TERRELL HEIGHTS STORM SEWER IMPROVEMENTS PHASE 2 CARTERSVILLE, GEORGIA

CLIENT	CITY OF CARTERSVILLE, PUBLIC WORKS 330 S. ERWIN STREET CARTERSVILLE, GA 30120 CONTACT: WADE WILSON, PE
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EMA NOTE HIS PARCEL IS NOT LOCATED IN A FLOO EDERAL EMERGENCY MANAGEMENT AG OMMUNITY NO. 13015C, PANEL NOS. 026	D HAZARD AREA ACCORDING TO ENCY FLOOD INSURANCE RATE MAP 2H, 0264H, 0266H AND 0268H, DATED

ABARBER 37\37697\3769701\04_CAD\GENL\PHASE 2\G0.00_COVER_PHASE 2.dwg :7\31/2023



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BARGE

DESIGN SOLUTION

DRAWINGS

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STORM SEWER IMPROVEMENTS PHASE 2 CARTERSVILLE, GEORGIA

GO.00 PROJECT No. 37697-01

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Digitally signed by David Lavergne DN: CN=David Lavergne, OU=Laptops, OU=JBA, OU=BWSC Users, OU=BWSC, DC=corp, DC=bwsc, DC=net Date: 2023.08.21 11.42:56.04(00)

www.call811.com

David Lavergne OU=BWSC Users,

GENERAL NOTES

- 1. THE FOLLOWING NOTES ARE APPLICABLE TO ALL CIVIL DOCUMENTS.
- THE CONTRACTOR SHALL USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS. WHERE A CONFLICT OCCURS, THE STRICTEST DESIGN SHALL GOVERN. ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INFORM THE OWNER AND ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS AND OBTAIN OWNER'S AND ENGINEER'S WRITTEN APPROVAL OF THE SPECIFIC DEVIATION.
- THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND OBTAIN ALL PERMITS AND BOND, IF REQUIRED, PRIOR TO BEGINNING WORK.
- 4. ALL RADII SHALL BE 5' UNLESS OTHERWISE NOTED. DIMENSIONS ARE TO THE FACE OF CURBS, EDGE OF CONCRETE, OR TO FACE OF BUILDING, UNLESS OTHERWISE NOTED.
- CURBS SHALL BE PARALLEL TO THE CENTERLINE OF DRIVES. THE CURB SHALL BE PLACED ONLY AFTER HAVING ALL BREAK POINTS (PC & PT OF CURVES) LOCATED AT THE FACE OF CURB OR AT A CONSISTENT OFFSET BY A LAND SURVEYOR.
- 6. THE SITE LAYOUT IS BASED ON THE CONTROL POINTS AS NOTED.
- 7. DO NOT SCALE DRAWING AS THEY ARE REPRODUCTION AND SUBJECT TO DISTORTION.
- 8. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE STARTING ANY WORK. DAMAGES TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED ACCORDING TO LOCAL STANDARDS AND SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
- THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATIONS AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATING, RELOCATION AND TIE-IN TO PUBLIC UTILITIES. ALSO, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL INSPECTORS A MINIMUM 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES, VERIFY WITH GOVERNING AGENCY
- PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES PRIOR TO INSTALLATION OF PAVEMENT.
- 11. CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH. ALL CONCRETE SHALL BE CLASS "A" (4,000 P.S.I.), UNLESS OTHERWISE NOTED.
- 12. ALL DAMAGE TO EXISTING ASPHALT PAVEMENT TO REMAIN, WHICH RESULTS FROM NEW CONSTRUCTION, SHALL BE REPLACED WITH LIKE MATERIALS AT CONTRACTOR'S EXPENSE.
- 13. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THE USE OF EQUIPMENT IN AND AROUND OVERHEAD ELECTRICAL WIRES AND SERVICES. IF AT ANY TIME IN THE PURSUIT OF THIS WORK, THE CONTRACTOR MUST WORK IN CLOSE PROXIMITY OF THE ABOVE NOTED WIRES, THE ELECTRICAL COMPANY SHALL BE CONTACTED PRIOR TO SUCH WORK AND THE PROPER SAFETY MEASURES TAKEN.
- 14. IN EASEMENTS AND RIGHTS-OF-WAY, CONTRACTOR SHALL PROTECT AND RESTORE SAID PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION EXCEPT AS NOTED.
- 15. THESES PLANS, PREPARED BY BARGE DESIGN SOLUTIONS., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF BARGE DESIGN SOLUTIONS REGISTERED PROFESSIONAL ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND /OR LOCAL REGULATIONS.
- 16. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.
- 17. UNLESS NOTED, SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW. DESIGN DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- 18. ALL REQUIRED TESTING REPORTS SHALL BE AVAILABLE AT THE JOB SITE.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF TN PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED AND PAID FOR BY THE CONTRACTOR.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING VEGETATION DURING CONSTRUCTION. THE COST TO REPLACE OR RESTORE VEGETATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 21. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ON COPY OF THE CURRENT CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED PERMITS.
- 22. ALL PAVING, CONSTRUCTION, MATERIALS AND WORKMANSHIP WITHIN THE STATE ROW SHALL BE IN ACCORDANCE WITH (GDOT'S) SPECIFICATIONS AND STANDARDS (LATEST EDITION).
- 23. ALL PAVING, CONSTRUCTION, MATERIALS AND WORKMANSHIP WITHIN THE CITY OF CARTERSVILLE RIGHT-OF-WAY (ROW) SHALL BE IN ACCORDANCE WITH CITY OF CARTERSVILLE SPECIFICATIONS AND STANDARDS (LATEST EDITION).
- 24. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
- 25. ANY WELLS DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.

GRADING NOTES

- 1. ALL STORMWATER PIPES, STRUCTURES, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF CARTERSVILLE STANDARD SPECIFICATIONS AND DETAILS.
- 2. NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY CITY ENGINEER.
- 3. STRIP ALL TOPSOIL AND OTHER DELETERIOUS MATERIALS AS PER SOIL CONSULTANT'S OR GREEN SPACE AREAS.
- 4. ALL TOPSOIL, FILL MATERIAL, EXISTING FOUNDATIONS, UTILITIES, UNDER GROUND TANKS, PAVEMENT, BASE AND ANY OTHER DELETERIOUS MATERIALS SHALL BE COMPLETELY REMOVED FROM WITHIN THE BEARING ZONE BELOW THE STRUCTURE.
- 5. ADJUST FINAL GRADES TO EXISTING PAVEMENTS TO ASSURE A SMOOTH TRANSITION.
- 6. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS. SUBGRADE SOFTENED BY PERCHED WATER IN FOUNDATIONS AND PAVEMENT AREAS MUST BE UNDERCUT AND RE-COMPACTED WITH SUITABLE FILL MATERIAL AS DIRECTED BY THE ON-SITE SOIL CONSULTANT.
- 7. FILL ALL PLANTERS/ISLANDS TO TOP OF CONCRETE CURB WITH TOPSOIL. TOPSOIL TO BE CLEAN AND FREE OF DEBRIS, ETC.
- TRENCH CONSTRUCTION, EXCEED THOSE SPECIFIED IN LOCAL, STATE AND FEDERAL EXCAVATIONS (29 CRF PART 1926) SHALL BE FOLLOWED
- 9 SLOPE ON CURBS. THE MAXIMUM SLOPE IN HANDICAP PARKING OR OTHER ADA DESIGNATED AREAS SHALL BE 2.0%.
- 10. ALL GRADED AREAS, INCLUDING SLOPES, ARE TO BE MULCHED, SEEDED, AND/OR SODDED AS SOON AS POSSIBLE AFTER GRADING IS COMPLETED.
- 11. CONSTRUCT EROSION CONTROL AS SHOWN ON DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
- 12. ALL NEW STRUCTURES AND EXISTING STRUCTURES SHALL HAVE SEDIMENT REMOVED PRIOR TO ACCEPTANCE.
- 13. SILT BARRIERS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED WITH SUCH SEDIMENT.
- 14. ALL DIMENSIONS AND LOCATIONS OF TEMPORARY EROSION AND WATER POLLUTION REPRESENTATIVE.
- 15 REQUIRED FOR THE INTENDED PURPOSE IN THE OPINION OF THE OWNER'S REPRESENTATIVE THEY SHALL BE REMOVED.
- REPRESENTATIVE AND CITY ENGINEER.
- 17. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO BEGINNING WORK.
- 18. CONTOUR LINES AND SPOT ELEVATIONS ARE BASED ON ESTABLISHED PROJECT BENCHMARK, WHICH THE CONTRACTOR SHALL VERIFY WITH TOPOGRAPHY SURVEY. **BEGINNING WORK.**
- 19. ALL UN-SURFACED AREA DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES MATTING INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO MAINTAIN DISTURBED AREAS UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
- 20. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE PONIT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. ANY MUD/CONSTRUCTION DEBRIS THAT MAY BE TRANSPORTED ONTO SURROUNDING ROADS OR PARKING AREAS SHALL BE SWEPT AND CLEANED IMMEDIATELY.
- OSHA REGULATIONS.
- 22. CONSTRUCTION ENTRANCE SHALL BE IN PLACE PRIOR TO ANY COMBUSTIBLES, I.E. TO ALL AREAS OF THE CONSTRUCTION SITE THAT WILL CONTAIN COMBUSTIBLES RADIUS CAPABLE OF SUPPORTING THE IMPOSED LOADS OF THE FIRE DEPARTMENT PROCESS.
- 23. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 24. EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT (1' FOOT).
- 25. THIS GRADING AND DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE THE CONTRACTOR.
- 26. DO NOT DISTURB VEGETATION OR REMOVE ANY EXISTING TREES EXCEPT WHERE DESIGNATED ON THE PLAN.
- LONGITUDINALLY WITH THE PAVEMENT GRADES.

FOR GRADING PURPOSES AND ONLY AS APPROVED BY OWNER'S REPRESENTATIVE AND

GEOTECH REPORT, TO ACCOMPLISH GRADING AS INDICATED ON THE PLANS. STOCKPILE TOPSOIL IN AREA(S) DESIGNATED BY THE OWNER FOR REUSE IN LANDSCAPE ISLANDS AND /

IN NO CASE SHALL SLOPE HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH, INCLUDING REGULATIONS, SPECIFICALLY THE CURRENT OSHA HEALTH AND SAFETY STANDARDS FOR

MINIMUM SLOPE ON ASPHALT OR CONCRETE PAVING SHALL BE 1.0% AND A MINIMUM 0.5%

CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE OWNER'S

WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION DEVICES ARE NO LONGER

REPLACE SILT BARRIERS WHEN CONDITIONS WARRANT AND AS DIRECTED BY THE OWNER'S

SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THE INTENT OR ANY PROBLEMS WITH CONTINUITY OF GRADES, THE ENGINEER SHOULD BE CONTACTED IMMEDIATELY PRIOR TO

OF TOPSOIL. ALL SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL

21. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL

CONSTRUCTION TRAILER, LUMBER, ETC. BEING PRESENT ON JOB SITE. IN ADDITION TO THE CONSTRUCTION ENTRANCE, AN ALL WEATHER DRIVE MUST BE IN PLACE AND ACCESSIBLE THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROCESS. THE ALL WEATHER DRIVE SHALL BE NO LESS THAN 20 FEET OF UNOBSTRUCTED WIDTH WITH ADEQUATE TURNING

SUITABILITY OF SURFACE CONDITIONS FOR THE WORK INDICATED. DETERMINATION OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED IS SOLELY THE RESPONSIBILITY OF

27. TOP OF GRATE ELEVATIONS AND LOCATION OF COORDINATES FOR DRAINAGE STRUCTURES SHALL BE SHOWN ON THE PLAN UNLESS OTHERWISE NOTED. THE GRATES SHALL SLOPE

EROSION CONTROL NOTES

- 1. NO VEGETATION IS TO BE DISTURBED EXCEPT AS NECESSARY FOR GRADING AND UTILITY INSTALLATION PURPOSES.
- 2. TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED, AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6". THE SOIL IS TO BE STOCKPILED IN THE LOCATIONS AS DESIGNATED BY THE OWNER.
- 3. ALL GRADED AREAS INCLUDING 3:1 SLOPES ARE TO BE MULCHED AND SEEDED/SODDED WITHIN 7 DAYS OF FINAL GRADING. ANY AREAS LEFT UNDISTURBED FOR 7 DAYS SHALL HAVE ADEQUATE STABILIZATION.
- 4. ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE ENGINEER.
- 5. WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE, IN THE OPINION OF THE ENGINEER, THEY SHALL BE REMOVED.
- 6. NO WORK IS TO BE STARTED UNTIL MANDATORY PRE-CONSTRUCTION MEETING WITH THE CITY OF CARTERSVILLE.
- 7. INSTALL SILT FENCE AROUND THE BASE OF ANY STOCK PILES.
- 8. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA, THE EQUIPMENT MAINTENANCE AND CLEANING AREA, CONTRACTOR'S EMPLOYEE PARKING AREA. AND AREA FOR LOCATING PORTABLE FACILITIES. CONCRETE TRUCK WASHOUT AREA. OFFICE TRAILERS, AND TOILET FACILITIES, CONTRACTOR TO COORDINATE EXACT LOCATION WITH PROJECT ENGINEER AND CITY ENGINEER DURING PRECONSTRUCTION MEETING.
- 9. ALL UNDISTURBED AREAS INCLUDING WETLAND/STREAM BUFFERS, SHALL BE FIELD MARKED AND KEPT FREE OF CONSTRUCTION EQUIPMENT.
- 10. CURRENT VERSIONS OF THE STORM WATER POLLUTION PREVENTION PLAN, NOTICE OF INTENT, AND NOTICE OF COVERAGE SHALL BE KEPT ON SITE AND IS TO BE ACCESSIBLE FOR THE DURATION OF THE PROJECT.
- 11. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS THAT SHOW SIGNS OF EXCESSIVE EROSION.
- 12. MULCH WITH STRAW AT A RATE OF 100 LBS/1000 S.F. OVER THE SEEDED AREAS.
- 13. EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH GDOT'S EROSION AND SEDIMENT CONTROL HANDBOOK AND GDOT'S CONSTRUCTION ACTIVITY PERMIT REQUIREMENTS. THE DEVICES SHOWN ON THE DRAWINGS ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL DEVICES AS NEEDED.
- 14. CONTRACTOR TO PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT FUELING IN ACCORDANCE WITH CITY OF CARTERSVILLE STANDARDS, RESPECTIVELY. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRECONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTES THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITTEE LOCATION OF AND/OR NOTES REFERRING TO THESE BMP'S SHALL BE SHOWN ON THE EPSC PLAN.
- 15. THE SITE SHALL BE STABILIZED WITHIN 14 DAYS AFTER CONSTRUCTION HAS TEMPORARILY/PERMANENTLY CEASED.
- 16. VEGETATION AND EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT ARE AFFECTED BY CONSTRUCTION SHALL BE REPAIRED OR REPLACED WITHIN 7 DAYS.

UTILITY NOTES

- ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS 1. OF LOCAL UTILITY COMPANY PROVIDER.
- 2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND INVERTS OF ALL EXISTING UTILITY LINES AND STRUCTURES (INCLUDING STORM DRAINAGE PIPES OR STRUCTURES) BEFORE THE COMMENCEMENT OF CONSTRUCTION.
- 3. THE PARKING LOT SHALL BE CONSTRUCTED TO SUBGRADE. ALL PROPOSED FILLS SHALL BE INSTALLED AND COMPACTED PRIOR TO CONSTRUCTION OF SANITARY SEWERS.
- SEWER SERVICE LINE CLEAN-OUT ASSEMBLY SHALL BE INSTALLED ACCORDING TO THE SPECIFICATIONS OF LOCAL UTILITY COMPANY PROVIDER.
- 5. ALL PUBLIC AND PRIVATE WATER MAINS SHALL COMPLY WITH NFPA 13 AND 24 UNLESS LOCAL JURISDICTION STATES OTHERWISE.
- 6. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ANY APPLICABLE FEES.
- 7. IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. IF ENGINEER IS NOT NOTIFIED, THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE COST OF ANY REVISION.
- 8. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE, AND COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
- 9. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THE USE OF EQUIPMENT IN AND AROUND OVERHEAD AND UNDERGROUND ELECTRICAL WIRES AND SERVICES. IF AT ANY TIME IN THE PURSUIT OF THIS WORK THE CONTRACTOR MUST WORK IN THE CLOSE PROXIMITY OF THE ABOVE NOTED WIRES, THE ELECTRIC COMPANY SHALL BE CONTRACTED PRIOR TO SUCH WORK AND THE PROPER SAFETY MEASURES IN THE PROJECT AREA SHOULD BE MADE BY THE CONTRACTOR PRIOR TO THE INITIATION OF CONSTRUCTION.
- 10. THE OWNER AND ENGINEER DO NOT ASSUME RESPONSIBILITY FOR THE POSSIBILITY THAT. DURING CONSTRUCTION, UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED OR THAT ACTUAL LOCATION OF THOSE SHOWN MAY BE DIFFERENT FROM LOCATIONS DESIGNATED ON THE CONTRACT DRAWINGS. IN AREAS WHERE IT IS NECESSARY THAT EXACT LOCATIONS BE KNOWN OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, FURNISH ALL LABOR AND TOOLS NECESSARY TO EITHER VERIFY AND SUBSTANTIATE OR DEFINITELY ESTABLISH THE POSITION OF UNDERGROUND UTILITY LINES.
- 11. MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE BETWEEN ALL SANITARY SEWER AND WATERLINE CROSSINGS, UNLESS LOCAL UTILITY JURISDICTION SPECS STATES OTHERWISE.

SURVEY NOTES

1. SURVEYOR'S LIABILITY FOR THE DOCUMENT SHALL BE LIMITED TO THE ORIGINAL PURCHASER AND DOES NOT EXTEND TO ANY UNNAMED PERSON OR ENTITIES WITHOUT AN EXPRESSED RE-CERTIFICATION BY WHOSE SIGNATURE APPEARS ON THIS SURVEY.

2. ALL DISTANCES WERE MEASURED WITH E.D.M EQUIPMENT AND HAVE BEEN ADJUSTED FOR TEMPERATURE.

3. PRIOR TO ANY CONSTRUCTION, EXCAVATION, OR ANY DISTURBANCE OF THE EXISTING GROUND ELEVATION, THE OWNER AND / OR CONTRACTOR SHOULD ASSUME RESPONSIBILITY OF CONTACTING THE LOCAL UTILITY AUTHORITIES FOR EXACT LOCATION OF UNDERGROUND GAS LINES, TELEPHONE LINES, ELECTRIC CABLES, WATER LINES, ETC. TO AVOID ANY HAZARD OR CONFLICT. IN GEORGIA, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) NOR MORE THAN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR EXCAVATION TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. DIAL 811 FOR ONE CALL CENTER.

4. UTILITIES SHOWN WERE TAKEN FROM FIELD LOCATIONS THAT WERE APPARENT AND COPIED FROM APPROPRIATE GOVERNMENT AGENCIES MAPS AND ARE APPROXIMATE AT BEST. THERE MAY BE UTILITIES, THE EXISTENCE OF WHICH IS UNKNOWN BY THE SURVEYOR.

5. TOPOGRAPHIC INFORMATION WAS DERIVED BY RANDOM SHOTS PER FIELD SURVEY; CONTOUR INTERVAL IS 1'. DATUM BASED ON NAVD83.



LEGEND

	√ <i>RR(O)</i>	IRON ROD (OLD)
	• ^{1.R.(N)}	IRON ROD (SET)
		PROPERTY LINE
		CONTOUR LINE (MAJOR)
	UGE	
	UH	
	15"ST	SANITARY SEWER LINE
		WATER LINE
	\otimes ER	ELECTRIC RISER
	⊡ EBOX	ELECTRIC METER / VAULT
	Ø	UTILITY POLE
	\wedge	GUY WIRE
		TRAFFIC SIGNAL BOX
	S	SANITARY SEWER MANHOLE
	SM	STORM SEWER MANHOLE
		CURB INLET/CATCH BASIN
	0)	
	W X	
		SIGN POST
	0	BOLLARD
ABBRE	VIATION5	
Ø BOC	DIAMETER BACK OF CUBB	
BFP	BACKFLOW PREVEN	ITER
BFV CI	BUTTERFLY VALVE	
CL	CENTERLINE	
CO CONC	CLEAN OUT CONCRETE	
CONN	CONNECT	
CU CV	COPPER CHECK VALVE	
DI		
DIP DWCB	DOUBLE WING CAT	CH BASIN
D/W	DRIVEWAY	
ELEC	ELECTRICAL SERVIO	CE
EOP FH	EDGE OF PAVEMEN	Т
GV	GATE VALVE	
HDPE HORZ	HIGH DENSITY POL' HORIZONTAI	YETHYLENE
HWY	HIGHWAY	
ID INT	INSIDE DIAMETER	
MH	MANHOLE	
NTS	NOT TO SCALE	
PG	PAGE	
PP PV	POWER POLE	
PVC	POLYVINYL CHLORI	DE
PVMNT RD	PAVEMENT ROAD	
RET	RETAINER	
RJ R/W	RESTRAINED JOINT RIGHT-OF-WAY	
SD	STORM DRAIN	
SP	SHEET SIGNAL POLE	
SR	STATE ROUTE	
SS SAMH	SANITARY SEWER	IANHOLE
SSTL STA	STAINLESS STEEL	
SWMH	STORMWATER MAN	HOLE
TS&V ⊤∨¤	TAPPING SLEEVE A	ND VALVE
WL	WATER LINE	
WM WTR	WATER METER WATER	



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WITH

FEET INCHES

DEGREE

W/





SCALE: 1" = 30' HORIZ. 1" = 5' VERTICAL











PIPE (1)(2)
PIPE TAMPED IN 6" MAXIMUM LAYERS. (2)
PIPE (2)
ATERIAL - CLASS 1-4 FOR ALL PIPE.
IPE, 75% OF BACKFILL MATERIAL MAY CONTAIN BROKEN NG 6" IN DIAMETER-TAMPED IN 12" MAXIMUM LAYERS.
L PIPE, FREE OF LARGE CLODS, VEGETABLE E AND/OR ANY OTHER OB JECTIONABLE MATTER

А	6" MIN	CLASS [1] FOR ALL RIGID PIPE (1)(2)					
В	VARIES	CLASS [1] FOR ALL RIGID PIPE TAMPED IN 6" MAXIMUM LAYERS. (2)					
С	6"	CLASS [1] FOR ALL RIGID PIPE (2)					
D	6"	CLASS [1] FOR ALL PIPE.					
Е	VARIES	CLASS [1] FOR ALL PIPE					
F	12"	CLASS [1] FOR ALL PIPE- EXCEPT USE CLASS A, GRADE D CRUSHED STONE ACROSS OR ALONG EXISTING PAVEMENT UNLESS OTHERWISE NOTED					
	(1) SEE SPECIFICATION SECTION 31 23 33 FOR SPECIAL FOUNDATION PREPARATION.						











	ONE "U" ENDWALL											
	CLAS	STEEL										
	CUBIC	FEET	TOT	TAL	TIE							
	WALL	FOOT	CU.FT.	CU.YD.	RUUS							
S	LOPES											
	6.6	7.3	13.9	0.52	NONE							
	8.3	9.1	17.4	0.64	NONE							
	9.9 13 0	10.7	20.6	0.76	NUNE 2-3/."DIA x20"							
	13.3	20_0	29.4	1.03	$2 - \frac{3}{4}$ "DIA-x2'0"							
	21.2	26.2	50.4	1.87	2-3/4"DIA.×2'0"							
	30.3	33.2	63.5	2.35	2-3/4"DIA.x2'6"							
	37.3	39.6	76.9	2.85	2- <u>3/</u> 4"DIA.×3'0"							
	44.2	45.9	90.1	3.33	2-¾"DIA.×3′6"							
_	51.1	49.1	100.2	3.71	2-%"DIA.x4'0"							
2		00	17.6	0.65	NONE							
	10.0	3.3 12.8	22.8	0.65	NONE							
	12.5	16.0	28.5	1.06	NONE							
	18.8	24.0	42.8	1.58	2-3/4"DIA.×2'0"							
	26.3	32.3	58.6	2.17	2-3/4"DIA.×2'0"							
	35.1	42.8	77.9	2.89	2-3/4"DIA.×2'0"							
1	45.4	54.5	99.9	3.70	2-% "DIA.x2'6"							
	56.9 CC 7	66.5 70 E	123.4	4.57	2-94"DIA.X3'0"							
1	810	19.0	140.2	5.41	2-74 DIA.X3 6 2-3/."DIA V4'0"							
5	LOPES	0110	100.3	0.23	6 /4 UIROAT V							
	8.4	II.8	20.2	0.75	NONE							
	II . 2	15.5	26.6	0.98	NONE							
	14.3	19.6	33.9	1.26	NONE							
	22.0	29.8	51.8	1.92	2-%4"DIA.x2'0"							
	31.3	40.7	12.0	2.67	2-74"DIA.X2'0"							
,	42.0 55 4	54.1 69.2	124 6	J.30 4 61	2-74 DIA.XZ 0 2-3/2"DIA v2"6"							
	70.0	84.8	154.8	5.73	2-3/2"DIA.x3'0"							
1	86.4	101.9	188.3	6.97	2-¾"DIA.x3'6"							
1	104.7	120.5	225.2	8.34	2-3/4"DIA.×4'0"							

DIMENSIONS							ONE E	ENDWAL	QUANT L WI	FITIE TH 45	S °WING WALLS
OPENING WALL				FOOTING		CLASS "B" CONCRETE			ETE	STEFI	
n	AREA	u	C	ĩ	M	E	CUBIC	FEET	T0 ⁻	TAL	TIE
U	SQ.FT.	п	6		IVI	ſ	WALL	FOOT	CU.FT.	CU.YD.	RODS
					2	I SLOF	'ES				
18"	1.8	2′6"	3'10"	I'2"	"7"	ľ3"	9.3	10.7	20.0	0.74	NONE
24"	3.1	3′0"	4'4"	ľ5"	2′1"	l″4"	13.1	14.4	27.5	1.02	2-3/4"DIA.×2'0"
30"	4.9	3′6"	4'10"	1'9"	2′5"	I'6"	17.4	18.8	36.7	1.34	2-3/4"DIA.×2'0'
36"	7.I	4'0"	5′4"	2′0"	2′11"	ľ8"	22.6	24.6	47.2	1.75	2-3/4"DIA.×3'0'
42"	9.6	4′6"	5′10"	2′3"	3′6"	2'0"	29.1	34.6	63.7	2.36	2-3/4"DIA.×3'0'
48"	12.6	5′0"	6′4"	2′6"	4′0"	2′0"	35.9	39.1	75.0	2.78	2-¾"DIA.×3′0'
54"	16.0	5′6"	6'10"	2′9"	4′6′/4"	2′0"	42.9	46.6	89.5	3.31	2-3⁄4"DIA.×3′0'
60"	19.6	6'0"	7′4"	3′0"	5′0 ^I /2"	2'0"	51.8	51.1	102.9	3.81	2-¾"DIA.×3′0'
					3	I SLOF	'ES				
18"	1.8	2′6"	3'10"	1'2"	1′9"	ľ3"	10.7	14.5	25.2	0.93	NONE
24"	3.1	3′0"	4′4"	ľ5"	2′10"	l′4"	16.6	17.8	34.4	I.27	2-1/4"DIA.×2'0'
30"	4.9	3′6"	4'10"	1'9"	3′6"	l'6"	22.9	24.4	47.3	I. 7I	2-3/4"DIA.×2'0'
36"	7.1	4'0"	5′4"	2′I"	4′3"	ľ8"	30.2	32.0	62.2	2.30	2-3⁄4"DIA.×3'0'
42"	9.6	4'6"	5'10"	2′5"	4′∏"	2′0"	38.8	44.0	82.8	3.07	2-3⁄4"DIA.×3′0'
48"	12.6	5′0"	6′4"	2′8"	5′6"	2′0"	47.5	48.6	96.1	3.56	2-3⁄4"DIA.×3′0'
54"	16.0	5′6"	6′10"	3′2"	6′1"	2′0"	57.0	53.4	110.4	4.09	2-1/4"DIA.×3'0'
60"	19.6	6'0"	7′4"	3′6"	6′9"	2′0"	68.5	59.1	127.6	4.73	2-3/4"DIA.×3'0

ABARBER 7\37697\3769701\04_CAD\CIVL\PHASE 2\PLOT\C5.01-C5.0X 7\31/2023

BER 97\3769701\04_CAD\CIVL\PHASE 2\PLOT\C5.01-C5.0X.dv 023

ER:AABARBEF E:f:\37\37697\3; /ED·7/31/2023

ARBER 7697\3769701\04_CAD\CIVL\PHASE 2\PLOT\C5.01-C5.0X.dwg |/2023

EK:ABARD E:f:\37\37697 VED:7/31/202

- 2. USE LISTED NUMBER OF RODS AS SHOWN ON TIE ROD CHART (MINIMUM NUMBER SHOWN).
- 3. RODS MUST HAVE A MINIMUM 6" OF THREAD ON EACH END.
- 4. ALL STEEL MUST BE CLEANED AND COATED WITH ROYSTON ROSKOTE, KOPPERS SUPER SERVICE BLACK OR
- 5. ALL NUTS USED ON TIE RODS MUST HAVE A WASHER.

DESIGN CRITERIA:

APPROVED EQUAL.

- 1. FITTING SHOWN IS REPRESENTATIVE FOR ALL FITTINGS, VALVES, DEAD ENDS AND PLUGS.
- 2. FOR WATER MAINS AT A RATED TEST PRESSURE OF 250 PSI.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLANS TERRELL HEIGHTS STORM SEWER IMPROVEMENTS Rowland Harvest Estates Oakland Spring Height CARTERSVILLE, GEORGIA Center Estates **AUGUST 2023**

24 HOUR CONTACT: TERRY JORDAN CELL: (770) 387-5657

Cartersville NTS VICINITY MAP

CHECKLIST # 9

LOCATION MAP

- GPS LOCATION OF CONSTRUCTION EXIT, OR BEGINNING AND END OF LINEAR PROJECT: CONSTRUCTION EXIT: lat 34.157775° lon -84.812279°

CONTACT INFORMATION

PRIMARY PERMITTEE OWNER/DEVELOPER	OPERATOR	DESIGN PROFESSIONAL
OWNER: WADE WILSON, PE CITY OF CARTERSVILLE, PUBLIC WO 330 S. ERWIN STREET CARTERSVILLE, GEORGIA 30120 PHONE:	CONTRACTOR # INFO TO BE DETERMINED RKS	PROJECT ENGINEER DAVID LAVERGNE, P.E. BARGE DESIGN SOLUTIONS, INC. 6525 THE CORNERS PKWY, SUITE 450 PEACHTREE CORNERS, GA 30092 PHONE: (678) 515-9415 GSWCC LEVEL II CERT. <u># 73529</u> EXPIRES <u>03/13/2024</u>

EC5.02 ESPC DETAILS

EC5.03 ESPC DETAILS

- RESIDENTIAL

- 2018.

LIMITS OF DISTURBANCE

SOIL TYPE LINE

PROPOSED GUARD RAIL PROPOSED SIGNAGE

EXISTING STORM LINE

PROPOSED STORM LINE

PROPOSED SILT FENCE

MULCHING APPLICATION REQUIREMENTS

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

SPECIES

RYE AND ANNUAL 0.6 LB.

BROWNTOP MILLET | 1.1 LBS.

RYE (GRAIN)

RYEGRASS

LESPEDEZA

WEEPING

LOVEGRASS SUDANGRASS

Ds1

(WITH MULCH ONLY)

1,000 SQ. FT.

3.9 LBS.

0.9 LB.

0.6 LB.

0.1 LB.

1.0 LB.

TABLE 2 SOME TEMPORARY PLANT SPECIES, SEEDING RATES AND PLANTING DATES

M-L

8/15-11/19

3/1-4/1

4/1-6/1

60 LBS. 5/1-8/1

ACRE

3 BU

0.5 BU

24 LBS

4 LBS.

PLANTING DATES BY REGION

Р

3/1-4/1

40 LBS. 8/15-11/15 9/1-12/15 9/15-1/1

50 LBS. 4/15-6/15 4/15-7/1 4/15-7/1

9/15-12/1 | 10/1-11/1

3/1-4/1 | 2/1-3/1

4/1-6/1 3/1-6/1

5/1-8/1 | 4/1-8/1

TABLE 1								
SUGGESTED 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 WHEAT OR WHERE A POOR STAND EXISTS.

9/15-12/1 10/1-12/15 10/15-1/1 4.1 LBS. 3 BU 1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.

RATES PER RATES PER

2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS. TABLE 3

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPE OF SPECIES	PLANTING YEAR	FERTILIZER RATE (N–P–K) (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 1500 6-12-12 800 10-10-10 400		50-100 50-100 30				
DS2 DISTURBED AREA STABILIZATION								

	SUME PERMANENT PLANT SPECIES, SEEDING RATES, AND PLANTING DATES												
SPECIES	RATES PER ACRE	RATES PER 1.000 SQ. FT.	PLANTII M-I	NG DATES BY	REGION	REMARKS	SUGGE	STED SEEDBED	DEPTHS				
BAHIA, PENSACOLA ALONE OR WITH TEMPORARY COVER WITH	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.	SLOPE	SEEDB	ED DEPTH				
BAHIA, WILMINGTON ALONE OR WITH	60 LBS.	1.4 LBS.	7/15 5/71	7/1 5/71			3:1 OR FLATTER	1" TO 4" DE	PTH				
TEMPORARY COVER WITH OTHER PERENNIALS	30 LBS.	0.7 LB.	3/15-5/31	3/1-5/31	_	SAME AS ABOVE.	2:1 TO 3:1	4" DEPTH					
BERMUDA, COMMON (HULLED SEED) ALONE	10 LBS. 6 LBS.	0.2 LB. 0.1	_	4/1-5/31	3/15-5/31	QUICK COVER; LOW GROWING; SOD FORMING: NEEDS FULL SUN.	2:1 OR STEEPER	HAND-DUG,	IF NECESSAR	Y			
BERMUDA COMMON								LIME IS REAL					
(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.	AGRICULTURAL AGRICULTURAL AGRICULTURAL ODSOUSION	ACRE.	BE WITHIN TH				
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	SPECIFICATION AGRICULTURE. LIME SPREAD	BY CONVENTIO	NAL FOUIPME	MENT OF			
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.	BE "GROUND CALCITIC OR THAT 90% OF	LIMESTONE". GI DOLOMITIC LIME THE MATERIAL	ROUND LIMES STONE GROU WILL PASS	TONE IS ND SO THROUGH			
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.	A 10-MESH 3 PASS THROUG THAN 25% WI SIEVE	SIEVE, NOT LES H A 50-MESH LL PASS THROU	S THAN 50% SIEVE AND 1 JGH A 100-1	WILL NOT LESS MESH			
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.	AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT SHALL BE "FINELY GROUND LIMESTONE". FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE CROUND SO						
UNSCARIFIED	75 LBS.	1.7 LBS.	9/1-2/28	9/1-2/28	9/1-2/28	MIX WITH TALL FESCUE OR WINTER ANNUALS.	THAT 98% OF A 20-MESH S						
SEED-BEARING HAY	3 TONS.	138 LBS.	10/1-2/1	10/1-2/28	9/15-1/15	BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.	PASS THROUG						
						SPREADING GROWTH WITH HEIGHT OF 18"-24"; GOOD IN URBAN AREA;	IABLE 3 FERTILIZER REQUIREMENTS FOR PERMANENT VEGET				TATION		
URGATA 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	SLOW TO DEVELOP GOOD STANDS; MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA TALL FESCUE OR WINTER ANNUALS; DO NOT MIX WITH	TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)		
						WITH EL INOCULANT.	COOL SEASON GRASSES	FIRST SECOND	6-12-12 6-12-12	1500 1000	50-100 		
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.	COOL SEASON GRASSES AND	FIRST SECOND	6-12-12 0-10-10 0-10-10	400 1500 1000 400	30 0-50 		
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.	WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30		
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.	WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	50 		
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.	1. RATES ARE FOR BROA BY ONE-HALF.	ADCASTED SEED	. IF A SEED	DRILL IS USE	D, REDUCE THE RATES		
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.	2. PLS IS AN ABBREVIAT	ION OF PURE	LIVE SEED.				
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.	3. CONTRACTOR SHALL U PLANTING DATES.	JSE COASTAL R	EGION FOR E	DETERMINATION	OF SEED TYPES AND		
SWITCHGRASS	20 LBS.	0.4 LB.	4/1-5/31	4/1-5/31	4/1-5/31	FOR STREAMBANK PLANTINGS, DRAINAGE DITCHES, AND WET AREAS.							

TABLE 1 SOME PERMANENT PLANT SPECIES SEEDING RATES AND PLANTING DATES

Ds3

TARIE 2

SUGGESTED SEEDBED DEPTHS				
.Е	SEEDBED DEPTH			
LATTER	1" TO 4" DEPTH			
:1	4" DEPTH			
TEEPER	DEPRESSIONS EVERY 6" TO 8" HAND-DUG, IF NECESSARY			

DISTURBED_AREA STABILIZATION (WITH PERMANENT VEGETATION)

	6525 The Corners Pkwy // Suite 450 // Peachtree Corners, Georgia 30092 PHONE (678) 515-9411			
+ No. PEO40216 + NO. PEO40216 PROFESSIONAL B/21/2029 - TLIONGINEER N. LAVER				
ESPC DETAILS	TERRELL HEIGHTS STORM SEWER IMPROVEMENTS PHASE 2 CARTERSVILLE, GEORGIA			
REV. DR. CHK. DATE DESCRIPTION				
E(PROJ	C5.02 . NO. 37697-01			

	BESTER DATADADADADADADADADADADADADADADADADADAD			
* No. PEO40216 * No. PEO40216 PROFESSIONAL B/21/2029 TL: NGINEER N. LAVER				
ESPC DETAILS	STORM SEWER IMPROVEMENTS PHASE 2 CARTERSVILLE, GEORGIA			
REV. DR. CHK. DATE DESCRIPTION				
E(PROJ	C5.03 . NO. 37697-01			