

# **CONSTRUCTION PLANS FOR: APRON PAVEMENT AND DRAINAGE REHABILITATION - PHASE 2**

# **JACKSON COUNTY AIRPORT (JCA)**

## **GDOT PROJECT NO. TBD** W.K. DICKSON & CO., INC. PROJECT NO. 20190358.00.AT (DESIGN)

## SUMMARY OF QUANTITIES

		T-HANGAR APRON PAVEMENT AND DRAINAGE REHABILITATION (PHASE 2)		
Item No.	Spec. No.	Description	Quantity	Unit
1	FAA C-105	Mobilization	1	LS
2	FAA C-102	Temporary Construction Exit, including installation, maintenance, and removal	1	EA
3	FAA C-102	Temporary Compost Filter Sock, including installation, maintenance, and removal	802	LF
4	FAA C-102	Temporary Storm Drainage Inlet Protection, including installation, maintenance, and removal	2	EA
5	FAA C-102	Temporary Excavated Inlet Sediment Trap Storm Drainage Inlet Protection, including installation, maintenance, and removal	1	EA
6	FAA C-102	Temporary Slotted Board Dam with Stone Retrofit, including installation, maintenance, and removal	2	EA
7	FAA C-102	Permanent Rip Rap Outlet Protection, including installation and maintenance	9	SY
8	FAA C-102	Permanent Slope Stabilization Matting Blanket, including installation and maintenance	172	SY
9	FAA P-101	Bituminous Pavement Removal	8,981	SY
10	FAA P-101	Remove Existing 15" CMP	100	LF
11	FAA P-101	Remove Existing Drainage Structure	1	EA
12	FAA P-101	Joint and Crack Repair and Seal	1,100	LF
13	FAA P-152	Unclassified Excavation	2,576	CY
14	FAA P-209	Crushed Aggregate Base Course, 6in Depth	2,040	CY
15	GDOT 402	Bituminous Surface Course	1,825	TN
16	FAA P-602	Bituminous Prime Coat	3,060	GAL
17	FAA P-603	Bituminous Tack Coat	1,521	GAL
18	FAA P-620	Runway & Taxiway Marking, Permanent, Yellow, Reflective with Microbicide	449	SF
19	FAA P-620	Runway & Taxiway Marking, Temporary, Yellow, Non-Reflective with Microbicide	449	SF
20	FAA D-701	18" Diam. CMP	183	LF
21	FAA D-701	18" Diam. Class IV RCP	76	LF
22	FAA D-702	Slotted Drain with 18" Diam. Pipe, including all appurtenances	312	LF
23	FAA D-702	Slotted Drain with 24" Diam. Pipe, including caps, transition sleeves, and all appurtenances	311	LF
24	FAA D-702	24" Diam. Elbow for Slotted Drain, including transition sleeves and all appurtenances	2	EA
25	FAA D-702	Concrete for Slotted Drain Backfill	145	CY
26	FAA D-751	4'x4' Drop Inlet, 0'-10' Depth	1	EA
27	FAA D-751	4'x4' Drop Inlet with Concrete Apron, 0'-10' Depth	1	EA
28	FAA D-752	18" Concrete Flared End Section	1	EA
29	FAA D-752	Modify Existing Drainage Structure	1	EA
30	FAA T-901	Permanent Grassing, including seed, lime, fertilizer, and mulch	1.0	AC
31	FAA T-905	Topsoil Placement	556	CY
32	FAA T-908	Hydraulic Mulch with Tackifier	2.7	AC
33	-	Remove/relocate existing underground electrical utilities & transformers (Jackson EMC)	1	LS

	AIR	PORT HANGER ROAD PAVEMENT AND DRAINAGE REHABILITATION (PHAS	E 3)		
ltem No.	Spec. No.	Description	Quantity	Unit	
1	FAA C-105	Mobilization	1	LS	
2	FAA C-102	Temporary Stone Check Dam, including installation, maintenance, and removal	1	EA	
3	FAA C-102	Temporary Compost Filter Sock, including installation, maintenance, and removal	552	LF	
4	FAA C-102	Temporary Slotted Board Dam with Stone Retrofit, including installation, maintenance and removal	2	EA	
5	FAA C-102	Permanent Rip Rap Outlet Protection, including installation and maintenance	10	SY	
6	FAA C-102	Permanent Slope Stabilization Matting Blanket, including installation and maintenance	1,778	SY	
7	FAA P-101	Bituminous Pavement Removal	3,912	SY	
8	FAA P-101	Marking Removal	95	SF	
9	FAA P-152	Unclassified Excavation	1,525	CY	
10	FAA P-209	Crushed Aggregate Base Course, 6in Depth	633	CY	
11	GDOT 402	Bituminous Surface Course	552	TN	
12	FAA P-602	Bituminous Prime Coat	949	GAL	
13	FAA P-603	Bituminous Tack Coat	460	GAL	
14	FAA P-620	Runway & Taxiway Marking, Permanent, Yellow, Reflective, with Microbicide	518	SF	
15	FAA P-620	Runway & Taxiway Marking, Temporary, Yellow, Non-Reflective, with Microbicide	518	SF	
16	FAA D-701	15" Diam. Class IV RCP	88	LF	
17	FAA D-752	15" Concrete Flared End Section	2	EA	
18	FAA T-901	Permanent Grassing, including seed, lime, fertilizer, and mulch	1.0	AC	
19	FAA T-905	Topsoil Placement	453	CY	
20	FAA T-908	Hydraulic Mulch with Tackifier	1.6	AC	



FOR THE

**CITY OF JEFFERSON, GEORGIA MAY 2020** 





# TOM STRONG AIRPORT MANAGER

**500 SKY HARBOR DRIVE** JEFFERSON, GA 30549 PHONE: (706) 367-1493



## NOTICE TO CONTRACTOR

- THE CONTRACTOR SHALL FIELD VERIFY THE ONSITE T.B.M. WITH EXISTING ELEVATIONS. THE CONTRACTOR SHALL IMMEDIATELY CONTACT W.K. DICKSON & CO., INC. AT 770-955-5574 IF ANY DISCREPANCIES ARE FOUND IN ELEVATIONS SHOWN
- PRIOR TO CONSTRUCTION, DIGGING, OR EXCAVATION, THE CONTRACTOR IS **RESPONSIBLE FOR LOCATING ALL** UNDERGROUND UTILITIES (PUBLIC AND/OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA(S) OF CONSTRUCTION, WHETHER INDICATED ON THE PLANS OR NOT CALL "811" A MINIMUM OF 72 HOURS PRIOR TO DIGGING OR EXCAVATING. REPAIRS TO ANY UTILITY DAMAGED RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR









GENERAL SAFETY REQUIREMENTS: GENERAL NOTES: THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HAVING VISITED THE SITE AND HAVING FAMILIARIZED THROUGHOUT THE CONSTRUCTION PROJECT, THE FOLLOWING SAFETY AND OPERATIONAL PRACTICES SHALL BE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. OBSERVED. 2. THE CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UTILITIES AND FACILITIES (I.E., AIRPORT LIGHTING, 1. OPERATIONAL SAFETY SHOULD BE A STANDING AGENDA ITEM DURING PROGRESS MEETINGS THROUGHOUT THE NAVAIDS, ETC.) FROM DAMAGE BY EQUIPMENT OR PERSONNEL. THE CONTRACTOR SHALL CONTACT ALL UTILITY CONSTRUCTION PROJECT. AND FACILITY AGENCIES FOR FIELD MARKING PRIOR TO BEGINNING CONSTRUCTION. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN 2. THE CONTRACTOR WILL OBTAIN, HAVE KNOWLEDGE OF, AND INCORPORATE THE FOLLOWING SAFETY PROVISIONS INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE INTO THE CONSTRUCTION PROJECT: EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE UNDERGROUND UTILITIES. ALL OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION AC 150/5370-2G UTILITIES AND FACILITIES ARE NOT NECESSARILY SHOWN. CONTRACTOR SHALL REPAIR OR REPLACE AIRFIELD LIGHTS OR EQUIPMENT DAMAGED BY CONSTRUCTION OPERATIONS UNDER SUPERVISION OF THE OWNER'S AIRCRAFT RESCUE AND FIRE FIGHTING COMMUNICATIONS AC 150/5210-7D. REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER. AIRPORT SAFETY SELF-INSPECTION AC 150/5200-18C. ANY UTILITIES OR FACILITIES DAMAGED DURING THE PROJECT BY THE CONTRACTOR'S WORKERS OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE BY THE END OF THE WORKING DAY. HAND • PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT AC 150/5210-5D. DIGGING TO PROTECT UTILITIES FROM DAMAGE SHOULD BE ANTICIPATED. THE FEDERAL AVIATION ADMINISTRATION WEBSITE FOR ADVISORY CIRCULARS IS: ALL DISTURBED AREAS, INCLUDING THE CONTRACTORS STAGING AREA, HAUL ROUTES, GRADING LIMITS, ETC., "WWW.FAA.GOV/AIRPORTS/RESOURCES/ADVISORY CIRCULARS/" SHALL BE RESTORED TO A SMOOTH LINE AND GRADE WITH POSITIVE DRAINAGE. THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. THERE WILL BE NO MEASUREMENT FOR PAYMENT OF SEEDING AND 3. THE CONTRACTOR, ENGINEER AND AIRPORT OPERATOR SHALL PERFORM ONSITE INSPECTIONS THROUGHOUT MULCHING REQUIRED OUTSIDE THE GRADING LIMITS, APPROVED STOCKPILE LIMITS OR APPROVED HAUL LIMITS. THE PROJECT, WITH IMMEDIATE REMEDY OF ANY DEFICIENCIES, WHETHER CAUSED BY NEGLIGENCE, OVERSIGHT, OR PROJECT SCOPE CHANGE. FOR DETAILED INSPECTION TECHNIQUES SEE AIRPORT SAFETY SELF-INSPECTION THE CONTRACTOR WILL BE REQUIRED TO TRANSPORT AND STORE ALL EQUIPMENT AND MATERIALS IN A MANNER AC 150/5200-18C. WHICH WILL NOT DAMAGE ANY EXISTING PAVEMENT, BUILDINGS, SIGNS, LIGHTS, ETC. ANY DAMAGE WILL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. THE CONTRACTOR SHALL KEEP ACCESS ROUTES 4. CONTRACTOR, SUB CONTRACTORS, AND SUPPLIER EMPLOYEES OR ANY OTHER UNAUTHORIZED PERSONS MUST CLEAN AND FREE OF LOOSE DEBRIS FROM CONSTRUCTION MATERIALS. THE CONTRACTOR SHALL ALSO BE BE RESTRICTED FROM ENTERING OR REMAINING IN AN ACTIVE AIRPORT OPERATIONS AREA. ALL CONSTRUCTION RESPONSIBLE FOR CLEARING ALL PAVEMENTS TRAVERSED BY CONSTRUCTION EQUIPMENT OF DEBRIS DAILY. TRAFFIC SHALL ENTER AND EXIT THE PROJECT AREA THROUGH THE CONSTRUCTION ENTRANCE/EXIT SHOWN ON THIS PLAN. CONTRACTOR WILL BE RESPONSIBLE FOR SECURITY OF ALL ENTRANCES DURING CONSTRUCTION. HAUL ROUTE MAINTENANCE, CLEANING, AND RESTORATION SHALL BE INCIDENTAL TO THE PROJECT. CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE ACCESS ROUTE, THE HAUL ROUTE, THE STAGING AREA, 5. CONSTRUCTION THAT IS WITHIN THE SAFETY AREA OF AN ACTIVE RUNWAY, AND/OR INSIDE THE OBJECT FREE AND CONSTRUCTION AREA, AND WILL NOT PERMIT HIS EMPLOYEES OR EQUIPMENT TO ENTER OR CROSS ANY AREA OF AN ACTIVE TAXIWAY, TAXILANE, OR APRON THAT OCCURS UNDER NORMAL OPERATIONAL CONDITIONS PORTION OF THE AIRPORT OPERATIONS AREA (RUNWAY, TAXIWAY, APRONS) AND SHALL NOT PERFORM ANY MUST BE PERFORMED WHEN THE RUNWAY, TAXIWAY, TAXILANE, OR APRON IS CLOSED OR USE-RESTRICTED AND CONSTRUCTION WITHIN THIS AREA WITHOUT PRIOR PERMISSION FROM A DESIGNATED AIRPORT INITIATED ONLY WITH PRIOR PERMISSION FROM THE AIRPORT MANAGEMENT. REPRESENTATIVE. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WALKING THE SITE TO ENSURE THAT IT IS CLEAR OF ALL DURING NON-CONSTRUCTION PERIODS AND HOURS OF DARKNESS, THE CONTRACTOR SHALL RETURN ALL OBSTRUCTIONS AND FOD AT THE END OF EVERY DAY. CONSTRUCTION EQUIPMENT TO THE STAGING AREA. 7. SELF INSPECTION IS A PRIMARY RESPONSIBILITY OF THE AIRPORT OWNER, OPERATOR, OR A DULY AUTHORIZED NO DEBRIS OF ANY NATURE SHALL BE ALLOWED OUTSIDE OF THE CONSTRUCTION AREAS. ALL LOOSE MATERIALS REPRESENTATIVE. PRIMARY ATTENTION SHOULD BE GIVEN TO SUCH OPERATIONAL ITEMS AS PAVEMENT AREAS, (MILLINGS, DIRT, STONE, PAVEMENT, FORMING, ETC.) MUST BE KEPT WITHIN THE LIMITS OF CONSTRUCTION. SAFETY AREAS, MARKINGS, SIGNS, LIGHTING, ARFF, FUELING OPERATIONS, NAVIGATIONAL AIDS, GROUND WHEN THE CONSTRUCTION BARRIERS ARE MOVED DURING CONSTRUCTION, CLEANUP OF THE AREAS OUTSIDE VEHICLES, OBSTRUCTIONS, PUBLIC PROTECTION, WILDLIFE HAZARD MANAGEMENT, CONSTRUCTION, AND SNOW THE BARRIERS SHALL OCCUR IMMEDIATELY. IN ADDITION, NO LOOSE MATERIALS THAT COULD BLOW INTO AND ICE CONTROL. FOR DETAILED INSPECTION TECHNIQUES SEE AIRPORT SAFETY SELF-INSPECTION AIRCRAFT OPERATIONS AREA SHALL BE ALLOWED IN THE CONSTRUCTION AREA. A FUNCTIONAL SWEEPER SHALL AC150/5200-18C. BE LOCATED ONSITE AT ALL TIMES THE AIRPORT IS OPEN FOR OPERATIONS. 8. CONTRACTOR SHALL BE AWARE OF THE PENALTY PROVISIONS FOR NON-COMPLIANCE WITH AIRPORT RULES AND THE CONTRACTOR & HIS/HER EMPLOYEES SHALL NOT BE ALLOWED IN THE EXISTING TERMINAL BUILDING. A REGULATIONS OF THESE SAFETY PLANS INCLUDING RESCISSION OF DRIVING PRIVILEGES OR ACCESS TO THE PORT-A-JOHN SHALL BE ON SITE AT ALL TIMES. COST OF PORT-A-JOHN SHALL BE INCIDENTAL TO THE COST OF AIRCRAFT OPERATIONS AREA. MOBILIZATION. 9. NO WATER LINES OR FIRE HYDRANTS WILL BE DEACTIVATED DURING CONSTRUCTION. IF DURING CONSTRUCTION, FIRE HYDRANTS ARE DEACTIVATED ACCIDENTALLY OR EMERGENCY ACCESS IS BLOCKED, THE PROCEDURE FOR 10. THE CONTRACTOR SHALL PROVIDE FOR EMPLOYEE PARKING WITHIN HIS STAGING AREA. ONLY AUTHORIZED NOTIFYING ARFF PERSONNEL WILL BE ACCORDING TO THE AIRPORT'S EMERGENCY RESPONSE MANUAL. VEHICLES WILL BE ALLOWED INSIDE THE SECURITY FENCE. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL POSITION ALL EQUIPMENT, TOOLS, MATERIAL, ETC. IN THE APPROVED STAGING AREA UNLESS OTHERWISE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE CONTRACTOR'S STAGING AREA IS 10. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A COPY OF THE AIRPORT'S EMERGENCY RESPONSE MANUAL AND EMERGENCY TELEPHONE DIRECTORY FOR NOTIFYING FACILITIES, AGENCIES AND SHOWN GENERALLY ON THE PLANS. THE ACTUAL SIZE AND LOCATION WILL BE DETERMINED AT THE PERSONNEL WHO HAVE RESPONSIBILITIES WITHIN THIS PLAN. CONTRACTOR SHALL ENSURE THAT AIRCRAFT PRE-CONSTRUCTION CONFERENCE. RESCUE AND FIRE FIGHTING (ARFF) RIGHT OF WAY ON ACCESS AND HAUL ROADS IS NOT IMPEDED AT ANY TIME 11. EQUIPMENT NOT IN USE SHALL BE PARKED IN THE CONTRACTOR'S STAGING AREA OR IN AREAS DESIGNATED BY AND THAT CONSTRUCTION TRAFFIC DOES NOT INTERFERE WITH NAVAIDS OR APPROACH SURFACE OF THE OPERATIONAL RUNWAY. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY EMERGENCY CONTACT INFORMATION THE RESIDENT PROJECT REPRESENTATIVE. FROM THE FBO. 12. ALL DE-WATERING REQUIRED TO EXECUTE WORK SHALL BE INCIDENTAL TO THE PROJECT. 11. THE CONTRACTOR MUST PROVIDE A CONTACT THAT IS ON CALL 24 HOURS A DAY FOR EMERGENCY MAINTENANCE 13. ALL CONSTRUCTION VEHICLES TRAVERSING ANY PORTION OF THE AOA (AIRPORT OPERATIONS AREA), MUST BE OF AIRPORT HAZARD LIGHTING AND BARRICADES. IN THE EVENT OF AN EMERGENCY THE FIXED BASE OPERATOR PROVIDED WITH A FLAG ON A STAFF ATTACHED TO THE VEHICLE SO THAT THE FLAG WILL BE READILY VISIBLE. (FBO) AND THE RESIDENT PROJECT REPRESENTATIVE (RPR) SHALL BE NOTIFIED. THE FLAG MUST BE AT LEAST 3 FEET BY 3 FEET SQUARE HAVING A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE SQUARES AT LEAST 1 FOOT ON EACH SIDE. THE STANDARD FOR IDENTIFICATION LIGHTING 12. NO STOCKPILES ARE ALLOWED IN THE RUNWAY OBJECT FREE AREA (ROFA), TAXIWAY OBJECT FREE AREA (TOFA), FOR VEHICLES OPERATING IN THE AOA IS AN AMBER FLASHING LIGHT THAT IS MOUNTED ON THE UPPERMOST OR TAXILANE OBJECT FREE AREA (TOFA). PART OF THE VEHICLE STRUCTURE. A STEADY AMBER LIGHT DESIGNATES VEHICLES LIMITED TO NON-MOVEMENT AREAS. SEE VEHICLE FLAG DETAIL 1/3. 13. THE CONTRACTOR IS REQUIRED TO FOLLOW THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP). THE CSPP AND THE SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) MUST BE SUBMITTED AND APPROVED BY FAA VIA THE 14. AIRPORT OPERATORS AND CONSTRUCTION CONTRACTORS SHALL CONTROL AND CONTINUOUSLY REMOVE OE/AAA SUBMITTAL WEBSITE PRIOR TO START OF CONSTRUCTION. WASTE OR LOOSE MATERIALS THAT MIGHT ATTRACT WILDLIFE. VARIOUS CONTRACTOR OPERATIONS DURING CONSTRUCTION CAN DIRECTLY OR INDIRECTLY CREATE WILDLIFE HAZARDS AT AIRPORTS. ONE INDIRECT WILDLIFE HAZARD BY CONTRACTOR PERSONNEL ACTIVITY IS THE GENERATION OF TRASH. FOOD SCRAPS MUST BE COLLECTED FROM CONSTRUCTION PERSONNEL AND DISPOSED OF APPROPRIATELY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ARRANGEMENTS FOR TRASH REMOVAL FROM THE PROJECT SITE AS WELL AS THE CONTRACTOR'S STAGING AREA. TRASH SHOULD BE REMOVED FROM THE SITE ON A WEEKLY BASIS AS A MINIMUM REQUIREMENT. SHOULD THIS PRACTICE PROVE TO BE INADEQUATE, THE CONTRACTOR WILL BE ASKED TO INCREASE THE FREQUENCY OF TRASH REMOVAL. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE DURING CONSTRUCTION TO AVOID STANDING WATER. 15. CONTRACTOR MUST NOT LEAVE OR PLACE FOREIGN OBJECT DEBRIS (FOD) ON OR NEAR ACTIVE AIRCRAFT MOVEMENT AREAS (AIRPORT OPERATIONS AREA). MATERIALS TRACKED ONTO THESE AREAS MUST BE CONTINUOUSLY REMOVED DURING THE CONSTRUCTION PROJECT. AN OPERATING SWEEPER MUST BE ONSITE AT ALL TIMES. NOTICES TO AIRMEN (NOTAMS) - THE CONTRACTOR SHALL FURNISH THE OWNER'S REPRESENTATIVE WITH THE 16. NECESSARY INFORMATION ON CONSTRUCTION CONDITIONS (RUNWAY/TAXILANE CLOSURES, TIE-INS, WORK WITHIN AIRPORT OPERATIONS AREA, ETC.) SO THAT NOTAMS CAN BE ISSUED BY FAA FLIGHT SERVICE IN ACCORDANCE WITH ESTABLISHED CRITERIA. THE OWNER'S REPRESENTATIVE WILL BE NAMED AT THE PRECONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL PROVIDE 10 DAYS WRITTEN NOTICE TO RPR/FBO PRIOR TO ANTICIPATED ACTIVITY THAT REQUIRES A NOTAM TO BE ISSUED. 17. CONTRACTOR SHALL OBTAIN AND DISTRIBUTE OFF-DUTY CONTACT INFORMATION OF ALL INVOLVED PARTIES IN THE CONSTRUCTION-RELATED ACTIVITIES, IN THE EVENT THAT UNANTICIPATED UTILITY OUTAGE OR CABLE CUT OCCURS THAT IMPACTS FAA NAVAIDS. 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAINING ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. CONTRACTORS OPERATING CONSTRUCTION VEHICLES AND EQUIPMENT ON THE AIRPORT MUST BE PREPARED TO EXPEDITIOUSLY CONTAIN AND CLEAN-UP SPILLS RESULTING FROM FUEL OR HYDRAULIC FLUID LEAKS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTRACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATION ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. TRANSPORT AND HANDLING OF OTHER HAZARDOUS MATERIALS ON AN AIRPORT ALSO REQUIRES SPECIAL PROCEDURES. SEE AC 150/5320-15A, MANAGEMENT OF AIRPORT INDUSTRIAL WASTE. 19. THE CONTRACTOR SHALL MONITOR RADIO COMMUNICATIONS WITH UNICOM (122.8 MHZ) AT ALL TIMES DURING CONSTRUCTION IN THE AIRPORT OPERATIONS AREA (AOA). THE CONTRACTOR WILL HAVE WORKING RADIO ON AIRPORT SPONSOR: SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL ASSIGN RESPONSIBLE PERSONNEL TO CONTINUOUSLY TOM STRONG, AIRPORT MANAGER MONITOR THE UNICOM FREQUENCY. THE CONTRACTOR SHALL PROVIDE RADIO COMMUNICATION TRAINING FOR (706) 367-1493 VEHICLE DRIVERS ENGAGED IN CONSTRUCTION ACTIVITIES AROUND AIRCRAFT MOVEMENT AREAS. UNICOM FREQUENCY: 122.8 20. BURNING WILL NOT BE ALLOWED ON AIRPORT PROPERTY. LIQUIDATED DAMAGES FOR EXCEEDING THE CONTRACT 21. CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLE IS NOT TIME SHALL BE AS FOLLOWS: PERMITTED. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS NOT PERMITTED.

22. ALL TEMPORARY MARKINGS SHALL BE IN COMPLIANCE WITH AC 150/5340-1M, STANDARDS FOR AIRPORT MARKINGS.

23. NO WETLANDS OR ENDANGERED SPECIES HABITAT ARE TO BE AFFECTED BY THIS PROJECT.

CONSTRUCTION MAINTENANCE & FACILITIES MAINTENANCE:

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITY. THE CONTRA NOTICE (USING THE NOTICE TO AIRMEN (NOTAM) SYSTEM) OF PRO COMMENCEMENT OF CONSTRUCTION (WITH 10 DAYS NOTICE PRIC RETURN OF ALL SUCH AREAS TO STANDARD CONDITIONS, THE CO VERIFY THE CANCELLATION OF ALL NOTICES ISSUED VIA THE NOT. CONSTRUCTION PROJECT, THE CONTRACTOR MUST:

- 1. BE FAMILIAR WITH AND UNDERSTAND THE SAFETY PROBLEMS OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION.
- 2. CONDUCT ACTIVITIES SO AS NOT TO VIOLATE ANY SAFETY ST THE REFERENCES THEREIN.
- 3. INSPECT ALL CONSTRUCTION AND STORAGE AREAS AS OFTE
- 4. PROMPTLY TAKE ALL ACTIONS NECESSARY TO PREVENT OR I CONDITIONS AS SOON AS THEY ARE DISCOVERED.

### RUNWAY & TAXIWAY SAFETY AREAS (RSA & TSA)

NO WORK IN AN ACTIVE RUNWAY SAFETY AREA IS PERMITTED AN CLEAR AN ACTIVE RUNWAY SAFETY AREA ARE PERMITTED. CONS AREA/OBSTACLE-FREE ZONE IS PERMISSIBLE WHEN THE TAXIWAY CONTRACTOR PROVIDES ADEQUATE WINGTIP CLEARANCE BETWE EXCAVATION, TRENCHES, OR OTHER CONDITIONS ARE CONSPICU ARE IN EFFECT FOR THE ACTIVITY (SEE AC 150/5300-13A FOR WINC WILL BE NOTIFIED OF RESTRICTED RUNWAY AND TAXIWAY USAGE

PREVENT PERSONNEL, MATERIAL, AND/OR EQUIPMENT, AS DEFINE PENETRATING THE RUNWAY OBSTACLE FREE ZONE (ROFZ).

COORDINATE CONSTRUCTION ACTIVITY WITH THE AIRPORT MANA

SURVEY NOTES:

- 1. THE FOLLOWING INFORMATION WAS USED FOR THE EXISTING COORDINATE SYSTEM: GEORGIA STATE PLANE - WEST ZONE PROJECT HORIZONTAL DATUM: NAD 83/2011 VERTICAL DATUM: NAVD 88 COORDINATE UNITS: US SURVEY FEET VERTICAL UNITS: US SURVEY FEET
- 2. SURVEY WAS DONE BY WARREN S. WOOD, GA. P.L.S. NO. 2849 COMPLETED ON OCTOBER 29, 2019.
- 3. ELEVATIONS SHOWN HEREON ARE RELATIVE TO NAVD88 AND
- 4. ALL DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS NOTED.
- 5. ALL UTILITIES MAY NOT BE SHOWN ON THIS SURVEY. ALL UTIL RIGHTS OF ENTRANCE AND MAINTENANCE ASSOCIATED WITH



CONSTRUCTION PHASING NOTES

PHASE 2 AND PHASE 3 ARE SEPARATE CONTRACTS OF WOR PHASE 2 CONTRACT. PHASE 3 WORK AS SHOWN IN THESE P FOR REFERENCE ONLY. WORK FOR EACH PHASE SHALL TAK THERE SHALL BE SEPARATE LIQUIDATED DAMAGES FOR EAG

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PHASE	DURATION	DESCRIPTION OF WORK	ARI
2	60 CALENDAR DAYS	REALIGNMENT OF EXISTING T-HANGAR APRON AREAS, REMOVAL AND REPLACEMENT OF ALL PAVEMENT IN APRON AREAS #1-3, EXPANSION OF APRON AREA #1, AND CRACK SEALING AND CLEANING OF APRON AREA #4.	WORK II TAXIWA (TSA) W CENTEF T. WORI T-HANG
3	30 CALENDAR DAYS	REMOVAL, REPLACEMENT, AND REALIGNMENT OF AIRPORT HANGER ROAD / T-HANGAR APRON PAVEMENT AREA	WORK II TAXIWA (TSA) W CENTEF T. WORI HANGEF

• PHASE 2: \$500 PER DAY FOR EXCEEDING THE 60 CALENDAR DAY CONTRACT TIME.

PHASE 3: \$500 PER DAY FOR EXCEEDING THE 30 CALENDAR DAY CONTRACT TIME.

CTOR MUST, THROUG DPOSED LOCATION, T DR TO ACTIVITY). UP DNTRACTOR MUST, TH TAM SYSTEM. THROU S AND HAZARDS DES TANDARDS CONTAINE N AS NECESSARY TO REMEDY ANY UNSAFE	GH THE AIRPORT OPERATOR, GIVE IME, AND DATE OF ON COMPLETION OF WORK AND HROUGH THE AIRPORT OPERATOR, IGHOUT THE DURATION OF THE CRIBED IN AC 150/5370-2G, ED IN AC 150/5370-2G OR ANY OF BE AWARE OF CONDITIONS. E OR POTENTIALLY UNSAFE		2120 WW	POWERS FEF SUITE 100 (t)770-955-55 (f)770-955-03	SON re consultants RRY ROAD 574 338 DN.COM
TRUCTION ACTIVITY IS OPEN TO AIRCRA EN THE AIRCRAFT A OUSLY MARKED AND GTIP CLEARANCE REG VIA NOTAM. ED IN AC 150/5300-13/	WITHIN THE TAXIWAY SAFETY FT TRAFFIC AS LONG AS THE ND EQUIPMENT/MATERIAL; LIGHTED; AND LOCAL NOTAMS QUIREMENTS.) AIRPORT USERS				
GER THROUGH THE	RPR.				
SURVEY: US SURVEY FOOT			CORD		RIPTION
WITH WOOD BROTH ARE BASED ON MEA IN FEET & DECIMALS	ERS LAND SURVEYORS, INC. AND N SEA LEVEL. THEREOF, UNLESS OTHERWISE		REVISION RE		DESC
THEM.	EREON MAY HAVE EASEMENTS AND				DATE
NOTES: 1. ALL VEHICLE ATTACHED TO VISIBLE. 2. THE FLAG WI PATTERN OF	S WILL BE PROVIDED WITH A FLAG ON A STAFF O THE VEHICLE SO THE FLAG WILL BE READILY LL BE A MIN OF 3 FOOT SQUARE WITH A CHECKERED INTERNATIONAL ORANGE AND WHITE AT LEAST 1		ASE 2		
3. CONTRACTO CHECKERED COMPLY WIT VEHICLE NOT	CH SIDE. R VEHICLES AND EQUIPMENT SHALL BE MARKED WITH FLAGS AND LIGHTED WITH FLASHING BEACONS TO H REQUIREMENTS OF FAA AC 150/5210-5G FLAG DETAIL T TO SCALE OUT SEPARATELY. THIS PLAN SET IS FOR THE ED IN THE PHASE 2 CONTRACT AND IS SHOWN	NO	AINAGE REHABILITATION - PH/	FOR THE UNTY AIRPORT (JCA) FERSON, GEORGIA	SING NOTES AND DETAILS
JCTION PHASING	AND 3 WORK MAY BE DONE CONCURRENTLY.	STRUCT	IT AND DR	F CKSON CO ITY OF JEF	AND PHAS
EAS AFFECTED INSIDE THE AY SAFETY AREA VITHIN 24.5' OF THE RLINE OF TAXIWAY RK IN THE GAR APRON AREA.	MITIGATION OF EFFECTS TAXIWAY T SHALL BE CLOSED WHILE WORK IS BEING DONE INSIDE THE TOFA OF THE TAXIWAY WITHIN 39.5' OF THE CENTERLINE. THE T-HANGAR APRON AREA AND AIRPORT HANGER ROAD SHALL ALSO BE CLOSED TO AIRCRAFT. CONTRACTOR TO INSTALL LIGHTED BARRICADES TO PREVENT AIRCRAFT FROM ENTERING WORK AREA AND TO PREVENT WORK CREWS FROM ENTERING AIRCRAFT MOVEMENT AREAS. NOTAMS TO BE ISSUED 72	NOT FOR CON	PROJECT NAME: APRON PAVEMEN	DAC	DRAWING TITLE: SAFETY
INSIDE THE AY SAFETY AREA VITHIN 24.5' OF THE RLINE OF TAXIWAY &K IN THE AIRPORT R ROAD.	HOURS PRIOR TO CONSTRUCTION. TAXIWAY T SHALL BE CLOSED WHILE WORK IS BEING DONE INSIDE THE TOFA OF THE TAIXWAY WITHIN 39.5' OF THE CENTERLINE. AIRPORT HANGER ROAD SHALL ALSO BE CLOSED TO AICRAFT. CONTRACTOR TO INSTALL LIGHTED BARRICADES TO PREVENT AIRCRAFT FROM ENTERING WORK AREA AND TO PREVENT WORK CREWS FROM ENTERING AIRCRAFT MOVEMENT AREAS. NOTAMS TO BE ISSUED 72 HOURS PRIOR TO CONSTRUCTION.	BID DOCUMENTS -	PROJ. I DESIGI DRAWN PROJ. I DRAWI	MGR.: MR NBY: BCI DATE: MA NG NUMBER <b>3 OF</b> PROJ. NO.: 190358.0	J F G Y 2020 A: <b>24</b> : D0.AT



## DEMOLITION AND CLEARING NOTES:

- 1. CONTRACTOR SHALL REMOVE DESIGNATED STRUCTURES AS SHOWN WITHIN
- THESE PLANS AND DISPOSE OF AT NO ADDITIONAL COST TO THE OWNER. 2. BITUMINOUS PAVEMENT REMOVAL PAY ITEM SHALL INCLUDE THE REMOVAL OF EXISTING ASPHALT, STONE BASE MATERIAL, AND SOILS TO PROPOSED SUBGRADE ELEVATION. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK.
- 3. ITEMS TO BE REMOVED THAT ARE NOT INDICATED BY A SEPARATE PAY ITEM IN THE SCHEDULE OF WORK SHALL NOT BE MEASURED OR PAID FOR SEPARATELY.
- 4. ALL MATERIAL TO BE REMOVED (INCLUDING GRAVEL AND SOIL DEBRIS)
- SHALL BE HAULED OFF TO A DESIGNATED OFF-SITE FACILITY. 5. THE CONSTRUCTION ACTIVITY AREA AS SHOWN SHALL BE STRIPPED OF ALL
- VEGETATION, TOPSOIL, AND ROOT SYSTEMS.
- 6. THE EXISTING SOILS ON-SITE CONSIST OF SAND CLAY STRATA THAT WILL LOSE STRENGTH AND DEGRADE RAPIDLY UNDER CONSTRUCTION TRAFFIC AND REPETITIVE CONSTRUCTION OPERATIONS WHEN WORKED DURING WET PERIODS. CONTRACTOR TO INSURE POSITIVE DRAINAGE RUNOFF TO PREVENT THE PONDING OF STORM WATER ON-SITE FOR THE ENTIRE DURATION OF CONSTRUCTION ACTIVITY.
- 7. SEE SHEET 5 FOR LIMITS OF DISTURBANCE COORDINATE LOCATION TABLE. 8. A FIELD SURVEY WAS COMPLETED ON AUGUST 5, 2019 BY WOOD BROTHERS LAND SURVEYORS, INC.
- 9. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH JACKSON COUNTY EMC FOR THE REMOVAL AND RELOCATION OF ALL EXISTING ELECTRICAL UTILITIES NECESSARY FOR CONSTRUCTION, INCLUDING BOXES, TRANSFORMERS, CABLING (ABOVE GROUND AND/OR BELOW GROUND) AND ASSOCIATED APPURTENANCES EITHER SHOWN OR NOT SHOWN ON THIS PLAN PRIOR TO START OF CONSTRUCTION. THIS WORK IS INCIDENTAL TO "REMOVE/RELOCATE EXISTING UNDERGROUND ELECTRICAL UTILITIES & TRANSFORMERS (JACKSON EMC)" PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.

LIMITS OF	DISTURBANCE &	
POINT NO.	NORTHING	EASTING
1	1518619.1384	2480991.2630
2	1518615 3111	2480969 9750
3	1518552 1242	2480967 4800
4	1518553 6695	2480928 3455
5	1518533 6851	2480927 5564
6	1518534 6500	2480903 1181
7	1518511 5834	2480901 6993
8	1518502 1799	2480887 1120
9	1518403 1364	2480919 9070
10	1518394 9255	2480939 7803
11	1518386 1811	2480942 7128
12	1518378 8007	2480040 1205
12	1518360 4007	2400340.1200
10	1519300.4007	2400340.4332
14	1518322.4623	2480950.1619
15	1518228.1865	2480977.5570
16	1518130.7727	2481014.6911
17	1518037.9913	2481037.1746
18	1518026.5349	2481037.3083
19	1518020.6068	2481024.8155
20	1518034.2467	2481014.0931
21	1518028.8792	2480994.6683
22	1518032.5107	2480958.7898
23	1517931.8996	2480590.0270
24	1517991.2077	2480573.2720
25	1518088.3872	2480943.6877
26	1518004.7683	2480622.0537
27	1518058.7400	2480607.0503
28	1518146.3465	2480927.6486
29	1518210.2097	2480908.8168
30	1518123.8525	2480588.2447
31	1518176.9594	2480573.9385
32	1518263.3165	2480894.5106
33	1518339.2685	2480873.8420
34	1518256.1326	2480566.6290
35	1518302.8827	2480554.0125
36	1518385.8038	2480861.2838
37	1518432.6129	2480842.3841
38	1518344.9190	2480511.3140
39	1517973.8963	2480554.2499
40	1518012.6969	2480526.8292
41	1518028.8616	2480538.8993
42	1518045.6996	2480559.4916

LIMITS OF	LIMITS OF DISTURBANCE & DEMOLITION COORDINATE TABLE		
POINT NO.	NORTHING	EASTING	
44	1518143.1854	2480523.6584	
45	1518148.0316	2480543.8478	
46	1518183.6366	2480533.6502	
47	1518172.0358	2480513.9593	
48	1518191.7994	2480495.0632	
49	1518258.0571	2480493.7219	
50	1518266.2799	2480498.8494	
51	1518261.3987	2480511.3446	
52	1518284.4074	2480513.3698	
53	1518357.3024	2480492.2248	
54	1518372.4763	2480487.3314	
55	1518410.3184	2480587.2553	
56	1518452.6017	2480575.8446	
57	1518506.2734	2480774.7299	
58	1518464.5766	2480785.9823	
59	1518482.6706	2480815.6241	
60	1518578.2901	2480790.7421	
61	1518580.5550	2480765.5923	
62	1518587.1201	2480758.5648	
63	1518617.9915	2480741.2192	
64	1518622.3662	2480672.4674	
65	1518627.0011	2480507.8716	
66	1518625.7869	2480440.4225	
67	1518634.9144	2480433.0023	
68	1518642.8574	2480434.0440	
69	1518645.1782	2480505.1599	
70	1518642.3648	2480610.8523	
71	1518641.1010	2480748.7645	
72	1518651.2820	2480781.2973	
73	1518648.3864	2480868.3784	
74	1518635.7645	2480908.4699	
75	1518636.8491	2480960.6112	
76	1518615.6672	2480241.1177	
77	1518609.0706	2480249.5196	
78	1518642.6444	2480286.2265	
79	1518645.4267	2480325.2600	
80	1518653.2304	2480325.6714	
81	1518653.5085	2480283.5400	
81	1518653.5085	2480283.5400	
82	1518626.9444	2480242.3652	
82	1518626.9444	2480242.3652	
83	1518462.0106	2480841.2286	

<b>BID DOCUMENTS -</b>	NOT FOR CONSTRUCTION			
PROJ. MGR.: MR. DESIGN BY: BCF DRAWN BY: CJG PROJ. DATE: MAY DRAWING NUMBER: <b>5 OF</b> WKD PROJ. NO.: 20190358.0	PROJECT NAME: APRON PAVEMENT AND DRAINAGE REHABILITATION - PHASE 2 FOR THE JACKSON COUNTY AIRPORT (JCA) CITY OF JEFFERSON, GEORGIA	REVISION RECORD		2120 POWERS FERI SUITE 100 (t)770-955-55 (f)770-955-03 WWW.WKDICKSO
<u>,</u> 2020 24 00.AT	DRAWING TITLE: LIMITS OF DISTURBANCE TABLES	DESCRIPTION	SEAL	SON e consultants RY ROAD 74 38 DN.COM

![](_page_5_Figure_0.jpeg)

# **EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS FOR: APRON PAVEMENT AND DRAINAGE REHABILITATION - PHASE 2**

![](_page_5_Picture_2.jpeg)

![](_page_5_Picture_4.jpeg)

PHONE: TO BE DETERMINED AFTER

CONTRACT AWARD

OWNER / DEVELOPER: JACKSON COUNTY AIRPORT (JCA) TOM STRONG **AIRPORT MANAGER 500 SKY HARBOR DRIVE** JEFFERSON, GA 30549

PHONE: (706) 367-1496

## FOR

# **JACKSON COUNTY AIRPORT (JCA)**

## **MAY 2020**

W.K. DICKSON & CO., INC. PROJECT NO. 20190358.00.AT (DESIGN)

2120 P AT	OWERS FERRY SUITE 100 LANTA, GA 303 (t)770-955-5574 (f)770-955-0338 V.WKDICKSON	ROAD 339 4 3. COM
EXPIR	GSWCC NO. 574 ATION DATE 04/1	6 4/2021
		BY
REVISION RECORD		DESCRIPTION
SE 2		NO. DATE
PROJECT NAME: APRON PAVEMENT AND DRAINAGE REHABILITATION - PHAS	FOR THE JACKSON COUNTY AIRPORT (JCA) CITY OF JEFFERSON, GEORGIA	
PROJ. M DESIGN DRAWN PROJ. D DRAWIN	GR.: MRJ BY: BCF BY: CJG ATE: MAY 2 G NUMBER: O OF 2	2020 24

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## INDEX OF DRAWINGS DRAWING TITLE EROSION CONTROL PLAN COVER

NPDES NOTES - SHEET 1
NPDES NOTES - SHEET 2
NPDES NOTES - SHEET 3
GAR100002 CHECKLIST
BMP LOCATION PLAN PHASE 1 - CLEARING & GRUBBING
BMP LOCATION PLAN PHASE 2 - TEMPORARY GRASSING & VEGETATION
BMP LOCATION PLAN PHASE 3 - PERMANENT VEGETATION & STABILIZATION
EROSION CONTROL DETAILS - SHEET 1
EROSION CONTROL DETAILS - SHEET 2
EROSION CONTROL DETAILS - SHEET 3

ER	OSION. SEDIMENTATION & POLLUTION CONTROL NOTES	EROSION, SEDIMENT
<u> </u>	EROSION, SEDIMENT, AND POLLUTION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO	(3) <u>SOIL CLEANUP AND CC</u>
	ANY OTHER CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL CHECK LIST IS LOCATED ON THE 4TH EROSION NOTE SHEET.	LOCAL, STATE AND     CLEARLY POSTED A
2.	LEVEL II CERTIFIED DESIGN PROFESSIONAL: BRAD FERMANICH GSWCC CERTIFICATION: 5746	MATERIAL AND EQU STORAGE AREAS. T BROOMS, DUSTPAN PROPERLY LABELEE
3	24 HOUR CONTACT: TO BE DETERMINED AFTER CONTRACT AWARD	SPILL PREVENTION     ADJUSTED AS NECE
4.	PRIMARY PERMITTEE: JACKSON COUNTY AIRPORT (JCA)	ALL SPILLS WILL BE REPORTED AS REQU
	500 SKY HARBOR DRIVE JEFFERSON, GA 30549	<ul> <li>FOR SPILLS THAT IN NATIONAL RESPONS</li> <li>FOR SPILLS OF AN U</li> </ul>
_	(706) 367-1496	CONTACTED WITH 2 • FOR SPILLS GREAT
5.	TOTAL SITE AREA = 177.69 ACRES TOTAL DISTURBED AREA = 4.12 ACRES	<ul> <li>WILL BE CONTACTE</li> <li>FOR SPILLS LESS TI</li> </ul>
	THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION IS SHOWN ON THE PLAN SHEETS.	(1) THE CONTRACTOR SH
3.	GPS LOCATIONS FOR BEGINNING AND END OF PROJECT ARE SHOWN ON SHEET 6.	(2) THE CONTRACTOR SH
7.	INITIAL DATE ON THE PLANS: MAY 2020 REVISION DATE:	ANY ONE PIECE OF EC WILL NEED A SPILL PR
	NATURE OF CONSTRUCTION ACTIVITY CONSISTS OF: <u>REALIGNING APRONS ON EAST AND WEST</u> ENDS OF THE HANGARS, REMOVAL AND REPLACEMENT OF PAVEMENT IN AIRPORT HANGER ROAD AND APRON AREAS 1, 2, AND 3, NEW SLOTTED DRAIN IN APRONS 1 AND 3, EXPANSION OF APRON 1 TO THE NORTH, CRACK SEALING OF PAVEMENT IN APRON AREA 4.	26. A DESCRIPTION OF THE ME TO CONTROL POLLUTANTS
	VICINITY MAP: SEE COVER SHEET (SHEET 6).	27. THIS PROJECT DOES NOT I
).	THE RECEIVING WATERS FOR THIS PROJECT IS AN UNNAMED TRIBUTARY TO PARKS CREEK WHICH IS A PART OF THE GREATER OCONEE RIVER BASIN. ALL STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN DELINEATED IN THESE PLANS.	28. A DESCRIPTION OF THE PF WATER DISCHARGES ARE:
1	14. THE DESIGN PROFESSIONAL CERTIFICATION STATEMENTS AND DESIGN PROFESSIONAL'S STATEMENTS ARE LOCATED ON SHEET 6.	(1) INITIAL PHASE (PHASE
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 WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.	DEMOLITION AND TOPS CY PER ACRE SEDIMEN ON EXISTING UPSTREA COMPOST FILTER SOC ADDITIONAL SEDIMEN
6.	THIS PROJECT DOES NOT ENCROACH ON ANY BUFFERS.	EXIT AND DISTURBED A LIMITS OF DISTURBAN STRIPPING AREAS, AN
7.	THE DESIGN PROFESSIONAL'S STATEMENTS ARE LOCATED ON SHEET 6.	BMP LOCATION PLAN. OF APPROPRIATE COM
8.	WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.	(2) INTERMEDIATE PHASE PHASE 2 OF THE PLAN STORM DRAINAGE NE
	WASTE MATERIALS	STORAGE UTILIZING F HEADWALLS, AN EXCA DAM. PERIMETER COM
	ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATION. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.	STABILIZATION STRUC DRAINAGE PIPES. ADD PREVENT SEDIMENT F FOR PHASE 2 ARE THE SEE EROSION CONTRO CONTROLS.
	ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.	(3) FINAL PHASE (PHASE 3 PHASE 3 OF THE PLAN
9.	"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."	PROJECT SITE. SEE SH DETAILS ON SHEETS 1
20.	"EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES.	ACTIVITIES.
	IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION	ESTIMATED START DATE:
	AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE."	ESTIMATED COMPLETION I PROJECT DURATION:
21.	"ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."	PHASE 2 AN
22.	THIS PROJECT <u>DOES NOT</u> DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT.	
23.	A TMDL IMPLEMENTATION PLAN FOR SEDIMENT <u>IS NOT APPLICABLE</u> TO THIS PROJECT. (SEE ITEM #22 ABOVE).	PERIMETER SILT FILTER SOCK TOPSOIL & STRIP AREAS FOR SED. STORAGE BMP'S
24.	CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLE IS PERMITTED. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. THIS PROJECT <u>DOES NOT ALLOW</u> THE CONCRETE WASHDOWN ON THE PROJECT SITE. SEE ES&PC PLANS FOR LOCATION IF ALLOWED.	INSTALL EROSION CONTROL BMP'S DESIGN PROFESSIONAL'S 7 DAY INSPECTION
25.	SPILL PREVENTION AND HAZARDOUS WASTES NOTES:	
	(1) ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH	ROUGH GRADING
	PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONAL IN	INSTALL STORM DRAINAGE SYSTEM
	WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM	INSTALL & MAINTAIN TEMP. STAB. IN AREAS NOT AT FINAL GRADE
	THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPORE II E AT THE LOD SITE CONSTRUCTION TRAILED OFFICE.	FINAL GRADING
	EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THF	FINAL GRADED AREAS INSTALL PAVEMENT AREAS AND
	APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.	PROPOSED SITE FEATURES CLEAN UP SITE AND REMOVE TEMP.
	(2) THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL ADDRODDIATE MEASURED IN	ERUSION CONTROL BMP'S
	COMPLIANCE WITH STATE AND FEDERAL REGULATION ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.	

## TION & POLLUTION CONTROL NOTES (continued)

NTROL PRACTICES

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE ND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. IPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL YPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, , MAPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND
- ) PLASTIC AND METAL WASTE CONTAINERS. PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND SSARY TO PREVENT FUTURE SPILLS.
- CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE JIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. PACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE
- E CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675. NKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE
- HOURS AT 1-800-426-2675.
- R THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WITHIN 24 HOURS.
- IAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE DCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
- ALL NOT STORE MORE THAN 1320 GALLONS OF PETROLEUM ON SITE OF EQUIPMENT.
- ALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF UIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR EVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY A
- ASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS IN STORM WATER AFTER CONSTRUCTION OPERATIONS HAVE BEEN ENT VEGETATION.
- NCLUDE THE CONSTRUCTION OF ANY PROPOSED BUILDINGS AND DOES NOT R COVERING BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE.

- IS FOR INSTALLATION OF INITIAL EROSION CONTROL BMP'S, SITE OILING AND STRIPPING OPERATIONS. PHASE 1 INCLUDES THE REQUIRED 67 T STORAGE UTILIZING THREE SLOTTED BOARD DAM RETROFITS INSTALLED M HEADWALLS, AND AN EXCAVATED INLET SEDIMENT TRAP. PERIMETER K, FILTER SOCK DITCH CHECKS, AND STONE CHECK DAM SERVE AS STORAGE DEVICES. ADDITIONAL PHASE 1 BMPS INCLUDE A CONSTRUCTION REA MULCHING THAT WILL PREVENT SEDIMENT FROM LEAVING THE SITE. E FOR PHASE 1 ARE ALL OF THE DEMOLITION AREAS, TOPSOILING AND ) AREAS NEEDED TO INSTALL INITIAL BMPS. SEE SHEET 11 FOR THE PHASE 1 SEE EROSION CONTROL DETAILS ON SHEETS 14 TO 16 FOR A DESCRIPTION TROLS.
- (PHASE 2): IS FOR ROUGH GRADING OF THE APRON AREA AND INSTALLATION OF WORK. PHASE 2 INCLUDES THE REQUIRED 67 CY PER ACRE SEDIMENT OUR SLOTTED BOARD DAM RETROFITS INSTALLED ON EXISTING UPSTREAM ATED INLET SEDIMENT TRAP, FILTER SOCK DITCH CHECKS, STONE CHECK POST FILTER SOCK, AND INLET SEDIMENT TRAPS. PERMANENT OUTLET FURES SERVE TO REDUCE THE VELOCITY OF FLOW THAT EXIT STORM TIONAL PHASE 2 BMPS INCLUDE MULCHING AND TACKIFIER THAT WILL ROM LEAVING THE SITE AND AID IN STABILIZATION. LIMITS OF DISTURBANCE SAME AS PHASE 1. SEE SHEET 12 FOR THE PHASE 2 BMP LOCATION PLAN. L DETAILS ON SHEETS 14 TO 16 FOR A DESCRIPTION OF APPROPRIATE

TO 16 FOR A DESCRIPTION OF APPROPRIATE CONTROLS.

ELOW FOR DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR

ESTIMATED START DATE:	PHASE 2: <u>08/01/2020</u>
	PHASE 3: TO BE DETERMINED
ESTIMATED COMPLETION DATE:	PHASE 2: 10/01/2020
	PHASE 3: TO BE DETERMINED
PROJECT DURATION:	PHASE 2: 60 CALENDAR DAYS
	PHASE 3: 30 CALENDAR DAYS

### TICIPATED PHASE 3 ANTICIPATED TIVITY SCHEDULE CONSTRUCTION ACTIVITY SCHEDULE MONTH CONSTRUCTION ACTIVITY INSTALL CONSTRUCTION EXIT & PERIMETER SILT FILTER SOCK TOPSOIL & STRIP AREAS FOR SED. STORAGE BMP'S INSTALL EROSION CONTROL BMP'S \_\_\_\_\_ DESIGN PROFESSIONAL'S 7 DAY INSPECTION MAINTAIN EROSION CONTROL BMP'S TOPSOIL STRIPPING / STORING ROUGH GRADING INSTALL STORM DRAINAGE SYSTEM INSTALL & MAINTAIN TEMP. STAB. IN AREAS NOT AT FINAL GRADE FINAL GRADING INSTALL & MAINTAIN PERM. STAB. IN FINAL GRADED AREAS INSTALL PAVEMENT AREAS AND PROPOSED SITE FEATURES CLEAN UP SITE AND REMOVE TEMP. EROSION CONTROL BMP'S

		MOI	NTH		
CONSTRUCTION ACTIVITY	1			4	2
NSTALL CONSTRUCTION EXIT & PERIMETER SILT FILTER SOCK					
OPSOIL & STRIP AREAS FOR SED. STORAGE BMP'S					
NSTALL EROSION CONTROL BMP'S					
DESIGN PROFESSIONAL'S 7 DAY NSPECTION					
IAINTAIN EROSION CONTROL BMP'S					
OPSOIL STRIPPING / STORING					
ROUGH GRADING					
NSTALL STORM DRAINAGE SYSTEM					
NSTALL & MAINTAIN TEMP. STAB. IN REAS NOT AT FINAL GRADE					
INAL GRADING					
NSTALL & MAINTAIN PERM. STAB. IN INAL GRADED AREAS					
NSTALL PAVEMENT AREAS AND PROPOSED SITE FEATURES					
CLEAN UP SITE AND REMOVE TEMP. ROSION CONTROL BMP'S					

ACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM

- IS FOR FINAL STABILIZATION OF THE APRON PAVEMENT AND DRAINAGE PHASE 3 INCLUDES PERMANENT VEGETATION AND STABILIZATION OF EET 13 FOR THE PHASE 3 BMP LOCATION PLAN. SEE EROSION CONTROL
  - ERMINED TERMINED NDAR DAYS

## EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES (continued)

30. INSPECTIONS

- A. PERMITTEE REQUIREMENTS
- (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 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 A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
- (3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON- WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- (4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- (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 THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY 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 STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

31. SAMPLING FREQUENCY AND REPORT

### SAMPLING FREQUENCY

- (1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT 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 THIS PERMIT. AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;
- (B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A 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 REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;
- (C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS\* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
- (D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE: 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.

## EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES (continued)

### REPORTING

- d. THE TIME(S) ANALYSES WERE INITIATED; e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;

- SERVICE

## 32. RETENTION OF RECORDS

- THIS PERMIT

- PFRMIT
- THIS PERMIT:

- PERMIT.

PERMITTEE.

## GUIDELINES FOR SAMPLING TURBIDITY.

- LOCATION;

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 THE DAY OR WEEK.

(4) NON-STORM WATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

(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 SAMPLING 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 THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.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;

f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE 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 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

(1) ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS 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 EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR

(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 c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED

IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS

e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF

f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART OF THIS PERMIT: AND g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS

(1) 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

33. SAMPLING REQUIREMENTS AND ANALYTICAL METHODS USED FOR SAMPLING

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S

A. 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 INFRASTRUCTURE 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 FOR EACH REPRESENTATIVE STORMWATER OUTFALL. 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 AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING

(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.

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### EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES (continued) B. SAMPLE TYPE ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES 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 RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED. (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. C. SAMPLING POINTS (1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. 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 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 SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE. c. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL 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 FACE UPSTREAM. f. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS. g. PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW 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., 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). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE. 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. (2). N/A - THIS PROJECT WILL NOT UTILIZE REPRESENTATIVE SAMPLING. (3). N/A - THIS PROJECT WILL NOT UTILIZE REPRESENTATIVE SAMPLING. (4). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A SELECTED RECEIVING WATER NO LONGER REPRESENTS ANOTHER RECEIVING WATER, THEN THE PERMITTEE SHALL SAMPLE THE LATTER RECEIVING WATER UNTIL SELECTION OF AN ALTERNATIVE REPRESENTATIVE RECEIVING WATER. (5). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A RECEIVING WATER IS DETERMINED NOT TO BE REPRESENTED AS CERTIFIED IN THE PLAN, THE PERMITTEE SHALL SAMPLE THAT RECEIVING WATER UNTIL A NOTICE OF TERMINATION IS SUBMITTED OR UNTIL THE APPLICABLE PHASE IS STABILIZED IN ACCORDANCE WITH THIS PERMIT. (6). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, MONITORING OBLIGATIONS SHALL CEASE FOR ANY PHASE OF THE PROJECT THAT HAS BEEN STABILIZED IN ACCORDANCE WITH PART IV.D.6.C.(1).(G). 34. OUTFALL SAMPLING POINTS AND MONITORING SITES. MONITORING SITE CHART TOTAL SITE DRAINAGE AREA MONITORING STREAM TYPE NTU LIMIT \* AREA (AC) SITE ID TYPE AC. SQ. MI. DOWNSTREAM 177.69 1.43 0.0022 WARM 50 OUTFLOW DOWNSTREAM 177.69 12.04 0.0188 WARM 50 OUTFLOW SEE APPENDIX B "NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLES" IN GENERAL PERMIT NO. GAR100002 FOR NTU LIMITS FOR TROUT STREAMS AND WARM WATER FISHERIES.

## EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES (continued)

- 35. ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES UTILIZE REPRESENTATIVE SAMPLING.
- CONSTRUCTION SITE INCLUDING INITIAL, INTERMEDIATE AND FINAL PHASE BMP'S.

## **INITIAL PHASE**

## **EROSION CONTROL NOTES**

- 1. PRIOR TO THE LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
- 2. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, FUEL STORAGE, OR DEBRIS BURN AND BURIAL HOLES SHOULD BE LOCATED WITHIN 50 FT OF DESIGNATED TREE PROTECTION AREAS OR STREAM BUFFERS.
- 3. A COPY OF THE ES&PC PLAN MUST BE PRESENT ON THE SITE AT ALL TIMES.
- 4. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES, THE LIMITS OF LAND DISTURBANCE SHOULD BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHOULD BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- 5. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
- 6. TYPE "C" PERIMETER COMPOST FILTER SOCK SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER COMPOST FILTER SOCK SHOULD BE INSPECTED WEEKLY AND AFTER QUALIFYING RAIN EVENTS FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
- 7. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.
- 8. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
- 9. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHOULD OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR SHOULD CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION WITH CONSULTATION WITH THE DESIGN PROFESSIONAL.
- 10. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH REMAINING CLEARING AND GRUBBING ACTIVITIES.
- 11. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
- 12. PERMITTEES SHALL INSPECT CONTROL MEASURES AS REQUIRED BY NPDES. ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK
- 13. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES CAN RESULT IN TO THE APPROVED EROSION CONTROL PLANS.
- 14. NO BURY OR BURN PITS SHALL BE PERMITTED ON THE PROJECT SITE WITHOUT WRITTEN AUTHORIZATION BY THE OWNER.
- 15. PERIMETER COMPOST FILTER SOCK SHALL BE INSTALLED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL ALL PERIMETER COMPOST FILTER SOCK AND TEMPORARY SEDIMENT PONDS AND/OR RETROFITTED DETENTION PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
- 16. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- 17. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED DAILY BY CONTRACTOR TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 18. THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

INTO WHICH STORM WATER IS DISCHARGED IS DELINEATED ON SHEET 11. THIS PROJECT WILL NOT

36. DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED A THE

## INTERMEDIATE PHASE

## **EROSION CONTROL NOTES**

- 1. PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATION, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
- 2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHOULD BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
- 3. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- 4. TYPE "C" PERIMETER COMPOST FILTER SOCK SHALL BE PLACED 10' FROM THE TOE OF ALL DIRT STOCK PILE AREAS. STOCK PILES ARE TO BE COVERED AT THE END OF EACH DAY.
- 5. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED.
- 6. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.
- 7. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN AND AS NECESSARY FOR CONTROL OF STORMWATER.
- 8. MULCH, TEMPORARY VEGETATION, OR PERMANENT VEGETATION SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
- 9. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED WEEKLY AND AFTER EACH QUALIFYING RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED IF SEDIMENT ACCUMULATION HAS REACHED 1/2 THE CAPACITY OF THE DEVICE.
- 10. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED. 12. CUT SLOPES ARE NOT TO EXCEED "2H:1V"
- FILL SLOPES ARE NOT TO EXCEED "2.5H:1V"
- 13. ALL DRAINAGE SWALES SHALL BE APPLIED WITH PERMANENT VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
- 14. ALL GRADED AREAS SHALL BE APPLIED WITH PERMANENT VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
- 15. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- 16. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES CAN RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
- 17. THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

## **FINAL PHASE** EROSION CONTROL NOTES

- TEMPORARY GRASSING.
- INLET PROTECTION.

- UNLESS NOTED ON PLANS.

1. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN. 2. MULCH, TEMPORARY VEGETATION, OR PERMANENT VEGETATION SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

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

4. WHERE APPLICABLE, AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAVE BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER

5. ALL GRADING SHOULD BE APPLIED WITH PERMANENT VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

6. EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

7. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

8. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES CAN RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

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

10. UPON COMPLETE SITE STABILIZATION OF PERMANENT GROUND COVER, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM

![](_page_7_Figure_65.jpeg)

## EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES (continued)

- 37. GRAPHIC SCALE AND NORTH ARROWS ARE DISPLAYED ON THE PLAN SHEETS.
- 38. TOPOGRAPHIC INFORMATION OBTAINED FROM FIELD RUN SURVEY. EXISTING AND PROPOSED CONTOUR LINES ARE DISPLAYED ON THE EROSION AND SEDIMENT CONTROL SHEETS AND THE USGS QUAD MAP ON SHEET 6.
- 39. 40. USE OF ALTERNATE BMP'S IS NOT APPLICABLE TO THIS PROJECT.
- 41. DELINEATION OF THE APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY IS CLEARLY NOTED AND DELINEATED ON THE EROSION CONTROL PLAN SHEETS.
- 42. DELINEATION OF ON-SITE WETLANDS AND ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SET IS SHOWN ON THE EROSION CONTROL PLAN SHEETS.
- DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE AREAS ON THE PROJECT SITE ARE 43. - 44. SHOWN ON SHEET 11.
- 45. RUNOFF COEFFICIENT: WEIGHTED PRE-CONSTRUCTION CURVE NUMBER = 77 WEIGHTED POST-CONSTRUCTION CURVE NUMBER = 77
- 46. STORM DRAIN OUTLET PROTECTION DATA IS SHOWN ON SHEET14. STORM DRAIN OUTLET PROTECTION BMP'S ARE LOCATED ON SHEETS 12 AND 13.
- 47. SOIL SERIES FOR THIS PROJECT ARE SHOWN ON THE EROSION CONTROL PLANS SHEETS AND LISTED BELOW:

	SOIL TABLE	
SOIL SYMBOL	NAME	HYDROLOGIC SOIL GROUP
CeB	CECIL SANDY LOAM, 2 TO 6 PERCENT SLOPES	В
CeC	CECIL SANDY LOAM, 6 TO 10 PERCENT SLOPES	В
CfC2	CECIL SANDY CLAY LOAM, 6 TO 10 PERCENT SLOPES, ERODED	В

- 48. LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION IS DISPLAYED ON THE EROSION CONTROL PLAN SHEETS AND COVER PAGE.
- 49. A MINIMUM OF 67 CY PER ACRE SEDIMENT STORAGE PER ACRES DRAINED IS PROVIDED USING A SLOTTED BOARD DAM WITH STONE RETROFIT WHERE STORMWATER EXISTS THE SITE. PERIMETER COMPOST FILTER SOCK, COMPOST FILTER SOCK DITCH CHECKS, A STONE CHECK DAM, AN EXCAVATED INLET SEDIMENT TRAP, AND INLET SEDIMENT TRAPS SERVE AS ADDITIONAL SEDIMENT STORAGE DEVICES. SEE EROSION AND SEDIMENT CONTROL DETAILS ON SHEETS 14 TO 16 FOR SEDIMENT STORAGE CALCULATIONS.
  - PROVIDE A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED USING A TEMPORARY SEDIMENT BASIN, RETROFITTED DETENTION POND, AND/OR EXCAVATED INLET SEDIMENT TRAPS FOR EACH COMMON DRAINAGE LOCATION. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED. A WRITTEN JUSTIFICATION EXPLAINING THE DECISION TO USE EQUIVALENT CONTROLS WHEN A SEDIMENT BASIN IS NOT ATTAINABLE MUST BE INCLUDED IN THE PLAN FOR EACH COMMON DRAINAGE LOCATION IN WHICH A SEDIMENT BASIN IS NOT PROVIDED. A WRITTEN JUSTIFICATION AS TO WHY 67 CUBIC YARDS OF STORAGE IS NOT ATTAINABLE MUST ALSO BE GIVEN. WORKSHEETS FROM THE MANUAL MUST BE INCLUDED FOR STRUCTURAL BMPs AND ALL CALCULATIONS USED BY THE DESIGN PROFESSIONAL TO OBTAIN THE REQUIRED SEDIMENT STORAGE WHEN USING EQUIVALENT CONTROLS. WHEN DISCHARGING FROM SEDIMENT BASINS AND IMPOUNDMENTS, PERMITTEES ARE REQUIRED TO UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE, UNLESS INFEASIBLE. IF OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE ARE NOT FEASIBLE, A WRITTEN JUSTIFICATION EXPLAINING THIS DECISION MUST BE INCLUDED IN THE PLAN.
- 50. SEE SHEETS 11 TO 13 FOR THE LOCATION OF BEST MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. REFER TO EROSION CONTROL DETAIL SHEET 14 FOR THE BMP UNIFORM CODING LEGEND.
- DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES ARE SHOWN ON THE EROSION CONTROL PLAN SHEETS AND DETAIL SHEETS 14 TO 16.

## EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES (continued)

52. SEE SHEET 15 FOR VEGETATIVE PLAN, INCLUDING TEMPORARY AND PERMANENT GRASS PLANTING SCHEDULE.

## MISCELLANEOUS NOTES

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 STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

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

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

FERTILIZER/HERBICIDES - 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 GSWCC 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 ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

### 2. SANITARY WASTES

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

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

NO SANITARY SEWER/SEPTIC SYSTEM WILL SERVE THIS PROJECT.

ALL EROSION CONTROL MEASURES AND DEVICES SHALL BE CHECKED DAILY AND ANY TOPSOIL STORAGE AREAS WILL BE COVERED AT THE END OF EACH WORK DAY.

3.

4.

6. BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED TO MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENT AND THE GENERATION OF DUST.

7. ALL AD VALOREM TAXES OWED AND DUE RELATED TO THIS SITE AND PROJECT HAVE BEEN PAID.

NOTE:

1. PRODUCT SPECIFIC PRACTICES

MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:

A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL. B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND. C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.

D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES.

8. ALL EROSION CONTROL MEASURES AND DEVICES SHALL BE CHECKED DAILY.

## CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL NPDES REQUIREMENTS FOR THE CONSTRUCTION PROJECT.

BID DOCUMENTS -	- NOT FOR CONSTRUCTION						
PROJ. I DESIGN DRAWN PROJ. I DRAWN	PROJECT NAME: APRON PAVEMENT AND DRAINAGE REHABILITATION - PHASE 2	REVISION	RECORD		EXPI	2120 WW	
MGR.: MRJ NBY: BCF NBY: CJG DATE: MAY NG NUMBER: <b>9 OF</b> PROJ. NO.: 190358.00	FOR THE JACKSON COUNTY AIRPORT (JCA) CITY OF JEFFERSON, GEORGIA			PROFESSIONAL SI	GSWCC NO. 574 RATION DATE 04/	POWERS FERR' SUITE 100 ATLANTA, GA 303 (t)770-955-0333	
2020 24 D.AT	NPDES NOTES - SHEET 3	NO.	ESCRIPTION		6 14/2021	Y ROAD 339 4 8 1.COM	

![](_page_9_Figure_0.jpeg)

			SWCD: <u>Oconee River SWCD</u>
Project	Name: Ap	ron F	Pavement and Drainage Rehab - Ph. Address: 500 Sky
City/Co	unty: <u>Jeff</u>	erso	n / Jackson County Date on Plans: <u>De</u>
Name &	k email of	pers	son filling out checklist: <u>Brad Fermanich - bferma</u>
Plan Page #	Y/N		TO BE SHOWN ON ES&PC PI
10	Y	1	The applicable Erosion, Sedimentation and Pollution Control Pla
			of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Pla
7	Y	2	Level II certification number issued by the Commission, signature (Signature, seal and Level II number must be on each sheet pe
7	Y	3	The name and phone number of the 24-hour local contact response
7	Y	4	Provide the name, address, email address, and phone number
7		5	Note total and disturbed acreage of the project or phase under
6	Y	6	Provide the GPS locations of the beginning and end of the Infras decimal degrees.
6	Y	7	Initial date of the Plan and the dates of any revisions made to the
6		8	Description of the nature of construction activity.
6		q	Provide vicinity man showing site's relation to surrounding area
6		10	Identify the project receiving waters and describe all sensitive as
		10	wetlands, marshlands, etc. which may be affected.
6		11	Plan as stated on <b>Part IV page 21</b> of the permit.
6	Y	12	Design professional's certification statement and signature that th and comprehensive system of BMPs and sampling to meet perm
6	Y	13	Design professional certification statement and signature that the sampling as stated on Part IV.D.6.c.(3) page 37 of the permit a
6	Y	14	Clearly note the statement that "The design professional who prinitial sediment storage requirements, perimeter control BMPs, a in accordance with <b>Part IV.A.5 page 26</b> of the permit*
7	Υ	15	Clearly note the statement that "Non-exempt activities shall not b buffers as measured from the point of wrested vegetation or with from the Jurisdictional Determination Line without first acquiring the
7	Y	16	Provide a description of any buffer encroachments and indicate
6	Y	17	Clearly note the statement that "Amendments/revisions to the ES hydraulic component must be certified by the design professional
7	Y	18	Clearly note the statement that "Waste materials shall not be disc Section 404 permit."*
7	Y	19	Clearly note statement that "The escape of sediment from the site sediment control measures and practices prior to land disturbing
7	Y	20	Clearly note statement that "Erosion control measures will be ma Plan does not provide for effective erosion control, additional ero to control or treat the sediment source."
7	Y	21	Clearly note the statement "Any disturbed area left exposed for or temporary seeding."
7	Υ	22	Any construction activity which discharges storm water into an Ir of and within the same watershed as, any portion of an Biota Im permit. Include the completed Appendix 1 listing all the BMPs th to the Impaired Stream Segment.*
7	Υ	23	If a TMDL Implementation Plan for sediment has been finalized f above) at least six months prior to submittal of NOI, the ES&PC requirements included in the TMDL Implementation Plan.*
7	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, h at the construction site is prohibited.*
7	Y	25	Provide BMPs for the remediation of all petroleum spills and leal
	Y	26	Description of the measures that will be installed during the cons
,		20	will occur after construction operations have been completed.*

6

7

7

## y Harbor Drive, Jefferson, GA 30549 December 2019

anich@wkdickson.com

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST** 

INFRASTRUCTURE CONSTRUCTION PROJECTS

LAN

lan Checklist established by the Commission as of January 1

lan or the Plan will not be reviewed)

re and seal of the certified design professional.

ertaining to ES&PC Plan or the Plan will not be reviewed)

ponsible for erosion, sedimentation and pollution controls.

per of primary permittee.

construction.

astructure project. Give the Latitude and Longitude in

e Plan including the entity who requested the revisions.

as. Include designation of specific phase, if necessary. adjacent areas including streams, lakes, residential areas,

the site was visited prior to development of the ES&PC

the permittee's ES&PC Plan provides for an appropriate mit requirements as stated on **Part IV page 20** of the permit\* e permittee's ES&PC Plan provides for representative

as applicable.\*

repared the ES&PC Plan is to inspect the installation of the and sediment basins within 7 days after installation."

be conducted within the 25 or 50-foot undisturbed stream thin 25-feet of the coastal marshland buffer as measured

the necessary variances and permits." e whether a buffer variance is required.

S&PC Plan which have a significant effect on BMPs with a

charged to waters of the State, except as authorized by a

ite shall be prevented by the installation of erosion and g activities."

naintained at all times. If full implementation of the approved rosion and sediment control measures shall be implemented

r a period greater than 14 days shall be stabilized with mulch

Impaired Stream Segment, or within 1 linear mile upstream npaired Stream Segment must comply with Part III. C. of the that will be used for those areas of the site which discharge

for the Impaired Stream Segment (identified in item 22 Plan must address any site-specific conditions or

hoppers and the rear of the vehicles. Washout of the drum

aks.

struction process to control pollutants in storm water that

7	Y
7	Y
7	Y
7	Y
7	Y

Y

Y

![](_page_9_Figure_42.jpeg)

29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

- 30 Provide complete requirements of inspections and record keeping by the primary permittee.\*
- 31 Provide complete requirements of sampling frequency and reporting of sampling results.\*
- 32 Provide complete details for retention of records as per Part IV.F. of the permit\*
- 7-8 Y 33 Description of analytical methods to be used to collect and analyze the samples from each location.\*
  - 34 Appendix B rationale for NTU values at all outfall sampling points where applicable.\*

11 Y 35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable.\*

![](_page_9_Picture_50.jpeg)

7

8

8	Y	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial
		sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final
		BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs,
		intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single
		phase.*

	11-13	B L	Y
	9		N/
Γ	9	ר ר	N/

11 Y

9,11 Y 11-13 Y

Y

Y

Y

11

9

14

![](_page_9_Figure_54.jpeg)

48 The limits of disturbance for each phase of construction.

49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan. 11-13 Y 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and

![](_page_9_Figure_58.jpeg)

![](_page_9_Figure_59.jpeg)

14-16 Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia. 15 Y 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and

Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

\*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the \* checklist items would be N/A.

Effective January 1, 2019

<b>BID DOCUMENTS -</b>	NOT FOR CONSTRUCTION						
PROJ. DESIG DRAWI PROJ. DRAWI DRAWI WKD 20	PROJECT NAME: APRON PAVEMENT AND DRAINAGE REHABILITATION - PHASE 2	REVIS	ON RECORD		EXP	2120 w	Commu
MGR.: MRJ N BY: BCF N BY: CJG DATE: MAY 20 NG NUMBER: <b>0 OF 2</b> PROJ. NO.: 0190358.00.4	FOR THE JACKSON COUNTY AIRPORT (JCA) CITY OF JEFFERSON, GEORGIA DRAWING TITLE:			PROFESSIONAL SEA	IRATION DATE 04/14/	0 POWERS FERRY F SUITE 100 ATLANTA, GA 3033 (t)770-955-5574 (f)770-955-0338 WW.WKDICKSON.C	WK DICKSC nity infrastructure cor
20 <b>4</b> AT	GAR100002 CHECKLIST	NO.	DESCRIPTION		2021	ROAD 9 OM	<b>DN</b> nsultants

![](_page_10_Figure_0.jpeg)

50 0 50 100 50 0 50 100 SCALE: 1" = 50' 734 HANGER ROAD		<image/> <section-header><section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header></section-header>
Sd1 COMPOST FILTER SOCK, PHASE 3 (37 LF) CONTRACTOR'S STAGING AREA 20'W x 242'L (PHASE 3)		RECORD
<ul> <li>SEDIMENT / EROSION CONTROL NOTES</li> <li>TOTAL DISTURBED AREA = 4.12 ACRES PHASE 1 DISTURBED AREA = 4.12 ACRES</li> <li>EROSION CONTROL PRACTICES MUST COMPLY WITH THE STANDARDS AND SPECIFICATIONS IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (GREEN BOOK), LATEST VERSION.</li> <li>ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSPECTED PRIOR TO ANY LAND DISTURBANCE OR GRADING ON SITE.</li> <li>IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5 TO 1 AND WITH HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.</li> <li>WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.</li> <li>MULCH WILL BE USED AS A TEMPORARY COVER (DS1). ON SLOPES GREATER THAN 2:1 MULCH IE USED WILL BE ANCHORED</li> </ul>		REVISION NO. DATE DE LA COMUNICICA DE LA
<ul> <li>SICEATER THAN 2.1, MIDENT, IF USED, WILL BE ANDIORED.</li> <li>SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF (1/2) THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.</li> <li>PROPER INSTALLATION OF ALL DRAINAGE STRUCTURES AND SEDIMENT CONTROL DEVICES IS THE RESPONSIBILITY OF THE GENERAL AND/OR GRADING CONTRACTOR. THESE STRUCTURES SHOULD BE CONSTRUCTED OF SUITABLE MATERIALS AND IN ACCORDANCE WITH PROFESSIONAL STANDARDS AND PRACTICES FOR STRUCTURES OF THIS TYPE. THE MEASURES SHOWN ARE RECOMMENDATIONS BASED ON THE INFORMATION PROVIDED. IF AT ANY TIME THESE MEASURES ARE JUDGED TO BE INADEQUATE TO CONTROL SILTATION OR RUNOFF, ADDITIONAL MEASURES SHOULD BE PROVIDED TO INSURE PROPER CONTROL. THE GRADING AND/OR GENERAL CONTRACTOR IS URGED TO CONTACT THE GOVERNING MUNICIPALITY FOR ASSISTANCE IF EITHER THE INSTALLATION OR FUNCTION OF THESE MEASURES IS UNCERTAIN. UNDER NO CIRCUMSTANCE WILL SEDIMENT OR SILT-LADEN RUNOFF BE ALLOWED ONTO ADJACENT PROPERTIES.</li> <li>SEE SHEETS 14 TO 16 FOR EROSION CONTROL DETAILS AND SEDIMENT STORAGE CALCULATIONS. SEE SHEET 15 FOR DETAILS AND NOTES ON Ds1 MULCHING, AND Ds3 PERMANENT SEEDING.</li> <li>SEE SHEET 14 FOR EROSION CONTROL BMP LEGEND.</li> </ul>	UCTION	ID DRAINAGE REHABILITATION - PHASE 2 FOR THE IN COUNTY AIRPORT (JCA) IF JEFFERSON, GEORGIA AN PHASE 1 - CLEARING & GRUBBING
<ul> <li>ALL NON-PAVED AREAS WITHIN THE LIMITS OF DISTURBANCE TO BE TOPSOILED AND STRIPPED AS INDICATED ON SHEET 4. CONTRACTOR TO STOCKPILE ALL TOPSOIL MATERIAL IN THE STAGING AREA OR OTHER SUITABLE LOCATION APPROVED BY THE OWNER AND HAUL ALL DEBRIS OFF-SITE TO A SUITABLE DISPOSAL AREA.</li> <li>PHASE 1 SEQUENCE OF CONSTRUCTION ACTIVITY:         <ul> <li>INSTALL TEMPORARY CONSTRUCTION EXIT Co.</li> <li>INSTALL TEMPORARY COMPOST FILTER SOCK Sd1 AND FILTER SOCK</li> </ul> </li> </ul>	NOT FOR CONSTRU	PROJECT NAME: APRON PAVEMENT ANE JACKSON CITY OF DRAWING TITLE: BMP LOCATION PLA
<ol> <li>DITCH CHECKS Sd1.</li> <li>INSTALL SLOTTED BOARD DAM WITH STONE RETROFITS Rt-B.</li> <li>INSTALL STONE CHECK DAMS Cd-S AND EXCAVATED INLET SEDIMENT TRAP Sd2-F.</li> <li>REMOVE EXISTING SITE FEATURES AS INDICATED ON THE DEMOLITION PLAN ON SHEET 4, INCLUDING EXISTING PAVED AREAS, STORM PIPE, STORM STRUCTURES, AND ELECTRICAL UTILITIES AS NOTED.</li> <li>STRIP SITE FOR TOPSOILING WITHIN LIMITS OF DISTURBANCE AS SHOWN ON SHEET 4.</li> <li>PLACE Ds1 TEMPORARY MULCH ON ALL DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE.</li> <li>MAINTAIN ALL EROSION CONTROL BMPS AND CLEAN-OUT SEDIMENT FROM SEDIMENT STORAGE DEVICES AS NECESSARY AND AS PER CLEAN-OUT REQUIREMENTS ON SHEET 16.</li> </ol>	<b>3ID DOCUMENTS - </b>	PROJ. MGR.:MRJDESIGN BY:BCFDRAWN BY:CJGPROJ. DATE:MAY 2020DRAWING NUMBER:11 OF 24WKD PROJ. NO.:20190358.00.AT

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AN 10. SE	ID NOTES ON Ds1 MULCHING, AND Ds3 PERMANENT SEEDING. E SHEET 14 FOR EROSION CONTROL BMP LEGEND.		H H H
PHASE 2	SEQUENCE OF CONSTRUCTION ACTIVITY:	Z	NA(
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2. INS SE	STALL TEMPORARY STONE CHECK DAMS Cd-S, TEMPORARY INLET	<u>S</u>	
ST	ONE RETROFIT Rt-B, TEMPORARY FILTER SOCK DITCH CHECKS Sd1,	<u>E</u>	ANI
AS	INDICATED.	ST	
BE	REMOVED FROM ITS LOCATION AS SHOWN ON PHASE 1 EROSION	Z	NEI
CC DE	MOLISHED. Rt-B #2 TO BE REINSTALLED IN NEW LOCATION AS	ŭ	NE Ni
SH PR	OWN ON THIS PLAN IMMEDIATELY AFTER INSTALLATION OF OPOSED STORM STRUCTURE A6. PAYMENT FOR REMOVAL AND	ЩЩ Ш	PA PA
RE SP	LOCATION OF RT-B #2 SHALL BE INCIDENTAL TO THE C-102 ECIFICATION PAY ITEM FOR "TEMPORARY SLOTTED BOARD DAM	[ 년	<b>ON</b>
WI	TH STONE RETROFIT, INCLUDING INSTALLATION, MAINTENANCE, AND		
4. TE	MPORARY FILTER SOCK DITCH CHECKS TO BE REMOVED FROM		
INT	TRACT HASE LOCATIONS ON SHEET THAND RELOCATED TO TERMEDIATE LOCATIONS SHOWN ON THIS SHEET AS PROPOSED		
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C-1 SO	102 SPECIFICATION PAY ITEM FOR "TEMPORARY COMPOST FILTER ICK, INCLUDING INSTALLATION, MAINTENANCE, AND REMOVAL".	<b>乙</b>    山	DRAWN B
5. PA' AN	VE ALL PROPOSED ASPHALT AREAS AFTER SITE HAS BEEN GRADED D PROPOSED STORM DRAINAGE NETWORK IS INSTALLED.	N	DRAWING
6. PL/	ACE Ds1 MULCH AND Tac TACKIFIERS ON ALL DISTURBED AREAS IF		12
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ι. ΜΑ FR	OM SEDIMENT STORAGE DEVICES AS NECESSARY AND AS PER		

CLEAN-OUT REQUIREMENTS ON SHEET 16.

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10. SEE SHEET 14 FOR EROSION CONTROL BMP LEGEND.	01	APR	BM
PHASE 3 SEQUENCE OF CONSTRUCTION ACTIVITY:	Ž		
. PLACE Ds3 PERMANENT GRASSING ON ALL DISTURBED AREAS AS SOON AS FINISHED GRADE HAS BEEN ACHIEVED.	TS	PROJ. MGR.: M DESIGN BY: E	IRJ ICF
2. MAINTAIN ALL EROSION CONTROL BMPS AND CLEAN-OUT SEDIMENT FROM SEDIMENT STORAGE DEVICES AS NECESSARY AND AS PER		DRAWN BY: C PROJ. DATE: M	JG 1AY 2020
CLEAN-OUT REQUIREMENTS ON SHEET 16 UNTIL ALL DISTURBED AREAS HAVE ACHIEVED FULL STABILIZATION. 3. ONCE ALL DISTURBED AREAS HAVE ACHIEVED FULL STABILIZATION	N N		
CONTRACTOR TO REMOVE Sd2-F INLET SEDIMENT TRAPS, Cd-S STONE CHECK DAMS, Rt-B RETROFITS, AND Co CONSTRUCTION EXIT.			· <b>∠4</b>
CONTRACTOR TO CUT OPEN ALL Sd1 COMPOST FILTER SOCK, SPREAD COMPOST EVENLY ACROSS ANY STABILIZED AREAS IN THE VICINITY OF THE FILTER SOCK, AND REMOVE ANY REMAINING FILTER FARENCE		20190358	3.00.AT
THE FILTER SOUR, AND REMOVE ANY REMAINING FILTER FABRIC.			

# GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

DESCRIPTION

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

## STRUCTURAL PRACTICES

CODE PRACTICE DETAIL MAP

Cd	CHECKDAM		J	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION		11	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT		(LABEL)	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		Cr	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		Dn1 (LABEL)	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		Dn2 (LABEL)	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING	U		A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION		and the second	Rock filter baskets which are hand—placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Gr (LABEL)	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LE VEL 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		J	A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL		Re	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		(LABEL)	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		(INDICATE TYPE)	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	v v v v v v v v v v v v v v v v v v v		An impounding drea 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		Sd3	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		(LABEL)	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	SYMBOL	
				-
Sr	TEMPORARY STREAM CROSSING		Sr (LABEL)	A temporary structure pro from damag equipment.
St	STORMDRAIN OUTLET PROTECTION		St)	A paved or s at the outlet preventing er runoff.
Su	SURFACE ROUGHENING		HSUH	A rough soil depressions o roughened co
Tc	TURBIDITY CURTAIN		Te	A floating or the water (it floating boom
Тр	TOPSOILING		(SHOW STRIPING AND STORAGE AREAS)	The practice soil, storing disturbed are construction
Tr		$\bigcirc$	(DENOTE TREE CENTERS)	To protect de construction
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or veg diversions, te structures.

## **VEGETATIVE PRACTICES**

CODE	PRACTICE	DETAIL	MAP SYMBOL	
Bf	BUFFER ZONE		Bf (LABEL)	Strip of undis enhanced or the reestablis an area of d
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	Jeres and a second	Cs	Planting vege artificially con
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing t disturbed area a suitable gro erosion retarc
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a with fast grow areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	4 5 G	Ds3	Establishing a such as trees legumes on d
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent highly erodabl
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling su dust on cons similar sites.
FI-Co	FLOCCULANTS AND COAGULANTS		FI-Co	Substance for solids/liquid s particles in s
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of re materials to streambanks, repair small
Ss	SLOPE STABILIZATION		Ss	A protective and establish vegetation on channels.
Tac	TACKIFIERS AND BINDERS		Тас	Substance us mulch by cau bind together

![](_page_13_Figure_10.jpeg)

DEFINITION: A TEMPORARY COVER OF PLANT RESIDUES APPLIED TO THE SOIL SURFACE FOR A PERIOD OF SIX MONTHS OR LESS WHEN SEEDING IS NOT PRACTICAL. REQUIREMENT FOR REGULATORY COMPLIANCE: MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS. PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED. MULCHING MATERIALS: 1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION. 2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS. 3. CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR  $\frac{1}{4}$  GALLON PER SQ. YD.). 4. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCK PILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED. MULCHING APPLICATION REQUIREMENTS IDEPTH MATERIAL RATE STRAW OR HAY 2 1/2 TON/ACRE 2" TO 4" WOOD WASTE, CHIPS, TO 9 TON/ACRE 2" TO 3" SAWDUST, BARK 1200 GAL./ACRE CUTBACK ASPHALT 1/4 GAL./SQ.YD POLYETHYLENE FILM SECURE WITH SOI ANCHORS, WEIGHT GEOTEXTILES, JUTE SEE MANUFACTURER'S MATTING, NETTING, ETC. RECOMMENDATIONS DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) Ds1

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

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

SPECIES.	SEEDING	RATES.	AND	PI ANTING	DATES	
	JEEDINO	RAILS,			DAILS	

PERMANENT PLANT S

SPECIES

TEMPORARY COVER WITH OTHER PERENNIALS

BAHIA, PENSACOLA ALONE OR WITH

BAHIA, WILMINGTON ALONE OR WITH

TEMPORARY COVER WITH OTHER PERENNIALS

BERMUDA, COMMON (HULLED SEED)

BERMUDA, COMMON (UNHULLED SEED)

BERMUDA, SPRIGS COMMON LAWN AND FORAGE HYBRIDS

FESCUE, TALL

SCARIFIED

UNSCARIFIED

SCARIFIED

UNSCARIFIED

PLANTS.

LESPEDEZA, SHRUB (LESPEDEZA BICOLOR OR LESPEDEZA THUMBERGII)

LOVE GRASS, WEEPING

WITH OTHER PERENNIALS

AIDENCANE SPRIGS

PANICGRASS, ATLANTIC

REED CANARY GRASS

WITH OTHER PERENNIALS

SEASON

SUMMER

COOL

WINTER

Ds3

OWFR. AZTE MAXIMILLIAN

SWITCHGRASS

ALONE WITH OTHER PERENNIALS

WITH TEMPORARY COVER WITH OTHER PERENNIALS

CROWN VETCH WITH WINTER ANNUALS

OR COOL SEASON GRASSES

WITH OTHER PERENNIALS

LESPEDEZA, SERICEA

SEED-BEARING HAY

LESPEDEZA, AMBRO VIRGATA OR APPALOW

RATES PER	RATES PER		ING DATES BY F		REMARKS
ACRE	1,000 sq. ft.	M – L	P	C	
) Lbs.	1.4 Lbs.	_	4/1-5/31	3/1-5/31	LOW GROWING; SOD PRODUCING; MILL SPREAD INTO BERMUDA
) Lbs.	0.7 Lbs.		.,		LAWNS.
) Lbs.	1.4 Lbs.	3/15-5/31	3/1-5/31	-	SAME AS ABOVE.
) Lbs.	0.7 Lbs.				
					OLICK COVER LOW CROWINCE SOD
) Lbs.	0.2 Lbs.	-	4/1-5/31	3/1-5/31	FORMING; NEEDS FULL SUN.
Lbs.	0.1 Lbs.				
		_	10/15-2/28	11/1-1/31	
) Lbs. Lbs.	0.2 Lbs. 0.1 Lbs.		10/10 2/20		PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
) cu. ft.	0.9 cu. ft.				1 cu. ft. = 650 SPRIGS
SOD PLUG	5 3' X 3'	4/15-6/15	4/1-6/15	4/1-5/31	1 bu. = 1.25 cu. ft. OR 800
000 1 2000					
	07.16-	9/1-10/15	10/15-2/28	_	15 Lbs. RYE; INOCULATE SEED;
LDS.	0.5 Lbs.				PLANT UNLT NORTH OF ATLANTA.
		3/1-4/1	8/15-10/15		MIX WITH PERENNIAL LESPEDEZAS
) Lbs. ) Lbs.	1.1 Lbs.   0.7 Lbs.	OR	OR	-	OR CROWN VETCH; NOT FOR DROUGHTY SOILS OR HEAVY USE
		8/15-9/30	2/15-4/15		AREAS.
					WIDELY ADAPTED AND LOW
N 1 K -		A /4 E /74	7 /15 5 /71	7/4 5/45	ESTABLISH; INOCULATE SEED WITH
J LDS.	1.4 LDS.	4/1-5/31	3/15-5/31	3/1-5/15	EL INOCULATE; MIX WITH WEEPING LOVEGRASS, COMMON
					BERMUDA, BAHIA OR TALL FESCUE.
5 Lbs.	1.7 Lbs.	9/1-2/28	9/1-2/28	9/1-2/28	MIX WITH TALL FESCUE OR WINTER
TONS	138 lbs	10/1-2/1	10/1-2/28	9/15_1/15	CUT WHEN SEED IS MATURE BUT
long	100 203.		10/1 2/20		BEFORE IT SHATTERS. ADD TALL
					FESCUE OF WINTER ANNUALS.
					SPREADING GROWTH WITH HEIGHT
)   he	14 lbs	4/1-5/31	3/15-5/31	3/1-5/15	AREAS; SLOW TO DEVELOP GOOD
			0,10 0,01	371-3713	LOVEGRASS, COMMON BERMUDA,
					ANNUALS; DO NOT MIX WITH
ō Lbs.	1.7 Lbs.	9/1-2/28	9/1-2/28	9/1-2/28	SEED WITH EL INOCULANT.
3' X 3'	SPACING	11/1-3/31	11/1-3/31	11/15-2/28	PLANT IN SMALL CLUMPS FOR WILDLIFE FOOD AND COVER.
					QUICK COVER; DROUGHT TOLERANT;
Lbs.	0.1 Lbs.	4/1-5/31	3/15-5/31	3/1-5/31	LESPEDEZA ON ROAD-BANKS AND
LDS.	0.00 Ebs.				OTHER STEEP SLOPES; SHORT LIVED.
2' X 3'	SPACING	2/1-3/31	2/1-3/31	2/1-3/31	FOR VERY WET SITES SUCH AS
2 ~ 0		-,,			SPRIGS LOCALLY.
					GROWS WELL ON COASTAL SAND
) Lbs.	0.5 Lbs.	-	3/1-4/30	3/1-4/30	LESPEDEZA BUT NOT ON SAND
					DUNES.
					CROWS SIMILAR TO TALL FESCUE
) Lbs.	1.1 Lbs.	4/1-5/31	3/15-5/31	3/1-5/31	FOR WET SITES.
) Lbs.	0.7 Lbs.				
) Lbs.	0.2 Lbs.	4/15-5/31	4/15-5/31	4/15-5/31	MIX WITH WEEPING LOVEGRASS
					GRASSES OR LEGUMES.
) Lbs.	0.4 Lbs.	4/1-5/31	4/1-5/31	4/1-5/31	FOR STREAMBANKS PLANTINGS, DRAINAGE DITCHES, AND WET
	1	1		1	AREAS.

1. RATES FOR BROADCASTED SEED. IF A SEED DRILL IS USED. REDUCE THE RATE BY ONE-HALF. 2. PLS IS AN ABBREVIATION FOR PURE LIVE SEED. REFER TO THE GLOSSARY FOR AN EXPLANATION OF THIS TERM. 3. REGIONS ARE DEFINED IN THE " MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA."

FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

·				
TYPES OR SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATES (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 & LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	0–50 – –
WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30
WARM SEASON GRASSES & LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	50 - -

\*AGRICULTURAL LIME IS REQUIRED AT THE RATE OF 1 TO 2 TONS PER ACRE UNLESS SOIL TEST INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN 6 MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED.

PERMANENT SEEDING SCHEDULE

DATES	TYPE OF GRASS	RATES (LBS./ACRE)
MAY 15 – AUG. 15	BERMUDA, COMMON (HULLED SEED)	10
AUG. 16 – NOV. 1 MAR. 15 – MAY 14	FESCUE (KY 31, TALL)	50
OCT. 1 — MAR. 14	BERMUDA, COMMON (UNHULLED SEED)	10

COVER SEEDED AREAS WITH LIGHT LAYER OF WHEATSTRAW MULCH (2TONS/ACRE). CONTRACTOR TO PROTECT ALL DISTURBED AREAS BY TEMPORARY RESEEDING UNTIL PERMANENT GROUND COVER IS ESTABLISHED A MAXIMUM OF 3 WEEKS AFTER GRADING OPERATIONS ARE COMPLETE IN AREAS. SIDE SLOPES SHALL BE HYDROSEEDED IN ACCORDANCE WITH SECTION 700 - GRASSING OF THE DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA STANDARD SPECIFICATIONS CONSTRUCTION OF ROADS AND BRIDGES 2001 EDITION OR GA. D.O.T. QPL-25 LIST.

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

VEGETATIVE PLAN:

MULCH: 2 TONS/AC

SEED: COMMON BERMUDA AT 10 LB/AC, AND

LIME: 1-2 TONS/AC, BASED ON SOIL TEST

FERTILIZER: 6-12-12 AT 1,500 LB/AC

ANNUAL RYE GRASS AT 40 LB/AC.

![](_page_14_Figure_13.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_1.jpeg)

![](_page_15_Figure_2.jpeg)

Provided	Sediment storage	ean-
Storage Vol	length upstream	eight
of Sd1 (cy)	of Sd1 (ft)	:)
2.7	87.7	5 <mark>0</mark>
2.7	87.7	50
2.7	87.7	50
2.7	87.7	50
2.7	87.7	50
2.7	87.7	50
27	97.7	0

IT Rt	EXCAVATED INLET SEDIMENT TRAP Sd2		
LATIONS HEET)	(SEE CALCULATIONS ON THIS SHEET)		
TOTAL VOLUME (CY)	# OF DEVICES	TOTAL VOLUME (CY)	
287	1	39	

![](_page_16_Figure_0.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_17_Figure_2.jpeg)

![](_page_18_Figure_0.jpeg)

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DRAW

![](_page_19_Figure_0.jpeg)

![](_page_20_Figure_0.jpeg)

# SLOTTED DRAIN GAGE REQUIREMENTS

DRAIN	2 1/2"	GRATE
DIA (in.)	ASPHALT PAVEMENT	CONCRETE PAVEMENT
12	16	16
15	16	16
18	14	16
21	10	12
24		10
30	2	2
36	2	2

- (1) INSTALLATION MUST CONFORM TO STANDARD DETAILS (DRAWING NO. 1008607C) USING 750 psi MINIMUM HIGH
- REQUIRES REINFORCED CONCRETE PAVEMENT OR A

![](_page_20_Figure_6.jpeg)

![](_page_20_Figure_7.jpeg)

![](_page_20_Figure_8.jpeg)

![](_page_20_Figure_12.jpeg)

![](_page_20_Picture_15.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_21_Figure_1.jpeg)

![](_page_21_Figure_2.jpeg)

		(16)
	EX. AIRCRAI	PHASE 2 PR WIDE REF TNO-TAXI P.
EX. ASPHALT EAST APRON		EX. LIGHT — POLE, TYP.
- · TOFA	TOFA	TOFA T
- — TSA —	— — TSA — — TSA	4 — — <i>TSA</i>
	ROFA	

		1010002.01	2100000.10
	2	1518038.68	2480981.67
	3	1518031.62	2480993.93
	4	1518028.88	2480994.67
	5	1518033.96	2481012.96
	6	1518383.75	2480915.82
	7	1518412.23	2480898.76
	8	1518421.03	2480889.55
	9	1518438.37	2480879.24
	10	1518589.77	2480838.35
	11	1518649.53	2480832.79
	12	1518650.94	2480789.68
	13	1518612.21	2480806.39
	14	1518496.76	2480837.57
	15	1518462.01	2480841.23
	16	1518366.93	2480488.90
	17	1518284.41	2480513.37
	18	1518261.41	2480511.35
	19	1518249.65	2480514.52
	20	1518244.20	2480515.56
	21	1518185.28	2480522.40
	22	1518177.85	2480523.72
:54 PM	23	1518172.04	2480513.96
2020 2:17	24	1518143.19	2480523.66
CH, 5/18/	25	1518145.80	2480533.29
FERMAN	26	1518086.63	2480551.17
AN.dwg, E	27	1518083.13	2480552.04
SKING PL	28	1518011.50	2480566.36
NG & MAF	29	1518006.04	2480567.88
	30	1517991.21	2480573.27
0358_C_S	31	1518004.77	2480622.05
Set/2019	32	1518058.74	2480607.05
ADD\Plan	33	1518146.35	2480927.65
b, Ph. 2\C	34	1518088.39	2480943.69
age Reha	35	1518263.32	2480894.51
nt & Drain	36	1518210.21	2480908.82
Apron Pvr	37	1518123.85	2480588.24
5800AT - /	38	1518176.96	2480573.94
ie/201903	39	1518385.80	2480861.28
from Hom	40	1518339.27	2480873.84
top/Work	41	1518256.35	2480566.57
nich/Desk	42	1518302.69	2480554.06
s\bfermar	43	1517931.90	2480590.03
H: C:\User	44	1518000.96	2480623.07

![](_page_22_Figure_0.jpeg)

ASPHALT ENT H EXISTING GRADE. CLEAN EXISTING CRETE SURFACE PRIOR TO APPLICATION OF SEALANT. RE-SEAL JOINT & TACK EXISTING ACE. (SEE CONSTRUCTION JOINT DETAIL 7/23) I FINISHED GRADE WWW.WKDICH GSWCC: NO	<b>KSON</b> cture consultants EERRY ROAD 100 5-5574 5-0338
H EXISTING GRADE. CLEAN EXISTING RETE SURFACE PRIOR TO APPLICATION OF SEALANT. RE-SEAL JOINT & TACK EXISTING ACE. (SEE CONSTRUCTION JOINT DETAIL 7/23) I FINISHED GRADE WWW.WKDICK GSWCC.NC	ERRY ROAD 100 5-5574 5-0338
I FINISHED GRADE	5-0338
	(SON.COM
EXPIRATION DAT	D. 5746 TE 04/14/2021
TION JOINT TO BE PLACED EVERYWHERE PROPOSED TE PAVEMENT ALONG THE EXISTING HANGAR DTTED DRAIN CONCRETE PAVEMENT. N JOINT IS INCIDENTAL TO GDOT 402 SPECIFICATION SEPARATE PAYMENT SHALL BE MADE.	
ASPHALT TION JOINT SCALE	
- SEALANT MATERIAL 1/4" - 3/8" BELOW SURFACE - FINISHED GRADE	DESCRIPTION
TRUCTION JOINT BETWEEN RETE/ASPHALT PAVEMENT	
ON JOINT DETAIL       TO SCALE	
RED PAVEMENT (ALL SECTIONS) DOT 402 BITUMINOUS SURFACE COURSE, 3" THICK, PLACED IN TWO 1.5" LIFTS DOT 402 DIT MO 1.5" LIFTS	DRAWING TITLE: PAVING DETAILS
AA P-209 CRUSHED AGGREGATE BASE COURSE, 6" THICK	MRJ BCF CJG
AA P-603 TACK COAT	MAY 2020 ER:
AA P-152 COMPACTED SUBGRADE UNDER PAVEMENT, MINIMUM 98% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) 20190358	<b>24</b> D.: 3.00.AT

![](_page_23_Figure_0.jpeg)

![](_page_23_Figure_1.jpeg)