

GENERAL NOTES:

ALL CONSTRUCTION SHALL BE IN CONFORMANCE TO THE CURRENT GARDEN CITY DESIGN STANDARDS, SPECIFICATIONS AND DETAILS OR AS OTHERWISE ISSUED FOR THIS PROJECT. WHERE ANY CONFLICT EXISTS BETWEEN THESE PLANS AND/OR SPECIFICATIONS AND/OR CONSTRUCTION DETAILS AND THE GARDEN CITY STANDARDS, SPECIFICATIONS, DETAILS AND DEVELOPMENT ORDINANCE(S), THE GARDEN CITY STANDARDS SHALL PREVAIL.

1. LAYOUT TO BE CONTROLLED BY EXISTING BENCHMARK.
2. DIMENSIONS TO CURB AND GUTTER ARE TO FACE OF CURB.
3. DIMENSIONS TO WALK ARE TO FACE OF WALK.
4. DIMENSIONS TO BUILDING ARE TO FACE OF BUILDING.
5. DIMENSIONS TO STRIPING IS TO CENTERLINE OF STRIPING.
6. ALL ANGLES ARE 90° UNLESS OTHERWISE NOTED.
7. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
8. BLUE METAL REFLECTIVE SIGN AT LEAST 12" IN WIDTH AND 18" IN LENGTH AND ERRECT AT 7" ABOVE GRADE IN SUCH MANNER SO AS TO BE CLEARLY VISIBLE TO THE PARKING VEHICLE. THE SIGN SHALL HAVE PRINTED IN WHITE LETTERS NOT LESS THAN ONE INCH IN HEIGHT ON THREE SEPARATE LINES AND CENTERED THE FOLLOWING WORDS: "PERMIT PARKING ONLY", "TOW-AWAY ZONE" AND "MAXIMUM FINE \$500.00". SUCH SIGNS SHALL ALSO DISPLAY THE SYMBOL FOR HANDICAP ACCESSIBILITY CENTERED BETWEEN THE SECOND AND THIRD LINES. VAN ACCESSIBLE SPACE SHALL HAVE ADDITIONAL SIGN WITH THE FOLLOWING WORDS: "VAN ACCESSIBLE".
9. TRAFFIC CONTROL DEVICES SHALL BE USED ON ALL WORK ON THIS PROJECT IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION. THE COST TO COMPLY SHALL BE INCLUDED IN THE OVERALL COST OF THE PROJECT.
10. REFERENCE SURVEYS:
 - 10.1. BOUNDARY & TOPOGRAPHIC SURVEY - PREPARED BY YAWN LAND SURVEYS, LLC (12/2018).
 - 10.2. VERTICAL DATUM: NAVD88 HORIZONTAL DATUM: NAD83
 - 10.3. PROJECT IS ON STATE PLANE COORDINATES.
 - 10.4. MAUPIN ENGINEERING, INC. DOES NOT ACCEPT ANY RESPONSIBILITY FOR ACCURACY OF PROVIDED SURVEY INFORMATION.
11. ACCORDING TO THE FLOOD INSURANCE RATE MAPS, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, THIS PROPERTY LIES WITHIN THE AE-11 AND AE-12 FLOOD HAZARD AREAS AS DEPICTED THEREON (COMMUNITY PANEL NO. 13051C0129F, EFFECTIVE DATE: SEPTEMBER 26, 2008, ZONE AE).
12. ONLY ABOVEGROUND, READILY VISIBLE STRUCTURES, UTILITIES AND SURFACE PAINT MARKINGS WERE LOCATED FOR THIS SURVEY. THIS SURVEYOR MAKES NO WARRANTY OR GUARANTEE AS TO THE LOCATION, EXISTENCE, OR NON-EXISTENCE OF ANY BELOWGROUND, NON-VISIBLE UTILITIES OR STRUCTURES. CONTRACTOR SHALL FIELD VERIFY LOCATION, TYPE, SIZE, MATERIAL AND GENERAL CONDITION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
13. ALL GRADED EARTH NOT OTHERWISE STABILIZED WITH BUILDING, PAVEMENT OR VEGETATION SHALL BE GRASSED OR SODDED.
14. OWNER SHALL ACCEPT MAINTENANCE OF THE STORM DRAINAGE SYSTEM, INCLUDING ROOF DRAIN CONNECTIONS, WITHIN THE LIMITS OF THE PROPERTY. GARDEN CITY WILL NOT MAINTAIN THE STORM DRAINAGE SYSTEM WITHIN THE PROPERTY. THIS SITE IS DESIGNED TO DISCHARGE STORM WATER RUNOFF INTO THE APPROVED MASTER DRAINAGE CONVEYANCE AND DETENTION SYSTEM.
15. DITCHES, ALL DRAINAGE STRUCTURES, ORIFICES AND PAVEMENT ELEVATIONS SHALL BE SURVEYED FOR "AS-BUILT" DRAWINGS ALONG WITH THE WATER AND SANITARY SEWER SERVICES.
16. ADJUST EXISTING MANHOLE FRAMES, GRATES AND VALVE BOXES TO GRADE AS NEEDED.
17. ALL STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
18. MATCH EXISTING PAVEMENT GRADE ELEVATIONS WHERE CONNECTING TO EXISTING PAVEMENT.
19. FILL BENEATH BUILDINGS SHALL BE COMPACTED IN ACCORDANCE WITH BUILDING STRUCTURAL SPECIFICATIONS.
20. CONTRACTOR TO FIELD VERIFY DURING CONSTRUCTION ANY EXISTENCE OF SUB-SURFACE DEBRIS OR ORGANIC MATERIAL. ANY SUB-SURFACE DEBRIS OR ORGANIC MATERIAL FOUND SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 2' BELOW GRADED AGGREGATE BASE IN PAVEMENT AREAS AND 2' BELOW BOTTOM OF FOOTINGS FOR BUILDINGS (CONTRACTOR SHALL CONSULT WITH BUILDING STRUCTURAL ENGINEER FOR ANY WORK BENEATH OR ADJACENT TO BUILDING AND/OR ABOVE OR BELOW GRADE STRUCTURES). IF EXCESSIVE DEBRIS OR ORGANIC MATERIAL IS FOUND, ENGINEER SHALL BE CONTACTED FOR INSPECTION. REMOVAL OF INSPECTED MATERIAL SHALL BE DIRECTED BY THE ENGINEER.
21. ALL EROSION AND SEDIMENT CONTROL DEVICES (BMP'S) SHALL BE CONSTRUCTED SIMULTANEOUSLY WITH THE DISTURBANCE OF THE LAND AND SHALL REMAIN FUNCTIONAL AND BE MAINTAINED BY CONTRACTOR UNTIL THE CONTRIBUTING DISTURBED AREAS ARE PERMITTED IN ACCORDANCE WITH THE GOVERNING NPDES GENERAL PERMIT.
22. IF A RIGHT-OF-WAY ENCROACHMENT PERMIT MUST BE OBTAINED, AND IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN SUCH PERMIT.
23. THE GARDEN CITY INSPECTIONS DEPARTMENT RESERVES THE RIGHT TO ACCESS PROPERTY TO INSPECT STORM WATER FACILITIES AT ANY TIME.
24. CHLORINATED, DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORM WATER SYSTEM.
25. TRAFFIC CONTROL AND FLOW SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
26. A MINIMUM SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN ALL INSTALLED OR RELOCATED UTILITIES AND LARGE AND MEDIUM TREES.
27. ANY AND ALL STREET LIGHTING, LANDSCAPE, SIDEWALK AND ACCESSIBILITY REQUIREMENTS TO BE PERFORMED, DESIGNED AND/OR CONSTRUCTED SHALL BE COORDINATED WITH CIVIL ENGINEER.
28. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND/OR MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR THE ROOF DRAIN SYSTEM. COLLECTION AND DISCHARGE SHALL BE COORDINATED WITH CIVIL ENGINEER.
29. SITE CIVIL PLANS SHALL TERMINATE 5' FROM BUILDING FACE UNLESS OTHERWISE NOTED. CONTINUATION OF WATER, SANITARY SEWER AND STORM DRAINAGE LATERALS SHALL BE COORDINATED WITH BUILDING CONTRACTOR IN ACCORDANCE WITH ARCHITECTURAL AND/OR MECHANICAL, ELECTRICAL AND PLUMBING PLANS.
30. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE TO THE APPROPRIATE JURISDICTIONS APPROVED CONSTRUCTION SPECIFICATIONS AND DETAILS.
31. THE OWNER, OWNER'S REPRESENTATIVES, GARDEN CITY AND OTHER REGULATORY AGENCIES SHALL HAVE THE RIGHT TO ACCESS THE SITE AT ANY TIME FOR PURPOSES OF OBSERVING WORK PERFORMED.

32. ALL UTILITIES ARE SHOWN AS APPROXIMATE ON THE PLANS AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR. SOME UTILITIES AND SERVICE LINE LOCATIONS ARE UNKNOWN AND NOT SHOWN ON THE PLANS. THIS DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO PROTECT EXISTING UNDERGROUND FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A VALID UTILITY LOCATE TICKET FROM THE GEORGIA UTILITIES PROTECTION CENTER (811 / 800-282-7411), AND COORDINATION WITH OTHER SUCH LOCAL UTILITIES AS MAY BE REQUIRED.
33. THE CONTRACTOR WILL PROTECT ALL TREES NOTED TO REMAIN WITHIN AND ADJACENT TO THE CONSTRUCTION ZONE. ANY UNAUTHORIZED REMOVAL OF TREES NOTED TO REMAIN WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REESTABLISH TO THE SATISFACTION OF THE ENGINEER.
34. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BORROW MATERIAL NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT. ALL BORROW MATERIAL SHALL BE CLEAN AND FREE OF DEBRIS AND ORGANIC MATERIAL AND SUFFICIENT TO COMPACT TO A MINIMUM BEARING CAPACITY OF 2,500PSF OR AS OTHERWISE SPECIFIED.
35. ALL ITEMS CLEARED OR DEMOLISHED FROM THE SITE, INCLUDING SPOIL MATERIAL TO BE REMOVED FOR OFF-SITE DISPOSAL. ARE THE PROPERTY OF THE CONTRACTOR UNLESS THEY ARE TO BE REUSED ON THE SITE OR OTHERWISE NOTED. NO BURYING OR BURNING OF DEBRIS WILL BE ALLOWED ON THIS SITE.
36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BEST MANAGEMENT PRACTICES (BMP'S) ON THE SITE AT ALL TIMES IN ACCORDANCE WITH THESE PLANS AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA".

WATER AND SEWER SYSTEM NOTES:

1. ALL UTILITY CONSTRUCTION SHALL BE IN CONFORMANCE TO THE CURRENT CITY OF GARDEN CITY DESIGN STANDARDS, SPECIFICATIONS AND DETAILS OR AS OTHERWISE ISSUED FOR THIS PROJECT. WHERE ANY CONFLICT EXISTS BETWEEN THESE PLANS AND/OR SPECIFICATIONS AND/OR CONSTRUCTION DETAILS AND THE CITY OF GARDEN CITY SUBDIVISION DESIGN STANDARDS, SPECIFICATIONS, DETAILS AND DEVELOPMENT ORDINANCE(S), THE CITY OF GARDEN CITY STANDARDS SHALL PREVAIL.
2. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" FROM THE FINISHED GRADE TO THE TOP OF THE MAIN.
3. ALL WATER AND SEWER CROSSINGS SHALL HAVE A MINIMUM OF 18" BETWEEN THE BOTTOM OF THE WATER PIPE AND THE TOP OF THE SANITARY SEWER PIPE.
4. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM CITY OF GARDEN CITY PUBLIC WORKS DEPARTMENT.
5. IN ADDITION TO CONTACTING THE UTILITIES PROTECTION CENTER THE CONTRACTOR SHALL NOTIFY THE LOCAL WATER AND SEWER PERSONNEL THREE DAYS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL FIELD LOCATE AND VERIFY SIZE AND MATERIAL OF EXISTING WATER AND SANITARY SEWER SUPPLY LATERALS AND SUBMIT SUCH INFORMATION, INCLUDING SANITARY SEWER SLOPE AND GENERAL CONDITION TO ENGINEER FOR EVALUATION.
6. NO DAMAGED OR DEFECTIVE PIPE, FITTINGS OR OTHER MATERIALS SHALL BE UTILIZED IN THE CONSTRUCTION. ALL PIPE, FITTINGS AND MATERIAL SHALL BE STORED WHERE THEY WILL BE PROTECTED FROM DAMAGE. THE INTERIOR OF ALL PIPES AND FITTINGS SHALL BE KEPT FREE OF ALL FOREIGN MATERIAL INCLUDING TRASH AND SOIL AT ALL TIMES.
7. WHEN PIPE LAYING IS NOT IN PROGRESS THE OPEN ENDS OF THE PIPE SHALL BE PLUGGED BY APPROVED MEANS SO AS TO PREVENT TRENCH WATER AND SOIL FROM ENTERING THE PIPE. SUBSTANTIAL CONTAMINATION OF WATER MAINS SHALL SUFFICIENT GROUNDS FOR THE OWNER TO REQUIRE THE CONTRACTOR TO REPLACE THE CONTAMINATED PIPE AT THE CONTRACTOR'S EXPENSE.
8. **FLUSHING AND DISINFECTION OF WATER MAINS:**

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY DISINFECTION AND FLUSHING OF WATER MAINS. THE DISCHARGE OF THE "SUPER CHLORINATED WATER" (SCW) SHALL BE TO THE SANITARY SEWER SYSTEM AND DILUTED SO AS TO NOT IMPACT THE DOWNSTEAM SYSTEM OR TREATMENT PROCESS. IF DILUTION AND DISCHARGE IS DEEMED IMPRACTICAL OR DAMAGING TO THE DOWNSTEAM SYSTEM THE SCW MUST BE RECOVERED AND DISPOSED OF OFF SITE IN A LEGAL MANNER. THE SCW MAY NOT BE RELEASED TO THE SURFACE WATER SYSTEM.

THE FLUSHING WATER MAY BE DISCHARGED INTO THE SANITARY SEWER SYSTEM AFTER BEING FILTERED OF SEDIMENT AND SOLIDS UNDER THE SUPERVISION OF THE CITY OF GARDEN CITY PUBLIC WORKS DEPARTMENT, OR RETAINED AND PERKED ON SITE. WETLAND OR VEGETATED AREAS SHALL NOT BE USED FOR ON SITE RETENTION OF FLUSH WATER. FLUSH WATER MAY NOT BE RELEASED TO THE SURFACE WATER SYSTEM.

- A. PIPE, FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE UNLOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC. THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPE, FITTINGS AND OTHER ACCESSORIES SHALL BE KEPT FREE FROM DIRT AND FOREIGN MATTER AT ALL TIMES.
- B. ANY DEFECTIVE, DAMAGED, OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, OR APPROVED EQUAL, WILL BE USED TO FORM A WATER TIGHT SEAL AT BOOTH ENDS OF THE LINE BEING LAID AND NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE.
- C. CLEAN THE INTERIORS OF ALL PIPE BY BRUSHING, SWABBING OR WASHING OUT ALL DIRT BEFORE LAYING.
- D. FLUSH THE NEW PIPE LINES UNTIL THE WATER RUNS CLEAR AT THE END OF ALL MAINS AND LATERALS. THIS SHOULD BE DONE AFTER THE PRESSURE TEST AND BEFORE DISINFECTION. SPECIFY MINIMUM FLUSH TIME AND VELOCITY (2.5 FEET PER SECOND) WHICH ARE NECESSARY TO PURGE LINE OF ANY FOREIGN MATERIAL. LINES SHALL BE FLUSHED FOR A MINIMUM OF 30 MINUTES AT A MINIMUM OF 2.5 FEET PER SECOND.
11. THE CITY OF GARDEN CITY PUBLIC WORKS DEPARTMENT WILL OVERSEE THE WET TAP TO THE MAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL ASPECTS OF THE WATER SERVICE INCLUDING THE TAP AND THE SEGMENT FROM THE TAP TO THE METER.
12. AN APPROVED FIRE PROTECTION SOURCE, EITHER TEMPORARY OR PERMANENT, SHALL BE ACTIVE AS SOON AS COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE.
13. ALL MATERIALS THAT COME INTO CONTACT WITH THE DRINKING WATER SHALL NOT ADVERSELY AFFECT THE DRINKING WATER QUALITY AND PUBLIC HEALTH. THESE MATERIALS MUST BE CERTIFIED FOR CONFORMANCE WITH THE ANSI / NSF STANDARD 61.
14. ALL PVC SANITARY SEWER PUBLIC OR PRIVATE SHALL BE SDR 26.

GENERAL DEVELOPMENT NOTES:

1. PIN: 6-0020 -04-004
ADDRESS: 0 2nd Street
GARDEN CITY, GA 31408
2. TOTAL LAND ACREAGE = 1.74(±) AC
TOTAL DISTURBED ACREAGE = 1.74(±) AC ON-SITE
0.39(±) AC OFF-SITE
2.13(±) AC TOTAL
- PRE DEVELOPMENT PERVIOUS AREA = 75,800(±) (100%)
- POST DEVELOPMENT PERVIOUS AREA = 51,000(±) (67%)
IMPERVIOUS AREA = 9,800(±) (13%)
BUILDING COVERAGE AREA = 15,000(±) (20%)
3. EXISTING USE OF PROPERTY : COMMERCIAL VACANT
PROPOSED USE OF PROPERTY : HOTEL
- PRESENT SITE ZONING : C-2A
4. MAXIMUM BUILDING HEIGHT : TBD
5. PROPERTY IS LOCATED IN ZONE AE(9), A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP # 13051C0132F, DATED 08/16/2018.
6. THE SITE IS SERVED BY GARDEN CITY WATER AND SEWER
7. PARKING SPACE CALCULATIONS:
REQUIRED: 70 ROOMS * 1 SPACE / ROOM = 70 SPACES
PROVIDED: 71 SPACES
8. SITE LIGHTING PLAN TO BE PROVIDED SEPARATELY
9. WATER USAGE:
HOTEL(100 GPD/ROOM) X 70 ROOMS = 7,000 GPD
- TOTAL ERU : 23.33

Sleep Inn / Main Stay Specific Development Plan

MEI Proj #822-18-03 Plan Date: 10/25/19

PREPARED FOR:

HOS Management
Anil Patel
1000 Towne Center Blvd. Suite 503
Pooler, GA 31322
912-344-4538
anilpatel@hosmanagement.com



VICINITY MAP



114 WEST 42ND STREET OFFICE PHONE (912) 235 - 2915
SAVANNAH, GA 31401 GENERAL@MAUPINENGINEERING.COM

SHEET INDEX

C0	COVER - NOTES
C1	SURVEY
C2	DEMOLITION PLAN
C3	STAKING / UTILITY PLAN
C4	GRADING PLAN
C5	LANDSCAPING PLAN
C6A	EROSION CONTROL PLAN - INITIAL
C6B	EROSION CONTROL PLAN - INTERMEDIATE
C6C	EROSION CONTROL PLAN -FINAL
D1-D5	DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION

24 HOUR CONTACT
ANIL PATEL
912-344-4538

UTILITIES PROTECTION CENTER

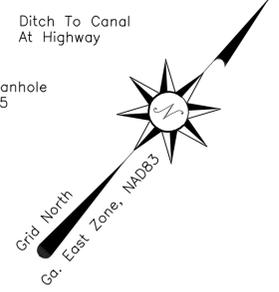
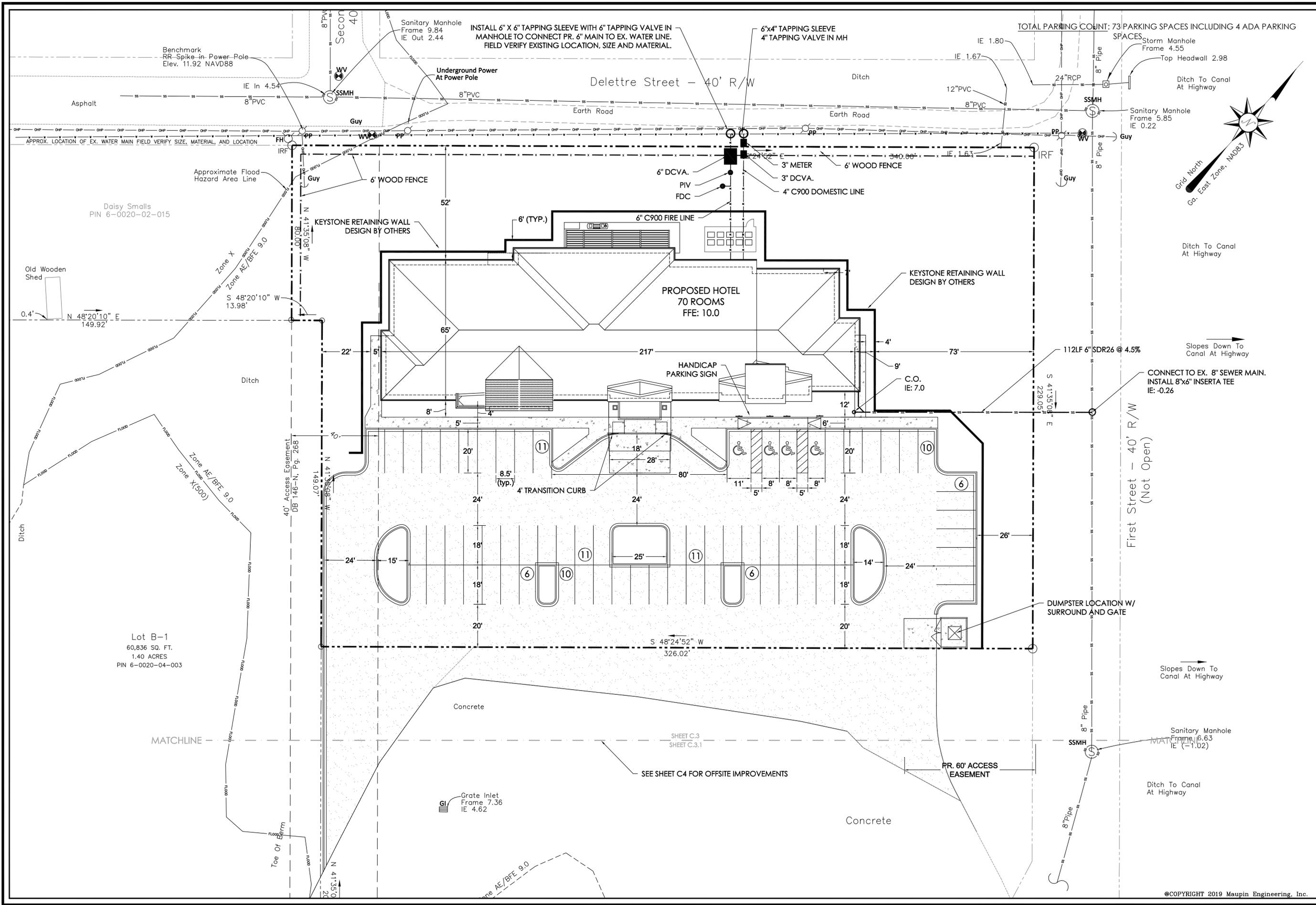


CONTRACTOR IS REQUIRED TO CALL AT LEAST 3 DAYS PRIOR TO START OF CONSTRUCTION



LEVEL II E&S CERT. #21051 EXP: 11/1/2021

THIS SET IS RELEASED FOR PERMITTING 10/25/19



NO.	DATE	DESCRIPTION

MAUPIN
engineering

114 WEST 42ND STREET
SAVANNAH, GA 31401

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STAKING / UTILITY PLAN
Sleep Inn / Main Stay

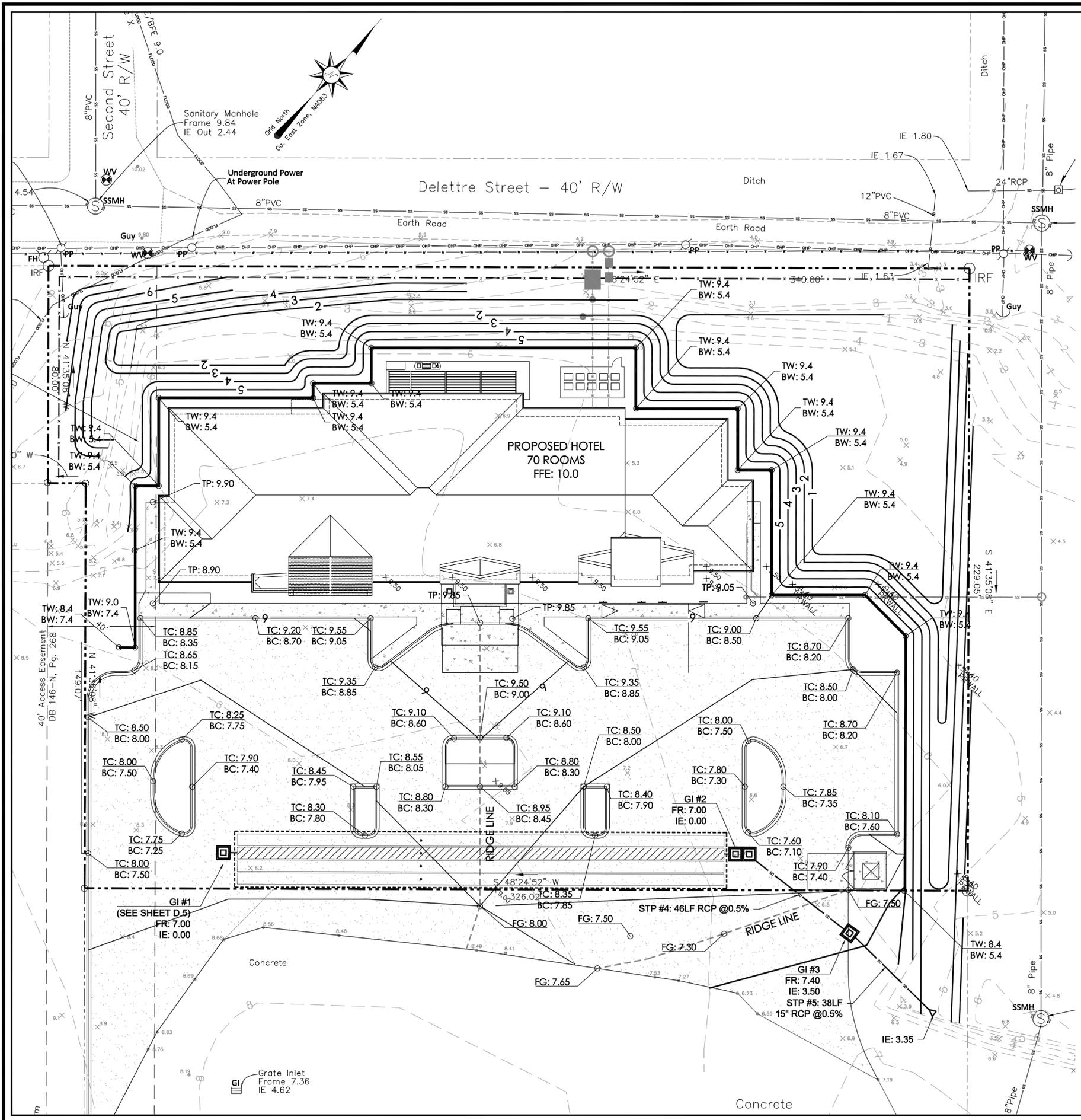


STATUS: **RELEASED FOR PERMITTING**

DRWN: MK 10-25-2019
CHK'D: JAM DATE

SCALE: 1" = 30'

SHEET NO. **C3**
822-18-03



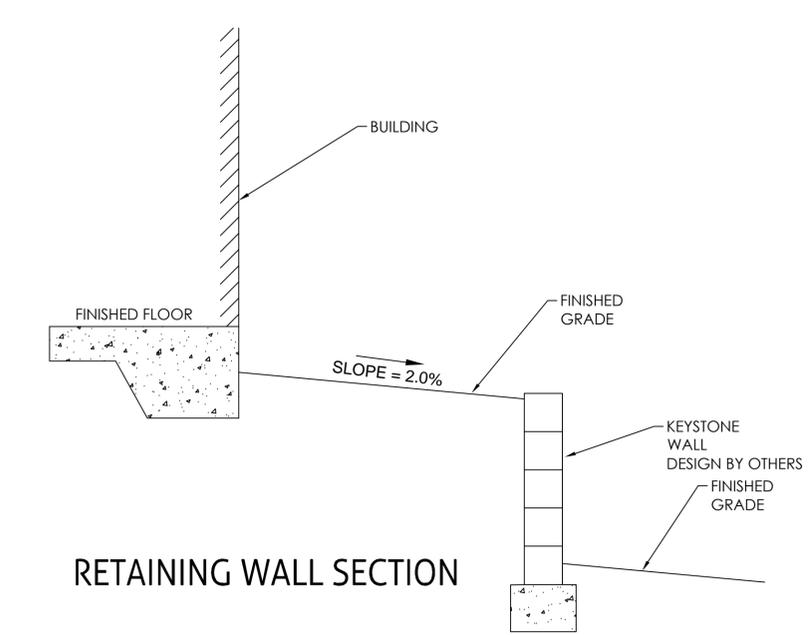
Cut/Fill Report

Generated: 2019-10-25 13:20:18
 By user: Jay Maupin
 Drawing: P:\0_Project Files\822-18-03 Sleep Inn\P\0_Project Files\822-18-03 Sleep Inn\Sleep Inn_100719.dwg

Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Cut-Fill Comparison	fill	1.000	1.000	77438.71	1761.47	2001.78	240.31<-Fill-

Totals	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total	77438.71	1761.47	2001.78	240.31<-Fill-

* Value adjusted by cut or fill factor other than 1.0
 CUT AND FILL ANALYSIS VOLUME = 240cy FILL
 VOID VOLUME OF CHAMBER SYSTEM = 295cy CUT
 Net = 5 CUT



REVISIONS	NO.	DATE	DESCRIPTION

MAUPIN
 engineering

114 WEST 42ND STREET
 SAVANNAH, GA 31401

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 GENERAL@MAUPINENGINEERING.COM

GRADING PLAN

Sleep Inn / Main Stay



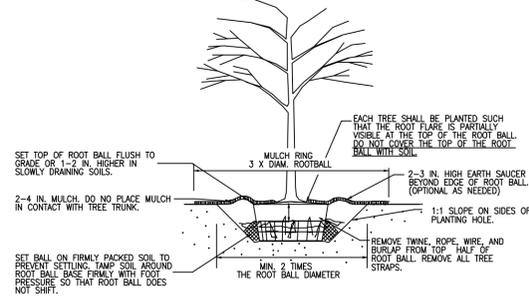
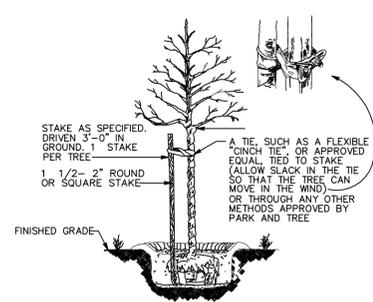
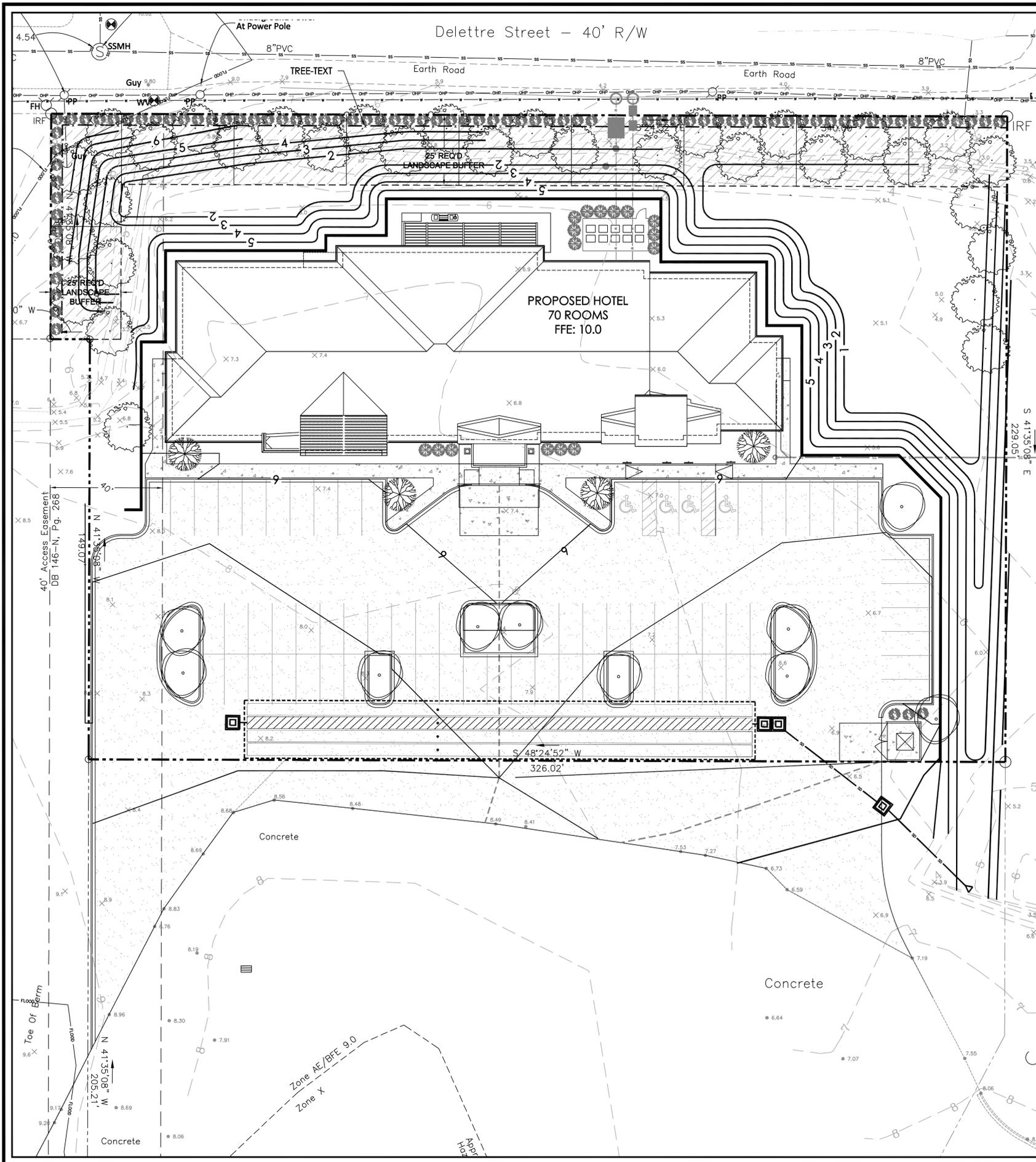
STATUS: **RELEASED FOR PERMITTING**

DRWN: MK 10-25-2019
 CHKD: JAM DATE

SCALE: 1" = 20'

SHEET NO.

C4
 822-18-03



NOTES
 1. STAKE TREES ONLY WHEN NECESSARY. STAKES SHALL BE REMOVED 6 MONTHS AFTER PLANTING.
 2. OTHER ALTERNATE STAKING METHODS MAY BE USED UPON APPROVAL BY PARK AND TREE.

NOTES
 1. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. ALL PRUNING SHALL CONFORM TO ANSI A300 STANDARDS. IMPROPERLY PRUNED TREES MAY BE REJECTED BY THE CITY.
 2. STAKE TREES ONLY WHEN NECESSARY. SEE CITY TREE STAKING DETAILS.

Tree Staking
NTS

Tree Density		
Required Density	16	Units/Acre
Site Area	1.87	Acres
Easement / Buffer Area	0.33	Acres
Site Area for Density Calculation	1.54	Acres
Required Tree Density	24.64	Units
Existing Trees to be Saved	-	Units
Proposed Trees	27.2	Units
Requirement Met		

Tree Planting
NTS

Buffer Requirements		
Buffer Area	9,874	Sf
Shade/Canopy Trees Required	10	Trees (1 / 1,000sf)
Evergreen Understory Trees Req'd	50	Trees (5 / 1,000sf)
Large Evergreen Shrubs Req'd	150	Shrubs (15 / 1,000sf)
Shade/Canopy Trees Provided	--	Trees
Understory Trees Provided	--	Trees
Large Evergreen Shrubs Provided	--	Shrubs
Requirement Met		

TREE SCHEDULE							
ITEM	SCIENTIFIC NAME	COMMON NAME	SIZE	POINTS PER PLANT	SPACING	QTY	UNIT VALUE
CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	3 GAL	--	AS SHOWN	79	--
JM	JASMINUM MESYNYII	PRIMROSE JASMINE	3 GAL	--	AS SHOWN	6	--
IL	LAGERSTROEMIA	CRAPEMYRTLE	15 GALLON	0.5	AS SHOWN	4	2.0
QV	QUERCUS VIRGINANA	LIVE OAK	2" CALIPER	0.6	AS SHOWN	10	6.0
TD	TAXODIUM DISTICHUM	BALD CYPRESS	2" CALIPER	0.6	AS SHOWN	32	19.2
						TOTAL	27.2

REVISIONS	NO.	DATE	DESCRIPTION

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LANDSCAPING PLAN
Sleep Inn / Main Stay



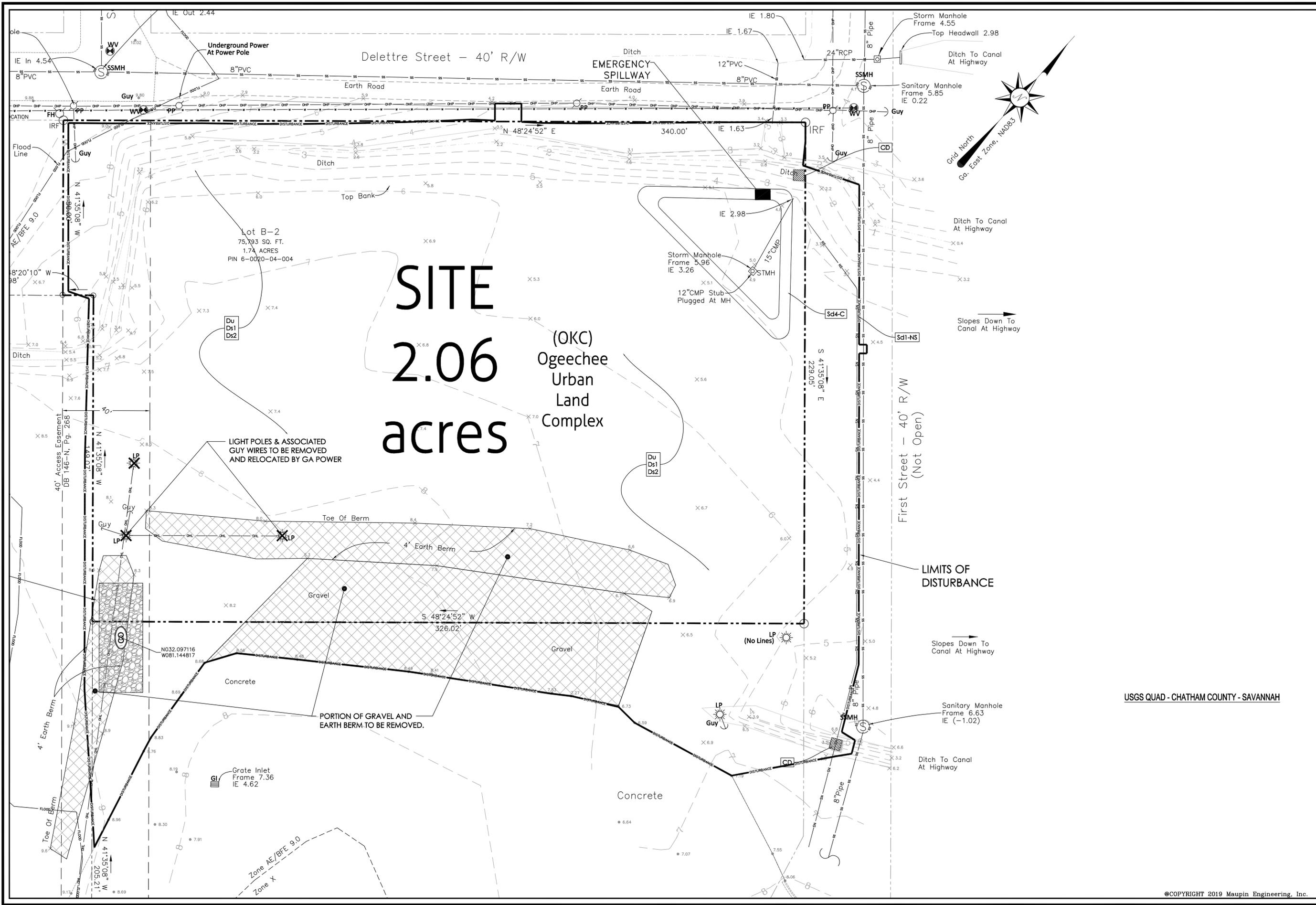
STATUS: **RELEASED FOR PERMITTING**

DRWN: MK 10-25-2019
CHK'D: JAM DATE

SCALE: 1" = 20'

SHEET NO. **C5**
822-18-03

PROJECT NO.



SITE
2.06
acres
 (OKC)
 Ogeechee
 Urban
 Land
 Complex

REVISIONS	NO.	DATE	DESCRIPTION

MAUPIN[™]
 engineering

114 WEST 42ND STREET
 SAVANNAH, GA 31401

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SEDIMENT AND EROSION CONTROL PLAN - INITIAL
 Sleep Inn / Main Stay

LEVEL II E&S

REGISTERED PROFESSIONAL ENGINEER
 No. 23758
 JAY A. MAUPIN

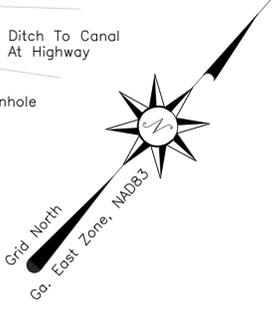
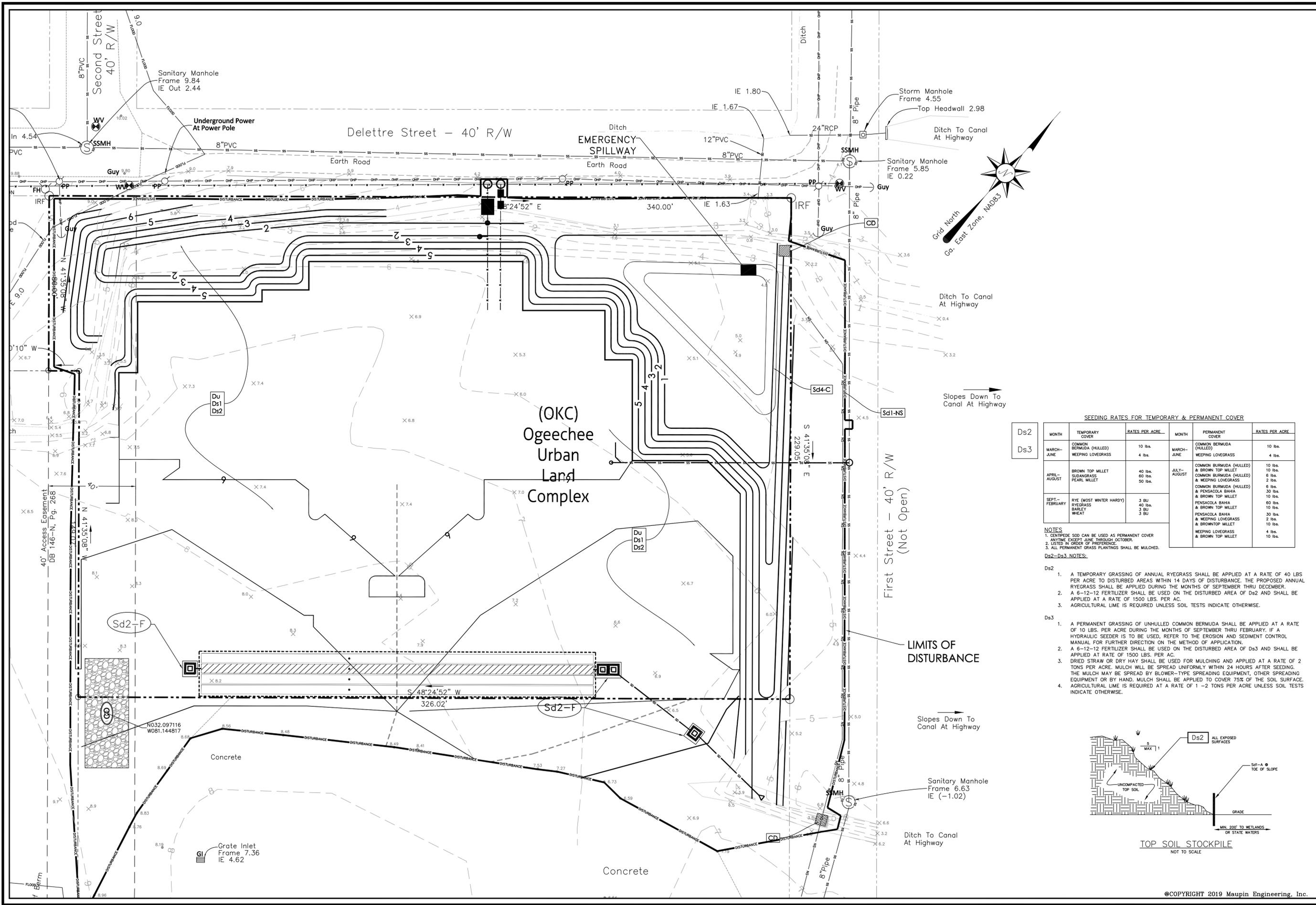
CERT #21051 EXP-11/1/2021
 STATUS: **RELEASED FOR PERMITTING**

DRWN: MK 10-25-2019
 CHK'D: JAM DATE

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 SCALE: 1" = 20'

SHEET NO. **C6a**
 822-18-03

PROJECT NO.



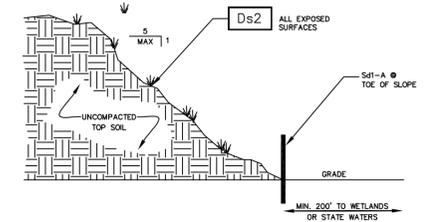
SEEDING RATES FOR TEMPORARY & PERMANENT COVER

Ds2	TEMPORARY COVER		PERMANENT COVER	
	MONTH	RATES PER ACRE	MONTH	RATES PER ACRE
Ds3	MARCH-JUNE	COMMON BERMUDA (HULLED) WEeping LOVEGRASS	MARCH-JUNE	COMMON BERMUDA (HULLED) WEeping LOVEGRASS
	APRIL-AUGUST	BROWN TOP MILLET SUDANGRASS PEARL MILLET	JULY-AUGUST	COMMON BERMUDA (HULLED) & BROWN TOP MILLET COMMON BERMUDA (HULLED) & WEeping LOVEGRASS COMMON BERMUDA (HULLED) & BROWN TOP MILLET
	SEPT-FEBRUARY	RYE (MOST WINTER HARDY) RYEGRASS BARLEY WHEAT		PENSACOLA BAHIA & BROWN TOP MILLET PENSACOLA BAHIA & WEeping LOVEGRASS & BROWN TOP MILLET

- NOTES
- CENTPEDE SOO CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THROUGH OCTOBER.
 - LISTED IN ORDER OF PREFERENCE.
 - ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED.

- Ds2-Ds3 NOTES:
- A TEMPORARY GRASSING OF ANNUAL RYEGRASS SHALL BE APPLIED AT A RATE OF 40 LBS PER ACRE TO DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE. THE PROPOSED ANNUAL RYEGRASS SHALL BE APPLIED DURING THE MONTHS OF SEPTEMBER THRU DECEMBER.
 - A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds2 AND SHALL BE APPLIED AT A RATE OF 1500 LBS. PER AC.
 - AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE.

- A PERMANENT GRASSING OF UNHULLED COMMON BERMUDA SHALL BE APPLIED AT A RATE OF 10 LBS. PER ACRE DURING THE MONTHS OF SEPTEMBER THRU FEBRUARY. IF A HYDRAULIC SEEDER IS TO BE USED, REFER TO THE EROSION AND SEDIMENT CONTROL MANUAL FOR FURTHER DIRECTION ON THE METHOD OF APPLICATION.
- A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds3 AND SHALL BE APPLIED AT RATE OF 1500 LBS. PER AC.
- DRIED STRAW OR DRY HAY SHALL BE USED FOR MULCHING AND APPLIED AT A RATE OF 2 TONS PER ACRE. MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.
- AGRICULTURAL LIME IS REQUIRED AT A RATE OF 1 -2 TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE.



TOP SOIL STOCKPILE
NOT TO SCALE

REVISIONS	NO.	DATE	DESCRIPTION

MAUPINtm
engineering

114 WEST 42ND STREET
SAVANNAH, GA 31401

OFFICE PHONE (912) 235-2915
GENERAL@MAUPINENGINEERING.COM

SEDIMENT AND EROSION CONTROL PLAN - INTERMEDIATE

Sleep Inn / Main Stay



CERT #21051 EXP-11/1/2021
STATUS:

RELEASED FOR PERMITTING

DRWN: MK 10-25-2019

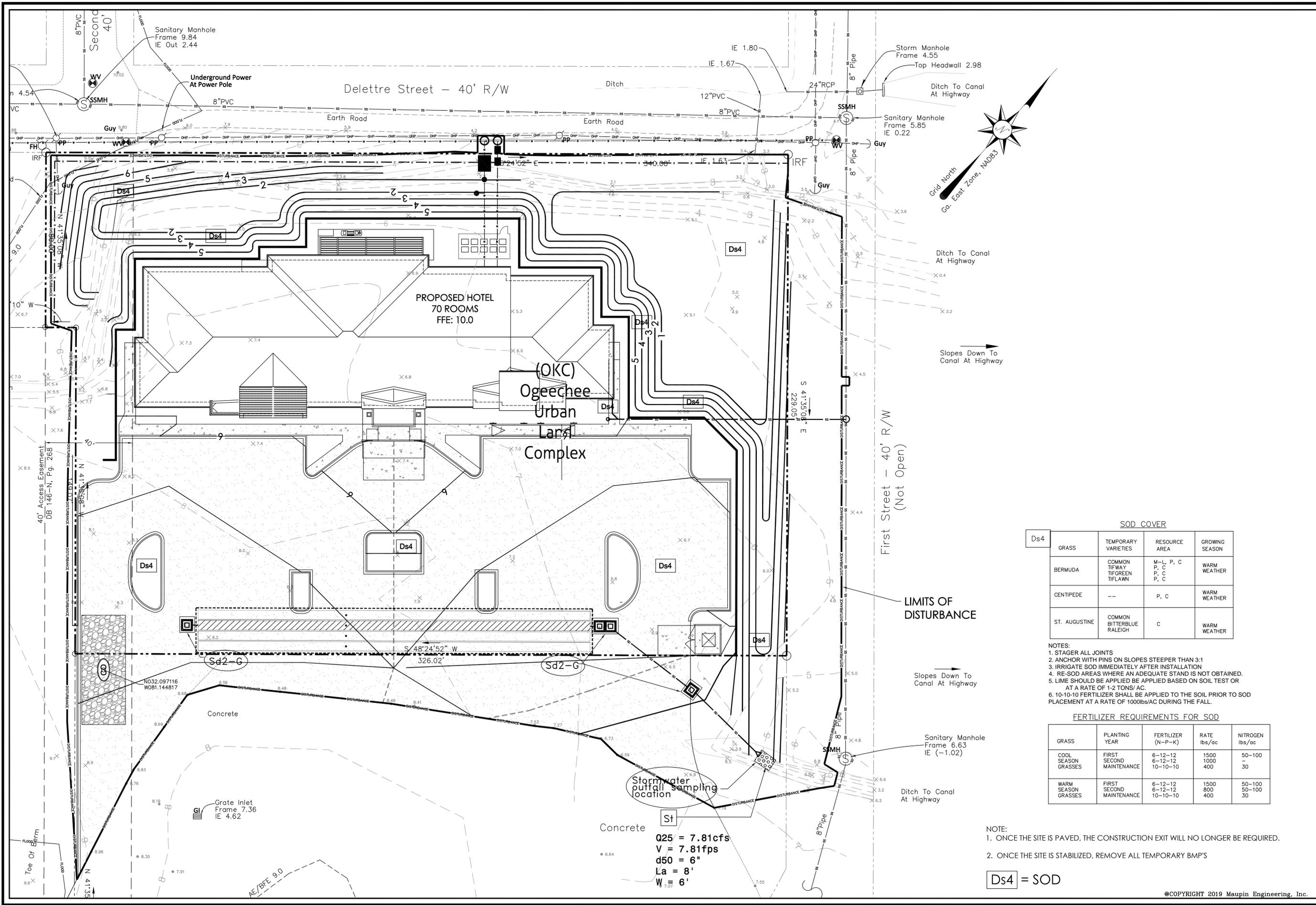
CHKD: JAM DATE

10 0 20
SCALE: 1"=20'

SHEET NO.

C6b
822-18-03

PROJECT NO.



PROPOSED HOTEL
70 ROOMS
FFE: 10.0

(OKC)
Ogeechee
Urban
Lands
Complex

SOD COVER

Ds4	GRASS	TEMPORARY VARIETIES	RESOURCE AREA	GROWING SEASON
	BERMUDA	COMMON TIFWAY TIFGREEN TIFLAWN	M-L, P, C P, C P, C	WARM WEATHER
	CENTIPEDE	--	P, C	WARM WEATHER
	ST. AUGUSTINE	COMMON BITTERBLUE RALEIGH	C	WARM WEATHER

- NOTES:
1. STAGER ALL JOINTS
 2. ANCHOR WITH PINS ON SLOPES STEEPER THAN 3:1
 3. IRRIGATE SOD IMMEDIATELY AFTER INSTALLATION
 4. RE-SOD AREAS WHERE AN ADEQUATE STAND IS NOT OBTAINED.
 5. LIME SHOULD BE APPLIED BE APPLIED BASED ON SOIL TEST OR AT A RATE OF 1-2 TONS/ AC.
 6. 10-10-10 FERTILIZER SHALL BE APPLIED TO THE SOIL PRIOR TO SOD PLACEMENT AT A RATE OF 1000lbs/AC DURING THE FALL.

FERTILIZER REQUIREMENTS FOR SOD

GRASS	PLANTING YEAR	FERTILIZER (N-P-K)	RATE lbs/ac	NITROGEN lbs/ac
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND MAINTENANCE	6-12-12 10-10-10	1000 400	30
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND MAINTENANCE	6-12-12 10-10-10	800 400	50-100 30

Storm water outfall sampling location

Concrete

St

Q25 = 7.81cfs
V = 7.81fps
d50 = 6"
La = 8'
W = 6'

Ds4 = SOD

- NOTE:
1. ONCE THE SITE IS PAVED, THE CONSTRUCTION EXIT WILL NO LONGER BE REQUIRED.
 2. ONCE THE SITE IS STABILIZED, REMOVE ALL TEMPORARY BMP'S

REVISIONS NO.	DATE	DESCRIPTION

MAUPIN[™]
engineering

114 WEST 42ND STREET
SAVANNAH, GA 31401

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SEDIMENT AND EROSION CONTROL PLAN - FINAL
Sleep Inn / Main Stay

LEVEL II E&S

REGISTERED PROFESSIONAL ENGINEER
No. 23758
JAY A. MAUPIN

CERT #21051 EXP-11/1/2021

RELEASED FOR PERMITTING

DRWN: MK 10-25-2019
CHKD: JAM DATE

SCALE: 1" = 30'

SHEET NO.

C7c
822-18-03

PROJECT NO.

ES&PC ITEM# 2 DESIGN PROFESSIONAL'S CREDENTIALS: ENGINEER'S NAME (PRINTED): JAY MAUPIN, PE GEORGIA PE NUMBER: 23758 GSOWC LEVEL II CERTIFICATION NUMBER: 21051 CERTIFICATION NUMBER EXPIRATION DATE: 11/01/2021

4 24 HOUR CONTACT ANIL PATEL 912-344-4538

6 DEVELOPMENT THIS SITE IS BEING DEVELOPED FOR HOTEL USE. THE TOTAL PARCEL AREA IS 1.74(±) ACRES. THE DISTURBED AREA IS 2.13(±) ACRES.

7 CONSTRUCTION EXIT LOCATION N 032.097116; W 081.144817 EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ES&PC) 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.

9 CONSTRUCTION ACTIVITY DESCRIPTION OWNER/DEVELOPER (PRIMARY PERMITTEE) WILL OVERSEE SITE CONSTRUCTION LOCATED ON THE PROPERTY SITUATED IN CITY OF GARDEN CITY, GA 31408. PIN: 6-0020 -04-004 THE DESIGNER WAS NOT KNOWLEDGEABLE OF ANY SECONDARY PERMITTEES AT THE TIME OF PRODUCTION OF THE DRAWINGS.

CONSTRUCTION WILL BEGIN WITH PLACEMENT OF PERIMETER SILT PROTECTION BARRIERS AND CONSTRUCTION ENTRANCES. AFTER THESE EROSION CONTROL BEST MANAGEMENT PRACTICES HAVE BEEN INSTALLED, CLEARING AND GRUBBING OF VEGETATION WILL BEGIN IN AREAS THAT ARE TO BE DISTURBED. THE SITE WILL THEN BE GRADED AND UTILITIES WILL BE TRENCHED. ONCE BROUGHT TO FINAL GRADE, THE ROADS WILL BE PAVED WHILE ALL OTHER EXPOSED AREAS WILL BE STABILIZED WITH VEGETATION, SIDEWALKS, OR STRUCTURES.

STORM WATER RUNOFF FROM THE EAST AND WEST SIDE WILL BE OBTAINED IN THE PROPOSED UNDERGROUND DETENTION POND AND THE NORTH STORM WATER WILL BE DISCHARGED INTO THE UNNAMED DITCH TO THE REAR OF THE SITE WHICH WILL EVENTUALLY FLOW IN TO THE SAVANNAH RIVER.

11 NAME OF RECEIVING WATERS ON-SITE DETENTION ==> UN-NAMED CANAL ==> SAVANNAH RIVER

12 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.

13 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 GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OF THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR00001.

14 THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

15 NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

17 AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

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

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

20 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.

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

24 CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE. BMP'S 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 PETROLEUM-BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS, AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

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

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

- SPILL CLEANUP AND CONTROL PRACTICES LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED AND LOCAL AGENCIES CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED WITH PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

ES&PC ITEM# 26 UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES EXCEPT AS NOTED ON THE PLANS. POLLUTANTS FROM THE SITE WILL BE TREATED BY THE UNDERGROUND SEDIMENT STORAGE.

27 FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, THE CONTRACTOR SHALL PROVIDE COVER (E.G. STORAGE CONTAINER, PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS.

28 POLLUTANTS FROM THE SITE WILL BE TREATED BY THE SEDIMENT POND INSTALLED DURING CONSTRUCTION.

30 INSPECTIONS (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.

(2) MEASURE AND RECORD RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND SEEDING OF TARGET PERENNIALS APPROPRIATE OF 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 PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USE 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 NOTICE OF TERMINATION IS SUBMITTED.

(4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL NOTICE OF TERMINATION IS RECEIVED BY 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 POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(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 PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR 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 ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION 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.

31 SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES TO REFLECT 2019 GAR 100001 PERMIT AS REQUIRED. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

SAMPLE TYPE.

29

TENTATIVE ACTIVITY SCHEDULE table with columns for MONTH 1 through MONTH 11 and rows for CONSTRUCTION EXIT, SILT FENCING AND OTHER E&S PRACTICES, CLEARING AND GRUBBING, GRADING / UTILITY INSTALLATION, DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING), FINE GRADING AND PAVING, BUILDING CONSTRUCTION, DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION), LANDSCAPE INSTALLATION, MAINTAIN ES & PC BMP'S.

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

(1) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. (2) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

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

(4) MANUAL, AUTOMATIC OR RINSING 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 RINSING 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.

(5) 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.

SAMPLING POINTS.

(1) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FROM THE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZON AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).

(D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

(E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F) THE SAMPLES SHOULD BE KEPT FREE OF FLOATING DEBRIS.

(G) PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLUX THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION)

(H) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

SAMPLING FREQUENCY.

(1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR THE QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AS SOON AS THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

(3) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING 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 STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THEIR PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO THE COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE 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 STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE 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 THE BMP'S 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.(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; AND

(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 SAMPLING AT ANY TIME OF DAY OR WEEK.

REPORTING.

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE AMPUNG RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART IV.D.4.A.(2). SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

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

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THE PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

32 RETENTION RECORDS

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI;

- a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD; b. A COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN REQUIRED BY THE PERMIT; c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE PERMIT; d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT; e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT; f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; AND g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

2. 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 THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS 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.

33/34 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 UNITS (NTU) AT THE OUTFALL LOCATION. 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 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 100001. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 2.13 ACRES FOR THE PROJECT SITE. THE SURFACE WATER DRAINAGE AREA OF 0.002 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

45 RUNOFF COEFFICIENT

- WEIGHTED PRE-CONSTRUCTION CN CURVE NUMBER: 74 25-YEAR EVENT RUNOFF ESTIMATE: 11.83 CFS
- WEIGHTED POST-CONSTRUCTION CN CURVE NUMBER: 84 25-YEAR EVENT RUNOFF ESTIMATE: 2.1 CFS

49 SEDIMENT STORAGE CALCULATIONS:

Table with columns: BASIN NUMBER, DISTURBED AREA A, REQUIRED STORAGE VOLUME SVR, (A*67cy), STORAGE METHOD, PROVIDED STORAGE VOLUME SVA, REQUIREMENT MET? YES/NO

REVISIONS table with columns: NO, DATE, DESCRIPTION

MAUPIN engineering logo and contact information: 114 WEST 42ND STREET SAVANNAH, GA 31401 OFFICE PHONE (912) 325-2915 GENERAL@MAUPINENGINEERING.COM

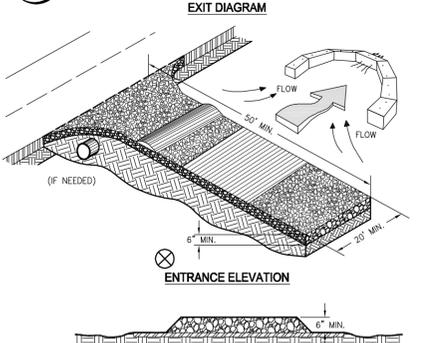
EROSION CONTROL GENERAL NOTES Sleep Inn / Main Stay

LEVEL II E&S REGISTERED PROFESSIONAL ENGINEER JAY A. MAUPIN No. 23758

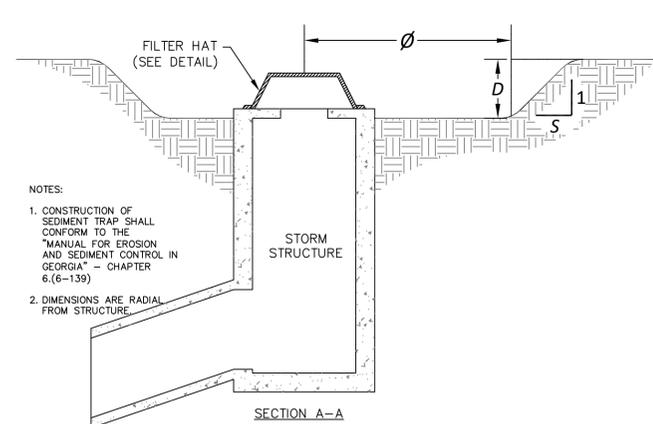
CERT #21051 EXP-11/1/2021 STATUS: RELEASED FOR PERMITTING DRWN: MK 10-25-2019 CHKD: JAM DATE

SHEET NO. D1 822-18-03 NOT TO SCALE PROJECT NO.

Co CRUSHED STONE CONSTRUCTION EXIT



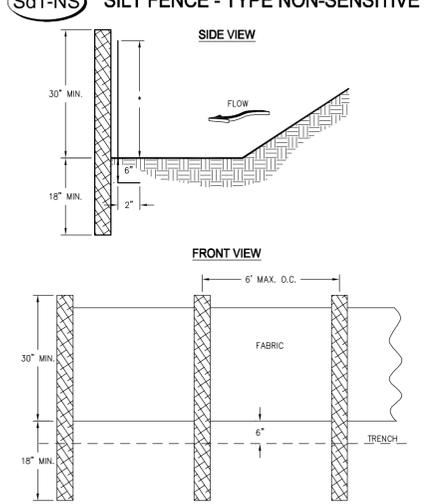
- NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL 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 SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.



Sd2-F TEMPORARY SEDIMENT TRAP
NOT TO SCALE

- NOTES:
1. CONSTRUCTION OF SEDIMENT TRAP SHALL CONFORM TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" - CHAPTER 6.(6-139)
 2. DIMENSIONS ARE RADIAL FROM STRUCTURE.

Sd1-NS SILT FENCE - TYPE NON-SENSITIVE



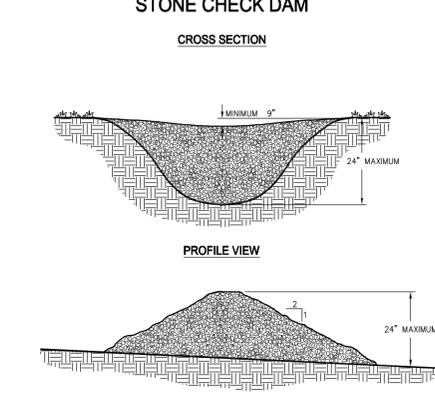
- NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (H) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

MULCHING & STRAWING RATES

MATERIAL	RATE	DEPTH
STRAW OR HAY	-	2" to 4"
WOOD CHIPS, SAWDUST, BARK	-	2" to 3"

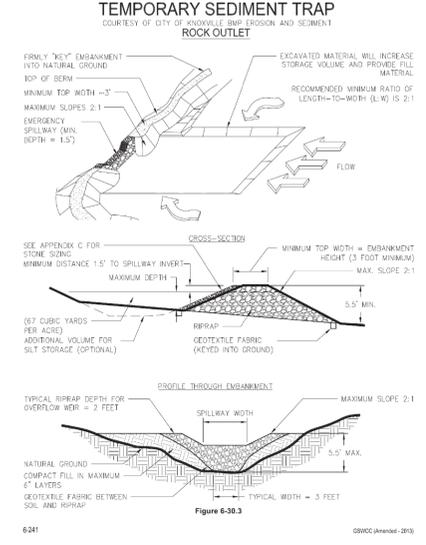
- NOTES:
1. APPLY DRY STRAW HAY OR MULCH UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
 2. PRESS THE STRAW/HAY INTO THE SOIL IMMEDIATELY AFTER APPLICATION.
 3. ANCHOR WOOD USING APPROPRIATE SIZED NETTING.

STONE CHECK DAM

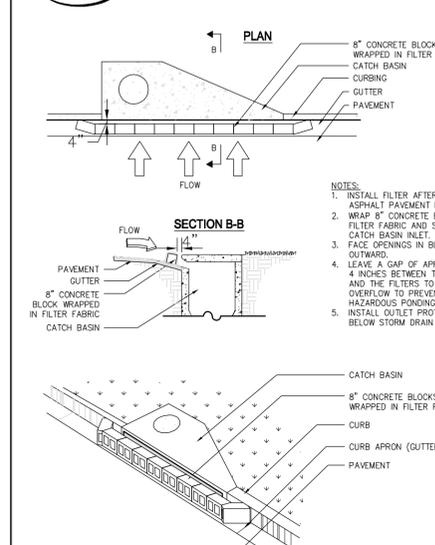


- NOTES:
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
 2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
 3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
 4. THE DAM HEIGHT SHOULD BE A MAXIMUM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

TEMPORARY SEDIMENT TRAP



Sd2-P CURB INLET FILTER "PIGS IN BLANKET"



DUST CONTROL ON DISTURBED AREAS

CONTRACTOR SHALL EMPLOY THE FOLLOWING TEMPORARY METHODS TO LIMIT THE SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES:

*TEMPORARY METHODS:		*PERMANENT METHODS:	
-MULCHES	-SPRAY ON ADHESIVES	-TILLING	-IRRIGATION
-BARRIERS	-CALCIUM CHLORIDE	-TOPSOIL	-STONE COVER

*CHEMICAL CONTROL			
ADHESIVE	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE (GAL/AC)
ANIONIC ASPHALT EMULSION	7:1	SPRAY	1200
LATEX EMULSION	12 1/2:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

REVISIONS NO. DATE DESCRIPTION

MAUPIN[™] engineering

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EROSION CONTROL DETAILS

Sleep Inn / Main Stay

LEVEL II E&S

REGISTERED PROFESSIONAL ENGINEER
No. 23758
JAY A. MAUPIN

CERT #21051 EXP-11/1/2021

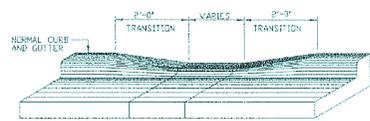
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DRWN: MK 10-25-2019
CHKD: JAM DATE

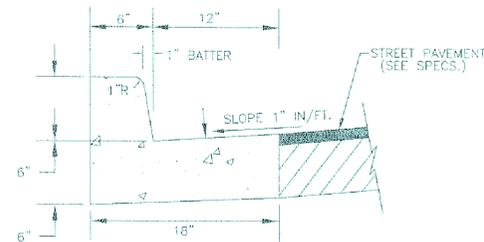
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SHEET NO. **D2**
822-18-03

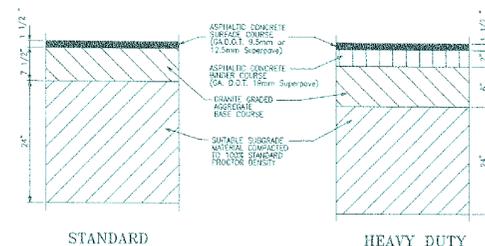
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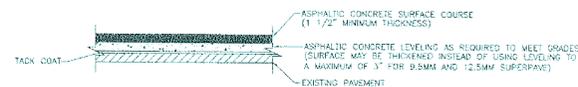
NOTE:
DRIVES ONLY, FOR HANDICAP SEE P-16



NORMAL GUTTER



NOTES:
1. BITUMINOUS PRIME AND TACK COATS WILL BE APPLIED AS LISTED BELOW.
A. PRIME COAT SHALL BE APPLIED AT A RATE OF 0.25 GAL/SQ YD PER SQUARE YARD TO THE SURFACE OF ALL GRANULAR BASE COURSES.
B. TACK COAT SHALL BE APPLIED AT A RATE OF 0.10 GAL/SQ YD PER SQUARE YARD TO THE SURFACE OF THE BINDER COURSE BEFORE PLACEMENT OF SURFACE COURSE.
2. REFER TO PAVING PLAN FOR LOCATION OF STANDARD AND HEAVY DUTY PAVEMENTS.

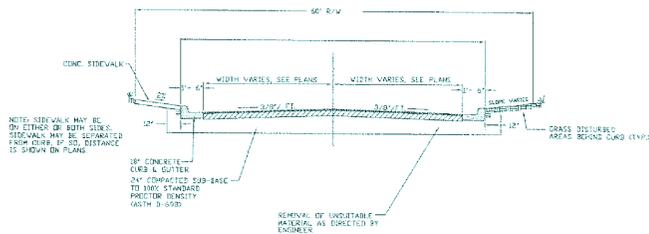


GARDEN CITY DEPRESSED CURB N.T.S. P-01
DATE: APRIL 2007

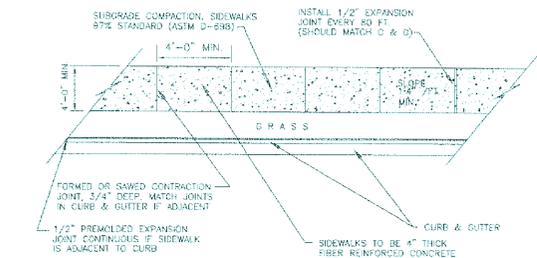
GARDEN CITY 18" CURB & GUTTER N.T.S. P-03
DATE: APRIL 2007

GARDEN CITY TYPICAL PAVEMENT SECTIONS N.T.S. P-10
DATE: APRIL 2007

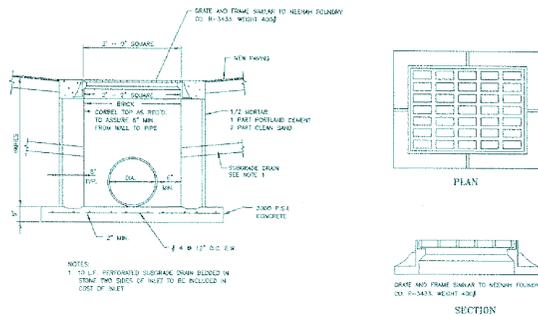
GARDEN CITY OVERLAY PAVEMENT SECTION N.T.S. P-11
DATE: APRIL 2007



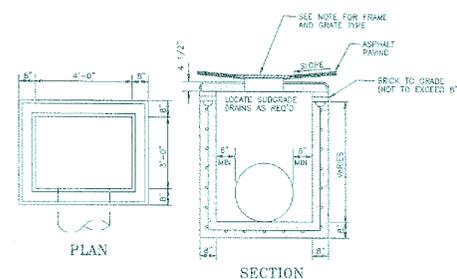
NOTE: SIDEWALK MAY BE ON EITHER OR BOTH SIDES. SIDEWALKS MUST BE SEPARATED FROM CURB BY 50' DISTANCE TO SHOW ON PLAN.
CONCRETE CURB & GUTTER SHALL BE CONSTRUCTED TO 100% STANDARD PROCTOR DENSITY (ASTM D-698).
REMOVAL OF UNDESIRABLE MATERIAL, AS DIRECTED BY ENGINEER.
GRASS DISTURBED AREAS BEHIND CURB (TYP.)



NOTE:
CONTRACTION JOINTS SPACING TO BE THE SAME AS WIDTH OF WALK.



NOTE:
1. 15 L.P. PERFORATED SUBGRADE DRAIN BEHIND IN FRONT THE GRATE OF INLET TO BE INCLUDED IN COST OF INLET.



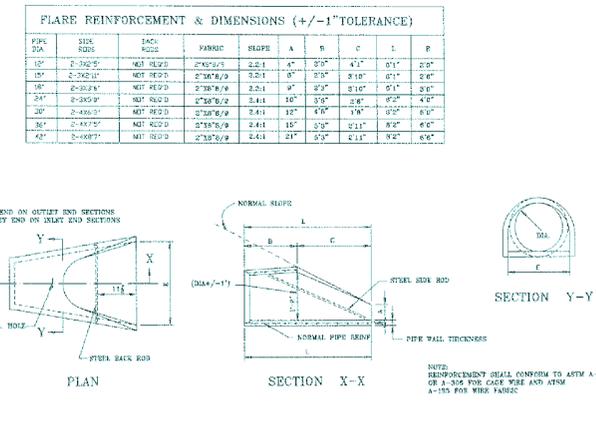
1. GRATE INLET SHALL BE NEMAH POLYURDY R-4721 HEAVY DUTY GRATE W/ R-4699 ANGLE FRAME OR APPROVED EQUAL.
2. REINFORCING SHALL BE #4 BARS @ 8" O.C. EACH WAY.
3. PIPE OPENINGS SHALL BE PROVIDED BY THE MANUFACTURER AS REQUIRED.
4. ALL PIPE CONNECTIONS SHALL BE GROUTED WITH NON-SHRINKING CEMENT.
5. KNOCKOUT BOKES WILL NOT BE ACCEPTED.

GARDEN CITY TYPICAL SECTION THRU ROADWAY N.T.S. P-12
DATE: APRIL 2007

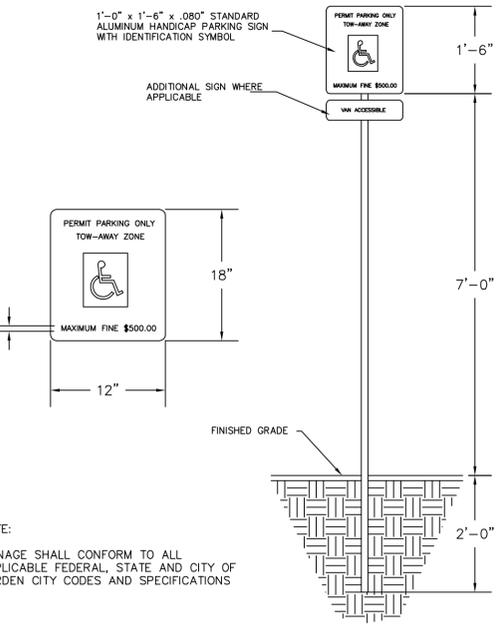
GARDEN CITY SIDEWALK AND WALKWAY DETAILS N.T.S. P-15
DATE: APRIL 2007

GARDEN CITY GRATE INLET W/ FRAME N.T.S. P-20
DATE: APRIL 2007

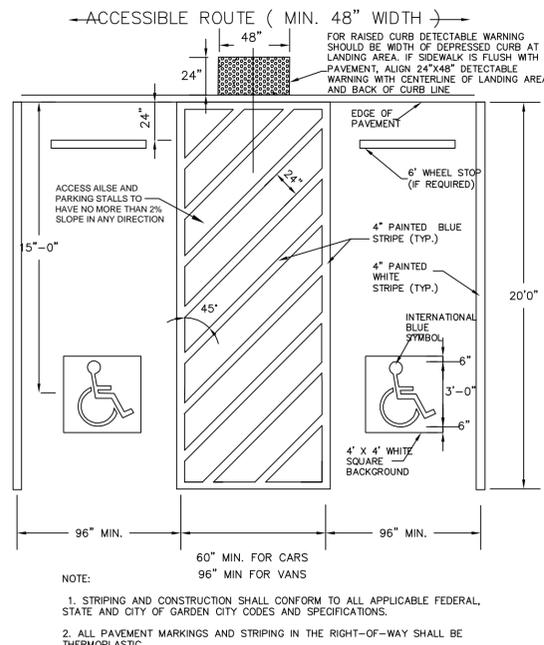
GARDEN CITY PRECAST GRATE INLET DETAIL N.T.S. P-21
DATE: APRIL 2007



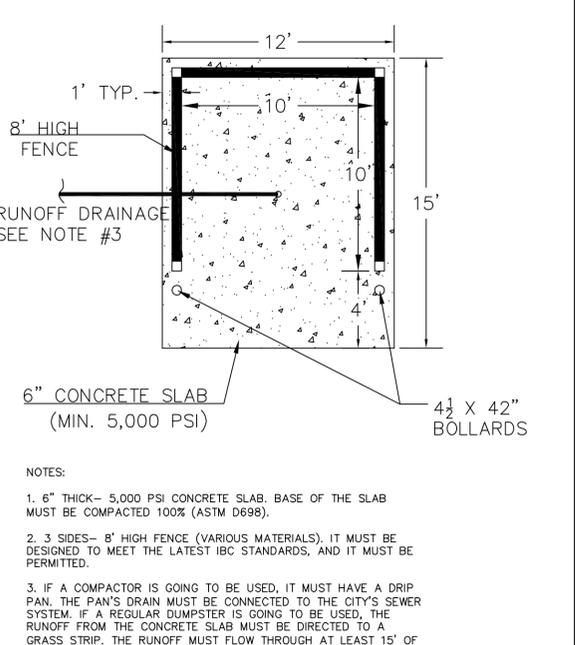
GARDEN CITY FLARED END SECTION DETAIL N.T.S. P-32
DATE: APRIL 2007



NOTE:
SIGNAGE SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND CITY OF GARDEN CITY CODES AND SPECIFICATIONS



NOTE:
1. STRIPING AND CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND CITY OF GARDEN CITY CODES AND SPECIFICATIONS.
2. ALL PAVEMENT MARKINGS AND STRIPING IN THE RIGHT-OF-WAY SHALL BE THERMOPLASTIC.



NOTES:
1. 6" THICK - 5,000 PSI CONCRETE SLAB. BASE OF THE SLAB MUST BE COMPACTED 100% (ASTM D698).
2. 3 SIDES - 8' HIGH FENCE (VARIOUS MATERIALS). IT MUST BE DESIGNED TO MEET THE LATEST IBC STANDARDS, AND IT MUST BE PERMITTED.
3. IF A COMPACTOR IS GOING TO BE USED, IT MUST HAVE A DRIP PAN. THE PAN'S DRAIN MUST BE CONNECTED TO THE CITY'S SEWER SYSTEM. IF A REGULAR DUMPSTER IS GOING TO BE USED, THE RUNOFF FROM THE CONCRETE SLAB MUST BE DIRECTED TO A GRASS STRIP. THE RUNOFF MUST FLOW THROUGH AT LEAST 15' OF GRASS BEFORE IT CAN GO INTO THE CITY'S STORM SYSTEM.

REVISIONS	NO.	DATE	DESCRIPTION

MAUPIN[™]
engineering
114 WEST 42ND STREET
SAVANNAH, GA 31401
OFFICE PHONE (912) 235-2915
GENERAL@MAUPINENGINEERING.COM

PAVEMENT DETAILS
Sleep Inn / Main Stay



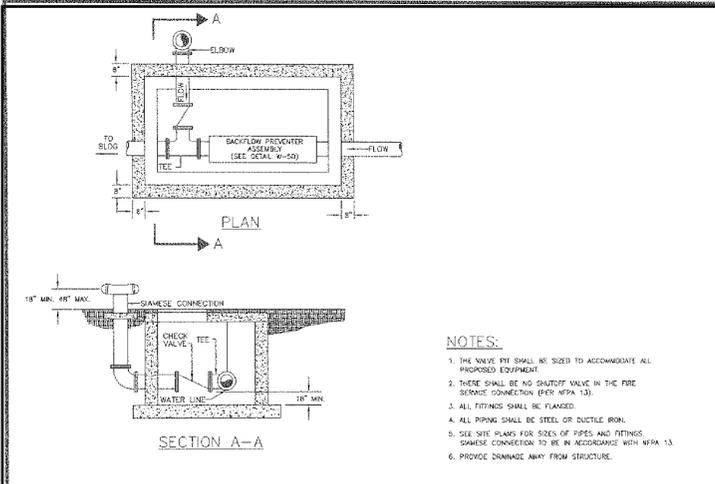
STATUS: **RELEASED FOR PERMITTING**

DRWN: MK 10-25-2019
CHKD: JAM DATE

NOT TO SCALE

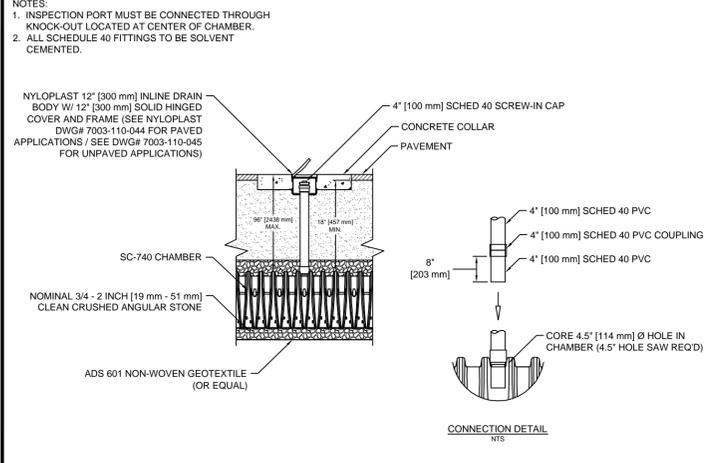
SHEET NO.

D3
822-18-03



- NOTES:**
1. THE VALVE FIT SHALL BE SIZED TO ACCOMMODATE ALL PROPOSED EQUIPMENT.
 2. THERE SHALL BE NO SHUTOFF VALVE IN THE FIRE SERVICE CONNECTION (SEE WPA 13).
 3. ALL FITTINGS SHALL BE FLANGED.
 4. ALL PIPING SHALL BE STEEL OR DUCTILE IRON.
 5. SEE SITE PLANS FOR SIZES OF FITTINGS AND FITTINGS. SERVICE CONNECTION TO BE IN ACCORDANCE WITH WPA 13.
 6. PROVIDE DRAINAGE AWAY FROM STRUCTURE.

GARDEN CITY FIRE SERVICE SYSTEM FOR BUILDINGS
 SCALE: N.T.S.
 DATE: APRIL 2007
 W-36

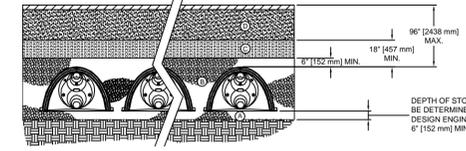


SC-740 INSPECTION PORT DETAIL
 SCALE: NTS
 DATE: 6/15/11
 DRAWN BY: KJL
 CHECKED:

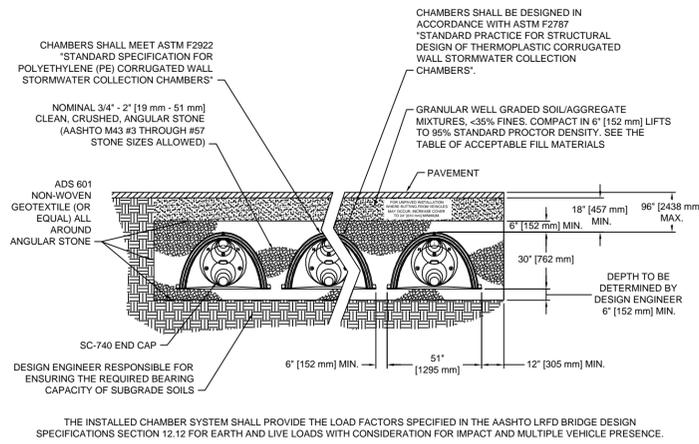
ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 AND SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
① FILL MATERIAL FOR LAYER D STARTS FROM THE TOP OF THE CLAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISH GRADE ABOVE. NOTE THAT PAVEMENT SUB-BASE MAY BE PART OF THIS LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS, CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRONGER MATERIAL AND PREPARATION REQUIREMENTS.
② FILL MATERIAL FOR LAYER C STARTS FROM THE TOP OF THE EMBEDED STONE (B LAYER) TO 18\"/>			

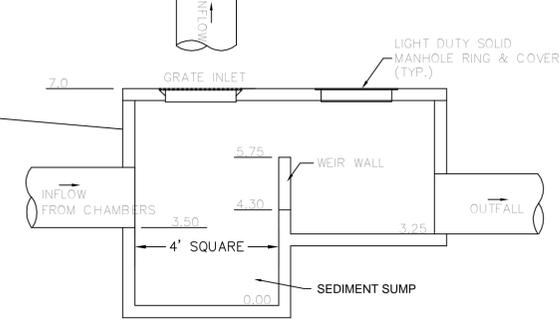
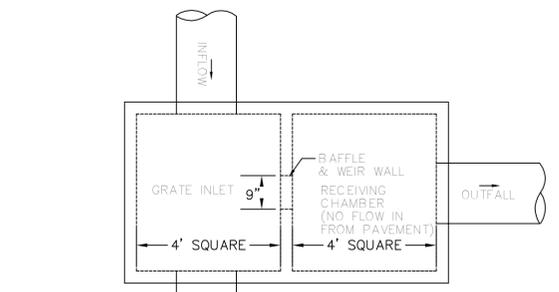
PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR A LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9\"/>



STORMTECH ACCEPTABLE FILL
 SCALE: NTS
 DATE: 3/30/10
 DRAWN BY: KJL
 CHECKED:

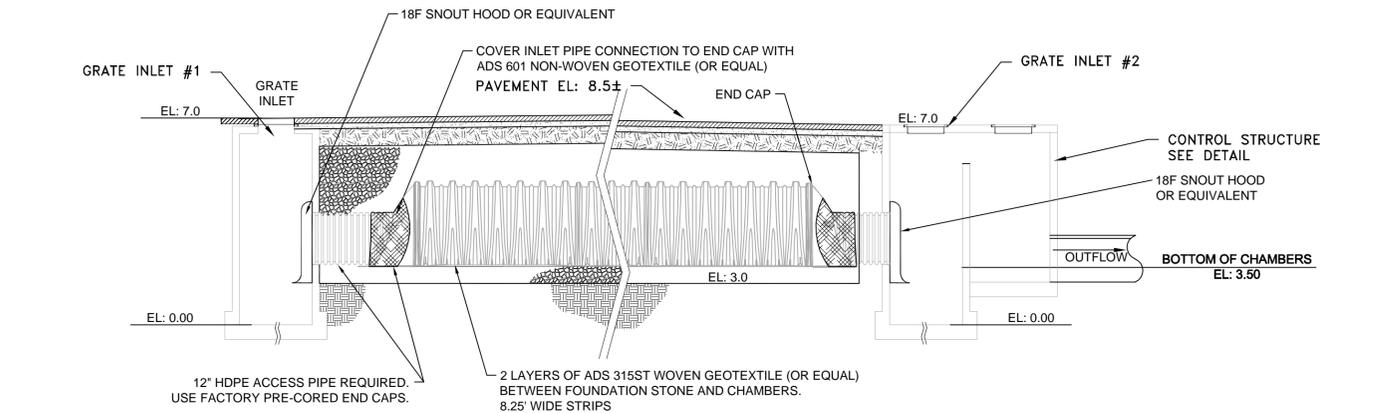


SC-740 TYPICAL CROSS-SECTION
 SCALE: NTS
 DATE: 08-22-12
 DRAWN BY: JLM
 CHECKED:



STORMWATER CONTROL STRUCTURE
 NOT TO SCALE

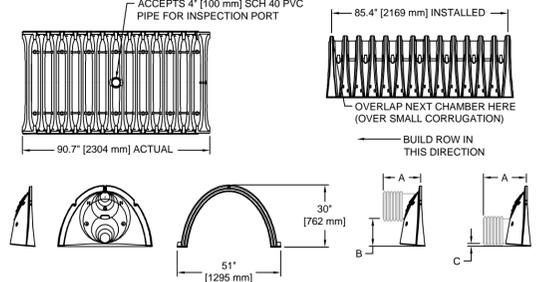
	1-year	5-year	10-year	25-year	50-year	100-year
Q	1.93	4.07	4.91	6.14	6.76	7.31
WSE	5.36	5.98	6.08	6.19	6.23	6.27
V	4,561	5,473	5,592	5,715	5,767	5,814



SC-740 CHAMBER PLAN VIEW
 SCALE: NTS
 DATE: 6/15/11
 DRAWN BY: KJL
 CHECKED:

STORMWATER CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740, SC-310 OR APPROVED EQUAL.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS TESTED USING ASTM STANDARDS.
3. CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.
6. ONLY CHAMBERS THAT ARE APPROVED BY THE ENGINEER WILL BE ALLOWED. THE CONTRACTOR SHALL SUBMIT (3 SETS) OF THE FOLLOWING TO THE ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - a. A STRUCTURAL EVALUATION BY A REGISTERED STRUCTURAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET. THE 50-YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2922 MUST BE USED AS A PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
7. CHAMBERS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
8. ALL DESIGN SPECIFICATIONS FOR CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST DESIGN MANUAL.
9. THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.

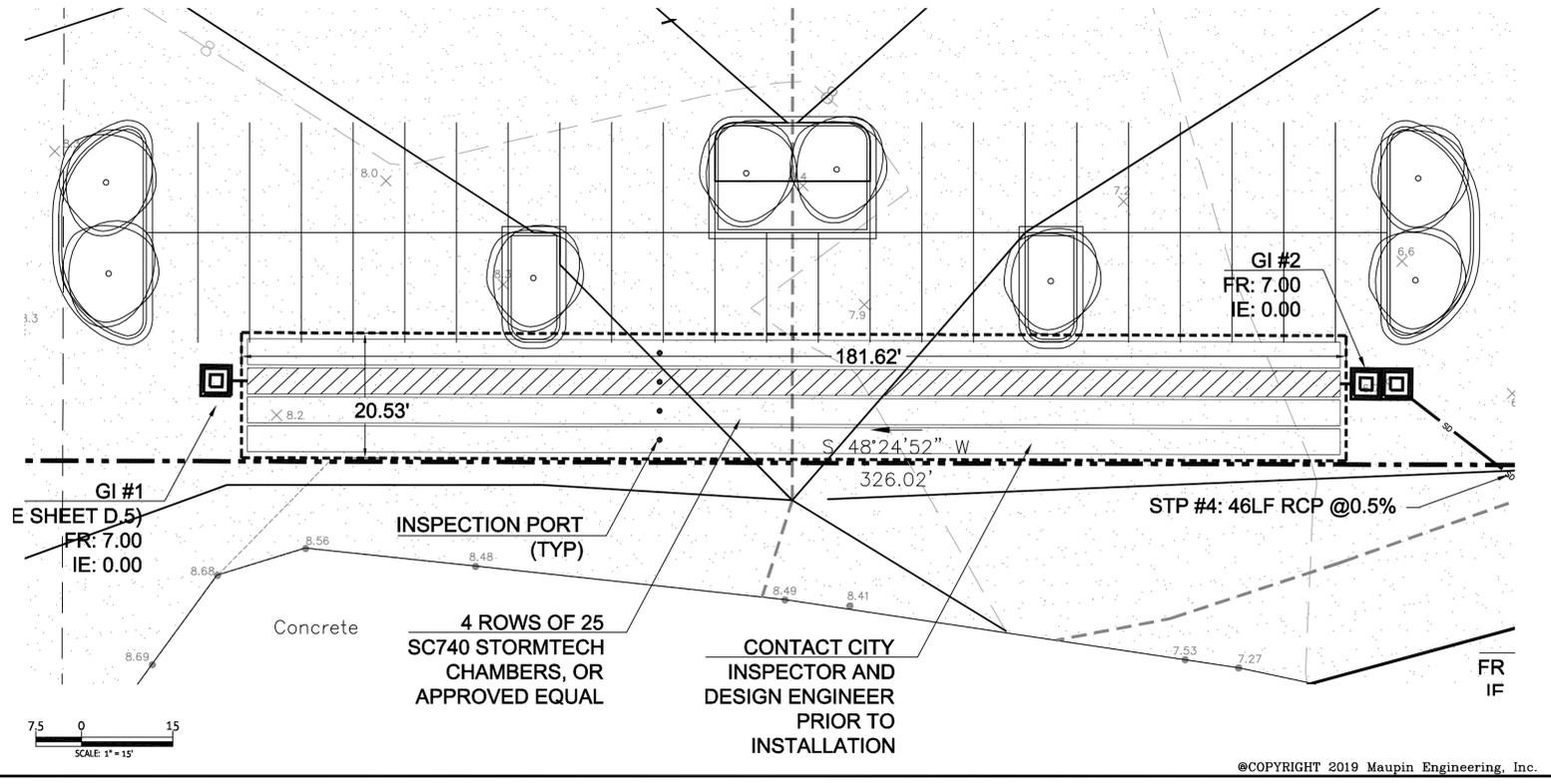


NOMINAL CHAMBER SPECIFICATIONS
 SIZE (W x H x INSTALLED LENGTH)
 CHAMBER STORAGE
 MINIMUM INSTALLED STORAGE
 WEIGHT

PART#	STUB	A	B	C
SC740EPE06T	6\"/>			

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.
 *FOR THE SC740EPE24B THE 24\"/>

STORMWATER CHAMBER SPECIFICATIONS
 SCALE: N/A
 DATE: 6/09/11
 DRAWN BY: KJL
 CHECKED:



STORMWATER CHAMBER SPECIFICATIONS
 SCALE: NTS
 DATE: 3/30/10
 DRAWN BY: KJL
 CHECKED:

MAUPINtm engineering
 114 WEST 42nd STREET
 SAVANNAH, GA 31401
 OFFICE PHONE (912) 235-2915
 GENERAL@MAUPINENGINEERING.COM

SEWER DETAILS
 Sleep Inn / Main Stay

GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 23758
 W. A. MAUPIN

STATUS: RELEASED FOR PERMITTING
 DRWN: MK 10-25-2019
 CHKD: JAM DATE
 NOT TO SCALE
 SHEET NO. D5
 822-18-03
 PROJECT NO.