

LIMESTONE VALLEY RESOURCE CONSERVATION & DEVELOPMENT COUNCIL PERMEABLE ASPHALT PARKING LOT

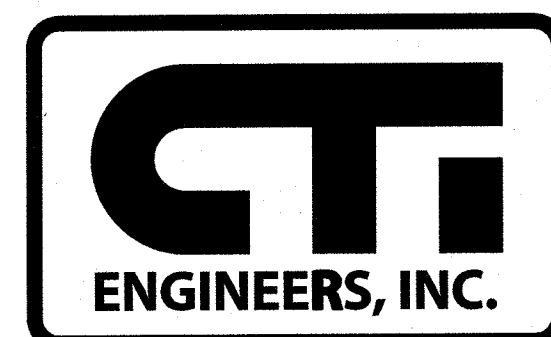
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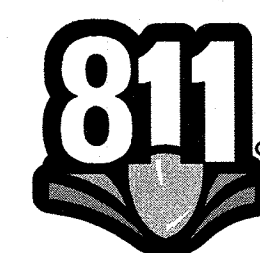
PERVIOUS PARKING LOT
LAND LOT 290
DISTURBED AREA = ±0.30 AC

24-HOUR CONTACT
STEPHEN BONTEKOE
TEL 423-421-2543
EMAIL stevebontekoe@gmail.com


PREPARED BY:



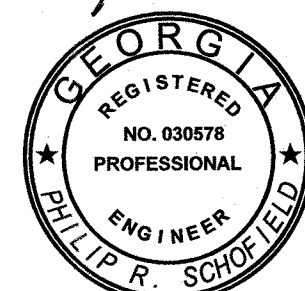
CTI ENGINEERS, INC.
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613



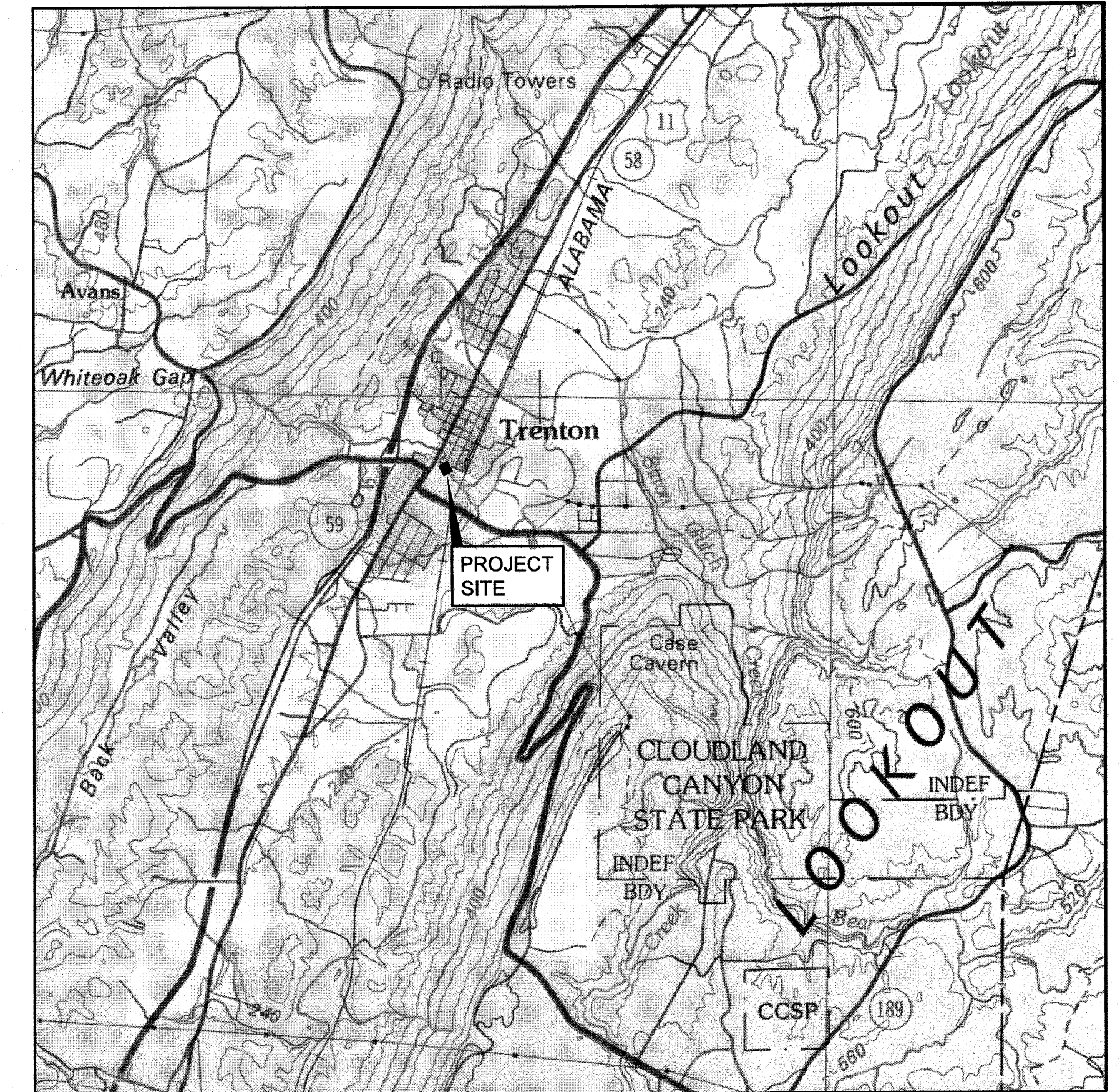
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PHILIP R. SCHOFIELD, P.E.
GEORGIA LICENSE NO. 030578
GSWCC CERTIFICATION NO. 934

PLAN DATE: APRIL 22, 2022
PROJECT NO. G22016



REVISION NO.	DATE	DESCRIPTION



LOCATION MAP
NOT TO SCALE

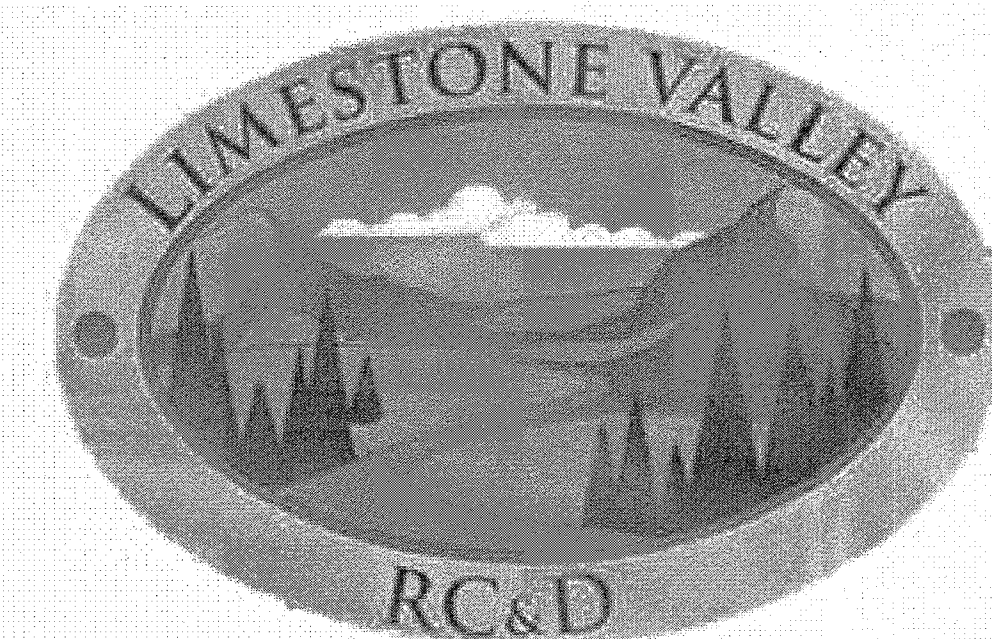
LIMESTONE VALLEY RESOURCE CONSERVATION & DEVELOPMENT COUNCIL

71 CASE AVENUE
TRENTON, GEORGIA 30752

STEPHEN BONTEKOE, EXECUTIVE DIRECTOR

BOARD

BUFFORD STEPHENS, DADE COUNTY
JOHN CASE, DADE COUNTY



PROJECT INFORMATION

PROJECT:
PERMEABLE PAVEMENT PARKING LOT ON PRICE STREET

CONTACT INFORMATION

OWNER:
LIMESTONE VALLEY RESOURCE
CONSERVATION & DEVELOPMENT COUNCIL
71 CASE AVENUE
TRENTON, GA 30752

OWNER'S REPRESENTATIVE:
STEPHEN BONTEKOE
EXECUTIVE DIRECTOR
TEL: 423-421-2543
EMAIL: stevebontekoe@gmail.com

CONSTRUCTION MANAGER:
TO BE DETERMINED

CIVIL ENGINEER:
PHILIP R. SCHOFIELD, P.E.
EMAIL: pschofield@ctiengr.com
CTI ENGINEERS, INC. (CORP. HEADQUARTERS)
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TENNESSEE 37402
TEL: 423-267-7613
FAX: 423-267-0603

243 N. HAMILTON STREET, #1
DALTON, GEORGIA 30720
GSWCC CERTIFICATION #: 934
TEL: 706-278-8110
FAX: 706-278-8112

24-HOUR CONTACT
STEPHEN BONTEKOE
TEL: 423-421-2543
EMAIL: stevebontekoe@gmail.com

SURVEY INFORMATION

SURVEY INFORMATION:
JOHN B. SHOBER
2263 YANKEE RD
CLOUDLAND, GA 30731
bshober@gmail.com
SURVEY DATE: AUGUST 17, 2020

BENCHMARK INFORMATION:
DATUM IS BASED ON MEAN SEA LEVEL (NAD83).

FLOOD MAP INFORMATION:
THE PROJECT DOES LIE WITHIN A FLOOD HAZARD AREA.

UTILITY INFORMATION:

- LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. IT IS POSSIBLE THAT SOME EXISTING FACILITIES ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITY FACILITIES LOCATED AND MARKED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING HIS BID SO THAT HE MAY DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS SHALL HAVE UPON THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT SHALL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY UTILITY ADJUSTMENTS.
- THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY CUSTOMERS AT LEAST 24 HOURS BEFORE INTERRUPTING THE CUSTOMERS' SERVICE. WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 4 HOURS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES, AND COMPENSATION, THEREFORE, SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FROM FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- ANY EXISTING STORM SEWER DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS RAPIDLY AS POSSIBLE AND THEN BE INSPECTED BY ITS RESPECTIVE OWNER. THE ENGINEER SHALL DETERMINE IF DAMAGE IS THE RESULT OF THE CONTRACTOR'S NEGLIGENCE OR OF AN UNAVOIDABLE CAUSE.
- THE UNDERGROUND UTILITIES SHOWN ON THE SURVEY HAVE BEEN LOCATED FROM FIELD INFORMATION, EXISTING DRAWINGS, OR BOTH. UNLESS NOTED OTHERWISE, NEITHER THE ENGINEER NOR THE SURVEYOR WARRANTS THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
- UNLESS NOTED OTHERWISE, NEITHER THE ENGINEER NOR THE SURVEYOR WARRANTS THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.

- UNLESS NOTED OTHERWISE, NEITHER THE ENGINEER NOR THE SURVEYOR HAS PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

DRAWING INFORMATION

- THE FOLLOWING ARE APPLICABLE TO *ALL* CIVIL DOCUMENTS:
- THE ISSUED PROJECT DRAWINGS ARE ONE COMPONENT OF THE CONSTRUCTION CONTRACT DOCUMENTS AND IN CONJUNCTION WITH THE GENERAL SPECIFICATIONS, DETAILS AND APPLICABLE CODES AND REGULATIONS ARE INTENDED TO COVER A COMPLETE PROJECT, READY TO USE. ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. CONTACT THE ENGINEER TO OBTAIN A COPY OF THE GENERAL SPECIFICATIONS.
 - WHERE A DETAIL SECTION, TYPICAL SECTION, OR A NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE ON THE PLANS.
 - EXISTING CONTOURS ARE AT TWO (2) FOOT INTERVALS.

CONTRACTOR RESPONSIBILITIES

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS INCLUDING UTILITIES (INVERTS, CONNECTIONS, MATERIALS, ETC.) AND DIMENSIONS WITHIN THE LIMITS OF WORK PRIOR TO THE START OF CONSTRUCTION
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NOTIFICATIONS AND LIAISONS WITH UTILITY COMPANIES DURING THE PROCESS OF LOCATING, RELOCATING, AND TYING INTO PUBLIC UTILITIES.
- PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THESE LIMITS SHALL BE ESTABLISHED ACCORDING TO THE PROCEDURES ESTABLISHED BY THE GOVERNING AUTHORITY. THE LOCATION OF AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR INSIDE THE APPROVED LIMITS OF DISTURBANCE.

DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER FOR ANY DEVIATIONS FROM THESE PLANS. DEVIATIONS FROM THESE PLANS AND ANY ASSOCIATED SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- THE CONTRACTOR SHALL USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND ANY ASSOCIATED SPECIFICATIONS. WHERE A CONFLICT OCCURS, THE STRICTEST DESIGN SHALL GOVERN. THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INFORM THE ENGINEER *IN WRITING* OF ANY SPECIFIC DEVIATIONS AND OBTAIN THE ENGINEER'S WRITTEN APPROVAL OF THE SPECIFIC DEVIATION *PRIOR TO THE CONSTRUCTION OF THE DEVIATION*.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- ALL CONSTRUCTION MUST CONFORM TO THE STANDARDS, SPECIFICATIONS, AND CODES OF THE GOVERNING MUNICIPALITIES.
- CONSTRUCTION SHALL MEET ALL STANDARDS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT.
- IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE UTILITIES TO THE ORIGINAL CONDITION AND QUALITY AS APPROVED BY THE OWNER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY.
- IF THE CONTRACTOR DAMAGES ANY EXISTING SITE FEATURES DURING CONSTRUCTION, HE SHALL AT HIS OWN EXPENSE, REPLACE OR REPAIR THE FEATURES TO ORIGINAL CONDITION AND QUALITY AS APPROVED BY THE OWNER OR THEIR DESIGNATED REPRESENTATIVE.
- SUFFICIENT BARRICADES, LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS IN ACCORDANCE WITH GOVERNING ORDINANCES MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC. SAID CONTROL DEVICES SHALL BE PER THE MANUAL OF TRAFFIC CONTROL DEVICES, M.U.T.C.D., CURRENT EDITION, AND SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- TRAFFIC CONTROLS AND OTHER WARNING DEVICES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY WORK ON CITY, COUNTY, OR GEORGIA DEPARTMENT OF TRANSPORTATION ROADS. THEY SHALL BE MAINTAINED THROUGH OUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL WORK.
- ALL WARNING DEVICES SHALL BE EITHER TYPE I BARRICADES OR DRUMS WITH WARNING LIGHTS ON EVERY OTHER DEVICE. THEY SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION, AND THE STANDARDS OF THE GOVERNING AUTHORITY FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
- FIRE DEPARTMENT ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR SHALL SHORE AND BRACE ALL EARTH, FORMS, CONCRETE, STEEL WOOD, AND MASONRY TO RESIST GRAVITY, EARTH, WIND, THERMAL, CONSTRUCTION, AND MISCELLANEOUS LOADS DURING CONSTRUCTION.
- ON-SITE BURIAL OF DEBRIS IS PROHIBITED.
- UNLESS OTHERWISE NOTED THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS TO THE ENGINEER FOR REVIEW. DESIGN DOCUMENTS SHALL NOT BE REPRODUCED AS SHOP DRAWINGS.

- IN CASE OF UNFORESEEN CONSTRUCTION COMPLICATIONS OR DISCREPANCIES, THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ENGINEER *IN WRITING*.
- ALL REQUIRED TESTING REPORTS SHALL BE AVAILABLE AT THE JOB SITE.
- AS-BUILT DRAWINGS OF ROADWAYS, STORM DRAINS, SANITARY SEWER AND WATER LINES, FIELD APPROVAL BY THE ENGINEER, AND ALL APPLICABLE BONDS ARE REQUIRED PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICATIONS, ALL FILL AREAS MUST BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL EXISTING BUILDINGS THROUGHOUT CONSTRUCTION UNLESS APPROVAL FOR SERVICE INTERRUPTION IS OBTAINED FROM THE OWNERS IN ADVANCE.
- CUT AND FILL SLOPES SHALL NOT EXCEED 2:1 H:V.

TRAFFIC

- THE CONTRACTOR SHALL MAINTAIN ALL BUSINESS, VEHICULAR, AND PEDESTRIAN ENTRANCES.
- PRIOR TO CLOSING THE ROAD TO THROUGH TRAFFIC, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED LOCAL AGENCIES ABOUT THE PROPOSED ROAD CLOSURE. THOSE TO BE CONTACTED SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: FIRE DEPARTMENT, POLICE DEPARTMENT, SHERIFF'S DEPARTMENT, POST OFFICE, TRAFFIC ENGINEER'S OFFICE, AND THE BOARD OF EDUCATION.

DEMOLITION INFORMATION

NOTIFICATIONS:

- THE CONTRACTOR SHALL NOTIFY THE OWNER AND COUNTY/CITY INSPECTOR(S) 24 HOURS PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

DISPOSAL GUIDELINES:

- ONLY ITEMS SPECIFICALLY NOTED TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE.
- REMOVE EXISTING PAVED AREAS AS SHOWN INCLUDING DRIVEWAYS, SIDEWALKS, PARKING AREAS, SERVICE AREAS, EQUIPMENT PADS, AND ALL MISCELLANEOUS PAVING.
- ALL DEBRIS RESULTING FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR. BACKFILL ALL TRENCHES AND EXCAVATIONS RESULTING FROM DEMOLITION.
- ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.

TREE PROTECTION GUIDELINES:

- PROTECT ALL EXISTING TREES AND ALL ITEMS TO BE TURNED OVER TO THE OWNER DURING DEMOLITION. TAKE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES. ANY EXISTING ITEMS TO BE TURNED OVER TO THE OWNER WHICH ARE DAMAGED DURING DEMOLITION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. TREES WHICH ARE DAMAGED WILL BE REPLACED OR REIMBURSED AT A RATE TO BE DETERMINED BY THE OWNER.

UTILITIES:

- PRIOR TO REMOVING OR ABANDONING ANY UTILITY THE CONTRACTOR SHALL VERIFY THAT NO SERVICE WILL BE TERMINATED. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY TERMINATION NOT SHOWN ON THE PLANS.
- ALL ABANDONED WATER LINES, STORM SEWER PIPE, SANITARY SEWER PIPES, GAS LINES, OR ANY OTHER ABANDONED UNDERGROUND UTILITY SHALL BE COMPLETELY REMOVED UNLESS NOTED OTHERWISE.

GRADING:

- GRADING AND COMPACTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. ANY EXCAVATIONS IN THESE AREAS SHALL BE BACKFILLED TO THE GRADES AS SHOWN ON THE PLANS.

GRADING AND EXCAVATION:

- FINISHED GRADES ON PROFILES ARE THE SAME AS FINISHED GRADES SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.
- THE COST OF REMOVAL AND DISPOSAL OF EXISTING FLEXIBLE PAVEMENT ENCOUNTERED IN THE PROGRESS OF THE WORK AND NOT COVERED IN OTHER BID ITEMS SHOWN ON PLANS, SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.
- WHEN SPECIFIED GRADING REQUIREMENTS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL GRADE ALL AREAS DISTURBED BY CONSTRUCTION, TO DRAIN AND TO MATCH THE EXISTING, ADJACENT GROUND.
- ON THE PROJECT, NEWLY GRADED, EARTH AREAS NOT TO BE PAVED, RIP-RAPPED, OR STABILIZED SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE CONTRACTOR IS TO DISPOSE OF, AT HIS OWN EXPENSE, ALL UNSUITABLE AND/OR SURPLUS, EXCAVATED MATERIAL.
- EXCAVATION ADJACENT TO EXISTING PAVEMENT SHALL BE MADE TO A NEAT SAW-CUT LINE.

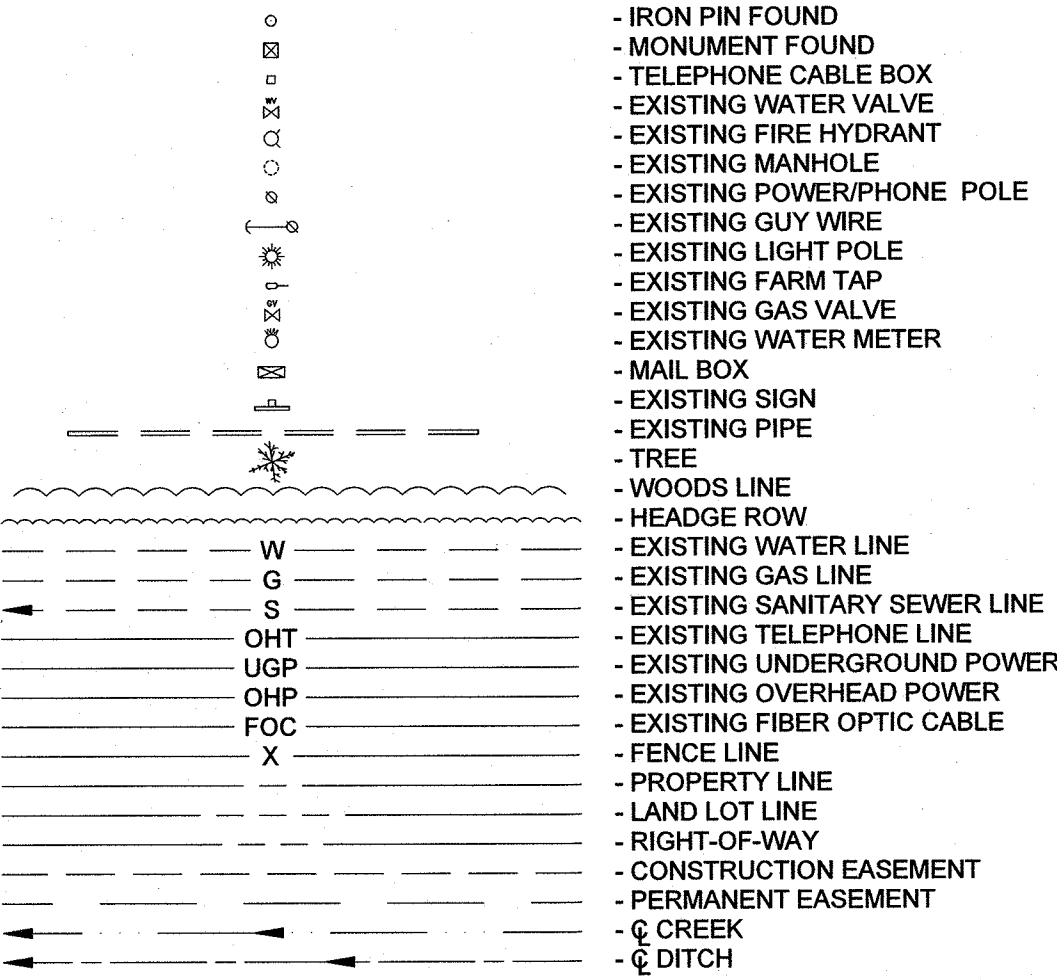
EROSION AND POLLUTION CONTROL

- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRECTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. THE CONTRACTOR SHALL NOT DISTURB MORE AREA THAN CAN BE STABILIZED AT THE END OF EACH WORK DAY.

- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS BEGIN. CLEARING AND GRUBBING SHALL BE HELD TO A MINIMUM WIDTH NECESSARY TO ACCOMMODATE THE CONSTRUCTION OF THE PROJECT. EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINIMIZE EROSION. BALED STRAW EROSION CHECKS AND SILT FENCES SHALL BE USED ALONG THE TOE OF FILL SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SILT-LADEN RUN-OFF MAY ENTER A STREAM OR ADJACENT PROPERTY.
- ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT'S ENTERING STREAMS. NO EXCAVATED MATERIAL SHALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION, APPROVED BY THE ENGINEER, ABOVE THE NORMAL HIGH WATER ELEVATION.
- THE CONTRACTOR MUST INSTALL EROSION AND SEDIMENT CONTROL AND MAINTAIN CONTROLS UNTIL THE ESTABLISHMENT OF FINAL VEGETATIVE COVER. THIS WILL INCLUDE SILT FENCING, HAY BALES, SLOPE STABILIZATION FABRIC, ETC. TO MINIMIZE SEDIMENT IN THE RUNOFF. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES.
- WITHIN THE UNIT PRICE FOR EACH EROSION CONTROL ITEM, THE CONTRACTOR IS EXPECTED TO MAINTAIN THE EROSION CONTROL MEASURES THROUGHOUT THE LENGTH OF THE CONTRACT AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND WATER CONTROL MEASURES (SUCH AS BERMS, SEDIMENT BASINS, SLOPE DRAINS, HAY BALES, AND SILT FENCES) AS REQUIRED BY LAW TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THESE TEMPORARY MEASURES SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL FEATURES TO ASSURE ECONOMICAL, EFFECTIVE, AND CONTINUOUS EROSION CONTROL THROUGHOUT THE PROJECT.
- DRAINAGE WATER FROM DEWATERING EXCAVATIONS THAT CONTAINS MUD OR SEDIMENT SHALL NOT BE DISCHARGED DIRECTLY INTO DITCHES OR CREEKS. FILTER SUCH WATER USING APPROPRIATE SEDIMENT TRAPS PRIOR TO DISCHARGE. NO SEPARATE PAYMENT WILL BE MADE FOR COMPLYING WITH THIS REQUIREMENT.

THIS PROJECT PROPOSES TO DISTURB LESS THAN 1-ACRE AND IS LESS THAN 200 LINEAR FEET AWAY FROM STATE WATERS. CONTRACTOR SHALL COMPLY WITH LOCAL ES&PC ORDINANCES.

PLAN & PROFILE LEGEND:



COLOR CODES
FOR
UTILITY LOCATING

RED	ELECTRIC
YELLOW	GAS-OIL
ORANGE	TELEPHONE/CATV
BLUE	WATER
GREEN	SEWER

IF YOU DIG GEORGIA

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It's The Law !

Utilities Protection Center, Inc.

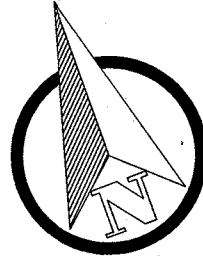
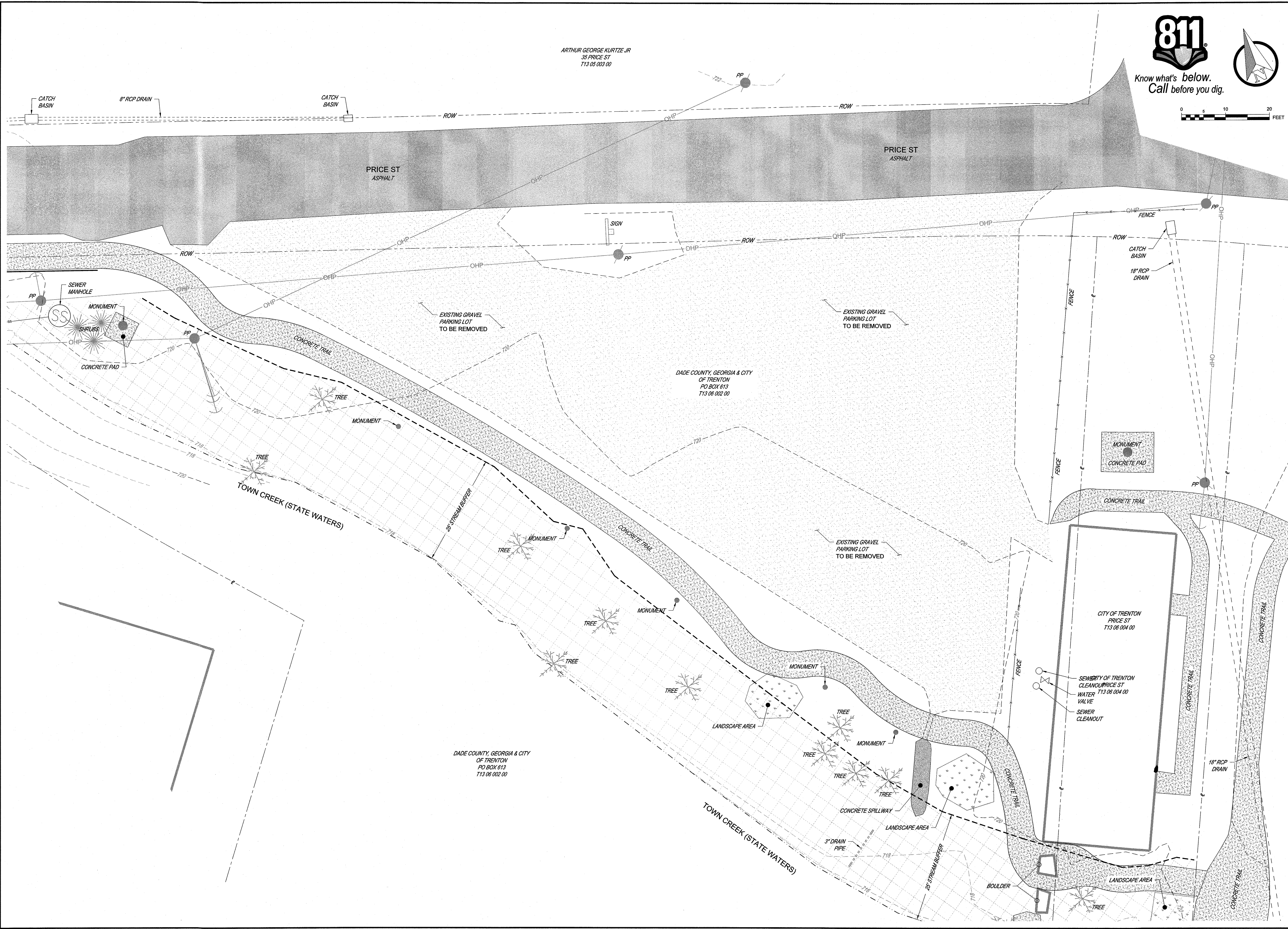


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DESIGN	RWJ	DRAWN	RWJ	CHECKED	PRS	APPROVED	PRS	NO.	DATE	BY	APPD
LIMESTONE VALLEY RC&D PERMEABLE ASPHALT PARKING LOT											
GENERAL NOTES											
CTIENGINEERS 1122 RIVERFRONT PARKWAY CHATTANOOGA, TN 37402 423-267-7613											
GSWCC 934											
JOB NO. G22016											
ISSUE DATE 4/22/2022											
DRAWING NO. G-201											

CTI PROJECT: G22016-01, DRAWING: G22016-01 C101-C401 OPTION 2-120204 (756099V1/08/16/22 11:39AM), LAYOUT: C101

DATE OF PRINT: 8/16/2022 11:43 AM



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FEET

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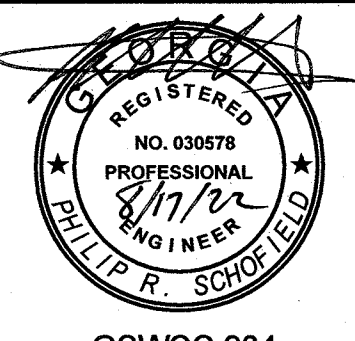
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NO.	DESCRIPTIONS	NO.	DESCRIPTIONS	DATE	BY	DATE	BY	DATE	BY

DESIGN	APPROVED
RWJ	PRS
RAW	PRS
CHECKED	APPROVED
PRS	PRS

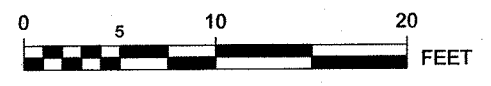
LIMESTONE VALLEY RC&D
PERMEABLE ASPHALT PARKING LOT

EXISTING PLAN



CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613


GSWCC 934

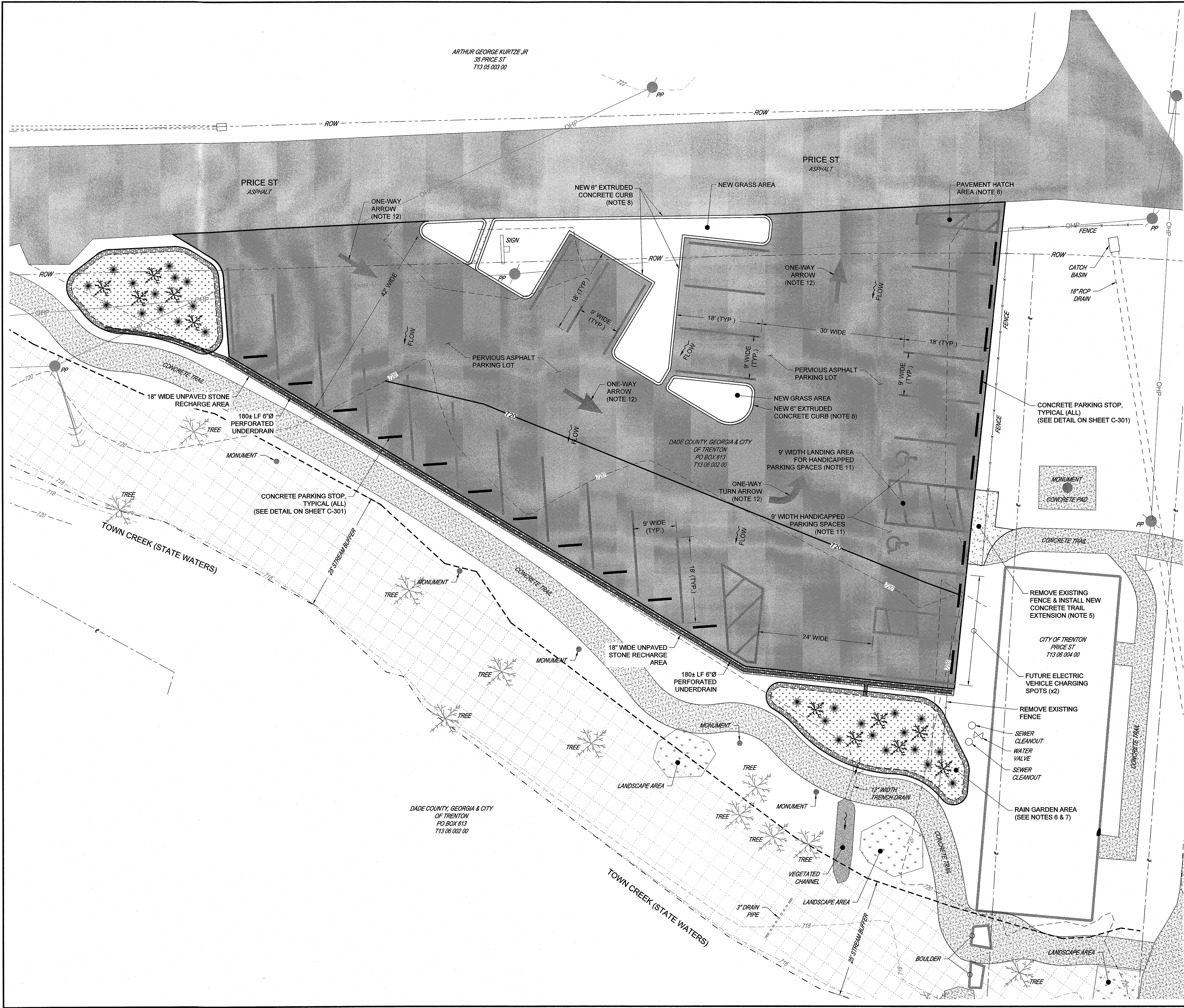
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C-101



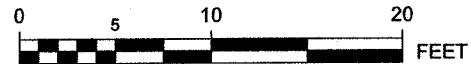
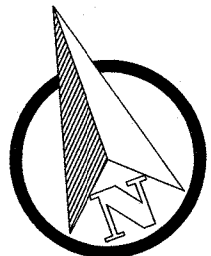
- STRIPING NOTES:**
9. SEE SHEET C-301 FOR STRIPING AND SIGNAGE PLAN.
10. THE CONTRACTOR SHALL SUBMIT A PAVEMENT STRIPING PLAN PRIOR TO INSTALLATION OF STRIPING.



GSWCC 934
JOB NO. G22016
ISSUE DATE 4/22/2022
DRAWING NO. C-201



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CONSTRUCTION NOTES:

- ALL EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATION AND ELEVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- SEE PARKING LOT SECTIONS SHEET C-301 FOR PVIOUS PAVEMENT SECTIONS AND DETAIL.
- PERVIOUS PAVEMENT SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE TOWARD UNPAVED STONE RECHARGE AREAS AROUND EDGE OF PARKING AREA. SLOPE OF PAVEMENT SHALL NOT EXCEED 2%.
- PERFORATED UNDERDRAIN SHALL BE PER GDOT STANDARD DETAIL 9029B. THE DRAINS SHALL DISCHARGE TO THE RAIN GARDEN AREA. SEE SHEET C-301 FOR PERFORATED UNDERDRAIN PROFILE.
- NEW CONCRETE TRAIL SHALL CONNECT NEW HANDICAP PARKING LANDING AREA TO THE EXISTING CONCRETE TRAIL. CONCRETE TRAIL SHALL BE INSTALLED PER DETAIL ON SHEET C-401.
- RAIN GARDEN AREA SHALL BE INSTALLED PER DETAIL ON SHEET C-401. OVERFLOW FROM RAIN GARDEN AREA SHALL BE DIRECTED THROUGH EXISTING TRENCH DRAIN UNDER WALKING TRAIL TOWARDS TOWN CREEK.
- SEE SHEET C-401 FOR DETAIL, VEGETATION PLAN, AND PLANT SPECIES TO BE USED FOR RAIN GARDEN AREAS.
- NEW EXTRUDED CONCRETE CURB SHALL BE INSTALLED PER DETAIL ON SHEET C-401.

STRIPING NOTES:

- PAVEMENT MARKINGS FOR HATCHED AREAS SHALL BE INSTALLED PER GDOT STANDARD DETAIL T-14.
- PARKING SPACES SHALL BE 9' IN WIDTH AND 18' IN LENGTH. STRIPING SHALL BE 5" WHITE TRAFFIC-RATED PAINT.
- HANDICAPPED PARKING SPACES SHALL BE INSTALLED PER DETAIL ON SHEET C-401.
- PAVEMENT MARKING ARROWS SHALL BE INSTALLED PER GDOT STANDARD DETAIL T-12B.
- THE CONTRACTOR SHALL SUBMIT A PAVEMENT STRIPING PLAN PRIOR TO INSTALLATION OF STRIPING.


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NO.	DESIGNATIONS	REVISIONS		
		DATE	BY	APPD

DESIGN	RWJ	DRWN	CHECKED	APPROVED

LIMESTONE VALLEY RC&D PERMEABLE ASPHALT PARKING LOT	
STRIPING & SIGNAGE PLAN	

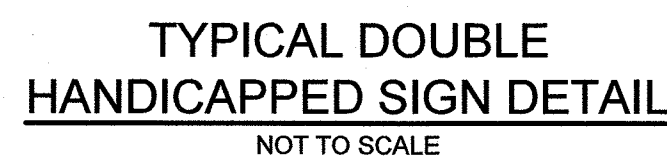

CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613


GSWCC 934

JOB NO. G22016
ISSUE DATE 4/22/2022
DRAWING NO. C-301



NOTE:
ALL HANDICAPPED PAVEMENT MARKINGS TO BE
INSTALLED PER GDOT STANDARD DETAIL T-18.




- C-401

ES&PC NOTES

- THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST CORRESPONDING TO THESE PLANS WAS ESTABLISHED BY THE COMMISSION AS OF JANUARY 1, 2022.
- THE LEVEL II CERTIFICATION NUMBER ISSUED BY THE COMMISSION FOR THE DESIGN PROFESSIONAL, PHILIP R. SCHOFIELD, P.E., IS #934 AND EXPIRES 9-27-2023. PROFESSIONAL LICENSE SEAL AND SIGNATURE IS IN THE TITLE BLOCK ON EACH DRAWING SHEET.
- THE 24-HOUR LOCAL CONTACT RESPONSIBLE FOR EROSION, SEDIMENTATION AND POLLUTION CONTROLS IS AS FOLLOWS:

STEPHEN BONTEKOE
TEL 423-421-2543
EMAIL stevebontekoe@gmail.com
- THE PRIMARY PERMITTEE IS LIMESTONE VALLEY RESOURCE CONSERVATION & DEVELOPMENT COUNCIL, ATTN:

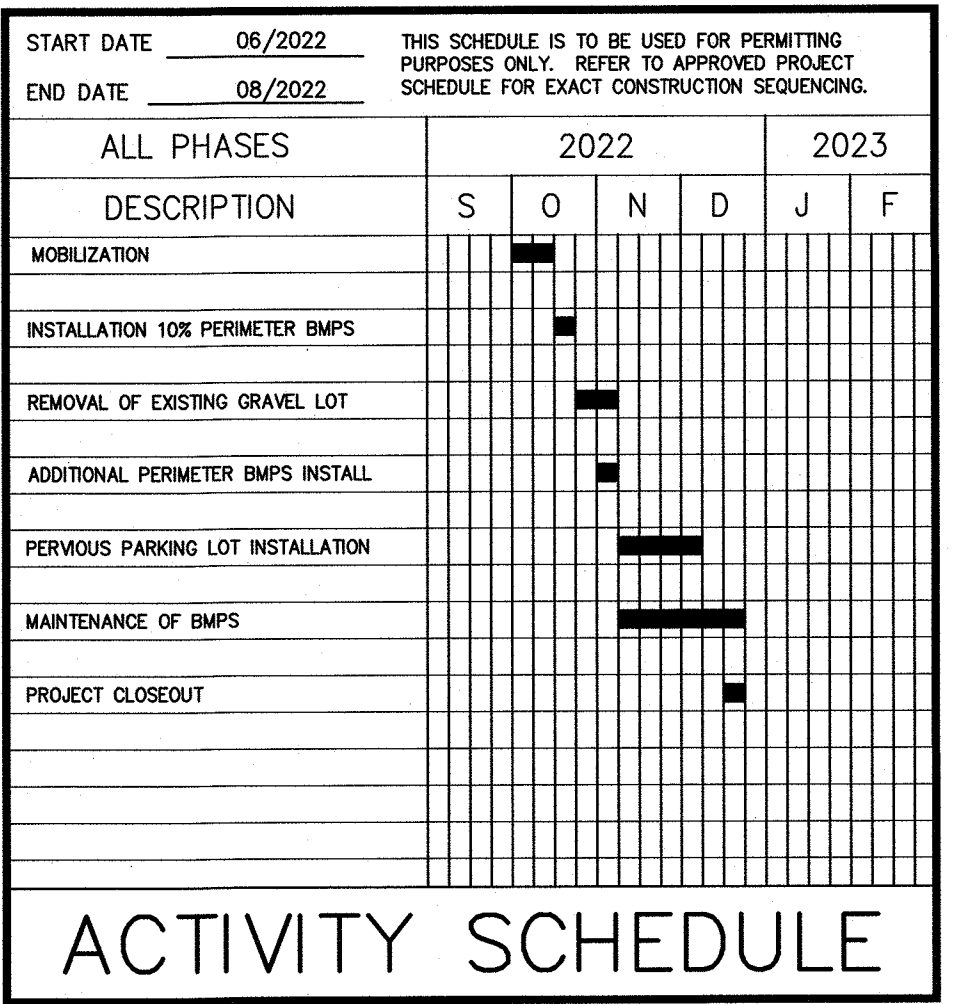
STEPHEN BONTEKOE, EXECUTIVE DIRECTOR
71 CASE AVENUE
TRENTON, GA 30752
TEL 423-421-2543
EMAIL stevebontekoe@gmail.com
- THE TOTAL PROJECT ESTIMATED DISTURBED AREA IS ±0.30 ACRES. TOTAL PROJECT AREA IS ±0.30 ACRES.
- THE GPS LOCATION OF THIS PROJECT IS 34.869036, -85.510157.
- THE INITIAL DATE OF THESE PLANS IS APRIL 22, 2022. THE TITLE SHEET INCLUDES A REVISION BLOCK WITH DATES OF REVISIONS AND WHO REQUESTED THE REVISIONS. EACH DRAWING SHEET HAS A REVISION BLOCK AS WELL.
- THE PROJECT IS A PARKING LOT PROJECT. THE PROJECT CONSISTS OF A PARKING LOT WITH PERMEABLE ASPHALT PAVEMENT AND RAIN GARDEN AREAS TO CAPTURE RUNOFF.
- A VICINITY MAP SHOWING THE SITE'S RELATION TO SURROUNDING AREAS IS FOUND ON THE TITLE SHEET.
- THE PROJECT RECEIVING WATERS ARE DEPICTED ON THE ESPC PLAN SHEETS AND INCLUDE TOWN CREEK.
- DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF THE ES&PC PLAN AS STATED ON PART IV PAGE 21 OF THE PERMIT: "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

PHILIP R. SCHOFIELD, P.E. GSWCC CERTIFICATION NO. 934
- DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BMPs AND SAMPLING TO MEET PERMIT REQUIREMENTS AS STATED ON PAGE 15 OF THE PERMIT: "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' PUBLISHED BY THE GEORGIA WATER QUALITY CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NUMBER GAR 100002."
- PHILIP R. SCHOFIELD, P.E. GSWCC CERTIFICATION NO. 934
- THE DESIGN PROFESSIONAL CERTIFICATION STATEMENT AND SIGNATURE THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR REPRESENTATIVE SAMPLING AS STATED ON PAGE 25 OF THE PERMIT AS APPLICABLE: "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD-VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES; OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."
- PHILIP R. SCHOFIELD, P.E. GSWCC CERTIFICATION NO. 934
- THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- THERE ARE NO PROPOSED BUFFER ENCROACHMENT ON THIS PROJECT, THEREFORE A BUFFER VARIANCE IS NOT REQUIRED.
- AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. REVISIONS OR AMENDMENTS SHALL BE SUBMITTED TO THE LOCAL ISSUING AUTHORITY FOR REVIEW.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. FOR THIS PROJECT, ANY DISPOSAL OF SOLID WASTES TO WATERS OF THE STATE IS PROHIBITED. WASTE BUILDING MATERIALS, CONSTRUCTION

- AND DEMOLITION DEBRIS, ETC. SHALL BE DISPOSED OF AT AN EPD PERMITTED LANDFILL SITE AT A MINIMUM THE FOLLOWING STEPS SHOULD BE TAKEN TO ENSURE PROPER WASTE DISPOSAL:
- CONSULT LOCAL AUTHORITIES FOR HAZARDOUS MATERIAL AND SOLID WASTE DISPOSAL REQUIREMENTS
 - EMPTY AND CLEAN HAZARDOUS WASTE CONTAINERS BEFORE DISPOSING THEM ACCORDING TO MANUFACTURER'S GUIDELINES
 - DO NOT REMOVE THE ORIGINAL PRODUCT LABELS FROM HAZARDOUS MATERIAL CONTAINERS
 - DO NOT MIX MATERIALS PRIOR TO DISPOSAL UNLESS RECOMMENDED BY THE MANUFACTURER
 - CLEAN UP SPILLS IMMEDIATELY USING AN ABSORBENT MATERIAL SUCH AS SAWDUST OR GRANULAR ADSORBENT CLAY TO CONTAIN THE SPILL. FOR HAZARDOUS MATERIALS, FOLLOW CLEANUP INSTRUCTIONS ON THE PACKAGE
 - PROVIDE EXTRA CONTAINERS AND INCREASE PICKUP FREQUENCY DURING DEMOLITION
 - COLLECT, REMOVE, AND DISPOSE OF ALL CONSTRUCTION SITE WASTES AT AUTHORIZED DISPOSAL SITES. ON-SITE BURIAL OF MATERIALS IS PROHIBITED.
 - DESIGNATE A BUILDING MATERIAL AND/OR WASTE COLLECTION AREA ON-SITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY TO A BODY OF WATER.
 - ENSURE THAT ALL CONTAINERS HAVE LIDS AND ARE PLACED IN A COVERED AREA WHENEVER POSSIBLE. IF MATERIALS DO NOT HAVE LIDS, COVER CONTAINERS OR MATERIALS WITH TARPS OR PLACE THEM UNDER COVERED AREAS.
 - SURROUND DESIGNATED MATERIAL STORAGE AREAS WITH SILT FENCE OR OTHER BEST MANAGEMENT PRACTICES TO ELIMINATE STORM WATER DISCHARGE DIRECTLY INTO THE STORM SEWER SYSTEM.
 - SCHEDULE WASTE COLLECTION TO PREVENT THE CONTAINERS FROM OVERFILLING
19. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
20. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
21. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
22. THE CONSTRUCTION ACTIVITY PROPOSED FOR THIS PROJECT DOES NOT 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 IMPAIRED STREAM SEGMENT.
23. THE PROJECT DOES NOT DISCHARGE INTO AN IMPAIRED STREAM SEGMENT NOR HAS A TMDL IMPLEMENTATION PLAN FOR SEDIMENT BEEN FINALIZED WITHIN THE LAST SIX MONTHS FOR AN IMPAIRED STREAM SEGMENT MEETING THE CRITERIA LISTED IN NOTE 22.
24. IF THE CONTRACTOR CHOOSES TO ALLOW CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND REAR OF THE VEHICLES ON THE PROJECT SITE, THE CONTRACTOR SHALL CLEARLY DELINEATE THE LOCATION OF THE AREA PROVIDED FOR WASHING AND THE CONCRETE WASHOUT STRUCTURE BMP SHALL ADHERE TO THE DETAILS PROVIDED IN THIS SET OF PLANS. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
25. SPILL CONTAINMENT:
- SECONDARY CONTAINMENT MUST BE PROVIDED FOR ALL PETROLEUM PRODUCTS AND HAZARDOUS MATERIALS THAT ARE STORED ON-SITE. THESE PRODUCTS AND MATERIALS MUST BE STORED IN A WEATHER RESISTANT ENCLOSURE TO PREVENT THEIR EXPOSURE TO PRECIPITATION (STORM WATER RUNOFF).
- SECONDARY CONTAINMENT MUST BE PROVIDED FOR ALL PETROLEUM PRODUCTS AND HAZARDOUS MATERIALS USED BUT NOT STORED ON-SITE.
- SECONDARY CONTAINMENT MUST BE PROVIDED DURING ANY OPERATIONS WHERE THERE IS THE POTENTIAL FOR A PETROLEUM PRODUCT OR HAZARDOUS MATERIAL SPILL (I.E. FUELING).
- SECONDARY CONTAINMENT AROUND LIQUID WASTE COLLECTION AREAS MUST BE PROVIDED.
- THE CONTRACTOR SHALL KEEP A FULLY STOCKED SPILL CLEAN-UP KIT ON-SITE AT ALL TIMES. THIS KIT MUST BE REPLENISHED OR REPLACED ONCE USED AND SHOULD BE INSPECTED WEEKLY TO INSURE THAT ALL CONTENTS ARE PRESENT AND IN WORKING ORDER.
- ALL MATERIALS STORED ON SITE MUST BE LABELED WITH THE PROPER HAZARDOUS CLASSIFICATION PLACARD AND THEIR MATERIAL SAFETY DATA SHEETS MUST BE ON-SITE AT ALL TIMES AND AVAILABLE UPON REQUEST.
26. THIS PROJECT CONSISTS OF MINIMAL GRADING TO INSTALL SEWER LINES BELOW GRADE. STORM WATER DRAINAGE PATHWAYS ARE NOT ANTICIPATED TO DIFFER WHEN COMPARING THE PRE-CONSTRUCTION AND POST-CONSTRUCTION CONDITIONS. BMPs WILL BE UTILIZED DURING CONSTRUCTION TO MINIMIZE IMPACTS TO WATER QUALITY.
27. NO "BUILDING" MATERIALS WILL BE USED ON THIS LINEAR UTILITY PROJECT.
28. SOURCES OF STORM WATER POLLUTION FOR THIS PROJECT INCLUDE SEDIMENT. SILT FENCING WILL BE INSTALLED IN KEY LOCATIONS ALONG THE ROUTE TO COLLECT ANY SEDIMENT RUNOFF THAT MAY OCCUR DURING CONSTRUCTION.
29. A SCHEDULE OF ACTIVITIES IS DEPICTED ON THIS DRAWING.
30. INSPECTIONS: ALL PRIMARY PERMITTEES ARE REQUIRED TO PROVIDE FOR THE PERFORMANCE OF INSPECTIONS BY CERTIFIED PERSONNEL AS DEFINED BY THE PERMIT AS DESCRIBED BELOW:
- 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 OR REAR OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
 - MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE

- MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
- 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 V.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
 - 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: A DESIGNATED ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
 - BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
 - 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.B.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 SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE 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:
- 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 STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
 - 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 STORMWATER DISCHARGE.
 - SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
 - FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRADING OPERATIONS HAVE BEEN COMPLETED. THIS REPORTING OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;
 - IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED. THIS REPORTING OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;
 - 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;
 - 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.B.4.A.(6) MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT 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
 - EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT REQUIRE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE. NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.
- SAMPLING REPORTING REQUIREMENTS:
- THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD 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 STORMWATER DISCHARGE OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. 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:
- THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
 - THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
 - THE DATE(S) ANALYSES WERE PERFORMED;
 - THE TIME(S) ANALYSES WERE INITIATED;
 - THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
 - REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
 - THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READINGS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
 - RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU," AND
 - CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
3. 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.
32. RETENTION OF RECORDS:
- 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 COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
 - A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
 - THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
 - A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
 - A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.B.4.A. OF THIS PERMIT;
 - A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
 - DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.B.4.A.(2) OF THIS PERMIT.
 - COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP-GHART 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 PERMITTEES PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.
33. SAMPLE TYPES:
- ALL SAMPLES SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS MUST BE CONDUCTED AS INDICATED IN PART IV.B.5.D. OF THE PERMIT.
 - LABEL ALL SAMPLE CONTAINERS PRIOR TO COLLECTING THE SAMPLE
 - MIX SAMPLES WELL BEFORE TRANSFERRING THEM TO A SECONDARY CONTAINER
 - SAMPLE CONTAINERS SHOULD BE LARGE MOUTH, THOROUGHLY CLEANED AND RINSED GLASS OR PLASTIC JARS.
 - MANUAL AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED
 - SAMPLES SHOULD BE ANALYZED IMMEDIATELY, BUT NOT LATER THAN 48 HOURS AFTER COLLECTION
 - SAMPLING OF SAMPLES IS NOT REQUIRED
 - SAMPLES ARE NOT REQUIRED TO BE COOLED
 - SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALL(S) BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO THE ENVIRONMENTAL PROTECTION DIVISION AS SPECIFIED IN PART IV.E OF THE PERMIT.
34. PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALL(S). A RATIONALE FOR THE NEPHELOMETRIC TURBIDITY UNIT (NTU) LIMIT(S) SELECTED FROM APPENDIX B OF THE PERMIT, INCLUDING THE SIZE OF THE FACILITY OR CONSTRUCTION, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATERS FOR THIS PROJECT:
- DISTURBED ACREAGE: ±0.30 ACRES
SURFACE WATER DRAINAGE AREA: ±13.82 SQUARE MILES
TYPE OF RECEIVING WATER: WARM WATER
NTU LIMIT: 75**
- SAMPLING POINTS:
- FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION THEREOF
 - THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE FIRST STORM WATER DISCHARGE FROM THE SITE OF PERMITTED ACTIVITY. DOWNSTREAM OF ANY DISCHARGES NOT ASSOCIATED WITH PERMITTED ACTIVITY.
 - THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN DOWNSTREAM OF THE LAST STORM WATER DISCHARGE FROM THE SITE OF PERMITTED ACTIVITY, BUT UPSTREAM OF ANY DISCHARGES NOT ASSOCIATED WITH PERMITTED ACTIVITY.
 - THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR OUTFALL STORM WATER CHANNEL(S)
 - DO NOT STIR BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR OUTFALL STORM WATER CHANNEL
 - THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE ENVIRONMENTAL AGENT DOES NOT COME IN CONTACT WITH PERMITTED ACTIVITY.
 - KEEP THE SAMPLES FREE OF FLOATING DEBRIS
 - PERMITTEES DO NOT HAVE TO SAMPLE SEEDFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT
 - ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE FACILITY/SITE IS IN COMPLIANCE WITH

- THE STANDARDS SET FORTH IN THE PERMIT**
4. THE TURBIDITY READINGS SHOULD NOT INCREASE BY MORE THAN 25 NTU (WARM WATERS) OR 40 NTU (COLD-OUT-STREAMS) BETWEEN ANALYSIS OF STORMWATER DISCHARGE AND THE RECEIVING WATER(S) UPSTREAM AND DOWNSTREAM SAMPLES.
5. ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED ARE DEPICTED ON SHEET ES-2.
6. A DESCRIPTION OF THE APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE IS NOTED ON SHEET ES-2.
7. A GRAPHIC SCALE AND ARROW IS DEPICTED ON SHEET ES-201 & ES-301.
8. EXISTING AND PROPOSED CONTOUR LINES AND LABELS ARE DEPICTED ON SHEETS C-201 AND SHEET ES-201. THIS PROJECT PROPOSES TO RESTORE THE FINISHED GRADE TO THE SURFACE OF THE NEW PERVIOUS PARKING LOT. THE PARKING LOT SECTION SHEET C-301 INCLUDES A GROUND PROFILE ALONG THE PARKING LOT SECTIONS INDICATED ON PLAN SHEET C-201.
39. NO ALTERNATE BMPs ARE PROPOSED FOR THIS PROJECT.
40. NO ALTERNATE BMPs ARE PROPOSED FOR THIS PROJECT.
41. UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY ARE DELINEATED AND NOTED ON THE EROSION CONTROL PLAN SHEETS.
42. ON-SITE WETLANDS AND ALL STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE ARE DELINEATED ON SHEET ES-201.
43. REFER TO THE DRAWING ES-301 TITLED ESPC DRAINAGE AREA MAP FOR DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE.
44. REFER TO NOTE 42 REGARDING MAPPING.
45. AN ESTIMATE OF THE RUNOFF COEFFICIENT AND/OR PEAK DISCHARGE FLOW FOR THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES IS NOT ANTICIPATED TO CHANGE SIGNIFICANTLY.
46. PROPOSED STORM DRAINS FOR THIS PROJECT INCLUDE TWO PERFORATED UNDERDRAINS BELOW THE STONE RECHARGE AREAS AROUND THE EDGES OF THE PARKING LOT.
47. SOIL SERIES FOR THE PROJECT SITE ARE DELINEATED AND NOTED ON SHEET ES-201.
48. THE LIMITS OF DISTURBANCE FOR THIS LINEAR INFRASTRUCTURE PROJECT ARE DEPICTED ON THE ESPC PLAN SHEET ES-201 (1"=10' SCALE). THE PROJECT DOES NOT REQUIRE PHASE DRAWINGS. BMPs LOCATIONS ARE DEPICTED ON 1"=10' SCALED DRAWINGS.
49. FOR THE PERMEABLE ASPHALT PARKING LOT PROJECT, A TEMPORARY SEDIMENT BASIN IS NOT A VIABLE OPTION. THE DISTURBED AREA AT ANY POINT IN TIME PER CREW DURING CONSTRUCTION WILL BE LESS THAN 1-ACRE. IN LOCALIZED AREAS, A MINIMUM OF 67 CUBIC YARDS PER DISTURBED ACREAGE MAY BE ATTAINED THROUGH THE USAGE OF THE RAIN GARDEN AREAS AND SILT FENCE AND/OR WATTLES.
50. BEST MANAGEMENT PRACTICES (BMP) USING UNIFORM CODING SYMBOLS FROM THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA IS INCLUDED ON DRAWING NO. ES-501.
51. BMP DETAILS ARE INCLUDED ON SHEETS ES-501 THROUGH ES-502.
52. VEGETATION DETAILS ARE INCLUDED ON THE DETAIL DRAWING SHEETS INCLUDING SEED, FERTILIZER, AND PLANTING DATES. TEMPORARY AND PERMANENT VEGETATIVE PRACTICES ARE INCLUDED ON THE EROSION CONTROL PLAN SHEETS AND DETAIL SHEETS.



ACTIVITY SCHEDULE





Know what's below.
Call before you dig.

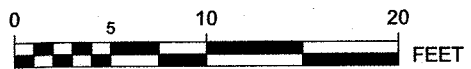
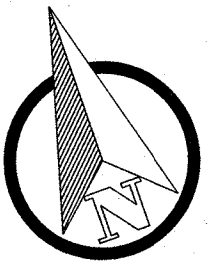
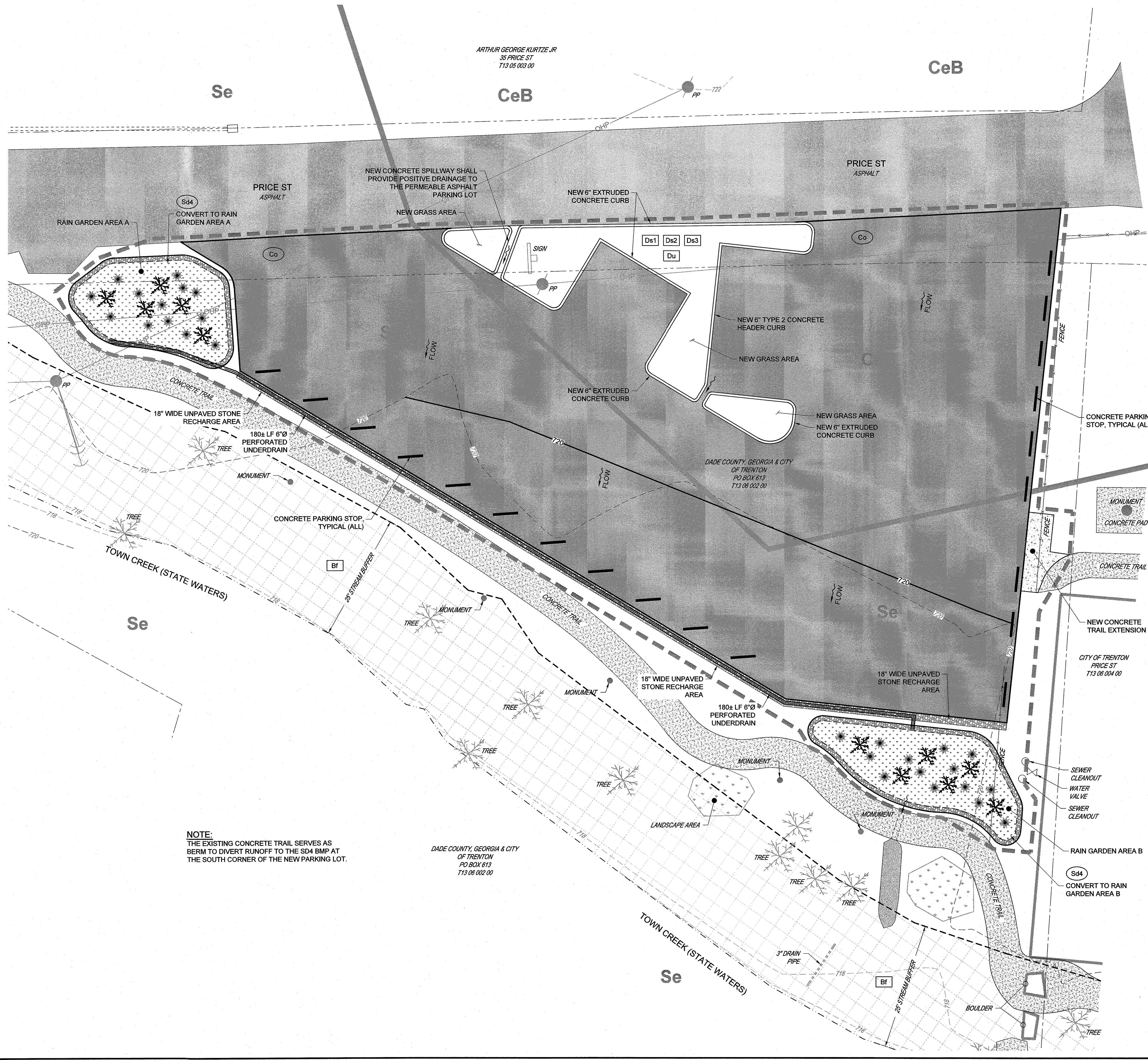
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DESIGN	NO.	REVISIONS		DATE	BY	APPD
		DESCRIPTIONS				
RWJ						
DRAWN						
RWJ						
CHECKED						
PRS						
APPROVED						
PRS						

LIMESTONE VALLEY RC&D
PERMEABLE ASPHALT PARKING LOT


CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423.267.7613


GWSWC 934
JOB NO.
G22016
ISSUE DATE
4/22/2022
DRAWING NO.
ES-101



- PROJECT DESCRIPTION**
THE PURPOSE OF THIS PROJECT IS TO REPLACE THE EXISTING GRAVEL PARKING LOT WITH A NEW PERVIOUS PAVEMENT PARKING LOT AND RAIN GARDEN AREAS FOR STORMWATER RUNOFF RETENTION.
- SITE DESCRIPTION**
THE PROPOSED PROJECT SITE IS COMPRISED OF COMMERCIAL AREAS IN DADE COUNTY, GEORGIA.

THE PERVIOUS PARKING LOT IS LOCATED ON PROPERTY OWNED BY THE CITY OF TRENTON AND DADE COUNTY. THESE AREAS WILL BE PERVIOUS AREAS AND RUNOFF WILL INFILTRATE THE PARKING AREA. ADDITIONAL RUNOFF WILL BE DIRECTED TO RAIN GARDEN INFILTRATION AREAS VIA PERFORATED UNDERDRAIN PIPES UNDER THE PERVIOUS PARKING LOT.
- SEDIMENT MINIMIZATION**
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. THE ESTIMATED MAXIMUM UN-STABILIZED DISTURBANCE IS ±0.30 ACRES.
- CONSTRUCTION DESCRIPTION**
CONSTRUCTION INCLUDES THE INSTALLATION AND MAINTENANCE OF BMPS INSTALLED IN CONCORDANCE WITH THE INSTALLATION OF THE PERVIOUS PARKING AREA, STONE RECHARGE BED, AND WATER GARDEN AREAS.

SOIL UNIT	SOIL NAME
CeB	Colbert-Lyerly complex, 2-6% slopes, rocky
Se	Steadman silt loam, frequently flooded

PROPOSED PERVIOUS PARKING AREA	
PROPOSED STONE RECHARGE AREA	
PROPOSED RAIN GARDEN AREA	
PROPOSED CONCRETE SIDEWALK	
PROPOSED PERFORATED UNDERDRAIN PIPE	
PROPOSED SILT FENCE	
LIMITS OF DISTURBANCE	

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LIMESTONE VALLEY RC&D
PERMEABLE ASPHALT PARKING LOT

ESPC PLAN



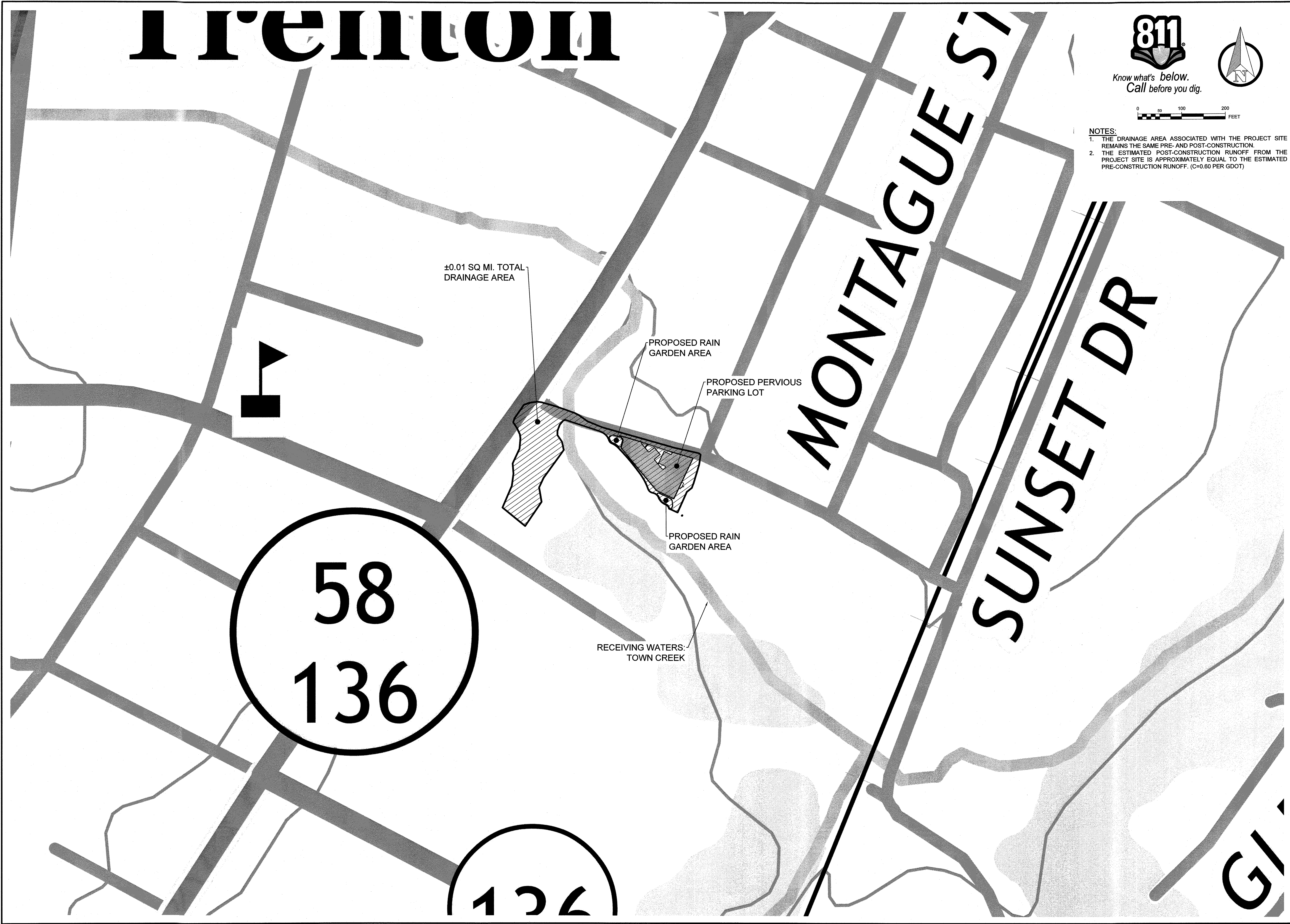
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NO. 00878
PROFESSIONAL
4/17/22
ENGINEER
BRIAN R. SCHOFIELD

GSWCC 934

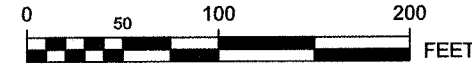
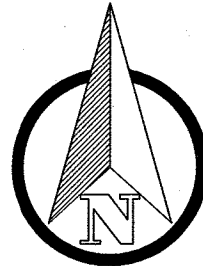
JOB NO.
G22016

ISSUE DATE
4/22/2022

DRAWING NO.
ES-201



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NOTES:

1. THE DRAINAGE AREA ASSOCIATED WITH THE PROJECT SITE REMAINS THE SAME PRE- AND POST-CONSTRUCTION.
2. THE ESTIMATED POST-CONSTRUCTION RUNOFF FROM THE PROJECT SITE IS APPROXIMATELY EQUAL TO THE ESTIMATED PRE-CONSTRUCTION RUNOFF. (C=0.60 PER GDOT)

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NO.	DESCRIPTIONS	DATE	BY	DATE	APPROVED

DESIGN	DRAWN	CHECKED	APPROVED
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LIMESTONE VALLEY RC&D PERMEABLE ASPHALT PARKING LOT	ESPC DRAINAGE AREA MAP
--	------------------------


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GSWCC 934

JOB NO. G22016
ISSUE DATE 4/22/2022
DRAWING NO. ES-301

SWCD: COOSA RIVER

Project Name:	PERVIOUS PARKING LOT	Address:	PRICE ST
City/County:	TRENTON/DADE	Date on Plans:	04/22/2022
Name & email of person filling out checklist: PHILIP R. SCHOFIELD P.E. pschofield@ctienr.com			

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
ES-101	Y	19 Clearly note statement that "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."
ES-101	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
ES-101	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
N/A	N	22 Any construction activity which discharges 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 must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
N/A	N	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
N/A	N	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
ES-101	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
N/A	N	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
N/A	N	27 Description of practices to provide cover for building materials and building products on site. *
N/A	N	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
ES-101	Y	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).
N/A	N	30 Provide complete requirements of inspections and record keeping by the primary permittee. *
N/A	N	31 Provide complete requirements of sampling frequency and reporting of sampling results. *
N/A	N	32 Provide complete details for retention of records as per Part IV.F. of the permit. *
N/A	N	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
N/A	N	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
N/A	N	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. *
N/A	N	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. *
ES-201	Y	37 Graphic scale and North arrow.
ES-301	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

* 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.

[illegible]

CTI PROJECT: G22016-01, DRAWING: G22016-01 ES101-ES502 (755728v5/8/16/22 11:45AM), LAYOUT: ES501

DATE OF PRINT: 8/16/2022 11:46 AM

VEGETATIVE PRACTICES

EXIT DIAGRAM

50° MIN.

6" MIN.

20" MIN.

(IF NEEDED)

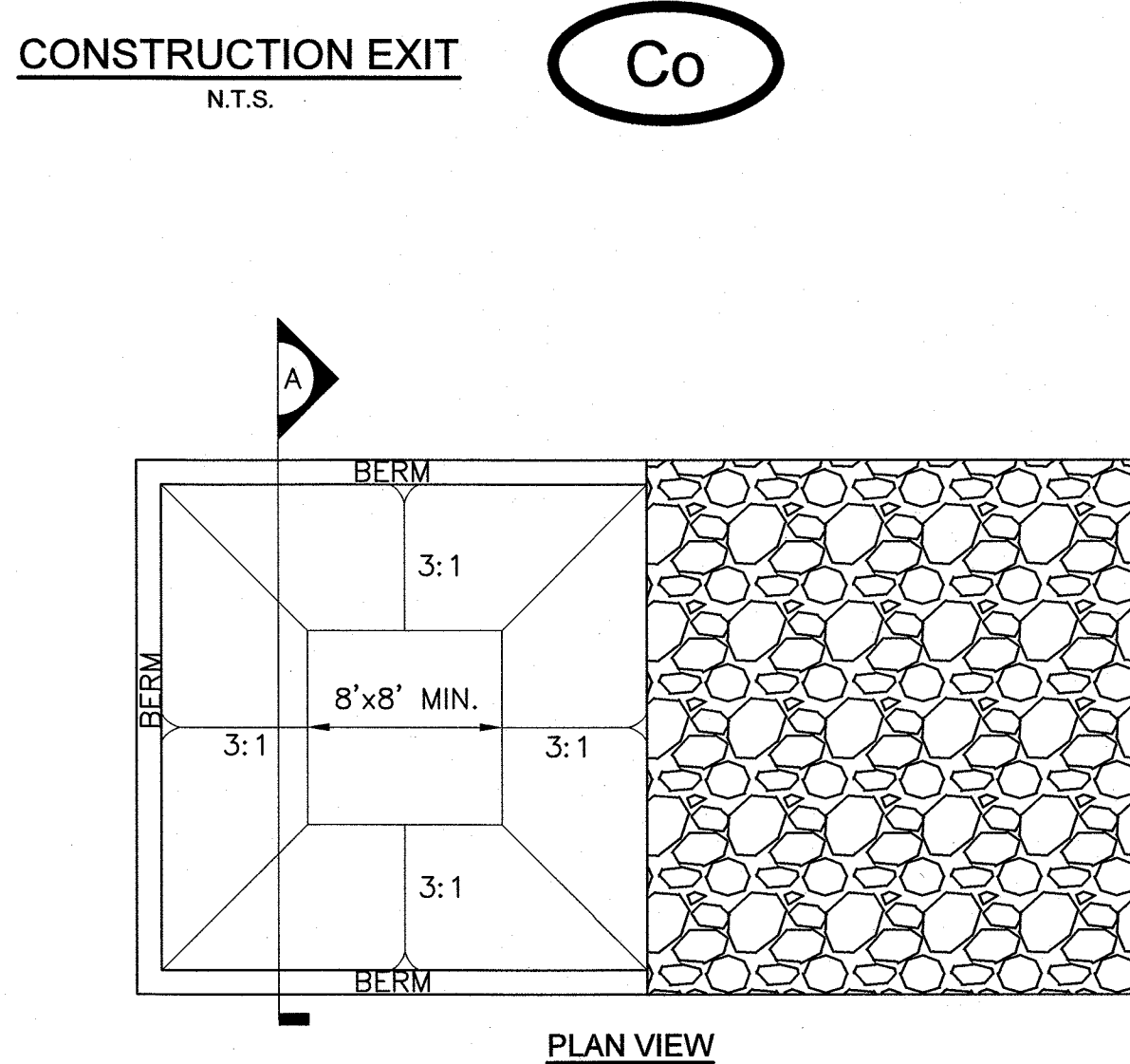
ENTRANCE ELEVATION

6" MIN.

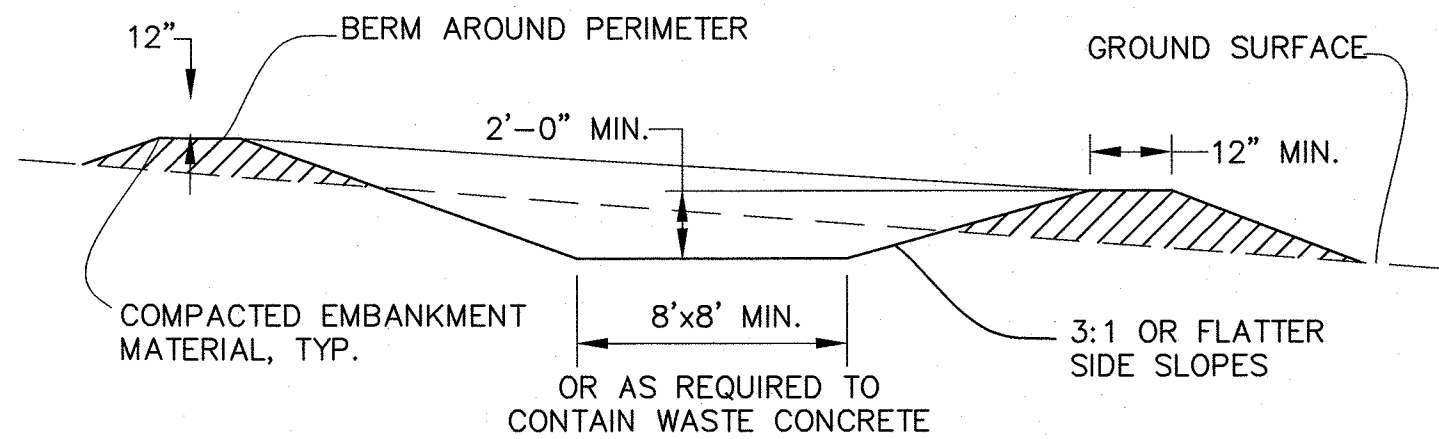
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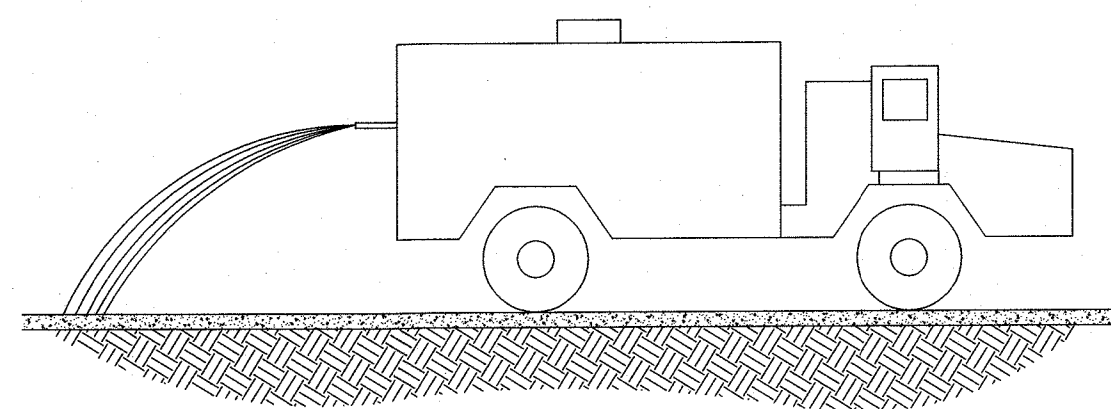
CONSTRUCTION EXIT
N.T.S.



PLAN VIEW



SECTION A



TYPES OF INSTALLATION

1. MULCH DISTURBED AREAS AND/OR TACKIFY WITH RESINS SUCH AS ASPHALT, CURSOL OR TERRACRAFT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. STABILIZE DISTURBED AREAS WITH TEMPORARY PERMANENT VEGETATION.
3. IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET.
4. COVER SURFACES WITH CRUSHED STONE OR GRAVEL.
5. APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES MOIST.
6. APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS (NOT MUCK SOILS) AS DESCRIBED IN TABLE 1.

DUST CONTROL

Du

- CONCRETE WASHOUT AREA INSTALLATION NOTES:

1. SEE PLAN VIEW FOR LOCATIONS OF CONCRETE WASHOUT AREA
2. THE CONCRETE AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE
3. VEHICLE TRACKING CONTROL IS REQUIRED AT ACCESS POINT
4. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION

- CONCRETE WASHOUT AREA MAINTENANCE NOTES:

1. CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED, MULCH OR OTHERWISE STABILIZE IN A MANNER APPROVED BY THE LOCAL ISSUING AUTHORITY
4. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT

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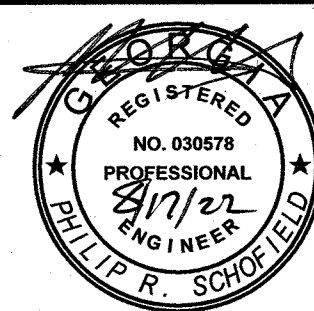
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LIMESTONE VALLEY RC&D
PERMEABLE ASPHALT PARKING LOT

ESPC DETAILS
(SHEET 1 OF 2)



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GSWCC 934

JOB NO.
G22016

ISSUE DATE
4/22/2022

DRAWING NO
ES-501

PERMANENT METHODS:
PERMANENT VEGETATION: REFER TO Ds3 (DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION).
TOPSOILING: COVERING THE SURFACE WITH A LESS ERODIBLE SOIL MATERIAL.
STONE: SURFACE WITH CRUSHED STONE OR COARSE GRAVEL (SEE Cr – CONSTRUCTION ROAD STABILIZATION).
TEMPORARY METHODS:
MULCHES: REFER TO Ds1 (DISTURBED AREA STABILIZATION) VEGETATIVE COVER – REFER TO Ds2 (DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING).
TILLAGE: ROUGHEN AND BRING CLODS TO THE SURFACE BY USE OF CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART.
IRRIGATION: SITE SPRINKLED WITH WATER UNTIL WET. REPEAT AS NEEDED.
BARRIERS: FENCES, HAY BALES, AND CRATE WALLS PLACED AT INTERVALS 15 TIMES THEIR HEIGHT AND PERPENDICULAR TO AIR CURRENTS.
CALCIUM CHLORIDE: APPLY TO KEEP SURFACE WET. REPEAT AS NEEDED.
TACKIFIERS & BINDERS: REFER TO Tb DETAIL.

DISTURBED AREA STABILIZATION

MATERIAL	DEPTH
DRY STRAW OR HAY	2" TO 4"
WOOD WASTE (SAWDUST, BARK, CHIPS)	2" TO 3"
CUTBACK ASPHALT (SLOW CURING)	1200 GAL. / ACRE (¼ GAL. / SQ. YD.)
BLACK POLYETHYLENE FILM	COMPLETELY COVER AREA; HOLD IN PLACE WITH SOIL ON OUTER EDGE

DISTURBED AREA STABILIZATION (TEMPORARY)

Ds1

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

SPECIES	RATES PER 1,000 SQ. FT.	RATES PER ACRE	PLANTING DATES BY REGION		
			M-L	P	C
Barley	3.3 lbs.	3 bu.	9/1-10/31	9/15-11/15	10/1-12/31
Oats	2.9 lbs.	4 bu.	9/15-11/15	9/15-11/15	9/15-11/15
Triticale	3.3 lbs.	3 bu.	-	-	10/15-12/15
Ryegrass, Annual	0.9 lbs.	40 lbs.	8/15-11/15	9/1-12/15	9/15-12/31
Rye	0.6 lbs.	0.5 bu.	8/15-10/31	9/15-11/30	10/1-12/31
Lespedeza, Annual	0.9 lbs.	40 lbs.	3/1-3/31	3/1-3/31	2/1-2/28
Weeping Lovegrass	0.1 lbs.	4 lbs.	4/1-5/31	4/1-5/31	3/1-5/31
Sudangrass	1.4 lbs.	60 lbs.	4/1-8/31	4/1-8/31	3/1-7/31
Millet, Browntop	0.9 lbs.	40 lbs.	4/15-6/15	4/15-6/30	4/15-6/30
Millet, Pearl	1.1 lbs.	50 lbs.	5/15-7/15	5/1-7/31	4/15-8/15
Wheat	4.1 lbs.	3 bu.	9/15-11/30	10/1-12/15	10/15-12/31

1. Temporary Cover Crops Are Very Competitive And Will Crown Out Perennials If Planted Too Heavily.
2. Reduce Seeding Rates By 50% When Drilled.
3. Unusual Site Conditions May Require Heavier Seeding Rates.
4. Seeding Rates May Need To Be Altered To Fit Temperature Variations And Local Conditions.

M-L Represents The Mountain, Blue Ridge, And Ridges & Valleys MLRAs.
P Represents The Southern Piedmont Region MLRA.
C Represents The Southern Coastal Plan, Sand Hills, Black Lands, And Atlantic Coast Flatwoods MLRAs.

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (lbs./acre)	N TOP DRESSING RATE (lbs./acre)
Cool Season Grasses	First	6-12-12	1500	50-100
	Second Maintenance	6-12-12 10-10-10	100 400	- 30
Cool Season Grasses & Legumes	First	6-12-12	1500	0-50
	Second Maintenance	0-10-10 0-10-10	1000 400	-
Temporary Cover Crops Seeded Alone	First	10-10-10	500.	30
Warm Season Grasses	First	6-12-12	1500	50-100
	Second Maintenance	6-12-12 10-10-10	800 400	50-100 30

DISTURBED AREA STABILIZATION (TEMPORARY GRASSING)

Ds2

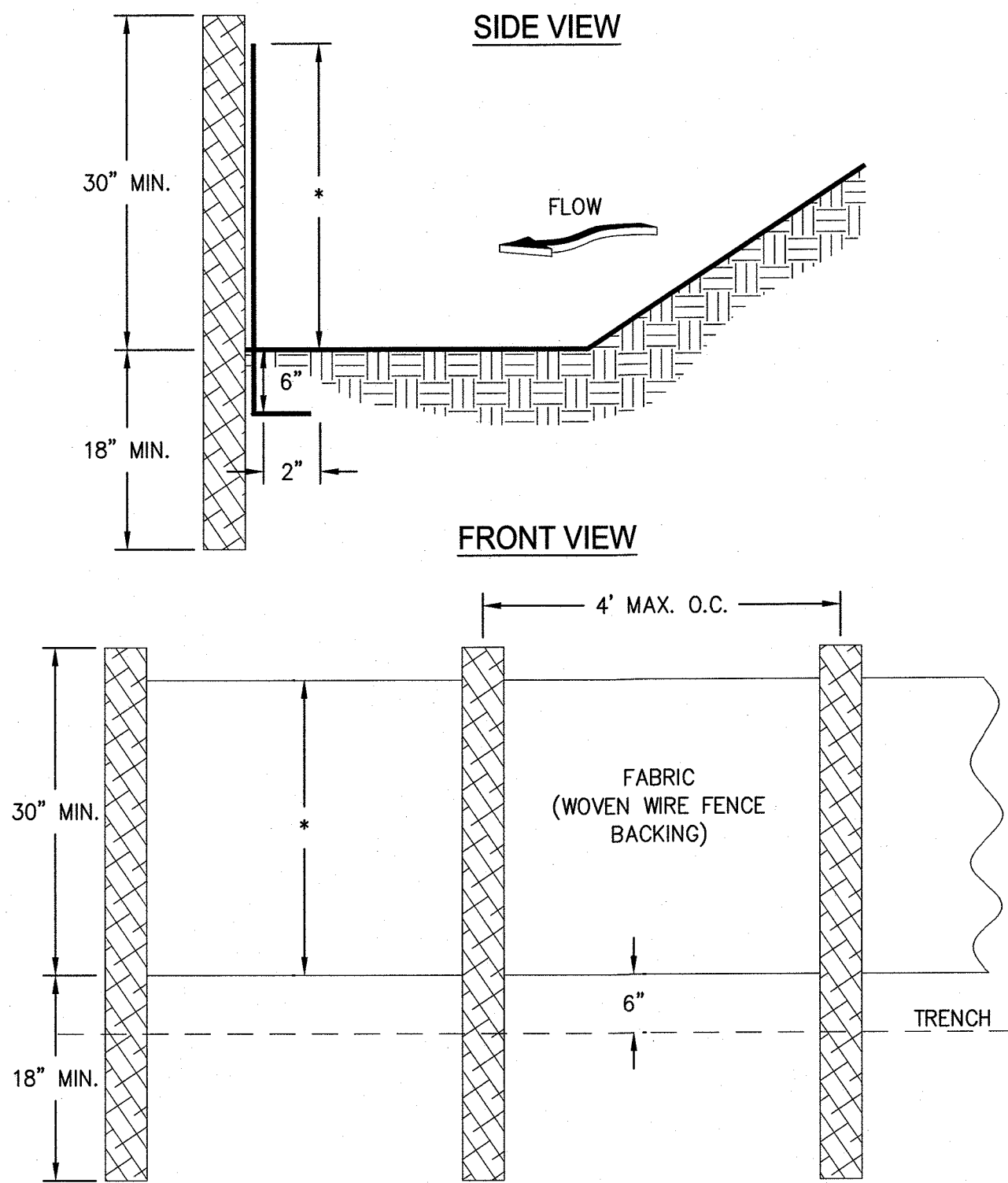
PLANTS, PLANTING RATES, & PLANTING DATES FOR PERMANENT COVER						
TYPES OF SPECIES	RATES PER ACRE	RATES PER 1000 FT²	PLANTING DATES BY REGION			REMARKS
			M-L	P	C	
Bahia, Pensacola Alone Or With Temporary Cover With Perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lbs.	-	4/1 - 5/31	3/1 - 5/31	Low Growing And Sod Forming. Allow To Establish. Will Spread Into Bermuda Lawns.
Bahia, Wilmington Alone Or With Temporary Cover With Perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lbs.	3/15 - 5/31	3/1 - 5/31	-	Low Growing And Sod Forming. Allow To Establish. Will Spread Into Bermuda Lawns.
Bermuda, Common (Hulled Seed) Alone Or With Temporary Cover With Perennials	10 lbs. 6 lbs.	0.2 lbs. 0.1 lbs.	-	4/1 - 5/31	3/15 - 5/31	Quick Cover, Low Growing, And Sod Forming. Needs Full Sun.
Bermuda, Common (Unhulled Seed) Alone Or With Temporary Cover With Perennials	10 lbs. 6 lbs.	0.2 lbs. 0.1 lbs.	-	10/1 - 2/28	11/1 - 1/31	Plant With Winter Annuals Plant With Tall Fescue
Bermuda Sprigs Temporary Cover	40 FT³ Sod Plug 3' x 3'	0.9 FT³	4/15 - 6/15	4/1 - 6/15	4/1 - 5/31	1 ft³ = 650 Sprigs 1 bu. = 1.25 ft³ or 800 Sprigs
Centipede	Block Sod Only	-	-	11/1 - 5/31	11/1 - 5/31	Drought Tolerant; Full Sun or Partial Shade; Effective Adjacent To Concrete And In Concentrated Flow Areas; Irrigation Needed Until Fully Established; Do Not Plant Near Pastures.
Crown Vetch With Winter Annuals Or Cool Winter Grasses	15 lbs.	0.3 lbs	9/1 - 10/15	9/1 - 10/10	-	Mix With 30 lbs. Tall Fescue or 15 lbs. Rye; Inoculate Seed; Only North Of Atlanta; Dense Growth; Drought Tolerant & Fire Resistant
Fescue, Tall Alone With Other Perennials	50 lbs. 30 lbs.	1.1 lbs 0.7 lbs.	3/1 - 4/1 - Or - 8/15 - 10/15	9/1 - 10/15 - Or - 2/15 - 4/15	-	Not For Droughty Soils; Mix With Perennial Lespedeza Or Crown Vetch; Apply Topdressing In Spring Following Fall Plantings; Not For Heavy Use Or Athletic Fields; 227,000 Seeds Per Pound.
Lespedeza, Serica Scarified	60 lbs.	1.4 lbs	4/1 - 5/31	3/15 - 5/31	3/1 - 5/15	Widely Adapted And Low Maintenance; Teks 2-3 Years To Establish; Excellent On Roadbanks; Inoculate Seed With EL Inoculant; Mix With Weeping Lovegrass, Common Bermuda, Bahia Or Tall Fescue.
Unscarified	75 lbs.	1.7 lbs	9/1 - 2/28	9/1 - 2/28	9/1 - 2/28	Mix With Tall Fescue Or Winter Annuals
Seed-Bearing Hay	3 Tons	138 lbs.	10/1 - 2/28	10/1 - 1/31	9/15 - 1/15	Cut When Seed Is Mature, But Before It Shatters; Add Tall Fescue Or Winter Annuals.
Lespedeza, Ambro Virgeta Or Appalow						
Scarified	60 lbs.	1.4 lbs	4/1 - 5/31	3/15 - 5/31	3/15 - 5/15	Spreading Growth With Height of 18"-24"; Good In Urban Areas; Mix With Weeping Lovegrass, Common Bermuda, Bahia, Tall Fescue, Or Winter Annuals; Do Not Mix With Serica Lespedeza; Slow To Develop Solid Stands; Inoculate Seed With EL Inoculant.
Unscarified	75 lbs.	1.7 lbs	9/1 - 2/28	9/1 - 2/28	9/1 - 2/28	
Lespedeza, Shrub (Lespedeza Bicolor or Lespedeza Thumbergii) Plants	3' x 3' Spacing		10/1 - 3/31	11/1 - 3/15	11/15 - 2/28	Plant In Small Clumps For Wildlife Food And Cover
Lovegrass, Weeping Alone With Other Perennials	4 lbs 2 lbs	0.1 lbs 0.05 lbs	4/1 - 5/31	3/15 - 5/31	3/1 - 5/31	Quick Cover. Drought Tolerant. Grows Well With Sericea Lespedeza On Roadbanks.
Maidencasne Sprigs	2' x 3' Spacing		2/1 - 3/31	2/1 - 3/31	2/1 - 3/31	For Very Wet Sites Such As Riverbanks And Shorelines. Dig Sprigs Locally. May Clog Channels.
Panicgrass, Atlantic Coastal	20 lbs	0.5 lbs	-	3/1 - 4/30	3/1 - 4/30	Grows Well On Coastal Sand Dunes, Borrow Areas, And Gravel Pits. Provides Winter Cover For Wildlife. Mix With Sericea Lespedeza Except On Sand Dunes.
Reed Canary Grass Alone With Other Perennials	50 lbs 30 lbs	1.1 lbs 0.7 lbs	6/15 - 10/15	9/1 - 10/15	-	Grows Similar To Tall Fescue
Sunflower, 'Aztec' Maximillian	10 lbs	0.2 lbs	4/15 - 5/31	4/15 - 5/31	4/15 - 5/31	Mix With Weeping Lovegrass, Legumes, Or Other Low Growing Grasses.

FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (lbs./acre)	N TOP DRESSING RATE (lbs./acre)
Cool Season Grasses	First	6-12-12	1500	50-100
	Second Maintenance	6-12-12 10-10-10	1000 400	- 30
Cool Season Grasses & Legumes	First	6-12-12	1500	0-50
	Second Maintenance	0-10-10 0-10-10	1000 400	-
Ground Covers	First	10-10-10	1300	-
	Second Maintenance	10-10-10 10-10-10	1300 1100	-
Pine Seedlings	First	20-10-5	one 21-gram pellet per seedling placed in th closing hole	-
Shrub Lespedeza	First	0-10-10	700	-
	Maintenance	0-10-10	700	-
Temporary Ground Cover Crops Seeded Alone	First	10-10-10	500	30
Warm Season Grasses	First	6-12-12	1500	50-100
	Second Maintenance	6-12-12 10-10-10	800 400	50-100 30
Warm Season Grasses & Legumes	First	6-12-12	1500	50
	Second Maintenance	0-10-10 0-10-10	1000 400	-

DISTURBED AREA STABILIZATION (PERMANENT GRASSING)

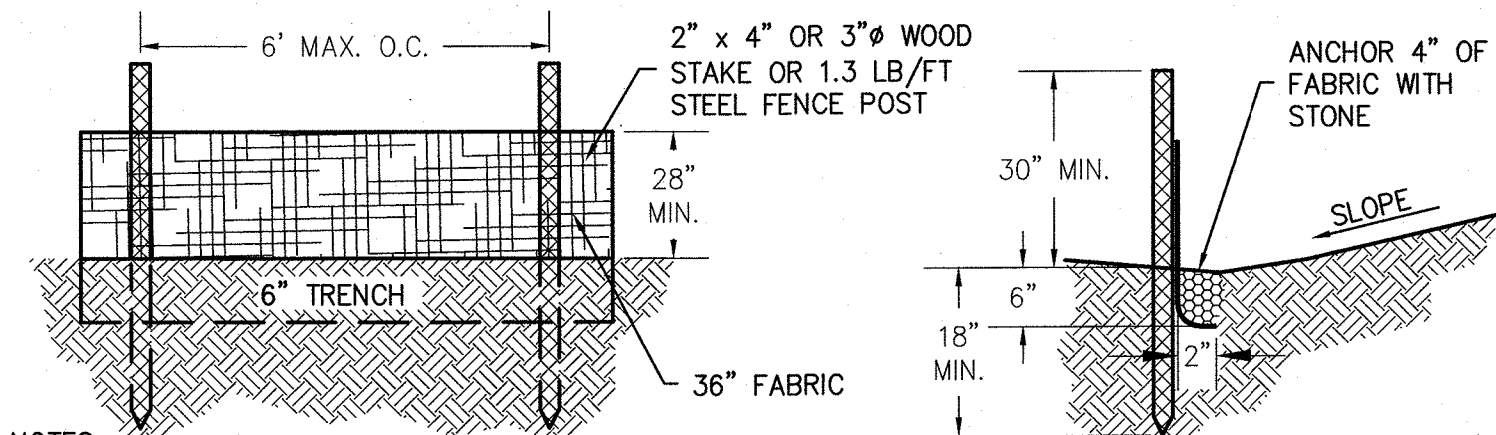
Ds3



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

SEDIMENT BARRIER TYPE C SILT FENCE

Sd1-S



- NOTES:
SILT FENCE TO MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE DEPARTMENT OF NTRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS. VENDOR OR MANUFACTURER SHALL PROVIDE WARRANTY STATING MATERIAL MEETS D.O.T. SPECIFICATIONS AND IS ON D.O.T. PRODUCTS LIST # 36.

- MAINTENANCE:
1. SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.
2. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS).
3. TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

SEDIMENT BARRIER TYPE A SILT FENCE

Sd1-NS

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REVISONS	NO.	DATE	BY	APPD	DESCRIPTIONS

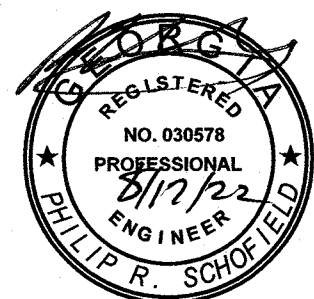
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LIMESTONE VALLEY RC&D PERMEABLE ASPHALT PARKING LOT

ESPC DETAILS (SHEET 2 OF 2)



CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613



GSWCC 934

JOB NO.

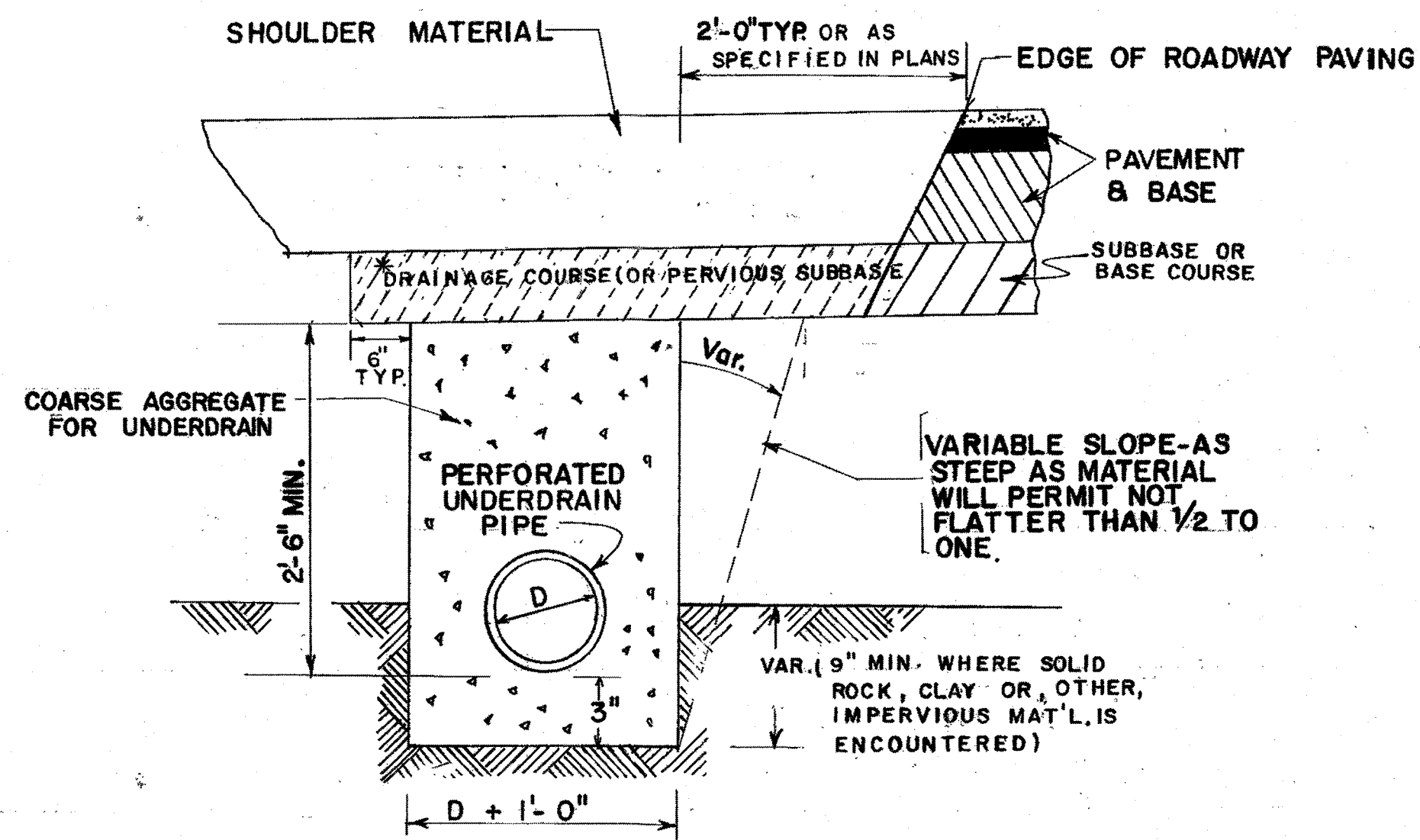
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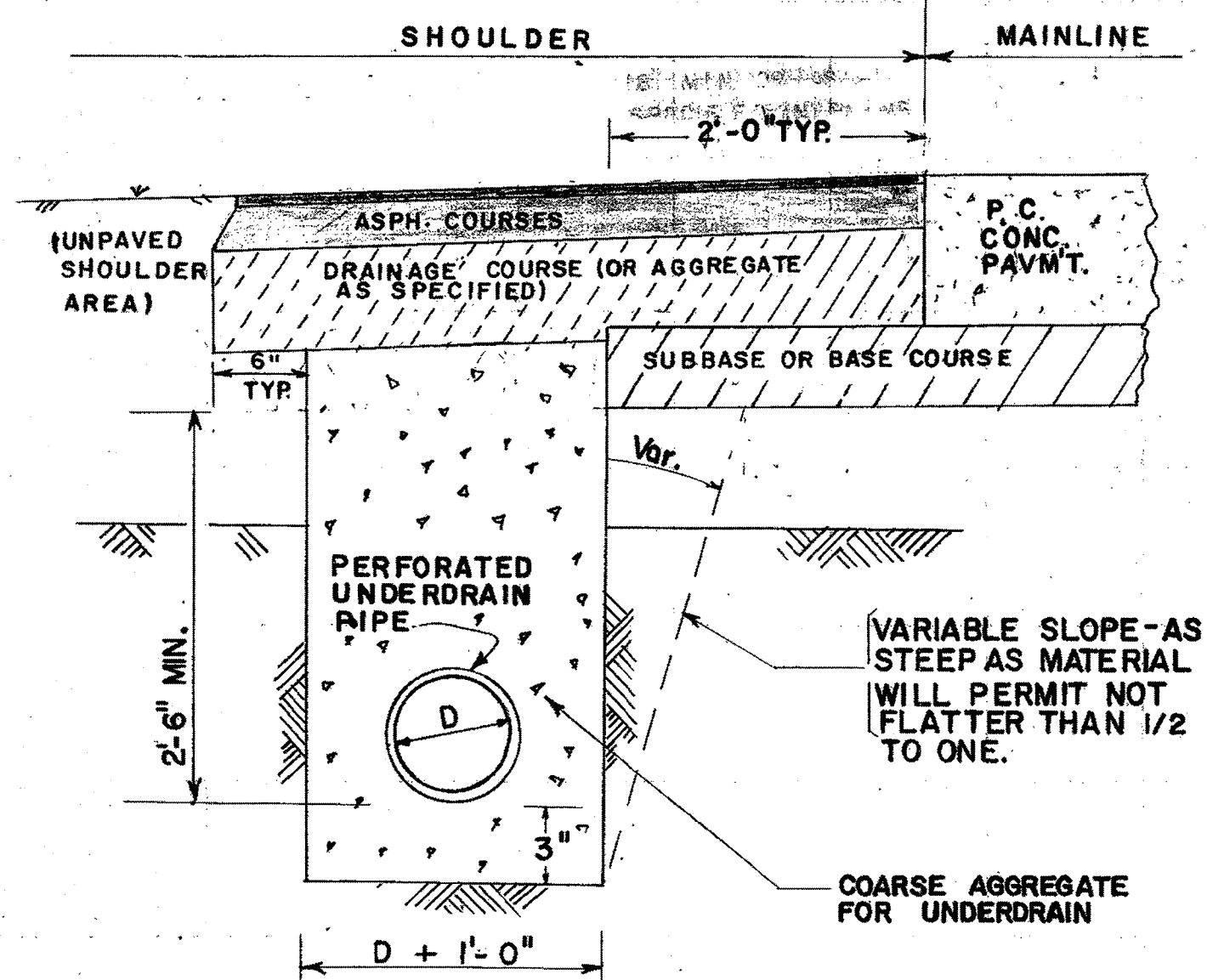
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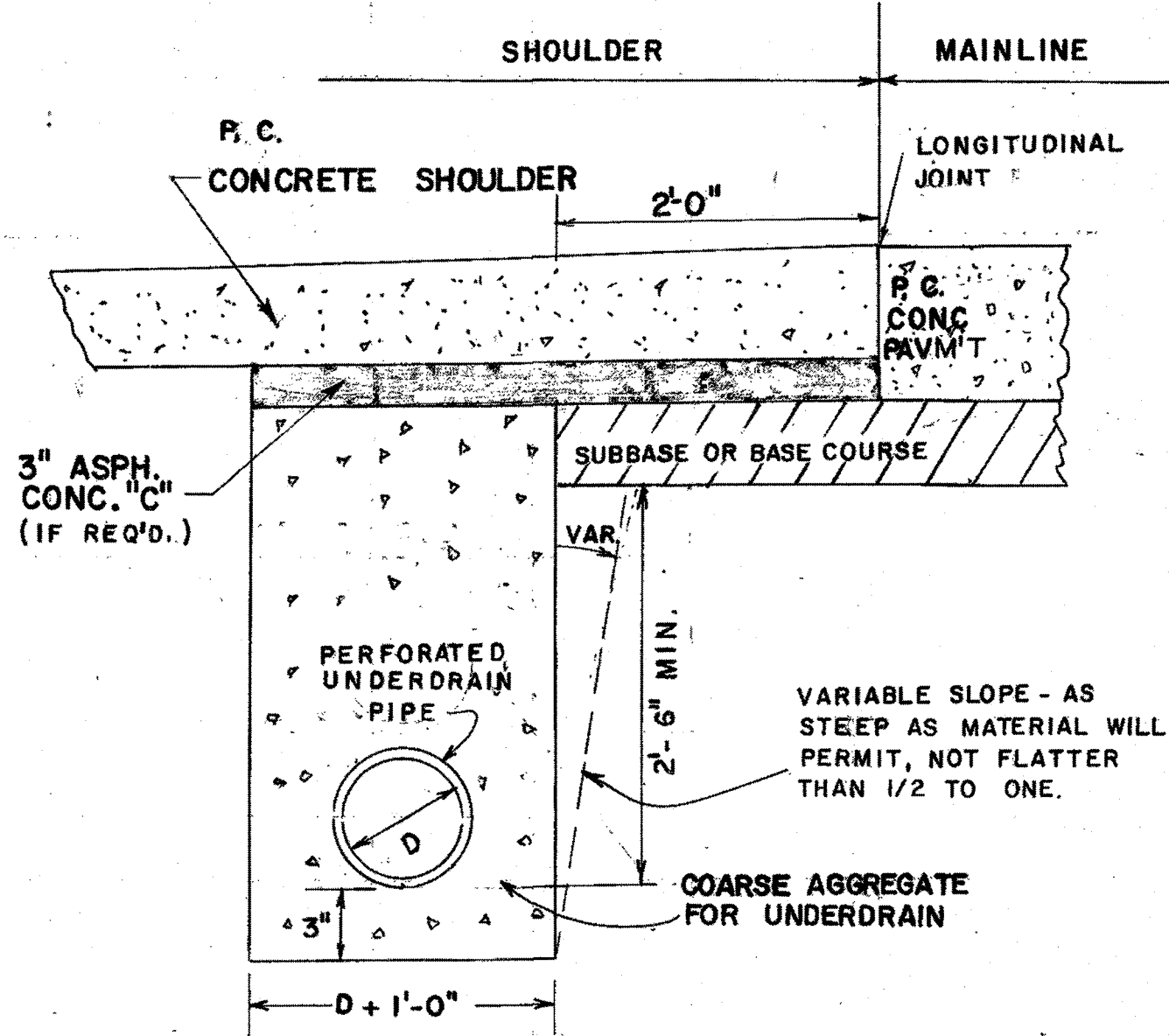
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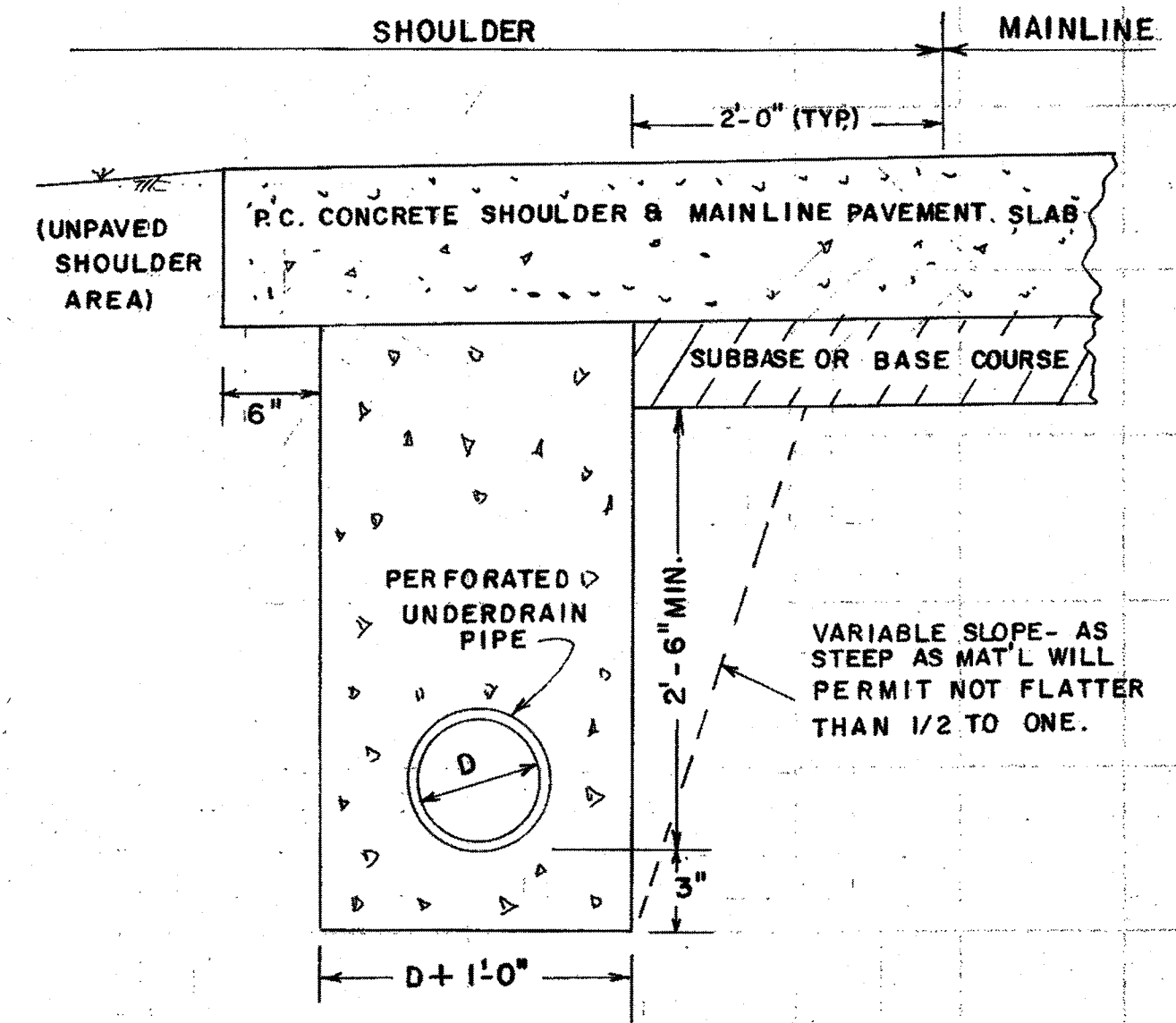
GENERAL DETAIL



ASPHALT SHOULDER - P.C.C. PAVEMENT



UNDER CONCRETE SHOULDER



UNDER CONCRETE SHOULDER*
*CONSTRUCTED MONOLITHIC WITH MAINLINE
4'-0" PAVED SHOULDER SHOWN

PERFORATED UNDERDRAIN — TYPICAL INSTALLATIONS

*NOTE: PERFORATED UNDERDRAIN PIPE WILL BE INSTALLED COMPLETE PRIOR TO PLACING PERVIOUS SUB-BASE OR DRAINAGE COURSE.

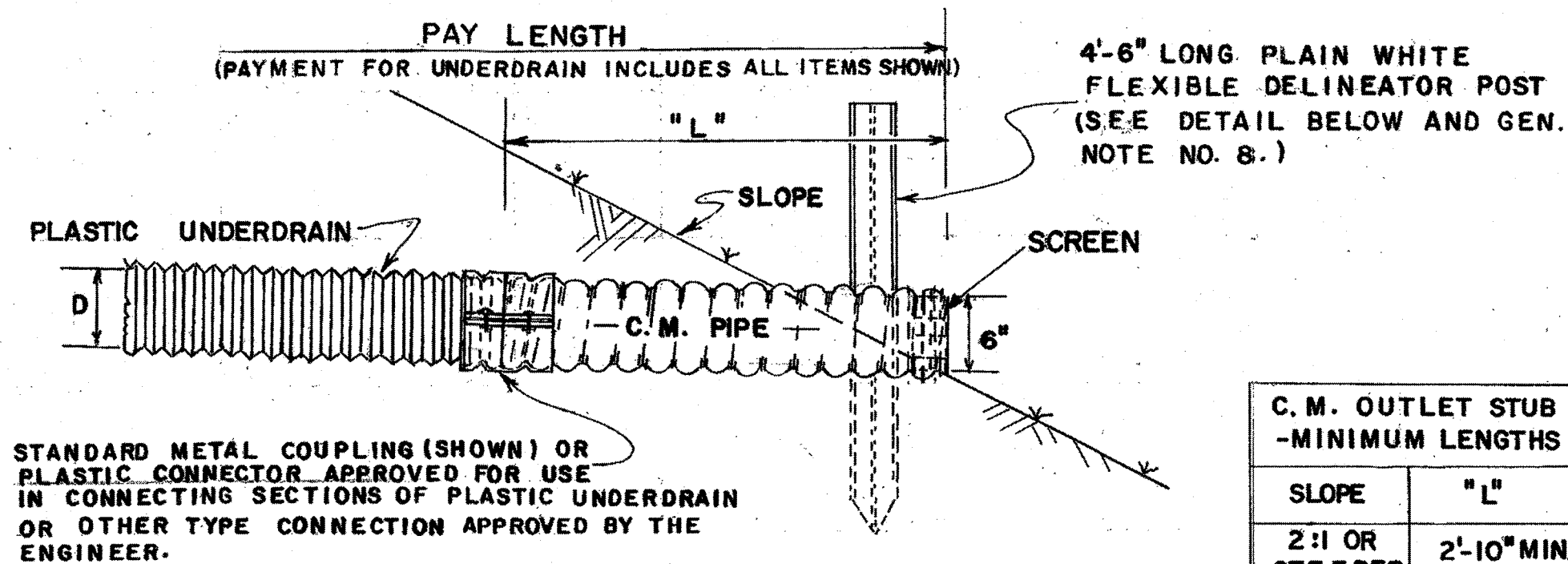
SPECIAL NOTE:

DETAILS SHOWN HERE ARE TYPICAL AND MAY BE USED BY THE DESIGNER AS A GUIDE IN PREPARING TYPICAL SECTIONS. MINIMUM TRENCH DEPTHS & TRENCH WIDTHS SHOULD BE ADHERED TO AS SHOWN HOWEVER. SHOULDER DETAILS, PAVEMENT DESIGNS, DRAINAGE COURSES, ETC., WILL BE AS SHOWN ON THE TYPICAL SECTIONS FOR THE PROJECT AND MAY VARY FROM THE DEPICTIONS ABOVE. ON CONSTRUCTION, THE TYPICAL SECTIONS IN THE PLANS SHOULD BE USED FOR SPECIFIC DETAILS. IF UNDERDRAIN IS NOT SHOWN ON THE TYPICAL SECTIONS OR ELSEWHERE IN THE PROJECT PLANS, INSTALLATION WILL BE AS SHOWN ABOVE AND AS DIRECTED BY THE ENGINEER.

GENERAL NOTES.

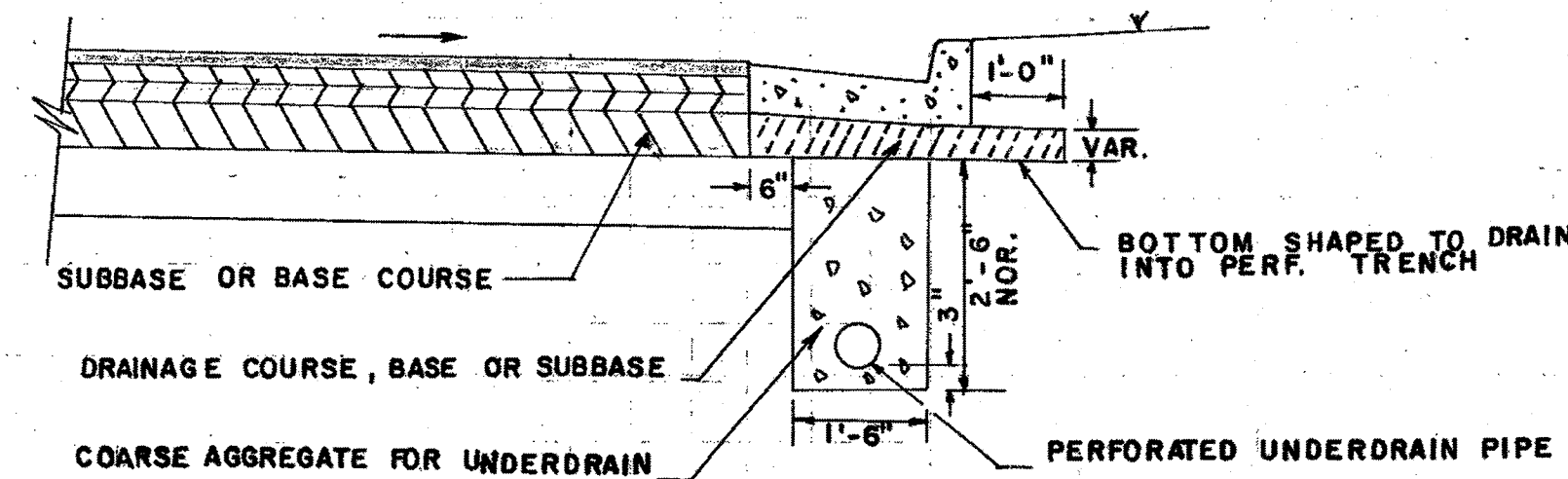
- UNDERDRAINS MAY BE PLACED IN SHOULDER AREAS OR AS TRANSVERSE DRAINAGE UNDER PAVEMENT. SEE TYPICAL SECTION AND PLAN AND PROFILE SHEETS FOR SPECIAL CONDITIONS.
- TRENCH SHALL BE SHAPED WITH SIDES AS NEARLY VERTICAL AS IS PRACTICAL AND WITH A FLAT BOTTOM.
- MINIMUM GRADIENT FOR UNDERDRAIN PIPE SHALL BE 0.15%.
- MAXIMUM DISTANCE BETWEEN OUTLETS SHALL BE 400' TO 500' WHERE CONDITIONS PERMIT.
- DEAD ENDS OF PIPE SHALL BE CLOSED WITH METAL OR PLASTIC CAPS OR CONCRETE PLUGS. OUTFALL ENDS OF PIPE SHALL BE EQUIPPED WITH SCREEN.
- LATERAL CONNECTIONS SHALL BE MADE WITH SUITABLE STANDARD FITTINGS (ELLS, WYES OR TEES AS DETAILED).
- THE DIMENSIONS (a thru g) SHOWN ON THE LATERAL CONNECTIONS FOR THE VARIOUS KINDS AND SIZES OF PERFORATED UNDERDRAIN SHALL BE IN AGREEMENT WITH THE MANUFACTURERS' STANDARD PRACTICE.
- PLAIN WHITE (NO REFLECTIVE SHEETING) FLEXIBLE DELINEATOR POSTS WILL BE REQUIRED AT ALL OUTLETS EXITING ON SLOPES, BUT NOT REQUIRED IF UNDERDRAIN EXISTS IN CONC. DITCH PAVING, DROP INLETS, ETC., POSTS WILL BE 2 FT. ± IN THE GROUND PLACED AS DIRECTED BY THE ENGINEER, SO AS TO BE MOST VISIBLE TO MOWERS, PAYMENT FOR UNDERDRAIN WILL INCLUDE THE DELINEATORS.

OUTLET DETAIL FOR PLASTIC UNDERDRAIN (REQUIRED AT ALL OUTLETS WHERE PERFORATED PLASTIC UNDERDRAIN IS TERMINATED ON SLOPES).

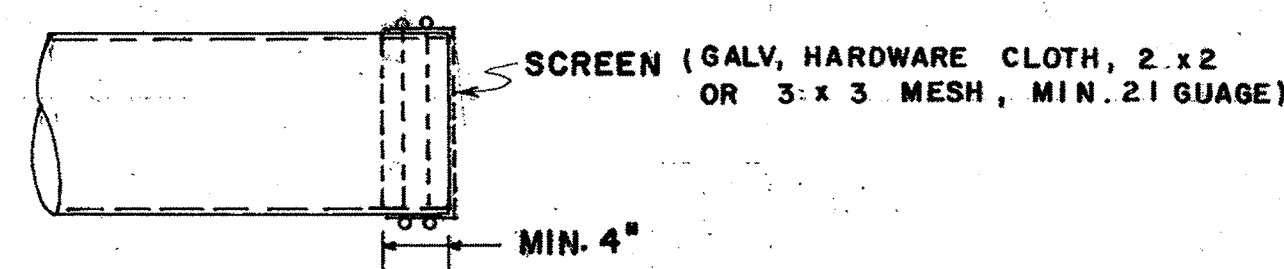


NOTE: "L" = MINIMUM LENGTH OF CORRUGATED METAL PIPE SECTION. THE C.M. OUTLET STUB SECTION MAY BE PERFORATED OR MAY BE NON-PERFORATED.

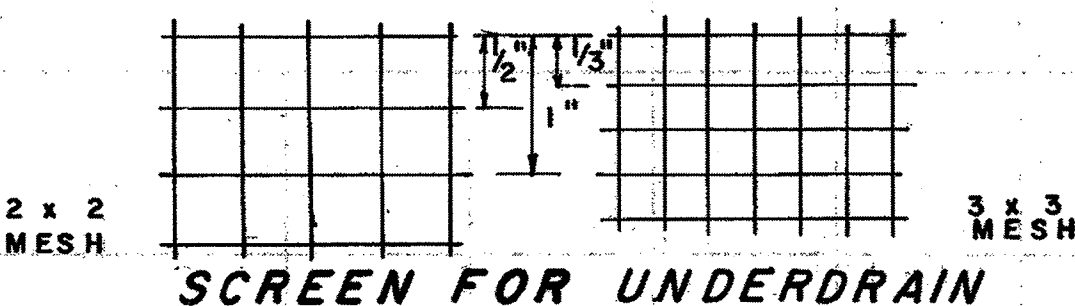
C.M. OUTLET STUB - MINIMUM LENGTHS	
SLOPE	"L"
2:1 OR STEEPER	2'-10" MIN.
2+1 TO 4:1	5'-0" MIN.
4+1 TO 6:1	10'-0" MIN.
FLATTER THAN 6:1	14'-0" MIN.



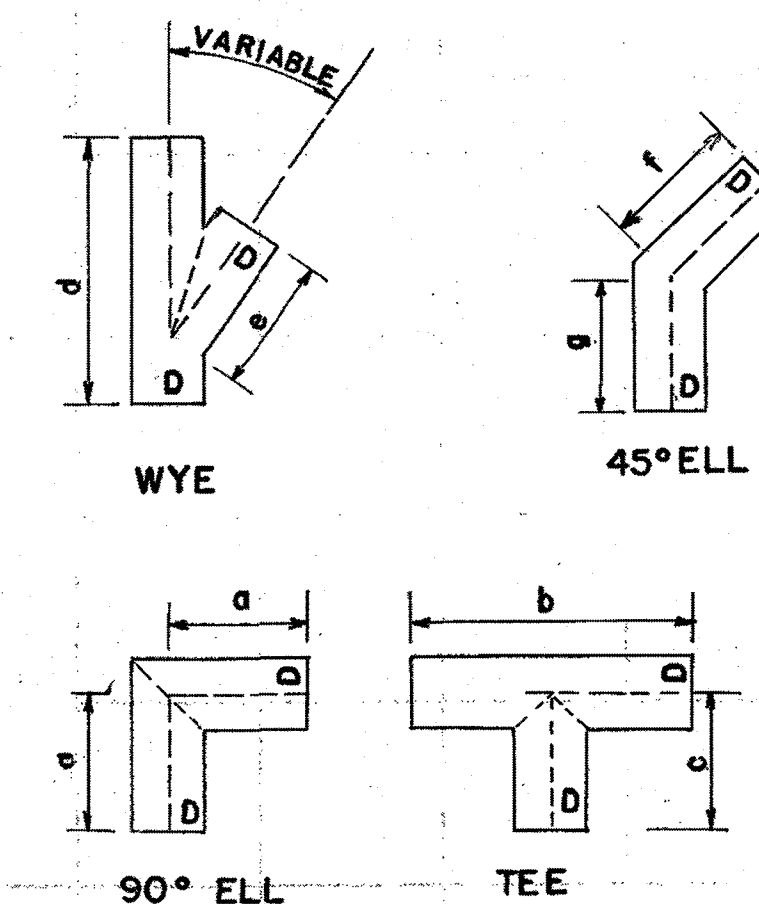
UNDER CURB & GUTTER



SCREEN TO BE PLACED OVER THE END OF PIPE AS SHOWN AND SECURED FIRMLY IN PLACE BY WRAPPING GALVANIZED WIRE AROUND PIPE AND SCREEN OTHER METHODS FOR SECURING SCREEN FIRMLY OVER END OF PIPE MAY BE USED IF APPROVED BY THE ENGINEER.



SCREEN FOR UNDERDRAIN



DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
STANDARD	
PERFORATED UNDERDRAIN	
ADD C & G DITCH INSTALL 8-17-83 ADD MONOLITHIC CONC. SHOULDER 5-27-81 FLEXIBLE DELINEATOR 12-20-81	REV. & REDR. JULY 1980
NO SCALE	NUMBER
REV. R.M.U. TRA. S.M.E. CHK. R.K.C.	9029B

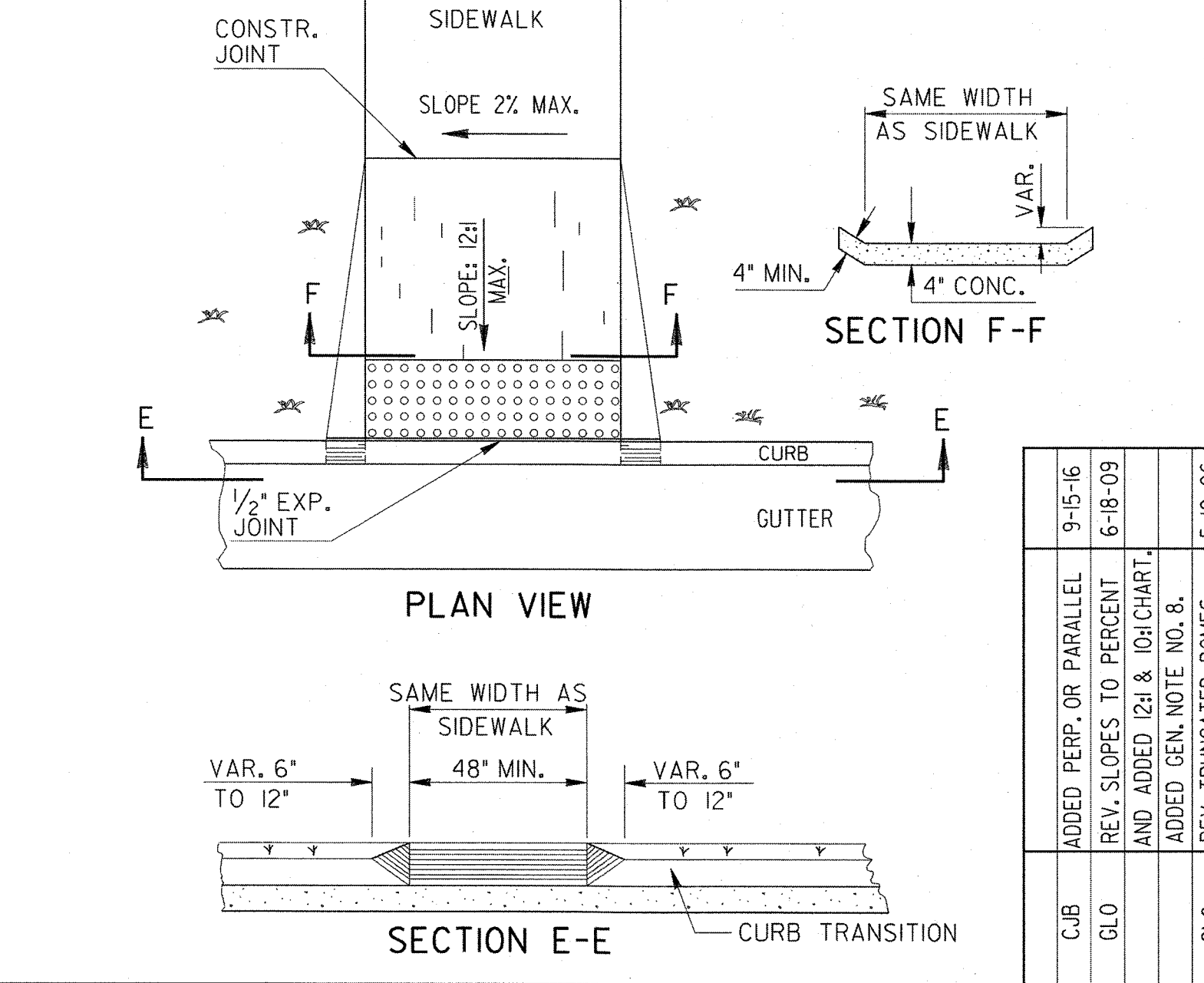
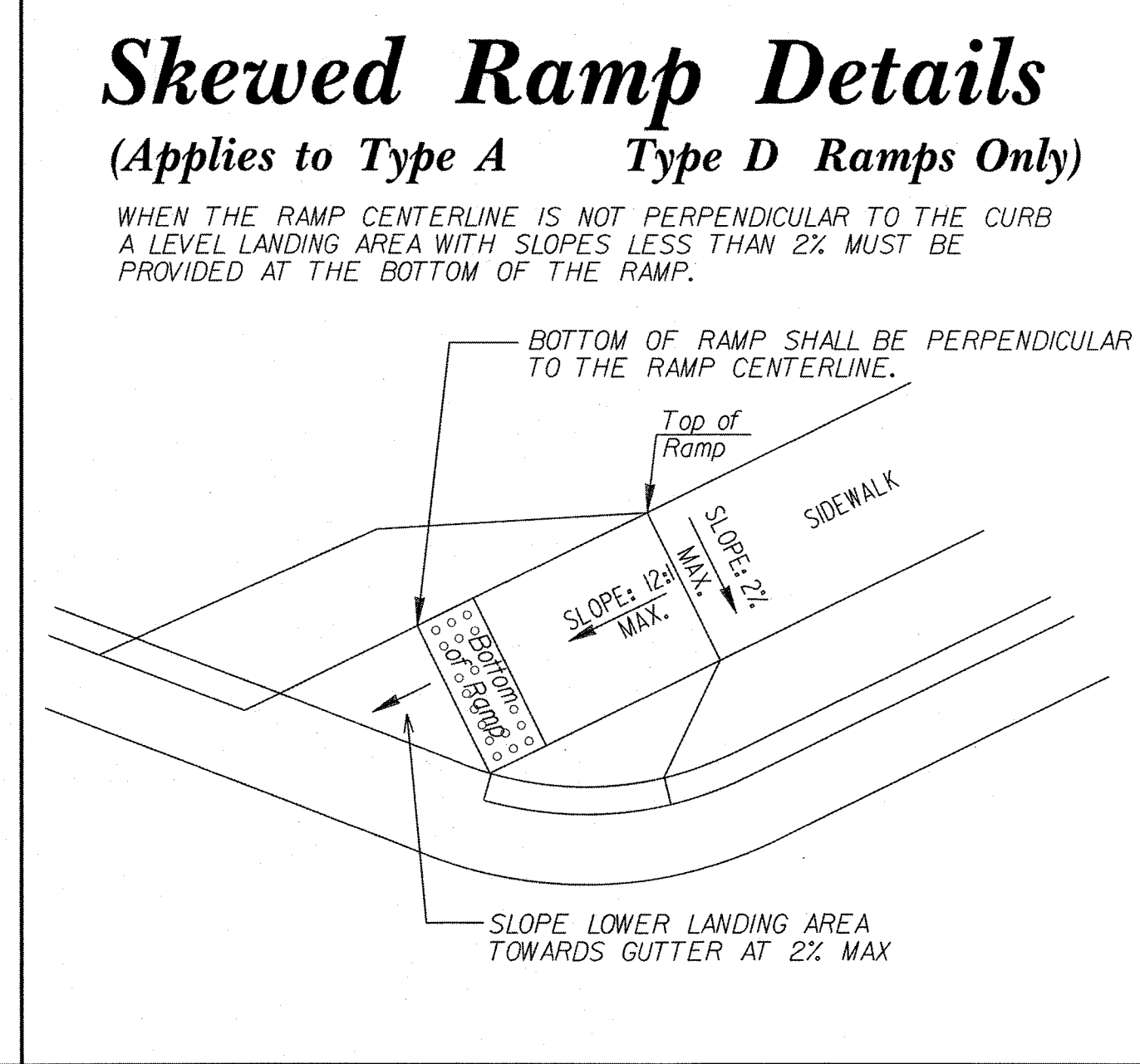
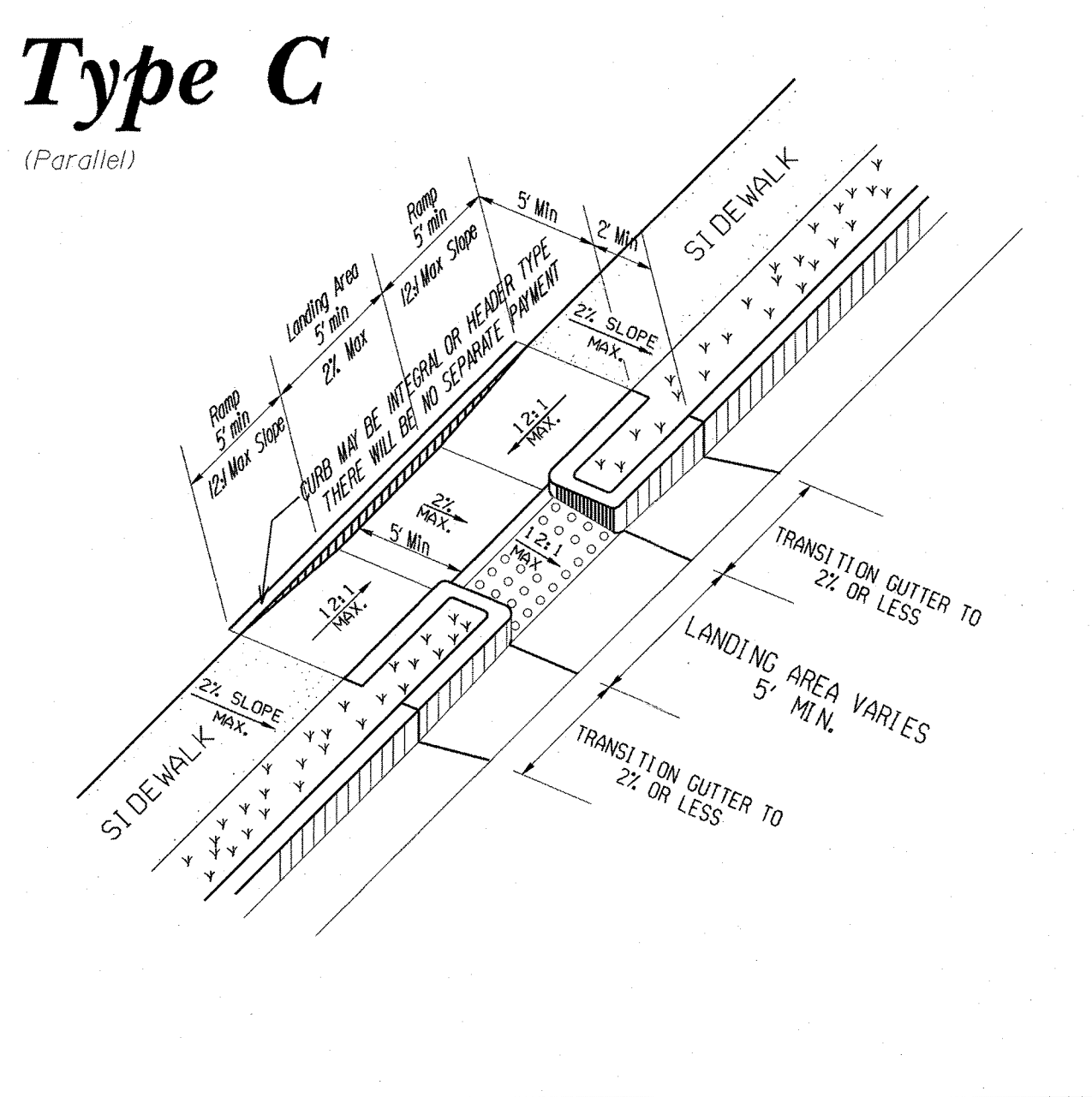
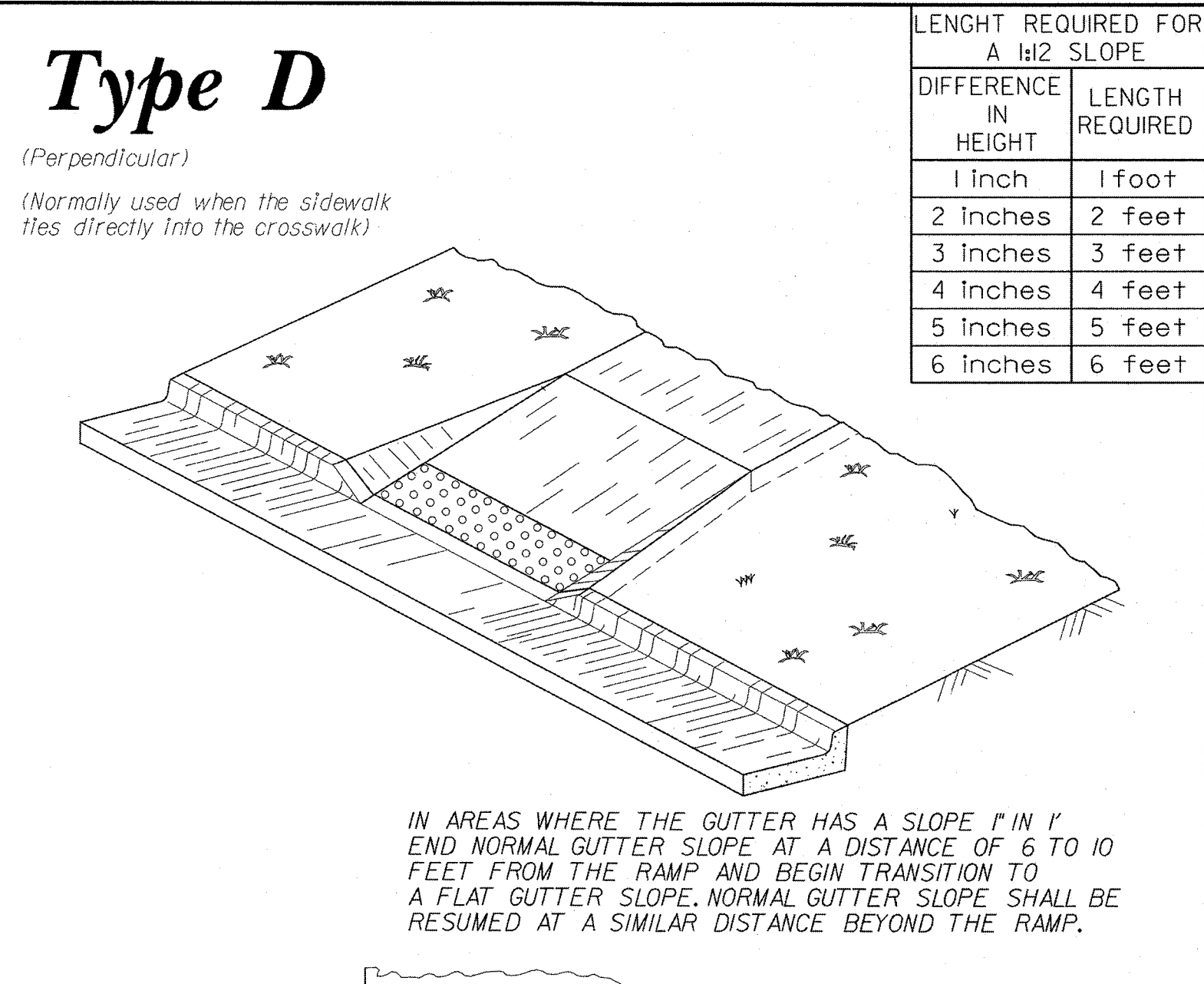
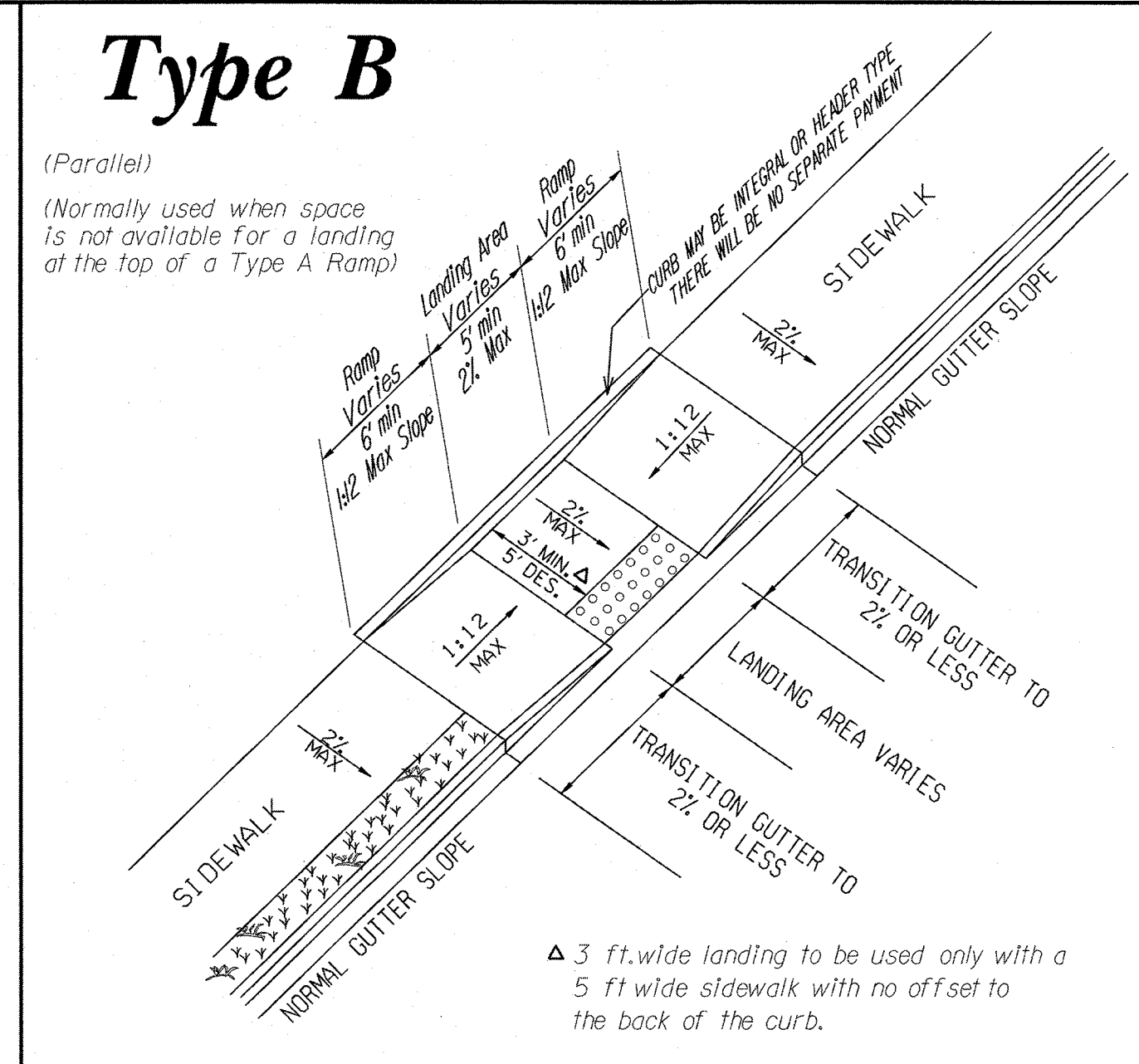
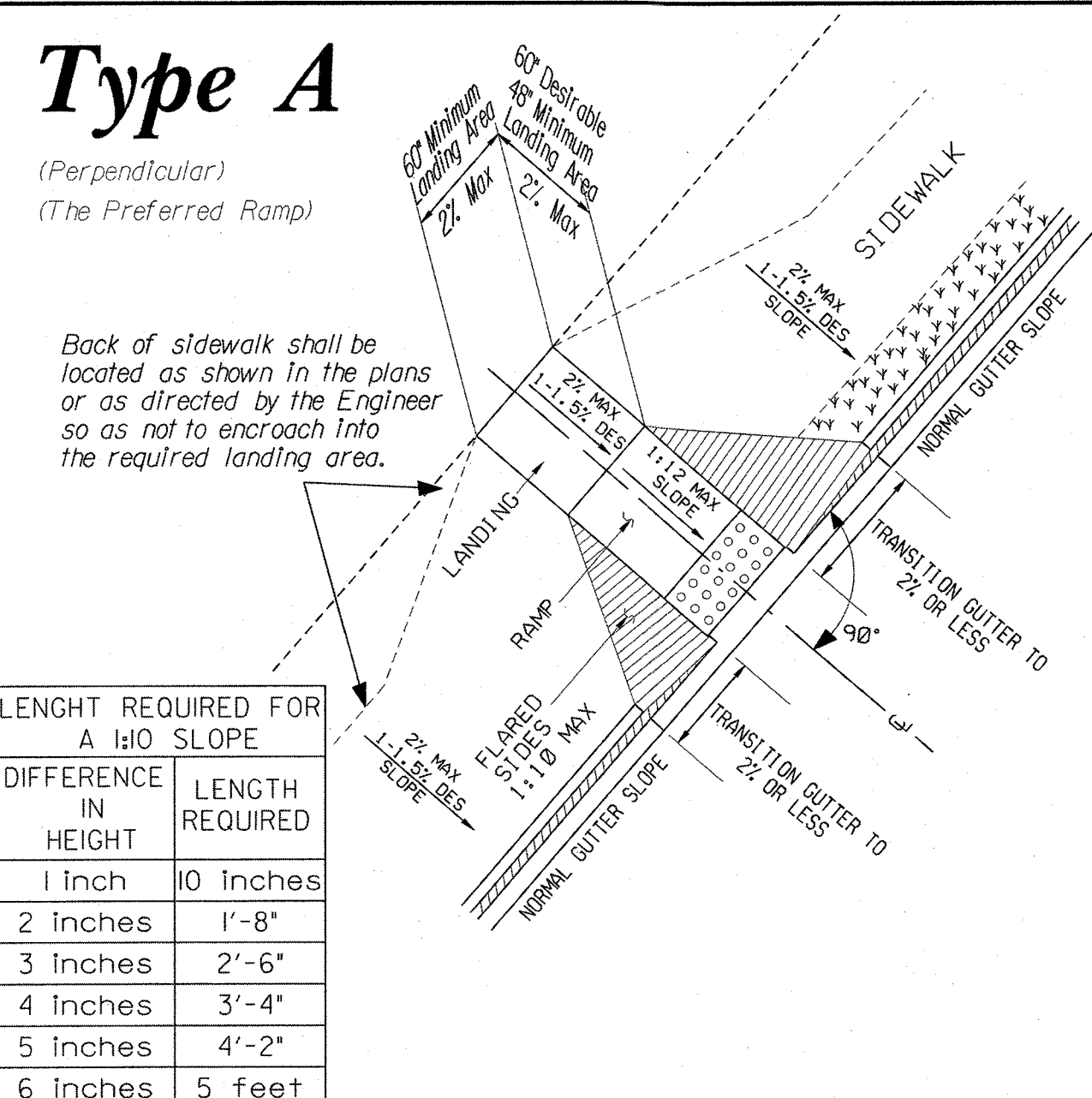
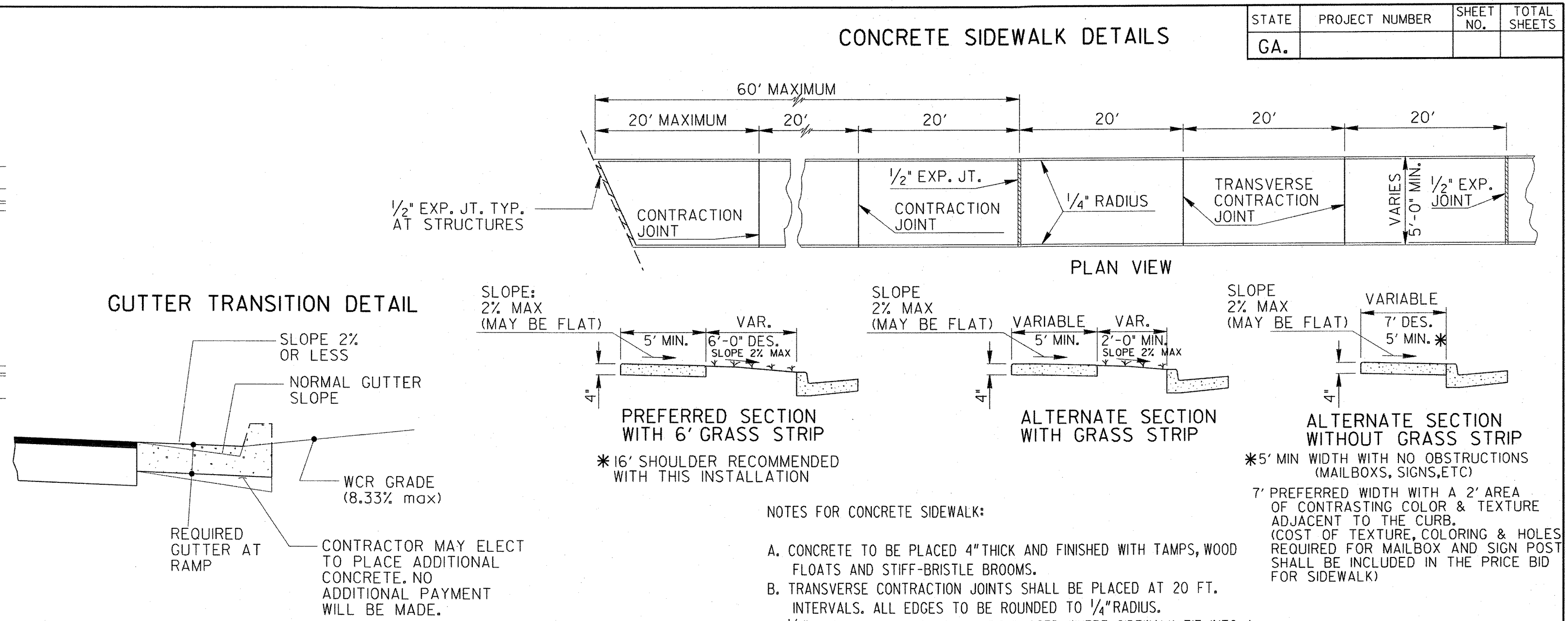
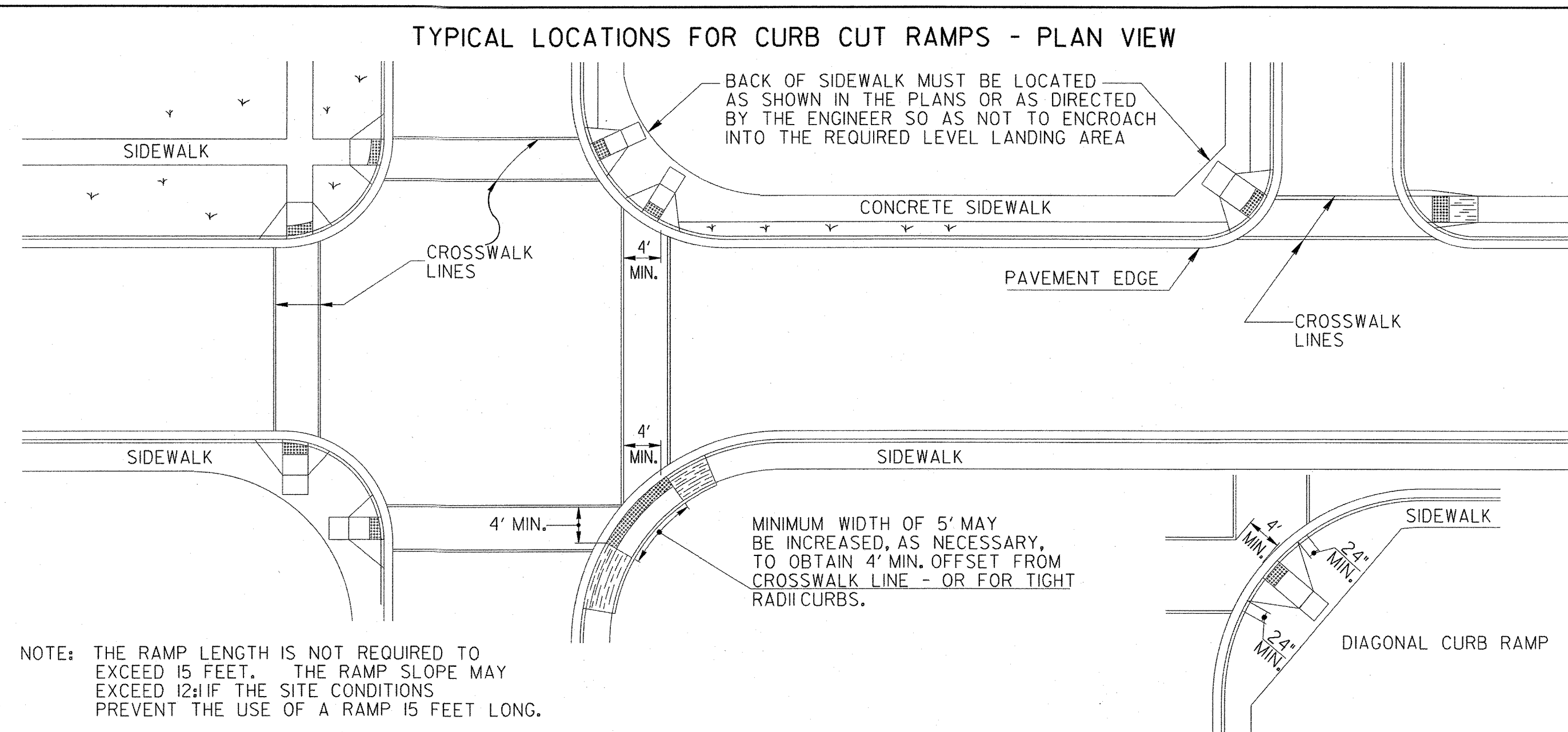
ADJACENT TO DITCH

DELINEATOR POST SECTION (TYP.)

COLOR: WHITE

LENGTH: 4'-6" (from top to bottom point)

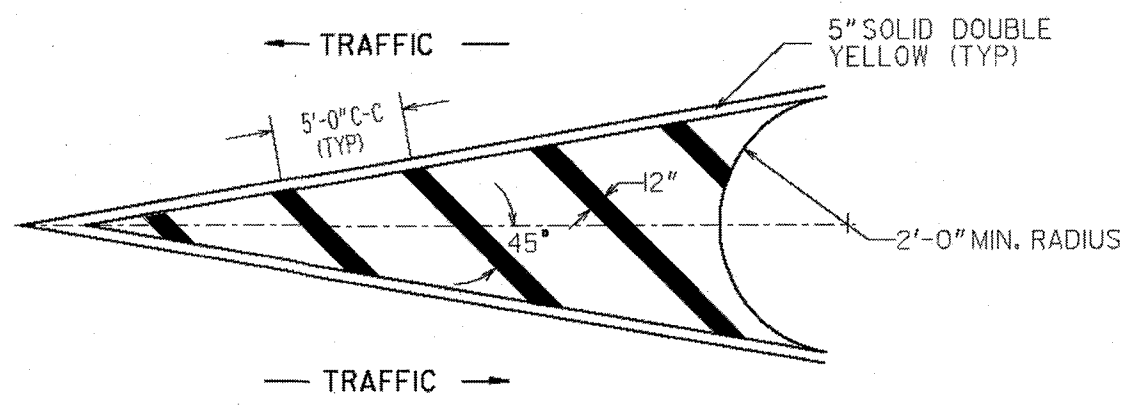
SPECIFICATION: SEC. 911 (EXCEPT REFLECTIVE SHEETING IS NOT REQUIRED)



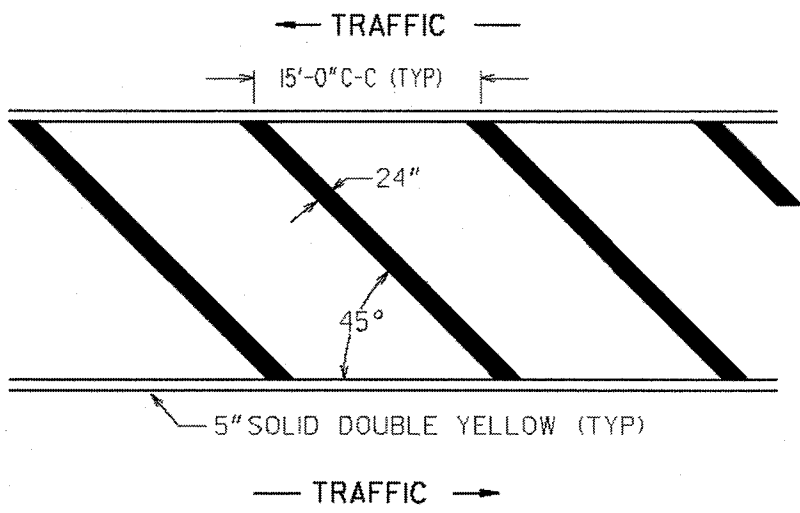
- NOTES FOR CONCRETE SIDEWALK:
- CONCRETE TO BE PLACED 4\"/>
 - TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4\"/>
 - 1/2\"/>
- NOTES FOR CURB CUT RAMPS:
- CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
 - AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
 - WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
 - AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC., WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
 - RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
 - DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
 - WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
 - WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
 - 1 IN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SO. YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
 - WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
 - DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.
- This Detail Replaces Ga Standard 9031W**
Guidelines For Usage On Metric Projects
- When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" = 25mm, 4" = 100mm, and 12" or 1' = 300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA										DATE	
REVISED	REVISED	REVISED	REVISED	REVISED	REVISED	REVISED	REVISED	REVISED	REVISED	REVISION	DATE
9-15-16	6-18-03	5-10-06	2-21-03	2-10-03	7-29-02	5-23-02	5-13-02	4-29-02	4-11-02	3-28-02	
ADDED PERP. OR PARALLEL	REV. SLOPES TO PERCENT	ADDED GEN. NOTE NO. 8.	REV. TRUNCATED DOMES	REVISED	REVISED	REVISED	REVISED	REVISED	REVISED		
CJB	GLO	GLO									
NO SCALE										MARCH 12, 2002	
SPECIAL DETAIL CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS										NUMBER A3	

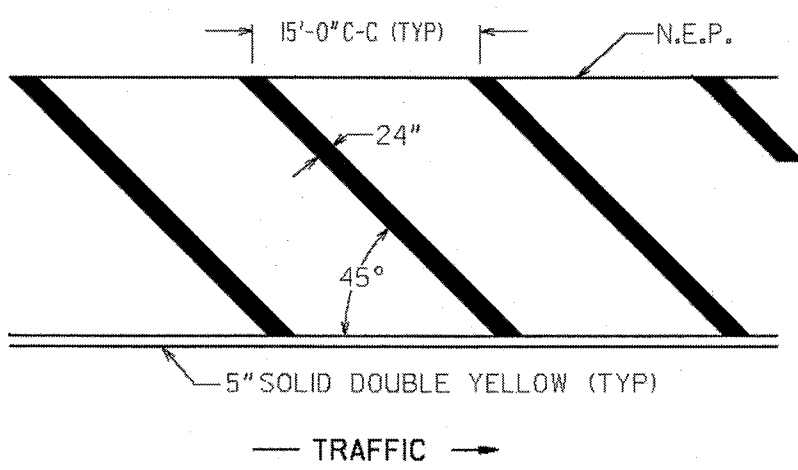
DETAIL "A"(YELLOW)



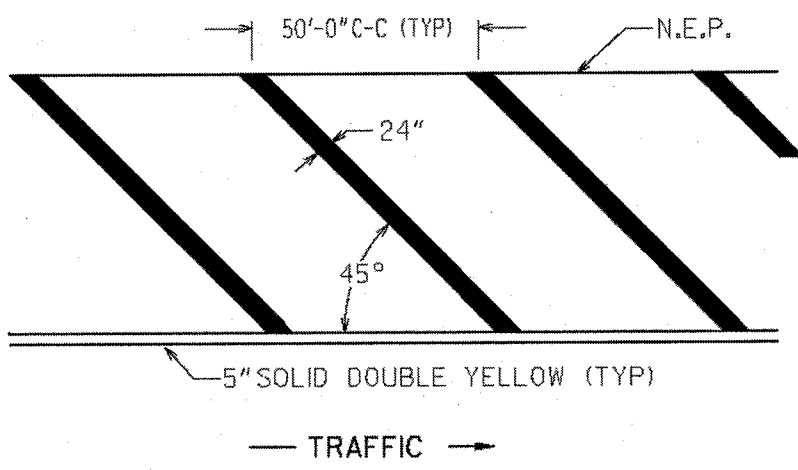
DETAIL "B"(YELLOW)



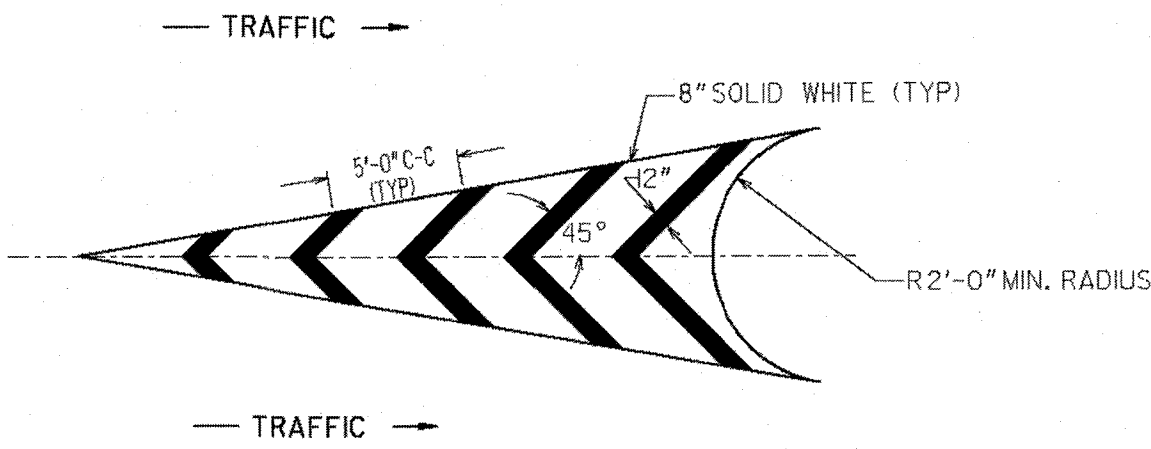
DETAIL "C"(YELLOW)



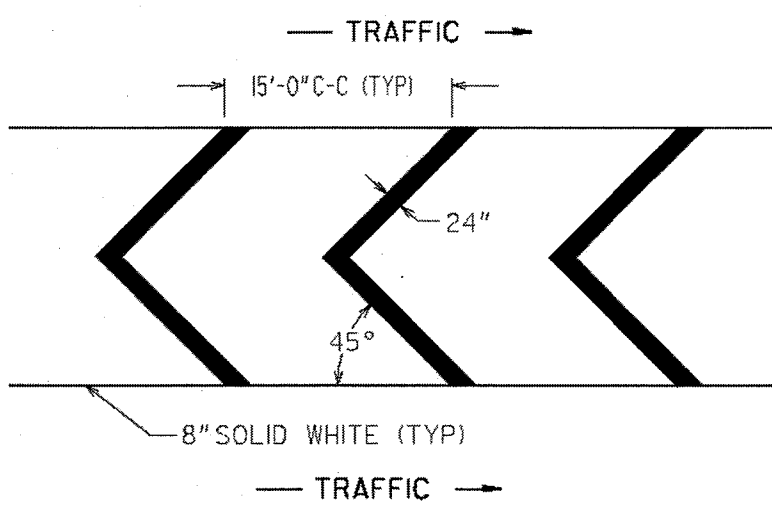
DETAIL "D"(YELLOW)



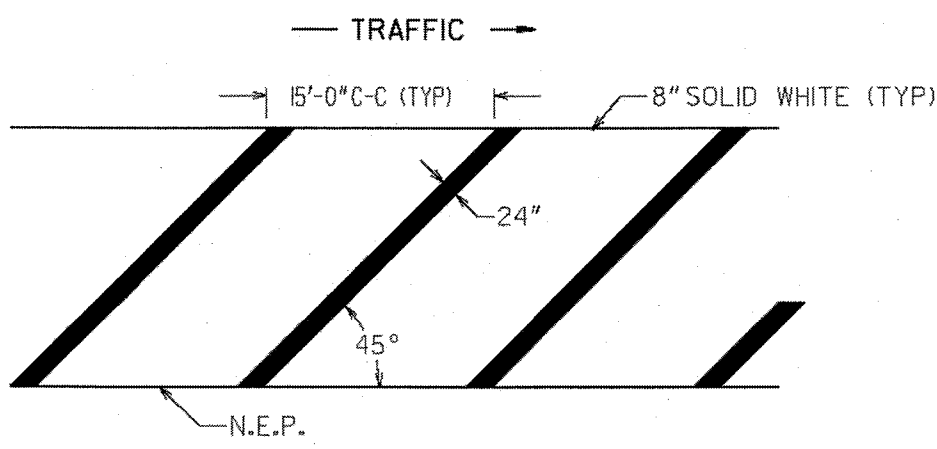
DETAIL "A"(WHITE)



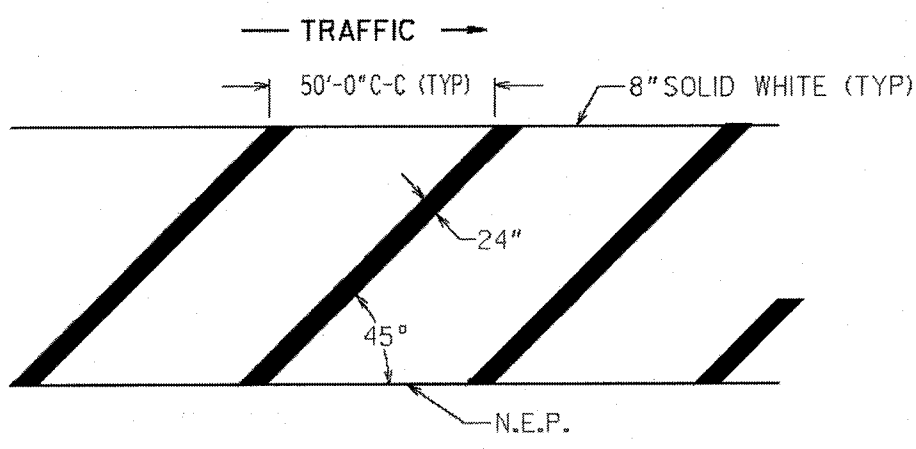
DETAIL "B"(WHITE)



DETAIL "C"(WHITE)



DETAIL "D"(WHITE)



- GENERAL NOTES:
- 1. FOR YELLOW STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDE THE AREA WITHIN THE BORDERS AND THE 5" SOLID DOUBLE YELLOW BORDER.
 - 2. FOR WHITE STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS AS WELL AS THE 8" SOLID WHITE BORDER.

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

- NO SCALE -

DATE	REVISIONS	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
6/25/04	Modified general note 1	OFFICE: TRAFFIC OPERATIONS	
1/18/05	CHANGED BORDER	SIGNING AND MARKING PLANS	
11/21/08	Modified general note 1	DETAIL OF PAVEMENT MARKING HATCHING	
		JANUARY 2000	
		NUMBER T-14	

