

PRELIMINARY PLAT
PREPARED FOR
Bravo Estates

LAND LOTS 307 & 308
11th DISTRICT, 2nd SECTION
AND
LAND LOT 289
12th DISTRICT, 2nd SECTION
GILMER COUNTY, GEORGIA
DATE: FEBRUARY 7, 2022

REVISIONS:

DATE	COMMENT

NO. 2718
MARK E. CHASTAIN
LAND SURVEYOR
REGISTERED IN THE STATE OF GEORGIA

3-16-2022

LEVEL II CERTIFICATION
NUMBER 17322

LEGEND

- IRON PIN FOUND
- UTILITY PIN SET
- NO MONUMENT
- ROCK
- MONUMENT
- FIRE HYDRANT
- UTILITY POLE
- WATER METER
- WATER VALVE
- SEWER PH
- LIGHT POLE
- POINT OF BEGINNING
- PROPERTY LINE
- CENTERLINE
- RIGHT OF WAY
- NEW OR FORMERLY
- DEED BOOK/PAGE
- PLAT BOOK/PAGE
- REINFORCED CONC. PIPE
- CORROGATED METAL PIPE
- CORROGATED PLASTIC PIPE
- ASPHALT
- EXIST. CONTOUR
- CONCRETE
- GRAVEL
- LAND LOT LINE
- STREAM OR POND
- G/H POWER
- FENCE
- RIGHT OF WAY
- UG GAS LINE
- UG POWER
- SEWER LINE
- WATER LINE
- G/H TELEPHONE
- STORM LINE
- PROP. CONTOUR
- PROP. INSET CONTOUR

DISCLOSURE & NOTICE

"Thou shalt not remove thy neighbor's landmark, which they of old time have set."
Deuteronomy 19:14 KJV

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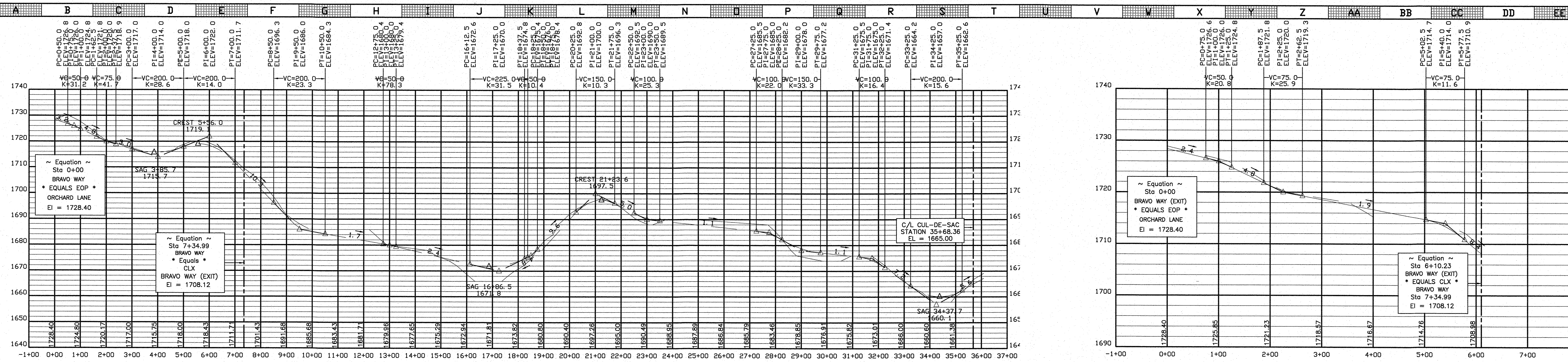
IN GOD WE TRUST

PREPARED BY
CHASTAIN & ASSOCIATES, P.C.
SURVEYING-PLANNING-CONSULTING

"Covering Dixie Like The Dew"
CHASTAIN-ASSOCIATES.COM
(706) 276-7528 (770) 889-1770
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288 N. Main St., Ellijay, GA 30540
GEORGIA CERTIFICATE OF AUTH. LSP000781
TENNESSEE PROFESSIONAL REG. NO. 1937
NORTH CAROLINA LAND SURVEYING FIRM C-3189
ALABAMA LAND SURVEYING FIRM CA-852
SOUTH CAROLINA SURVEYING FIRM COA No. 5205

100 0 200 400
GRAPHIC SCALE - 1" = 200'
SHEET 01 OF 14
FILE: 221J3APP



VERTICAL PROFILE - BRAZO WAY
HORIZONTAL SCALE - 1" = 200'
VERTICAL SCALE - 1" = 20'

VERTICAL PROFILE - BRAZO WAY (EXIT)
HORIZONTAL SCALE - 1" = 100'
VERTICAL SCALE - 1" = 10'

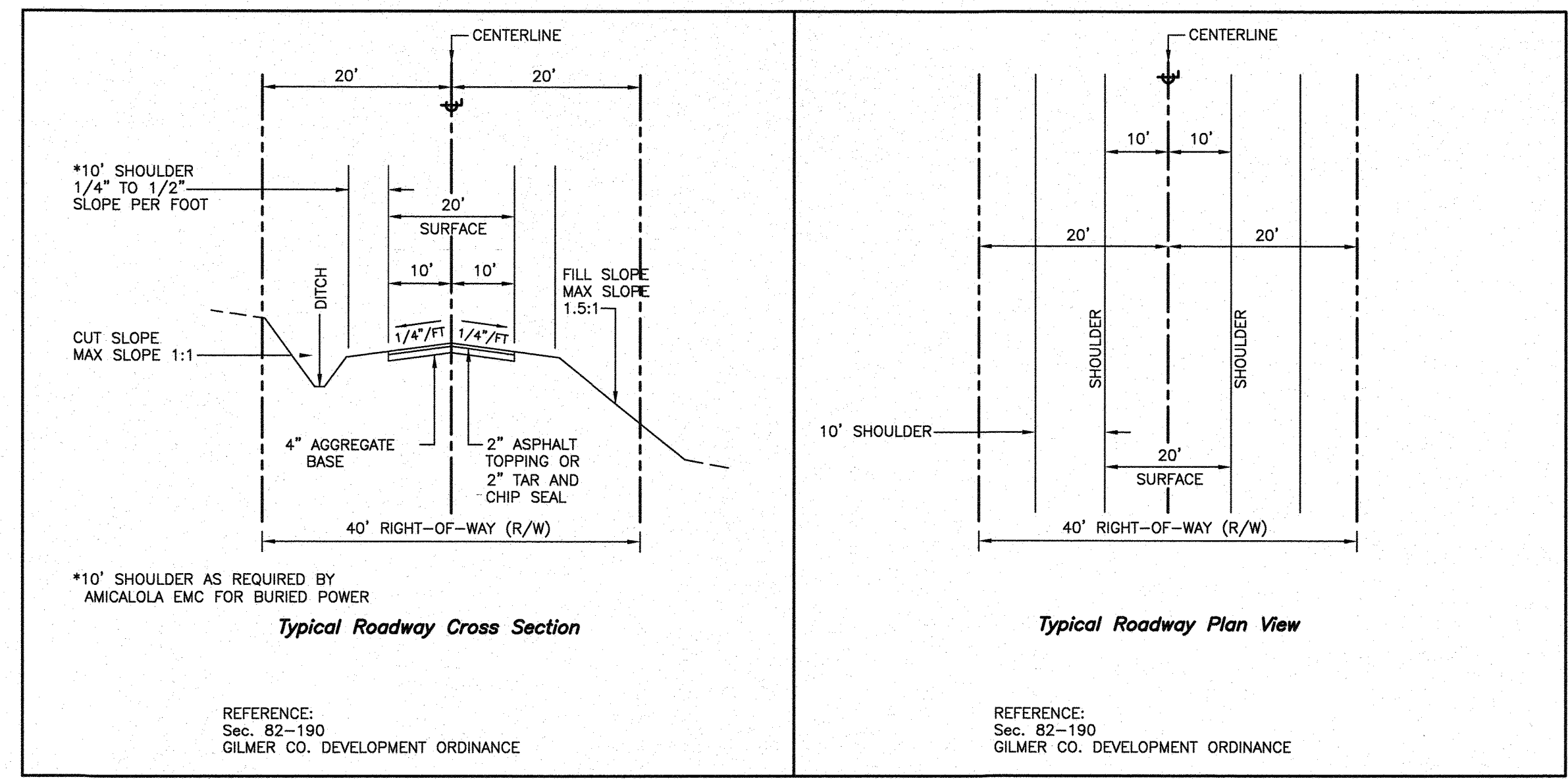
Centerline Report - Bravo Way

Station	Northing	Easting	Radius	Length
0+00.000	1669435.654	2216661.044		
0+57.621	1669493.530	2216691.970		
0+77.418	1669503.455	2216698.323	75.000'	
1+48.009	1669559.735	2216740.934		
2+45.215	1669650.279	2216771.344	150.000'	
3+60.772	1669765.836	2216771.344		
5+95.219	1669967.399	2216669.237	250.000'	
6+73.524	1670013.722	2216606.104		
9+38.961	1670250.573	2216563.152	175.000'	
10+02.625	1670303.861	2216597.988		
12+82.086	1670398.736	2216842.036	225.000'	
15+72.644	1670326.780	2217123.543		
18+00.879	1670382.325	2217334.943	225.000'	
20+17.950	1670532.518	2217491.665		
22+41.872	1670599.862	2217697.437	250.000'	
23+10.192	1670590.900	2217765.166		
24+57.349	1670521.998	2217891.453	200.000'	
25+67.659	1670437.874	2217962.807		
29+34.764	1670103.032	2217952.504	250.000'	
29+99.571	1670056.280	2217907.624		
30+61.182	1670007.052	2217870.837	250.000'	
31+16.134	1669959.323	2217843.603		
35+68.364	1669566.539	2217619.477		

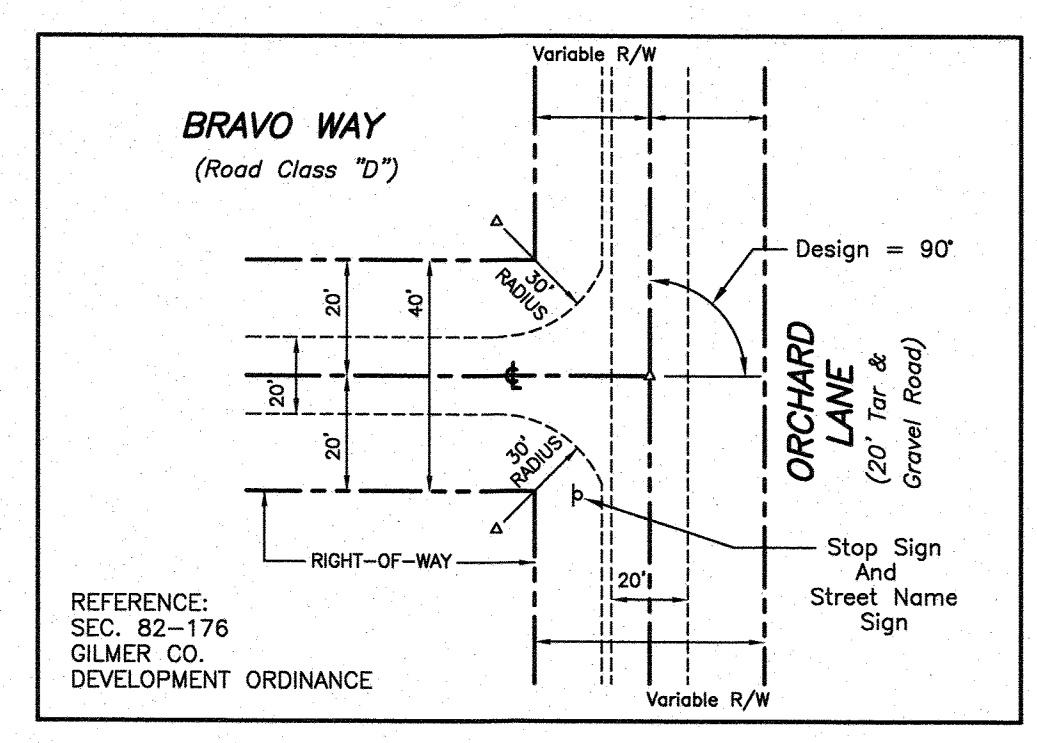
Centerline Report - Bravo Way (Exit)

Station	Northing	Easting	Radius	Length
0+00.000	1669477.453	2216571.963		
0+57.015	1669528.748	2216596.852		
0+72.617	1669543.390	2216602.159	75.000'	
1+04.191	1669574.031	2216609.778		
1+54.336	1669621.993	2216601.338	60.000'	
1+76.225	1669640.156	2216589.123		
1+89.735	1669651.676	2216582.065		
2+68.757	1669727.278	2216564.079	125.000'	
4+10.967	1669869.004	2216575.800		
4+26.112	1669883.946	2216578.185	100.000'	
4+93.646	1669949.640	2216593.842		
5+83.907	1670036.030	2216578.451	110.000'	
6+10.228	1670057.951	2216563.882		

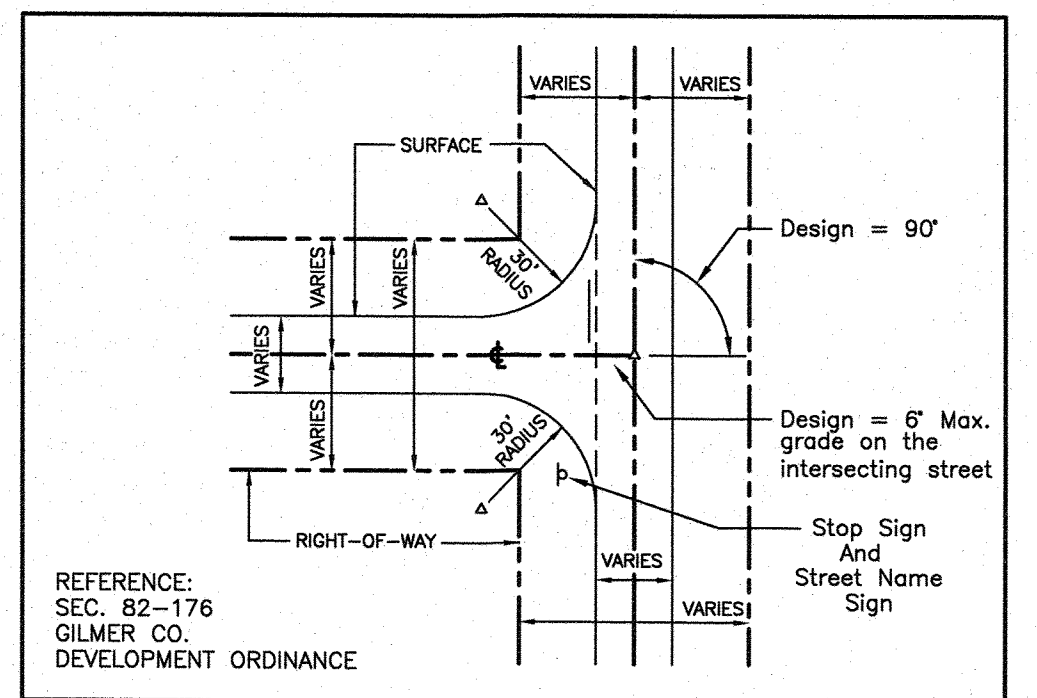
ROAD DETAIL - CLASS "D" (N.T.S.)



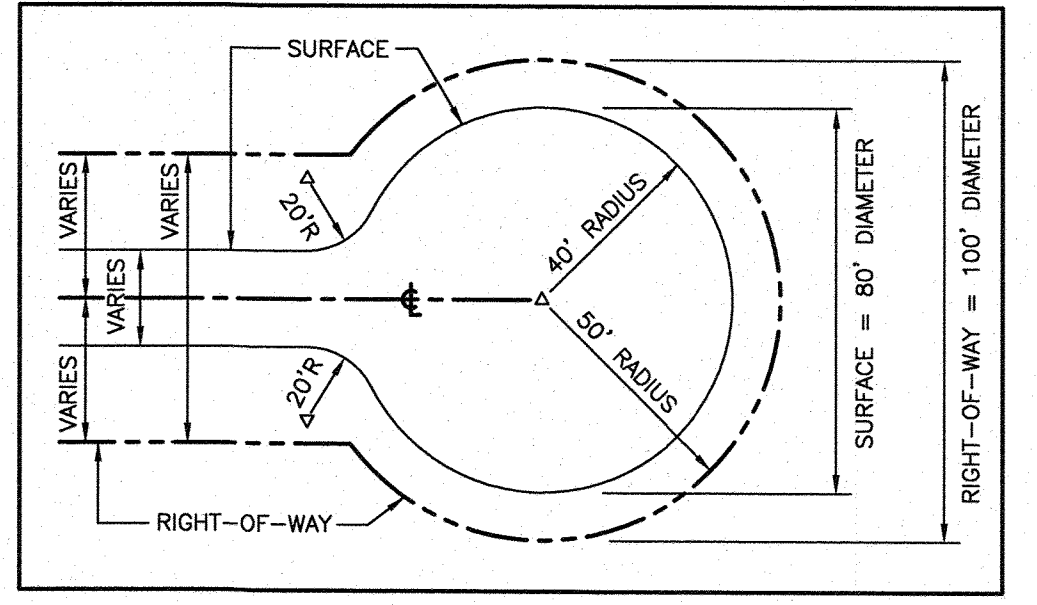
Entrance Detail - N.T.S.



Typical Intersection Detail - N.T.S.



Standard Cul-De-Sac - N.T.S.



CENTERLINE VERTICAL PROFILE
PREPARED FOR
Bravo Estates

LAND LOTS 307 & 308
11th DISTRICT, 2nd SECTION
AND
LAND LOT 289
12th DISTRICT, 2nd SECTION
GILMER COUNTY, GEORGIA
DATE: FEBRUARY 7, 2022

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GEORGIA
REGISTERED
No. 2718
MARK E. CHASTAIN
LAND SURVEYOR

3-16-2022
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NUMBER 17322

LEGEND

○ IRON PIN FOUND	□ FREE HYDRANT	□ POWER BOX
● IRON PIN SET	□ UTILITY POLE	□ UTILITY PRESTAB
△ NO MONUMENT	□ WATER METER	□ DRAIN INLET
■ ROCK	□ WATER VALVE	□ STORM MH
□ MONUMENT	□ GAS METER	□ SEWER MH
	□ GAS VALVE	□ LIGHT POLE

P.O.B. - POINT OF BEGINNING
P/L - PROPERTY LINE
C/L - CENTERLINE
W/F - NOW OR FORMERLY
DB/PS - DEED BOOK/PAGE
PB/PS - PLAT BOOK/PAGE
PP - UTILITY POLE
REP - REINFORCED CONCRETE PIPE
CMP - CORRUGATED METAL PIPE
CPP - CORRUGATED PLASTIC PIPE
ASPH - ASPHALT
CONC - CONCRETE
GRAV - GRAVEL

LAND LOT LINE
STREAM OR POND
O/H POWER
RIGHT OF WAY
UG GAS LINE
UG POWER
SEWER LINE
WATER LINE
O/H TELEPHONE
STORM LINE
R/R TRACKS
EXIST. CONTOUR
DIST. INDX CONTOUR
PROP. CONTOUR
PROP. INDX CONTOUR

MONUMENT DIMENSIONS ARE OUTSIDE/OVERALL DIMENSIONS.
ALL IPS ARE CAPPED 5/8" REBAR UNLESS OTHERWISE NOTED.
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Deuteronomy 19:14 KJV

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IN GOD WE TRUST

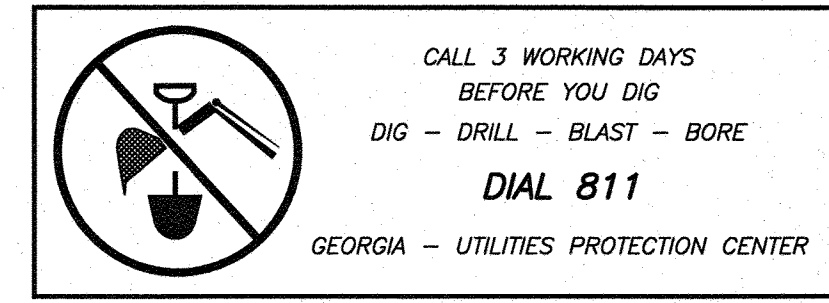
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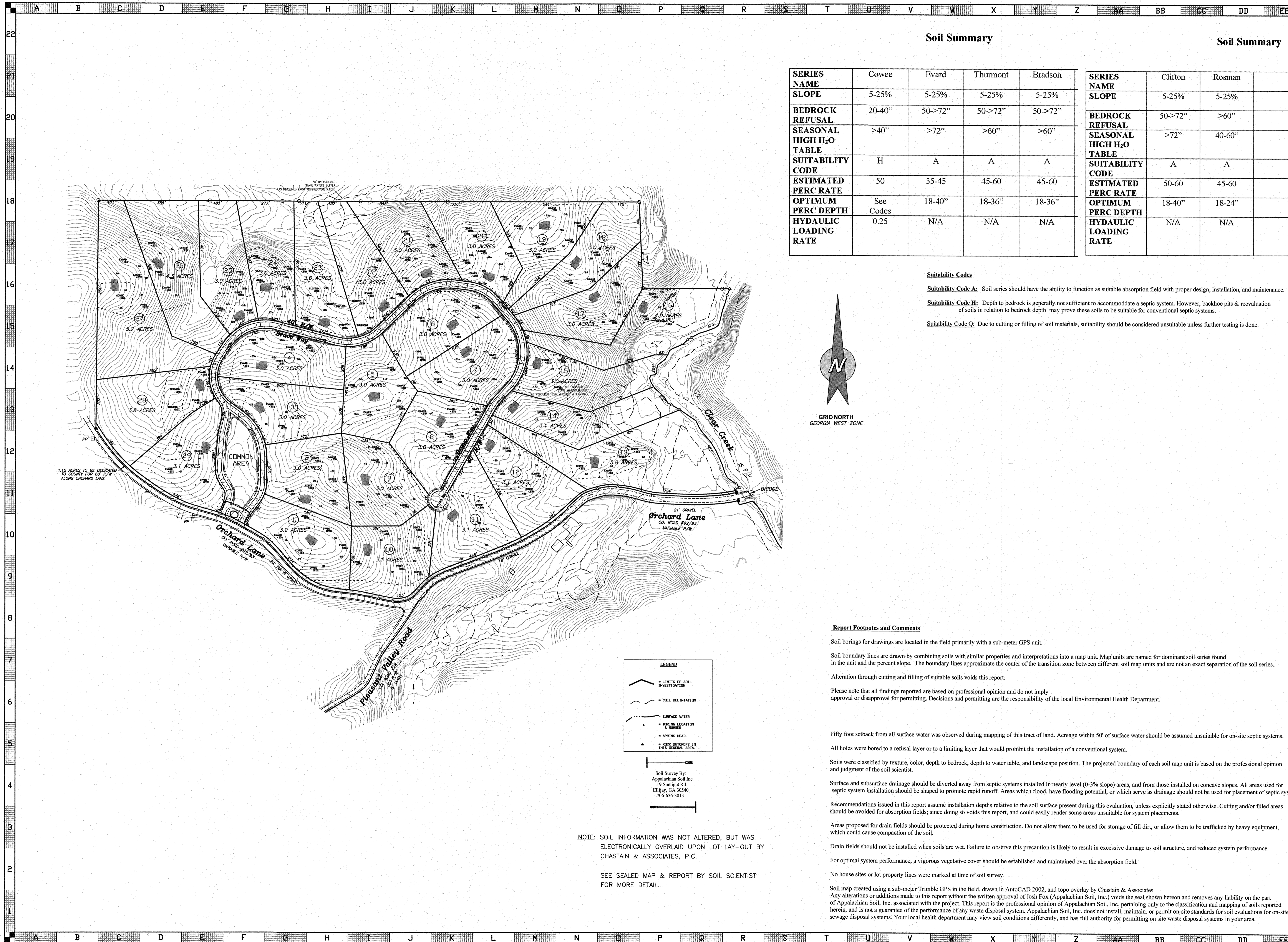
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AL GA SC
Since 1995

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SHEET 02 OF 14
FILE: 221434PP





Soil Summary

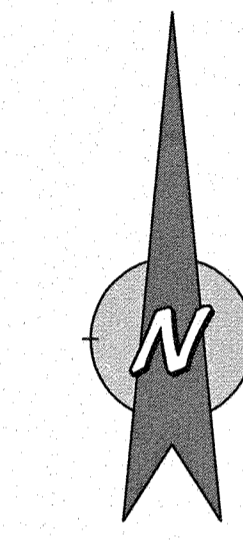
SERIES NAME	Cowee	Evard	Thurmont	Bradson
SLOPE	5-25%	5-25%	5-25%	5-25%
BEDROCK REFUSAL	20-40"	50->72"	50->72"	50->72"
SEASONAL HIGH H ₂ O TABLE	>40"	>72"	>60"	>60"
SUITABILITY CODE	H	A	A	A
ESTIMATED PERC RATE	50	35-45	45-60	45-60
OPTIMUM PERC DEPTH	See Codes	18-40"	18-36"	18-36"
HYAULIC LOADING RATE	0.25	N/A	N/A	N/A

Soil Summary

SERIES NAME	Clifton	Rosman
SLOPE	5-25%	5-25%
BEDROCK REFUSAL	50->72"	>60"
SEASONAL HIGH H ₂ O TABLE	>72"	40-60"
SUITABILITY CODE	A	A
ESTIMATED PERC RATE	50-60	45-60
OPTIMUM PERC DEPTH	18-40"	18-24"
HYAULIC LOADING RATE	N/A	N/A

Suitability Codes

- Suitability Code A:** Soil series should have the ability to function as suitable absorption field with proper design, installation, and maintenance.
- Suitability Code H:** Depth to bedrock is generally not sufficient to accommodate a septic system. However, backhoe pits & reevaluation of soils in relation to bedrock depth may prove these soils to be suitable for conventional septic systems.
- Suitability Code Q:** Due to cutting or filling of soil materials, suitability should be considered unsuitable unless further testing is done.



GRID NORTH
GEORGIA WEST ZONE

LEGEND

	LIMITS OF SOIL INVESTIGATION
	SOIL DELINEATION
	SURFACE WATER
	BORING LOCATION & NUMBER
	SPRING HEAD
	ROCK OUTCROPS IN THIS GENERAL AREA

Soil Survey By:
Appalachian Soil, Inc.
19 Sunlight Rd.
Elija, GA 30540
706-636-3813

NOTE: SOIL INFORMATION WAS NOT ALTERED, BUT WAS ELECTRONICALLY OVERLAID UPON LOT LAY-OUT BY CHASTAIN & ASSOCIATES, P.C.

SEE SEALED MAP & REPORT BY SOIL SCIENTIST FOR MORE DETAIL.

Report Footnotes and Comments

- Soil borings for drawings are located in the field primarily with a sub-meter GPS unit.
- Soil boundary lines are drawn by combining soils with similar properties and interpretations into a map unit. Map units are named for dominant soil series found in the unit and the percent slope. The boundary lines approximate the center of the transition zone between different soil map units and are not an exact separation of the soil series.
- Alteration through cutting and filling of suitable soils voids this report.
- Please note that all findings reported are based on professional opinion and do not imply approval or disapproval for permitting. Decisions and permitting are the responsibility of the local Environmental Health Department.
- Fifty foot setback from all surface water was observed during mapping of this tract of land. Acreage within 50' of surface water should be assumed unsuitable for on-site septic systems.
- All holes were bored to a refusal layer or to a limiting layer that would prohibit the installation of a conventional system.
- Soils were classified by texture, color, depth to bedrock, depth to water table, and landscape position. The projected boundary of each soil map unit is based on the professional opinion and judgment of the soil scientist.
- Surface and subsurface drainage should be diverted away from septic systems installed in nearly level (0-3% slope) areas, and from those installed on concave slopes. All areas used for septic system installation should be shaped to promote rapid runoff. Areas which flood, have flooding potential, or which serve as drainage should not be used for placement of septic systems.
- Recommendations issued in this report assume installation depths relative to the soil surface present during this evaluation, unless explicitly stated otherwise. Cutting and/or filled areas should be avoided for absorption fields; since doing so voids this report, and could easily render some areas unsuitable for system placements.
- Areas proposed for drain fields should be protected during home construction. Do not allow them to be used for storage of fill dirt, or allow them to be trafficked by heavy equipment, which could cause compaction of the soil.
- Drain fields should not be installed when soils are wet. Failure to observe this precaution is likely to result in excessive damage to soil structure, and reduced system performance.
- For optimal system performance, a vigorous vegetative cover should be established and maintained over the absorption field.
- No house sites or lot property lines were marked at time of soil survey.
- Soil map created using a sub-meter Trimble GPS in the field, drawn in AutoCAD 2002, and topo overlay by Chastain & Associates. Any alterations or additions made to this report without the written approval of Josh Fox (Appalachian Soil, Inc.) voids the seal shown hereon and removes any liability on the part of Appalachian Soil, Inc. pertaining only to the classification and mapping of soils reported herein, and is not a guarantee of the performance of any waste disposal system. Appalachian Soil, Inc. does not install, maintain, or permit on-site standards for soil evaluations for on-site sewage disposal systems. Your local health department may view soil conditions differently, and has full authority for permitting on site waste disposal systems in your area.

SOILS PREPARED FOR
Bravo Estates

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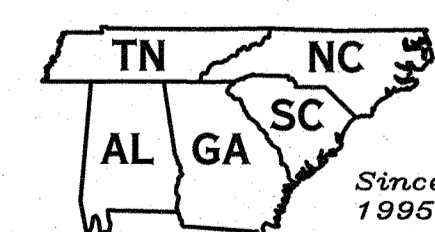
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	ROCK		WATER METER		DRAIN INLET
	MONUMENT		WATER VALVE		STORM MH
	GAS METER		SEWER MH		GAS VALVE
	GAS VALVE		LIGHT POLE		LAND LOT LINE
	POINT OF BEGINNING		STREAM OR POND		FENCE
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	PLAT BOOK/PAGE		EXIST. CONTOUR		EXIST. INDEX CONTOUR
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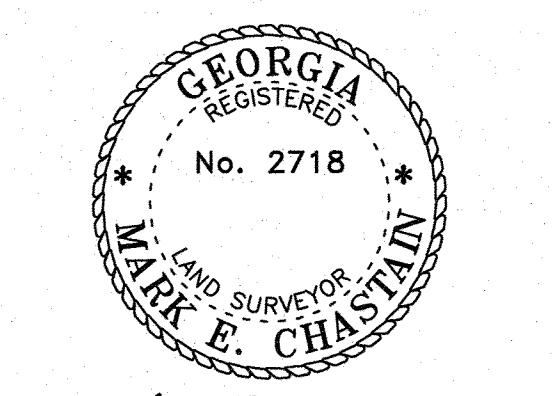
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100 0 200 400
GRAPHIC SCALE - 1" = 200'
SHEET 03 OF 14
FILE: 221J34PP

Bravo Estates

LAND LOTS 307 & 308 11th DISTRICT, 2nd SECTION AND LAND LOT 289 12th DISTRICT, 2nd SECTION GILMER COUNTY, GEORGIA DATE: FEBRUARY 7, 2022

REVISIONS: DATE COMMENT



3-16-2022

LEVEL II CERTIFICATION NUMBER 17322

- IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED... PER THE REQUIREMENTS OF THE STATE OF GEORGIA... THESE PLANS HAVE BEEN SIGNED AND SEALED FOR REVIEW ONLY... THIS DRAWING SHEET IS PART OF A COMPLETE SET OF SITE DESIGN DRAWINGS... AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL... NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION... NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM THE POINT OF WRESTED VEGETATION... ALL UNDERGROUND UTILITY STUB OUTS AND SERVICE LINES TO BE A MINIMUM DEPTH OF 24 INCHES WHEN LOCATED WITHIN 10 FEET OF PROPERTY CORNERS... THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION... WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT... THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES... EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE... ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

HYDROLOGIC ASSESSMENT: DUE TO THE SIZE AND NATURE OF THE TRACTS, IT IS NOT POSSIBLE TO PRECISELY ESTIMATE THE DISTURBED AREA OR RUN-OFF INCREASE FROM THE HOME SITES THEMSELVES. HOWEVER, THE 11.1 ACRES OF ANTICIPATED TOTAL DEVELOPMENT WILL INCREASE THE RUNOFF COEFFICIENT FROM APPROXIMATELY 0.4 TO APPROXIMATELY 0.6 (WITHIN THE 11.1 DISTURBED ACRES, THE REMAINING ACREAGE BEING UNDISTURBED AND UNAFFECTED). BASED ON A 25-YEAR, 5-MINUTE STORM INTENSITY OF 9.1 INCHES PER HOUR, THE RATIONAL METHOD COMPUTES AN INCREASE OF 20.2 CUBIC FEET PER SECOND ACROSS THIS SITE. THIS PROJECT DISCHARGES DIRECTLY INTO ESTABLISHED CHANNELS AND FLOODPLAIN AS SHOWN. THE PROJECT AREA CONSISTS OF A MINOR AMOUNT OF THE TOTAL WATERSHED OF THE STREAMS AND WILL DISCHARGE DURING A STORM EVENT PRIOR TO THE PEAK. THEREFORE, STORMWATER RETENTION MEASURES ARE NOT SHOWN HEREON. THE DEVELOPER ASSUMES RESPONSIBILITY FOR ALL EFFECTS OF THE INCREASE. GILMER COUNTY DOES NOT HAVE AN ORDINANCE THAT REQUIRES STORMWATER RETENTION OR DETENTION PRACTICES.

NARRATIVES, NOTES & OTHER INFORMATION DESCRIPTION STATEMENT: THE PURPOSE OF THIS APPLICATION IS FOR THE APPROVAL OF A LAND DISTURBANCE PERMIT TO CONSTRUCT A RESIDENTIAL SUBDIVISION (BRAVO ACRES) ON A MOSTLY UN-DEVELOPED 102.56 ACRE TRACT OF LAND. THIS PHASE LOCATED ON ORCHARD LANE IN LAND LOTS 307 & 308 OF THE 11TH DISTRICT 2ND SECTION AND LAND LOT 289 OF THE 12TH DISTRICT 2ND SECTION OF GILMER COUNTY, GEORGIA. PROPERTY IS PARTIALLY DEVELOPED WITH AN EXISTING ROAD SYSTEM, WITH MIXED HARDWOODS. SITE DATA: TOTAL PROJECT ACRES = 102.56 TOTAL DISTURBED ACRES = 11.1 ROAD IMPROVEMENT & UTILITIES INSTALLATION ACRE(S) = 5.4 HOME CONSTRUCTION ACRES = 5.7 RECEIVING WATERS: CLEAR CREEK THERE ARE STATE WATERS LOCATED ON OR WITHIN 200' OF THE PROPOSED LAND DISTURBANCE. ALL ON-SITE WETLANDS AND ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN DELINEATED. * SEE NOTE BELOW. THERE ARE NO PROPOSED BUFFER ENCROACHMENTS, NO BUFFER VARIANCE IS REQUIRED. THE CONSTRUCTION ACTIVITY FOR THIS PROJECT 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 BIOTA IMPAIRED STREAM SEGMENT. THERE IS NO TMDL IMPLEMENTATION PLAN APPLICABLE TO THIS SITE.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST COMMON DEVELOPMENT CONSTRUCTION PROJECTS (Primary and Tertiary Permits)

Table with 4 columns: Item, Yes/No, Date, and Remarks. Lists 37 items related to erosion control, sedimentation, and pollution control measures.

Table with 3 columns: Item, Yes/No, and Remarks. Lists 4 items related to graphic scale and north arrow.

Table with 3 columns: Item, Yes/No, and Remarks. Lists 4 items related to existing and proposed contour lines.

Table with 3 columns: Item, Yes/No, and Remarks. Lists 4 items related to alternative BMPs and erosion control measures.

Table with 3 columns: Item, Yes/No, and Remarks. Lists 4 items related to delineation of the applicable 25-foot or 50-foot undisturbed buffers.

Table with 3 columns: Item, Yes/No, and Remarks. Lists 4 items related to delineation and mapping of contributing drainage basins.

Table with 3 columns: Item, Yes/No, and Remarks. Lists 4 items related to storm drain pipe and vault velocities.

Table with 3 columns: Item, Yes/No, and Remarks. Lists 4 items related to the limits of disturbance for each phase of construction.

Table with 3 columns: Item, Yes/No, and Remarks. Lists 4 items related to the location of Best Management Practices.

Table with 3 columns: Item, Yes/No, and Remarks. Lists 4 items related to detailed drawings for all structural practices.

Table with 3 columns: Item, Yes/No, and Remarks. Lists 4 items related to the provision of vegetative plan, seeding, mulch, and other practices.

- 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities." 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented as required by the Georgia Department of Transportation." 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." 22 Indication that the applicable portion of the primary permittee ES&PC Plan is to be provided to each secondary permittee prior to the necessary construction activity and that each secondary permittee shall sign the Plan or portion of the Plan applicable to their site. List the names and addresses of all secondary permittees. 23 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a State Impaired Stream Segment, must comply with Part C, 6 of the permit. Include the completed Appendix 1 listing all BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. 24 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 23 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. 25 BMPs for concrete walkways of roads, concrete stair steps, pavers and the rear of the vehicles. Walkout of the drum at the construction site is prohibited. 26 Provide BMPs for the remediation of all petroleum spills and leaks. 27 Description of practices to provide cover for building materials and building products on site. 28 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. 29 Describe the practices that will be used to prevent the potential for storm water discharge. 30 Description and chart of the location of the intended sediment control structures which shall be installed for the major portion of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization). 31 Provide complete requirements of inspectors and record keeping by the primary permittee or tertiary permittee. 32 Provide complete requirements of Sampling Frequency and Reporting of sampling results. 33 Provide complete details for Retention of Records as per Part IV of the permit. 34 Description of analytical methods to be used to collect and analyze the samples from each location. 35 Appendix B relative for NTU values at all rainfall sampling points where applicable. 36 Delinate all sampling locations if applicable, perimeter and sediment stream and other water bodies into which storm water is discharged. 37 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 final perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the permittee may combine all of the BMPs into a single phase.

APPENDIX 1 THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR OF THE FOLLOWING BMP'S FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT AND FOR SITES WHICH ARE APPROVED FOR WASTEWATER DISCHARGE TO A POINT OF DISCHARGE AT ANOTHER TIME.

- 1 During construction activities, locate the width of the 25-foot undisturbed vegetative buffer along all State waters requiring a buffer and the 50-foot undisturbed vegetative buffer along all State waters classified as " Trout Waters" except when approval is granted by the Director for alternate buffer requirements in accordance with the provisions of O.C.G.A. 12-7-5, or where a roadway drainage structure must be constructed. The buffer for warm water streams is 25 feet, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action. Local code may require larger buffers. 2 Use mulch or equivalent cover material to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part B.3.6 of the current NPDES Permit. 3 Conduct erosion control site inspections (i.e., completed and signed) and post-construction site sampling to a depth of six (6) inches to document improvements of soil carbon after final stabilization of the construction site. 4 Limit the amount of disturbance area at any one time to no greater than 25 acres or 50% of the total project area, whichever is less. All calculations must be included in the Plan. 5 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 6 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 7 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 8 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 9 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 10 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 11 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 12 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 13 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 14 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 15 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 16 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 17 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 18 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 19 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 20 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 21 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 22 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 23 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 24 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 25 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 26 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 27 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 28 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 29 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 30 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 31 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 32 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 33 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 34 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 35 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 36 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow). 37 Use "Top" or "Increase" available on the EPC website to model and manage construction sites with water control (including sheet flow).

ACTIVITY SCHEDULE table with columns for months from start of construction (1-12) and rows for various construction activities like Sediment Control, Clearing, Earthwork, etc.

APPENDIX 1 - ITEM I NO MORE THAN 25 ACRES OR 50% OF TOTAL PLANNED DISTURBANCE TO BE ALLOWED AT ONE TIME FOR PROJECT SITE. 50% OF 11.1 ACRES TOTAL DISTURBANCE = 5.6 ACRES MAX. INITIAL ROAD IMPROVEMENT AND UTILITY INSTALLATION TO DISTURB LESS THAN 5.4 ACRES. ONCE ROADS/UTILITIES ARE IN PLACE AND THE SITE STABILIZED, HOME SITE DEVELOPMENT WILL BEGIN WITH NO MORE THAN 5.6 ACRES ALLOWED TO BE DISTURBED AT ONE TIME. THIS WOULD ALLOW FOR APPROX. 29 HOME SITES (EST. 8500 SF. PER LOT) TO BE UNDER CONSTRUCTION AND STILL REMAIN BELOW THE ALLOWED 50%.

APPENDIX 1 - ITEM H TOTAL SITE AREA: 102.56 IMPERVIOUS AREA ROADS: 1.9 ACRES IMPERVIOUS AREA HOME SITES (EST. 3000 SQ. FT PER LOT) = 2.0 ACRES STATE-MANDATED BUFFER(S): 4.6 ACRES SITE AREA EXCLUDING BUFFER AREAS: 3.9 ACRES / 98.0 = 3.9% PROPOSED IMPERVIOUS AREA

APPENDIX 1 - ITEM U INSPECTIONS ARE TO BE CONDUCTED DURING THE INTERMEDIATE GRADING AND DRAINAGE BMP PHASE AND DURING THE FINAL BMP PHASE BY THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN.

THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN TO CONDUCT INSPECTIONS DURING THE INTERMEDIATE GRADING AND DRAINAGE BMP PHASE AND DURING FINAL BMP PHASE.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

PRIMARY PERMITTEE OR REPRESENTATIVE CERTIFICATION NUMBER / EXPIRATION DATE

EROSION CONTROL CERTIFICATION:

1. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS. THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100003.

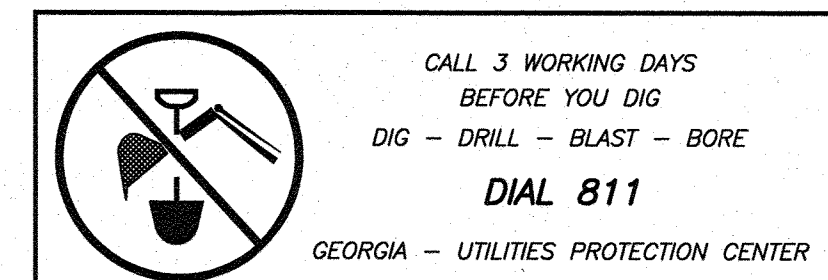
2. I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

DESIGN PROFESSIONAL MARK E. CHASTAIN CERTIFICATION NUMBER 00000017322 EXPIRES 09/22/2024

Secondary Permittees section with fields for Name, Phone, Fax, Signature, and OSWCC Level 1A Certification No.

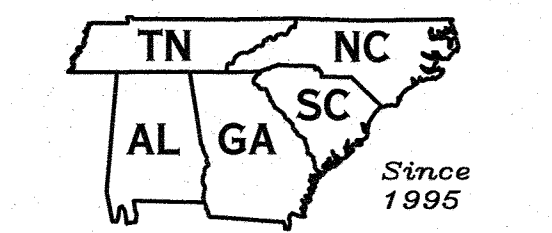
ITEM 23 (APPENDIX 1) AS REQUIRED FOR TRIBUTARY OF IMPAIRED STREAM CLEAR CREEK (GAR031501020104)

APPENDIX 1 - ITEM H SEE NOTE THIS SHEET ITEM I SEE NOTE THIS SHEET ITEM P - SEE NOTE SH. 12 ITEM U SEE NOTE THIS SHEET



CALL 3 WORKING DAYS BEFORE YOU DIG DIG - DRILL - BLAST - BORE DIAL 811 GEORGIA - UTILITIES PROTECTION CENTER

PREPARED BY CHASTAIN & ASSOCIATES, P.C. SURVEYING-PLANNING-CONSULTING

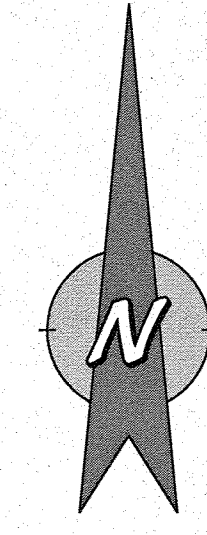


"Covering Dixie Like The Dew" CHASTAINASSOCIATES.COM (706)276-7528 (770)889-1770 email: INFO@CHASTAINASSOCIATES.COM 288 N. Main St., Ellijay, GA 30540 GEORGIA CERTIFICATE OF AUTH. LSF000781 TENNESSEE PROFESSIONAL REG. NO. 1937 NORTH CAROLINA LAND SURVEYING FIRM C-3198 ALABAMA LAND SURVEYING FIRM CA-852-LS SOUTH CAROLINA SURVEYING FIRM COA NO. 5205

INITIAL PHASE EROSION CONTROL NOTES:

- PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
- THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
 1. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3 1/2" IN DIAMETER AND COVERED ON A GEOTEXTILE UNDERLAYER. THE GEOTEXTILE UNDERLAYER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS.
 2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
 3. TYPE "S41-NS OR S1" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE E-20.2. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
 4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.
 5. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN AND AS NEEDED.
- AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL.
- NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORSEEN CONDITIONS EXIST IN THE FIELD THAT WARRANTS ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.
- AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUN OFF. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.
- NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR ENGINEER OF RECORD.
- ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
- ALL SILT FENCE MUST MEET THE REQUIREMENTS OF THE STATE OF GEORGIA, CURRENT STANDARD SPECIFICATIONS.
- ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163 AND 184 OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS, FOR ROADS AND BRIDGES.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE DESIGN PROFESSIONAL.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
- THESE PLANS HAVE BEEN SIGNED AND SEALED FOR REVIEW ONLY. THEY CANNOT BE USED FOR CONSTRUCTION UNTIL THEY HAVE BEEN APPROVED, STAMPED AND SIGNED BY THE APPROPRIATE AUTHORITIES AND ALL NECESSARY PERMITS HAVE BEEN OBTAINED BY THE CLIENT.
- THIS DRAWING SHEET IS PART OF A COMPLETE SET OF SITE DESIGN DRAWINGS. IT SHOULD NOT BE SEPARATED FROM THE SET. INFORMATION PERTINENT TO THIS SHEET MAY BE FOUND ON OTHER SHEETS IN THE SET. THE OWNER IS RESPONSIBLE FOR ENSURING THAT THE CONTRACTOR HAS ALL OF THE CONSTRUCTION DOCUMENTS NEEDED TO PREPARE THE SITE.
- IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY, AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS OR RESOLVED.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

FOR INITIAL PHASE - ONLY DISTURB WHAT IS REQUIRED TO INSTALL PERIMETER CONTROLS AND SEDIMENT STORAGE

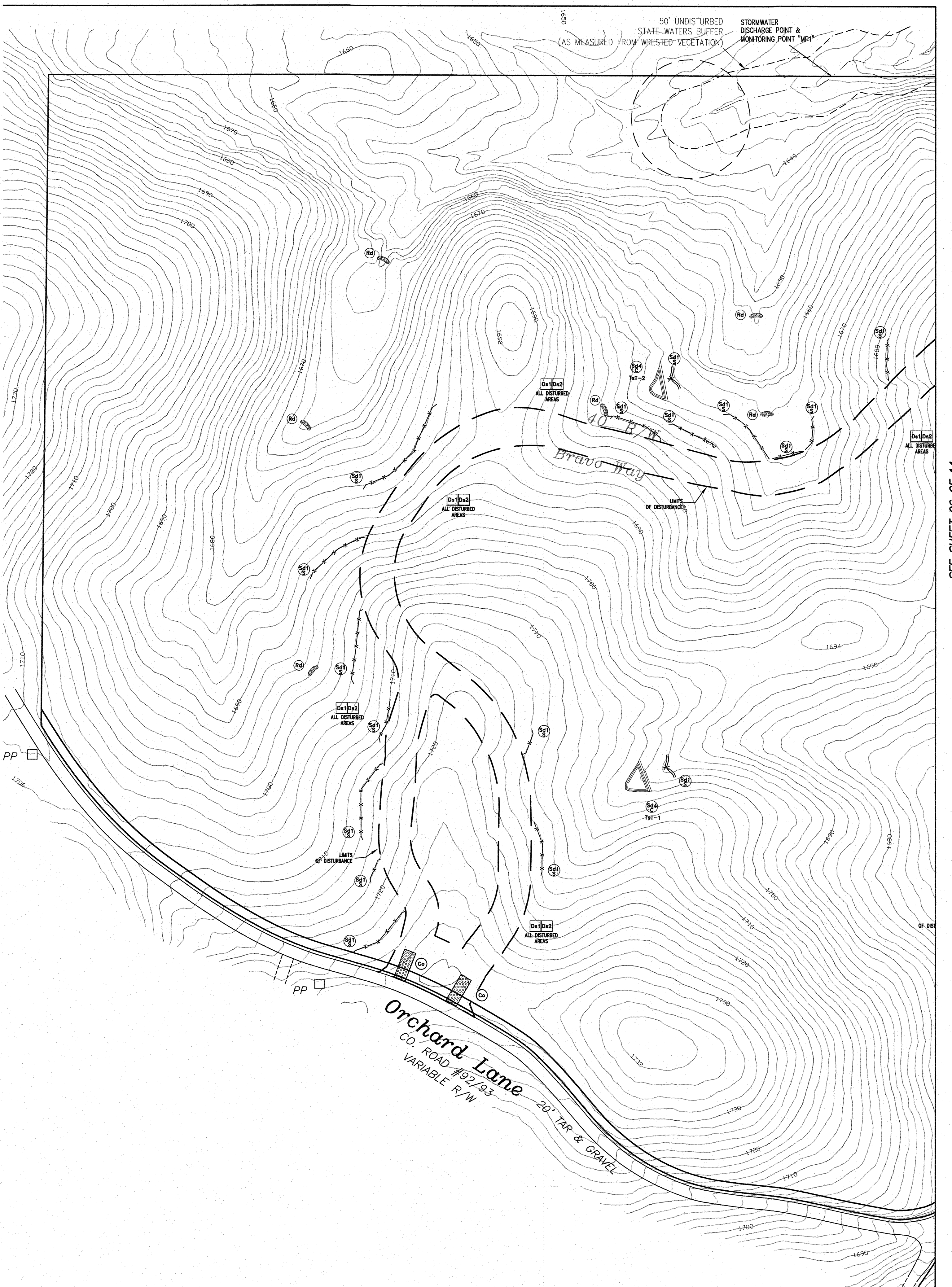


VEGETATIVE MEASURES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DEFURROWED AREA VEGETATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seeding may not take a suitable growing season to produce an erosion-reducing cover.
Ds2	DEFURROWED AREA VEGETATION (WITH MULCHING AND SEEDING)			Establishing temporary protective cover with fast growing species on disturbed areas.
Ds3	DEFURROWED AREA VEGETATION (PERMANENT VEGETATION)			Establishing permanent vegetation cover such as trees, shrubs, vines, grasses, etc. or legumes on disturbed areas.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and stabilize temporary or permanent vegetation or slope drains, shore lines or channels.

BEST MANAGEMENT PRACTICES

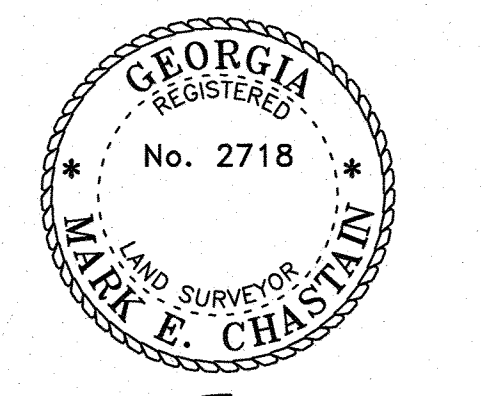
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHEQUERON			A small temporary barrier or dam constructed across a watercourse, ditch or area of concentrated flow.
Cc	CONSTRUCTION EXIT			A crushed stone pad located at the end of a driveway or driveway apron to prevent mud from being tracked onto public streets.
Di	DIVERSION			An earth channel or dike located down-drain to divert or bypass runoff from a disturbed area to a temporary or permanent structure.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainages.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be made of logs, brush, hay, straw, or other material. The barrier is usually temporary and permeable.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that stores a specified amount of sediment and allows sediment from upland sites cleared and/or graded during construction.
St	STORM DRAIN OUTLET PROTECTION			A device or structure placed at the outlet of a storm drain system to prevent sediment from entering the storm drain.
Su	SURFACE ROCKING			A rough wall surface with horizontal grooves on a contour or slope will in a wetland condition after grading.
Ch	CHANNEL STABILIZATION			Rock armor lining, riprap, or other devices to resist displacement when the channel is flowing at the banked discharge or 25-yr frequency discharge, whichever is the greater. Rock armor lining should be used when the channel velocity is between 3 and 10 ft/sec.
Rt	RETROFITTING			A device or structure placed in front of a permanent structure to reduce flood velocities to serve as a temporary sediment filter.



Bravo Estates

LAND LOTS 307 & 308
11th DISTRICT, 2nd SECTION
AND
LAND LOT 289
12th DISTRICT, 2nd SECTION
GILMER COUNTY, GEORGIA
DATE: FEBRUARY 7, 2022

REVISIONS:
DATE COMMENT



3-16-2022

LEVEL II CERTIFICATION
NUMBER 17322

SEE SHEET 06 OF 14

LEGEND

- IRON PIN FOUND
- IRON PIN SET
- △ NO MONUMENT
- ⊠ MONUMENT
- ⊞ FIRE HYDRANT
- ⊞ UTILITY POLE
- ⊞ WATER METER
- ⊞ WATER VALVE
- ⊞ GAS METER
- ⊞ GAS VALVE
- ⊞ LIGHT POLE
- ⊞ POWER BOX
- ⊞ UTILITY PRESTAL
- ⊞ DRAIN INLET
- ⊞ STORM W/
- ⊞ SEWER MH
- ⊞ LAND LOT LINE
- ⊞ STREAM OR FORD
- ⊞ D/H POWER
- ⊞ FENCE
- ⊞ RIGHT OF WAY
- ⊞ UG GAS LINE
- ⊞ UG POWER
- ⊞ SEWER LINE
- ⊞ WATER LINE
- ⊞ D/H TELEPHONE
- ⊞ STORM LINE
- ⊞ PROP. INDEX CONTOUR
- ⊞ EXIST. CONTOUR
- ⊞ DIST. INDEX CONTOUR
- ⊞ PROP. CONTOUR
- ⊞ PROP. INDEX CONTOUR

MONUMENT DIMENSIONS ARE OUTSIDE/OVERALL DIMENSIONS. ALL IPS ARE CAPPED 5/8" REBAR UNLESS OTHERWISE NOTED.

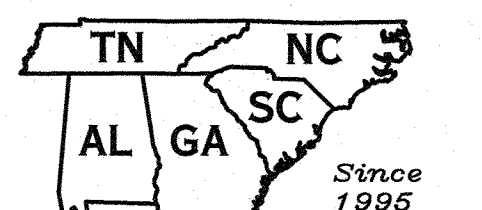
"Thou shalt not remove thy neighbor's landmark, which they of old time have set." Deuteronomy 19:14 KJV

DISCLOSURE & NOTICE

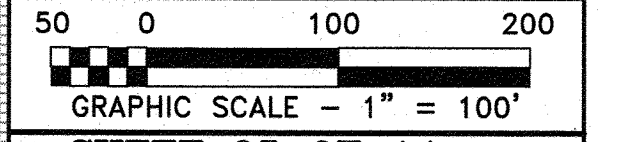
This drawing and any findings does not constitute a title or legal opinion by Chastain & Associates, P.C. Any professional certification is a statement based on facts and knowledge known to the registrant and is not a guarantee or warranty, either expressed or implied. Other documents or conditions may exist that would affect this property. As a unique pictorial and graphic professional work, this survey is subject to the Copyright laws of the United States. The latest date of field survey work is the date applicable to provisions of Statutes of Limitation. No certification or liability is extended to any party not named hereon. Subsurface matters not certified unless excavated.

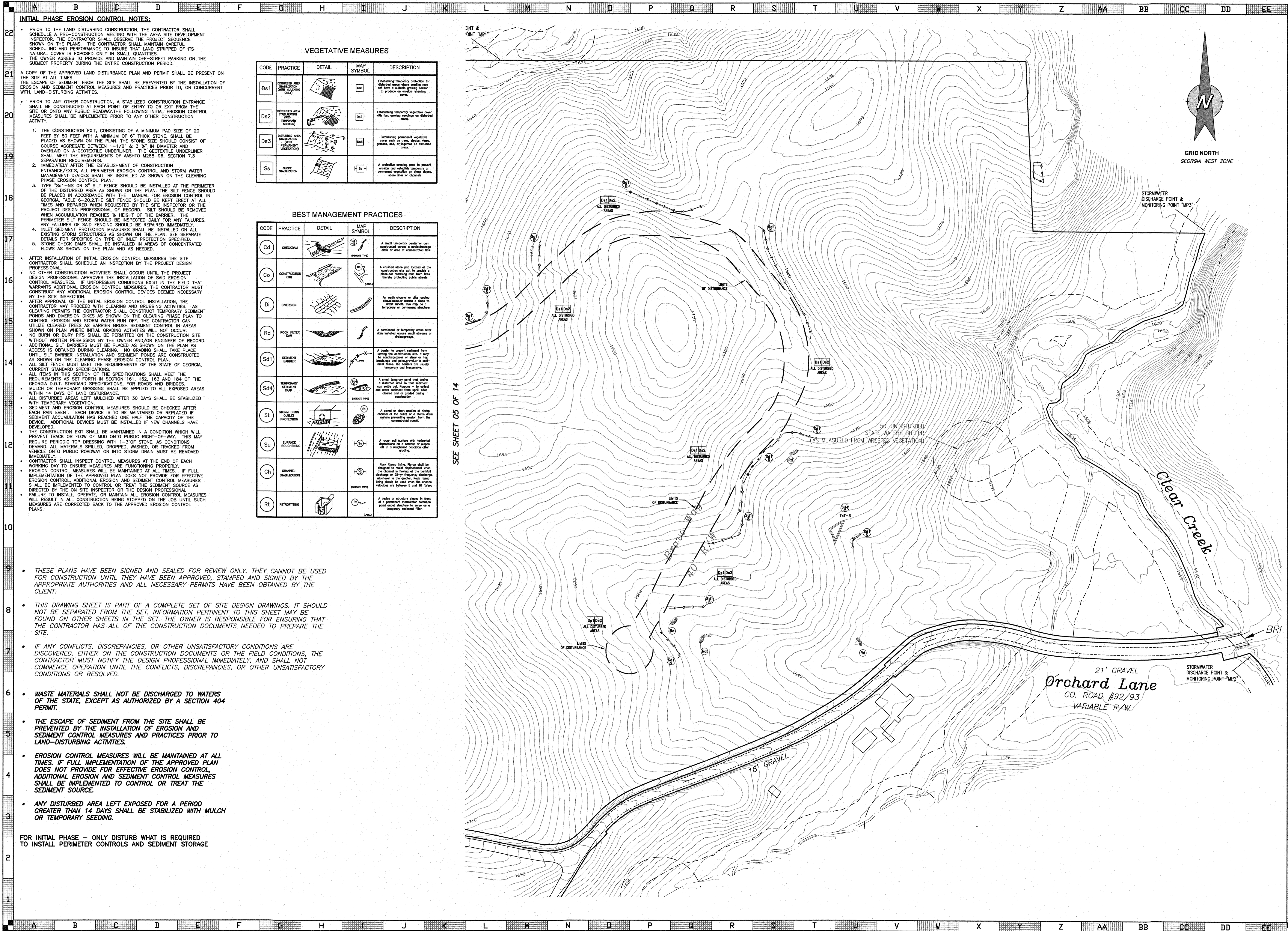
IN GOD WE TRUST

PREPARED BY
CHASTAIN & ASSOCIATES, P.C.
SURVEYING~PLANNING~CONSULTING



"Covering Dixie Like The Dew"
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email: INFO@CHASTAINASSOCIATES.COM
288 N. Main St., Ellijay, GA 30540
GEORGIA CERTIFICATE OF AUTH. LSP000781
TENNESSEE PROFESSIONAL REG. NO. 1937
NORTH CAROLINA LAND SURVEYING FIRM C-3198
ALABAMA LAND SURVEYING FIRM CA-852-S
SOUTH CAROLINA SURVEYING FIRM COA No. 5205





INITIAL PHASE EROSION CONTROL NOTES:

- PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL CONDUCT CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
- THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

1. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 4" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3/4" IN DIAMETER AND OVERLAP ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF ASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS.
2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
3. TYPE "S41-NS OR S" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE E-20.2. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.
5. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN AND AS NEEDED.

- AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL.
- NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANTS ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.
- AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT POND AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUN OFF. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR ENGINEER OF RECORD.
- ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT POND ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
- ALL SILT FENCE MUST MEET THE REQUIREMENTS OF THE STATE OF GEORGIA, CURRENT STANDARD SPECIFICATIONS.
- ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163 AND 184 OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS, FOR ROADS AND BRIDGES.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE DESIGN PROFESSIONAL.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

- THESE PLANS HAVE BEEN SIGNED AND SEALED FOR REVIEW ONLY. THEY CANNOT BE USED FOR CONSTRUCTION UNTIL THEY HAVE BEEN APPROVED, STAMPED AND SIGNED BY THE APPROPRIATE AUTHORITIES AND ALL NECESSARY PERMITS HAVE BEEN OBTAINED BY THE CLIENT.

THIS DRAWING SHEET IS PART OF A COMPLETE SET OF SITE DESIGN DRAWINGS. IT SHOULD NOT BE SEPARATED FROM THE SET. INFORMATION PERTINENT TO THIS SHEET MAY BE FOUND ON OTHER SHEETS IN THE SET. THE OWNER IS RESPONSIBLE FOR ENSURING THAT THE CONTRACTOR HAS ALL OF THE CONSTRUCTION DOCUMENTS NEEDED TO PREPARE THE SITE.

- IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY, AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS OR RESOLVED.

- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

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

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

- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

- FOR INITIAL PHASE - ONLY DISTURB WHAT IS REQUIRED TO INSTALL PERIMETER CONTROLS AND SEDIMENT STORAGE

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VEGETATIVE MEASURES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Dd1	DEVELOPED AREA STABILIZATION (PERMANENT VEGETATION ONLY)		Dd1	Establishing permanent vegetation for disturbed areas where seeding may not have a suitable growing season to produce an erosion retaining cover.
Dd2	DEVELOPED AREA STABILIZATION (TEMPORARY VEGETATION)		Dd2	Establishing temporary vegetative cover with fast growing seedlings on disturbed areas.
Dd3	DEVELOPED AREA STABILIZATION (PERMANENT VEGETATION)		Dd3	Establishing permanent vegetative cover such as trees, shrubs, vines, grasses, sod, or spruce on disturbed areas.
Ss	SLIP STABILIZATION		Ss	A protective covering, used to prevent erosion on steep slopes. It consists of permanent vegetation on steep slopes, stone or straw.

BEST MANAGEMENT PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM		Cd	A small temporary barrier or dam constructed across a watercourse, ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT		Co	A crushed stone pad located at the construction site exit to provide a filter for eroding mud from the temporary protecting public streets.
Di	DIVERSION		Di	An earth channel or dike located downstream from a site to divert runoff. This may be a temporary or permanent structure.
Rd	ROCK FILTER DIRT		Rd	A permanent or temporary stone filter that retained coarse sand silt and silt.
Sd1	SEDIMENT BARRIER		Sd1	A barrier to prevent sediment from leaving the construction site. It may be a sandbagged or straw or hay, straw and straw bales, or a sediment fence. The barriers are usually temporary and temporary.
Sd4	TEMPORARY SEDIMENT TRAP		Sd4	A small temporary pond that detains a sediment pond so that sediment can settle out before being discharged into a watercourse or other outlet during construction.
St	STORM DRAIN OUTLET PROTECTION		St	A pond or short section of storm drain at the outlet of a storm drain system to prevent sediment from the construction runoff.
Su	SURFACE ROUGHENING		Su	A rough soil surface with horizontal depressions or a rough or stone left in a rough condition after grading.
Ch	CHANNEL STABILIZATION		Ch	Bank slopes shall be stabilized by design to resist erosion. Channel stabilization is the process of stabilizing the channel bed and banks with structural discharge or 25-yr frequency discharge, whichever is greater. Bank slope stabilization shall be used when the channel width is between 5 and 15 feet.
Rt	RETROFITTING		Rt	A device or structure placed in front of a permanent structural sediment pond outlet structure to serve as a temporary sediment filter.

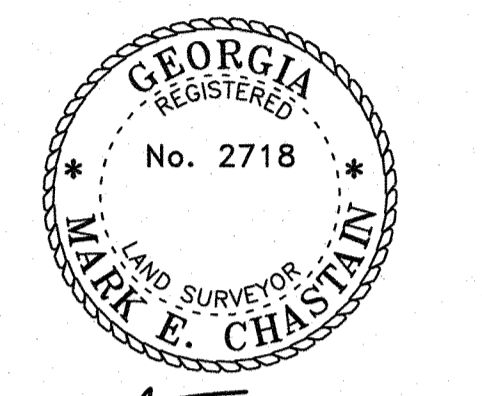
SEE SHEET 05 OF 14

BS&PC PLAN - INITIAL
PREPARED FOR

Bravo Estates

LAND LOTS 307 & 308
11th DISTRICT, 2nd SECTION
AND
LAND LOT 289
12th DISTRICT, 2nd SECTION
GILMER COUNTY, GEORGIA
DATE: FEBRUARY 7, 2022

REVISIONS:
DATE COMMENT



3-16-2022

LEVEL II CERTIFICATION
NUMBER 17322

LEGEND

○ (IPS) — IRON PIN FOUND	☒ FIRE HYDRANT	☑ POWER BOX
● (IPS) — IRON PIN SET	☒ UTILITY POLE	☑ UTILITY PRESTAL
△ — NO MONUMENT	☒ WATER METER	☑ DRAIN INLET
▲ — MONUMENT	☒ ROCC	☑ STORM MH
⊗ (MON) — MONUMENT	☒ GAS METER	☑ SEWER MH
	☒ GAS VALVE	☑ LIGHT POLE

P.O.B. — POINT OF BEGINNING
P/L — PROPERTY LINE
C/L — CENTERLINE
N/F — NOW OR FORMERLY
DB/pg — DEED BOOK/PAGE
PB/pg — PLAT BOOK/PAGE
RCP — REINFORCED CONC. PIPE
CMP — CORRUGATED METAL PIPE
COP — CORRUGATED PLASTIC PIPE
ASPH — ASPHALT
CONC — CONCRETE
GRAVEL — GRAVEL

LAND LOT LINE
STREAM BED/BOUND
D/H POWER
FENCE
RIGHT OF WAY
UG GAS LINE
UG POWER
SEWER LINE
WATER LINE
O/H TELEPHONE
STORM LINE
R/R TRACKS
EXIST. CONTOUR
EXIST. INDEX CONTOUR
PROP. CONTOUR
PROP. INDEX CONTOUR

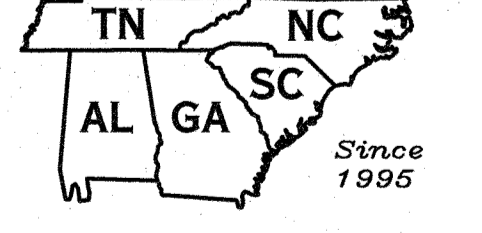
MONUMENT DIMENSIONS ARE OUTSIDE/OVERALL DIMENSIONS.
ALL IPS ARE CAPPED 5/8" REBAR UNLESS OTHERWISE NOTED.

"Thou shalt not remove thy neighbor's landmark, which they of old time have set."
Deuteronomy 19:14 KJV

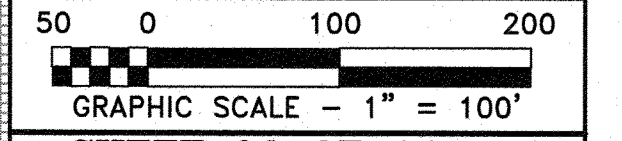
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IN GOD WE TRUST

PREPARED BY
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SURVEYING~PLANNING~CONSULTING



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NORTH CAROLINA LAND SURVEYING FIRM C-3198
ALABAMA LAND SURVEYING FIRM CA-857
SOUTH CAROLINA SURVEYING FIRM COA No. 5205



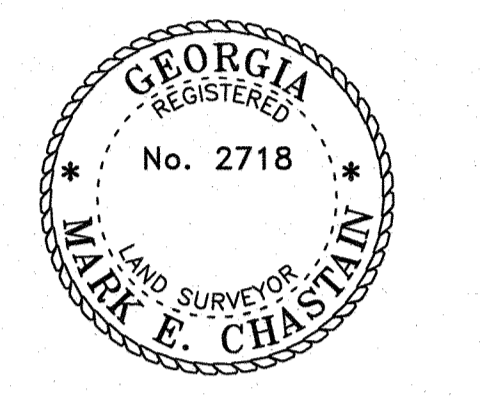
SHEET 06 OF 14
FILE: 221J34PP

Bravo Estates

LAND LOTS 307 & 308
11th DISTRICT, 2nd SECTION
AND
LAND LOT 289
12th DISTRICT, 2nd SECTION
GLMER COUNTY, GEORGIA

DATE: FEBRUARY 7, 2022

REVISIONS:
DATE COMMENT



3-16-2022

LEVEL II CERTIFICATION
NUMBER 17322

INTERMEDIATE PHASE EROSION CONTROL NOTES:

- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE: SUB PHASES SHOWN ON PLANS.
- EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
- SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
- TYPE "S41-S" SILT FENCE SHALL BE INSTALLED AT THE TOE OF ALL FILL SLOPES 1:1 TO 2:1 OR GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1' HEIGHT OF BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOE OF ALL SLOPE FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUN OFF AS SHOWN ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.
- ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKETS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- TYPE "S41-S" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED.
- STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- STONE CHECK DAMS SHALL BE INSTALLED IN ALL ROADWAY DITCHES WHERE THE SLOPE IS LESS THAN 1:2X. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
- ALL ROADWAY DRAINAGE DITCHES WHERE THE SLOPES ARE 1:5X OR GREATER WILL BE LINED WITH RIP-RAP. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
- ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 1/3 DEPTH OF BASIN. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPAIRED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL SERVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. SEE DETAIL SHEET 10.

THESE PLANS HAVE BEEN SIGNED AND SEALED FOR REVIEW ONLY. THEY CANNOT BE USED FOR CONSTRUCTION UNTIL THEY HAVE BEEN APPROVED, STAMPED AND SIGNED BY THE APPROPRIATE AUTHORITIES AND ALL NECESSARY PERMITS HAVE BEEN OBTAINED BY THE CLIENT.

THIS DRAWING SHEET IS PART OF A COMPLETE SET OF SITE DESIGN DRAWINGS. IT SHOULD NOT BE SEPARATED FROM THE SET. INFORMATION PERTINENT TO THIS SHEET MAY BE FOUND ON OTHER SHEETS IN THE SET. THE OWNER IS RESPONSIBLE FOR ENSURING THAT THE CONTRACTOR HAS ALL OF THE CONSTRUCTION DOCUMENTS NEEDED TO PREPARE THE SITE.

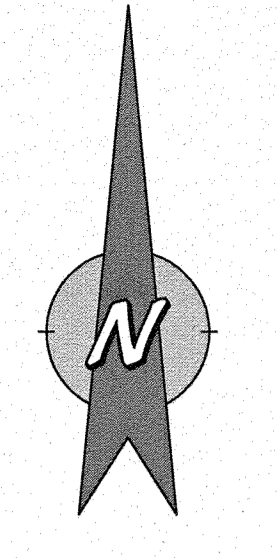
IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY, AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

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

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

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.



VEGETATIVE MEASURES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
De1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	[Symbol]	[Symbol]	Establishing temporary protection for disturbed areas where seeding may not have a suitable growing season to produce an erosion reducing cover.
De2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	[Symbol]	[Symbol]	Establishing temporary vegetative cover with fast growing seedlings on disturbed areas.
De3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	[Symbol]	[Symbol]	Establishing permanent vegetative cover such as trees, shrubs, grasses, etc. or legumes on disturbed areas.
Ss	SLOPE STABILIZATION	[Symbol]	[Symbol]	A protective covering used to prevent erosion and stabilize temporary or permanent vegetation or other slopes above size of channels.

BEST MANAGEMENT PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHEQUON	[Symbol]	[Symbol]	A small temporary barrier or dam constructed across a stream, drainage ditch or area of concentrated flow.
Cc	CRUSHED STONE	[Symbol]	[Symbol]	A crushed stone pad located at the construction exit to prevent a flow of sediment from exiting the site.
Di	DIVERSION	[Symbol]	[Symbol]	An earth channel or dike located down-drain to divert flow. This may be a temporary or permanent structure.
Rd	ROCK FILTER DAM	[Symbol]	[Symbol]	A permanent or temporary stone filter dam installed across small streams or sub-drainages.
Sd1	SEDIMENT BARRIER	[Symbol]	[Symbol]	A barrier to prevent sediment from leaving the construction site. It may be non-vegetative or straw or hay, burlap and polypropylene or sand mat fabric. The barriers are usually temporary and impermeable.
Sd4	TEMPORARY SEDIMENT TRAP	[Symbol]	[Symbol]	A small temporary pond that traps a disturbed area on that sediment and stores sediment from up-drain areas until it is cleaned and/or graded during construction.
St	STORM DRAIN OUTLET PROTECTION	[Symbol]	[Symbol]	A panel or sheet section of riprap, concrete or other material placed over the storm drain outlet to prevent sediment from entering the storm drain.
Su	SURFACE BOUNDING	[Symbol]	[Symbol]	A rough soil surface with horizontal dimensions on a contour or slope set in a riprap condition after grading.
Ch	CHANNEL STABILIZATION	[Symbol]	[Symbol]	Riprap filter stone, slope and bank stabilization structures, and other measures to stabilize channels, ditches or 20-yr frequency discharge, whichever is the greater. Rock riprap should be used when the channel velocity is between 5 and 10 ft/sec.
Rt	RETROFITTING	[Symbol]	[Symbol]	A device or structure placed in front of a permanent structure to serve as a temporary sediment filter.

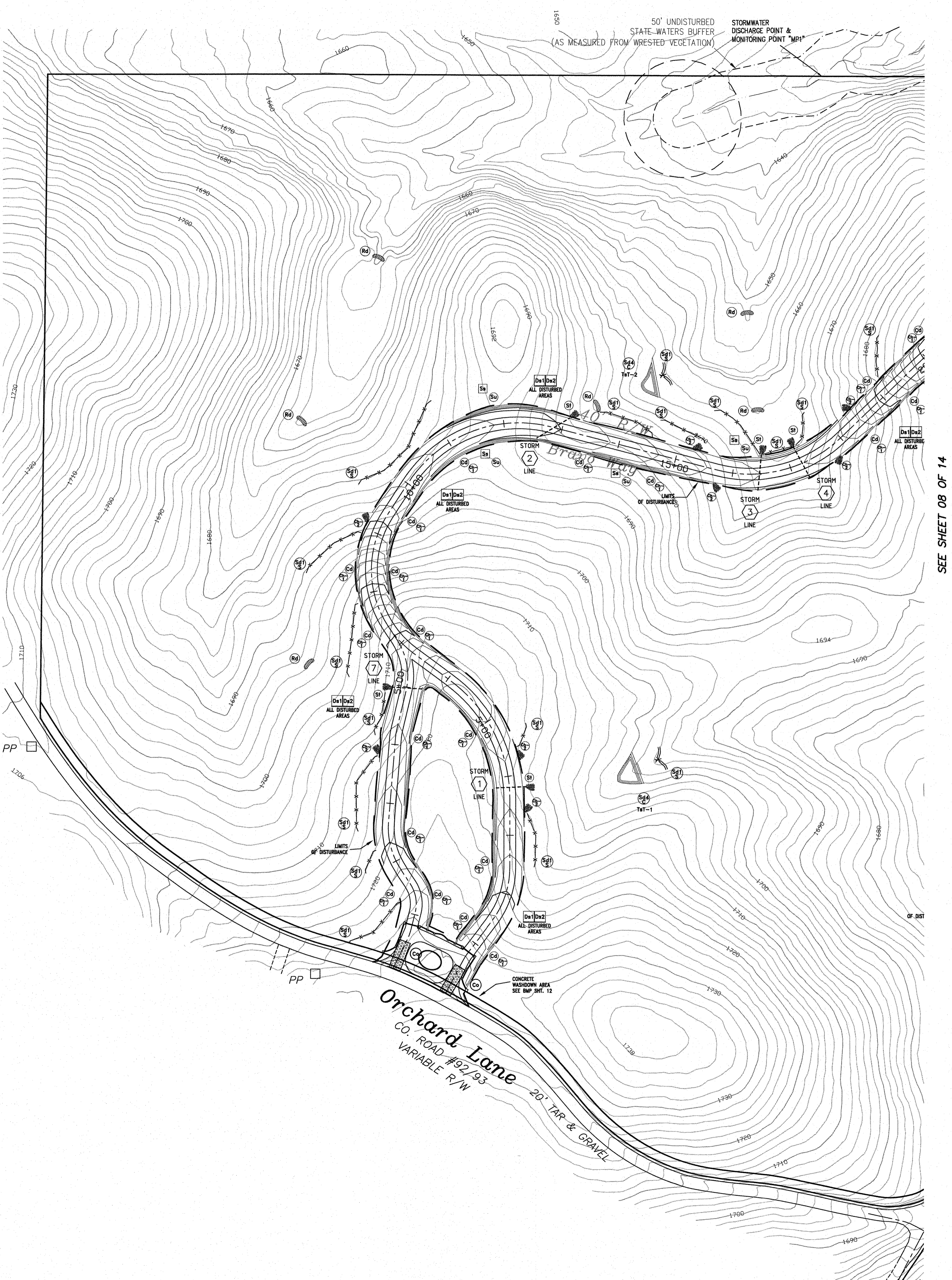
SEDIMENT STORAGE CALCULATIONS
THE DISTURBED AREA ASSOCIATED WITH ROAD CONSTRUCTION/UTILITY INSTALLATION SHOWN HEREON IS 5.4 ACRES. AT THE REQUIRED RATE OF 67 CUBIC YARDS PER ACRE DISTURBED, 9,769 CUBIC FEET OF SEDIMENT STORAGE MUST BE PROVIDED. THIRTEEN STORAGE STRUCTURES (TEN ROCK DAM(S), THREE TEMPORARY SEDIMENT TRAPS, AND A SERIES OF CHECK DAMS) AS SHOWN HEREON ACCOMMODATE THE STORAGE REQUIREMENTS. VOLUME CALCULATIONS FOR THE TEMPORARY SEDIMENT TRAPS WERE DERIVED USING THE AVERAGE END AREA METHOD AND THE PROPOSED CONTOURS GENERATED.

THE VOLUME FOR THE ROCK DAM IS CALCULATED AS FOLLOWS: ESTIMATED LENGTH OF SEDIMENT IMPOUNDMENT: 20', ESTIMATED EFFECTIVE HEIGHT OF DAM: 3.5', ESTIMATED WIDTH OF SEDIMENT IMPOUNDMENT AT DAM: 14'. THIS PRODUCES (USING AVERAGE END AREA METHOD AGAIN) A VOLUME OF (140+0)/2x3.5=245 CUBIC FEET.

STRUCTURE (Sd4-C)	VOLUME PROVIDED
TST-1 = 4,314 CUBIC FEET (A:1700=1182sf, A:1698=904sf, A:1696=662sf)	
TST-2 = 2,629 CUBIC FEET (A:1666=813sf, A:1664=557sf, A:1662=351sf)	
TST-3 = 3,049 CUBIC FEET (A:1642=925sf, A:1640=646sf, A:1638=416sf)	

TOTAL ROCK DAMS = 10 (SEE STORAGE CALCULATIONS ABOVE)

10x245cf = 2,450cf
TOTAL PROVIDED = 12,442cf
TOTAL REQUIRED = 9,769cf



SEE SHEET 08 OF 14

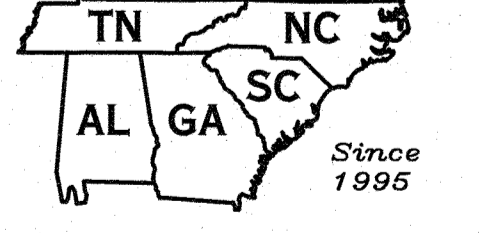
LEGEND

○	IRON PIN FOUND	☒	FIRE HYDRANT	☐	POWER BOX
●	(IPS) IRON PIN SET	○	UTILITY POLE	○	UTILITY PRESTAL
△	NO MONUMENT	○	WATER METER	○	DRAIN INLET
□	ROCK	○	WATER VALVE	○	STORM MH
⊞	MONUMENT	○	GAS METER	○	SEWER MH
⊞	MONUMENT	○	GAS VALVE	○	LIGHT POLE
P.O.B.	POINT OF BEGINNING	---	LAND LOT LINE	---	STREAM OR POND
P/L	PROPERTY LINE	---	O/H POWER	---	O/H POWER
C/L	CENTERLINE	---	FENCE	---	FENCE
---	CENTERLINE	---	RIGHT OF WAY	---	RIGHT OF WAY
---	RIGHT OF WAY	---	UG POWER	---	UG POWER
---	UG POWER	---	SEWER LINE	---	SEWER LINE
---	SEWER LINE	---	WATER LINE	---	WATER LINE
---	WATER LINE	---	O/H TELEPHONE	---	O/H TELEPHONE
---	O/H TELEPHONE	---	STORM LINE	---	STORM LINE
---	STORM LINE	---	R/R TRACKS	---	R/R TRACKS
---	R/R TRACKS	---	EXIST. CONTOUR	---	EXIST. CONTOUR
---	EXIST. CONTOUR	---	PROP. CONTOUR	---	PROP. CONTOUR
---	PROP. CONTOUR	---	PROF. CONTOUR	---	PROF. CONTOUR
---	PROF. CONTOUR	---		---	

MONUMENT DIMENSIONS ARE OUTSIDE OVERALL DIMENSIONS. ALL IPS ARE CAPPED 5/8" REBAR UNLESS OTHERWISE NOTED.
"Thou shalt not remove thy neighbor's landmark, which they of old time have set."
Deuteronomy 19:14 KJV

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PREPARED BY
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ALABAMA LAND SURVEYING FIRM CA-652-LS
SOUTH CAROLINA SURVEYING FIRM COA No. 5205

50 0 100 200
GRAPHIC SCALE - 1" = 100'
SHEET 07 OF 14
FILE: 221J34PP

INTERMEDIATE PHASE EROSION CONTROL NOTES:

- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE SUB PHASES SHOWN ON PLANS.
- EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
- SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
- TYPE "S41-S" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/3 HEIGHT OF BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUN OFF AS SHOWN ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.
- ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKETS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- TYPE "S41-S" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED.
- STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- STONE CHECK DAMS SHALL BE INSTALLED IN ALL ROADWAY DITCHES WHERE THE SLOPE IS LESS THAN 15%. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
- ALL ROADWAY DRAINAGE DITCHES WHERE THE SLOPES ARE 15% OR GREATER WILL BE LINED WITH R/R/RAP. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
- ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES THE 1/3 DEPTH OF BASIN. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL SERVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

- THE STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. SEE DETAIL SHEET 10.

- THESE PLANS HAVE BEEN SIGNED AND SEALED FOR REVIEW ONLY. THEY CANNOT BE USED FOR CONSTRUCTION UNTIL THEY HAVE BEEN APPROVED, STAMPED AND SIGNED BY THE APPROPRIATE AUTHORITIES AND ALL NECESSARY PERMITS HAVE BEEN OBTAINED BY THE CLIENT.
- THIS DRAWING SHEET IS PART OF A COMPLETE SET OF SITE DESIGN DRAWINGS. IT SHOULD NOT BE SEPARATED FROM THE SET. INFORMATION PERTINENT TO THIS SHEET MAY BE FOUND ON OTHER SHEETS IN THE SET. THE OWNER IS RESPONSIBLE FOR ENSURING THAT THE CONTRACTOR HAS ALL OF THE CONSTRUCTION DOCUMENTS NEEDED TO PREPARE THE SITE.
- IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY, AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS OR RESOLVED.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

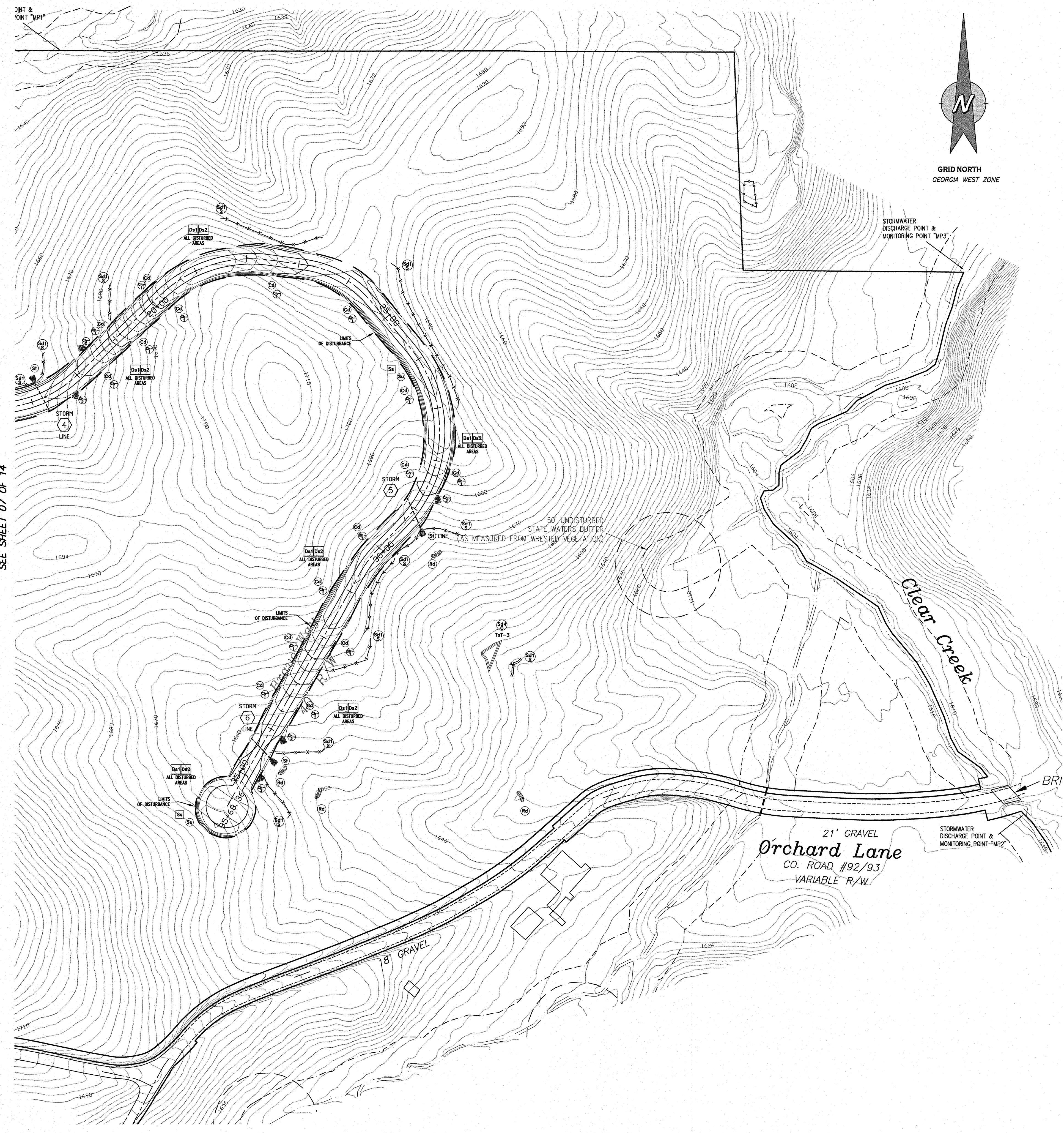
VEGETATIVE MEASURES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DEFURROWED AREA STABILIZATION (WITH MULCHING ONLY)	[Symbol]	[Symbol]	Establishing temporary protection for defurrowed areas where seeding may not take or stabilize existing cover to produce an erosion resisting cover.
Ds2	DEFURROWED AREA STABILIZATION (WITH PERMANENT VEGETATION)	[Symbol]	[Symbol]	Establishing permanent vegetation cover over defurrowed areas.
Ds3	DEFURROWED AREA STABILIZATION (WITH PERMANENT VEGETATION)	[Symbol]	[Symbol]	Establishing permanent vegetation cover over defurrowed areas.
Ss	SLOPE STABILIZATION	[Symbol]	[Symbol]	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines or channels.

BEST MANAGEMENT PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM	[Symbol]	[Symbol]	A small temporary barrier or dam constructed across a roadside/ditch/road or edge of construction site.
Co	CONSTRUCTION EXIT	[Symbol]	[Symbol]	A small strip placed at the toe of the construction site to prevent a sheet of mud from leaving the site thereby protecting public streets.
Di	DIVERSION	[Symbol]	[Symbol]	An earth channel or ditch located down-drain or across a slope to divert runoff from a temporary or permanent structure.
Rd	ROCK FILTER DOW	[Symbol]	[Symbol]	A permanent or temporary stone filter dam installed across stream or drainage.
Sd1	SEDIMENT BARRIER	[Symbol]	[Symbol]	A barrier to prevent sediment from leaving the construction site. It may be made of straw, hay, brush, or other material. The barrier is usually temporary and impermanent.
Sd4	TEMPORARY SEDIMENT TRAP	[Symbol]	[Symbol]	A small temporary pond that traps sediment and debris. It is usually constructed with a sand filter and a silt trap. It is used to collect and store sediment from runoff during construction.
St	STORM DRAIN OUTLET PROTECTION	[Symbol]	[Symbol]	A panel or short section of silt trap placed at the outlet of a storm drain system preventing erosion from the construction site.
Su	SURFACE ROUGHENING	[Symbol]	[Symbol]	A rough soil surface with horizontal ridges or a similar surface left in a roughened condition after grading.
Ch	CHANNEL STABILIZATION	[Symbol]	[Symbol]	Rock Riprap Slings shall be designed to resist displacement when the channel is flowing at the normal discharge or 20% frequency discharge, whichever is the greater. Rock riprap slings should be used when the channel velocities are between 5 and 10 ft/sec.
Rt	RETROFITTING	[Symbol]	[Symbol]	A device or structure placed in front of a permanent aluminum detention pond which structure to serve as a temporary sediment filter.

SEE SHEET 07 OF 14



ES&PC PLAN - INTERMEDIATE
PREPARED FOR
Bravo Estates
LAND LOTS 307 & 308
11th DISTRICT, 2nd SECTION
AND
LAND LOT 289
12th DISTRICT, 2nd SECTION
GILMER COUNTY, GEORGIA
DATE: FEBRUARY 7, 2022

REVISIONS:
DATE COMMENT

GEORGIA REGISTERED
No. 2718
LAND SURVEYOR
MARK B. CHASTAIN

3-16-2022
LEVEL II CERTIFICATION
NUMBER 17322

LEGEND

○ (IPS) - IRON PIN FOUND	□ (U) UTILITY POLE SET	□ (P) POWER BOX
△ - NO MONUMENT	□ (W) WATER METER	□ (D) DRAIN INLET
□ (M) - MONUMENT	□ (V) WATER VALVE	□ (S) STORM H/T
□ (H) - MONUMENT	□ (G) GAS METER	□ (S) SEWER H/T
	□ (V) GAS VALVE	□ (L) LIGHT POLE

P.O.B. - POINT OF BEGINNING
P/L - PROPERTY LINE
P/L - PROPERTY LINE
C/L - CENTERLINE
N/F - NOW OR FORMERLY
DB/PP - DEED BOOK/PAGE
PB/PP - PLAT BOOK/PAGE
PP - UTILITY POLE
RCP - RIBBONFLEX CONCRETE PIPE
CMP - CORRUGATED METAL PIPE
CPP - CORRUGATED PLASTIC PIPE

□ (U) UTILITY POLE
□ (P) POWER BOX
□ (D) DRAIN INLET
□ (S) STORM H/T
□ (S) SEWER H/T
□ (L) LIGHT POLE
--- G --- RIGHT OF WAY
--- E --- UG POWER
--- S --- SEWER LINE
--- T --- O/H TELEPHONE
--- S --- STORM LINE
--- R/R --- R/R TRACKS
--- C --- EXIST. CENTERLINE
--- 1000 --- EXIST. NEXT CONTOUR
--- PROP. CONTOUR
--- 1000 --- GRAVEL

MONUMENT DIMENSIONS ARE OUTSIDE/OVERALL DIMENSIONS
ALL IPS ARE CAPPED 5/8" REBAR UNLESS OTHERWISE NOTED.

"Thou shalt not remove thy neighbor's landmark, which they of old time have set."
Deuteronomy 19:14 KJV

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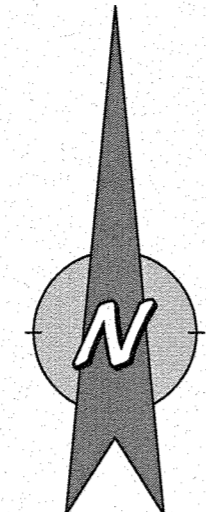
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ALABAMA LAND SURVEYING FIRM CA-852-LS
SOUTH CAROLINA SURVEYING FIRM OAM No. 5205

50 0 100 200
GRAPHIC SCALE - 1" = 100'
SHEET 08 OF 14
FILE: 221J34PP

FINAL PHASE EROSION CONTROL NOTES:

- THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION.
- SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE SIZES.
- AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
- ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLAN.
- UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.



VEGETATIVE MEASURES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DEFERRED AREA STABILIZATION (WITH MULCHING ONLY)		[D1]	Establishing temporary protection for deferred areas where seeding may not have a suitable growing season to produce or restore existing cover.
Ds2	DEFERRED AREA STABILIZATION (TEMPORARY SEEDING)		[D2]	Establishing temporary vegetation cover with fast growing species on disturbed areas.
Ds3	DEFERRED AREA STABILIZATION (PERMANENT VEGETATION)		[D3]	Establishing permanent vegetation cover such as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
Ss	SLOPE STABILIZATION		[S]	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, steep bank or channels.

BEST MANAGEMENT PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM		[Cd]	A small temporary barrier or dam constructed across small stream or ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT		[Co]	A crushed stone pad located at the construction site exit to provide a place for turning mud from the site thereby protecting public streets.
Di	DIVERSION		[Di]	An earth channel or other located downstream of areas to divert runoff. This may be a temporary or permanent structure.
Rd	ROCK FILTER DAM		[Rd]	A permanent or temporary stone filter dam installed across small stream or ditch.
Sd1	SEDIMENT SWEEPER		[Sd1]	A barrier to prevent sediment from leaving a construction site. It may be made of straw, brush, or hay, burlap, and polypropylene or sediment fabric. The barrier are usually temporary and biodegradable.
Sd4	TEMPORARY SEDIMENT TRAP		[Sd4]	A small temporary pond that traps a substantial amount of soil sediment and other sediment from catch areas cleared and/or graded during construction.
St	STONE DRAIN OUTLET PROTECTION		[St]	A pond or short section of riprap channel at the outlet of a storm drain system protecting the constructed runoff.
Su	SURFACE ROUGHENING		[Su]	A rough soil surface with horizontal depressures or a contour or slope left in a rough condition after grading.
Ch	CHANNEL STABILIZATION		[Ch]	Bank erosion control system used to stabilize a channel. It may be made of stone, brush, or hay, burlap, and polypropylene or sediment fabric. The barrier are usually temporary and biodegradable.
Rt	RETROFITTING		[Rt]	A device or structure placed in front of a permanent structure to serve as a temporary sediment filter.

SEDIMENT STORAGE CALCULATIONS

THE DISTURBED AREA ASSOCIATED WITH HOME CONSTRUCTION SHOWN (CALC. @ 8500SF PER HOME SITE) HEREON IS 5.7 ACRES. AT THE REQUIRED RATE OF 67 CUBIC YARDS PER ACRE DISTURBED, 10,311 CUBIC FEET OF SEDIMENT STORAGE MUST BE PROVIDED. THIRTEEN STORAGE STRUCTURES (TEN ROCK DAMS), THREE TEMPORARY SEDIMENT TRAPS, AND A SERIES OF CHECK DAMS AS SHOWN HEREON ACCOMMODATE THE STORAGE REQUIREMENTS. VOLUME CALCULATIONS FOR THE TEMPORARY SEDIMENT TRAPS WERE DERIVED USING THE AVERAGE END AREA METHOD AND THE PROPOSED CONTOURS GENERATED.

THE VOLUME FOR THE ROCK DAM IS CALCULATED AS FOLLOWS: ESTIMATED LENGTH OF SEDIMENT IMPOUNDMENT: 20', ESTIMATED EFFECTIVE HEIGHT OF DAM: 3.5', ESTIMATED WIDTH OF SEDIMENT IMPOUNDMENT AT DAM: 14'. THIS PRODUCES (USING AVERAGE END AREA METHOD AGAIN) A VOLUME OF (14+0)/2x3.5=245 CUBIC FEET.

STRUCTURE (Sd4-D) VOLUME PROVIDED
 TST-1 = 4,314 CUBIC FEET (A:1700=1182sf, A:1696=662sf)
 TST-2 = 2,629 CUBIC FEET (A:1666=813sf, A:1664=557sf, A:1662=351sf)
 TST-3 = 3,049 CUBIC FEET (A:1642=925sf, A:1640=646sf, A:1638=416sf)

TOTAL ROCK DAMS = 10 (SEE STORAGE CALCULATIONS ABOVE)

10x245cf = 2,450cf

TOTAL PROVIDED = 12,442cf

TOTAL REQUIRED = 10,311cf

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- THIS DRAWING SHEET IS PART OF A COMPLETE SET OF SITE DESIGN DRAWINGS. IT SHOULD NOT BE SEPARATED FROM THE SET. INFORMATION PERTINENT TO THIS SHEET MAY BE FOUND ON OTHER SHEETS IN THE SET. THE OWNER IS RESPONSIBLE FOR ENSURING THAT THE CONTRACTOR HAS ALL OF THE CONSTRUCTION DOCUMENTS NEEDED TO PREPARE THE SITE.

- IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY, AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS OR RESOLVED.

- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

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

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

- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.



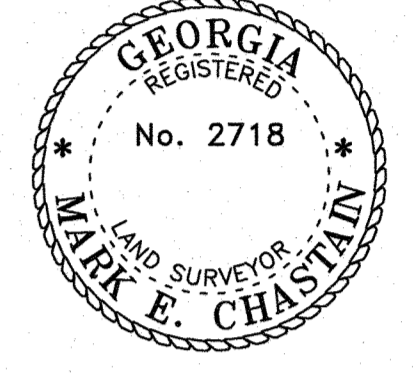
SEE SHEET 10 OF 14

Bravo Estates

LAND LOTS 307 & 308
 11th DISTRICT, 2nd SECTION
 AND
 LAND LOT 289
 12th DISTRICT, 2nd SECTION
 GILMER COUNTY, GEORGIA
 DATE: FEBRUARY 7, 2022

REVISIONS:

DATE	COMMENT



3-16-2022

LEVEL II CERTIFICATION
 NUMBER 17322

LEGEND

○	IRON PIN FOUND	☒	FIRE HYDRANT	☐	POWER BOX
●	IRON PIN SET	☒	UTILITY POLE	☐	UTILITY REBAR
△	NO MONUMENT	☒	WATER METER	☐	DRAIN INLET
▲	ROCK	☒	WATER VALVE	☐	STORM MH
■	MONUMENT	☒	GAS METER	☐	SEWER MH
■	MONUMENT	☒	GAS VALVE	☐	LIGHT POLE

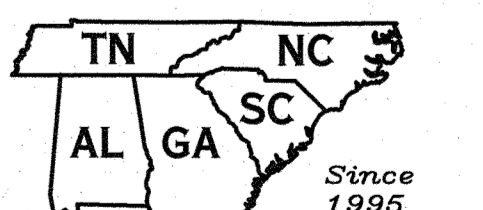
P.O.B.	POINT OF BEGINNING	---	LAND LOT LINE
P/L	PROPERTY LINE	---	STREAM OR POND
C/L	CENTERLINE	---	O/H POWER
---	CENTERLINE	---	FENCE
---	CENTERLINE	---	RIGHT OF WAY
---	CENTERLINE	---	UG GAS LINE
N/F	NON OR FORMERLY	---	UG POWER
DB/PP	DEED BOOK/PAGE	---	SEWER LINE
PP/PP	PLAT BOOK/PAGE	---	WATER LINE
PP	UTILITY POLE	---	T
RCP	REINFORCED CONC. PIPE	---	O/H TELEPHONE
CMP	CORRUGATED METAL PIPE	---	STORM LINE
CPP	CORRUGATED PLASTIC PIPE	---	R/R TRACKS
---	CONCRETE	---	EXIST. CONTOUR
---	GRAVEL	---	PROP. CONTOUR
---	GRAVEL	---	PROP. CONTOUR

MONUMENT DIMENSIONS ARE OUTSIDE/OVERALL DIMENSIONS. ALL IPS ARE CAPPED 5/8" REBAR UNLESS OTHERWISE NOTED.
 "Thou shalt not remove thy neighbor's landmark, which they of old time have set."
 Deuteronomy 19:14 KJV

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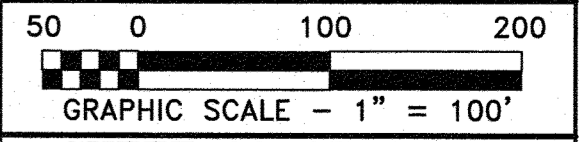
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CHASTAIN & ASSOCIATES, P.C.
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 NORTH CAROLINA LAND SURVEYING FIRM C-3198
 ALABAMA LAND SURVEYING FIRM CA-852-LS
 SOUTH CAROLINA SURVEYING FIRM COA NO. 5205



FINAL PHASE EROSION CONTROL NOTES:

- THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION.
- SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER.
- AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
- ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. 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 AS DIRECTED BY THE ON SITE INSPECTOR OF THE CIVIL ENGINEER.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLAN.
- UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

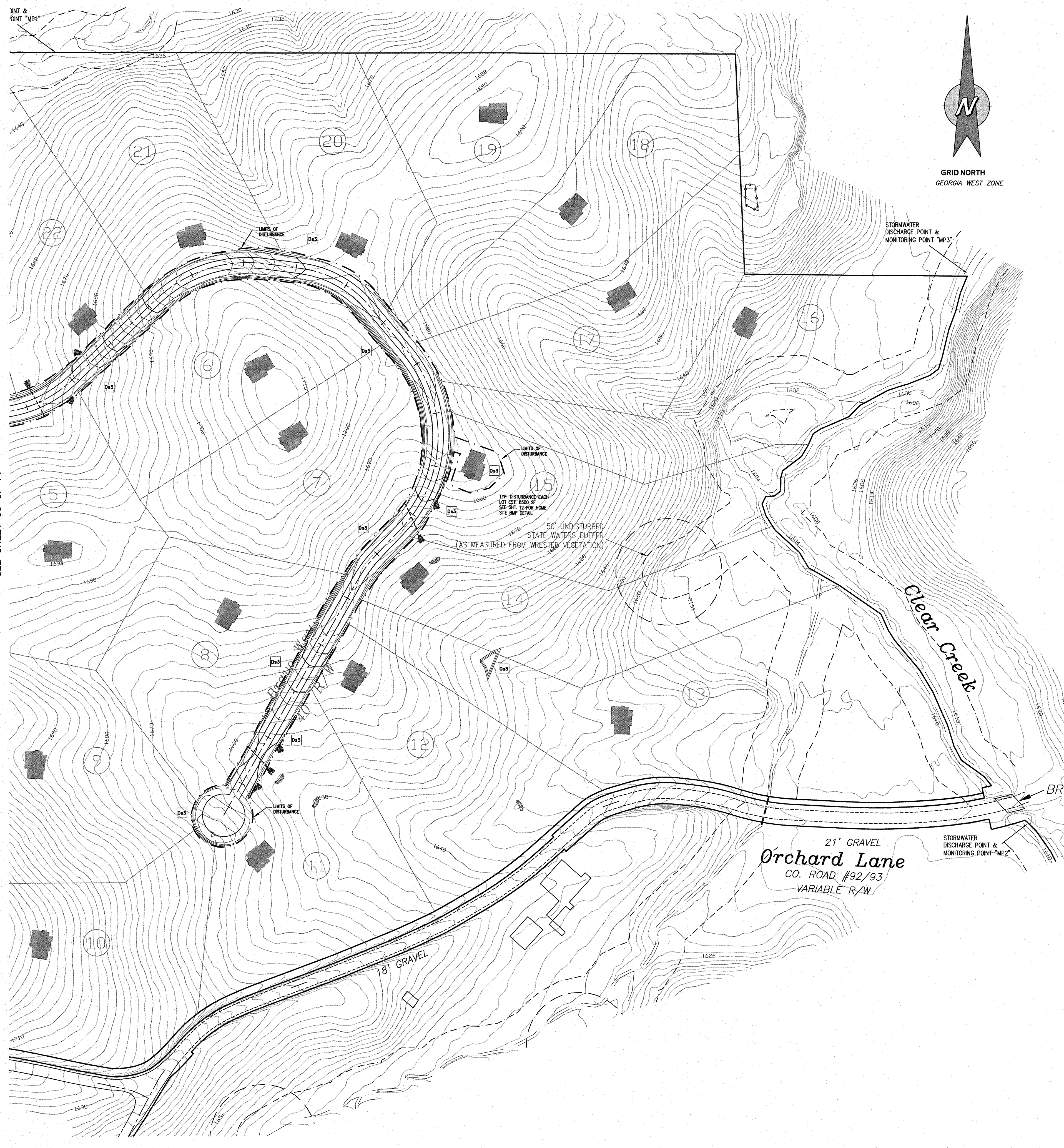
VEGETATIVE MEASURES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	RESTORED AREA STABILIZATION (SEEDING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seeding may not have a suitable growing season to produce an erosion reducing cover.
Ds2	RESTORED AREA STABILIZATION (PERMANENT VEGETATION)		Ds2	Establishing permanent vegetation cover with fast growing seedlings on disturbed areas.
Ds3	RESTORED AREA STABILIZATION (PERMANENT VEGETATION)		Ds3	Establishing permanent vegetation cover such as trees, shrubs, vines, grasses, and/or legumes on disturbed areas.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and stabilize temporary or permanent vegetation on steep slopes, above line of clearance.

BEST MANAGEMENT PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM		Cd	A small temporary barrier or dam constructed across a subsurface ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT		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	DIVERSION		Di	An earth channel or dike located downstream from a disturbed area to divert runoff. This may be a temporary or permanent structure.
Rd	ROCK FILTER DIRT		Rd	A permanent or temporary stone filter dirt located across small streams or gullies.
Sd1	SEDIMENT SWEEPER		Sd1	A barrier to prevent sediment from leaving the construction site. It may be a hydroplastic or stone or hay bales. The barriers are usually temporary and impervious.
Sd4	TEMPORARY SEDIMENT TRAP		Sd4	A small temporary pond that traps a disturbed area as the sediment on surface runoff from light rains. It is used to prevent sediment from leaving the construction site.
St	STORM DRAIN OUTLET PROTECTION		St	A pond or short section of pipe placed at the outlet of a storm drain system preventing erosion from the construction runoff.
Su	SURFACE BOUNDING		Su	A rough soil surface with horizontal depressions on a contour or slope left in a rough condition after grading.
Ch	CHANNEL STABILIZATION		Ch	Rock riprap lining, riprap shall be placed in small depressions when disturbed areas are to be stabilized. Riprap shall be placed in the bed and on the banks of the channel. Riprap shall be placed in the bed and on the banks of the channel. Riprap shall be placed in the bed and on the banks of the channel.
Rt	RETROFITTING		Rt	A device or structure placed in front of a permanent structure to serve as a temporary sediment filter.

SEE SHEET 09 OF 14



- THESE PLANS HAVE BEEN SIGNED AND SEALED FOR REVIEW ONLY. THEY CANNOT BE USED FOR CONSTRUCTION UNTIL THEY HAVE BEEN APPROVED, STAMPED AND SIGNED BY THE APPROPRIATE AUTHORITIES AND ALL NECESSARY PERMITS HAVE BEEN OBTAINED BY THE CLIENT.
- THIS DRAWING SHEET IS PART OF A COMPLETE SET OF SITE DESIGN DRAWINGS. IT SHOULD NOT BE SEPARATED FROM THE SET. INFORMATION PERTINENT TO THIS SHEET MAY BE FOUND ON OTHER SHEETS IN THE SET. THE OWNER IS RESPONSIBLE FOR ENSURING THAT THE CONTRACTOR HAS ALL OF THE CONSTRUCTION DOCUMENTS NEEDED TO PREPARE THE SITE.
- IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY, AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS OR RESOLVED.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

FOR INITIAL PHASE - ONLY DISTURB WHAT IS REQUIRED TO INSTALL PERIMETER CONTROLS AND SEDIMENT STORAGE

ES&PC PLAN - FINAL
PREPARED FOR
Bravo Estates
LAND LOTS 307 & 308
11th DISTRICT, 2nd SECTION
AND
LAND LOT 289
12th DISTRICT, 2nd SECTION
GILMER COUNTY, GEORGIA
DATE: FEBRUARY 7, 2022

REVISIONS:
DATE COMMENT

3-16-2022
LEVEL II CERTIFICATION
NUMBER 17322

LEGEND
 ○ IRON PIN FOUND
 ● IRON PIN SET
 △ NO MONUMENT
 □ MONUMENT
 ○ PRE HYDRANT
 □ UTILITY POLE
 ⊕ UTILITY PRESTAL
 ⊖ WATER METER
 ⊕ WATER VALVE
 ⊖ SEWER METER
 ⊕ SEWER VALVE
 ⊖ LIGHT POLE
 P.O.B. POINT OF BEGINNING
 P/L PROPERTY LINE
 C/L CENTERLINE
 N/F NOW OR FORMERLY
 DB/pg DEED BOOK/PAGE
 PB/pg PLAY BOOK/PAGE
 RCP REINFORCED CONC. PIPE
 CMP CORRUGATED METAL PIPE
 COP CORRUGATED PLASTIC PIPE
 ASPHALT
 CONCRETE
 GRAVEL
 LAND LOT LINE
 P O/H POWER
 FENCE
 RIGHT OF WAY
 UG GAS LINE
 UG POWER
 SEWER LINE
 WATER LINE
 O/H TELEPHONE
 STORM LINE
 R/R TRACKS
 EXIST. CONTOUR
 EXIST. INDEX CONTOUR
 PROP. CONTOUR
 PROP. INDEX CONTOUR

MONUMENT DIMENSIONS ARE OUTSIDE/OVERALL DIMENSIONS
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"Thou shalt not remove thy neighbor's landmark, which they of old time have set."
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PREPARED BY
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AL GA SC
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50 0 100 200
GRAPHIC SCALE - 1" = 100'
SHEET 10 OF 14
FILE: 221J3APP

Bravo Estates

LAND LOTS 307 & 308
11th DISTRICT, 2nd SECTION
AND
LAND LOT 289
12th DISTRICT, 2nd SECTION
GILMER COUNTY, GEORGIA

DATE: FEBRUARY 7, 2022

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3-16-2022
LEVEL II CERTIFICATION
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CLEARING PHASE EROSION CONTROL NOTES:
* PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AEA EROSION CONTROL INSPECTOR.
* THE CONTRACTOR SHALL OBSERVE THE PROJECT DESIGN AND MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
* THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

* PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

- 1. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAVE DIRT OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3" IN DIAMETER AND OVERLAP ON A GEOTEXTILE UNDERLAYER. THE GEOTEXTILE UNDERLAYER SHALL MEET THE REQUIREMENTS OF MSHTD M289-96, SECTION 7.3 SEPARATION REQUIREMENTS.
- 2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/DROPS, ALL PERMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
- 3. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2.2.2. SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAI FENCING SHOULD BE REPAIRED IMMEDIATELY.
- 4. SLOPE PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.
- 5. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN AND AS NOTED.

* AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL.
* NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORSSEEN CONDITIONS EXIST IN THE FIELD THAT WARRANTS ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTOR.
* AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONS AND DIVERSION DICES AS SHOWN ON THE CLEARING PHASE EROSION AND STORM WATER RUN OFF. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRUBBING ACTIVITIES WILL NOT OCCUR.
* NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR ENGINEER OR RECORD.
* ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRUBBING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
* ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.
* ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163 AND 164 OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS, FOR ROADS AND BRIDGES.
* MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
* ALL DISTURBED AREAS LEFT MULCHED 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
* SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
* THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
* CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
* EROSION CONTROL MEASURES SHALL 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
* FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

GRADING PHASE EROSION CONTROL NOTES:

* DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS. BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED, NOE SUB PHASES SHOWN ON PLANS.
* FARMWORK OPERATIONS IN THE VICINITY OF STORM STRUCTURES SHALL BE CAREFULLY CONTROLLED TO AVOID TRACKING OR SLOUGHING INTO THE BUFFER AREAS.
* THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION:
* SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
* EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GRADING AND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
* THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRIAGES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
* TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE TOP OF ALL SLOPES TO FEET OR GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF BARRIER. ADDITIONALLY, DIVERSION DICES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID SILT FENCES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUN OFF AS SHOWN ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

* THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOP OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES ACHIEVED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.
* ALL SLOPES STEEPER THAN 2:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATING OR BLANKETS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
* TYPE "C" SILT FENCE SHALL BE PLACED AT THE TOP OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
* INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED.
* STORM DRAIN CUTTER PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
* STONE CHECK DAMS SHALL BE INSTALLED IN ALL ROADWAY DITCHES WHERE THE SLOPE IS LESS THAN 1:5%. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
* ALL ROADWAY DRAINAGE DITCHES WHERE THE SLOPES ARE 1:5% OR GREATER WILL BE LINED WITH RIP-RAP. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
* ALL DRAINAGE CHANNELS SHALL BE COVERED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
* ALL GRADDED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
* MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
* ALL DISTURBED AREAS LEFT MULCHED 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
* AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DICES AS SHOWN ON THE PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES THE 1/3 DEPTH OF THE POND. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
* SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL SERVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

FOR CONSTRUCTION EXIT LOCATION AND SHT. 8 FOR DETAILS. THE STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

* CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
* 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
* FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
* THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. SEE SHT. 8 FOR DETAILS.
* FINAL PHASE EROSION CONTROL NOTES:
* THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION:
* SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
* MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
* ALL DISTURBED AREAS LEFT MULCHED 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
* THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES THE 1/3 DEPTH OF THE POND WHEN IT REACHES THE HALF WAY POINT ON THE RISE.
* AFTER CURING, COURSE AGGREGATE BASES AND FINISHING MATERIALS AND FINISHING MATERIALS SHALL BE MAINTAINED AS SHOWN ON THE PLAN. ALL CURB INLETS SHALL BE MAINTAINED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
* ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.
* SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
* THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. SEE SHT. 8 FOR DETAILS.
* CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
* 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
* FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
* UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

CRITICAL WORK ZONE EROSION CONTROL NOTES:

* SHADED AREAS SHOWN ON GRADING PHASE EROSION CONTROL PLANS REPRESENT CRITICAL WORK ZONES. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE EQUIVOCATING POLYMERS, AND EROSION CONTROL MATING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT.
* EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
* THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
* 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.
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. GAR 10003 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR INFRASTRUCTURE.

AUTHORIZED DISCHARGES:

- 1. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE, PART 1.C.1.4.2.
- 2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORMWATER EXCEPT AS PROVIDED IN PART 1.C.2 AND PART 111A.2 OF THE PERMIT. PART 111A.1.
- 3. AUTHORIZED MIXED STORMWATER DISCHARGES: PART 1.C.2
A-THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY.
B-THE STORMWATER DISCHARGES WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT.
C-STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.
4. AUTHORIZED NON-STORMWATER DISCHARGES: PART 111A.2
A-FIRE FIGHTING ACTIVITIES
B-FIRE HYDRANT FLOWING
C-POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING
D-IRRIGATION DRAINAGE
E-AIR CONDITIONING CONDENSATION
F-SPRINKERS
G-UNCONTAMINATED GROUND WATER

LIMITATIONS ON COVERAGE - PART 1.C.3

- 1. THE FOLLOWING STORMWATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:
A-STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATES FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.
B-DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.6 (NON-STORMWATER DISCHARGES) OF THIS PERMIT.
C-STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMITTEE NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES.
D-STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

2. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, et seq.), 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY EPD AT (404) 656-4883 OR (800) 241-1113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL AND HAZARDOUS MATERIALS SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, et seq.) 40 CFR 117 AND 40 CFR 302 AS SOON AS HE/SHE HAS KNOWLEDGE OF THE DISCHARGE.

3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL.
WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
WATER QUALITY COMPLIANCE - PART 1.C.4
ALL DISCHARGES AUTHORIZED BY THIS PERMIT SHALL NOT CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL. CHAPTER 391-3-6-03.

OIL AND HAZARDOUS SUBSTANCE LIABILITY - PART V.H.
NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. §§ 12-8-60, et seq. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED; NOR IS THE OPERATOR RELIEVED FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

STORM WATER MANAGEMENT
NO PERMANENT STORMWATER SYSTEMS WILL BE CONSTRUCTED. STORMWATER RUN-OFF WILL BE CONVEYED BY OPEN DRAINAGE DITCHES AND STORM DRAIN PIPES.

WASTE MANAGEMENT
A-ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER WHICH MEETS LOCAL AND STATE REGULATIONS.
B-ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION.
C-A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR WILL COLLECT ALL SANITARY WASTE FROM THE PORTABLE UNITS ON THE SITE ON A REGULAR BASIS.
D-ALL ON-SITE PERSONNEL WILL BE INSTRUCTED IN PROPER WASTE MANAGEMENT PRACTICES.

WASTE MATERIALS
NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER WHICH MEETS ALL SOLID WASTE MANAGEMENT REGULATIONS.
ALL WASTE MATERIALS WILL BE STORED IN THE DRAINAGE AREA UNTIL THEY CAN BE REMOVED BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR BY THE CONTRACTOR. WHEN NECESSARY, WASTE WILL BE HAULLED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE.
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION.
A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR WILL COLLECT ALL SANITARY WASTE FROM THE PORTABLE UNITS ON THE SITE ON A REGULAR BASIS.
ALL PERSONNEL WILL BE INSTRUCTED IN PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED ON-SITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

INVENTORY FOR POLLUTION PREVENTION PLAN
THE FOLLOWING MATERIAL OR SUBSTANCES MAY BE ON-SITE DURING CONSTRUCTION:
A-BUILDING MATERIALS
B-CONCRETE
C-ASPHALT
D-PETROLEUM BASED PRODUCTS
E-FERTILIZERS

WASTE MANAGEMENT SPILL PREVENTION MEASURES - ITEM 29
GOOD HOUSEKEEPING
A-ONLY STORE ENOUGH PRODUCT(S) REQUIRED TO COMPLETE THE JOB.
B-MATERIALS ON-SITE SHOULD BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE UNDER A ROOF OR OTHER TYPE OF ENCLOSURE.
C-PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER'S LABEL.
D-MATERIALS WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
E-WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED BEFORE DISPOSING OF THE CONTAINER.
F-MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
G-THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.

PETROLEUM-BASED PRODUCTS - ITEM 28
CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS OR SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER 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 INTO 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 - ITEM 25
NO CONCRETE TRUCK WILL BE ALLOWED TO WASH OUT OR DISCHARGE CONCRETE OR DRUM WASH WATER ON-SITE.
WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES IS ALLOWED ONLY IN DESIGNATED AREA. SEE SHT.12 FOR DETAIL DRAWING OF BMP.

FERTILIZERS/HERBICIDES
FERTILIZERS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP PROTECTION HANDBOOK FOR THE GSWC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALABLE CONTAINERS.

BUILDING MATERIALS & BUILDING PRODUCTS - ITEM 27
ALL BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSAL OF IN PROPER WASTE DISPOSAL PROCEDURES.

ALL BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS ON SITE SHALL BE COVERED BY PLASTIC SHEETING, TARPS OR TEMPORARY ROOFS TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.

SPILL CLEANUP AND CONTROL PRACTICES (SPCC)

- A-LOCAL STATE OR MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED, AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS.
- B-ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- C-THE SPILL PREVENTION PLAN WILL BE REVIEWED AFTER A SPILL AND ADJUSTED TO INCLUDE MEASURES TO PREVENT FUTURE SPILLS.
- D-FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON THE SURFACE), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HRS AT 800-426-2675.
- E-FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER WILL BE CONTACTED WITHIN 24 HRS AT 800-426-2675.
- F-FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, CONTACT THE GEORGIA EPD WITHIN 24 HRS AT 404-426-2675.
- G-FOR SPILLS LESSER 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 DESIGN PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON SITE(HS 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 PREPARED BY THAT DESIGN PROFESSIONAL.

HAZARDOUS WASTE
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSAL OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS) 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 THE PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPC FILE AT THE JOB SITE.
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 AND CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPC AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTE WILL BE ALLOWED TO REMAIN IN CONTACT WITH THE STORMWATER DISCHARGE. 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 SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTE
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 COMPLIANCE WITH LOCAL AND STATE 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 BAYS OR SPECIALIZED PLASTIC SOD CONTAINERS AROUND THE UNIT TO PREVENT WASTE FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE ESPC INTERMEDIATE PHASE SHEETS 7-8 OR 13 BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

SANITARY SEWER WILL BE PROVIDED BY INDIVIDUAL SEPTIC SYSTEMS AT THE COMPLETION OF THIS PROJECT.

MEASURES INSTALLED TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED - ITEM 28
POLLUTANTS WILL FILTER BY SHEET FLOW THROUGH PERMANENT VEGETATIVE MEASURES ESTABLISHED DURING STABILIZATION OF THE ROAD AND CONSTRUCTION OF HOME SITES. STORM WATER COVERED BY THE ROADWAY WILL BE ROUTED THROUGH STABILIZED CHANNELS TO SEDIMENT BASINS AND OTHER SEDIMENT STORAGE STRUCTURES. STORM WATER FROM HOME SITES WILL SHEET FLOW ALONG EXISTING CONTIGUOUS FILTERING THROUGH UNDISTURBED VEGETATION BEFORE REACHING ESTABLISHED CHANNELS.

SAMPLING METHODOLOGY - GARI00001 PART IV.D.6.b - ITEM 34

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 STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.
1. SAMPLING 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 STORMWATER OUTFALL CHANNEL(S).
4. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
5. MANUAL AUTOMATIC OR BUSHING STAGE SAMPLING MAY BE UTILIZED UNDER 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 KEPT OPEN AND THE OPENING FACES UPSTREAM. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS, AND CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

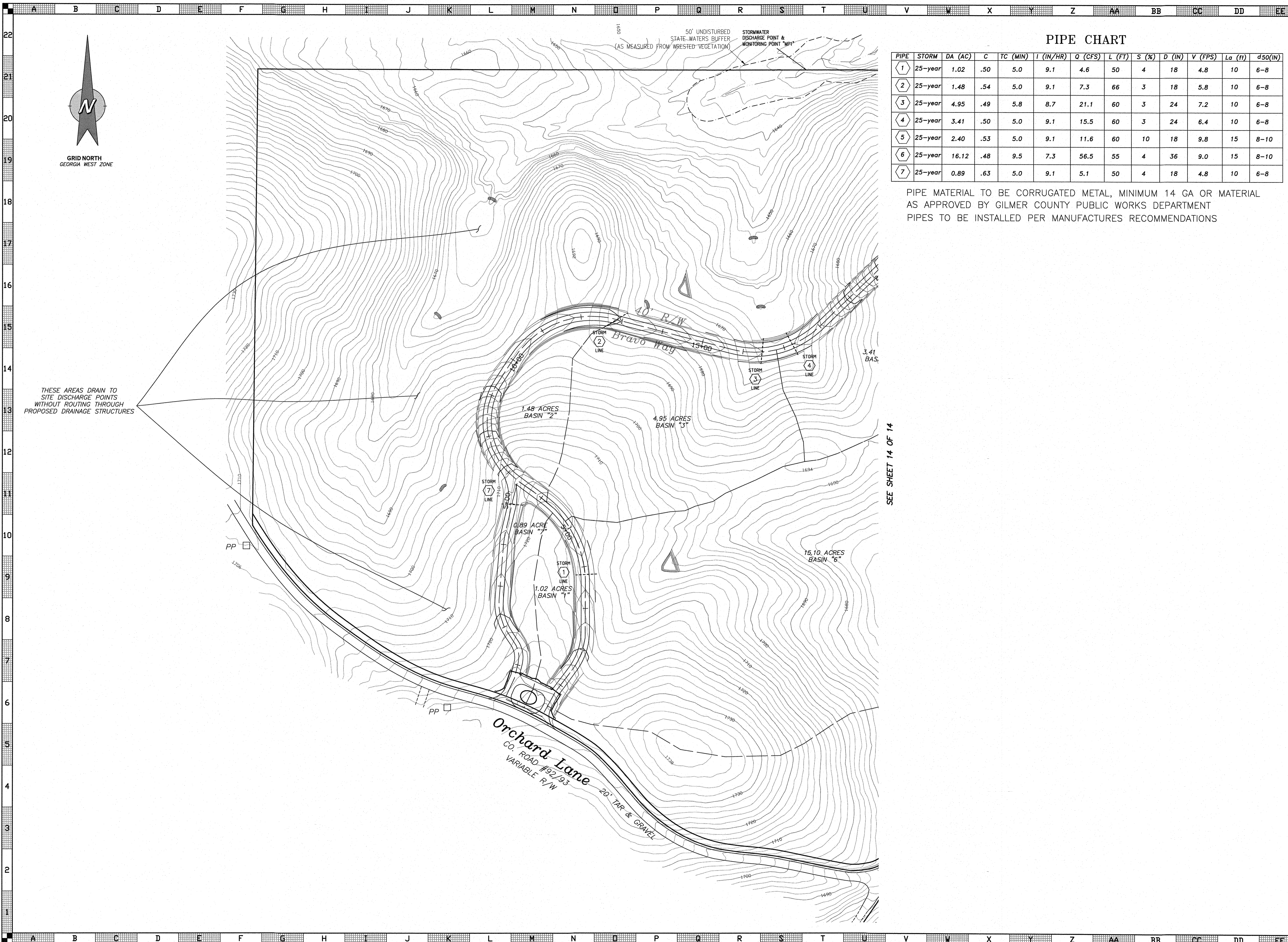
7. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN AT THE DISCHARGE FARTHEST UPSTREAM AT THE SITE BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM AREAS OF THE RECEIVING WATER(S) MAY NEED TO 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 STORMWATER 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 SHEET FLOW 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 BELOW THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E OF THE PERMIT.

ITEM 35
PROJECT HAS 1 OUTFALL (STREAM ORIGINATES ON SITE MP-1) RECEIVING WATERS UN-NAMED TRIBUTARY CLEAR CREEK C 5 SO. MILES DRAINAGE 20 NTU) MP2 & MP3 SHT. 9-10, RECEIVING STREAM TO BE SAMPLAS DETERMINED ON N.O.I BASED ON STREAM CLASSIFIED AS TROUT SURFACE (10A)TU)

- 1. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE OF:
(a) THE BEGINNING OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER OR TO AN OUTFALL CHANNEL IS NOT IMPROVED BY A WATER CURTAIN PRIOR TO THE DISCHARGE.
(b) THE ACCUMULATION OF ANY STORMWATER 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. WHERE MATERIALS ARE STORED OR HANDLED AND ARE NOT IMPROVED (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 STORMWATER DISCHARGE.
*NORMAL BUSINESS HOURS, AS DEFINED BY THE PERMIT, ARE MONDAY THROUGH FRIDAY, 8:00AM TO 5:00 PM AND SATURDAY 8:00AM TO 5:00PM
3. SAMPLING SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM:
(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 (a) ABOVE.
(b) 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 (a) ABOVE.

WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PERMITTEE:
1. IF 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.
(a) IF BMP'S 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 TURBIDITY DETERIORATION IS STOPPED.
(b) EXISTING CONSTRUCTION ACTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLE REQUIREMENTS IN (c) ABOVE SHALL REMAIN IN PLACE. THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIREMENTS TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.
*THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (c) AND (d) ABOVE 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 SUPERVISION.
2. IS TO BE TAKEN AT THE OUTFALL LOCATION SPECIFIED AS MP-1 AND MP-2 ON SHEET 05.

INSPECTIONS - ITEM 31
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, (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING, AND (C) MEASURED RAINFALL ONCE EACH 24 HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
2-CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR



PIPE CHART

PIPE	STORM	DA (AC)	C	TC (MIN)	I (IN/HR)	Q (CFS)	L (FT)	S (%)	D (IN)	V (FPS)	La (ft)	d50(IN)
1	25-year	1.02	.50	5.0	9.1	4.6	50	4	18	4.8	10	6-8
2	25-year	1.48	.54	5.0	9.1	7.3	66	3	18	5.8	10	6-8
3	25-year	4.95	.49	5.8	8.7	21.1	60	3	24	7.2	10	6-8
4	25-year	3.41	.50	5.0	9.1	15.5	60	3	24	6.4	10	6-8
5	25-year	2.40	.53	5.0	9.1	11.6	60	10	18	9.8	15	8-10
6	25-year	16.12	.48	9.5	7.3	56.5	55	4	36	9.0	15	8-10
7	25-year	0.89	.63	5.0	9.1	5.1	50	4	18	4.8	10	6-8

PIPE MATERIAL TO BE CORRUGATED METAL, MINIMUM 14 GA OR MATERIAL AS APPROVED BY GILMER COUNTY PUBLIC WORKS DEPARTMENT
PIPES TO BE INSTALLED PER MANUFACTURES RECOMMENDATIONS

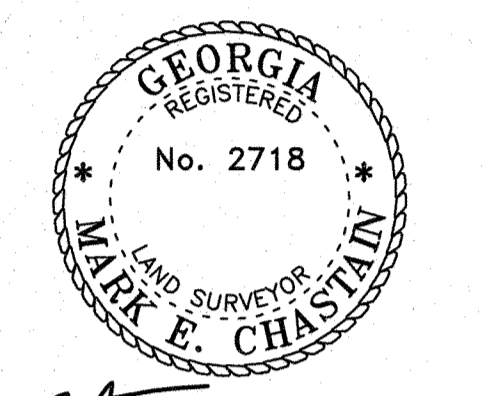
HYDROLOGY MAP
PREPARED FOR

Bravo Estates

LAND LOTS 307 & 308
11th DISTRICT, 2nd SECTION
AND
LAND LOT 289
12th DISTRICT, 2nd SECTION
GILMER COUNTY, GEORGIA

DATE: FEBRUARY 7, 2022

REVISIONS:
DATE COMMENT



3-16-2022
LEVEL II CERTIFICATION
NUMBER 17322

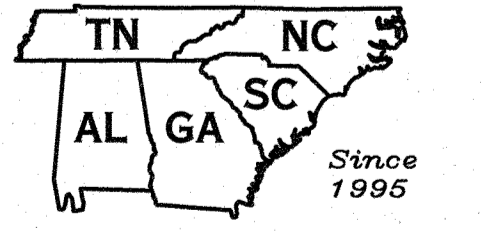
LEGEND

- IRON PIN FOUND
- IRON PIN SET
- △ NO MONUMENT
- ROCK
- MONUMENT
- FIRE HYDRANT
- UTILITY POLE
- WATER METER
- WATER VALVE
- GAS METER
- GAS VALVE
- POWER BOX
- SEWER INLET
- STORM MH
- SEWER MH
- LIGHT POLE
- LAND LOT LINE
- STREAM OR POND
- FENCE
- RIGHT OF WAY
- UG GAS LINE
- UG POWER
- UG WATER
- UG SEWER
- UG TELEPHONE
- STORM LINE
- R/R TRACKS
- EXIST. CONTOUR
- EXIST. INDEX CONTOUR
- PROP. CONTOUR
- PROP. INDEX CONTOUR
- ASPHALT
- CONCRETE
- GRAVEL

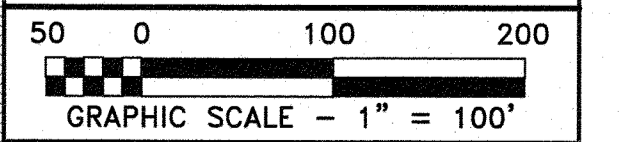
MONUMENT DIMENSIONS ARE OUTSIDE/OVERALL DIMENSIONS
ALL IPS ARE CAPPED 5/8" REBAR UNLESS OTHERWISE NOTED.
"Thou shalt not remove thy neighbor's landmark, which they of old time have set."
Deuteronomy 19:14 KJV

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IN GOD WE TRUST

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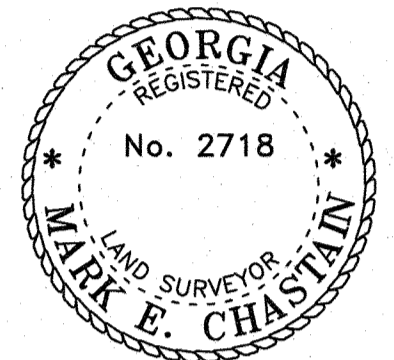
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NORTH CAROLINA LAND SURVEYING FIRM CA-3198
ALABAMA LAND SURVEYING FIRM CA-852-LS
SOUTH CAROLINA SURVEYING FIRM CCA No. 5205



Bravo Estates

LAND LOTS 307 & 308
11th DISTRICT, 2nd SECTION
AND
LAND LOT 289
12th DISTRICT, 2nd SECTION
GILMER COUNTY, GEORGIA
DATE: FEBRUARY 7, 2022

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LEGEND

○	IRON PIN FOUND	□	FIRE HYDRANT	□	POWER BOX
●	(IPS) IRON PIN SET	○	UTILITY POLE	○	UTILITY RESTRICTION
△	NO MONUMENT	⊠	WATER METER	⊠	DRAIN INLET
■	ROCK	⊠	WATER VALVE	⊠	STORM MH
⊠	MONUMENT	⊠	GAS METER	⊠	SEWER MH
⊠	MONUMENT	⊠	GAS VALVE	⊠	LIGHT POLE
P.O.B.	POINT OF BEGINNING	---	LAND LOT LINE	---	STREAM OR POND
P/L	PROPERTY LINE	---	EXIST. CONTOUR	---	R/R TRACKS
C/L	CENTERLINE	---	CONCRETE	---	EXIST. CONTOUR
---	CENTERLINE	---	GRAVEL	---	PROP. CONTOUR
W/F	NOW OR FORMERLY DEED BOOK/PAGE	---	CONCRETE	---	PROP. CONTOUR
PB/pg	PLAT BOOK/PAGE	---	GRAVEL	---	PROP. CONTOUR
PP	UTILITY POLE	---	CONCRETE	---	PROP. CONTOUR
R/P	REWORKED CONC. PIPE	---	GRAVEL	---	PROP. CONTOUR
CMP	CORROGATED METAL PIPE	---	CONCRETE	---	PROP. CONTOUR
CPP	CORROGATED PLASTIC PIPE	---	GRAVEL	---	PROP. CONTOUR
---	ASPHALT	---	CONCRETE	---	PROP. CONTOUR
---	CONCRETE	---	GRAVEL	---	PROP. CONTOUR

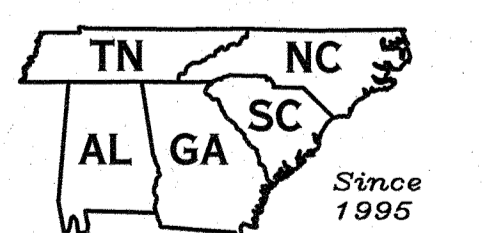
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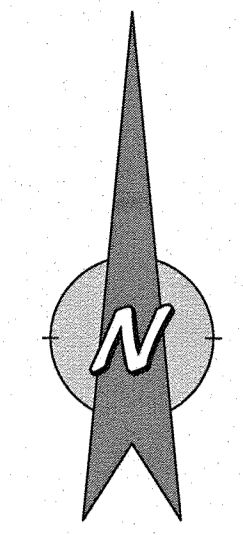
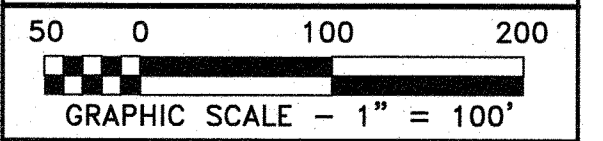
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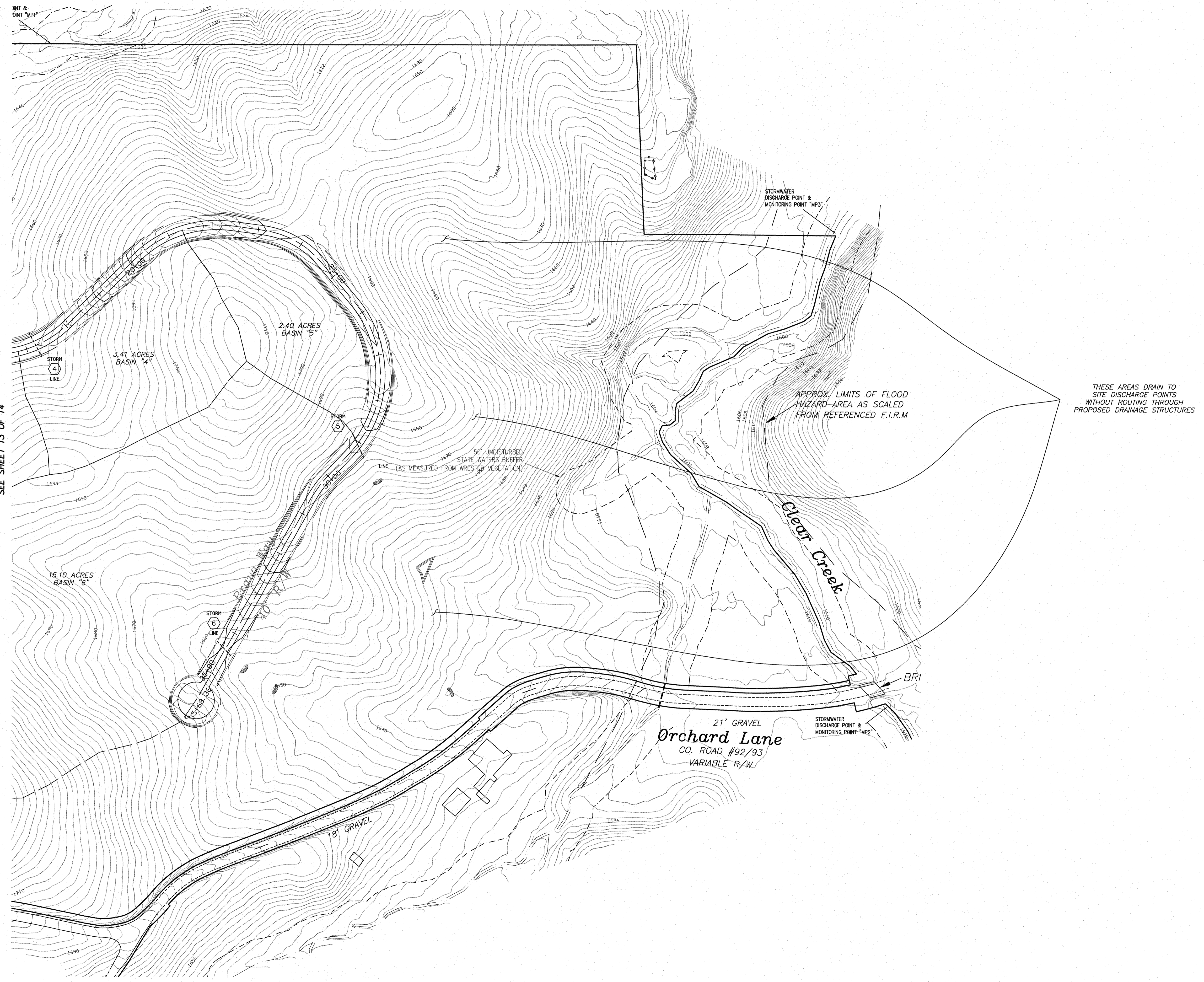


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SOUTH CAROLINA SURVEYING FIRM CDA No. 3265



GRID NORTH
GEORGIA WEST ZONE

SEE SHEET 13 OF 14



THESE AREAS DRAIN TO
SITE DISCHARGE POINTS
WITHOUT ROUTING THROUGH
PROPOSED DRAINAGE STRUCTURES

21' GRAVEL
Orchard Lane
CO. ROAD #92/93
VARIABLE R/W

18' GRAVEL

STORMWATER
DISCHARGE POINT &
MONITORING POINT "MP3"

APPROX. LIMITS OF FLOOD
HAZARD AREA AS SCALED
FROM REFERENCED F.I.R.M.

50' UNDISTURBED
STATE WATERS BUFFER
LINE (AS MEASURED FROM WRESTED VEGETATION)

Clear Creek

BRI

STORMWATER
DISCHARGE POINT &
MONITORING POINT "MP2"

JNT &
DNT "MP1"

STORM
LINE

3.41 ACRES
BASIN "4"

2.40 ACRES
BASIN "5"

15.10 ACRES
BASIN "6"

40' R/W

STORM
LINE

STORM
LINE

STORM
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