SOIL TESTS.

Ds3 SITE-SPECIFIC PERMANENT PLANT SPECIES, SEEDING RATES AND PLANTING DATES

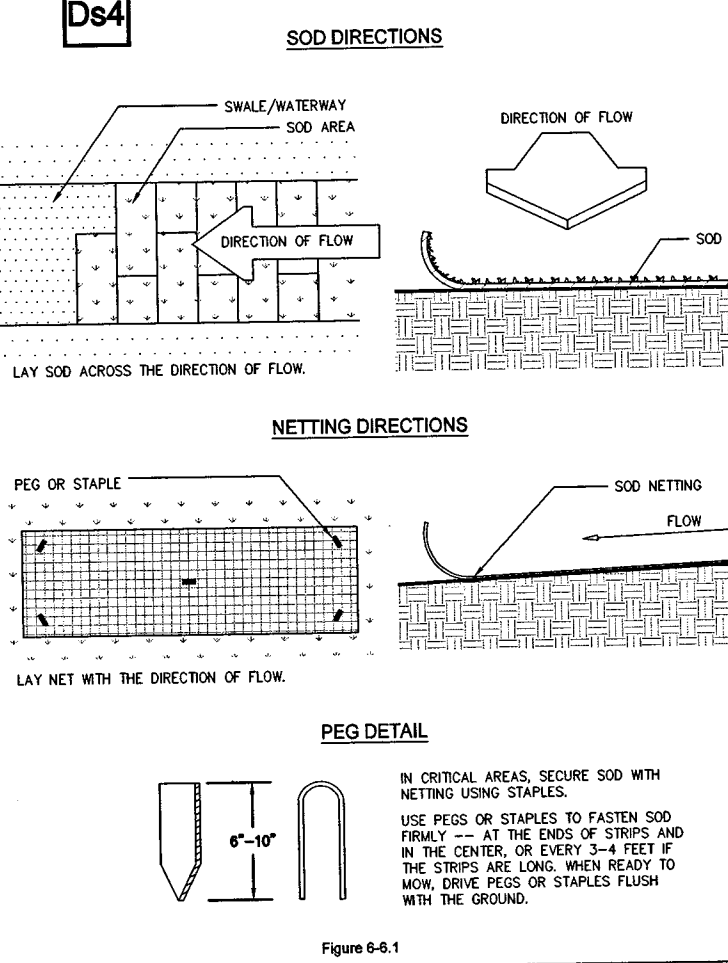
Georgia Soil & Water Conservation Commission Field Manual for Erosion and Sediment Control in Georgia (amended 2002) [DS3] Table 1 - Some Permanent Plant Species, Seeding Rates and Planting Dates Major Land Resource Area (MLRA) Refer to Figure 6-4.1					
Species	Broadcast Rates per 1000 ± f. (lb/a)	Planting Dates by Region	M.L.	P	C
Bahia, Pensacola					
alone or with temp. cover	1.4	4/1-5/31	3/1-5/31	—	Low growing; soil producing; will spread into bermuda lawns.
with other perennials	0.7				
Bahia, Wilmington					
alone or with temp. cover	1.4	3/15-5/31	3/1-5/31	—	Same as above
with other perennials	0.7				
Bermuda, Common (Hulled Seed)					
alone	0.2	4/1-5/31	3/15-5/31	—	Quick cover; low growing; soil forming; needs full sun
with other perennials	0.1				
Bermuda, Common (Unhulled Seed)					
alone	0.2	10/1-2/28	1/1-1/31	—	Plant with Winter annuals. Plant with Tall Fescue.
with other perennials	0.1				
Bermuda Sprigs					
common lawn and shade	40 c.f. soil placed 3/2"	4/15-6/15	4/1-6/15	4/1-5/31	1 c.f. = 650 sprigs; 1 lb. = 1.25 c.f. or 800 sprigs
Centipede					
block and ONLY	—	1/1-5/31	1/1-5/31	—	Drought tolerant; full sun partial shade
Crown Vetch					
with winter annuals or soil erosion control	0.3	9/1-10/15	9/1-10/15	—	Max with 30 lbs Tall Fescue or 15 lbs Rye; inoculate seed; plant only North of Atlanta
Fescue, Tall					
alone	1.1	9/15-10/15	9/1-10/15	—	Can be mixed with perennial Leptopoda or Crown Vetch; plant only North of Atlanta
with other perennials	0.7				
Lespedeza, Sericea					
scarified	1.4	4/1-5/31	3/15-5/31	3/1-5/31	Widely adapted and low maintenance; takes 2-3 years to establish; inoculate seeds with EL inoculant; mix with Weeping Lovegrass, Common Bermuda, Bahia or Tall Fescue
unscarified	1.7	9/1-2/28	9/1-2/28	9/15-1/15	Max with Tall Fescue or Winter annuals
seed bearing hay	138	10/1-2/28	10/1-1/31	10/15-1/15	Cut when seed is mature but before it shatters. Add Tall Fescue or Winter annuals
Lespedeza, Ambro Virgata or Appaloosa					
scarified	1.4	4/1-5/31	3/15-5/31	3/1-5/31	Spread growth with height of 18"-24"; good in urban areas; slow to develop good stands; mix with Weeping Lovegrass, Common Bermuda, Bahia, Tall Fescue or Winter annuals; do not mix with Sericea Lespedeza; inoculate seed with EL inoculant
unscarified	1.7	9/1-2/28	9/1-2/28	9/1-2/28	Plant in small clumps for wildlife food and cover
Lespedeza, Shrub (Lespedeza Bicolor or Lespedeza Thunbergii)					
alone	0.1	4/1-5/31	3/15-5/31	3/1-5/31	Quick cover; drought tolerant; grows well in shaded areas; slow to develop good stands; mix with Weeping Lovegrass, Common Bermuda, Bahia, Tall Fescue or Winter annuals; do not mix with Sericea Lespedeza; inoculate seed with EL inoculant
with other perennials	0.05				
Maidenhair Sprigs					
alone	2.3	2/1-3/31	2/1-3/31	2/1-3/31	For very wet sites such as swamps and shorelines. Dig sprigs locally.
Panicum, Atlantic Coast					
alone	0.5	3/1-4/30	3/1-4/30	—	Grows well in coastal sand dunes; mix with Sericea Lespedeza but not on sand dunes
Red Canary Grass					
alone	1.1	8/15-10/15	9/1-10/15	—	Grows similar to Tall Fescue; for wet sites
with other perennials	0.7				
Sunflower, Azeo Maximilian					
alone	0.2	4/15-5/31	4/15-5/31	4/1-5/31	Mix with Weeping Lovegrass or other low growing grasses or legumes

Ds3 FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

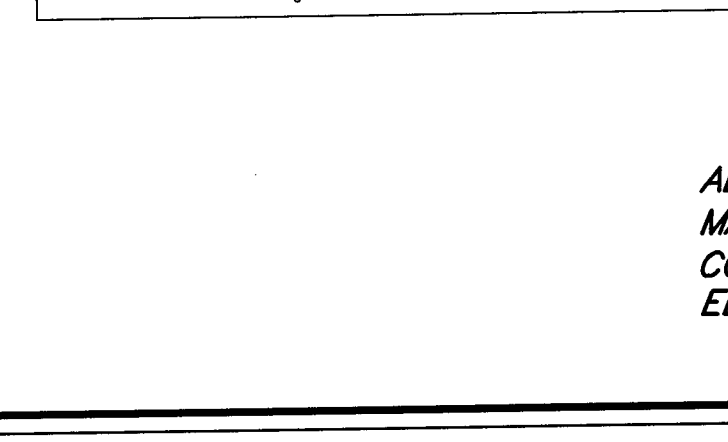
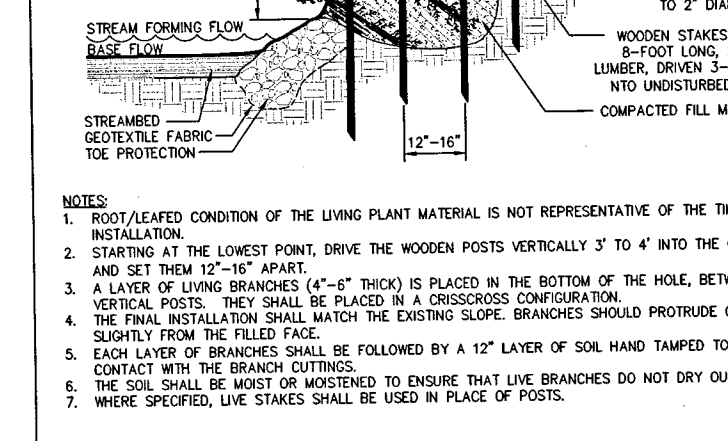
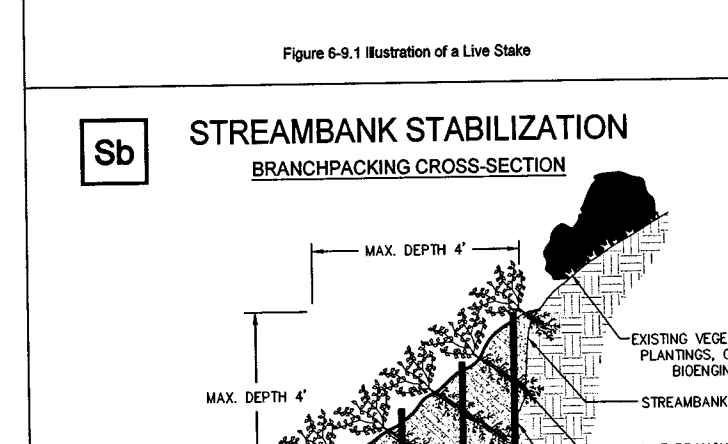
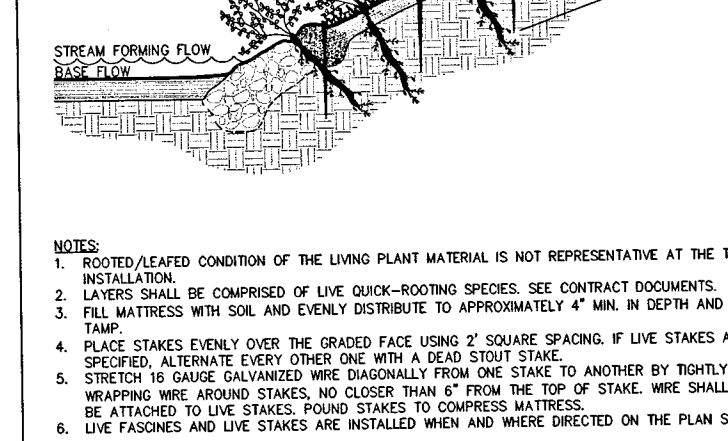
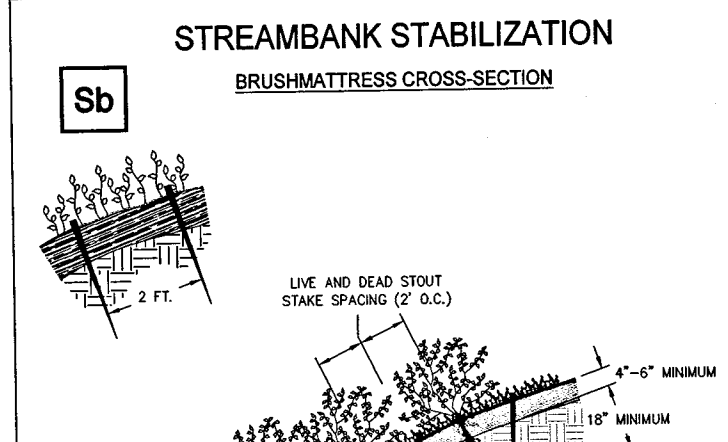
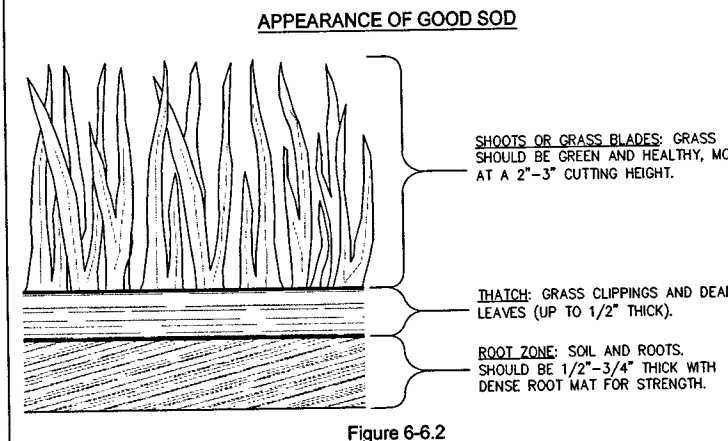
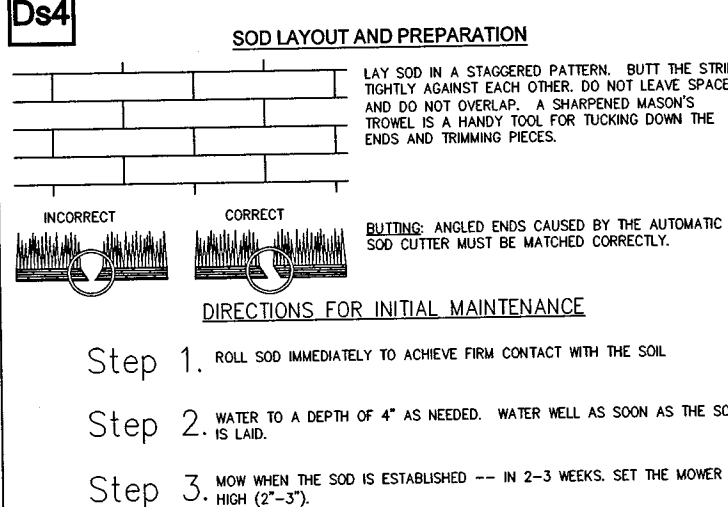
Georgia Soil & Water Conservation Commission Field Manual for Erosion and Sediment Control in Georgia (amended 2002) [DS3] Table 2 - Fertilizer Requirements for Permanent Vegetation Major Land Resource Area (MLRA) Refer to Figure 6-4.1					
Species	Planting Year	Fertilizer (N-P-K)	Rates (lbs/acre)	N Top Dressing Rate (lbs/acre)	
Cool Season Grasses	First	6-12-12	1500	50-100	
	Second	6-12-12	1000	—	
	Maintenance	10-10-10	400	30	
Cool Season Grasses & Legumes	First	6-12-12	1500	0-30	
	Second	6-10-10	1000	—	
	Maintenance	0-10-10	400	—	
Warm Season Grasses	First	6-12-12	1500	30-100	
	Second	6-12-12	800	30-100	
	Maintenance	10-10-10	400	30	
Warm Season Grasses & Legumes	First	6-12-12	1500	50	
	Second	6-10-10	1000	—	
	Maintenance	0-10-10	400	—	



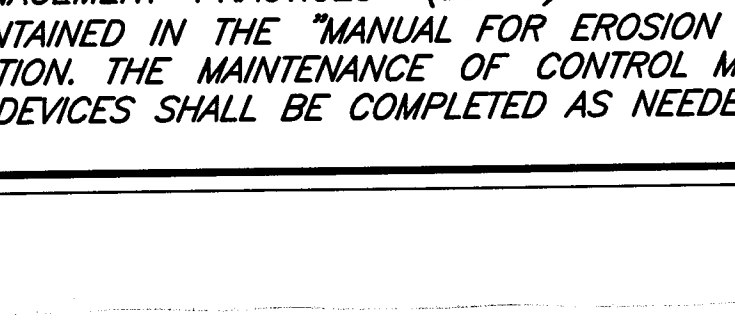
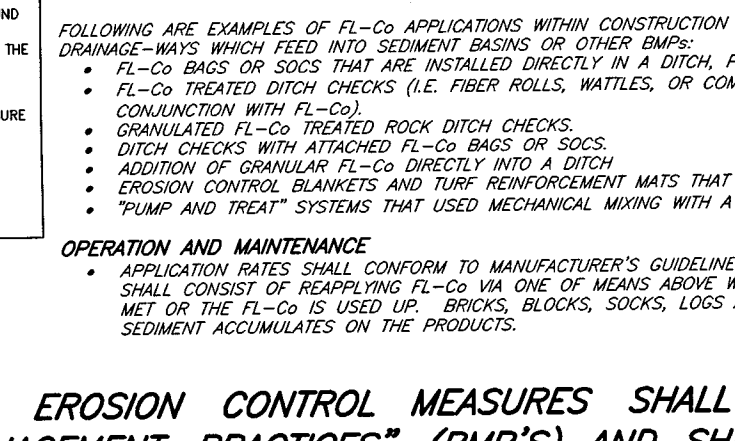
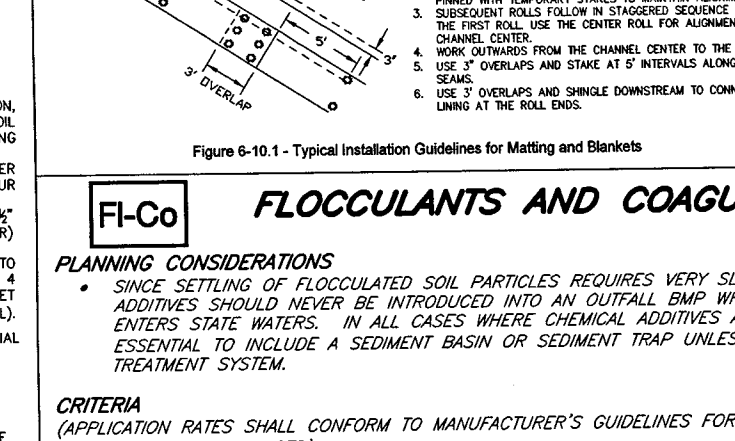
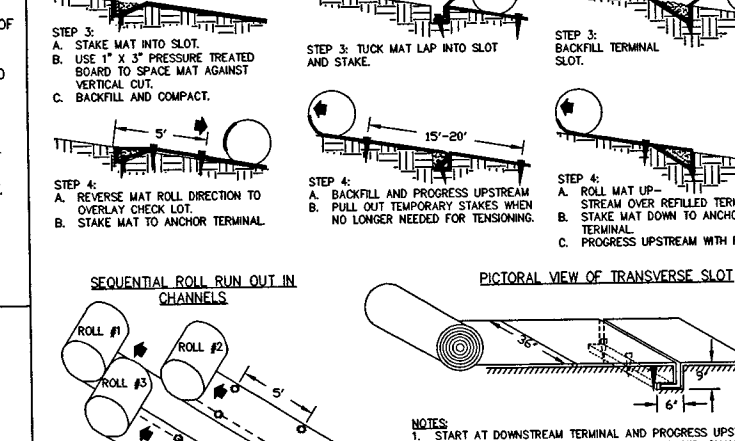
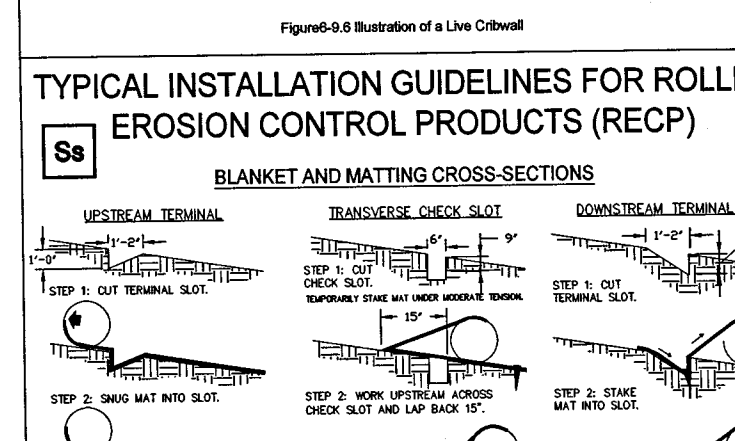
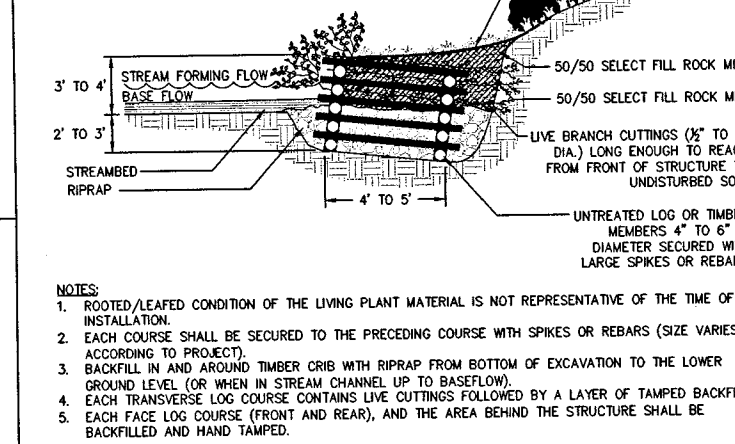
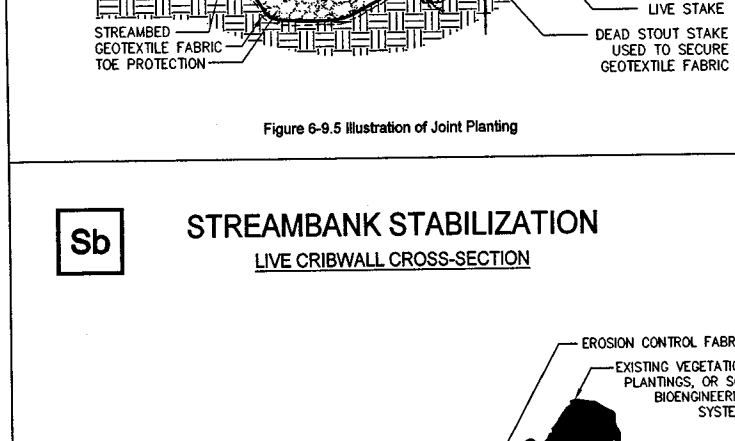
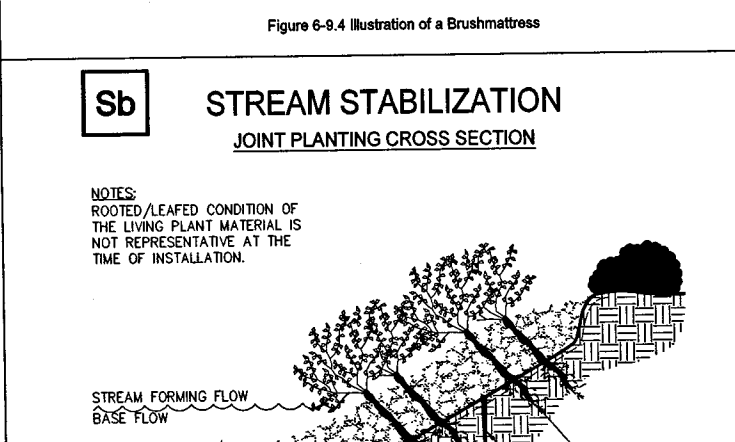
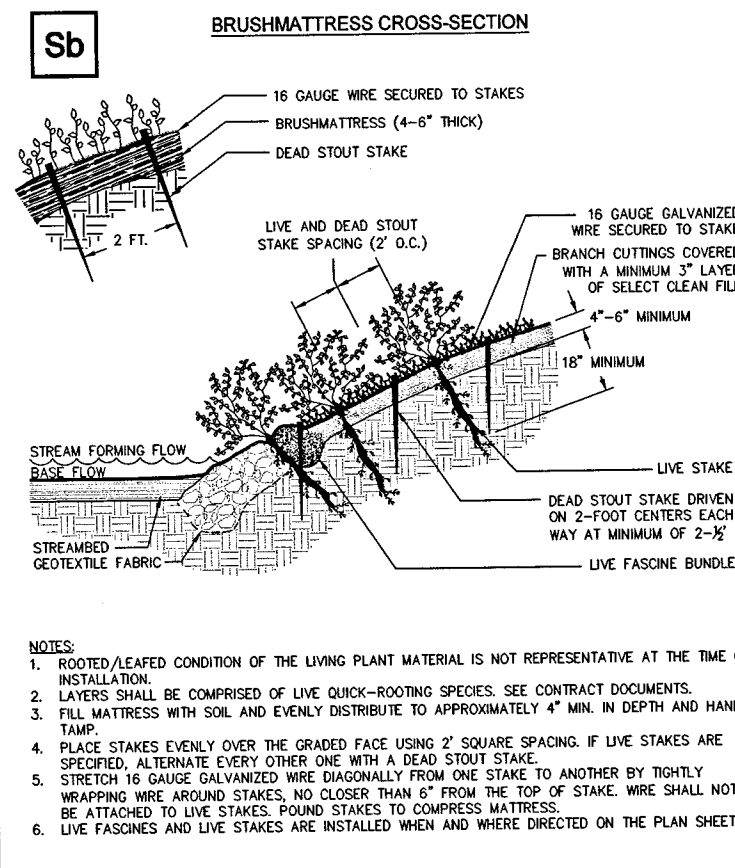
Ds4 SODDED WATERWAYS



Ds4 SOD MAINTENANCE AND INSTALLATION



STREAMBANK STABILIZATION



VEGETATIVE PRACTICES

CODE	DESCRIPTION
Bf	A strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Ca	Planting vegetation on dunes that are disturbed, artificially constructed, or reestablished.
Ds1	Establishing a temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
Ds4	A permanent vegetative cover using sods on highly erodible or critically eroded areas.
Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Es	The installation of a protective covering (blanket) or soil stabilization mat on a prepared planting area of a steep slope, channel, or shoreline.
Fl-Co	The land application of product containing anionic polyacrylamide (PAM) as temporary soil binding agents to reduce soil erosion.
Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

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EMERSON MANOR
SUBDIVISION
LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
COBB COUNTY, GEORGIA
ZONED R-15

STATE SOIL AND WATER CONSERVATION COMMISSION OF

Temporary Sediment Basin Design Sheet

Computed by: ASH Date: 8/12/2015
Checked by: DH Date: 8/12/2015

Project Name: Emerson Manor Client #: _____
Basin ID: A

Total area draining to basin = 8.3 acres
Disturbed area draining to basin = 5.1 acres

Volume
1. Compute minimum required storage volume (V_s).
 $V_s = 67 \text{ cy/ac} \cdot 8.3 \text{ acre} = 557 \text{ cy}$
2. Compute volume of basin clean-out (V_c).
 $V_c = 22 \text{ cy/ac} \cdot 8.3 \text{ acre} = 183 \text{ cy}$
3. Determine elevation corresponding to minimum required storage volume, V_s .
Minimum riser crest elevation = 1119.8 ft. (determined by stage/storage relationship)
4. Determine elevation corresponding to clean-out volume, V_c .
Clean-out elevation = 1117.0 ft. (determined by stage/storage relationship)
Note: Clean-out elevation shall be clearly marked on the riser or marked by a post near the riser.
5. Compute length of riser.
Riser length = Minimum elevation of riser crest - lowest elevation of pipe at riser.
Riser length = 1119.8 ft. - 1115.0 ft.
Riser length = 4.8 ft.

Stormwater Runoff
6. Compute peak discharge from a 2-yr, 24-hr storm event.
 $Q_p = 6.1 \text{ cfs}$ (Attach runoff computation sheet.)
7. Compute peak discharge from a 25-yr, 24-hr storm event.
 $Q_{25} = 24.4 \text{ cfs}$ (Attach runoff computation sheet.)

Surface Area/Configuration Design
Compute minimum basin surface area (S_{Ann}).
8. $S_{Ann} = 0.01 \text{ ac} / \text{cfs} \cdot Q_p = 0.061 \text{ ac}$
 $S_{Ann} = 0.01 \text{ ac} / \text{cfs} \cdot Q_{25} = 0.244 \text{ ac}$
9. Check available area at elevation of riser crest.
Available area at $S_{Ann} = 2,636 \text{ sf}$ (determined by stage/storage relationship)
Available area at $S_{Ann} = 104 \text{ sf}$
10. Compute required length to achieve 2:1 L:W ratio.
Average width = 52 ft.
Required length = $2 \cdot \text{average width} = 104 \text{ ft.}$
Required length = $2 \cdot 52 \text{ ft.} = 104 \text{ ft.}$
Available length = 50 ft.
2:1 L:W ratio satisfied? Yes X No _____
If "no", refer to Figure 6-22.2 for baffle designs. Note any required baffles on E&S plan and include calculations and details for baffle(s).

TEMPORARY SEDIMENT BASIN DESIGN SHEET

Project Name: Emerson Manor Page 2

13. Compute the total pipe length of the principal spillway, L, using Figure 6-22.3.
 $L = [A \cdot (B+C)/2] [2L+2d] + T + E = 45.0 \text{ ft.}$
14. Determine diameter of principal spillway (D_{ps}) and flow through the principal spillway (Q) from Table 6-22.1 using H and Q_{max} .
 $D_{ps} = 18 \text{ in.}$ $Q = 12.2 \text{ cfs}$ (directly from table)
15. Compute actual flow through the principal spillway, using Table 6-22.1 to determine the correction factor for pipe length, L.
 $Q_{ps} = Q \cdot \text{correction factor} = 12.2 \text{ cfs} \cdot 1.12 = 13.7 \text{ cfs}$
16. Compute riser diameter (D_r).
 $D_r = 1.5 \cdot D_{ps} = 27.0 \text{ in.}$
 $D_r = 30 \text{ in.}$ nominal size
17. Compute trash rack diameter (D_t).
 $D_t = 1.4 \cdot D_r = 42.0 \text{ in.}$
 $D_t = 48 \text{ in.}$ nominal size
18. Determine the minimum distance between the riser crest and the emergency spillway crest, h, using Table 6-22.2 D_r and Q_{ps} .
 $h = 1 \text{ ft.}$

Concrete Riser Base Design
19. Determine the volume of concrete per vertical foot of riser height needed, from table 6-22.3 to prevent flotation.
Required volume of concrete per vertical foot = 4.29 cfv.f.
20. Compute total volume of concrete required.
Total required volume of concrete = Required volume per vertical foot * Riser length.
Total required volume of concrete = 4.29 cfv.f. * 4.8 ft. = 20.59 cf
21. Assume base thickness, B (usually 18").
 $B = 18 \text{ in.} = 1.5 \text{ ft.}$
22. Compute required surface area.
Required surface area = Total volume required / B
Required surface area = 20.59 cf / 1.5 ft. = 13.7 sf
23. Compute riser base length (l) and width (w) (assume square base).
 $l = w = (\text{Required surface area})^{1/2} = 3.7 \text{ ft.}$
 $l = w = 12 \text{ in.} \cdot 3.7 \text{ ft.} = 44 \text{ in.}$

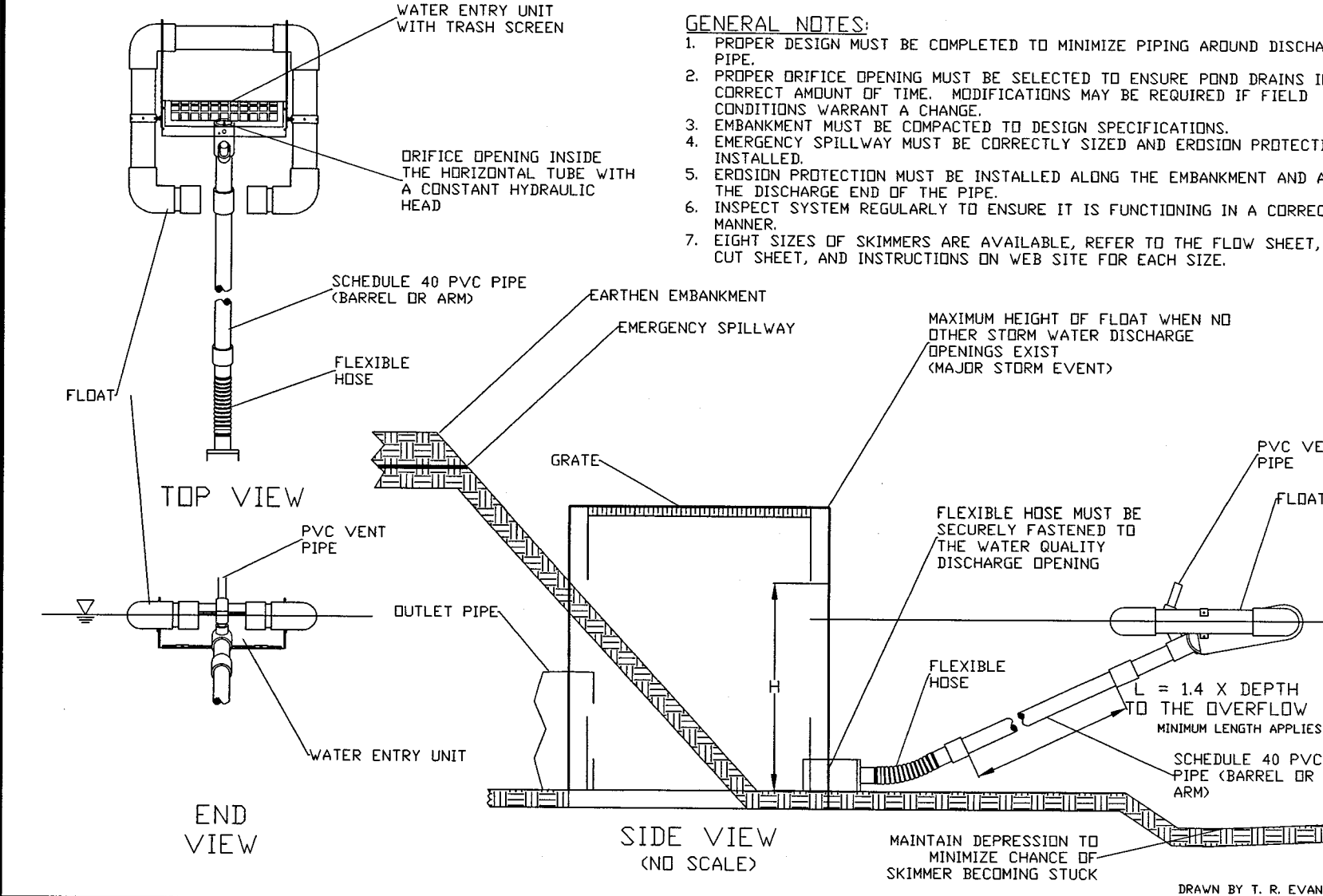
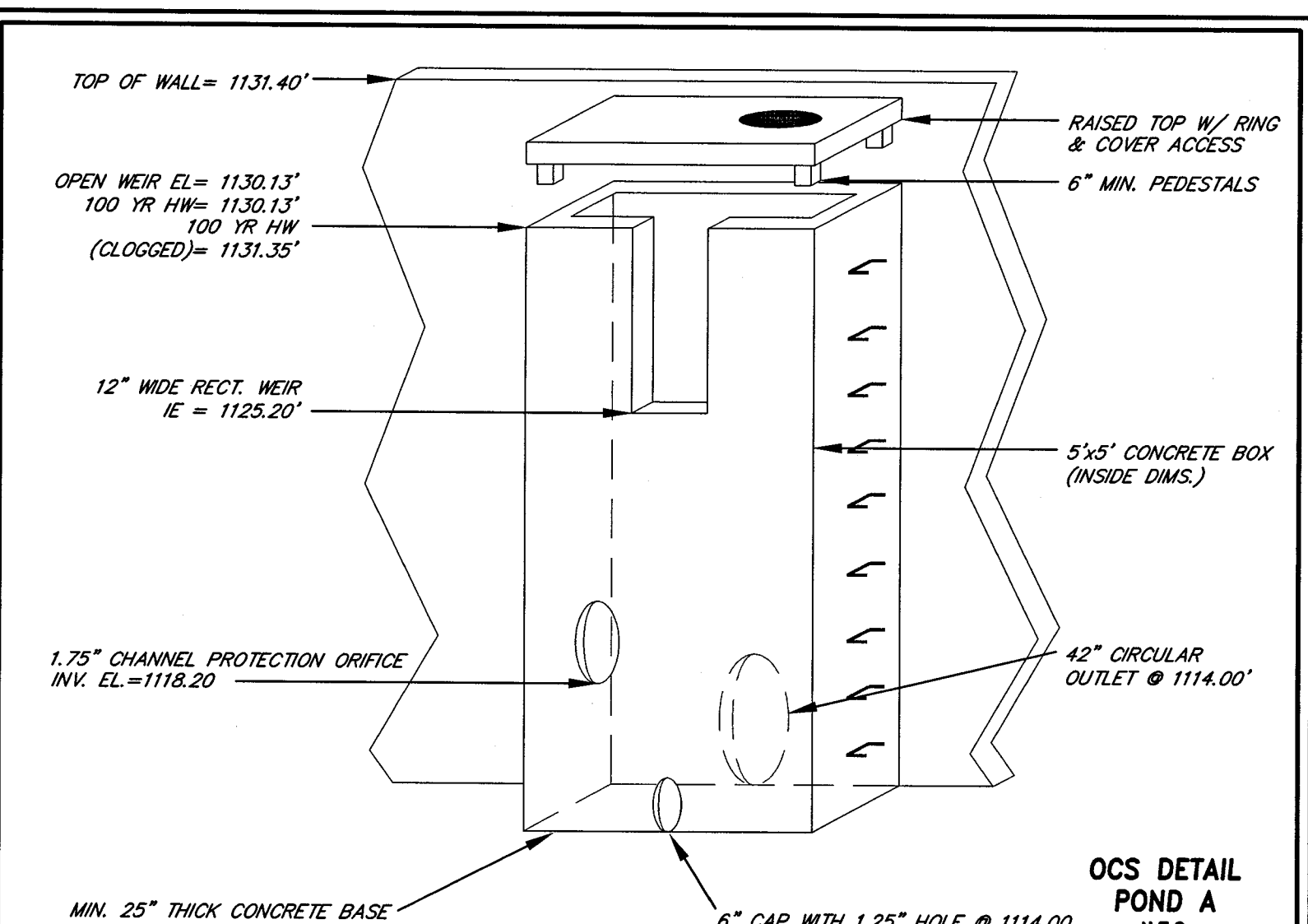
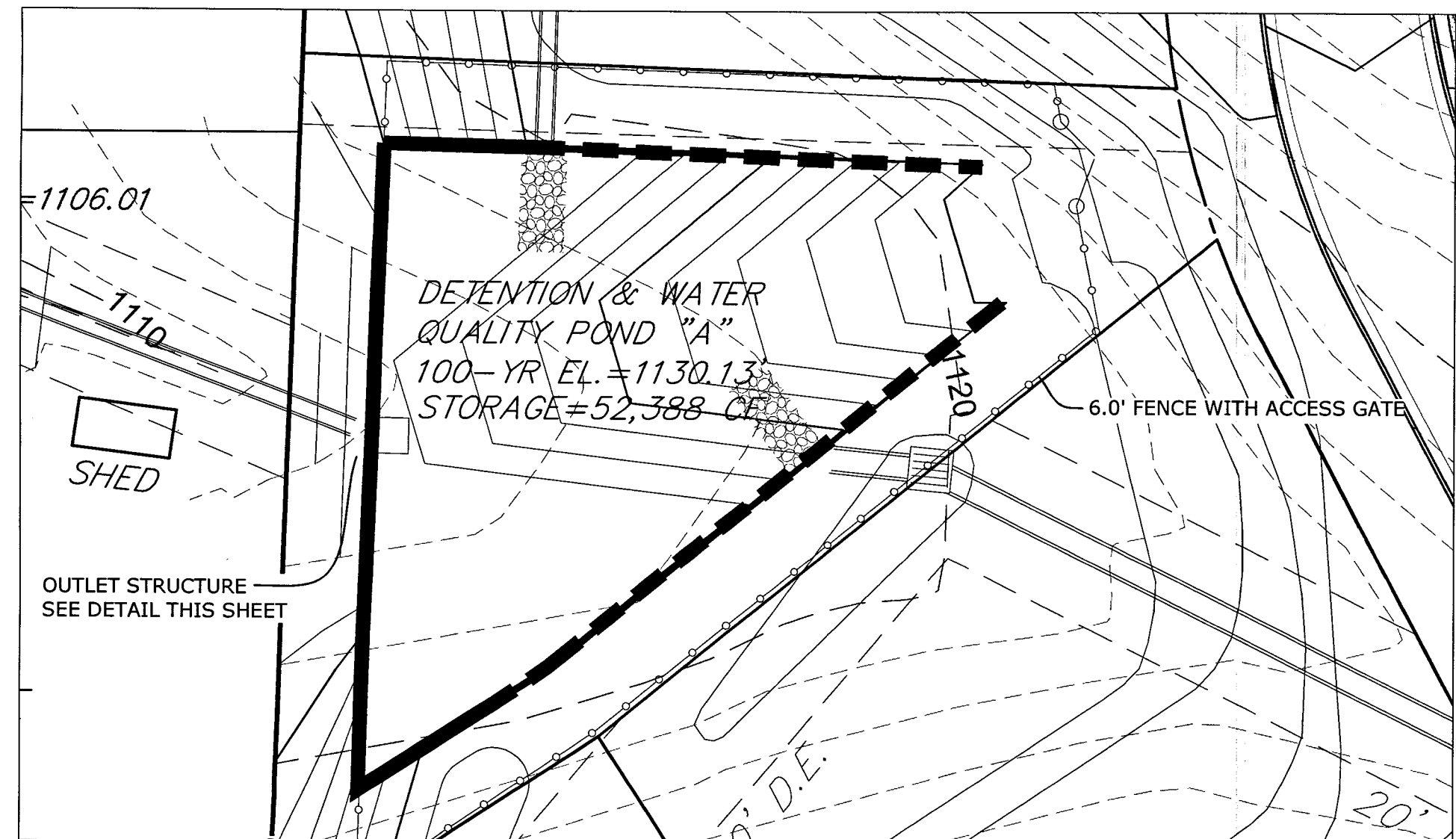
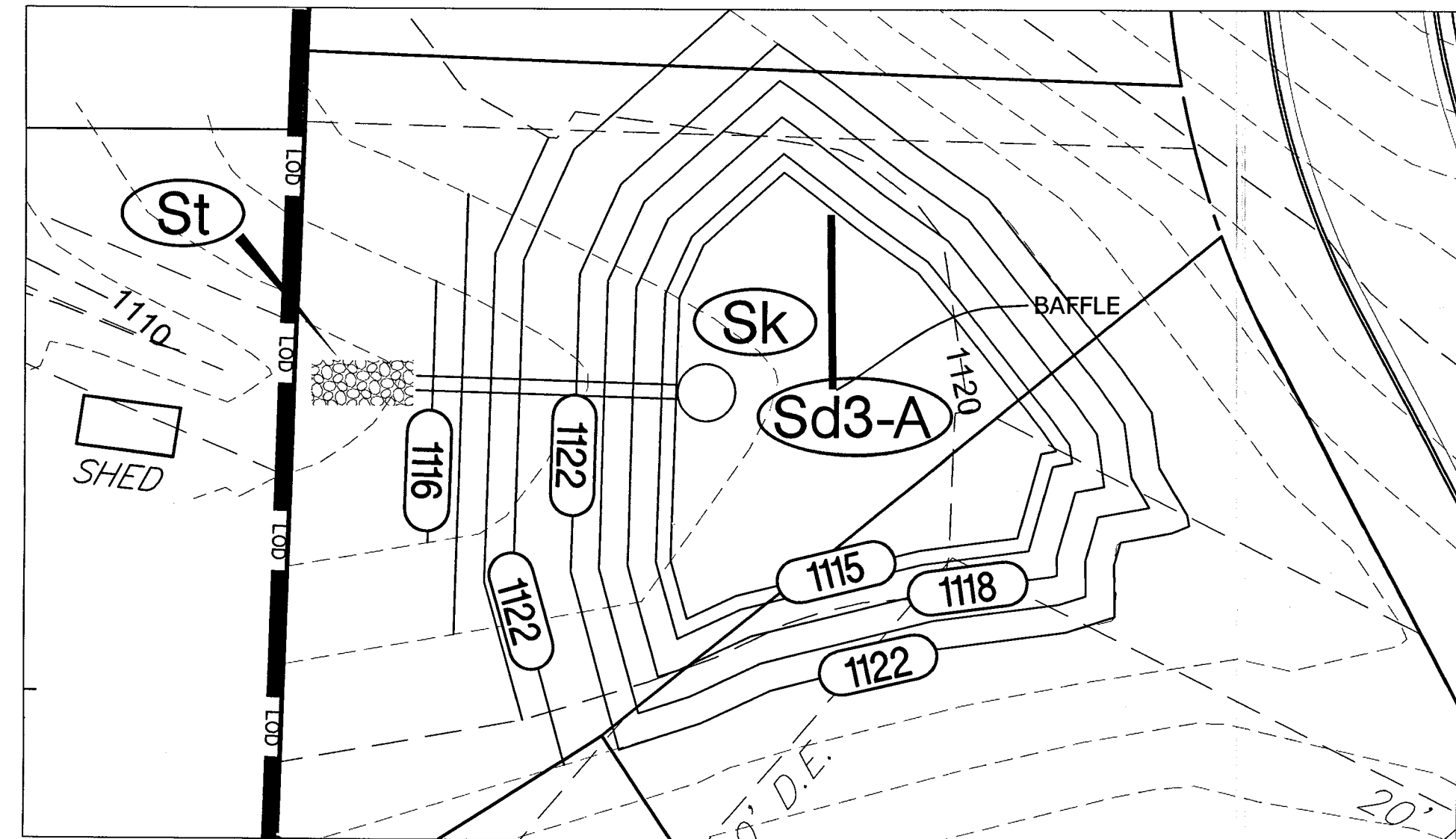
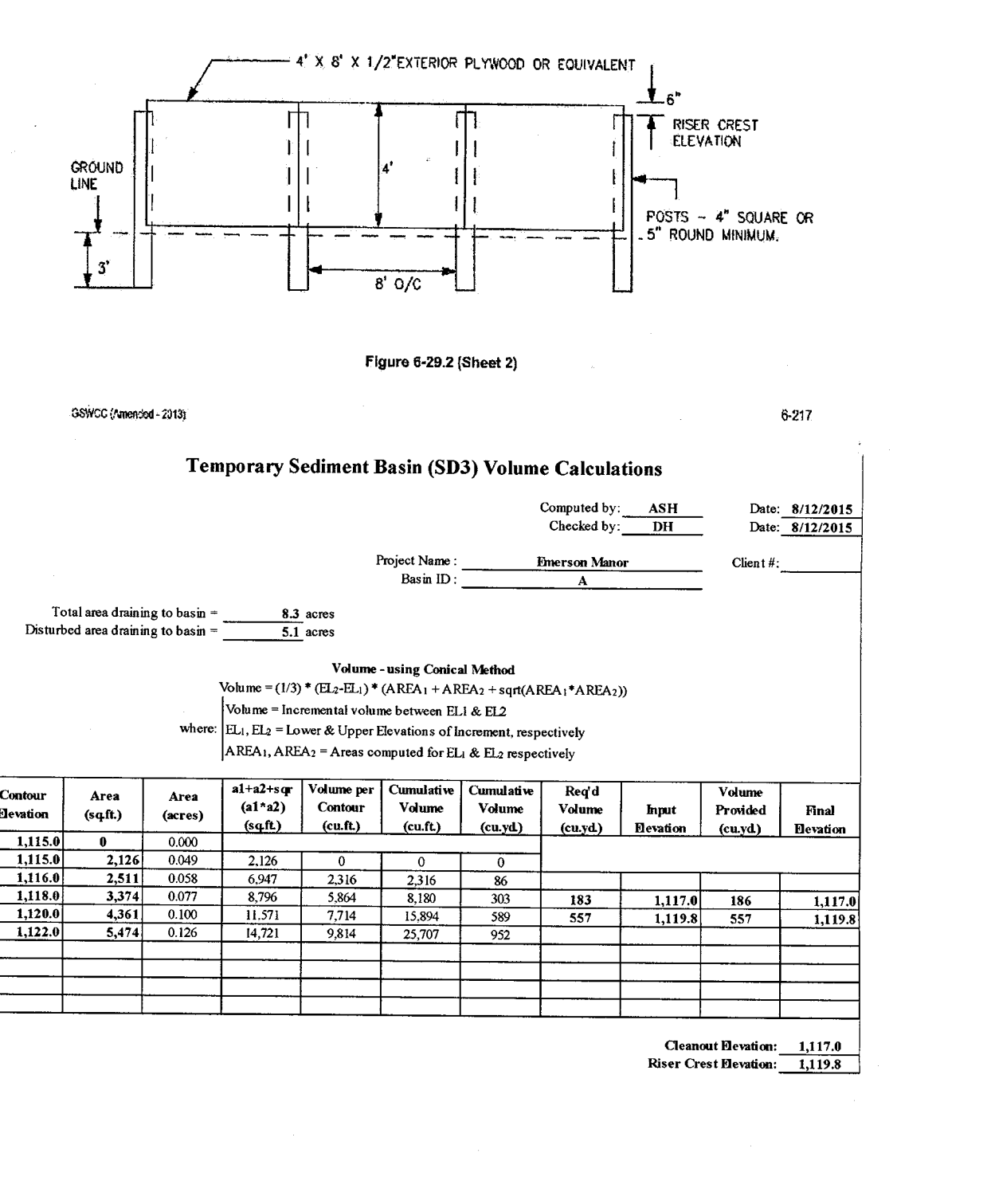
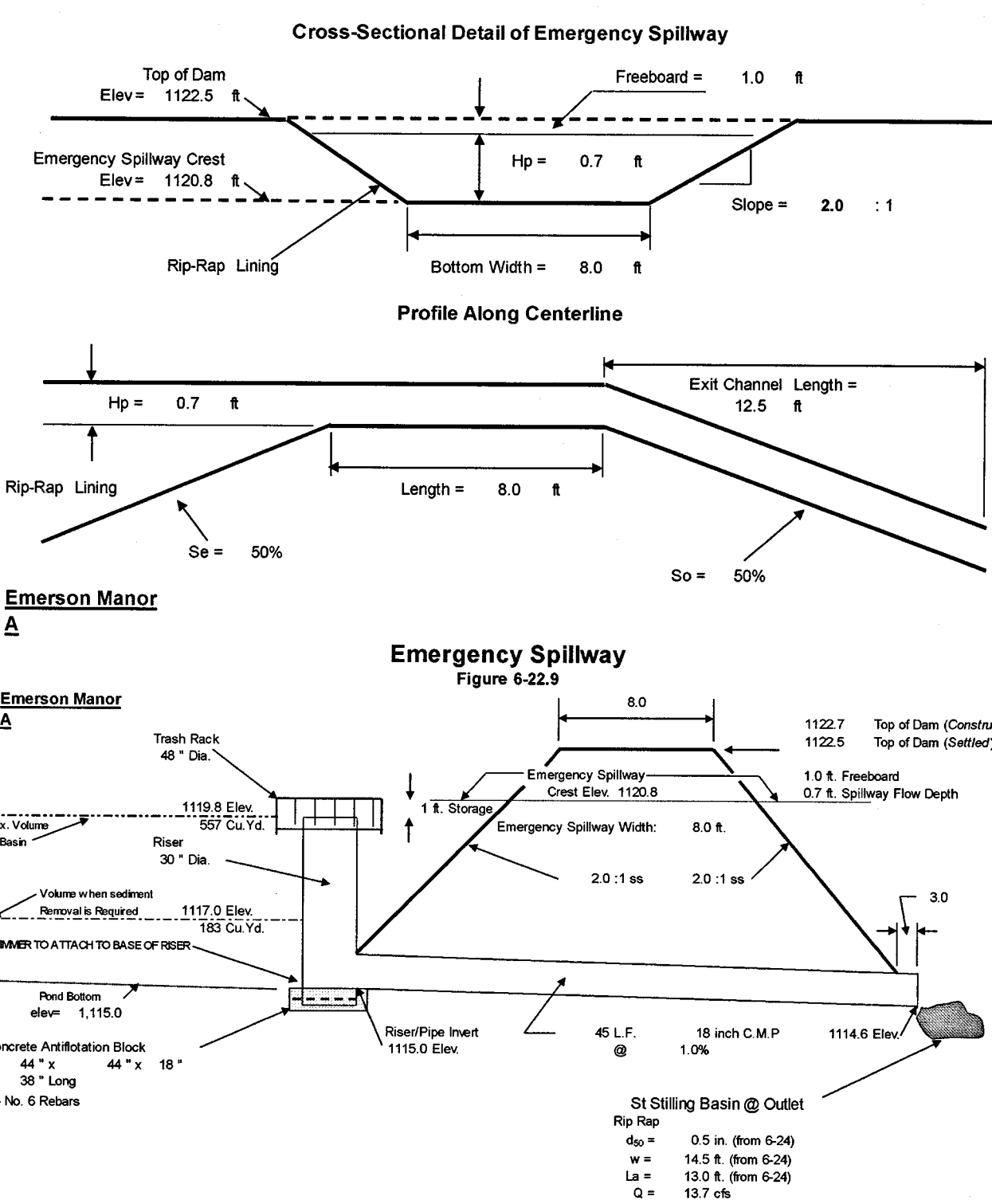
Antiseep Collar Design
24. Determine if anti-seep collar is required. If yes, to any of the following conditions, a collar is required. (Place "X" in appropriate blank, if condition does not apply, leave blank)
The settled height of the dam is greater than 15 feet. _____
The principal spillway diameter (D_{ps}) is smooth pipe larger than 8" _____
The principal spillway diameter (D_{ps}) is corrugated metal pipe larger than 12". _____
25. Determine size of anti-seep collar required.
18-inch projection (for heads (H) less than or equal to 10 feet) _____
24-inch projection (for heads (H) greater than or equal to 10 feet) _____

TEMPORARY SEDIMENT BASIN DESIGN SHEET

Project Name: Emerson Manor Page 3

Emergency Spillway (es)
26. Compute minimum capacity of emergency spillway (Q_{es}).
 $Q_{es} = Q_{25} - Q_{ps} = 24.4 \text{ cfs} - 13.7 \text{ cfs} = 10.7 \text{ cfs}$
27. Determine stage (H_b), bottom width (b), velocity (v) and minimum exit slope (S) using Table 6-22.4 and Q_{es} .
 $H_b = 0.7 \text{ ft.}$ $b = 8 \text{ ft.}$ $S = 3.5\%$
28. Actual entrance channel slope, $S_e = 50.0\%$
29. Actual exit channel slope, $S_o = 50.0\%$
Note: If S_o is steeper than S (from Table 6-22.4), then the velocity in the exit channel will increase.
a) Calculate new exit velocity (V_o).
 $V_o = V (S_o/S)^{1/3} = 7.1 \text{ fps} \cdot (50.0\% / 3.5\%)^{1/3} = 10.7 \text{ fps}$
Note: Refer to Channel Stabilization (Ch) to determine the proper lining for the emergency spillway
Grass _____ Rip-Rap _____ Concrete _____

Design Elevations
30. Riser crest elevation = 1119.8 ft.
31. Compute minimum emergency spillway crest elevation.
Minimum emergency spillway crest elevation = Riser crest elevation + h
Minimum emergency spillway crest elevation = 1119.8 ft. + 1.0 ft. = 1120.8 ft.
Minimum emergency spillway crest elevation = 1120.8 ft.
32. Determine design high water elevation.
Design high water elevation = Minimum emergency spillway crest elevation + Stage elevation (H).
Design high water elevation = 1120.8 ft. + 0.7 ft. = 1121.5 ft.
Design high water elevation = 1121.5 ft.
33. Determine elevation of top of dam.
Elevation of top of dam = Design high water elevation + 1 ft freeboard
Elevation of top of dam = 1121.5 ft. + 1 ft. = 1122.5 ft.



SD3-A SKIMMER:

1. POND, TRAP OR BASIN SIZE, LENGTH AND WIDTH AND DEPTH = 50'x52' BOTTOM, 77'x88' TOP
2. TIME TO DRAIN (HRS) = 72
3. SKIMMER DIMENSIONS (ORIFICE AND HEAD SIZE) = ORIFICE DIA. = 0.2" SKIMMER SIZE = 0.5"
4. MANUFACTURER'S NAME: FAIRCLOTH

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EMERSON MANOR
SUBDIVISION
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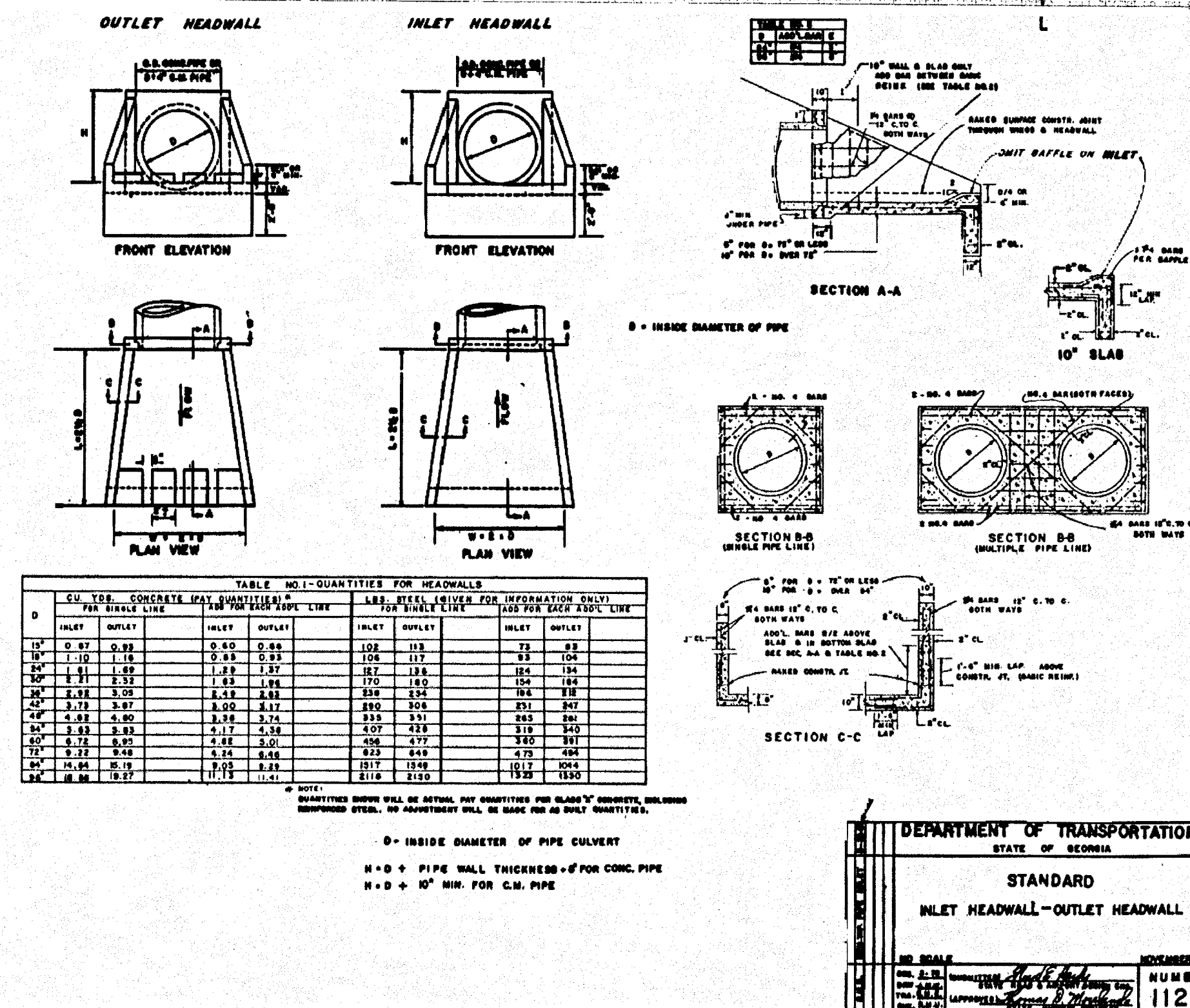
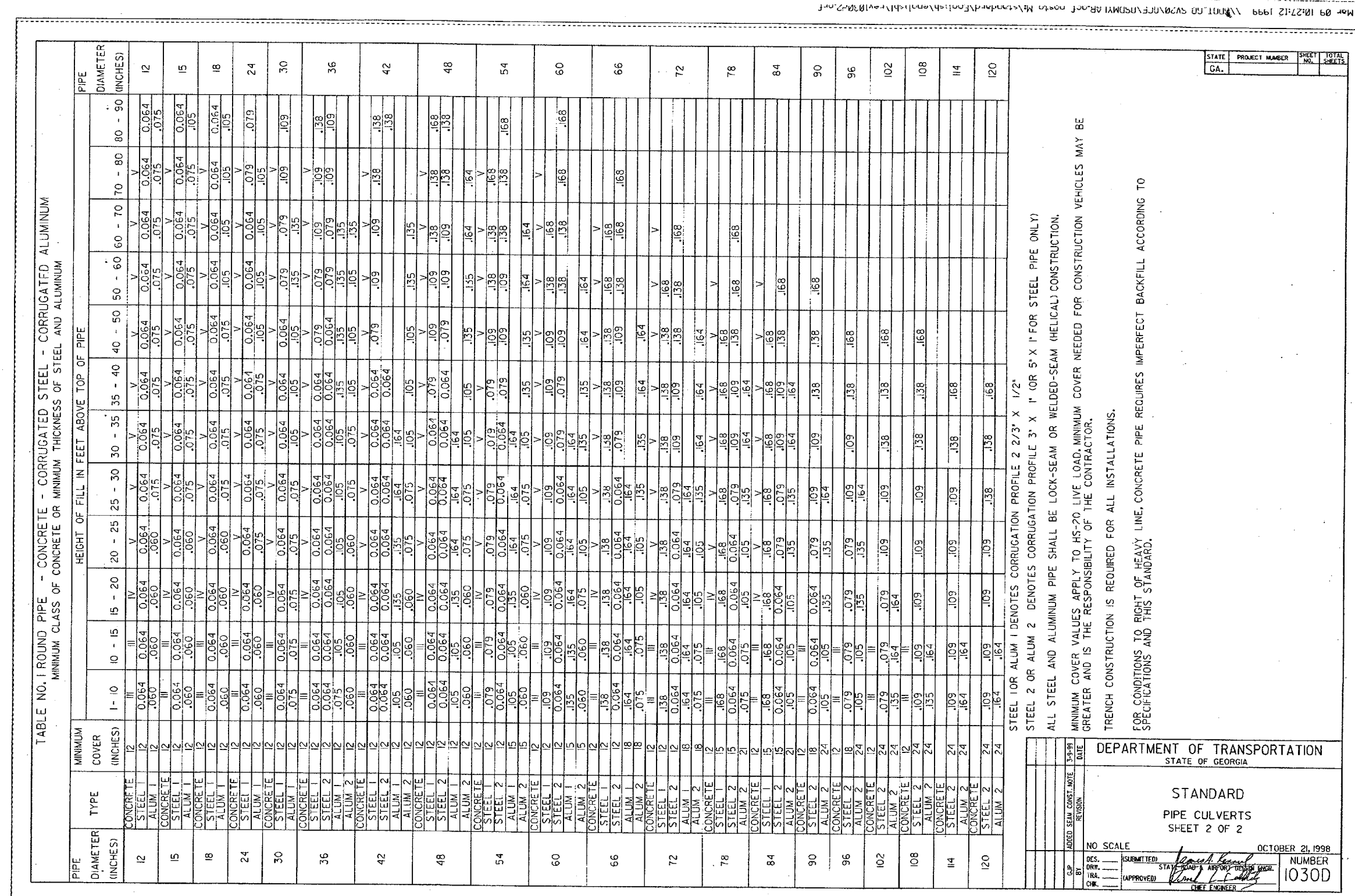
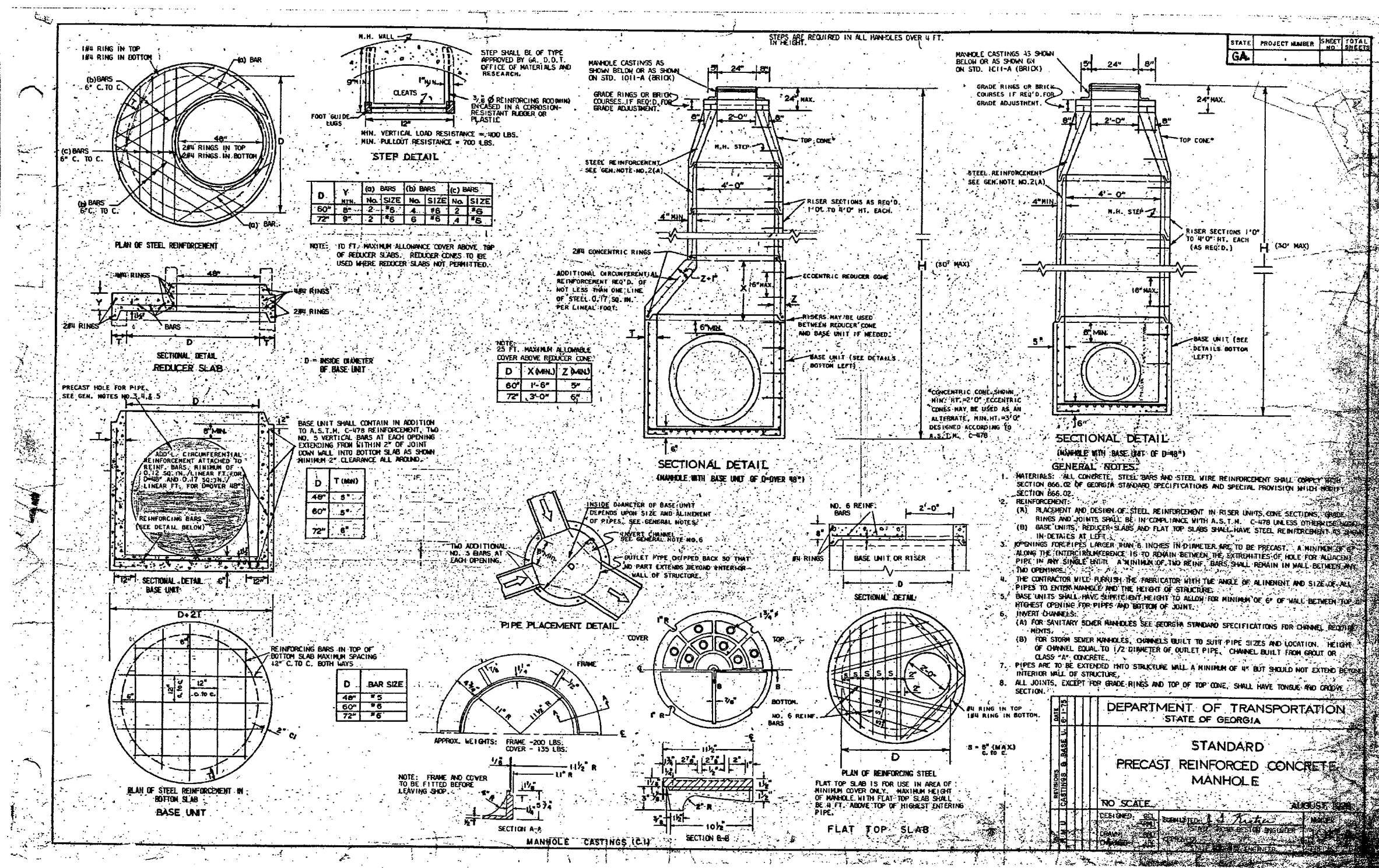
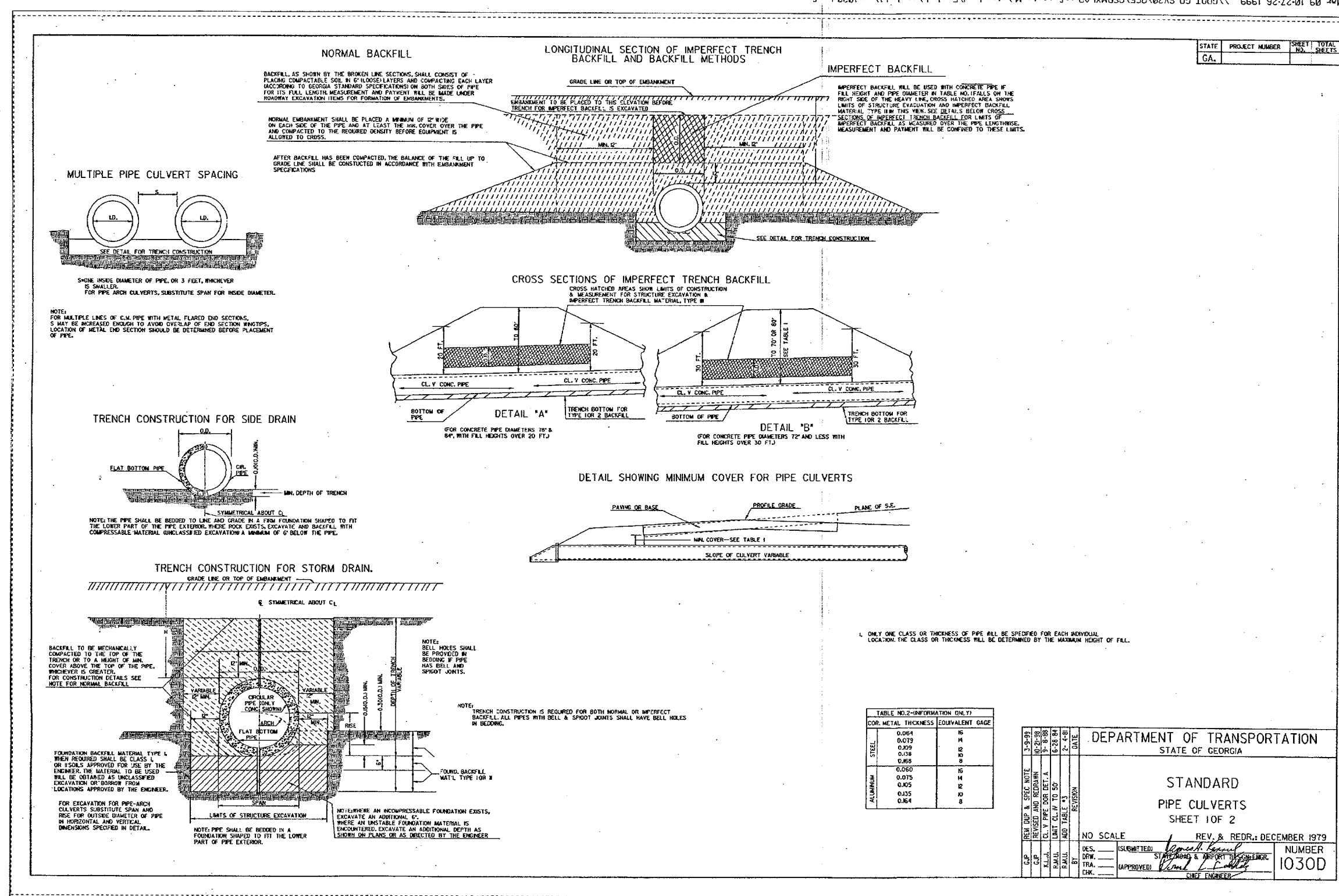
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DETENTION POND & SEDIMENT STORAGE DETAILS

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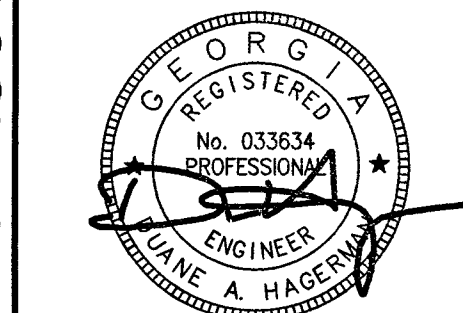
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NAME: A. HADWIN

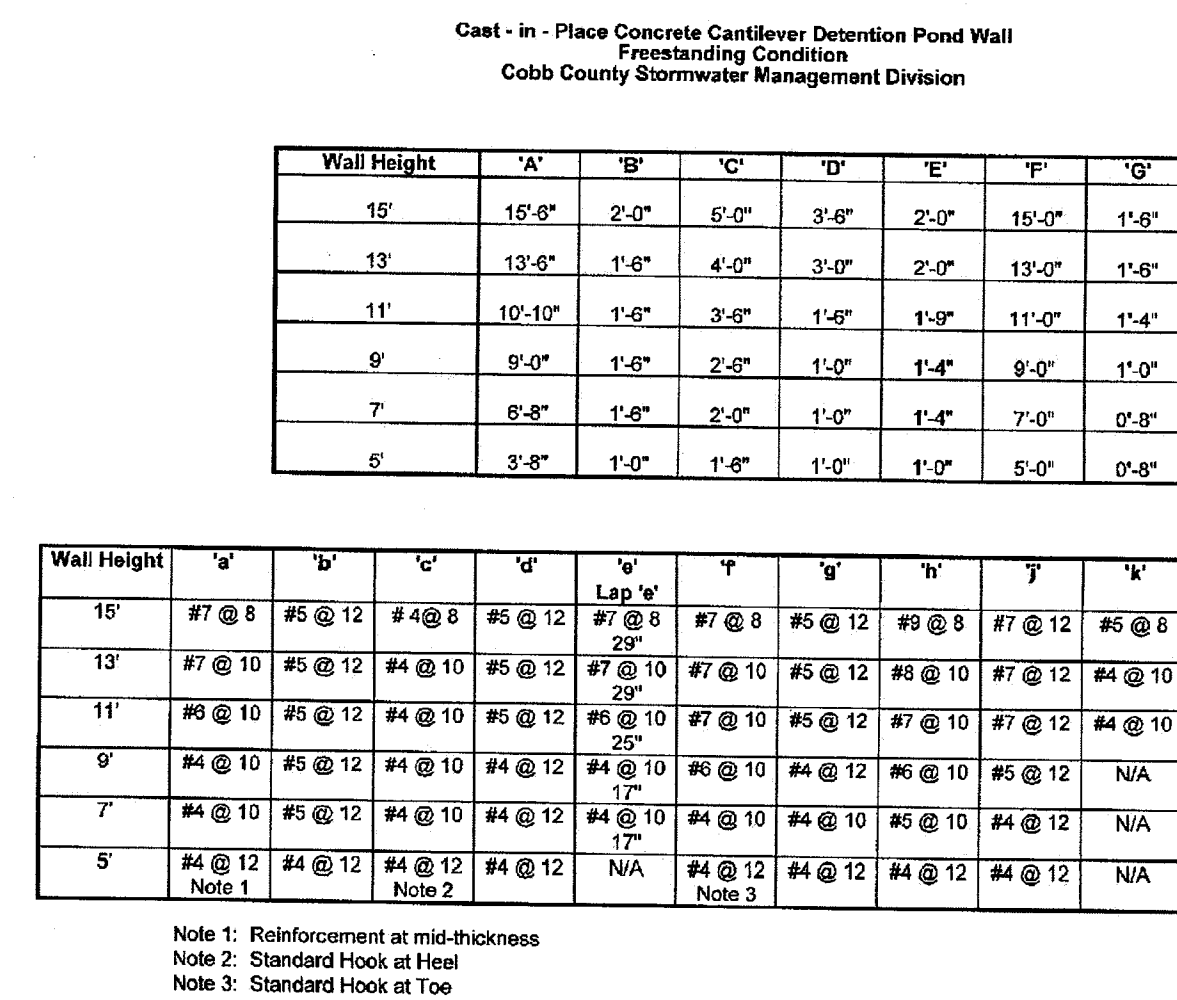
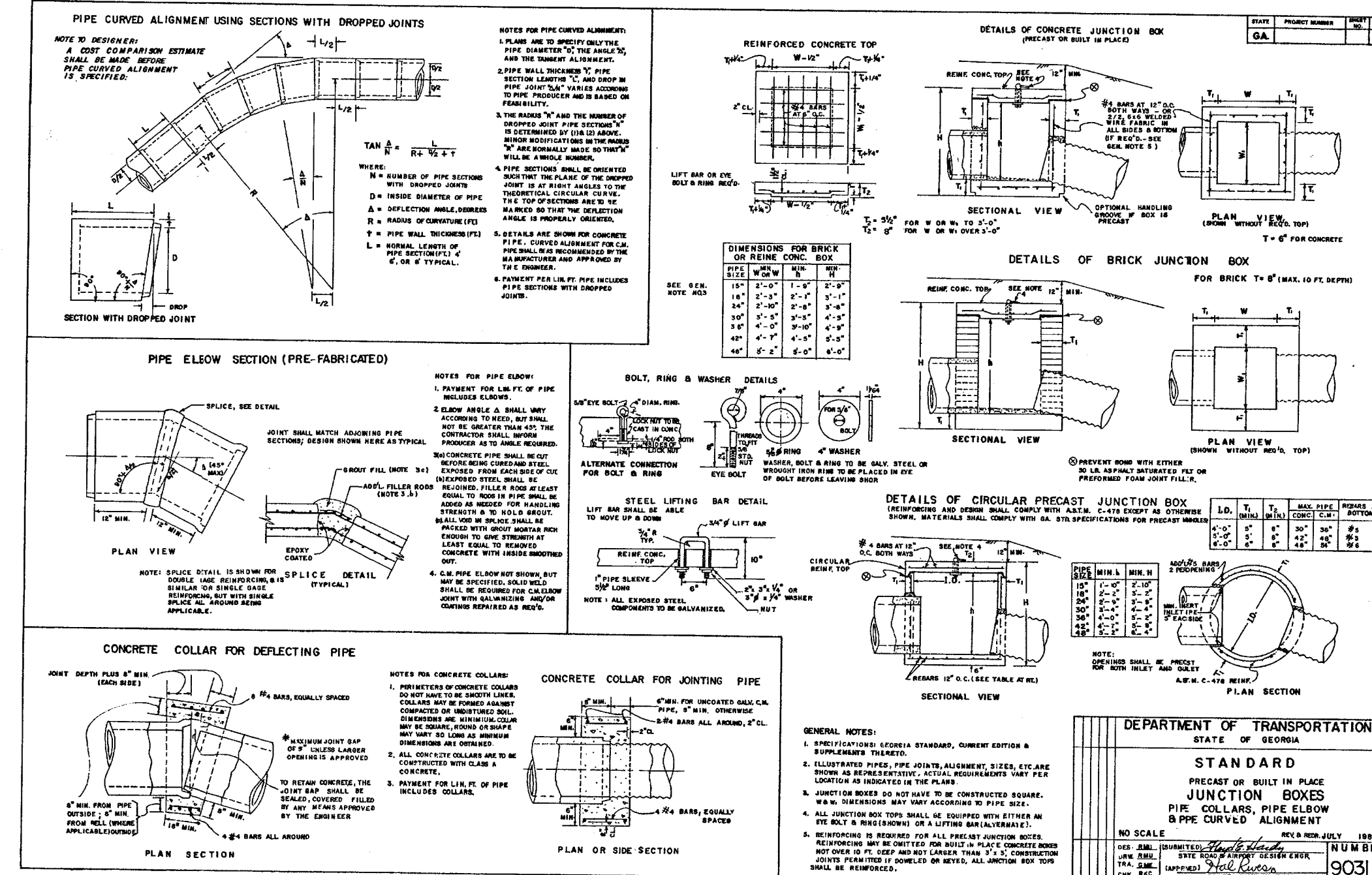
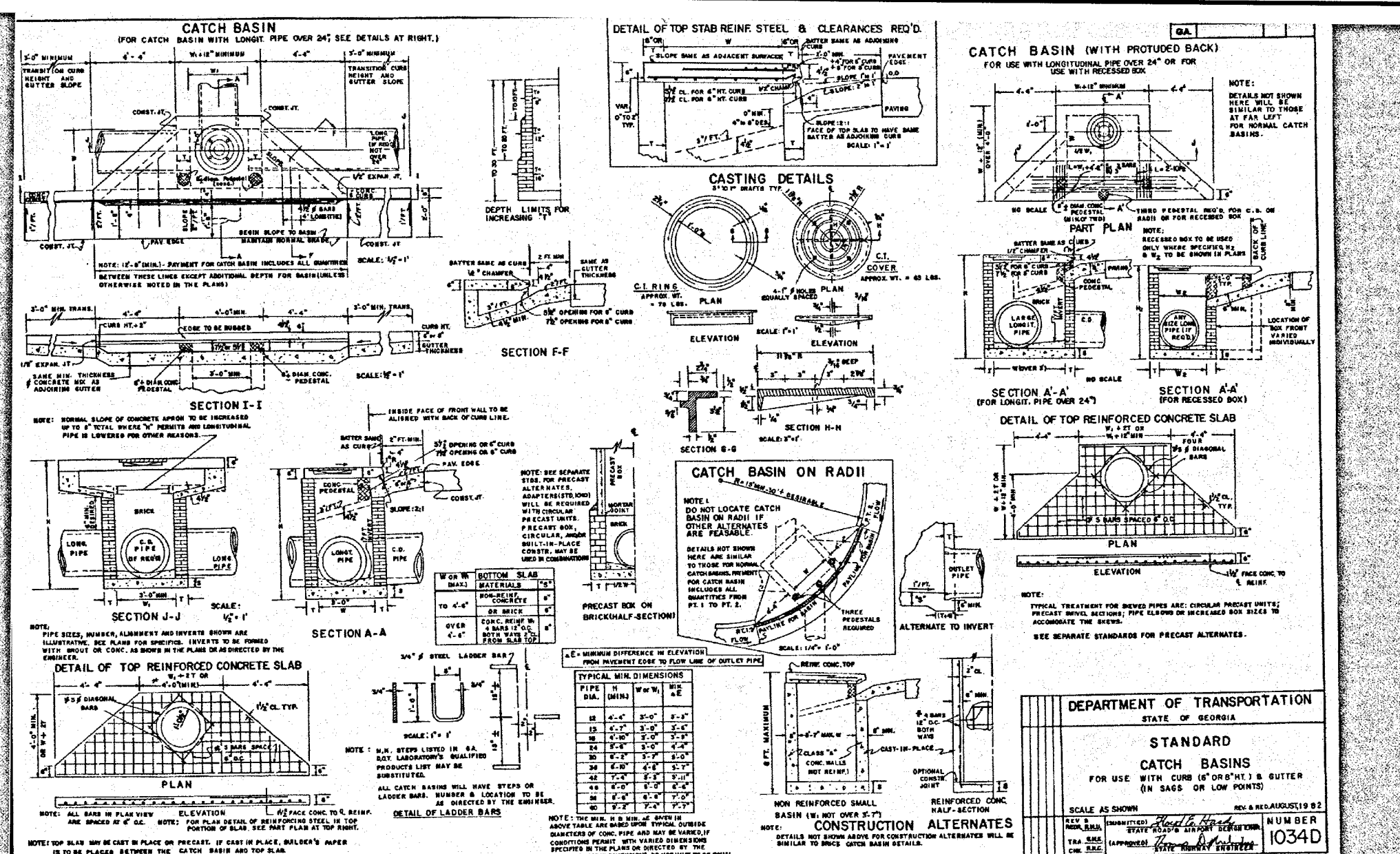
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SCALE N.T.S.	ISSUE DATE 10/19/15
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approval of Gaskins Surveying Company,
Inc. is prohibited.

LAND LOT 552, 16TH DISTRICT, 2ND SECTION,

Wall Height	'a'	'b'	'c'	'd'	Lap 'b'		'e'	'f'	'g'	'h'	'j'	'k'	'l'	'm'
13'	#7 @ 10	#5 @ 12	#4 @ 8	#5 @ 12	#7 @ 8	#7 @ 8	#7 @ 8	#5 @ 12	#5 @ 8	#7 @ 12	#5 @ 8	#4 @ 8	#7 @ 12	
10'	#7 @ 10	#5 @ 12	#5 @ 12	#5 @ 12	#7 @ 8	#7 @ 8	#7 @ 8	#5 @ 12	#5 @ 8	#7 @ 12	#5 @ 8	#4 @ 8	#7 @ 12	
11'	#6 @ 10	#5 @ 12	#4 @ 10	#5 @ 12	#7 @ 8	#7 @ 8	#7 @ 8	#5 @ 12	#7 @ 10	#7 @ 12	#4 @ 10	#4 @ 10	#7 @ 12	
9'	#4 @ 10	#5 @ 12	#4 @ 10	#4 @ 12	#6 @ 10	#6 @ 10	#6 @ 10	#5 @ 12	#6 @ 10	#5 @ 12	N/A	#4 @ 10	#5 @ 12	
7'	#4 @ 10	#5 @ 12	#4 @ 10	#4 @ 12	#6 @ 10	#6 @ 10	#6 @ 10	#5 @ 12	#6 @ 10	#5 @ 12	N/A	N/A	N/A	
5'	#4 @ 12 Note 1	#4 @ 12	#4 @ 12	#4 @ 12	#6 @ 10	#6 @ 10	#6 @ 10	#5 @ 12	#4 @ 12	#4 @ 12	N/A	N/A	N/A	

Note 1: Reinforcement at mid-thickness
Note 2: Standard Hook at Heel
Note 3: Standard Hook at Toe

REVISIONS			
REV.	DATE	REVISION	REFERENCE:
1	-	-	
2	-	-	
3	-	-	
4	-	-	
5	-	-	
6	-	-	
7	-	-	
8	-	-	
9	-	-	

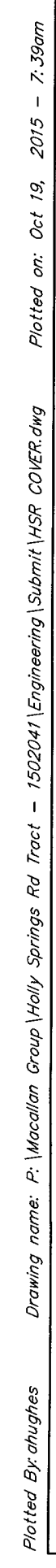
SHEET TITLE
CONSTRUCTION
DETAILS (2 OF 3)

ISSUED FOR CONSTRUCTION

SEA



PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE: 1:50 N.T.S.	ISSUE DATE 10/19/15
SHEET NUMBER CD6	



PROJECT NOTES

- TOTAL AREA: 5.14 ACRES
- DISTURBED AREA: 5.14 ACRES
- PRESENT ZONING: ZONED R-15
- SOURCE NOTES:
 - BOUNDARY INFORMATION TAKEN FROM SURVEY PREPARED BY: GASKINS SURVEYING COMPANY, INC. CHRIS EVANS, R.L.S. #2784
 - DATE OF SURVEY: JANUARY 31, 2010
 - TOPOGRAPHIC INFORMATION TAKEN FROM FIELD RUN TOPOGRAPHY & COBB COUNTY GIS. VERTICAL INFORMATION HAS BEEN FIELD VERIFIED.
- OWNER & DEVELOPER:
 - MACALLAN CAPITAL, LLC 1642 POWERS FERRY ROAD, S.E. SUITE 250
 - 24 HOUR PHONE AND CONTACT: JAMES L. RHODEN III 404-603-8833
- BUILDING SETBACKS: SHOWN
- LOCAL ISSUING AUTHORITY LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND PLAN VIEW FROM A COUNTY ROAD OR STREET.
- LOCATION OF CONSTRUCTION SHALL BE DETERMINED BY OBSERVABLE EVIDENCE ONLY. THIS PROPERTY MAY BE SUBJECT TO EASEMENTS, CLAIMS, PRESCRIPTION AND SUBSURFACE CONDITIONS THAT ARE NOT VISIBLE OR RECORDED, THUS DEEMING THEM UNDETERMINED AND NOT SHOWN. THIS PLAN IS INTENDED FOR THE PARTIES STATED ON THE FACE OF SURVEY. USE OF THE SURVEY BY THIRD PARTIES IS AT THEIR OWN RISK.
- ALL TREES, STUMPS, ROOTS, DEBRIS, JUNK AND OTHERWISE DELETERIOUS MATERIAL MAY BE BURIED OR REMOVED FROM THE SITE. ALL AREAS TO BE GRADED ARE TO BE CLEARED AND HAVE TOPSOIL REMOVED. FILL AREAS SHOULD BE SCARIFIED TO A DEPTH OF 6" PRIOR TO PLACING FILL MATERIAL.
- ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- MAXIMUM CUT OR FILL SLOPE 2H:1V
- ALL PAVEMENT MARKINGS WITHIN THE RIGHT OF WAY SHALL BE THERMOPLASTIC AND ACCORDING TO GEORGIA D.O.T. SPECIFICATIONS.
- ALL UTILITIES SHALL BE PLACED IN ACCORDANCE WITH STATE LAWS LOCAL ORDINANCES AND ANY DRAINAGE EASEMENTS EXCEPT FOR CROSSINGS.
- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO OBTAIN THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.
- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY LAND DISTURBING ACTIVITIES THAT MAY IMPLY THE CONSTRUCTION OF ANY STRUCTURE OR OTHER ACTIVITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY DISTURBANCE WHICH THIS MAY EFFECT.
- THERE ARE NO RETAINING WALLS PROPOSED FOR THIS SITE.
- ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH STATE LAWS LOCAL ORDINANCES AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY COUNTY/CITY OFFICIALS OF ALL REQUIRED INSPECTIONS.
- ALL CONSTRUCTION CONTRACTORS MUST OBSERVE THE LIMITS OF CONSTRUCTION OR DISTURBANCE AS SHOWN.
- ALL ROADS MUST BE SIGNED IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC DESIGN, (MUTCD), LATEST EDITION.
- ALL UTILITIES SHALL REMAIN ON THE PROPERTY UNTIL THE ISSUANCE OF A DEVELOPMENT PERMIT. MAINTAIN EXISTING TREES WHERE POSSIBLE, GRADING ONLY FOR THE HOUSE, DRIVEWAY, AND STORMWATER REQUIREMENTS. MASS GRADING IS PROHIBITED.
- NOTIFY COUNTY INSPECTIONS 48 HOURS BEFORE BEGINNING OF EVERY PHASE PHASE OF CONSTRUCTION AND PRIOR TO ANY INSPECTION.
- ALL CUTS IN PAVEMENT AND PAVEMENT EDGES ADJOINING NEW PAVEMENT SHALL BE SAW CUT.
- NO WELLS EXIST ON THIS SITE. IF ANY ONSITE WELLS ARE FOUND, THEY MUST BE CLOSED PER DR. PROTOCOL.
- UTILITIES PROVIDED BY:
 - WATER: COBB COUNTY
 - SEWER: COBB COUNTY
 - ELECTRIC: COBB COUNTY
- ALL UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS BASED ON LOCAL UTILITY MAPS. VERIFY USABLE ABOVE GROUND EVIDENCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTING LOCATION AND EXISTENCE OF ANY AND ALL UTILITIES BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. CALL 811 FOR UTILITY PROTECTION CENTER.
- A COBB COUNTY LAND DISTURBANCE PERMIT MUST BE IN PLAIN VIEW FROM A PUBLIC ROAD.
- ALL SIGNS TO BE PERMITTED THROUGH THE CODE ENFORCEMENT DIVISION, I.E., SUBDIVISION EXTRANEAL SIGNS, MONUMENTS, AND ALL COMMERCIAL SIGNS.
- ANY INFRASTRUCTURE (PAVEMENT, DRAINAGE STRUCTURE, CURB & GUTTER, SIDEWALKS, SIGNALS, ETC.) DAMAGED OR DISPLACED AS A RESULT OF THIS PROJECT SHALL BE REPLACED BY THE CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS AND POSTAL SERVICE THROUGHOUT THE DURATION OF THE PROJECT.
- NO CULTURAL FEATURES, INCLUDING CEMETERIES AND HISTORIC FEATURES, EXIST ON THIS PROPERTY. THE COBB COUNTY CEMETERY PRESERVATION COMMISSION RESERVES THE RIGHT TO EXAMINE THIS PROPERTY FOR ETHNIC, CULTURAL, AND RELIGIOUS EVIDENCE LOCATED THEREIN. IF ANY ETHNIC, CULTURAL, OR RELIGIOUS EVIDENCE IS FOUND DURING DEVELOPMENT, THEN THE COBB COUNTY CEMETERY PRESERVATION COMMISSION MUST BE NOTIFIED AT ONCE AT (770) 528-2035. FAILURE TO DO SO MAY RESULT IN A STOP-WORK ORDER.
- COBB COUNTY ACCEPTS NO RESPONSIBILITY FOR AMERICANS WITH DISABILITIES ACT (ADA), EXCEPT FOR NOTIFICATION REQUIREMENT. THE OWNER/DEVELOPER IS SOLELY RESPONSIBLE FOR SAID ACT.
- ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED PARKING LOT ARE SHOWN AT THE FACE OF CURB. ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED BUILDING LOCATION ARE GIVEN AT THE OUTSIDE FACE OF THE BUILDING CORNERS. ALL CURB RADI ARE GIVEN AT THE FACE OF CURB.
- CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE SURVEY SHOWN ON THE PLANS BEFORE PROCEEDING WITH ANY NEW CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, AND UTILITIES.
- SEE ARCHITECTURAL PLANS FOR BUILDING FLOOR PLAN DIMENSIONS, DOOR LOCATIONS, SIGHT LIGHTING PLAN, AND OTHER ARCHITECTURAL DETAILS.
- PARKING LOT: PARKING SPACES SHALL CONFORM TO COUNTY DETAIL # 114.
- ANY CONSTRUCTION TRAILERS TO BE PERMITTED THROUGH THE ZONING DIVISION.
- THE COBB COUNTY CEMETERY PRESERVATION COMMISSION RESERVES THE RIGHT TO EXAMINE THIS PROPERTY FOR ETHNIC, CULTURAL AND RELIGIOUS EVIDENCE LOCATED THEREIN. IF ANY ETHNIC, CULTURAL OR RELIGIOUS EVIDENCE IS FOUND DURING DEVELOPMENT, THEN THE COBB COUNTY CEMETERY PRESERVATION COMMISSION MUST BE NOTIFIED AT ONCE AT (770)528-2035. FAILURE TO DO SO MAY RESULT IN A STOP-WORK ORDER.

FIRE DEPARTMENT NOTES

- BUILDING IS TO BE SPRINKLED.
- ARCHITECT TO SUBMIT BUILDING PLANS TO FIRE DEPARTMENT TO ENSURE DEPARTMENT COMPLIANCE.
- MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION, I.E., IN TIMES OF RAIN AND MUD. ROADS SHALL BE ABLE TO SUPPORT A FIRE TRUCK. ROADS SHALL BE PAVED OR HAVE A CRUSHED STONE BASE WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO BUILDINGS THAT HAVE SPRINKLER OR STANDPIPE SYSTEMS SHALL BE WITHIN 40 FEET OF A FIRE DEPARTMENT CONNECTION. (N.F.P.A. 1141 3-1 AND GOFD-15)
- ATTACHED DWELLING OR DWELLINGS LESS THAN 10 FEET APART REQUIRE FIRE HYDRANTS TO BE SET LOCATED 100 FEET FROM THE FURTHEST PART OF A STRUCTURE.
- FIRE APPARATUS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FEET AND AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13 FEET 6 INCHES
- NO GATES ARE PROPOSED IN THIS SUBMITTAL. IF GATES ARE TO BE USED, THEY MUST ALLOW FOR A 20-FOOT UNOBSTRUCTED ACCESS AND A KEY LOCK BOX MUST BE PROVIDED. ORDER FORMS ARE AVAILABLE AT THE FIRE MARSHAL'S OFFICE.
- FIRE INSPECTOR MUST INSPECT FIRE PROTECTION WATER MAINS AND THRUST BLOCKING. CALL TO SCHEDULE THIS INSPECTION.
- ALL WATER SERVICES WILL BE REQUIRED TO HAVE TRACER WIRE.
- WATER SERVICES WILL BE INDICATED IN THE STREET CURB BY AN IMPRINTED 'W'.
- TRANSFORMER PAD TO BE AT LEAST 14' FROM ANY DOOR, 10' FROM ANY BUILDING, OVERHANGS, CANOPIES, EXTERIOR WALLS, BALCONY, EXTERIOR STAIRS, WALKWAY OR OPENINGS. DISTANCE FROM THE BUILDING MAY BE REDUCED TO 3 FEET IF EXTERIOR IS NON-COMBUSTIBLE WALL WITH OVERHANG. IF EXTERIOR IS ASSUMED TO HAVE BRICK FASCIA, IF ARCHITECTURE EXTERIOR FASCIA OF BUILDING CHANGES AFTER LDP, TRANSFORMER PAD TO BE RELOCATED IF NECESSARY.
- DESIGNATED FIRE LINES TO MEET THE FOLLOWING REQUIREMENTS:
 - BOTH SIDES OF SIGNS SHALL READ "NO PARKING FIRE LINE"
 - LETTERS SHALL NOT BE LESS THAN 2" IN HEIGHT.
 - ONE SIGN SHALL BE POSTED AT THE BEGINNING OF THE FIRE LINE WITH SIGNS NOT MORE THAN 50' APART.
 - SIGNS SHALL NOT BE MORE THAN 4 FEET FROM THE EDGE OF CURB AND SHALL BE VISIBLE FROM BOTH DIRECTIONS OF DRIVING SURFACE.
 - HEIGHT OF SIGN FACE AS MEASURED FROM THE BOTTOM OF THE SIGN SHALL BE A MINIMUM OF 4" AND A MAXIMUM OF 7" FROM GROUND LEVEL.
- RELOCATING SIGNAGE MAY BE USED WITH FIRE MARSHAL'S APPROVAL.
- FOR LANES 20'-36" WIDE, SIGNS AND MARKINGS WILL BE REQUIRED ON BOTH SIDES. FOR LANES 29'-37" WIDE, SIGNS AND MARKINGS WILL BE REQUIRED ON ONE SIDE. LANES IN EXCESS OF 37 FEET WIDE REQUIRE NO SIGNS OR MARKINGS.
- CURBING OR INPADE DELINEATED FIRE LINES SHALL BE PAINTED RED. THE TOP AND FACE OF THE CURB SHALL BE PAINTED RED.
- THE LIFE SAFETY INSPECTOR WILL MAKE FINAL DETERMINATION OF FIRE LINES BEFORE FINAL INSPECTION IS MADE.
- SITE PLAN APPROVAL DOES NOT INCLUDE TANKS. TANK LOCATION AND TYPE SHALL BE SUBMITTED SEPARATELY.

COBB COUNTY GENERAL UTILITY NOTES:

- CONSTRUCTION TO MAINTAIN COBB COUNTY WATER SYSTEM SPECIFICATIONS AND IN ACCORDANCE WITH COBB COUNTY ORDINANCES.
- THE DEVELOPER AND/OR DEVELOPER'S CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE AND MATERIALS OF ALL UTILITIES PROPOSED FOR CONSTRUCTION OR USE BY THIS PROJECT. THE RELOCATION OF ANY WATER/SEWER FACILITY REQUIRED TO AVOID ANY PART OF THIS DEVELOPMENT IS THE RESPONSIBILITY OF THE DEVELOPER.
- CALL (770) 528-8310 FOR PRE-CONSTRUCTION INSPECTION. CONDUIT SHALL BE INSTALLED FOR FUTURE REQUIREMENT OF SUPERVISED SYSTEM.
- THE SITE CONTRACTOR SHALL COORDINATE SERVICE ROUTING OF ALL GAS, TELEPHONE, AND ELECTRICAL LINES WITH THE APPROPRIATE UTILITY COMPANY. ALL CONSTRUCTION MUST COMPLY WITH EACH UTILITY'S STANDARDS AND SPECIFICATIONS AND NOT INTERFERE WITH TREE PLANTING SITES OR EXISTING TREES TO BE PRESERVED.
- THE COBB COUNTY ARBORIST OR LANDSCAPE ARCHT. MUST APPROVE THE SITE LIGHTING PLAN. LIGHT POLES ARE NOT PERMITTED IN PARKING PENINSULAS, ISLANDS AND MEDIANS WITH OUT THE PRIOR WRITTEN APPROVAL OF THE COUNTY ARBORIST. 20' MIN. SPACING IS REQUIRED BETWEEN THE TRUNK OF ANY PROPOSED OVER-STORY HARDWOOD TREE (OR EXISTING TREE) FOR TREE ORNAMENTAL CREDIT) AND ANY EXISTING OR PROPOSED LIGHT POLE. IF THE SERVICE PROVIDER (ELECTRIC COMPANY) PRODUCES A LIGHTING PLAN, IT MUST ADHERE TO THE LIGHTING PLAN SHOWN IN THE CIVIL ENGINEERING DRAWINGS APPROVED BY COBB COUNTY FOR THE LAND DISTURBANCE PERMIT. IF A LIGHTING PLAN IS NOT PART OF THE DRAWINGS, THE LIGHTING PLAN DESIGNER MUST SUBMIT A PLAN TO THE ARBORIST/LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. IF SITE LIGHTING IS INSTALLED WITHOUT APPROVED PLAN, THE CERTIFICATE OF OCCUPANCY WILL BE WITHHELD UNTIL CONFLICTING POWER POLES ARE MOVED. CALL 770-528-2124.
- A TRENCING & DITCHING PERMIT IS REQUIRED PRIOR TO ANY WATER OR SEWER MAIN CONSTRUCTION. ENGINEER, TRENCING SAFETY REQUIREMENTS WILL BE STRICTLY ENFORCED.
- ENGINEER REQUIRED TO FURNISH COBB COUNTY AS-BUILT DRAWINGS.
- NO BUILDING PERMIT WILL BE ISSUED UNTIL ALL WATER AND SEWER DEVELOPMENT FEES ARE PAID IN FULL.
- WATER & SEWER SERVICE LATERAL LOCATIONS ARE TO BE PERMANENTLY MARKED ON CURB.
- STREET/LANE CLOSING: OBTAIN A PERMIT PRIOR TO ANY WORK.
 - TOTAL CLOSURE: COBB DOT 770-528-1675
 - LANE CLOSURE: INSPECTIONS 770-528-2145

SEWER NOTES:

- LINE TO BE 8" PVC (SDR 35, ASTM D-3034) OR 8" D.I.P.
- SERVICES TO BE 6" PVC.
- MANHOLES TO BE 4' DIAMETER PRECAST.
- LINE TO BE 7" STREET (MIN)
- LINE TO BE 4' ON OUTFALL (MIN)
- PLEASE CALL (770) 419-6320 TO SCHEDULE SEWER CONNECTION INSPECTION 24 HOURS PRIOR TO CONSTRUCTION.
- SEWER PIPE SHALL HAVE GRAVEL BEDDING.
- ALL MANHOLES REQUIRED: KOR-N-SEAL (OR EQUAL) RUBBER BOOT EQUAL BOOTS MUST BE APPROVED BY ENGINEERING DIVISION PRIOR TO USE. PLEASE CALL 770-419-6320 TO SCHEDULE INSPECTION OF SEWER IN-IT.
- ALL FILL TO BE IN PLACE AND COMPACTED PRIOR TO THE INSTALLATION OF THE SEWER LINE.
- TRANSITION JOINTS BETWEEN SEWER PIPES OF DIFFERENT MATERIALS SHALL BE ACCOMPLISHED BY THE USE OF ADAPTERS. CONCRETE COLLARS ARE NOT ACCEPTABLE.
- A TRENCING & DITCHING PERMIT IS REQUIRED PRIOR TO ANY WATER OR SEWER MAIN CONSTRUCTION. UTILITY CONTRACTOR CAN OBTAIN THIS PERMIT BY CONTACTING FRANK GIBSON AT (770) 528-2191.
- ALL SANITARY SEWER MANHOLES OR 8" DIAMETER OR GREATER MAINS THAT ARE INSTALLED WITH THIS PROJECT MUST BE PRE-CAST WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS TO GO OVER COWS REQUIREMENTS.
- DEVELOPER/CONTRACTOR TO ADJUST MANHOLE RING AND COVER ELEVATIONS TO GRADE (ASPHALT OR LANDSCAPE) IN ACCORDANCE WITH COBB COUNTY WATER MAINS (OR EQUAL) MEETING FEDERAL SPECIFICATIONS SS-S201A "SEALING COMPOUND, PREFORMED PLASTIC FOR PIPE JOINTS". TYPE I ROPE FORM AND AASHTO DESIGNATION M-198 751, TYPE B, FLEXIBLE PLASTIC GASKET (BITUMEN) ARE ALSO ACCEPTABLE.
- CONTRACTOR TO FIELD VERIFY ALL SLOPES LESS THAN 1% IN PRESENCE OF COBB COUNTY WATER SYSTEM INSPECTOR. EXCEPT EXCEPT PRECAST CONCRETE SLABS SHALL BE USED WHERE COVER OVER THE TOP OF THE PIPE IS LESS THAN FOUR FEET FOR ALL MANHOLES.
- PRECAST CONCRETE SLABS OVER TOP SECTION, WHERE REQUIRED, SHALL BE CAPABLE OF SUPPORTING THE OVERBURDEN PLUS A LIVE LOAD EQUIVALENT TO AASHTO H-20 LOADING.
- MANHOLE STEPS SHALL BE CAST INTO THE PRECAST SECTIONS AND SHALL CONFORM TO ASTM SPECIFICATION C478. STEPS SHALL BE PLASTIC STEP BY M. A. INDUSTRIES, INC., OR EQUAL.
- HOLES IN PRECAST SECTIONS TO RECEIVE SEWER PIPE SHALL BE PRECAST AT THE FACTORY AT THE REQUIRED LOCATIONS. ALL PRECAST HOLES SHALL HAVE KOR-N-SEAL (OR EQUAL) RUBBER BOOTS.
- THE TOPS OF BASES SHALL BE SUITABLY SHAPED TO MATE WITH THE PRECAST BARREL SECTION.
- CAST IRON FRAMES AND COVERS SHALL BE EAST JORDAN IRON WORKS MODEL W-1480, STANDARD; W-2480, BOLDTOWN WATERRIGHT; U.S. FOUNDRY MODEL 360-C, STANDARD; 360-E/ORS, BOLDTOWN WATERRIGHT; OR EQUAL.
- MANHOLES AND OTHER PRECAST STRUCTURES SHALL BE CONSTRUCTED TO THE DIMENSIONS AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THESE SPECIFICATIONS.
- THE BASE SHALL BE CAST-IN-PLACE CONCRETE PLACED ON A THOROUGHLY COMPACTED GRAVEL SUB-BASE. THE TOPS OF THE CAST-IN-PLACE BASES SHALL BE SHAPED TO MATE WITH THE PRECAST BARREL SECTION, AND SHALL BE ADJUSTED TO FINISH OR SPECIFIED GRADE.
- PRECAST BASES CONFORMING TO ALL REQUIREMENTS OF ASTM C478 AND ABOVE LISTED REQUIREMENTS FOR PRECAST SECTIONS, MAY BE USED.
- PRECAST CONCRETE STRUCTURE SECTIONS SHALL BE SET TO BE VERTICAL AND WITH SECTIONS IN TRUE ALIGNMENT WITH 4.1-4" MAXIMUM TOLERANCE TO BE ALLOWED.
- HOLES IN THE CONCRETE PIPE SECTIONS REQUIRED FOR HANDLING OR OTHER PURPOSES SHALL BE PLUGGED WITH A NON-SHRINKING GROUT.
- WHERE HOLES MUST BE CUT IN THE PRECAST SECTIONS TO ACCOMMODATE PIPES, CORING SHALL BE DONE PRIOR TO SETTING THEM IN PLACE.
- CAST IRON FRAMES SHALL BE PLACED, SHIMMED, AND SET IN PORTLAND CEMENT MORTAR TO THE REQUIRED GRADE. NO MORE THAN THREE COURSES OF LEVELING RIVETS SHALL BE USED.

WATER NOTES:

- LINE SIZE TO BE AS SHOWN
- LINE TO BE 12" MIN. 2" COVER
- LINE TO BE UNBENT
- ALL LONG SIDE SERVICES TO BE ENCASED IN PVC CONDUIT
- A TRENCING & DITCHING PERMIT IS REQUIRED PRIOR TO ANY WATER OR SEWER MAIN CONSTRUCTION. UTILITY CONTRACTOR CAN OBTAIN THIS PERMIT BY CONTACTING FRANK GIBSON AT (770) 528-2191.
- ALL SANITARY SEWER MANHOLES OR 8" DIAMETER OR GREATER MAINS THAT ARE INSTALLED WITH THIS PROJECT MUST BE PRE-CAST WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS TO GO OVER COWS REQUIREMENTS.
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- PRECAST CONCRETE SLABS OVER TOP SECTION, WHERE REQUIRED, SHALL BE CAPABLE OF SUPPORTING THE OVERBURDEN PLUS A LIVE LOAD EQUIVALENT TO AASHTO H-20 LOADING.
- MANHOLE STEPS SHALL BE CAST INTO THE PRECAST SECTIONS AND SHALL CONFORM TO ASTM SPECIFICATION C478. STEPS SHALL BE PLASTIC STEP BY M. A. INDUSTRIES, INC., OR EQUAL.
- HOLES IN PRECAST SECTIONS TO RECEIVE SEWER PIPE SHALL BE PRECAST AT THE FACTORY AT THE REQUIRED LOCATIONS. ALL PRECAST HOLES SHALL HAVE KOR-N-SEAL (OR EQUAL) RUBBER BOOTS.
- THE TOPS OF BASES SHALL BE SUITABLY SHAPED TO MATE WITH THE PRECAST BARREL SECTION.
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- PRECAST BASES CONFORMING TO ALL REQUIREMENTS OF ASTM C478 AND ABOVE LISTED REQUIREMENTS FOR PRECAST SECTIONS, MAY BE USED.
- PRECAST CONCRETE STRUCTURE SECTIONS SHALL BE SET TO BE VERTICAL AND WITH SECTIONS IN TRUE ALIGNMENT WITH 4.1-4" MAXIMUM TOLERANCE TO BE ALLOWED.
- HOLES IN THE CONCRETE PIPE SECTIONS REQUIRED FOR HANDLING OR OTHER PURPOSES SHALL BE PLUGGED WITH A NON-SHRINKING GROUT.
- WHERE HOLES MUST BE CUT IN THE PRECAST SECTIONS TO ACCOMMODATE PIPES, CORING SHALL BE DONE PRIOR TO SETTING THEM IN PLACE.
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COBB DOT NOTES:

- NO DEVELOPERS/BUILDERS/PROPERTY OWNERS ARE PERMITTED TO MODIFY THE 13" SHOULDER OF THE APPROVED ROADWAY CROSS-SECTION WITHOUT PRIOR WRITTEN APPROVAL FROM COBB COUNTY DEVELOPMENT CONTROL DEPT.
- ROADWAY SIGNING AND MARKING, INCLUDING STOP BAR AND CROSSWALKS, PLANS ARE REQUIRED.
- CONTRACTOR SHALL RESTORE ROADWAY SHOULDERS TO MINIMUM COBB COUNTY SPECIFICATIONS. LANE OR ROAD CLOSURE PERMITS MUST BE OBTAINED PRIOR TO ANY WORK IN COUNTY ROADWAY.
- ALL UTILITIES SHALL BE PLACED IN ACCORDANCE WITH STATE LAWS LOCAL ORDINANCES AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY COUNTY/CITY OFFICIALS OF ALL REQUIRED INSPECTIONS.
- CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS AND POSTAL SERVICE THROUGHOUT THE DURATION OF THE PROJECT.
- NO CULTURAL FEATURES, INCLUDING CEMETERIES AND HISTORIC FEATURES, EXIST ON THIS PROPERTY. THE COBB COUNTY CEMETERY PRESERVATION COMMISSION RESERVES THE RIGHT TO EXAMINE THIS PROPERTY FOR ETHNIC, CULTURAL, AND RELIGIOUS EVIDENCE LOCATED THEREIN. IF ANY ETHNIC, CULTURAL, OR RELIGIOUS EVIDENCE IS FOUND DURING DEVELOPMENT, THEN THE COBB COUNTY CEMETERY PRESERVATION COMMISSION MUST BE NOTIFIED AT ONCE AT (770)528-2035. FAILURE TO DO SO MAY RESULT IN A STOP-WORK ORDER.
- CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE SURVEY SHOWN ON THE PLANS BEFORE PROCEEDING WITH ANY NEW CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, AND UTILITIES.
- SEE ARCHITECTURAL PLANS FOR BUILDING FLOOR PLAN DIMENSIONS, DOOR LOCATIONS, SIGHT LIGHTING PLAN, AND OTHER ARCHITECTURAL DETAILS.
- PARKING LOT: PARKING SPACES SHALL CONFORM TO COUNTY DETAIL # 114.
- ANY CONSTRUCTION TRAILERS TO BE PERMITTED THROUGH THE ZONING DIVISION.
- THE COBB COUNTY CEMETERY PRESERVATION COMMISSION RESERVES THE RIGHT TO EXAMINE THIS PROPERTY FOR ETHNIC, CULTURAL AND RELIGIOUS EVIDENCE LOCATED THEREIN. IF ANY ETHNIC, CULTURAL OR RELIGIOUS EVIDENCE IS FOUND DURING DEVELOPMENT, THEN THE COBB COUNTY CEMETERY PRESERVATION COMMISSION MUST BE NOTIFIED AT ONCE AT (770)528-2035. FAILURE TO DO SO MAY RESULT IN A STOP-WORK ORDER.
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EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES

REFERENCE TO GSWCC EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN CHECKLIST - COMMON DEVELOPMENTS

GENERAL EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES

1. THE ESDPC PLAN INCLUDES, AS A MINIMUM, BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT SEDIMENTATION, WHICH ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (LATEST EDITION).
2. ALL ON-SITE WETLANDS AND BUFFERED STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN DELINEATED.
3. THE HYDROLOGY STUDY FOR THIS SITE IS PROVIDED IN A SEPARATE DOCUMENT FROM THIS PLAN. STUDY TITLED: "STORMWATER MANAGEMENT REPORT FOR EMERSON MANOR" AND SUBMITTED ON 08-12-15 BY GASKINS SURVEYING & ENGINEERING.
4. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
5. AMENDMENTS TO THE ESDPC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

LAND DISTURBANCE CONSTRUCTION ACTIVITY SEQUENCE

THE FOLLOWING SEQUENCES ARE TO BE IMPLEMENTED IN THE ORDER SHOWN, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, REVISIONS, PRE-CONSTRUCTION CONFERENCE, ETC., DICTATES A DEVIATION FROM THIS SCHEDULE. IF A DEVIATION IS UNDERTAKEN OR ANTICIPATED, THE ENGINEER SHALL BE NOTIFIED AND THE CHANGE OF SEQUENCE SHALL BE RECORDED IN THE DAILY LOG.

PHASE I - CLEARING & GRUBBING PLAN

1. OBTAIN AND POST COPY OF LAND DISTURBANCE PERMIT ON SITE.
2. SET UP A PRE-CONSTRUCTION CONFERENCE AT THE SITE WITH THE OWNER'S REPRESENTATIVE, CONTRACTOR, PROJECT DESIGN TEAM, AND COUNTY/CITY INSPECTOR TO REVIEW THE EROSION CONTROL AND SITE WORK CONSTRUCTION DOCUMENTS REQUIREMENTS.
3. SET UP A DAILY INSPECTION LOG FOR THE BMP INSPECTIONS TO BE KEPT IN THE CONSTRUCTION TRAILER.
4. CONSTRUCT THE CONSTRUCTION ENTRANCES/EXITS AT THE PROPOSED LOCATION AS SHOWN ON THE PLANS.
5. DELINEATE BUFFERS AND TREE PROTECTION LIMITS WITH TREE PROTECTION FENCING AS SHOWN ON PLANS.
6. FLAG AND STAKE PROPERTY LINES AND PROPERTY CORNERS, IF APPLICABLE, AS SHOWN.
7. INSTALL ALL SILT FENCE AS SHOWN ON PHASE-I EROSION CONTROL PLAN (ECP).
8. CLEAR AND GRUB ROUTES TO AREAS FOR TEMPORARY AND PERMANENT STRUCTURAL BEST MANAGEMENT PRACTICES (BMP).
9. INSTALL ROCK FILTER DAMS IN NATURAL SVALES, AS SHOWN ON THE PLANS, WITH MINIMAL DISTURBANCE TO THE ADJACENT AREA.
10. CONSTRUCT ALL OTHER STRUCTURAL BMP'S SHOWN ON THE PHASE-I ECP.
11. CONTRACTOR SHALL COMPLETE CLEARING AND GRUBBING FOR REMAINING AREAS OF CONSTRUCTION. ALL CLEARED MATERIAL TO BE HAULED OFF SITE OR STOCKPILED FOR CHIPPING OR TRO GRUBBING, OR BURNING, IF PERMITTED.

PHASE II - GRADING AND TEMPORARY VEGETATIVE PLAN

1. APPLY TEMPORARY VEGETATION (Dn1/Dn2) IN ACCORDANCE WITH PLANS AND NOTES IN THESE DOCUMENTS FOR CLEARED AREAS.
2. CONSTRUCT ALL STRUCTURAL BMP'S SHOWN ON THE PHASE-II ECP WHERE COMPLETION OF ROUGH GRADING IS NOT NECESSARY FOR INSTALLATION (I.E. AT TOP OF SLOPES, OTHER AREAS NOT TO BE AFFECTED BY ROUGH GRADING.)
3. COMMENCE WITH ROUGH GRADING ON SITE. INSTALL STRUCTURAL AND VEGETATIVE BMP'S AS SHOWN ON PLANS AND IN ACCORDANCE WITH NOTES AS ROUGH GRADING FOR EACH AREA IS COMPLETE.
4. INSTALL PERMANENT DETENTION PONDS(S), IF APPLICABLE, AS SHOWN.
5. CONSTRUCT TEMPORARY AND PERMANENT DRAINAGE STRUCTURES AS NECESSARY FOR PROPER SITE DRAINAGE AND CONVEYANCE TO THE PROPER BEST MANAGEMENT PRACTICES SHOWN ON THE PHASE-II ECP. INSTALL ALL OUTLET PROTECTION BMP'S CONCURRENT WITH DRAINAGE OUTFALLS.
6. INSTALL INLET PROTECTION (Sd2) AT ALL INLET STRUCTURES. USE Sd2-F OR Sd2-Bg AS SHOWN ON DETAILS.
7. AS SLOPES ARE BEING CONSTRUCTED, SPREAD FERTILIZER AND GRASS SEED ALONG WITH RECOMMENDED MULCHING AS SOON AS FINAL GRADE IS ACHIEVED TO HELP STABILIZE THESE SLOPES.
8. CONSTRUCT DIVERSION DIKES(DI) WITH DOWN DRAINS (Dn1) AS SHOWN ON THE PHASE II ECP. CONSTRUCT FILTER RINGS (Fr) AROUND EACH TEMPORARY DOWN DRAIN INLET.
9. SPREAD MATTING AND BLANKETS AND APPLY PERMANENT GRASSING TO ALL FINISHED SLOPES.
10. COMMENCE FINAL GRADING OF ALL ROADS, PARKING LOTS AND BUILDING PADS.

PHASE 3 - STORMWATER MANAGEMENT AND PERMANENT VEGETATIVE PLAN

1. INSTALL ALL SANITARY SEWER LINES AND REMAINING STORM DRAINS WITH OUTLET PROTECTION (Ss), LEVEL SPREADERS (Lv), AND/OR OTHER NECESSARY CHANNEL STABILIZATION AS REQUIRED AT HEADWALLS.
2. INSTALL INLET PROTECTION (Sd2) AT ALL INLET STRUCTURES. Sd2-P MAY BE INSTALLED ON INLET STRUCTURES WITH STRUCTURE TOPS IN PLACE.
3. SMOOTH GRADES AND PERMANENTLY VEGETATE DISTURBED AREAS AT COMPLETION OF PIPE CONSTRUCTION.
4. INSTALL AGGREGATE BASE FOR ALL ROADWAYS.
5. INSTALL CURB & GUTTER FOR ROADS AND PARKING LOTS.
6. AFTER A CURING TIME OF NO LESS THAN SEVEN DAYS, CURBS SHALL BE BACKFILLED AND SHOULDERS SHALL BE SMOOTH GRADED AND TEMPORARILY VEGETATED OR MULCHED. (Dn1/Dn2).
7. INSTALL UTILITIES IN THE SHOULDERS. APPLY TEMPORARY VEGETATION TO AREAS DISTURBED BY UTILITY CONSTRUCTION IN ACCORDANCE WITH PLAN NOTES.
8. CONSTRUCT SIDEWALKS AS SHOWN ON PLANS. AFTER A CURING TIME OF NO LESS THAN SEVEN DAYS, REMOVE FORMS AND APPLY MULCH OR VEGETATION TO DISTURBED AREAS.
9. PAVe ALL STREETS. APPLY FINAL STABILIZATION TO ANY REMAINING AREAS THAT HAVE NOT BEEN PERMANENTLY VEGETATED IN ACCORDANCE WITH NOTES IN THESE PLANS.
10. ALL SEDIMENT PONDS AND PERIMETER SILT FENCING TO REMAIN THROUGHOUT BUILDING CONSTRUCTION TO BE DONE BY OTHERS. AT COMPLETION OF BUILDING CONSTRUCTION, ALL AREAS ARE TO BE PERMANENTLY VEGETATED.
11. REMOVE TEMPORARY SEDIMENT PONDS AND OTHER TEMPORARY STRUCTURAL BMP'S FOLLOWING FINAL STABILIZATION AND WHEN PERMANENT VEGETATIVE COVER IS ESTABLISHED ON 80% OF THE SURFACE. USE PERMANENT VEGETATIVE BMP'S TO STABILIZE BACKFILL FROM REMOVAL OF STRUCTURAL BMP'S.
12. AS SOON AS CONCRETE BUILDING PADS ARE POURED, ALL AREAS AROUND AND BETWEEN THESE PADS AND THE STREETS/PARKING LOTS SHALL BE TEMPORARILY VEGETATED.
13. AS SOON AS PRACTICALLY POSSIBLE, PERMANENT LANDSCAPING SHALL BE INSTALLED ALONG ALL STREETS AND THROUGHOUT THE SITE TO PROTECT THE LAND AND HELP MINIMIZE THE EFFECTS OF SEDIMENT RUNOFF INTO STATE BUFFERS OR ONTO ADJACENT PROPERTIES.
14. DEVELOPER TO SUBMIT A NOTICE OF TERMINATION.

STORMWATER DISCHARGE POLLUTANT REDUCTION

THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN IDENTIFIES ALL POTENTIAL SOURCES OF POLLUTION WHICH MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORM WATER DISCHARGES FROM THE SITE. IN ADDITION, THE FOLLOWING PRACTICES SHALL BE IMPLEMENTED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY ON THE SITE.

- PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
- PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.
- FERTILIZERS/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
- BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

STORMWATER MANAGEMENT NOTES

THE FOLLOWING IS A DESCRIPTION OF MEASURES THAT MAY BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.

1. STORM WATER DETENTION STRUCTURES (INCLUDING WET PONDS)
2. STORM WATER RETENTION STRUCTURES
3. FLOW ATTENUATION BY USE OF OPEN VEGETATED SWALES AND NATURAL DEPRESSIONS
4. INFILTRATION OF RUNOFF ON-SITE
5. SEQUENTIAL SYSTEMS (WHICH COMBINE SEVERAL PRACTICES)
 - STRUCTURAL MEASURES SHOULD BE PLACED ON UPLAND SOILS TO THE DEGREE ATTAINABLE
 - THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA
 - THE ESDPC PLAN ONLY ADDRESSES THE INSTALLATION OF STORM WATER MANAGEMENT MEASURES, AND NOT THE ULTIMATE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION
 - OPERATORS ARE ONLY RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT MEASURES PRIOR TO FINAL STABILIZATION OF THE SITE, AND ARE NOT RESPONSIBLE FOR MAINTENANCE AFTER STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY HAVE BEEN ELIMINATED FROM THE 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 A WATER COURSE SO THAT THE CHANNEL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED [E.G. NO SIGNIFICANT CHANGES IN THE HYDROLOGICAL REGIME OF THE RECEIVING WATER(S).]

POLLUTION CONTROL NOTES

1. SOLID MATERIALS, INCLUDING BUILDING MATERIALS AND OTHER WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- 1.A. ALL TRASH AND CONSTRUCTION DEBRIS WILL BE COLLECTED AND STORED IN A METAL DUMPSITER.
- 1.B. THE DUMPSITER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS.
- 1.C. THE DUMPSITER WILL BE EMPTIED AS NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS.
- 1.D. NO CONSTRUCTION DEBRIS SHALL BE BURIED ONSITE, UNLESS ALLOWED BY LOCAL AUTHORITIES.
2. OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE FOLLOWING BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED ON THE SITE AS APPROPRIATE: CONSTRUCTION EXITS(S), MULCHES (DS1), VEGETATIVE COVER (DS2), SPRAY-ON-ADHESIVES (TACKIFIERS OR BINDERS), TILLAGE, IRRIGATION, BARRIERS, CALCULUM CHLORIDE, PERMANENT VEGETATION (DS3), TOPSOILING, AND/OR CONSTRUCTION ROAD STABILIZATION.
3. HAZARDOUS WASTES:
 - ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER SPECIFIED BY LOCAL, STATE &/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS)'S FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED &/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESDPC FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.
 - THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESDPC AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.
4. SANITARY WASTES:
 - A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH THE LOCAL, STATE AND FEDERAL REGULATIONS.
 - ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN PHASE TWO SHEET AS LISTED ON THE TABLE OF CONTENTS, BY THE CONTRACTOR ONCE THE LOCATIONS ARE NEARLY DETERMINED.
 - SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THE PROJECT.

SPILL CLEANUP AND CONTROL PRACTICES

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN APPROVED BY THAT LICENSED PROFESSIONAL.

INITIAL INSPECTION

FOR COMMON DEVELOPMENTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE AND THE DESIGN PROFESSIONAL SHALL RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE REQUIREMENTS ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

INSPECTIONS - PRIMARY PERMITTEE

1. EACH DAY WHEN ANY 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 AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR LEAVE THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
2. MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY 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 OCCURS 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; AND (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). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
4. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE 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).
5. 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, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. THE PRIMARY PERMITTEE MUST AVOID THE DISCHARGE IN ACCORDANCE WITH PART IV.D.4.B.(5), WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.
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., INITIAL, INTERMEDIATE OR FINAL), MAJOR 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 PROJECT THAT HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS 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 AN INCIDENT, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT 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.C.2. OF THIS PERMIT.

SAMPLING METHODOLOGY

- 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.
1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
 2. LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS WITH A MINIMUM SAMPLE SIZE OF 200 MILLILITERS SHOULD BE USED FOR COLLECTING SAMPLES.
 3. SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
 4. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
 5. 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.
 6. IF MANUAL SAMPLING IS EMPLOYED, THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM. THE SAMPLES SHOULD BE KEPT FRESH FROM FLOATING DEBRIS, AND CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
 7. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN AT THE DISCHARGE FARTHEST UPSTREAM AT THE SITE BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
 8. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN AT THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
 9. PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS INTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT.
 10. DILUTION OF SAMPLES IS NOT REQUIRED.
 11. SAMPLES MAY BE ANALYZED USING A DIRECT READING, PROPERLY CALIBRATED TURBIDIMETER.
 12. SAMPLES ARE NOT REQUIRED TO BE COOLED.
 13. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E. OF THE PERMIT.
 14. TURBIDITY RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU".

SAMPLING FREQUENCY

1. SAMPLING FREQUENCY SHALL OCCUR IN ACCORDANCE WITH PART IV.D.5.4 OF THE PERMIT.
2. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:
 - A. THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN PRIOR TO THE ACCUMULATION.
 - B. THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.
- 2.C. WHERE MANUAL AND AUTOMATIC SAMPLING ARE NOT POSSIBLE (AS DEFINED IN THE 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.
3. NORMAL BUSINESS HOURS, AS DEFINED BY THE PERMIT, ARE MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE.
4. SAMPLING SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER:
 - A. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION.
 - B. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION.
5. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM 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 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.
6. THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF 4.A. AND 4.B. BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

SAMPLING REPORTS

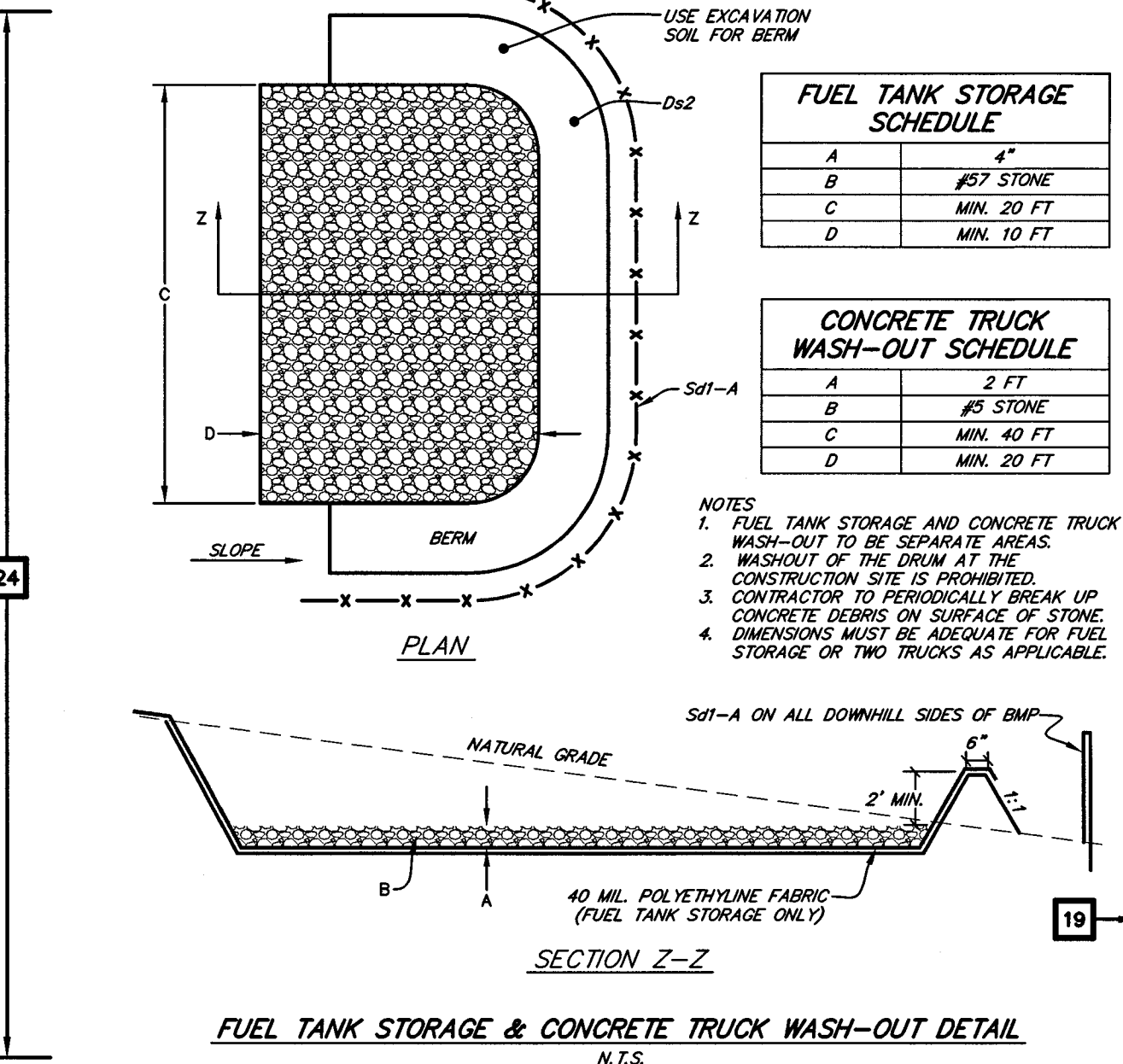
1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
 - A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
 - B. THE NAME(S) 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 ANALYSES;
 - F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
 - G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
 - H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU," AND
 - I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE APPLICABLE PERMITTEES SHALL RETAIN A COPY OF THE PROOF OF 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. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

RETENTION OF RECORDS

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 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 EPD;
 - 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.C. OF THIS PERMIT;
 - F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART II.D.2. OF THIS PERMIT; AND
 - G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.C.(2), OF THIS PERMIT.
2. EACH SECONDARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM 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 EPD;
 - B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT OR THE APPLICABLE PORTION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN FOR THEIR ACTIVITIES AT THE CONSTRUCTION SITE REQUIRED BY THIS PERMIT;
 - C. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.B. OF THIS PERMIT; AND
 - D. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART II.D.2. OF THIS PERMIT; AND
 - E. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.C.(2), OF THIS PERMIT.
3. EACH TERTIARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM 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 EPD;
 - 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.C. OF THIS PERMIT;
 - F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART II.D.2. OF THIS PERMIT; AND
 - G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.C.(2), OF THIS PERMIT.
4. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT 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 ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

PERMIT COVERAGE

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. **GA8-100003** FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR **COMMON DEVELOPMENTS**.



OWNER/DEVELOPER

MACALLAN CAPITAL, LLC
1642 POWERS FERRY ROAD, S.E.
SUITE 250

24 HOUR CONTACT NAME: JAMES L. RHODEN III
PHONE NUMBER: 404-603-8833

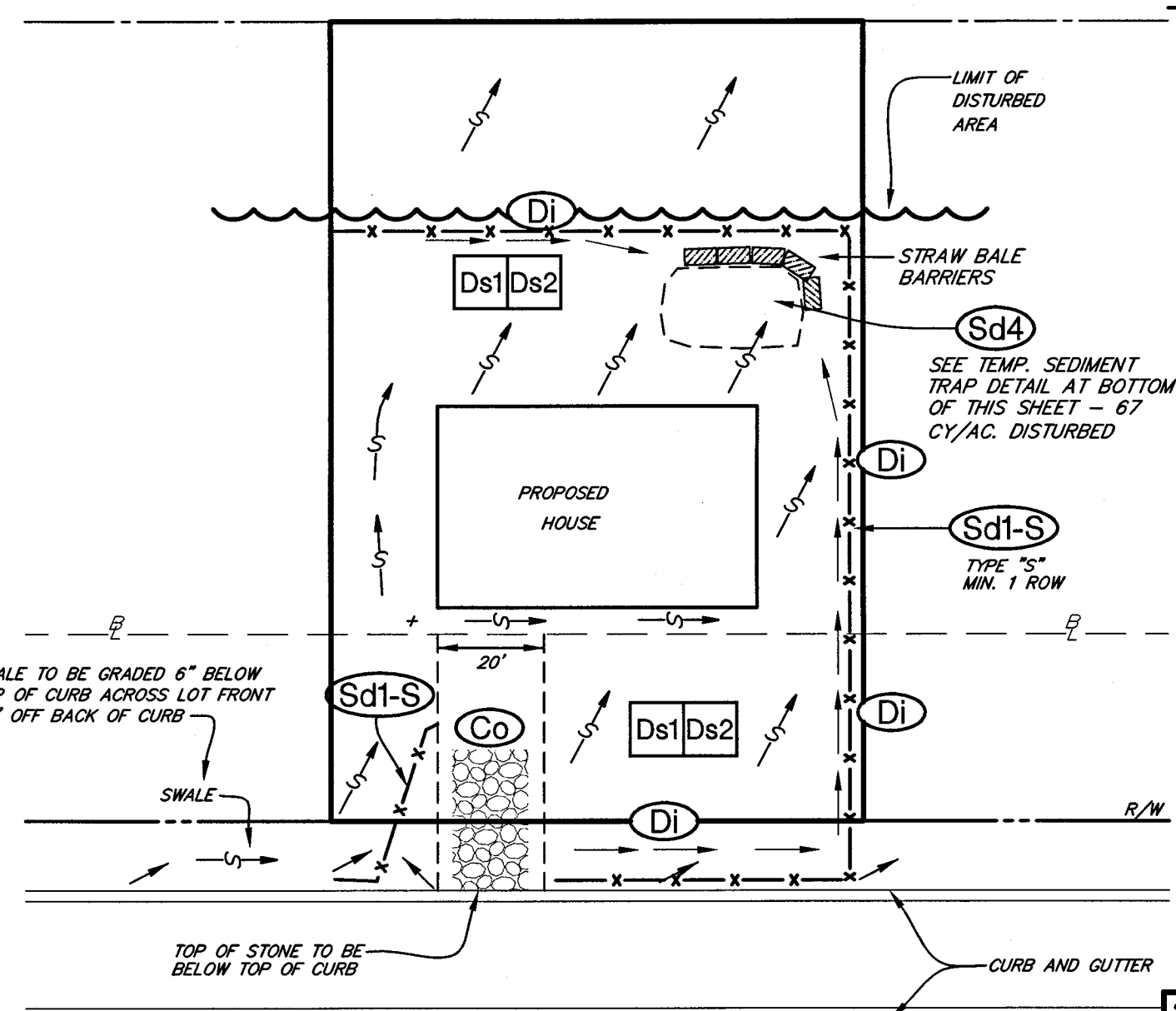
PRIMARY PERMITTEE

MACALLAN CAPITAL, LLC
1642 POWERS FERRY ROAD, S.E.
SUITE 250

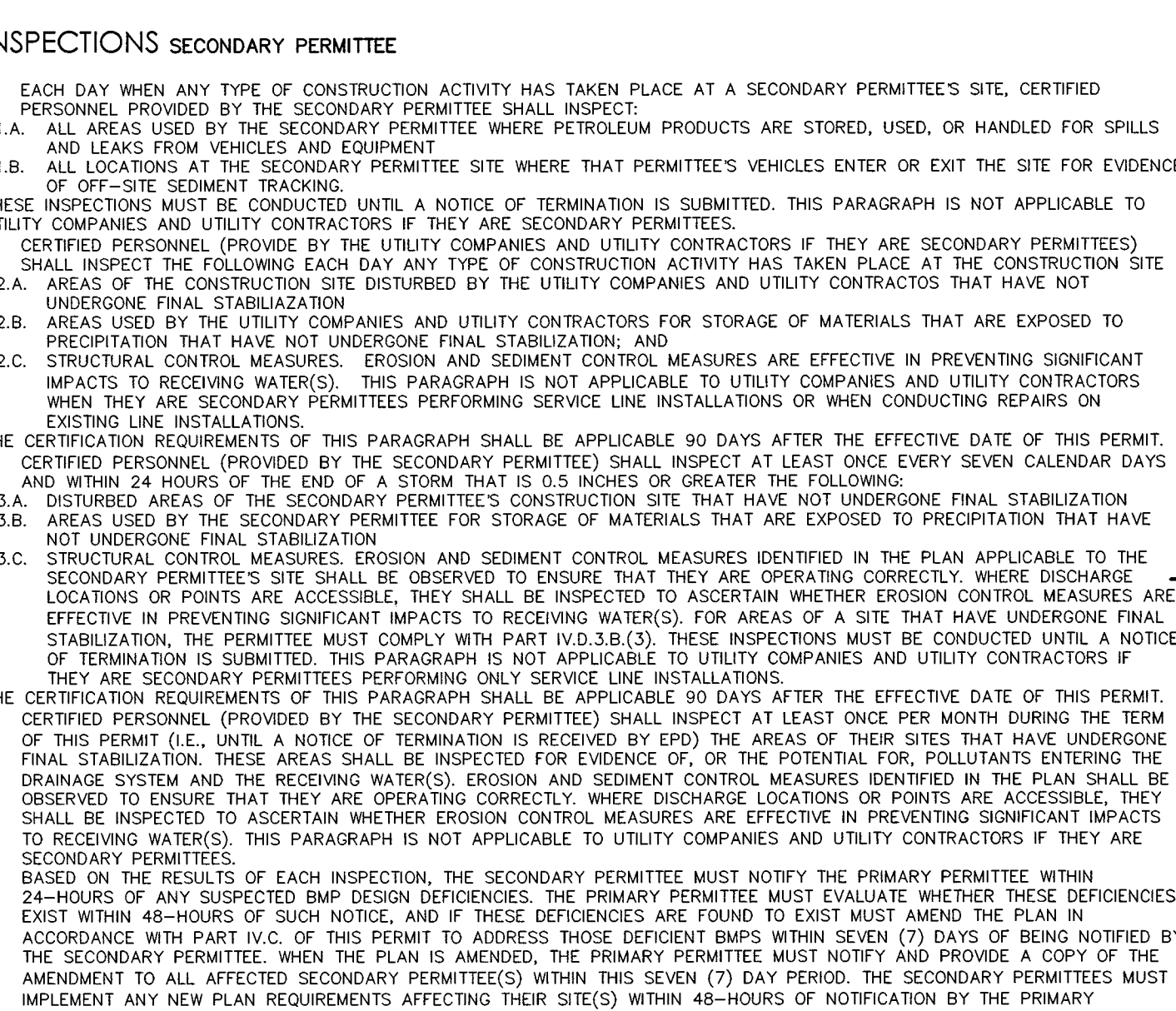
24 HOUR CONTACT NAME: JAMES L. RHODEN III
PHONE NUMBER: 404-603-8833

GENERAL SITE INFORMATION

1. TOTAL SITE AREA = 5.14 ACRES
2. TOTAL DISTURBED AREA = 5.14 ACRES (IF GREATER THAN 50 AC., SEE COMPLETED APPENDIX 1).
3. THERE ARE NO DELINEATED WETLANDS ON THE SITE.
4. THERE ARE NO BLUELINE STREAM(S) ON THE SITE.
5. THERE ARE NO TROUT STREAMS ON THE SITE.
6. RECUSSIONS: NOONDAY CREEK WHICH IS A PART OF THE COOSA WATERSHED BASIN.
7. THERE SHALL BE NO ADVERSE EFFECTS TO THE RECEIVING WATERS OR ADJACENT AREAS BY THIS PROJECT.
8. THIS PROJECT DOES NOT DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 MILE UPSTREAM OF, AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM (SEE ATTACHED APPENDIX 1).
9. CURRENTLY THE SITE IS UNDEVELOPED AND WOODED. THE EXISTING RUNOFF FROM THE SITE FLOWS FROM WOODED LAND WITH MODERATE TO HEAVY GROUND COVER. THE WATER QUALITY FROM THE SITE IS WHAT WOULD BE EXPECTED IN THIS TYPE OF AREA, WITH THE WATER CONTAINING ORGANIC PARTICULATES FROM VEGETATION DECOMPOSITION.
10. THIS PROJECT CONSISTS OF THE CONSTRUCTION OF AN 11



36 → TYPICAL EROSION CONTROL DETAIL FOR SLAB LOT WITH DRAINAGE TO REAR OF LOT



36 TYPICAL EROSION CONTROL DETAIL FOR BASEMENT LOT
WITH DRAINAGE TO REAR OF LOT

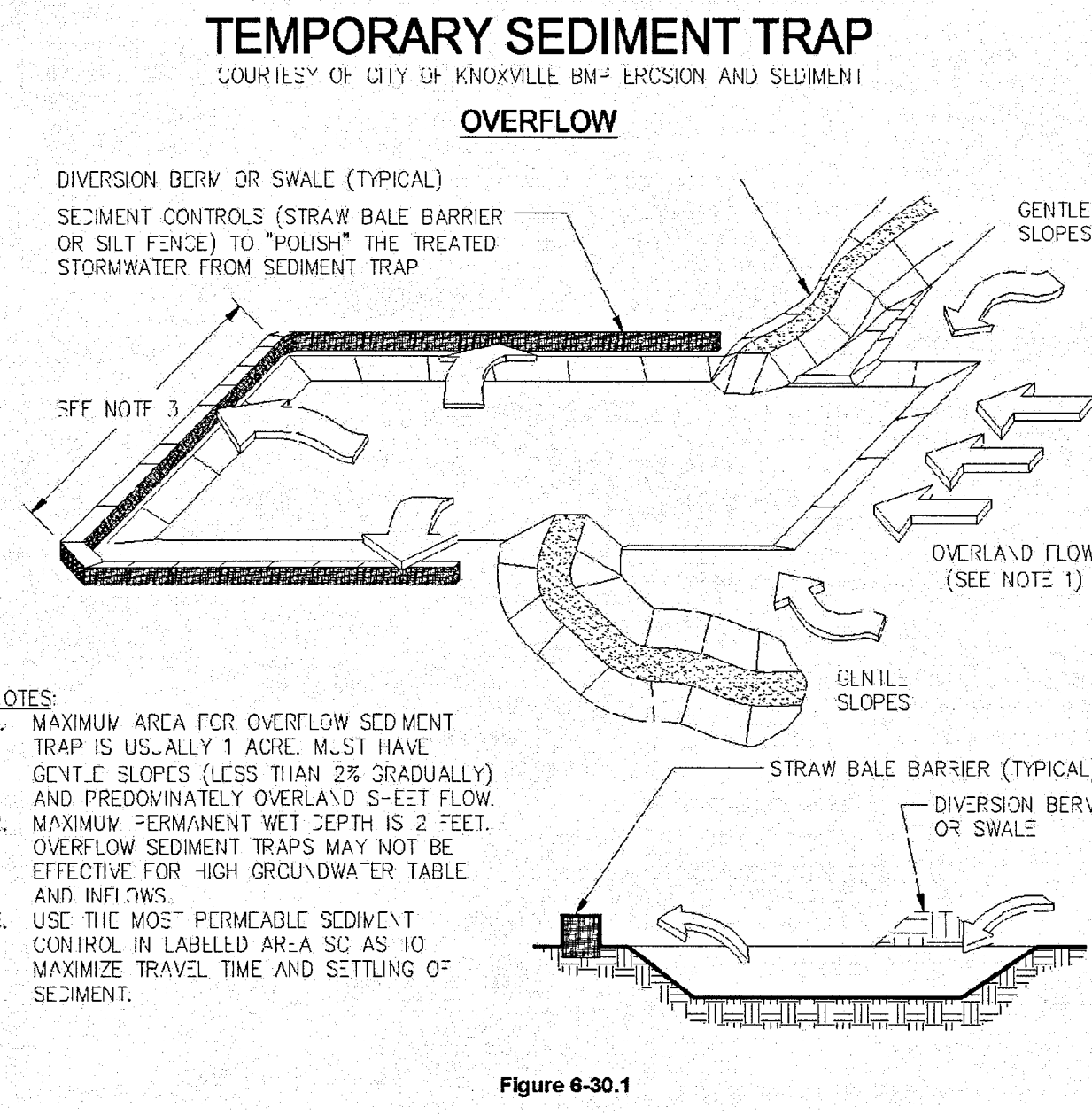


Figure 6-30.1

	NAME	ADDRESS	PHONE NO.
	SIGNATURE	DATE	GASWCC CERTIFICATION NO.
2.	NAME	ADDRESS	PHONE NO.
	SIGNATURE	DATE	GASWCC CERTIFICATION NO.
3.	NAME	ADDRESS	PHONE NO.
	SIGNATURE	DATE	GASWCC CERTIFICATION NO.
4.	NAME	ADDRESS	PHONE NO.
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	SIGNATURE	DATE	GASWCC CERTIFICATION NO.
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	SIGNATURE	DATE	GASWCC CERTIFICATION NO.
10.	NAME	ADDRESS	PHONE NO.
	SIGNATURE	DATE	GASWCC CERTIFICATION NO.
11.	NAME	ADDRESS	PHONE NO.
	SIGNATURE	DATE	GASWCC CERTIFICATION NO.
12.	NAME	ADDRESS	PHONE NO.
	SIGNATURE	DATE	GASWCC CERTIFICATION NO.

1. SECONDARY PERMITTEE IS RESPONSIBLE FOR EROSION CONTROL ON INDIVIDUAL LOTS DURING BUILDING CONSTRUCTION.
2. PRIOR TO CLEARING OF SITE, MARK ALL TREE PROTECTION AND BUFFERS AS INDICATED ON PRIMARY PERMITTEE'S EROSION CONTROL PLAN.
3. INSTALL SILT FENCE (501, Type "C") AT THE LOW SIDE LOT LINE(S), MAY BE REQUIRED AT MORE THAN ONE LOCATION ON THE LOT, STATE LAW REQUIRES TWO ROWS OF Type "C" SILT FENCE ALONG ALL STREAM BUFFERS.
4. REMOVE ALL DEBRIS FROM THE SITE AND DISPOSE IN ACCORDANCE WITH REGULATIONS OF THE LOCAL GOVERNING AUTHORITY.
5. INSTALL MODIFIED CONSTRUCTION EXIT (C6) AT THE STREET SIDE OF THE LOT, IN THE LOCATION OF THE PROPOSED DRIVE.
6. STRIP TOPSOIL FROM THE EXCAVATION SITE OR GRADED AREAS OF THE SITE AND STOCKPILE IN AN AREA DESIGNATED BY THE PRIMARY PERMITTEE. STOCKPILE AREA TO BE ENCLOSED IN SILT FENCE AND COVERED WITH MULCH (081).
7. EXCAVATE AND/OR GRADE SITE AS REQUIRED TO ESTABLISH FOUNDATION OF THE HOUSE AND ROUGH GRADES FOR THE HOUSE SITE.
8. APPLY MULCH AND/OR TEMPORARY GRASSING (D81 D82) ON ALL UNVEGETATED PORTIONS OF THE LOT, OUTSIDE EXCAVATION AND FOUNDATION AREA.
9. ONCE HOUSE FOUNDATION IS BACKFILLED OR SLAB ON GRADE IS ESTABLISHED, SECONDARY PERMITTEE IS TO RE-ESTABLISH MULCH AND/OR TEMPORARY GRASSING (D81 D82) ON ALL UNVEGETATED AREAS OF THE LOT.
10. GRADE AROUND PROPOSED HOMES TO FALL AT LEAST 6"-10" AWAY FROM HOUSE TO ENSURE ADEQUATE DRAINAGE.
11. IT IS THE RESPONSIBILITY OF THE SECONDARY PERMITTEE TO MAINTAIN MULCHING AND/OR TEMPORARY GRASSING (D81 D82) ON THE INDIVIDUAL LOT THROUGHOUT THE CONSTRUCTION PROCESS. ALL UNVEGETATED AREAS OF THE INDIVIDUAL LOT SHALL BE COVERED BY MULCH AND/OR TEMPORARY GRASSING (D81 D82) INCLUDING THE AREA OF RIGHT-OF-WAY IN FRONT OF THE INDIVIDUAL LOT.
12. THE CONSTRUCTION EXIT (C6) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRAFFIC OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 HINCH STONE.
13. IN THE EVENT OF A SPILL, OIL, FUEL, OR OTHER CONTAMINANTS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT, ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINAGE SHALL BE REMOVED IMMEDIATELY.
14. SEDIMENT BARRIERS (D81 D82) SHALL HAVE SEDIMENT REMOVED ONCE THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (NO MORE THE SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN REVEGETATED AND STABILIZED. SEDIMENT AT THE BARRIER(S) SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.
15. SECONDARY PERMITTEE IS RESPONSIBLE FOR COORDINATING THEIR E&S MEASURES WITH THOSE OF THE PRIMARY PERMITTEE.
16. WASH-DOWN OF ALL CONCRETE TRUCKS TO BE PERFORMED AT A SITE DESIGNATED BY THE PRIMARY PERMITTEE.
17. FINAL STABILIZATION OF THE INDIVIDUAL LOT SHALL BE ACHIEVED EITHER BY INSTALLATION OF SOIL OR WITH VEGETATION.
18. THE ABOVE LISTED MEASURES SHALL BE CONSIDERED BY THE SECONDARY PERMITTEE AS THE MINIMUM MEASURES REQUIRED TO ESTABLISH EROSION AND SEDIMENT CONTROL ON THE INDIVIDUAL LOT. THE SECONDARY PERMITTEE IS REQUIRED TO REPORT FOR EROSION AND SEDIMENT CONTROL TO GEORGIA FOR ADDITIONAL MEASURES THAT MAY BE NECESSARY TO ESTABLISH AND MAINTAIN BEST MANAGEMENT PRACTICES (BMP's) ON HIS INDIVIDUAL LOT.
19. SECONDARY PERMITTEE TO REPORT ALL SPILLS OF HAZARDOUS MATERIALS IN ACCORDANCE WITH "GEORGIA'S OIL AND HAZARDOUS MATERIAL SPILLS OR RELEASE ACT" (O.G.C.A. 12-14-2, 21.2-201, 40 CFR 117 or 40 CFR 302, CONTACT EPC AT (404) 656-4863 or (800) 241-4131 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802

1. THE SECONDARY PERMITEE MUST RETAIN A COPY OF THE ES&PC PLAN, OR THE APPLICABLE PORTION OF THE ES&PC PLAN FOR THEIR ACTIVITIES AT THE CONSTRUCTION SITE OR THE PLAN SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM THE DATE THE SECONDARY PERMITEE'S PROJECT BEGINS TO THE DATE OF FINAL STABILIZATION.
2. THE TERTIARY PERMITEE SHALL RETAIN A COPY OF THE TERTIARY EROSION CONTROL PLAN AND INSPECTION REPORTS REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE OR A READILY AVAILABLE DESIGNATED ALTERNATE LOCATION FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

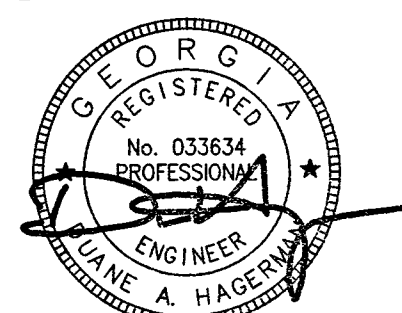
 REFERENCE TO GASWCC EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN CHECKLIST - COMMON DEVELOPMENTS

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Inc. is prohibited.

REVISIONS		
REV.	DATE	REVISION REFERENCE
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SHEET TITLE
NPDES - ES&PC
NOTES &
DETAILS (2 OF
2)

SEA



GaSWCC #10465

PROJECT I.D. 1502041	FIELD BOOK FIELD
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DRAWN BY ASH	CHECKED BY DH
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SCALE	ISSUE DATE
N.T.S.	10/19/15

SHEET NUMBER

CN3

Plotted By: chubushes
Drawing name: P:\Macallan Group\Holly Springs Rd Tract - 1502041\Engineering\Submit\HSR NPDES.dwg
Plotted on: Oct 19, 2015 - 8:10am

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
COMMON DEVELOPMENT CONSTRUCTION PROJECTS (Primary and Tertiary Permittees)
SWCD: _____ Address: _____
City/County: _____ Date on Plan: _____

Plan Page #	Included Y/N
1	Y

TO BE SHOWN ON ES&PC PLAN

ALL	Y
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4,5,6	Y
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CN2	Y
-----	---

CN2	Y
-----	---

4,5,6	Y
-------	---

4	Y
---	---

ALL	Y
-----	---

CN2	Y
-----	---

1	Y
---	---

CN2	Y
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CN2	Y
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CN2	Y
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CN2	Y
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CN2	Y
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CN2	Y
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CN2	Y
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CN2	Y
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CN2	Y
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CN2	Y
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- 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.)
- 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.)
- Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD 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.
(A copy of the written approval by EPD must be attached to the Plan for the Plan to be reviewed.)
- The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
- Provide the name, address and phone number of the primary permittee or tertiary permittee.
- Note total and disturbed acreage of the project or phase under construction.
- Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
- Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
- Description of the nature of construction activity.
- Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
- Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
- Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 18 of the permit.
- 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 page 17 & 18 of the permit.
- 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."
- 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 westered vegetation without first acquiring the necessary variances and permits."
- 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.
- Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."
- 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."
- 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."
- Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

CN3	Y
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CN2	Y
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CN2	Y
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4	Y
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CN2	Y
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CN2	Y
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CN2	Y
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CN2	Y
-----	---

CN2	Y
-----	---

CN2	Y
-----	---

CN2	Y
-----	---

CN2	Y
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4	Y
---	---

4,5,6	Y
-------	---

CN3	Y
-----	---

4,5,6	Y
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4,5,6	Y
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D1-CD3	Y
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CN2	Y
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- Indication that the applicable portion of the primary permittee ES&PC Plan is to be provided to each secondary permittee prior to the secondary conducting any construction activity and that each secondary shall sign the Plan or portion of the Plan applicable to their site. List the names and addresses of all secondary permittees.*
- 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 an Biot 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.*
- 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.*
- 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.
- Provide BMPs for the remediation of all petroleum spills and leaks.
- 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.
- Description of the practices that will be used to reduce the pollutants in storm water discharges.
- 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).
- Provide complete requirements of inspections and record keeping by the primary permittee or tertiary permittee.
- Provide complete requirements of sampling frequency and reporting of sampling results.*
- Provide complete details for retention of records as per Part IV.F. of the permit.
- Description of analytical methods to be used to collect and analyze the samples from each location.*
- Appendix B rationale for NTU values at all outfall sampling points where applicable.*
- Delineate all sampling locations if applicable, perennial and intermittent streams and other water bodies into which storm water is discharged.*
- 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.
- Plan addresses BMPs for all phases of common development including individual building lots and out-parcels, etc. regardless of who owns or operates the individual sites. Include a typical and any situational lots applicable.
- Graphic scale and North arrow.
- 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%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2.5 or 10
- 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 EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
- 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.

CN2	Y
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CN2	Y
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HYDRO	Y
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CN2	Y
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10	Y
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4	Y
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4,5,6	Y
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CD4	Y
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D1-CD3	Y
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D1-CD3	Y
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4,5,6	Y
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- Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
- Delineation and acreage of contributing drainage basins on the project site.
- Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*
- An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.*
- Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
- Soil series for the project site and their delineation.
- The limits of disturbance for each phase of construction.
- 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 must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage 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.
- 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.
- 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.
- 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 year that seeding will take place and for the appropriate geographic region of Georgia.

This requirement of the Common Development permit is not applicable to Tertiary Permittees with a Plan(s) for a typical individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre. If applicable, the "" checklist

Gaskins
ENGINEERING
SURVEYING
PLANNING/CONSULTING
CONSTRUCTION MGMT

1266 Powder Springs Road
Marietta, Georgia 30064
Phone: (770) 424-7168
Fax: (770) 424-7593

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EMERSON MANOR

SUBDIVISION

LAND LOT 552, 16TH DISTRICT, 2ND SECTION,
COBB COUNTY, GEORGIA
ZONED R-15

REVISIONS

REV.	DATE	REVISION REFERENCE:
1		
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9		

SHEET TITLE

NPDES CHECKLIST

SEAL



GaSWCC #10465

PROJECT I.D. 1502041	FIELD BOOK FIELD
DRAWN BY ASH	CHECKED BY DH
SCALE N.T.S.	ISSUE DATE 10/19/15
SHEET NUMBER CN5	

ISSUED FOR CONSTRUCTION