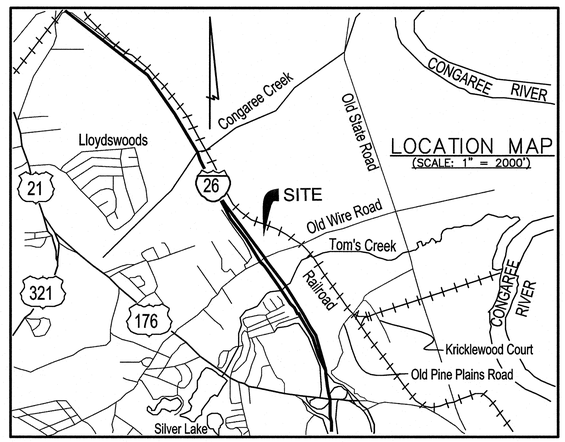
SITE CONSTRUCTION DRAWINGS

FOR

LEXINGTON COUNTY SPECULATIVE BUILDING

LOCATED IN THE NORTHWESTERN QUADRANT OF THE INTERSECTION OF OLD WIRE ROAD AND RAILROAD TRACKS

LEXINGTON COUNTY, SOUTH CAROLINA



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C3.....SITE PLAN
C4.....GRADING PLAN
C5.....STORM DRAINAGE PLAN
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C7.....SANITARY SEWER PLAN
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The Palmetto Utility Protection Service, Inc.
832 Dutch Square Blvd, Suite 320 Columbia, South Carolina 29210 (803) 939-1117

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CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.

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UTILITY CONTACTS:

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SCE&G CO.
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FAX (803) 733-4109

NATURAL GAS SERVICE:
SCE&G
ROLANDO ADAMS
6011 SHAKESPEARE ROAD
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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 JAMES L. PRUETT, III 8/27/14

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS		
No.	DATE	DESCRIPTION

DEVELOPER:
MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA

COVER SHEET

TMS 008098-01-023

BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C1
DATE 08/27/2014	

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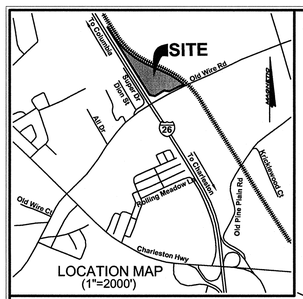

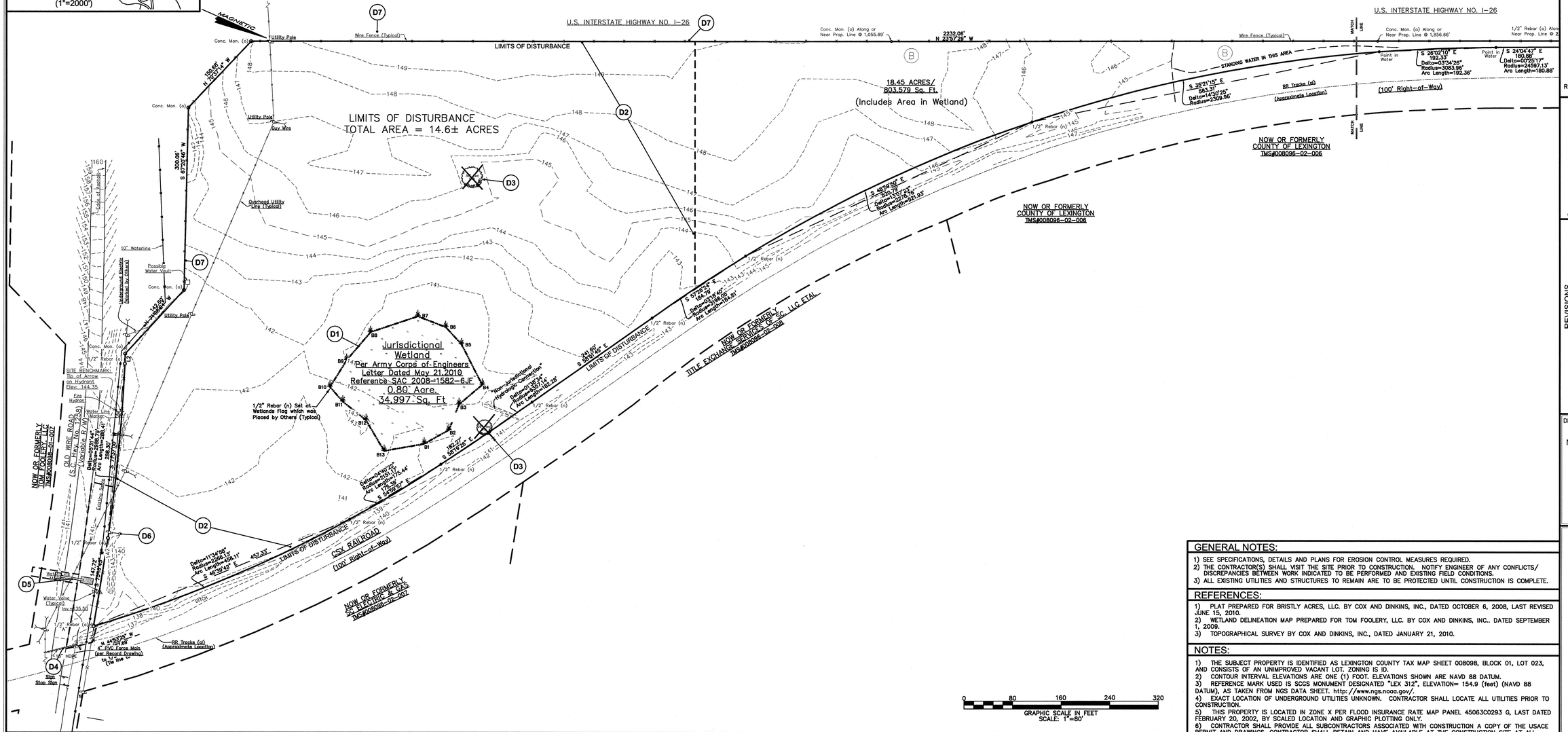

GRAPHIC SCALE IN FEET
SCALE: 1"=80'

CODED DEMOLITION NOTES

- (D1) WETLANDS TO BE FILLED PER PERMIT #2008-1515-6IF.
- (D2) LIMITS OF DISTURBANCE (TYPICAL). SEE GRADING PLAN.
- (D3) EXISTING TREE TO BE REMOVED AND DISPOSED OF. SEE LANDSCAPING PLAN.
- (D4) CONTRACTOR SHALL CLEAN EXISTING 18" HDPE CULVERT. REMOVE ALL TREE DEBRIS AND ENSURE POSITIVE DRAINAGE.
- (D5) BORE UNDER OLD WIRE ROAD AS SHOWN TO ACCOMMODATE NEW SANITARY SEWER LINE (SEE SHEET SANITARY SEWER PLAN).
- (D6) EXISTING POWER POLE AND GUY WIRE TO BE RELOCATED TO ACCOMMODATE DRIVEWAY (SEE SITE PLAN). CONTRACTOR SHALL COORDINATE RELOCATION WITH UTILITY PROVIDER.
- (D7) CONTRACTOR SHALL REMOVE VEGETATION FROM EXISTING CHAIN LINK FENCE, AND SHALL CLEAN AND PATCH FENCE AS NECESSARY (COORDINATE WITH OWNER).

NOTE TO CONTRACTOR:

PRIOR TO ANY DEMOLITION CONTRACTOR SHALL EXAMINE THE STORM WATER POLLUTION PREVENTION PLANS AND MANUAL TO MINIMIZE SEDIMENTATION AND EROSION.

DEMOLITION / CLEARING NOTES:

1) THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS TO BE DEMOLISHED AND REMOVED FROM THE SITE. THE VERIFICATION PROCESS SHALL INCLUDE VISITING AND WALKING THE SITE. ALL ITEMS REQUIRING DEMOLITION/REMOVAL, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2) THE PROJECT SITE SHALL BE CLEARED AND GRUBBED BY THE CONTRACTOR AS REQUIRED TO COMPLETE THE CONSTRUCTION AS SHOWN ON THE ACCOMPANYING PLANS. HOWEVER, EXISTING TREES NOT IN THE CLEARING AREA SHALL BE PROTECTED BY THE CONTRACTOR.
3) THERE SHALL BE NO BURNING ON SITE; UNLESS AUTHORIZED BY APPROPRIATE AUTHORITY.
4) THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL AND/OR RELOCATION OF ALL UTILITIES (ABOVE AND BELOW GROUND LEVEL) AS NECESSARY TO ACCOMMODATE THE IMPROVEMENTS SHOWN ON THESE PLANS AND AS REQUIRED TO FACILITATE CONSTRUCTION.
5) EROSION AND SEDIMENT CONTROL DEVICES MUST BE IN PLACE PRIOR TO DEMOLITION.
6) IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE AGENCIES FOR PROPER REMOVAL AND DISPOSAL.
7) DEMOLITION SHALL MEET ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS.
8) ALL DEMOLISHED ITEMS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF OR AS DIRECTED BY THE OWNER. COORDINATE WITH OWNER FOR ANY SALVAGE ITEMS.
9) CONTRACTOR TO COORDINATE WITH OWNER FOR REMOVAL OR ABANDONMENT OF ELECTRICAL UTILITIES.
10) CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IF ANY WELLS ARE FOUND ONSITE.

GENERAL NOTES:

1) SEE SPECIFICATIONS, DETAILS AND PLANS FOR EROSION CONTROL MEASURES REQUIRED.
2) THE CONTRACTOR(S) SHALL VISIT THE SITE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS/ DISCREPANCIES BETWEEN WORK INDICATED TO BE PERFORMED AND EXISTING FIELD CONDITIONS.
3) ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN ARE TO BE PROTECTED UNTIL CONSTRUCTION IS COMPLETE.

REFERENCES:

1) PLAT PREPARED FOR BRISTLY ACRES, LLC. BY COX AND DINKINS, INC., DATED OCTOBER 6, 2008, LAST REVISED JUNE 15, 2010.
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NOTES:

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2) CONTOUR INTERVAL ELEVATIONS ARE ONE (1) FOOT. ELEVATIONS SHOWN ARE NAVD 88 DATUM.
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4) EXACT LOCATION OF UNDERGROUND UTILITIES UNKNOWN. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
5) THIS PROPERTY IS LOCATED IN ZONE X PER FLOOD INSURANCE RATE MAP PANEL 45063C0293 G, LAST DATED FEBRUARY 20, 2002, BY SCALED LOCATION AND GRAPHIC PLOTTING ONLY.
6) CONTRACTOR SHALL PROVIDE ALL SUBCONTRACTORS ASSOCIATED WITH CONSTRUCTION A COPY OF THE USACE PERMIT AND DRAWINGS. CONTRACTOR SHALL RETAIN AND HAVE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES A COPY OF THE USACE PERMIT.

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MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

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Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA

EXISTING CONDITIONS & DEMOLITION PLAN

TMS	008098-01-023
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C2
DATE 08/27/2014	

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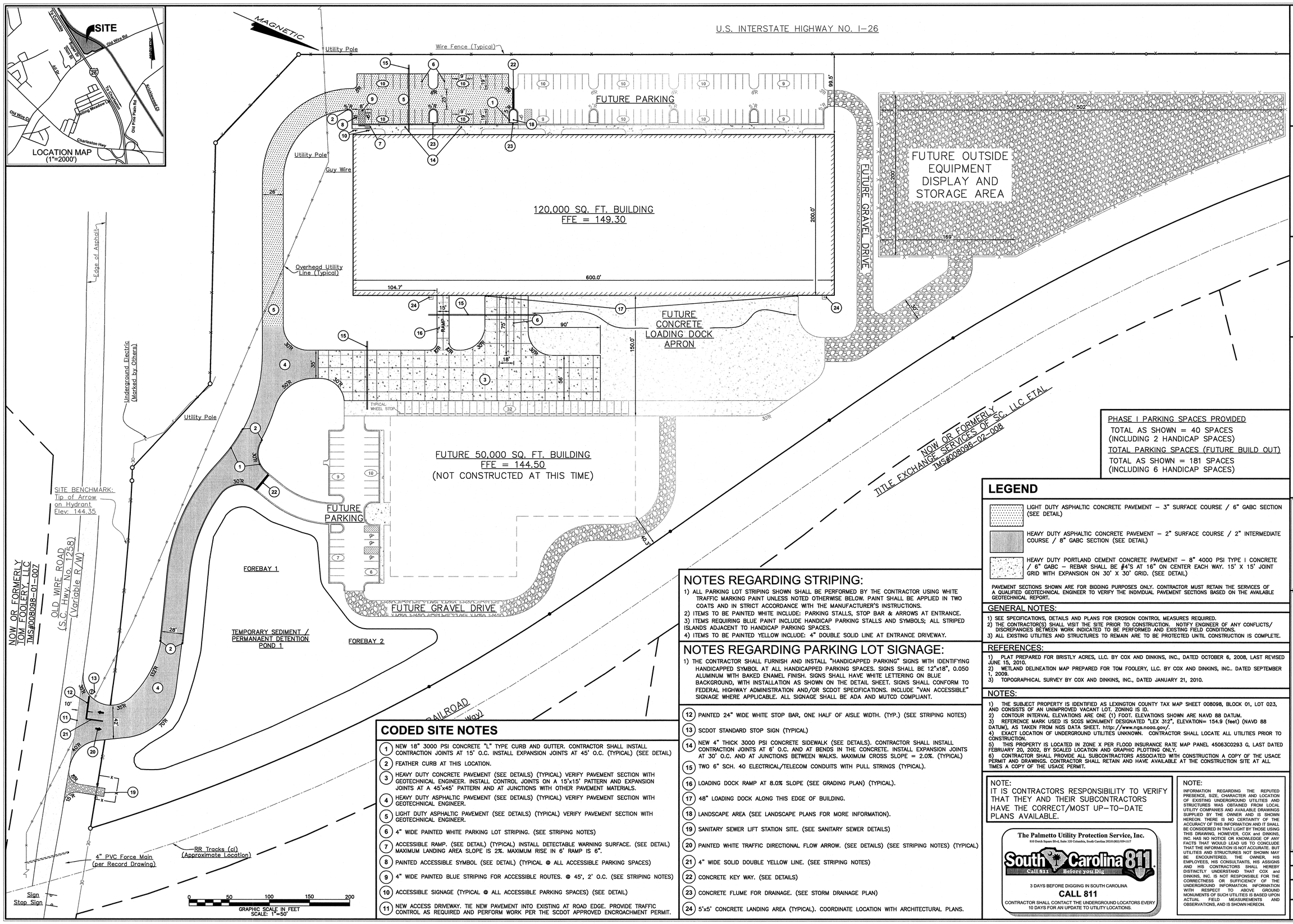

PHASE I PARKING SPACES PROVIDED

TOTAL AS SHOWN = 40 SPACES
(INCLUDING 2 HANDICAP SPACES)

TOTAL PARKING SPACES (FUTURE BUILD OUT)

TOTAL AS SHOWN = 181 SPACES
(INCLUDING 6 HANDICAP SPACES)

NOTES REGARDING STRIPING:

1) ALL PARKING LOT STRIPING SHOWN SHALL BE PERFORMED BY THE CONTRACTOR USING WHITE TRAFFIC MARKING PAINT UNLESS NOTED OTHERWISE BELOW. PAINT SHALL BE APPLIED IN TWO COATS AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2) ITEMS TO BE PAINTED WHITE INCLUDE: PARKING STALLS, STOP BAR & ARROWS AT ENTRANCE.
3) ITEMS REQUIRING BLUE PAINT INCLUDE HANDICAP PARKING STALLS AND SYMBOLS; ALL STRIPED ISLANDS ADJACENT TO HANDICAP PARKING SPACES.
4) ITEMS TO BE PAINTED YELLOW INCLUDE: 4" DOUBLE SOLID LINE AT ENTRANCE DRIVEWAY.

NOTES REGARDING PARKING LOT SIGNAGE:

1) THE CONTRACTOR SHALL FURNISH AND INSTALL "HANDICAPPED PARKING" SIGNS WITH IDENTIFYING HANDICAPPED SYMBOL AT ALL HANDICAPPED PARKING SPACES. SIGNS SHALL BE 12"x18", 0.050 ALUMINUM WITH BAKED ENAMEL FINISH. SIGNS SHALL HAVE WHITE LETTERING ON BLUE BACKGROUND, WITH INSTALLATION AS SHOWN ON THE DETAIL SHEET. SIGNS SHALL CONFORM TO FEDERAL HIGHWAY ADMINISTRATION AND/OR SCDOT SPECIFICATIONS. INCLUDE "VAN ACCESSIBLE" SIGNAGE WHERE APPLICABLE. ALL SIGNAGE SHALL BE ADA AND MUTCD COMPLIANT.

CODED SITE NOTES

1. NEW 18" 3000 PSI CONCRETE "L" TYPE CURB AND GUTTER. CONTRACTOR SHALL INSTALL CONTRACTION JOINTS AT 15' O.C. INSTALL EXPANSION JOINTS AT 45' O.C. (TYPICAL) (SEE DETAIL)
2. FEATHER CURB AT THIS LOCATION.
3. HEAVY DUTY CONCRETE PAVEMENT (SEE DETAILS) (TYPICAL) VERIFY PAVEMENT SECTION WITH GEOTECHNICAL ENGINEER. INSTALL CONTROL JOINTS ON A 15'x15' PATTERN AND EXPANSION JOINTS AT A 45'x45' PATTERN AND AT JUNCTIONS WITH OTHER PAVEMENT MATERIALS.
4. HEAVY DUTY ASPHALTIC PAVEMENT (SEE DETAILS) (TYPICAL) VERIFY PAVEMENT SECTION WITH GEOTECHNICAL ENGINEER.
5. LIGHT DUTY ASPHALTIC PAVEMENT (SEE DETAILS) (TYPICAL) VERIFY PAVEMENT SECTION WITH GEOTECHNICAL ENGINEER.
6. 4" WIDE PAINTED WHITE PARKING LOT STRIPING. (SEE STRIPING NOTES)
7. ACCESSIBLE RAMP. (SEE DETAIL) (TYPICAL) INSTALL DETECTABLE WARNING SURFACE. (SEE DETAIL) MAXIMUM LANDING AREA SLOPE IS 2%. MAXIMUM RISE IN 6' RAMP IS 6".
8. PAINTED ACCESSIBLE SYMBOL (SEE DETAIL) (TYPICAL @ ALL ACCESSIBLE PARKING SPACES)
9. 4" WIDE PAINTED BLUE STRIPING FOR ACCESSIBLE ROUTES. @ 45°, 2' O.C. (SEE STRIPING NOTES)
10. ACCESSIBLE SIGNAGE (TYPICAL @ ALL ACCESSIBLE PARKING SPACES) (SEE DETAIL)
11. NEW ACCESS DRIVEWAY. TIE NEW PAVEMENT INTO EXISTING AT ROAD EDGE. PROVIDE TRAFFIC CONTROL AS REQUIRED AND PERFORM WORK PER THE SCDOT APPROVED ENCROACHMENT PERMIT.
12. PAINTED 24" WIDE WHITE STOP BAR, ONE HALF OF AISLE WIDTH. (TYP.) (SEE STRIPING NOTES)
13. SCDOT STANDARD STOP SIGN (TYPICAL)
14. NEW 4" THICK 3000 PSI CONCRETE SIDEWALK (SEE DETAILS). CONTRACTOR SHALL INSTALL CONTRACTION JOINTS AT 6' O.C. AND AT BENDS IN THE CONCRETE. INSTALL EXPANSION JOINTS AT 30' O.C. AND AT JUNCTIONS BETWEEN WALKS. MAXIMUM CROSS SLOPE = 2.0%. (TYPICAL)
15. TWO 6" SCH. 40 ELECTRICAL/TELECOM CONDUITS WITH PULL STRINGS (TYPICAL).
16. LOADING DOCK RAMP AT 8.0% SLOPE (SEE GRADING PLAN) (TYPICAL).
17. 48" LOADING DOCK ALONG THIS EDGE OF BUILDING.
18. LANDSCAPE AREA (SEE LANDSCAPE PLANS FOR MORE INFORMATION).
19. SANITARY SEWER LIFT STATION SITE. (SEE SANITARY SEWER DETAILS)
20. PAINTED WHITE TRAFFIC DIRECTIONAL FLOW ARROW. (SEE DETAILS) (SEE STRIPING NOTES) (TYPICAL)
21. 4" WIDE SOLID DOUBLE YELLOW LINE. (SEE STRIPING NOTES)
22. CONCRETE KEY WAY. (SEE DETAILS)
23. CONCRETE FLUME FOR DRAINAGE. (SEE STORM DRAINAGE PLAN)
24. 5'x5' CONCRETE LANDING AREA (TYPICAL). COORDINATE LOCATION WITH ARCHITECTURAL PLANS.

LEGEND

- LIGHT DUTY ASPHALTIC CONCRETE PAVEMENT – 3" SURFACE COURSE / 6" GABC SECTION (SEE DETAIL)
- HEAVY DUTY ASPHALTIC CONCRETE PAVEMENT – 2" SURFACE COURSE / 2" INTERMEDIATE COURSE / 8" GABC SECTION (SEE DETAIL)
- HEAVY DUTY PORTLAND CEMENT CONCRETE PAVEMENT – 8" 4000 PSI TYPE I CONCRETE / 6" GABC – REBAR SHALL BE #4'S AT 16" ON CENTER EACH WAY. 15' X 15' JOINT GRID WITH EXPANSION ON 30' X 30' GRID. (SEE DETAIL)

PAVEMENT SECTIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR MUST RETAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE INDIVIDUAL PAVEMENT SECTIONS BASED ON THE AVAILABLE GEOTECHNICAL REPORT.

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LEXINGTON COUNTY, SOUTH CAROLINA
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SF NO.	307-1
PROJECT NO.	1779
SHEET NO.	C3
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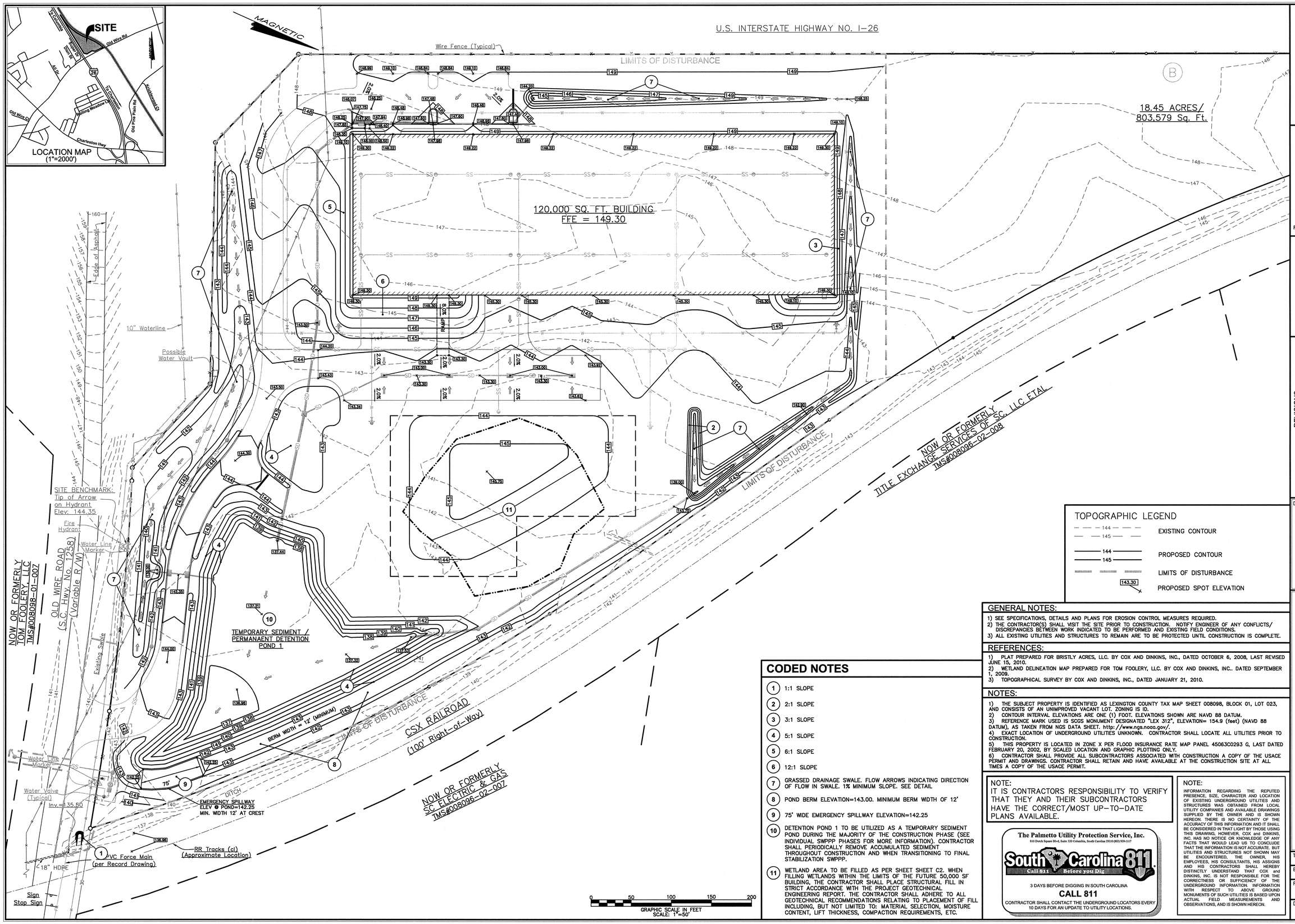

TOPOGRAPHIC LEGEND

144 / 145	EXISTING CONTOUR
144 / 145	PROPOSED CONTOUR
	LIMITS OF DISTURBANCE
143.30	PROPOSED SPOT ELEVATION

CODED NOTES

1. 1:1 SLOPE
2. 2:1 SLOPE
3. 3:1 SLOPE
4. 5:1 SLOPE
5. 6:1 SLOPE
6. 12:1 SLOPE
7. GRASSED DRAINAGE SWALE. FLOW ARROWS INDICATING DIRECTION OF FLOW IN SWALE. 1% MINIMUM SLOPE. SEE DETAIL
8. POND BERM ELEVATION=143.00. MINIMUM BERM WIDTH OF 12'
9. 75' WIDE EMERGENCY SPILLWAY ELEVATION=142.25
10. DETENTION POND 1 TO BE UTILIZED AS A TEMPORARY SEDIMENT POND DURING THE MAJORITY OF THE CONSTRUCTION PHASE (SEE INDIVIDUAL SWPPP PHASES FOR MORE INFORMATION). CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT THROUGHOUT CONSTRUCTION AND WHEN TRANSITIONING TO FINAL STABILIZATION SWPPP.
11. WETLAND AREA TO BE FILLED AS PER SHEET SHEET C2. WHEN FILLING WETLANDS WITHIN THE LIMITS OF THE FUTURE 50,000 SF BUILDING, THE CONTRACTOR SHALL PLACE STRUCTURAL FILL IN STRICT ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEERING REPORT. THE CONTRACTOR SHALL ADHERE TO ALL GEOTECHNICAL RECOMMENDATIONS RELATING TO PLACEMENT OF FILL INCLUDING, BUT NOT LIMITED TO: MATERIAL SELECTION, MOISTURE CONTENT, LIFT THICKNESS, COMPACTION REQUIREMENTS, ETC.

GENERAL NOTES:

1) SEE SPECIFICATIONS, DETAILS AND PLANS FOR EROSION CONTROL MEASURES REQUIRED.
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1) THE SUBJECT PROPERTY IS IDENTIFIED AS LEXINGTON COUNTY TAX MAP SHEET 008098, BLOCK 01, LOT 023, AND CONSISTS OF AN UNIMPROVED VACANT LOT. ZONING IS ID.
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4) EXACT LOCATION OF UNDERGROUND UTILITIES UNKNOWN. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
5) THIS PROPERTY IS LOCATED IN ZONE X PER FLOOD INSURANCE RATE MAP PANEL 45063C0293 G, LAST DATED FEBRUARY 20, 2002, BY SCALED LOCATION AND GRAPHIC PLOTTING ONLY.
6) CONTRACTOR SHALL PROVIDE ALL SUBCONTRACTORS ASSOCIATED WITH CONSTRUCTION A COPY OF THE USACE PERMIT AND DRAWINGS. CONTRACTOR SHALL RETAIN AND HAVE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES A COPY OF THE USACE PERMIT.

NOTE:
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The Palmetto Utility Protection Service, Inc.
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COX AND DINKINS
ENGINEERS – SURVEYORS
COX AND DINKINS, INC.
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COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 6/27/14 JAMES L. PRUITT, JR.

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS		
No.	DATE	DESCRIPTION

DEVELOPER:
MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA
GRADING PLAN

TMS	008098-01-023
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C4
DATE 08/27/2014	

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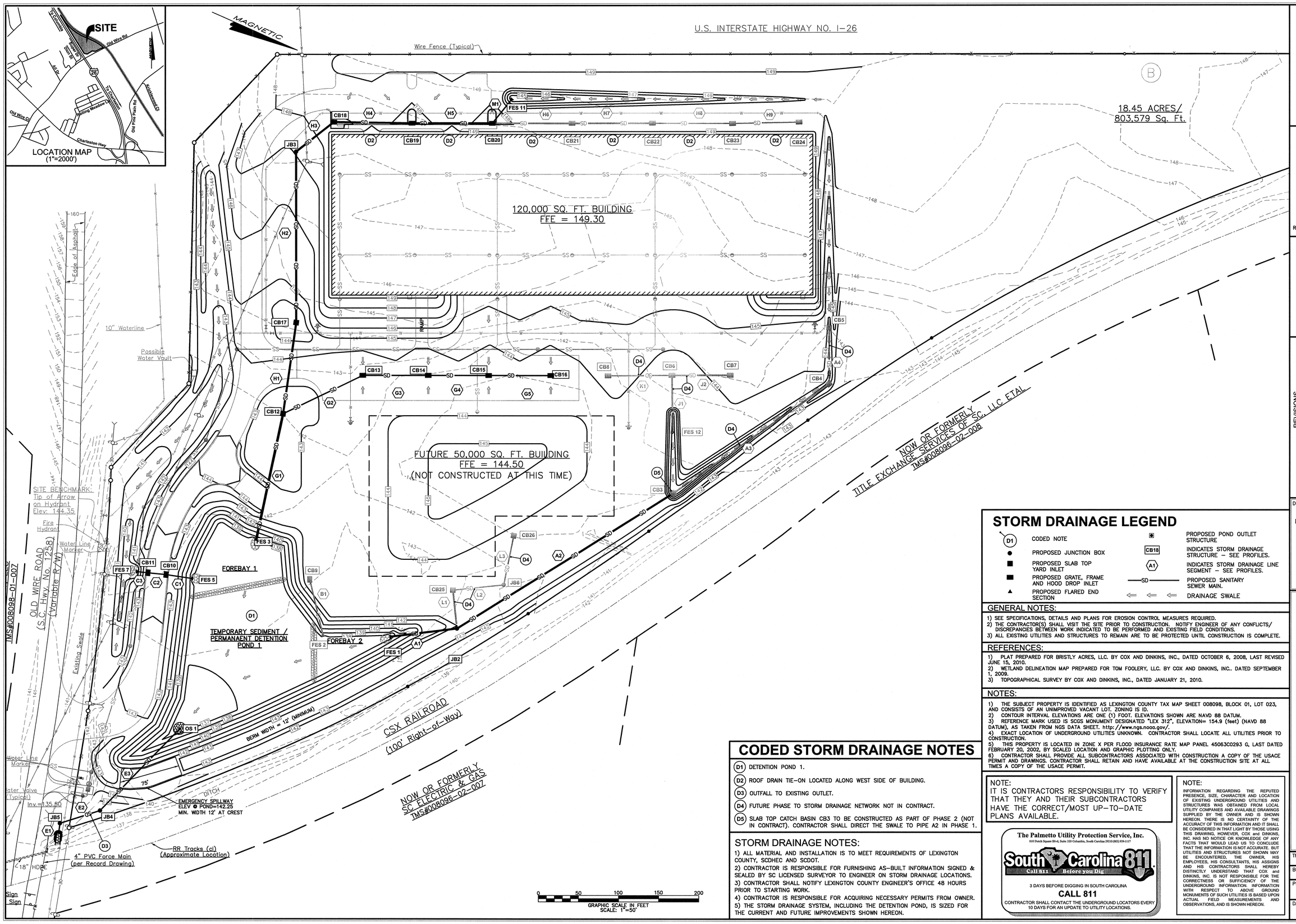

STORM DRAINAGE LEGEND

D1	CODED NOTE
●	PROPOSED JUNCTION BOX
■	PROPOSED SLAB TOP YARD INLET
■	PROPOSED GRATE, FRAME AND HOOD DROP INLET
▲	PROPOSED FLARED END SECTION
◉	PROPOSED POND OUTLET STRUCTURE
CB18	INDICATES STORM DRAINAGE STRUCTURE – SEE PROFILES.
A1	INDICATES STORM DRAINAGE LINE SEGMENT – SEE PROFILES.
—SD—	PROPOSED SANITARY SEWER MAIN.
⇐ ⇐ ⇐	DRAINAGE SWALE

GENERAL NOTES:

1) SEE SPECIFICATIONS, DETAILS AND PLANS FOR EROSION CONTROL MEASURES REQUIRED.
2) THE CONTRACTOR(S) SHALL VISIT THE SITE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS/ DISCREPANCIES BETWEEN WORK INDICATED TO BE PERFORMED AND EXISTING FIELD CONDITIONS.
3) ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN ARE TO BE PROTECTED UNTIL CONSTRUCTION IS COMPLETE.

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CODED STORM DRAINAGE NOTES

- (D1) DETENTION POND 1.
- (D2) ROOF DRAIN TIE–ON LOCATED ALONG WEST SIDE OF BUILDING.
- (D3) OUTFALL TO EXISTING OUTLET.
- (D4) FUTURE PHASE TO STORM DRAINAGE NETWORK NOT IN CONTRACT.
- (D5) SLAB TOP CATCH BASIN CB3 TO BE CONSTRUCTED AS PART OF PHASE 2 (NOT IN CONTRACT). CONTRACTOR SHALL DIRECT THE SWALE TO PIPE A2 IN PHASE 1.

STORM DRAINAGE NOTES:

1) ALL MATERIAL AND INSTALLATION IS TO MEET REQUIREMENTS OF LEXINGTON COUNTY, SCDHEC AND SCDOT.
2) CONTRACTOR IS RESPONSIBLE FOR FURNISHING AS–BUILT INFORMATION SIGNED & SEALED BY SC LICENSED SURVEYOR TO ENGINEER ON STORM DRAINAGE LOCATIONS.
3) CONTRACTOR SHALL NOTIFY LEXINGTON COUNTY ENGINEER'S OFFICE 48 HOURS PRIOR TO STARTING WORK.
4) CONTRACTOR IS RESPONSIBLE FOR ACQUIRING NECESSARY PERMITS FROM OWNER.
5) THE STORM DRAINAGE SYSTEM, INCLUDING THE DETENTION POND, IS SIZED FOR THE CURRENT AND FUTURE IMPROVEMENTS SHOWN HEREON.

NOTE:
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Email: cdinc@coxanddinkins.com

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 8/27/14 PRUITT

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

No.	DATE	REVISIONS DESCRIPTION

DEVELOPER:
MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072
803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA
STORM DRAINAGE PLAN

TMS	008098-01-023
BOOK	K72-1
SF NO.	307-1
PROJECT NO.	1779
SHEET NO.	C5
DATE	08/27/2014

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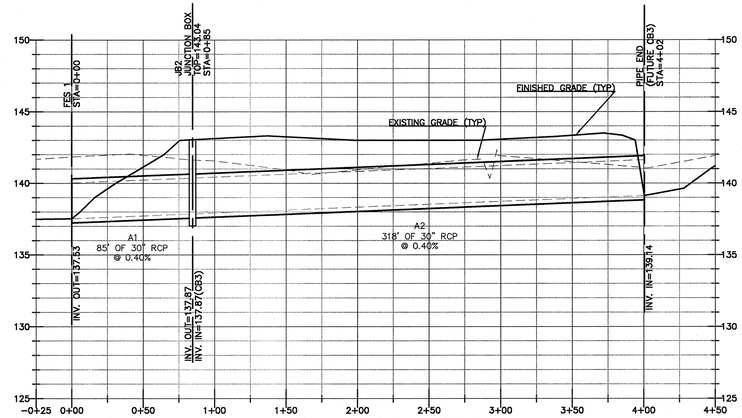
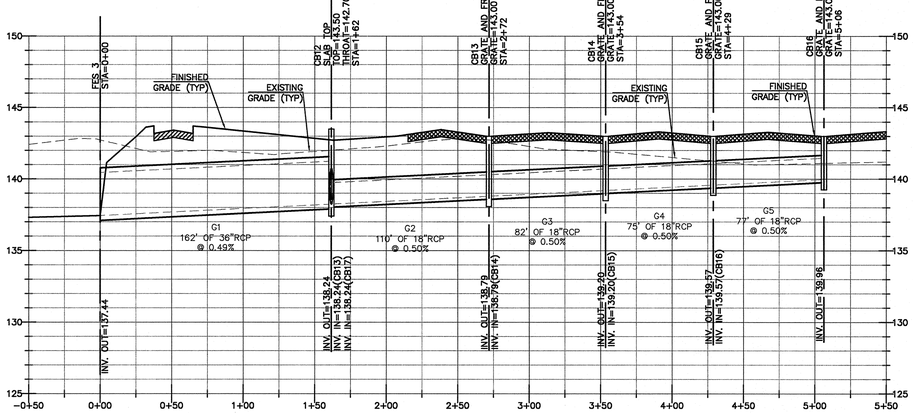


STORM DRAIN LINE A



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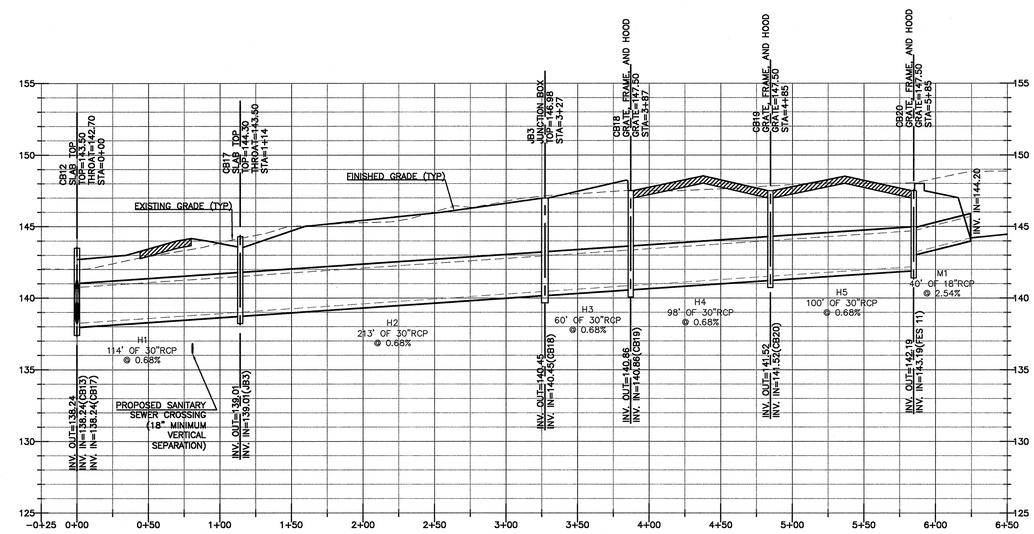

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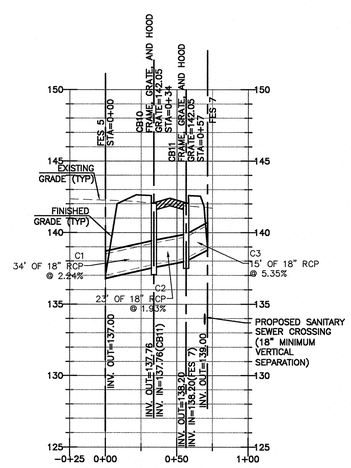
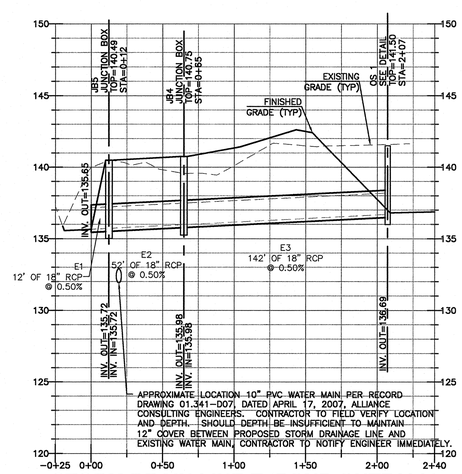


STORM DRAIN LINE C



STORM DRAIN LINE E (POND OUTFALL)

GRAPHIC SCALE IN FEET
SCALE: 1"=5'

GRAPHIC SCALE IN FEET
SCALE: 1"=50'

NOTES:
1) OTHER UTILITY CROSSINGS MAY EXIST THAT ARE NOT SHOWN ON THIS PROFILE.
2) AS SHOWN, PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURES.

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Email: cdinc@coxanddinkins.com

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 8/27/14 JAMES L. PRUITT, III

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS

No.	DATE	DESCRIPTION

DEVELOPER:
MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA
STORM DRAINAGE PROFILES

TMS	008098-01-023
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C6
DATE 08/27/2014	

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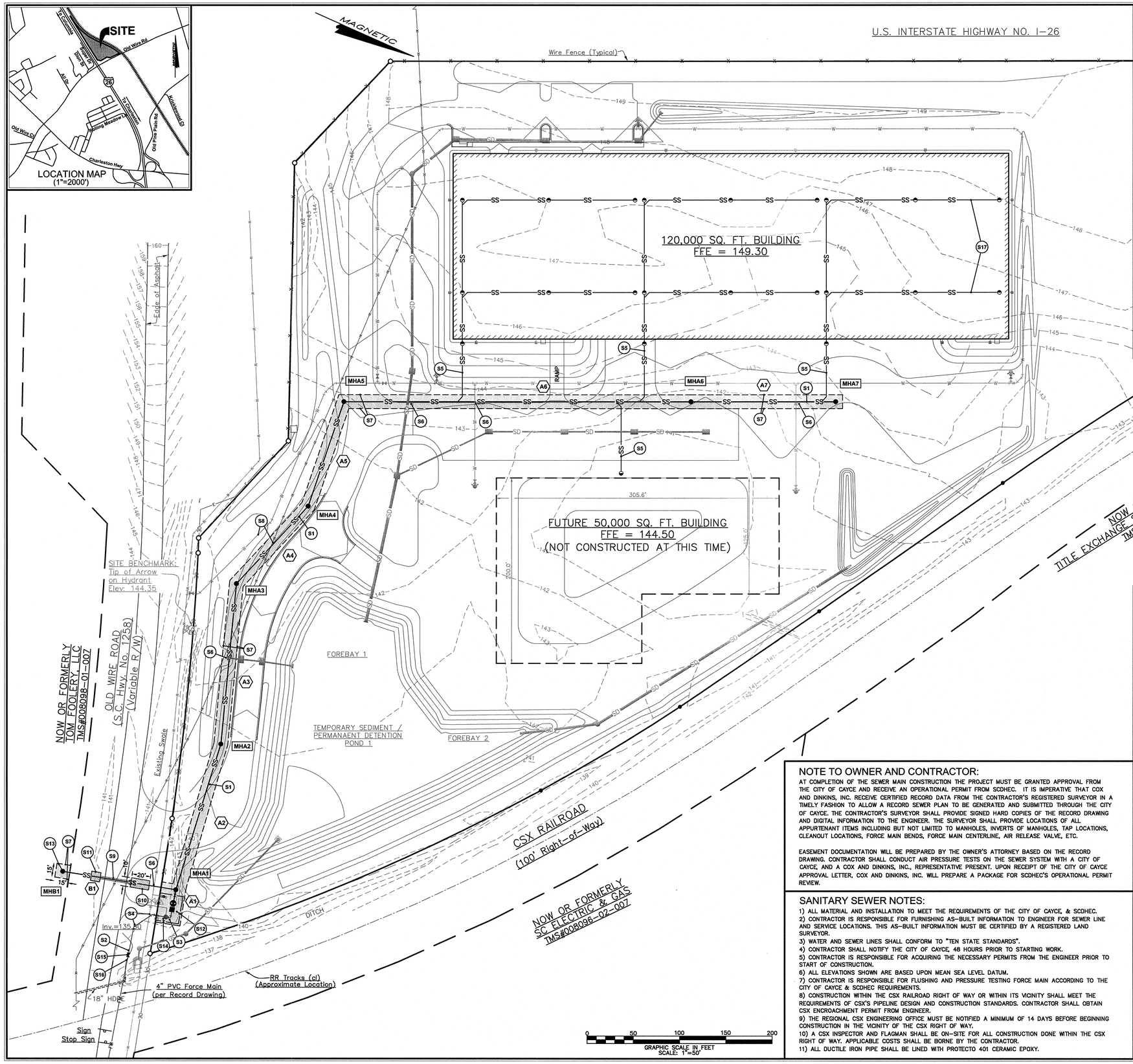

CODED SEWER NOTES:

1. NEW 8" SDR-35 PVC SANITARY SEWER GRAVITY MAIN. SEE PROFILE. (TYPICAL)
2. NEW 4" C-900 PVC FORCE MAIN TO BE GREEN IN COLOR AND IMPRINTED WITH "SEWER" IN LARGE LETTERS PER CITY OF CAYCE'S SPECIFICATIONS. 3' MINIMUM COVER (TYPICAL)
3. 4" 90° MJ BEND IN FORCE MAIN WITH THRUST BLOCKING OR BELL RESTRAINTS.
4. 4" 45° MJ BEND IN FORCE MAIN WITH THRUST BLOCKING OR BELL RESTRAINTS.
5. 6" SDR-35 PVC SANITARY SEWER SERVICE LATERAL WITH CLEANOUT. 1.0% MINIMIUM SLOPE. (TYPICAL). USE HEAVY DUTY CLEANOUT PLUG IN CONCRETE AREAS (INCLUDING FUTURE CONCRETE).
6. GRAVITY MAIN CROSSES UNDER WATER MAIN AND STORM DRAIN IN THIS AREA. ENSURE A MINIMUM OF 18" VERTICAL SEPARATION. SEE PROFILES FOR MORE SEWER CROSSING INFORMATION.
7. PROPOSED CITY OF CAYCE SANITARY SEWER EASEMENT.
8. SANITARY SEWER GRAVITY MAIN AND WATER MAIN RUN PARALLEL IN THIS AREA. ENSURE A MINIMUM OF 15' OF HORIZONTAL SEPARATION.
9. JACK & BORE 37' OF 16" STEEL CASING (0.375" THICK) UNDER OLD WIRE ROAD PER APPROVED SCDOT ENCROACHMENT PERMIT. INSTALL 124' OF 8" RESTRAINED JOINT DIP GRAVITY MAIN INSIDE THE CASING. SEE SANITARY SEWER LINE 'B' PROFILE FOR MORE INFORMATION.
10. 20'x10' BORE PIT.
11. 10'x10' RECEIVING PIT.
12. PROPOSED SEWER LIFT STATION SITE. SEE SHEET C16 FOR MORE INFORMATION.
13. STUB OUT 8' OF 8" SDR-35 PVC AT 0.50% SLOPE AND PLUG END. ORIENT AS SHOWN.
14. COMBINATION AIR RELEASE/VACUUM VALVE PER DETAIL.
15. 4" MJ GATE VALVE W/ BOX.
16. CONTRACTOR SHALL CONNECT NEW 4" PVC FORCEMAIN TO INACTIVE EXISTING FORCEMAIN. DEMOLISH EXISTING FORCEMAIN IN VICINITY OF NEW CONNECTION AS NECESSARY TO ACCOMMODATE NEW IMPROVEMENTS AS SHOWN.
17. SANITARY SEWER SERVICE LINES SHOWN WITHIN THE BUILDING ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR'S MEP ENGINEER SHALL BE RESPONSIBLE FOR FINAL DESIGN THE SYSTEM WITHIN THE BUILDING.

SEWER LEGEND

S1	CODED NOTE	MH 1	INDICATES MANHOLE DESIGNATION – SEE PROFILES.
●	PROPOSED SANITARY SEWER MANHOLE.	A1	INDICATES LINE SEGMENT – SEE PROFILES.
	PROPOSED SANITARY SEWER CLEAN OUT.	Ⓢ	EXISTING SANITARY SEWER MANHOLE
—SS—	PROPOSED SANITARY SEWER MAIN.	—SS—	EXISTING SANITARY SEWER MAIN

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NOTE TO OWNER AND CONTRACTOR:

AT COMPLETION OF THE SEWER MAIN CONSTRUCTION THE PROJECT MUST BE GRANTED APPROVAL FROM THE CITY OF CAYCE AND RECEIVE AN OPERATIONAL PERMIT FROM SCDHEC. IT IS IMPERATIVE THAT COX AND DINKINS, INC. RECEIVE CERTIFIED RECORD DATA FROM THE CONTRACTOR'S REGISTERED SURVEYOR IN A TIMELY FASHION TO ALLOW A RECORD SEWER PLAN TO BE GENERATED AND SUBMITTED THROUGH THE CITY OF CAYCE. THE CONTRACTOR'S SURVEYOR SHALL PROVIDE SIGNED HARD COPIES OF THE RECORD DRAWING AND DIGITAL INFORMATION TO THE ENGINEER. THE SURVEYOR SHALL PROVIDE LOCATIONS OF ALL APPURTENANT ITEMS INCLUDING BUT NOT LIMITED TO MANHOLES, INVERTS OF MANHOLES, TAP LOCATIONS, CLEANOUT LOCATIONS, FORCE MAIN BENDS, FORCE MAIN CENTERLINE, AIR RELEASE VALVE, ETC.

EASEMENT DOCUMENTATION WILL BE PREPARED BY THE OWNER'S ATTORNEY BASED ON THE RECORD DRAWING. CONTRACTOR SHALL CONDUCT AIR PRESSURE TESTS ON THE SEWER SYSTEM WITH A CITY OF CAYCE AND A COX AND DINKINS, INC., REPRESENTATIVE PRESENT. UPON RECEIPT OF THE CITY OF CAYCE APPROVAL LETTER, COX AND DINKINS, INC. WILL PREPARE A PACKAGE FOR SCDHEC'S OPERATIONAL PERMIT REVIEW.

SANITARY SEWER NOTES:

1) ALL MATERIAL AND INSTALLATION TO MEET THE REQUIREMENTS OF THE CITY OF CAYCE, & SCDHEC.
2) CONTRACTOR IS RESPONSIBLE FOR FURNISHING AS-BUILT INFORMATION TO ENGINEER FOR SEWER LINE AND SERVICE LOCATIONS. THIS AS-BUILT INFORMATION MUST BE CERTIFIED BY A REGISTERED LAND SURVEYOR.
3) WATER AND SEWER LINES SHALL CONFORM TO "TEN STATE STANDARDS".
4) CONTRACTOR SHALL NOTIFY THE CITY OF CAYCE, 48 HOURS PRIOR TO STARTING WORK.
5) CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE NECESSARY PERMITS FROM THE ENGINEER PRIOR TO START OF CONSTRUCTION.
6) ALL ELEVATIONS SHOWN ARE BASED UPON MEAN SEA LEVEL DATUM.
7) CONTRACTOR IS RESPONSIBLE FOR FLUSHING AND PRESSURE TESTING FORCE MAIN ACCORDING TO THE CITY OF CAYCE & SCDHEC REQUIREMENTS.
8) CONSTRUCTION WITHIN THE CSX RAILROAD RIGHT OF WAY OR WITHIN ITS VICINITY SHALL MEET THE REQUIREMENTS OF CSX'S PIPELINE DESIGN AND CONSTRUCTION STANDARDS. CONTRACTOR SHALL OBTAIN CSX ENCROACHMENT PERMIT FROM ENGINEER.
9) THE REGIONAL CSX ENGINEERING OFFICE MUST BE NOTIFIED A MINIMUM OF 14 DAYS BEFORE BEGINNING CONSTRUCTION IN THE VICINITY OF THE CSX RIGHT OF WAY.
10) A CSX INSPECTOR AND FLAGMAN SHALL BE ON-SITE FOR ALL CONSTRUCTION DONE WITHIN THE CSX RIGHT OF WAY. APPLICABLE COSTS SHALL BE BORNE BY THE CONTRACTOR.
11) ALL DUCTILE IRON PIPE SHALL BE LINED WITH PROTECTO 401 CERAMIC EPOXY.

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 27 JAN 14 JAMES L. PRUITT, JR.

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

No.	DATE	DESCRIPTION

REVISIONS

DEVELOPER:
MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA

SANITARY SEWER PLAN

TMS	008098-01-023
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C7
DATE 08/27/2014	

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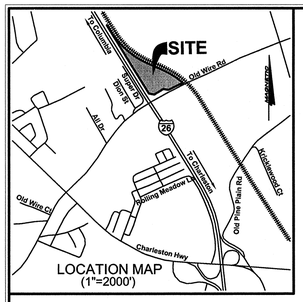
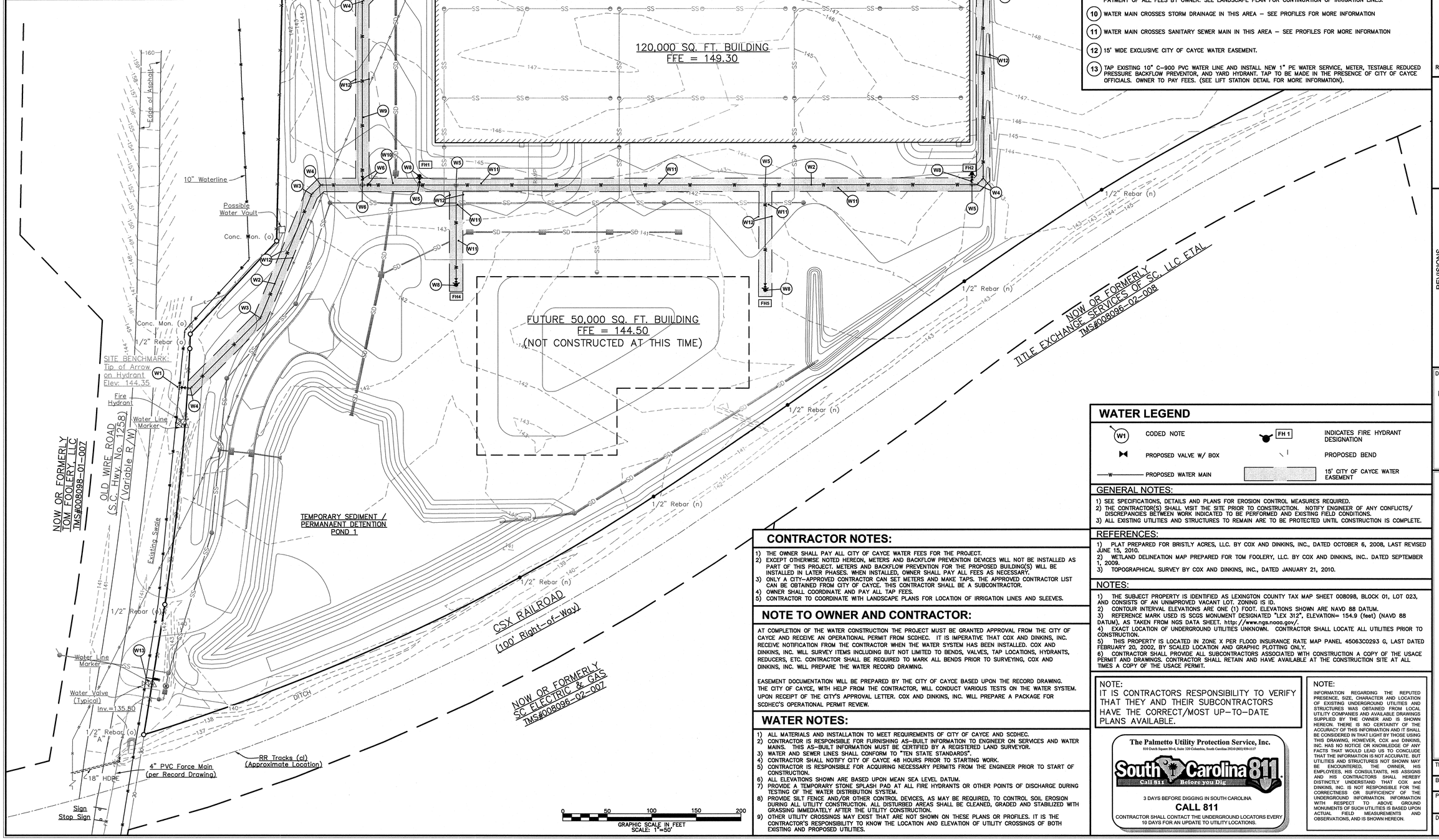


LOCATION MAP
(1"=2000')



CODED WATER NOTES:

1. CONTRACTOR SHALL TAP EXISTING 10" C-900 PVC WATER LINE WITH 10"x8" TAPPING SLEEVE AND VALVE. TAP SHALL BE MADE IN THE PRESENCE OF CITY OF CAYCE OFFICIALS. OWNER TO PAY FEES.
2. 8" DIAMETER C-900 PVC WATER MAIN. MAINTAIN 3' OF COVER AT A MINIMUM.
3. 8" - 22-1/5' M.J. D.I. BEND.
4. 8" - 45° M.J. D.I. BEND.
5. 8"X8"X6" M.J. D.I. TEE.
6. 8"X8"X8" M.J. D.I. TEE.
7. 8" GATE VALVE W/ BOX.
8. FIRE HYDRANT ASSEMBLY ON 6" CLASS-51 ASPHALT COATED, CEMENT LINED D.I. LEAD. ASSEMBLY INCLUDES HYDRANT VALVE INSTALLATION.
9. 2" IRRIGATION WATER SERVICE LINE WITH VALVE. CONTRACTOR SHALL INSTALL SERVICE LINE, METER BOX. 2", AND WATTS 007 BACKFLOW PREVENTER. METER TO BE SET BY CITY OF CAYCE AFTER APPLICATION AND PAYMENT OF ALL FEES BY OWNER. SEE LANDSCAPE PLAN FOR CONTINUATION OF IRRIGATION LINES.
10. WATER MAIN CROSSES STORM DRAINAGE IN THIS AREA - SEE PROFILES FOR MORE INFORMATION
11. WATER MAIN CROSSES SANITARY SEWER MAIN IN THIS AREA - SEE PROFILES FOR MORE INFORMATION
12. 15' WIDE EXCLUSIVE CITY OF CAYCE WATER EASEMENT.
13. TAP EXISTING 10" C-900 PVC WATER LINE AND INSTALL NEW 1" PE WATER SERVICE, METER, TESTABLE REDUCED PRESSURE BACKFLOW PREVENTOR, AND YARD HYDRANT. TAP TO BE MADE IN THE PRESENCE OF CITY OF CAYCE OFFICIALS. OWNER TO PAY FEES. (SEE LIFT STATION DETAIL FOR MORE INFORMATION).

WATER LEGEND

- W1 — CODED NOTE
- FH 1 — INDICATES FIRE HYDRANT DESIGNATION
- PROPOSED VALVE W/ BOX
- PROPOSED BEND
- —W— PROPOSED WATER MAIN
- 15' CITY OF CAYCE WATER EASEMENT

GENERAL NOTES:

1) SEE SPECIFICATIONS, DETAILS AND PLANS FOR EROSION CONTROL MEASURES REQUIRED.
2) THE CONTRACTOR(S) SHALL VISIT THE SITE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS/ DISCREPANCIES BETWEEN WORK INDICATED TO BE PERFORMED AND EXISTING FIELD CONDITIONS.
3) ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN ARE TO BE PROTECTED UNTIL CONSTRUCTION IS COMPLETE.

CONTRACTOR NOTES:

1) THE OWNER SHALL PAY ALL CITY OF CAYCE WATER FEES FOR THE PROJECT.
2) EXCEPT OTHERWISE NOTED HEREON, METERS AND BACKFLOW PREVENTION DEVCES WILL NOT BE INSTALLED AS PART OF THIS PROJECT. METERS AND BACKFLOW PREVENTION FOR THE PROPOSED BUILDING(S) WILL BE INSTALLED IN LATER PHASES. WHEN INSTALLED, OWNER SHALL PAY ALL FEES AS NECESSARY.
3) ONLY A CITY-APPROVED CONTRACTOR CAN SET METERS AND MAKE TAPS. THE APPROVED CONTRACTOR LIST CAN BE OBTAINED FROM CITY OF CAYCE. THIS CONTRACTOR SHALL BE A SUBCONTRACTOR.
4) OWNER SHALL COORDINATE AND PAY ALL TAP FEES.
5) CONTRACTOR TO COORDINATE WITH LANDSCAPE PLANS FOR LOCATION OF IRRIGATION LINES AND SLEEVES.

NOTE TO OWNER AND CONTRACTOR:

AT COMPLETION OF THE WATER CONSTRUCTION THE PROJECT MUST BE GRANTED APPROVAL FROM THE CITY OF CAYCE AND RECEIVE AN OPERATIONAL PERMIT FROM SCDHEC. IT IS IMPERATIVE THAT COX AND DINKINS, INC. RECEIVE NOTIFICATION FROM THE CONTRACTOR WHEN THE WATER SYSTEM HAS BEEN INSTALLED. COX AND DINKINS, INC. WILL SURVEY ITEMS INCLUDING BUT NOT LIMITED TO BENDS, VALVES, TAP LOCATIONS, HYDRANTS, REDUCERS, ETC. CONTRACTOR SHALL BE REQUIRED TO MARK ALL BENDS PRIOR TO SURVEYING, COX AND DINKINS, INC. WILL PREPARE THE WATER RECORD DRAWING.

EASEMENT DOCUMENTATION WILL BE PREPARED BY THE CITY OF CAYCE BASED UPON THE RECORD DRAWING. THE CITY OF CAYCE, WITH HELP FROM THE CONTRACTOR, WILL CONDUCT VARIOUS TESTS ON THE WATER SYSTEM. UPON RECEIPT OF THE CITY'S APPROVAL LETTER. COX AND DINKINS, INC. WILL PREPARE A PACKAGE FOR SCDHEC'S OPERATIONAL PERMIT REVIEW.

WATER NOTES:

1) ALL MATERIALS AND INSTALLATION TO MEET REQUIREMENTS OF CITY OF CAYCE AND SCDHEC.
2) CONTRACTOR IS RESPONSIBLE FOR FURNISHING AS-BUILT INFORMATION TO ENGINEER ON SERVICES AND WATER MAINS. THIS AS-BUILT INFORMATION MUST BE CERTIFIED BY A REGISTERED LAND SURVEYOR.
3) WATER AND SEWER LINES SHALL CONFORM TO "TEN STATE STANDARDS".
4) CONTRACTOR SHALL NOTIFY CITY OF CAYCE 48 HOURS PRIOR TO STARTING WORK.
5) CONTRACTOR IS RESPONSIBLE FOR ACQUIRING NECESSARY PERMITS FROM THE ENGINEER PRIOR TO START OF CONSTRUCTION.
6) ALL ELEVATIONS SHOWN ARE BASED UPON MEAN SEA LEVEL DATUM.
7) PROVIDE A TEMPORARY STONE SPLASH PAD AT ALL FIRE HYDRANTS OR OTHER POINTS OF DISCHARGE DURING TESTING OF THE WATER DISTRIBUTION SYSTEM.
8) PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING ALL UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY CONSTRUCTION.
9) OTHER UTILITY CROSSINGS MAY EXIST THAT ARE NOT SHOWN ON THESE PLANS OR PROFILES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KNOW THE LOCATION AND ELEVATION OF UTILITY CROSSINGS OF BOTH EXISTING AND PROPOSED UTILITIES.

REFERENCES:

1) PLAT PREPARED FOR BRISTLY ACRES, LLC. BY COX AND DINKINS, INC., DATED OCTOBER 6, 2008, LAST REVISED JUNE 15, 2010.
2) WETLAND DELINEATION MAP PREPARED FOR TOM FOOLERY, LLC. BY COX AND DINKINS, INC.. DATED SEPTEMBER 1, 2009.
3) TOPOGRAPHICAL SURVEY BY COX AND DINKINS, INC., DATED JANUARY 21, 2010.

NOTES:

1) THE SUBJECT PROPERTY IS IDENTIFIED AS LEXINGTON COUNTY TAX MAP SHEET 008098, BLOCK 01, LOT 023, AND CONSISTS OF AN UNIMPROVED VACANT LOT. ZONING IS ID.
2) CONTOUR INTERVAL ELEVATIONS ARE ONE (1) FOOT. ELEVATIONS SHOWN ARE NAVD 88 DATUM.
3) REFERENCE MARK USED IS SCGS MONUMENT DESIGNATED "LEX 312", ELEVATION= 154.9 (feet) (NAVD 88 DATUM), AS TAKEN FROM NGS DATA SHEET. http://www.ngs.noaa.gov/.
4) EXACT LOCATION OF UNDERGROUND UTILITIES UNKNOWN. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
5) THIS PROPERTY IS LOCATED IN ZONE X PER FLOOD INSURANCE RATE MAP PANEL 45063C0293 G, LAST DATED FEBRUARY 20, 2002, BY SCALED LOCATION AND GRAPHIC PLOTTING ONLY.
6) CONTRACTOR SHALL PROVIDE ALL SUBCONTRACTORS ASSOCIATED WITH CONSTRUCTION A COPY OF THE USACE PERMIT AND DRAWINGS. CONTRACTOR SHALL RETAIN AND HAVE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES A COPY OF THE USACE PERMIT.

NOTE:
IT IS CONTRACTORS RESPONSIBILITY TO VERIFY THAT THEY AND THEIR SUBCONTRACTORS HAVE THE CORRECT/MOST UP-TO-DATE PLANS AVAILABLE.

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CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.

NOTE:
INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES WAS OBTAINED FROM LOCAL UTILITY COMPANIES AND AVAILABLE DRAWINGS SUPPLIED BY THE OWNER AND IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING, HOWEVER, COX and DINKINS, INC. HAS NO NOTICE OR KNOWLEDGE OF ANY FACTS THAT WOULD LEAD US TO CONCLUDE THAT THE INFORMATION IS NOT ACCURATE. BUT UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED, THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS ASSIGNS AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT COX and DINKINS, INC. IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE UNDERGROUND INFORMATION. INFORMATION WITH RESPECT TO ABOVE GROUND MONUMENTS OF SUCH UTILITIES IS BASED UPON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS, AND IS SHOWN HEREON.

COX AND DINKINS
ENGINEERS - SURVEYORS
COX AND DINKINS, INC.
724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com

SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 24748 PRUITT

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS		
No.	DATE	DESCRIPTION

DEVELOPER:
MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA
WATER DISTRIBUTION PLAN

TMS	008098-01-023
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C8
DATE 08/27/2014	

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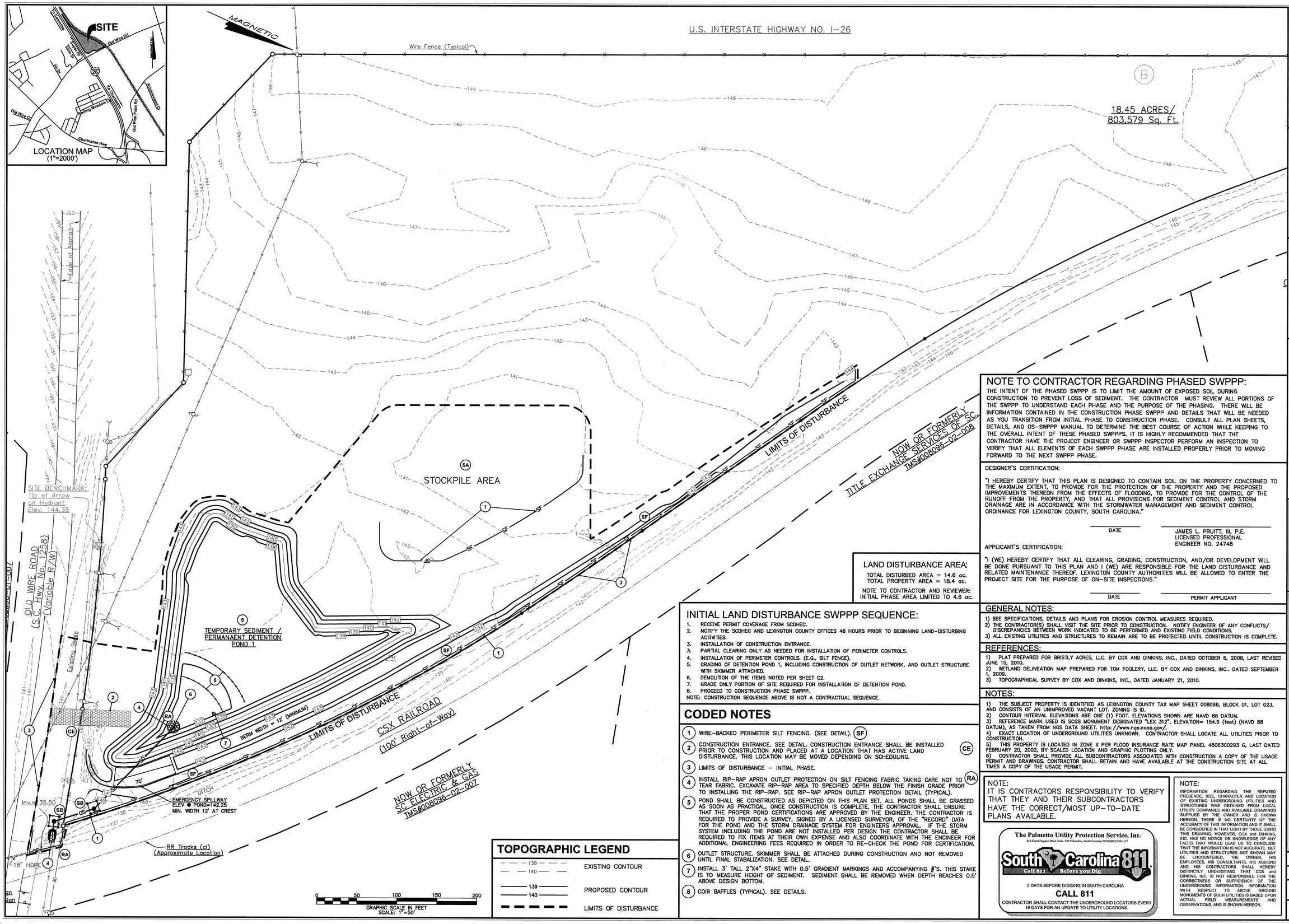

LAND DISTURBANCE AREA:

TOTAL DISTURBED AREA = 14.6 ac.
TOTAL PROPERTY AREA = 18.4 ac.

NOTE TO CONTRACTOR AND REVIEWER:
INITIAL PHASE AREA LIMITED TO 4.6 ac.

NOTE TO CONTRACTOR REGARDING PHASED SWPPP:

THE INTENT OF THE PHASED SWPPP IS TO LIMIT THE AMOUNT OF EXPOSED SOIL DURING CONSTRUCTION TO PREVENT LOSS OF SEDIMENT. THE CONTRACTOR MUST REVIEW ALL PORTIONS OF THE SWPPP TO UNDERSTAND EACH PHASE AND THE PURPOSE OF THE PHASING. THERE WILL BE INFORMATION CONTAINED IN THE CONSTRUCTION PHASE SWPPP AND DETAILS THAT WILL BE NEEDED AS YOU TRANSITION FROM INITIAL PHASE TO CONSTRUCTION PHASE. CONSULT ALL PLAN SHEETS, DETAILS, AND OS-SWPPP MANUAL TO DETERMINE THE BEST COURSE OF ACTION WHILE KEEPING TO THE OVERALL INTENT OF THESE PHASED SWPPPS. IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR HAVE THE PROJECT ENGINEER OR SWPPP INSPECTOR PERFORM AN INSPECTION TO VERIFY THAT ALL ELEMENTS OF EACH SWPPP PHASE ARE INSTALLED PROPERLY PRIOR TO MOVING FORWARD TO THE NEXT SWPPP PHASE.

DESIGNER'S CERTIFICATION:

"I HEREBY CERTIFY THAT THIS PLAN IS DESIGNED TO CONTAIN SOIL ON THE PROPERTY CONCERNED TO THE MAXIMUM EXTENT, TO PROVIDE FOR THE PROTECTION OF THE PROPERTY AND THE PROPOSED IMPROVEMENTS THEREON FROM THE EFFECTS OF FLOODING, TO PROVIDE FOR THE CONTROL OF THE RUNOFF FROM THE PROPERTY, AND THAT ALL PROVISIONS FOR SEDIMENT CONTROL AND STORM DRAINAGE ARE IN ACCORDANCE WITH THE STORMWATER MANAGEMENT AND SEDIMENT CONTROL ORDINANCE FOR LEXINGTON COUNTY, SOUTH CAROLINA."

DATE — JAMES L. PRUITT, III, P.E. LICENSED PROFESSIONAL ENGINEER NO. 24748

APPLICANT'S CERTIFICATION:

"I (WE) HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND I (WE) ARE RESPONSIBLE FOR THE LAND DISTURBANCE AND RELATED MAINTENANCE THEREOF. LEXINGTON COUNTY AUTHORITIES WILL BE ALLOWED TO ENTER THE PROJECT SITE FOR THE PURPOSE OF ON-SITE INSPECTIONS."

DATE — PERMIT APPLICANT

INITIAL LAND DISTURBANCE SWPPP SEQUENCE:

1. RECEIVE PERMIT COVERAGE FROM SCDHEC.
2. NOTIFY THE SCDHEC AND LEXINGTON COUNTY OFFICES 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
3. INSTALLATION OF CONSTRUCTION ENTRANCE.
3. PARTIAL CLEARING ONLY AS NEEDED FOR INSTALLATION OF PERIMETER CONTROLS.
4. INSTALLATION OF PERIMETER CONTROLS. (E.G., SILT FENCE).
5. GRADING OF DETENTION POND 1, INCLUDING CONSTRUCTION OF OUTLET NETWORK, AND OUTLET STRUCTURE WITH SKIMMER ATTACHED.
6. DEMOLITION OF THE ITEMS NOTED PER SHEET C2.
7. GRADE ONLY PORTION OF SITE REQUIRED FOR INSTALLATION OF DETENTION POND.
8. PROCEED TO CONSTRUCTION PHASE SWPPP.

NOTE: CONSTRUCTION SEQUENCE ABOVE IS NOT A CONTRACTUAL SEQUENCE.

CODED NOTES

1. WIRE-BACKED PERIMETER SILT FENCING. (SEE DETAIL). (SF)
2. CONSTRUCTION ENTRANCE. SEE DETAIL. CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND PLACED AT A LOCATION THAT HAS ACTIVE LAND DISTURBANCE. THIS LOCATION MAY BE MOVED DEPENDING ON SCHEDULING. (CE)
3. LIMITS OF DISTURBANCE – INITIAL PHASE.
4. INSTALL RIP-RAP APRON OUTLET PROTECTION ON SILT FENCING FABRIC TAKING CARE NOT TO TEAR FABRIC. EXCAVATE RIP-RAP AREA TO SPECIFIED DEPTH BELOW THE FINISH GRADE PRIOR TO INSTALLING THE RIP-RAP. SEE RIP-RAP APRON OUTLET PROTECTION DETAIL (TYPICAL). (RA)
5. POND SHALL BE CONSTRUCTED AS DEPICTED ON THIS PLAN SET. ALL PONDS SHALL BE GRASSED AS SOON AS PRACTICAL. ONCE CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL ENSURE THAT THE PROPER POND CERTIFICATIONS ARE APPROVED BY THE ENGINEER. THE CONTRACTOR IS REQUIRED TO PROVIDE A SURVEY, SIGNED BY A LICENSED SURVEYOR, OF THE "RECORD" DATA FOR THE POND AND THE STORM DRAINAGE SYSTEM FOR ENGINEERS APPROVAL. IF THE STORM SYSTEM INCLUDING THE POND ARE NOT INSTALLED PER DESIGN THE CONTRACTOR SHALL BE REQUIRED TO FIX ITEMS AT THEIR OWN EXPENSE AND ALSO COORDINATE WITH THE ENGINEER FOR ADDITIONAL ENGINEERING FEES REQUIRED IN ORDER TO RE-CHECK THE POND FOR CERTIFICATION.
6. OUTLET STRUCTURE. SKIMMER SHALL BE ATTACHED DURING CONSTRUCTION AND NOT REMOVED UNTIL FINAL STABALIZATION. SEE DETAIL.
7. INSTALL 3' TALL 2"X4" STAKE WITH 0.5' GRADIENT MARKINGS AND ACCOMPANYING #'S. THIS STAKE IS TO MEASURE HEIGHT OF SEDIMENT. SEDIMENT SHALL BE REMOVED WHEN DEPTH REACHES 0.5' ABOVE DESIGN BOTTOM.
8. COIR BAFFLES (TYPICAL). SEE DETAILS.

TOPOGRAPHIC LEGEND

139 / 140	EXISTING CONTOUR
139 / 140	PROPOSED CONTOUR
	LIMITS OF DISTURBANCE

GENERAL NOTES:

1) SEE SPECIFICATIONS, DETAILS AND PLANS FOR EROSION CONTROL MEASURES REQUIRED.
2) THE CONTRACTOR(S) SHALL VISIT THE SITE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS/ DISCREPANCIES BETWEEN WORK INDICATED TO BE PERFORMED AND EXISTING FIELD CONDITIONS.
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4) EXACT LOCATION OF UNDERGROUND UTILITIES UNKNOWN. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
5) THIS PROPERTY IS LOCATED IN ZONE X PER FLOOD INSURANCE RATE MAP PANEL 45063C0293 G, LAST DATED FEBRUARY 20, 2002, BY SCALED LOCATION AND GRAPHIC PLOTTING ONLY.
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COX AND DINKINS
ENGINEERS – SURVEYORS

COX AND DINKINS, INC.
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COLUMBIA, SC 29205
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Fax: 803-765-0993
Email: cdinc@coxanddinkins.com

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 — JAMES L. PRUITT, III — 8/27/14

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA — COX AND DINKINS, INC. No. C00294 — CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS		
No.	DATE	DESCRIPTION

DEVELOPER:

MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA

INITIAL LAND DISTURBANCE SWPPP

TMS	008098-01-023
BOOK	K72-1
SF NO.	307-1
PROJECT NO.	1779
SHEET NO.	C9
DATE	08/27/2014

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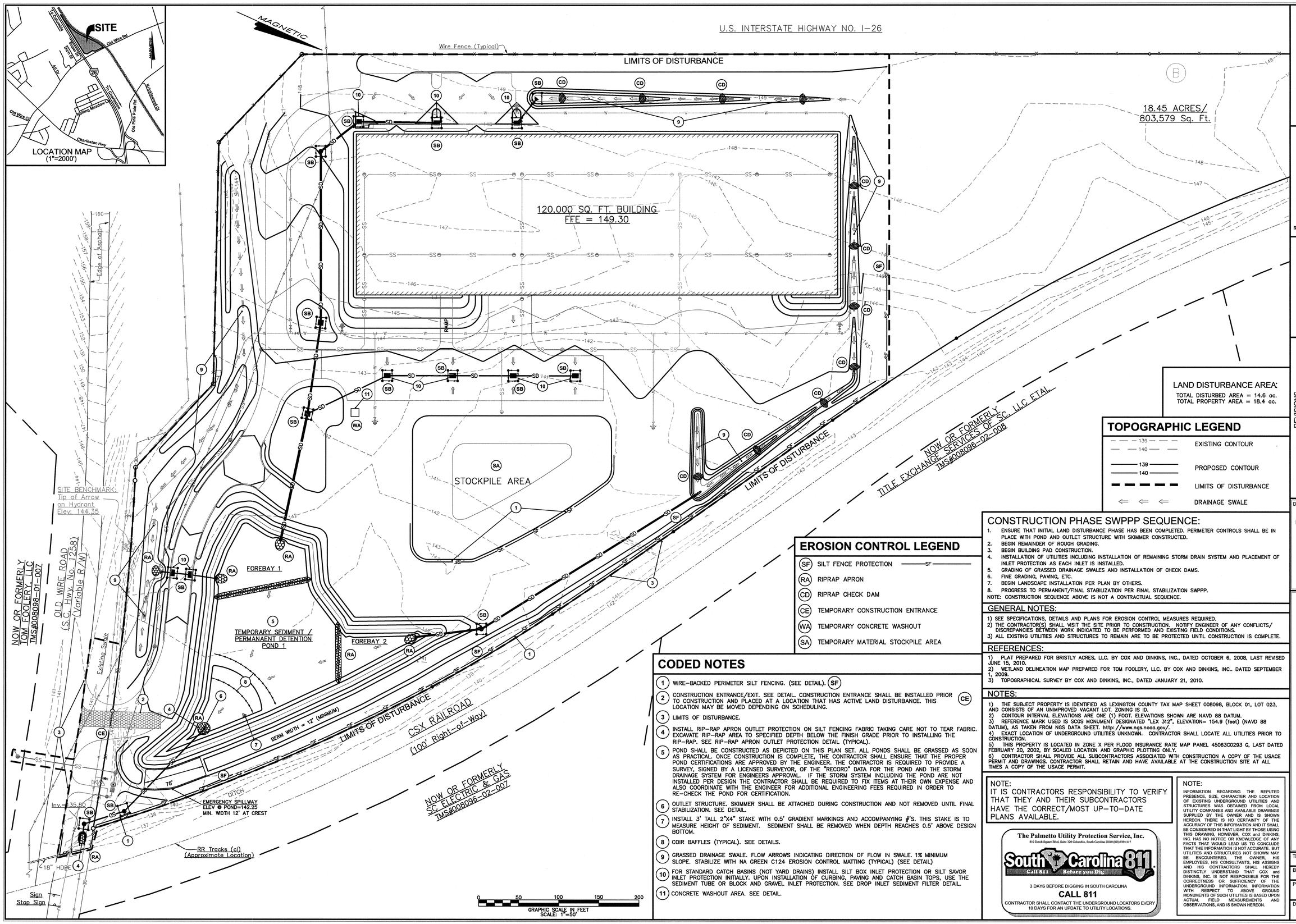

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TOTAL DISTURBED AREA = 14.6 ac.
TOTAL PROPERTY AREA = 18.4 ac.

TOPOGRAPHIC LEGEND

139	EXISTING CONTOUR
139 / 140	PROPOSED CONTOUR
	LIMITS OF DISTURBANCE
	DRAINAGE SWALE

EROSION CONTROL LEGEND

SF	SILT FENCE PROTECTION
RA	RIPRAP APRON
CD	RIPRAP CHECK DAM
CE	TEMPORARY CONSTRUCTION ENTRANCE
WA	TEMPORARY CONCRETE WASHOUT
SA	TEMPORARY MATERIAL STOCKPILE AREA

CODED NOTES

1. WIRE-BACKED PERIMETER SILT FENCING. (SEE DETAIL). (SF)
2. CONSTRUCTION ENTRANCE/EXIT. SEE DETAIL. CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND PLACED AT A LOCATION THAT HAS ACTIVE LAND DISTURBANCE. THIS LOCATION MAY BE MOVED DEPENDING ON SCHEDULING. (CE)
3. LIMITS OF DISTURBANCE.
4. INSTALL RIP-RAP APRON OUTLET PROTECTION ON SILT FENCING FABRIC TAKING CARE NOT TO TEAR FABRIC. EXCAVATE RIP-RAP AREA TO SPECIFIED DEPTH BELOW THE FINISH GRADE PRIOR TO INSTALLING THE RIP-RAP. SEE RIP-RAP APRON OUTLET PROTECTION DETAIL (TYPICAL).
5. POND SHALL BE CONSTRUCTED AS DEPICTED ON THIS PLAN SET. ALL PONDS SHALL BE GRASSED AS SOON AS PRACTICAL. ONCE CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL ENSURE THAT THE PROPER POND CERTIFICATIONS ARE APPROVED BY THE ENGINEER. THE CONTRACTOR IS REQUIRED TO PROVIDE A SURVEY, SIGNED BY A LICENSED SURVEYOR, OF THE "RECORD" DATA FOR THE POND AND THE STORM DRAINAGE SYSTEM FOR ENGINEERS APPROVAL. IF THE STORM SYSTEM INCLUDING THE POND ARE NOT INSTALLED PER DESIGN THE CONTRACTOR SHALL BE REQUIRED TO FIX ITEMS AT THEIR OWN EXPENSE AND ALSO COORDINATE WITH THE ENGINEER FOR ADDITIONAL ENGINEERING FEES REQUIRED IN ORDER TO RE-CHECK THE POND FOR CERTIFICATION.
6. OUTLET STRUCTURE. SKIMMER SHALL BE ATTACHED DURING CONSTRUCTION AND NOT REMOVED UNTIL FINAL STABILIZATION. SEE DETAIL.
7. INSTALL 3' TALL 2"X4" STAKE WITH 0.5' GRADIENT MARKINGS AND ACCOMPANYING #'S. THIS STAKE IS TO MEASURE HEIGHT OF SEDIMENT. SEDIMENT SHALL BE REMOVED WHEN DEPTH REACHES 0.5' ABOVE DESIGN BOTTOM.
8. COIR BAFFLES (TYPICAL). SEE DETAILS.
9. GRASSED DRAINAGE SWALE. FLOW ARROWS INDICATING DIRECTION OF FLOW IN SWALE. 1% MINIMUM SLOPE. STABILIZE WITH NA GREEN C124 EROSION CONTROL MATTING (TYPICAL) (SEE DETAIL)
10. FOR STANDARD CATCH BASINS (NOT YARD DRAINS) INSTALL SILT BOX INLET PROTECTION OR SILT SAVOR INLET PROTECTION INITIALLY. UPON INSTALLATION OF CURBING, PAVING AND CATCH BASIN TOPS, USE THE SEDIMENT TUBE OR BLOCK AND GRAVEL INLET PROTECTION. SEE DROP INLET SEDIMENT FILTER DETAIL.
11. CONCRETE WASHOUT AREA. SEE DETAIL.

CONSTRUCTION PHASE SWPPP SEQUENCE:

1. ENSURE THAT INITIAL LAND DISTURBANCE PHASE HAS BEEN COMPLETED. PERIMETER CONTROLS SHALL BE IN PLACE WITH POND AND OUTLET STRUCTURE WITH SKIMMER CONSTRUCTED.
2. BEGIN REMAINDER OF ROUGH GRADING.
3. BEGIN BUILDING PAD CONSTRUCTION.
4. INSTALLATION OF UTILITIES INCLUDING INSTALLATION OF REMAINING STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED.
5. GRADING OF GRASSED DRAINAGE SWALES AND INSTALLATION OF CHECK DAMS.
6. FINE GRADING, PAVING, ETC.
7. BEGIN LANDSCAPE INSTALLATION PER PLAN BY OTHERS.
8. PROGRESS TO PERMANENT/FINAL STABILIZATION PER FINAL STABILIZATION SWPPP.

NOTE: CONSTRUCTION SEQUENCE ABOVE IS NOT A CONTRACTUAL SEQUENCE.

GENERAL NOTES:

1) SEE SPECIFICATIONS, DETAILS AND PLANS FOR EROSION CONTROL MEASURES REQUIRED.
2) THE CONTRACTOR(S) SHALL VISIT THE SITE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS/ DISCREPANCIES BETWEEN WORK INDICATED TO BE PERFORMED AND EXISTING FIELD CONDITIONS.
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3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.

NOTE:
INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES WAS OBTAINED FROM LOCAL UTILITY COMPANIES AND AVAILABLE DRAWINGS SUPPLIED BY THE OWNER AND IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING, HOWEVER, COX and DINKINS, INC. HAS NO NOTICE OR KNOWLEDGE OF ANY FACTS THAT WOULD LEAD US TO CONCLUDE THAT THE INFORMATION IS NOT ACCURATE. BUT UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED, THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS ASSIGNS AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT COX and DINKINS, INC. IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE UNDERGROUND INFORMATION. INFORMATION WITH RESPECT TO ABOVE GROUND MONUMENTS OF SUCH UTILITIES IS BASED UPON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS, AND IS SHOWN HEREON.

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ENGINEERS – SURVEYORS
COX AND DINKINS, INC.
724 BELTLINE BLVD.
COLUMBIA, SC 29205
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Fax: 803-765-0993
Email: cdinc@coxanddinkins.com

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 8/27/14 JAMES L. PRUITT, III

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS		
No.	DATE	DESCRIPTION

DEVELOPER:
MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072
803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA
CONSTRUCTION PHASE SWPPP

TMS	008098-01-023
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C10
DATE 08/27/2014	

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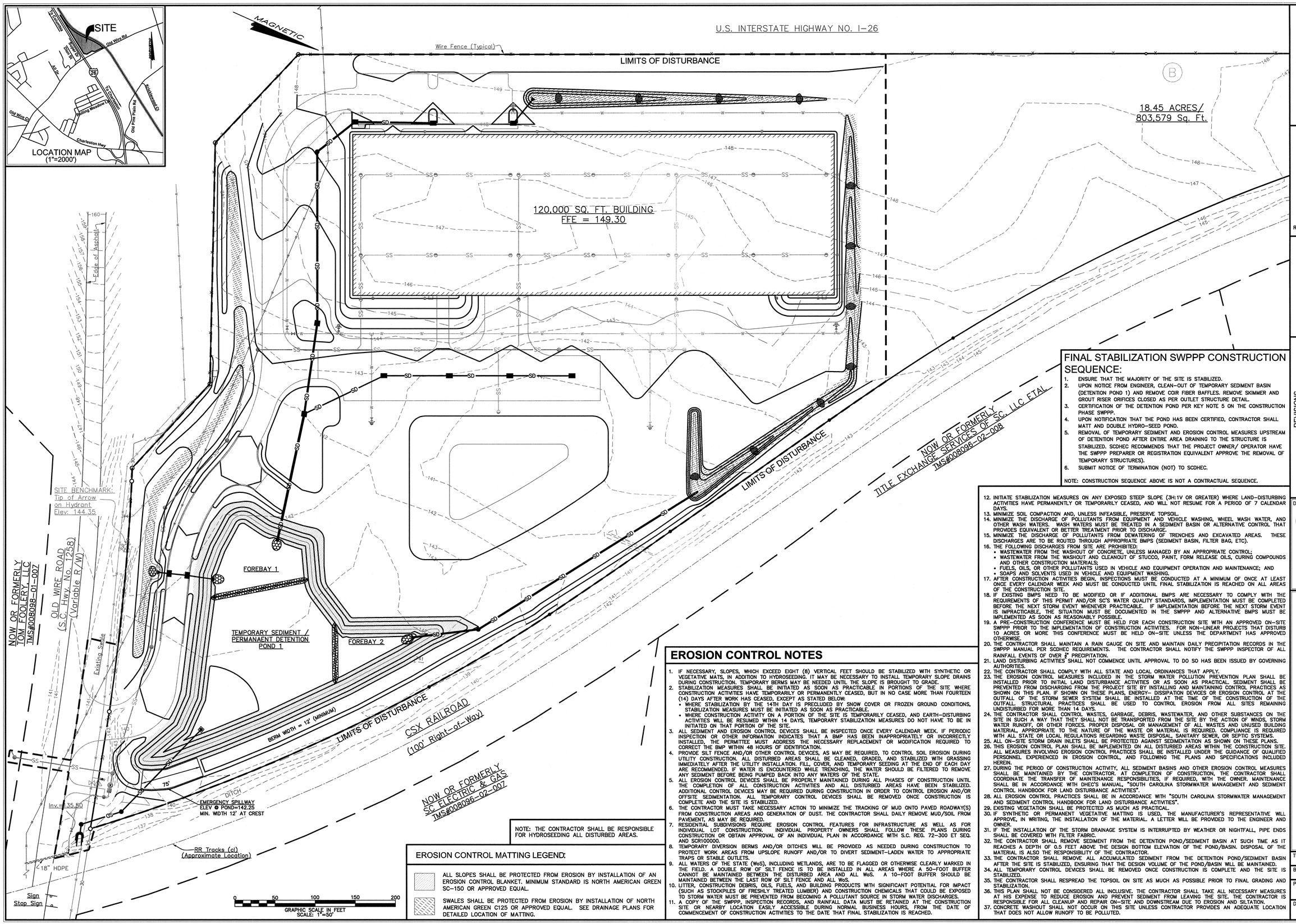

NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR HYDROSEEDING ALL DISTURBED AREAS.

EROSION CONTROL MATTING LEGEND:

ALL SLOPES SHALL BE PROTECTED FROM EROSION BY INSTALLATION OF AN EROSION CONTROL BLANKET. MINIMUM STANDARD IS NORTH AMERICAN GREEN SC-150 OR APPROVED EQUAL.

SWALES SHALL BE PROTECTED FROM EROSION BY INSTALLATION OF NORTH AMERICAN GREEN C125 OR APPROVED EQUAL. SEE DRAINAGE PLANS FOR DETAILED LOCATION OF MATTING.

EROSION CONTROL NOTES

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW:
   - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE IN INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
9. ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WoS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.
10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
11. A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC).
16. THE FOLLOWING DISCHARGES FROM SITE ARE PROHIBITED:
   - WASTEWATER FROM THE WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
   - WASTEWATER FROM THE WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
   - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
   - SOAPS AND SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF ONCE AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
20. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE ON SITE AND MAINTAIN DAILY PRECIPITATION RECORDS IN THE SWPPP MANUAL PER SCDHEC REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE SWPPP INSPECTOR OF ALL RAINFALL EVENTS OF OVER ½" PRECIPITATION.
21. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN ISSUED BY GOVERNING AUTHORITIES.
22. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
23. THE EROSION CONTROL MEASURES INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE INSTALLED PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE PROJECT SITE BY INSTALLING AND MAINTAINING CONTROL PRACTICES AS SHOWN ON THIS PLAN. IF SHOWN ON THESE PLANS, ENERGY- DISSIPATION DEVICES OR EROSION CONTROL AT THE OUTFALL OF THE STORM SEWER SYSTEM SHALL BE INSTALLED AT THE TIME OF THE CONSTRUCTION OF THE OUTFALL. STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION FROM ALL SITES REMAINING UNDISTURBED FOR MORE THAN 14 DAYS.
24. THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL STATE OR LOCAL REGULATIONS REGARDING WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEMS.
25. ALL ON-SITE STORM DRAIN INLETS SHALL BE PROTECTED AGAINST SEDIMENTATION AS SHOWN ON THESE PLANS.
26. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
27. DURING THE PERIOD OF CONSTRUCTION ACTIVITY, ALL SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, IF REQUIRED, WITH THE OWNER. MAINTENANCE SHALL BE IN ACCORDANCE WITH DHEC'S MANUAL, "SOUTH CAROLINA STORMWATER MANAGEMENT AND SEDIMENT CONTROL HANDBOOK FOR LAND DISTURBANCE ACTIVITIES".
28. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH "SOUTH CAROLINA STORMWATER MANAGEMENT AND SEDIMENT CONTROL HANDBOOK FOR LAND DISTURBANCE ACTIVITIES".
29. EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.
30. IF SYNTHETIC OR PERMANENT VEGETATIVE MATTING IS USED, THE MANUFACTURER'S REPRESENTATIVE WILL APPROVE, IN WRITING, THE INSTALLATION OF THE MATERIAL. A LETTER WILL BE PROVIDED TO THE ENGINEER AND OWNER.
31. IF THE INSTALLATION OF THE STORM DRAINAGE SYSTEM IS INTERRUPTED BY WEATHER OR NIGHTFALL, PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
32. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM THE DETENTION POND/SEDIMENT BASIN AT SUCH TIME AS IT REACHES A DEPTH OF 0.5 FEET ABOVE THE DESIGN BOTTOM ELEVATION OF THE POND/BASIN. DISPOSAL OF THE MATERIAL IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR.
33. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT FROM THE DETENTION POND/SEDIMENT BASIN AFTER THE SITE IS STABILIZED, ENSURING THAT THE DESIGN VOLUME OF THE POND/BASIN WILL BE MAINTAINED.
34. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
35. THE CONTRACTOR SHALL RESPREAD THE TOPSOIL ON SITE AS MUCH AS POSSIBLE PRIOR TO FINAL GRADING AND STABILIZATION.
36. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AT HIS EXPENSE TO REDUCE EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL CLEANUP AND REPAIR ON-SITE AND DOWNSTREAM DUE TO EROSION AND SILTATION.
37. CONCRETE WASHOUT SHALL NOT OCCUR ON THIS SITE UNLESS CONTRACTOR PROVIDES AN ADEQUATE LOCATION THAT DOES NOT ALLOW RUNOFF TO BE POLLUTED.

FINAL STABILIZATION SWPPP CONSTRUCTION SEQUENCE:

1. ENSURE THAT THE MAJORITY OF THE SITE IS STABILIZED.
2. UPON NOTICE FROM ENGINEER, CLEAN-OUT OF TEMPORARY SEDIMENT BASIN (DETENTION POND 1) AND REMOVE COIR FIBER BAFFLES. REMOVE SKIMMER AND GROUT RISER ORIFICES CLOSED AS PER OUTLET STRUCTURE DETAIL.
3. CERTIFICATION OF THE DETENTION POND PER KEY NOTE 5 ON THE CONSTRUCTION PHASE SWPPP.
4. UPON NOTIFICATION THAT THE POND HAS BEEN CERTIFIED, CONTRACTOR SHALL MATT AND DOUBLE HYDRO-SEED POND.
5. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES UPSTREAM OF DETENTION POND AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS STABILIZED. SCDHEC RECOMMENDS THAT THE PROJECT OWNER/ OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES).
6. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDHEC.

NOTE: CONSTRUCTION SEQUENCE ABOVE IS NOT A CONTRACTUAL SEQUENCE.

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 LANCE L. PRUITT

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS		
No.	DATE	DESCRIPTION

DEVELOPER:

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LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA
FINAL STABILIZATION SWPPP

TMS	008098-01-023
BOOK	K72-1
SF NO.	307-1
PROJECT NO.	1779
SHEET NO.	C11
DATE	08/27/2014

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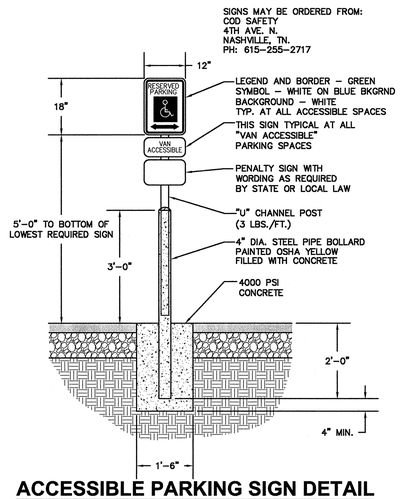
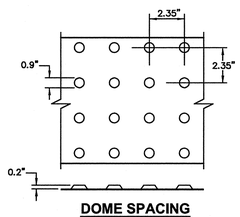


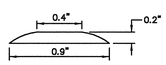
ACCESSIBLE PARKING SIGN DETAIL

NTS

ONE REQ'D AT EACH HANDICAP SPACE.
WHERE HANDICAP SPACES FACE EACH OTHER WITHOUT WALKWAY,
THERE SHALL BE ONE POST WITH SIGNS MOUNTED BOTH SIDES



DOME SPACING



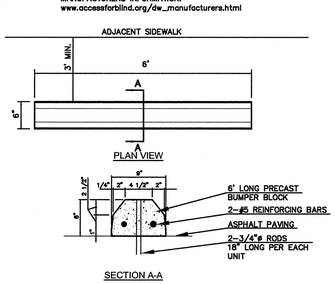
DOME SECTION

DETECTABLE WARNING DOME

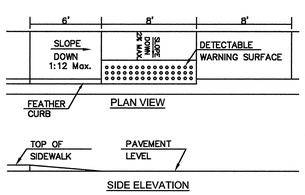
NTS

NOTE: DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH THE ADJOINING SURFACE, AND SHALL BE INTEGRAL TO THE WALKING SURFACE. DETECTABLE SURFACES SHALL DIFFER FROM ADJACENT SURFACES IN RESILIANCY OR SOUND-ON-CANE CONTACT.

FOR ADDITIONAL INFORMATION ON ADA DETECTABLE WARNING DOME, CONTRACTOR CAN REFER TO THE FOLLOWING WEB SITE FOR MANUFACTURERS INFORMATION:
www.accessforblind.org/dw_manufacturers.html

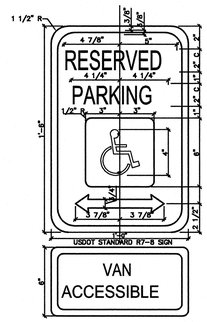


PRECAST CONCRETE WHEEL STOP



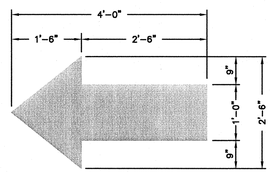
STANDARD IN-LINE RAMP DETAIL

NTS



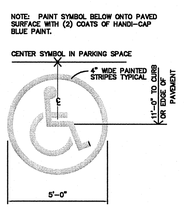
ACCESSIBLE PARKING SIGN DETAIL

NTS



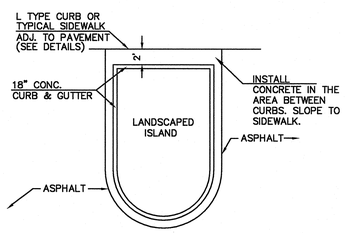
TYPICAL TRAFFIC ARROW ONLY FOR DRIVE AISLES NOT TO BE USED IN ROADWAYS

NTS



HANDICAP SYMBOL

NTS



CURB CUT DETAIL

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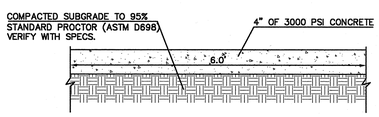
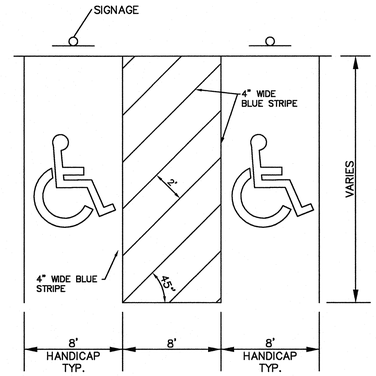


STANDARD SIDEWALK DETAIL

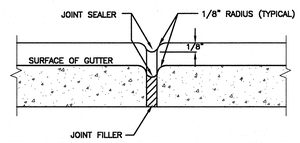
NTS



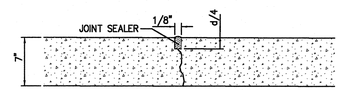
HANDICAP ACCESSIBLE PARKING STALLS

NOTES:

1) INSTALL HANDICAP ACCESSIBLE SIGN FOR LEFT PARKING SPACE AS SHOWN. SPACE TO BE DESIGNATED AS "VAN ACCESSIBLE" (SEE HANDICAP ACCESSIBLE SIGN DETAIL.)



TRANSVERSE EXPANSION JOINT

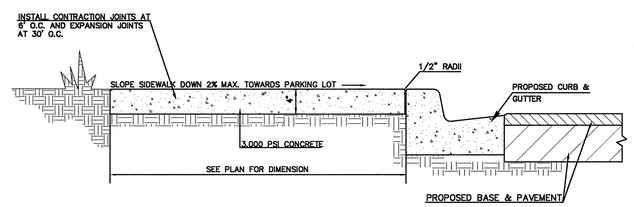


SAWED CONTROL JOINT

N.T.S.

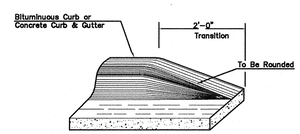
NOTES:

1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS.
   JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS.
   WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS SHALL BE SPACED AT 50-FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
   JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
4. SEE CONCRETE PAVEMENT DETAILS FOR PAVEMENT THICKNESS AND COMPRESSIVE STRENGTH.



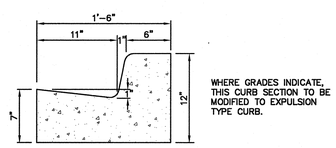
CONCRETE SIDEWALK DETAIL ALONG PARKING LOT

N.T.S.



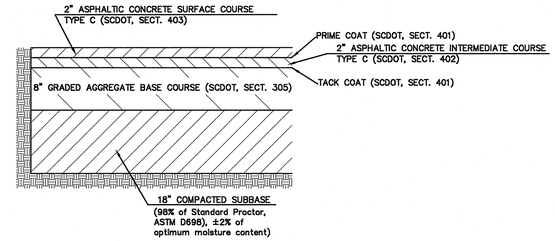
FEATHERING CURB AND GUTTER DETAIL

NO SCALE



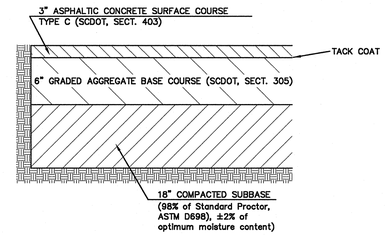
"L" TYPE CURB AND GUTTER

Min. Concrete Strength = 3000 p.s.i.
NTS



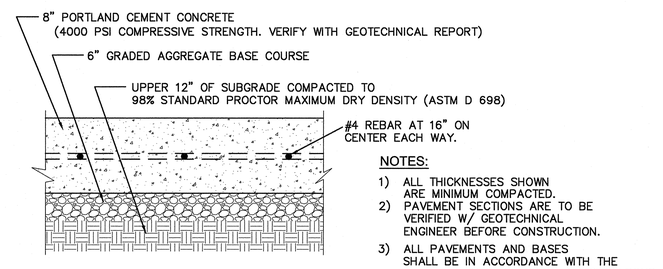
HEAVY DUTY ASPHALT CONCRETE PAVEMENT SECTION

CONTRACTOR TO VERIFY WITH PROJECT GEOTECHNICAL REPORT
NTS



LIGHT DUTY ASPHALT CONCRETE PAVEMENT SECTION

CONTRACTOR TO VERIFY WITH PROJECT GEOTECHNICAL REPORT
NTS

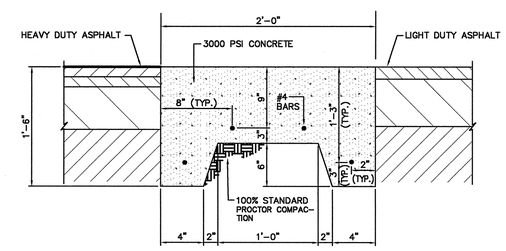


NOTES:

1) ALL THICKNESSES SHOWN ARE MINIMUM COMPACTED.
2) PAVEMENT SECTIONS ARE TO BE VERIFIED W/ GEOTECHNICAL ENGINEER BEFORE CONSTRUCTION.
3) ALL PAVEMENTS AND BASES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF SCDOT SPECIFICATIONS.

HEAVY DUTY PORTLAND CEMENT CONCRETE PAVEMENT

CONTRACTOR TO VERIFY WITH PROJECT GEOTECHNICAL REPORT
NTS



CONCRETE KEY DETAIL

NTS

COX AND DINKINS
ENGINEERS – SURVEYORS
COX AND DINKINS, INC.
724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 JAMES L. PRUITT, III

REGISTERED PROFESSIONAL ENGINEER
NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS		
No.	DATE	DESCRIPTION

DEVELOPER:

MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA

SITE DETAILS

TMS	008098-01-023
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C12
DATE 08/27/2014	

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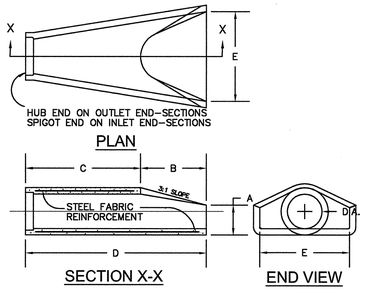
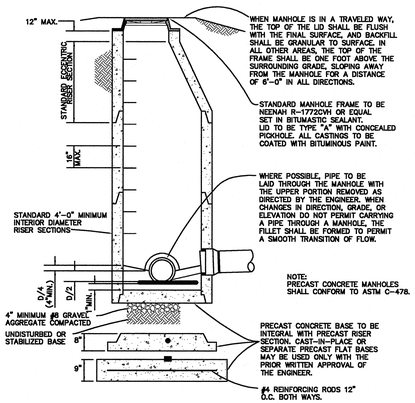


END SECTION DIMENSIONS					
DIA.	A	B	C	D	E
12"	4"	2'-0"	4'-1"	6'-1"	2'-0"
15"	6"	2'-3"	3'-10"	6'-1"	2'-6"
18"	9"	2'-3"	3'-10"	6'-1"	3'-0"
24"	10"	3'-7"	2'-8"	6'-3"	4'-0"
30"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"
36"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"
42"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"
48"	2'-0"	6'-0"	2'-2"	8'-2"	

FLARED END SECTION FOR CONCRETE PIPE CULVERTS

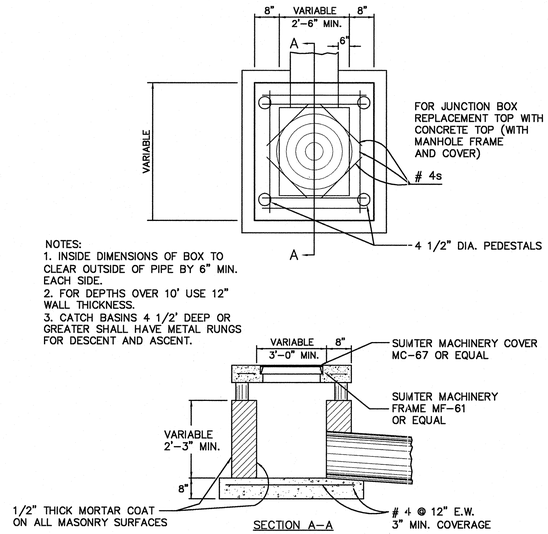
NTS



JUNCTION BOX DETAIL

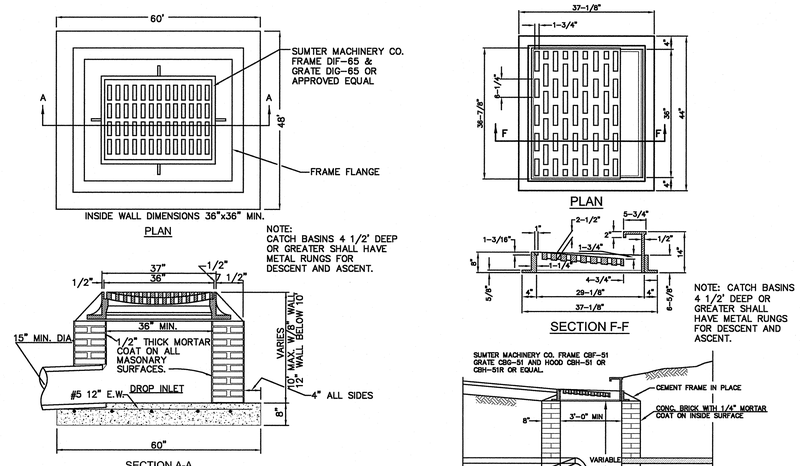
NTS

NOTE:
BRICK PRECAST OR CAST IN PLACE MAY BE AN OPTION USED BY THE CONTRACTOR. VERIFY WITH CIVIL ENGINEER PRIOR TO INSTALLATION



SLAB-TOP CATCH BASIN DETAIL

NTS

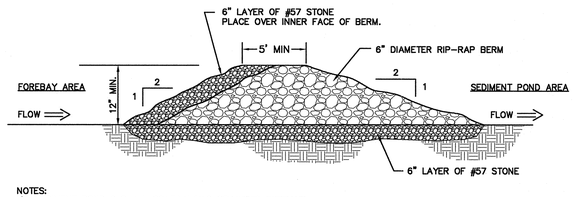


GRATE AND FRAME CATCH BASIN DETAIL

NTS

GRATE, FRAME AND HOOD CATCH BASIN DETAIL

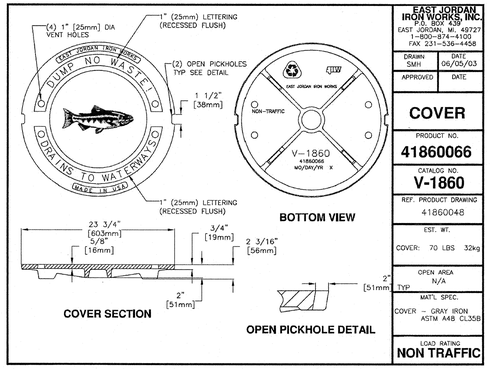
NTS

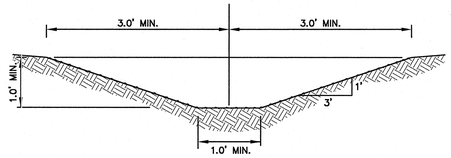


NOTES:
1) SEDIMENT POND 2 SHALL CONTAIN TWO SEPARATE FORBAYS INSTALLED AT EACH INLET AS SHOWN ON THE SWPPP.
2) CONTRACTOR SHALL REMOVE SEDIMENT FROM WITHIN EACH FOREBAY ONCE 18" HAS ACCUMULATED.

FOREBAY RIPRAP BERM DETAIL

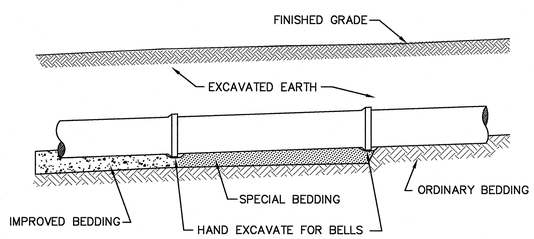
NTS





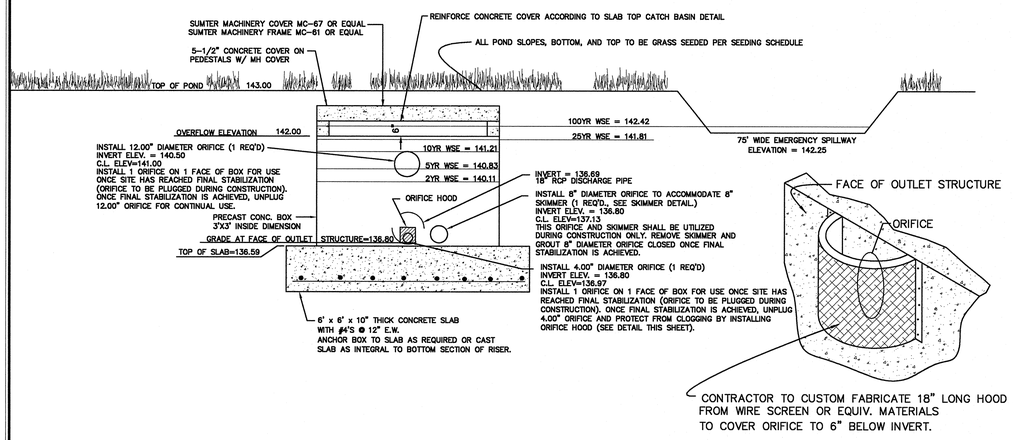
GRASSED SWALE DETAIL

NTS



TRENCH DETAIL

NTS



OUTLET STRUCTURE #1 DETAIL

NTS

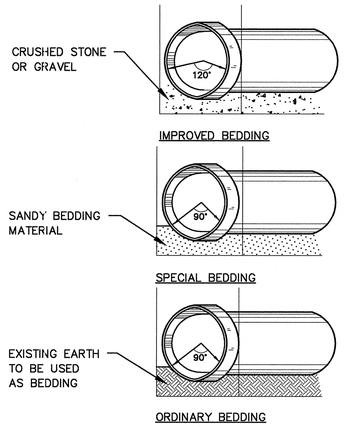
ORIFICE HOOD DETAIL

ATTACH AS SHOWN TO OUTSIDE OF OUTLET STRUCTURE

NTS

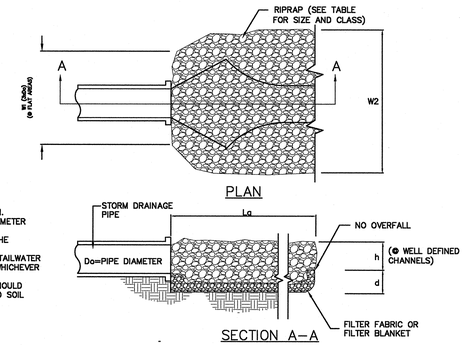
NOTE: LOCAL SANDY BEDDING MATERIAL TO BE USED WHERE UNSUITABLE OR UNUSABLE DITCH BOTTOMS ARE ENCOUNTERED.

NOTE: MIN. DEPTH OF BEDDING TO BE ONE FOURTH PIPE DIAMETER BUT IN NO CASE LESS THAN 4".



BEDDING DETAILS

NTS



NOTES
1. L IS THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS (DIMENSION h).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

(RA) RIPRAP APRON OUTLET PROTECTION DETAIL

NTS

				Riprap Data			Apron Data	
Outlet	Do (ft)	Velocity (fps)	Zone	Dia(in)	Depth (in)	Class	Length (ft)	Width (ft)
FES1	3	5.1	2	6	12	B	18	10
FES2	1.5	0	1	6	10	A	6	4
FES3	3.75	4.6	2	6	12	B	24	14
FES5	1.5	3.2	1	6	10	A	6	4
FES9	2	0	1	6	10	A	8	6
FES10	2.5	6.5	2	6	12	B	15	10
Pond Outfall	1.5	3.4	1	6	10	A	6	4

Note: Zone Category not for use by Contractor

COX AND DINKINS
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724 BELTLINE BLVD.
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803-254-0518
Fax: 803-765-0993
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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 24748 8/21/14 JAMES L. PRUITT, III

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS

No.	DATE	DESCRIPTION

DEVELOPER:
MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072
803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA
STORM DRAINAGE DETAILS

TMS 008098-01-023	
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C13
DATE 08/27/2014	

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SEEDING SCHEDULE

FROM MAY 1 – AUGUST 31

1 pounds Browntopmillet
2 pounds Hulled Bermuda
25 pounds 10–10–10 Fertilizer
75 pounds Limestone

or

1 pound Browntopmillet
1 pound Hulled Bermuda
*2 pounds Bahia Grass
25 pounds 10–10–10 Fertilizer
75 pounds Limestone

or

(Deep Sandy Soils)
2 pounds Browntopmillet
*3 pounds Bahia Grass
25 pounds 10–10–10 Fertilizer
75 pounds Limestone

FROM SEPTEMBER 1 – APRIL 30

2 pounds Annual Rye Grass
0.5 pound Hulled Bermuda
1.5 pounds Unhulled Bermuda
25 pounds 10–10–10 Fertilizer
75 pounds Limestone

or

2 pounds Annual Rye Grass
0.5 pound Hulled Bermuda
1 pound Unhulled Bermuda
*2 pounds Bahia Grass
25 pounds 10–10–10 Fertilizer
75 pounds Limestone

or

1 pound Annual Rye Grass
**3 pounds Fescue Grass
25 pounds 10–10–10 Fertilizer
75 pounds Limestone

or

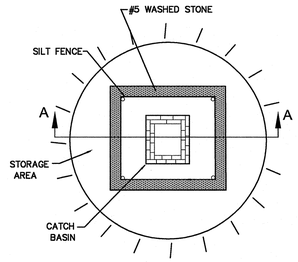
(Deep Sandy Soils)
1 pound Unhulled Bermuda
2 pounds Rye Grass or Grain Rye
*2 pounds Bahia Grass
25 pounds 10–10–10 Fertilizer
75 pounds Limestone

* Bahia Grass is a good eropsion control grass; however, it produces many seed heads which scatter to other areas. Bahia Grass is hard to mow, but it does not require the care that other grasses require. Around office buildings and within subdivisions, use 4 to 6 ounces of Centipede Grass in lieu of Bahia Grass or in combination with Bermuda Grass.

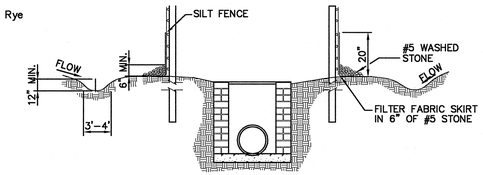
** For soils with clay subsoil. Do not plant in sandy soils.

Notes:

1. On all vegetated swales or ditches with side slopes (cut or fill) steeper than 2:1, add 4 to 6 ounces per 1,000 square feet of Weeping Love Grass seed to any of the above mixtures.
2. Swale and ditch bottoms should be double seeded.
3. All slopes steeper than 2:1 shall be hydroseeded.
4. Growth of Rye Grass in early spring must be suppressed to prevent Rye from choking out permanent grass such as Bermuda, Bahia or Fescue.



PLAN VIEW



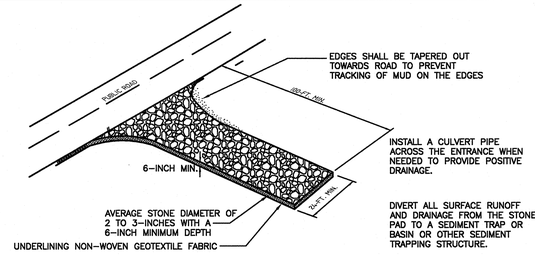
SECTION A-A

SB SILT-BOX INLET PROTECTION DETAIL

NTS

GENERAL NOTES:

1. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE TRAP.
2. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
3. THE STRUCTURE SHALL BE INSPECTED AFTER EACH STORM EVENT BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT AND REPAIRS MADE AS NECESSARY.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
5. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE BASIN HAS BEEN PROPERLY STABILIZED.
6. SEE SILT FENCE DETAIL FOR SILT FENCE INSTALLATION.



STABILIZED CONSTRUCTION ENTRANCE

When and Where to Use It
Stabilized construction entrances should be used at all points where traffic will be leaving a construction site and moving directly onto a public road.

Important Considerations
If washing is used, provisions must be made to intercept the wash water and trap the sediment before it is carried offsite. Washdown facilities shall be required as directed by SCDHEC as needed. Washdown areas in general must be established with crushed gravel and drain into a sediment trap or sediment basin.
Construction entrances should be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by vehicles.

Installation:
–Remove all vegetation and any objectionable material from the foundation area.
–Divert all surface runoff and drainage from stones to a sediment trap or basin.
–Install a non–woven geotextile fabric prior to placing any stone.
–Install a culvert pipe across the entrance when needed to provide positive drainage.
–The entrance shall consist of 1–inch to 3–inch D50 stone placed at a minimum depth of 6–inches.
–Minimum dimensions of the entrance shall be 24–feet wide by 100–feet long, and may be modified as necessary to accommodate site constraints.
–The edges of the entrance shall be tapered out towards the road to prevent tracking of mud at the edge of the entrance.

Inspection and Maintenance:
Inspect construction entrances every seven (7) calendar days and within 24–hours after each rainfall event that produces ½–inches or more of precipitation, or after heavy use. Check for mud and sediment buildup and pad integrity. Make daily inspections during periods of wet weather. Maintenance is required more frequently in wet weather conditions. Reshape the stone pad as needed for drainage and runoff control.

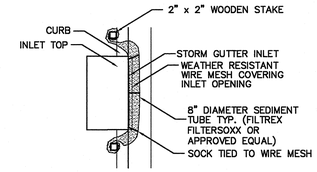
Wash or replace stones as needed and as directed by the inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce mud being carried off–site by vehicles. Frequent washing will extend the useful life of stone.

Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.

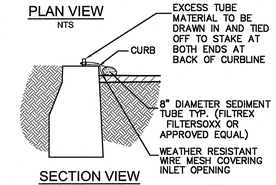
Repair any broken pavement immediately.

CE TEMPORARY CONSTRUCTION ENTRANCE

NTS

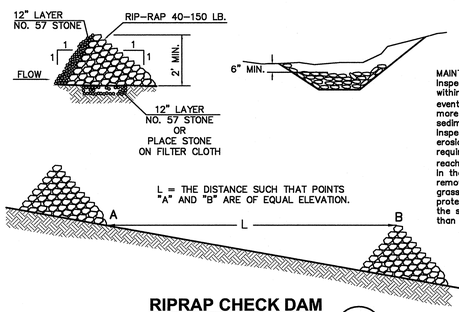


PLAN VIEW
NTS



SECTION VIEW
NTS

ST SEDIMENT TUBE INLET PROTECTION DETAILS

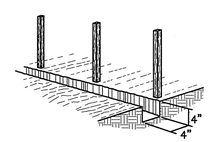


MAINTENANCE:
Inspect every 7 calendar days and within 24–hours after each rainfall event that produces ½ inches or more of precipitation. Inspect for sediment and debris accumulation. Inspect rock check dam edges for erosion and repair promptly as required. Remove sediment when it reaches ⅓ the original check height. In the case of grass–lines swales, remove rock check dams when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4 percent.

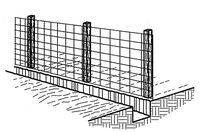
RIPRAP CHECK DAM

NTS

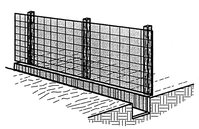
CD



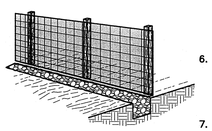
1. SET POSTS AND EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



2. STAPLE WIRE FENCING TO THE POST.

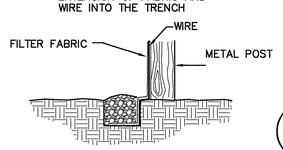


3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

EXTENSION OF FABRIC AND WIRE INTO THE TRENCH

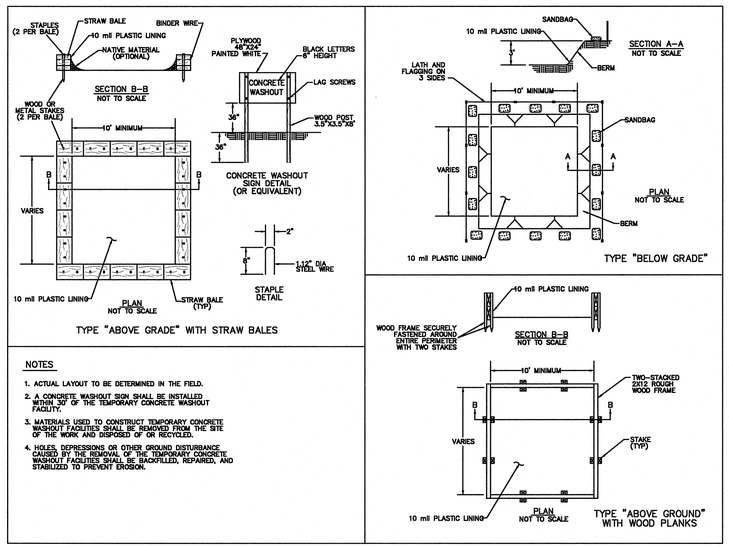


SILT FENCE NOTES:

1. THE HEIGHT OF A SILT FENCE SHOULD NOT EXCEED 36 INCHES. HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE THE STRUCTURE TO FAIL.
2. THE FILTER FABRIC SHOULD BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE FENCE TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, A FILTER CLOTH SHOULD BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6–INCH OVERLAP AND SEALED SECURELY.
3. METAL POSTS SHOULD BE SPACED A MAXIMUM OF 10 FEET APART AT THE FENCE LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE. POST SPACING SHOULD NOT EXCEED 6 FEET.
4. A TRENCH SHOULD BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS, UPSLOPE FROM THE FENCE.
5. WHEN STANDARD STRENGTH FILTER IS USED, A WIRE MESH SUPPORT FENCE SHOULD BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY TIE WIRES OR HOG RINGS. THE WIRE SHOULD EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHOULD NOT EXCEED MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHOULD BE WIRED TO THE FENCE, AND 8 INCHES OF THE THE FABRIC SHOULD BE EXTENDED INTO THE TRENCH. THE FABRIC SHOULD NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO TREES.
7. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF NO. 6 APPLYING.
8. THE TRENCH SHOULD BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
9. SEDIMENT SHALL BE REMOVED FROM SILT FENCE AND RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE FENCE.

SF SILT FENCE DETAIL

NTS



NOTES

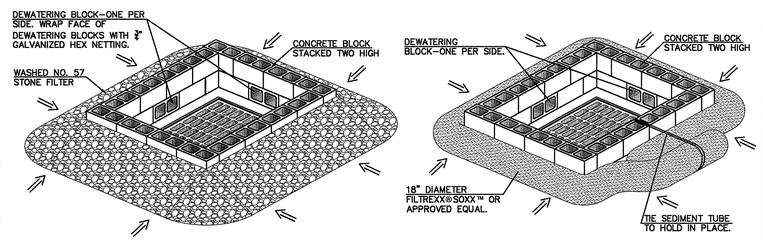
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

CONCRETE WASHOUT DETAIL

MAINTENANCE:

MATERIAL REMOVAL:
CHECK ALL CONCRETE WASHOUT FACILITIES DAILY TO DETERMINE IF THEY HAVE BEEN FILLED TO 75 PERCENT CAPACITY, WHICH IS WHEN MATERIALS NEED TO BE REMOVED. BOTH ABOVE- AND BELOW- GROUND SELF INSTALLED WASHOUTS SHOULD BE INSPECTED DAILY TO ENSURE THAT PLASTIC LININGS ARE INTACT AND SIDEWALLS HAVE NOT BEEN DAMAGED BY CONSTRUCTION ACTIVITIES. PREFABRICATED WASHOUT CONTAINERS SHOULD BE INSPECTED DAILY AS WELL TO ENSURE THE CONTAINER IS NOT LEAKING OR NEARING 75 PERCENT CAPACITY. INSPECTORS SHOULD NOTE WHETHER THE FACILITIES ARE BEING USED REGULARLY; IF DRIVERS WASH OUT THEIR CHUTES OR HOPPERS IN OTHER LOCATIONS, THE SITE SUPERINTENDENT MAY NEED TO PROVIDE MORE EDUCATION, INSTALL ADDITIONAL SIGNAGE, OR PLACE ADDITIONAL WASHOUTS IN MORE CONVENIENT LOCATIONS.

INSPECTION:
CONCRETE WASHOUTS ARE DESIGNED TO TO PROMOTE EVAPORATION WHERE FEASIBLE. HOWEVER, IF STORED LIQUIDS HAVE NOT EVAPORATED AND THE WASHOUT IS NEARING CAPACITY, VACUUM AND DISPOSE OF THEM IN AN APPROVED MANNER - CHECK WITH THE LOCAL SANITARY SEWER AUTHORITY TO DETERMINE IF THERE ARE SPECIAL DISPOSAL REQUIREMENTS FOR CONCRETE WASH WATER. REMOVE LIQUIDS OR COVER THE STRUCTURES BEFORE PREDICTED RAINSTORMS TO PREVENT OVERFLOWS. COMPANIES THAT OFFER PREFABRICATED AND WATERTIGHT WASHOUT CONTAINERS GENERALLY OFFER A VACUUM SERVICE TO REMOVE THE LIQUID MATERIAL. HARDENED SOLIDS CAN BE REMOVED WHILE WHOLE OR CAN BE BROKEN UP FIRST DEPENDING ON THE TYPE OF EQUIPMENT AVAILABLE AT YOUR SITE. SOLIDS CAN BE REUSED ONSITE OR HAUL THEM AWAY FOR RECYCLING - CRUSHED CONCRETE MAKES EXCELLENT AGGREGATE FOR ROADBEDS AND OTHER BUILDING APPLICATIONS. CHECK WITH THE LOCAL RECYCLING AGENCY TO IDENTIFY OPPORTUNITIES FOR CONCRETE RECYCLING. WHEN MATERIALS ARE REMOVED FROM THE CONCRETE WASHOUT, BUILD A NEW STRUCTURE OR, IF THE PREVIOUS STRUCTURE IS STILL INTACT, INSPECT THE STRUCTURE FOR SIGNS OF WEAKENING OR DAMAGE AND MAKE ANY NECESSARY REPAIRS. LINE THE STRUCTURE WITH NEW PLASTIC THAT IS FREE OF HOLES OR TEARS AND REPLACE SIGNAGE IF NECESSARY. IT IS VERY IMPORTANT THAT NEW PLASTIC IS USED AFTER EVERY CLEANING BECAUSE PUMPS AND CONCRETE REMOVAL EQUIPMENT CAN DAMAGE THE EXISTING LINER.



GRATE & FRAME BLOCK & GRAVEL OPTION | **GRATE & FRAME BLOCK & SEDIMENT TUBE OPTION**

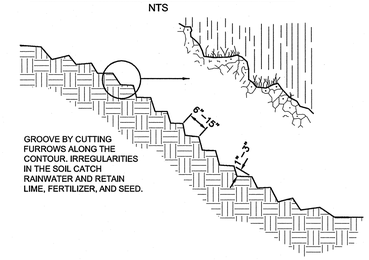
MAINTENANCE:
Inspect every 7 calendar days and within 24–hours after each rainfall event that produces ½ inches or more of precipitation. Remove sediment when it reaches ⅓ the height of the blocks or sediment tube. If a sump is used, remove sediment when it fills ⅓ the depth of the hole. If the stone becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced. Since cleaning of gravel at a construction site may be difficult, an alternative approach would be to use the clogged stone as fill and put fresh stone around the inlet. Remove inlet protection structures after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

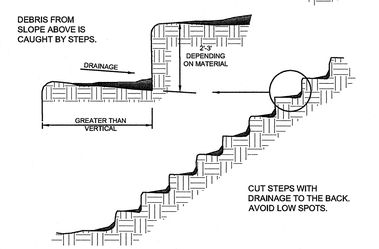
DROP INLET SEDIMENT FILTER DETAIL

NTS

SURFACE ROUGHENING

NTS





CONSTRUCTION SPECIFICATIONS:

CUT SLOPE ROUGHENING FOR AREA NOT TO BE MOWED
- STAIR-STEP GRADING ON ANY ERODIBLE MATERIAL SOFT ENOUGH TO BE RIPPED WITH A BULLDOZER. SLOPES CONSISTING OF SOFT ROCK WITH SOME SUBSOIL ARE PARTICULARLY SUITED TO STAIR-STEP GRADING.
- MAKE THE VERTICAL CUT DISTANCE LESS THAN THE HORIZONTAL DISTANCE, AND SLIGHTLY SLOPE THE HORIZONTAL POSITION OF THE "STEP" IN TOWARD THE VERTICAL WALL.
- DO NOT MAKE INDIVIDUAL VERTICAL CUTS MORE THAN 2 FEET IN SOFT MATERIALS OR MORE THAN 3 FEET IN ROCKY MATERIALS.
- GROOVING USES MACHINERY TO CREATE A SERIES OF RIDGES AND DEPRESSIONS THAT RUN ACROSS THE SLOPE (ON THE CONTOUR).
- GROOVE USING ANY APPROPRIATE IMPLEMENT THAT CAN BE SAFELY OPERATED ON THE SLOPE, SUCK AS DISKS, TILLERS, SPRING HARROWS, OR THE TEETH ON A FRONT END LOADER BUCKET. DO NOT MAKE SUCH GROOVES LESS THAN 3 INCHES DEEP NOR MORE THAN 15 INCHES APART.

FILL SLOPE ROUGHENING FOR AREAS NOT TO BE MOWED
- PLACE FILL SLOPES WITH A GRADIENT STEEPER THAN 3:1 IN LIFTS NOT TO EXCEED 9 INCHES, AND MAKE SURE EACH LIFT IS PROPERLY COMPACTED. ENSURE THAT THE FACE OF THE SLOPE CONSISTS OF LOOSE, UNCOMPACTED FILL 4 TO 6 INCHES DEEP. USE GROOVING, AS DESCRIBED ABOVE, TO ROUGHEN THE FACE OF THE SLOPES, IF NECESSARY.
- DO NOT BLADE OR SCRAPE THE FINAL SLOPE FACE.

CUTS, FILLS, AND GRADED AREAS THAT WILL BE MOWED
MAKE MOWED SLOPES NO STEEPER THAN 3:1
- ROUGHEN THESE AREAS TO SHALLOW GROOVES BY NORMAL TILLING, DISKING, HARROWING, OR USE OF CULTIPACKER-SEEDER. MAKE THE FINAL PASS OF ANY SUCK TILLAGE IMPLEMENT ON THE CONTOUR.
- MAKE GROOVES, FORMED BY SUCH IMPLEMENTS, CLOSE TOGETHER (LESS THAN 10 INCHES) AND NOT LESS THAN 1 INCH DEEP.
- EXCESSIVE ROUGHNESS IS UNDESIRABLE WHEN MOWING IS PLANNED.

ROUGHENING WITH TRACKED MACHINERY
- LIMIT ROUGHENING WITH TRACKED MACHINERY TO SANDY SOILS TO AVOID UNDUE COMPACTION OF THE SOIL SURFACE. TRACKING IS GENERALLY NOT AS EFFECTIVE AS THE OTHER ROUGHENING METHODS DESCRIBED.
- OPERATE TRACKED MACHINERY UP AND DOWN THE SLOPE TO LEAVE HORIZONTAL DEPRESSIONS IN THE SOIL. DO NOT BACK-BLADE DURING THE FINAL GRADING OPERATION.
- SEEDING - IMMEDIATELY SEED AND MULCH ROUGHENED AREAS TO OBTAIN OPTIMUM SEED GERMINATION AND GROWTH.

MAINTENANCE:
PERIODICALLY CHECK THE SEEDED SLOPES FOR RILLS AND WASHES. FILL THESE AREAS SLIGHTLY ABOVE THE ORIGINAL GRADE, THEN RESEED AND MULCH AS SOON AS POSSIBLE.

COX AND DINKINS
ENGINEERS – SURVEYORS
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Email: cdinc@coxanddinkins.com

REGISTERED PROFESSIONAL ENGINEER NO. 24748

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS

No.	DATE	DESCRIPTION

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212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072
803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA
SWPPP DETAILS

TMS	008098-01-023
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C14
DATE 08/27/2014	

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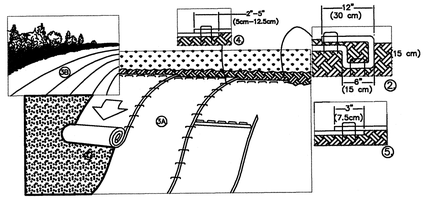


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS SHOULD UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES / STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM. STAPLES/ STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

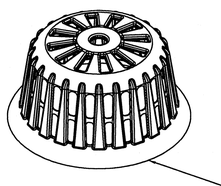
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

SLOPE STABILIZATION DETAIL

N.T.S.

NOTE: IF REQUIRED BY FIELD CONDITIONS, GEOTECHNICAL/ ENGINEER OR BY REGULATORY AGENCY



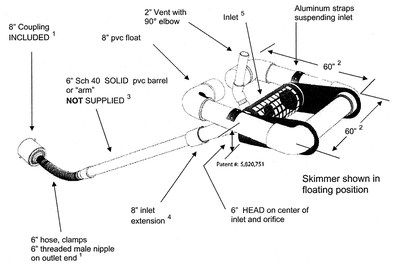
FILTER SHALL BE PLACED DIRECTLY ON TOP OF CATCH BASIN TO PREVENT SEDIMENT LOSS

CATCH BASIN SEDIMENT FILTER

*OR APPROVED EQUAL
NTS

MAINTENANCE:
Inspect every 7 calendar days and within 24–hours after each rainfall event that produces ½ inches or more of precipitation. Any repairs should be handled immediately. Inspect after installation to insure that no gaps exist that may permit sediment to enter the storm drainage system. Remove and/or replace rigid inlet filters to adapt to changing construction site conditions. Clean the rigid inlet protection filter material when it becomes covered or clogged with deposited sediment. Replace the rigid inlet protection filter material as directed by the Engineer.

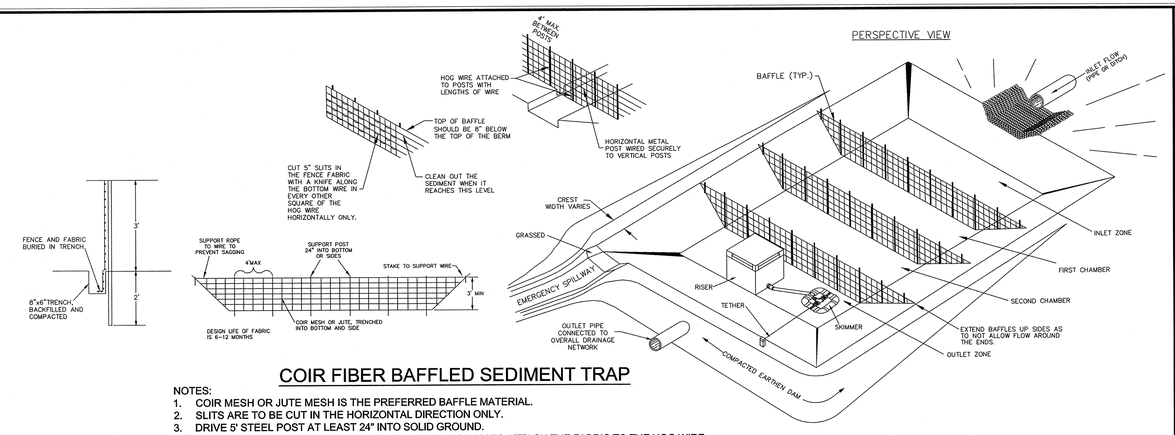
8" *Faircloth Skimmer®* Cut Sheet
J. W. Faircloth & Son, Inc.
www.FairclothSkimmer.com



1. Hose can be attached to outlet using the threaded 6" nipple. Typical methods used: on a metal structure a steel stubout welded on the side at the bottom with a 6" threaded coupling or reducers; on a concrete structure with a hole or orifice at the bottom, use a steel plate with a hole and coupling welded to it that will fit over the hole in the concrete and bolted to the structure with sealant.
2. Dimensions are approximate, not intended as plans for construction.
3. Barrel (solid, not foam core pipe) should be 1.4 times the depth of water with a minimum length of 8' so the inlet can be pulled to the side for maintenance. If more than 12' long weight may have to be added to inlet to counter the increased buoyancy.
4. Inlet tapers down from 8" maximum inlet to a 6" barrel and hose. Barrel is smaller to reduce buoyancy and tendency to lift inlet but is sufficient for flow through inlet because of slope. The inlet orifice can be reduced using the plug and cutter provided to control the outflow rate.
5. Inlet is 12" pipe between the straps with slots cut in the inlet and aluminum screen door (smaller than shown in illustration) for access to the inlet and orifice inside.
6. Shipped assembled. User glues inlet extension and barrel, installs vent, cuts orifice in plug and attaches to outlet pipe or structure. Includes flexible hose, rope, orifice cutter, etc.
7. Shipped in cardboard box on pallet. Total weight 400 lbs, dimension 62"x62"x30".

8inchCut TM 10-11 October 18, 2011

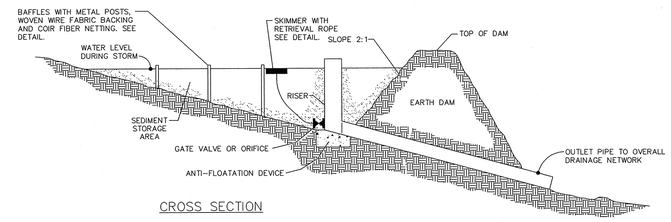
SKIMMER DETAIL



COIR FIBER BAFFLED SEDIMENT TRAP

NOTES:
1. COIR MESH OR JUTE MESH IS THE PREFERRED BAFFLE MATERIAL.
2. SLITS ARE TO BE CUT IN THE HORIZONTAL DIRECTION ONLY.
3. DRIVE 5' STEEL POST AT LEAST 24" INTO SOLID GROUND.
4. USE STAPLES 1' APART HORIZONTALLY AND VERTICALLY TO ATTACH THE FABRIC TO THE HOG WIRE.
5. SPACE THE BAFFLES AS ACCORDING TO THE APPROVED PLAN.
6. THE FLOOR OF THE BASIN IN THE OUTLET ZONE AND BERMS SHOULD BE SEEDED IMMEDIATELY AFTER THE BASIN IS CONSTRUCTED.

MAINTENANCE:
1. INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HAVE THE DESIGNED STORAGE DEPTH.
4. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE THE BAFFLES AND ALL SEDIMENT, AND STABILIZE AS REQUIRED.



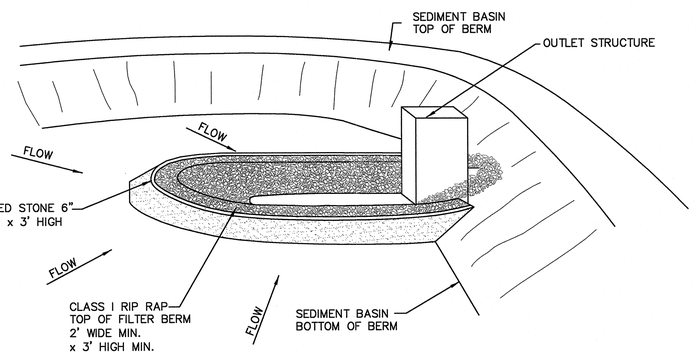
CROSS SECTION

SEDIMENT BASIN DETAIL

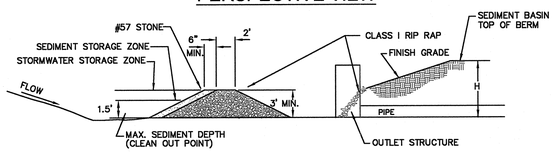
CONSTRUCTION SPECIFICATIONS:
THE PERMANENT RISER AND BARREL STRUCTURE ARE TO BE INSTALLED AND UTILIZED IN THE SEDIMENT BASIN. A METAL PLATE (OR APPROVED EQUAL) WITH A HOLE LARGE ENOUGH TO ATTACH THE SKIMMER IS TO BE INSTALLED IN THE RCP STUB PIPE FROM THE PERMANENT RISER AND SEALED WITH A WATER TIGHT CAULK/EPOXY. THE TEMPORARY 2" SKIMMER IN THE SEDIMENT BASIN SHALL BE ATTACHED TO THE HOLE IN THE METAL PLATE AND SEALED WITH A WATER TIGHT CAULK/EPOXY. ONCE THE SITE IS STABILIZED AND THE SEDIMENT BASIN IS READY TO BE CONVERTED TO THE PERMANENT DETENTION BASIN, THE PLATE AND SKIMMER SHALL BE REMOVED AND THE PERMANENT DRY DETENTION BASIN SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS.

MAINTENANCE:
INSPECT SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND MAKE ANY NECESSARY REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. PLACE REMOVED SEDIMENT IN AN AREA WITH SEDIMENT CONTROLS.

CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.



PERSPECTIVE VIEW



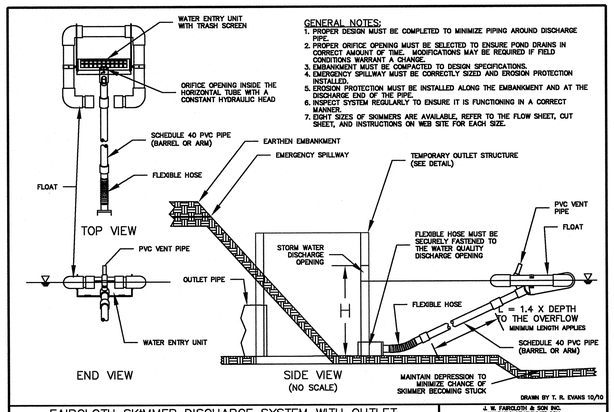
SECTION

FB

GENERAL NOTES:
DIMENSIONS SHOWN ARE THE MINIMUM ACCEPTED UNLESS OTHERWISE NOTED.

GRAVEL AND RIPRAP TEMPORARY FILTER BERM DETAIL

NTS



GENERAL NOTES:
1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

DRAWN BY T. R. EVANS 10/10

FAIRCLOTH SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE

J. W. FAIRCLOTH & SON INC.
WWW.FAIRCLOTHSKIMMER.COM
TELEPHONE: (919) 733-1344
FAX: (919) 733-1398
EMAIL: WARREN@FAIRCLOTHSKIMMER.COM

MAINTENANCE:
INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE THE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

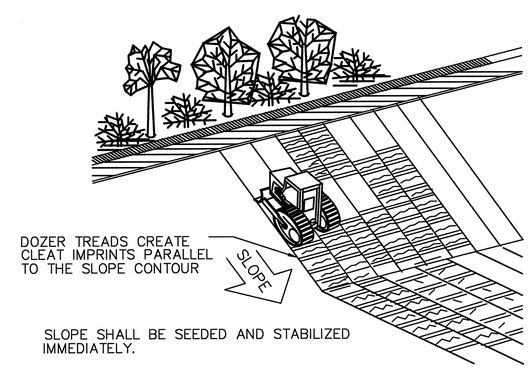
REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OF BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT FOR PIPING SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.



SLOPE SHALL BE SEEDED AND STABILIZED IMMEDIATELY.

TRACKING DETAIL

NTS

COX AND DINKINS
ENGINEERS – SURVEYORS
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724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 8/27/14 PRUITT

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS

No.	DATE	DESCRIPTION

DEVELOPER:
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LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA
SWPPP DETAILS

TMS	008098-01-023
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C15
DATE 08/27/2014	

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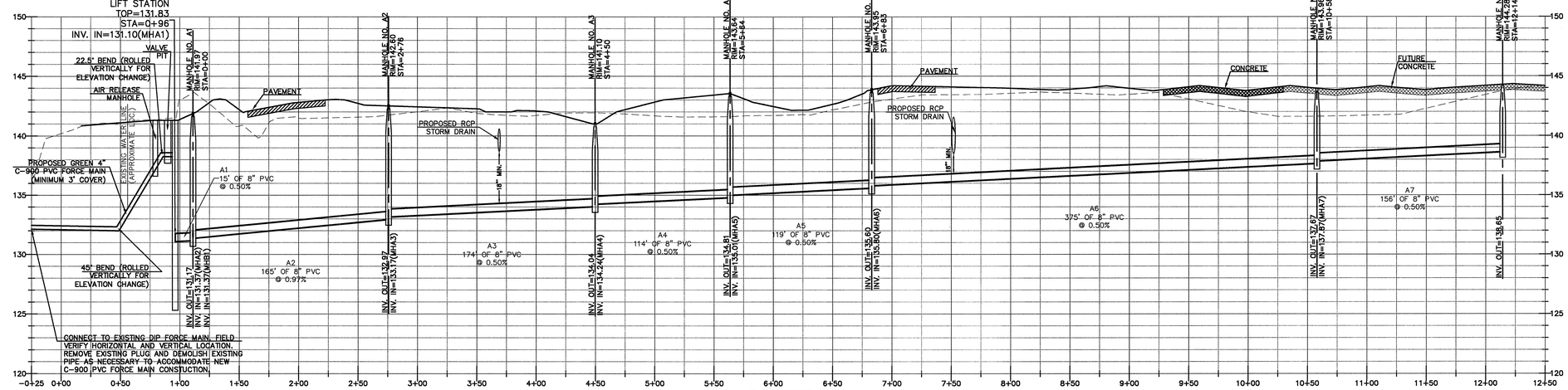
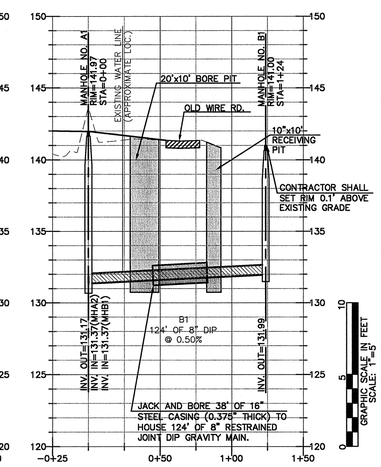


SS LINE A



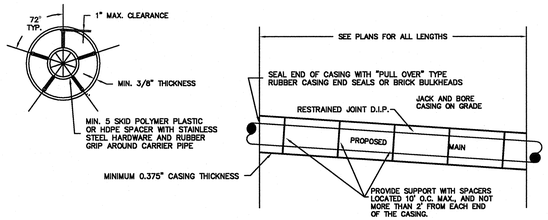
SS LINE B

GRAPHIC SCALE IN FEET
SCALE: 1"=50'

GRAVITY SEWER LINES SHALL BE GREEN IN COLOR.

ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE COATED ON THE INTERIOR SURFACE WITH PROTECTO 401 COATING.

NOTES:
1) OTHER UTILITY CROSSINGS MAY EXIST THAT ARE NOT SHOWN ON THIS PROFILE.
2) AS SHOWN, PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURES.

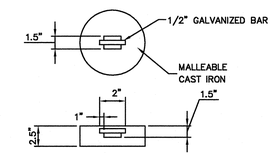


NOTES
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH CITY OF CAYCE, AND SCDOT SPECIFICATIONS.
- THE BORE PIT SHALL BE BACKFILLED WITH SELECT FILL MATERIAL.

PREFERRED MATERIALS
- SPACERS – BWM (KP), CASCADE (PHOENIX GOLD)
- END SEALS – BWM (PO), CASCADE (CCES)

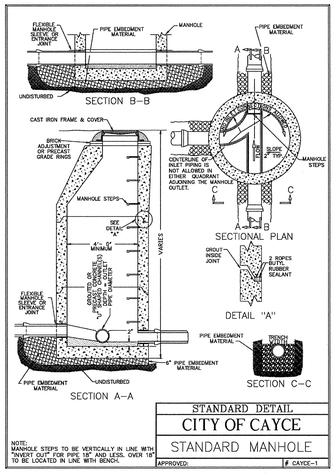
BORE DETAIL

NOT TO SCALE



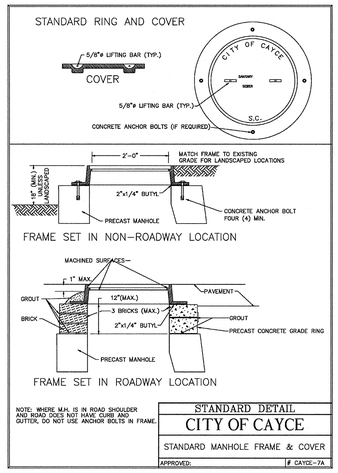
CLEANOUT PLUG DETAIL

NTS



NOTE:
MANHOLE STEPS TO BE VERTICALLY IN LINE WITH "INVERT OUT" FOR PIPE 18" AND LESS. OVER 18" TO BE LOCATED IN LINE WITH BENCH.

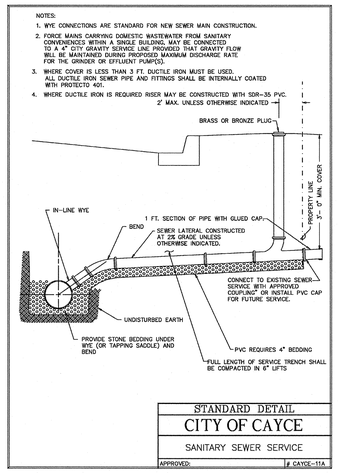
STANDARD DETAIL
CITY OF CAYCE
STANDARD MANHOLE
APPROVED: # CAYCE–1



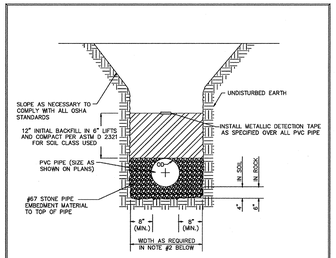
NOTE: WHERE M.H. IS IN ROAD SHOULDER AND ROAD DOES NOT HAVE CURB AND GUTTER, DO NOT USE ANCHOR BOLTS IN FRAME.

STANDARD DETAIL
CITY OF CAYCE
STANDARD MANHOLE FRAME & COVER
APPROVED: # CAYCE–7A

NOTES:
1. WYE CONNECTIONS ARE STANDARD FOR NEW SEWER MAIN CONSTRUCTION.
2. FORCE MAINS CARRYING DOMESTIC WASTEWATER FROM SANITARY CONVENIENCES WITHIN A SINGLE BUILDING, MAY BE CONNECTED TO A 4" CITY GRAVITY SERVICE LINE PROVIDED THAT GRAVITY FLOW WILL BE MAINTAINED DURING PROPOSED MAXIMUM DISCHARGE RATE FOR THE GRINDER OR EFFLUENT PUMP(S).
3. WHERE COVER IS LESS THAN 3 FT. DUCTILE IRON MUST BE USED. ALL DUCTILE IRON SEWER PIPE AND FITTINGS SHALL BE INTERNALLY COATED WITH PROTECTO 401.
4. WHERE DUCTILE IRON IS REQUIRED RISER MAY BE CONSTRUCTED WITH SDR-35 PVC.



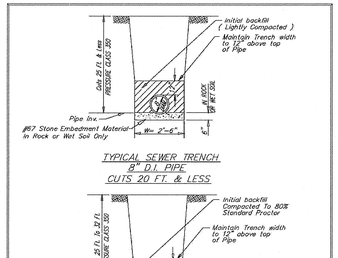
STANDARD DETAIL
CITY OF CAYCE
SANITARY SEWER SERVICE
APPROVED: # CAYCE–11A



PVC GRAVITY SEWER TRENCH DETAIL
NOT TO SCALE

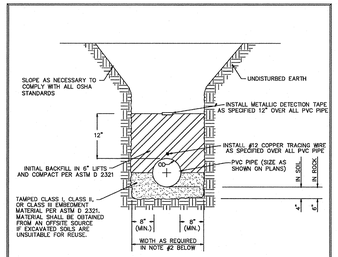
NOTES:
1. WHERE THE TRENCH WILL BE WITHIN THREE FEET OF THE EDGE OF THE EXISTING PAVEMENT, FLOWABLE FILL MAY BE REQUIRED FOR BACKFILL MATERIAL. CONSULT ENCROACHMENT PERMITS FOR SPECIFIC REQUIREMENTS.
2. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16 IN. OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 IN.
3. NO BOULDERS OR STONES WILL BE USED IN INITIAL BACKFILL OR 2 FEET ABOVE TOP OF PIPE.
4. PVC PIPE NOT ALLOWED WITH LESS THAN 3'–0" COVER.

STANDARD DETAIL
CITY OF CAYCE
PVC GRAVITY SEWER TRENCH DETAIL
APPROVED: # CAYCE–23A



NOTE:
1) DEPTHS OF CUT OR PIPE SIZES GREATER THAN THOSE SHOWN ON THE TRENCH DETAILS REQUIRE SPECIAL DESIGN AND SUBMITTAL OF DESIGN DATA BY THE ENGINEER.
2) ABOVE TRENCH DETAILS ARE FOR TRENCH INSTALLATIONS. SEWERS INSTALLED IN POSITIVE OR NEGATIVE PROJECTING LAYING CONDITIONS REQUIRE SPECIAL DESIGN AND SUBMITTAL OF DESIGN DATA BY THE ENGINEER.
3) ALL DUCTILE IRON PIPE AND FITTINGS FOR SEWER SHALL BE COATED WITH PROTECTO 401 ON THE INTERIOR SURFACES.

STANDARD DETAIL
CITY OF CAYCE
DUCTILE IRON GRAVITY SEWER TRENCH DETAIL
APPROVED: # DCAYCE–25



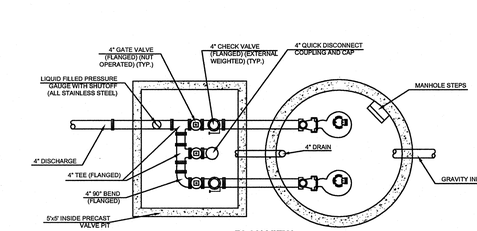
PVC WATERLINE AND WASTEWATER FORCEMAIN TRENCH DETAIL
NOT TO SCALE

NOTES:
1. WHERE THE TRENCH WILL BE WITHIN THREE FEET OF THE EDGE OF THE EXISTING PAVEMENT, FLOWABLE FILL MAY BE REQUIRED FOR BACKFILL MATERIAL. CONSULT ENCROACHMENT PERMITS FOR SPECIFIC REQUIREMENTS.
2. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16 IN. OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 IN.
3. NO BOULDERS OR STONES WILL BE USED IN INITIAL BACKFILL OR 2 FEET ABOVE TOP OF PIPE.
4. PVC PIPE NOT ALLOWED WITH LESS THAN 3'–0" COVER.

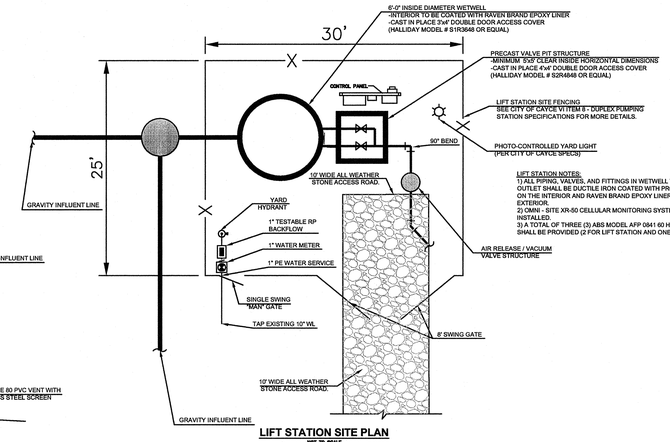
STANDARD DETAIL
CITY OF CAYCE
PVC WATERLINE AND WASTEWATER FORCEMAIN TRENCH DETAIL
APPROVED: # CAYCE–23B

SANITARY SEWER DETAILS

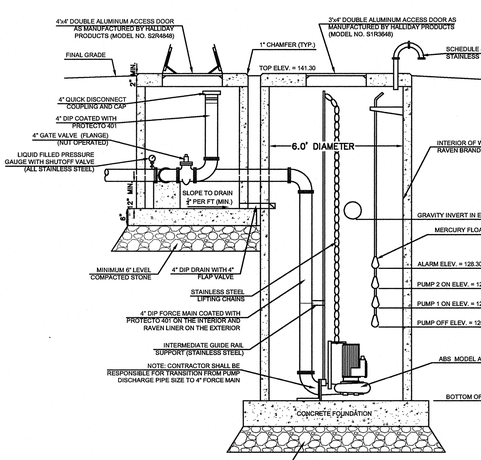
NOT TO SCALE



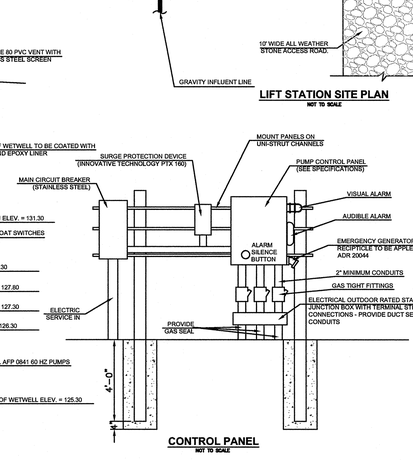
PLAN VIEW
NOT TO SCALE



LIFT STATION SITE PLAN
NOT TO SCALE



PROFILE VIEW
NOT TO SCALE

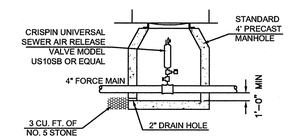


CONTROL PANEL
NOT TO SCALE

LIFT STATION DETAILS

NOT TO SCALE

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CAYCE'S DUPLEX SEWAGE PUMPING STATIONS AND PIPING SPECIFICATIONS (SECTION VI). SEE SPECIFICATIONS FOR MORE DETAILS.



SANITARY SEWER AIR RELEASE / VACUUM VALVE STRUCTURE

NOT TO SCALE

NOTES:
1. PROVIDE SINGLE BODY, CAST IRON, FLOAT PERATED COMBINATION AIR AND VACUUM VALVE.
2. VALVE SHALL BE SUITABLE FOR SEWAGE SERVICE AT A WORKING PRESSURE OF 150 PSI, AND CAPABLE OF EXHAUSTING LARGE AMOUNTS OF AIR DURING FILLING, EXHAUSTING SMALL AMOUNTS OF ACCUMULATED AIR DURING OPERATION, AND ADMITTING LARGE AMOUNTS OF AIR UPON IMPENDING VACUUM DURING DRAINING.
3. PROVIDE A VALVE WITH 2" INLET AND 1" OUTLET, HAVING A $\frac{1}{8}$" ORIFICE.
4. VALVE SHALL BE PROVIDED WITH FLUSHING ATTACHMENTS CONSISTING OF AN INLET ISOLATING VALVE, BRONZE BLOWOFF AND FLUSHING VALVE, HAVING A MINIMUM OF 5' OF RUBBER HOSE WITH QUICK DISCONNECT.
5. PROVIDE CRISPIN UNIVERSAL SEWER AIR RELEASE VALVE MODEL US10SB OR EQUAL.

COX AND DINKINS
ENGINEERS – SURVEYORS
COX AND DINKINS, INC.
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COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24748 STEVEN L. PRUITT III

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA COX AND DINKINS, INC. No. C00294 CERTIFICATE OF AUTHORIZATION

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS		
No.	DATE	DESCRIPTION

DEVELOPER:
MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072

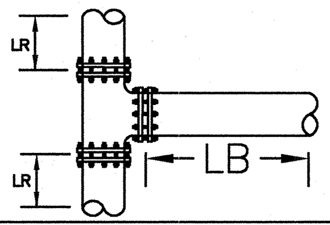
803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA

SANITARY SEWER PROFILES & DETAILS

TMS	008098-01-023
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C16
DATE 08/27/2014	

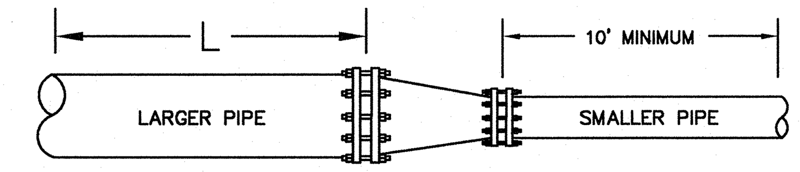
G:\Proj\1779 Lex. Co. Spec Bldg\DRAWINGS\1779 COVER & DETAILS.dwg, Plotted By: JDH, Plotted: Aug 27, 2014 – 10:52am



RUN DIAMETER	BRANCH DIAMETER													
	4 "		6 "		8 "		10 "		12 "		16 "		24 "	
	LR	LB	LR	LB	LR	LB	LR	LB	LR	LB	LR	LB	LR	LB
4 "	10 '	10 '	10 '	N/A	10 '	N/A	10 '	N/A	10 '	N/A	10 '	N/A	10 '	N/A
6 "	10 '	10 '	10 '	18 '	10 '	N/A	10 '	N/A	10 '	N/A	10 '	N/A	10 '	N/A
8 "	10 '	10 '	10 '	10 '	10 '	35 '	10 '	N/A	10 '	N/A	10 '	N/A	10 '	N/A
10 "	10 '	10 '	10 '	10 '	10 '	24 '	10 '	48 '	10 '	N/A	10 '	N/A	10 '	N/A
12 "	10 '	10 '	10 '	10 '	10 '	14 '	10 '	40 '	10 '	63 '	10 '	N/A	10 '	N/A
16 "	10 '	10 '	10 '	10 '	10 '	10 '	10 '	23 '	10 '	49 '	10 '	92 '	10 '	N/A
24 "	10 '	10 '	10 '	10 '	10 '	10 '	10 '	10 '	10 '	16 '	10 '	18 '	10 '	144 '

NOTES:
- ALL TEES TO HAVE RESTRAINING FLANGES
- BELL JOINTS TO BE RESTRAINED BY RESTRAINING GASKETS (AMERICAN FAST GRIP, GRIFFIN FIELD LOK 350, OR US PIPE FIELD LOK 350) OR BELL RESTRAINT COUPLINGS (EBAA IRON 1500-00SS4, FORD 1390-X, ROMAC 611 OR SMITH-BLAIR 165)
- LENGTHS SHOWN WERE CALCULATED FOR PVC PIPE, 3' DEEP IN SILTY SANDY SOILS - D.I.P., DEEPER CUTS AND/OR MORE COHESIVE SOIL WILL LESSEN THESE LENGTHS
- FOR LR'S OTHER THAN 10', THE LB'S MUST BE CALCULATED

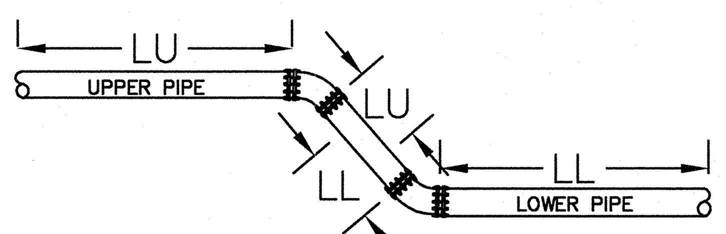
RESTRAINED JOINT PIPE CHART - TEES



LARGER PIPE DIAMETER	SMALLER PIPE DIAMETER						
	4 "	6 "	8 "	10 "	12 "	16 "	24 "
	LENGTHS						
6 "	28 '	N/A	N/A	N/A	N/A	N/A	N/A
8 "	52 '	30 '	N/A	N/A	N/A	N/A	N/A
10 "	70 '	53 '	29 '	N/A	N/A	N/A	N/A
12 "	88 '	74 '	54 '	50 '	N/A	N/A	N/A
16 "	121 '	110 '	95 '	92 '	56 '	N/A	N/A
24 "	178 '	172 '	162 '	160 '	136 '	101 '	N/A

NOTES:
- ALL REDUCERS TO HAVE RESTRAINING FLANGES
- BELL JOINTS TO BE RESTRAINED BY RESTRAINING GASKETS (AMERICAN FAST GRIP, GRIFFIN FIELD LOK 350, OR US PIPE FIELD LOK 350) OR BELL RESTRAINT COUPLINGS (EBAA IRON 1500-00SS4, FORD 1390-X, ROMAC 611 OR SMITH-BLAIR 165)
- LENGTHS SHOWN WERE CALCULATED FOR PVC PIPE, 3' DEEP IN SILTY SANDY SOILS - D.I.P., DEEPER CUTS AND/OR MORE COHESIVE SOIL WILL LESSEN THESE LENGTHS

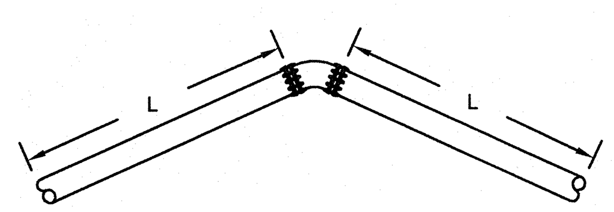
RESTRAINED JOINT PIPE CHART - REDUCERS



PIPE DIAMETER	LU FOR 11-1/4 BEND	LL FOR 11-1/4 BEND	LU FOR 22-1/2 BEND	LL FOR 22-1/2 BEND	LU FOR 45 BEND	LL FOR 45 BEND
4 "	10 '	10 '	10 '	10 '	16 '	10 '
6 "	10 '	10 '	11 '	10 '	23 '	10 '
8 "	10 '	10 '	14 '	10 '	30 '	13 '
10 "	10 '	10 '	17 '	10 '	36 '	16 '
12 "	10 '	10 '	20 '	10 '	42 '	19 '
16 "	13 '	10 '	26 '	11 '	54 '	23 '
24 "	18 '	10 '	37 '	16 '	77 '	32 '

NOTES:
- ALL BENDS TO HAVE RESTRAINING FLANGES
- BELL JOINTS TO BE RESTRAINED BY RESTRAINING GASKETS (AMERICAN FAST GRIP, GRIFFIN FIELD LOK 350, OR US PIPE FIELD LOK 350) OR BELL RESTRAINT COUPLINGS (EBAA IRON 1500-00SS4, FORD 1390-X, ROMAC 611 OR SMITH-BLAIR 165)
- LENGTHS SHOWN WERE CALCULATED FOR PVC PIPE, 3' DEEP IN SILTY SANDY SOILS - D.I.P., DEEPER CUTS AND/OR MORE COHESIVE SOIL WILL LESSEN THESE LENGTHS
- 90 BENDS SHALL NOT BE USED AS OFFSET UNLESS PRIOR APPROVAL IS OBTAINED FROM SCPW

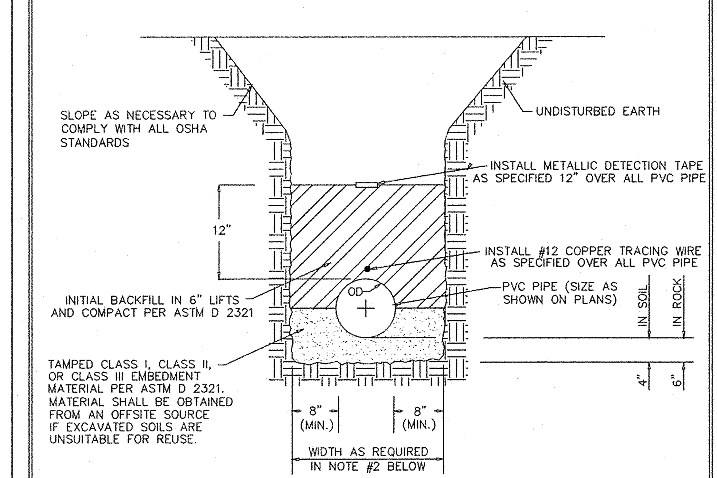
RESTRAINED JOINT PIPE CHART - VERTICAL BENDS



PIPE DIAMETER	L FOR 11-1/4 BEND	L FOR 22-1/2 BEND	L FOR 45 BEND	L FOR 90 BEND
4 "	10 '	10 '	10 '	18 '
6 "	10 '	10 '	10 '	25 '
8 "	10 '	10 '	13 '	32 '
10 "	10 '	10 '	16 '	38 '
12 "	10 '	10 '	19 '	45 '
16 "	10 '	11 '	23 '	57 '
24 "	10 '	16 '	32 '	78 '

NOTES:
- ALL BENDS TO HAVE RESTRAINING FLANGES
- BELL JOINTS TO BE RESTRAINED BY RESTRAINING GASKETS (AMERICAN FAST GRIP, GRIFFIN FIELD LOK 350, OR US PIPE FIELD LOK 350) OR BELL RESTRAINT COUPLINGS (EBAA IRON 1500-00SS4, FORD 1390-X, ROMAC 611 OR SMITH-BLAIR 165)
- LENGTHS SHOWN WERE CALCULATED FOR PVC PIPE, 3' DEEP IN SILTY SANDY SOILS - D.I.P., DEEPER CUTS AND/OR MORE COHESIVE SOIL WILL LESSEN THESE LENGTHS

RESTRAINED JOINT PIPE CHART - HORIZONTAL BENDS



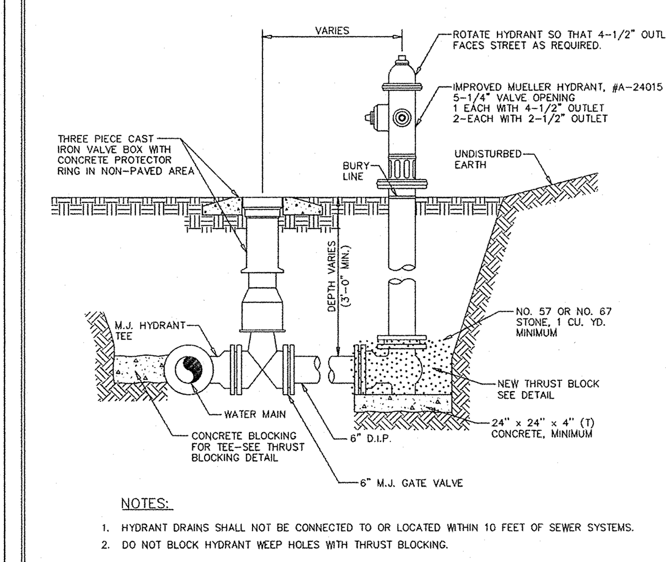
PVC WATERLINE AND WASTEWATER FORCEMAIN TRENCH DETAIL

NOT TO SCALE

NOTES:

1. WHERE THE TRENCH WILL BE WITHIN THREE FEET OF THE EDGE OF THE EXISTING PAVEMENT, FLOWABLE FILL MAY BE REQUIRED FOR BACKFILL MATERIAL. CONSULT ENCROACHMENT PERMITS FOR SPECIFIC REQUIREMENTS.
2. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16 IN. OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 IN.
3. NO BOULDERS OR STONES WILL BE USED IN INTIAL BACKFILL OR 2 FEET ABOVE TOP OF PIPE.
4. PVC PIPE NOT ALLOWED WITH LESS THAN 3'-0" COVER.

STANDARD DETAIL
CITY OF CAYCE
PVC WATERLINE AND WASTEWATER FORCEMAIN TRENCH DETAIL
APPROVED: # CAYCE-23B



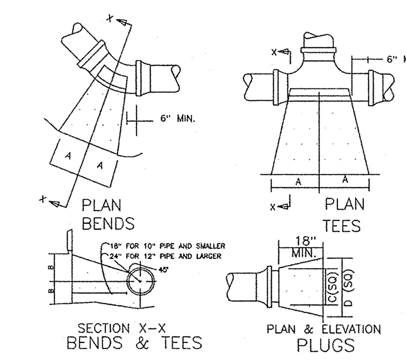
NOTES:

1. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SEWER SYSTEMS.
2. DO NOT BLOCK HYDRANT WEEP HOLES WITH THRUST BLOCKING.

STANDARD HYDRANT DETAIL

NOT TO SCALE

STANDARD DETAIL
CITY OF CAYCE
HYDRANT DETAIL
APPROVED: # DWCAYCE-1



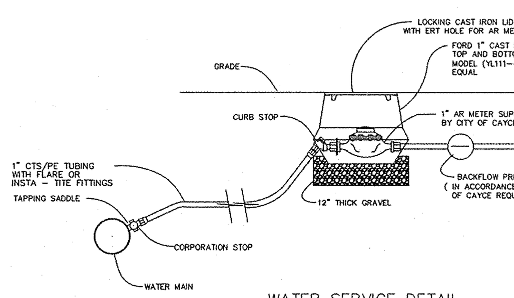
TYPE	SIZE	1/4 BEND		1/8 BEND		1/16 BEND		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
TYPE I 4000 PSF SOIL	6"	8"	10"	6"	8"	3"	8"	8"	8"	10"	15"
	8"	12"	12"	8"	10"	5"	9"	9"	12"	12"	20"
	10"	16"	14"	10"	12"	6"	10"	11"	14"	14"	25"
	12"	19"	16"	12"	14"	8"	11"	14"	16"	16"	30"
	14"	23"	18"	14"	16"	10"	12"	16"	18"	18"	34"
	16"	16"	20"	16"	18"	11"	13"	18"	20"	20"	38"
TYPE II 2000 PSF SOIL	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
	16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

THRUST BLOCK DETAIL

N.T.S

NOTE: ALL PIPE SIZES LESS THAN 6" DIA. USE 6" DIMENSIONS

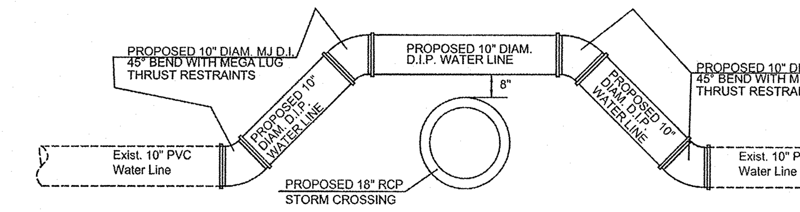
STANDARD DETAIL
CITY OF CAYCE
THRUST BLOCK DETAIL
APPROVED: # DWCAYCE-2



WATER SERVICE DETAIL

NOT TO SCALE

STANDARD DETAIL
CITY OF CAYCE
WATER SERVICE DETAIL
APPROVED: # DWCAYCE-5



NOTES

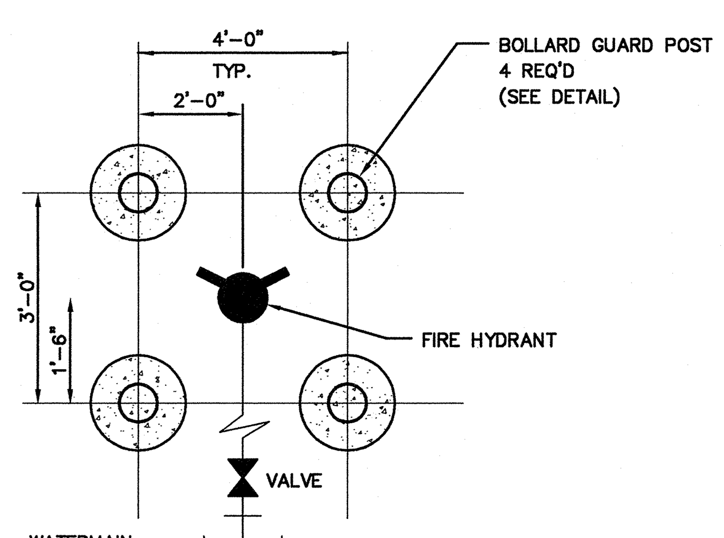
(1) ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON BENDS.
(2) ALL FITTINGS SHALL BE RESTRAINED WITH MEGA LUG THRUST RESTRAINTS.
3) NEW 10" PIPE SHALL BE CLASS 350 DUCTILE IRON.
4) ALL WORK & MATERIALS SHALL MEET CITY OF CAYCE SPECIFICATIONS.
5) CITY ENGINEER SHALL BE NOTIFIED PRIOR TO STARTING THIS CONSTRUCTION.

WATERLINE RELOCATION SCHEMATIC

NTS

WATER DETAILS

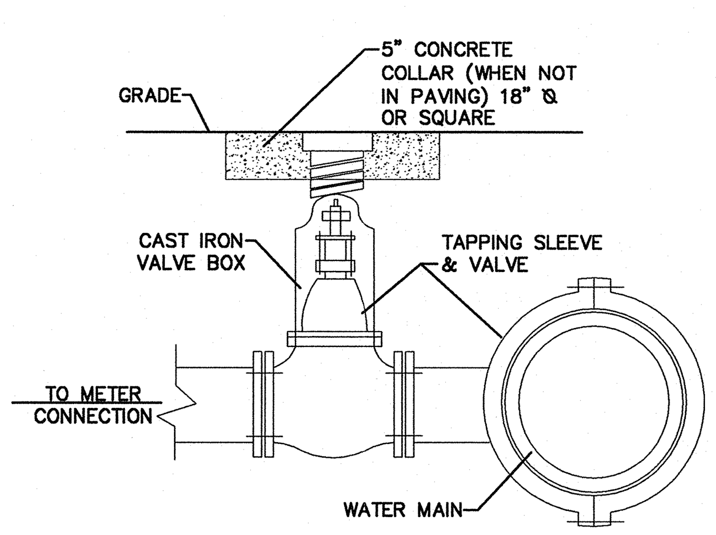
NOT TO SCALE



FIRE HYDRANT BOLLARD PROTECTION DETAIL

NTS

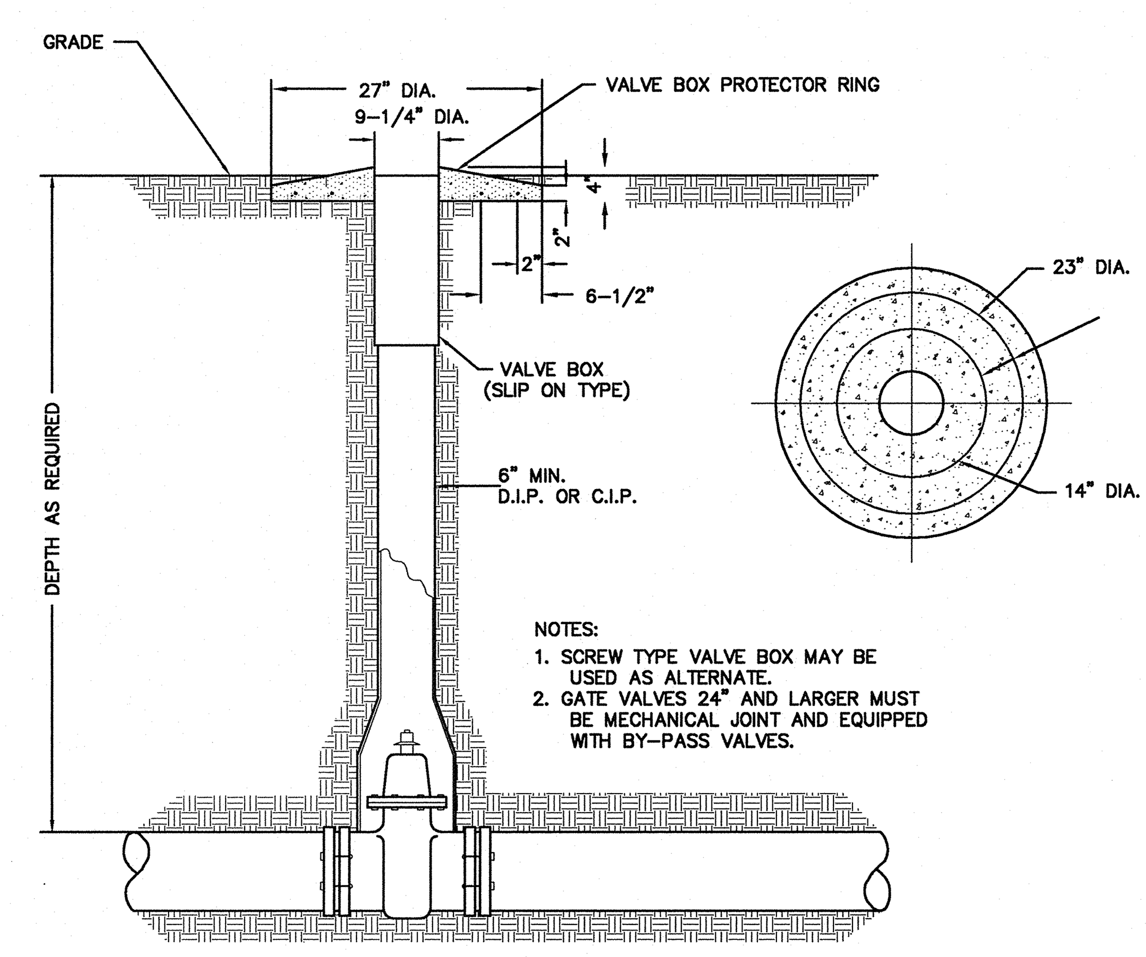
TAPPING SLEEVE AND VALVE, OVER 2" ON PVC PIPE; OVER 3" ON OTHER MATERIALS



NOTE: FOR USE ON 2" PVC AND OVER PIPE, AND ON 3" AND OVER FOR PIPES OF OTHER MATERIALS.

TAPPING SLEEVE AND VALVE DETAIL

NTS



NOTES:
1. SCREW TYPE VALVE BOX MAY BE USED AS ALTERNATE.
2. GATE VALVES 24" AND LARGER MUST BE MECHANICAL JOINT AND EQUIPPED WITH BY-PASS VALVES.

GATE VALVE BOX DETAIL

NTS

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24748 JAMES L. PRUITT, III 8/27/14

REGISTERED PROFESSIONAL ENGINEER NO. 24748

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION COX AND DINKINS, INC. No. C00294

CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS		
No.	DATE	DESCRIPTION

DEVELOPER:
MR. CHUCK WHIPPLE, SCCED
LEXINGTON COUNTY
212 SOUTH LAKE DR., STE 502
LEXINGTON, SC 29072
803-785-8147
Fax: 803-785-8101

PROJECT:
LEXINGTON COUNTY SPECULATIVE BUILDING
LEXINGTON COUNTY, SOUTH CAROLINA

WATER DISTRIBUTION DETAILS

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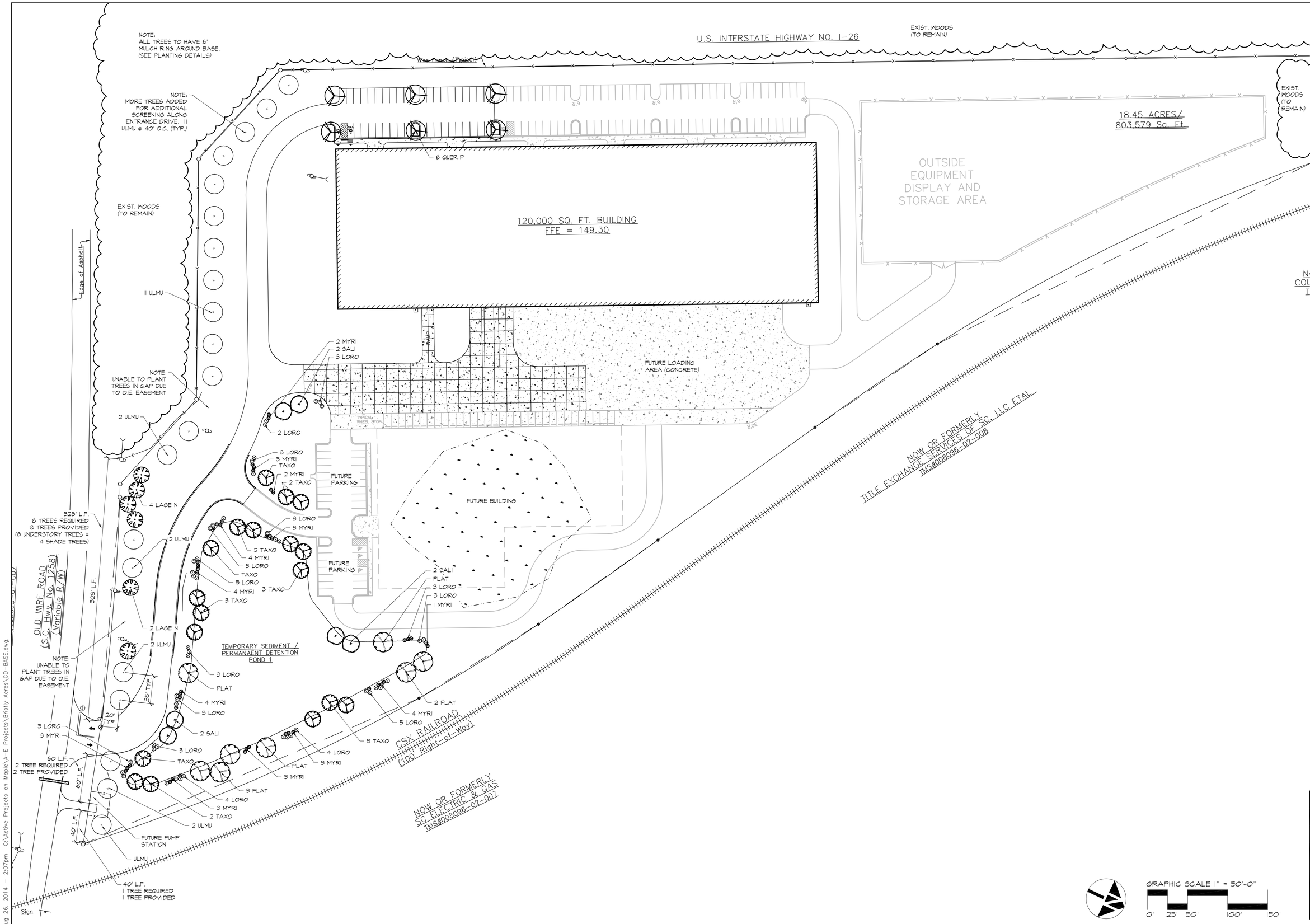
TMS 008098-01-023	
BOOK K72-1	SF NO. 307-1
PROJECT NO. 1779	SHEET NO. C17
DATE 08/27/2014	



Revisions	
Date	

STATE OF SOUTH CAROLINA
REGISTERED LANDSCAPE ARCHITECT
MORGAN GRIMBALL
1232

BRISTLY ACRES
PLANTING PLAN

GRIMBALL & ASSOCIATES COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS
600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9525

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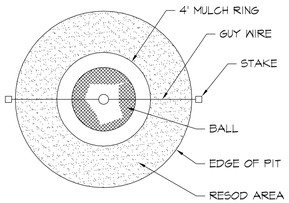
Drawing No.	L-1
Sheet No.	1 OF 4

Aug 26, 2014 - 2:07pm G:\Active Projects on Maple\A-E Projects\Bristly Acres\CD-BASE.dwg

PLANT LIST

ABBR.	BOTANICAL NAME	COMMON NAME	MINIMUM CALIPER	SPREAD	HEIGHT	BALL DIA.	NO. CANES	COMMENTS	QTY.
LAGE N	LAGERSTROEMIA 'NATCHEZ'	'NATCHEZ' CRAPEMYRTLE	2 "	6'	8'-10'	24"	3 MIN	MATCHING, SPECIMEN	6
PLAT	PLATANUS OCCIDENTALIS	SYCAMORE	3"	6'	12'-14'		1	MATCHING, SPECIMEN	8
QUER P	QUERCUS PHELLOS	WILLOW OAK	3"	6'	12'-14'	32"	1	MATCHING, SPECIMEN	6
SALI	SALI X BABYLONICA	WEEPING WILLOW	3"		12'-14'	B&B	1	FULL TO THE GROUND	6
TAXO	TAXODIUM DISTICHUM	BALD CYPRESS	3"	6"	10'-12'	32"	1	MATCHING, SPECIMEN	18
ULMU	ULMUS PARVIFOLIA 'ALLEE'	'ALLEE' CHINESE ELM	3"	6'	12'-14'	32"	1	MATCHING, SPECIMEN	20
LORO	LOROPETALUM CHINENSE 'RUBY'	'RUBY' LOROPETALUM		24"	24"	3 GAL.	3-5	PLANT 5' O.C.	47
MYRI	MYRICA CERIFERA	WAX-MYRTLE		30"	36"	7 GAL.		PLANT 6' O.C.	42

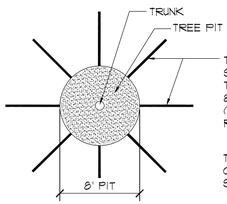


PLAN DETAIL

NO SCALE

NOTES:

1. TEST FOR PERCOLATION PRIOR TO PLANTING.
2. WATER AFTER PLANTING.
3. DO NOT WRAP TREES
4. REMOVE BURLAP/STRAPPING AND WIRE FROM TOP 1/3 OF ROOT BALL.
5. DIG TREE PIT WITH BACKHOE OR SIMILAR EQUIPMENT.
6. NO TREE IS TO BE PLANTED LONER THAN THE ELEVATION THAT THE TREE WAS GROWN AT THE NURSERY. REMOVE BUILT UP SOIL AS NEGESSARY.

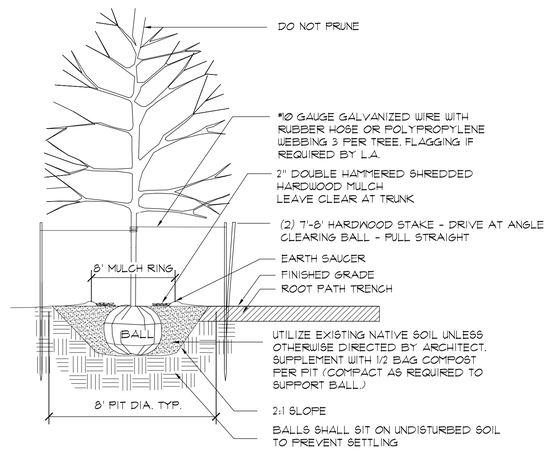


TRENCH/TILL SOIL OUTWARD FROM TREE PIT SPACE TRENCH PATHS AT ±36" O.C. TRENCH OR TILL TO A DEPTH AND WIDTH OF 8" AND TO A DISTANCE OF 6' FROM TRUNK (TYP.) LOOSEN SOIL AND BACKFILL, AVOID RE-COMPACTING AREA.

TRENCH PATHS MAY VARY WITH CONFIGURATION OF PLANTING AREA BUT SHOULD PROVIDE 36" O.C. SPACING

PLAN DETAIL: ROOT PATH TRENCHES

NO SCALE



A / L-2

TREE PLANTING AND STAKING

SECTION

NOT TO SCALE

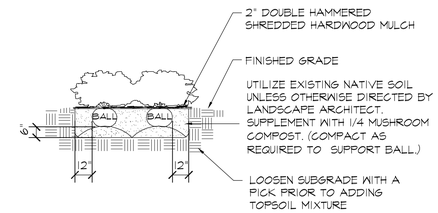
GENERAL NOTES

1. EXISTING ECOLOGY AND AESTHETICS WILL OFTEN CAUSE ADJUSTMENT OF THESE PLANS TO FIT THE SITE. STAKE-OUT BY THE CONTRACTOR AND ADJUSTMENT BY THE LANDSCAPE ARCHITECT IS ABSOLUTELY NECESSARY.

2. LOCATIONS OF THOSE UTILITIES SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM THE FAILURE TO DO SO. CONTACT PALMETTO UTILITY PROTECTION SERVICE AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.

3. CONTRACTOR SHALL INFORM LANDSCAPE ARCHITECT IF PROPOSED DESIGN IS IN CONFLICT WITH EXISTING OR PROPOSED UTILITIES. CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ADJUST PROPOSED DESIGN OR UTILITIES AS NECESSARY TO RESOLVE CONFLICTS.

4. BASE PLAN DATA DERIVED FROM SITE SURVEY. PROVIDED BY COX & DINKINS DATED 7/14/14.



NOTES:
1. TEST FOR PERCOLATION PRIOR TO PLANTING.
2. REMOVE PAPER, PLASTIC OR METAL CONTAINER THAT MAY BE AROUND ROOTS
3. WATER AFTER PLANTING
4. DO BED PREPARATION ON ALL SHRUB & GROUNDCOVER AREAS

B / L-2

SHRUB PLANTING

NOT TO SCALE

PLANTING NOTES

1. PLANTS LABELED NIC ARE NOT IN CONTRACT AND ARE NOT A PART OF THIS PHASE OF WORK.

2. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOWS OR EXCEEDS A CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCKS. SEE THE PLANT LIST FOR MORE RESTRICTIVE REQUIREMENTS.

3. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.

4. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEARS' VERTICAL GROWTH (TOP CANDLE).

5. THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT AREA. THE CONTRACTOR SHOULD VERIFY THE EXACT LOCATION OF ALL UTILITY LINES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS.

6. THE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO OPENING ANY PLANTING PITS.

7. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL DO PERCOLATION TEST AS DETAILED ON DETAIL H/L-102. THE OWNER OR LANDSCAPE ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTING. IF THE SOIL AT GIVEN AREA DOES NOT DRAIN PROPERLY, A PVC DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTINGS RELOCATED.

8. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PANS, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE, THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.

9. PLANTING PITS FOR TREE AND SHRUBS SHALL BE PREPARED AS PER DETAILS.

10. DOUBLE HAMMERED SHREDDED HARDWOOD MULCH SHALL BE APPLIED TO ALL SHRUB BEDS BY THE CONTRACTOR. BEDS SHALL BE TREATED WITH PREEMERGENT HERBICIDE BY THE CONTRACTOR BEFORE MULCH IS APPLIED. SHREDDED HARDWOOD MULCH SHALL BE TWO INCHES DEEP. A SAMPLE OF SHREDDED HARDWOOD MULCH SHALL BE PRESENTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.

11. ALL TREES ARE TO BE STAKED IMMEDIATELY AFTER PLANTING AS DETAILED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF STAKING HOSES, ETC. AT THE END OF THE ONE YEAR GUARANTEE PERIOD.

12. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PROJECT AND SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS AND OTHER DEBRIS RESULTING FROM WORK OF THE PROJECT.

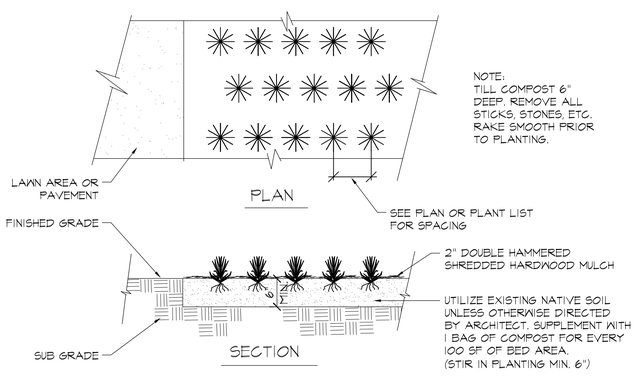
13. PLANTS SHALL BE GUARANTEED FOR THE DURATION OF ONE (1) FULL YEAR AFTER THE FINAL ACCEPTANCE OF THE PLANTING BY THE OWNER AND SHALL BE ALIVE AND IN SATISFACTORY GROWTH AT THE END OF THE GUARANTEE PERIOD. ANY PLANT NOT IN A HEALTHY AND VIGOROUS STATE AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED AT NO COST TO THE OWNER, PLANTS SEVERELY DAMAGED BY VANDALS ARE NOT SUBJECT TO REPLACEMENT BY THE CONTRACTOR DURING THE ONE YEAR GUARANTEE PERIOD.

14. REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENTS ARE COMPLETE, AND SHALL BE SUBJECT TO A ONE (1) YEAR GUARANTEE FROM THE DATE OF SATISFACTORY REPLACEMENT.

15. SHOULD THE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER, AFTER PROPER NOTIFICATION TO THE CONTRACTOR MAY UTILIZE THE FUNDS OF THE RETAINAGE TO HAVE THE REPLACEMENTS MADE IN ACCORD WITH THE SPECIFICATIONS BY ANOTHER CONTRACTOR.

16. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT OPEN OR UNATTENDED OVERNIGHT.

17. PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR REFERENCE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNTS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OF DISCREPANCIES FROM THE LANDSCAPE ARCHITECT IS NOT POSSIBLE, THEN QUANTITIES SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE.



NOTE:
TILL COMPOST 6" DEEP. REMOVE ALL STICKS, STONES, ETC. RAKE SMOOTH PRIOR TO PLANTING.

C / L-2

TYPICAL GROUNDCOVER PLANTING

NOT TO SCALE

INSTRUCTIONS FOR PERFORMING A PERCOLATION TEST

1. WITH A SHOVEL OR POSTHOLE DIGGER, DIG HOLE 18" TO 24" DEEP. HOLE DIAMETER SHOULD BE A MINIMUM OF 4 INCHES. THE DIAMETER OF THE HOLE SHOULD BE UNIFORM FROM TOP TO BOTTOM WITH THE BOTTOM BEING FLAT.

2. FILL HOLE WITH WATER TO THE TOP AND LET STAND FOR AT LEAST AN HOUR TO PRE-WET THE SOIL.

3. REFILL HOLE TO WITHIN A COUPLE INCHES OF THE TOP. DON'T OVERFLOW THE HOLE.

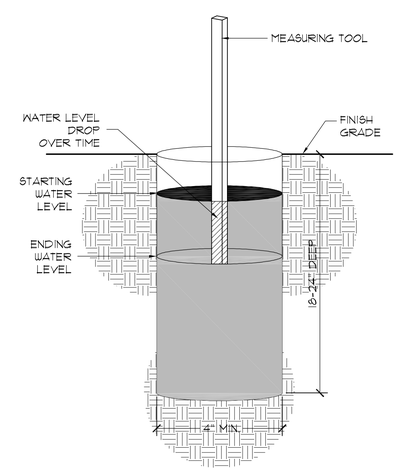
4. TO AID IN MEASUREMENT, PLACE A STICK ACROSS THE TOP OF THE HOLE AND USE A RULER OR MEASURING TAPE TO MARK PERIODIC DROPS IN WATER LEVEL.

5. ALLOW THE HOLE TO DRAIN FOR AT LEAST ONE HOUR. A LONGER PERIOD OF TIME (2 TO 3 HOURS) WILL GIVE A MORE ACCURATE READING OF AVERAGE PERCOLATION RATES.

6. DETERMINE AVERAGE DROP IN WATER LEVEL PER HOUR AND REFER TO THE TABLE BELOW TO INTERPRET RESULTS.

HOW TO INTERPRET RESULTS	
IF WATER LEVEL IN HOLE DROPS...	SITE IS...
LESS THAN ONE-HALF INCH PER HOUR	POORLY DRAINED AND SUITED TO WET -SITE SPECIES
ONE HALF-INCH TO ONE INCH PER HOUR	MODERATELY WELL DRAINED AND ACCEPTABLE FOR MANY SPECIES INCLUDING WET SITE SPECIES
MORE THAN ONE INCH PER HOUR	WELL DRAINED AND SUITABLE FOR ALL SPECIES INCLUDING SENSITIVE SPECIES

PERCOLATION TEST HOLE



D / L-2

PERCOLATION TEST

ISOMETRIC

NOT TO SCALE

Revisions	Date

BRISTLY ACRES
PLANTING DETAILS

GRIMBALL & ASSOCIATES COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS
600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9525

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Sheet No.	2 OF 4

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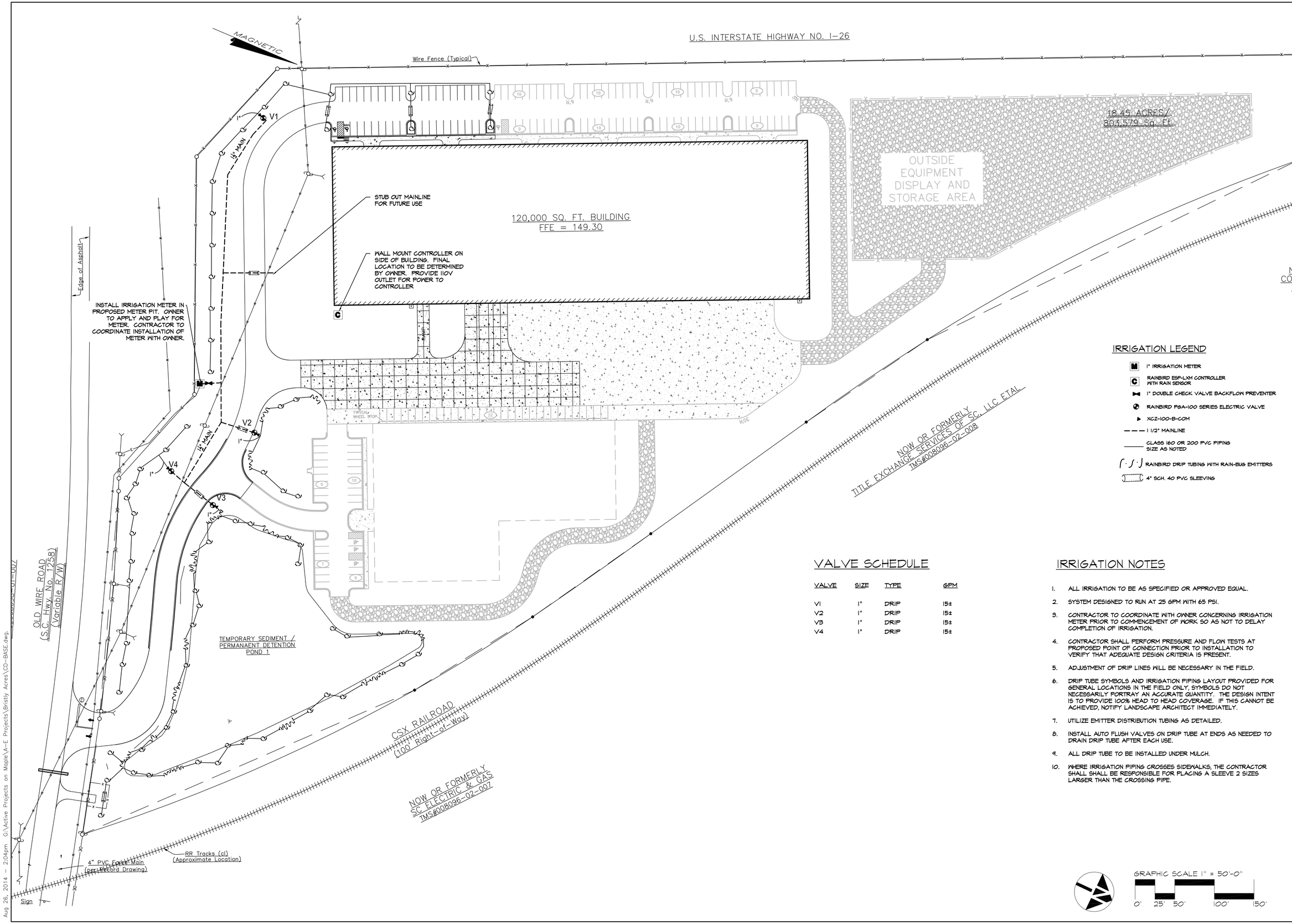

IRRIGATION LEGEND

- M — 1" IRRIGATION METER
- C — RAINBIRD ESP-LXM CONTROLLER WITH RAIN SENSOR
- 1" DOUBLE CHECK VALVE BACKFLOW PREVENTER
- RAINBIRD PGA-100 SERIES ELECTRIC VALVE
- XCZ-100-B-COM
- 1 1/2" MAINLINE
- CLASS 160 OR 200 PVC PIPING SIZE AS NOTED
- RAINBIRD DRIP TUBING WITH RAIN-BUG EMITTERS
- 4" SCH. 40 PVC SLEEVING

VALVE SCHEDULE

VALVE	SIZE	TYPE	GPM
V1	1"	DRIP	15±
V2	1"	DRIP	15±
V3	1"	DRIP	15±
V4	1"	DRIP	15±

IRRIGATION NOTES

1. ALL IRRIGATION TO BE AS SPECIFIED OR APPROVED EQUAL.
2. SYSTEM DESIGNED TO RUN AT 25 GPM WITH 65 PSI.
3. CONTRACTOR TO COORDINATE WITH OWNER CONCERNING IRRIGATION METER PRIOR TO COMMENCEMENT OF WORK SO AS NOT TO DELAY COMPLETION OF IRRIGATION.
4. CONTRACTOR SHALL PERFORM PRESSURE AND FLOW TESTS AT PROPOSED POINT OF CONNECTION PRIOR TO INSTALLATION TO VERIFY THAT ADEQUATE DESIGN CRITERIA IS PRESENT.
5. ADJUSTMENT OF DRIP LINES WILL BE NECESSARY IN THE FIELD.
6. DRIP TUBE SYMBOLS AND IRRIGATION PIPING LAYOUT PROVIDED FOR GENERAL LOCATIONS IN THE FIELD ONLY, SYMBOLS DO NOT NECESSARILY PORTRAY AN ACCURATE QUANTITY. THE DESIGN INTENT IS TO PROVIDE 100% HEAD TO HEAD COVERAGE. IF THIS CANNOT BE ACHIEVED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.
7. UTILIZE EMITTER DISTRIBUTION TUBING AS DETAILED.
8. INSTALL AUTO FLUSH VALVES ON DRIP TUBE AT ENDS AS NEEDED TO DRAIN DRIP TUBE AFTER EACH USE.
9. ALL DRIP TUBE TO BE INSTALLED UNDER MULCH.
10. WHERE IRRIGATION PIPING CROSSES SIDEWALKS, THE CONTRACTOR SHALL SHALL BE RESPONSIBLE FOR PLACING A SLEEVE 2 SIZES LARGER THAN THE CROSSING PIPE.

GRAPHIC SCALE 1" = 50'-0"

0' 25' 50' 100' 150'

Revisions	
Date	

STATE OF SOUTH CAROLINA
LANDSCAPE ARCHITECT
MORGAN GRIMBALL
1032

BRISTLY ACRES
IRRIGATION PLAN

600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9525

GRIMBALL & ASSOCIATES COTTERILL

LANDSCAPE ARCHITECTS & LAND PLANNERS

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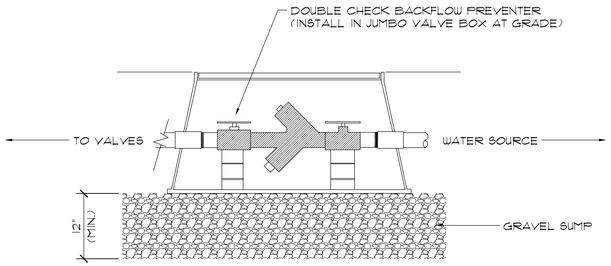
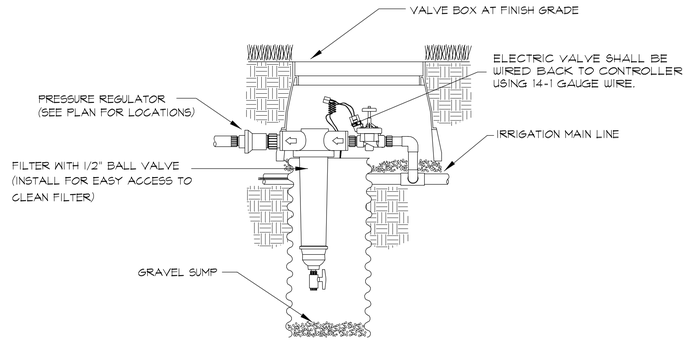


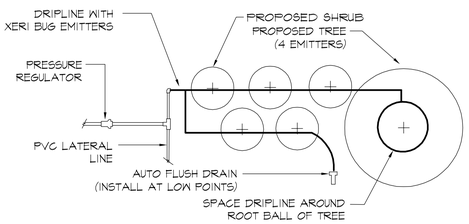
A / I-2 **BACKFLOW PREVENTER**

SECTION — NOT TO SCALE



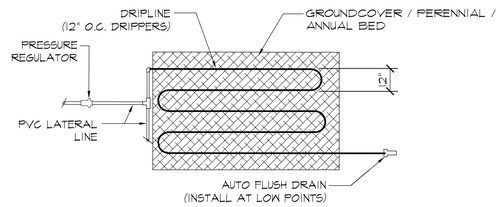
B / I-2 **ELECTRIC VALVE-DRIP ZONE**

SECTION — NOT TO SCALE



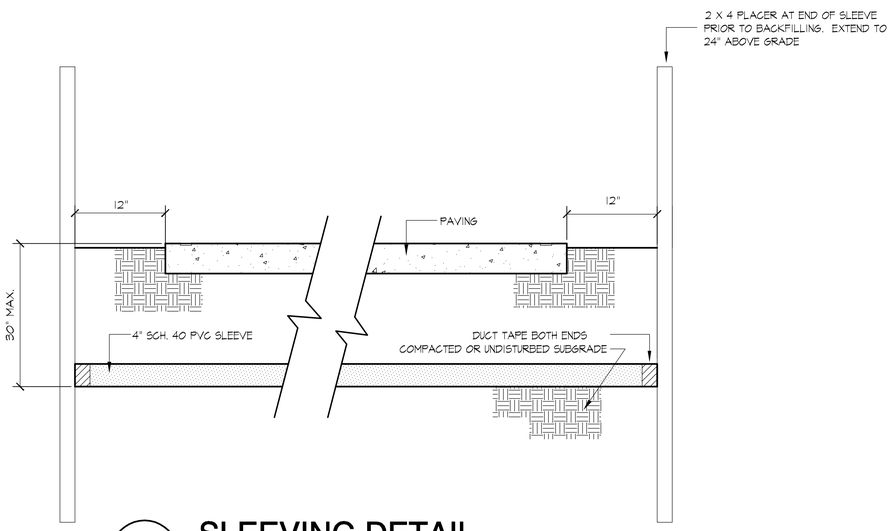
C / I-2 **DRIPLINE IN SHRUBS**

PLAN — NOT TO SCALE



D / I-2 **DRIPLINE IN GROUNDCOVER**

PLAN — NOT TO SCALE



E / I-2 **SLEEVING DETAIL**

SECTION — NOT TO SCALE

IRRIGATION NOTES

1. ALL PLASTIC PIPE FITTINGS TO BE MINIMUM SCHEDULE 40 PVC.

2. ALL MAIN LINES TO BE SCHEDULE 40 PVC OR SCHEDULE 200 PVC.

3. ALL LATERAL LINES TO BE SCHEDULE 200 PVC OR SCHEDULE 160 PVC.

4. COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF SCHEDULE 40 PVC PIPE UNDER PAVED SURFACES AS NOTED ON THE DRAWINGS TO BE UTILIZED FOR IRRIGATION SLEEVING. THE LOCATION OF SLEEVING IS MARKED ON THE IRRIGATION PLAN. DEVIATIONS MAY OCCUR DURING CONSTRUCTION.

5. TRENCHES FOR PVC PIPE MAINLINES SHALL BE EXCAVATED TO SUFFICIENT DEPTH OF 18" MINIMUM AND AN SUFFICIENT WIDTH TO PERMIT PROPER HANDLING AND INSTALLATION OF PIPE AND FITTINGS. TRENCHES FOR PVC PIPE LATERAL SPRINKLER LINES SHALL BE EXCAVATED TO SUFFICIENT DEPTH OF 12" MINIMUM AND AN SUFFICIENT WIDTH TO PERMIT PROPER HANDLING AND INSTALLATION OF PIPE AND FITTINGS.

6. ALL CONTROL VALVES SHALL BE INSTALLED IN A VALVE BOX IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

7. ALL WIRING TO BE USED FOR CONNECTING THE AUTOMATIC REMOTE CONTROL VALVE TO THE AUTOMATIC CONTROLLERS SHALL BE TYPE "UF", 14-1, STRANDED OR SOLID COPPER, SINGLE CONDUCTION WIRE WITH PVC INSULATION AND BEAR UL APPROVAL FOR DIRECT UNDERGROUND BURIAL FEEDER CABLE. WIRE CONNECTIONS TO REMOTE CONTROL ELECTRIC VALVES AND SPLICES OF WIRE IN THE FIELD SHALL BE PEN-TITE WIRE CONNECTORS OR APPROVED EQUAL AND SEALING CEMENT.

8. THE IRRIGATION CONTRACTOR SHALL CONNECT ALL VALVE WIRING TO A SPECIFIED CONTROLLER LOCATED AS NOTED ON THIS PLAN.

9. ALL CONTROL VALVE CABLES SHALL BE INSTALLED BY DIRECT BURIAL AT A MINIMUM DEPTH OF 12". WHERE PRACTICAL, THE WIRE SHALL BE INSTALLED IN THE SAME TRENCH AS THE MAINLINE PIPE.

10. AFTER COMPLETION OF THE PIPING INSTALLATION, THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" DRAWING SHOWING ALL SPRINKLER HEADS, VALVES, DRAINS AND PIPE LINES TO SCALE WITH DIMENSIONS WHERE REQUIRED. INSTRUCTION SHEETS AND PARTS LISTS COVERING ALL OPERATING EQUIPMENT WILL BE BOUND INTO A FOLDER AND FURNISHED TO THE OWNER IN DUPLICATE.

11. FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK PERFORMED UNDER THIS CONTRACT, THE CONTRACTOR SHALL PROMPTLY FURNISH, WITHOUT COST TO THE OWNER, ANY AND ALL PARTS AND LABOR WHICH PROVE DEFECTIVE IN MATERIAL OR WORKMANSHIP.

12. DURING THE LAST MONTH OF THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT AND CONTRACTOR SHALL INSPECT THE INSTALLATION TO DETERMINE THE CONDITION OF THE COMPLETE SYSTEM. A LIST OF DEFECTIVE MATERIALS OR INSTALLATIONS TO BE REPLACED SHALL BE MADE BY THE CONTRACTOR WITHIN THIRTY DAYS OF RECEIVING WRITTEN NOTIFICATION. REPLACED MATERIALS AND INSTALLATION SHALL BE IN ACCORD WITH THESE SPECIFICATIONS, DRAWINGS AND OR SCHEDULES.

Revisions	Date

STATE OF SOUTH CAROLINA
REGISTERED LANDSCAPE ARCHITECT
MORGAN GRIMBALL
1337

BRISTLY ACRES
IRRIGATION DETAILS

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