

STREETSCAPE PLAN FOR DUKE STREET PHASE 2 CITY OF BEAUFORT BEAUFORT COUNTY, SOUTH CAROLINA



BJWSA NUMBER: -----

VICINITY MAP
1 INCH = 120 FT.

N.P.D.E.S. DISTURBED AREA = 1.90 Acres

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 1-888-721-7877
PALMETTO UTILITY PROTECTION SERVICE

APPROXIMATE LOCATION OF SITE:
LONGITUDE: 80°-40'-28"
LATITUDE: 32°-26'-09"

DEVELOPER NAME:
SCOTT DADSON
CITY OF BEAUFORT
1911 BOUNDARY STREET
BEAUFORT, SC 29902
(843)-525-7070

PROJECT DATA INFORMATION:
DUKE STREET PHASE 2
DISTRICT #: N/A
MAP #: N/A
PARCEL #: N/A
PROJECT ZONING: N/A
ZONING BOUNDARIES: N/A
FEMA FLOOD ZONE: C

PHONE #:	PERMIT #:
B.J.W.S.A. 843.987.9250	-----
D.H.E.C. 843.522.3345	-----
O.C.R.M. 843.744.5898	-----
S.C.D.O.T. 843.524.7255	-----
S.C.E.&G. 843.525.7712	-----
PAL. ELEC. 843.208.5512	-----

APPROVED FOR CONSTRUCTION

BY: _____ / /
DATE

Andrews & Burgess Inc.
Engineering & Surveying

2712 Bull Street, Ste A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

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INDEX OF DRAWINGS

SHEET #	DESCRIPTION
	TITLE
	LEGEND & NOTES
	INDEX SHEET
1	EXISTING SITE & DEMOLITION PLAN
2	EXISTING SITE & DEMOLITION PLAN
3	TREE PROTECTION & REMOVAL & SEDIMENT AND EROSION CONTROL PLAN
4	PAVING, GRADING AND DRAINAGE
5	PAVING, GRADING AND DRAINAGE
6	DUKE STREET PLAN/PROFILE
7	SITE DETAILS I
8	SITE DETAILS II
9	SITE DETAILS III
10	SITE DISTANCE
11	SITE DISTANCE
1 OF 2	
2 OF 2	
L1	LANDSCAPE PLAN
L2	IRRIGATION PLAN
	SCE&G CONDUIT AND LIGHTING PLAN
	HARGRAY CONDUIT PLAN

DRAWING RELEASED FOR:

<input type="checkbox"/> PLAN REVIEW	____/____/____
<input type="checkbox"/> PERMIT DRAWINGS	____/____/____
<input type="checkbox"/> CONSTRUCTION DRAWINGS	____/____/____
<input checked="" type="checkbox"/> BID SET	06 / 25 / 14
<input type="checkbox"/> RECORD DRAWINGS	____/____/____
<input type="checkbox"/> OTHER: _____	____/____/____

PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
1	REVISED PAVER DETAIL TO 8" OF #57 STONE	05/16/14	LS
2	BID ALTERNATE - CHURCH STREET	6/25/14	RL
3	-	-	-
4	-	-	-
5	-	-	-
6	-	-	-
7	-	-	-
8	-	-	-

RE-BID 6/25/14 - BID ALTERNATE - CHURCH STREET

TYPICAL LINE TYPES

	CONSTRUCTED SWALE
	ROAD CENTERLINE(PROP & EXIST)
	CABLE TV LINE
	FIBER OPTICS
	CONDUIT LINE
	CHAIN LINK FENCE
	SQUARE WOODEN FENCE
	SILT FENCE
	TREE PROTECTION FENCE
	EXISTING PVC FORCEMAIN
	PROPOSED 1" PVC (C900-DR25) FORCEMAIN
	PROPOSED 2" PVC (C900-DR25) FORCEMAIN
	PROPOSED 4" PVC (C900-DR25) FORCEMAIN
	PROPOSED 6" PVC (C900-DR25) FORCEMAIN
	PROPOSED 8" PVC (C900-DR25) FORCEMAIN
	OVERHEAD POWERLINE
	EXISTING SANITARY SEWER LINE
	PROPOSED 10" SANITARY SEWER LINE
	PROPOSED 12" SANITARY SEWER LINE
	PROPOSED 6" SANITARY SEWER LINE
	PROPOSED 8" SANITARY SEWER LINE
	FUTURE SANITARY SEWER LINE
	EXISTING GAS LINE
	4" DIP (DUCTILE IRON PIPE)
	6" DIP
	8" DIP
	10" DIP
	EXISTING PROPERTY LINE
	FUTURE PROPERTY LINE
	PROPOSED PROPERTY LINE
	EXISTING RIGHT OF WAY
	FUTURE RIGHT OF WAY
	PROPOSED RIGHT OF WAY
	EXISTING SETBACK
	FUTURE SETBACK
	TELEPHONE LINE
	UNDERGROUND POWER LINE
	3 UNDERGROUND TELEPHONE LINE
	UNDERGROUND TELEPHONE LINE
	PROPOSED 1" PE (SDR17) WATERLINE
	PROPOSED 10" PVC (C900-DR25-CL100) WATERLINE
	PROPOSED 12" PVC (C900-DR25-CL100) WATERLINE
	PROPOSED 2" PVC (SDR21-CL200) WATERLINE
	PROPOSED 30" PVC (C900-DR25-CL100) WATERLINE
	PROPOSED 4" PVC (C900-DR25-CL100) WATERLINE
	PROPOSED 6" PVC (C900-DR25-CL100) WATERLINE
	PROPOSED 8" PVC (C900-DR25-CL100) WATERLINE
	EXISTING WATERLINE
	EXISTING 10" PVC WATERLINE
	EXISTING 12" PVC WATERLINE
	EXISTING 2" PVC WATERLINE
	EXISTING 4" PVC WATERLINE
	EXISTING 20" PVC WATERLINE
	EXISTING 6" PVC WATERLINE
	EXISTING 8" PVC WATERLINE
	FUTURE PVC WATERLINE
	STRIPING LANE LINES
	STRIPING FOR TURN LANES
	STRIPED LANE MARKERS

TYPICAL ABBREVIATIONS

AC	AIR CONDITIONER
BB	BOTTOM OF BANK
BC	BUILDING CORNER
BD	BOTTOM OF DITCH
BENCH	TEMP. BENCHMARK
BFC	BOTTOM FACE OF CURB
BOC	BACK OF CURB
BS#	BACKSIGHT (POINT#)
BSW	BACK OF SIDEWALK
BW	BOTTOM OF WALL
CA	CORNER OF ASPHALT
CB	CATCH BASIN
CC	CORNER OF CONCRETE
CDK	CORNER OF DECK
CG	CORNER OF GRAVEL
CI	CURB INLET
CLBP	CENTERLINE OF BIKE PATH
CLCP	CENTERLINE CART PATH
CLOR	CENTERLINE OF CREEK
CLD	CENTERLINE OF DITCH
CLINT	CENTERLINE OF INTERSECTION
CLP	CENTERLINE OF PAVEMENT
CLR	CENTERLINE OF ROAD
CLSW	CENTERLINE OF SIDEWALK
CMF	CONCRETE MONUMENT FOUND
CMP	CORRUGATED METAL PIPE
CMS	CONCRETE MONUMENT SET
CO	CLEAN OUT
COGO	CALCULATED POINT
COL	COLUMN
CP	CONTROL PANEL
CPL	CORNER OF POOL
CPP	CORRUGATED PLASTIC PIPE
CRIT	S.C. COASTAL CRITICAL LINE
CSW	CORNER OF SIDEWALK
CTV	CABLE TELEVISION BOX
DK	DECK
EA	EDGE OF ASPHALT
EB	ELECTRIC BOX
EBP	EDGE OF BIKE PATH
EC	EDGE OF CONCRETE
ECON	ELECTRIC CONDUIT
EDK	EDGE OF DECK
EDR	EDGE OF DIRT ROAD
EDW	EDGE OF DRIVEWAY(DIRT/GRASS)
EG	EDGE OF GRAVEL
EM	EDGE OF MARSH
EMET	ELECTRIC METER
ECP	EDGE OF CART PATH
ESTUB	ELECTRIC STUB-OUT
ESW	EDGE OF SIDEWALK
EW	EDGE OF WATER
F	FENCE
FC	FENCE CORNER
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FENCE LINE
FOM	FIBER OPTIC MARKER
FP	FLAG POLE
FS	FORESIGHT
GI	GRATE INLET
GL	GROUND LIGHT
GPS#	GPS CONTROL (POINT#)
GRV	GRAVE
GT	GAS TANK
GUT	GUTTER LINE
GV	GAS VALVE
GW	GUY WIRE
HPS	HANDICAP PARKING STRIPE
HSB	HOSE BIB
HT#	HUB & TACK (POINT#)
IM	IRRIGATION METER
INV	INVERT ELEVATION
IPC	IRON PIN CALCULATED(CORNER)
IPF	IRON PIN FOUND
IPS	IRON PIN SET
IV	IRRIGATION VALVE
LI	LANDSCAPE ISLAND
LP	LIGHT POLE/LAMP POST
MB	MAIL BOX
MW	MONITOR WELL
NWL	NORMAL WATER LEVEL

TYPICAL ABBREVIATIONS

OHP	OVER HEAD WIRE
PC	PORCH CORNER
PI	POINT OF INTERSECTION
PK#	P/K NAIL (AS SETUPS)
PP	POWER POLE
PS	PARKING STRIPE
PVC	POLYVINYL CHLORIDE PIPE
PKS	PK NAIL SET
RCP	REINFORCED CONCRETE PIPE
RIM	MANHOLE RIM
RIP	EDGE OF RIP-RAP
RP	RADIUS POINT
SB	SETBACK
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SGN*DESC*	SIGN (THEN A DESC.)
SH	SPRINKLER HEAD
SLAT	SEWER LATERAL
SLM	SEWER LINE MARKER
SSMH	SANITARY SEWER MANHOLE
STOP	STOP BAR
STP	STEP
SUN#	SETUP NAIL#
SV	SEWER VALVE
SVM	SEWER VALVE MARKER
SWB	BACK OF SIDEWALK
T	TOPO SHOT (ELEVATION)
TB	TOP OF BANK
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCHMARK
TEL	TELEPHONE PEDESTAL
TIE#	TIE TO SETUP NAIL
TL	TREE LINE
TMH	TELEPHONE MANHOLE
TOP	TOP OF PIPE
TP	TRAVERSE POINT
TRNF	TRANSFORMER
TSB	TRAFFIC STOP BAR
TW	TOP OF WALL
UC	UNDERGROUND CABLE TV
UE	UNDERGROUND ELECTRIC
UFO	UNDERGROUND FIBER OPTIC
UGG	UNDERGROUND GAS LINE
UGM	UNDERGROUND GAS MARKER
USS	UNDERGROUND SANITARY SEWER
UT	UNDERGROUND TELEPHONE
UW	UNDERGROUND WATER
VCP	VERIFIED CLAY PIPE
WELL	WATER WELL
WF	WATER FOUNTAIN
WL	WHITE LINE
WLAT	WATER LATERAL
WLM	WHITE LINE MARKER
WM	WATER METER
WP	WATER PIPE
WT	WATER TANK
WV	WATER VALVE
WVM	WATER VALVE MARKER
YL	YELLOW LINE
SUFFIXES	
END	END (EX. BFC_END)
OL	ON LINE (EX. BFC_OL)

UTILITY MARKINGS:

RED	- ELECTRIC
GREEN	- SEWER
BLUE	- WATER
YELLOW	- GAS
ORANGE	- CABLE
ORANGE "T'S"	- TELEPHONE

TYPICAL LEGEND UNLESS OTHERWISE NOTED

WETLANDS		EDGE OF GRAVEL	EG
DEMOLITION		BOTTOM OF BANK	BB
LAGOON/POND		EXISTING SPOT ELEVATION	o8.43
EXISTING ASPHALT PAVEMENT		LANDSCAPE AREA	GS
CONCRETE PAVEMENT		CONCRETE MARKER	
STONE RIP RAP ON ENGR FABRIC		TEMPORARY BENCHMARK	
BRICK PAVEMENT		CURB INLET	
TYP. ASPHALT PAVEMENT		DRAINAGE MANHOLE	
PERVIOUS PAVEMENT		PROP FIRE HYDRANT	
EDGE OF PAVEMENT	EP	WATER VALVE	
TOP OF BANK	TB	WATER VALVE MARKER	
EXISTING ASPHALT PAVEMENT	o8.43	POST INDICATOR VALVE	
LANDSCAPE AREA	GS	MONITORING WELL	
CONCRETE MARKER		SPRINKLER HEAD	
TEMPORARY BENCHMARK		SANITARY SEWER MANHOLE	
CURB INLET		TRANSFORMER	
DRAINAGE MANHOLE		EXISTING POWER POLE	
PROP FIRE HYDRANT		GUY WIRE	
WATER VALVE		LIGHT POLE	
WATER VALVE MARKER		AIR CONDITIONER	
POST INDICATOR VALVE		FIBER OPTIC MANHOLE	
MONITORING WELL		UNDERGROUND GAS MARKER	
SPRINKLER HEAD		DIP CROSSING	
SANITARY SEWER MANHOLE		PROP STORM DRAIN	
TRANSFORMER		EXISTING STORM DRAIN	
EXISTING POWER POLE		TOP OF PAVEMENT	
GUY WIRE		TOP OF CURB	
LIGHT POLE		TOP OF SIDEWALK	
AIR CONDITIONER		FINISHED GRADE	
FIBER OPTIC MANHOLE		EXISTING CONTOUR	
UNDERGROUND GAS MARKER		PROPOSED CONTOUR	
DIP CROSSING			
PROP STORM DRAIN			
EXISTING STORM DRAIN			
TOP OF PAVEMENT			
TOP OF CURB			
TOP OF SIDEWALK			
FINISHED GRADE			
EXISTING CONTOUR			
PROPOSED CONTOUR			

UTILITY NOTES:

- SHOWN ON PLAN ARE KNOWN UNDERGROUND UTILITY LOCATIONS, HOWEVER, NOT SHOWN BUT POSSIBLY ENCOUNTERED IN THE AREA OF THE SITE ARE OTHER BURIED UTILITIES INCLUDING, BUT NOT NECESSARILY LIMITED TO:
 - TELEPHONE
 - FIBER OPTICS
 - CABLE TELEVISION
 - POTABLE WATER
 - SANITARY SEWER
 - GAS PIPELINE / TRANSMISSION LINE
 - STORM SEWER
- WHEN ENCOUNTERED, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH WRITTEN GRAPHICAL INFORMATION PERTAINING TO THE VERTICAL & HORIZONTAL ALIGNMENT OF UTILITY LOCATIONS.
- ADDITIONAL COST ASSOCIATED WITH THE LOCATING, RELOCATING (DUE TO CONFLICTS), OR DELAYS AS A RESULT OF OTHER UNDERGROUND UTILITIES ENCOUNTERED WILL BE THE RESPONSIBILITY OF THE UTILITY PROVIDER.
- THOSE COSTS BEING ADDITIONAL PIPING, BORES, ASPHALT CUT & PATCH, CLEARING & GRUBBING, STABILIZATION & GRASSING, OR OTHER SPECIAL CONSTRUCTION TECHNIQUES TO BE CHARGED AT THE UNIT BID PRICE OR A NEGOTIATED FEE.

GENERAL NOTES:

- NO SITE WORK SHALL BEGIN ON A REGULATED SITE UNTIL ALL TREE PROTECTION IS IN PLACE AND ALL REQUIRED SILT FENCE HAS BEEN INSTALLED.
- A HORIZONTAL & VERTICAL CONTROL MONUMENT HAS BEEN DESIGNATED BY THE ENGINEER. THE VERTICAL DATUM IS NGVD-29, AND THE HORIZONTAL DATUM IS NAD 83.
- ALL PAVEMENT DIMENSIONS (I.E., ROAD WIDTHS, PARKING LOTS, LANDSCAPE ISLANDS, ETC.) ARE GIVEN TO THE EDGE OF PAVEMENT OR BACK OF CURB, AS SITE DICTATES.
- ALL BUILDING TIES ARE PERPENDICULAR TO THE PROPERTY LINES.
- CONTRACTOR TO IDENTIFY AND LOCATE ALL UNDERGROUND UTILITIES PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR TRAFFIC CONTROL AND SAFETY DURING CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR SECURING SITE DURING NON-WORKING HOURS TO ENSURE TRAFFIC AND PEDESTRIAN SAFETY.
- THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL BE AWARE THAT SOME PART OR ALL OF THE CONSTRUCTION OF THIS SITE MAY FALL UNDER THE JURISDICTION OF SPECIFIC CONDITIONS RELEVANT TO A SCDOT OR BEAUFORT COUNTY ENCROACHMENT PERMIT, UNITED STATES ARMY CORPS PERMIT, SETBACKS/BUFFERS PERTINENT TO THE ESTABLISHED ZONING ORDINANCES, SC-DHEC PERMITS, DHEC-OCRM PERMITS OR THE WATER AND SEWER AUTHORITY OF JURISDICTION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONFIRM THE EXISTENCE AND CONDITIONS OF ALL PERMITS RELEVANT TO THIS PROJECT PRIOR TO THE COMMENCEMENT OF THE IMPACTED PHASE(S) OF CONSTRUCTION.
- THE WATER AND SEWER CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE INSTALLATION OF WATER AND SEWER SERVICES IN ACCORDANCE WITH THE SPECIFICATIONS AND RELEVANT DETAILS OF THE WATER AND SEWER AUTHORITY OF JURISDICTION. THE LOCATION OF WATER AND/OR SEWER SERVICES SHOWN ON THESE PLANS IS TO BE CONSIDERED TO BE SCHEMATIC AND HAS BEEN SHOWN ON THESE DRAWINGS FOR REFERENCE PURPOSES ONLY. SEE DETAILS OR ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
- ALL DEDICATED FIRE LINES FROM PIV TO BUILDING AND FDC'S TO BE DESIGNED & INSTALLED BY FIRE SPRINKLER DESIGNER/FIRE SPRINKLER CONTRACTOR.
- CONTRACTOR IS MADE AWARE THAT OSHA REQUIRES A PROTECTIVE SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR EXCAVATIONS DEEPER THAN 20 FT.
- CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO EXISTING ROADWAYS FROM CONSTRUCTION AREAS.

TREE PROTECTION & REMOVAL NOTES:

INSTALL ALL TREE PROTECTION FENCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

PROJECT REQUIREMENTS FOR HARGRAY TELEPHONE & CATV:

- COMMERCIAL BUILDINGS-APARTMENTS-VILLAS TO HAVE A MINIMUM 4" DIAMETER CONDUIT SCH. 40 PVC WITH PULL STRING BURIED AT 24" TO 30" DEPTH, FROM THE EQUIPMENT ROOM OR POWER METER LOCATION TO A POINT DESIGNATED BY HARGRAY AT ROAD RIGHT-OF-WAY OR PROPERTY LINE. CONDUITS ARE REQUIRED FROM EACH BUILDING SITE & MULTIPLE CONDUITS MAY APPLY.
- HOTEL OR LARGE COMMERCIAL PROJECT REQUIREMENTS WOULD BE 2-4" DIAMETER SCH. 40 PVC UNDERGROUND CONDUITS.
- EQUIPMENT ROOMS TO HAVE 3/4" 4'X8' SHEET OF PLYWOOD MOUNTED ON WALL TO RECEIVE TELEPHONE EQUIPMENT.
- A POWER GROUND ACCESSIBLE AT EQUIPMENT ROOM OR AN INSULATED #6 FROM THE SERVICE PANEL OR POWER MGN TO THE BACKBOARD.
- RESIDENTIAL WIRING REQUIRES MINIMUM THREE PAIR TWISTED IN LOOP CONFIGURATION (INDUSTRY STANDARD).
- CATV INSIDE WIRING WILL BE RG6 FOIL WRAPPED 66% BRAID MINIMUM, HOME RUN TO EACH OUTLET.
- ALL INTERIOR WIRING SHOULD BE PULLED TO THE AREA IMMEDIATELY ADJACENT TO THE PLYWOOD BACKBOARD OR POWER METER LOCATION. A MINIMUM OF 5' OF SLACK IS REQUIRED FOR TERMINATIONS.
- EASEMENTS ARE REQUIRED.

CONSTRUCTION SEQUENCE

- RECEIVE NPDES COVERAGE FROM DHEC
- PRE-CONSTRUCTION MEETING (ON-SITE IF MORE THAN 10 DISTURBED AND NON-LINEAR)
- NOTIFY DHEC EQC REGIONAL OFFICE OR OCRM 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES
- INSTALLATION OF CONSTRUCTION ENTRANCE(S)
- CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS
- INSTALLATION OF PERIMETER CONTROLS (E.G., SILT FENCE)
- CLEARING & GRUBBING ONLY IN AREAS OF BASIN/TRAPS/PONDS
- INSTALLATION OF BASINS/TRAPS/PONDS AND INSTALLATION OF DIVERSIONS TO THOSE STRUCTURES (OUTLET STRUCTURES MUST BE COMPLETELY INSTALLED AS SHOWN ON THE DETAILS BEFORE PROCEEDING TO NEXT STEP; AREAS DRAINING TO THESE STRUCTURES CANNOT BE DISTURBED UNTIL THE STRUCTURES AND DIVERSIONS TO THE STRUCTURES ARE COMPLETELY INSTALLED)
- CLEARING & GRUBBING OF SITE OR DEMOLITION (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED)
- ROUGH GRADING
- INSTALLATION OF STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED
- FINE GRADING, PAVING, ETC.
- PERMANENT/ FINAL STABILIZATION
- REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES)
- PERFORM AS-BUILT SURVEYS OF ALL DETENTION STRUCTURES AND SUBMIT TO DHEC FOR ACCEPTANCE AND VIDEO NEW STORM SEWER PER SCDOT SPECIFICATIONS
- SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AS APPROPRIATE

WATER & SANITARY SEWER NOTES:

- THE EXISTING WATERLINE INFORMATION HAS BEEN SUPPLIED BY OTHERS. ITS LOCATION AND SIZE ARE APPROXIMATE. THE CONTRACTOR IS TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING WATERLINE PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR IS TO COORDINATE THE WATERLINE TIE IN WITH BJWSA SEVENTY TWO (72) HOURS MINIMUM BEFORE WATERLINE SHUTDOWN.
- WATERLINES 4" AND ABOVE ARE TO BE C900-DR18-CL150. ALL 2" WATERLINES ARE TO BE HDPE, AND ALL DUCTILE IRON PIPE (DIP) IS TO BE CL150.
- WATER METERS ARE 1" DIA. UNLESS OTHERWISE NOTED, AND ARE TO BE PROVIDED AND SET BY BJWSA.
- ALL SANITARY SEWER PIPE LENGTHS IN PLAN AND PROFILE VIEWS ARE TO THE CENTERLINE OF THE MANHOLES.
- SANITARY SEWER PIPE IS TO BE PVC SDR26.
- EXISTING MANHOLE LOCATION, RIM ELEVATION, AND INVERTS HAVE BEEN SUPPLIED BY THE SURVEYOR. THE PIPE LOCATION IS APPROXIMATE AND IS TO BE FIELD VERIFIED BY THE CONTRACTOR IF APPLICABLE.
- SANITARY SEWER LATERALS ARE TO BE LAID WITH A MINIMUM SLOPE OF 2.00% AS SHOWN ON PLANS.

STORM SEWER NOTES:

- RCP IS TO BE (CUII), UNLESS OTHERWISE NOTED.
- HDPE IS TO BE N-12 UNLESS OTHERWISE NOTED.
- ALL PIPE LENGTHS IN THE PLAN AND PROFILE VIEWS ARE TO THE CENTERLINE OF THE STRUCTURE. (I.E.: CB, JB, OR OUTFALL)
- SUBGRADE DRAIN IS TO BE 4" PERFORATED HDPE WITH GEOTEXTILE SOCK.
- WRAP ALL JOINTS W/GEOTEXTILE FABRIC

PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS	
NO.	DESCRIPTION
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ANDREWS & BURGESS INC. No. 12860
Professional Engineer
No. 00008

40A Shanklin Road
Beaufort, SC 29906
Tel: 843-742-2766
Fax: 843-742-2766

Andrews & Burgess Inc.
Engineering & Surveying

Site Development Plan
For
Duke Street
Phase 2
City of Beaufort
Beaufort County, SC

Typical Legend
and
Note Sheet

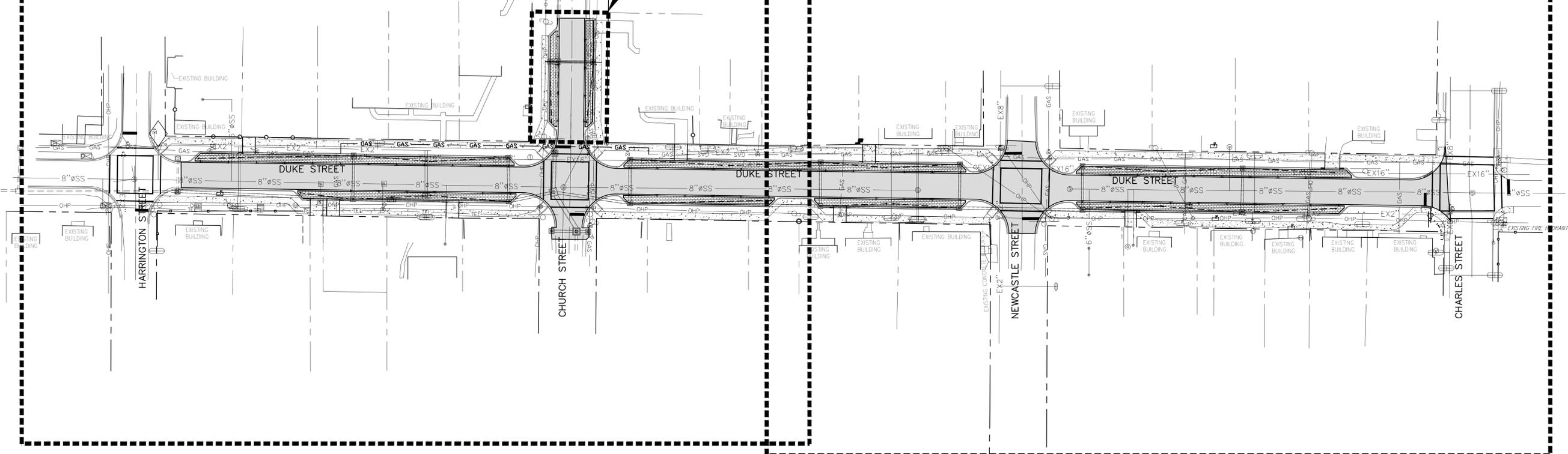
Date Drawn: 07/05/13
Last Revised: 04/25/14
Drawn By: R. Crosby
Engineer: S. Andrews

SHEET #:
Notes
JOB: 135001

BID ALTERNATE - CHURCH STREET

SHEETS 2, 4 & 6

SHEETS 3, 4 & 7



PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	BID ALTERNATE - CHURCH STREET	6/25/14	RL
2			
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Professional Engineer Seal: Andrew S. Andrews, No. 12860, State of North Carolina.

Professional Engineer Seal: Robert L. Burgess, No. 00008, State of North Carolina.

2712 Bull Street Suite A
Beaufort, SC 29902
843.737.2223
843.737.2223

Andrews & Burgess Inc.
Engineering & Surveying

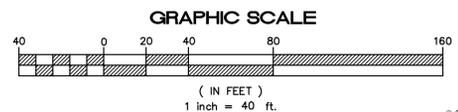
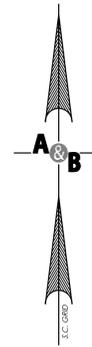
Site Development Plan
For
Duke Street
Phase 2
City of Beaufort
Beaufort County, SC

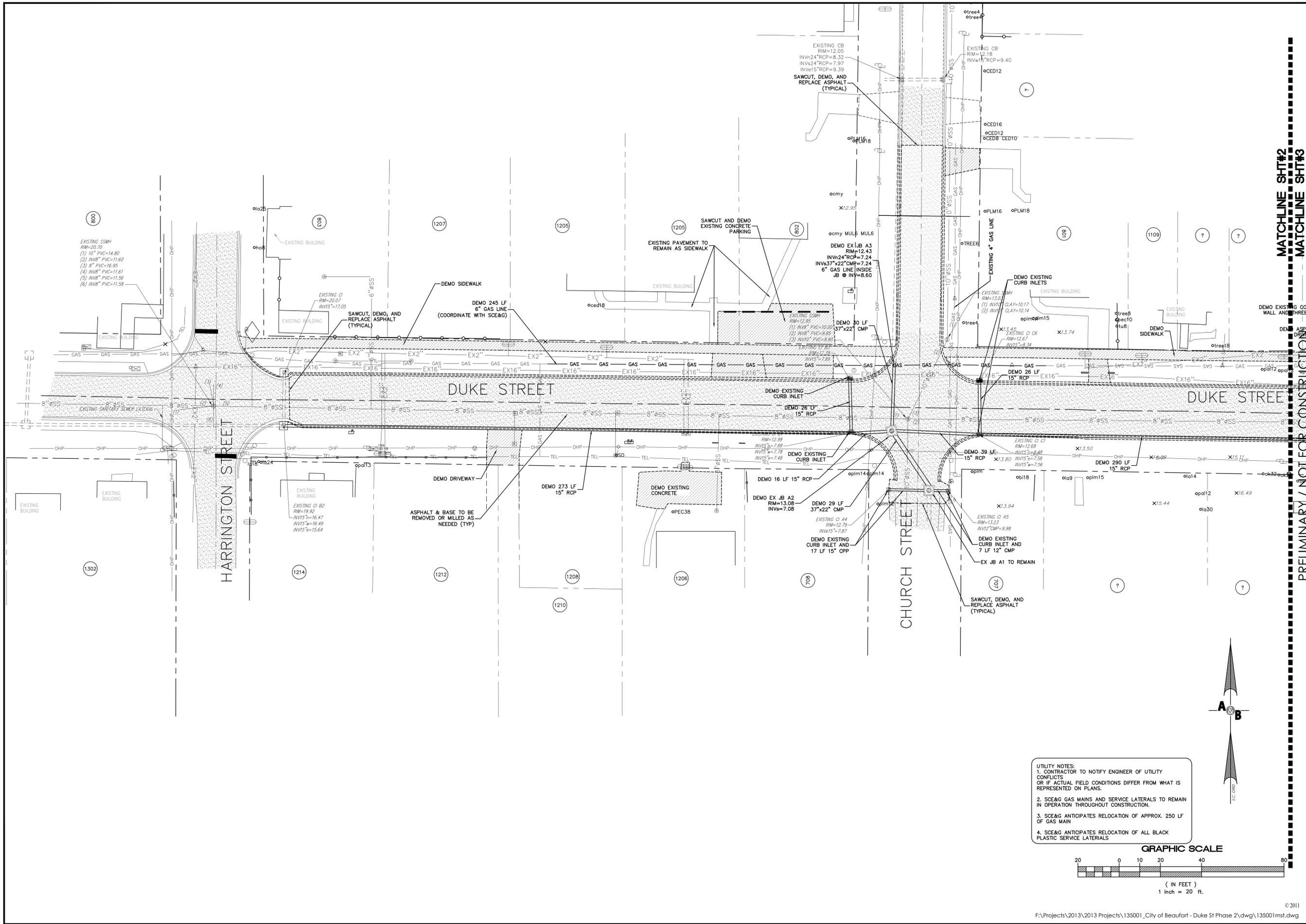
Index Sheet

Date Drawn: 07/05/13
Last Revised: 06/25/14
Drawn By: R. Crosby
Engineer: S. Andrews

SHEET #:
1

JOB: 135001





MATCHLINE SHT#2
 PRELIMINARY / NOT FOR CONSTRUCTION
 MATCHLINE SHT#3

PLAN REVISIONS	
NO.	DESCRIPTION
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ANDREWS & BURGESS, INC.
 No. 000008
 CERTIFIED OF PROFESSIONAL ENGINEERING

2712 Bull Street Suite A
 Beaufort, SC 29902
 843.843.3762
 Fax 843.376.2223

Andrews & Burgess Inc.

Engineering & Surveying

Site Development Plan
 For
 Duke Street
 Phase 2
 City of Beaufort
 Beaufort County, SC

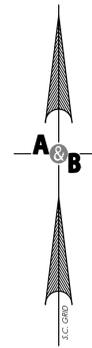
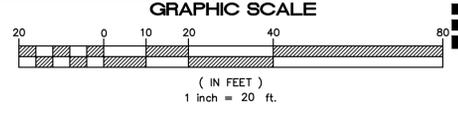
Existing Site
 and
 Demolition Plan

Date Drawn: 07/05/13
 Last Revised: 04/25/14
 Drawn By: R. Crosby
 Engineer: S. Andrews

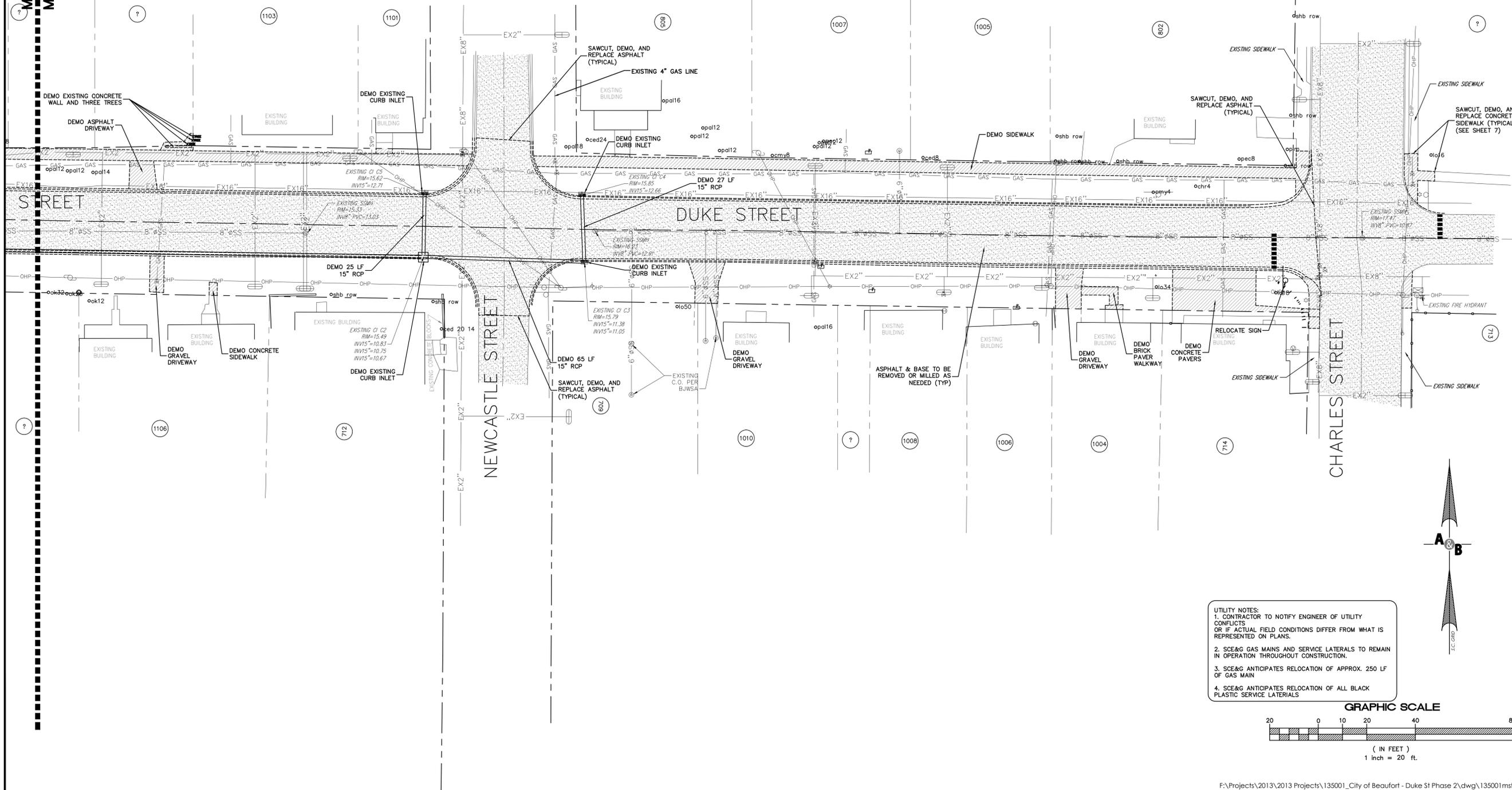
SHEET #:
2

JOB: 135001

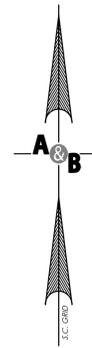
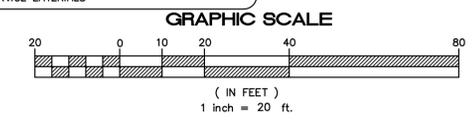
- UTILITY NOTES:
- CONTRACTOR TO NOTIFY ENGINEER OF UTILITY CONFLICTS OR IF ACTUAL FIELD CONDITIONS DIFFER FROM WHAT IS REPRESENTED ON PLANS.
 - SCE&G GAS MAINS AND SERVICE LATERALS TO REMAIN IN OPERATION THROUGHOUT CONSTRUCTION.
 - SCE&G ANTICIPATES RELOCATION OF APPROX. 250 LF OF GAS MAIN
 - SCE&G ANTICIPATES RELOCATION OF ALL BLACK PLASTIC SERVICE LATERALS



MATCHLINE SHT#2
MATCHLINE SHT#3



UTILITY NOTES:
 1. CONTRACTOR TO NOTIFY ENGINEER OF UTILITY CONFLICTS OR IF ACTUAL FIELD CONDITIONS DIFFER FROM WHAT IS REPRESENTED ON PLANS.
 2. SCE&G GAS MAINS AND SERVICE LATERALS TO REMAIN IN OPERATION THROUGHOUT CONSTRUCTION.
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PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS		
NO.	DESCRIPTION:	DATE:
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Professional Engineer Seal: Andrew Burgess, No. 12860, State of North Carolina.

2712 Bull Street Suite A
 Beaufort, SC 29902
 843.843.3763/2223

Andrews & Burgess Inc.

Engineering & Surveying

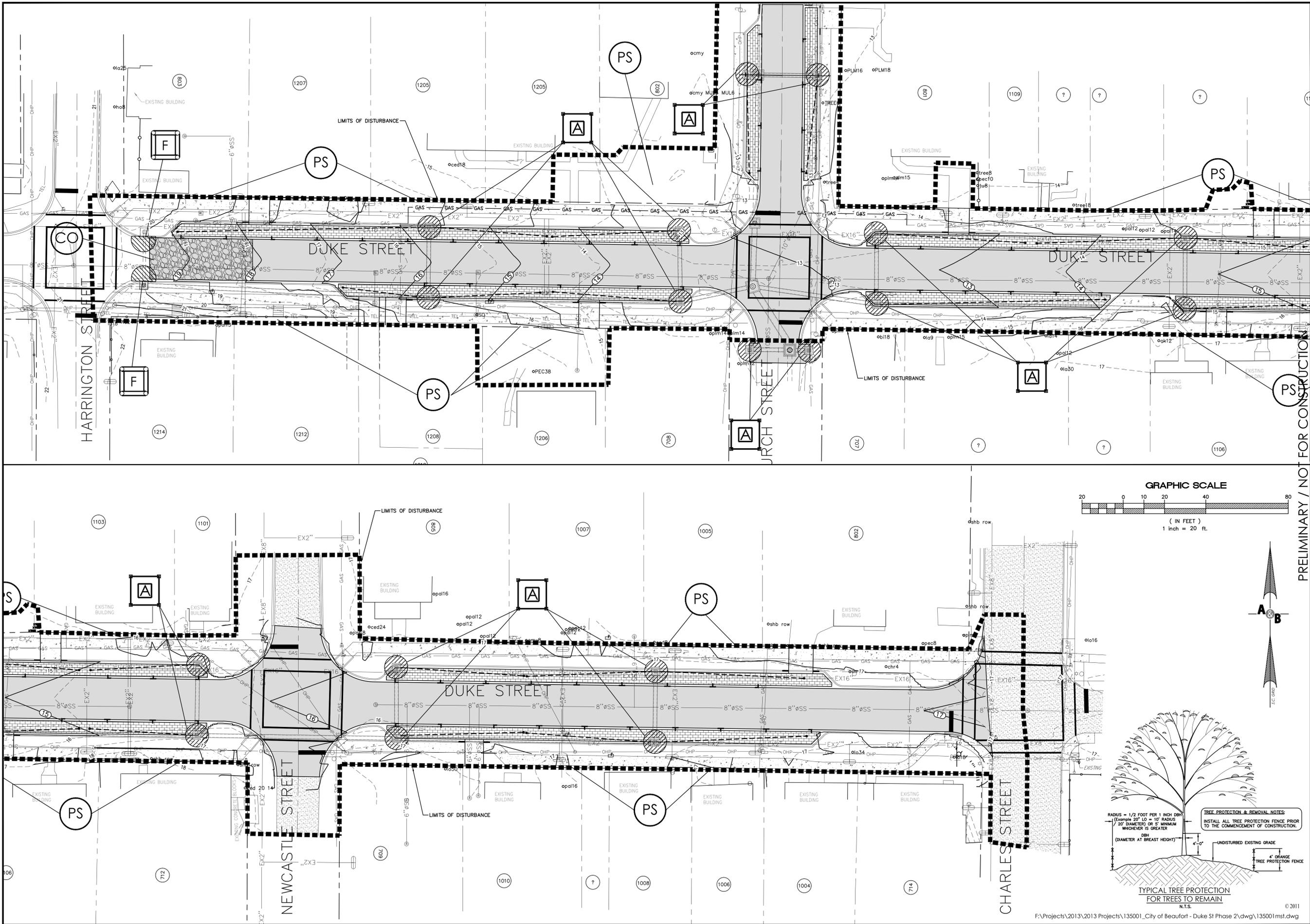
Site Development Plan
 For
 Duke Street
 Phase 2
 City of Beaufort
 Beaufort County, SC

Existing Site
 and
 Demolition Plan

Date Drawn: 07/05/13
 Last Revised: 04/25/14
 Drawn By: R. Crosby
 Engineer: S. Andrews

SHEET #:
3

JOB: 135001



PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
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2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

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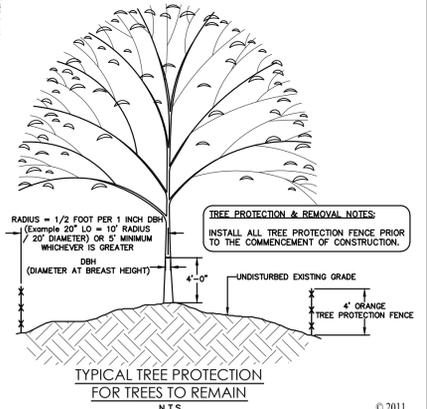
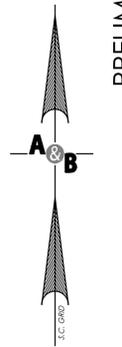
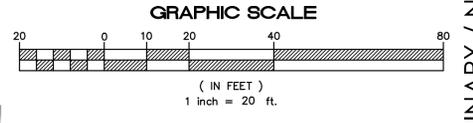
Site Development Plan
For
Duke Street
Phase 2
City of Beaufort
Beaufort County, SC

Tree Protection
& Removal and
Sediment & Erosion
Control Plan

Date Drawn: 07/05/13
Last Revised: 04/25/14
Drawn By: R. Crosby
Engineer: S. Andrews

SHEET #:
4

JOB: 135001

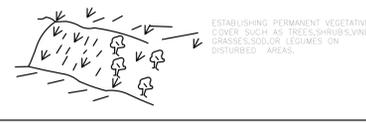


PRELIMINARY / NOT FOR CONSTRUCTION

TS TEMPORARY SEEDING



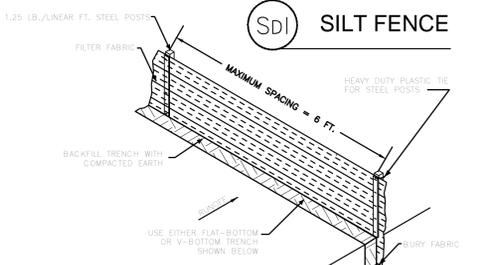
PS PERMANENT SEEDING



VEGETATIVE SEEDING NOTES

- TEMPORARY STABILIZATION IS REQUIRED WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IS COMPLETE UNLESS CONSTRUCTION ACTIVITY IS GOING TO RESUME WITHIN 21 DAYS.
- COVER SEEDED AREAS WITH AN APPROPRIATE MULCH TO PROVIDE PROTECTION FROM THE WEATHER.
- WHEN THE TEMPORARY VEGETATION DOES NOT GROW QUICKLY OR THICK ENOUGH TO PREVENT EROSION, RE-SEED AS SOON AS POSSIBLE.
- KEEP SEEDED AREAS ADEQUATELY MOST IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS.
- WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORB WATER TO PREVENT RUNOFF.
- SEED SELECTION IS BASED ON GEOGRAPHICAL LOCATION, SOIL TYPE AND THE SEASON OF THE YEAR IN WHICH THE PLANTING IS TO BE DONE.

SDI SILT FENCE



SILT FENCE DETAIL

WHEN AND WHERE TO USE IT
SILT FENCE IS APPLICABLE IN AREAS:

- WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100- FEET.
- WHERE THE MAXIMUM SLOPE STEEPNESS (PERPENDICULAR TO FLOW LINE) IS 2H:1V THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS.
- WHERE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.

MATERIALS

STEEL POSTS
USE 60-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:

- COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.
- HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.
- WEIGH 1.25 POUNDS PER FOOT (± 8%).
- HAVE A SOIL STABILIZATION PLATE WITH A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES ATTACHED TO THE STEEL POSTS.
- PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

USE STEEL POSTS WITH A MINIMUM LENGTH OF 5- FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT (± 8%) WITH PROJECTIONS TO AID IN FASTENING THE FABRIC. EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON SITE, STEEL POSTS WILL HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW THE GROUND LEVEL FOR ADDED STABILITY.

THE SOIL PLATES SHOULD HAVE THE FOLLOWING CHARACTERISTICS:

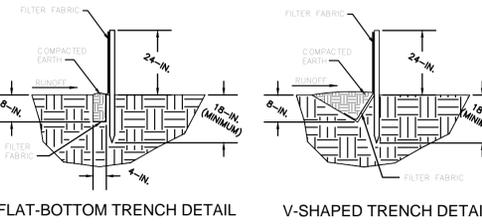
- BE COMPOSED OF MINIMUM 15 GAUGE STEEL.
- HAVE A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES.

GEOTEXTILE FILTER FABRIC

FILTER FABRIC IS:

- COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES.
- FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.
- FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.
- FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES.
- CUT TO A MINIMUM WIDTH OF 36 INCHES.

USE ONLY FABRIC APPEARING ON SCDOT APPROVAL SHEET #34 MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.



FLAT-BOTTOM TRENCH DETAIL

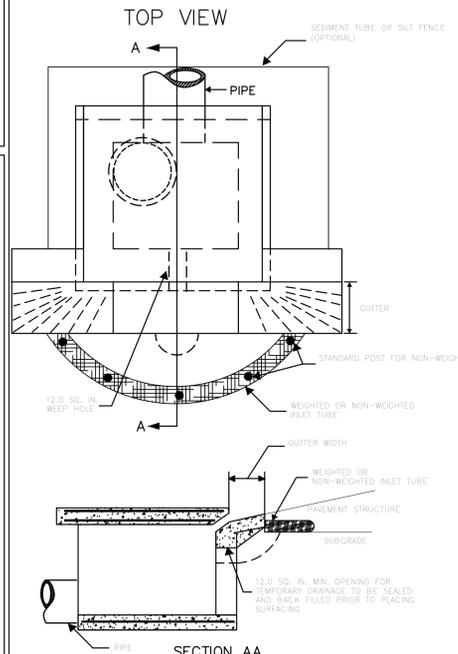
V-SHAPED TRENCH DETAIL

INSTALLATION
EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND. PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT/BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAP THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST WITH A 6-INCH MINIMUM OVERLAP. INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2-INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3- FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO MAXIMUM 6- FEET CENTERS.

INSPECTION AND MAINTENANCE
INSPECT EVERY SEVEN CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OR MORE OF PRECIPITATION. CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS EXCEEDED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY.

- REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.
- REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE.
- REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPs) ARE NO LONGER NEEDED.
- PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.

F TYPE F INLET TUBES



TYPE F INLET TUBES

MATERIALS
USE INLET TUBES THAT EXHIBIT THE FOLLOWING PROPERTIES: PRODUCED BY A MANUFACTURER EXPERIENCED IN SEDIMENT TUBE MANUFACTURING; COMPOSED OF COMPACTED GEOTEXTILES, CURLED EXCELISOR WOOD, NATURAL COCONUT FIBERS OR HARDWOOD MULCH OR A MIX OF THESE MATERIALS ENCLOSED BY A FLEXIBLE NETTING MATERIAL. DO NOT USE STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES OR LEAF MULCH UNDER THIS SPECIFICATION. UTILIZE AN OUTER NETTING THAT CONSISTS OF SEAMLESS, HIGH-DENSITY POLYETHYLENE PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR A SEAMLESS, HIGH-DENSITY POLYETHYLENE NON-DEGRADABLE MATERIALS. CURLED WOOD EXCELISOR FIBER, OR NATURAL COCONUT FIBER ROLLED EROSION CONTROL PRODUCTS (RECP) ROLLED UP TO CREATE AN INLET TUBE ARE NOT ALLOWED UNDER THIS SPECIFICATION.

WEIGHTED INLET TUBES
WEIGHTED INLET TUBES ARE SEDIMENT TUBES CAPABLE OF STAYING IN PLACE WITHOUT EXTERNAL STABILIZATION MEASURES AND MAY HAVE A WEIGHTED INNER CORE OR OTHER WEIGHTED MECHANISM TO KEEP THEM IN PLACE.

MATERIALS
APPLICABLE TYPE F WEIGHTED INLET TUBES MAY BE SELECTED FROM THE SCDOT APPROVED PRODUCTS LIST.

INSTALLATION
INSTALL WEIGHTED INLET TUBES LYING FLAT ON THE GROUND, WITH NO GAPS BETWEEN THE UNDERLYING SURFACE AND THE INLET TUBE. NEVER STACK WEIGHTED INLET TUBES ON TOP OF ONE ANOTHER. DO NOT COMPLETELY BLOCK INLETS WITH WEIGHTED INLET TUBES. INSTALL WEIGHTED INLET TUBES IN SUCH A MANNER THAT ALL OVERFLOW OR OVERTOPPING WATER HAS THE ABILITY TO ENTER THE INLET UNOBSTRUCTED. TO AVOID POSSIBLE FLOODING, TWO OR THREE CONCRETE CINDER BLOCKS MAY BE PLACED BETWEEN THE WEIGHTED INLET TUBES AND THE INLET.

NON-WEIGHTED INLET TUBES
NON-WEIGHTED INLET TUBES ARE DEFINED AS SEDIMENT TUBES THAT REQUIRE STAKING OR OTHER STABILIZATION METHODS TO KEEP THEM SAFELY IN PLACE.

MATERIALS
APPLICABLE TYPE F NON-WEIGHTED INLET TUBES MAY BE SELECTED FROM THE SCDOT APPROVED PRODUCTS LIST.

INSPECTION AND MAINTENANCE
INLET TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION AS NEEDED. REPLACE INLET TUBES DAMAGED DURING INSTALLATION AS DIRECTED BY THE INSPECTOR OR MANUFACTURER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

SEDIMENT AND EROSION CONTROL NOTES

1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydros seeding. 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 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 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 off-site 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 the 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 SCR10000.
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 (WofS), 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 can't be maintained between the disturbed area and all WofS. A 10-foot buffer should be maintained between the last row of silt fence and all WofS.
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, inspections records, and rainfall data must be retained at the construction site or a 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 sites are prohibited:
 - Wastewater from washout of concrete, unless managed by an appropriate control;
 - Wastewater from washout and cleanup 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 or solvents used in vehicle and equipment washing.
17. After construction activities begin, inspections must be conducted at a minimum of 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.

PLAN REVISIONS		NO.	DESCRIPTION:	DATE:	BY:
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40A Shanklin Road
Beaufort, SC 29906
843.466.0369
Fax 843.466.9766

Andrews & Burgess Inc.
Engineering & Surveying

Site Development Plan
For
Duke Street
Phase 2
City of Beaufort
Beaufort County, SC

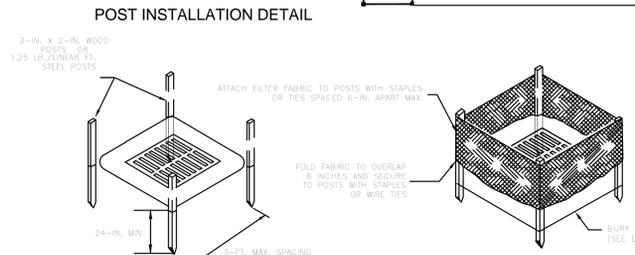
Sediment And
Erosion Control
Details

Date Drawn: 07/05/13
Last Revised: 04/25/14
Drawn By: R. Crosby
Engineer: S. Andrews

SHEET #: **5**

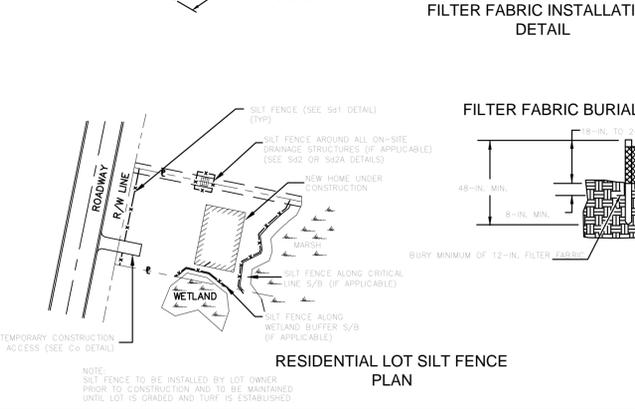
JOB: 135001

A TYPE A - FILTER FABRIC INLET PROTECTION



POST INSTALLATION DETAIL

INSTALLATION
EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND. PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT/BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAP THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST WITH A 6-INCH MINIMUM OVERLAP. INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2-INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3- FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO MAXIMUM 6- FEET CENTERS.



INSTALLATION
EXCAVATE A TRENCH 8-INCHES WIDE AND 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

EXTEND THE FILTER FABRIC A MINIMUM OF 12-INCHES INTO THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 60-INCHES CONSISTING OF STANDARD "T" SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT (±8%). INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE STEEL POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3- FEET APART AND DRIVE THEM INTO THE GROUND A MINIMUM OF 24-INCHES. CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, WRAP FILTER FABRIC TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6-INCH OVERLAP.

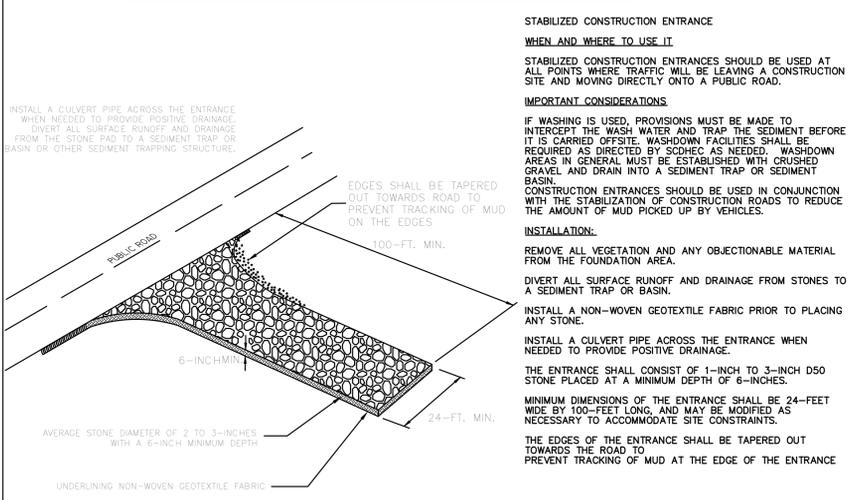
ATTACH FABRIC TO STEEL POSTS WITH HEAVY-DUTY PLASTIC TIES.

ATTACH AT LEAST FOUR (4) EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, AFFIX TIES IN NO LESS THAN FOUR (4) PLACES.

INSPECTION AND MAINTENANCE:
INSPECTIONS SHOULD BE MADE EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES 1/2-INCHES OR MORE OF RAIN. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.

STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY 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. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.

CO STABILIZED CONSTRUCTION ENTRANCE



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 1/2-INCHES OR MORE OF PRECIPITATION. 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

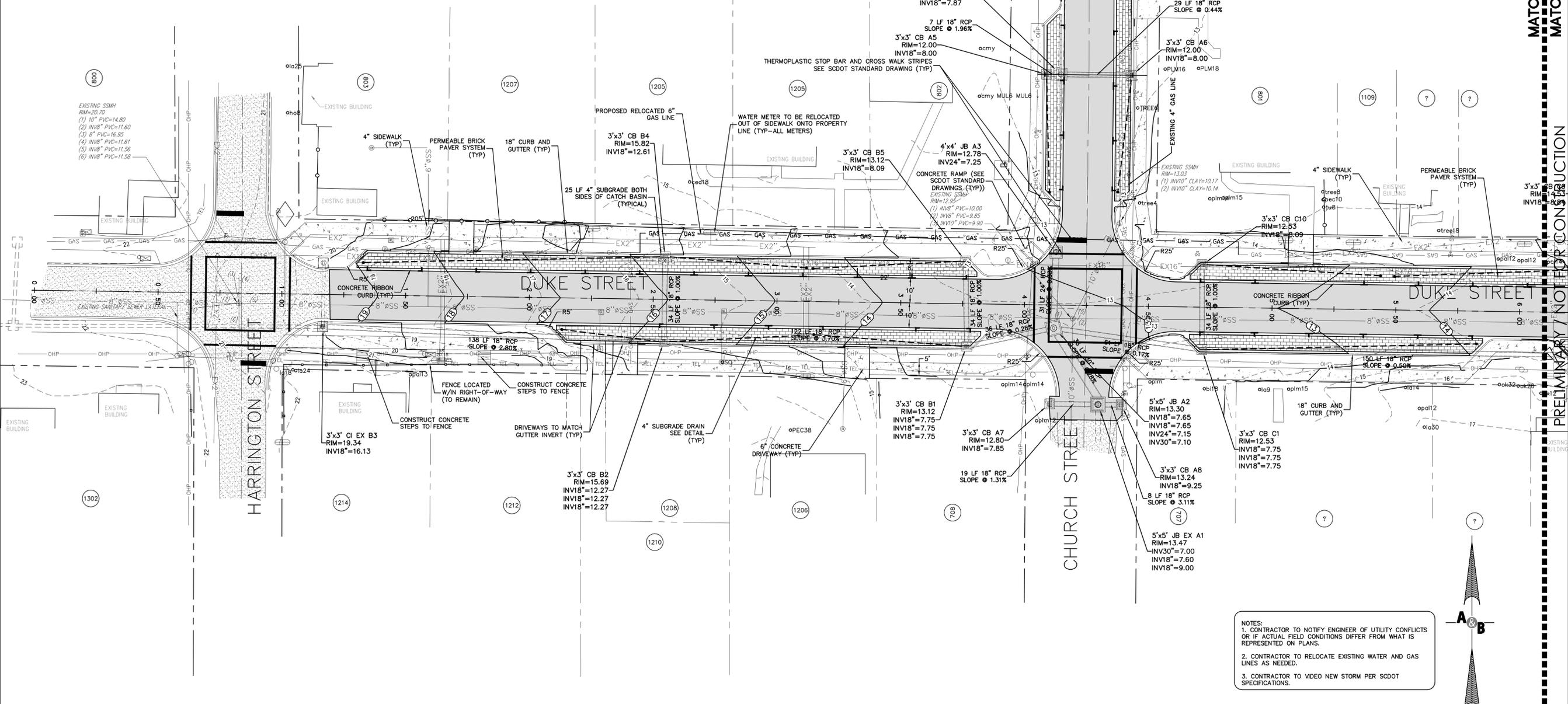
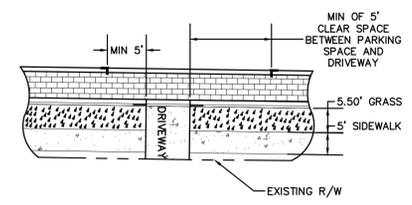
GRADING LEGEND

.23.00	EXISTING SPOT ELEVATION
(22.00)	EXISTING CONTOURS
(22)	PROPOSED CONTOURS
TP22.07	PROPOSED SPOT ELEVATION (TOP OF PAVEMENT)
TS24.84	PROPOSED SPOT ELEVATION (TOP OF SIDEWALK)
TC24.84	PROPOSED SPOT ELEVATION (TOP OF CURB)
FG24.84	PROPOSED SPOT ELEVATION (FINISH GRADE)
LP22.30	PROPOSED SPOT ELEVATION (LOW POINT)
HP22.70	PROPOSED SPOT ELEVATION (HIGH POINT)

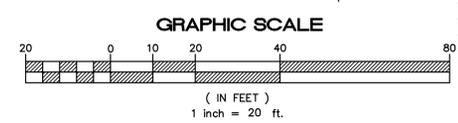
- STORM SEWER NOTES:**
- RCP IS TO BE (CUII), UNLESS OTHERWISE NOTED.
 - HDPE IS TO BE N-12 UNLESS OTHERWISE NOTED.
 - ALL PIPE LENGTHS IN THE PLAN AND PROFILE VIEWS ARE TO THE CENTERLINE OF THE STRUCTURE. (I.e.: CB, JB, OR OUTFALL)
 - SUBGRADE DRAIN IS TO BE 4" PERFORATED HDPE WITH GEOTEXTILE SOCK.
 - WRAP ALL JOINTS W/GEOTEXTILE FABRIC

PAVEMENT LEGEND

[Pattern]	HEAVY DUTY ASPHALT PAVING
[Pattern]	BRICK PAVERS



- NOTES:**
- CONTRACTOR TO NOTIFY ENGINEER OF UTILITY CONFLICTS OR IF ACTUAL FIELD CONDITIONS DIFFER FROM WHAT IS REPRESENTED ON PLANS.
 - CONTRACTOR TO RELOCATE EXISTING WATER AND GAS LINES AS NEEDED.
 - CONTRACTOR TO VIDEO NEW STORM PER SCDOT SPECIFICATIONS.



MATCHLINE SHT#6
MATCHLINE SHT#7
PRELIMINARY NOT FOR CONSTRUCTION

PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
1			
2			
3			
4			
5			
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7			
8			

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ANDREWS & BURGESS INC.
Professional Engineer
No. 12860
No. 00008
SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
SINCE 1988
MADE IN THE U.S.A.

2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

Andrews & Burgess Inc.
Engineering & Surveying

Site Development Plan
For
Duke Street
Phase 2
City of Beaufort
Beaufort County, SC

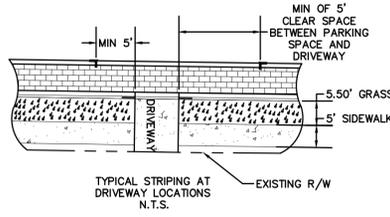
Paving, Grading
and Drainage
Plan

Date Drawn: 07/05/13
Last Revised: 04/25/14
Drawn By: R. Crosby
Engineer: S. Andrews

SHEET #:
6

JOB: 135001

MATCHLINE SHT#6
MATCHLINE SHT#7

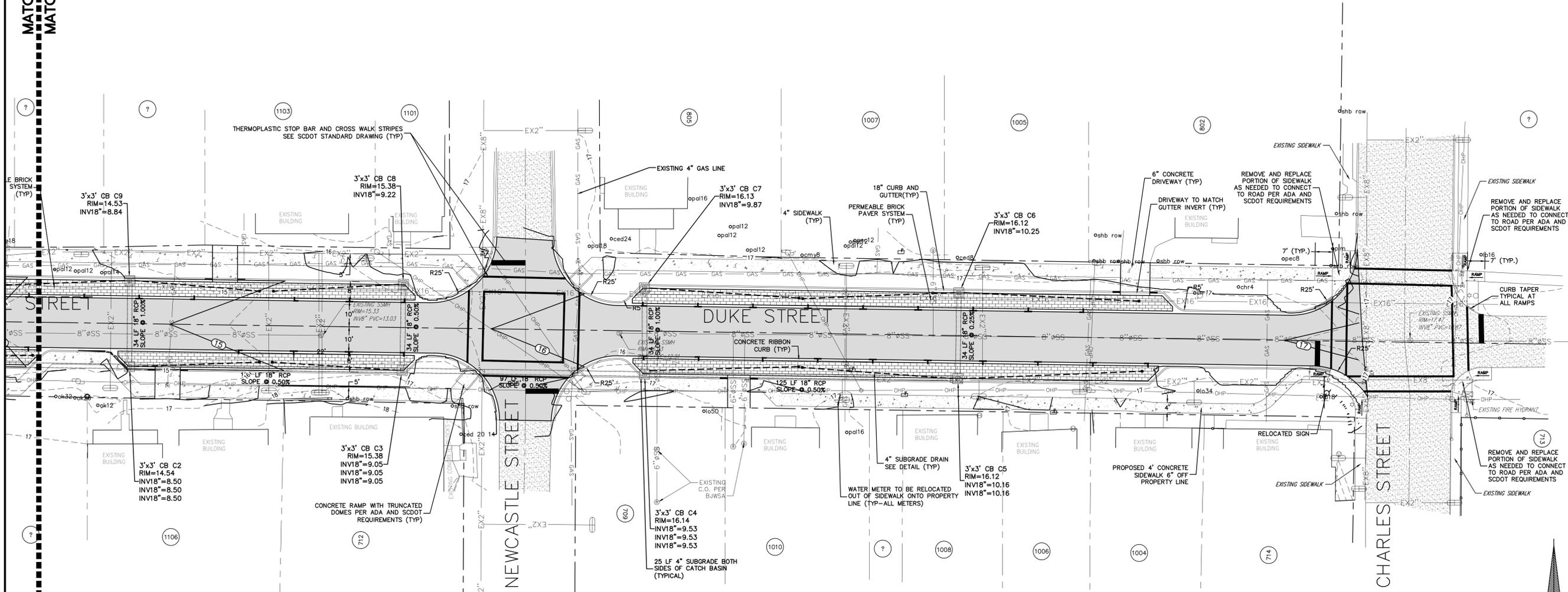


GRADING LEGEND	
.23.00	EXISTING SPOT ELEVATION
22.00	EXISTING CONTOURS
20	PROPOSED CONTOURS
TP22.07	PROPOSED SPOT ELEVATION (TOP OF PAVEMENT)
TS24.84	PROPOSED SPOT ELEVATION (TOP OF SIDEWALK)
TC24.84	PROPOSED SPOT ELEVATION (TOP OF CURB)
FG24.84	PROPOSED SPOT ELEVATION (FINISH GRADE)
LP22.30	PROPOSED SPOT ELEVATION (LOW POINT)
HP22.70	PROPOSED SPOT ELEVATION (HIGH POINT)

STORM SEWER NOTES:

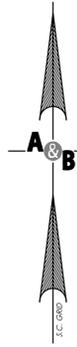
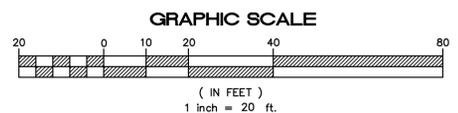
- RCP IS TO BE (CUII), UNLESS OTHERWISE NOTED.
- HDPE IS TO BE N-12 UNLESS OTHERWISE NOTED.
- ALL PIPE LENGTHS IN THE PLAN AND PROFILE VIEWS ARE TO THE CENTERLINE OF THE STRUCTURE. (I.e.: CB, JB, OR OUTFALL)
- SUBGRADE DRAIN IS TO BE 4" PERFORATED HDPE WITH GEOTEXTILE SOCK.
- WRAP ALL JOINTS W/GEOTEXTILE FABRIC

PAVEMENT LEGEND	
HEAVY DUTY ASPHALT PAVING	
BRICK PAVERS	



NOTES:

- CONTRACTOR TO NOTIFY ENGINEER OF UTILITY CONFLICTS OR IF ACTUAL FIELD CONDITIONS DIFFER FROM WHAT IS REPRESENTED ON PLANS.
- CONTRACTOR TO RELOCATE EXISTING WATER AND GAS LINES AS NEEDED.



PLAN REVISIONS		
NO.	DESCRIPTION:	DATE: BY:
1		
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Engineering & Surveying

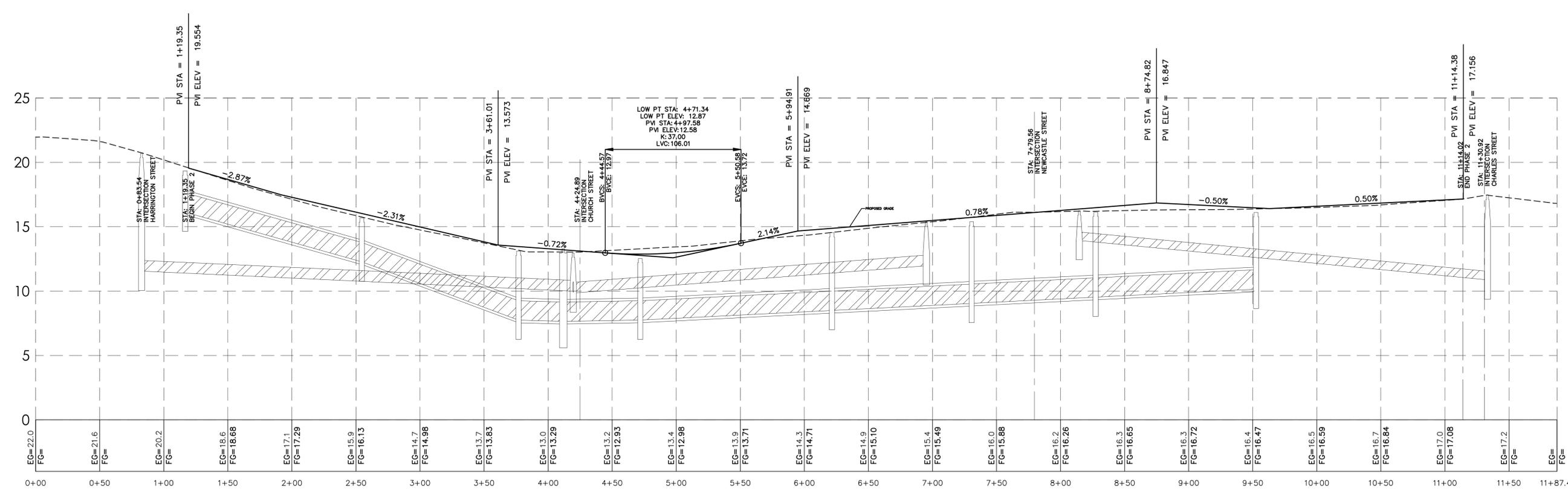
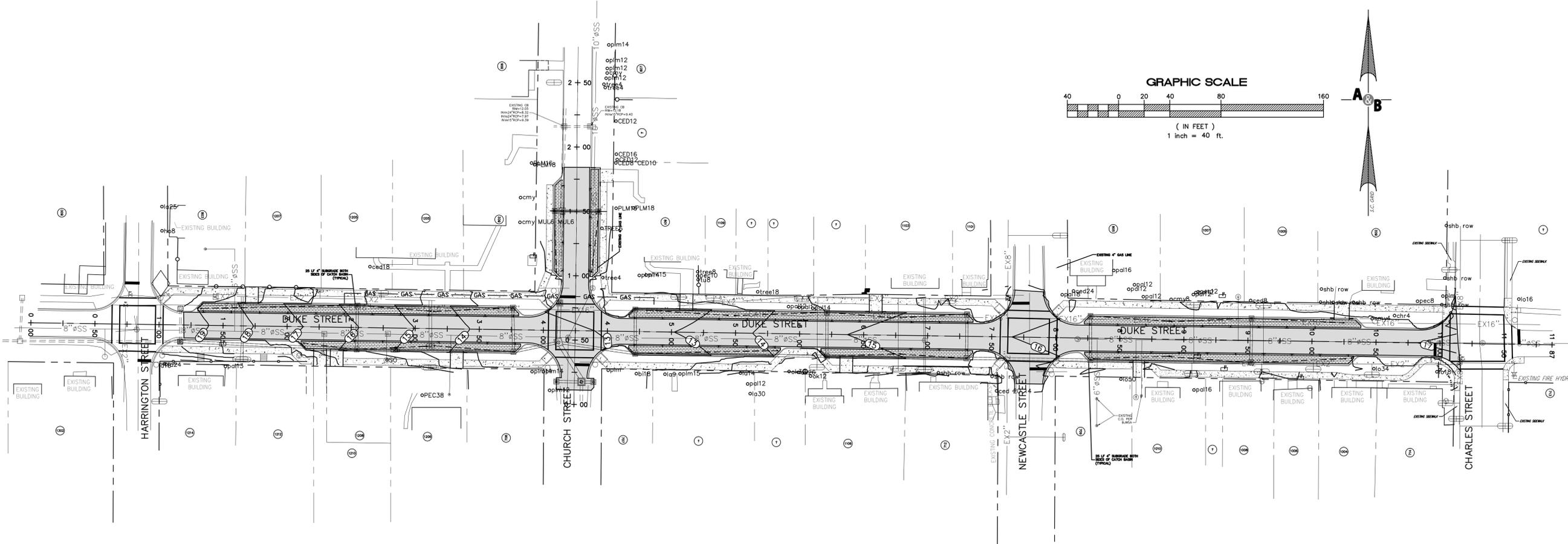
Site Development Plan
For
Duke Street
Phase 2
City of Beaufort
Beaufort County, SC

Paving, Grading
and Drainage
Plan

Date Drawn: 07/05/13
Last Revised: 04/25/14
Drawn By: R. Crosby
Engineer: S. Andrews

SHEET #:
7

JOB: 135001



DUKE STREET PROFILE

SCALE: VERT 1"=4' HORZ 1"=40'

PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS		
NO.	DESCRIPTION:	DATE:
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Engineering & Surveying

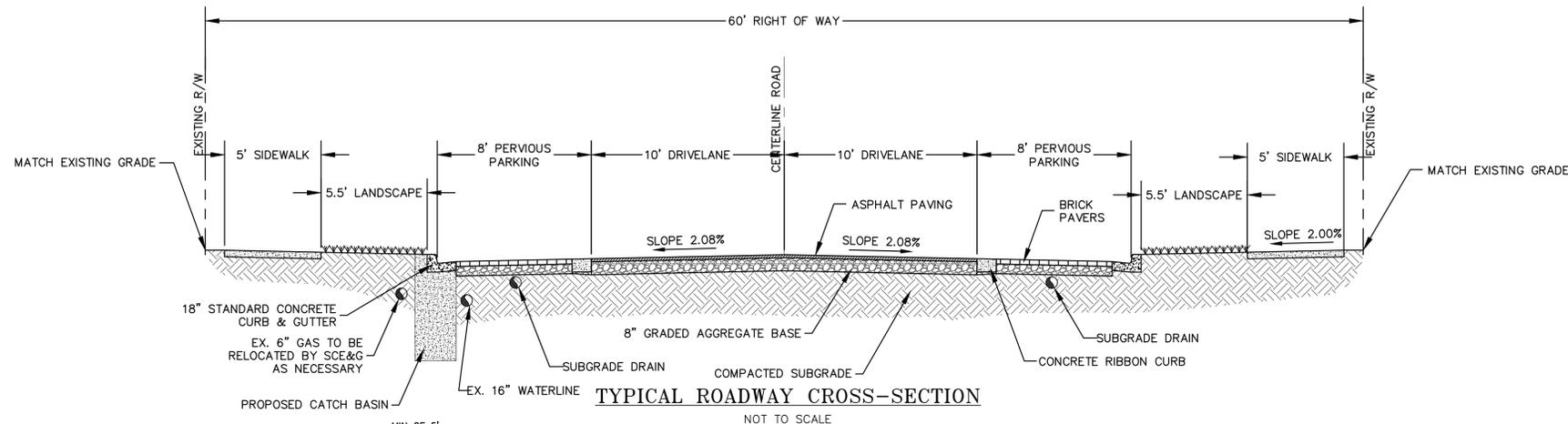
Site Development Plan
For
Duke Street
Phase 2
City of Beaufort
Beaufort County, SC

Duke Street
Plan/Profile

Date Drawn: 07/05/13
Last Revised: 04/25/14
Drawn By: R. Crosby
Engineer: S. Andrews

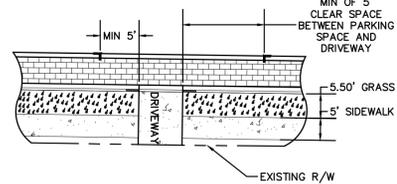
SHEET #:
8

JOB: 135001



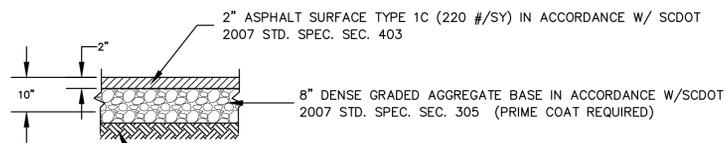
TYPICAL ROADWAY CROSS-SECTION

NOT TO SCALE



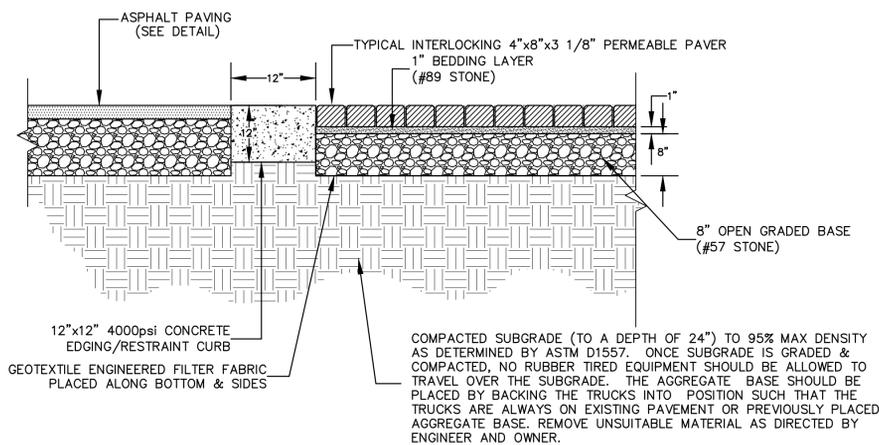
TYPICAL STRIPING AT DRIVEWAY LOCATIONS

N.T.S.



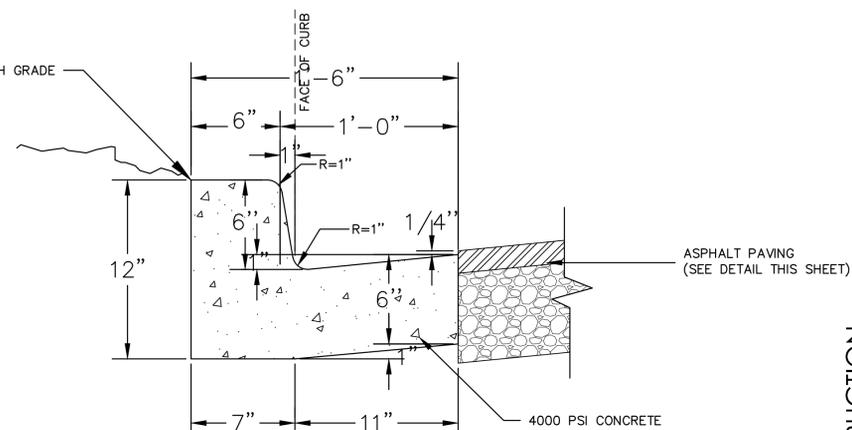
HEAVY DUTY ASPHALT PAVING DETAIL

N.T.S.



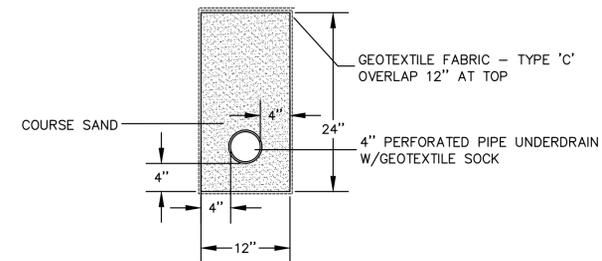
TYPICAL CROSS SECTION PERVIOUS BRICK PAVERS

N.T.S.



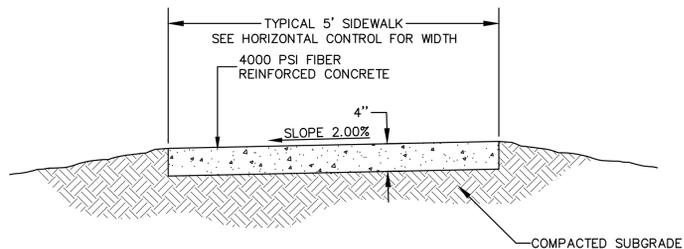
TYPICAL CROSS SECTION 1'-6" CURB & GUTTER

N.T.S.



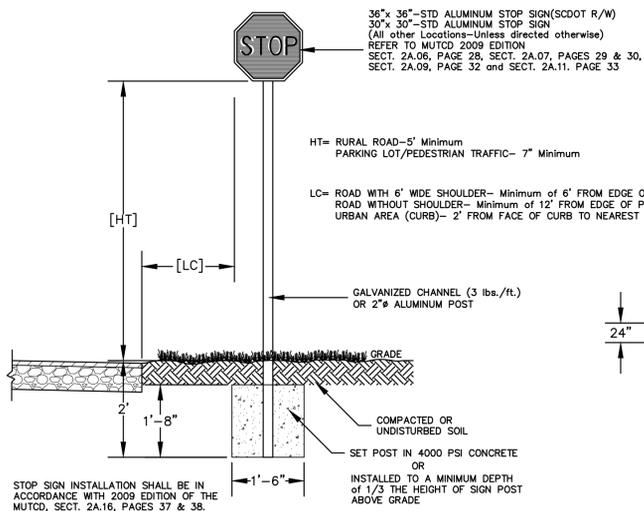
TYPICAL SUBGRADE DRAIN DETAIL

N.T.S.



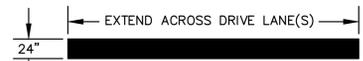
TYPICAL SIDEWALK DETAIL

N.T.S.



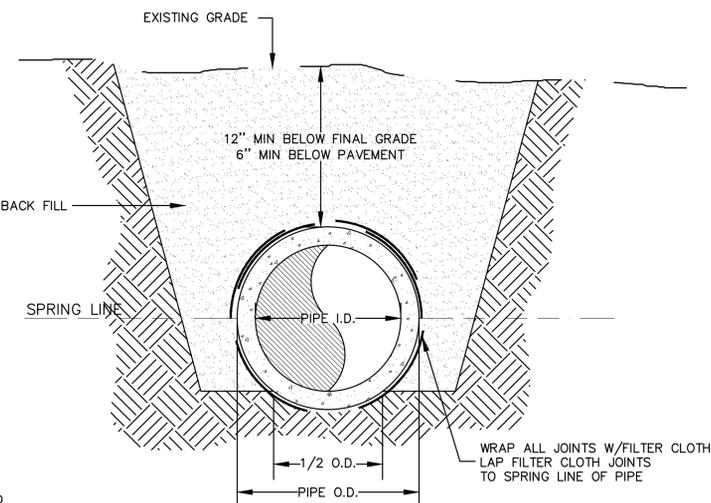
DETAIL-TYPICAL STOP SIGN

N.T.S.



STOP BAR DETAIL

N.T.S.



TYPICAL STORM SEWER PIPE BEDDING DETAIL

N.T.S.

PLAN REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	CHANGED PAVEMENT BASE TO 8"	6/25/14	RL
2	CHANGED RIBBON CURB TO 12" X 12"		
3			
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REGISTERED PROFESSIONAL ENGINEER
 SOUTH CAROLINA
 NO. 12860

REGISTERED PROFESSIONAL ENGINEER
 SOUTH CAROLINA
 NO. 00008

40A Shanklin Road
 Beaufort, SC 29906
 843.466.0369
 Fax 843.466.9766

Andrews & Burgess Inc.
 Engineering & Surveying

Site Development Plan
 For
 Duke Street
 Phase 2
 City of Beaufort
 Beaufort County, SC

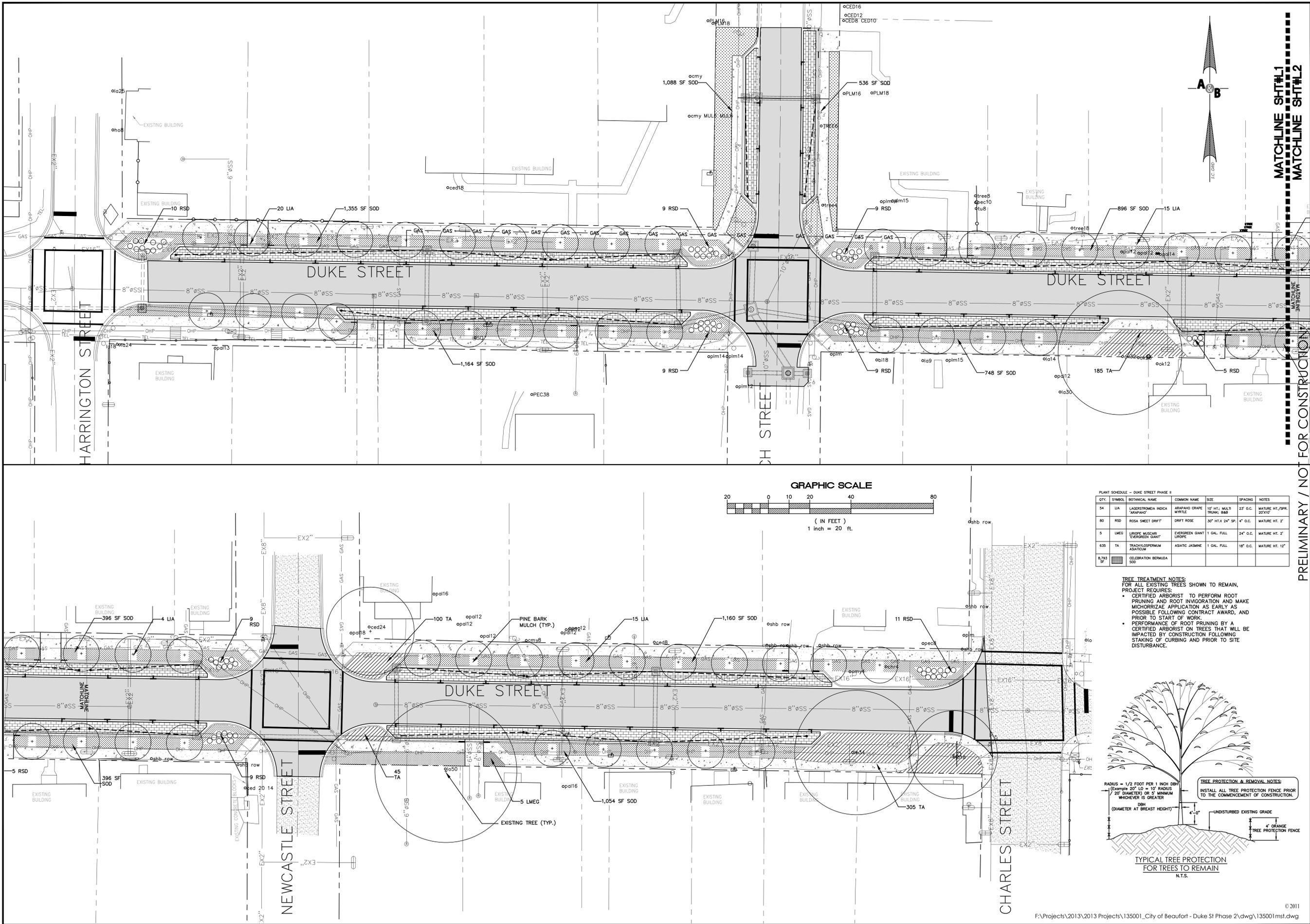
Site
 Details I

Date Drawn: 07/05/13
 Last Revised: 06/25/14
 Drawn By: R. Crosby
 Engineer: S. Andrews

SHEET #:
9

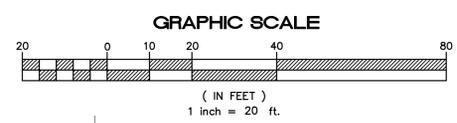
JOB: 135001

PRELIMINARY / NOT FOR CONSTRUCTION



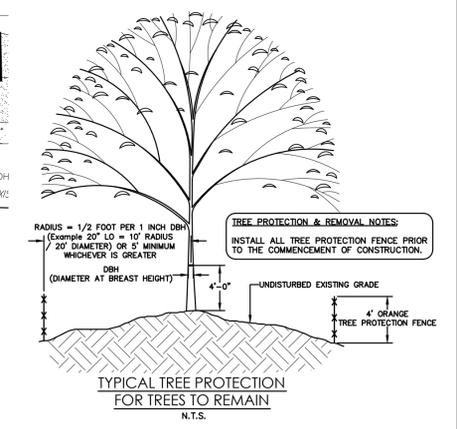
MATCHLINE SHT#1
MATCHLINE SHT#2

PRELIMINARY / NOT FOR CONSTRUCTION

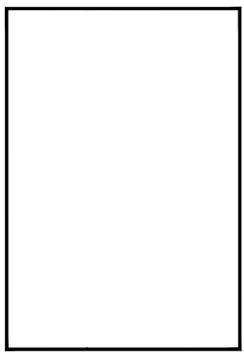


QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NOTES
54	LIA	LAGERSTROMIA INDICA "ARAPAH0"	ARAPAH0 GRAPE MYRTLE	10' HT.; MULTI TRUNK; BAB	25' O.C.	MATURE HT./SPR. 20'x10'
80	RSD	ROSA SWEET DRIFT	DRIFT ROSE	30" HT. X 24" SP.	4' O.C.	MATURE HT. 2'
5	LMEG	LIROPE MUSCARI "EVERGREEN GIANT"	EVERGREEN GIANT LIROPE	1 GAL. FULL	24" O.C.	MATURE HT. 2'
635	TA	TRACHYLOSPERMUM ASIATICUM	ASIATIC JASMINE	1 GAL. FULL	18" O.C.	MATURE HT. 12'
8,793	SOD	CELEBRATION BERMUDA	SOD			

TREE TREATMENT NOTES:
FOR ALL EXISTING TREES SHOWN TO REMAIN, PROJECT REQUIRES:
 • CERTIFIED ARBORIST TO PERFORM ROOT PRUNING AND ROOT INVIGORATION AND MAKE MICORRHIZAE APPLICATION AS EARLY AS POSSIBLE FOLLOWING CONTRACT AWARD, AND PRIOR TO START OF WORK.
 • PERFORMANCE OF ROOT PRUNING BY A CERTIFIED ARBORIST ON TREES THAT WILL BE IMPACTED BY CONSTRUCTION FOLLOWING STAKING OF CURBING AND PRIOR TO SITE DISTURBANCE.



PLAN REVISIONS	
NO.	DESCRIPTION
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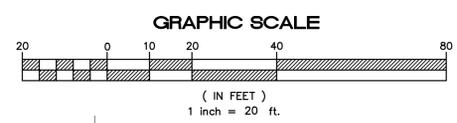
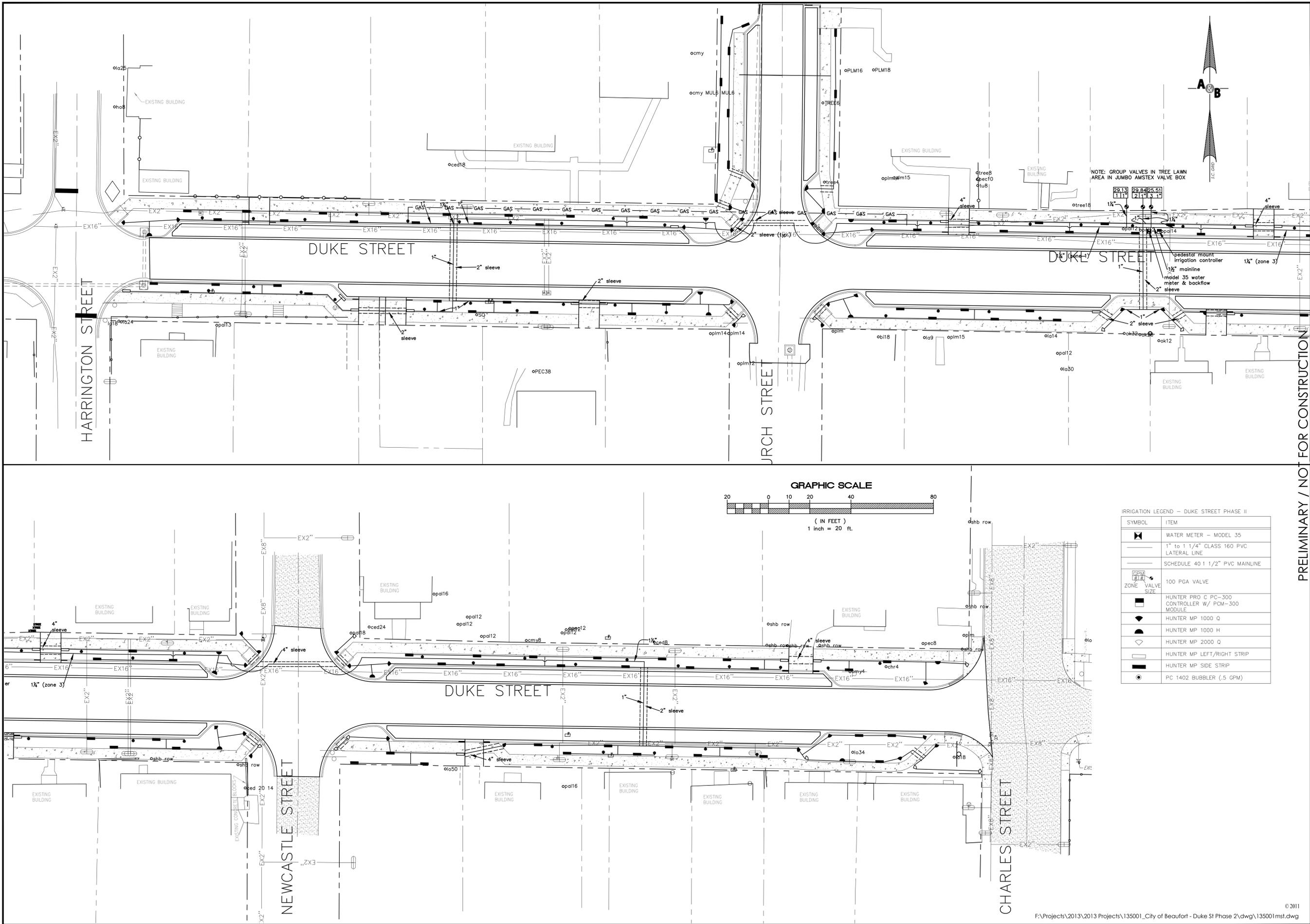
Site Development Plan
For
Duke Street
Phase 2
City of Beaufort
Beaufort County, SC

Landscape
Plan

Date Drawn: 07/05/13
Last Revised: 04/25/14
Drawn By: R. Crosby
Engineer: S. Andrews

SHEET #:
L1

JOB: 135001



IRRIGATION LEGEND - DUKE STREET PHASE II

SYMBOL	ITEM
	WATER METER - MODEL 35
	1" to 1 1/4" CLASS 160 PVC LATERAL LINE
	SCHEDULE 40 1 1/2" PVC MAINLINE
	100 PGA VALVE
	HUNTER PRO C PC-300 CONTROLLER W/ PCM-300 MODULE
	HUNTER MP 1000 Q
	HUNTER MP 1000 H
	HUNTER MP 2000 Q
	HUNTER MP LEFT/RIGHT STRIP
	HUNTER MP SIDE STRIP
	PC 1402 BUBBLER (.5 GPM)

PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
1			
2			
3			
4			
5			
6			
7			
8			

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 843.379.2222
 Fax 843.379.2223

Andrews & Burgess Inc.
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Site Development Plan
 For
 Duke Street
 Phase 2
 City of Beaufort
 Beaufort County, SC

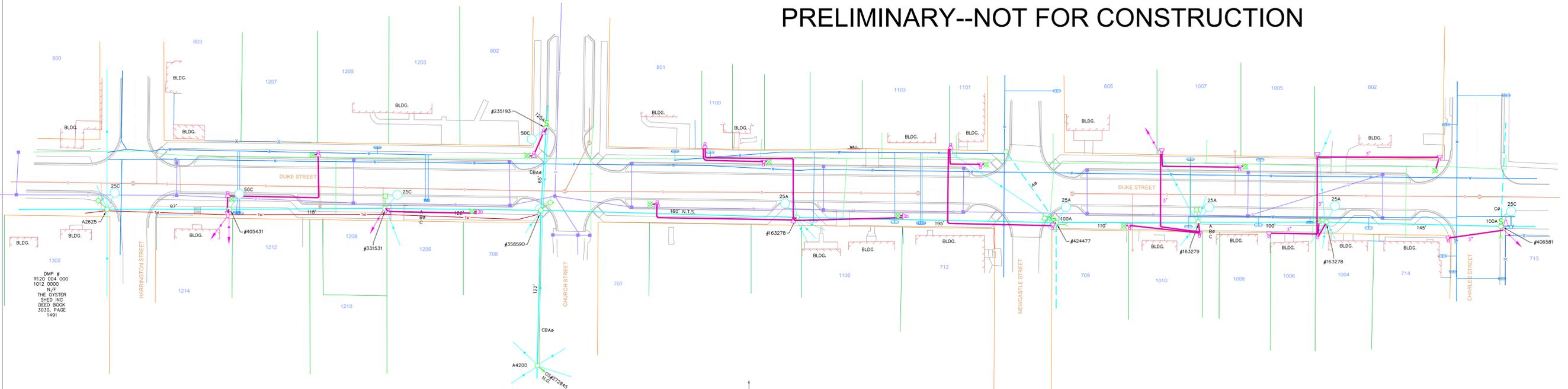
Irrigation
 Plan

Date Drawn: 07/05/13
 Last Revised: 04/25/14
 Drawn By: R. Crosby
 Engineer: S. Andrews

SHEET #:
L2

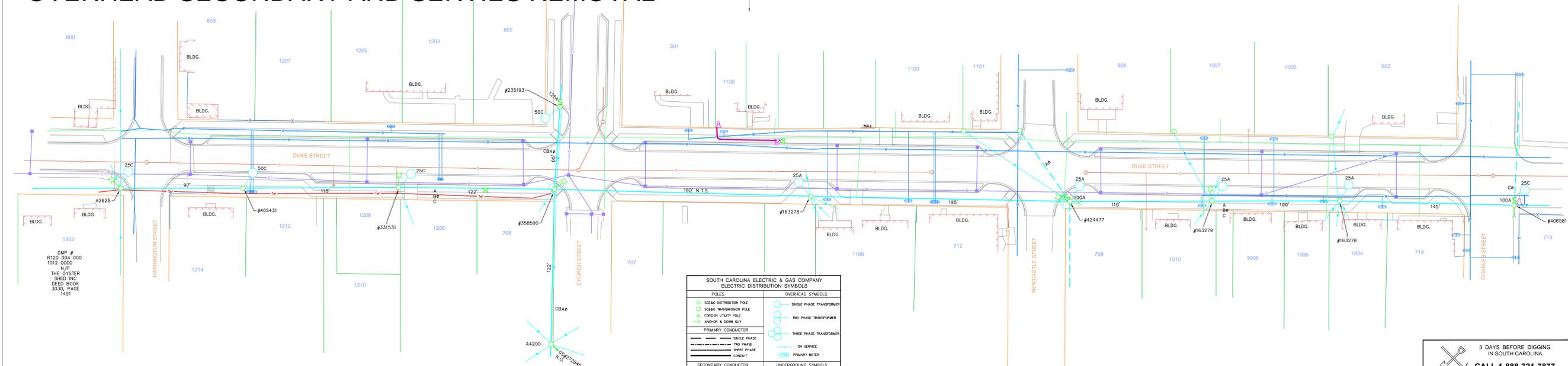
JOB: 135001

PRELIMINARY--NOT FOR CONSTRUCTION



UNDERGROUND SECONDARY & LIGHTING INSTALLATION

OVERHEAD SECONDARY AND SERVICES REMOVAL



PRELIMINARY--NOT FOR CONSTRUCTION



SOUTH CAROLINA ELECTRIC & GAS COMPANY ELECTRIC DISTRIBUTION SYMBOLS	
POLES	OVERHEAD SYMBOLS
SC&G DISTRIBUTION POLE	SINGLE PHASE TRANSFORMER
SC&G TRANSMISSION POLE	TWO PHASE TRANSFORMER
FOREIGN UTILITY POLE	THREE PHASE TRANSFORMER
ANCHOR & DOWN OUT	OH SERVICE
PRIMARY CONDUCTOR	PRIMARY METER
SINGLE PHASE	UNDERGROUND SYMBOLS
TWO PHASE	SINGLE PHASE PAD MOUNTED TRANSFORMER
THREE PHASE	THREE PHASE PAD MOUNTED TRANSFORMER
CONDUIT	TRIPLEX
SECONDARY CONDUCTOR	QUADRUPLEX
DUPLEX	SECTIONALIZING FUSES & SWITCHES
TRIPLEX	OUTLET
QUADRUPLEX	OIL CIRCUIT BREAKER
SECTIONALIZING FUSES & SWITCHES	BLADE SWITCH
OUTLET	LOOP CABINET
OIL CIRCUIT BREAKER	US SERVICE
BLADE SWITCH	SECONDARY FEDERAL/HANDHOLE
LOOP CABINET	"T" FOR PERMANENT
US SERVICE	"Y" FOR TEMPORARY
SECONDARY FEDERAL/HANDHOLE	SC&G SWITCH
"T" FOR PERMANENT	LIGHTING
"Y" FOR TEMPORARY	STREET LIGHT
SC&G SWITCH	FLOOD LIGHT
LIGHTING	HAT BOX LIGHT
STREET LIGHT	ORNAMENTAL LIGHT
FLOOD LIGHT	SHADE BOX LIGHT
HAT BOX LIGHT	ORNAMENTAL LIGHT
ORNAMENTAL LIGHT	SHADE BOX LIGHT

EXAMPLES OF TYPICAL SYMBOL SCHEMES ARE AS FOLLOWS:
 FACILITIES TO BE INSTALLED REPRESENTED BY "X" OR "Y" INSIDE THE SYMBOL.
 FACILITIES TO BE REMOVED REPRESENTED BY A FULL SOLID FILL SYMBOL.
 ALWAYS REFER TO CONSTRUCTION NOTES FOR A COMPLETE DESCRIPTION.

EXISTING POLE INSTALL POLE REPLACE POLE REMOVE POLE

EXISTING PAD MOUNT TRANSFORMER INSTALL PAD MOUNT TRANSFORMER
 REMOVE PAD MOUNT TRANSFORMER REMOVE PAD MOUNT TRANSFORMER

THIS INDICATES THE LOCATION OF A TRANSMISSION OR PRIMARY DISTRIBUTION LINE CROSSING FOLLOW "SAFETY" PRECAUTIONS.

MISCELLANEOUS UTILITIES:
 -C- CABLE TV -F- FIRE ALARM -S- SMOKE EXHAUST
 -D- DRAIN -G- GAS MAIN -M- METER MAIN
 -E- ELEVATOR -P- PUMP MAIN -T- TELEPHONE CABLE
 -I- IRIGATION -W- WATER MAIN

STANDARD SC&G DISTRIBUTION RIGHT OF WAY: OVERHEAD ELECTRIC IS 10' EACH SIDE OF THE POLE. UNDERGROUND ELECTRIC IS 3' EACH SIDE OF THE CABLE. PAD MOUNTED EQUIPMENT IS 12' AROUND THE PERIMETER OF THE EQUIPMENT.

RIGHT OF WAY INFORMATION	
RW AGENT	JAY GARDNER
FILE NUMBER	
EASEMENT NO.	

W.O.#	1011	W.R.#	
STARTED		BY:	
COMPLETED		BY:	
CLOSED OUT		BY:	
COORDINATOR	K. ACKERMAN		
ELECTRIC ENG.-TECH.	KERRY BLUNTON		
GAS ENG.-TECH.			

NO.	DATE	BY	REVISION

SOUTH CAROLINA ELECTRIC & GAS CO.			
TITLE	DUKE STREET STREETScape - PHASE 2	DATE	12/06/13
DETAIL	OVERHEAD TO UNDERGROUND SECONDARY SERVICES	CKT#	60322
SUB.	BEAUFORT CENTRAL SUB. (14) 12.47KV	DIST#	60
SCALE	1"=30'	D-80385	
APP	JL.BROOKS	080385-02.DWG	SHEET 2 OF 2

3 DAYS BEFORE DIGGING
IN SOUTH CAROLINA
CALL 1-888-721-7877
PALMETTO UTILITY PROTECTION SERVICE
ALL SC&G FACILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. FINAL LOCATIONS ARE DETERMINED AT THE TIME OF INSTALLATION BY A SC&G REPRESENTATIVE.

DEVELOPER'S SIGNATURE BLOCK
DEVELOPER HEREBY APPROVES THIS LAYOUT FOR CONSTRUCTION AND CERTIFIES THAT HE/SHE HAS THE AUTHORITY TO DO SO. ANY CHANGE AFFECTING THIS LAYOUT MUST BE REPORTED IMMEDIATELY TO SC&G. ALL COST ASSOCIATED WITH ANY REQUESTED CHANGE OR INSUFFICIENT FINAL GRADE INFORMATION WILL BE BORNE BY THE DEVELOPER. SC&G POLICY, STATE AND LOCAL LAW, AS WELL AS REGULATORY RESTRICTIONS AT THE TIME OF CONSTRUCTION WILL PREVAIL. DEVELOPER CERTIFIES THAT HE/SHE HAS REVIEWED THE SC&G DEVELOPERS HANDBOOK AND ALL REQUIREMENTS LISTED IN THE HANDBOOK UNDER DEVELOPER RESPONSIBILITY MUST BE MET BEFORE CONSTRUCTION CAN BE SCHEDULED.

APPROVED BY: _____ (SIGNATURE)
TITLE AND COMPANY: _____ (PRINT NAME)
DATE: _____

H:\AutoCAD Files\DUKE ST 12_06_13.dwg - Scale=30 - Plotted By: K810394 - Plotted: Dec 06, 2013 - 3:11pm

HARGRAY ENGINEERING SERVICES

PROJECT: DUKE STREET RELOCATION CONDUIT
HARRINGTON TO CHARLES ST.

W/O# 400000000 Sheet 001 Of 1

Contract Type local

Contractor LOCAL

	BY	DATE	
CONDUIT:	RC	4/23/14	Area = BEAUFORT
RELEASED:			LeadRt =
AS BUILT:			0
TRANS TO MAP:			Map No. = 21000220
			DScale = 80

NOTE: CONTRACTOR TO LOCATE ALL UTILITIES

