

Wood Environment & Infrastructure Solutions, Inc. 1075 Big Shanty Road Suite 100 Kennesaw, Georgia 30144 USA

T: 770-421-3400

www.woodplc.com

May 29, 2020

Mr. Paul Tobler Georgia Department of Natural Resources Coastal Resources Division One Conservation Way Brunswick, Georgia 31520

Re: Letter of Permission for Landfill Closure Former T Street Landfill Brunswick, Georgia Wood Project 6123191266

Dear Mr. Tobler,

Per our conversation with you and the Georgia Environmental Protection Division (EPD) team on March 10, 2020, the attached updated T Street Landfill Closure Plans are being provided to Georgia EPD and the Georgia Coastal Resources Division (CRD). Wood Environment & Infrastructure Solutions, Inc. (Wood) is requesting a Letter of Permission (LOP) on behalf of our client, the T Street Landfill Steering Group (Georgia-Pacific, LLC, Hercules, LLC, and the City of Brunswick), to authorize activities associated with the closure of the Former T Street Landfill in Brunswick, Georgia.

The attached Closure Plans incorporate the changes requested by EPD and CRD during the March 10, 2020 call. (Attachment 1). Additionally, the T Street Landfill Steering Group has provided a marsh line topographic survey and a marsh debris assessment to EPD and CRD. The topographic survey and debris assessment are also included as Attachment 2 to this letter.

Based on our discussions with you and the EPD team, we understand that the project does not require a revocable license request, but CRD requests that a LOP be obtained prior to initiating work at the site. This submittal serves as our request for a LOP on behalf of the T Street Landfill Steering Group. The timeframe for proposed work within the marsh buffer is July through September 2020.

If you have any questions regarding this submittal, please contact Heidi Fogell at (770) 421-3387 or Dan Grogan at (770) 547-7141. Wood looks forward to the opportunity to continue to assist the T Street Landfill Steering Group with this very important project to expedite final closure.

Sincerely,

**Wood Environment & Infrastructure Solutions, Inc.** 

onathan A. Bourdeau, PWS

Senior Scientist 1

Heidi E. Fogell, FP-C Associate Project Manager

Stricle & Toyle

Georgia Coastal Resources Division Letter of Permission for Landfill Closure May 29, 2020

CC: Ms. Jill Andrews, CRD

Mr. Bill Williams, EPD

Ms. Shannon Betts, Georgia-Pacific, LLC

Mr. Tim Hassett, Hercules, LLC

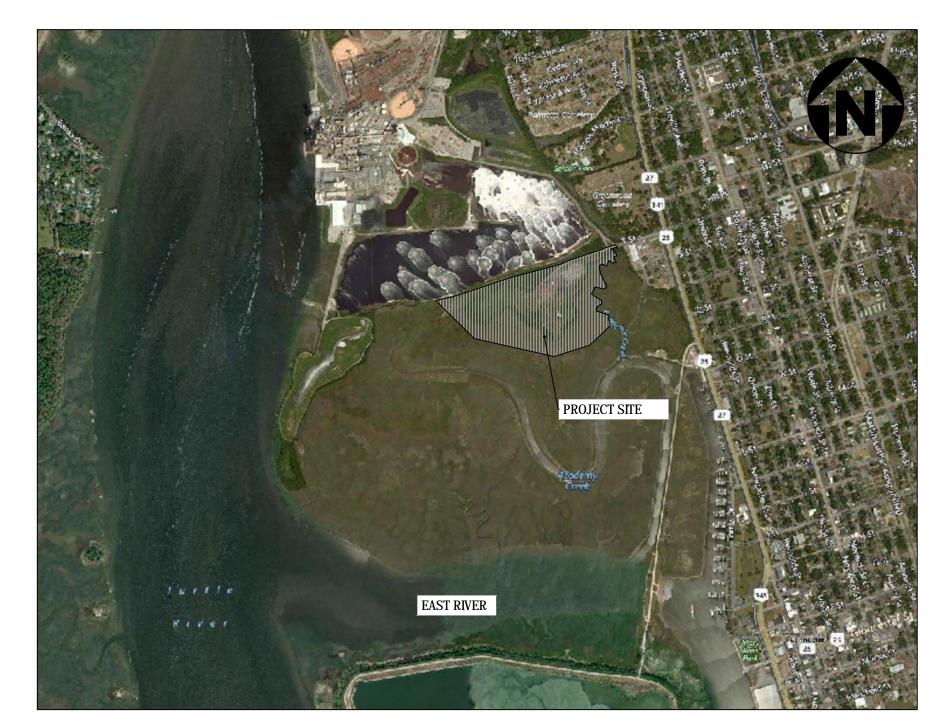
Mr. Garrow Alberson, City of Brunswick



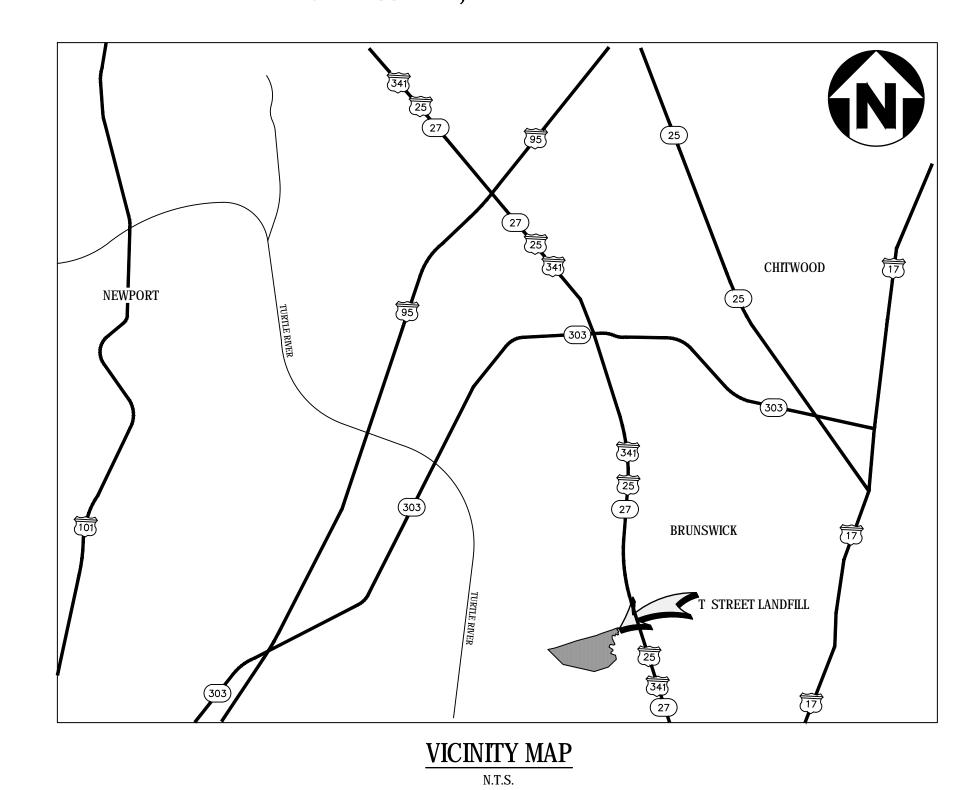
#### **ATTACHMENT 1 – T STREET LANDFILL CLOSURE PLANS**

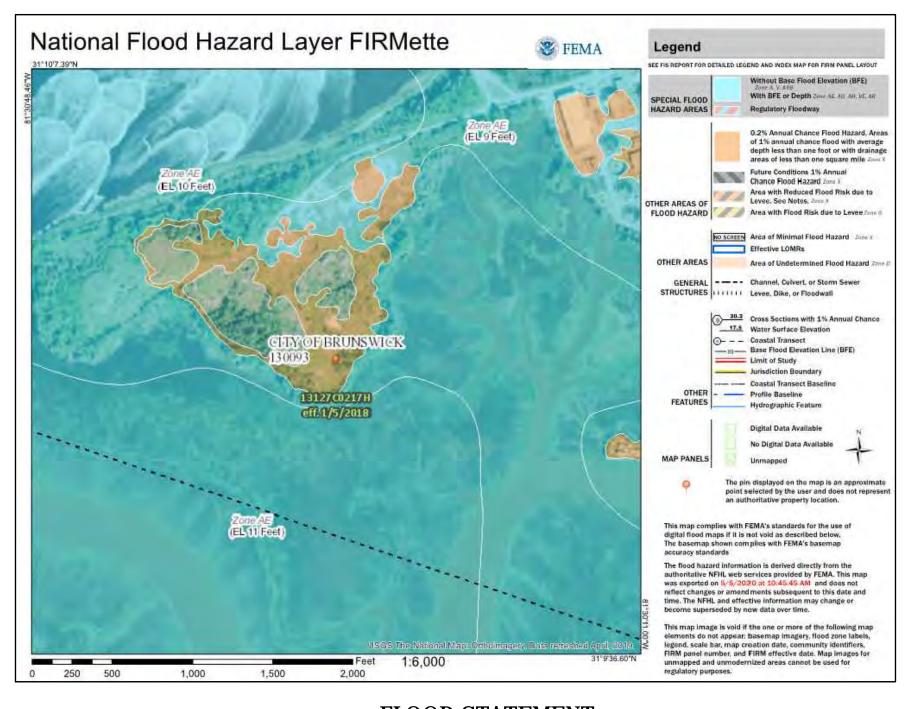
# T STREET LANDFILL CLOSURE

# T STREET LANDFILL STEERING GROUP GLYNN COUNTY BRUNSWICK, GEORGIA



SITE MAP





FLOOD STATEMENT:
ACCORDING TO F.I.R.M. PANEL #13127C0217H, EFFECTIVE DATE JANUARY 05, 2018. THE SITE IS LOCATED IN A FLOOD ZONE "AE".



ENVIRONMENTAL & INFRASTRUCTURE SOLUTIONS
PHONE 770-421-3400
1075 BIG SHANTY RD, NW SUITE 100
KENNESAW, GA 30144

NO 03/4E9
PROFESSIONAL

ENGINEER
W. MARE

28 May 2020

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2	GENERAL NOTES & INDEX	G-002
3	DEBRIS LOCATION MAP	G-003
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5	OVERALL EXISTING CONDITIONS & DEMOLITION PLAN	C-100
6	EXISTING CONDITIONS & DEMOLITION PLAN	C-101
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# SHEET ENLARGEMENTS

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C-104 EXISTING CONDITIONS & DEMOLITION PLAN C-204 SITE PLAN C-304 GRADING PLAN C-404 PHASE I EROSION CONTROL PLAN C-410 PHASE II EROSION CONTROL PLAN C-416 PHASE III EROSION CONTROL PLAN	C-105 EXISTING CONDITIONS & DEMOLITION PLAN C-205 SITE PLAN C-305 GRADING PLAN C-405 PHASE I EROSION CONTROL PLAN C-411 PHASE II EROSION CONTROL PLAN C-417 PHASE III EROSION CONTROL PLAN	C-106 EXISTING CONDITIONS & DEMOLITION PLAN C-206 SITE PLAN C-306 GRADING PLAN C-406 PHASE I EROSION CONTROL PLAN C-412 PHASE II EROSION CONTROL PLAN C-418 PHASE III EROSION CONTROL PLAN

# **GENERAL NOTES:**

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SITE CONDITIONS AND LOCATIONS OF ALL UTILITIES. COORDINATE WITH ALL UTILITY COMPANIES. NO ADDITIONAL PAYMENT SHALL BE ALLOWED DUE TO REQUIRED LINE RELOCATION HORIZONTALLY OR NEED TO INCREASE DEPTH DUE TO UTILITIES OR SITE CONDITIONS.
- 2. NOTE THE PROXIMITY OF POWER POLES IN RELATIONSHIP TO THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING POWER POLES AND GUY WIRES DURING CONSTRUCTION. COORDINATE WITH UTILITY POLE OWNERS.
- 3. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS SHOWN ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING CONSTRUCTION.
- 4. THE ENGINEER RESERVES THE RIGHT TO ADJUST THE LOCATION OF ALL PROPOSED IMPROVEMENTS TO MEET FIELD CONDITIONS IF NECESSARY.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING STRUCTURES, UTILITIES AND SERVICES PRIOR TO EXCAVATION AND CONSTRUCTION.
- 6. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, UTILITIES AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
- 7. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES.
- 8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL PROPERTIES THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL DETOUR TRAFFIC AWAY FROM OPEN EXCAVATIONS AND SHALL PROVIDE SAFE, EXPEDITIOUS VEHICULAR MOVEMENT THROUGH CONSTRUCTION ZONES.
- 9. PROVIDE SHORING, SHEETING AND BRACING, AS NEEDED, IN CONFORMANCE WITH THE APPLICABLE RULES AND REGULATIONS PROMULGATED BY THE DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION".
- 10. LAND DISTURBANCE ACTIVITIES ASSOCIATED WITH THE WORK COULD UNCOVER PREVIOUSLY UNKNOWN ARCHAEOLOGICAL MATERIAL. IF SUCH MATERIAL IS DISCOVERED PRIOR TO OR DURING THE LAND DISTURBANCE ACTIVITIES, OR IF IT IS SUSPECTED THAT SUCH MATERIAL IS PRESENT, THE CONTRACTOR SHALL IMMEDIATELY CEASE LAND DISTURBANCE ACTIVITIES IN THE VICINITY OF THE FIND AND PROMPTLY NOTIFY THE ENGINEER. ALL ARCHAEOLOGICAL MATERIAL FOUND SHALL BECOME THE PROPERTY OF THE OWNER. (THE ENGINEER WILL IMMEDIATELY NOTIFY THE STATE HISTORIC PRESERVATION OFFICER.)
- 11. PRESERVE AND PROTECT MONITORING WELLS AND BENCHMARKS. DAMAGED WELLS AND BENCHMARK MONUMENTS SHALL BE REPAIRED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
- 12. CONTRACTOR HAUL ROADS SHALL NOT IMPEDE SURFACE WATER FLOW. PROVIDE CULVERTS, DITCHING, ETC. TO MAINTAIN POSITIVE DRAINAGE.
- 13. DEBRIS LOCATED OUTSIDE OF THE LANDFILL LIMITS SHALL BE MOVED WITHIN THE LIMITS OF CONSTRUCTION DISTURBANCE PRIOR TO THE START OF GRADING OPERATIONS.

# **LEGEND**

ITEM	SYMBOL
APPROXIMATE 25' MARSH BUFFER	******************
CRD LINE DELINEATED JULY1, 2019 BY RESOURCE AND LAND CONSULTANTS 6.6' MEAN TIDE LEVEL LINE PROPERTY LINE APPROXIMATE LIMITS OF EX LANDFILL AS PREPARED BY RMT	
VEGETATION LIMITS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
EXISTING OVERHEAD POWER LINES	OHP ————————————————————————————————————
EXISTING CHAIN LINK FENCE	x x x x x
EXISTING LANDFILL DEBRIS EXISTING MAJOR CONTOURS EXISTING MINOR CONTOURS	949 949
EXISTING POWER POLE	PP
EXISTING LIGHT POLE	::LP
EXISTING GUY POLE	I GP
PROPOSED DETAIL REFERENCE	3 C-501
PROPOSED COORDINATE	X 10
PROPOSED RADIAL POINT PROPOSED MAJOR FINISH GRADE CONTOURS PROPOSED MINOR FINISH GRADE CONTOURS	<i>RP #10</i> 950 — 950 —
PROPOSED LIMITS OF DISTURBANCE PROPOSED CHAIN LINK FENCE	x x x x x
25' WETLAND BUFFER	y y y y y
PROPOSED GRAVEL ACCESS ROAD	
EXISTING ASPHALT ROAD	
EXISTING GRAVEL ROAD	
	10 50 50 50 50 50 50 50 50 50 50 50 50 50

#### ACRONYMS

ACRONYMS									
ITEM SYMBOL									
	N.T.S.	NOT TO SCALE							
	DEQ	DEPARTMENT OF ENVIRONMENTAL QUALITY							
	RP	RADIAL POINT							
	ES&PC	EROSION, SEDIMENTATION & POLLUTION CONTROL							

# **SURVEY NOTES:**

- 1. THE TOPOGRAPHIC INFORMATION SHOWN IN THESE PLANS WAS PROVIDED TO WOOD BY EMC ENGINEERING SERVICES AND IS DATED AUGUST 29, 2019.
- 2. WOOD DOES NOT WARRANT THE ACCURACY OF THIS INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF OF
- THE ACCURACY OF THIS INFORMATION PRIOR TO COMMENCING CONSTRUCTION.

  3. THE WETLAND BUFFER AS SHOWN IN THE PLANS SHALL HAVE A MINIMUM WIDTH OF 25'.
- 4. THE INFORMATION SHOWN IN THE PLANS SHALE HAVE A MINIMUM WIDTH OF 23.

  CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

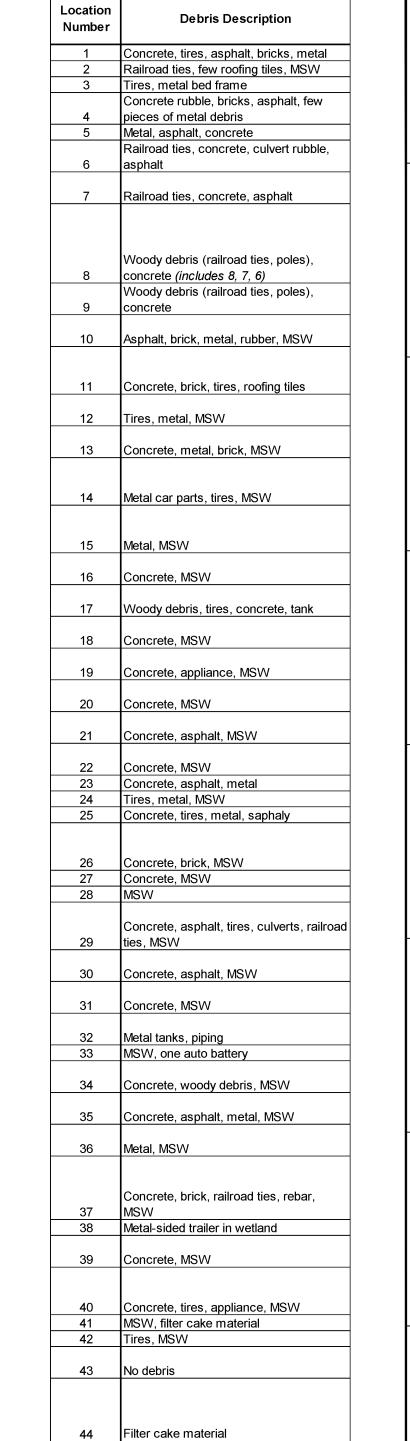


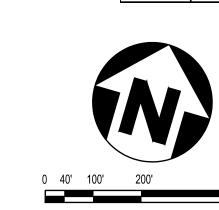
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#### DEBRIS REMOVAL NOTES

- DEBRIS REMOVAL WITHIN THE 25-FOOT MARSH BUFFER WILL FOLLOW GUIDANCE PROVIDED IN THE FEBRUARY 25, 2020 "MARSH DEBRIS ASSESSMENT REPORT", PREPARED BY WOOD E&IS.
- 2. MACHINERY OPERATION AND DEBRIS REMOVAL WITHIN THE BUFFER CAN OCCUR AS LONG AS VEGETATION IS NOT REMOVED, GROUND SURFACE DISTURBANCE RESULTING FROM REMOVAL OF DEBRIS IS MINIMIZED, AND EROSION AND SEDIMENT CONTROL FENCING IS REPLACED AS SOON AS PRACTICABLE AFTER ACCESS.
- WHERE AREAS EITHER CONTAIN INERT MATERIALS (CONCRETE) THAT SERVE TO PROTECT THE LANDFILL BASE FROM TIDAL EROSION, OR ARE HINDERED BY ACCESS OR DISTURBANCE AND/OR WOULD REQUIRE CLEARING PORTIONS OF THE VEGETATIVE BUFFER, DEBRIS WOULD BE LEFT IN PLACE AND THE AREA WOULD BE HAND-CLEARED OR CLEARED FROM OUTSIDE THE 25-FOOT BUFFER AS IS FEASIBLE.
   NO MACHINERY OPERATION WILL OCCUR WITHIN MARSH
- AREAS, EXCEPT AS INDICATED IN THE "MARSH DEBRIS ASSESSMENT REPORT".
- 5. DEBRIS FROM THE 25-FOOT MARSH BUFFER WOULD BE RELOCATED INTO THE LANDFILL OUTSIDE OF THE BUFFER.







28 May 2020

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SALTWATER MARSH

OWNER: BRUNSWICK CELLULOSE LLC

PARCEL NUMBER: 03-04993

TAX DISTRICT: CENTRAL GLYNN

(DISTRICT 03)

PROPERTY LINE

OWNER: KOCH CELLULOSE LLC PARCEL NUMBER: 01-00180 TAX DISTRICT: BRUNSWICK (DISTRICT 01)

CRD LINE DELINEATED JULY 1, 2019 BY RESOURCE AND LAND

CONSULTANTS

EXISTING VEGETATION \

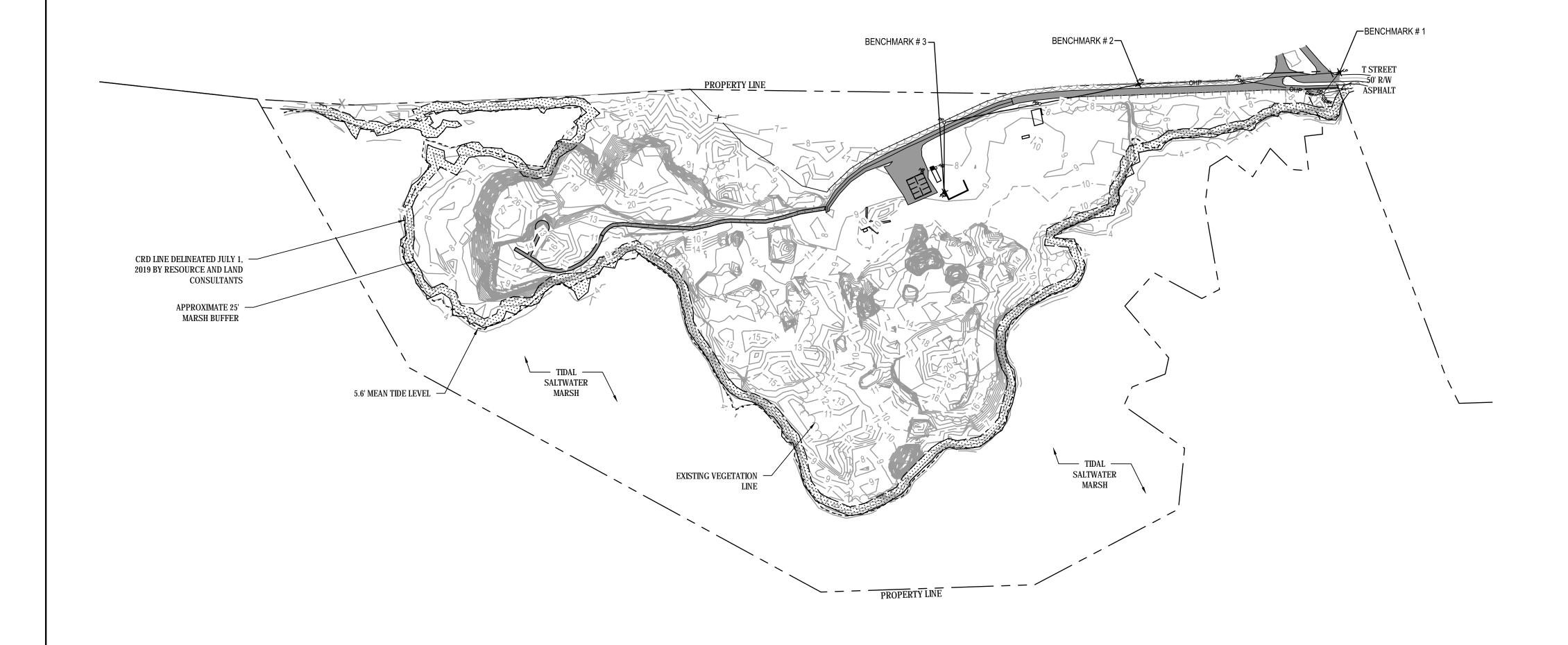
SALTWATER MARSH

√ 5.6' MEAN TIDE LEVEL

APPROXIMATE 25'

MARSH BUFFER

OWNER: BRUNSWICK CELLULOSE LLC PARCEL NUMBER: 03-04993 TAX DISTRICT: CENTRAL GLYNN (DISTRICT 03)



OWNER: KOCH CELLULOSE LLC PARCEL NUMBER: 01-00180 TAX DISTRICT: BRUNSWICK (DISTRICT 01)

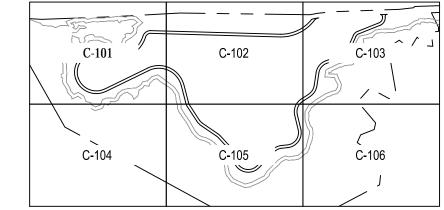
EXISTING BENCHMARKS								
NUMBER	LOCATION	ELEVATION	NORTHING	EASTING				
1	SET IN LIGHT POLE	10.00 (NAVD88)	425534.23	863073.87				
2	SET IN POWER POLE	8.00 (NAVD88)	425335.35	862504.20				
3	SET IN POWER POLE	10.00 (NAVD88)	424862.97	862029.70				

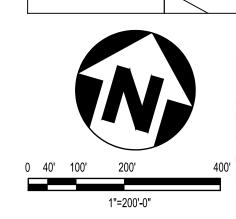
#### GENERAL DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL PERFORM TREE AND BRUSH CLEARING AND GRUBBING UP TO THE PROPOSED LIMITS OF DISTURBANCE AS SHOWN ON THE ES&PC PLANS. A MINIMUM 30' WIDE WOODED BUFFER WILL BE LEFT IN PLACE WHERE ACHIEVABLE.
- PLACE WHERE ACHIEVABLE.

  2. ALL METAL CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE HAULED OFFSITE AND DISPOSED/RECYCLED BY THE CONTRACTOR IN
- ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.

  3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY AUTHORITIES FOR APPROVAL PRIOR TO REMOVING POWER POLES, POWER LINES, WATER SERVICES AND CONNECTIONS.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR MANAGING WOOD DEBRIS GENERATED FROM CLEARING OR EXISTING PILES ONSITE. WOOD DEBRIS SHALL EITHER BE MULCHED FOR USE TO MEET THE GRADES SHOWN ON THIS SHEET OR HAULED OFFSITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 5. GENERAL FILL SUPPLIED BY THE CONTRACTOR SHALL BE USED TO MEET THE GRADES SHOWN ON THIS SHEET WHERE NECESSARY.
- 6. THE CONTRACTOR SHALL HAVE THE LANDFILL AREA SURVEYED FOLLOWING REGRADING AND PRIOR TO PLACEMENT OF FINAL COVER MATERIAL TO ENSURE THAT A MINIMUM OF 2 FEET OF COVER MATERIAL IS INSTALLED.
- 7. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL BUILDINGS, EQUIPMENT, CONVEYOR SYSTEMS, TRAILERS, AND ANY OTHER METAL STRUCTURES PRESENT AT THE SITE AT THE TIME OF CONSTRUCTION COMMENCES. ALL METAL STRUCTURES PRESENT AT THE SITE AT THE TIME CONSTRUCTION COMMENCES
- 8. THE CONTRACTOR SHALL CRUSH ASPHALT AND CONCRETE
  CONSTRUCTION AND DEMOLITION DEBRIS TO WORKABLE SIZE IN ORDER
  TO USE FOR GRADING TO MEET THE GRADES SHOWN ON THE GRADING
  PLAN
- 9. EXISTING GRAVEL AND DIRT ROAD SHALL BE REMOVED AND DISPOSED OF OFF-SITE
- 10. ALL POWER POLES, POWER LINES, LIGHT POLES, AND TELEPHONE PEDESTALS SHALL BE REMOVED FROM WITHIN THE LIMITS OF CONSTRUCTION BY THE CONTRACTOR
- 11. ALL WATER SERVICE AND HOSE BIBBS SHALL BE REMOVED FROM WITHIN THE LIMITS OF CONSTRUCTION BY THE CONTRACTOR
- 12. TOTES, TANKS, AND CONTAINERS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS PRIOR TO PERFORMING ANY GRADING WORK IN THE AREAS WHERE THESE OBJECTS ARE PRESENT
- 13. EXISTING CHAIN LINK FENCE SHALL BE REMOVED FROM WITHIN THE LIMITS OF CONSTRUCTION BY THE CONTRACTOR
- 14. THE EXISTING INFORMATION SHOWN IN THE PLANS MIGHT REFLECT WORK THAT HAS ALREADY BEEN PERFORMED BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

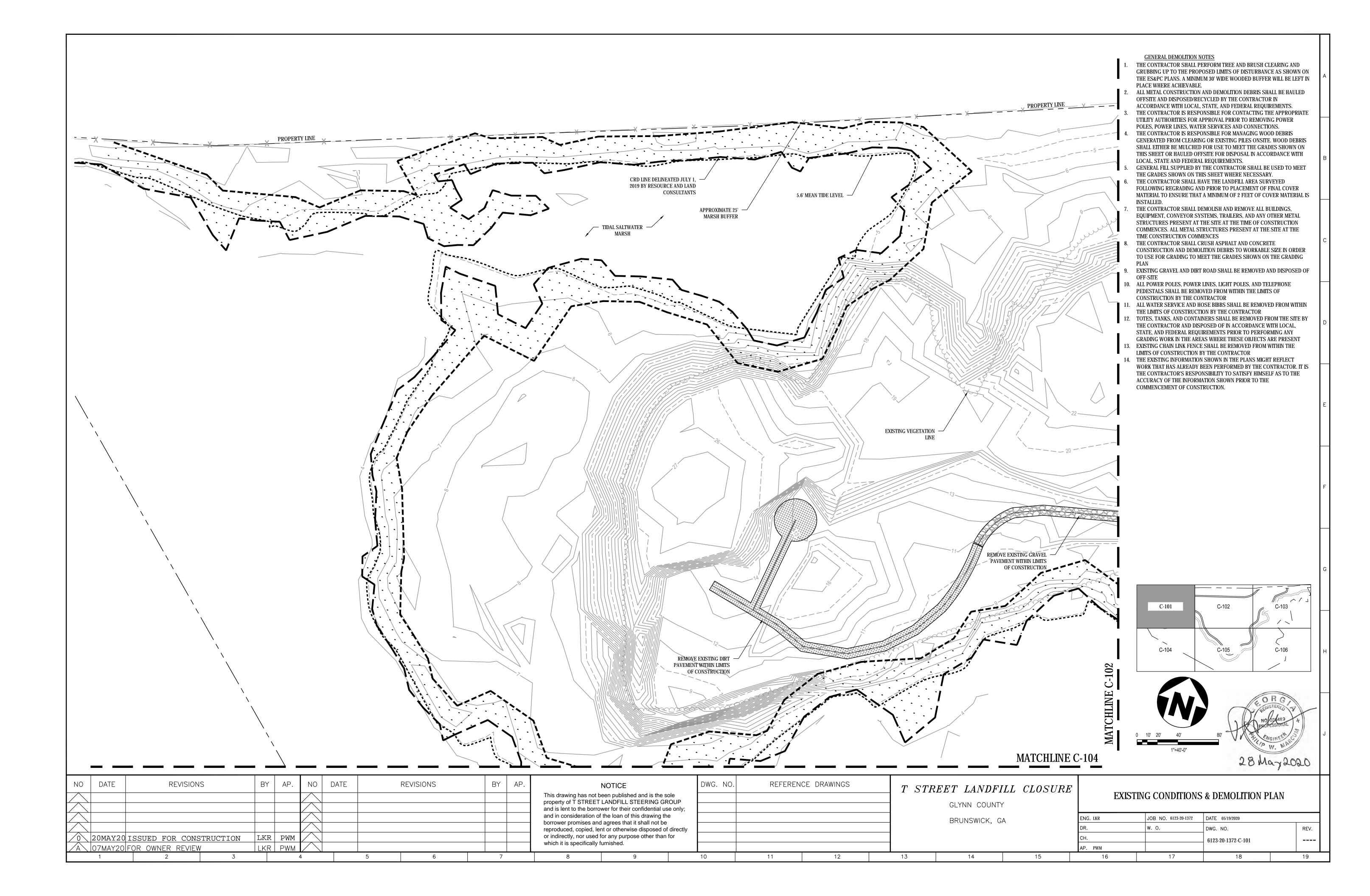


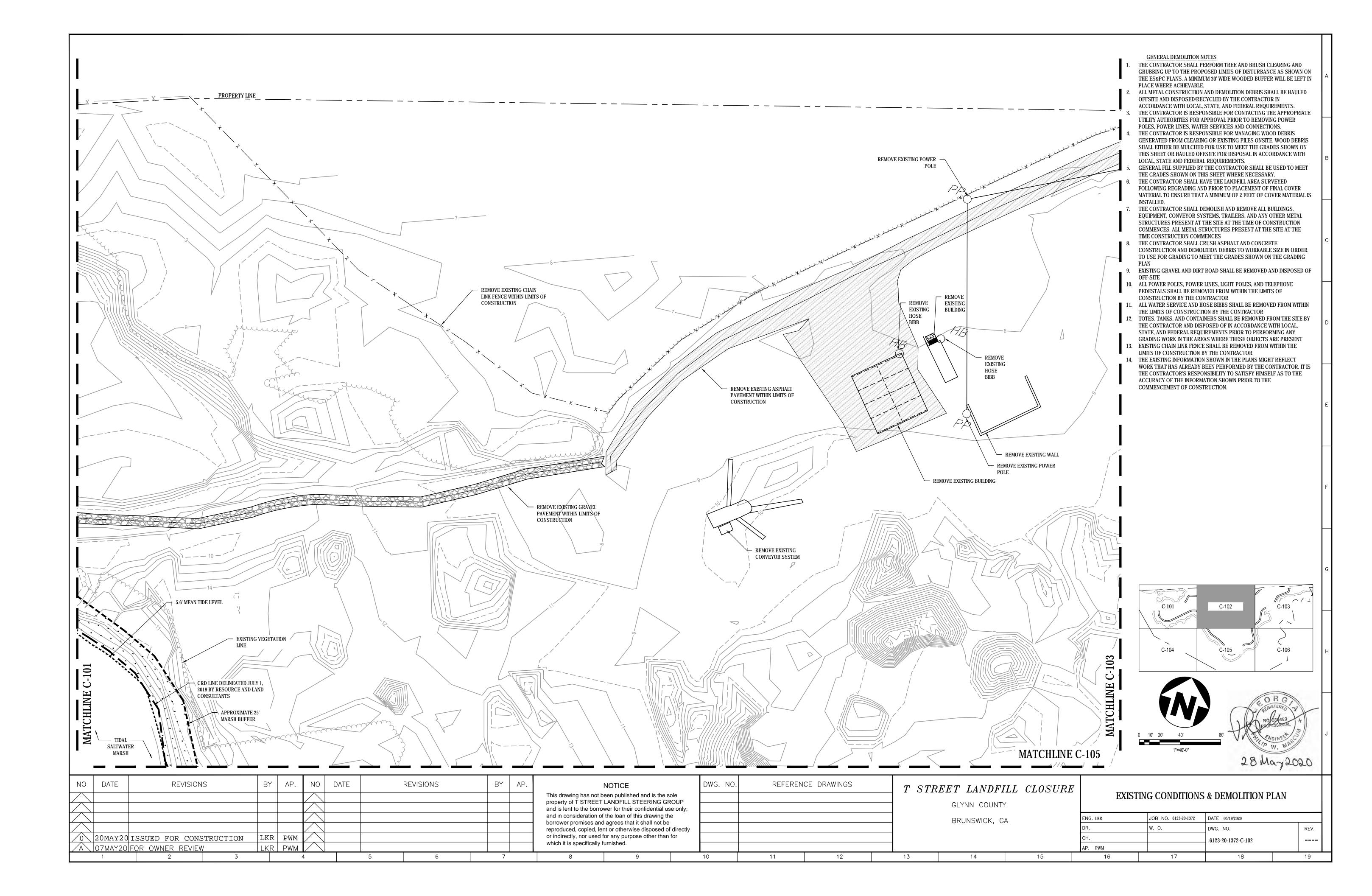


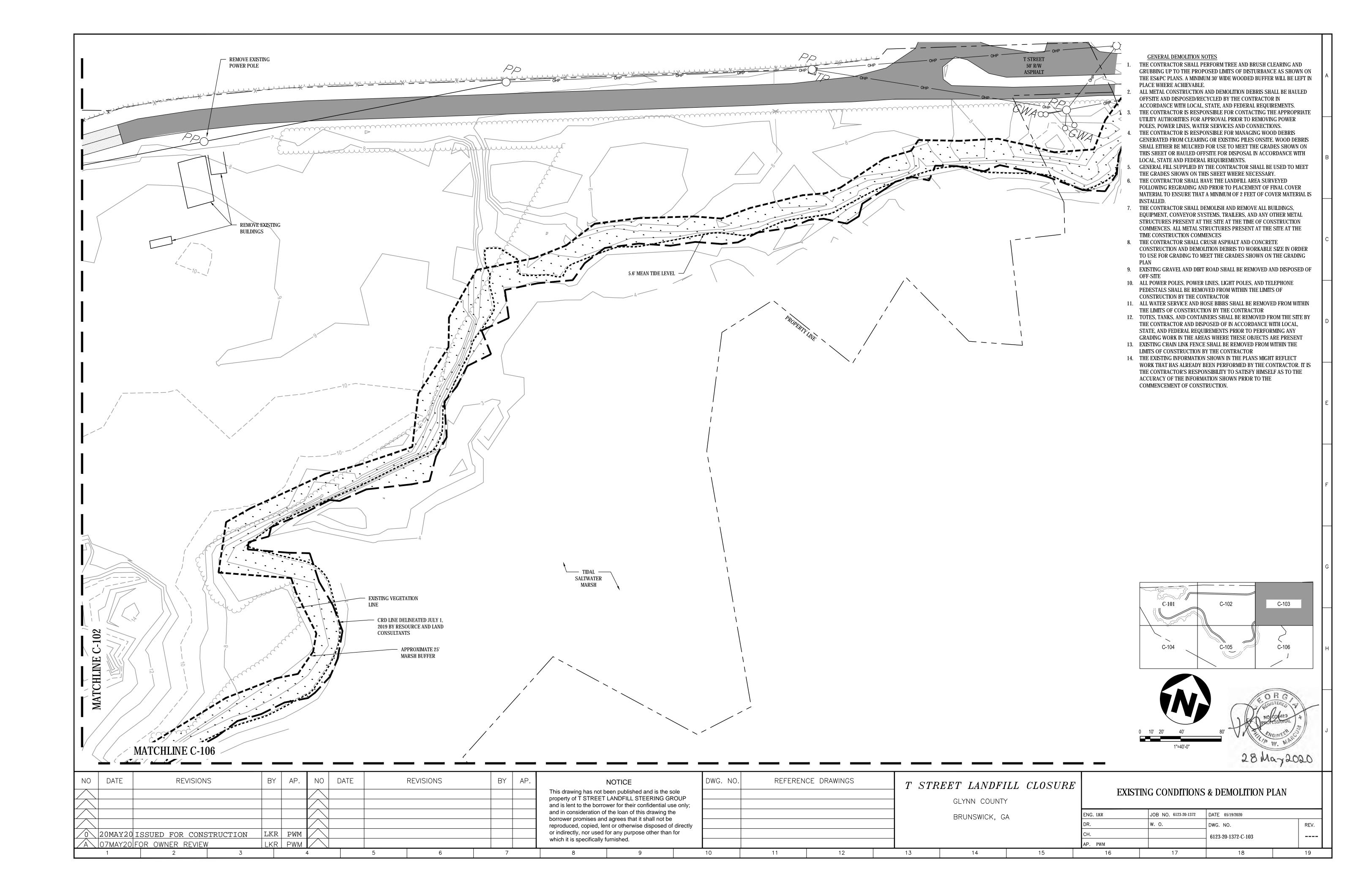
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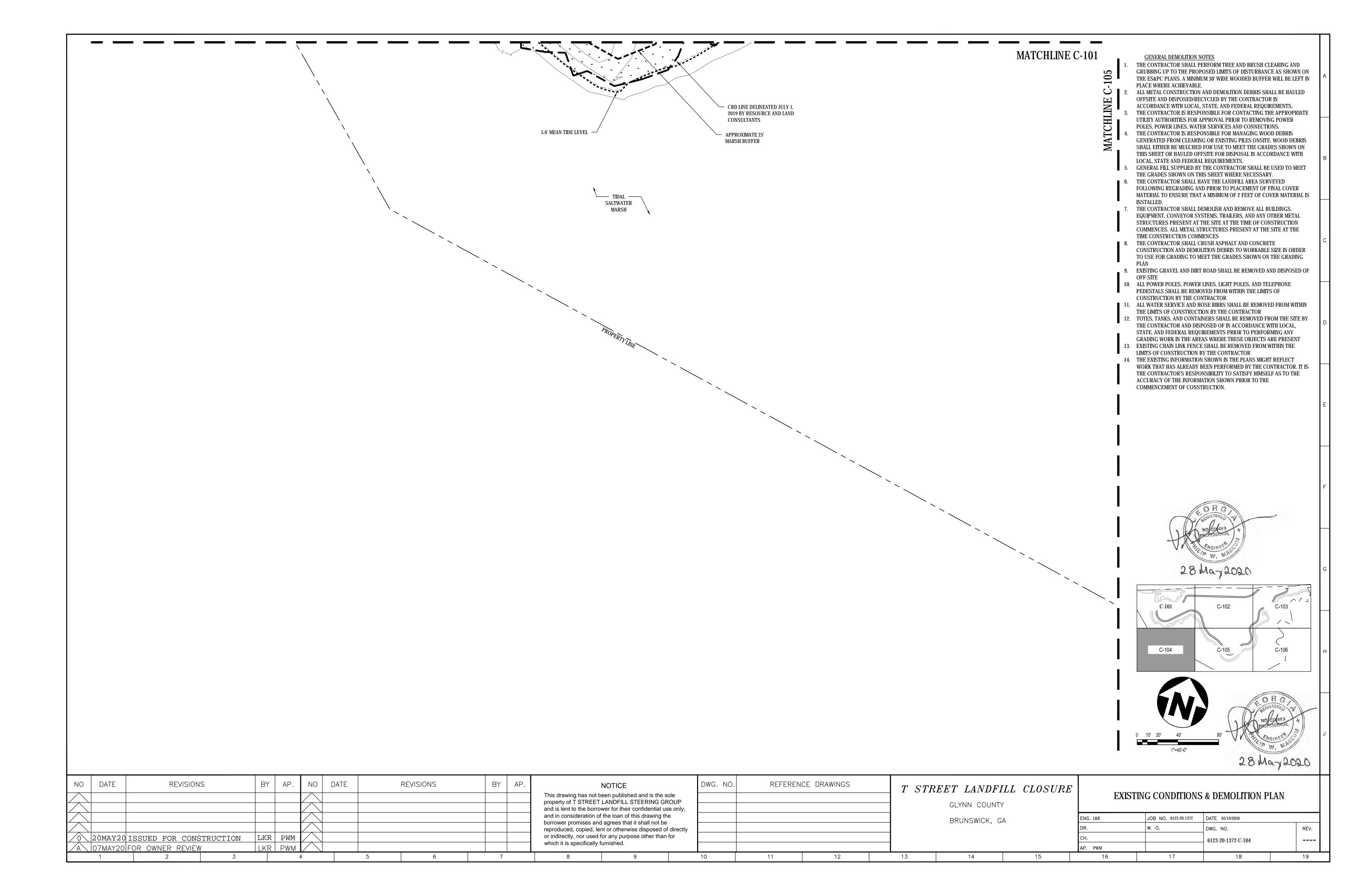
28 May 2020

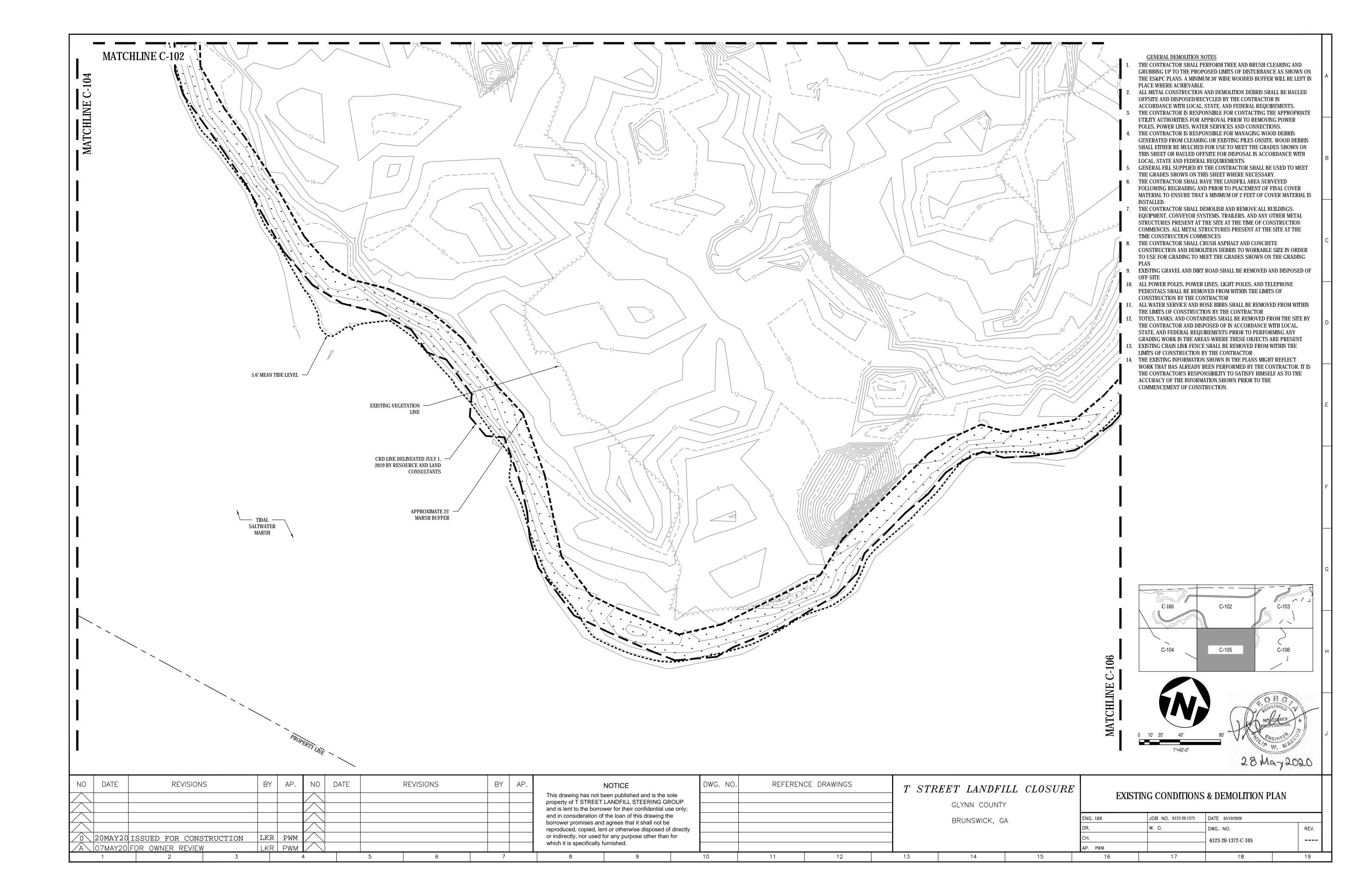
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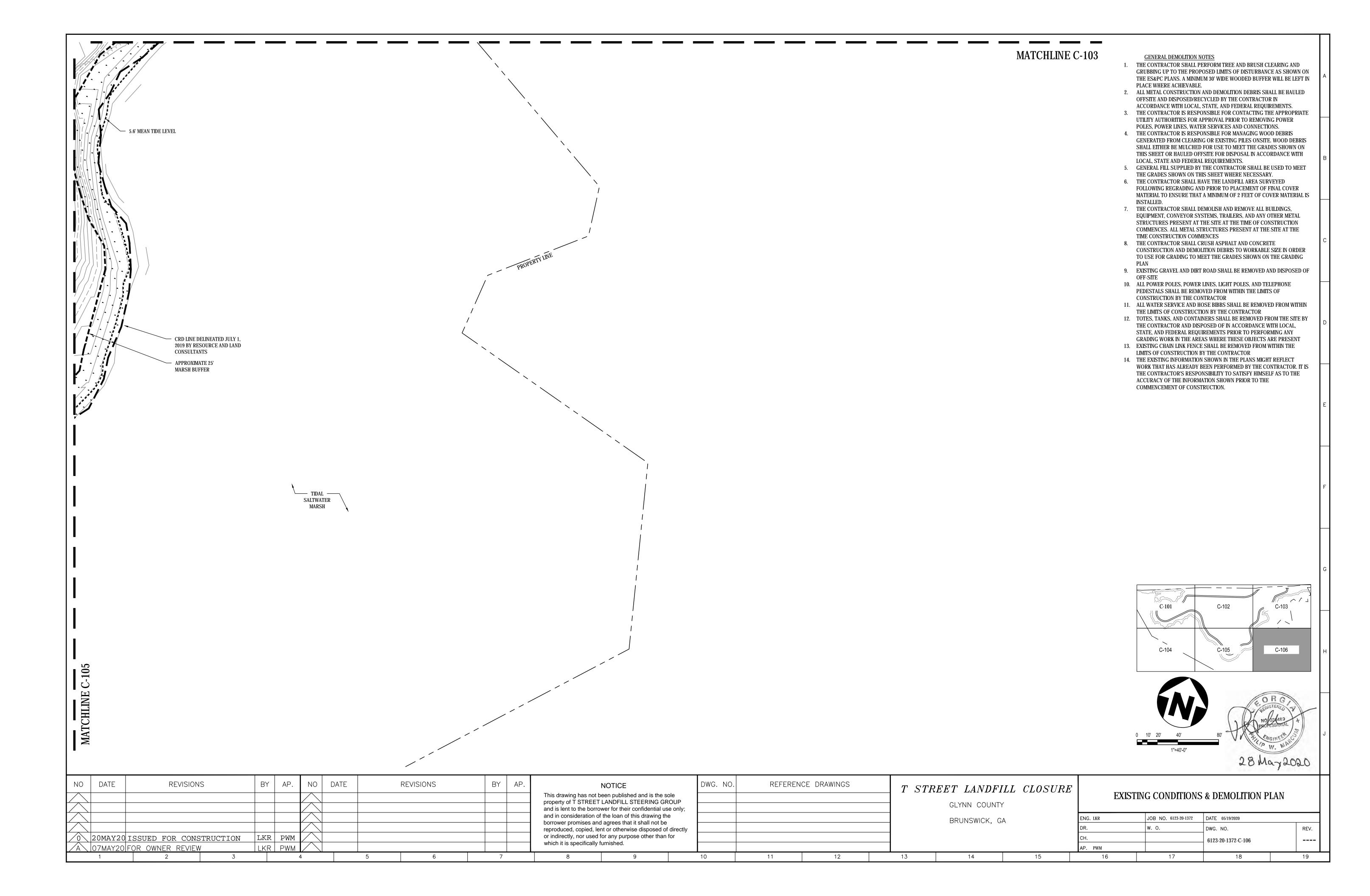


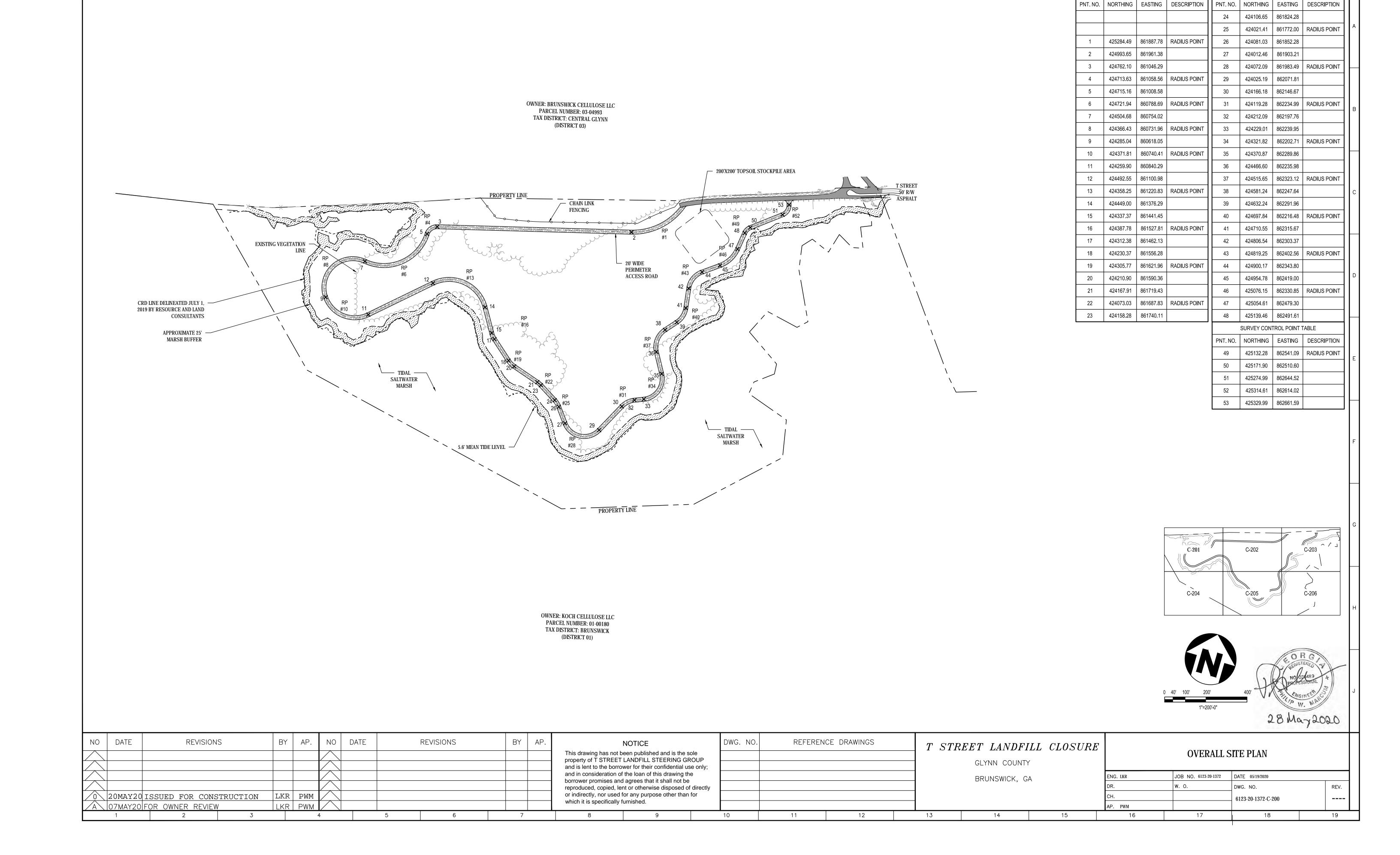






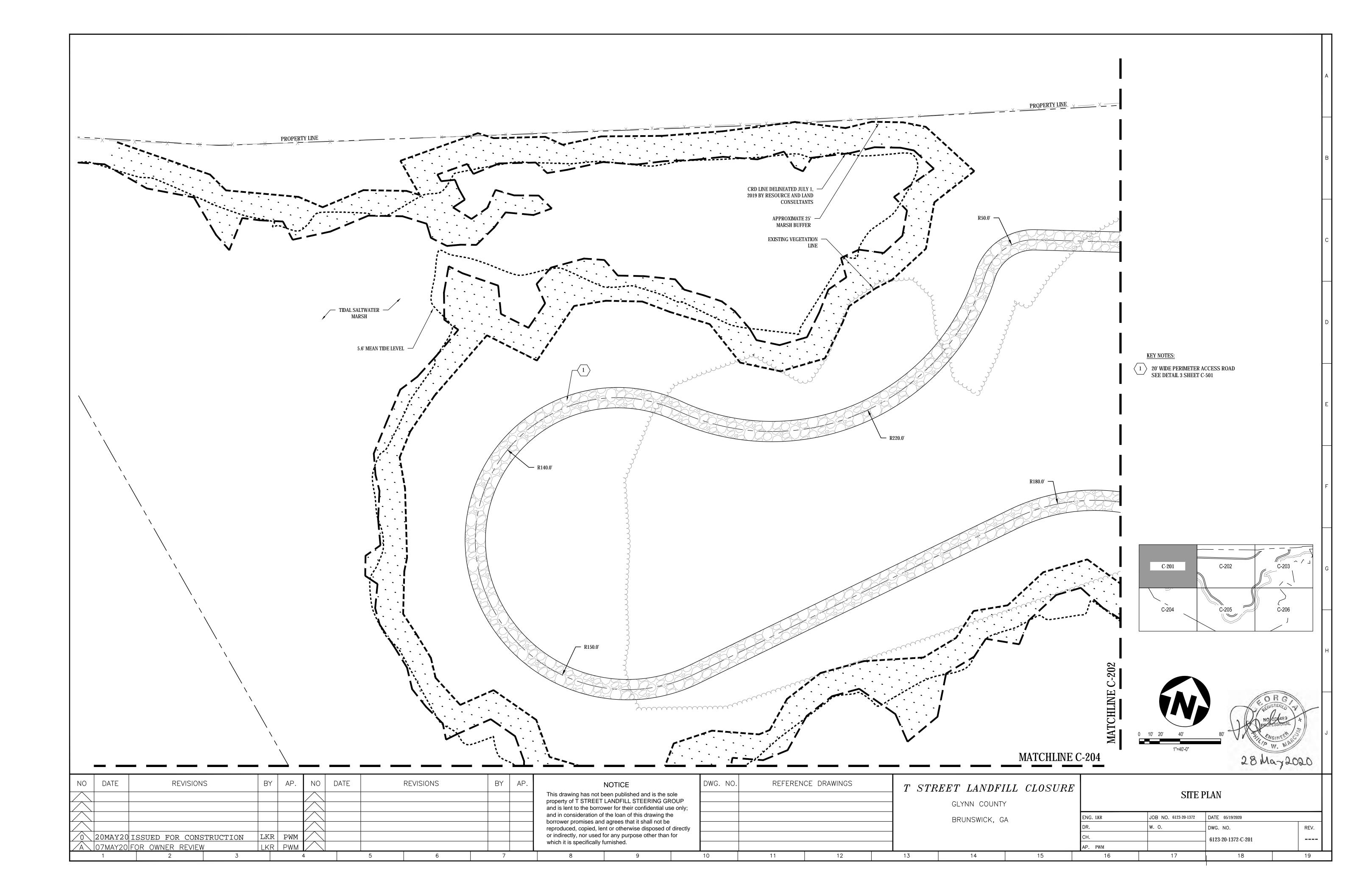


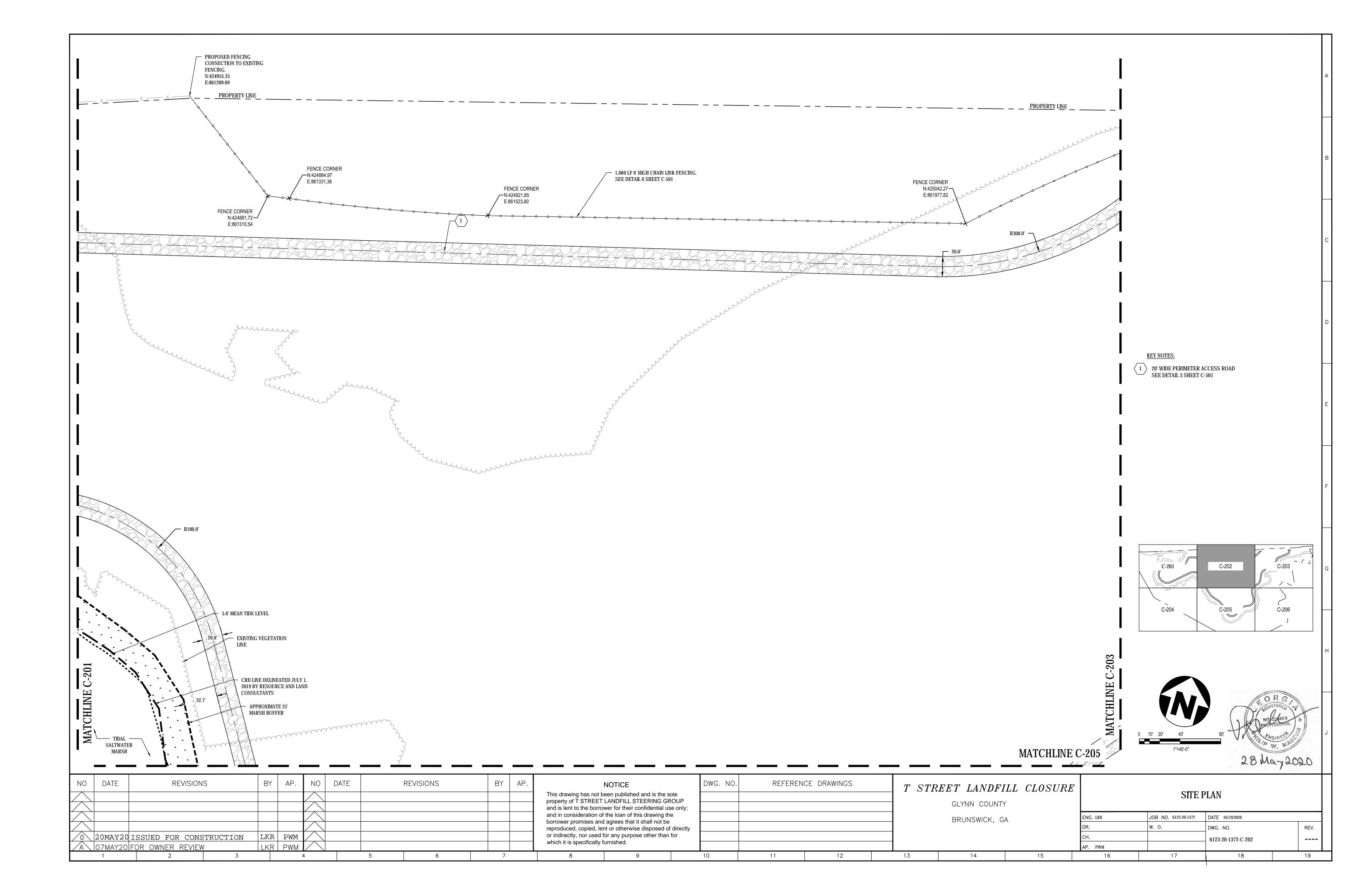


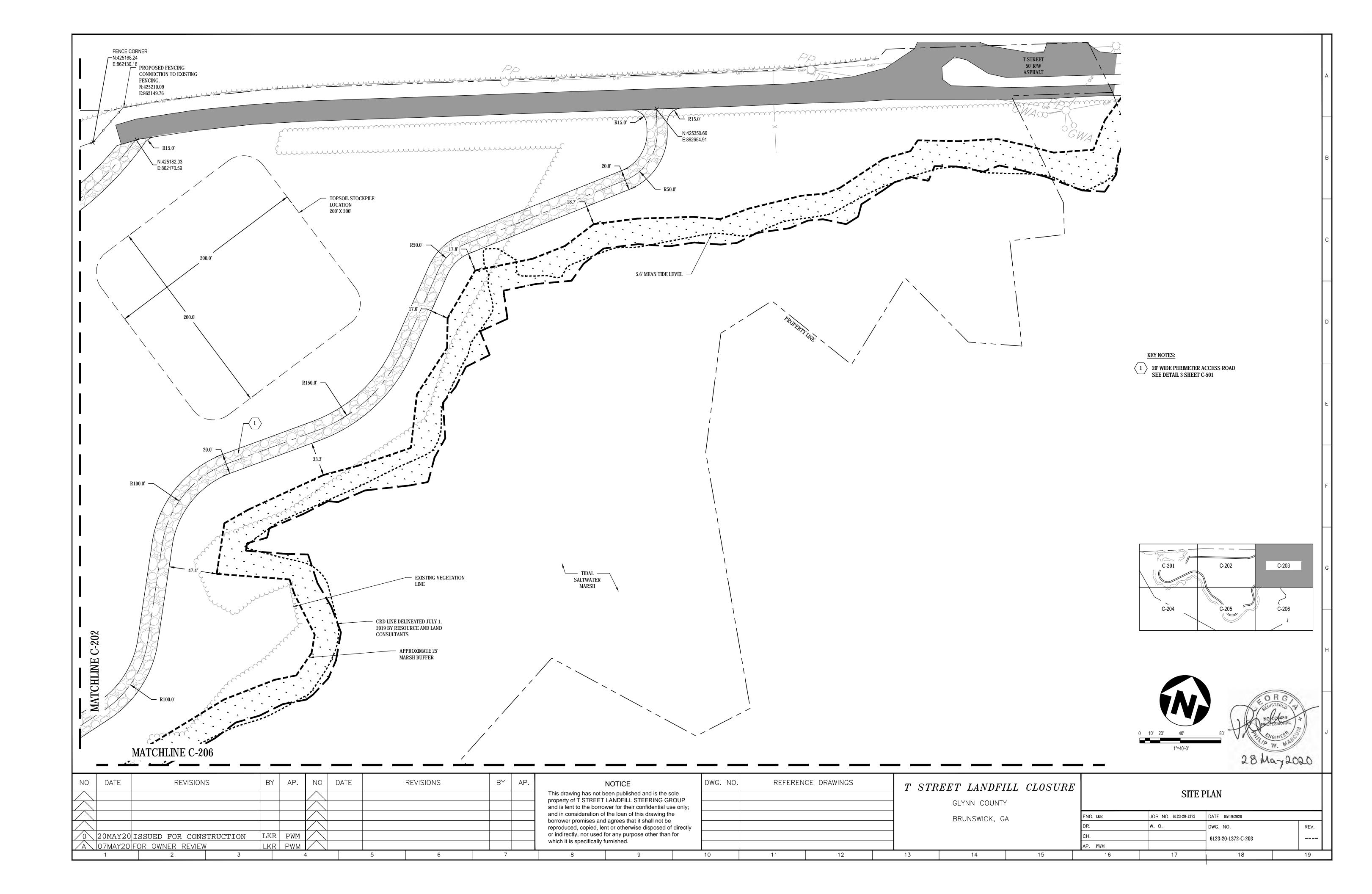


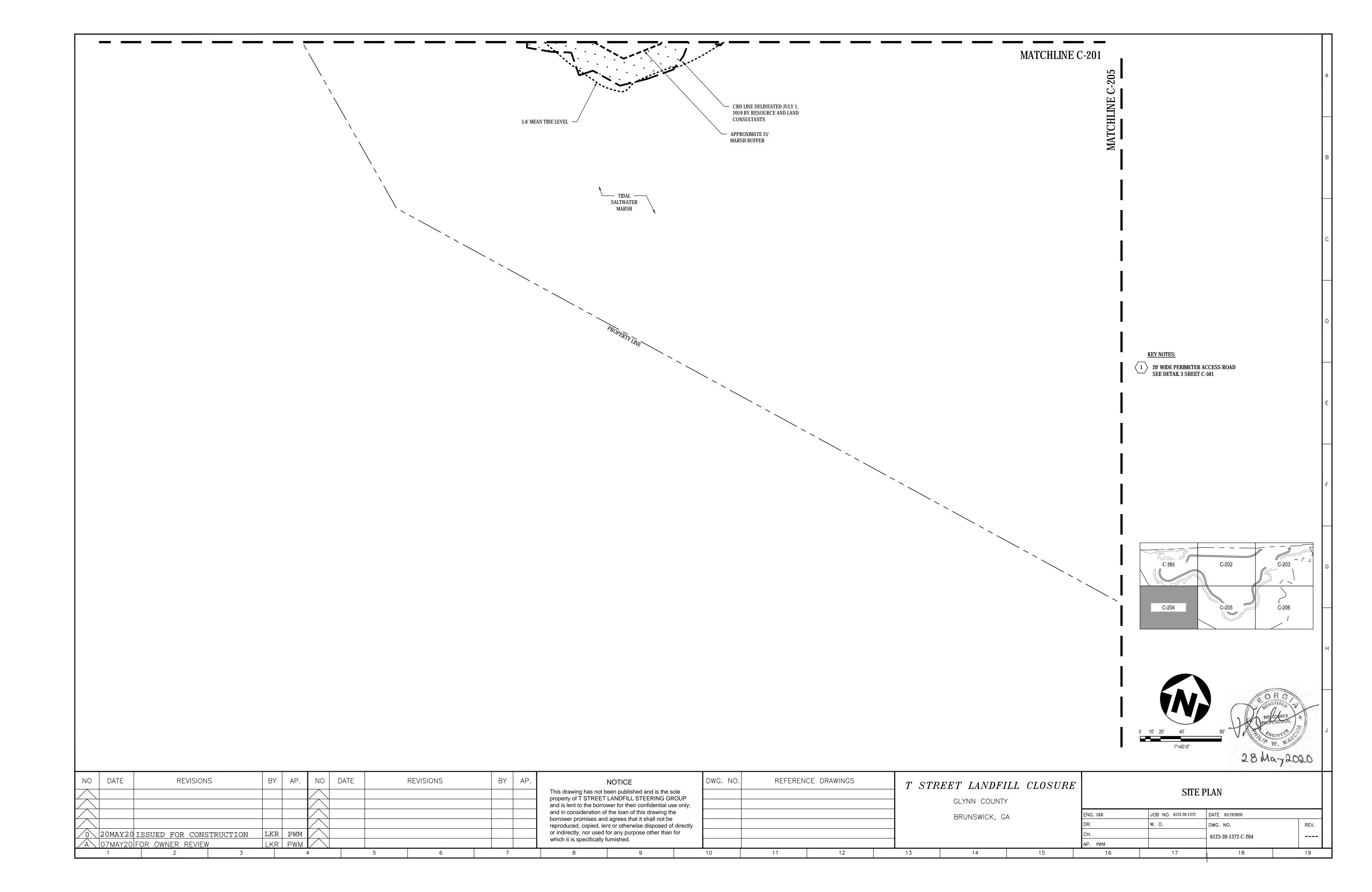
SURVEY CONTROL POINT TABLE

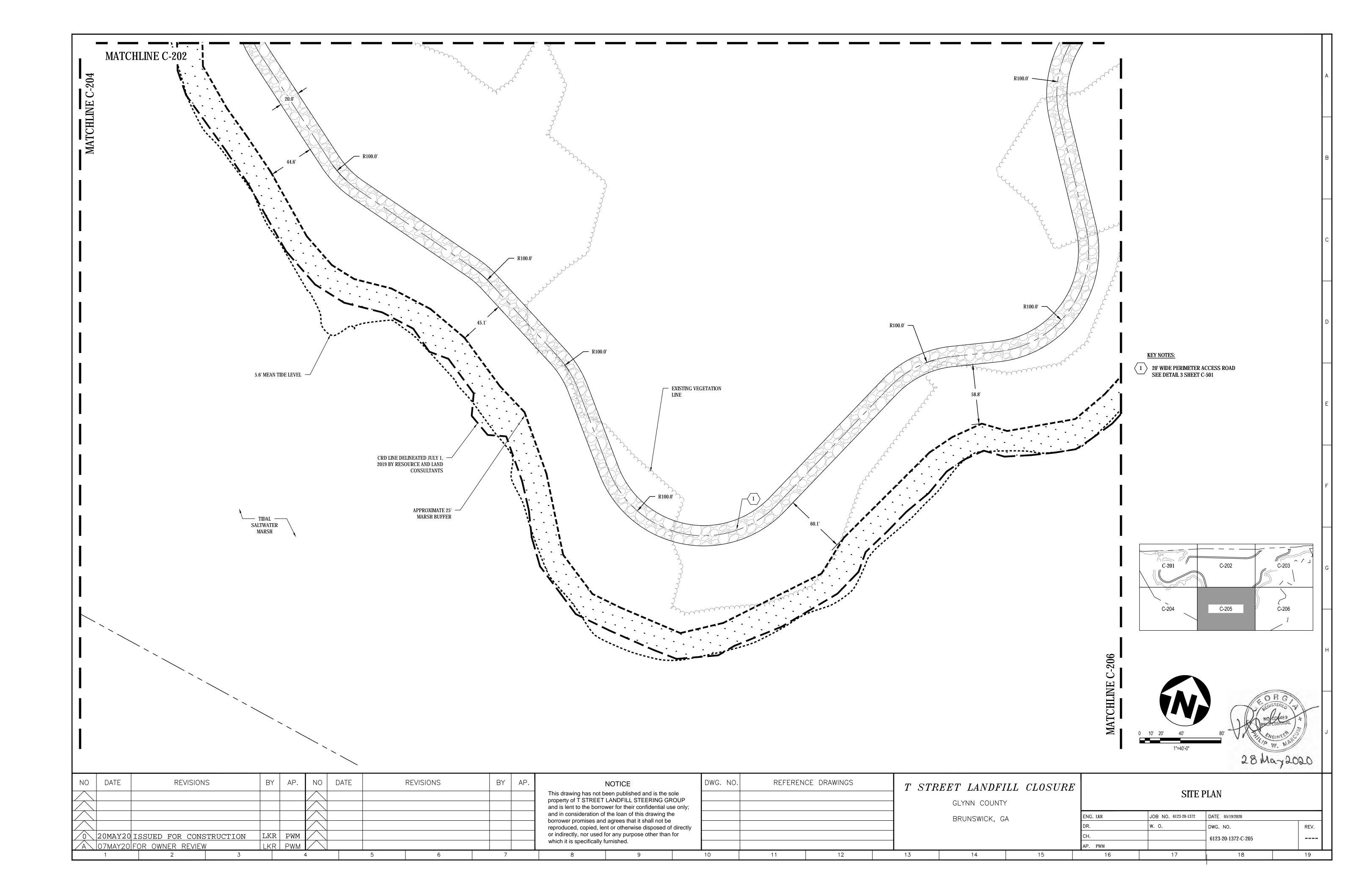
SURVEY CONTROL POINT TABLE

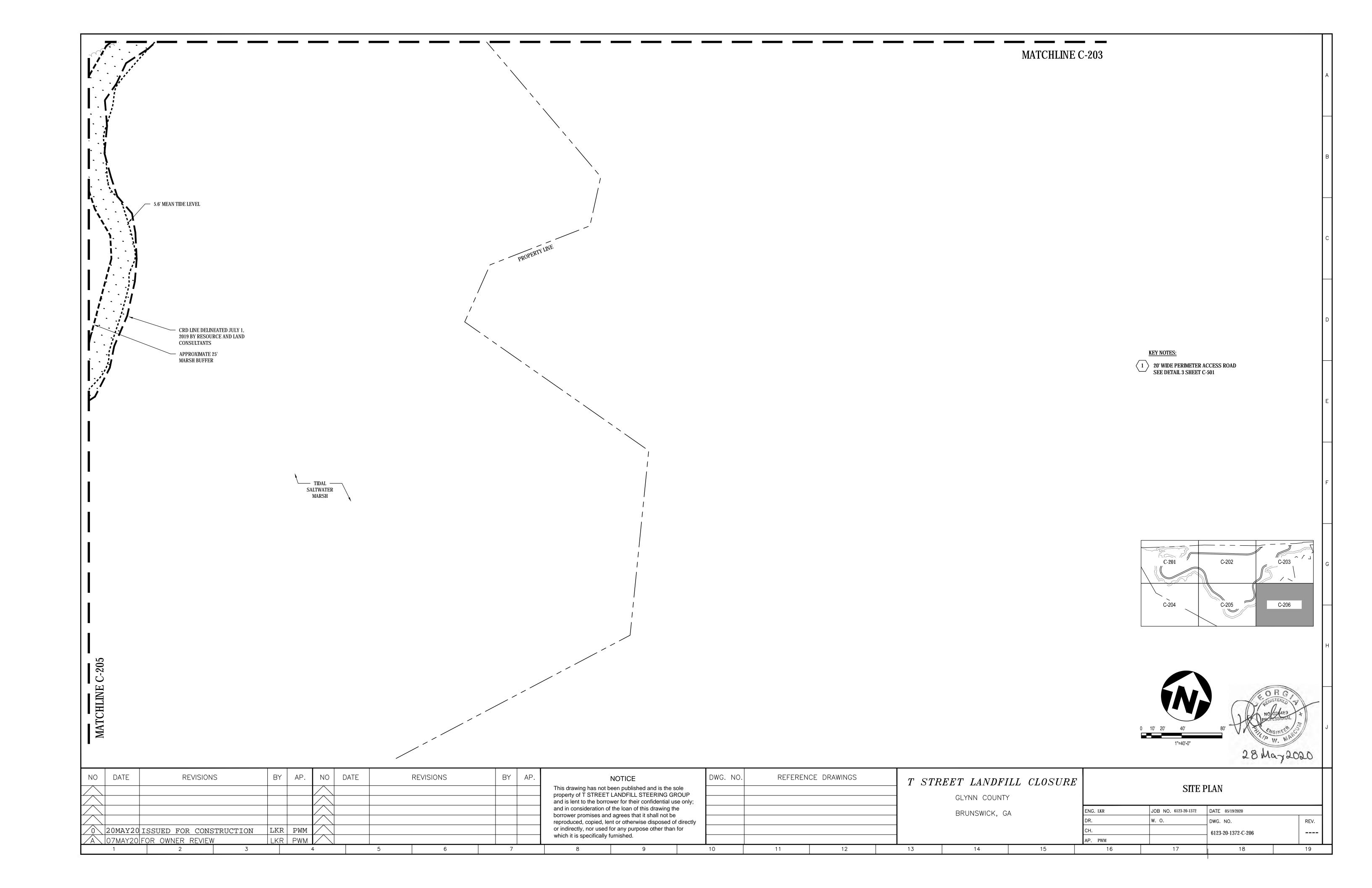




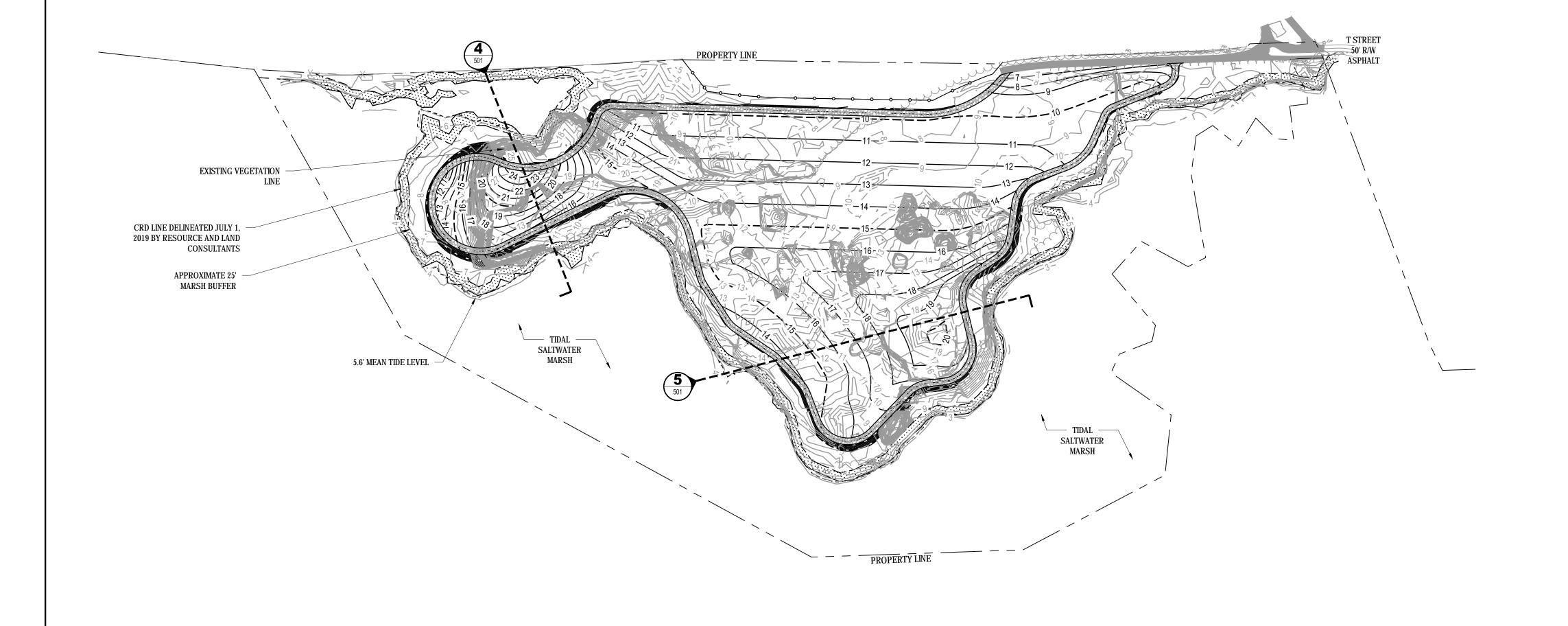








OWNER: BRUNSWICK CELLULOSE LLC PARCEL NUMBER: 03-04993 TAX DISTRICT: CENTRAL GLYNN (DISTRICT 03)



OWNER: KOCH CELLULOSE LLC PARCEL NUMBER: 01-00180 TAX DISTRICT: BRUNSWICK (DISTRICT 01)

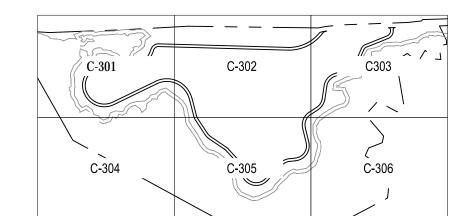
#### **GRADING NOTES**

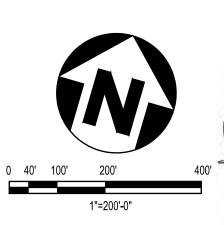
- 1. THE CONTRACTOR SHALL GRADE THE SITE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
- 2. IF THE GRAVEL ROAD IS NOT CONSTRUCTION IMMEDIATELY AFTER THE INITIAL SUBGRADE PREPARATION, THE CONTRACTOR SHALL BE REQUIRED TO PROTECT THE CONTRACTOR SHALL BE REQUIRED.
- TO RESTORE THE SUBGRADE PRIOR TO THE PLACEMENT OF THE ROAD.

  3. ALL SPOT ELEVATIONS AND FINISH GRADES ARE TO THE TOP OF THE LANDFILL CAP AND TOP OF GRAVEL ROAD.
- 4. DEBRIS OUTSIDE OF THE GRADING LIMITS AND INSIDE OF THE 25' MARSH BUFFER ARE TO BE REMOVED.
- 5. THE AREA BETWEEN THE GRADING LIMITS AND THE 25' MARSH BUFFER IS TO BE GRADED TO DRAIN AS NECESSARY AFTER REMOVAL OF DEBRIS.

#### LEGEND

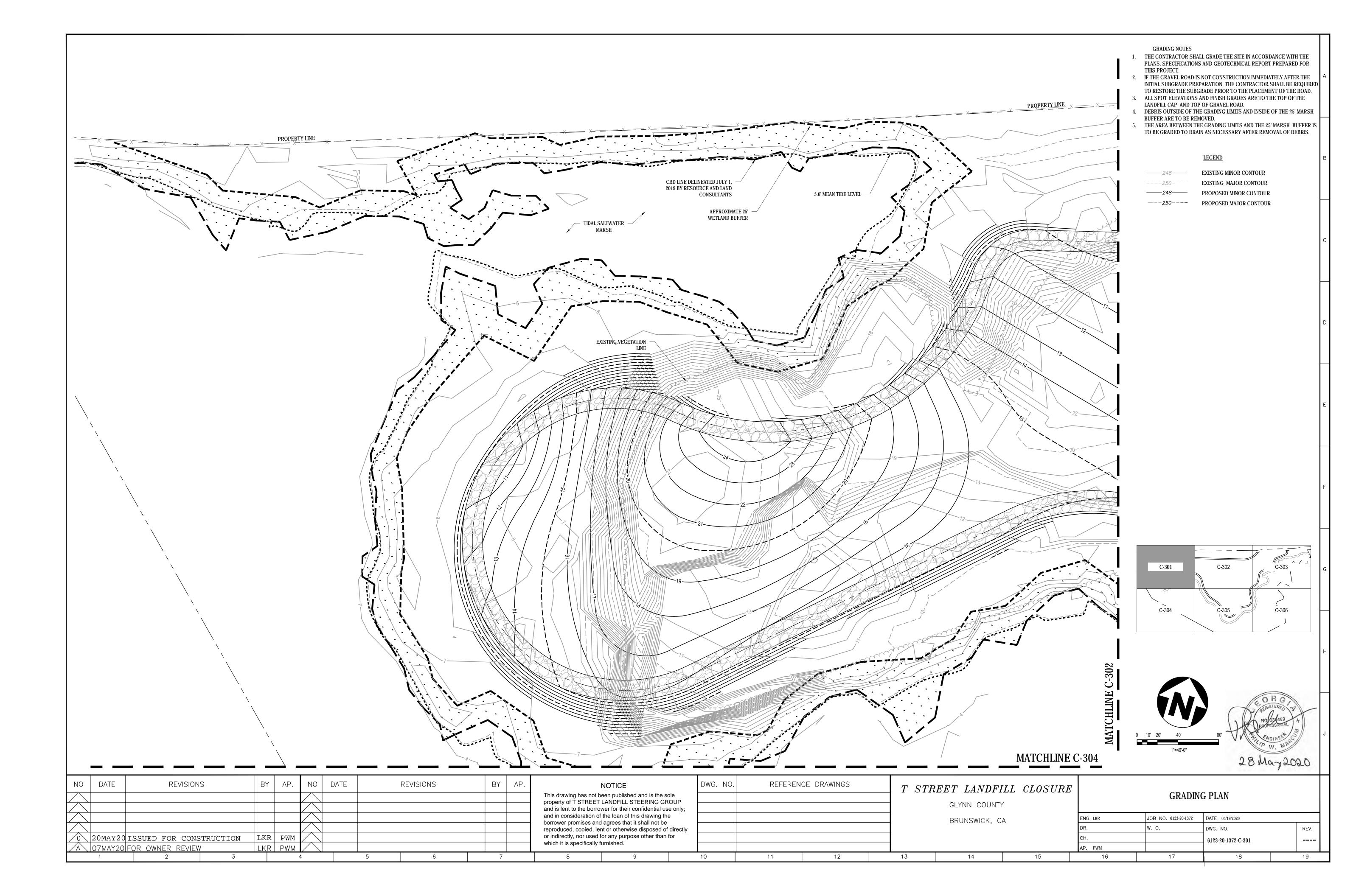
<del>248</del>	EXISTING MINOR CONTOUR
250	EXISTING MAJOR CONTOUR
248	PROPOSED MINOR CONTOUR
<i>250</i>	PROPOSED MAJOR CONTOUR

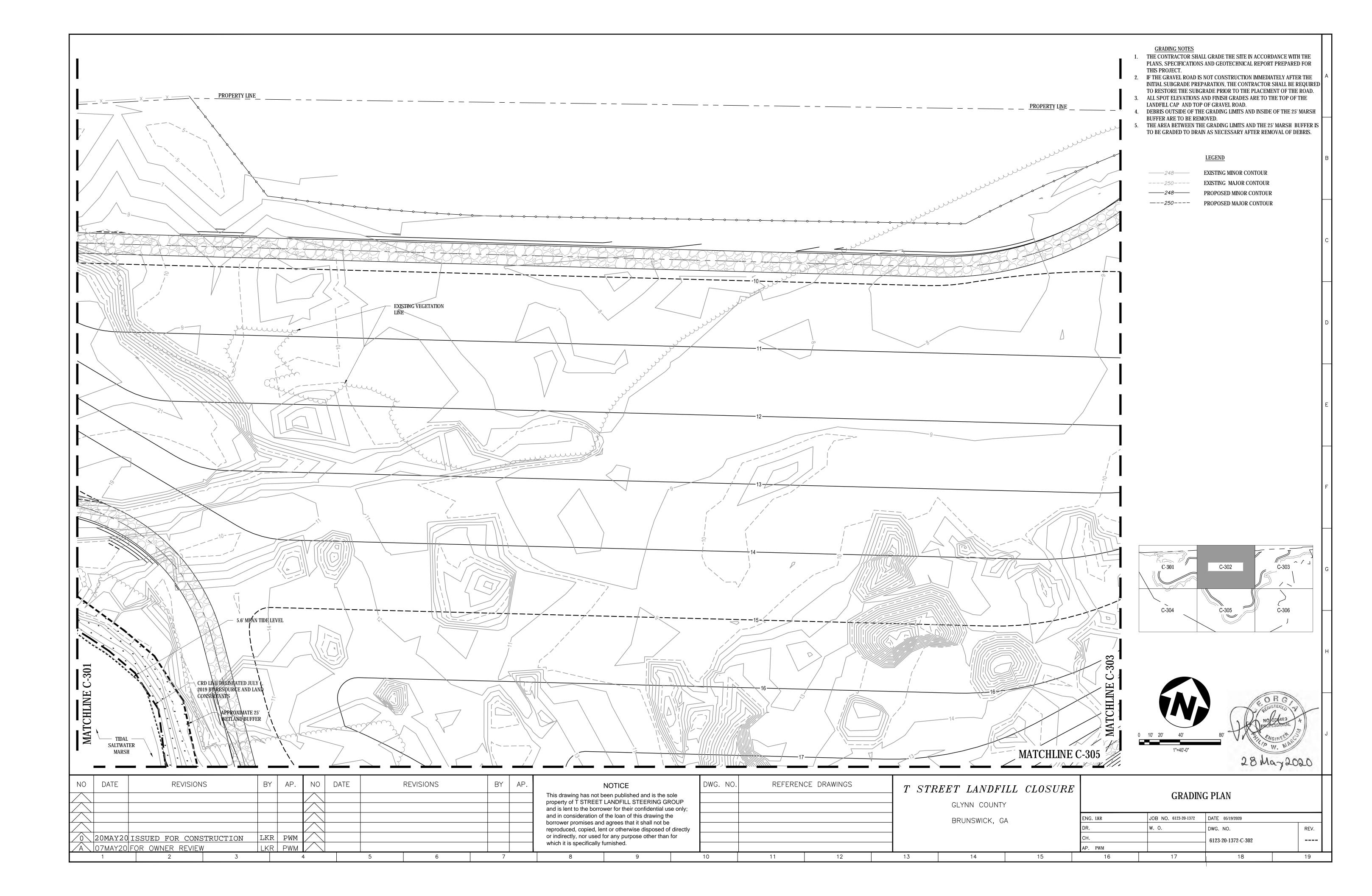


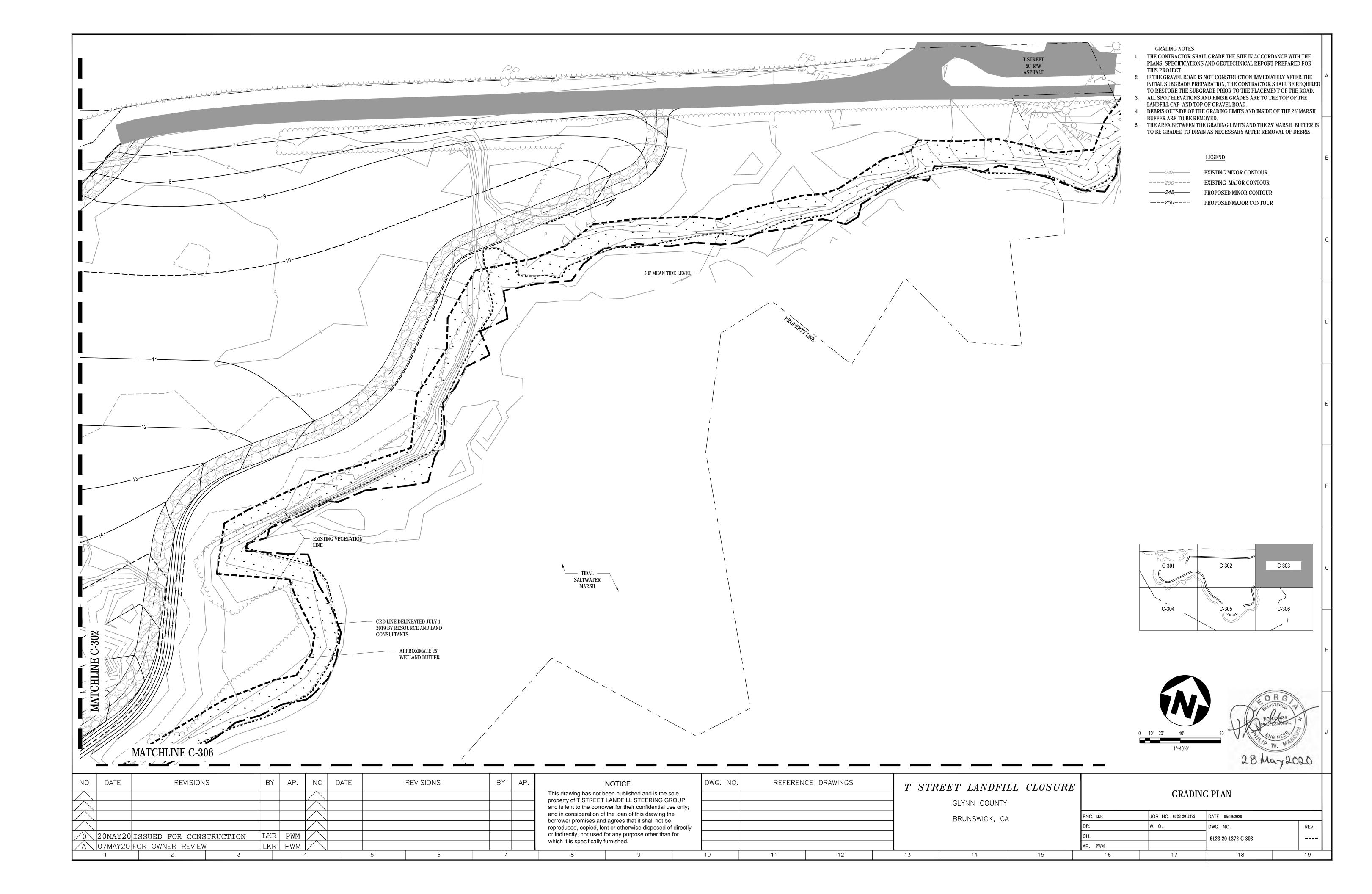


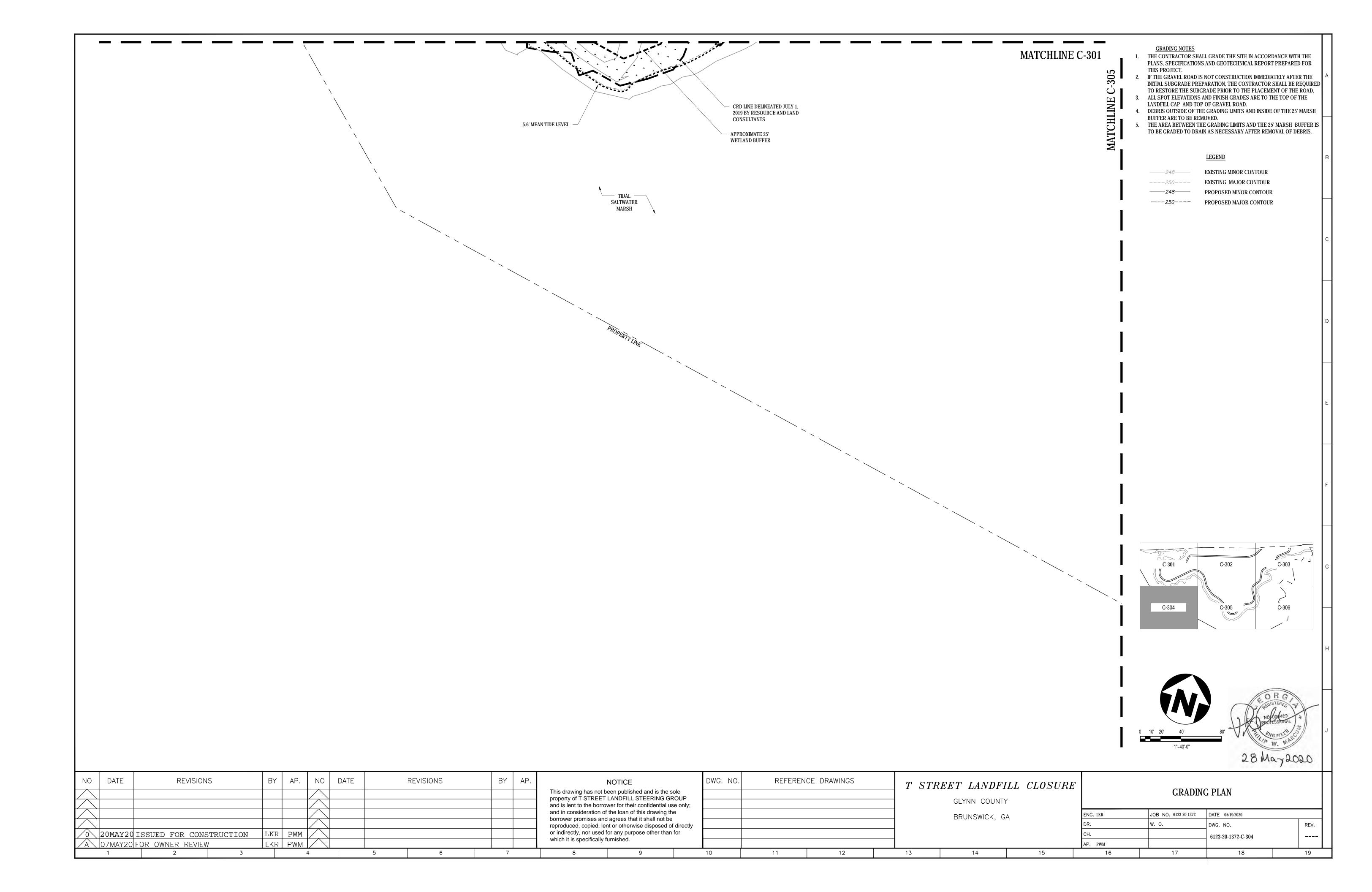
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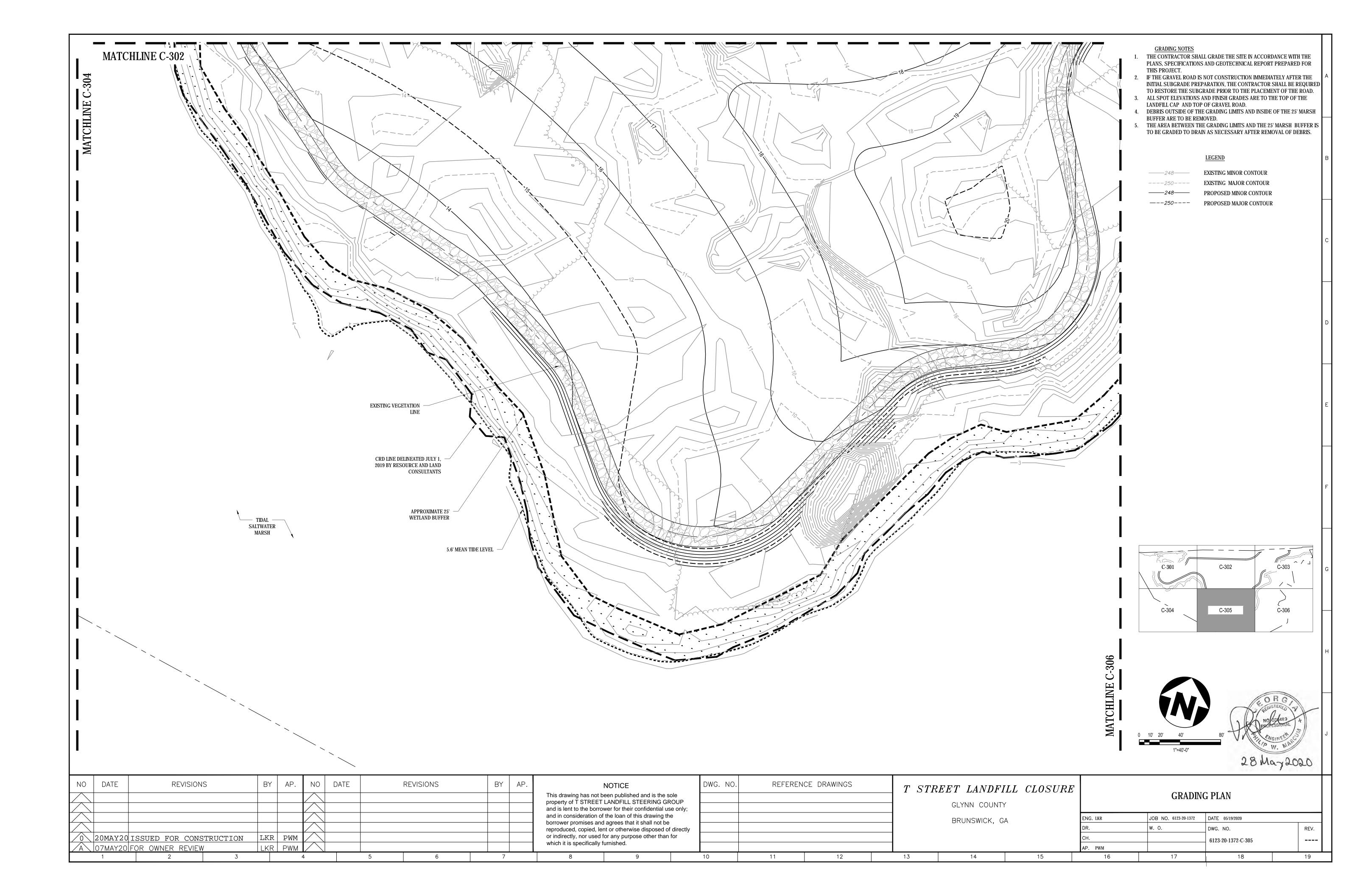
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				and in consideration of the loan of this drawing the				BRUNSWICK, G	SA	ENG. LKR	JOB NO. 6123-20-1372	DATE 05/19/2020			
				borrower promises and agrees that it shall not be reproduced, copied, lent or otherwise disposed of directly				Brondmon, c		DR.	W. O.	DWG. NO.	REV.		
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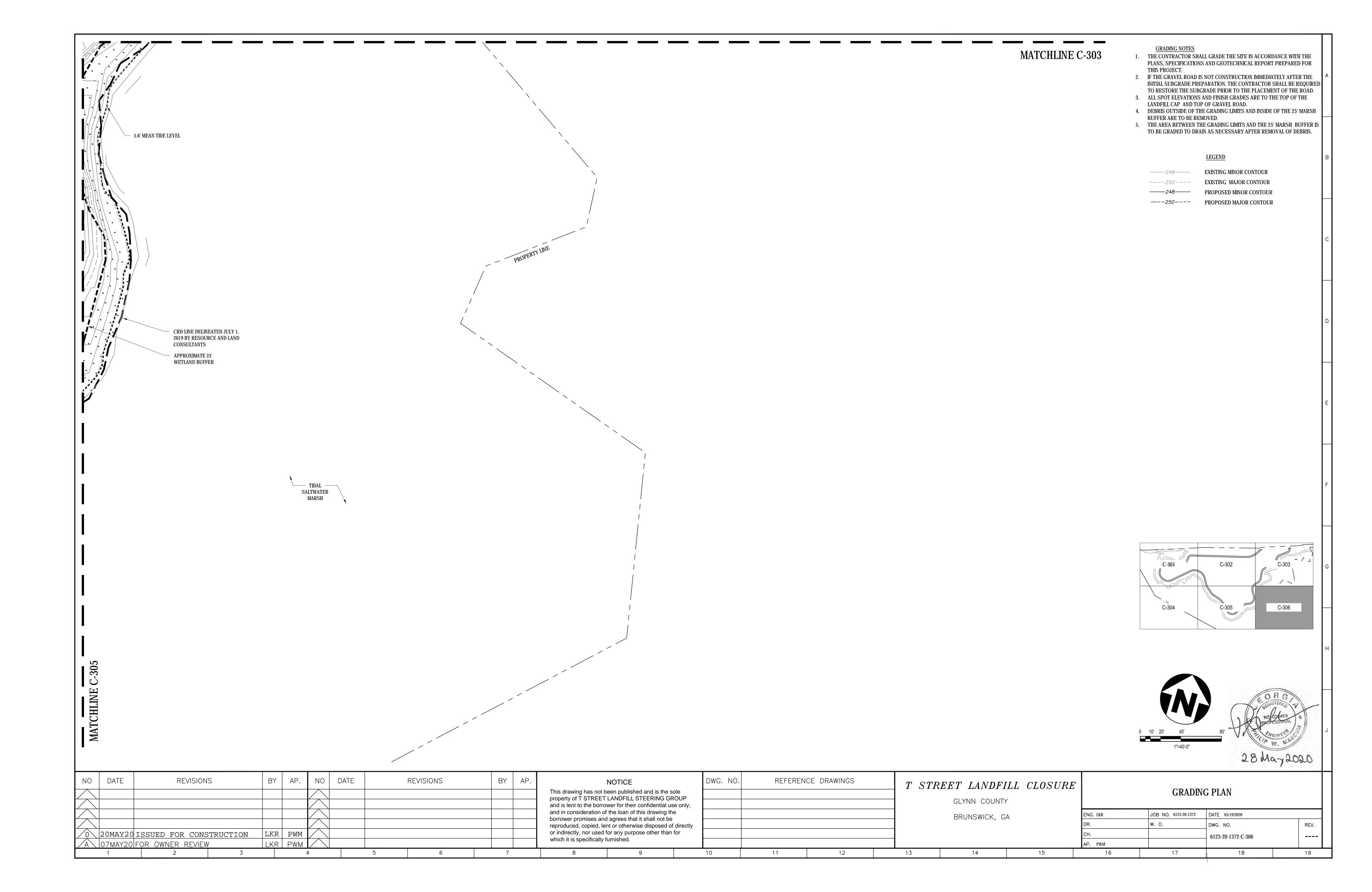




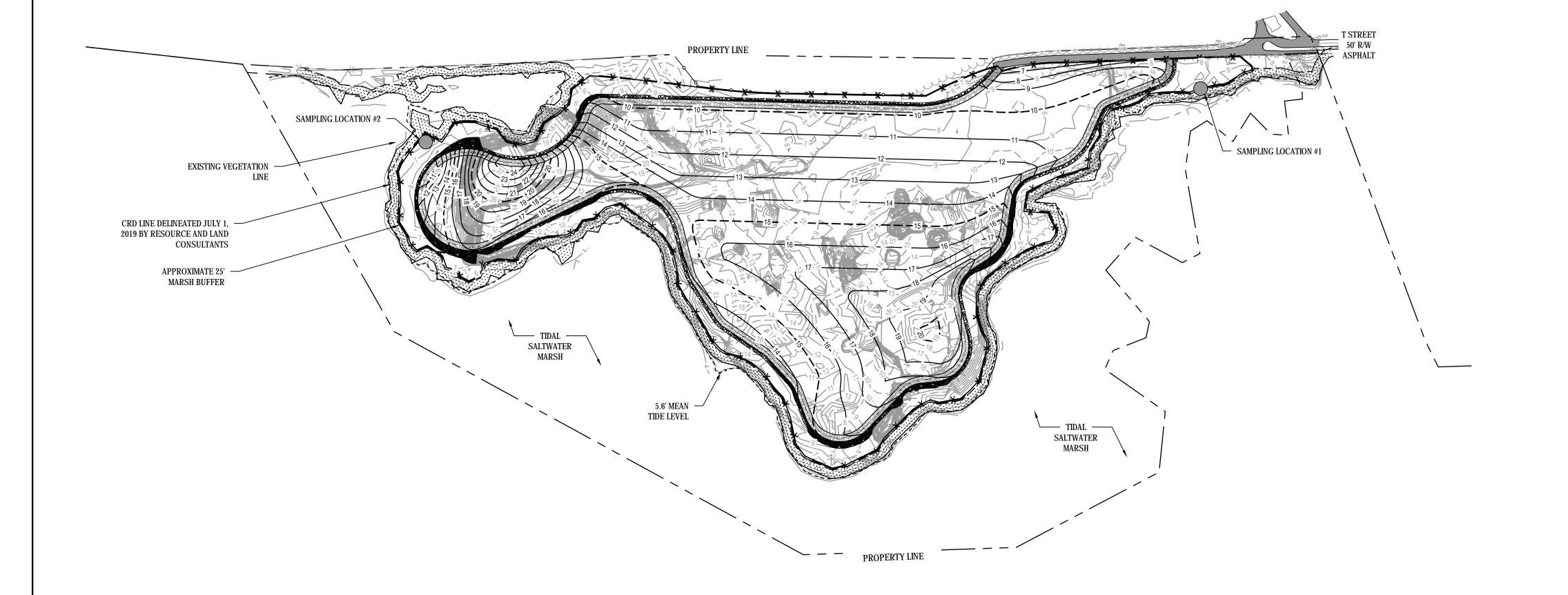








OWNER: BRUNSWICK CELLULOSE LLC PARCEL NUMBER: 03-04993 TAX DISTRICT: CENTRAL GLYNN (DISTRICT 03)



OWNER: KOCH CELLULOSE LLC PARCEL NUMBER: 01-00180 TAX DISTRICT: BRUNSWICK (DISTRICT 01)

CONSTRUCTION SEQUENCE

- INSTALL CONSTRUCTION ENTRANCE.
- CLEAR AND GRUB FOR SILT FENCE AND INSTALL SILT FENCE
- 3. PERFORM SITE DEMOLITION ACTIVITIES AS SHOWN ON SHEET 4. 4. COMPLETE CLEARING AND GRUBBING UP TO THE PROPOSED LIMITS OF CONSTRUCTION.
- 5. PERFORM SITE REGRADING IN ACCORDANCE WITH THE FINISH GRADES.
- 6. INSTALL FINAL COVER IN ACCORDANCE WITH THE FINISH GRADES.
- CONSTRUCT PERIMETER ACCESS ROAD PER SITE PLAN.
- 8. APPLY SEED AND MULCH TO ESTABLISH PERMANENT STABILIZATION OVER FINAL COVER AND DISTURBED AREA.
- 9. INSTALL RIP RAP ALONG THE TOE OF SLOPE OF THE LANDFILL.
- 10. REMOVE SEDIMENT CONTROLS AFTER PERMANENT VEGETATION IS ESTABLISHED.

THIS INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

24-HOUR CONTACT: GARROW ALBERSON

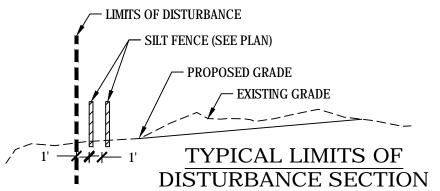
PHONE: (912) 267-5540 EMAIL: GALBERSON@CITYOFBRUNSWICK-GA.GOV

TOTAL SITE AREA: ±40 ACRES
TOTAL DISTURBED AREA: ±33 ACRES

 $\frac{\text{SILT FENCE AREA}}{\text{DRAINAGE AREA}} = 32.26 \text{ ACRES (TO SILT FENCE)}$ 

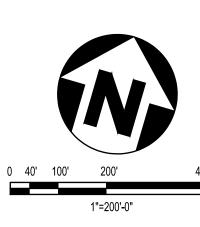
SILT FENCE CALCULATION SILT FENCE REQ'D =100'/0.25 AC X 32.26 AC = 12,904 LF SILT FENCE PROVIDED = 14,207 LF





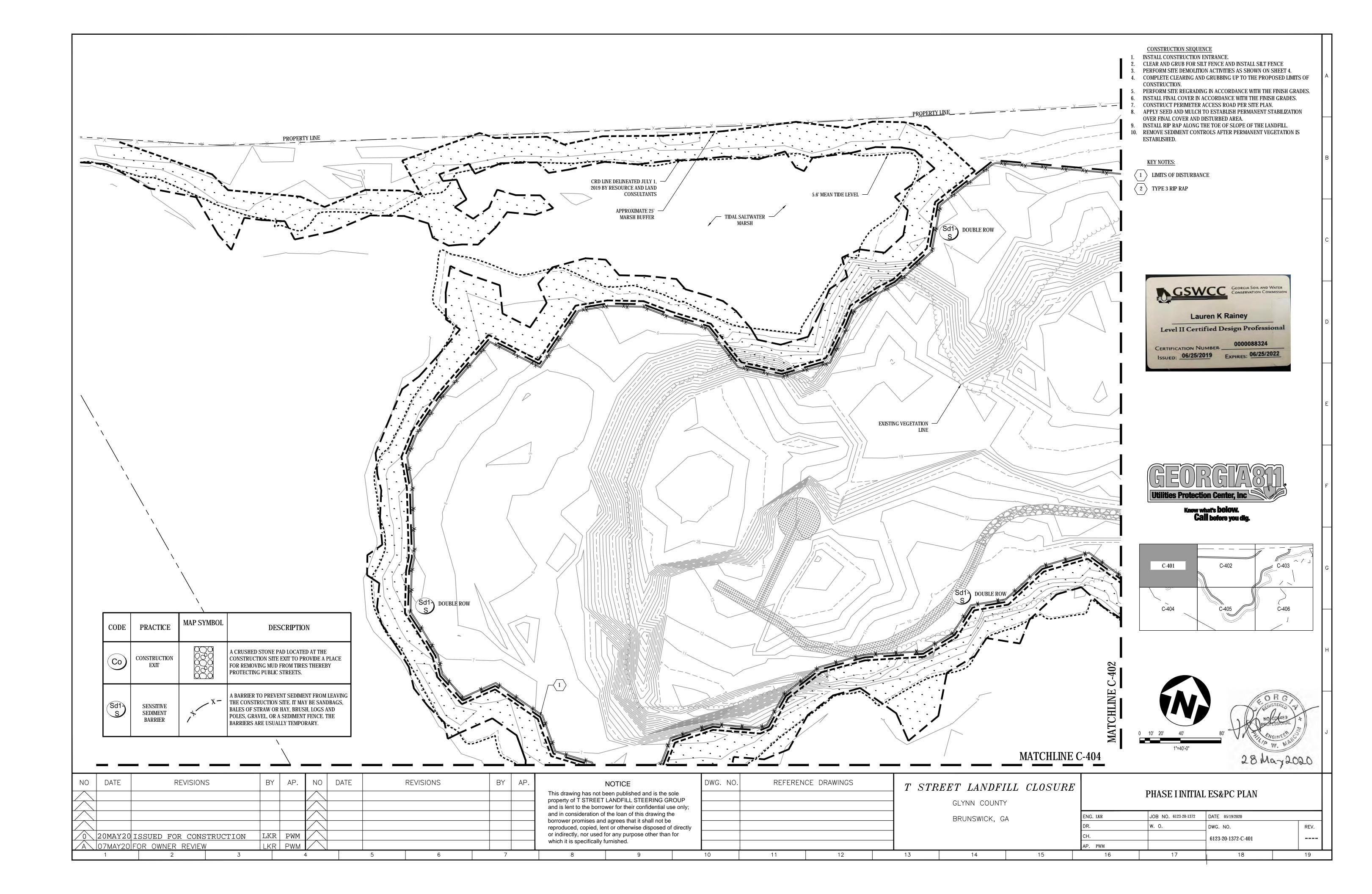


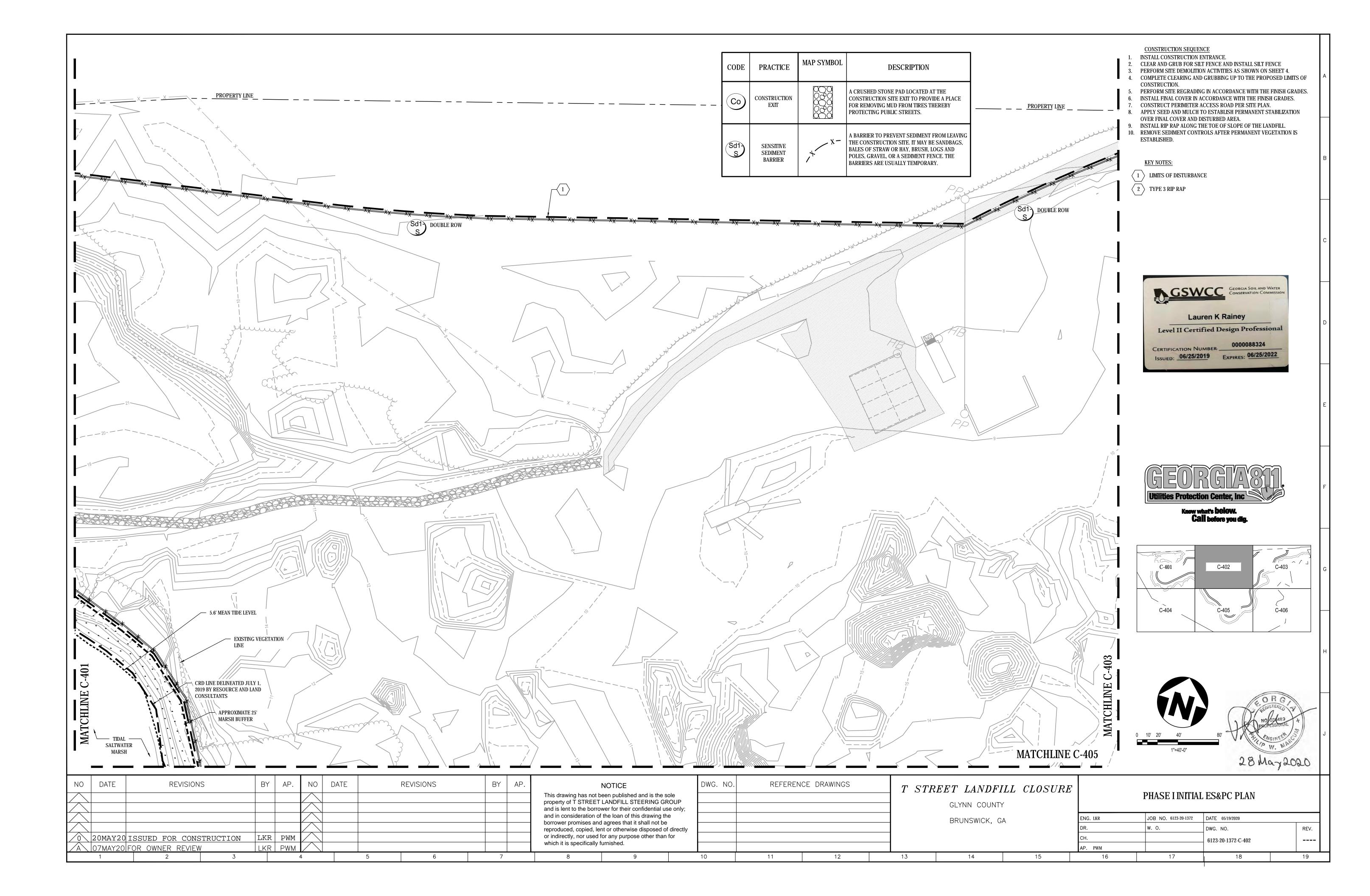
C-401 PHASE I C-407 PHASE II C-413 PHASE III	C-402 PHASE I C-408 PHASE II C-414 PHASE III	C-403 PHASE I C-409 PHASE II
C-404 PHASE I	C-405 PHASE I	C-406 PHASE I
C-410 PHASE II	C-411 PHASE II	C-412 PHASE II
C-416 PHASE III	C-417 PHASE III	C-418 PHASE III

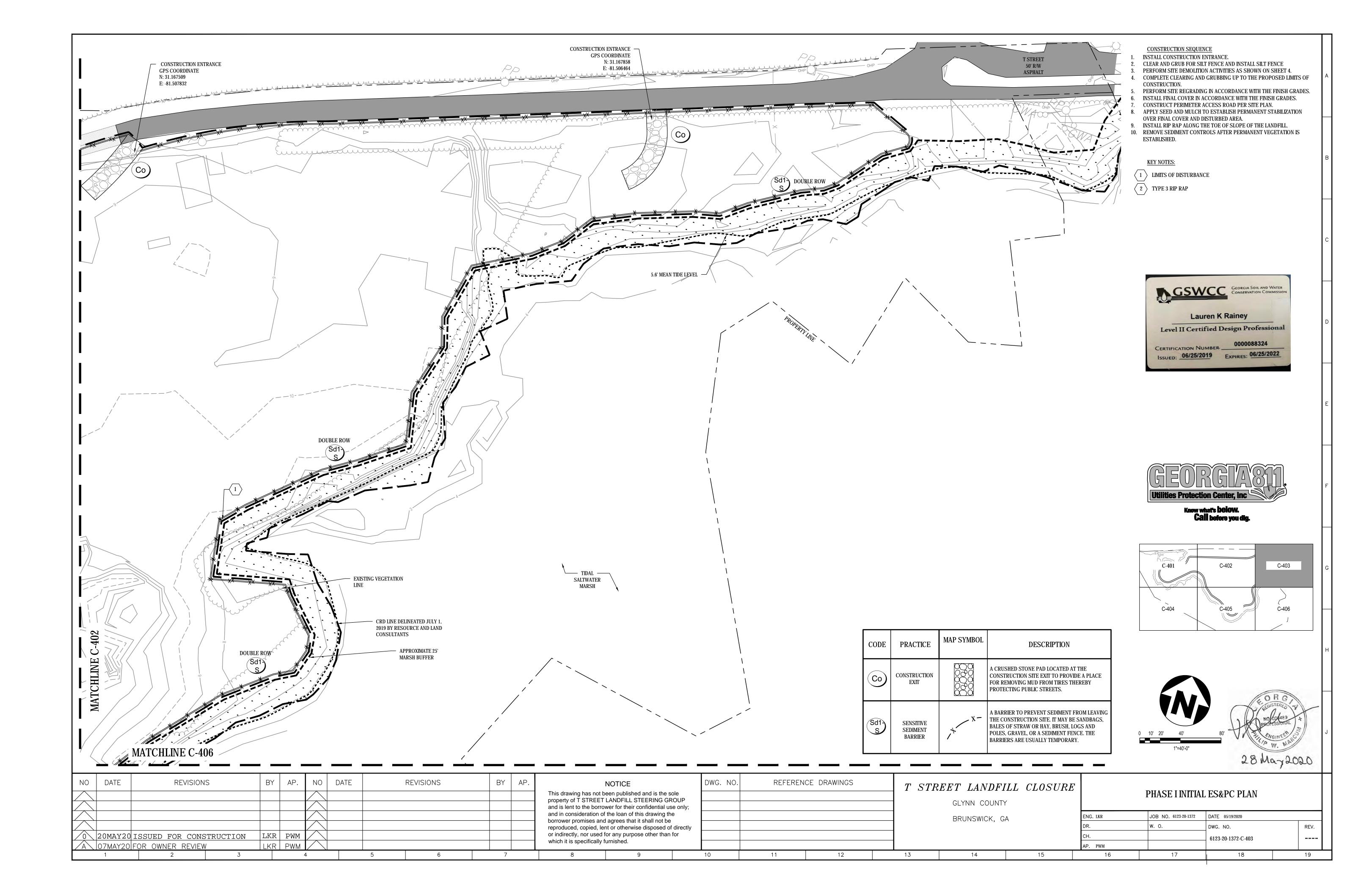


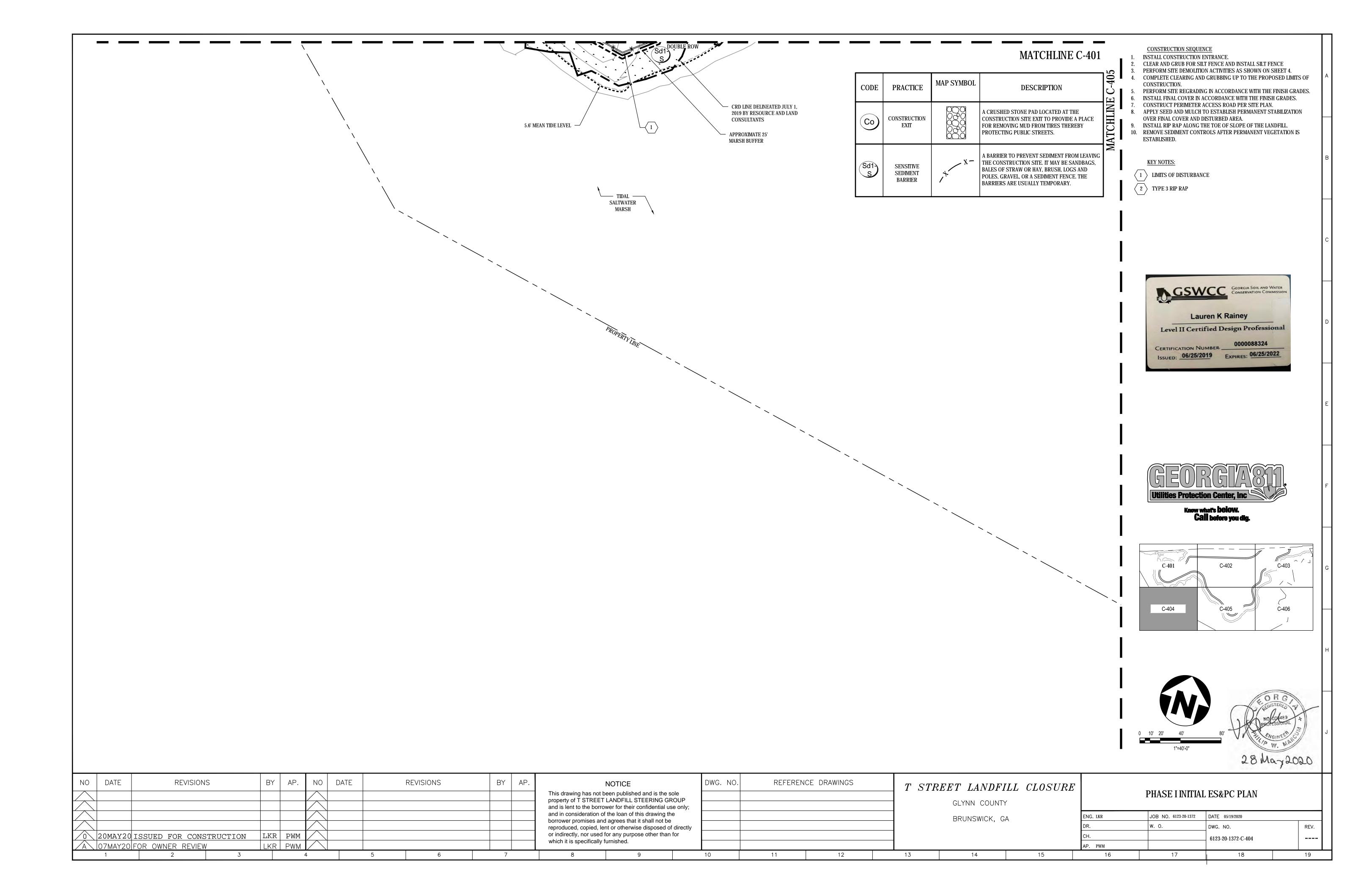


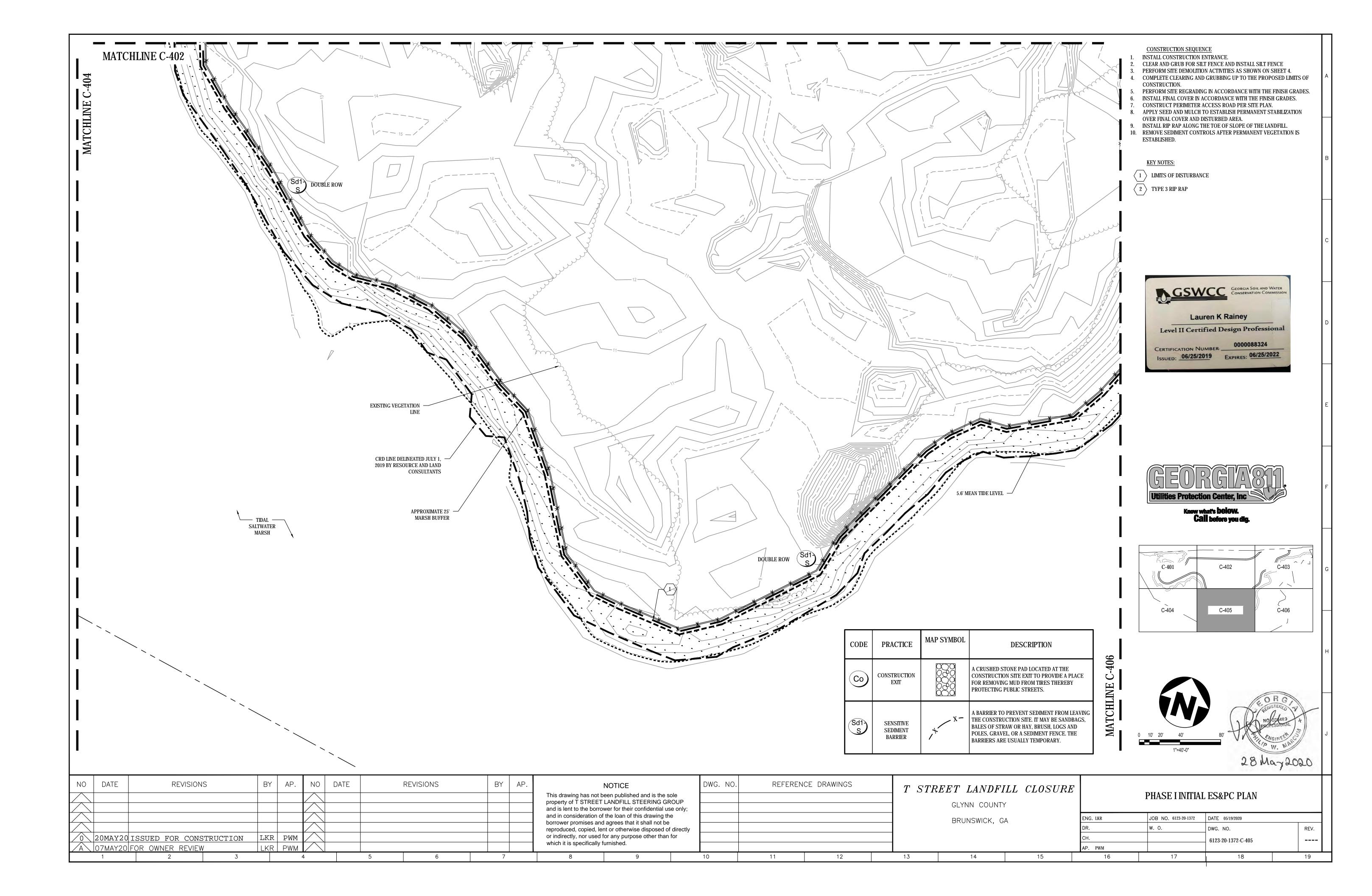
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				and in consideration of the loan of this drawing the			BRUNSWICK, GA	ENG. LKR	JOB NO. 6123-20-1372	DATE 05/19/2020			
				borrower promises and agrees that it shall not be reproduced, copied, lent or otherwise disposed of directly				DR.	W. O.	DWG. NO.	REV.		
0 20MAY20 ISSUED FOR CONSTRUCTION LKR PWM				or indirectly, nor used for any purpose other than for				CH.		6123-20-1372-C-400			
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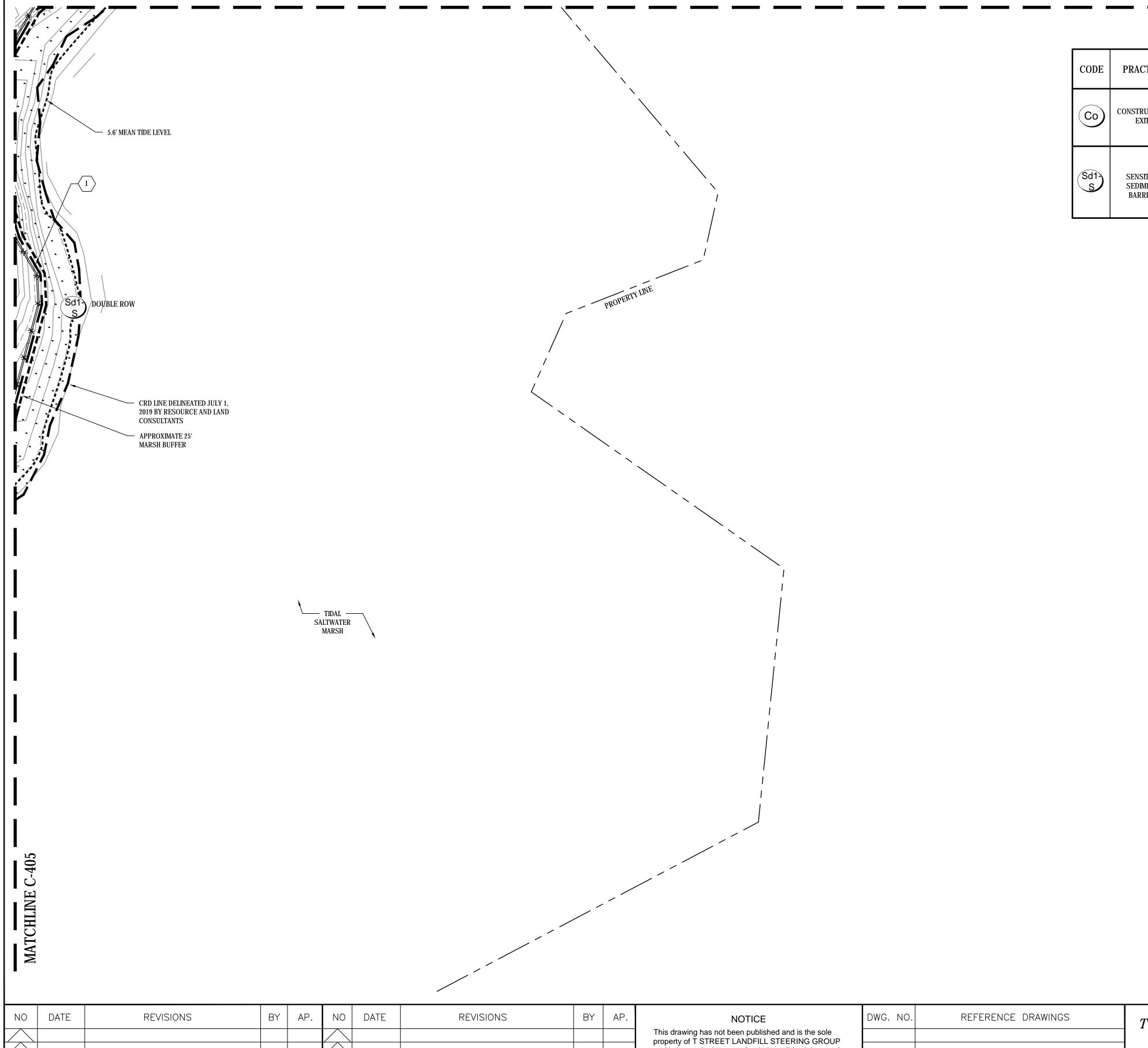












# MATCHLINE C-403

CODE	PRACTICE	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT	000 000 000 000	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Sd1 S	SENSITIVE SEDIMENT BARRIER	X-	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.

CONSTRUCTION SEQUENCE

- . INSTALL CONSTRUCTION ENTRANCE.
- CLEAR AND GRUB FOR SILT FENCE AND INSTALL SILT FENCE
   PERFORM SITE DEMOLITION ACTIVITIES AS SHOWN ON SHEET 4.
- 4. COMPLETE CLEARING AND GRUBBING UP TO THE PROPOSED LIMITS OF CONSTRUCTION.
- 5. PERFORM SITE REGRADING IN ACCORDANCE WITH THE FINISH GRADES.
- 6. INSTALL FINAL COVER IN ACCORDANCE WITH THE FINISH GRADES.
- CONSTRUCT PERIMETER ACCESS ROAD PER SITE PLAN.
- 8. APPLY SEED AND MULCH TO ESTABLISH PERMANENT STABILIZATION

OVER FINAL COVER AND DISTURBED AREA.

9. INSTALL RIP RAP ALONG THE TOE OF SLOPE OF THE LANDFILL.10. REMOVE SEDIMENT CONTROLS AFTER PERMANENT VEGETATION IS

# KEY NOTES:

ESTABLISHED.

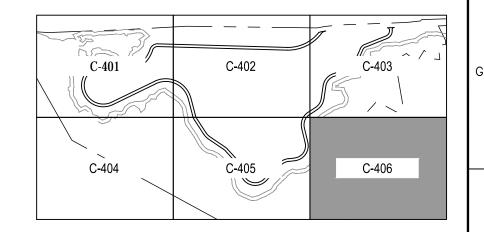
1 LIMITS OF DISTURBANCE

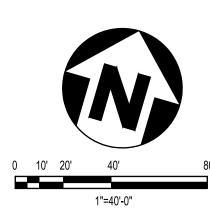
TYPE 3 RIP RAP





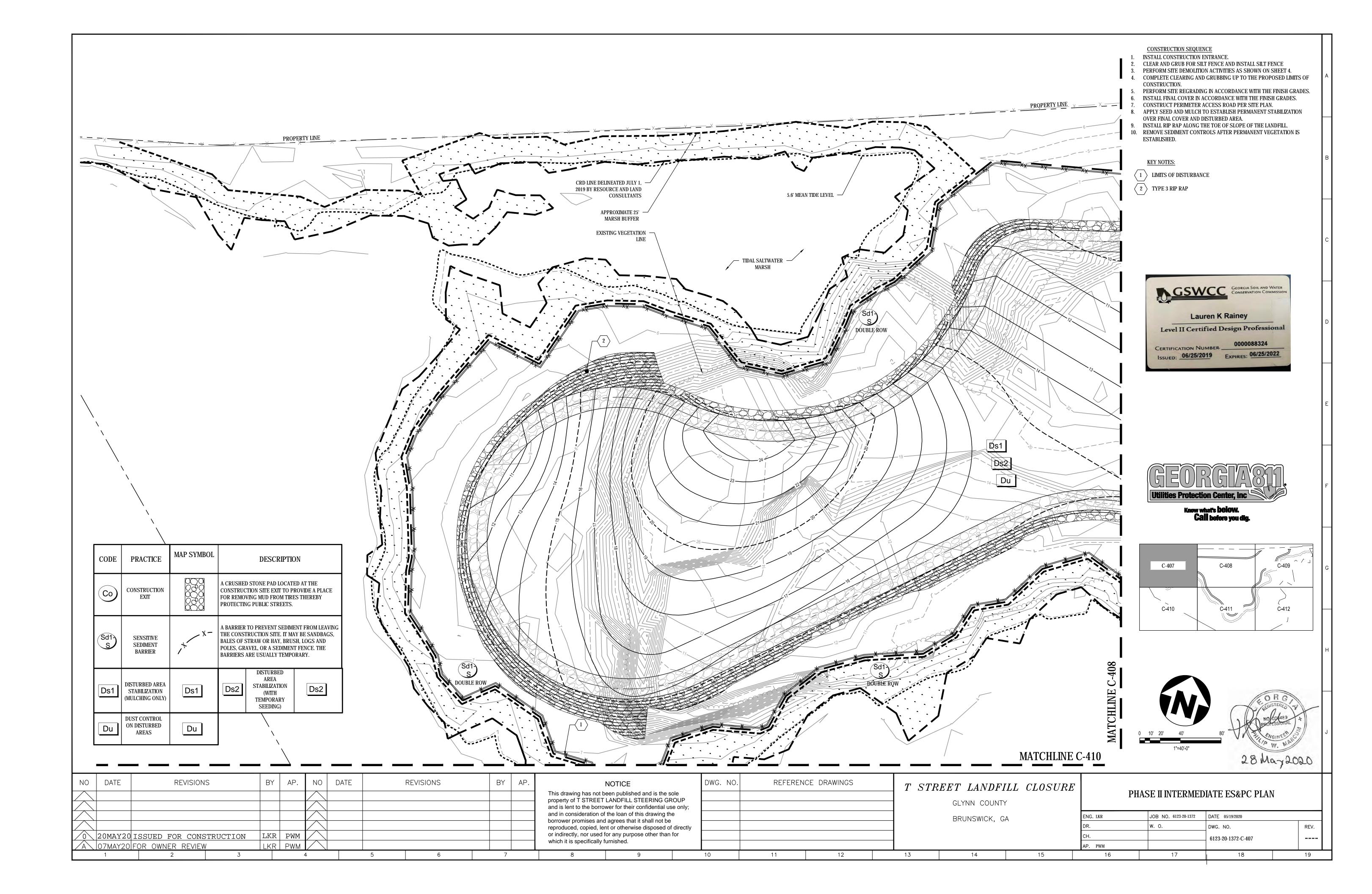
#### now what's below. Call before you dig.

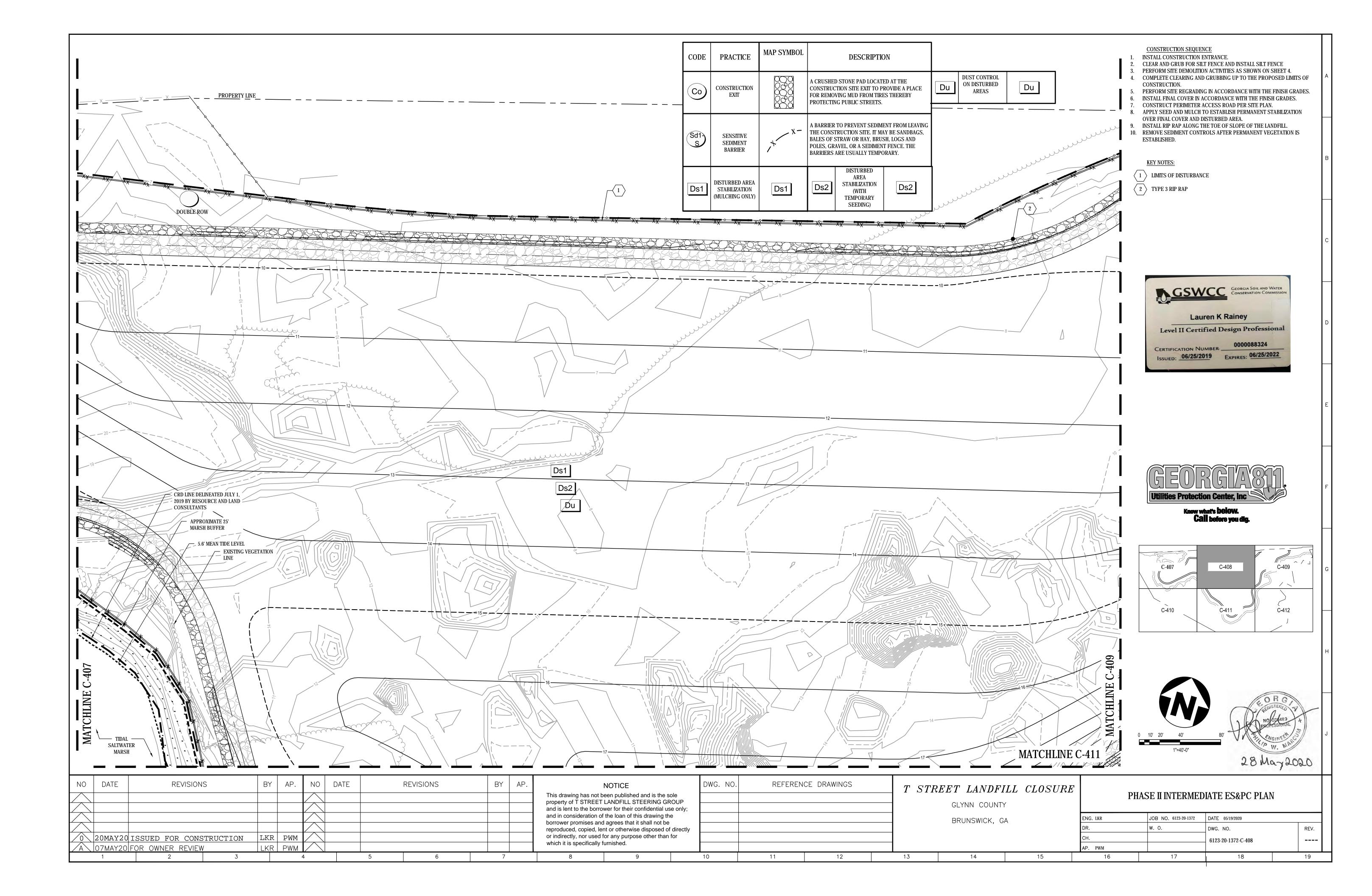


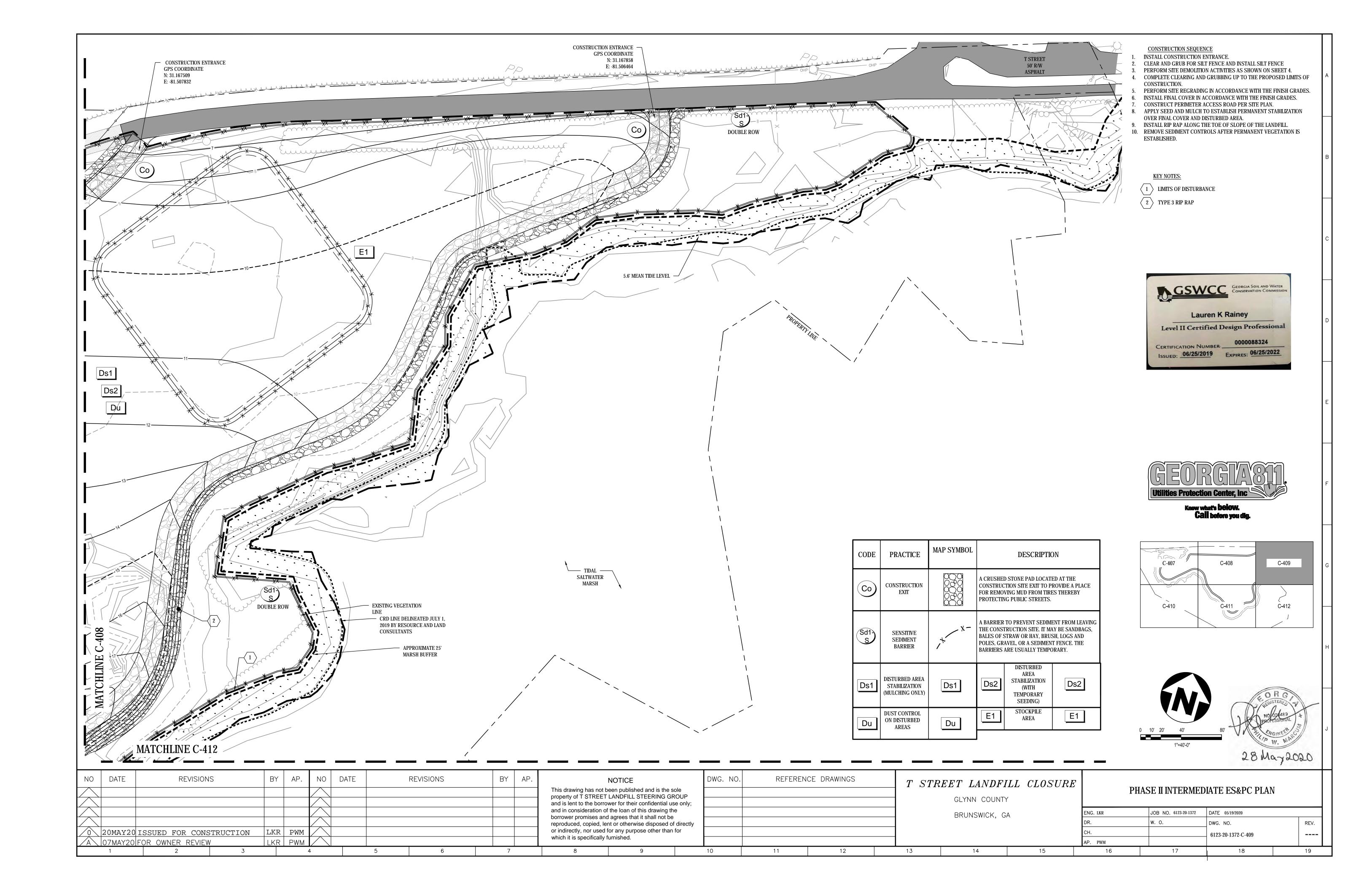


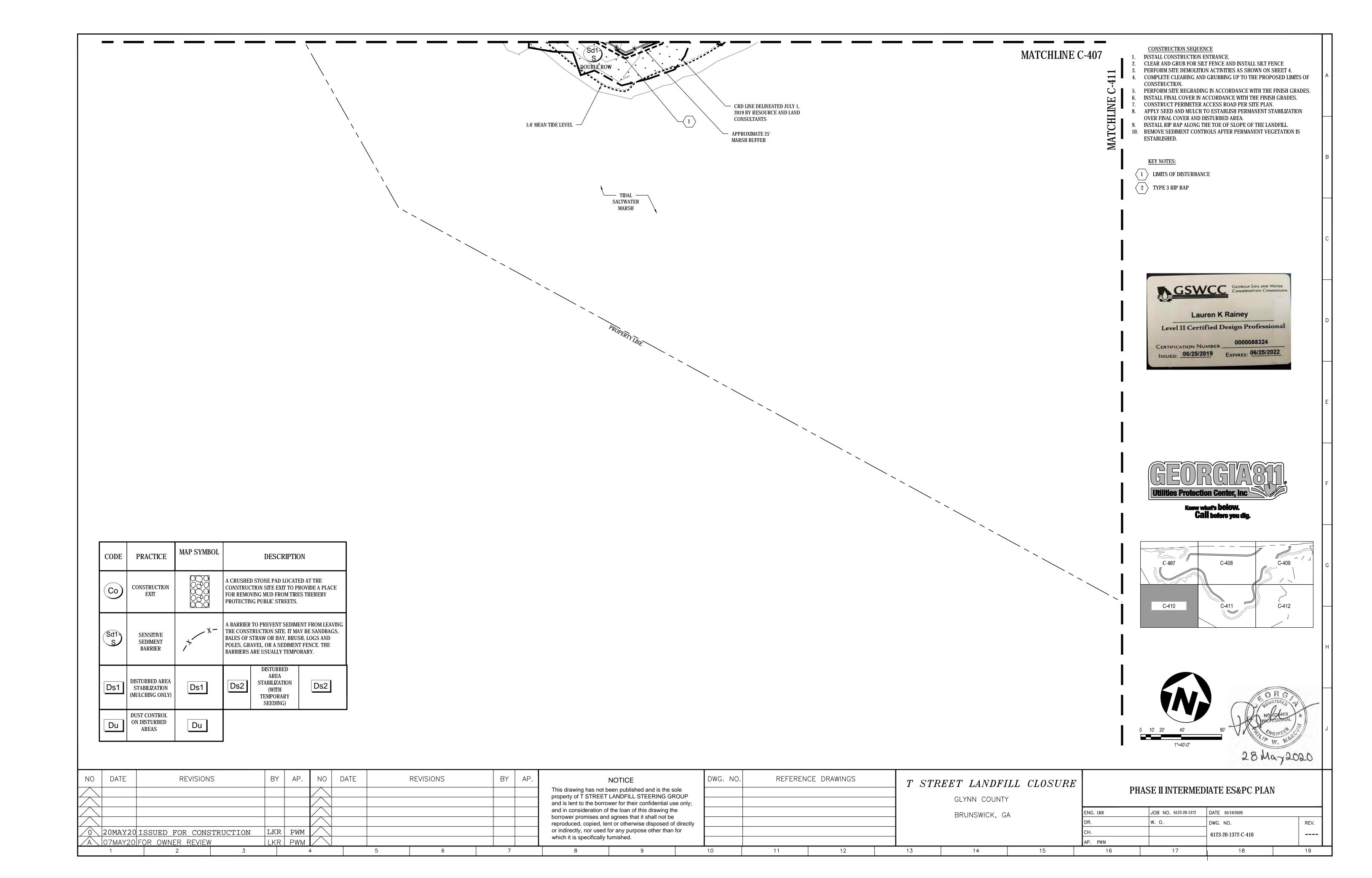
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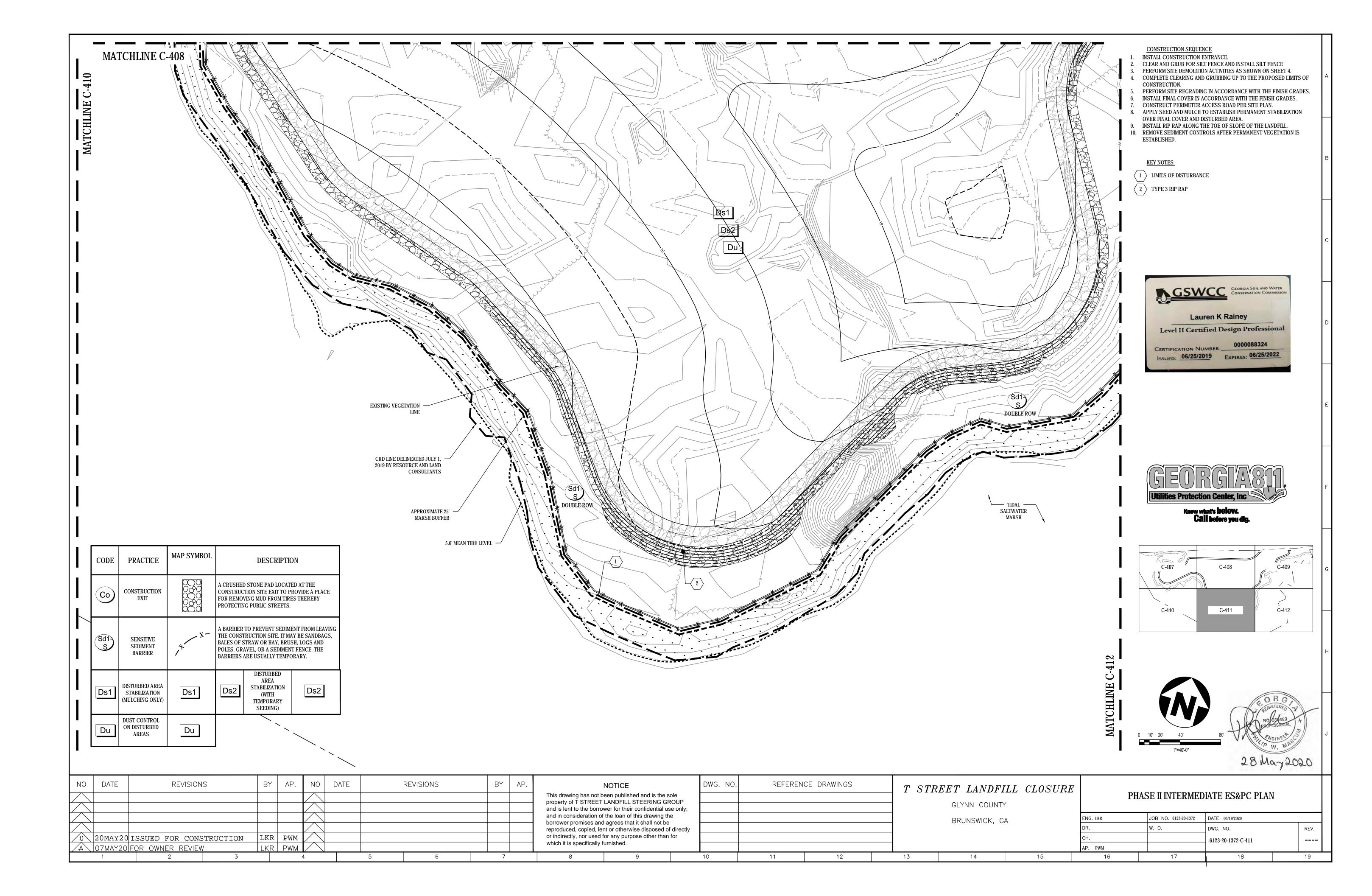
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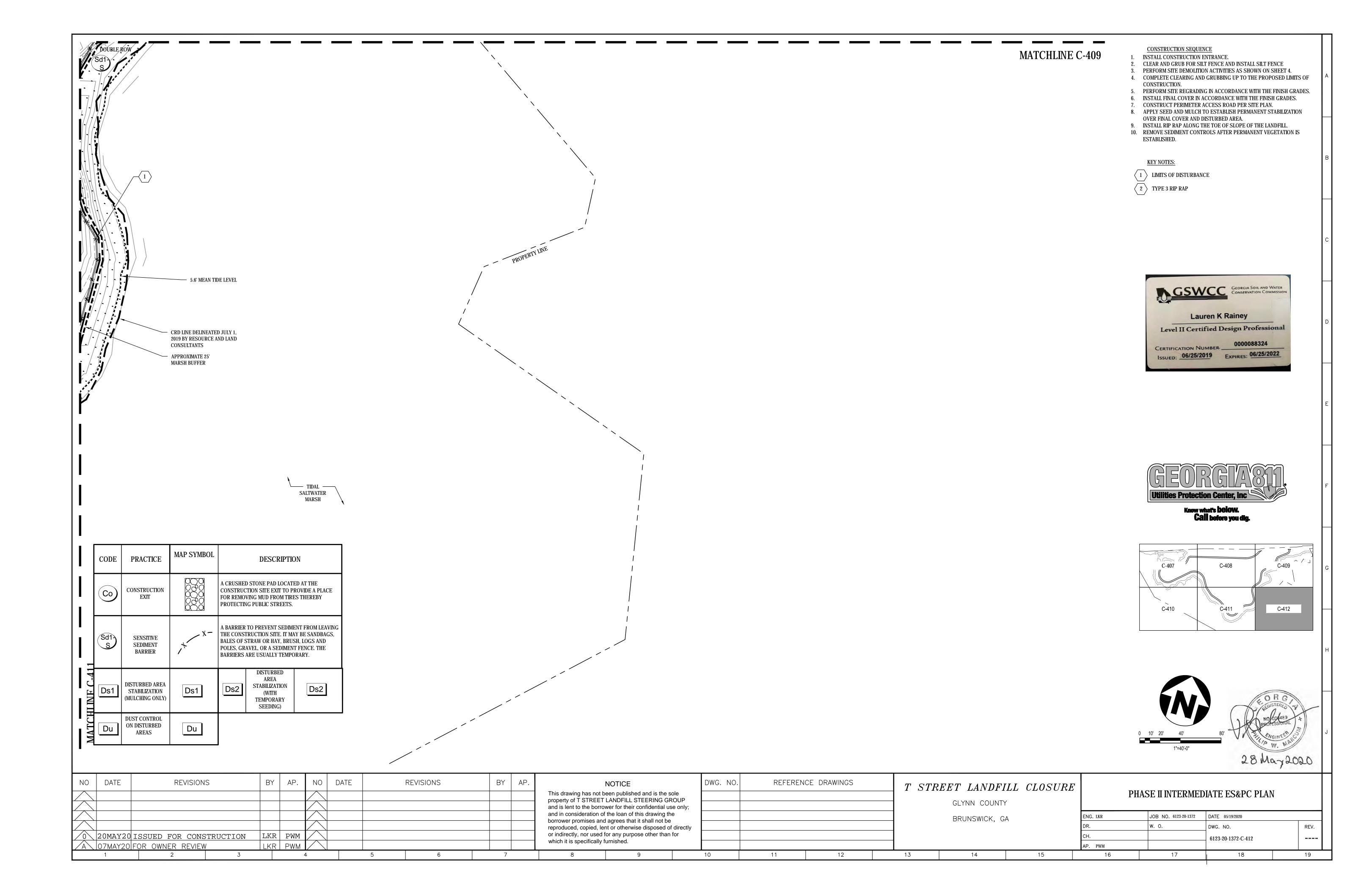


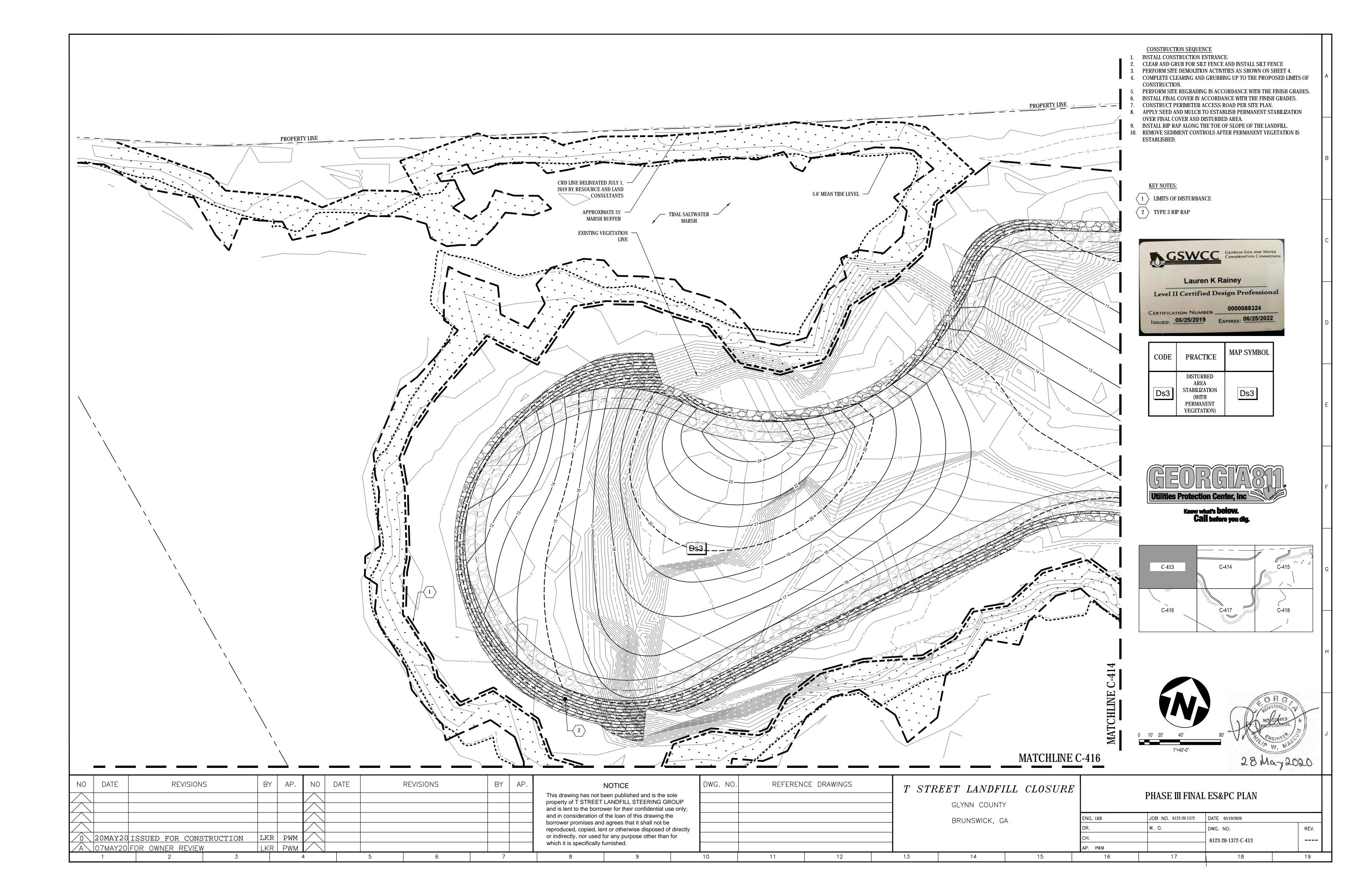


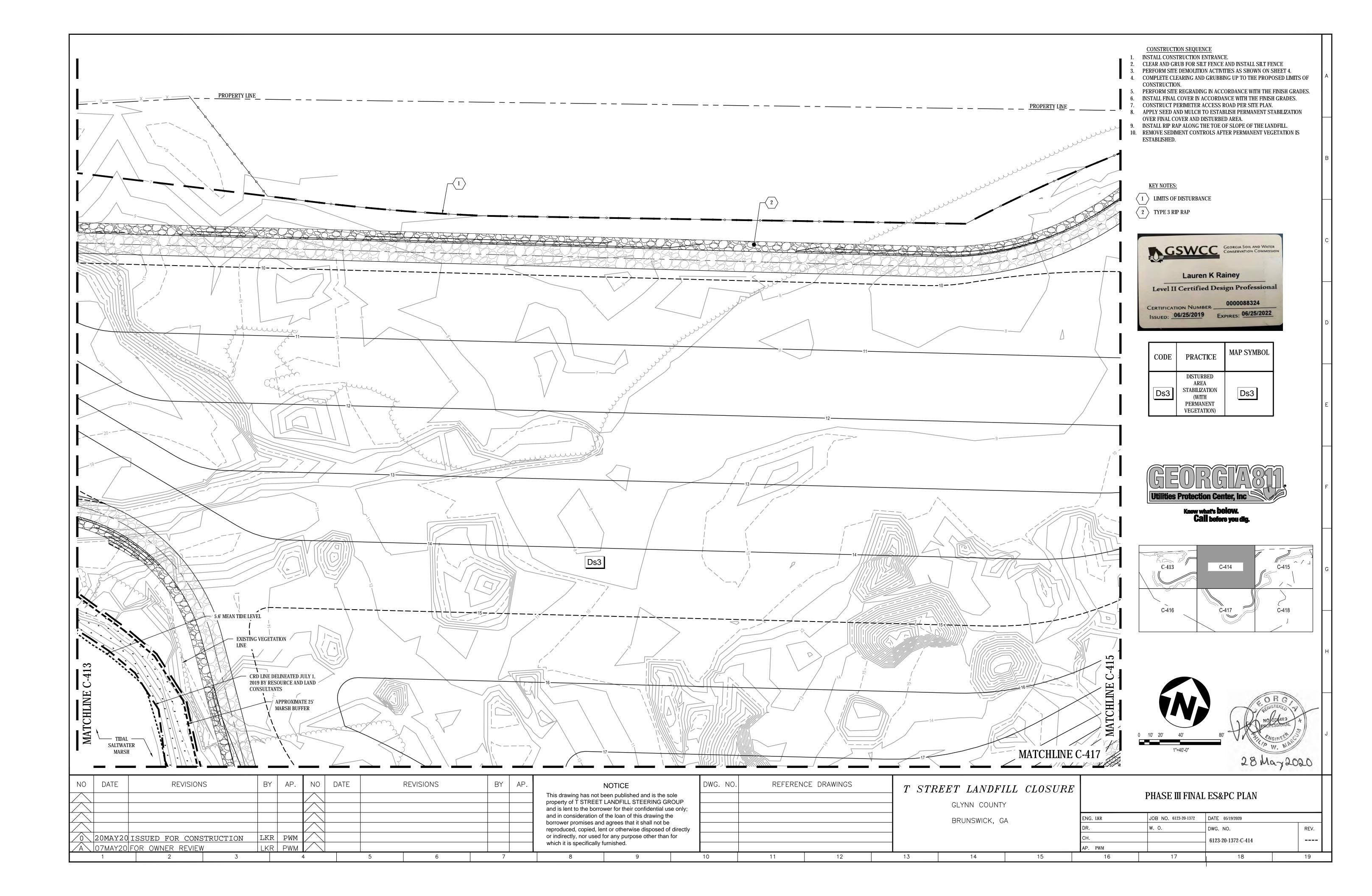


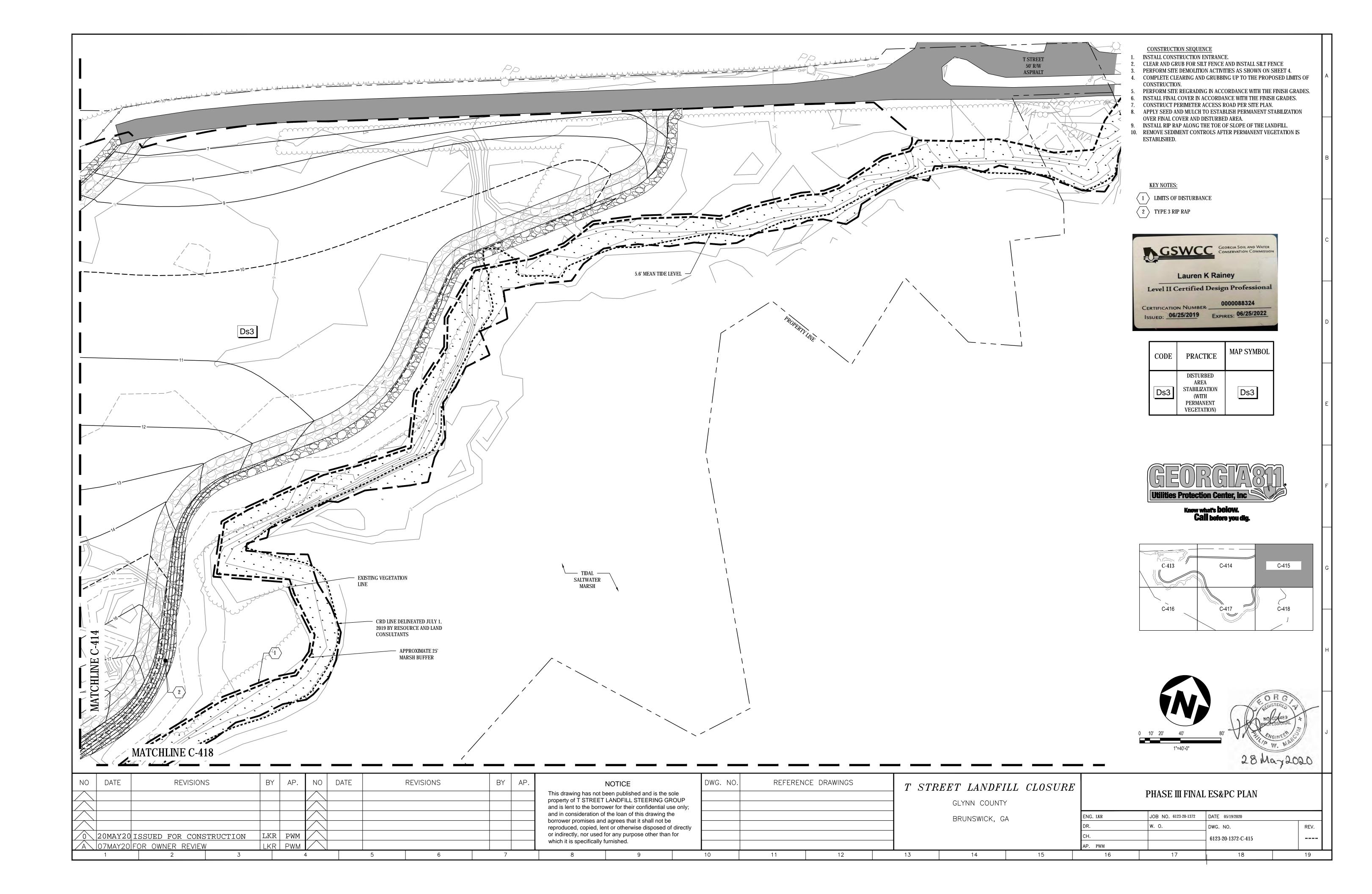


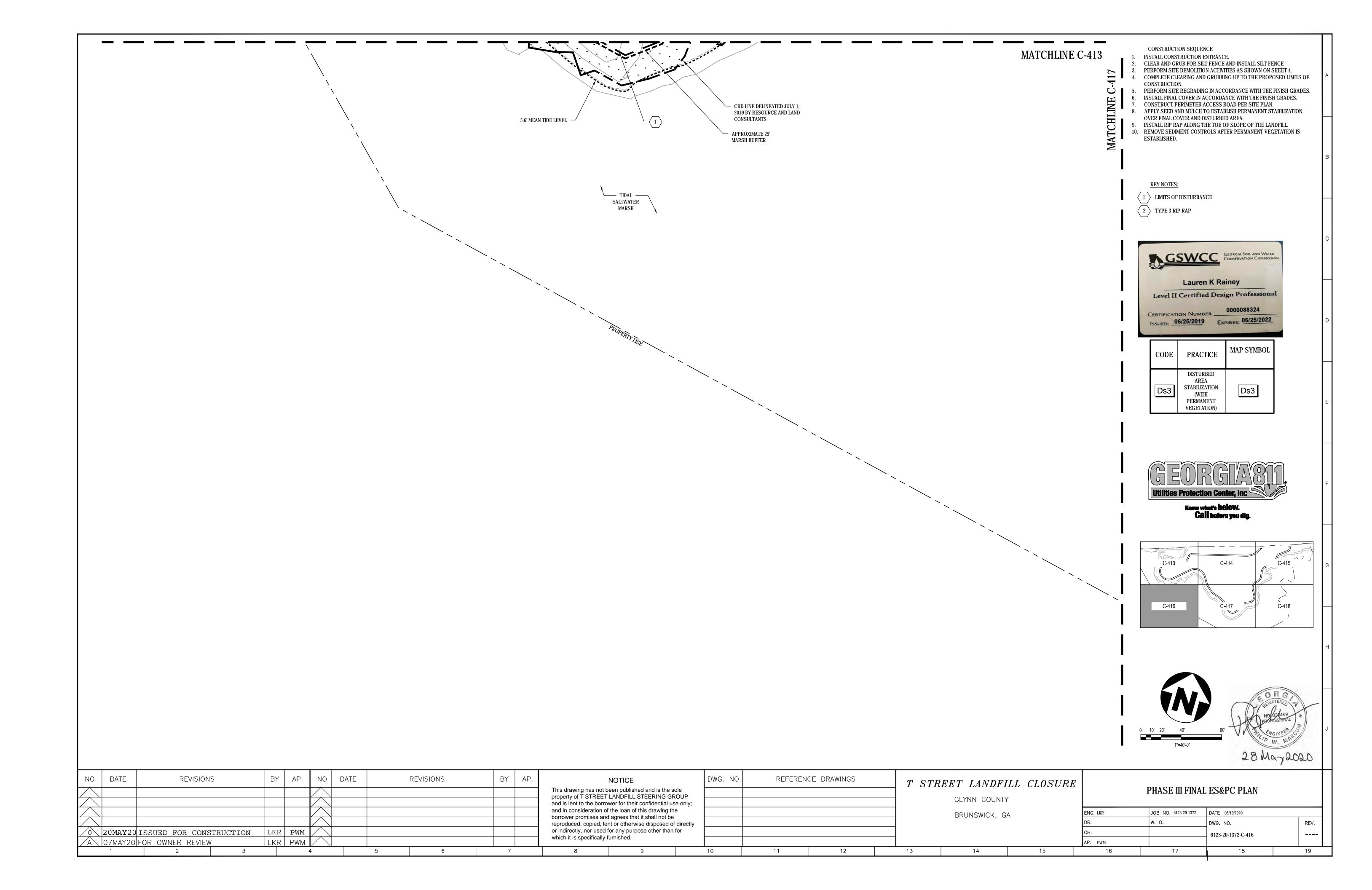


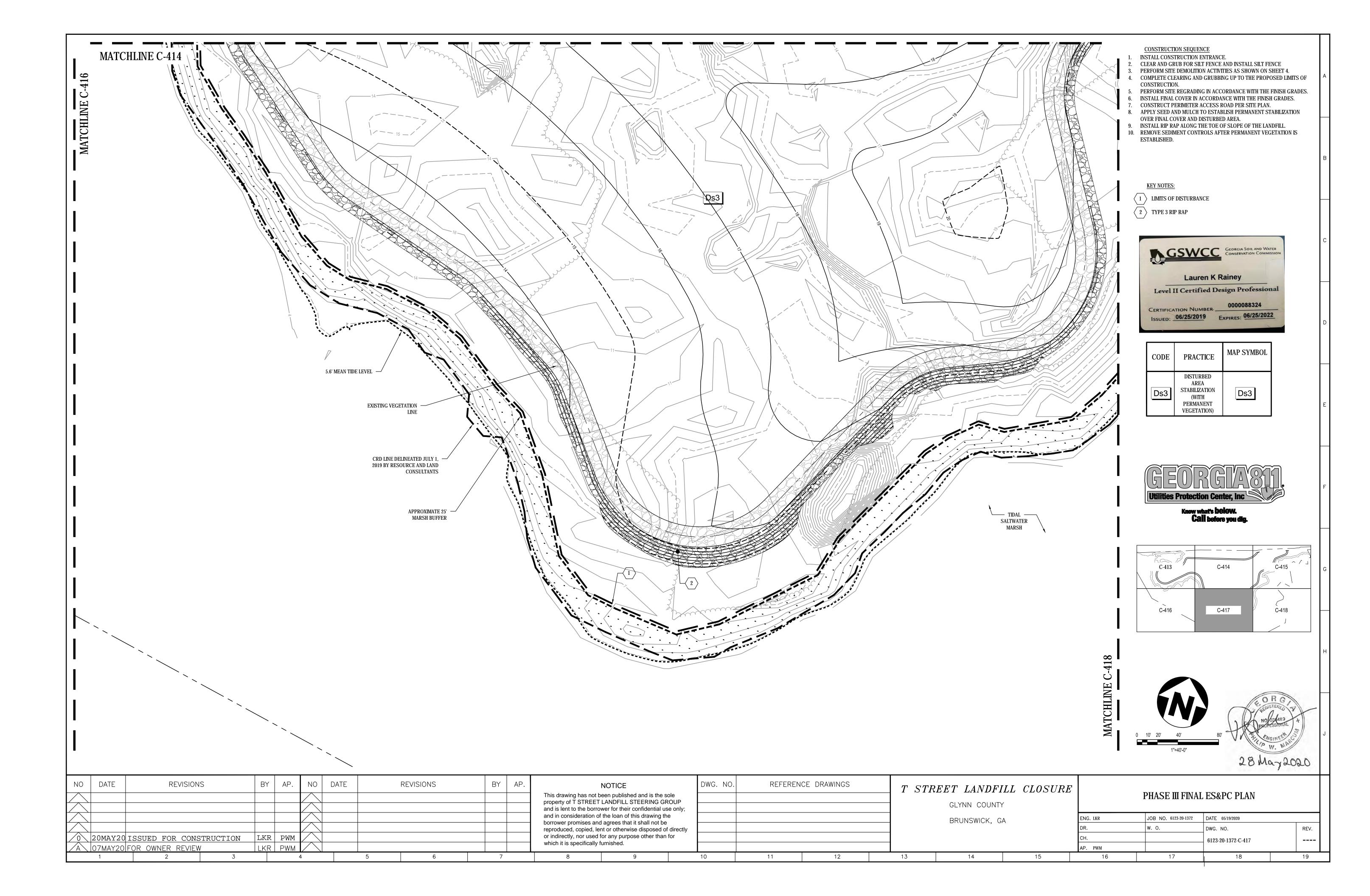


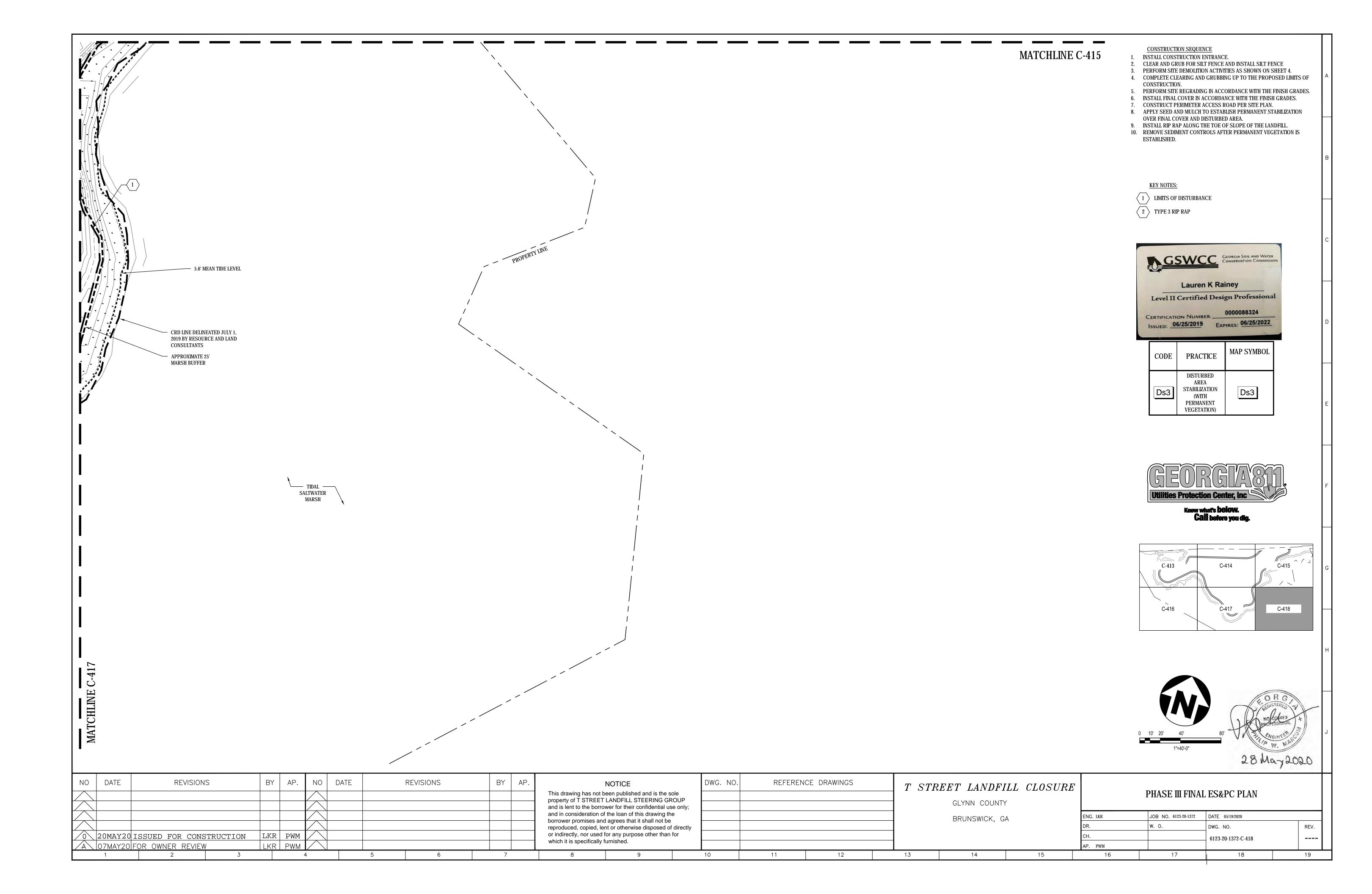


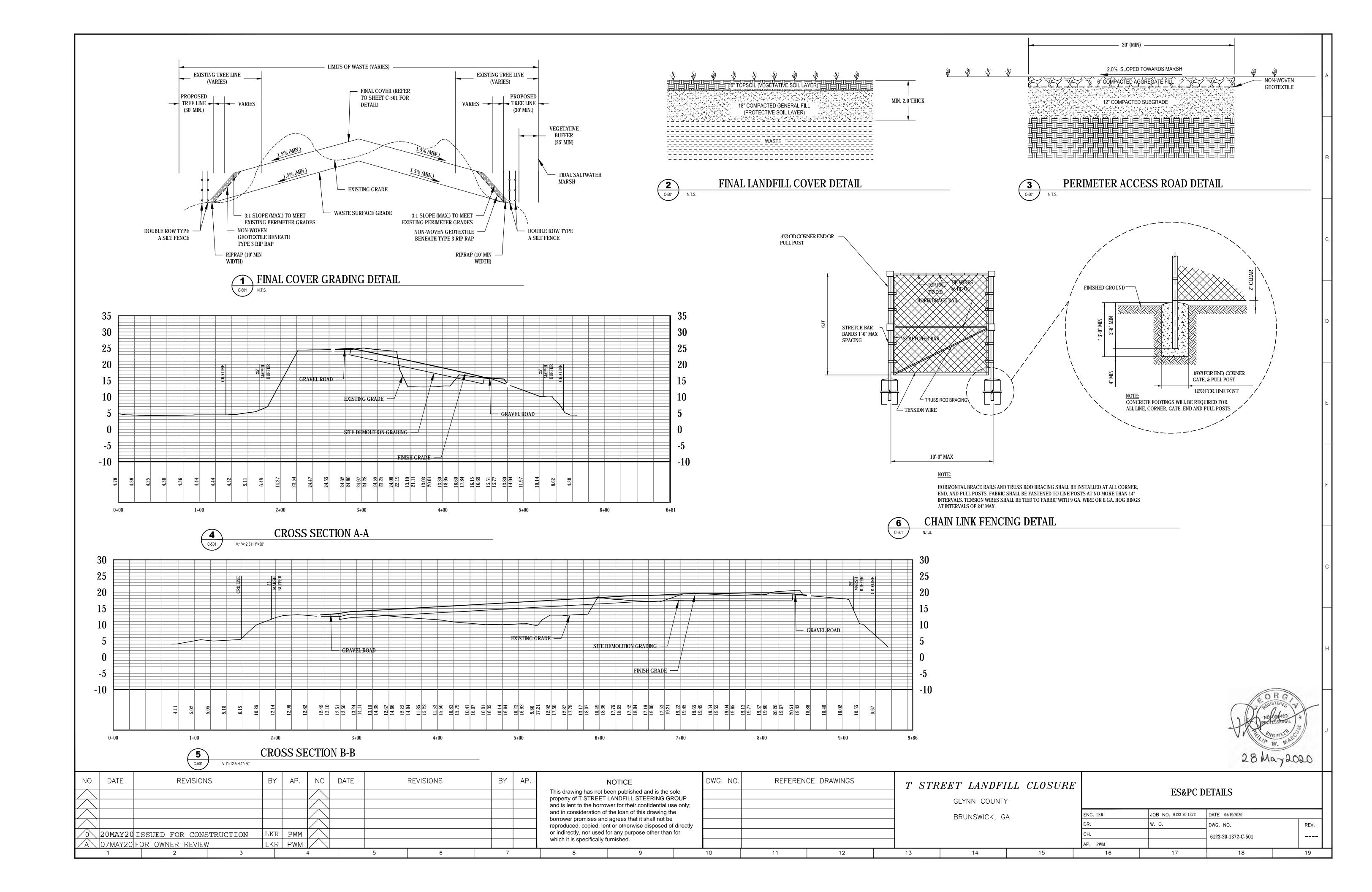


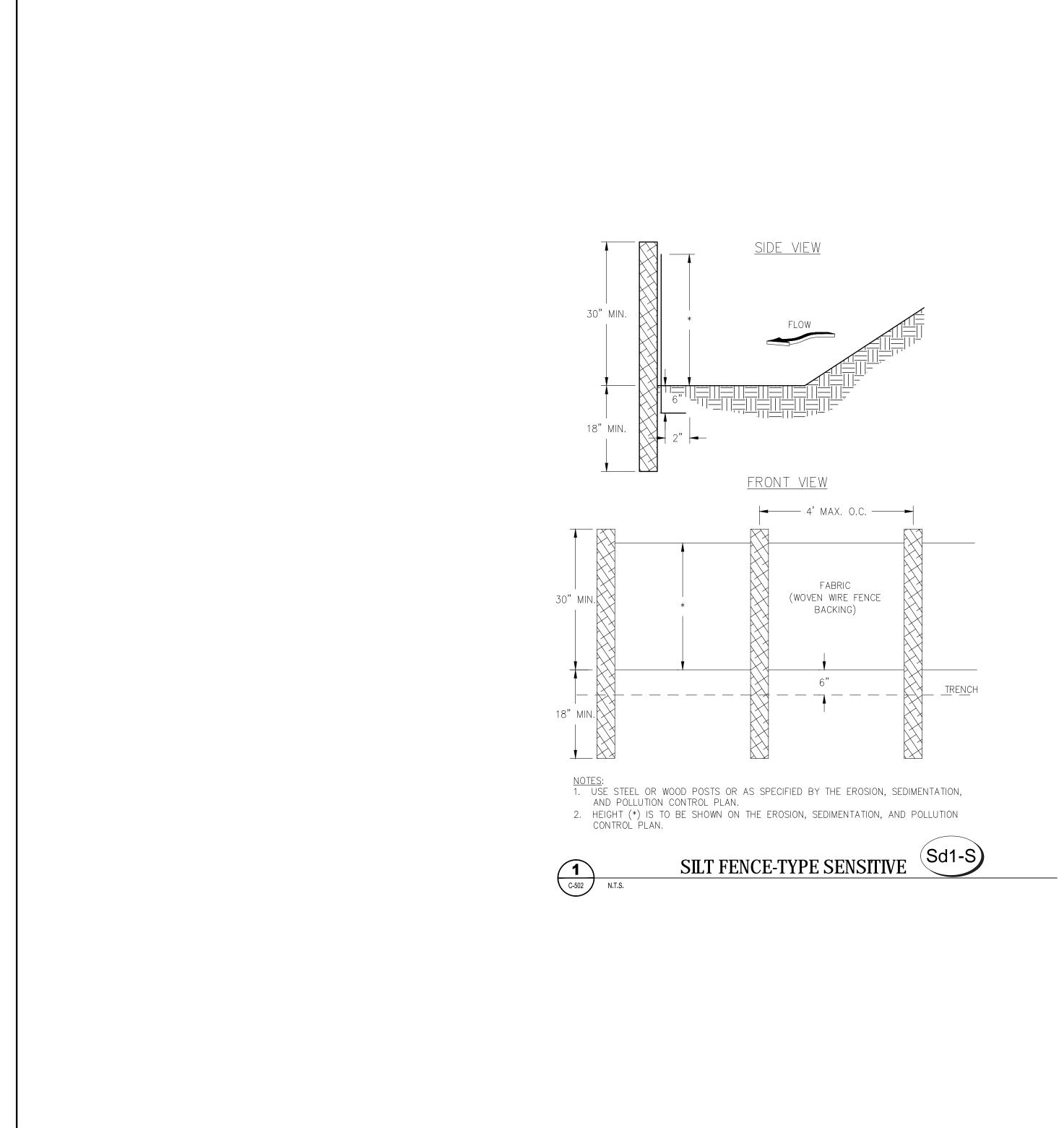


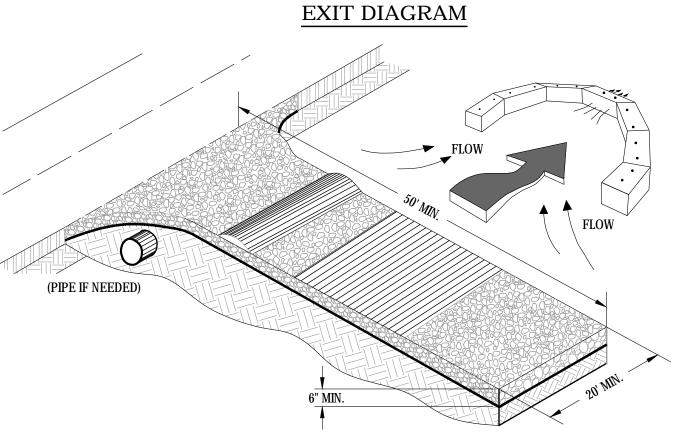


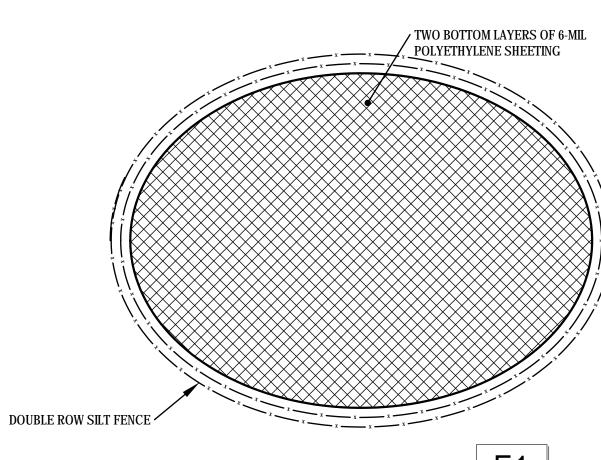






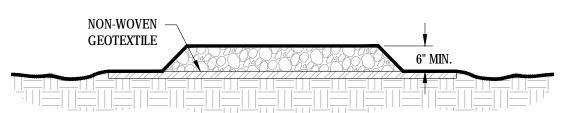






STOCKPILE AREA E1

## ENTRANCE ELEVATION



## CRUSHED STONE CONSTRUCTION EXIT 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 <u>SUITABLE</u> FOR TRUCK TRAFFIC THAT WILL 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.

CRUSHED STONE CONSTRUCTION EXIT

Co-502

N.T.S.



28 May 2020



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	DAMES DES	DAMES DED 4 000 00	DI A	MALING DYALEG DA DE	CION	
SPECIES	RATES PER ACRE	RATES PER 1,000 SQ. FT.	M-L	NTING DATES BY RE	C	REMARKS
BAHIA, PENSACOLA ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	-	4/1-5/31	3/1-5/31	LOW GROWING SOD PRODUCING; WILL SPREAD INTO BERMUDA LAWNS.
BAHIA, WILMINGTON ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LB.	3/15-5/31	3/1-5/31	-	SAME AS ABOVE.
BERMUDA, COMMON (HULLED SEED) ALONE WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LB. 0.1 LB.	-	4/1-5/31	3/15-5/31	QUICK COVER; LOW GROWING; SOD FORMING; NEEDS FULL SUN.
BERMUDA, COMMON (UNHULLED SEED) WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LB. 0.1 LB.	-	10/15-2/28	11/1-1/31	PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA, SPRIGS COMMON LAWN AND FORAGE HYBRIDS	40 CU. FT. SOD PLUGS 3'x3'	0.9 CU. FT.	4/15-6/15	4/1-6/15	4/1-5/31	1 CU. FT. = 650 SPRIGS; 1 BU. = 1.25 CU. FT. OR 800 SPRIGS
CROWN VETCH WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS.	0.3 LB.	9/1-10/15	9/1-10/15	-	MIX WITH 30 LBS. TALL FESCUE OR 15 LBS. RYE; INOCULATE SEED; PLANT ONLY NORTH OF ATLANTA.
FESCUE, TALL ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LB.	3/1-4/1 OR 8/15-9/30	8/15-10/15 OR 2/15-4/15	-	MIX WITH PERENNIAL LESPEDEZAS OR CROWN VETCH; NOT FOR DROUGHTY SOILS OR HEAVY USE AREAS.
LESPEDEZA, SERICEA SCARIFIED	60 LBS.	1.4 LBS.	4/1-5/31	3/15-5/31	3/1-5/15	WIDELY ADAPTED AND LOW MAINTENANCE; TAKES 2-3 YEARS TO ESTABLISH; SEED WITH EL INOCULANT; MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA OR TALL FESCUE.
UNSCARIFIED SEED-BEARING HAY	75 LBS. 3 TONS.	1.7 LBS. 138 LBS.	9/1-2/28 10/1-2/1	9/1-2/28 10/1-2/28	9/1-2/28 9/15-1/15	MIX WITH TALL FESCUE OR WINTER ANNUALS. CUT WHEN SEED IS MATURE BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
LESPEDEZA, AMBRO VIRGATA OR APPALOW SCARIFIED UNSCARIFIED	60 LBS. 75 LBS.	1.4 LBS. 1.7 LBS.	4/1-5/31 9/1-2/28	3/15-5/31 9/1-2/28	3/1-5/15 9/1-2/28	SPREADING GROWTH WITH HEIGHT OF 18"-24"; GOOD IN URBAN AREA; SLOW TO DEVELOP GOOD STANDS; MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA TALL FESCUE OR WINTER ANNUALS; DO NOT MIX WITH SERICEA LESPEDEZA; INOCULATE SEED WITH EL INOCULANT.
LESPEDEZA, SHRUB LESPEDEZA BICOLOR OR LESPEDEZA THUMBERGII) PLANTS	3'x3' SPACING		11/1-3/31	11/1-3/15	11/15-2/28	PLANT IN SMALL CLUMPS FOR WILDLIFE FOOD AND COVER.
LOVEGRASS, WEEPING ALONE WITH OTHER PERENNIALS	4 LBS. 2 LBS.	0.1 LB. 0.05 LB.	4/1-5/31	3/15-5/31	3/1-5/31	QUICK COVER; DROUGHT TOLERANT; GROWS WELL WITH SERICEA LESPEDEZA ON ROAD-BANKS AND OTHER STEEP SLOPES; SHORT LIVED.
MAIDENCANE SPRIGS	2'x3' SPACING		2/1-3/31	2/1-3/31	2/1-3/31	FOR VERY WET SITES SUCH AS RIVERBANKS AND SHORELINES. DIG SPRIGS LOCALLY.
PANICGRASS, ATLANTIC COASTAL	20 LBS.	0.5 LB.	-	3/1-4/30	3/1-4/30	GROWS WELL ON COASTAL SAND DUNES; MIX WITH SERICEA LESPEDEZA BUT NOT ON SAND DUNES.
REED CANARY GRASS ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LB.	8/15-10/15	9/1-10/15	-	GROW SIMILAR TO TALL FESCUE; FOR WET SITES.
SUNFLOWER, AZTEC MAXIMILLIAN	10 LBS.	0.2 LB.	4/15-5/31	4/15-5/31	4/1-5/31	MIX WITH WEEPING LOVE-GRASS OR OTHER LOW GROWING GRASSES OR LEGUMES.
SWITCHGRASS	20 LBS.	0.4 LB.	4/1-5/31	4/1-5/31	4/1-5/31 TABLE 3	FOR STREAMBANK PLANTINGS, DRAINAGE DITCHES, AND WET AREAS.

	TABLE 2
SUGG	ESTED SEEDBED DEPTHS
SLOPE	SEEDBED DEPTH
3:1 OR FLATTER	1" TO 4" DEPTH
2:1 TO 3:1	4" DEPTH
2:1 OR STEEPER	DEPRESSIONS EVERY 6" TO 8" HAND-DUG, IF NECESSARY

AGRICULTURAL LIME IS REQUIRED AT THE RATE OF 2 TONS PER ACRE.

THAN 25% WILL PASS THROUGH A 100-MESH SIEVE.

NO

DATE

- AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF
- LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE "GROUND LIMESTONE". GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90% OF THE MATERIAL WILL PASS
- AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT SHALL BE "FINELY GROUND LIMESTONE". FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 98% OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70% WILL PASS THROUGH A 100-MESH SIEVE.

0\20MAY20|ISSUED FOR CONSTRUCTION

A 07MAY20 FOR OWNER REVIEW

REVISIONS

A 10-MESH SIEVE, NOT LESS THAN 50% WILL PASS THROUGH A 50-MESH SIEVE AND NOT LESS

FE	RTILIZER REQUIREM	ENTS FOR PERMA	ANENT VEGETATION	V
TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100  30
COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	0-50  
WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30
WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	50  

- RATES ARE FOR BROADCASTED SEED. IF A SEED DRILL IS USED, REDUCE THE RATES BY ONE-HALF.
- 2. PLS IS AN ABBREVIATION OF PURE LIVE SEED.

NO

AP.

likr I pwm

3. CONTRACTOR SHALL USE COASTAL REGION FOR DETERMINATION OF SEED TYPES AND PLANTING DATES.

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) C-503 N.T.S.

Ds3

BY AP. DATE REVISIONS

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Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

material. Refer to specification Tac - Tackifiers. Resins should be used according to manufacturer's recommendations.

Permanent Vegetation. See specification Ds3-Disturbed Area Stabilization (With Permanent Vegetation).

**2** DUST CONTROL ON DISTURBED AREAS

Vegetative Cover. See standard Ds2 - Disturbed Area Stabilization (With Temporary

Calcium Chlorite. Apply at rate that will keep surface moist. May need retreatment.

Topsoiling. This entails covering the surface with less erosive soil material. See

NATIVE PLANTS FOR COASTAL GEORGIA

SC Coastal Plain Upland Mix

Piedmont NC Ecotype)

'Suther'-Piedmont NC Ecotype)

Coastal Plain NC Ecotype)

Plain SC Ecotype)

Plain NC Ecotype)

SC Ecotype)

Total: 100%

RIPARIAN MIX IN LOW-LYING AREAS.

TREES (PREFERRED)

QUERCUS VIRGINIANA (LIVE

OAK, COASTAL LIVE OAK

ILEX OPACA (AMERICAN

JUNIPERUS VIRGINIANA

(EASTERN RED CEDAR)

MAGNOLIA GRANDIFLORA

(SOUTHERN MAGNOLIA)

HOLLY)

BOTANICAL NAME

ERNMX # ERNMX-400

Cost Per

Seeding

\$57.67

20 lb per acre

Mix Type Southeastern U.S. Sites

Ecotype)

Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulch Only). Synthetic resins may be used instead of asphalt to bind mulch

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). keep traffic off these areas. Refer to specification Tac -

specification Tp-Topsoiling.

SIZE

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

COMMON NAME

36% Little Bluestern. Piedmont NC Ecotype (Schizachyrium scoparium

15% Indiangrass, 'Suther'-Piedmont NC Ecotype (Sorghastrum nutans, 'Suther'-Piedmont NC Ecotype) 10% <u>Virginia Wildrye</u>, 'Suther'-NC Ecotype (Elymus virginicus, 'Suther'-NC

5% Appalachian Beardtongue, SC Ecotype (Penstemon laevigatus, SC

5% Purpletop, Southeastern VA Ecotype (Tridens flavus, Southeastern VA

Wild Quinine, VA Ecotype (Parthenium integrifolium, VA Ecotype)
 Grassleaf Blazing Star, NC Ecotype (Liatris graminifolia (L. pilosa), NC

3% Switchgrass, 'Carthage', NC Ecotype (Panicum virgatum, 'Carthage', NC

3% Rattlesnakemaster, SC Ecotype (Eryngium yuccifolium, SC Ecotype)
3% Lanceleaf Coreopsis, Coastal Plain NC Ecotype (Coreopsis lanceolata,

3% Spotted Beebalm, Coastal Plain SC Ecotype (Monarda punctata, Coastal

3% Swamp (Narrowleaf) Sunflower, SC Ecotype (Helianthus angustifolius,

3% Blackeyed Susan, Coastal Plain NC Ecotype (Rudbeckia hirta, Coastal

TREES (SECONDARY)

QUERCUS GEMINATA

PERSEA BORBONIA (RED BAY) | SABAL PALMETTO (CABBAGE

PALM)

(SMALL-SAND LIVE OAK)

2% Purple Lovegrass, VA Ecotype (Eragrostis spectabilis, VA Ecotype)

BETWEEN ROAD AND 25-FOOT BUFFER, AND IN DISTURBED AREAS IN 25-FOOT BUFFER, USE

ERNMX-503 GA COASTAL PLAIN UPLAND MEADOW MIX OR ERNMX-504 GA COASTAL PLAIN

MAGNOLIA VIRGINIANA

(SWEETBAY SWAMPBAY)

PRUNUS CAROLINIANA

WITHIN THE 25-FOOT AREA, TREES THAT HAVE TO BE REMOVED WILL BE REPLANTED ON A

DWG. NO.

LIVE OAK)

REASONABLE SPACING PER SPECIFIC TREE DENSITY REQUIREMENTS.

(CAROLINA LAUREL CHERRY)

QUERCUS MINIMA (DWARF

TREES (SECONDARY)

3% Big Bluestem, 'Suther'-Piedmont NC Ecotype (Andropogon gerardii.

To prevent surface and air movement of dust from exposed soil surfaces.

METHODS AND MATERIALS A. Temporary Methods

Tackifiers.

B. Permanent Methods

GRASSES

REFERENCE DRAWINGS

# T STREET LANDFILL CLOSURE

GLYNN COUNTY BRUNSWICK, GA

MATERIAL	RATE	DEPTH
STRAW OR HAY	2-1/2 TON/ACRE	6" TO 10"
GEOTEXTILES, JUTE MATTING, NETTING, ETC.	SEE MANUFACTURER'S RECOMMENDATIONS	

MULCHING APPLICATION REQUIREMENTS

DISTURBED AREA STABILIZATION (WITH MULCH ONLY)

## TABLE 1

SUGGESTE	D SEEDBED DEPTHS						
SLOPE	SEEDBED DEPTH						
3:1 OR FLATTER	LESS THAN 4" DEPTH						
2:1 TO 3:1	1" TO 4" DEPTH						
2:1 OR STEEPER	DEPRESSIONS EVERY 6" TO 8" HAND-DUG, IF NECESSARY						

RE-SEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.

## TABLE 2

## SOME TEMPORARY PLANT SPECIES, SEEDING RATES AND PLANTING DATES

SPECIES	RATES PER 1,000	RATES PER	PLAN	TING DATES BY RE	GION
SPECIES	SQ. FT.	ACRE	M-L	P	С
RYE (GRAIN)	3.9 LBS.	3 BU	8/15-11/19	9/15-12/1 3/1-4/1	10/1-11/1
RYEGRASS	0.9 LB.	40 LBS.	8/15-11/15	9/1-12/15	9/15-1/1
RYE AND ANNUAL LESPEDEZA	0.6 LB. 0.6 LB.	0.5 BU 24 LBS	3/1-4/1	3/1-4/1	2/1-3/1
WEEPING LOVEGRASS	0.1 LB.	4 LBS.	4/1-6/1	4/1-6/1	3/1-6/1
SUDANGRASS	1.0 LB.	60 LBS.	5/1-8/1	5/1-8/1	4/1-8/1
BROWNTOP MILLET	1.1 LBS.	50 LBS.	4/15-6/15	4/15-7/1	4/15-7/1
WHEAT	4.1 LBS.	3 BU	9/15-12/1	10/1-12/15	10/15-1/1

- . UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
- 2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

## TABLE 3 FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

	<b>, </b>						
TYPE OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)			
COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100  30			
COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	0-50  			
TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500	30			
WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30			

## DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)



## ES&PC DETAILS

	ENG. LKR JOB NO. 6123-20-1372 DATE 05/19/2020  DR. W. O. DWG. NO.  CH. 6123-20-1372-C-503						
	ENG. LKR	JOB NO. 6123-20-1372	DATE 05/19/2020				
	DR.	W. O.	DWG. NO.	REV.			
	CH.		6123-20-1372-C-503				
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28 May 2020

#### **EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST** 31 Provide complete requirements of sampling frequency and reporting of sampling results. \* STAND ALONE CONSTRUCTION PROJECTS 32 Provide complete details for retention of records as per Part IV.F. of the permit. \* Address: T STREET LANDFILL, BRUNSWICK, GA Project Name: T STREET LANDFILL CLOSURE 33 Description of analytical methods to be used to collect and analyze the samples from each location. \* City/County: BRUNSWICK/GLYNN Date on Plans: MAY 07, 2020 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. \* Name & email of person filling out checklist: Lauren Rainey/lauren.rainey@woodplc.com 35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which TO BE SHOWN ON ES&PC PLAN storm water is discharged. \* C-504 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission C-400-418 Y 36 A description of appropriate controls and measures that will be implemented at the construction site including: as of January 1 of the year in which the land-disturbing activity was permitted. (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed) BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and, the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine C-400-418 Y 2 Level II certification number issued by the Commission, signature and seal of the certified design professional. all of the BMPs into a single phase. \* (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be C-400 Y 37 Graphic scale and North arrow. 3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from 3 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the Plan must Ground Slope Contour Intervals, ft. include at least 4 of the BMPs listed in Appendix 1 of this checklist \* 0.5 or 1 Flat 0 - 2% (A copy of the written approval by EPD must be attached to the plan for the Plan to be reviewed.) Rolling 2 - 8% 1 or 2 larger scale Steep 8% + 2,5 or 10 4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls. N/A 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to 5 Provide the name, address, **email address**, and phone number of primary permittee. conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil C-601 6 Note total and disturbed acreage of the project or phase under construction. and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at 7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees. 8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. N/A 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual 9 Description of the nature of construction activity. for Erosion & Sediment Control in Georgia 2016 Edition. \* 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact 1 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected. C-100 | Y | 42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site. C-603 Y 12 Design professional's certification statement and signature that the site was visited prior to development of the BY OTHERS | N/A | 43 Delineation and acreage of contributing drainage basins on the project site. ES&PC Plan as stated on Part IV page 19 of the permit BY OTHERS IIN/A 44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. \* C-603 Y 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit \* C-603 Y 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the IN/A 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without initial sediment storage requirements and perimeter control BMPs within 7 days after installation." erosion. Identify/Delineate all storm water discharge points. in accordance with Part IV.A.5 page 25 of the permit. \* |C-602 ||Y 47 Soil series for the project site and their delineation. C-601 Y 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot C-400-418 Y 48 The limits of disturbance for each phase of construction. undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal C-400 IN/A 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits." retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the N/A 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required. site has been achieved. A written justification explaining the decision to use equivalent controls when a Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on sediment basin is not attainable must be included in the Plan for each common drainage location in which a BMPs with a hydraulic component must be certified by the design professional." \* sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must C-601 Y 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the authorized by a Section 404 permit." \* storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water Y 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, erosion and sediment control measures and practices prior to land disturbing activities." a written justification explaining this decision must be included in the Plan. C-601 Y 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the C-400-418 Y 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for approved Plan does not provide for effective erosion control, additional erosion and sediment control measures Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with shall be implemented to control or treat the sediment source." 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be C-502-503 Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set stabilized with mulch or temporary seeding." forth in the Manual for Erosion and Sediment Control in Georgia. N/A 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile C-400-418 Y 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time with Part III. C. of the permit Include the completed Appendix 1 listing all the BMPs that will be used for those of the year that seeding will take place and for the appropriate geographic region of Georgia. areas of the site which discharge to the Impaired Stream Segment. \* \* If using this checklist for a project that is less than 1 acre and not part of a common development | N/A | 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in but within 200 ft of a perennial stream, the \* checklist items would be N/A. Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific Effective January 1, 2020 conditions or requirements included in the TMDL Implementation Plan. \* Y 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. \* 25 Provide BMPs for the remediation of all petroleum spills and leaks. 26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. \* N/A 27 Description of practices to provide cover for building materials and building products on site. \* 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. \* GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSIO 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization). Lauren K Rainey 30 Provide complete requirements of inspections and record keeping by the primary permittee. \* Level II Certified Design Professional CERTIFICATION NUMBER \_\_ ISSUED: 06/25/2019 EXPIRES: 06/25/2022

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## EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ES&PC Plan)

THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO. GAR 100001. THESE PLAN SHEETS AND ALL REQUIREMENTS OF THE GENERAL PERMIT AS WELL AS LOCAL, STATE, AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSION IN THIS PLAN.

OWNER/DEVELOPER:T STREET LANDFILL STEERING GROUP SHANNON BETTS (ON BEHALF OF T STREET LANDFILL STEERING GROUP) PHONE: (404) 652-3916

EMAIL: SHANNON.BETTS@GAPAC.COM

## SITE DESCRIPTION

THIS PROJECT INCLUDES CONSTRUCTION OF A LANDFILL CAP.

T STREET LANDFILL IS LOCATED BRUNSWICK, GEORGIA. THE EAST RIVER IS WEST OF THE FACILITY.

## TOTAL SITE AREA = 40± ACRES.

TOTAL DISTURBED AREA FOR LANDFILL CLOSURE = 33± ACRES

CONSTRUCTION WILL BEGIN WITH PLACEMENT OF PERIMETER SILT PROTECTION BARRIERS AND TWO CONSTRUCTION EXITS AS SHOWN ON THE ES&PC PLANS. AFTER THESE EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPS) HAVE BEEN INSTALLED, CLEARING AND GRUBBING OF VEGETATION WILL COMMENCE. THE SITE WILL THEN BE GRADED. ONCE BROUGHT TO WASTE SURFACE GRADE, THE LANDFILL CAP WILL BE CONSTRUCTED. ANY EXPOSED AREAS WILL BE STABILIZED WITH TEMPORARY AND PERMANENT VEGETATION OR A SIMILAR APPROVED BMP.

THERE ARE STATE WATERS (WETLANDS) WITHIN 200 FEET OF DISTURBED AREA. NO BUFFER VARIANCE IS REQUIRED SINCE LAND DISTURBING ACTIVITIES ARE LIMITED TO REMOVAL OF DEBRIS AND EFFECTED AREAS WILL BE REGRADED TO DRAIN AS NECESSARY.

ACCORDING TO THE GEORGIA 305(b)/303(d) LIST, THERE ARE NO BioF, BioM OR SEDIMENT IMPAIRED STREAM SEGMENTS WITHIN 1 MILE DOWNSTREAM OF AND IN THE SAME WATERSHED AS THE CONSTRUCTION STORM WATER DISCHARGE FROM THIS SITE. THERE ARE NO SEDIMENT TMDL IMPLEMENTATION PLANS FOR IMPAIRED STREAM SEGMENTS WITHIN 1 MILE DOWNSTREAM OF AND IN THE SAME WATERSHED AS THE CONSTRUCTION STORM WATER DISCHARGE FROM THE SITE.

## GENERAL NOTES

- 1. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN 25-FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND REPMITS
- 2. ANY AMENDMENT/REVISION TO THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN WHICH HAS A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- 3. AFTER CONSTRUCTION OF THE LANDFILL CAP, EROSION AND SEDIMENTATION SHALL BE MANAGED BY INSTALLATION OF PERMANENT VEGETATION.
- 4. MINIMIZING WIND EROSION AND CONTROLLING DUST SHALL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:
  - A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL
  - B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND.
  - C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.
  - D. PROVIDING GRAVEL OR PAVING AT EXIT DRIVE.
- SILT FENCE SHALL BE INSTALLED TO ACCOMMODATE 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED. SEE CALCULATIONS ON EROSION CONTROL PLANS. OTHER BMPs ARE NOT FEASIBLE DUE TO SITE CONSTRAINTS AND LOCATIONS OF BURIED DEBRIS.
- 3. PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE SUBCONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE DESIGN PROFESSIONAL.
- 7. THE SUBCONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLAN. THE SUBCONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
- 8. THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
- 9. A COPY OF THESE EROSION, SEDIMENTATION & POLLUTION CONTROL PLANS SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 10. THE DESIGN PROFESSIONAL MAY PERFORM PERIODIC AUDITS OF THE SUBCONTRACTOR EROSION CONTROL RECORDS. HOWEVER, REGARDLESS OF WHETHER THESE AUDITS ARE PERFORMED, THE SUBCONTRACTOR SHALL REMAIN RESPONSIBLE FOR THE PROPER MAINTENANCE OF THESE RECORDS.
- 11. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- 12. RAINFALL GAUGE SHALL BE ESTABLISHED AT THE SITE, MONITORING DAILY, AND OBSERVATIONS KEPT ON THE EROSION CONTROL RECORDS.
- 13. 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.
- 14. 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.
- 15. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

## INITIAL PHASE EROSION CONTROL NOTES:

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

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT 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 SHALL CONSIST OF COARSE AGGREGATE BETWEEN 1-1/2" AND 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M288 SEPARATION REQUIREMENTS.
- 2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE EROSION CONTROL PLAN.
- 3. TYPE "SENSITIVE" SILT FENCE SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2, CRITERIA FOR SILT FENCE PLACEMENT. THE SILT FENCE SHALL BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE DESIGN PROFESSIONAL OF RECORD. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHALL BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHALL BE REPAIRED IMMEDIATELY.

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY EPD IN WRITING TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE SUBCONTRACTOR OR PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE SUBCONTRACTOR SHALL CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.

TOPSOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS AND STOCKPILED FOR LATER REUSE ON FINAL GRADE SOIL SURFACES.

NO BURN OR BURY PIT SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE DESIGN PROFESSIONAL.

ALL SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 OF THE "DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA STANDARD SPECIFICATIONS, CONSTRUCTION OF TRANSPORTATION SYSTEMS" (GDOT STANDARD SPECIFICATIONS), LATEST EDITION.

ALL ITEMS IN THESE NOTES SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTIONS 161, 162, 163, AND 164 OF THE GDOT STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED IN THE PROJECT DOCUMENTS.

TEMPORARY SEEDING AND/OR MULCH SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF CESSATION OF LAND DISTURBANCE ACTIVITIES.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH QUALIFYING RAIN EVENT OF 0.5 INCHES OR GREATER. EACH DEVICE SHALL BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED 1/2 THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES SHALL BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH A 1" TO 3" LAYER OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED IMMEDIATELY.

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

THE SITE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY

## INTERMEDIATE PHASE EROSION CONTROL NOTES:

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE CONSTRUCTION OF THE LANDFILL CLOSURE AND GRADING PHASE:

DURING CONSTRUCTION OF THE LANDFILL CAP, THE SUBCONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND LIMITED DURATIONS BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.

EARTHWORK OPERATIONS IN THE VICINITY OF WETLAND BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

NO GROUND DISTURBING ACTIVITIES SHALL OCCUR UNTIL INITIAL PERIMETER CONTROLS AND SEDIMENT STORAGE DEVICES HAVE BEEN INSTALLED. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLAN IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. AS A PART OF THE SCOPE OF THIS

PROJECT, IT IS THE SUBCONTRACTOR'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 IMMEDIATELY BE REPORTED TO THE DESIGN PROFESSIONAL WHO PREPARED THIS PLAN WHO WILL THEN ASSIST THE SUBCONTRACTOR TO ADDRESS THE IDENTIFIED DIFFICULTY.

CUT AND FILL SLOPES ARE NOT TO EXCEED 3(H):1(V).

DOUBLE ROW OF TYPE "SENSITIVE" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS.

SEEDING OF ALL DRAINAGE SWALES SHALL BE PERFORMED TO ESTABLISH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. PLACE SLOPE STABILIZATION ON DITCH SIDES SLOPES.

MULCH OR TEMPORARY SEEDING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF CESSATION OF LAND DISTURBANCE ACTIVITIES, THIS SHALL BE PERFORMED EVEN IF ADDITIONAL GRADING IS PLANNED IN THESE AREAS AT A LATER STAGE OF THE PROJECT.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.

SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH QUALIFYING RAIN EVENT OF 0.5 INCHES OR GREATER. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED 1/2 THE CAPACITY OF THE DEVICE.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH A 1-INCH TO 3-INCH LAYER OF STONE AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED IMMEDIATELY.

THE SITE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS

## FINAL PHASE EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION:

THE SUBCONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

STOCKPILED TOPSOIL SHALL BE APPLIED PER THE LANDFILL CAP DETAILS TO ALL FINAL GRADE SOIL SURFACES. IF SUFFICIENT TOPSOIL IS NOT AVAILABLE TO COVER ALL FINAL GRADE SURFACES, PREFERENCE SHALL BE GIVEN TO CUT AND FILL SLOPE AREAS.

SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH QUALIFYING RAIN EVENT OF 0.5 INCHES OR GREATER. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED 1/2 THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES SHALL BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF MUD ONTO PUBLIC RIGHTS-OF-WAY UNTIL REPLACED WITH PERMANENT PAVING. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH A 1-INCH TO 3-INCH LAYER OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, AS A PART OF THE SCOPE OF THIS PROJECT, 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.

THE SITE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS

ROUGHENED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO OBTAIN OPTIMUM SEED GERMINATION AND SEEDING GROWTH

WHEN THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION AND ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THIS PERMIT HAVE CEASED, T STREET LANDFILL STEERING GROUP SHALL BE CONTACTED TO REVIEW FOR CONCURRENCE. IF CONCURRENCE IS OBTAINED, T STREET LANDFILL STEERING GROUP SHALL SUBMIT A NOTICE OF TERMINATION (N.O.T.).

UPON COMPLETION OF THE CONSTRUCTION ACTIVITIES, THE SUBCONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLAN, ONLY AFTER ALL CONSTRUCTION ACTIVITIES HAVE CEASED AND FINAL STABILIZATION HAS BEEN IMPLEMENTED.

## MAINTENANCE & INSPECTION OF EROSION & SEDIMENT CONTROLS

## MAINTENANCE

THE FOLLOWING BEST MANAGEMENT PRACTICE MAINTENANCE CRITERIA ARE TAKEN FROM THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", 2016 EDITION.

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

SEDIMENT SHALL BE REMOVED FROM SILT FENCES ONCE IT HAS ACCUMULATED TO 1/2 THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY 6 MONTHS).

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY

SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THIS DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND INLETS.

MULCH OR TEMPORARY SEEDING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF CESSATION OF LAND DISTURBANCE ACTIVITIES. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATION TECHNIQUES SHALL BE EMPLOYED.

PERMANENT VEGETATION SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OR SODDING SHALL BE APPLIED IMMEDIATELY TO ALL AREAS AT FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN, OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION. 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.





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WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THIS DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

ROUGHENED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO OBTAIN OPTIMUM SEED GERMINATION AND SEEDING GROWTH.

## CRITICAL WORK ZONE EROSION CONTROL NOTES:

ANY WORK AT OR NEAR EXISTING OR NEW STORMWATER CONVEYING SYSTEMS IS CONSIDERED A CRITICAL WORK ZONE AND THE SUBCONTRACTOR SHALL IMPLEMENT ALL NECESSARY BMPS TO PREVENT ANY DEBRIS OR ANY SEDIMENT FROM EXITING IN DITCHES, SWALES, ETC OFFSITE.

#### ZONINO

THIS SITE IS ZONED: BASIC INDUSTRIAL

#### SURVEY INFORMATIO

THE TOPOGRAPHIC INFORMATION SHOWN IN THESE PLANS WAS PROVIDED TO WOOD BY EMC ENGINEERING SERVICES AND IS DATED AUGUST 29, 2019.

FLOOD INSURANCE RATE MAP NO. 13127CO217H, DATED JANUARY 05, 2018, SHOWS THE SITE MOSTLY WITHIN ZONE X

## RUNOFF COEFFICIENT

- WEIGHTED PRE CONSTRUCTION CN CURVE NUMBER: 79.26
- WEIGHTED POST CONSTRUCTION CN CURVE NUMBER: 75.02

## SOIL TYPES

THE NCRS SOIL TYPES ARE: W, BO, Mb, Ru

## SOIL DISTURBING ACTIVITIES INCLUDE:

- INSTALLING A STABILIZED CONSTRUCTION EXIT, PERIMETER AND OTHER EROSION AND SEDIMENT CONTROLS
- CLEARING & GRUBBING
- GRADING
- CONSTRUCTION OF A LANDFILL CAP
- SITE STABILIZATION
- PREPARATION FOR FINAL PLANTING AND SEEDING
- COMPLETION OF ON-SITE STABILIZATION

## SEQUENCE OF MAJOR ACTIVITIES

SEE CONSTRUCTION SCHEDULE.

24-HOUR CONTACT:
GARROW ALBERSON
PHONE: (012) 267 5540

PHONE: (912) 267-5540 EMAIL: galberson@cityofbrunswick-ga.gov

## NAME OF RECEIVING WATERS

UNNAMED TIDAL SALTWATER MARSH WHICH IS LOCATED AT THE EASTER, SOUTHERN AND WESTERN BOUNDARIES OF THE SITE. THE MARSH DISCHARGES TO TURTLE RIVER SYSTEM LOCATED IN THE SATILLA RIVER BASIN.

## EROSION AND SEDIMENT CONTROLS

LOCATED IN THE SATILLA RIVER BASIN.

ALL PERIMETER SILT FENCES AND CONSTRUCTION EXITS SHALL BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITIES.

EXISTING VEGETATION SHALL BE LEFT IN PLACE UNTIL SUCH TIME THAT LAND DISTURBING ACTIVITIES ARE TO TAKE PLACE UPON THAT PORTION OF THE SITE. WHEN CONSTRUCTION ACTIVITIES HAVE CEASED IN AN AREA, THAT AREA SHALL BE STABILIZED AFTER 14 DAYS. IF THE AREA IS NOT YET TO FINAL GRADE, IT SHALL BE MULCHED. IF THE AREA IS TO FINAL GRADE AND WILL EVENTUALLY CONTAIN SITE IMPROVEMENTS SUCH AS THE STRUCTURES OR SIDEWALKS, IT SHALL BE TEMPORARY SEEDED. AREAS BROUGHT TO FINAL GRADE THAT WILL REMAIN PERVIOUS ARE TO BE PERMANENTLY SEEDED. ALLOWABLE EXCEPTIONS FROM THE NPDES GENERAL PERMIT, GAR 100001, ARE NOTED BELOW.

WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

REFER TO THE CONSTRUCTION SCHEDULE FOR THE LAND DISTURBANCE CONSTRUCTION SCHEDULE AND TEMPORARY AND PERMANENT GRASSING SCHEDULES.

STORMWATER FROM THIS DEVELOPMENT WILL BE ROUTED VIA SURFACE SHEET FLOW. THE STORMWATER FROM THIS SYSTEM DISCHARGES INTO AN UNNAMED TIDAL SALTWATER MARSH WHICH IS LOCATED AT THE EASTER, SOUTHERN AND WESTERN BOUNDARIES OF THE SITE. THE MARSH DISCHARGES TO TURTLE RIVER SYSTEM

## OTHER CONTROLS

NO WASTE SHALL BE DISPOSED OF INTO STORMWATER INLETS OR WATERS OF THE STATE

#### WASTE MATERIALS

ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER SHALL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK, OR MORE OFTEN IF NECESSARY, AND TRASH SHALL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE SHALL BE BURIED ON-SITE.

ALL PERSONNEL SHALL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES SHALL BE POSTED AT THE JOB SITE AND THE SUBCONTRACTOR IS RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

#### AZARDOUS WASTES

ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, SHALL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. SAFETY DATA SHEETS (SDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE SHALL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN SDS SHALL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH SDS SHALL BE MAINTAINED IN THE ESPC PLAN FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES SHALL BE INSTRUCTED ON THE USE OF SDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE SDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE SUBCONTRACTOR SHALL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPC PLAN AND SHALL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES SHALL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE SHALL BE CONTAINED ON-SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

## ANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT SHALL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS SHALL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE, BY THE SUBCONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

## OFF-SITE VEHICLE TRACKING

STABILIZED CONSTRUCTION EXITS HAVE BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE EROSION CONTROL PLANS FOR CONSTRUCTION EXIT LOCATIONS AND DETAIL. RADIUM SPRINGS ROAD ADJACENT TO THE SITE EXIT SHALL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL HAVE LOADS COVERED WITH A TARPAULIN.

## INVENTORY FOR POLLUTION PREVENTION PLAN

THE FOLLOWING MATERIALS ARE EXPECTED ON-SITE DURING CONSTRUCTION: PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, ADDITIVES FOR SOIL STABILIZATION, PESTICIDES, FERTILIZERS, HERBICIDES AND CRUSHED STONE.

## SPILL PREVENTION

PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES SHALL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND THE RISK OF SPILLS FROM DISCHARGING INTO STORMWATER RUNOFF.

## GOOD HOUSEKEEPING

QUANTITIES OF PRODUCTS STORED ON-SITE SHALL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.

- 1. PRODUCTS AND MATERIALS SHALL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL WHERE POSSIBLE.
- 2. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
- 3. PRODUCT MIXING, DISPOSAL AND DISPOSAL OF PRODUCT CONTAINERS SHALL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- 4. THE SUBCONTRACTOR SHALL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL

## PRODUCT SPECIFIC PRACTICES

CONCRETE TRUCK WASHING - BERMED CONTAINMENT AREAS SHALL BE ESTABLISHED FOR CONCRETE TRUCKS TO WASH DOWN TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

FERTILIZER/HERBICIDES - THESE PRODUCTS SHALL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS SHALL BE UNDER ROOF IN SEALED CONTAINERS.

FOR BUILDING MATERIAL, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT IN THE SITE, COVER WITH PLASTIC SHEETING TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS.

## SPILL PREVENTION, CONTROL AND COUNTER MEASURES PLAN

THE SUBCONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM PRODUCTS ARE STORED ON-SITE (THIS INCLUDES FLUIDS WITHIN EQUIPMENT) IN VOLUMES OF 55 GALLONS OR GREATER. IF THIS CONDITION EXISTS, THE SUBCONTRACTOR WILL NEED A SPILL PREVENTION, CONTROL AND COUNTERMEASURE (SPCC) PLAN PREPARED BY A LICENSED PROFESSIONAL ENGINEER (PE) OF THE STATE.

- PETROLEUM BASED PRODUCTS CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS SHALL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS SHALL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION.
- DISCHARGE OF OILS, FUELS AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
- LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL
  STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS,
  DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY
  LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES SHALL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY, REGARDLESS OF WHETHER THEY ARE TO SURFACE WATER OR NOT.
- ONLY SPILLS TO SURFACE WATERS (LEAVE A SHEEN ON SURFACE OF STREAMS, CREEKS, WETLANDS, RIVERS, ETC.) MUST BE REPORTED TO THE RESPONSE AGENCIES (NRC, GEORGIA EPD, LOCAL EMERGENCY PLANNING COMMITTEE/FIRE DEPARTMENT).
- T STREET LANDFILL STEERING GROUP SHOULD BE CONTACTED IMMEDIATELY FOLLOWING DISCOVERY (WITHIN 15 MINUTES OF DISCOVERY). T STREET LANDFILL STEERING GROUP WILL MAKE ALL NOTIFICATIONS TO FEDERAL, STATE & LOCAL AGENCIES.

T STREET LANDFILL STEERING GROUP RESPONSE PERSON AND NUMBER IS SHANNON BETTS AT (404)

- PLEASE PROVIDE THE APPROPRIATE DETAILS OF THE SPILL/RELEASE INCLUDING DATE & TIME OF SPILL/RELEASE, MATERIAL INVOLVED, QUANTITY/VOLUME, INJURIES (IF ANY), WATERS/PROPERTIES IMPACTED, ACTIONS TAKEN TO STOP THE SPILL/RELEASE.
- GEORGIA EPD EMERGENCY OPERATIONS CENTER'S CONTACT NUMBER IS 1-800-241-4113.
- GLYNN COUNTY LEPC CONTACT NUMBER IS 912-554-7826.
- THE NATIONAL RESPONSE CENTER (NRC) CONTACT NUMBER IS 1-800-424-8802.
- SPILL CLEANUP DEBRIS AND MATERIAL SHALL BE DISPOSED OF IN APPROVED OFF-SITE LANDFILLS; COORDINATE WITH T STREET LANDFILL STEERING GROUP.

## INSPECTIONS

## PRIMARY PERMITTEE.

- 1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREA OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
- 3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY, IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL

MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.a(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

- 4. CERTIFIED PERSONAL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (LE. UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- 6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ANY INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT.





NO	DATE REVISIONS		NO DATE	REVISIONS	BY AP.	NOTICE  This drawing has not been published and is the sole property of T STREET LANDFILL STEERING GROUP and is lent to the borrower for their confidential use only;	DWG. NO.	REFERENCE DRAW	T STREET LANDFILL CLOSURE GLYNN COUNTY	1	ES&P0	CNOTES	
						and in consideration of the loan of this drawing the borrower promises and agrees that it shall not be			BRUNSWICK, GA	ENG. LKR	JOB NO. 6123-20-1372	DATE 05/19/2020	
						reproduced, copied, lent or otherwise disposed of directly				DR.	W. O.	DWG. NO.	REV.
0 2	20MAY20 ISSUED FOR CONSTRUCTION	LKR PWM				or indirectly, nor used for any purpose other than for which it is specifically furnished.				CH.		6123-20-1372-C-602	
A	O7MAY20 FOR OWNER REVIEW	LKR   PWM   /				willer it is specifically furnished.				AP. PWM			

SHOULD THE INSPECTION REVEAL ANY DEFICIENCIES, A COPY OF THE "EROSION & SEDIMENTATION INSPECTION AND MAINTENANCE REPORT" SHALL BE SENT TO:

T STREET LANDFILL STEERING GROUP
SHANNON BETTS (ON BEHALF OF T STREET LANDFILL STEERING GROUP)
PHONE: (404) 652-3916

ATTN: INSPECTOR
(TO BE DETERMINED)

EMAIL: SHANNON.BETTS@GAPAC.COM

## STORMWATER SAMPLING

## SAMPLE ANALYSIS

STORMWATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001."

STORMWATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNIT (NTU) AT THE OUTFALL LOCATION(S). A DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 50 NTU, AS PER APPENDIX B IN PERMIT NO. GAR 100001 FOR RECEIVING WATERS WHICH SUPPORT WARM WATER FISHERIES. THE NTU IS BASED UPON A CONSTRICTION SITE OF 33 ACRES AND A SURFACE WATER DRAINAGE AREA OF LESS THAN 4.99 SQUARE MILES.

## SAMPLE TYPE

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE DEPENDED BY THE EDD.

SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

LARGE MOUTH, WELL-CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHALL BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY BUT IN NO CASE LATER THAN 48-HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

## SAMPLE POINTS

THERE SHALL BE TWO STORMWATER SAMPLING LOCATIONS NUMBERED 1 AND 2. AS SHOWN ON C-400. PER NPDES PERMIT GAR 100001, FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST COMPLETE ALL SAMPLING.

OUTFALL SAMPLING WILL BE PERFORMED FOR THIS PROJECT. INSTALL SAND BAGS AT THE ROCK FILTER DAMS TO COLLECT SAMPLES.

- CARE SHALL BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENT IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.
- THE SAMPLING CONTAINER SHALL BE HELD SO THAT THE OPENING FACES UPSTREAM.
- THE SAMPLING SHALL BE KEPT FREE FROM FLOATING DEBRIS
- THE PRIMARY PERMITTEE DOES NOT HAVE TO SAMPLE SHEET FLOW ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT

## SAMPLING FREQUENCY

## STORMWATER SAMPLES SHALL BE TAKEN FOR THE FOLLOWING STORM EVENTS:

A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT

② CONSTRUCTION SCHEDULE											
ACTIVITY		MONTHS									
ACTIVITY	1	2	3	4	5	6	7				
INSTALL EROSION & SEDIMENT CONTROL BMP'S	_										
MAINTAIN EROSION & SEDIMENT CONTROL BMP'S	1===										
DEMOLITION, CLEARING & GRUBBING											
GRADING											
TEMPORARY VEGETATION & MULCHING											
LANDFILL CAP CONSTRUCTION											
INTERMEDIATE EROSION CONTROL BMP'S		_					-				
PERMANENT STABILIZATION											
REMOVAL OF EROSION BMP'S											

OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN PERMIT GAR 100001 AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;

- B. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN PERMIT GAR 100001 EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A N.O.T., IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST.
- C. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMP'S IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.
- D. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.a.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE.
- E. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

## REPORTING

FOR THE MONTHS WHEN SAMPLING IS PERFORMED, A SUMMARY OF THE MONITORING RESULTS SHALL BE SENT BY THE 5TH OF EACH MONTH TO THE OWNER ELECTRONICALLY AND TO THE INSPECTOR BY RETURN RECEIPT REQUESTED CERTIFIED MAIL (OR SIMILAR SERVICES) IN ACCORDANCE WITH PART IV.E.3 OF THE PERMIT. THE REPORT SUMMARY SHALL INCLUDE:

- THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
- THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- THE DATE(S) ANALYSES WERE PERFORMED;
- THE TIME(S) ANALYSES WERE INITIATED;
- THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
- REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
- THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
- RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
- CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THE NPDES GAR 100001. ADDRESSES ARE PROVIDED BELOW:

## GOVERNING AGENCY:

COASTAL DISTRICT-BRUNSWICK OFFICE GEORGIA ENVIRONMENTAL PROTECTION DIVISION 400 COMMERCE CENTER DRIVE BRUNSWICK, GEORGIA 31523-8687 PHONE: (912) 264-7284

OWNER:
T STREET LANDFILL STEERING GROUP
SHANNON BETTS (ON BEHALF OF T STREET LANDFILL STEERING GROUP)
PHONE: (404) 652-3916

ATTN: INSPECTOR
(TO BE DETERMINED)

## COMPLIANCE WITH EROSION, SEDIMENTATION & POLLUTION CONTROL REGULATIONS

EMAIL: SHANNON.BETTS@GAPAC.COM

THE SUBCONTRACTOR SHALL COMPLY WITH THESE ES&PC PLANS IN ORDER TO MINIMIZE EROSION AND POLLUTION AT THIS JOB SITE. THE SUBCONTRACTOR SHALL SUBMIT WRITTEN EVIDENCE OF SUCH COMPLIANCE IF REQUESTED BY THE OWNER OR ANY AGENT OF A REGULATORY BODY. THE SUBCONTRACTOR SHALL COMPLY WITH ALL CONDITIONS RELATED TO MAINTAINING THE ES&PC PLANS AND EVIDENCE OF COMPLIANCE WITH THE ES&PC PLANS AT THE JOB SITE AND ALLOWING REGULATORY PERSONNEL ACCESS TO THE JOB SITE AND TO RECORDS IN ORDER TO DETERMINE COMPLIANCE.

## RETENTION OF RECORDS

- 1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A N.O.T. IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE NPDES PERMIT, GAR 100001:
- A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
- B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THE

## NPDES, GAR 100001 PERMIT;

- C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE NPDES, GAR 100001 PERMIT;
- D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THE NPDES, GAR 100001 PERMIT:
- E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THE NPDES, GAR 100001 PERMIT;
- F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THE NPDES, GAR 100001 PERMIT; AND
- G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(2). OF THE NPDES,
- COPIES OF ALL NOTICES OF INTENT' NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION), OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THE NPDES GAR 100001 PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE NPDES, GAR 100001 PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

## DESIGN PROFESSIONAL'S CERTIFICATION:

- "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, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORMWATER OUTFALLS AND THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."
- 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 SUPERVISION."
- B. "I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100001, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."

Lauren K. Rainey	
GSWCC LEVEL II DESIGN PROFESSIONAL	CERTIFICATION # 000008832
DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION	

DATE OF INSPECTION	 

I, THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY THE EPD IN WRITING, HAVE INSPECTED THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION.

\_\_\_ THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED.

THE DEFICIENCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED.

\_\_\_ THESE BMPs HAVE NOT BEEN INSTALLED AND ARE NOT BEING MAINTAINED AS DESIGNED.

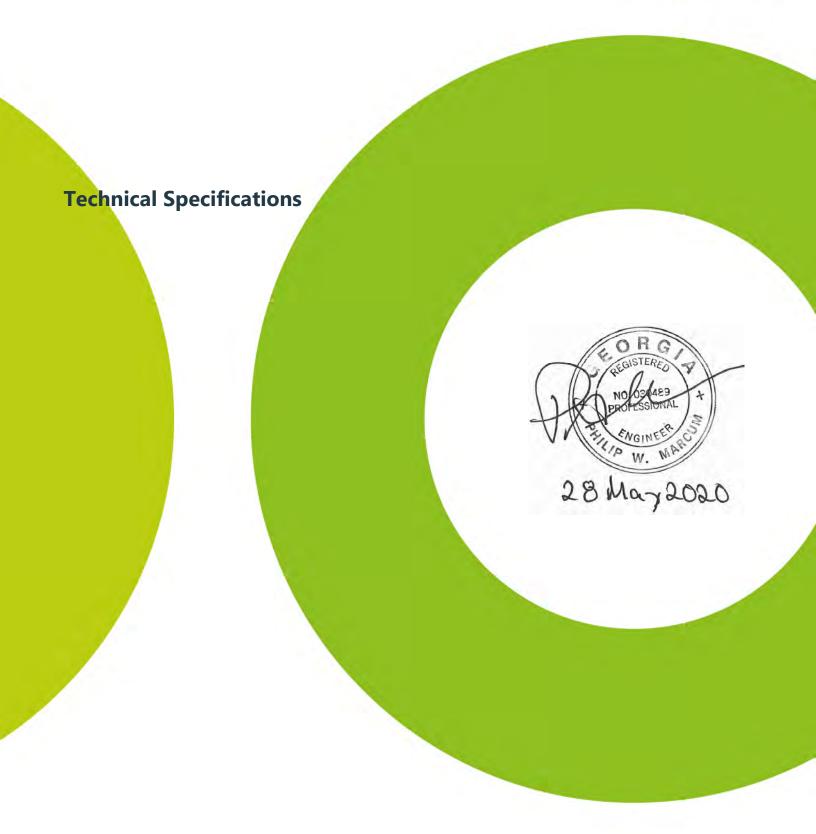
IF DEFICIENCIES ARE ENCOUNTERED, THE RESULTS OF THE INSPECTION WILL BE REPORTED TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS. THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

GSWCG LEVEL II DESIGN PROFESSIONAL	CERTIFICATION #	
INSPECTION REVEALED THE FOLLOWING DISCRE	PANCIES FROM THE ESPC PLAN.	GSWCC GEORGE CONSE
		Lauren K Rainey

GSWCC	GEORGIA SOIL AND WATER CONSERVATION COMMISSION
Lauren K	Rainey
Level II Certified D	esign Professional
CERTIFICATION NUMBER _	0000088324
ISSUED: 06/25/2019	EXPIRES: 06/25/2022

NO		REVISIONS	BY AP.	NO D	ATE	REVISIONS	BY AP.	NOTICE This drawing has not been published and is the sole	DWG. NO.	REFERENCE DRA	AWINGS	T STREET LANDFILL CLOSURE	T	FS&P	C NOTES	
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								and in consideration of the loan of this drawing the borrower promises and agrees that it shall not be				BRUNSWICK, GA	ENG. LKR	JOB NO. 6123-20-1372	DATE 05/19/2020	
								reproduced, copied, lent or otherwise disposed of directly					DR.	W. O.	DWG. NO.	REV.
		ISSUED FOR CONSTRUCTION I	LKR PWM					or indirectly, nor used for any purpose other than for					CH.		6123-20-1372-C-603	
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wood.



## T STREET LANDFILL CAP

PROJECT NUMBER 6123-19-1266 20MAY2020



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**Project Title:** T Street Landfill Closure Project #: 6123-19-1266 Client: T Street Landfill Steering Group Client #: **APPROVAL STATUS** PREPARED BY Lauren Rainey, Project Engineer May 20, 2020 Name, Title Date **REVIEWED BY:** Philip Marcum, Project Manager May 20, 2020 Name, Title Date **ACCEPTED BY:** Philip Marcum, Project Manager May 20, 2020 Name, Title Date **REVISION STATUS REV REVISED CHECKED** APPROVAL DATE **ISSUED FOR** BY BY [XX MONTH [PROJ.MGR] [LEAD] [DEPT] XXXX] Α 30% Submittal LKR GH **PWM** 05MAY2020 0 100% Submittal LKR **PWM PWM** 20MAY2020



## GEORGIA-PACIFIC ENGINEERING STANDARD SECTION 2 – SITEWORK SW02102-001

SW02102-001 CLEARING AND GRUBBING



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#### PART 1 GENERAL

#### 1.1 DESCRIPTION

1.1.1 Clear from site all trees and shrubs and brush within construction limits or as shown on plans. This should include removal of all roots and organic material below ground.

## PART 2 EXECUTION

#### 2.1 CLEARING

- 2.1.1 Clear the site of obstructions which in their present locations would interfere with construction. All items specifically noted on drawings to be removed or items which will be replaced with new construction shall be removed from site.
- 2.1.2 Landfill debris located within the existing wetlands or 25' protective buffer as shown on the plans shall be brought within the limits of the landfill closure project.
- 2.1.3 Remove trees, shrubs, brush, logs, stumps, and natural growth within the construction limits.
- 2.1.4 Remove all debris and spoil that will not be used during site regrading within 30 days of accumulation and dispose of offsite.

#### 2.2 PROTECTION

- 2.2.1 Provide required batteries, warning signs and personnel to assure protection of roads, drives, utilities, adjacent sites and other work throughout time required to perform the work.
- 2.2.2 Preserve and protect from damage, any trees outside of construction limits.
- 2.2.3 Paint any cut or scarred trees and shrubs with asphaltum base tree paint.

#### 2.3 GRUBBING

2.3.1 Remove all stumps, roots, and matted roots to a depth of 2' within the limits of grubbing.

#### 2.4 REMOVAL

- 2.4.1 Remove all debris and spoil that will not be used during site regrading within 30 days of accumulation and dispose of offsite.
- 2.4.2 Burning of debris is not permitted.

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# GEORGIA-PACIFIC ENGINEERING STANDARD SECTION 2 – SITEWORK SW02110-001 DEMOLITION

Georgia-Pacific

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## PART 1 GENERAL

#### 1.1 DESCRIPTION

- 1.1.1 The extent of the work is listed herein but not necessarily limited to the following:
- 1.1.1.1 Demolition and removal of designated structures, equipment, conveyor systems, trailers or metal structures.
- 1.1.1.2 Demolition and removal of foundations and slabs-on-grade.
- 1.1.1.3 Disconnection and removal of designated utilities.
- 1.1.1.4 Disconnection and removal of underground piping.
- 1.1.1.5 Disconnection and removal of designated chain link fences.
- 1.1.1.6 Disconnection and removal of totes, tanks, and containers.

#### 1.2 SALVAGE

1.2.1 The following items shall be salvaged by the Contractor and suitably gathered and stored on the site for future use by the Owner – NONE.

#### 1.3 PRECAUTIONS

- 1.3.1 Conduct demolition operations and the removal of debris to ensure minimum interference with adjacent roads.
- 1.3.2 Promptly repair damages caused to adjacent roads by demolition operations, as directed by the Construction Coordinator and at no cost to the Owner.
- 1.3.3 Maintain existing utilities not noted to be removed, in service and protect against damage during demolition.
- 1.3.4 Protect all site bench marks, monuments, witness post, stakes or survey features. Notify Construction Manager immediately if any survey features are disturbed or destroyed.

#### 1.4 SCHEDULING AND COORDINATION

1.4.1 Coordination of scheduling for demolition activities will not be necessary as the landfill site is not operational.

#### 1.5 CODES AND STANDARDS

1.5.1 Standard Unsafe Building Abatement Code and the International Building Code, latest edition.

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## GEORGIA-PACIFIC ENGINEERING STANDARD SECTION 2 – SITEWORK SW02110-001 DEMOLITION



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1.5.2 Safety and Health Regulations of the U.S. Department of Labor, Occupational Safety and Health Administration.

#### PART 2 MATERIALS

#### 2.1 DEMOLITION

2.1.1 All shoring, scaffolding, and other materials required for demolition work shall meet all of the strength and safety requirements of the above Codes and Regulations. No demolition is to proceed without shoring all items that would become unsafe if the work of this section were done.

### PART 3 EXECUTION

#### 3.1 DEMOLITION

- 3.1.1 Use water sprinkling, temporary enclosures and other suitable methods as necessary to limit the amount of dust and dirt rising and scattering in the air, to the lowest level of air pollution practical for the condition existing prior to the start of the work.
- 3.1.2 Remove from the site all debris, rubbish and other materials resulting from demolition operations. Storage or sale of removed materials will not be permitted on the site.
- 3.1.3 Maintain appropriate temporary erosion and sediment control measures.
- 3.1.4 Notify the owner's representative immediately if any hazardous, contaminated, or unknown materials are discovered; or if damage occurs to utilities not scheduled for removal.
- 3.1.5 Remove all items included in the demolition portion of the work completely with the limits established by the drawings, standards, and agreements established by the contract documents. All surfaces shall be left in a clean state.
- 3.1.6 All demolition debris shall be removed on a daily basis. Do not stockpile debris or material in the area of the project. All debris shall be disposed of according to owner's directions and standard procedures.
- 3.1.7 All demolition of asbestos containing material shall be done in accordance with government regulations and local standard procedures. All necessary forms and paperwork shall be initiated and submitted to the regulating bodies by the contractor. The contractor shall have the proper licenses and experience to do the asbestos abatement work of the project.
- 3.1.8 When demolition includes electrical components, all associated wiring and conduit shall also be removed.

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## **GEORGIA-PACIFIC ENGINEERING STANDARD**

## SECTION 2 – SITEWORK SW02220-001

SITE EXCAVATION & BACKFILL



PART 1 GENERAL

Revision 1: 03/22/2010

#### 1.1 SCOPE

1.1.1 This work shall include excavation and backfill together with any required bedding materials, moisture control and compaction, disposal of excess excavated materials or providing additional fill material if required, and all subsidiary work necessary to complete the work to conform to the grades, lines and slopes shown on the drawings or, if not specified, restoration in kind of areas affected by construction.

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1.1.2 Except where more specific or restrictive requirements are detailed on the drawings or specifically outlined in the scope section of this standard, the requirements in this standard are the basic minimums that shall apply to "The Work" as outlined in Section 2 of the General Conditions.

#### 1.2 EXCAVATION

- 1.2.1 It is expected that the Contractor will encounter within the project bounds: ground water, soft spots, areas containing organic and non-compactable soils and possible minor underground obstructions in the excavation which are not shown on the drawings. Where these are of a minor nature and do not require equipment that would not be normally used for excavation operations or do not require substantial over excavation, they shall be removed without additional compensation.
- 1.2.2 Obstructions such as boulders over 3' in minor or least dimension, logs, concrete blocks or any other object requiring additional special equipment and labor for its removal shall be considered extra work unless specifically called out or identified on the drawings or in this standard.
- 1.2.3 All excavated materials not used in construction, materials designated as wasted excavation, or unsuitable materials shall be removed from the Owner's property.

#### 1.3 OVER EXCAVATION AND/OR UNSUITABLE BACKFILL

- 1.3.1 Unsuitable excavated materials are generally considered to be organic and/or non-compactable materials and shall be selectively discarded prior to or during backfilling operations.
- 1.3.2 Any areas requiring over excavation, wasting of excavated material and backfilling with suitable material below regular designated subgrade requirements shall be extra work.
- 1.3.3 In the event there are inadequate quantities of reusable backfill derived from the required excavation, the quantities of approved fill material required to make up the deficiency and wasting of a comparable quantity of unsuitable materials shall be considered extra work. Excessive moisture content on otherwise suitable materials, whether natural or resulting from weather and construction procedures shall not be a basis for classification as unsuitable fill material.
- 1.3.4 The following limitations and conditions govern the extra work for over excavation or unsuitable fill conditions as described in subparagraphs B and C:
- 1.3.4.1 The work must be authorized by and as directed by the Owner's Representative.

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## **GEORGIA-PACIFIC ENGINEERING STANDARD**

## SECTION 2 – SITEWORK SW02220-001

SITE EXCAVATION & BACKFILL



1.3.4.2 The extra work shall not apply to known areas of unsuitable materials noted on the drawings or called out in the standards.

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#### 1.4 PUMPING

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1.4.1 Pumping shall be provided by the Contractor at no additional expense to the Owner in order to keep all excavations free from water.

## PART 2 MATERIALS

#### 2.1 GENERAL

- 2.1.1 It shall be the Contractor's responsibility to provide materials well graded from coarse to fine that meet the required material gradation and standards.
- 2.1.2 At least 2 weeks before placing any fill, the Contractor shall notify the Owner as to the source of fill material. The Owner will check the source for compliance with the standards and also run tests as necessary to establish fill control curves.
- 2.1.3 The materials selected by the Contractor are subject to initial and continuing approval of the Owner's Representative.

## PART 3 INSTALLATION

#### 3.1 AREA SUB-GRADE APPROVAL AND FILL PLACEMENT

3.1.1 Prior to placing any fill on subgrade, the surface shall be proof-rolled by tracking with a sheep foot or tamping roller. Soft spots shall be removed and replaced with compacted backfill. See Article 1.2.2. Owner approval of subgrade is required prior to commencement of filling.

#### 3.2 SOIL AND SUBGRADE COMPACTION REQUIREMENTS

- 3.2.1 The moisture content of materials involved in subgrade preparation and structural fill material shall be kept within the limits that will permit compaction meeting the requirements of this standard.
- 3.2.2 Unless more restrictive requirements are required by the drawings or in these standards, earthwork shall be compacted to at least 95% of maximum dry density as determined by ASTM D1557.
- 3.2.3 The compaction requirements shall include but are not necessarily limited to backfilling required for over excavated areas, subgrade preparation, road surface subgrades, subgrade for slope projection, etc.
- 3.2.4 The Owner or a representative from a testing service engaged by the Owner will field check soil compaction for compliance with standard requirements. If the average density of a lift is more than 2% below the required average, the lift will be immediately rejected.
- 3.2.5 If any tests indicate that the specified densities are not being obtained, the material shall be reworked, recompacted and retested for compliance with these standards before the next lift is placed.

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