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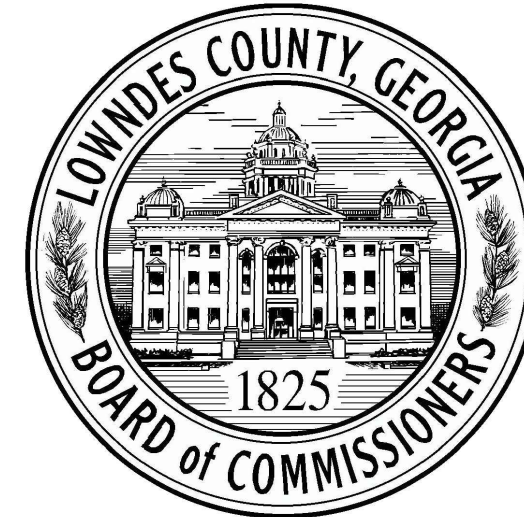
**CONTRACTOR SHALL SCHEDULE AN  
 EROSION CONTROL INSPECTION WITH THE  
 DESIGN PROFESSIONAL WITHIN 7 DAYS OF  
 BEGINNING CONSTRUCTION.**

NOT FOR CONSTRUCTION UNLESS SIGNED BY CITY  
 ENGINEER OR AUTHORIZED REPRESENTATIVE.

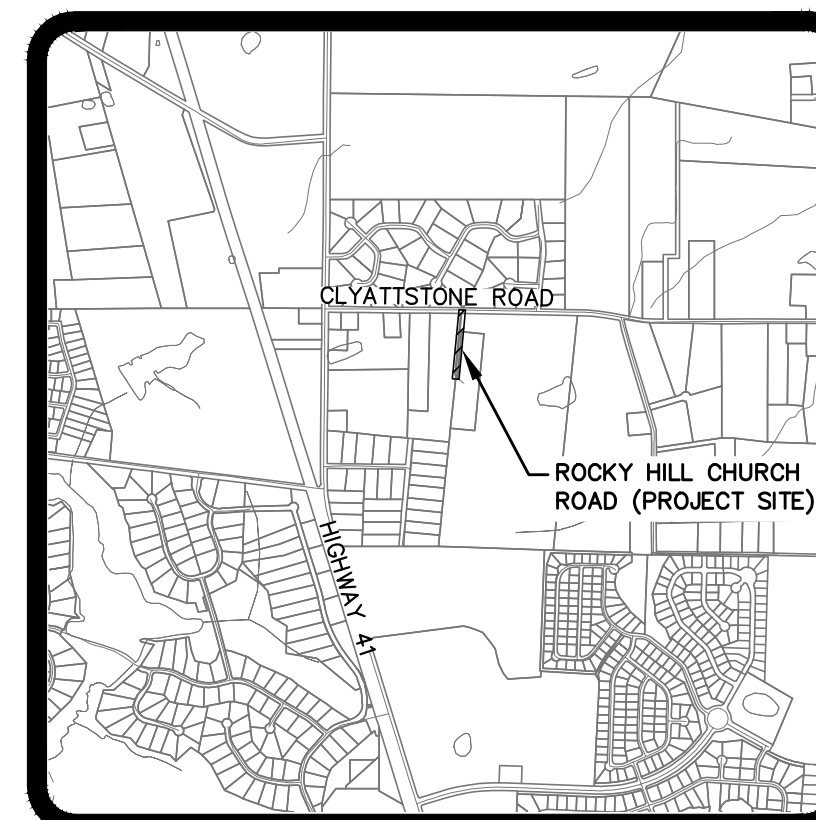
SIGNED \_\_\_\_\_  
 DATE \_\_\_\_\_

# ROCKY HILL CHURCH ROAD

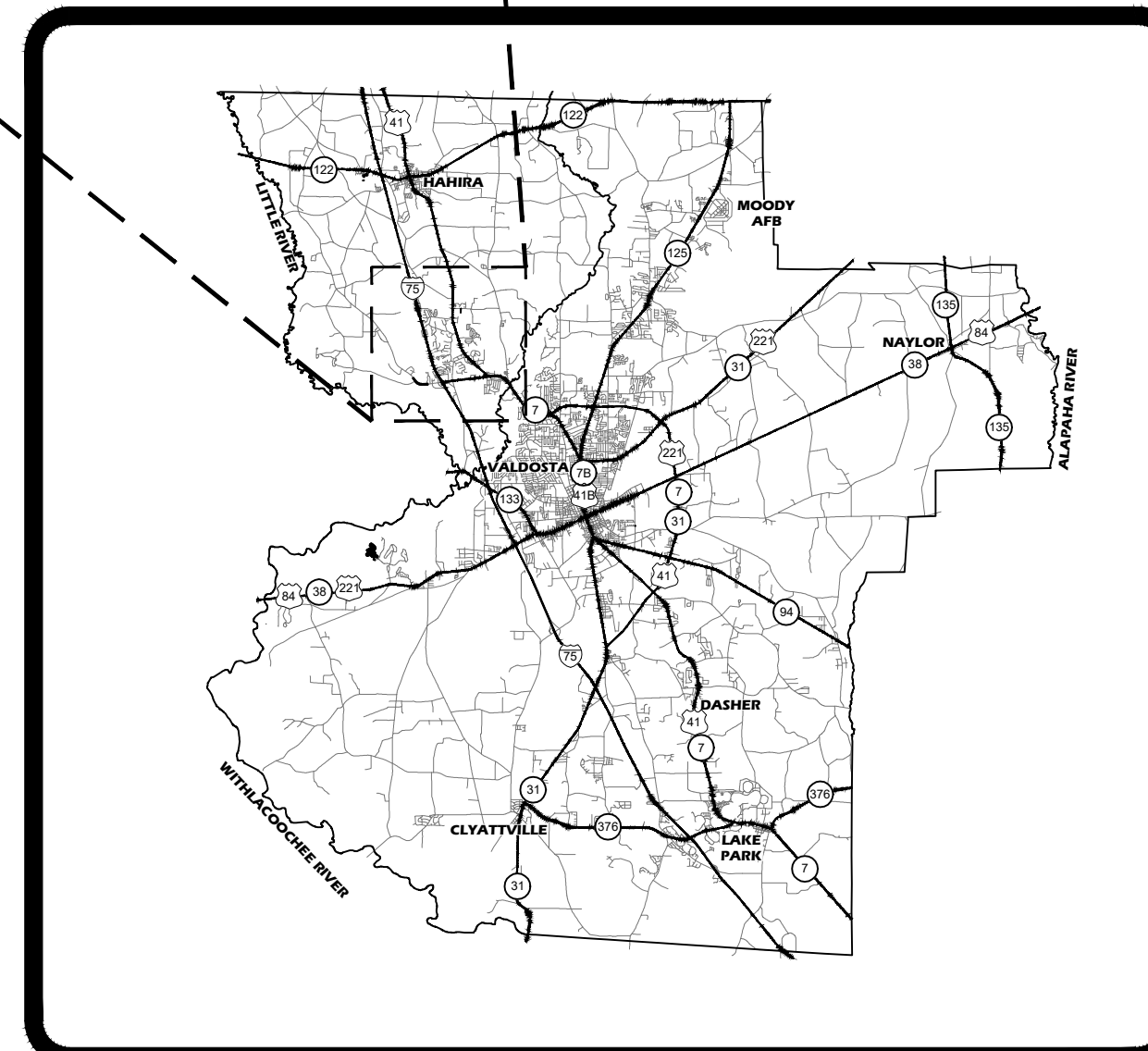
FOR



**LEA PROJECT NUMBER 0010-131  
 SUBMITTAL DATE: APRIL 4, 2023  
 LOWNDES COUNTY, GEORGIA**



1" = 1,000'



**LOCATION MAP  
 N.T.S.**

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**ROCKY HILL  
 CHURCH ROAD**  
 LAND LOT 38 OF THE 12TH LAND DISTRICT  
 LOWNDES COUNTY - STATE OF GEORGIA

REVISIONS	
DATE	DESCRIPTION



Know what's below.  
 Call before you dig.  
**IF YOU DIG GEORGIA...  
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SCALE: N.T.S.

DESIGNED BY: TJH

CHECKED BY: MCM

SUBMITTAL DATE: 4-11-2023

JOB NO. 0010-131

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**COVER**

**G-1**

1 OF 11 SHEETS



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# EROSION CONTROL NOTES

EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR WHERE DETERMINED NECESSARY BY LOCAL AUTHORITIES OR THE ENGINEER BASED UPON ACTUAL SITE CONDITIONS.

EROSION CONTROL MEASURES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE DRAINAGE PATTERNS SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION.

IF FINES OR PENALTIES ARE LEVIED AGAINST THE PROPERTY OR THE PROPERTY OWNER BECAUSE OF A LACK OF EROSION OR SEDIMENTATION CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF SUCH FINES OR PENALTIES, OR THE COST OF SUCH FINES OR PENALTIES SHALL BE DEDUCTED FROM THE CONTRACT AMOUNT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. STORM DRAINAGE SYSTEMS SHALL BE KEPT CLEAN AND FREE OF SILT AND DEBRIS.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY MARKED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE MARKED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO DISTURBANCE ACTIVITY SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE PLANS.

THE CONSTRUCTION OF THE SITE WILL INITIATE WITH INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS AND/OR PARKING AREAS HAVE BEEN PAVED.

THE CONTRACTOR SHALL INSPECT AND REPAIR EROSION CONTROL MEASURES AT LEAST DAILY AND FOLLOWING EACH RAINFALL.

THE CONTRACTOR SHALL NOT ALLOW SILT TO ACCUMULATE IN SILT FENCE ABOVE ONE-HALF OF THE ORIGINAL HEIGHT OF THE SILT FENCE. THE CONTRACTOR SHALL REMOVE SILT AS NEEDED TO PREVENT EXCESS ACCUMULATION.

ALL AREAS TO BE PAVED SHALL BE STABILIZED WITH BASE MATERIAL AS SOON AS PRACTICAL. TEMPORARY VEGETATIVE STABILIZATION, OUTSIDE OF PAVED AREAS, SHALL BE PROVIDED IMMEDIATELY AFTER REACHING FINAL GRADE.

PERMANENT VEGETATION SHALL BE PROVIDED AT THE EARLIEST SUITABLE GROWING SEASON.

TEMPORARY MULCHING SHALL BE EMPLOYED TO PROTECT CRITICAL AREAS DURING CONSTRUCTION.

ALL TEMPORARY AND PERMANENT VEGETATION SPECIES TO BE APPROVED BY LOWNDES COUNTY ENGINEERING DEPARTMENT PRIOR TO APPLICATION.

# Ch CHANNEL STABILIZATION

## DEFINITION

IMPROVING, CONSTRUCTING OR STABILIZING AN OPEN CHANNEL FOR WATER CONVEYANCE.

## PURPOSE

OPEN CHANNELS ARE CONSTRUCTED OR STABILIZED TO BE NON-EROSIVE, WITH NO SEDIMENT DEPOSITION AND TO PROVIDE ADEQUATE CAPACITY FOR FLOOD WATER, DRAINAGE, OTHER WATER MANAGEMENT PRACTICES, OR ANY COMBINATION THEREOF.

## CONDITIONS

THIS STANDARD APPLIES TO THE IMPROVEMENT, CONSTRUCTION OR STABILIZATION OF OPEN CHANNELS AND EXISTING DITCHES WITH DRAINAGE AREAS LESS THAN ONE SQUARE MILE. **THIS STANDARD APPLIES ONLY TO CHANNELS CONVEYING INTERMITTENT FLOW, NOT TO CHANNELS CONVEYING A CONTINUOUS, LIVE STREAM.**

## DESIGN CRITERIA

### VEGETATED LINING - CH-V

VEGETATED LINING SHALL BE DESIGNED TO RESIST EROSION WHEN THE CHANNEL IS FLOWING AT THE BANKFULL DISCHARGE OR 25-YEAR FREQUENCY DISCHARGE, WHICHEVER IS THE LESSER. TEMPORARY EROSION CONTROL BLANKETS OR SOD SHALL BE USED ON ALL CHANNELS AND CONCENTRATED FLOW AREAS TO AID IN THE ESTABLISHMENT OF THE VEGETATED LINING. IF A VEGETATED LINING IS DESIRED IN A CHANNEL WITH VELOCITIES BETWEEN 5-10 FT/SEC, PERMANENT SOIL REINFORCEMENT SHALL BE USED.

## SPECIFICATIONS

- WHERE NEEDED, ALL TREES, BRUSH, STUMPS AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED SO THEY WILL NOT INTERFERE WITH THE CONSTRUCTION OR PROPER FUNCTIONING OF THE CHANNEL.
- WHERE POSSIBLE, TREES WILL BE LEFT STANDING, AND STUMPS WILL NOT BE REMOVED.
- EXCAVATION SHALL BE AT THE LOCATIONS AND GRADES SHOWN ON THE DRAWINGS.
- THE GEOTEXTILE SHALL BE PLACED ON A SMOOTH GRADED SURFACE. THE GEOTEXTILE SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT EXCESSIVELY STRETCH OR TEAR UPON PLACEMENT OF THE OVERLYING MATERIALS. CARE SHOULD BE TAKEN TO PLACE THE GEOTEXTILE IN INTIMATE CONTACT WITH THE SOIL SUCH THAT NO VOID SPACES EXIST BETWEEN THE UNDERLYING SOIL AND THE GEOTEXTILE.

- CONSTRUCTION PLANS WILL SPECIFICALLY DETAIL LOCATION AND HANDLING OF SPOILS. SPOIL MATERIAL RESULTING FROM CLEARING, GRUBBING AND CHANNEL EXCAVATION SHALL BE DISPOSED OF IN A MANNER WHICH WILL:
  - NOT CAUSE AN INCREASE IN FLOOD STAGE,
  - MINIMIZE OVERBANK WASH,
  - NOT CAUSE AN ADVERSE EFFECT ON THE ENVIRONMENTAL INTEGRITY OF THE AREA,
- PROVIDE FOR THE FREE FLOW OF WATER BETWEEN THE CHANNEL AND FLOOD PLAIN UNLESS THE VALLEY ROUTING AND WATER SURFACE PROFILE ARE BASED ON CONTINUOUS DIKES BEING INSTALLED,
- LEAVE THE RIGHT-OF-WAY IN THE BEST CONDITIONS FEASIBLE, AND
- IMPROVE THE AESTHETIC APPEARANCE OF THE SITE TO THE EXTENT FEASIBLE.
- CHANNEL LININGS SHALL BE ESTABLISHED OR INSTALLED IMMEDIATELY AFTER CONSTRUCTION OR AS SOON AS WEATHER CONDITIONS PERMIT. STRUCTURES SHALL BE INSTALLED ACCORDING TO LINES AND GRADES SHOWN ON THE PLAN. THE FOUNDATION FOR STRUCTURES SHALL BE CLEARED OF ALL UNDESIRABLE MATERIALS PRIOR TO THE INSTALLATION OF THE STRUCTURES.
- MATERIALS USED IN CONSTRUCTION SHALL BE OF PERMANENCY COMMENSURATE WITH THE DESIGN FREQUENCY AND LIFE EXPECTANCY OF THE FACILITY.
- EARTHFILL, WHEN USED AS A PART OF THE STRUCTURES, SHALL BE PLACED ACCORDING TO THE INSTALLATION REQUIREMENTS FOR SEDIMENT BASIN EMBANKMENTS.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT SHALL BE COMPLIED WITH.
- VEGETATION SHALL BE ESTABLISHED ON ALL DISTURBED AREAS IMMEDIATELY AFTER CONSTRUCTION. IF WEATHER CONDITIONS CAUSE A DELAY IN ESTABLISHING VEGETATION, THE AREA SHALL BE MULCHED IN ACCORDANCE WITH THE STANDARD FOR MULCHING. SEEDING, FERTILIZING AND MULCHING SHALL CONFORM TO THE STANDARDS FOR PERMANENT VEGETATIVE COVER.
- ALL TEMPORARY ACCESS ROADS OR TRAVELWAYS SHALL BE APPROPRIATELY CLOSED TO EXCLUDE TRAFFIC.
- TREES AND OTHER FALLEN NATURAL VEGETATION NOT CAUSING A DETERRENT TO STREAM FLOW SHOULD BE LEFT FOR THE PURPOSE OF HABITAT.

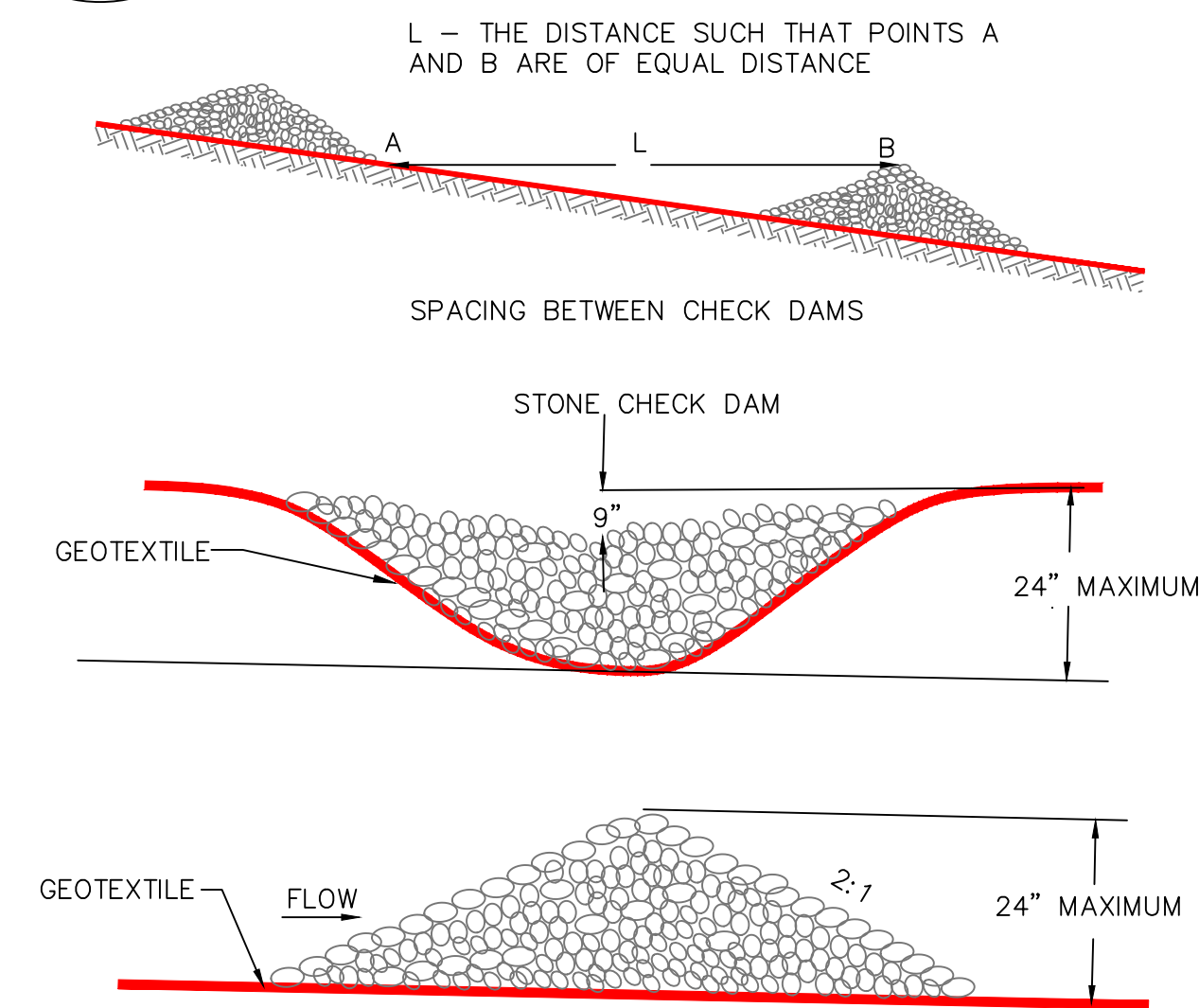
# STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES, THEREBY PROTECTING PUBLIC STREETS.
Cd	CHECK DAM			A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW.
Rt	RETROFITTING			A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.
Sd1	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, GRAVEL, OR A SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.
Sd2	SEDIMENT TRAP, TEMPORARY			AN IMPOUNDING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN DROP INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITIES.
Sd3	SEDIMENT BASIN, TEMPORARY			A BASIN CREATED BY EXCAVATION OR A DAM ACROSS A WATERWAY. THE SURFACE WATER RUN-OFF IS TEMPORARILY STORED ALLOWING THE BULK OF THE SEDIMENT TO DROP OUT. THE BASIN IS USUALLY TEMPORARY BUT MAY BE DESIGNED AS A PERMANENT POND OR STORMWATER RETENTION DEVICE.
St	STORM DRAIN INLET/OUTLET PROTECTION			A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
Tp	TOPSOILING			THE PRACTICE OF STRIPPING OFF THE MORE FERTILE TOP SOIL, STORING IT, THEN SPREADING IT OVER THE DISTURBED AREA AFTER THE COMPLETION OF CONSTRUCTION ACTIVITIES.
Di	DIVERSION			TO INTERCEPT STORMWATER RUNOFF AND DIVERT IT TO A STABLE OUTLET
Fr	FILTER RING			A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS
Sk	FLOATING SURFACE SKIMMER			A BUOYANT DEVICE THAT RELEASES/DRAINS WATER FROM THE SURFACE OF SEDIMENT PONDS, TRAPS, OR BASINS AT A CONTROLLED RATE OF FLOW.

# VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDLINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)			ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDLINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)			ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD OR LEGUMES ON DISTURBED AREAS.
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)			A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR VERTICALLY ERODED LANDS.
Du	DUST CONTROL ON DISTURBED AREAS			CONTROLLING SURFACE AND AIR MOVEMENTS OF DUST ON CONSTRUCTION SITES, ROADWAYS AND SIMILAR SITES.
Pm	POLYACRYLAMIDE	TO BE USED ONLY WHERE STORM WATER RUNOFF IS DIRECTED TO A DETENTION POND.		THE LAND APPLICATION OF PRODUCT CONTAINING ANIONIC POLYACRYLAMIDE (PAM) AS TEMPORARY SOIL BINDING AGENTS TO REDUCE SOIL EROSION.
Mb	DISTURBED AREA STABILIZATION (WITH MATTING)			A PROTECTIVE COVERING (BLANKET) OR SOIL STABILIZATION MAT USED TO ESTABLISH PERMANENT VEGETATION ON STEEP SLOPES, CHANNELS, OR SHORELINES.

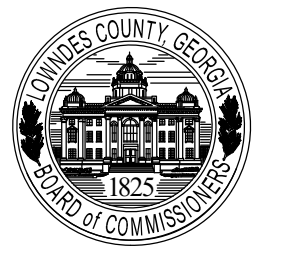
## Cd-S CHECKDAM W/ STONE



- NOTES:
- CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
  - THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
  - THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
  - THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
  - THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
  - GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).



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**ROCKY HILL CHURCH ROAD**  
 LAND LOT 38 OF THE 12TH LAND DISTRICT  
 LOWNDES COUNTY - STATE OF GEORGIA

## REVISIONS

DATE	DESCRIPTION

SCALE: N.T.S.

DESIGNED BY: TJH

CHECKED BY: MCM

SUBMITTAL DATE: 4-11-2023

JOB NO. 0010-131

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ESPC DETAILS  
 (1 OF 3)

**G-3**

3 OF 11 SHEETS

Co

### CONSTRUCTION EXIT

N.T.S.

#### NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

#### DEFINITION

A STONE STABILIZED PAD LOCATED AT ANY POINT WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK OR PARKING AREA OR ANY OTHER AREA WHERE THERE IS A TRANSITION FROM BARE SOIL TO A PAVED AREA.

#### PURPOSE

TO REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION AREA ONTO PUBLIC RIGHTS-OF-WAY BY MOTOR VEHICLES OR BY RUNOFF.

#### CONDITIONS

THIS PRACTICE IS APPLIED AT APPROPRIATE POINTS OF CONSTRUCTION EGRESS. GEOTEXTILE UNDERLINERS ARE REQUIRED TO STABILIZE AND SUPPORT THE PAD AGGREGATES.

#### CONSTRUCTION SPECIFICATIONS

**AGGREGATE SIZE:** WILL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5 TO 3.5 INCH STONE).

**PAD THICKNESS:** 6-INCH MINIMUM.

**PAD WIDTH:** AT A MINIMUM, SHOULD EQUAL FULL WIDTH OF ALL POINTS OF VEHICULAR EGRESS, BUT NOT LESS THAN 20 FEET WIDE.

**WASHING:** IF THE ACTION OF VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD, THE TIRES SHOULD BE WASHED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

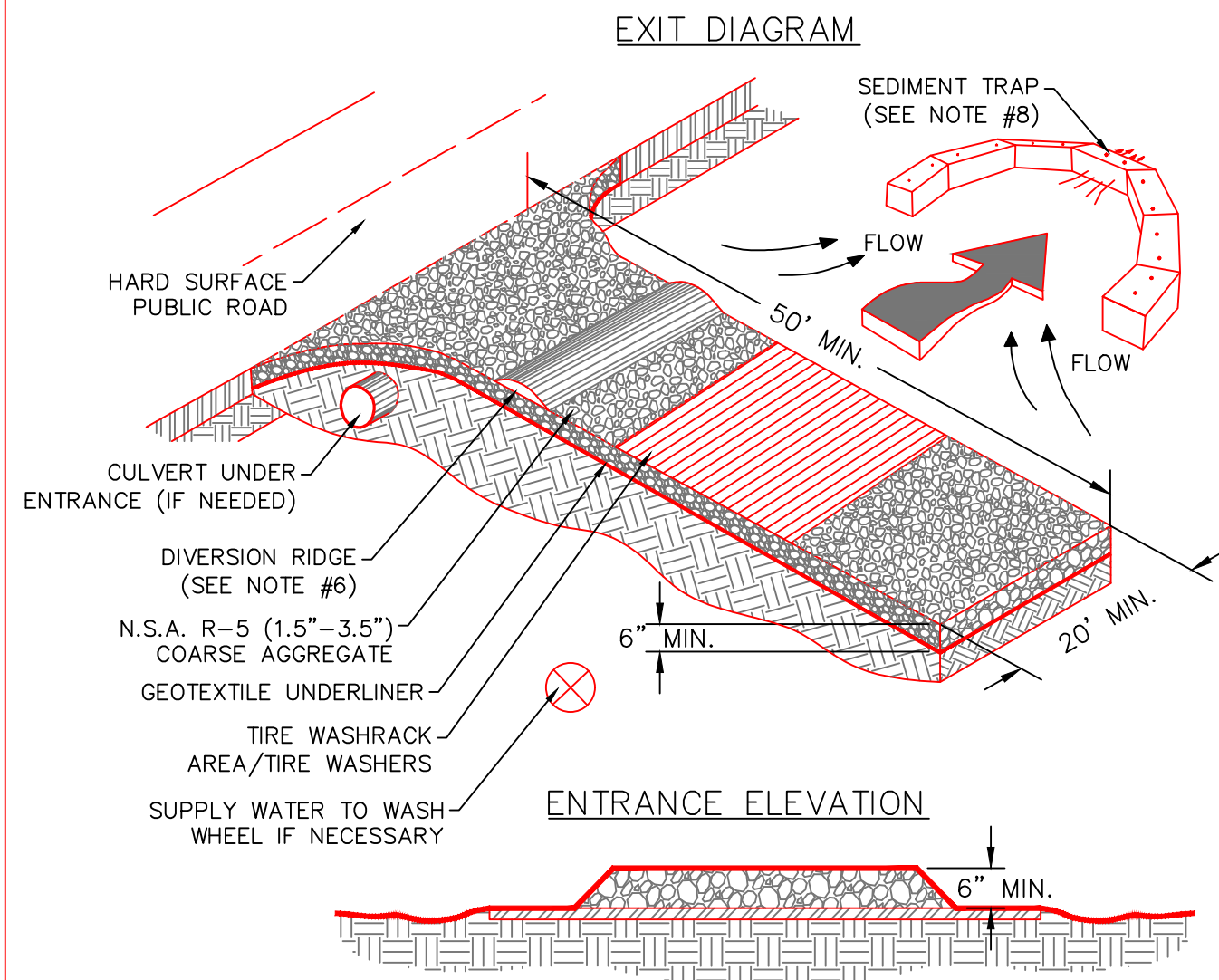
**LOCATION:** THE EXIT SHALL BE LOCATED OR PROTECTED TO PREVENT SEDIMENT FROM LEAVING THE SITE.

**GEOTEXTILE:** THE GEOTEXTILE UNDERLINER MUST BE PLACED THE FULL LENGTH AND WIDTH OF THE ENTRANCE. GEOTEXTILE SELECTION SHALL BE BASED ON AASHTO M288-98 SPECIFICATION:

1. FOR SUBGRADES WITH A CBR GREATER THAN OR EQUAL TO 3 OR SHEAR STRENGTH GREATER THAN 90 KPA, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288-96 SECTION 7.3, SEPARATION REQUIREMENTS.
2. FOR SUBGRADES WITH A CBR BETWEEN 1 AND 3 OR SHEAR STRENGTH BETWEEN 30 AND 90 KPA, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288-96 SECTION 7.4, SEPARATION REQUIREMENTS.

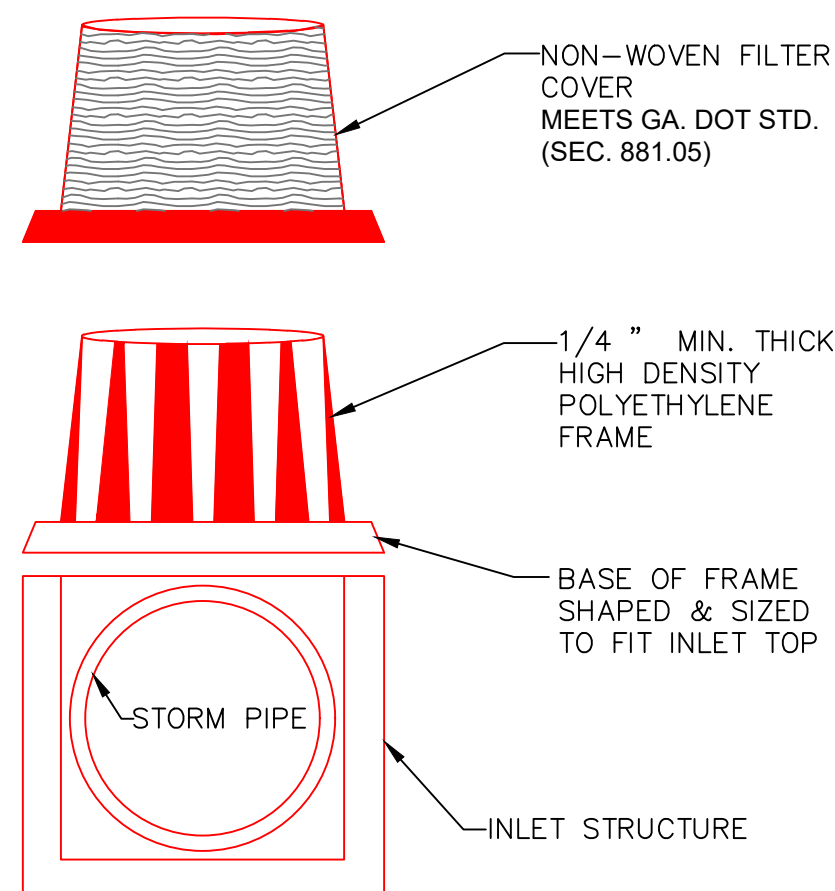
#### MAINTENANCE

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5 TO 3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.



### Sd2 INLET PROTECTION

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.



#### DEFINITION

A TEMPORARY PROTECTIVE DEVICE FORMED AROUND A STORM DRAIN DROP INLET TO TRAP SEDIMENT.

#### PURPOSE

TO PREVENT SEDIMENT FROM LEAVING THE SITE, OR FROM ENTERING STORM DRAINAGE SYSTEMS, PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.

#### CONDITIONS

SEDIMENT TRAPS SHOULD BE INSTALLED AT OR AROUND ALL STORM DRAIN DROP INLETS THAT RECEIVE RUNOFF FROM DISTURBED AREAS.

#### CONSTRUCTION SPECIFICATIONS

MANY SEDIMENT FILTERING DEVICES CAN BE DESIGNED TO SERVE AS TEMPORARY SEDIMENT TRAPS. WHERE EXCAVATION IS TO BE USED, IT SHALL BE DONE IN COMBINATION WITH A SEDIMENT FILTER SUCH AS STONE OR SILT FENCE. ALL EXCAVATED SEDIMENT TRAPS SHOULD PROVIDE A MINIMUM OF 1.5 FEET OF SEDIMENT STORAGE. SEDIMENT TRAPS MUST BE SELF-DRAINING UNLESS THEY ARE OTHERWISE PROTECTED IN AN APPROVED FASHION THAT WILL NOT PRESENT A SAFETY HAZARD.

SEDIMENT TRAPS MAY BE CONSTRUCTED ON NATURAL GROUND SURFACE, ON AN EXCAVATED SURFACE, OR ON MACHINE COMPACTED FILL PROVIDED THEY HAVE A NON-ERODIBLE OUTLET.

#### MAINTENANCE

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY. FOR EXCAVATED INLET SEDIMENT TRAPS, SEDIMENT SHALL BE REMOVED WHEN ONE-HALF OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST TO SEDIMENT ACCUMULATION.

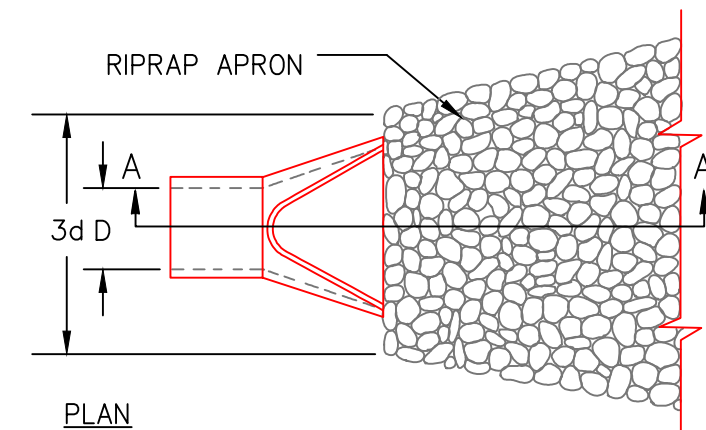
SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET AGAIN. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

St

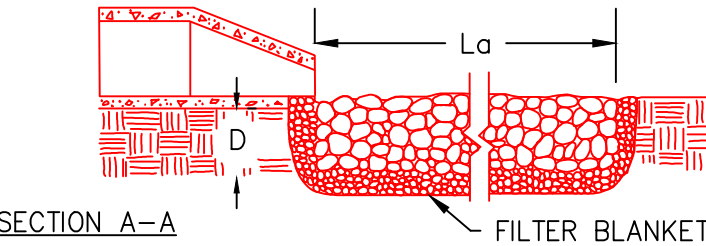
### STORM DRAIN OUTLET PROTECTION

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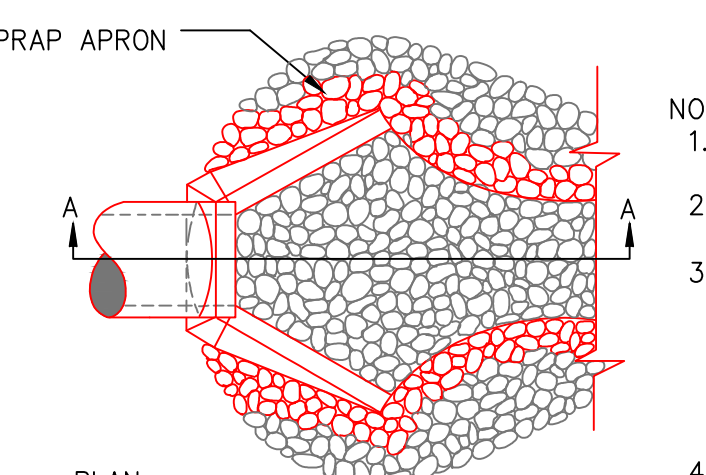
#### PIPE OUTLET



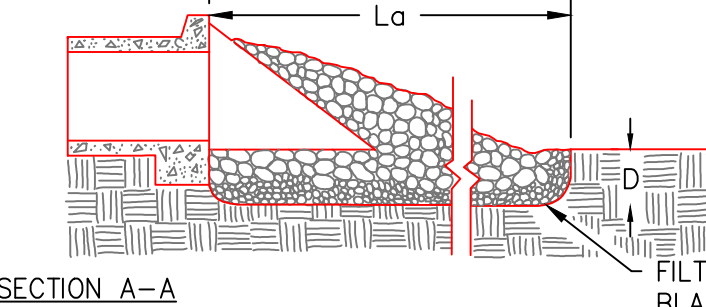
#### PLAN



#### PIPE OUTLET TO WELL DEFINED CHANNEL



#### PLAN



#### NOTES:

1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

#### DEFINITION

PAVED AND/OR RIPRAPPED CHANNEL SECTIONS, PLACED BELOW STORM DRAIN OUTLETS.

#### PURPOSE

TO REDUCE VELOCITY OF FLOW BEFORE ENTERING RECEIVING CHANNELS BELOW STORM DRAIN OUTLETS.

#### CONDITIONS

THIS STANDARD APPLIES TO ALL STORM DRAIN OUTLETS, ROAD CULVERTS, PAVED CHANNEL OUTLETS, ETC., DISCHARGING INTO NATURAL OR CONSTRUCTED CHANNELS. ANALYSIS AND/OR TREATMENT WILL EXTEND FROM THE END OF THE CONDUIT, CHANNEL OR STRUCTURE TO THE POINT OF ENTRY INTO AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM.

#### GEOTEXTILE

THE GEOTEXTILE SHALL BE SPECIFIED IN ACCORDANCE WITH AASHTO M288-96 SECTION 7.5. PERMANENT EROSION CONTROL RECOMMENDATIONS. THE GEOTEXTILE SHOULD BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS.

#### CONSTRUCTION SPECIFICATIONS

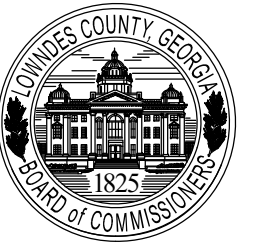
1. ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIPRAP THICKNESS.
2. THE RIPRAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS.
3. GEOTEXTILE MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER FABRIC OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FOOT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER FABRIC.
4. RIPRAP MAY BE PLACED BY EQUIPMENT, BUT TAKE CARE TO AVOID DAMAGING THE FILTER.
5. THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.
6. CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFALL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT.
7. ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.
8. IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.
9. STONE QUALITY - SELECT STONE FOR RIPRAP FROM FIELD STONE OR QUARRY STONE. THE STONE SHOULD BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT. THE SPECIFIC GRAVITY OF THE INDIVIDUAL STONES SHOULD BE AT LEAST 2.5.
10. FILTER - INSTALL A FILTER TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN THE RIPRAP. THE FILTER SHOULD CONSIST OF A GRADED GRAVEL LAYER OR A SYNTHETIC FILTER CLOTH.

#### MAINTENANCE

INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.



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**ROCKY HILL CHURCH ROAD**  
LAND LOT 38 OF THE 12TH LAND DISTRICT  
LOWNDES COUNTY, STATE OF GEORGIA

#### REVISIONS

DATE	DESCRIPTION

SCALE: N.T.S.

DESIGNED BY: TJH

CHECKED BY: MCM

SUBMITTAL DATE: 4-11-2023

JOB NO. 0010-131

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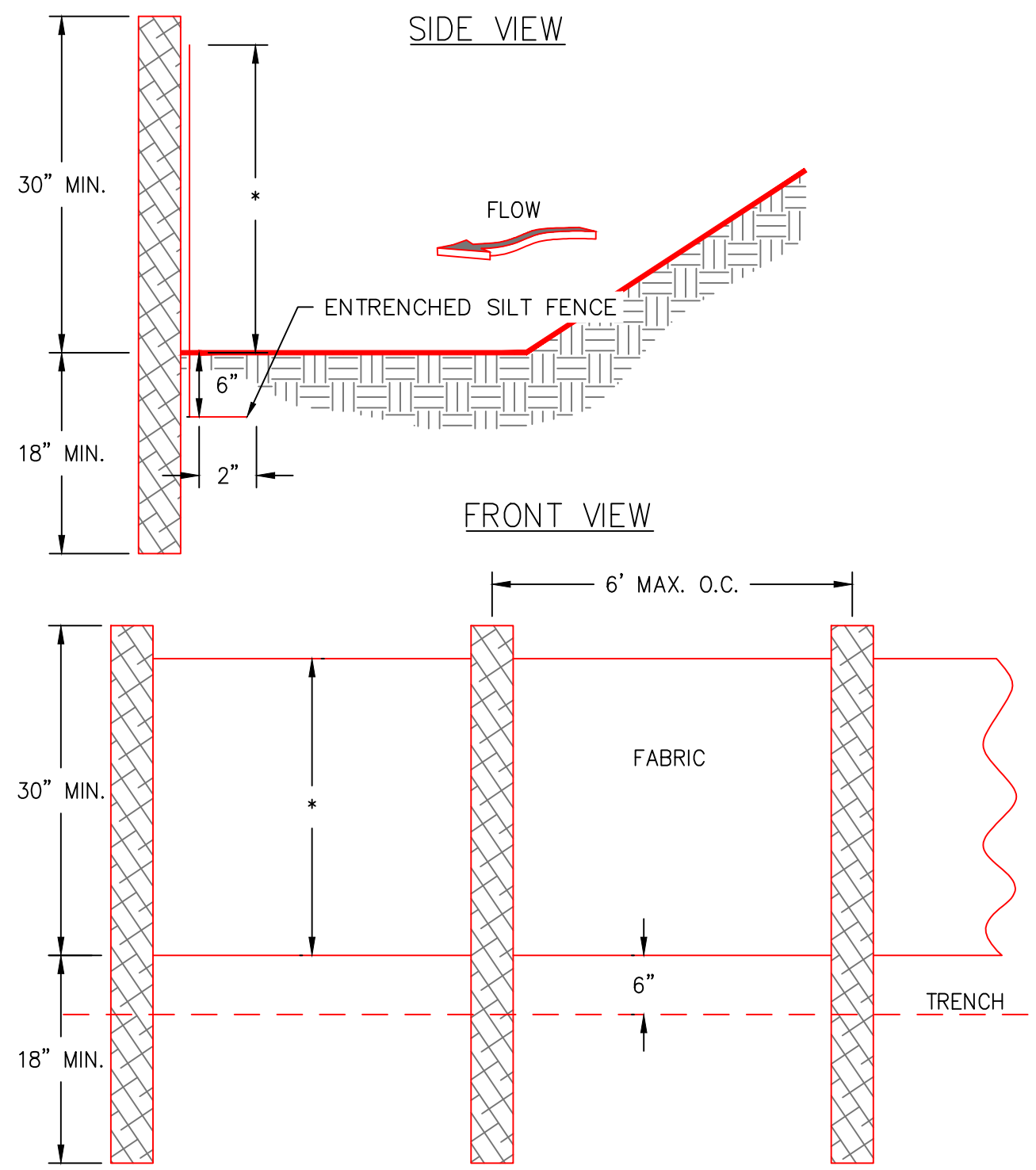
ESPC DETAILS (2 OF 3)

G-4

4 OF 11 SHEETS

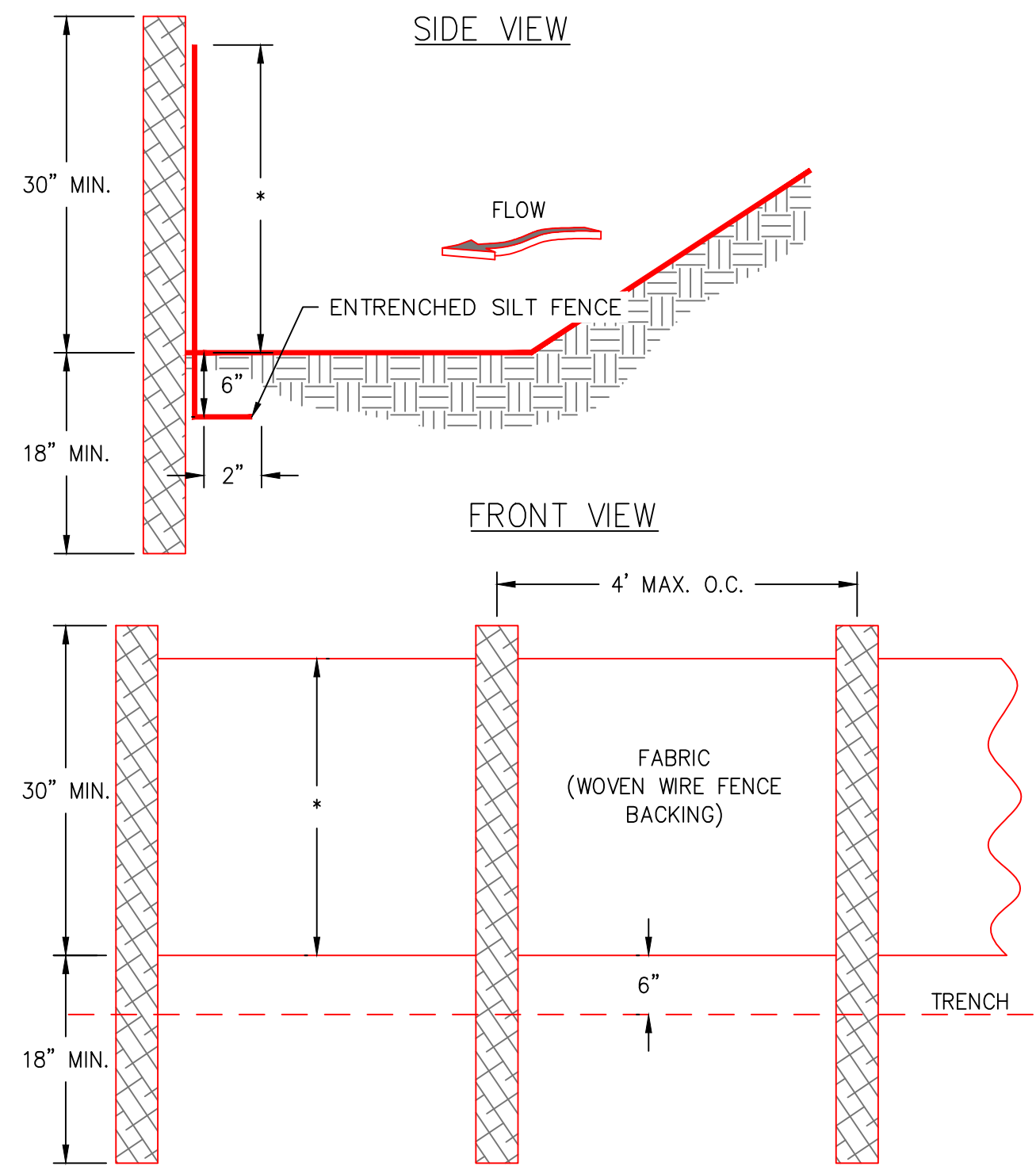
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**Sd1-NS SEDIMENT BARRIER - NON-SENSITIVE**  
N.T.S.



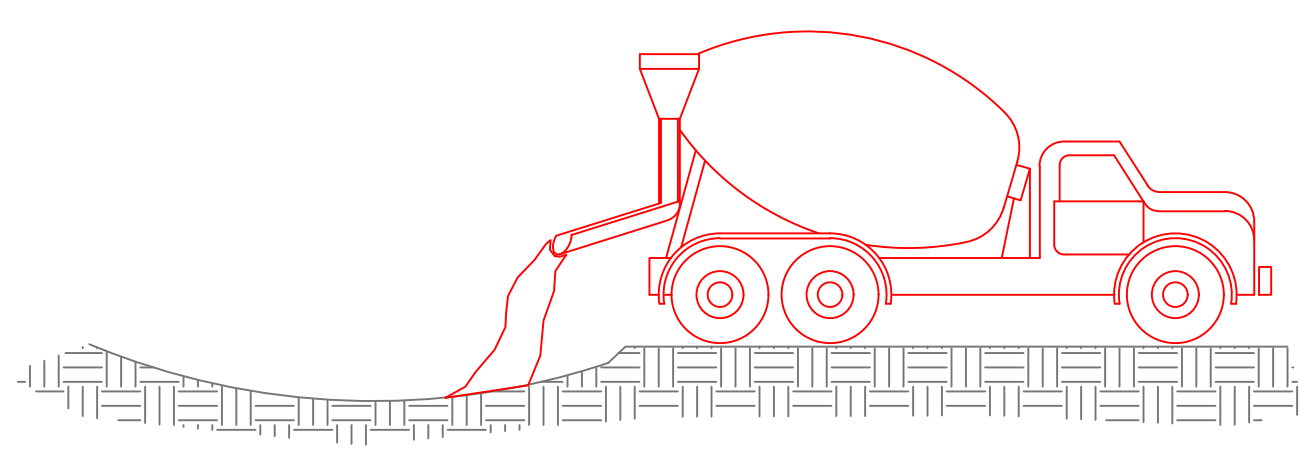
- NOTES:
1. USE 1.5" X 1.5" OAK POSTS, 3" DIAMETER SOFTWOOD DOWELS, 2" X 4" SOFTWOOD BOARDS, OR 1.15 LB/FT (MIN.) STEEL POSTS
  2. HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

**Sd1-S SEDIMENT BARRIER - SENSITIVE**  
N.T.S.



- NOTES:
1. USE 2" X 2" OAK POSTS OR 1.15 LB/FT STEEL POSTS
  2. HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
  3. 2 ROWS OF TYPE S SHALL BE PLACED A MINIMUM OF 36" APART.

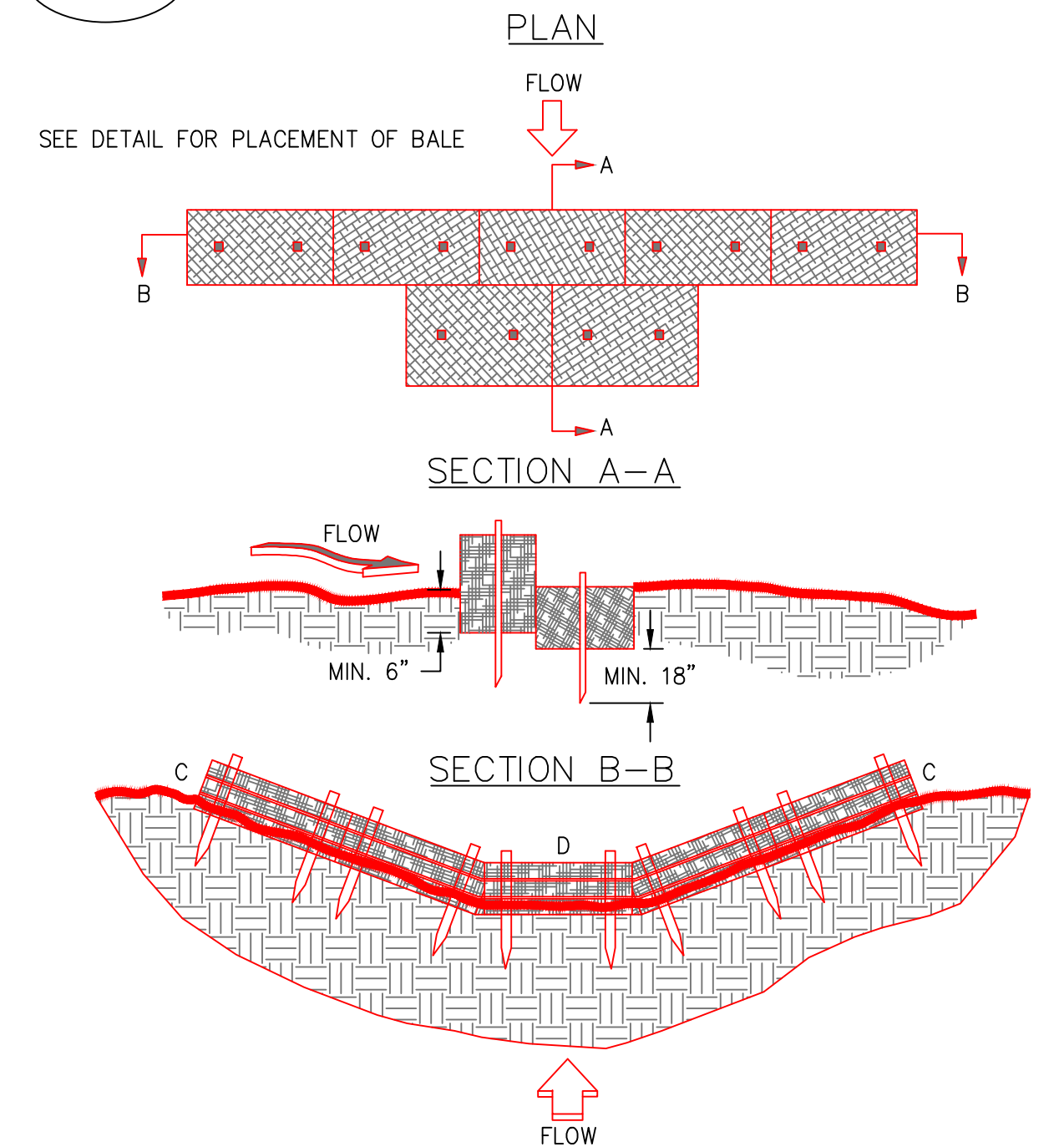
**CONCRETE TRUCK WASHDOWN**  
N.T.S.



- NOTE:
1. ADVISE CONCRETE TRUCK DRIVERS OF THE DESIGNATED WASH-OUT AREAS BEFORE THEY START THE JOB.
  2. EXCAVATE PIT LARGE ENOUGH TO CONTAIN WASHDOWN WATER. THIS MUST BE AWAY FROM STORM DRAINS AND WATERWAYS.
  3. WASHDOWN CHUTE, HOPPER, AND REAR OF VEHICLE ONLY. DO NOT WASH OUT DRUM
  4. ENSURE THAT ALL WASHDOWN WATER STAYS IN PIT.
  5. DISPOSE OF SETTLED, HARDENED CONCRETE IN GARBAGE WITH OTHER CONSTRUCTION DEBRIS.
  6. NEVER DISPOSE OF WASHDOWN WATER IN STREETS, STORM DRAINS, OR STREAMS.

BLANKET

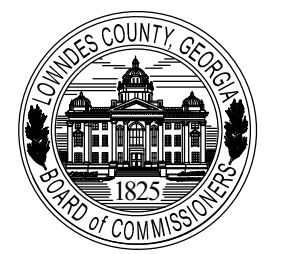
**Cd-Hb CHECKDAM W/ HAYBALES**  
N.T.S.



- NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
  2. BALES SHOULD BE STAKED TO THE SPECIFIED DEPTH USING #4 REBAR.
  3. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
  4. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.
  5. CHECK DAMS SHALL BE REMOVED ONCE FINAL STABILIZATION HAS OCCURED.
  6. AFTER REMOVAL, THE AREA BENEATH THE DAM SHALL BE SEEDDED AND MULCHED IMMEDIATELY.



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**ROCKY HILL CHURCH ROAD**  
LAND LOT 38 OF THE 12TH LAND DISTRICT  
LOWNDES COUNTY - STATE OF GEORGIA

REVISIONS	
DATE	DESCRIPTION

SCALE:	N.T.S.
DESIGNED BY:	TJH
CHECKED BY:	MCM
SUBMITTAL DATE:	4-11-2023
JOB NO.	0010-131
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**ESPC DETAILS (3 OF 3)**

**G-5**

5 OF 11 SHEETS

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**Du** **DUST CONTROL ON DISTURBED AREAS**

**DEFINITION**

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS AND DEMOLITION SITES.

**PURPOSE**

TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AND REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

**CONDITIONS**

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

**METHODS AND MATERIALS**

- A. TEMPORARY METHODS  
**MULCHES:** SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION. SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL, TACKIFIERS, BINDERS, AND RESINS SUCH AS CURASOL OR TERRATAK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.  
**VEGETATIVE COVER:** SEE STANDARD DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).  
**SPRAY-ON ADHESIVES:** THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.  
**TILLAGE:** THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.  
**IRRIGATION:** THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.  
**BARRIERS:** SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALL, BALES OF HAY AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.  
 B. PERMANENT METHODS  
**PERMANENT VEGETATION:** SEE STANDARD DS3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.  
**TOPSOILING:** THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL.  
**STONE:** COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

ADHESIVE	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE (Gallons/Acre)
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

**DS2** **DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)**

**DEFINITION**

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDLINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDE AREAS.

**PURPOSE**

- TO REDUCE RUNOFF AND SEDIMENT DAMAGE OF DOWNSTREAM RESOURCES
- TO PROTECT THE SOIL SURFACE FROM EROSION
- TO IMPROVE WILDLIFE HABITAT
- TO IMPROVE AESTHETICS
- TO IMPROVE TILTH, INFILTRATION AND AERATION AS WELL AS ORGANIC MATTER FOR PERMANENT PLANTINGS.

**CONDITIONS**

THIS PRACTICE IS APPLICABLE ON AREAS SUBJECT TO EROSION FOR UP TO SIX MONTHS OR UNTIL THE ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATIVE COVER. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMIC AND EFFECTIVE STABILIZATION.

**SPECIFICATIONS**

- GRADING AND SHAPING
  - EXCESSIVE WATER RUN-OFF MUST BE CONTROLLED BY PLANNED AND INSTALLED EROSION CONTROL PRACTICE SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BASINS AND OTHERS.
  - NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.
- SEEDBED PREPARATION
  - WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED.
  - WHEN USING CONVENTIONAL OR HAND-SEEDED, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAIN.
  - WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH UNDISTURBED CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.
- LIME AND FERTILIZER
  - AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED.
  - ON SOILS OF VERY LOW FERTILITY, USE 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000SQ.FT.). IF THE SITE WILL PERMIT, APPLY BEFORE LAND PREPARATION AND DISK, RIP OR CHISEL TO INCORPORATE.
  - SEEDING SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR.
  - IRRIGATION
    - DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION.
    - THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL ENSURE GERMINATION OF THE SEED.
    - SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	ALONE		IN MIXTURE		PLANTING DATES **
	RATE PER 1,000 SQ.FT.	RATE PER ACRE *	RATE PER 1,000 SQ.FT.	RATE PER ACRE *	
Barley	3.3 lbs.	3 bushels	0.6 lbs.	1/2 bushel	9/1-12/31
Annual Lespedeza	0.9 lbs.	40 lbs.	0.2 lbs.	10 lbs.	1/15-3/15
Weeping Lovegrass	0.1 lbs.	4 lbs.	0.05 lbs.	2 lbs.	2/14-6/15
Browntop Millet	0.9 lbs.	40 lbs.	0.2 lbs.	10 lbs.	4/1-7/15
Pearl Millet	1.1 lbs.	50 lbs.	NOT RECOMMENDED FOR MIXTURES		4/1-8/31
Oats	2.9 lbs.	4 bushels	0.7 lbs.	1 bushel	9/1-11/30
Rye	3.9 lbs.	3 bushels	0.6 lbs.	1/2 bushel	9/1-2/28
Ryegrass	0.9 lbs.	40 lbs.	NOT TO BE USED IN MIXTURES		8/15-3/31
Sudangrass	1.4 lbs.	60 lbs.	NOT RECOMMENDED FOR MIXTURES		3/1-7/31
Triticale	3.3 lbs.	3 bushels	0.6 lbs.	1/2 bushel	1/1-1/31, 9/15-10/15, 12/15-12/31
Wheat	4.1 lbs.	3 bushels	0.7 lbs.	1/2 bushel	10/15-1/31

\* UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES  
 \*\* SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND CONDITIONS.

**DS3** **DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)**

**DEFINITION**

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

**PURPOSE**

- TO PROTECT THE SOIL FROM EROSION
- TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS.
- TO IMPROVE WILDLIFE HABITAT AND VISUAL RESOURCES.
- TO IMPROVE AESTHETICS.

**REQUIREMENT FOR REGULATORY COMPLIANCE**

THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OR SODDING SHALL BE APPLIED TO ALL AREAS AT FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, AT LEAST 70% OF THE PLANTED PERENNIAL VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED. PERMANENT VEGETATION SHALL CONSIST OF PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE REGION, SUCH THAT WITHIN THE GROWING SEASON A 70% COVERAGE BY PERENNIAL VEGETATION SHALL BE ACHIEVED. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION. FOR LINEAR CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE, UNTIL THIS STANDARD IS SATISFIED AND PERMANENT CONTROL MEASURES AND FACILITIES ARE OPERATIONAL, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED.

**CONDITIONS**

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDE AREAS.

**CONSTRUCTION SPECIFICATIONS**

- GRADING AND SHAPING
  - GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.
  - WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE USED, EQUIPMENT TO BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING, AND MAINTENANCE OF VEGETATION.
- LIME AND FERTILIZER RATES AND ANALYSIS
  - AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
  - LIME SPREADER BY CONVENTIONAL EQUIPMENT SHALL BE "GROUND LIMESTONE". GROUND LIMESTONE IS DOLOMITIC LIMESTONE GROUND SO THAT 90 PERCENT OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE, NOT LESS THAN 50 PERCENT WILL PASS THROUGH A 50-MESH SIEVE AND NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.
  - AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT SHALL BE "FINELY GROUND LIMESTONE". FINELY GROUND LIMESTONE IS DOLOMITIC LIMESTONE GROUND SO THAT 98 PERCENT OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.
- LIME AND FERTILIZER APPLICATION
  - WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN SLURRY. THE INOCULANT, IF NEEDED, SHALL BE MIXED WITH THE SEED PRIOR TO BEING PLACED INTO THE HYDRAULIC SEEDER. THE SLURRY MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.
  - FINELY GROUND LIMESTONE WILL BE MIXED WITH WATER AND APPLIED IMMEDIATELY AFTER MULCHING IS COMPLETED OR IN COMBINATION WITH THE TOP DRESSING.
  - WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS:
    - APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
    - MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS.
    - BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.
    - A FERTILIZER PELLET SHALL BE PLACED AT ROOT DEPTH IN THE CLOSING HOLE BESIDE EACH PINE TREE SEEDLING.
- PLANT SELECTION
  - PLANTS SHALL BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS, SITE AND SOIL CONDITIONS, PLANNED USE AND MAINTENANCE OF THE AREA; TIME OF YEAR OF PLANTING, METHOD OF PLANTING; AND THE NEEDS AND DESIRES OF THE LAND USER.
  - SOME PERENNIAL SPECIES ARE EASILY ESTABLISHED AND CAN BE PLANTED ALONE. EXAMPLES OF THESE ARE COMMON BERMUDA AND WEEPING LOVEGRASS.
  - OTHER PERENNIALS SUCH AS BAHIA GRASS AND SERICEA LESPEDEZA, ARE SLOW TO BECOME ESTABLISHED AND SHOULD BE PLANTED WITH ANOTHER PERENNIAL SPECIES. THE ADDITIONAL SPECIES WILL PROVIDE QUICK COVER AND AMPLE SOIL PROTECTION UNTIL THE TARGET PERENNIAL SPECIES BECOME ESTABLISHED.
  - PLANT SELECTION MAY ALSO INCLUDE ANNUAL COMPANION CROPS. ANNUAL COMPANION CROPS SHOULD BE USED ONLY WHEN THE PERENNIAL SPECIES ARE NOT PLANTED DURING THEIR OPTIMUM PLANTING PERIOD. A COMMON MIXTURE IS BROWN TOP MILLET WITH COMMON BERMUDA IN MID-SUMMER. CARE SHOULD BE TAKEN IN SELECTING COMPANION CROP SPECIES AND SEEDING RATES BECAUSE ANNUAL CROPS WILL COMPETE WITH PERENNIAL SPECIES FOR WATER, NUTRIENT AND GROWING SPACE. A HIGH SEEDING RATE OF THE COMPANION CROP MAY PREVENT THE ESTABLISHMENT OF PERENNIAL SPECIES.
  - RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.
- SEEDBED PREPARATION
  - SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS FOR BROADCAST PLANTINGS:
    - TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS USED.
    - TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
    - TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.
  - ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE WILL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.
- PLANTING
  - HYDRAULIC SEEDING
    - MIX THE SEED, INOCULANT, FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.
    - CONVENTIONAL SEEDING
      - SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.
    - NO-TILL SEEDING
      - NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.
  - MULCHING
    - MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDING AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED.
      - DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE. SERICEA LESPEDEZA HAY SHALL BE APPLIED AT THE RATE OF 3 TONS PER ACRE.
      - WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
      - ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER.
      - WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOO, MULCH IS NOT REQUIRED.
      - BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
      - WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.
  - IRRIGATION
    - IF WATER IS APPLIED, IT MUST BE AT A RATE NOT CAUSING RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO A DEPTH THAT WILL ENSURE GERMINATION OF THE SEED.
  - USE AND MANAGEMENT
    - MOW SERICEA LESPEDEZA ONLY AFTER FROST TO ENSURE THAT THE SEEDS ARE MATURE. MOW BETWEEN NOVEMBER AND MARCH.
    - BERMUDAGRASS AND BAHAGRASS MAY BE MOWED AS DESIRED. MAINTAIN AT LEAST 6 INCHES OF TOP GROWTH UNDER ANY USE AND MANAGEMENT. MODERATE USE OF TOP GROWTH IS BENEFICIAL AFTER ESTABLISHMENT.
    - EXCLUDE TRAFFIC UNTIL THE PLANTS ARE WELL ESTABLISHED.

SEEDING RATES FOR PERMANENT VEGETATION

SPECIES	ALONE		WITH OTHER PERENNIALS		PLANTING DATES **
	RATE PER 1,000 SQ.FT.	RATE PER ACRE *	RATE PER 1,000 SQ.FT.	RATE PER ACRE *	
Pensacola Bahia	1.4 lbs.	60 lbs.	0.7 lbs.	30 lbs.	1/1-12/31
Common Bermuda (hulled seed)	0.2 lbs.	10 lbs.	0.7 lbs.	6 lbs.	2/14-6/30
Common Bermuda (unhulled seed)	0.2 lbs.	10 lbs.	0.1 lbs.	6 lbs.	11/1-1/31
Sericea Lespedeza (scarified)	1.4 lbs.	60 lbs.	1.4 lbs.	60 lbs.	2/14-6/15
Sericea Lespedeza (unscarified)	1.7 lbs.	75 lbs.	1.7 lbs.	75 lbs.	1/1-12/31
Lespedeza (scarified)	1.4 lbs.	60 lbs.	1.4 lbs.	60 lbs.	2/14-5/31
Weeping Lovegrass****	0.1 lbs.	4 lbs.	0.05 lbs.	2 lbs.	2/1-6/15
Panicgrass, Atlantic Coastal	0.5 lbs.	20.0 lbs.	0.5 lbs.	20.0 lbs.	2/1-4/30
Sunflower 'Aztec'	0.2 lbs.	10 lbs.	0.2 lbs.	10 lbs.	4/1-5/31

\* UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.  
 \*\* SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND CONDITIONS.  
 \*\*\* PLANT WITH TEMPORARY COVER SUCH AS WINTER ANNUALS.  
 \*\*\*\* DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS.

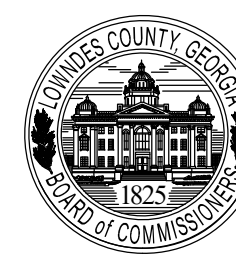
FERTILIZER REQUIREMENTS

SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE	
				Rate	Rate
Cool season grasses	First Second Maintenance	6-12-12 10-10-10	1500 lbs/ac.	50-100 lbs/ac. 1/2	-
			1000 lbs/ac.	-	-
			400 lbs/ac.	30 lbs/ac.	-
Cool season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs/ac.	0-50 lbs/ac. 1/	-
			1000 lbs/ac.	-	-
			400 lbs/ac.	-	-
Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs/ac.	50-100 lbs/ac. 2/3	-
			1000 lbs/ac.	50-100 lbs/ac. 2/	-
			400 lbs/ac.	30 lbs/ac.	-
Warm season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs/ac.	50 lbs/ac. 3/	-
			1000 lbs/ac.	-	-
			400 lbs/ac.	-	-

- 1/ APPLY IN SPRING FOLLOWING SEEDING.
- 2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
- 3/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.



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**ROCKY HILL CHURCH ROAD**  
 LAND LOT 38 OF THE 12TH LAND DISTRICT  
 LOWNDES COUNTY - STATE OF GEORGIA

**REVISIONS**

DATE	DESCRIPTION

**SCALE:** N.T.S.

**DESIGNED BY:** TJH

**CHECKED BY:** MCM

**SUBMITTAL DATE:** 4-11-2023

**JOB NO.** 0010-131

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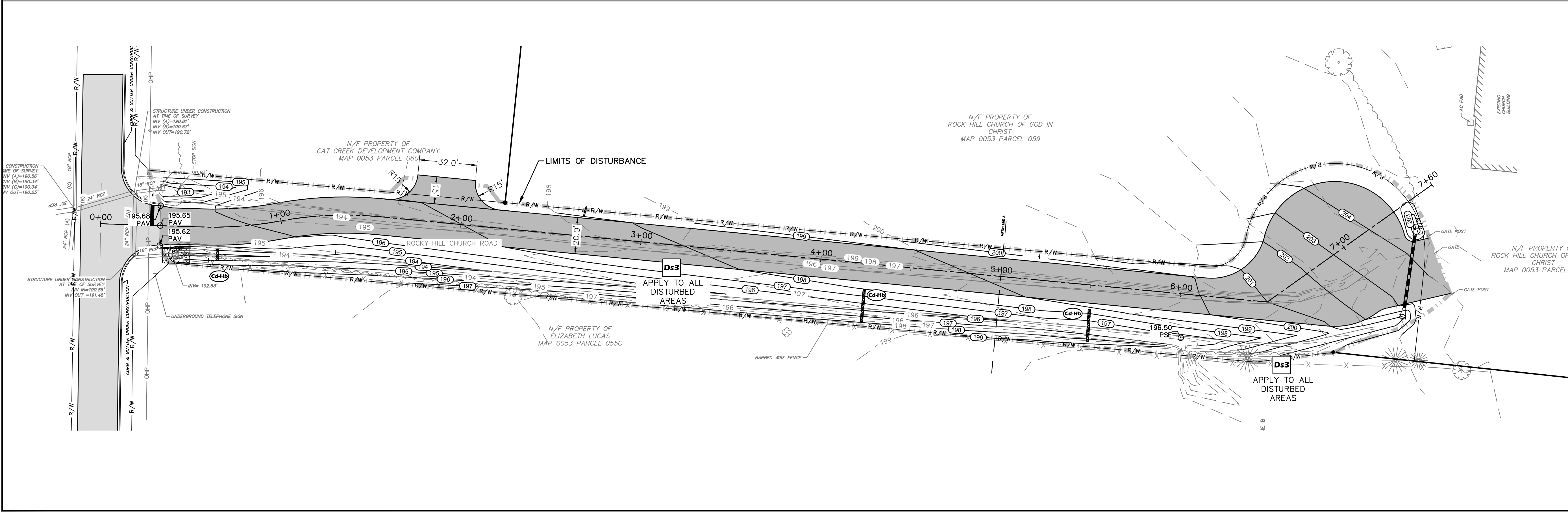
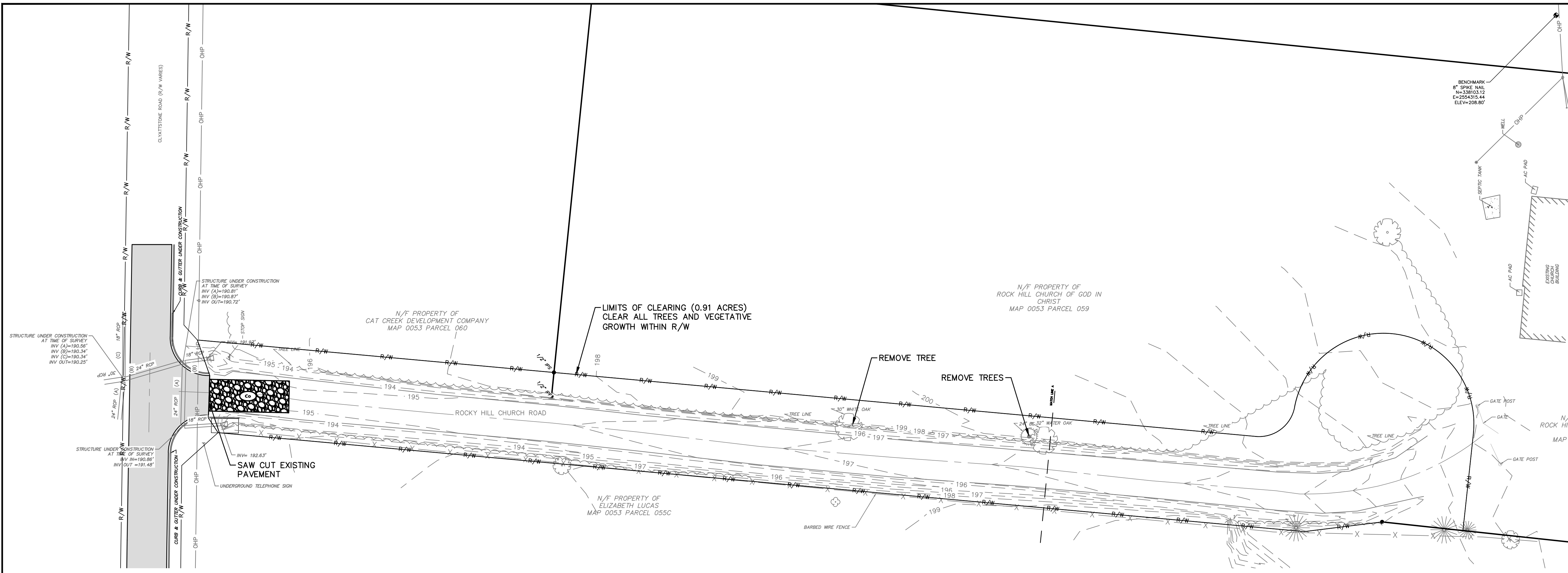


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**ESPC VEGETATIVE NOTES**



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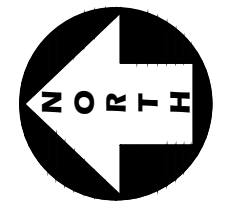
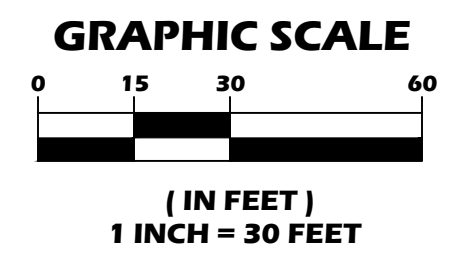
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**ROCKY HILL CHURCH ROAD**  
 LAND LOT 38 OF THE 12TH LAND DISTRICT  
 LOWNDES COUNTY - STATE OF GEORGIA

REVISIONS	DATE	DESCRIPTION



**SCALE:** 1"=30'

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**EXISTING CONDITIONS & ESPC PLAN**

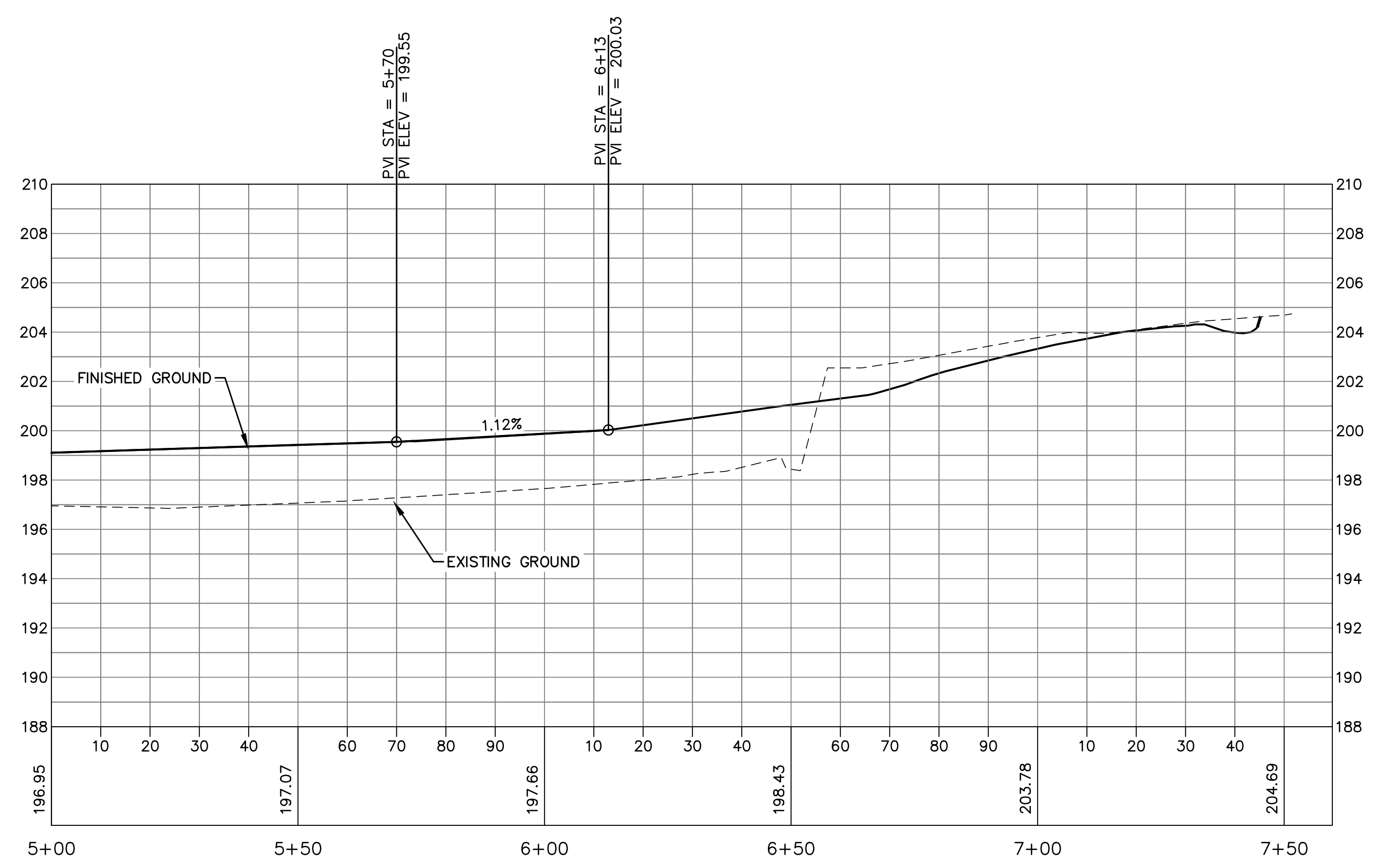
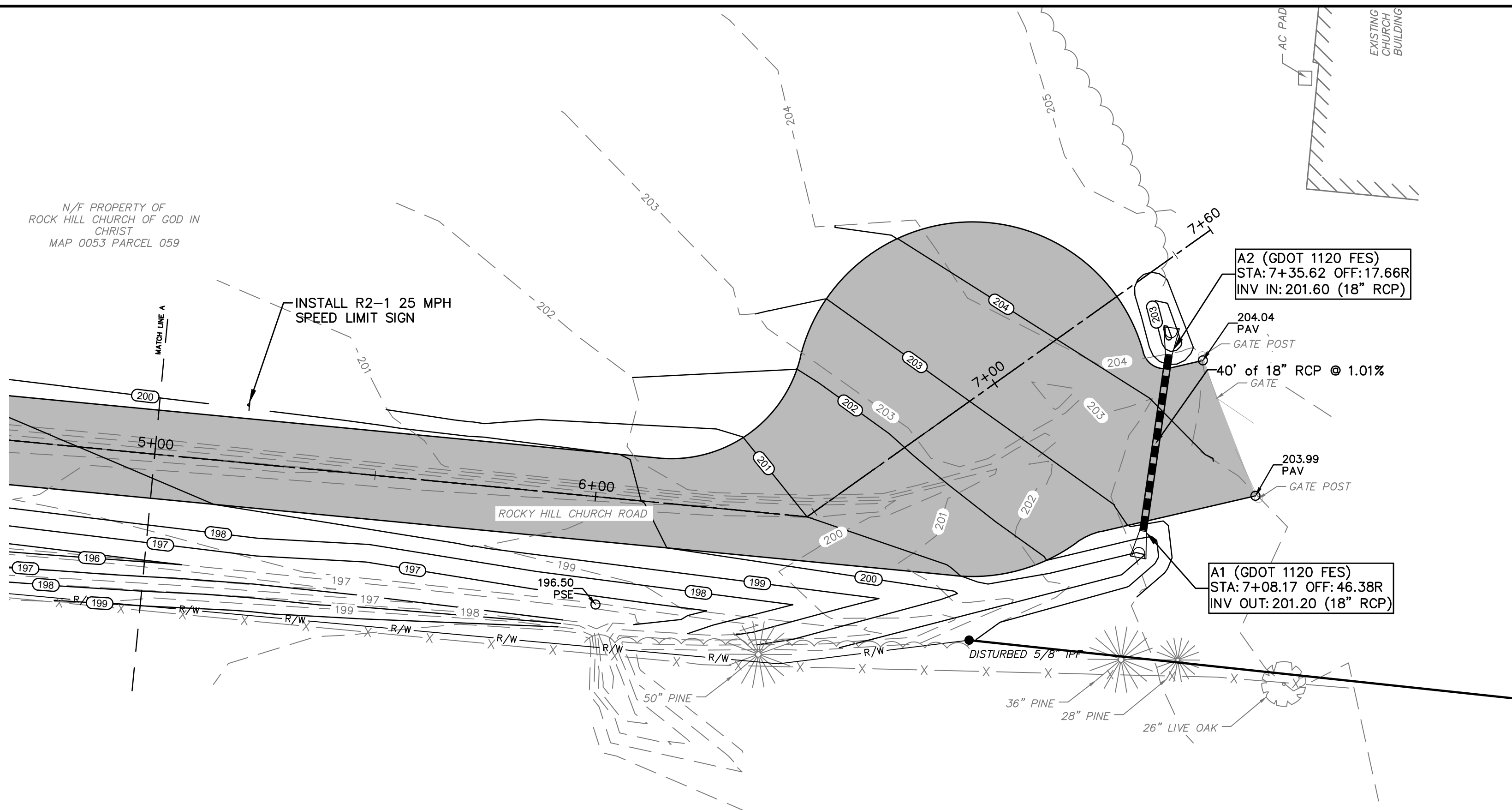
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7 OF 11 SHEETS

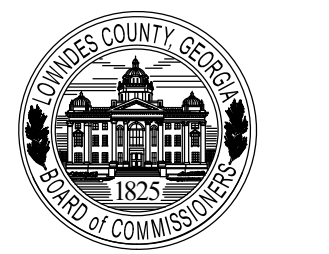
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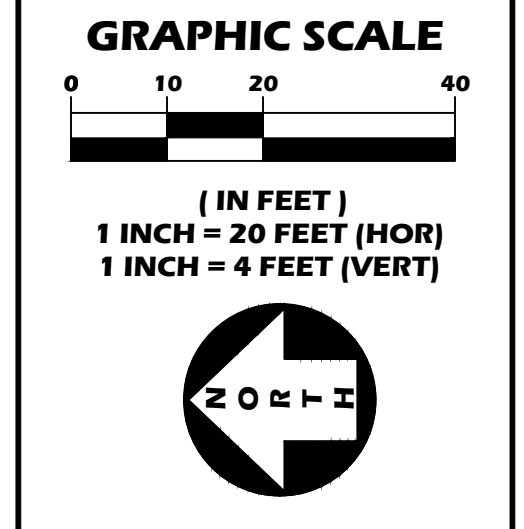


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**ROCKY HILL  
 CHURCH ROAD**  
 LAND LOT 38 OF THE 12TH LAND DISTRICT  
 LOWNDES COUNTY - STATE OF GEORGIA

REVISIONS	
DATE	DESCRIPTION



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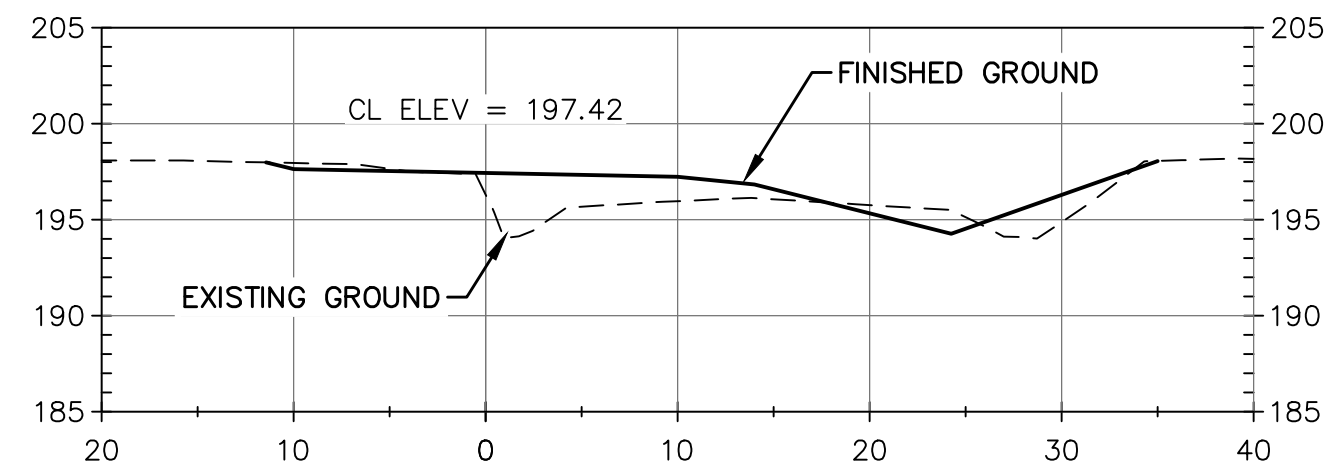


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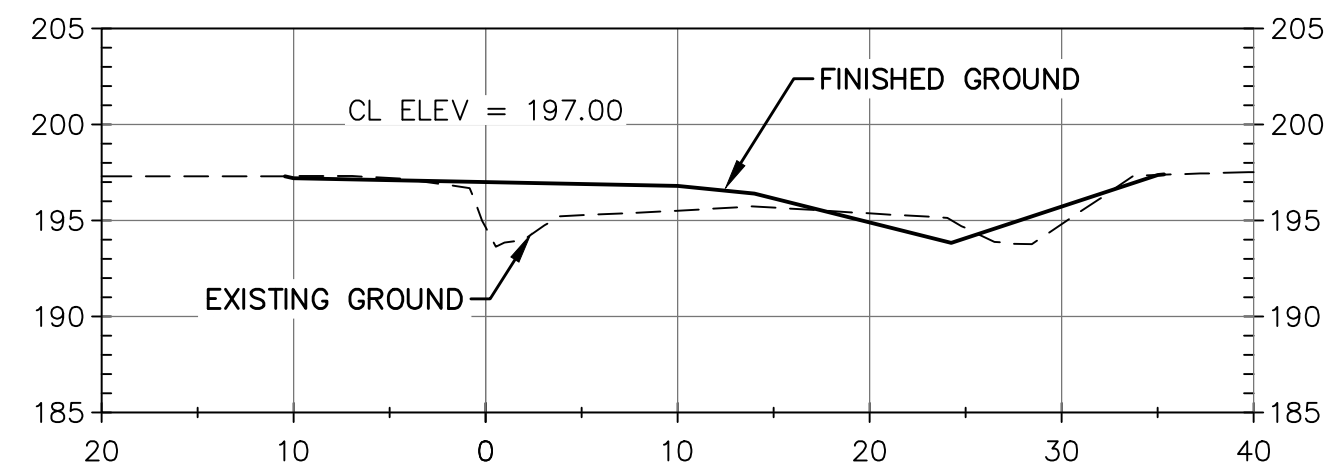
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 9 OF 11 SHEETS

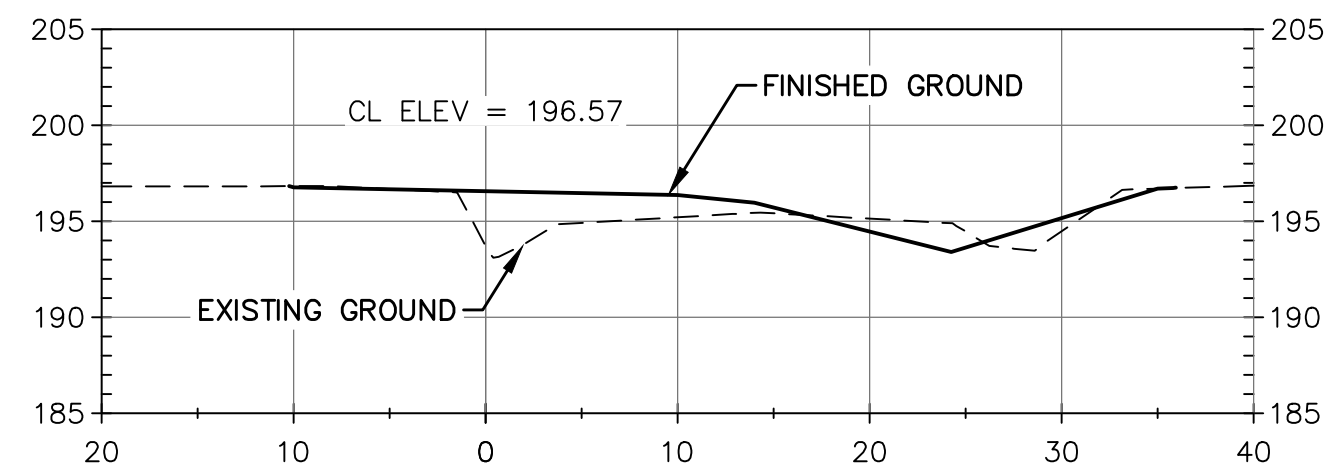
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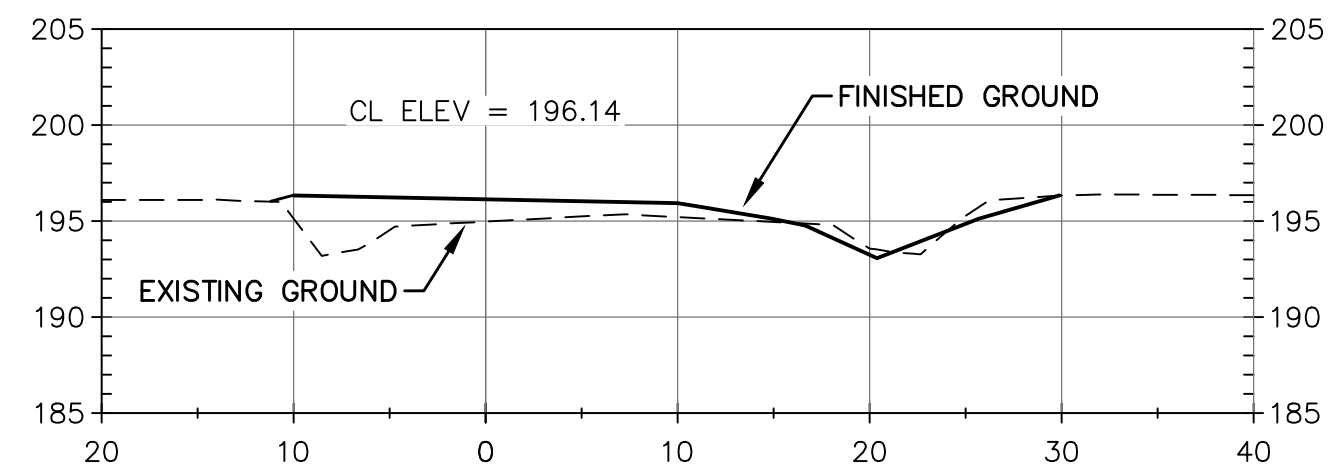
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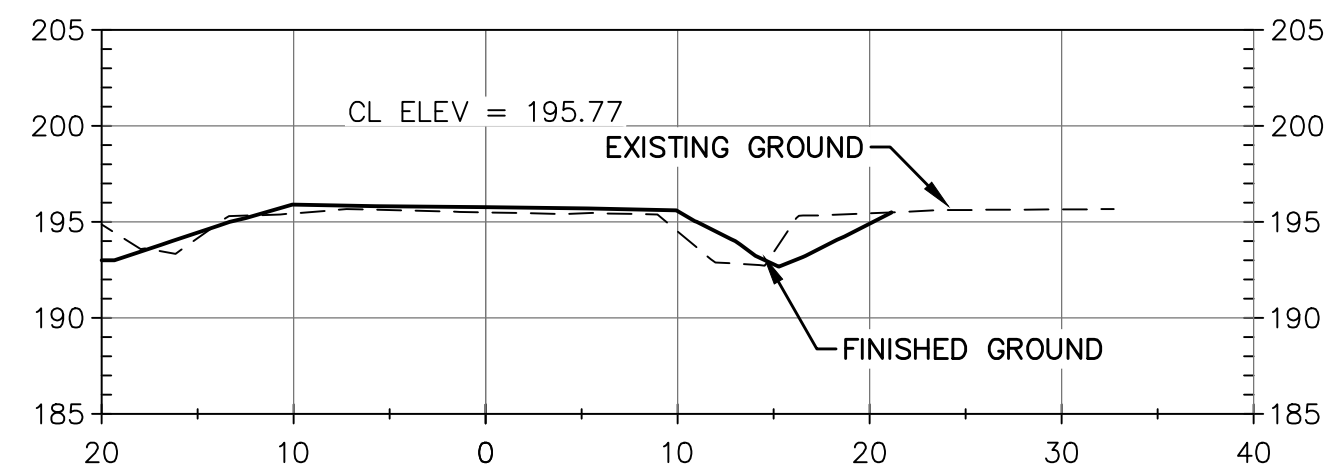
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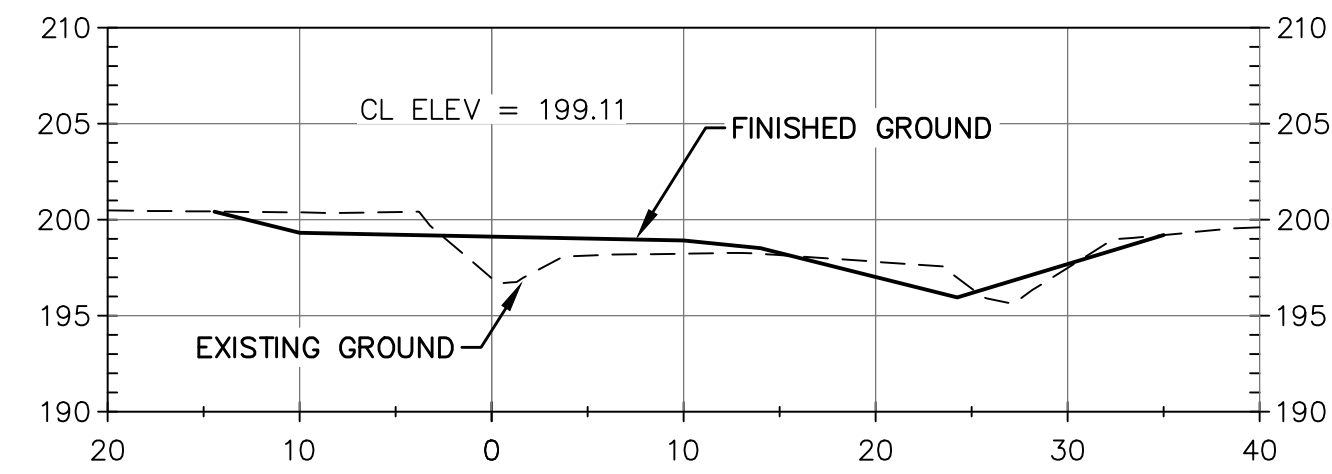
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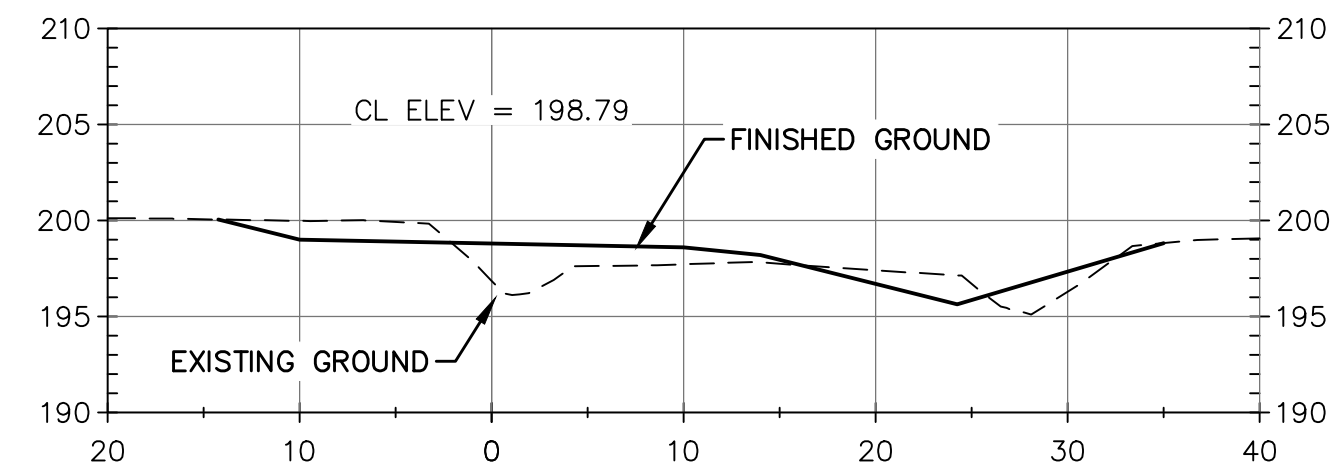
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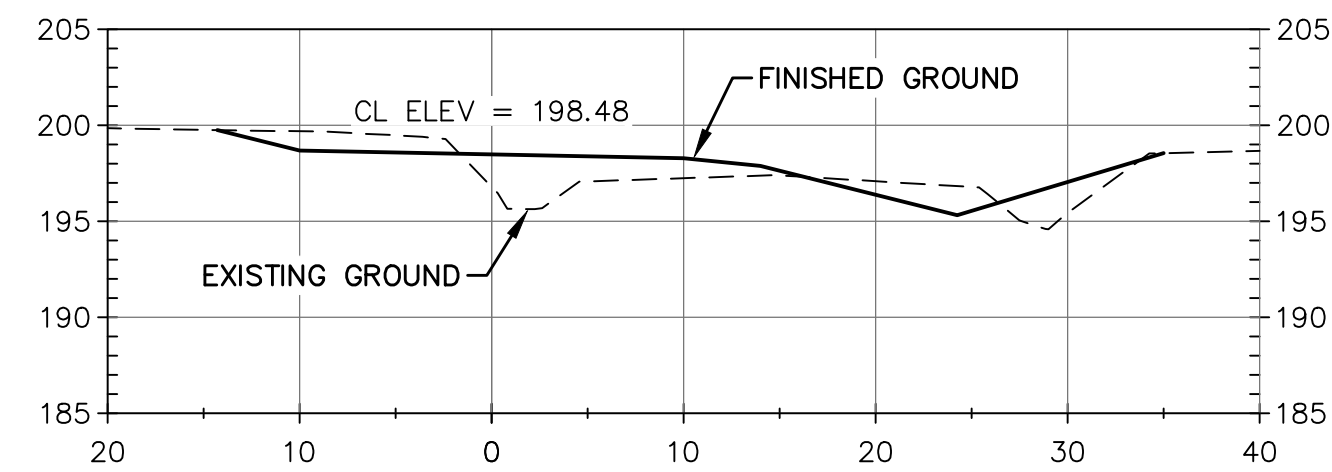
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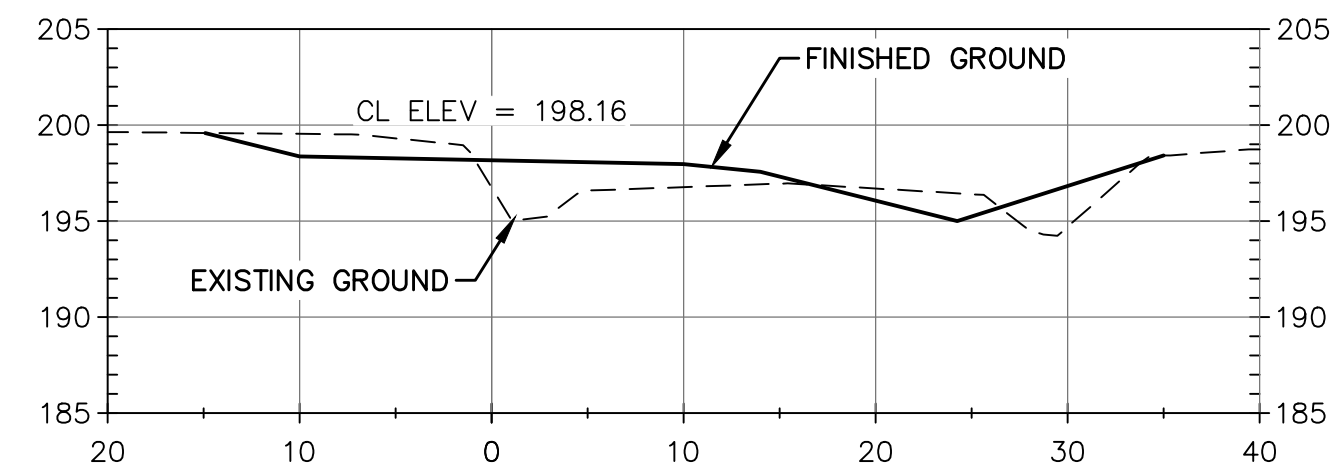
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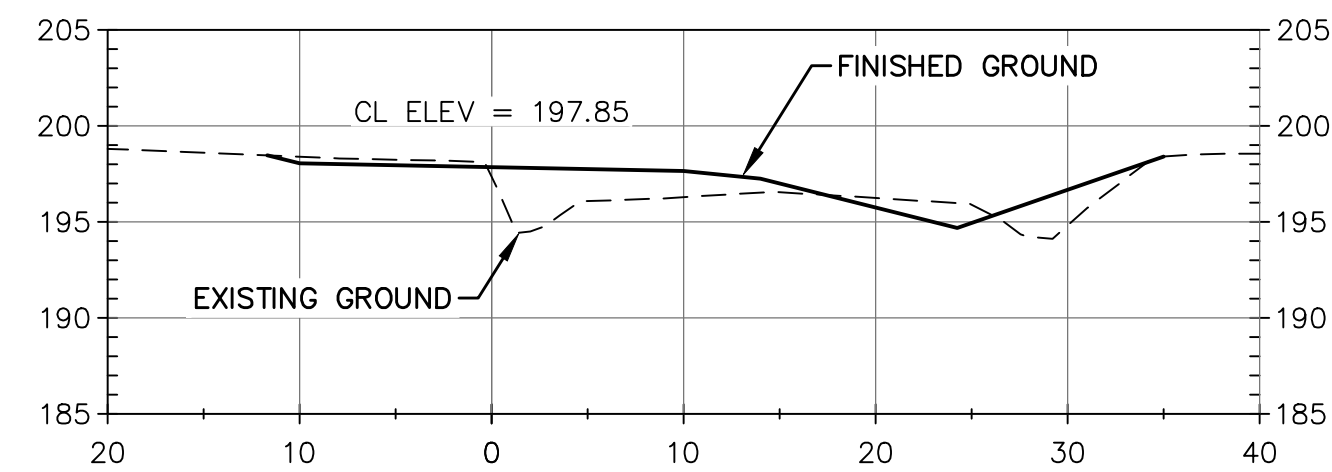
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ROCKY HILL CHURCH CL-4+00



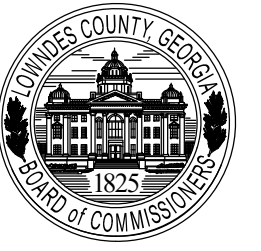
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ROCKY HILL CHURCH CL-3+00



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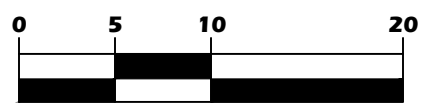


**ROCKY HILL  
 CHURCH ROAD**  
 LAND LOT 38 OF THE 12TH LAND DISTRICT  
 LOWNDES COUNTY - STATE OF GEORGIA

**REVISIONS**

DATE	DESCRIPTION

**GRAPHIC SCALE**



( IN FEET )  
 1 INCH = 10 FEET

**SCALE:** 1"=10'

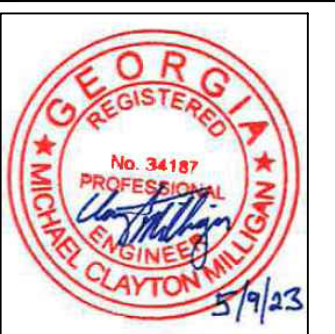
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**CHECKED BY:** MCM

**SUBMITTAL DATE:** 4-11-2023

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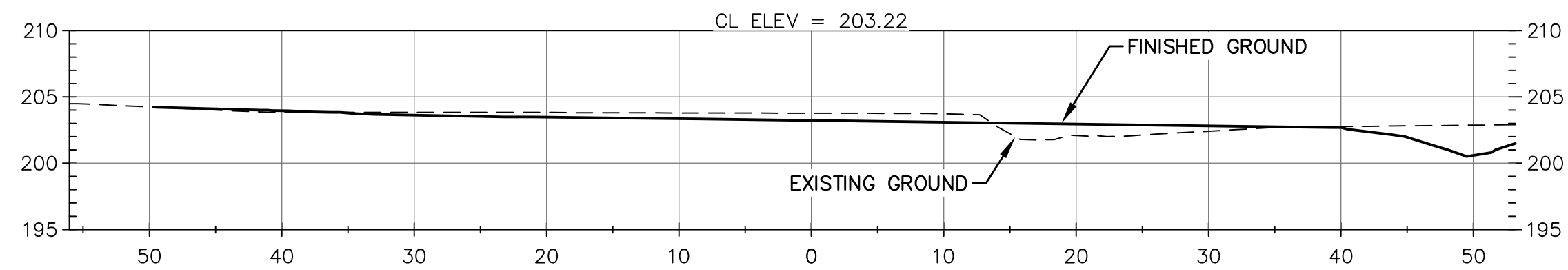
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**CROSS  
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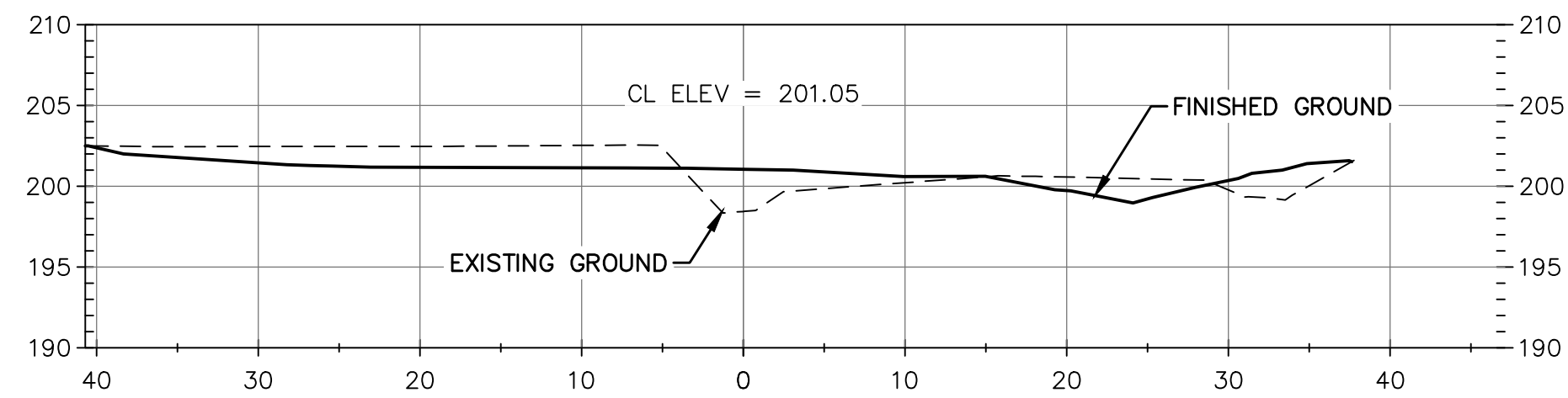
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10 OF 11 SHEETS

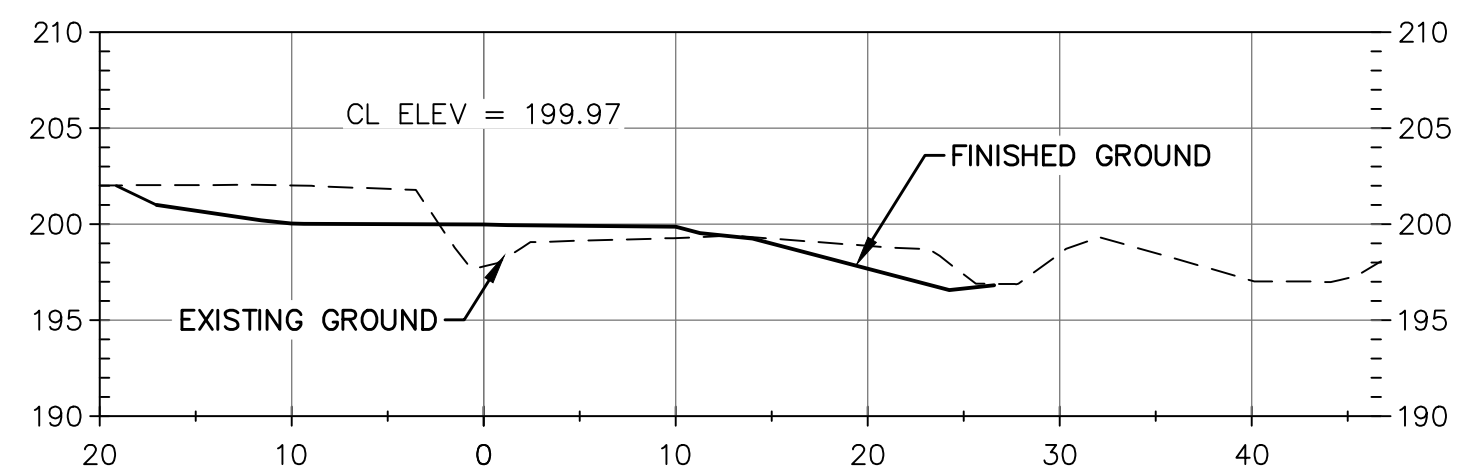
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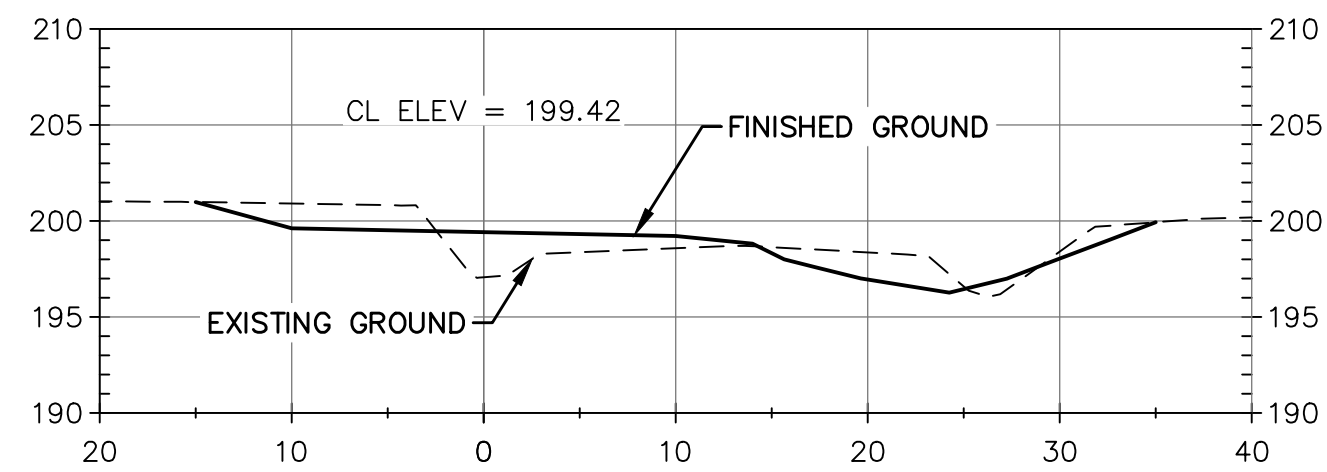
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ROCKY HILL CHURCH CL-6+50



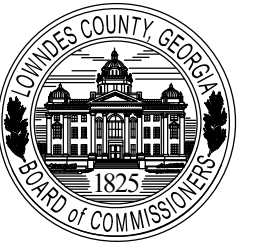
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ROCKY HILL CHURCH CL-5+50

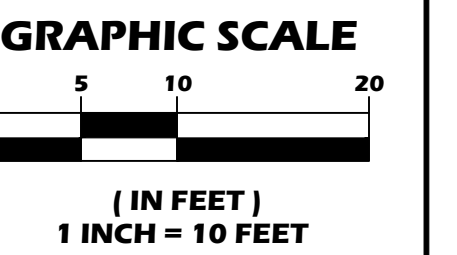


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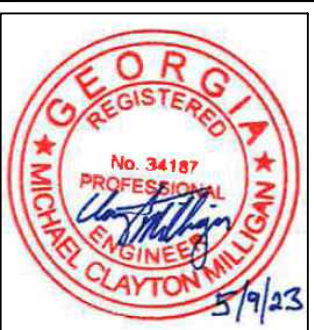
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**CROSS  
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