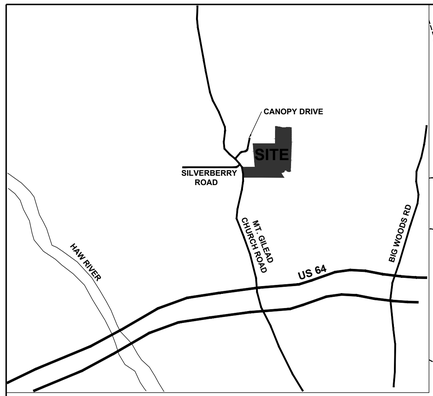
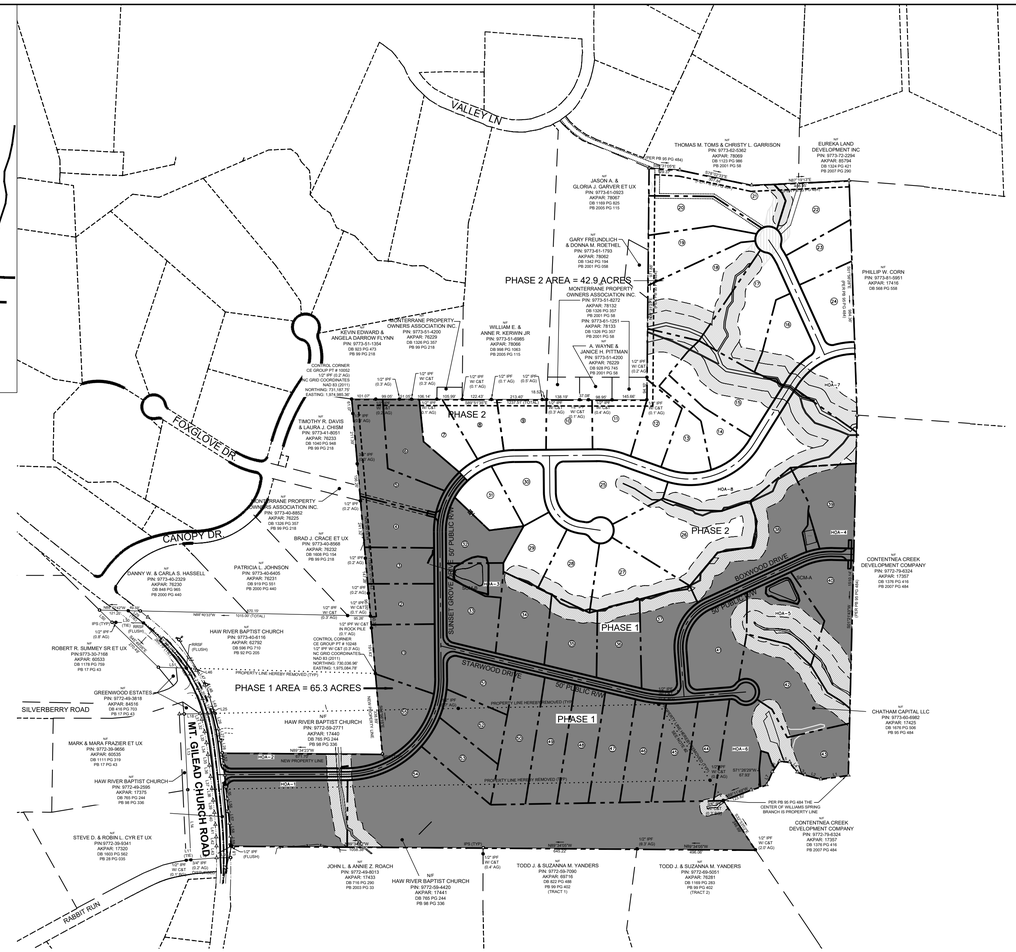



## VICINITY MAP
N.T.S.

NORTH




GRAPHIC SCALE

( IN FEET )
1 inch = 300 ft.

## SUMMARY INFORMATION

| | |
|---|---|
| DEVELOPMENT NAME: | SUNSET GROVE SUBDIVISION - PHASE 2 |
| CASE NUMBER: | |
| TRANSACTION NUMBER: | |
| OWNER/DEVELOPER: | CHATHAM CAPITAL, LLC<br>400 MARKET STREET<br>CHAPEL HILL, NC 27516<br>PH: 919-414-2047 |
| CHATHAM COUNTY PIN: | 9773-60-1790 |
| ZONING DISTRICT: | R-1, COUNTY ZONING |
| DEED BOOK/PAGE - DEED DATE: | 1676/0506 - 2013<br>765/0244 - 1998 |
| TOTAL ACREAGE: | 108.8 ACRES |
| PROPOSED USE: | SINGLE FAMILY SUBDIVISION |
| PHASE 2 TOTAL ACREAGE: | 42.9 ACRES |
| PHASE 2 LOT DATA: | |
| TOTAL LOTS IN PHASE 2: | 25 LOTS + 2 HOA LOTS |
| RESIDENTIAL DENSITY: | 0.58 DU/ACRE |
| MIN. SQUARE FOOTAGE: | 40,023 S.F. |
| MAX. SQUARE FOOTAGE: | 129,246 S.F. |

## SHEET INDEX


| | |
|---|---|
| C-0 | COVER SHEET |
| C-1 | NCDOT NOTES |
| C-2 | EXISTING CONDITIONS |
| C-3 | SITE PLAN |
| C-4 | GRADING AND STORM DRAINAGE |
| C-4A | SCM-C CROSS SECTION & DETAILS |
| C-5 | INITIAL CLEARING AND GRUBBING PLAN |
| C-5A | INITIAL CLEARING AND GRUBBING PLAN - ROADWAY |
| C-5B | INITIAL CLEARING AND GRUBBING PLAN - ROADWAY |
| C-5C | EROSION CONTROL PLAN |
| C-5D | EROSION CONTROL - ROADWAY |
| C-5E | EROSION CONTROL - ROADWAY |
| C-6 | UTILITIES PLAN |
| PP-1 | PLAN & PROFILE |
| PP-2 | PLAN & PROFILE |
| PP-3 | PLAN & PROFILE |
| PP-4 | PLAN & PROFILE |
| PP-5 | PLAN & PROFILE |
| PP-6 | PLAN & PROFILE |
| D-1 | DETAILS |
| D-2 | DETAILS |
| D-3 | DETAILS |
| D-4 | DETAILS |
| D-5 | DETAILS |


| PUBLIC IMPROVEMENT QUANTITIES - PHASE 2 ONLY | |
|---|---|
| PHASE NUMBER | 2 |
| NUMBER OF LOTS | 25 RESIDENTIAL LOTS + 2 HOA LOTS |
| LOT NUMBERS BY PHASE | 7-31 |
| NUMBER OF UNITS | 25 |
| LIVABLE BUILDINGS | 25 |
| OPEN SPACE | NO |
| NUMBER OF OPEN SPACE LOTS | 0 |
| PUBLIC WATER (LF) | 4592 LF |
| PUBLIC SEWER (LF) | 0 LF |
| PUBLIC STREET (LF) | 2841 LF |
| PUBLIC SIDEWALK (LF) | 0 LF |
| EXIST. PUBLIC STREET IMPROVE. (LF) | 0 LF |
| NEW STREET CONSTRUCTION (LF) | 2841 LF |
| STREET SIGNS (EA) | 2 EA |

## FINANCIALLY RESPONSIBLE PERSON/AGENT

PERSON TO CONTACT SHOULD SEDIMENT CONTROL ISSUES ARISE DURING LAND-DISTURBING ACTIVITY.

| | |
|---|---|
| CHATHAM CAPITAL, LLC<br>NAME OF FIRM | SARAH O'BRIEN<br>NAME OF CONTACT |
| sarah.bpropnc@gmail.com<br>EMAIL ADDRESS | 919-933-4422<br>PHONE NUMBER |

PERSON(S) FIRM(S) FINANCIALLY RESPONSIBLE FOR THIS LAND-DISTURBING ACTIVITY.

| | |
|---|---|
| CHATHAM CAPITAL, LLC<br>NAME OF PERSON/FIRM | SARAH O'BRIEN<br>NAME OF CONTACT |
| 400 MARKET STREET, SUITE 115<br>MAILING ADDRESS | 400 MARKET STREET, SUITE 115<br>STREET ADDRESS |
| CHAPEL HILL, NC 27516<br>CITY, STATE, ZIP CODE | CHAPEL HILL, NC 27516<br>CITY, STATE, ZIP CODE |

TOTAL DISTURBED AREA - 11.07 ACRES
NOTE: TOTAL DISTURBED AREA
INCLUDES OFF SITE UTILITY CONNECTIONS

## NOTES

1. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH ALL CHATHAM COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL STREETS SHOWN ON THESE PLANS SHALL HAVE THE FULL WIDTH OF THE RIGHT-OF-WAY CLEARED AND GRADED WITHIN 50 FEET OF ALL STREET INTERSECTIONS.
3. BOUNDARY SURVEY PROVIDED BY CE GROUP, DATED FEBRUARY 2016.
4. TOPOGRAPHIC MAPPING PROVIDED BY SULLIVAN SURVEYING, 1143 D EXECUTIVE CIRCLE, CARY, NC 27511 (919-469-4738), DATED FEBRUARY 2016 AND AUGMENTED BY CHATHAM COUNTY GIS. ALL BEARINGS ARE NC GRID BEARINGS, NAVD 88 DATUM UTILIZED. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
5. ANY LOCATION OF LANDSCAPING WILL BE FIELD COORDINATED BY THE DEVELOPER TO ELIMINATE CONFLICTS.
6. THE DEVELOPER WILL NOT INSTALL STREET LIGHTS.
7. ALL NEW UTILITY LINES MUST BE UNDERGROUND.
8. THE CONTRACTOR IS RESPONSIBLE FOR ANY CONFLICTS WITH EXISTING OR PROPOSED UTILITIES, TRAFFIC SIGNAL DEVICES, UTILITY POLES, STREET SIGNS, ETC.
9. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS/HER ACTIVITIES. CALL UTILITY LOCATING SERVICE 72 HOURS PRIOR TO DIGGING AT 1-800-632-4949.
10. ALL OPEN SPACE NOT OWNED WITHIN AN INDIVIDUAL LOT SHALL BE MAINTAINED BY THE SUBDIVISION HOMEOWNERS ASSOCIATION.
11. THE MINIMUM CORNER CLEARANCE FROM THE CURB LINE OR EDGE OF PAVEMENT OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY OF THE RADIUS CURVATURE, OR TWENTY (20) FEET FROM THE INTERSECTION OF RIGHT OF WAY LINES, WHICHEVER IS GREATER. THE RADIUS OF THE DRIVEWAY SHALL NOT ENCROACH ON THE MINIMUM CORNER CLEARANCE.
12. WITHIN THE AREA OF A DEFINED SIGHT TRIANGLE, THE AREA SHALL BE CLEAR OF OBSTRUCTIONS GREATER THAN FORTY-EIGHT (48) INCHES IN HEIGHT AS MEASURED FROM THE SURFACE ELEVATION OF ADJACENT DRIVEWAY OR ROADWAY. SIGHT DISTANCE TRIANGLES ARE DENOTED ON PLANS AS 10'X70' AND ARE TO BE RECORDED AT THE REGISTER OF DEEDS.
13. PARKING REQUIRED BY DETACHED HOMESITES WILL BE PROVIDED IN THEIR GARAGES AND ON THEIR OWN DRIVEWAYS. ON-STREET PARKING AREAS ARE NOT SPECIFICALLY PROVIDED.
14. CONTRACTOR IS RESPONSIBLE FOR LOCATION AND CONTINUAL SERVICE FOR ALL EXISTING SERVICES THAT ARE TO REMAIN ON THE PROPERTY.
15. THE CONTRACTOR SHALL VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
16. ALL WATERLINE VALVES AND OTHER APPURTENANCES SHALL BE LOCATED OUTSIDE THE PAVEMENT AND DITCHES AND AS CLOSE TO THE RIGHT OF WAY AS POSSIBLE. NOTE GATE VALVES SHALL BE LOCATED OUTSIDE OF PAVEMENT AND NOT IMMEDIATELY AT THE EDGE OF PAVEMENT.

## CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER AND WITH A MINIMUM AMOUNT OF INCONVENIENCE TO TRAFFIC.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL ADHERE TO THE PROVISION OF THE MUTCD (THE MOST CURRENT EDITION).
3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A MEETING WITH THE COUNTY'S PUBLIC WORKS DEPARTMENT AND NCDOT TRANSPORTATION OPERATIONS DIVISION TO REVIEW THE SPECIFIC COMPONENTS OF THE PLAN AND OPERATION OF THESE FACILITIES DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN A LANE CLOSURE PERMIT FOR ANY WORK WHICH REQUIRES THE CLOSURE OF A TRAVEL LANE FROM NCDOT AT LEAST 48 HOURS IN ADVANCE AND FOR STREET CLOSURES, AT LEAST 2 WEEKS IN ADVANCE. PROVIDE EXACT LOCATION, CROSS STREET, DATES FOR LANE CLOSURE. CONTACT PERSON AND FAX NUMBER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COUNTY INSPECTIONS DEPARTMENT FOR COORDINATION OF WORK.
6. PRIOR TO CONSTRUCTION BEGINNING, ALL SIGNAGE AND TRAFFIC CONTROL SHALL BE IN PLACE.
7. THE CONTRACTOR SHALL REPAIR ALL DRIVEWAYS, DRIVEWAY PIPES, CURB AND GUTTER, MAILBOXES, SIGNS, LANDSCAPING, SIDEWALK AND STREET TO EXISTING CONDITION OR BETTER.

## ACTIVITY NARRATIVE

THE DEVELOPER'S INTENT IS TO CREATE A SUBDIVISION WITHIN THIS PARCEL THAT RETAINS THE NATURAL VIEWS OF THE SITE INCLUDING BUFFER SPACE, CREEKS AND OTHER NATURAL AREAS. THE DEVELOPMENT IS AIMED AT MAINLY OVERSIZED LOTS FOR THE DEVELOPMENT OF A COMMUNITY, BUT STILL PROVIDES ISOLATION TO THOSE WISHING TO LIVE ON A VERY PRIVATE PARCEL.


B&F CONSULTING
2805 Tobermory Lane
Raleigh, NC 27606
Phone No. (919) 618-0180
License No. C-2149


NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027445 AMBER FARRELL

**REVISIONS**

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

**PROJECT INFORMATION**

| | |
|---|---|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

**PROJECT NAME**

SUNSET GROVE SUBDIVISION PHASE 2

CHATHAM COUNTY NORTH CAROLINA

**DEVELOPER**

CHATHAM CAPITAL LLC

400 MARKET STREET
CHAPEL HILL, NC 27516

**SHEET NAME**

**COVER SHEET**

**DRAWING SCALE**

AS SHOWN

**PLAN SET**

CONSTRUCTION DRAWINGS

**DATE**

3-8-2019

**SHEET NUMBER**

COVER

## GENERAL NOTES

### 2012 NCDOT STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES - ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated 2012 are applicable to this project and by reference hereby are considered a part of these plans:

| STD.NO. | TITLE |
|---|---|
| 200.02 | Method of Clearing - Method II |
| 225.02 | Guide for Grading Subgrade - Secondary and Local |
| 225.04 | Method of Obtaining Superelevation - two lane pavement |
| 225.06 | Method of Grading Sight Distance at Intersections |
| 560.01 | Method of Shoulder Construction |
| 654.01 | Pavement Repairs |
| 700.05 | Tying Proposed Pavement to Existing Pavement |
| 838.01 | Concrete Endwall for Single and Double Pipe Culverts |
| 838.45 | Notes for Reinforced Concrete Endwall |
| 840.14 | Concrete Drop Inlet |
| 840.15 | Brick Drop Inlet |
| 840.16 | Drop Inlet Frame and Grates |
| 840.19 | Concrete Grated Drop Inlet Type 'D' |
| 840.20 | Frames and Wide Slot Flat Grates |
| 862.01 | Guardrail Placement |
| 862.02 | Guardrail Installation |
| 862.03 | Structure Anchor Units |

| STD.NO. | TITLE |
|---|---|
| 876.01 | Rip Rap in Channels |
| 876.02 | Guide for Rip Rap at Pipe Outlets |
| 876.04 | Drainage Ditches with Class "B" Rip Rap |
| 1101.01 | Work Zone Advance Warning Signs For Facilities < 55 MPH |
| 1101.02 | Temporary Lane Closures 2-Lane, 2-Way Roadway, 1 Lane Closed |
| 1101.02 | Temporary Lane Closures - Lane Markings |
| 1101.11 | Traffic Control Design Tables - Sign Spacing |
| 1110.01 | Stationary Work Zone Signs |
| 1135.01 | Cones |
| 1150.01 | Flagging Devices |
| 1205.01 to 1205.09 | Pavement Markings |
| 1250.01 to 1253.01 | Raised Pavement Markers |
| 1261.01 to 1262.02 | Guardrail & Barrier Deliniators |
| 1264.01 | Object Markers Types |
| 1264.02 | Object Markers Installation |
| 1605.01 | Temporary Silt Fence |
| 1607.01 | Gravel Construction Entrance |
| 1622.01 | Guide for Temporary Berms and Slope Drain |
| 1630.02 | Silt Basin Type B |
| 1630.03 | Temporary Silt Ditch |
| 1630.05 | Temporary Diversions |
| 1631.01 | Matting Installation |
| 1632.03 | Rock Inlet Sediment Trap Type C |
| 1633.02 | Temporary Rock Silt Check Type B |
| 1640.01 | Coir Fiber Baffle |

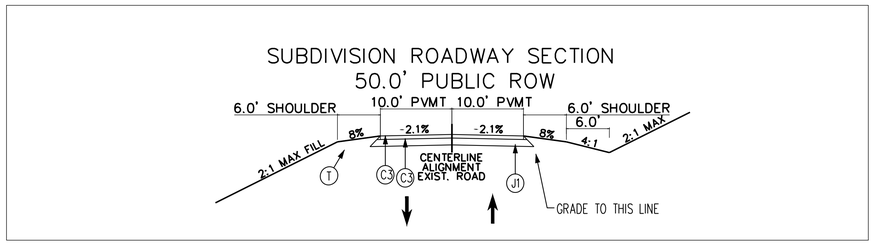
## EXISTING SURVEY NOTES:

1. ALL EASEMENTS ARE CENTERED ON EXISTING STRUCTURES UNLESS OTHERWISE NOTED.
2. AREAS COMPUTED BY COORDINATE METHOD.
3. ALL DISTANCES ARE HORZIONTAL GROUND DISTANCES MEASURED IN SURVEY FEET.
4. THIS SURVEY DONE WITHOUT THE BENEFIT OF A TITLE AND IS SUBJECT TO ANY FACTS WHICH MAY BE DISCLOSED BY A FULL TITLE SEARCH.
5. ANY POINT NOTED AS "CONTROL CORNER" SHALL NOT BE DEEMED MORE OR LESS RELIABLE THAN ANY OTHER POINT SHOWN HEREON.
6. NAD 83 NC GRID COORDINATES AND MSL ELEVATIONS TAKEN FROM DATA PROVIDED BY SULLIVAN SURVEYING, DATED 2013-2014.
7. THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY AND CONFORMS TO NCGS 47-30 STANDARDS.

## PROJECT NOTES:

1. SAWCUT AND REMOVE EXISTING PAVEMENT (FULL DEPTH) TO PROVIDE STRAIGHT LATERAL AND LONGITUDINAL JOINTS TO TIE IN PROPOSED WIDENING WHERE REQUIRED.
2. FOR DETAILS, REFERENCE LIST OF 2012 NCDOT ROADWAY STANDARD DRAWINGS AS LISTED ON THIS SHEET.
3. MINIMUM CLEARANCE FROM CURB LINE OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY.
4. WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN, NO OBSTRUCTION BETWEEN TWO (2) FEET AND EIGHT (8) FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION OR THE NEAREST TRAVELED WAY, IF NO CURBING EXISTS.
5. THE CONTRACTOR WILL COORDINATE WITH ALL EXISTING UTILITIES TO ENSURE THAT THE PROJECT WORK HAS NO IMPACT ON EXISTING FACILITIES.

| PAVEMENT SCHEDULE | |
|---|---|
| C3 | PROP. 2.0" MIN. ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD., IN EACH OF TWO LIFTS |
| D1 | PROP. 4" MIN. ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| J1 | PROP. 8" AGGREGATE BASE COURSE. |
| T | PROP. EARTH MATERIAL. |




## CONSTRUCTION SEQUENCE

1. Schedule a preconstruction conference with the Chatham County Lead Erosion and Sediment Control Officer and Chatham County Senior Watershed Specialist, Morgan DeWit, (919-542-8268). Obtain a land-disturbing permit.
2. Install gravel construction pad, temporary diversions with ditch lining, silt fence, sediment basins, temporary pipe slopes or other measures as shown on the approved plan. Note that stream crossing shall not be installed until erosion control has been installed and inspected and approved by Chatham County, see item #5 below. Clear only as necessary to install these devices. Ensure ditch lining on temporary diversions and seed berms and basins immediately after construction.
3. Call for an onsite inspection by the Lead Erosion and Sediment Control Officer to obtain a Certificate of Compliance.
4. Add wattles in temporary diversion ditches when other erosion control is being installed, prior to clearing & grubbing. Once onsite inspection is approved, begin clearing and grubbing. Maintain erosion control devices as needed. Confirm installation of wattles in ditch lines as indicated on the plans. Note that additional wattles may be required based on performance of the installation.
5. Install stream culvert at Sunset Grove Drive roadway stream crossing. Begin earthwork operations in conjunction with the construction of the permanent culvert.
   a. All excavation shall be performed only in dry or isolated areas of the work zone.
   b. Install upstream pump and flexible piping for pump-around. Pumps and hoses shall be of sufficient size to dewater the work area.
   c. Place upstream stream plug. Place downstream plug to protect culvert installation area. Begin pumping operations for stream diversion.
   d. Place dewatering pump as appropriate to dry out the work area between plugs as needed.
   e. Ensure any pumped water is not being contaminated with sediment loss from this site. If silt laden water is noticed, all discharge from the pump-around must be run through a sediment bag or stilling basin prior to discharge into stream.
   f. Install culvert in accordance with the plans. Culvert installation should occur in dry weather when no rain is expected for the installation timeframe.
   g. Remove pumps, temporary piping and backfill area. Stabilize disturbed area with seed per NPDES stabilization chart on sheet D-2.
6. Install storm and protect inlets with block and gravel inlet controls, sediment traps or other approved measures as shown on the plan.
7. Stabilize site as areas are brought up to finish grade with vegetation, paving, ditch linings, etc. All roadside ditches will be required to have matting and wattles as they are installed per plan sheets. Seed and mulch denuded areas per Ground Stabilization Time Frames.
8. When construction is complete call for an interim inspection by the Lead Erosion and Sediment Control Officer.
9. If site is approved, convert the temporary skimmer basin located at SCM-C. Remove and dispose of any accumulated sediment in the basins.
   a. Ensure the capacity is available in the basin with an as-built topo of the basin and forebay. Provide an as-built survey of the riser structure, barrel, dam, and emergency spillway. If the capacity is sufficient, plant the littoral shelf and close the drain valve to start accumulating water in the basin.
10. Remove temporary diversions, temporary drainage pipes, silt fence, sediment basins, etc., and seed out/stabilize any resulting bare areas relating to the new roadway construction. All remaining permanent erosion control devices, such as velocity dissipaters, should be installed.
11. When vegetation has become established, call for a final site inspection by the Lead Erosion and Sediment Control Officer. Obtain a Certificate of Completion.

## NOTES

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2. ALL STREETS SHOWN ON THESE PLANS SHALL HAVE THE FULL WIDTH OF THE RIGHT-OF-WAY CLEARED AND GRADED WITHIN 50 FEET OF ALL STREET INTERSECTIONS.
3. BOUNDARY SURVEY PROVIDED BY CE GROUP, DATED FEBRUARY 2016.
4. TOPOGRAPHIC MAPPING PROVIDED BY SULLIVAN SURVEYING, 1143 D EXECUTIVE CIRCLE, CARY, NC 27511 (919-469-4738), DATED FEBRUARY 2016 AND AUGMENTED BY CHATHAM COUNTY GIS. ALL BEARINGS ARE NC GRID BEARINGS, NAVD 88 DATUM UTILIZED. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
5. ANY LOCATION OF LANDSCAPING WILL BE FIELD COORDINATED BY THE DEVELOPER TO ELIMINATE CONFLICTS.
6. THE DEVELOPER WILL NOT INSTALL STREET LIGHTS.
7. ALL NEW UTILITY LINES MUST BE UNDERGROUND.
8. THE CONTRACTOR IS RESPONSIBLE FOR ANY CONFLICTS WITH EXISTING OR PROPOSED UTILITIES, TRAFFIC SIGNAL DEVICES, UTILITY POLES, STREET SIGNS, ETC.
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10. ALL OPEN SPACE NOT OWNED WITHIN AN INDIVIDUAL LOT SHALL BE MAINTAINED BY THE SUBDIVISION HOMEOWNERS ASSOCIATION.
11. THE MINIMUM CORNER CLEARANCE FROM THE CURB LINE OR EDGE OF PAVEMENT OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY OF THE RADIUS CURVATURE, OR TWENTY (20) FEET FROM THE INTERSECTION OF RIGHT OF WAY LINES, WHICHEVER IS GREATER. THE RADIUS OF THE DRIVEWAY SHALL NOT ENCROACH ON THE MINIMUM CORNER CLEARANCE.
12. WITHIN THE AREA OF A DEFINED SIGHT TRIANGLE, THE AREA SHALL BE CLEAR OF OBSTRUCTIONS GREATER THAN FORTY-EIGHT (48) INCHES IN HEIGHT AS MEASURED FROM THE SURFACE ELEVATION OF ADJACENT DRIVEWAY OR ROADWAY. SIGHT DISTANCE TRIANGLES ARE DENOTED ON PLANS AS 10'X70' AND ARE TO BE RECORDED AT THE REGISTER OF DEEDS.
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15. THE CONTRACTOR SHALL VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
16. NCDOT APPROVAL IS REQUIRED PRIOR TO COMMENCMENT OF WORK IN THE RIGHT OF WAY ALONG MT. GILEAD CHURCH ROAD (DRIVEWAY PERMIT AND 3-PARTY).

## NPDES INFORMATION

1. NPDES STABILIZATION CHART IS FOUND ON SHEET D-2.
2. NPDES SELF-INSPECTION NOTE:
   AS OF MARCH 10, 2003, ALL CONSTRUCTION SITES EQUAL TO OR GREATER THAN ONE DISTURBED ACRE ARE REQUIRED TO HAVE EROSION CONTROL BEST MANAGEMENT PRACTICES AND INSTALLED SEDIMENT CONTROL DEVICES INSPECTED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT PRODUCING GREATER THAN 0.5 INCHES OF RAINFALL WITHIN NORMAL BUSINESS HOURS. IN NORTH CAROLINA, INSPECTIONS MUST COMPLY WITH THE NPDES PROGRAM AS WELL AS STATE WATER QUALITY AND LOCAL ORDINANCE REQUIREMENTS. THIS MEANS ADHERING, IN PART, TO THE NC GENERAL PERMIT (NCG010000) FOR CONSTRUCTION ACTIVITIES. IT IS THE RESPONSIBILITY OF THE OWNER OR OPERATOR (I. E., DEVELOPER, GENERAL CONTRACTOR OR OTHER FINANCIALLY-RESPONSIBLE PARTY) TO CONDUCT OR DELEGATE THESE INSPECTIONS. WRITTEN DOCUMENTATION OF THESE INSPECTIONS ALONG WITH A COPY OF APPROVED EROSION & SEDIMENT CONTROL PLANS MUST BE POSTED AT THE CONSTRUCTION SITE.


B&F CONSULTING
2805 Tobermory Lane
Raleigh, NC 27606
Phone No. (919) 618-0180
License No. C-2149


NORTH CAROLINA PROFESSIONAL SEAL 027445 ENGINEER ANDREW FARRELLY
MARCH 2, 2019

**REVISIONS**

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

**PROJECT INFORMATION**

| | |
|---|---|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

**PROJECT NAME**

SUNSET GROVE SUBDIVISION PHASE 2

CHATHAM COUNTY NORTH CAROLINA

**DEVELOPER**

CHATHAM CAPITAL LLC

400 MARKET STREET
CHAPEL HILL, NC 27516

**SHEET NAME**

**GENERAL NOTES**

**DRAWING SCALE**

AS SHOWN

**PLAN SET**

CONSTRUCTION DRAWINGS

**DATE**

3-8-2019

**SHEET NUMBER**

C-1

## NOTES

1. BOUNDARY SURVEY PROVIDED BY CE GROUP, DATED FEBRUARY 2016.
2. TOPOGRAPHIC MAPPING PROVIDED BY SULLIVAN SURVEYING, 1143 D EXECUTIVE CIRCLE, CARY, NC 27511 (919-469-4738), DATED FEBRUARY 2016 AND AUGMENTED BY CHATHAM COUNTY GIS. ALL BEARINGS ARE NC GRID BEARINGS, NAVD 88 DATUM UTILIZED. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS/HER ACTIVITIES. CALL UTILITY LOCATING SERVICE 72 HOURS PRIOR TO DIGGING AT 1-800-632-4949.
4. THIS SURVEY INFORMATION IS PROVIDED FOR REFERENCE ONLY, AND MAP IS RECORDED UNDER SEPARATE SEAL AT COUNTY SEAT OFFICES.
5. THE CONTRACTOR SHALL VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
6. EXISTING SOILS AND STEEP SLOPES SHOWN IN EXISTING CONDITIONS MAP ARE FROM CHATHAM COUNTY GIS WEBSITE, AS OF MARCH 21, 2016.

| LINE TABLE | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | S06°09'45"E | 117.03' |
| L2 | N74°37'59"W | 68.72' |
| L3 | N70°10'21"W | 33.80' |
| L4 | N37°47'28"W | 53.37' |
| L5 | N85°51'23"W | 42.39' |
| L6 | S32°48'59"W | 53.40' |
| L7 | S33°53'20"W | 60.21' |
| L8 | S00°30'49"W | 49.30' |
| L9 | S89°08'36"W | 58.61' |
| L10 | S85°40'18"W | 108.21' |
| L11 | S84°54'56"W | 19.49' |
| L13 | S02°42'01"E | 317.93' |
| L14 | S02°40'00"E | 294.23' |
| L18 | N88°50'08"E | 67.54' |
| L19 | N18°46'56"W | 65.68' |
| L20 | N24°01'58"W | 47.56' |
| L21 | N28°29'48"W | 67.73' |
| L22 | N32°18'43"W | 30.15' |
| L23 | N88°50'08"E | 31.21' |
| L25 | N88°50'08"E | 30.92' |
| L26 | S11°54'55"E | 67.13' |

| LINE TABLE | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L27 | S09°17'12"E | 49.87' |
| L28 | S07°30'29"E | 51.12' |
| L29 | S51°05'59"E | 81.99' |
| L30 | N88°44'02"W | 116.17' |
| L31 | S16°54'05"E | 24.96' |
| L32 | S12°26'34"E | 52.83' |
| L33 | S09°17'12"E | 47.28' |
| L34 | S07°30'29"E | 49.85' |
| L35 | S06°51'45"E | 45.22' |
| L36 | S06°20'29"E | 47.62' |
| L37 | S06°15'33"E | 50.09' |
| L38 | S06°14'56"E | 49.89' |
| L39 | S05°31'52"E | 51.56' |
| L40 | S04°57'51"E | 50.21' |
| L41 | S03°45'19"E | 52.52' |
| L42 | S01°49'06"E | 38.05' |
| L43 | S01°04'55"E | 49.52' |
| L46 | S32°18'43"E | 10.95' |
| L47 | S28°29'48"E | 69.90' |
| L48 | S24°01'38"E | 50.10' |
| L49 | S18°22'55"E | 76.41' |

| LINE TABLE | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L50 | S45°50'35"E | 73.45' |
| L51 | S88°18'20"E | 118.07' |
| L52 | S06°81'45"E | 45.83' |
| L53 | S06°20'29"E | 47.94' |
| L54 | S06°15'33"E | 50.13' |
| L55 | S09°14'56"E | 50.27' |
| L56 | S05°31'52"E | 52.23' |
| L57 | S04°57'51"E | 51.14' |
| L58 | S03°45'19"E | 54.16' |
| L59 | S01°49'06"E | 39.45' |


B&F CONSULTING
2805 Tobermory Lane
Raleigh, NC 27606
Phone No. (919) 618-0180
License No. C-2149


NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027445 AMBER FARRELLY

SURVEY INFORMATION PROVIDED BY OTHERS
THIS DOES NOT CERTIFY SURVEY INFORMATION
ONLY THE PLACEMENT OF GIS DATA ON PLAN

**REVISIONS**

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

**PROJECT INFORMATION**

| | |
|---|---|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

**PROJECT NAME**

SUNSET GROVE SUBDIVISION PHASE 2

CHATHAM COUNTY NORTH CAROLINA

**DEVELOPER**

CHATHAM CAPITAL LLC

400 MARKET STREET
CHAPEL HILL, NC 27516

**SHEET NAME**

**OVERALL EXISTING CONDITIONS**

**DRAWING SCALE**

1"=200'

**PLAN SET**

CONSTRUCTION DRAWINGS

**DATE**

3-8-2019

**SHEET NUMBER**

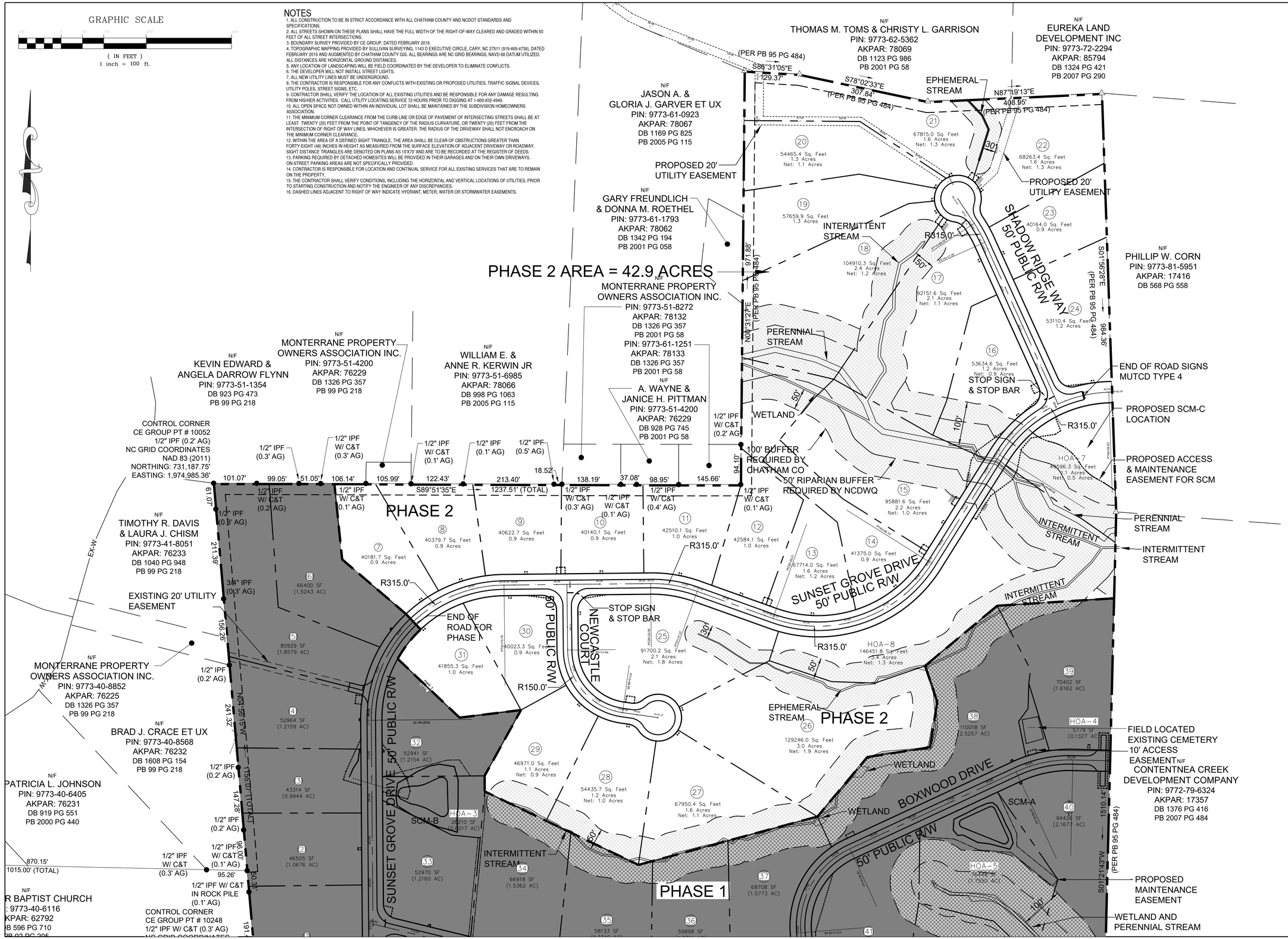
C-2

GRAPHIC SCALE

( IN FEET )
1 inch = 100 ft.

## NOTES

1. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH ALL CHATHAM COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL STREETS SHOWN ON THESE PLANS SHALL HAVE THE FULL WIDTH OF THE RIGHT-OF-WAY CLEARED AND GRADED WITHIN 50 FEET OF ALL STREET INTERSECTIONS.
3. BOUNDARY SURVEY PROVIDED BY CE GROUP, DATED FEBRUARY 2016.
4. TOPOGRAPHIC MAPPING PROVIDED BY SULLIVAN SURVEYING, 1143 D EXECUTIVE CIRCLE, CARY, NC 27511 (919-469-4738), DATED FEBRUARY 2016 AND AUGMENTED BY CHATHAM COUNTY GIS. ALL BEARINGS ARE NC GRID BEARINGS, NAVD 88 DATUM UTILIZED. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
5. ANY LOCATION OF LANDSCAPING WILL BE FIELD COORDINATED BY THE DEVELOPER TO ELIMINATE CONFLICTS.
6. THE DEVELOPER WILL NOT INSTALL STREET LIGHTS.
7. ALL NEW UTILITY LINES MUST BE UNDERGROUND.
8. THE CONTRACTOR IS RESPONSIBLE FOR ANY CONFLICTS WITH EXISTING OR PROPOSED UTILITIES, TRAFFIC SIGNAL DEVICES, UTILITY POLES, STREET SIGNS, ETC.
9. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS/HER ACTIVITIES. CALL UTILITY LOCATING SERVICE 72 HOURS PRIOR TO DIGGING AT 1-800-632-4949.
10. ALL OPEN SPACE NOT OWNED WITHIN AN INDIVIDUAL LOT SHALL BE MAINTAINED BY THE SUBDIVISION HOMEOWNERS ASSOCIATION.
11. THE MINIMUM CORNER CLEARANCE FROM THE CURB LINE OR EDGE OF PAVEMENT OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY OF THE RADIUS CURVATURE, OR TWENTY (20) FEET FROM THE INTERSECTION OF RIGHT OF WAY LINES, WHICHEVER IS GREATER. THE RADIUS OF THE DRIVEWAY SHALL NOT ENCROACH ON THE MINIMUM CORNER CLEARANCE.
12. WITHIN THE AREA OF A DEFINED SIGHT TRIANGLE, THE AREA SHALL BE CLEAR OF OBSTRUCTIONS GREATER THAN FORTY-EIGHT (48) INCHES IN HEIGHT AS MEASURED FROM THE SURFACE ELEVATION OF ADJACENT DRIVEWAY OR ROADWAY. SIGHT DISTANCE TRIANGLES ARE DENOTED ON PLANS AS 10'X70' AND ARE TO BE RECORDED AT THE REGISTER OF DEEDS.
13. PARKING REQUIRED BY DETACHED HOMESITES WILL BE PROVIDED IN THEIR GARAGES AND ON THEIR OWN DRIVEWAYS. ON-STREET PARKING AREAS ARE NOT SPECIFICALLY PROVIDED.
14. CONTRACTOR IS RESPONSIBLE FOR LOCATION AND CONTINUAL SERVICE FOR ALL EXISTING SERVICES THAT ARE TO REMAIN ON THE PROPERTY.
15. THE CONTRACTOR SHALL VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
16. DASHED LINES ADJACENT TO RIGHT OF WAY INDICATE HYDRANT, METER, WATER OR STORMWATER EASEMENTS.




B&F CONSULTING
2805 Tobermory Lane
Raleigh, NC 27606
Phone No. (919) 618-0180
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NORTH CAROLINA PROFESSIONAL SEAL 027445 ENGINEER AMBER FARRELL

**REVISIONS**

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

**PROJECT INFORMATION**

| | |
|---|---|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

**PROJECT NAME**

SUNSET GROVE SUBDIVISION PHASE 2

CHATHAM COUNTY NORTH CAROLINA

**DEVELOPER**

CHATHAM CAPITAL LLC

400 MARKET STREET
CHAPEL HILL, NC 27516

**SHEET NAME**

**SITE PLAN PHASE 2**

**DRAWING SCALE**

1"=100'

**PLAN SET**

CONSTRUCTION DRAWINGS

**DATE**

3-8-2019

**SHEET NUMBER**

C-3

GRAPHIC SCALE

( IN FEET )
1 inch = 100 ft.

## NOTES

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6. THE DEVELOPER WILL NOT INSTALL STREET LIGHTS.
7. ALL NEW UTILITY LINES MUST BE UNDERGROUND.
8. THE CONTRACTOR IS RESPONSIBLE FOR ANY CONFLICTS WITH EXISTING OR PROPOSED UTILITIES, TRAFFIC SIGNAL DEVICES, UTILITY POLES, STREET SIGNS, ETC.
9. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS/HER ACTIVITIES. CALL UTILITY LOCATING SERVICE 72 HOURS PRIOR TO DIGGING AT 1-800-632-4949.
10. ALL OPEN SPACE NOT OWNED WITHIN AN INDIVIDUAL LOT SHALL BE MAINTAINED BY THE SUBDIVISION HOMEOWNERS ASSOCIATION.
11. THE MINIMUM CORNER CLEARANCE FROM THE CURB LINE OR EDGE OF PAVEMENT OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY OF THE RADIUS CURVATURE, OR TWENTY (20) FEET FROM THE INTERSECTION OF RIGHT OF WAY LINES, WHICHEVER IS GREATER. THE RADIUS OF THE DRIVEWAY SHALL NOT ENCROACH ON THE MINIMUM CORNER CLEARANCE.
12. WITHIN THE AREA OF A DEFINED SIGHT TRIANGLE, THE AREA SHALL BE CLEAR OF OBSTRUCTIONS GREATER THAN FORTY-EIGHT (48) INCHES IN HEIGHT AS MEASURED FROM THE SURFACE ELEVATION OF ADJACENT DRIVEWAY OR ROADWAY.
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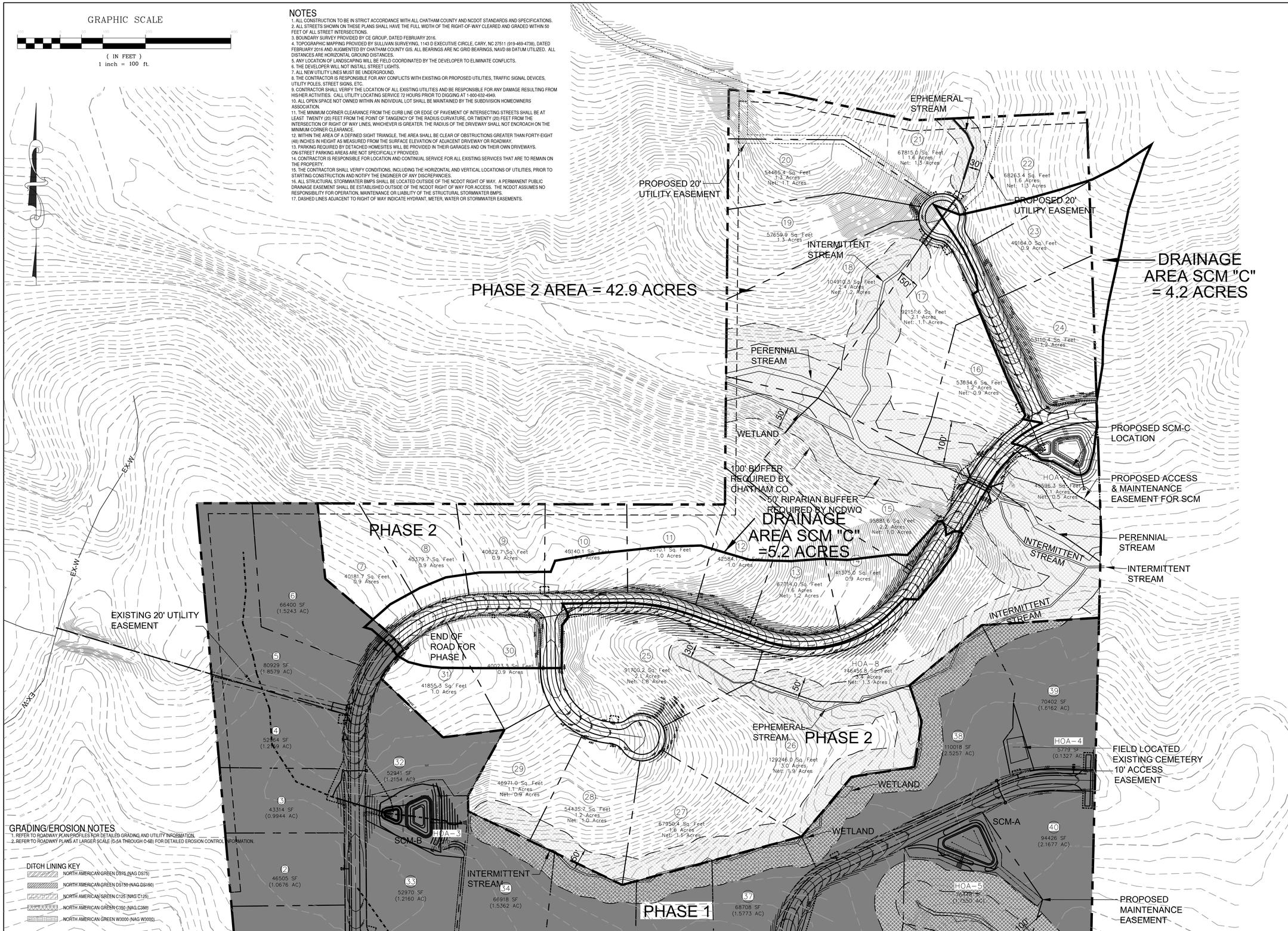
14. CONTRACTOR IS RESPONSIBLE FOR LOCATION AND CONTINUAL SERVICE FOR ALL EXISTING SERVICES THAT ARE TO REMAIN ON THE PROPERTY.
15. THE CONTRACTOR SHALL VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
16. ALL STRUCTURAL STORMWATER BMPS SHALL BE LOCATED OUTSIDE OF THE NCDOT RIGHT OF WAY. A PERMANENT PUBLIC DRAINAGE EASEMENT SHALL BE ESTABLISHED OUTSIDE OF THE NCDOT RIGHT OF WAY FOR ACCESS. THE NCDOT ASSUMES NO RESPONSIBILITY FOR OPERATION, MAINTENANCE OR LIABILITY OF THE STRUCTURAL STORMWATER BMPS.
17. DASHED LINES ADJACENT TO RIGHT OF WAY INDICATE HYDRANT, METER, WATER OR STORMWATER EASEMENTS.




## GRADING/EROSION NOTES

1. REFER TO ROADWAY PLAN/PROFILES FOR DETAILED GRADING AND UTILITY INFORMATION.
2. REFER TO ROADWAY PLANS AT LARGER SCALE (5-5A THROUGH C-6B) FOR DETAILED EROSION CONTROL INFORMATION.

DITCH LINING KEY

- NORTH AMERICAN GREEN DS75 (NAG DS75)
- NORTH AMERICAN GREEN DS150 (NAG DS150)
- NORTH AMERICAN GREEN C125 (NAG C125)
- NORTH AMERICAN GREEN C350 (NAG C350)
- NORTH AMERICAN GREEN W3000 (NAG W3000)


B&F CONSULTING
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NORTH CAROLINA PROFESSIONAL SEAL 027445 ENGINEER AMBER FARRELL

**REVISIONS**

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

**PROJECT INFORMATION**

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|---|---|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

**PROJECT NAME**

SUNSET GROVE SUBDIVISION PHASE 2

CHATHAM COUNTY NORTH CAROLINA

**DEVELOPER**

CHATHAM CAPITAL LLC

400 MARKET STREET
CHAPEL HILL, NC 27516

**SHEET NAME**

**GRADING PLAN PHASE 2**

**DRAWING SCALE**

1"=100'

**PLAN SET**

CONSTRUCTION DRAWINGS

**DATE**

3-8-2019

**SHEET NUMBER**

C-4

## NOTES

1. SEE PLAN SHEETS FOR APPLICABLE NOTES

GRAPHIC SCALE

( IN FEET )
1 inch = 30 ft.

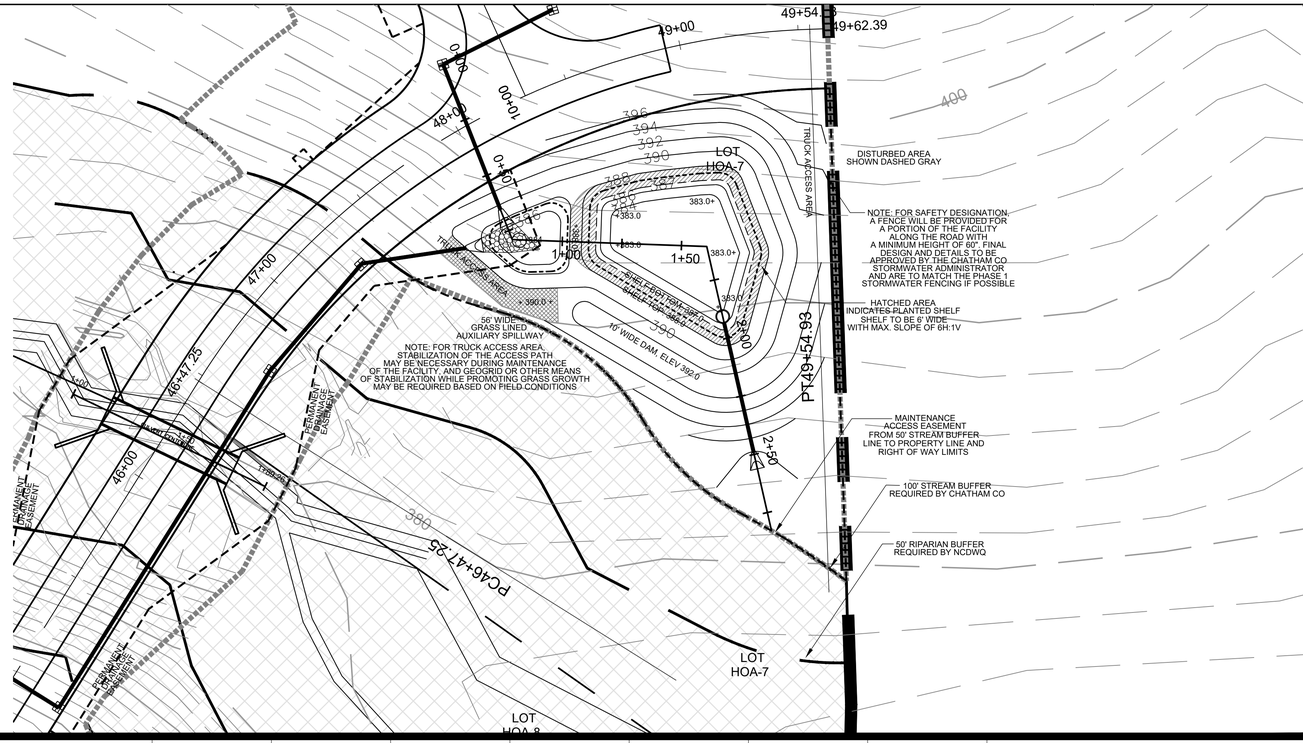
### PLANT LIST - SCM-C - LITTORAL SHELF PLANTINGS

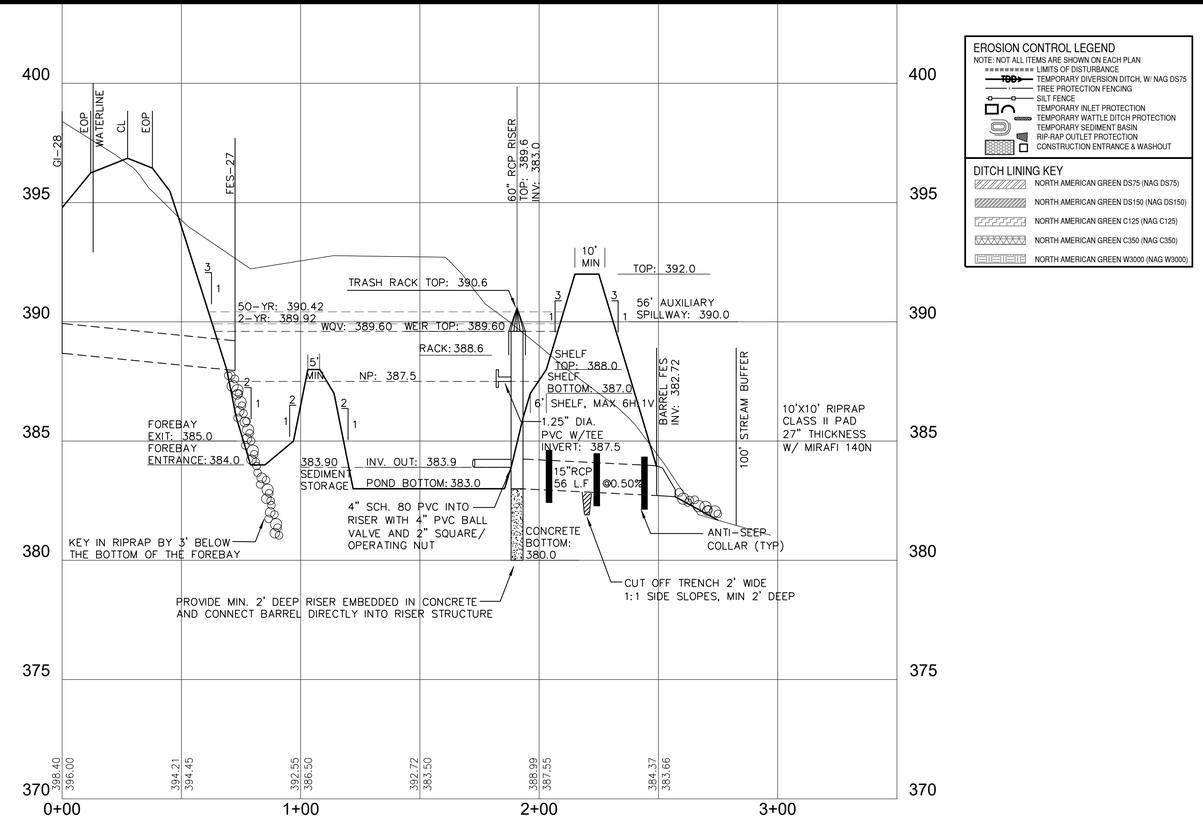
TO BE PLANTED AT MINIMUM DENSITY OF 50 PLANTS PER 200 S.F. OF SHELF AREA (TOTAL SHELF AREA OF 1504 SF = 376 PLANTS)

| PLANT TYPE | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | REMARKS |
|---|---|---|---|---|---|
| HERBACEOUS | Acorus subcordatum | Sweetflag | 4" Pot | Cont. | 36" o.c., in shallow water of shelf |
| HERBACEOUS | Iris virginica | Blue flag iris | 4" Pot | Cont. | 24" o.c., in shallow water of shelf |
| HERBACEOUS | Juncus effusus var. pylaei or solutus | Soft rush | 4" Pot | Cont. | 24" o.c. |
| HERBACEOUS | Pontederia cordata | Pickerelweed | 4" Pot | Cont. | 24" o.c., in shallow water of shelf |
| HERBACEOUS | Alisma subcordatum | Water plantain | 4" Pot | Cont. | 24" o.c. |

LANDSCAPING NOTES:
1. LITTORAL SHELF PLANTINGS MUST BE PLANTED AT A MINIMUM DENSITY OF 50 PLANTS PER 200 S.F. AND SHOULD BE A MIXTURE OF AT LEAST THREE SPECIES IDENTIFIED ABOVE. OF THE THREE SPECIES, TWO MUST BE FROM BELOW THE NORMAL POOL ELEVATION AND ONE MUST BE FROM ABOVE THE NORMAL POOL ELEVATION.
2. ALL PLANT MATERIAL SHALL COME FROM LOCAL NURSERY STOCK. IF A SOURCE FOR A SPECIFIED PLANT CAN NOT BE LOCATED, LANDSCAPE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR A SUITABLE SUBSTITUTION, AS APPROVED BY THE TOWN.

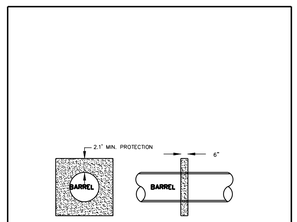
MAINTENANCE PROCEDURES: WET DETENTION BASIN
1. IMMEDIATELY AFTER THE WET DETENTION BASIN IS ESTABLISHED, THE PLANTS ON THE VEGETATED SHELF AND THE PERIMETER OF THE BASIN SHOULD BE WATERED TWICE WEEKLY IF NEEDED, UNTIL THE PLANTS BECOME ESTABLISHED (COMMONLY SIX WEEKS).
2. NO PORTION OF THE WET DETENTION POND SHOULD BE FERTILIZED AFTER THE FIRST INITIAL FERTILIZATION THAT IS REQUIRED TO ESTABLISH THE PLANTS ON THE VEGETATED SHELF.
3. STABLE GROUNDCOVER SHOULD BE MAINTAINED IN THE DRAINAGE AREA TO REDUCE THE SEDIMENT TO THE WET DETENTION BASIN.
4. IF THE BASIN MUST BE DRAINED FOR AN EMERGENCY OR TO PERFORM MAINTENANCE, THE FLUSHING OF SEDIMENT THROUGH THE EMERGENCY DRAIN SHOULD BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL.
5. ONCE A YEAR, A DAM SAFETY EXPERT SHOULD INSPECT THE EMBANKMENT.



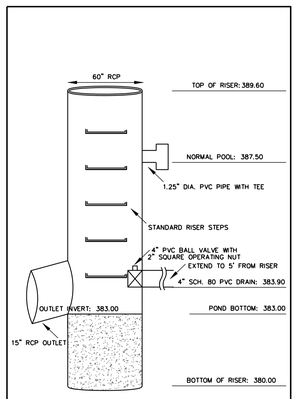

EROSION CONTROL LEGEND
NOTE: NOT ALL ITEMS ARE SHOWN ON EACH PLAN
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH, W/ NAG DS75
- TREE PROTECTION FENCING
- SILT FENCE
- TEMPORARY INLET PROTECTION
- TEMPORARY WATTLE DITCH PROTECTION
- TEMPORARY SEDIMENT BASIN
- RIP-RAP OUTLET PROTECTION
- CONSTRUCTION ENTRANCE & WASHOUT

DITCH LINING KEY
- NORTH AMERICAN GREEN DS75 (NAG DS75)
- NORTH AMERICAN GREEN DS150 (NAG DS150)
- NORTH AMERICAN GREEN C125 (NAG C125)
- NORTH AMERICAN GREEN C350 (NAG C350)
- NORTH AMERICAN GREEN W3000 (NAG W3000)




NOTES:
1. CONCRETE FOR COLLARS SHALL BE 3000 PSI (MIN.) 28 DAY STRENGTH.
2. COLLARS SHALL BE CONNECTED TO RCP BARREL WITH A WATER TIGHT JOINT.
3. COLLARS SHALL BE SPACED ALONG BARREL AT 20' O.C.
4. ANTI-SEEP COLLARS SHALL BE PLACED A MINIMUM OF 2' FROM PIPE JOINTS.

CONC. ANTI-SEEP COLLAR (NTS)




RISER WEIR AT SCM-C (NTS)

POND OUTLET STRUCTURE NOTES:
1. RCP OUTLET BARREL SHALL BE CLASS III RCP MEETING THE REQUIREMENTS OF ASTM C76. THE PIPE JOINTS SHALL BE CONFINED O-RING RUBBER GASKET JOINTS MEETING ASTM C-443 AND ASTM C-361.
2. ANY MANHOLE OUTLET RISER SHALL MEET ASTM C-478M & AASHTO M-199 MONOLITHIC BASE. THE MANHOLE JOINTS SHALL BE ASTM C-443 RUBBER GASKET JOINTS. MANHOLE JOINTS SHALL BE SECURELY ANCHORED TOGETHER TO PREVENT SEPARATION. CONTRACTOR IS RESPONSIBLE FOR DESIGN OF THE MANHOLE SECTION ANCHORING SYSTEM.
3. OUTLET STRUCTURES SHALL BE PROVIDED WITH STEPS 1'-2" ON CENTER. STEPS SHALL BE IN ACCORDANCE WITH NCDOT STD. 840.66. TRASH RACK HATCH TO BE ALIGNED OVER STEPS.
4. CONCRETE ANTI-FLOATATION BLOCK SHALL BE INTEGRALLY ATTACHED TO RISER BASE TO PREVENT RISER/BLOCK SEPARATION, OR PRECAST AS THE EXTENDED BASE OF THE MANHOLE DURING FABRICATION. IF THE CONCRETE ANTI-FLOATATION BLOCK IS CAST SEPARATE FROM THE MANHOLE ASSEMBLY THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANCHORING THE ANTI-FLOATATION BLOCK TO THE MANHOLE RISER ASSEMBLY.

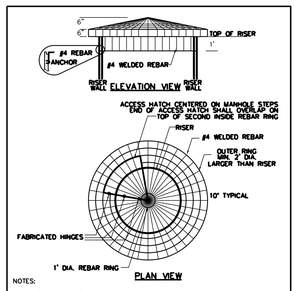
OUTLET STRUCTURE MATERIAL SPECIFICATIONS:
1. ALL POURED CONCRETE SHALL BE MINIMUM 3000 PSI (28 DAY) UNLESS OTHERWISE NOTED.

BERM SOIL AND COMPACTION SPECIFICATIONS:
1. ALL FILL SOILS FOR BERM SECTION SHALL BE CLEAN, IMPERMEABLE MATERIAL AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR MAXIMUM DRY DENSITY, AT OPTIMUM MOISTURE CONTENT. NO BLASTED MATERIALS SHAL BE USED IN THE EMBANKMENT CONSTRUCTION. SOILS SHALL NOT EXHIBIT SIGNIFICANT SHRINK/SWELL OR DISPERSIVE CHARACTERISTICS. ON-SITE GEOTECHNICAL ENGINEER SHALL APPROVE THE SOILS FOR PLACEMENT WITHIN THE BERM SECTION. THE GEOTECHNICAL ENGINEER SHALL ALSO SPECIFY THE METHODS TO BE USED FOR PLACEMENT OF FILL. IF ADDITIONAL USES ARE PLANNED UPON THE BERM SECTION THE GEOTECHNICAL ENGINEER SHALL SPECIFY SOILS SUITABLE FOR THAT ADDITIONAL USE.
2. IN ALL FILL AREAS OF THE BERM, A SOILS COMPACTION TEST SHALL BE CONDUCTED EACH 2500 SQUARE FEET PER VERTICAL FOOT OF FILL.
3. NO TREES OF ANY TYPE MAY BE LOCATED ON THE BERM SECTION.
4. FILL PLACEMENT SHALL NOT EXCEED A MAXIMUM 8" LIFT. EACH LIFT SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF THE EMBANKMENT. BEFORE PLACEMENT OF FILL FOR THE BERM SECTION, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE SURFACE PROPERTY PREPARED FOR THE FILL PLACEMENT.
5. ADD 2-3" LAYER OF TOP SOIL TO ENTIRE BERM PRIOR TO SEEDING/MULCHING.

STATEMENT OF RESPONSIBILITY
ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THIS FACILITY SHALL BE AS PER THE OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.

GENERAL NOTES
1. POND STRUCTURES, AREA AND DAM WITH SPILLWAY ARE TO BE AS-BUILT AFTER CONSTRUCTION IS COMPLETED. ANY ASPECT OF CONSTRUCTION NOT IN COMPLIANCE WITH LATEST CONSTRUCTION PLANS WILL BE REBUILT OR REPAIRED TO DESIGN SPECIFICATIONS AT CONTRACTOR'S EXPENSE.
2. BASIN TO BE CLEANED OF SEDIMENT, GRADED TO FINAL DESIGN GRADES AND PLANTED PER THE VEGETATION PLAN AT SUCH TIME AS BASIN IS NO LONGER NEEDED AS A SEDIMENT BASIN.

GENERAL TRASH RACK NOTES




NOTES:
1. ALL REBAR TO BE #4 REBAR
2. ALL REBAR AND ANGLES TO BE GALVANIZED WITH A BITUMINOUS COATING.
3. THE HOT-DIPPED GALVANIZED 2"X2"X1/4" ANGLES SHALL BE WELDED TO THE REBAR TRASH RACK. ONCE WELDED, THE ENTIRE ASSEMBLY SHALL BE PLACED ONTO THE MANHOLE RISER WITH ANGLES SITTING DIRECTLY ON TOP OF THE RISER.
4. HATCH TO ALIGN WITH RISER STEPS.
5. HATCH TO BE CHAINED AND LOCKED. KEY TO BE HELD IN POSSESSION OF PARTY RESPONSIBLE FOR MAINTENANCE OF WETLAND.
6. ANCHOR TRASH RACK TO MANHOLE WALL WITH FOUR EQUALLY SPACED HOT-DIPPED GALVANIZED STEEL CLAMPS, EACH CLAMP ATTACHED TO MANHOLE RISER BY 4"X1/2" CONCRETE ANCHOR BOLTS, EACH CLAMP TO BE COATED WITH A BITUMINOUS COATING.

TRASH RACK AT SCM-B (NTS)


B&F CONSULTING
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NORTH CAROLINA PROFESSIONAL SEAL 027445 ENGINEER AMBER FARRELL

**REVISIONS**

| NO. | DATE | DESCRIPTION |
|---|---|---|
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**PROJECT INFORMATION**

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| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

**PROJECT NAME**

SUNSET GROVE SUBDIVISION PHASE 2

CHATHAM COUNTY NORTH CAROLINA

**DEVELOPER**

CHATHAM CAPITAL LLC

400 MARKET STREET
CHAPEL HILL, NC 27516

**SHEET NAME**

**SCM-C SECTION AND DETAILS**

**DRAWING SCALE**

HORIZ: 1"=30', VERT: 1"=3'

**PLAN SET**

CONSTRUCTION DRAWINGS

**DATE**

3-8-2019

**SHEET NUMBER**

C-4A