

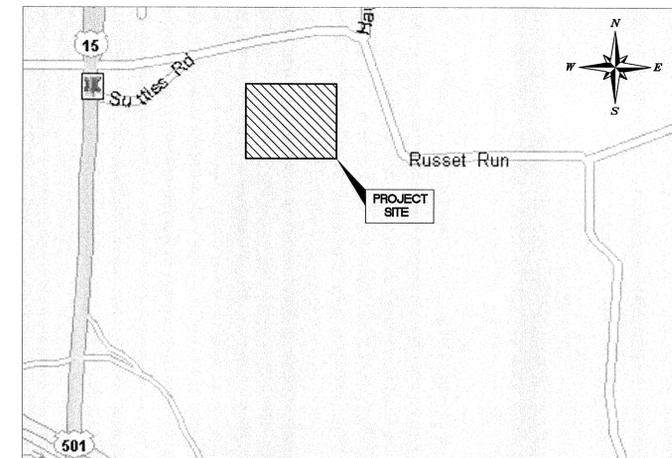
PROJECT LOCATION  
(NTS)

# SITE PLAN SUBMITTAL FOR HOSPICE AT CHATHAM PARK

CHATHAM PARK  
PITTSBORO, NC

A DEVELOPMENT BY: CHATHAM PARK INVESTORS LLC

100 WESTON ESTATES WAY  
CARY, NC 27513  
PH: (919) 481-3000



VICINITY MAP

1"=500'

## CONTACTS

OWNER: CHATHAM PARK INVESTORS LLC  
100 WESTON ESTATES WAY  
CARY, NC 27513  
PHONE: (919) 481-3000  
ATTN.: VANESSA JENKINS

LANDSCAPE ARCHITECT: KIMLEY-HORN AND ASSOCIATES, INC.  
333 FAYETTEVILLE STREET, SUITE 600  
RALEIGH, NORTH CAROLINA 27601  
PHONE: (919) 653-2976  
ATTN.: RICHARD BROWN, PLA  
Richard.Brown@kimley-horn.com

CIVIL ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC.  
333 FAYETTEVILLE STREET, SUITE 600  
RALEIGH, NORTH CAROLINA 27601  
PHONE: (919) 677-2127  
ATTN.: BRIAN O'KANE, PE  
brian.okane@kimley-horn.com

SURVEYOR: WHITHERS & RAVENEL  
115 MACKENAN DRIVE  
CARY, NC 27511  
PHONE: (919) 469-3340

ARCHITECT: MHA WORKS  
501 WASHINGTON STREET  
DURHAM, NC 27701  
PHONE: (919) 682-2870

## PROJECT DATA



TOWN OF PITTSBORO  
SITE PLAN APPLICATION

P.O. Box 759-635 East Street  
Pittsboro, NC 27312

Telephone (919) 542-4621  
Fax (919) 542-7109

Site Plan - \_\_\_\_\_

A site plan is a plan required to be submitted prior to development that assures the proposed development complies with the standards in the zoning and subdivision ordinances (such as residential density, lot area and configuration, building size, mass, and design, and other site features like parking or landscaping), and other applicable requirements in the code of ordinance. All development plans must be prepared, sealed, and signed by a professional engineer or licensed 3(b) land surveyor.

I, (We) the undersigned, do hereby respectfully make application for a Site Plan of the Town of Pittsboro, and in support of this application, the following facts are shown:

### (1) Applicant Information:

Name: Chatham Park Investors, LLC  
Address: 100 Weston Estates Way  
Cary, NC 27513  
Phone No: (h) NA  
(w) (919) 481-3000  
(m) NA  
Email: info@prestondev.com

### (2) Landowner Information (as shown on deed)

Name: Chatham Park Investors, LLC  
Address: PO BOX 3557  
Cary, NC 27519  
Phone No: (h) NA  
(w) (919) 481-3000  
(m) NA  
Email: info@prestondev.com

### (3) Property Identification:

911 Address: TBD Tax Map #: Part of 60745 (AKPAR)  
Parcel#: Part of 9752-27-6874  
S.R. Name: Russell Run Deed Book: 1567 Page: 0800 Yr: 2011  
S.R. Number: 1658 Plat Book: 2012 Page: 0189  
Acreage: Part of 149.17 Current Zoning District: pdd  
Flood map #: 3710975200J Watershed District: WS-IV NSW  
Flood Zone: No  
Map Date (2-07-2007)

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\*\*\*Total site plan project area = 4.80 acres of disturbance of the 149.17 acre parcel

I hereby certify that I am the owner or authorized agent of said property and that the information provided is complete and the statements given are true to the best of my knowledge.

Signature \_\_\_\_\_ Date \_\_\_\_\_

**The owner must sign the following if someone other than the owner is making the application.**

I hereby certify that \_\_\_\_\_ is an authorized agent for said property and is permitted by me to file this application.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Form revised 04/05/13

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### REVISIONS

NO.	DATE	DESCRIPTION	BY
4	05/18/2015	REVISED PER TOWN OF PITTSBORO COMMENTS	BTO
3	04/17/2015	REVISED PER TOWN OF PITTSBORO COMMENTS	BTO
2	03/28/2015	EROSION CONTROL SUBMITTAL	BTO
1	02/12/2015	LEED	BTO

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DRAWING:

DATE:

FEBRUARY 12, 2015

SEAL:

JOB NUMBER:

011546001

PREPARED IN THE OFFICE OF:

# Kimley»Horn

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NC CERTIFICATE OF AUTHORIZATION: F-0102

**EXISTING LEGEND**

CATCH BASIN		CB
EXISTING IRON PIPE		EIP
WATER METER		WM
EDGE OF PAVEMENT		EOP
CURB & GUTTER		CG
CATCH BASIN		CB
SEWER MANHOLE		SM
WATER MANHOLE		WM
UTILITY POLE		UP
TREE		1928
LEFT TURN ARROW		
ADJOINER		
BOUNDARY		
EASEMENT		
STORM DRAINAGE		
SANITARY SEWER		SS
CURB AND GUTTER		
TREELINE		
OVERHEAD ELECTRIC		OHE
FENCE		
PAVEMENT MARKING (BROKEN WHITE STRIPE)		
PAVEMENT MARKING (SOLID YELLOW STRIPE)		

**PROPOSED LEGEND**

LIGHT POLE		*
COMMUNICATIONS BOX		CB
FIRE HYDRANT		
GATE VALVE		
CATCH BASIN		CB
SEWER MANHOLE		SM
TREE		
SIGN		
PROPERTY/ROW		
SETBACK		
EASEMENT		
CENTERLINE		
MONUMENT		
IRON PIPE/ROD		IPR
EDGE PAVEMENT		
CURBLINE		
SPILL CURB		
CONTOURS (MAJOR)		445
CONTOURS (MINOR)		442
OVERHEAD POWER		OP
FIBER OPTIC		FO
GAS		G
WATER		W
SANITARY SEWER		SS
STORM DRAIN		SD
UNDERGROUND ELEC		UE
UNDERGROUND TEL		UT
INLET PROTECTION		
RETAINING WALL		
SILT FENCE		SF
TREE PROTECTION FENCE		TPF
BENCHMARK		
UTILITIES AND FENCE TO BE REMOVED		
POLE, TREE OR SIGN TO BE REMOVED		X
PAVEMENT & CURB AND GUTTER TO BE REMOVED		
PAVEMENT & CURB AND GUTTER TO BE REMOVED		
PAVEMENT & CURB AND GUTTER TO BE REMOVED		
CONSTRUCTION ENTRANCE		
PAVEMENT MARKING DIRECTIONAL ARROWS		
PROPOSED CONCRETE		
TYPICAL FOR SIMILAR AREAS		(TYP)
PROPOSED HANDICAPPED PARKING PAVEMENT MARKINGS & SIGNAGE		
IPF		
PROPOSED SPOT ELEVATIONS		+100.00
FIRELANE		
DIVERSION DITCH		

**GENERAL NOTES:**

- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS, BUILDING UTILITY ENTRANCE LOCATIONS, AND EXACT LOCATIONS AND DIMENSIONS OF EXIT PORCHES, RAMPS, DOWNSPOUTS, GRAVEL AREAS ADJACENT TO BUILDING WALLS, UTILITY ENTRANCE LOCATIONS AND BOLLARDS IN BUILDING SIDEWALKS.
- ACCESSIBLE SIGNS WITH A "VAN" MARKING SHALL HAVE ADDITIONAL SIGN MOUNTED ABOVE THE SYMBOL OF ACCESSIBILITY SIGN DENOTING VAN ACCESSIBILITY.
- REFER TO SITE DETAIL SHEETS FOR DETAILS OF ON-SITE SIGNAGE, STRIPING, AND PAVEMENT MARKING. REFER TO SITE PLAN FOR ADDITIONAL DIMENSIONAL INFORMATION.
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY, AND STATE REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- ALL ISLANDS WITH CURB & GUTTER SHALL BE LANDSCAPED. THOSE ISLANDS ARE TO HAVE CURB & GUTTER AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- SITE BOUNDARY, TOPOGRAPHY, UTILITY, TREE, AND ROAD INFORMATION TAKEN FROM FIELD SURVEYS BY WITHERS & RAVENEL, PROFESSIONAL LAND SURVEYORS DATED AUGUST 13, 2014.
- THE CONTRACTOR SHALL EMPLOY ALL NECESSARY BARRICADES, SIGNS, FENCES, FLASHING LIGHTS, TRAFFIC MEN, ETC. FOR MAINTENANCE AND PROTECTION OF TRAFFIC AS REQUIRED BY THE NORTH CAROLINA DEPT. OF TRANSPORTATION (NCDOT).
- THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL REPLACE EXISTING CONCRETE CURBS, SIDEWALK, PAVING, AND GUTTER AS NECESSARY.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
- CONTRACTOR AGREES TO REPAIR ANY DAMAGE TO THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE STANDARDS OF THE NCDOT.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
- ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
- SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
- ALL CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH CURRENT NCDOT AND TOWN OF PITTSBORO STANDARD SPECIFICATIONS AND DETAILS.
- ALL WORK MUST COMPLY WITH NORTH CAROLINA STATE BUILDING AND HANDICAPPED ACCESSIBILITY CODE VOL. 1C.
- VERTICAL DATUM FOR SURVEY IS NAVD 88.

**TREE PROTECTION NOTES:**

- THE CONTRACTOR SHALL PROTECT ALL TREES AND SHRUBS OUTSIDE OF CUT/FILL LINES, IN ADDITION TO THOSE THAT RECEIVE TREE/SHRUB PROTECTION BARRIERS. THE CONTRACTOR IS ALSO REQUESTED TO SAVE ALL OTHER EXISTING TREES AND SHRUBS WHERE POSSIBLE.
- WHEN ROOT PRUNING IS NECESSARY, CUT ROOTS CLEANLY USING A DISC TRENCHER AND IMMEDIATELY COVER ALL ROOT CUT SURFACES LARGER THAN TWO INCHES IN DIAMETER WITH TREE WOUND DRESSING. USE PLYWOOD FORMS WHEN TREE ROOTS ARE ADJACENT TO PROPOSED CURB & GUTTER OR SIDEWALK.
- NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE PROTECTION ZONE. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
- NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.
- TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING OR CONSTRUCTION BEGINS AND IS NOT TO BE REMOVED UNTIL AFTER CONSTRUCTION.

**TRAFFIC CONTROL:**

- REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) FOR DETAILS OF STANDARD TRAFFIC CONTROL SIGNS AND STANDARDS.

**DEMOLITION NOTES:**

- CONTRACTOR SHALL COORDINATE WITH THE TOWN OF PITTSBORO TO OBTAIN ALL NECESSARY DEMOLITION PERMITS PRIOR TO THE START OF ANY DEMOLITION WORK.
- SAW CUT AND REMOVE CONCRETE CURB TO LIMITS REQUIRED FOR NEW WORK.
- REMOVE VEGETATION AND GRASS IN AREAS TO RECEIVE NEW ASPHALT AND CONCRETE PAVEMENTS.
- SAW CUT AND REMOVE ASPHALT PAVEMENT TO LIMITS INDICATED ON PLAN.
- THE CONTRACTOR SHALL DEMOLISH AND REMOVE FACILITIES WITHIN THE PROJECT SITE TO INCLUDE BUILDINGS, CONCRETE STRUCTURES (ABOVE GROUND AND FOUNDATION), SITE LIGHTING STRUCTURES, PAVEMENTS, AND SECONDARY UTILITIES. ALL MATERIALS SHALL BE PROPERLY DISPOSED OF OFF-SITE PER STATE REGULATIONS.
- ALL PRIMARY UTILITIES DISCOVERED DURING DEMOLITION OPERATIONS THAT SERVE ACTIVITIES OTHER THAN THE PROJECT SITE SHALL BE PROPERLY PRESERVED AND PROTECTED.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER AND ENGINEER ANY UNFORESEEN OR ADVERSE CONDITIONS, INCLUDING UNCHARTED UTILITIES, DISCOVERED DURING DEMOLITION OPERATIONS.

**BACKFLOW PREVENTION NOTES:**

- THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS REQUIRED BACKFLOW PREVENTER.
- EACH BACKFLOW PREVENTER ASSEMBLY IS REQUIRED TO BE TESTED BY AN APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM INTO SERVICE.

**GRADING:**

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL TOWN OF PITTSBORO AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.
- ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK, AND THIS MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCURS DURING CONSTRUCTION.
- CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- ALL FILL TO BE COMPACTED PER THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
- LIMITS OF CLEARING SHOWN ON GRADING PLAN ARE BASED UPON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.
- THE PROPOSED CONTOURS SHOWN IN DRIVES AND PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
- CONTRACTOR SHALL INSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL DRAIN BY GRAVITY FLOW ACROSS NEW PAVEMENT AREAS TO NEW OR EXISTING DRAINAGE INLETS OR SHEET OVERLAND.
- ANY GRADING, BEYOND THE LIMITS OF CONSTRUCTION AS SHOWN ON THE GRADING PLAN IS SUBJECT TO A FINE.
- TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY WITHERS & RAVENEL, PROFESSIONAL LAND SURVEYORS DATED AUGUST 13, 2014.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL.
- CONSTRUCTION SHALL GRASS DISTURBED AREAS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL SAID ITEMS.
- THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND ELEVATIONS.
- ALL FILL MATERIALS, EXISTING BUILDING FOUNDATIONS, PAVEMENT AND UTILITY STRUCTURES, TOPSOIL AND ANY OTHER DELETERIOUS MATERIALS SHALL BE COMPLETELY REMOVED FROM WITHIN THE BEARING ZONE BELOW THE STRUCTURE.
- ALL FOUNDATION AND UTILITY EXCAVATION SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL REPRESENTATIVE TO DETERMINE WHETHER UNSUITABLE MATERIAL MUST BE REMOVED. ALL UNSUITABLE MATTER SHALL BE REMOVED, BACKFILLED AND COMPACTED WITH SUITABLE MATERIAL AS REQUIRED BY THE GEOTECHNICAL REPRESENTATIVE AT CONTRACTOR'S EXPENSE.
- GRADES, ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE. AS DIRECTED BY THE ENGINEER, THEY MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN CONDITIONS. STATIONS, OFFSETS AND ELEVATIONS REFER TO THE CENTER OF DROP INLETS, MANHOLES AND JUNCTION BOXES, AND THE MIDPOINT OF THE LIP FOR CATCH BASINS.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
- BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED IN THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- ALL PAVEMENT SUB GRADES SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF ASTM D-698 DENSITY AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 8" LIFTS. IN AREAS WHERE ROCK IS ENCOUNTERED AT FINAL SUB GRADE ELEVATION, THE EXPOSED ROCK SHALL BE TOPPED WITH A LEVELING COURSE OF SANDY CLAY OR CLAYEY SAND (P.I. BETWEEN 4 AND 15) AS NEEDED TO PROVIDE A SMOOTH SURFACE FOR PAVING.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE TESTING LABORATORY AND THE PAYMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE SPECIFICATIONS.
- THE LOCATIONS OF STORM SEWER STRUCTURES SHOWN ON THESE PLANS (AND PROVIDED IN ASSOCIATED CADD FILES) ARE APPROXIMATE. THE CONTRACTOR SHALL STAKE ALL CURB INLET STRUCTURES SUCH THAT INLET TOPS ALIGN HORIZONTALLY WITH PROPOSED FINISHED GRADE (PER DETAIL, IF PROVIDED). WHERE PROPOSED STORM SEWERS TIE TO EXISTING STRUCTURES, PIPES, ETC., THE CONTRACTOR SHALL FIELD ADJUST PROPOSED STORM SEWERS TO MATCH THE LOCATIONS OF THESE EXISTING FEATURES.

**SOLID WASTE:**

- CAPACITY AND COLLECTION FREQUENCY SHALL PREVENT THE ILLEGAL PLACEMENT OF GARBAGE AND RECYCLABLES.

**TOWN OF PITTSBORO STANDARD UTILITY NOTES:**

- OWNER / CONTRACTOR SHALL NOTIFY TOWN OF PITTSBORO AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. ONCE WORK HAS BEGUN, AT LEAST 48 HOURS NOTICE SHALL BE GIVEN PRIOR TO ANY SORT OF DISRUPTION TO THE TOWN'S SERVICES SUCH AS TAPPING WATER MAIN, OPERATING VALVES, CLOSING STREETS, PLUGGING SEWER, ETC.
- UTILITY SEPARATION REQUIREMENTS:
  - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
  - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
  - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
  - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN AND RCP STORM DRAIN CROSSINGS. MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE.
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE TOWN OF PITTSBORO PUBLIC UTILITIES DEPARTMENT.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 48 HOUR ADVANCE NOTICE TO THE TOWN OF PITTSBORO PUBLIC UTILITIES DEPARTMENT.
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
- ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDOW, USAGE, AND/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND, &/OR FLOODPLAIN IMPACTS (RESPECTIVELY).

**TOWN OF PITTSBORO UTILITY NOTIFICATION NOTE:**

- THE OWNER/CONTRACTOR SHALL NOTIFY THE TOWN OF PITTSBORO AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. ONCE WORK HAS BEGUN, AT LEAST 48 HOURS NOTICE SHALL BE GIVEN PRIOR TO ANY SORT OF DISRUPTION TO THE TOWN'S SERVICES SUCH AS TAPPING WATER MAINS, OPERATING VALVES, CLOSING STREETS, PLUGGING SEWERS, ETC.
- NOTIFICATION MUST BE PROVIDED BY DIRECT COMMUNICATION. VOICE MAIL OR EMAIL WILL NOT BE CONSIDERED PROPER NOTIFICATION UNLESS ADEQUATELY RESPONDED TO BY A TOWN OF PITTSBORO REPRESENTATIVE.
- THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL CUSTOMERS AFFECTED BY SERVICES INTERRUPTIONS. THE TOWN OF PITTSBORO WILL NOT APPROVE SERVICE INTERRUPTIONS UNTIL PROOF THAT PROPER CUSTOMER NOTIFICATION HAS BEEN PROVIDED.
- EXISTING VALVES SHALL BE OPERATED ONLY WITH A REPRESENTATIVE OF THE TOWN OF PITTSBORO PRESENT.

**MHAworks**  
 PLANNING ARCHITECTURE INTERIORS  
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Chatham Park  
**Hospice and Palliative  
 Inpatient Care Facility**  
 Pittsboro, NC



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SHEET NAME:  
**LEGEND AND  
 GENERAL NOTES**

PHASE:  
**CONSTRUCTION DOCUMENTS**

#	REVISION	DATE
1	LEED	02-12-2015
2	EROSION CONTROL	03-26-2015
3	TOWN OF PITTSBORO	04-17-2015
4	TOWN OF PITTSBORO	05-18-2015

ISSUE DATE: **10-31-2014**  
 PROJECT #: **13037**  
 DRAWN BY: **BTO/KCG**  
 SHEET NUMBER  
**C-001**



**EXISTING LEGEND**

CATCH BASIN		CB
EXISTING IRON PIPE		EIP
WATER METER		WM
EDGE OF PAVEMENT		EOP
CURB & GUTTER		CG
CATCH BASIN		CB
SEWER MANHOLE		SM
WATER MANHOLE		WM
UTILITY POLE		UP
TREE		XX" TREE
LEFT TURN ARROW		
RIGHT-OF-WAY		
ADJOINER		
EXISTING BOUNDARY		
EASEMENT		
STORM DRAINAGE		SS
SANITARY SEWER		SS
CURB AND GUTTER		
TREELINE		
OVERHEAD ELECTRIC		OHE

**EXISTING CONDITION NOTES:**

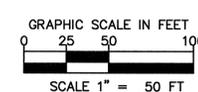
1. AREAS COMPUTED BY COORDINATE METHOD.
2. BASIS OF BEARING NC GRID NAD 83 (2007).
3. THIS PROPERTY IS NOT LOCATED IN A FLOOD AREA PER FIRM COMMUNITY PANEL NUMBER MAP #57109752004, PANEL 9572, AS LAST PUBLISHED AND REVISED 02/02/2007.
4. ALL DISTANCES ARE HORIZONTAL FOUND DISTANCES.
5. NO EASEMENT INFORMATION WAS FOUND FOR THE SANITARY SEWER LINE SHOWN HEREON.
6. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY BE SUBJECT TO ANY MATTERS THAT A FULL TITLE SEARCH WOULD DISCLOSE.
7. A PORTION OF CHATHAM COUNTY PARCEL NUMBERS (PIN) 9752-27-6874
8. VERTICAL DATUM IS NAVD 88.

**DEMOLITION NOTES:**

1. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF PITTSBORO TO OBTAIN ALL NECESSARY DEMOLITION PERMITS PRIOR TO THE START OF ANY DEMOLITION WORK.
2. SAW CUT AND REMOVE CONCRETE CURB TO LIMITS REQUIRED FOR NEW WORK.
3. REMOVE VEGETATION AND GRASS IN AREAS TO RECEIVE NEW ASPHALT AND CONCRETE PAVEMENTS.
4. DEMOLITION MATERIALS SHALL BE PROPERLY DISPOSED OF OFF SITE PER STATE REGULATIONS.
5. ALL PRIMARY UTILITIES DISCOVERED DURING DEMOLITION OPERATIONS THAT SERVE ACTIVITIES OTHER THAN THE PROJECT SITE SHALL BE PROPERLY PRESERVED AND PROTECTED.
6. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER AND ENGINEER ANY UNFORESEEN OR ADVERSE CONDITIONS, INCLUDING UNCHARTED UTILITIES, DISCOVERED DURING DEMOLITION OPERATIONS.
7. REMOVE/DEMOLISH/ABANDON AFTER EROSION CONTROL MEASURES ARE IN PLACE AND APPROVAL OF THE ENGINEER.
8. SUBSURFACE FEATURES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UTILITY LOCATIONS AND DEPTHS.

**CONSTRUCTION SEQUENCE OF ACCESS DRIVE AND FREEDOM DRIVE:**

1. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF PITTSBORO TO OBTAIN ALL NECESSARY PERMITS PRIOR TO THE START OF ANY WORK.
2. FREEDOM DRIVE IS BEING DESIGNED AND PERMITTED BY OTHERS. CONSTRUCTION OF THE HOSPICE ACCESS DRIVE SHALL BE COORDINATED WITH THE CONSTRUCTION OF FREEDOM DRIVE.
3. DO NOT INSTALL ACCESS DRIVE UNTIL EROSION CONTROL MEASURES FOR FREEDOM DRIVE HAVE BEEN INSTALLED AND INSPECTED BY CHATHAM COUNTY.



**DEMOLITION LEGEND**

	AREA OF TREES TO BE REMOVED
	LIMITS OF TOPOGRAPHIC SURVEY

THIS SHEET IS PROVIDED FOR INFORMATION ONLY

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**SURVEY NOTE:**  
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SHEET NAME:  
**EXISTING CONDITIONS AND  
DEMOLITION PLAN**

PHASE:  
**CONSTRUCTION DOCUMENTS**

#	REVISION	DATE
1	LEED	02-12-2015
2	EROSION CONTROL	03-26-2015
3	TOWN OF PITTSBORO	04-17-2015
4	TOWN OF PITTSBORO	05-18-2015

ISSUE DATE: **10-31-2014**  
PROJECT #: **13037**  
DRAWN BY: **BTO/KCG**

SHEET NUMBER  
**C-100**

RISER BASIN #1				
TOTAL DISTURBED DRAINAGE AREA	3,250	AC		
25-YEAR PEAK FLOW	13.44	CFS		
SURFACE AREA REQUIRED	5,846	SF		
SURFACE AREA PROVIDED	11,250*	SF		
VOLUME REQUIRED	11,700	CF		
VOLUME PROVIDED	24,123*	CF		
STORAGE DEPTH	2.50*	FT		
TOP OF BERM		SF	426.00	ELEV
EMGY. SPILLWAY LENGTH	16	FT	424.50	ELEV
BOTTOM OF BASIN	8,112*	SF	422.00	ELEV
SKIMMER SIZE	3	IN		
SKIMMER ORIFICE DIAMETER	3	IN		
DEWATERING TIME	2.32	DAYS		

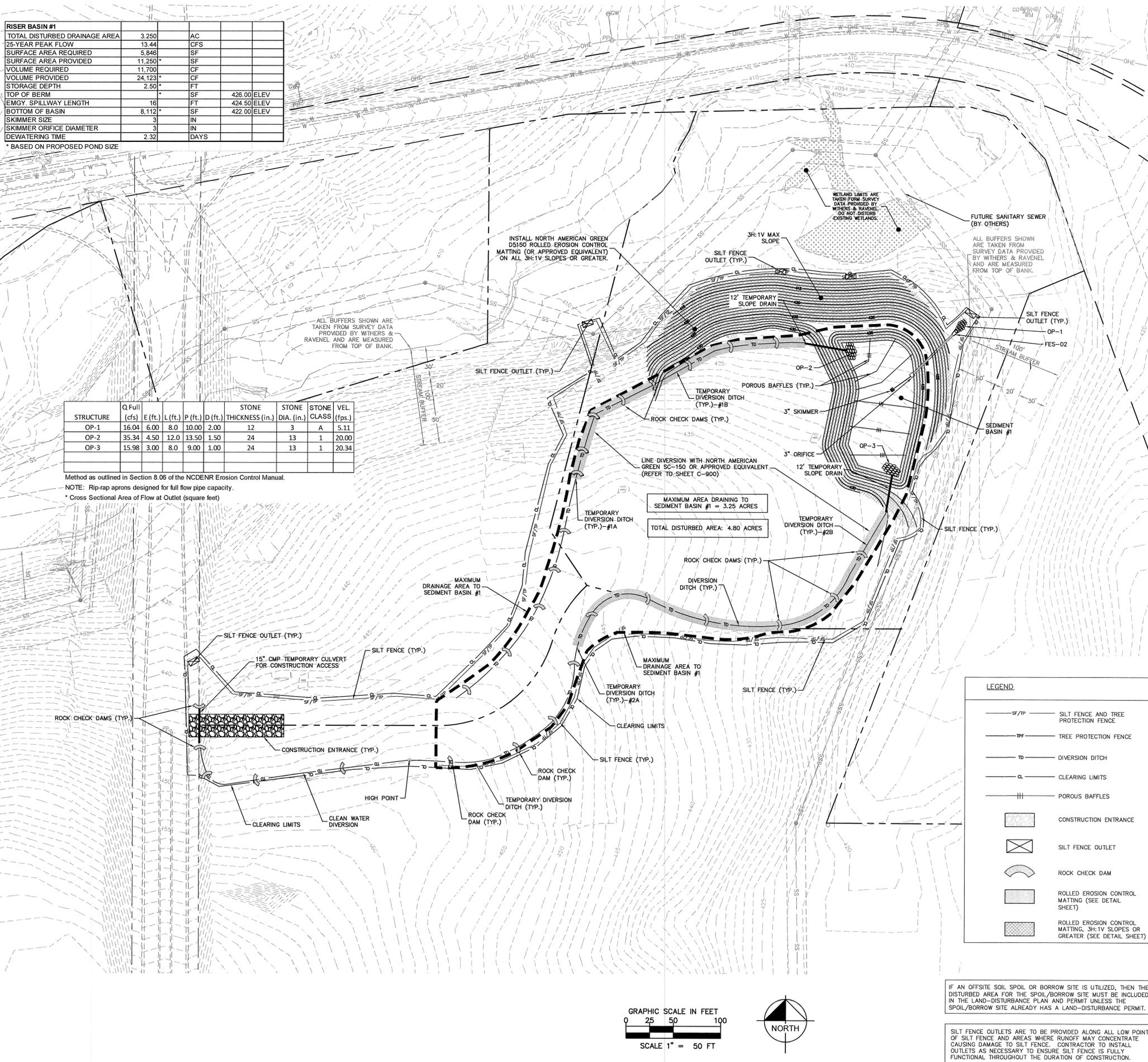
\* BASED ON PROPOSED POND SIZE

STRUCTURE	Q Full (cfs)	E (ft.)	L (ft.)	P (ft.)	D (ft.)	STONE THICKNESS (in.)	STONE DIA. (in.)	STONE CLASS	VEL. (fps.)
OP-1	16.04	6.00	8.0	10.00	2.00	12	3	A	5.11
OP-2	35.34	4.50	12.0	13.50	1.50	24	13	1	20.00
OP-3	15.98	3.00	8.0	9.00	1.00	24	13	1	20.34

Method as outlined in Section 8.06 of the NCDENR Erosion Control Manual.

NOTE: Rip-rap aprons designed for full flow pipe capacity.

\* Cross Sectional Area of Flow at Outlet (square feet)

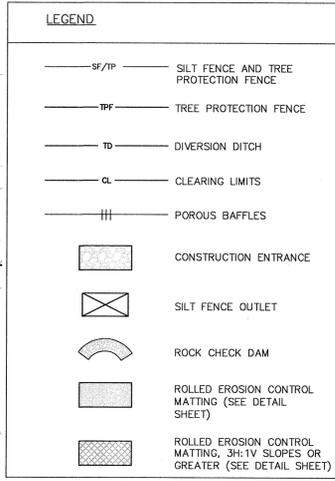


**CONSTRUCTION SEQUENCE:**

1. INSTALL TREE PROTECTION FENCING IN ACCORDANCE WITH THE APPROVED SITE PLAN.
2. SCHEDULE AND HOLD A PRE-CONSTRUCTION CONFERENCE PRIOR TO BEGINNING ANY LAND-DISTURBING ACTIVITIES. THIS CONFERENCE SHOULD BE ATTENDED BY A REPRESENTATIVE OF THE FINANCIALLY RESPONSIBLE PARTY AND/OR THE GENERAL CONTRACTOR, GRADING SUB-CONTRACTOR, EROSION CONTROL SUB-CONTRACTOR AND THE NCDENR EROSION CONTROL INSPECTOR.
3. OBTAIN LAND DISTURBING PERMIT AND PLACARD, AND POST THE PLACARD ON SITE.
4. OBTAIN AN APPROVED (STAMPED) SEDIMENT & EROSION CONTROL PLAN AND KEEP IT ON SITE, EITHER IN THE INSPECTION BOX, CONSTRUCTION OFFICE OR WITH THE CONTRACTOR.
5. INSTALL CONSTRUCTION ENTRANCE/EXIT, SILT FENCING, DIVERSION DITCHES, SEDIMENT BASINS, AND OTHER INITIAL EROSION CONTROL MEASURES AS SPECIFIED IN THE PLAN. STABILIZE BASINS AND DIVERSIONS IMMEDIATELY UPON CONSTRUCTION.
6. NOTIFY THE NCDENR EROSION CONTROL INSPECTOR & ENGINEER AFTER MEASURES HAVE BEEN INSTALLED AND PROJECT HAS STARTED.
7. BEGIN CLEARING AND GRADING OF THE SITE ACCORDING TO THE APPROVED SEDIMENT & EROSION CONTROL PLAN, MAINTAINING EROSION CONTROL MEASURES AS NECESSARY. EROSION CONTROL MEASURES SHALL BE RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 50% OF DESIGN DEPTH.
8. PROVIDE ALL DISTURBED AREAS WITH GRASS COVER AFTER COMPLETION OF ANY PHASE OF CLEARING, GRUBBING OR GRADING.
9. INSTALL THE REMAINING PROPOSED STORM DRAINAGE SYSTEM AND OTHER UNDERGROUND UTILITIES, INLET PROTECTION, AND SUB-BASE FOR THE PARKING AREA AND DRIVE AISLES.
10. USE PIPE INLET PROTECTION ON ANY OPEN TRENCHES AT DAYS/WEEK END IN ORDER TO PREVENT OFFSITE SEDIMENTATION.
11. INSPECT SITE ONCE A WEEK AND AFTER EVERY RAINFALL EVENT.
12. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES EVERY SEVEN (7) CALENDAR DAYS AND AFTER EVERY RAINFALL EVENT. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPLACED IMMEDIATELY.
13. COORDINATE WITH THE ENGINEER & NCDENR SEDIMENT & EROSION CONTROL OFFICE PRIOR TO THE REMOVAL OF ANY EROSION CONTROL MEASURE. ALL RIP RAP SHALL BE REPLISHED AS NECESSARY AND FREE OF SEDIMENT.
14. AT THE CONCLUSION OF BUILDING OR IF LAND-DISTURBING ACTIVITY IS STOPPED, TEMPORARY OR PERMANENT VEGETATIVE COVER SHALL BE INSTALLED.
15. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL THE ENGINEER & NCDENR EROSION CONTROL INSPECTOR FOR INSPECTION.
16. DIG SEDIMENT WITHIN RISER BASIN OUT AND INSTALL BIORETENTION MEDIA AS SHOWN ON DETAILS.
17. IF THE SITE IS APPROVED, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES, SEED OUT OR STABILIZE ANY RESULTING BARE AREAS WITH PERMANENT VEGETATION.

**GENERAL EROSION AND SEDIMENT CONTROL NOTES:**

1. REFER TO EXISTING CONDITIONS PLAN.
2. EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE OWNERS GEOTECHNICAL ENGINEER.
3. ALL CONSTRUCTION SHALL COMPLY WITH NCDENR STANDARDS AND SPECIFICATIONS.
4. FOOTING EXCAVATION SHALL BE CONTINUOUSLY DEWATERED THROUGH SEDIMENT BAG OR DIRECTED INTO SEDIMENT BASIN TO PREVENT SETTLEMENT AND SEDIMENT DEPOSITION. ENSURE THAT THE BUILDING PAD IS CONSTRUCTED WITH SUITABLE MATERIAL AS PER THE GEOTECHNICAL ENGINEERS DIRECTION.
5. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
6. STABILIZE DISTURBED AREAS WITH TEMPORARY VEGETATION. DENUDED AREAS MUST BE SEED WITH FOURTEEN (14) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
7. ENSURE THAT ALL TEMPORARY DIVERSIONS ARE INSTALLED WITH POSITIVE DRAINAGE AND SHALL OPPOSE EXISTING GRADE WHEN NECESSARY TO PROVIDE A MINIMUM OF 0.5% LONGITUDINAL SLOPE.
8. ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEEP AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
9. INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
10. INSTALL ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT RUNOFF.



IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE SPOIL/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL/BORROW SITE ALREADY HAS A LAND-DISTURBANCE PERMIT.

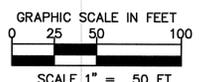
SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

GROUND COVER STABILIZATION MUST MEET SPECIFIC TIME FRAMES. SLOPES (INCLUDING CUTS, FILLS, AND DITCH BANKS) THAT ARE STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL LEFT EXPOSED WILL WITHIN SEVEN (7) CALENDAR DAYS AFTER COMPLETION OF ANY PHASE OF GRADING, BE PROVIDED WITH GROUND COVER. SLOPES THAT ARE 3 HORIZONTAL TO 1 VERTICAL OR FLATTER WILL BE PROVIDED WITH GROUND COVER WITHIN FOURTEEN (14) CALENDAR DAYS.

THIS SHEET IS PROVIDED FOR INFORMATION ONLY

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF PITTSBORO AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

SURVEY NOTE:  
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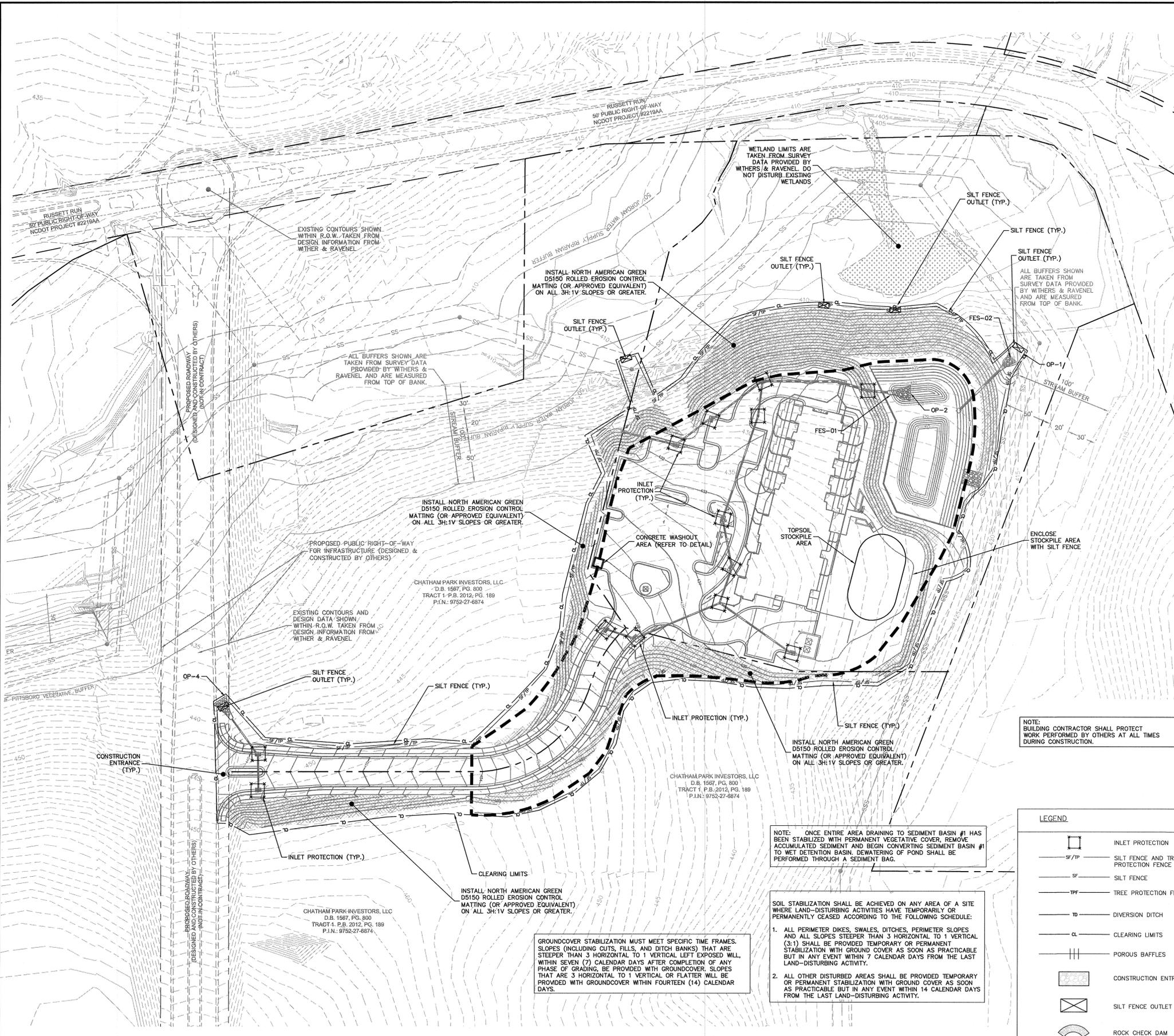
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SHEET NAME:  
**PHASE 1 EROSION CONTROL PLAN**

PHASE:  
**CONSTRUCTION DOCUMENTS**

#	REVISION	DATE
1	LEED	02-12-2015
2	EROSION CONTROL	03-26-2015
3	TOWN OF PITTSBORO	04-17-2015
4	TOWN OF PITTSBORO	05-18-2015

ISSUE DATE: **10-31-2014**  
PROJECT #: **13037**  
DRAWN BY: **BTO/KCG**  
SHEET NUMBER  
**C-200**



**MAINTENANCE NOTES**

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED AND MAINTAINED DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. ANY SEDIMENT THAT HAS BEEN TRANSPORTED BEYOND THE PROJECT LIMITS SHALL BE REMOVED. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

**CONSTRUCTION ENTRANCE:**

INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.

**SILT FENCE:**

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

**SILT FENCE GRAVEL OUTLET:**

INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.

**OUTLET STABILIZATION STRUCTURE:**

INSPECT RIP RAP STRUCTURES WEEKLY AND AFTER SIGNIFICANT (0.5 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE. OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

**BLOCK AND GRAVEL INLET PROTECTION:**

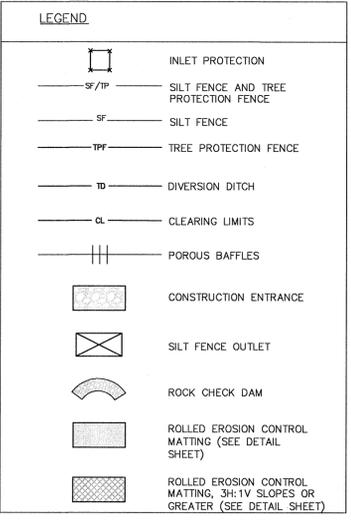
INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

**GENERAL EROSION AND SEDIMENT CONTROL NOTES:**

- REFER TO EXISTING CONDITIONS PLAN.
- EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE OWNERS GEOTECHNICAL ENGINEER.
- ALL CONSTRUCTION SHALL COMPLY WITH NCDENR STANDARDS AND SPECIFICATIONS.
- FOOTING EXCAVATION SHALL BE CONTINUOUSLY DEWATERED TO PREVENT SETTLEMENT AND SEDIMENT DEPOSITION. ENSURE THAT THE BUILDING PAD IS CONSTRUCTED WITH SUITABLE MATERIAL AS PER THE GEOTECHNICAL ENGINEERS DIRECTION.
- VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
- STABILIZE DISTURBED AREAS WITH TEMPORARY VEGETATION. DENUDED AREAS MUST BE SEEDED WITH FOURTEEN (14) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
- ENSURE THAT ALL TEMPORARY DIVERSIONS ARE INSTALLED WITH POSITIVE DRAINAGE AND SHALL OPPOSE EXISTING GRADE WHEN NECESSARY TO PROVIDE A MINIMUM OF 0.5% LONGITUDINAL SLOPE.
- ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEEPED AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
- INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
- INSTALL ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT RUNOFF.

**EROSION CONTROL PHASE II CONSTRUCTION SEQUENCE:**

- DO NOT BEGIN PHASE 2 CONSTRUCTION UNTIL PHASE 1 HAS BEEN APPROVED BY ENGINEER AND NCDENR.
- BEGIN INSTALLATION OF UTILITIES, INCLUDING STORMWATER PIPING, WATER, SEWER, AND OTHER UTILITY LINES. INSTALL INLET PROTECTION ON STORM SEWER.
- COMPLETE UTILITY INSTALLATION AND SOILS COMPACTION.
- INSTALL CURB AND GUTTER AND BASE STONE. PAVE SITE.
- PLACE TOPSOIL AND PROVIDE PERMANENT SEEDING AS INDICATED IN THE SEEDING SPECIFICATIONS.
- ONCE ALL AREAS HAVE BEEN STABILIZED, CONTACT OWNER'S ENGINEER AND NCDENR FOR SITE CLOSOUT INSPECTION.
- AFTER APPROVAL FROM THE ENGINEER AND NCDENR EROSION CONTROL INSPECTOR, REMOVE ALL REMAINING EROSION CONTROL MEASURES AND STABILIZE ANY REMAINING DISTURBED AREAS. DO NOT REMOVE ANY EROSION CONTROL MEASURES WITHOUT APPROVAL OF THE ENGINEER AND INSPECTOR.



IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE SPOIL/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL/BORROW SITE ALREADY HAS A LAND-DISTURBANCE PERMIT.

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF PITTSBORO AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

**SURVEY NOTE:**

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**NOTE:** ONCE ENTIRE AREA DRAINING TO SEDIMENT BASIN #1 HAS BEEN STABILIZED WITH PERMANENT VEGETATIVE COVER, REMOVE ACCUMULATED SEDIMENT AND BEGIN CONVERTING SEDIMENT BASIN #1 TO WET DETENTION BASIN. DEWATERING OF POND SHALL BE PERFORMED THROUGH A SEDIMENT BAG.

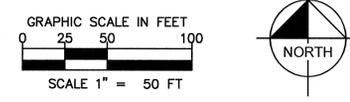
**SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:**

- ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

**GROUND COVER STABILIZATION MUST MEET SPECIFIC TIME FRAMES, SLOPES (INCLUDING CUTS, FILLS, AND DITCH BANKS) THAT ARE STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL LEFT EXPOSED WILL, WITHIN SEVEN (7) CALENDAR DAYS AFTER COMPLETION OF ANY PHASE OF GRADING, BE PROVIDED WITH GROUND COVER. SLOPES THAT ARE 3 HORIZONTAL TO 1 VERTICAL OR FLATTER WILL BE PROVIDED WITH GROUND COVER WITHIN FOURTEEN (14) CALENDAR DAYS.**

STRUCTURE	Q.Full (cfs)	E (ft.)	L (ft.)	P (ft.)	D (ft.)	STONE THICKNESS (in.)	STONE DIA. (in.)	STONE CLASS	VEL. (fps)
OP-4	17.74	3.75	7.5	8.75	1.25	22	6	8	14.45

Method as outlined in Section 8.06 of the NCDENR Erosion Control Manual.  
 NOTE: Rip-rap aprons designed for full flow pipe capacity.  
 \* Cross Sectional Area of Flow at Outlet (square feet)



Chatham Park  
**Hospice and Palliative  
 Inpatient Care Facility**  
 Pittsboro, NC



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**SHEET NAME:**  
 PHASE 2 EROSION CONTROL PLAN

**PHASE:**  
 CONSTRUCTION DOCUMENTS

#	REVISION	DATE
1	LEED	02-12-2015
2	EROSION CONTROL	03-26-2015
3	TOWN OF PITTSBORO	04-17-2015
4	TOWN OF PITTSBORO	05-18-2015

**ISSUE DATE:** 10-31-2014  
**PROJECT #:** 13037  
**DRAWN BY:** BTO/KGG  
 SHEET NUMBER  
**C-201**

ALL BUFFERS SHOWN ARE TAKEN FROM SURVEY DATA PROVIDED BY WITHERS & RAVENEL AND ARE MEASURED FROM TOP OF BANK.

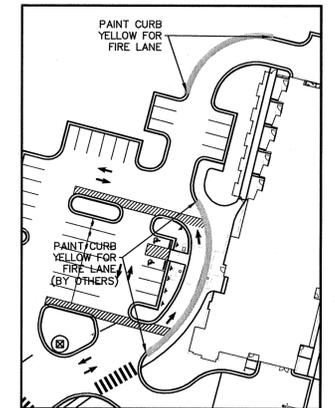
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**LEGEND**

- PAINTED TRAFFIC ARROW
- CONCRETE SIDEWALK
- HEAVY DUTY CONCRETE
- LANDSCAPE AREA
- PROPOSED PARKING COUNT
- HEAVY DUTY ASPHALT PAVEMENT
- REGULAR DUTY ASPHALT PAVEMENT
- SPILLING CURB AND GUTTER
- PAVERS (REFER TO HARDSCAPE PLAN)

**SITE PLAN NOTES:**

1) BUILDING SIGNAGE IS NOT INCLUDED WITHIN THIS SITE PACKAGE AND MAY BE SUBMITTED AND PERMITTED SEPARATELY UNDER SEPARATE COVER.



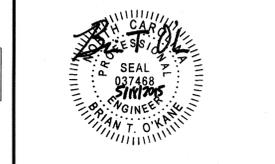
THE LEVEL OF CONSTRUCTION ACTIVITY AND DISTURBANCE WILL REQUIRE AN APPROVED EROSION AND SEDIMENTATION CONTROL PLAN BY CHATHAM COUNTY.

SITE DATA	
<b>PROPERTY INFORMATION</b>	
EXISTING ZONING: PDD	
EXISTING USE: VACANT	
TOTAL SITE AREA:	5.16 ACRES
BUILDING DISTANCE TO PROPERTY LINE:	FRONT = 153.9' (WEST) SIDE = 282.7' (NORTH) SIDE = 66.6' (SOUTH) REAR = 192.7' (EAST)
<b>PROJECT DATA:</b>	
PROPOSED USE:	HOSPICE BUILDING
PROJECT AREA (LIMITS OF WORK):	4.80 AC
PROPOSED # OF BUILDINGS:	1 (11,000 GSF)
BUILDING LOT COVERAGE:	11.5% (11,000 SF/95,832 SF)
BUILDING HEIGHT:	24 FEET
VEHICULAR SURFACE AREA(NEW):	37.2% (35,641 SF/95,832 SF)
PARKING:	REQUIRED: 44 SPACES
	PROVIDED: 44 SPCS
OPEN SPACE (PER PPD): PROVIDED:	34% (0.68AC/2.0AC)
	REQUIRED: 2/8TH AC /1000 GSF = 0.55 AC
SITE IMPERVIOUS AREA:	53.6% (102,172SF/95,832SF)

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Pittsboro, NC



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**SHEET NAME:**

SITE PLAN

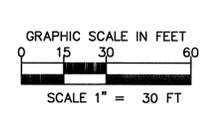
**PHASE:**

CONSTRUCTION DOCUMENTS

#	REVISION	DATE
1	LEED	02-12-2015
2	EROSION CONTROL	03-26-2015
3	TOWN OF PITTSBORO	04-17-2015
4	TOWN OF PITTSBORO	05-18-2015

ISSUE DATE: 10-31-2014  
PROJECT #: 13037  
DRAWN BY: BTO/KCG  
SHEET NUMBER  
**C-300**

MATCHLINE - SEE SHEET C-301 SITE PLAN



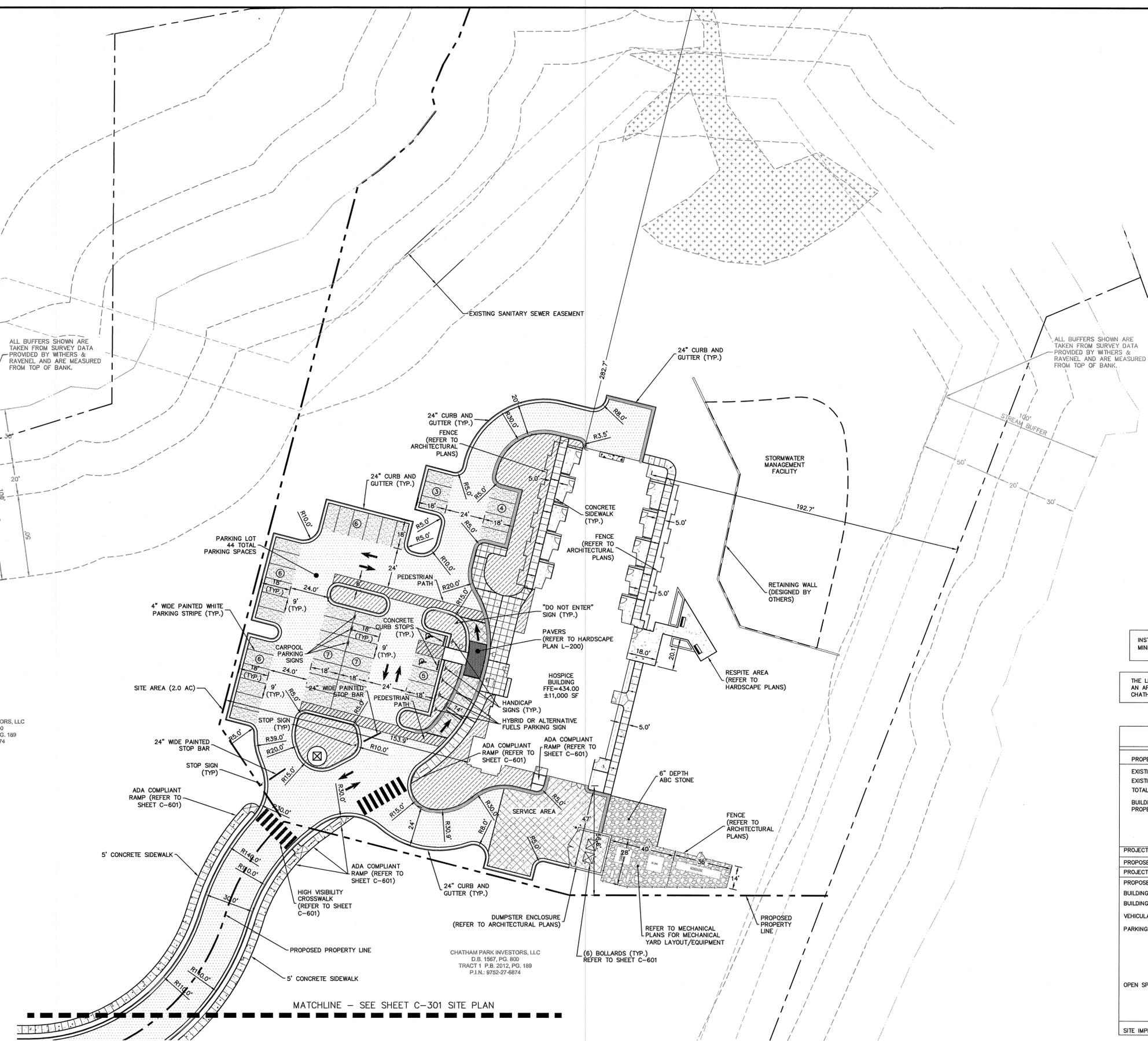
ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF PITTSBORO AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

**SURVEY NOTE:**

ALL EXISTING SITE AND TOPOGRAPHIC INFORMATION SHOWN WITHIN LIMITS OF TOPOGRAPHIC SURVEY BASED ON AN ALTA/ACSM LAND TITLE SURVEY DATED AUGUST 13, 2014. PROVIDED BY WITHERS & RAVENEL. 115 MACKENAN DR. CARY NC 27511. PHONE 919-469-3340

CHATHAM PARK INVESTORS, LLC  
D.B. 1567, PG. 800  
TRACT 1 P.B. 2012, PG. 189  
P.L.N.: 9752-27-6874

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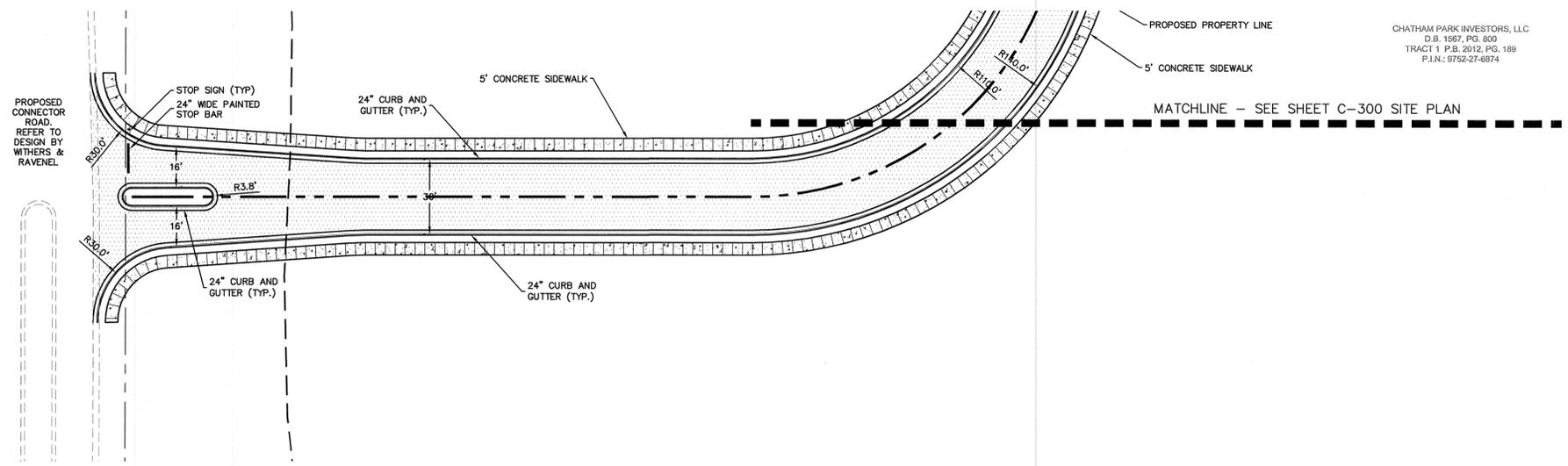


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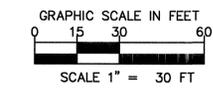
	PAINTED TRAFFIC ARROW
	CONCRETE SIDEWALK
	HEAVY DUTY CONCRETE
	LANDSCAPE AREA
	PROPOSED PARKING COUNT
	HEAVY DUTY ASPHALT PAVEMENT
	REGULAR DUTY ASPHALT PAVEMENT
	SPILLING CURB AND GUTTER
	PAVERS (REFER TO LANDSCAPE PLAN)

**SITE PLAN NOTES:**

1) BUILDING SIGNAGE IS NOT INCLUDED WITHIN THIS SITE PACKAGE AND MAY BE SUBMITTED AND PERMITTED SEPARATELY UNDER SEPARATE COVER.



CHATHAM PARK INVESTORS, LLC  
 D.B. 1557, PG. 300  
 TRACT 1 P.B. 2012, PG. 189  
 P.I.N.: 9752-27-6874



SITE DATA		
<b>PROPERTY INFORMATION</b>		
EXISTING ZONING: PDD		
EXISTING USE: VACANT		
TOTAL SITE AREA:	5.16 ACRES	
BUILDING DISTANCE TO PROPERTY LINE:	FRONT = 153.9' (WEST) SIDE = 282.7' (NORTH) SIDE = 66.6' (SOUTH) REAR = 192.7' (EAST)	
<b>PROJECT DATA:</b>		
PROPOSED USE:	HOSPICE BUILDING	
PROJECT AREA (LIMITS OF WORK):	4.80 AC	
PROPOSED # OF BUILDINGS	1 (11,000 GSF)	
BUILDING LOT COVERAGE:	11.5% (11,000 SF/95,832 SF)	
BUILDING HEIGHT:	24 FEET	
VEHICULAR SURFACE AREA(NEW):	37.2% (35,641 SF/95,832 SF)	
PARKING:	STANDARD	
	REQUIRED: 44 SPCS 1 SPACE / 250 SF	PROVIDED: 44 SPCS
HANDICAP:	2 SPACES	2 SPACES (1 VAN ACCESSIBLE SPACE, 1 REGULAR HC SPACE)
	OPEN SPACE (PER PDD): PROVIDED:	34% (0.68AC/2.0AC)
REQUIRED:	1/10TH AC / 1000 GSF = 0.55 AC	
SITE IMPERVIOUS AREA:	53.6% (102,172SF/95,832SF)	

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF PITTSBORO AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

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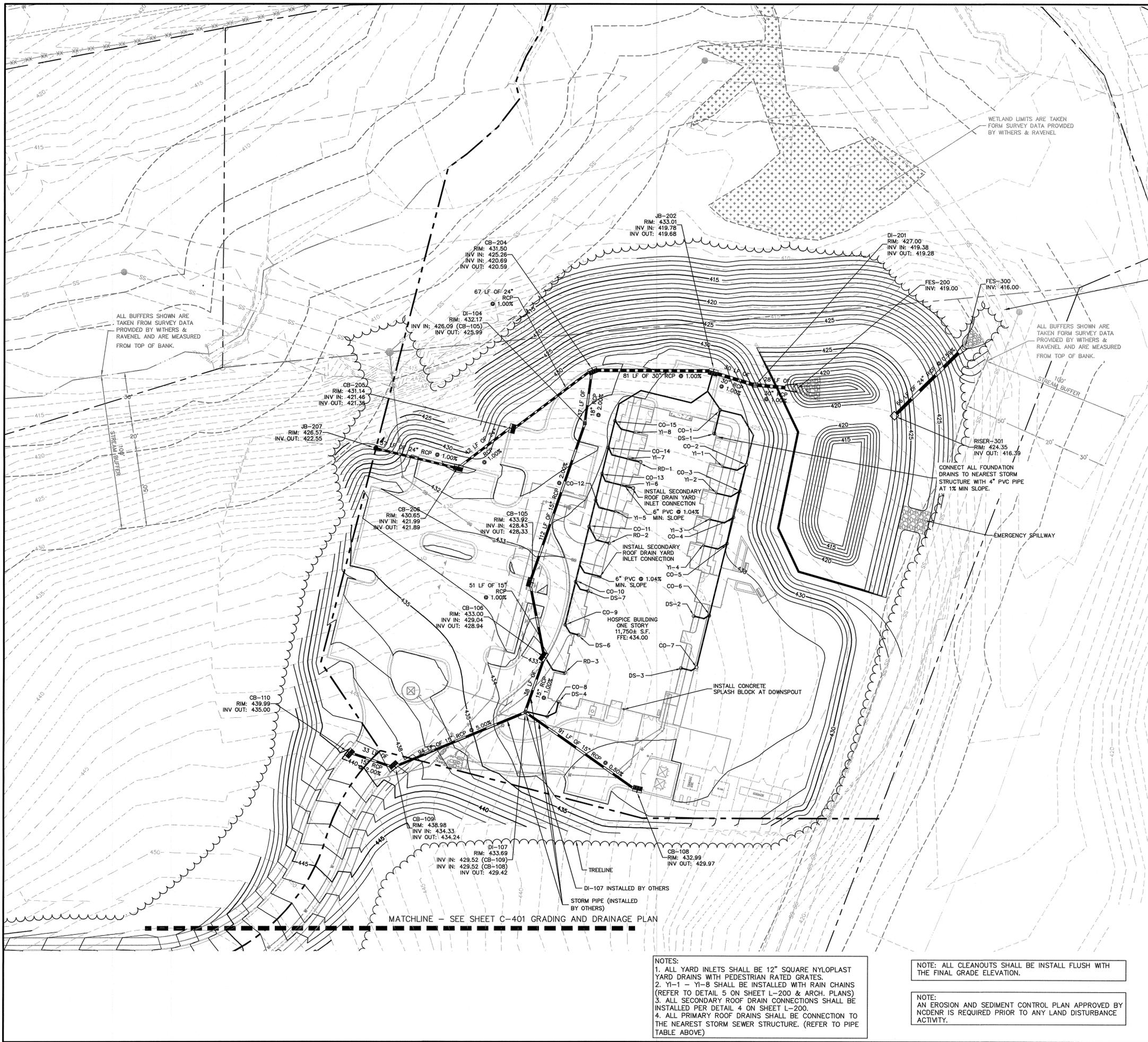
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SHEET NAME: **SITE PLAN**

PHASE: **CONSTRUCTION DOCUMENTS**

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3	TOWN OF PITTSBORO	04-17-2015
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ISSUE DATE: **10-31-2014**  
 PROJECT #: **13037**  
 DRAWN BY: **BTO/KCG**  
 SHEET NUMBER  
**C-301**



**LEGEND**

— 100 —	PROPOSED CONTOUR
- - - 100 - - -	EXISTING CONTOUR
+ 70.50	PROPOSED SPOT ELEVATION
■	CATCH BASIN
▤	DROP INLET
— —	RCP PIPE
— — —	LIMITS OF DISTURBANCE
— — —	SILT FENCE/TREE PROTECTION FENCE
CS	CONTROL STRUCTURE
CB	CATCH BASIN
HP	HIGH POINT
LP	LOW POINT
TC	TOP OF CURB
BC	BOTTOM OF CURB
HPS	HIGH POINT OF SWALE
YI	YARD INLET

GRADE 10' WIDE X 1' DEEP SWALE ACROSS FUTURE SANITARY SEWER EASEMENT. STABILIZE WITH TEMPORARY MATTING. REPLACE TEMPORARY MATTING WITH P-300 PERMANENT MATTING OR APPROVED EQUIVALENT TO STABILIZE AREA (INSTALL SILT FENCE AROUND SWALE DURING CONSTRUCTION).

**GRADING SCOPE NOTES:**  
 1. SUB-GRADE SHALL BE ESTABLISHED BY THE OTHERS.  
 2. 6" MINIMUM PLACEMENT OF TOPSOIL IS TO BE PERFORMED ON ALL DISTURBED AREA PER THE PROJECT SPECIFICATIONS WITHIN THIS CONTRACT.

ALL BUFFERS SHOWN ARE TAKEN FROM SURVEY DATA PROVIDED BY WITHERS & RAVENEL AND ARE MEASURED FROM TOP OF BANK.

ALL BUFFERS SHOWN ARE TAKEN FROM SURVEY DATA PROVIDED BY WITHERS & RAVENEL AND ARE MEASURED FROM TOP OF BANK.

CONNECT ALL FOUNDATION DRAINS TO NEAREST STORM STRUCTURE WITH 4" PVC PIPE AT 1% MIN SLOPE.

INSTALL SECONDARY ROOF DRAIN YARD INLET CONNECTION  
 6" PVC @ 1.04% MIN. SLOPE

INSTALL SECONDARY ROOF DRAIN YARD INLET CONNECTION  
 6" PVC @ 1.04% MIN. SLOPE

INSTALL CONCRETE SPLASH BLOCK AT DOWNSPOUT

MATCHLINE - SEE SHEET C-401 GRADING AND DRAINAGE PLAN

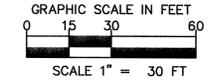
**NOTES:**  
 1. ALL YARD INLETS SHALL BE 12" SQUARE NYLOPLAST YARD DRAINS WITH PEDESTRIAN RATED GRATES.  
 2. YI-1 - YI-8 SHALL BE INSTALLED WITH RAIN CHAINS (REFER TO DETAIL 5 ON SHEET L-200 & ARCH. PLANS)  
 3. ALL SECONDARY ROOF DRAIN CONNECTIONS SHALL BE INSTALLED PER DETAIL 4 ON SHEET L-200.  
 4. ALL PRIMARY ROOF DRAINS SHALL BE CONNECTION TO THE NEAREST STORM SEWER STRUCTURE. (REFER TO PIPE TABLE ABOVE)

NOTE: ALL CLEANOUTS SHALL BE INSTALL FLUSH WITH THE FINAL GRADE ELEVATION.

NOTE: AN EROSION AND SEDIMENT CONTROL PLAN APPROVED BY NCDENR IS REQUIRED PRIOR TO ANY LAND DISTURBANCE ACTIVITY.

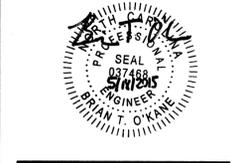
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**SHEET NAME:**  
 GRADING AND DRAINAGE PLAN

**PHASE:**  
 CONSTRUCTION DOCUMENTS

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ISSUE DATE: **10-31-2014**  
 PROJECT #: **13037**  
 DRAWN BY: **BTO/KGG**  
 SHEET NUMBER  
**C-400**

LEGEND	
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED SPOT ELEVATION
	CATCH BASIN
	DROP INLET
	RCP PIPE
	LIMITS OF DISTURBANCE
	SILT FENCE/TREE PROTECTION FENCE
	CONTROL STRUCTURE
	CATCH BASIN
	HIGH POINT
	LOW POINT
	TOP OF CURB
	BOTTOM OF CURB
	HIGH POINT OF SWALE

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-DURHAM  
 -GREENVILLE

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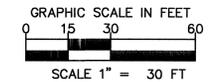
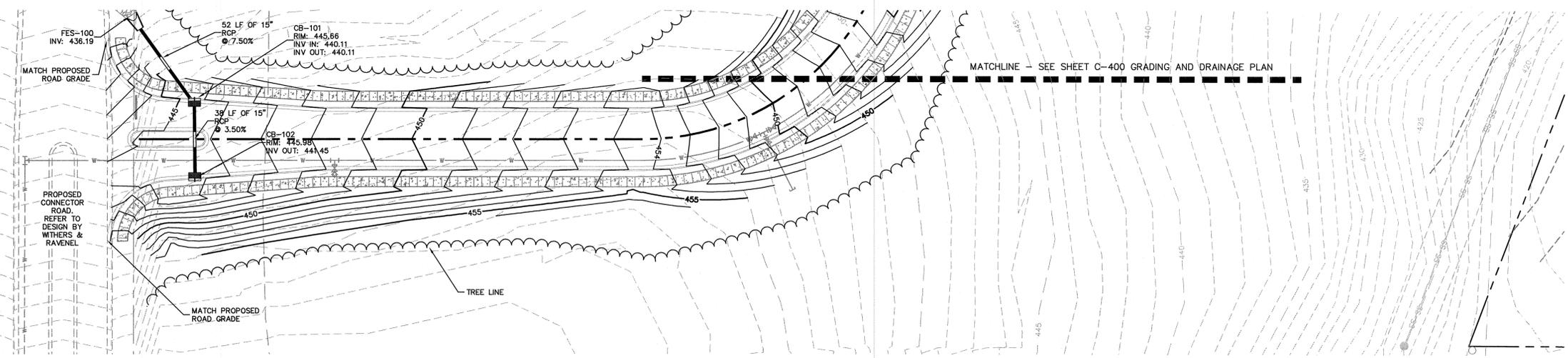
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**GRADING AND DRAINAGE PLAN**

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**CONSTRUCTION DOCUMENTS**

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SHEET NUMBER  
**C-401**

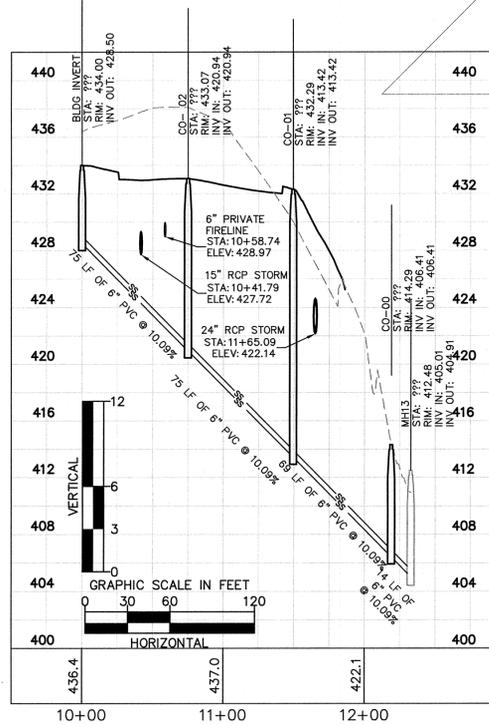
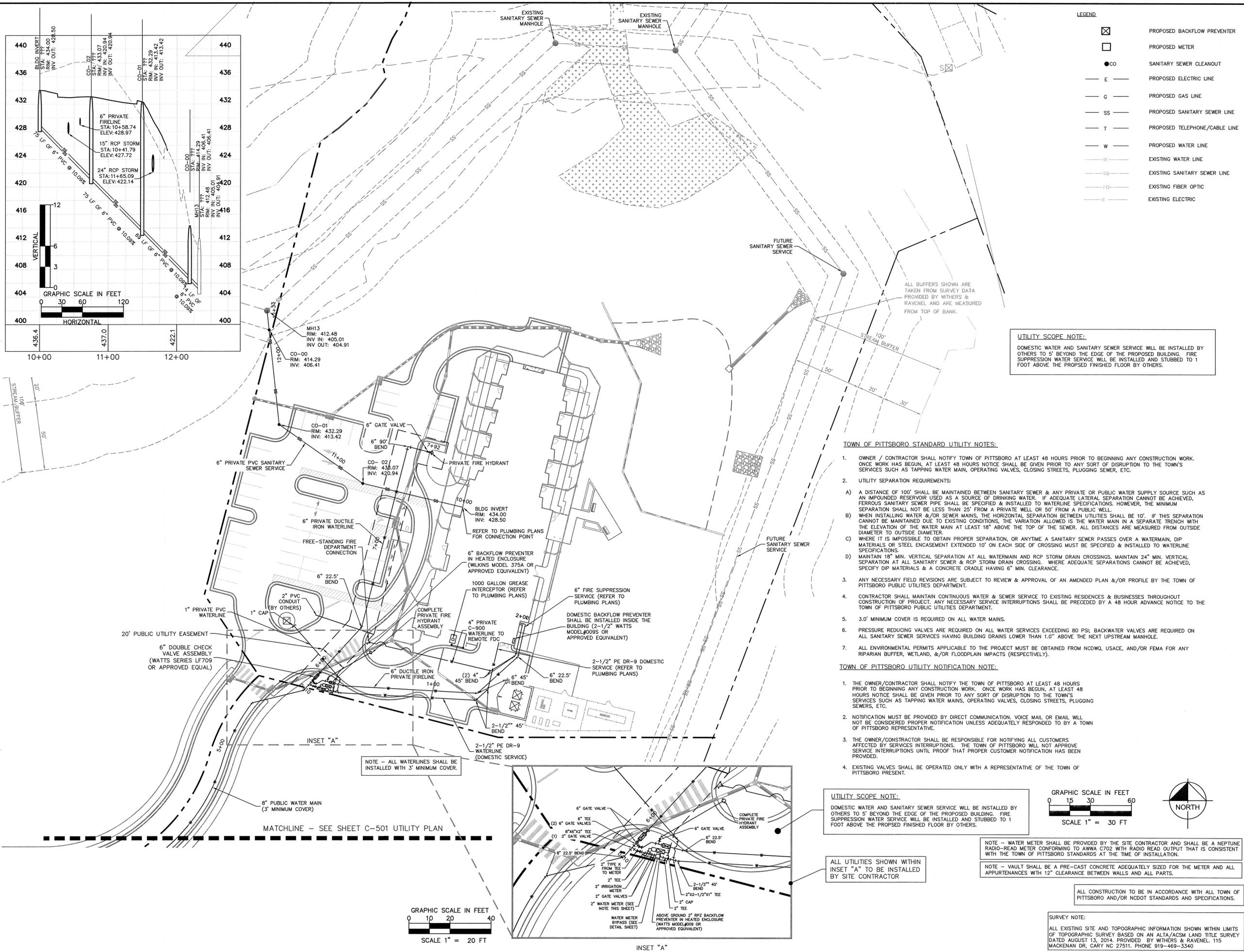


NOTE: ALL CLEANOUTS SHALL BE INSTALL FLUSH WITH THE FINAL GRADE ELEVATION.

NOTE:  
 AN EROSION AND SEDIMENT CONTROL PLAN APPROVED BY NCDENR IS REQUIRED PRIOR TO ANY LAND DISTURBANCE ACTIVITY.

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**LEGEND**

	PROPOSED BACKFLOW PREVENTER
	PROPOSED METER
	SANITARY SEWER CLEANOUT
	PROPOSED ELECTRIC LINE
	PROPOSED GAS LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED TELEPHONE/CABLE LINE
	PROPOSED WATER LINE
	EXISTING WATER LINE
	EXISTING SANITARY SEWER LINE
	EXISTING FIBER OPTIC
	EXISTING ELECTRIC

**UTILITY SCOPE NOTE:**  
DOMESTIC WATER AND SANITARY SEWER SERVICE WILL BE INSTALLED BY OTHERS TO 5' BEYOND THE EDGE OF THE PROPOSED BUILDING. FIRE SUPPRESSION WATER SERVICE WILL BE INSTALLED AND STUBBED TO 1 FOOT ABOVE THE PROPOSED FINISHED FLOOR BY OTHERS.

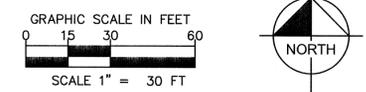
**TOWN OF PITTSBORO STANDARD UTILITY NOTES:**

- OWNER / CONTRACTOR SHALL NOTIFY TOWN OF PITTSBORO AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. ONCE WORK HAS BEGUN, AT LEAST 48 HOURS NOTICE SHALL BE GIVEN PRIOR TO ANY SORT OF DISRUPTION TO THE TOWN'S SERVICES SUCH AS TAPPING WATER MAIN, OPERATING VALVES, CLOSING STREETS, PLUGGING SEWER, ETC.
- UTILITY SEPARATION REQUIREMENTS:
  - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
  - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
  - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASUREMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
  - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN AND RCP STORM DRAIN CROSSINGS. MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE.
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE TOWN OF PITTSBORO PUBLIC UTILITIES DEPARTMENT.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 48 HOUR ADVANCE NOTICE TO THE TOWN OF PITTSBORO PUBLIC UTILITIES DEPARTMENT.
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
- ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDOW, USACE, AND/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND, &/OR FLOODPLAIN IMPACTS (RESPECTIVELY).

**TOWN OF PITTSBORO UTILITY NOTIFICATION NOTE:**

- THE OWNER/CONTRACTOR SHALL NOTIFY THE TOWN OF PITTSBORO AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. ONCE WORK HAS BEGUN, AT LEAST 48 HOURS NOTICE SHALL BE GIVEN PRIOR TO ANY SORT OF DISRUPTION TO THE TOWN'S SERVICES SUCH AS TAPPING WATER MAINS, OPERATING VALVES, CLOSING STREETS, PLUGGING SEWERS, ETC.
- NOTIFICATION MUST BE PROVIDED BY DIRECT COMMUNICATION, VOICE MAIL OR EMAIL WILL NOT BE CONSIDERED PROPER NOTIFICATION UNLESS ADEQUATELY RESPONDED TO BY A TOWN OF PITTSBORO REPRESENTATIVE.
- THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL CUSTOMERS AFFECTED BY SERVICES INTERRUPTIONS. THE TOWN OF PITTSBORO WILL NOT APPROVE SERVICE INTERRUPTIONS UNTIL PROOF THAT PROPER CUSTOMER NOTIFICATION HAS BEEN PROVIDED.
- EXISTING VALVES SHALL BE OPERATED ONLY WITH A REPRESENTATIVE OF THE TOWN OF PITTSBORO PRESENT.

**UTILITY SCOPE NOTE:**  
DOMESTIC WATER AND SANITARY SEWER SERVICE WILL BE INSTALLED BY OTHERS TO 5' BEYOND THE EDGE OF THE PROPOSED BUILDING. FIRE SUPPRESSION WATER SERVICE WILL BE INSTALLED AND STUBBED TO 1 FOOT ABOVE THE PROPOSED FINISHED FLOOR BY OTHERS.

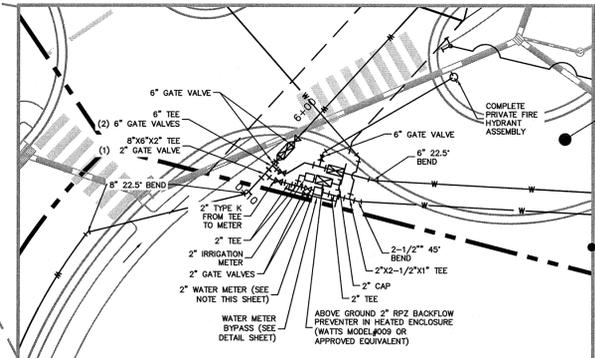
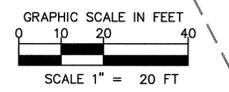


NOTE - WATER METER SHALL BE PROVIDED BY THE SITE CONTRACTOR AND SHALL BE A NEPTUNE RADIO-READ METER CONFORMING TO ANWA C702 WITH RADIO READ OUTPUT THAT IS CONSISTENT WITH THE TOWN OF PITTSBORO STANDARDS AT THE TIME OF INSTALLATION.

NOTE - VAULT SHALL BE A PRE-CAST CONCRETE ADEQUATELY SIZED FOR THE METER AND ALL APPURTENANCES WITH 12" CLEARANCE BETWEEN WALLS AND ALL PARTS.

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ALL UTILITIES SHOWN WITHIN INSET "A" TO BE INSTALLED BY SITE CONTRACTOR

NOTE - ALL WATERLINES SHALL BE INSTALLED WITH 3' MINIMUM COVER.

MATCHLINE - SEE SHEET C-501 UTILITY PLAN

Chatham Park  
**Hospice and Palliative  
Inpatient Care Facility**  
Pittsboro, NC

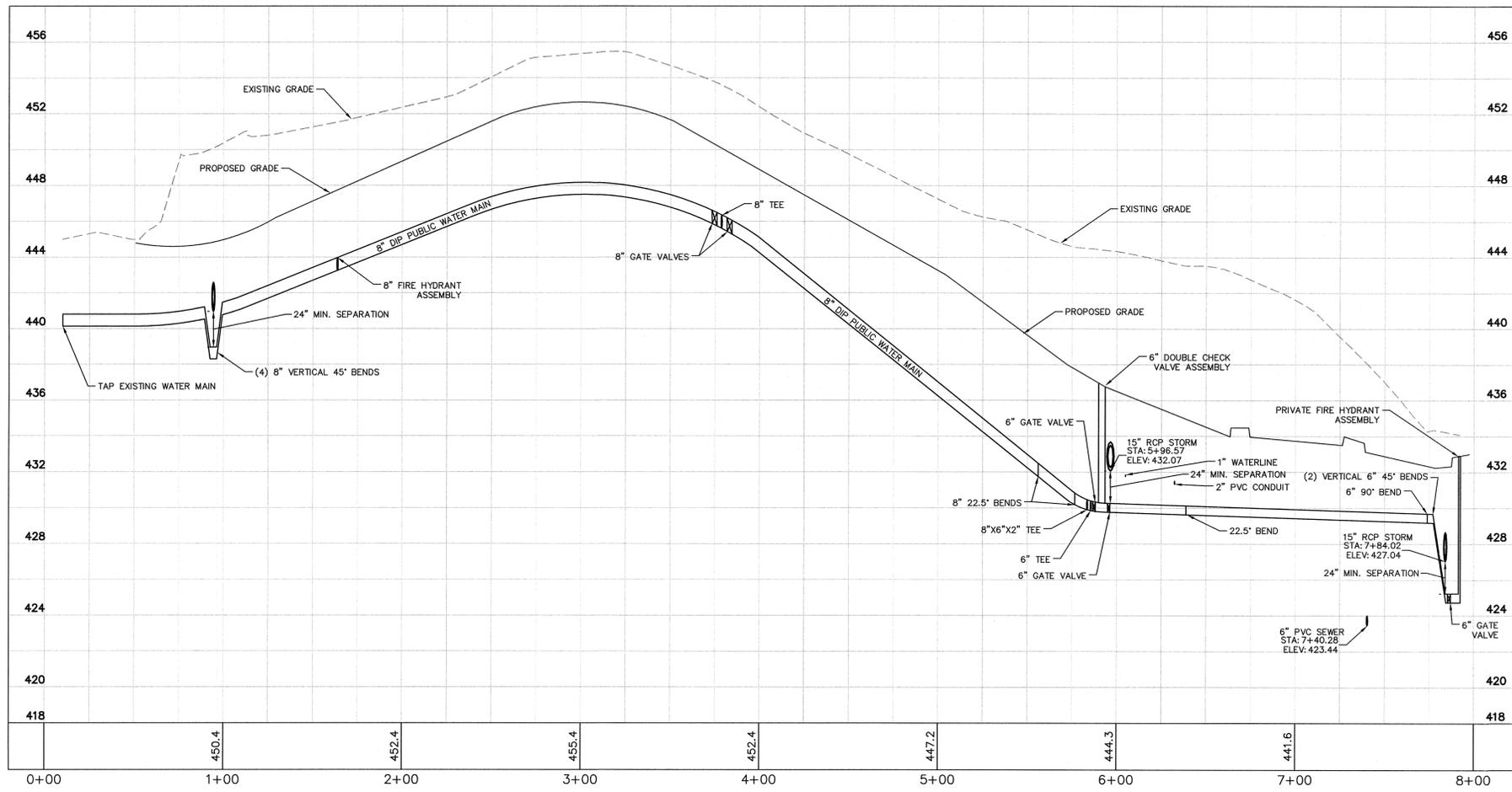


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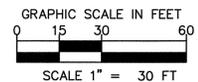
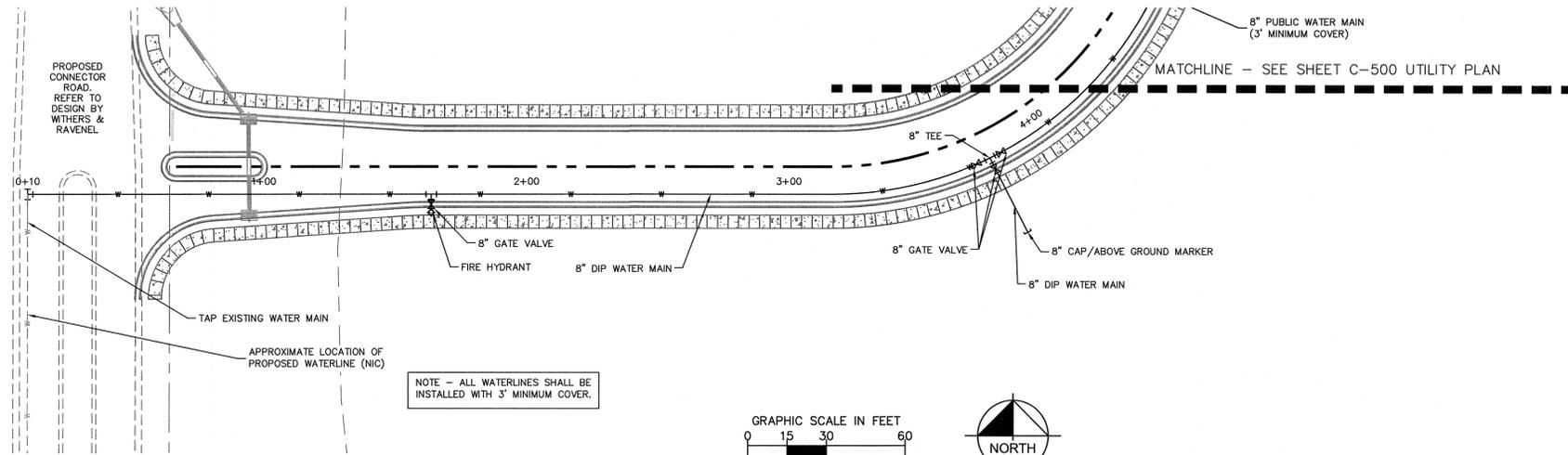
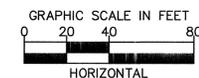
SHEET NAME:  
**UTILITY PLAN**

PHASE:  
**CONSTRUCTION DOCUMENTS**

#	REVISION	DATE
1	LEED	02-12-2015
2	EROSION CONTROL	03-26-2015
3	TOWN OF PITTSBORO	04-17-2015
4	TOWN OF PITTSBORO	05-18-2015
5	TOWN OF PITTSBORO	05-28-2015



WATER LINE PROFILE - 1



TOWN OF PITTSBORO UTILITY NOTIFICATION NOTE:

1. THE OWNER/CONTRACTOR SHALL NOTIFY THE TOWN OF PITTSBORO AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. ONCE WORK HAS BEGUN, AT LEAST 48 HOURS NOTICE SHALL BE GIVEN PRIOR TO ANY SORT OF DISRUPTION TO THE TOWN'S SERVICES SUCH AS TAPPING WATER MAINS, OPERATING VALVES, CLOSING STREETS, PLUGGING SEWERS, ETC.
2. NOTIFICATION MUST BE PROVIDED BY DIRECT COMMUNICATION. VOICE MAIL OR EMAIL WILL NOT BE CONSIDERED PROPER NOTIFICATION UNLESS ADEQUATELY RESPONDED TO BY A TOWN OF PITTSBORO REPRESENTATIVE.
3. THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL CUSTOMERS AFFECTED BY SERVICES INTERRUPTIONS. THE TOWN OF PITTSBORO WILL NOT APPROVE SERVICE INTERRUPTIONS UNTIL PROOF THAT PROPER CUSTOMER NOTIFICATION HAS BEEN PROVIDED.
4. EXISTING VALVES SHALL BE OPERATED ONLY WITH A REPRESENTATIVE OF THE TOWN OF PITTSBORO PRESENT.

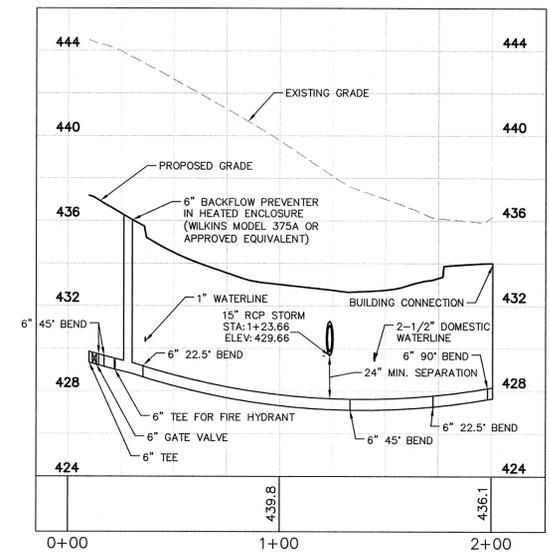
NOTE - WATER METER SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE A NEPTUNE RADIO-READ METER CONFORMING TO AWWA C702 WITH RADIO READ OUTPUT THAT IS CONSISTENT WITH THE TOWN OF PITTSBORO STANDARDS AT THE TIME OF INSTALLATION.

NOTE - VAULT SHALL BE A PRE-CAST CONCRETE ADEQUATELY SIZED FOR THE METER AND ALL APPURTENANCES WITH 12" CLEARANCE BETWEEN WALLS AND ALL PARTS.

- LEGEND:
- ☒ PROPOSED BACKFLOW PREVENTER
  - ☐ PROPOSED METER
  - CD SANITARY SEWER CLEANOUT
  - E — PROPOSED ELECTRIC LINE
  - G — PROPOSED GAS LINE
  - SS — PROPOSED SANITARY SEWER LINE
  - T — PROPOSED TELEPHONE/CABLE LINE
  - W — PROPOSED WATER LINE
  - W — EXISTING WATER LINE
  - SS — EXISTING SANITARY SEWER LINE
  - FO — EXISTING FIBER OPTIC
  - E — EXISTING ELECTRIC

TOWN OF PITTSBORO STANDARD UTILITY NOTES:

1. OWNER / CONTRACTOR SHALL NOTIFY TOWN OF PITTSBORO AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. ONCE WORK HAS BEGUN, AT LEAST 48 HOURS NOTICE SHALL BE GIVEN PRIOR TO ANY SORT OF DISRUPTION TO THE TOWN'S SERVICES SUCH AS TAPPING WATER MAIN, OPERATING VALVES, CLOSING STREETS, PLUGGING SEWER, ETC.
2. UTILITY SEPARATION REQUIREMENTS:
  - A) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
  - B) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
  - C) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
  - D) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN AND RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSING. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE.
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE TOWN OF PITTSBORO PUBLIC UTILITIES DEPARTMENT.
4. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 48 HOUR ADVANCE NOTICE TO THE TOWN OF PITTSBORO PUBLIC UTILITIES DEPARTMENT.
5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS.
6. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0" ABOVE THE NEXT UPSTREAM MANHOLE.
7. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE, AND/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND, &/OR FLOODPLAIN IMPACTS (RESPECTIVELY).



WATER LINE PROFILE - 2

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF PITTSBORO AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

SURVEY NOTE:  
ALL EXISTING SITE AND TOPOGRAPHIC INFORMATION SHOWN WITHIN LIMITS OF TOPOGRAPHIC SURVEY BASED ON AN ALTA/ACSM LAND TITLE SURVEY DATED AUGUST 13, 2014, PROVIDED BY WITHERS & RAVENEL, 115 MACKENAN DR, CARY NC 27511, PHONE 919-469-3340

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Chatham Park  
**Hospice and Palliative  
Inpatient Care Facility**  
Pittsboro, NC



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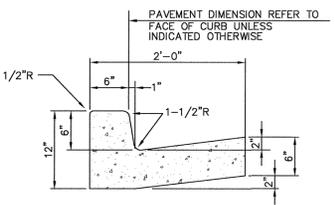
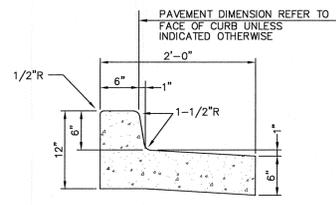
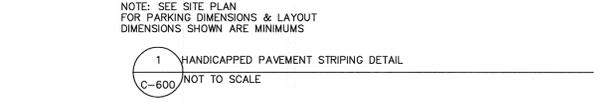
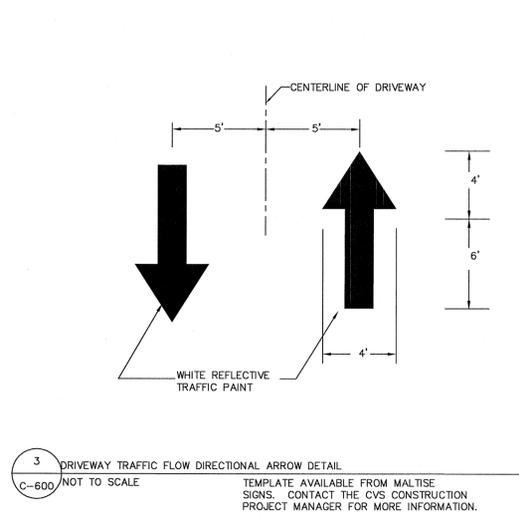
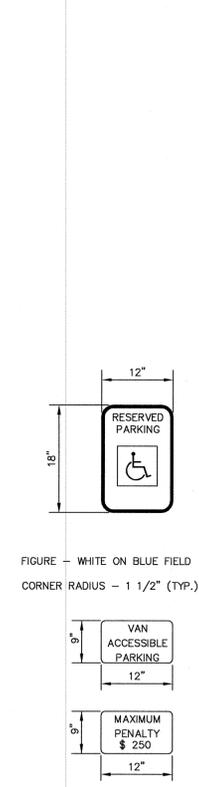
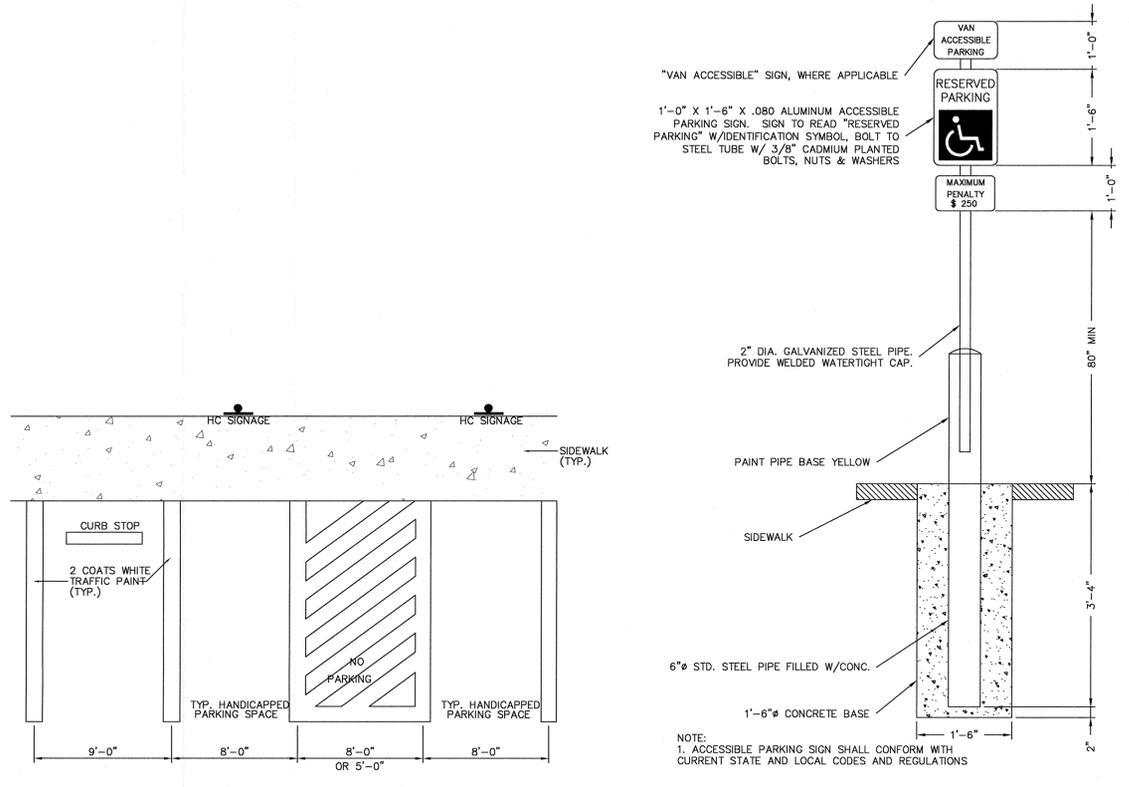
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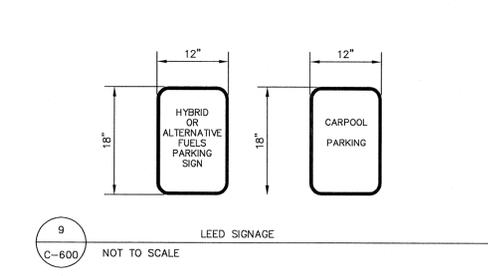
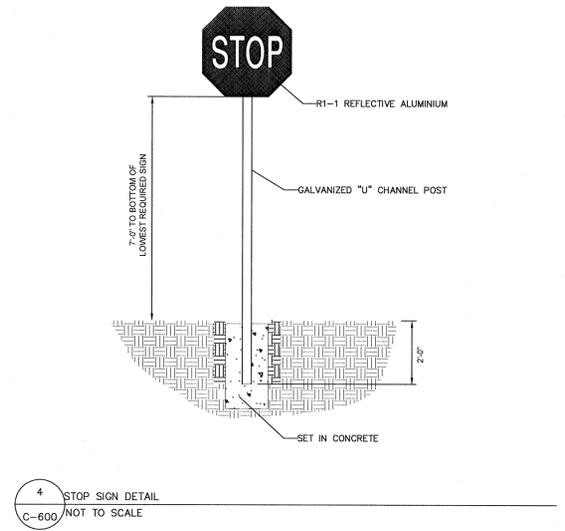
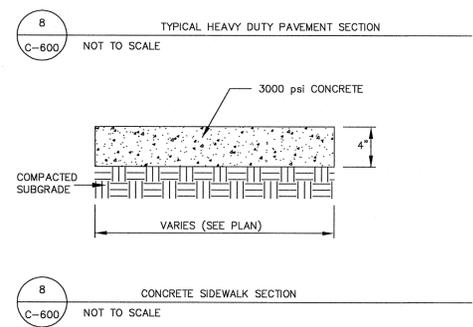
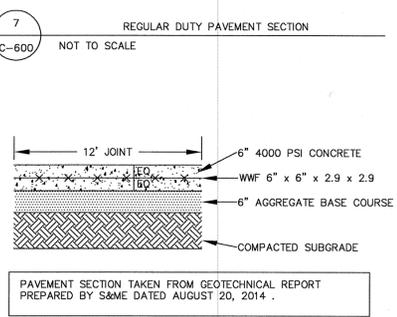
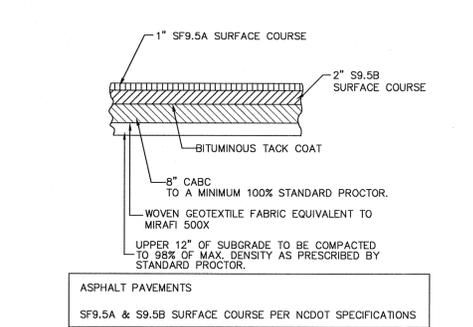
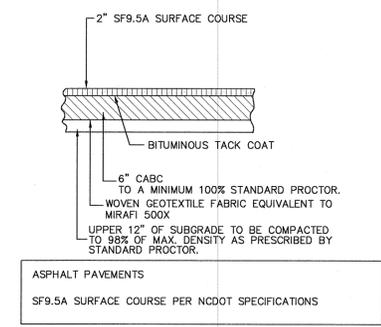
ISSUE DATE: 10-31-2014  
PROJECT #: 13037  
DRAWN BY: BTO/KCG  
SHEET NUMBER  
**C-501**



CONCRETE FOR CURBING SHALL HAVE A CONSTRUCTION STAKING FOR CURBING AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT THE EDGE OF MINIMUM COMPRESSIVE STRENGTH OF INSTALLATION SHALL BE REFERENCED PARALLEL WITH PAVING OF BASE COURSE. (OUT OR FILL) TO THE FACE OF CURB.

CONTRACTION JOINTS AT 10'-0" O.C. TOOLED 1/4" (±1/16"-0) WIDE, 1" OR MAX. D/4 DEEP WHICHEVER IS GREATER. EXPANSION JOINTS AT 40' MAX. AND ALL P.C.'S, UNLESS APPROVED OR INDICATED OTHERWISE ON PLAN VIEW JOINT PATTERN.

5 TYPICAL CURB AND GUTTER 24"  
 C-600 NOT TO SCALE



Chatham Park  
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 Pittsboro, NC



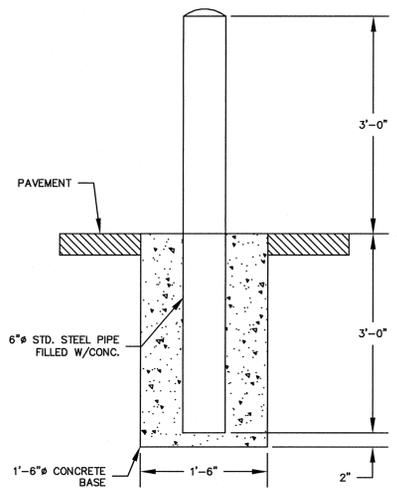
**Kimley-Horn**  
 333 FAYETTEVILLE STREET, SUITE 600, HALDIGH, NC 27601  
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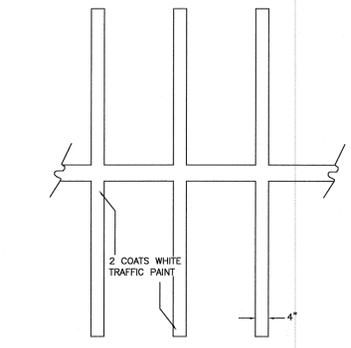
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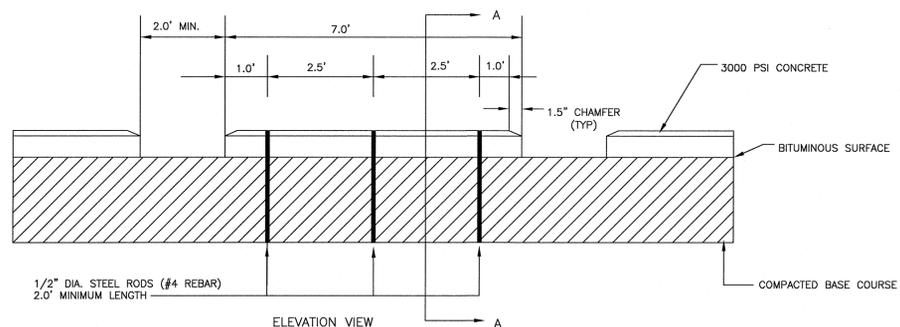
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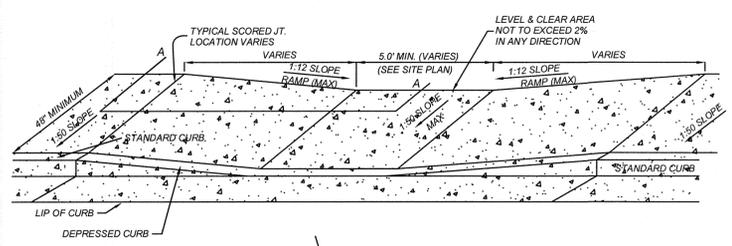
10 DECORATIVE BOLLARD  
C-601 NOT TO SCALE



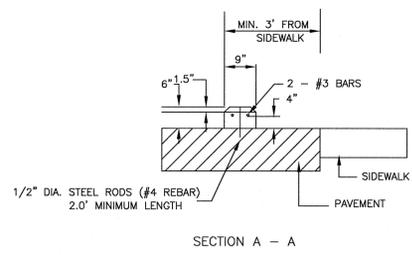
NOTE: SEE SITE PLAN FOR PARKING DIMENSIONS & LAYOUT  
12 PAVEMENT STRIPING DETAIL  
C-601 NOT TO SCALE



13 WHEEL STOP DETAIL  
C-601 NOT TO SCALE

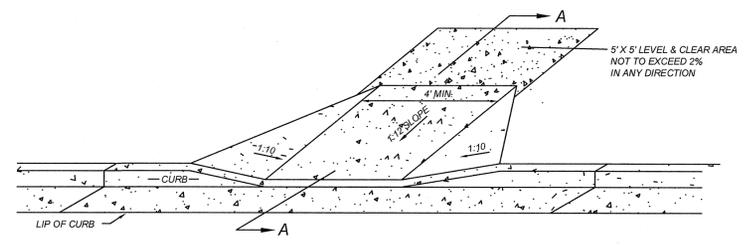


FLUSH HANDICAP WALK DETAIL  
SECTION A-A

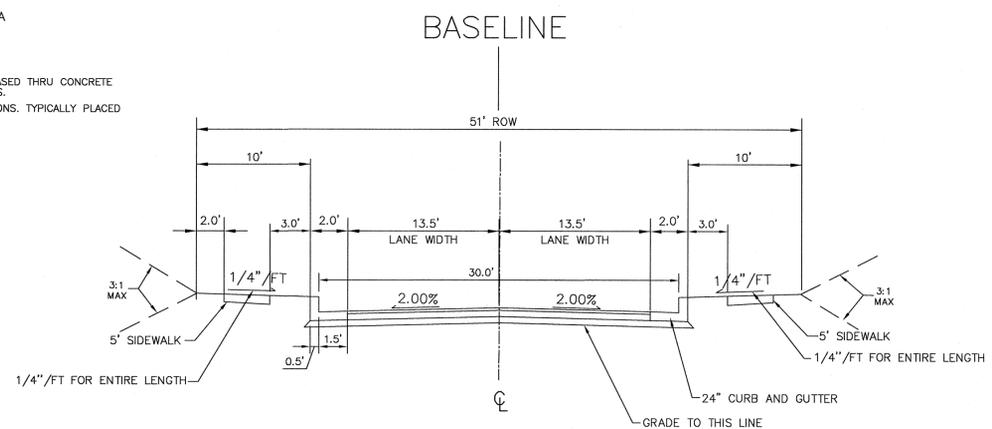


NOTE:  
1. ANCHOR RODS TO BE SLEEVED OR GREASED THRU CONCRETE CURBS TO PERMIT RELOCATION OF CURBS.  
2. SEE SITE PLAN FOR CURB STOP LOCATIONS. TYPICALLY PLACED 2.5' OFF OF BACK OF CURB

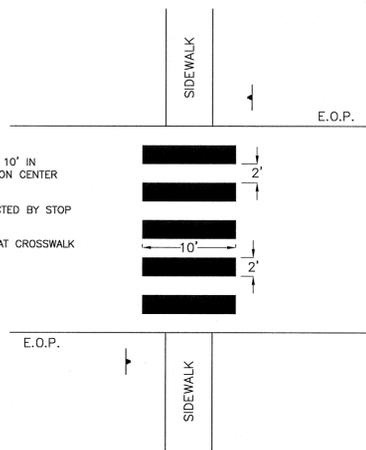
14 HIGH VISIBILITY CROSSWALK  
C-601 NOT TO SCALE



16 STANDARD HANDICAP RAMP  
C-601 NOT TO SCALE

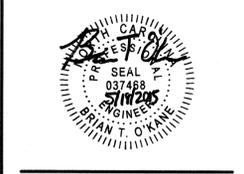


HOSPICE ACCESS DR.  
NOT TO SCALE



NOTES:  
1. CROSSWALK MARKINGS ARE 10' IN LENGTH, 2" WIDE AND 4" ON CENTER (WHITE THERMOPLASTIC).  
2. CROSSWALK IS NOT PROTECTED BY STOP CONTROL.  
3. W11-2 & W16-7P SIGNS AT CROSSWALK ON EACH APPROACH (2X2).

Chatham Park  
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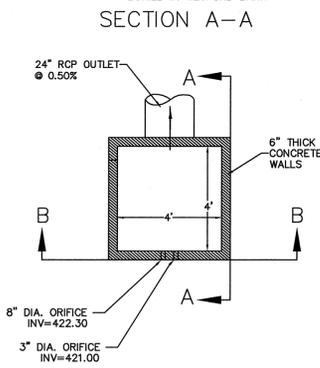
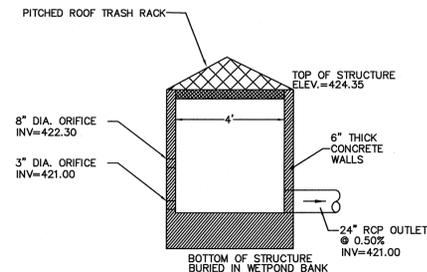
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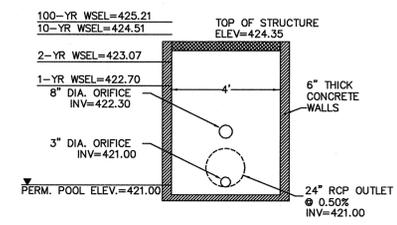
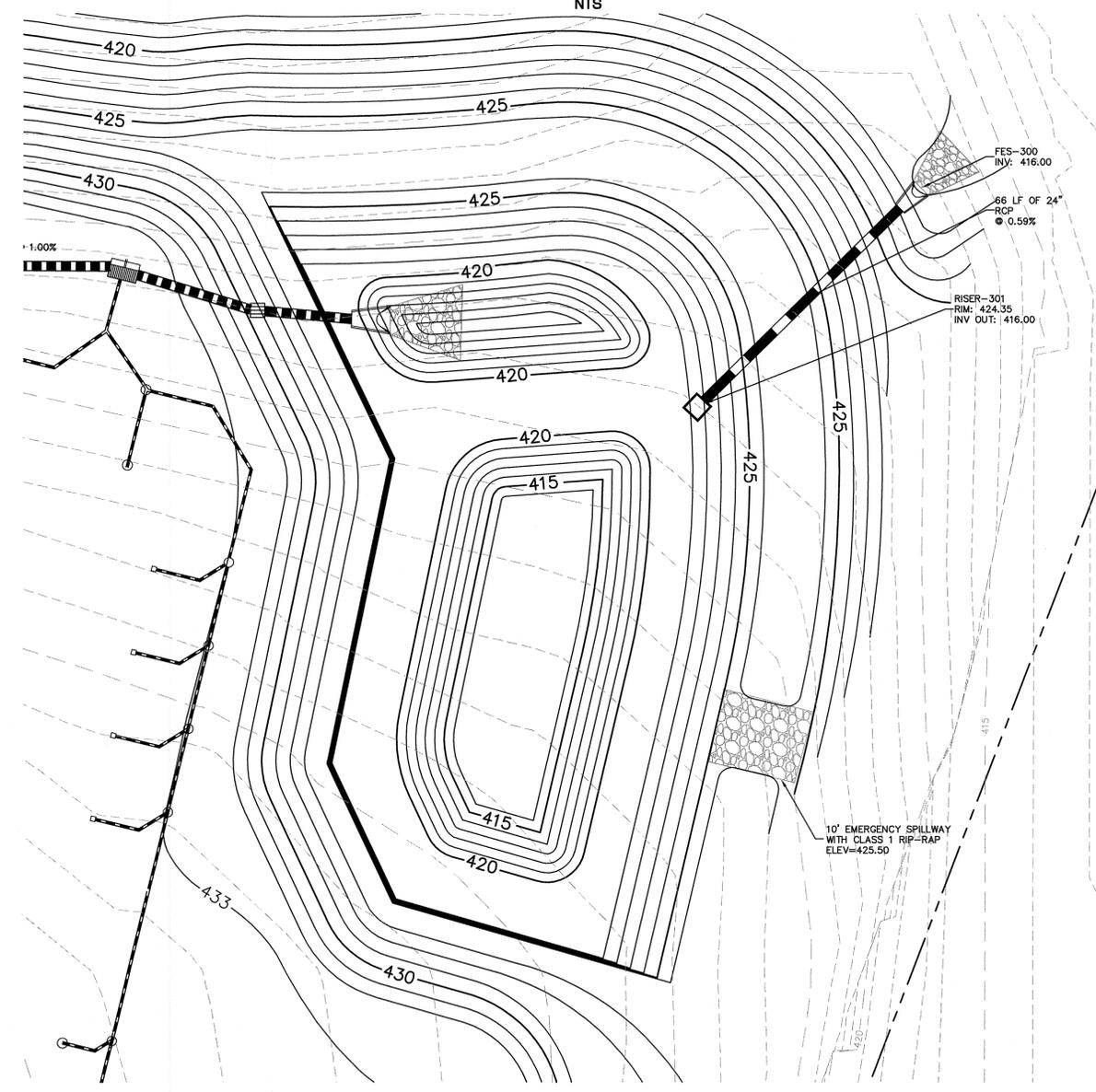
ISSUE DATE: 10-31-2014  
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SHEET NUMBER  
C-601



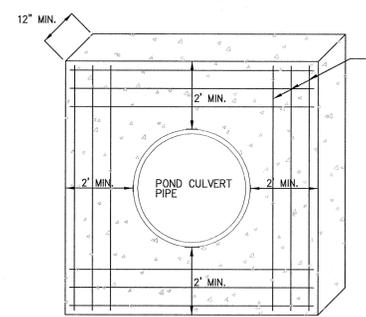


WET DETENTION POND PLAN VIEW  
NTS



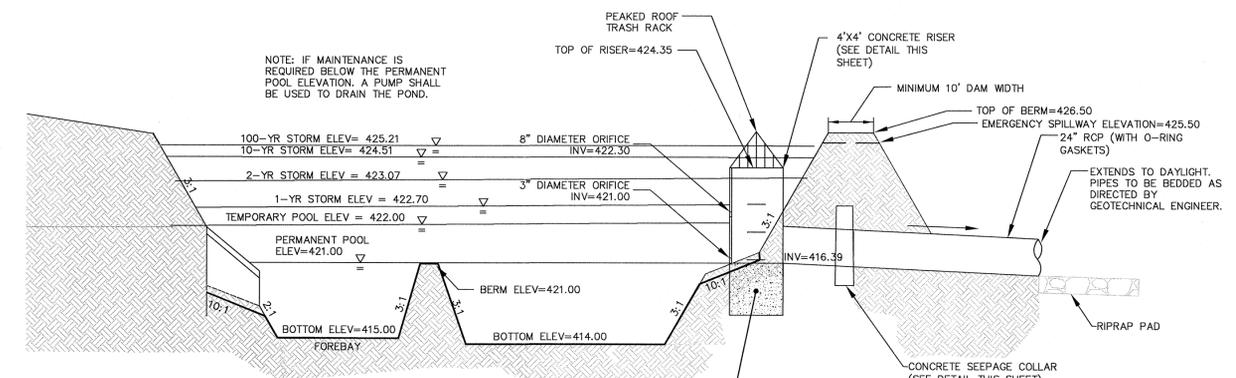
SECTION B-B  
STORMWATER WET DETENTION BASIN CONTROL STRUCTURE  
NOT TO SCALE

CONTROL STRUCTURE NOTE:  
ALL ORIFICES TO HAVE SCREEN INSTALLED OVER OPENINGS TO PREVENT BLOCKAGE.



CONCRETE SEEPAGE COLLAR  
NOT TO SCALE

- NOTES:
1. ALL CONCRETE TO BE 3000 PSI NON-FLY ASH.
  2. APPLY 1/2" THICK WRAP OF ASPHALTIC CEMENT AROUND DISCHARGE PIPE 6" BEYOND PLANNED SEEPAGE COLLAR ON BOTH SIDES.
  3. APPLY ADDITIONAL ASPHALTIC CEMENT AT PIPE/SEEPAGE COLLAR INTERFACE ON UPSTREAM FACES.
  4. TO BE FIELD INSPECTED BY GEOTECHNICAL ENGINEER. ASPHALTIC CEMENT TO MEET OR EXCEED FEDERAL SPECIFICATION SS-153 TYPE 1; ASTM-D-2822-75 TYPE 1.

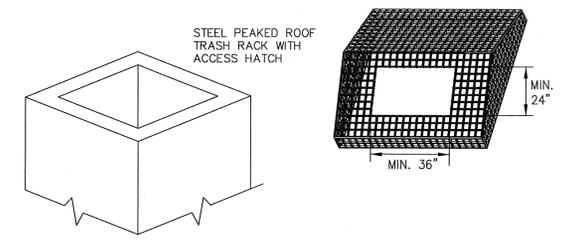


NOTE: IF MAINTENANCE IS REQUIRED BELOW THE PERMANENT POOL ELEVATION, A PUMP SHALL BE USED TO DRAIN THE POND.

NOTE: UPON CONVERSION OF THE SEDIMENT BASIN TO WET DETENTION POND, THE DEVICE MUST BE CLEANED OUT AND RETURNED TO THE DESIGN STATE.

NOTE: INSURE THAT CONCRETE BOTTOM DOES NOT EXTEND OVER INVERT OF OUTLET BARREL.

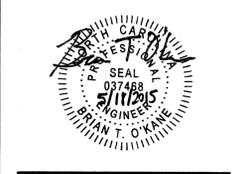
WET DETENTION POND  
NOT TO SCALE



NOTES:  
MUST HAVE A MINIMUM ROOF SLOPE OF 2:1.  
SHALL INCLUDE A ACCESS HATCH WITH A MINIMUM CLEAR SPACE OPENING OF 2'x3'.  
THE ACCESS HATCH SHALL ALIGN WITH THE ACCESS STEPS INSIDE THE STRUCTURE.  
HATCH MAY BE SECURED BY LOCK AND CHAIN.  
SHALL BE BOLTED TO THE TOP OF THE STRUCTURE (BOLTS IN SHEAR SHALL BE PROHIBITED).  
SHALL BE GALVANIZED PRIMED OR PAINTED.  
BOLTS SHALL BE STAINLESS STEEL.

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SURVEY NOTE:  
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SHEET NAME:  
**STORMWATER  
DETAILS**

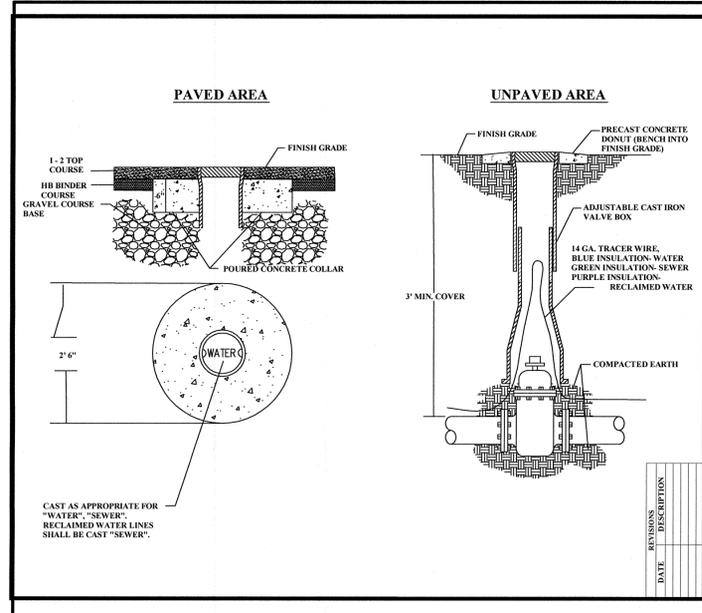
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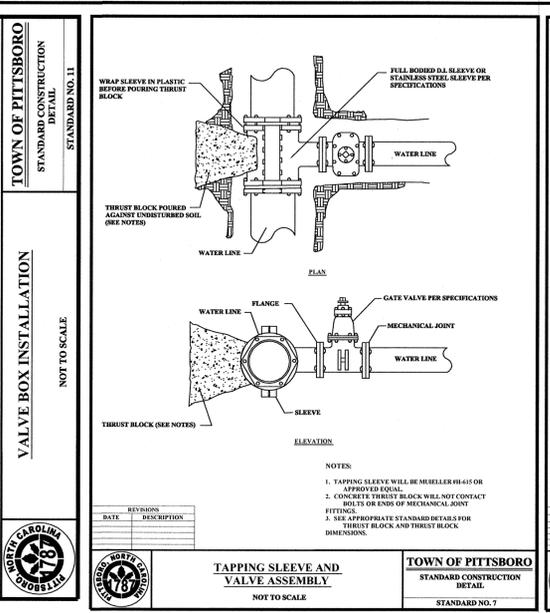
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PROJECT #: **13037**  
DRAWN BY: **BTO/KCG**

SHEET NUMBER  
**C-701**

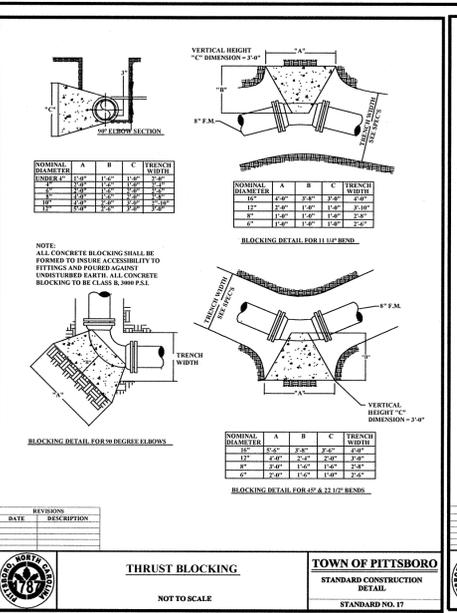
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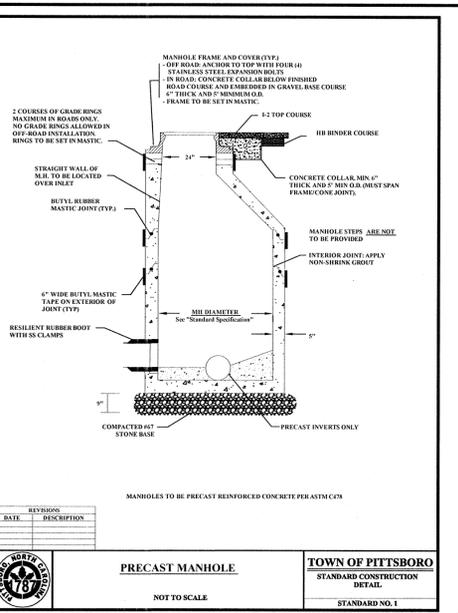
**VALVE BOX INSTALLATION**



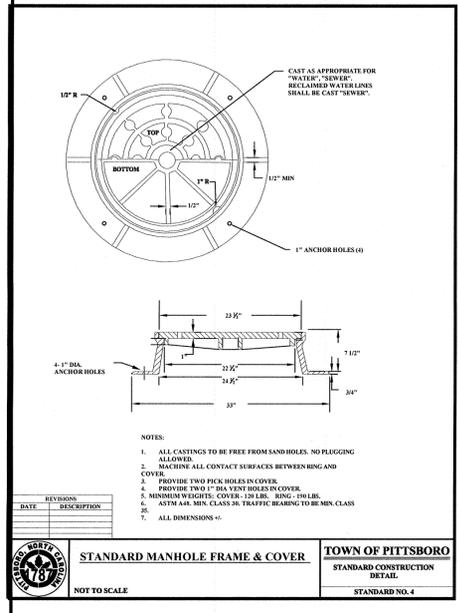
**TAPPING SLEEVE AND VALVE ASSEMBLY**



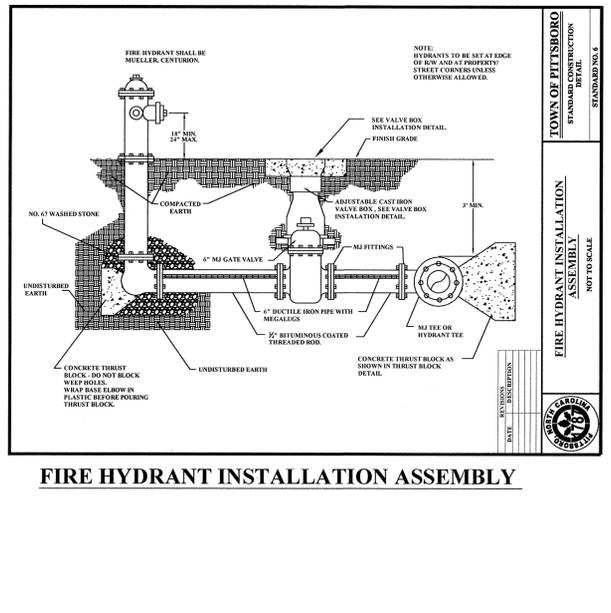
**THRUST BLOCK**



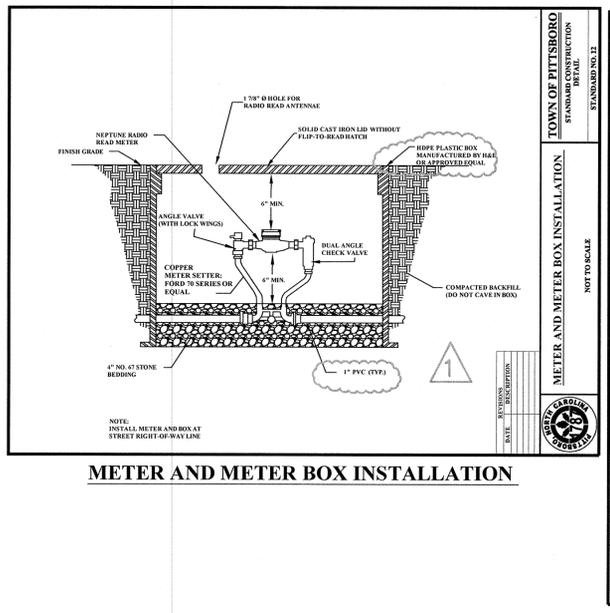
**PRECAST MANHOLE**



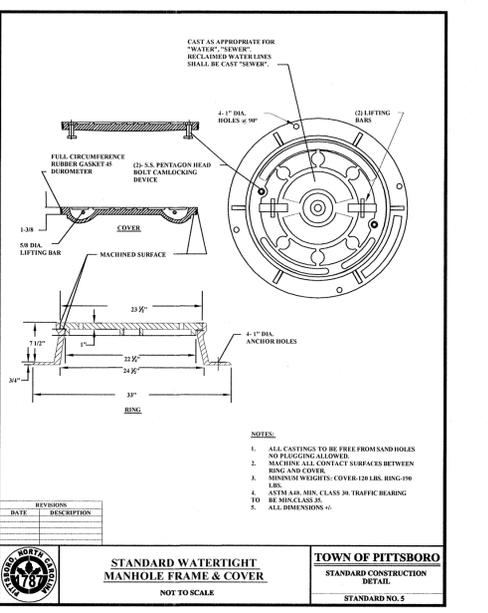
**STANDARD MANHOLE FRAME & COVER**



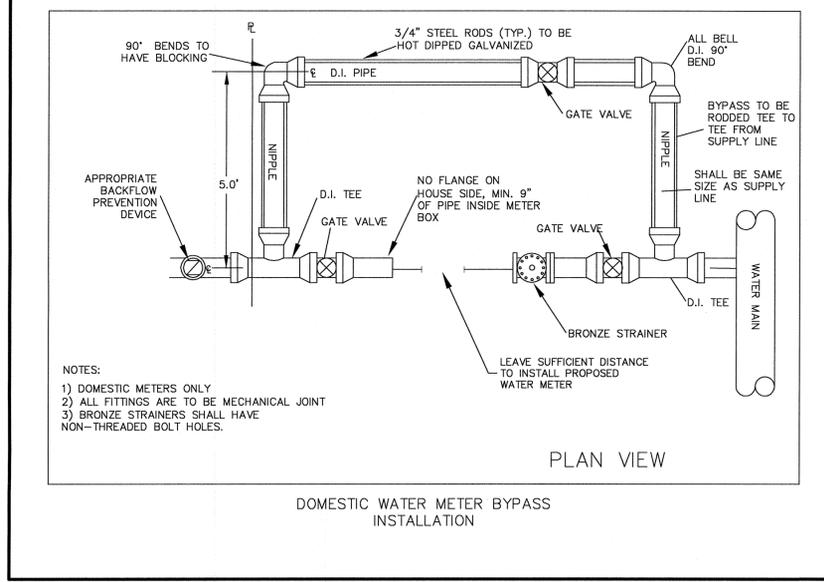
**FIRE HYDRANT INSTALLATION ASSEMBLY**



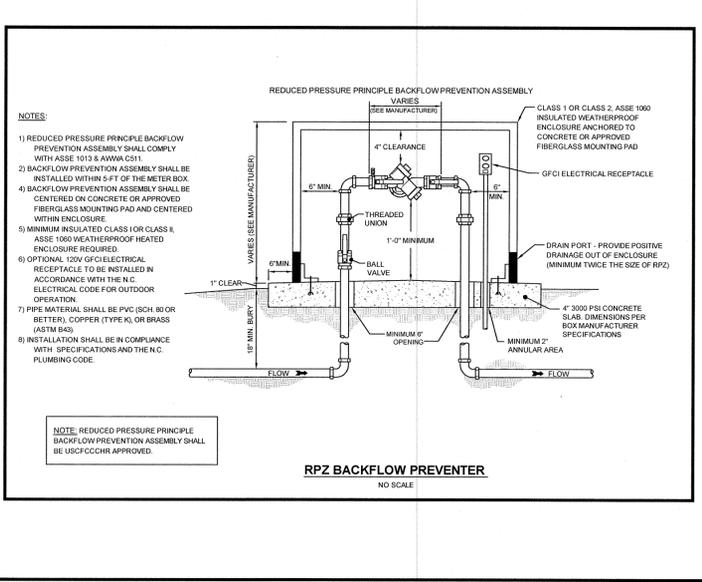
**METER AND METER BOX INSTALLATION**



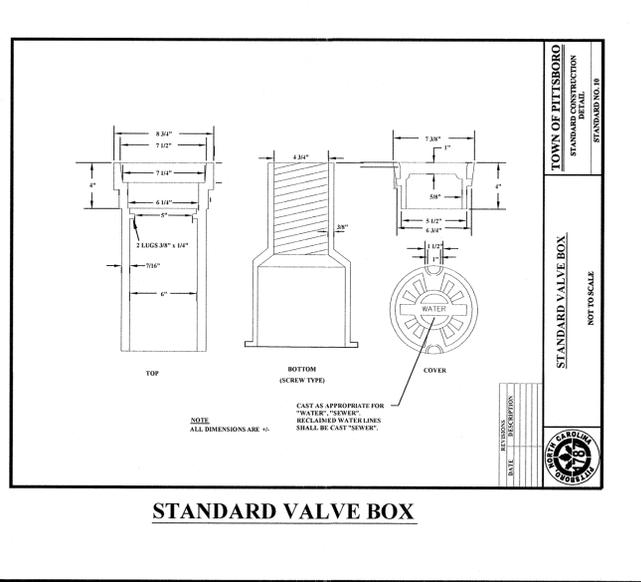
**STANDARD WATERTIGHT MANHOLE FRAME & COVER**



**DOMESTIC WATER METER BYPASS INSTALLATION**



**RPZ BACKFLOW PREVENTER**



**STANDARD VALVE BOX**

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SHEET NAME: **UTILITY DETAILS**

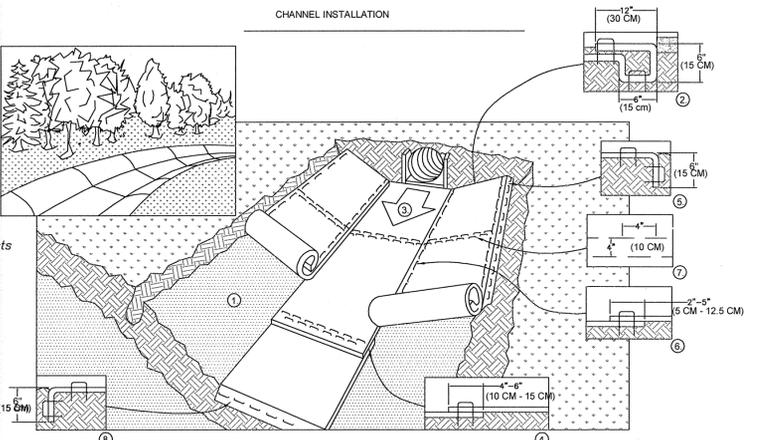
PHASE: **CONSTRUCTION DOCUMENTS**

#	REVISION	DATE
1	LEED	02-12-2015
2	EROSION CONTROL	03-26-2015
3	TOWN OF PITTSBORO	04-17-2015
4	TOWN OF PITTSBORO	05-18-2015

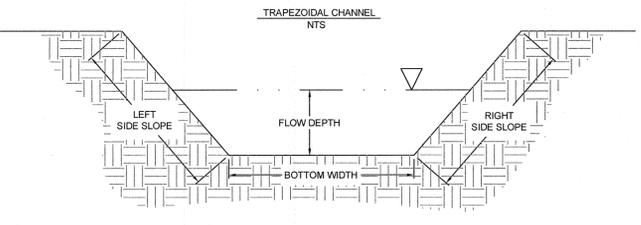
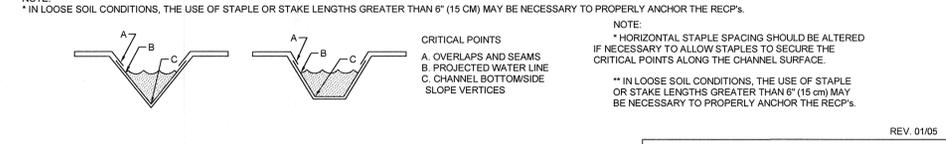
ISSUE DATE: **10-31-2014**  
 PROJECT #: **13037**  
 DRAWN BY: **BTO/KCG**  
 SHEET NUMBER  
**C-800**

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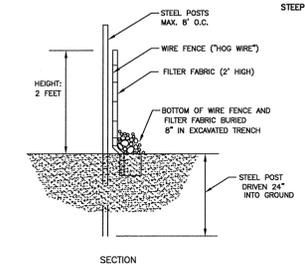
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE RECP'S.
- ROLL CENTER RECP'S IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- PLACE CONSECUTIVE RECP'S END OVER END (SHINGLE STYLE) WITH A 4" - 6" (10 CM - 15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP'S.
- FULL LENGTH EDGE OF RECP'S AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ADJACENT RECP'S MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) (DEPENDING ON RECP'S TYPE) AND STAPLED.
- IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
- THE TERMINAL END OF THE RECP'S MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



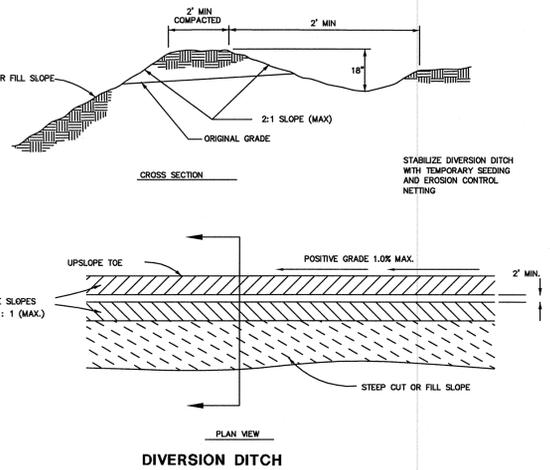
- MAINTENANCE REQUIREMENTS**
- MOWING WILL BE ACCOMPLISHED AS NEEDED ACCORDING TO THE SEASON. GRASS HEIGHT WILL NOT EXCEED SIX INCHES AT ANY TIME; AND GRASS WILL NOT BE MOWED TOO CLOSE TO THE GROUND OR "SCALPED".
  - SWALES WILL BE INSPECTED MONTHLY OR AFTER EVERY RUNOFF PRODUCING RAINFALL EVENT FOR SEDIMENT BUILD-UP, EROSION, AND TRASH ACCUMULATION.
  - ACCUMULATED SEDIMENT AND TRASH WILL BE REMOVED AS NECESSARY. SWALES WILL BE RESEDED OR SODDED FOLLOWING SEDIMENT REMOVAL.
  - ERODED AREAS OF THE SWALES WILL BE REPAIRED AND RESEDED. SWALES WILL BE REVEGETATED AS NEEDED AND IN A TIMELY MANNER BASED ON THE MONTHLY INSPECTIONS. SIDE SLOPES MUST BE MAINTAINED AT THE PERMITTED SLOPE.
  - CATCH BASINS, CURB CUTS, VELOCITY REDUCTION DEVICES, AND PIPING WILL BE INSPECTED MONTHLY OR AFTER EVERY SIGNIFICANT RUNOFF PRODUCING RAINFALL EVENT. TRASH AND DEBRIS WILL BE CLEARED FROM GRATES, CURB CUTS, VELOCITY REDUCTION DEVICES, AND PIPING.

**SEEDING SCHEDULE**  
(REVISED: 1-1-86)

DATE	Shoulders, Side Ditches, Slopes (Max 3:1)	PLANTING RATE
Aug 15 - Nov 1	Tall Fescue	300 lbs/acre
Nov 1 - Mar 1	Tall Fescue & Abruzzi Rye	300 lbs/acre
Mar 1 - Apr 15	Tall Fescue	25 lbs/acre
Apr 15 - Jun 30	Hulled Common Bermudagrass	300 lbs/acre
Jul 1 - Aug 15	Tall Fescue and ***Browntop Millet	25 lbs/acre
	***or Sorghum-Sudan Hybrids	120 lbs/acre
		35 lbs/acre
		30 lbs/acre
<b>Slopes (3:1 to 2:1)</b>		
Mar 1 - Jun 1	Setaria Lespedeza (scarified) &	50 lbs/acre
(Mar 1 - Apr 15)	Add Tall Fescue	120 lbs/acre
(Mar 1 - Jun 30)	Or Add Weeping Lovegrass	10 lbs/acre
(Mar 1 - Jun 30)	Or Add Hulled Common Bermudagrass	25 lbs/acre
Jun 1 - Sep 1	***Tall Fescue and ***Browntop Millet	120 lbs/acre
	***or Sorghum-Sudan Hybrids	35 lbs/acre
		30 lbs/acre
Sep 1 - Mar 1	Setaria Lespedeza (unhulled-unscarified) and Tall Fescue	70 lbs/acre
(Nov 1 - Mar 1)	Add Abruzzi Rye	120 lbs/acre
		25 lbs/acre

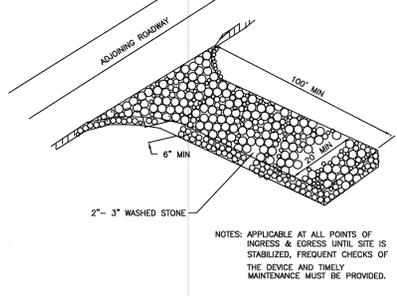


- SEDIMENT FENCE (SILT FENCE)**  
NOT TO SCALE
- NOTES:  
 FABRIC SHALL EXTEND INTO TRENCH 8-INCHES DOWN AND 4-INCHES FORWARD ALONG TRENCH.  
 INSPECT SILT FENCE AT LEAST ONCE A WEEK AND AFTER EVERY RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD FABRIC OF SILT FENCE COLLAPSE, TEAR, DISINTEGRATE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.  
 IF THE TOP OF SEDIMENT ELEVATION REACHES ONE-THIRD (1/3) OF THE HEIGHT OF THE FENCE, SEDIMENT MUST BE REMOVED.  
 REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

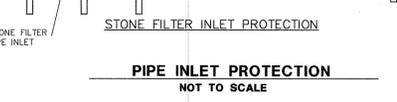
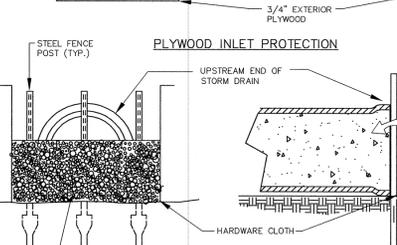
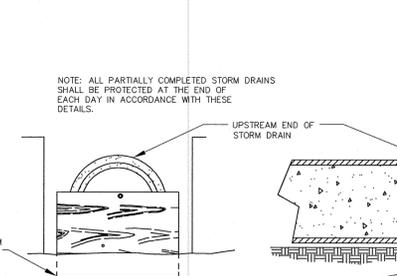


- SEEDBED PREPARATION**
- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
  - RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
  - REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
  - APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
  - CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
  - SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
  - MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
  - INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DENSE, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
  - CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
- \* APPLY: AGRICULTURAL LIMESTONE - 2 TONS / ACRES (3 TONS / ACRE IN CLAY SOILS OR PER SOILS TEST)  
 FERTILIZER - 1,000 lbs. / ACRE - 10-10-10  
 SUPERPHOSPHATE - 500 lbs / ACRE - 20% ANALYSIS  
 MULCH - 2 TONS / ACRE - SMALL GRAIN STRAW  
 ANCHOR - ASPHALT EMULSION @ 400 GALS./ ACRE

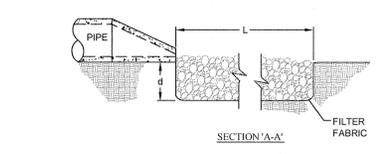
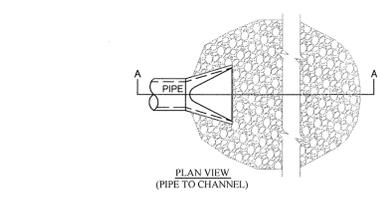
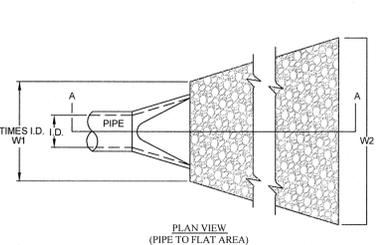
- NOTES:**
- 2" - 3" WASHED STONE SHALL BE USED. PAD TO BE 100' L X 20' W X 6" D AT A MINIMUM.
  - TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.
  - ENTRANCES SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
  - MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE SHALL BE NECESSARY. KEEP SOME HANDY.
  - ANY MATERIAL WHICH STILL LIES ON THE ROAD MUST BE CLEANED UP IMMEDIATELY.
  - PLACE FRESH STONE ON CONSTRUCTION ENTRANCE WHEN SEDIMENTS AND MUD ACCUMULATE.



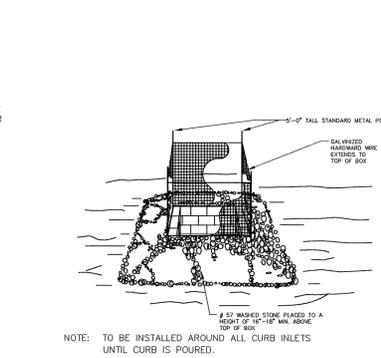
**TEMPORARY CONSTRUCTION ENTRANCE/EXIT**  
NOT TO SCALE



**PIPE INLET PROTECTION**  
NOT TO SCALE



**RIP RAP PAD PIPE OUTLET**  
NOT TO SCALE



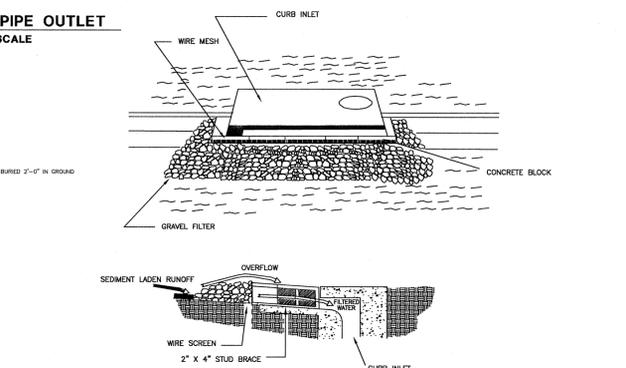
- INSTALLATION OF FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION.**  
NOT TO SCALE
- NOTES:  
 TO BE INSTALLED AROUND ALL CURB INLETS UNTIL CURB IS POURED.
- MAINTENANCE NOTE:**  
 INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (3" OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ACCURATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

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

STRUCTURE	Q Full (cfs)	E (ft)	L (ft)	P (ft)	D (ft)	STONE THICKNESS (in.)	STONE DIA. (in.)	STONE CLASS	VEL. (fps)
OP-1	16.04	6.00	8.0	10.00	2.00	12	3	A	5.11
OP-2	35.34	4.50	12.0	13.50	1.50	24	13	1	20.00
OP-3	15.98	3.00	8.0	9.00	1.00	24	13	1	20.34
OP-4	17.74	3.75	7.5	8.75	1.25	22	6	B	14.45

Method as outlined in Section 8.08 of the NC DENR Erosion Control Manual  
 NOTE: Rip-rap aprons designed for full flow pipe capacity.  
 \* Cross Sectional Area of Flow at Outlet (square feet)

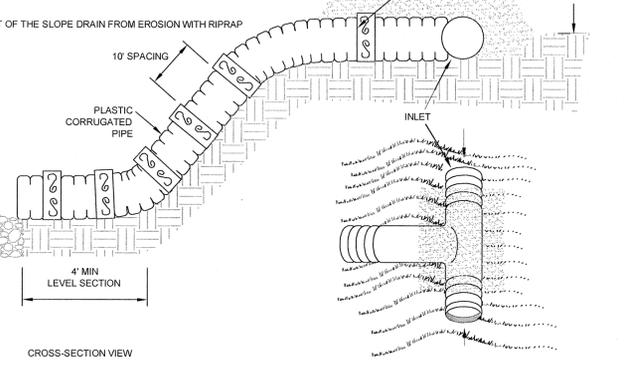
- MAINTENANCE:**  
 RIP RAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME LOCATIONS.



- BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER**  
NOT TO SCALE
- NOTES:**
- TWO CONCRETE BLOCKS SHALL BE PLACED ON THEIR SIDES ABOUTING THE CURB AT THEIR SIDE OF THE INLET OPENING. A 2"x4" STUD SHALL BE CUT AND PLACED THROUGH THE OUTER HOLES OF THE SPACER BLOCKS TO BRACE THE FRONT BLOCKS. FRONT BLOCKS ARE PLACED ON THEIR SIDES ACROSS THE INLET AND ABOUTING THE SPACER BLOCKS.
  - HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENINGS SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEEDING) OF THE BLOCKS TO PREVENT FILTER STONE FROM BEING WASHED THROUGH HOLES IN THE BLOCK.
  - WASHED STONE PER STATE AND LOCAL SPECIFICATIONS SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK.
  - CHECK DEVICE AFTER EACH RAIN. REPLACE WASHED STONE IF IT CLOGS WITH SEDIMENT.
  - APPLICABLE AT CURB INLETS WHERE AN OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING IN FRONT OF THE INLET.
- MAINTENANCE NOTES:**
- INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (3" OR GREATER) RAINFALL AND MAKE REPAIRS AS NEEDED.
  - REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
  - WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

**BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER**  
NOT TO SCALE

- NOTES:**
- CONSTRUCT THE ENTRANCE TO THE SLOPE DRAIN OF A STANDARD FLARED-END SECTION OF PIPE WITH A MINIMUM 6-INCH METAL TOE PLATE (CROSS-SECTION VIEW). MAKE ALL FITTINGS WATERTIGHT. A STANDARD T-SECTION FITTING MAY ALSO BE USED AT THE INLET.
  - USE AN EARTHEN DIVERSION TO DIRECT SURFACE RUNOFF INTO THE TEMPORARY SLOPE DRAIN. MAKE THE HEIGHT OF THE BERM OVER THE DRAIN CONDUIT A MINIMUM OF 1.5 FT AND AT LEAST 6 INCHES HIGHER THAN THE ADJOINING BERM ON EITHER SIDE. THE LOWEST POINT OF THE DIVERSION BERM SHOULD BE A MINIMUM OF 1 FT ABOVE THE TOP OF THE DRAIN SO THAT DESIGN FLOW CAN FREELY ENTER THE PIPE.
  - PROTECT THE OUTLET OF THE SLOPE DRAIN FROM EROSION WITH RIPRAP DISSIPATER.



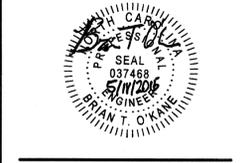
- TEMPORARY SLOPE DRAIN**  
NOT TO SCALE
- MAINTENANCE:**  
 INSPECT THE SLOPE DRAIN AND SUPPORTING DIVERSION AFTER EVERY RAINFALL AND PROMPTLY MAKE NECESSARY REPAIRS. WHEN THE PROTECTED AREA HAS BEEN PERMANENTLY STABILIZED, TEMPORARY MEASURES MAY BE REMOVED, MATERIALS DISPOSED OF PROPERLY, AND ALL DISTURBED AREAS STABILIZED APPROPRIATELY.

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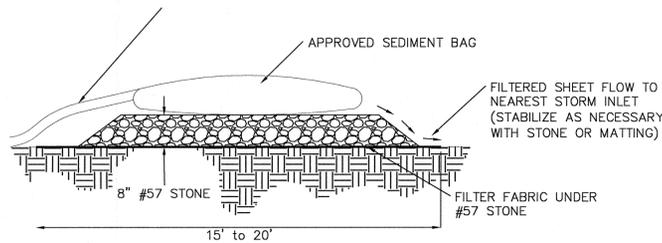
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**EROSION CONTROL DETAILS**

**PHASE:**  
**CONSTRUCTION DOCUMENTS**

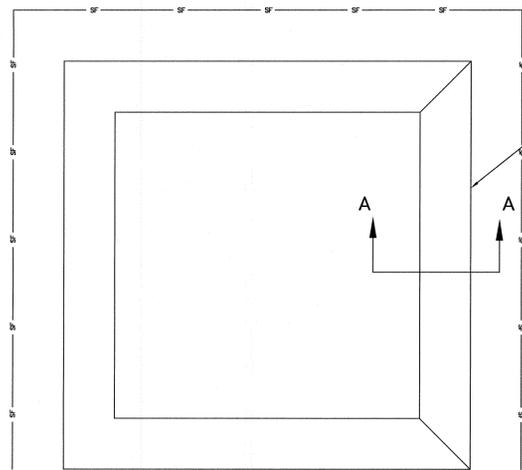
#	REVISION	DATE
1	LEAD	02-12-2015
2	EROSION CONTROL	03-26-2015
3	TOWN OF PITTSBORO	04-17-2015
4	TOWN OF PITTSBORO	05-18-2015

**ISSUE DATE: 10-31-2014**  
**PROJECT #: 13037**  
**DRAWN BY: BTO/KCG**

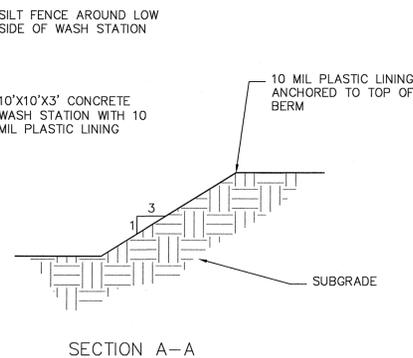
SHEET NUMBER  
**C-900**



**PUMPING SILT BAG DETAIL**  
NOT TO SCALE



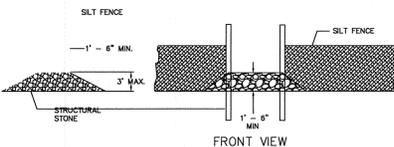
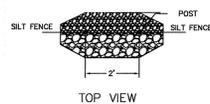
**CONCRETE WASH STATION**  
NOT TO SCALE



**NOTES:**

1. WASHOUT FACILITY SHOULD BE CLEANED ONCE 75% FULL.
2. REMOVE HARDENED CONCRETE AND DEBRIS AND RESTORE PLASTIC LINING AS NECESSARY.
3. MINIMUM OF 50' FROM ALL INLETS & SURFACE WATERS.

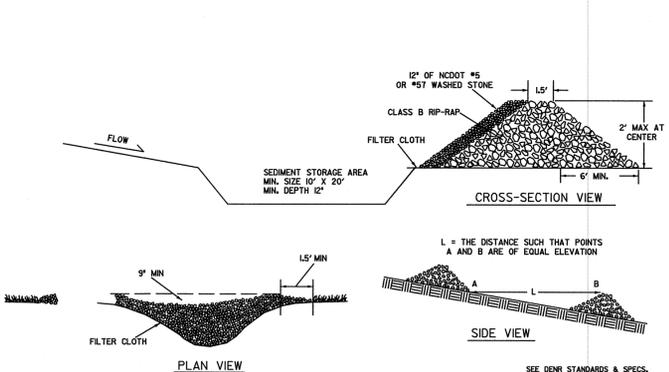
- NOTES:**
1. STRUCTURAL STONE SHALL BE (CLASS "B") STONE FOR EROSION CONTROL PURPOSES, SEDIMENT CONTROL STONE SHALL BE NO. 5 OR NO. 57 STONE.
  2. CONTRACTOR TO PLACE AS REQUIRED TO PREVENT SILT FENCE FAILURE. LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ADDITIONAL OUTLETS MAY BE REQUIRED AS GRADES CHANGE THROUGHOUT THE PROJECT CONSTRUCTION.



**MAINTENANCE**

1. INSPECT SILT FENCE OUTLET AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT 0.2" OR GREATER RAINFALL EVENT AND REPAIR IMMEDIATELY.
2. REMOVE SEDIMENT FROM THE SEDIMENT CONTROL STONE.

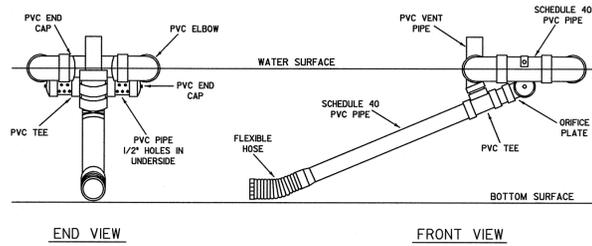
**STONE OUTLET DETAIL**



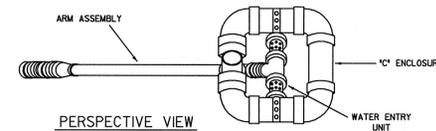
**CHECK DAM WITH WEIR (SEDIMENT STORAGE) DETAIL**  
NOT TO SCALE

local conditions; other seeding rate combinations are possible.

\*\*\*Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12" in height before mowing, otherwise fescue may be shaded out.

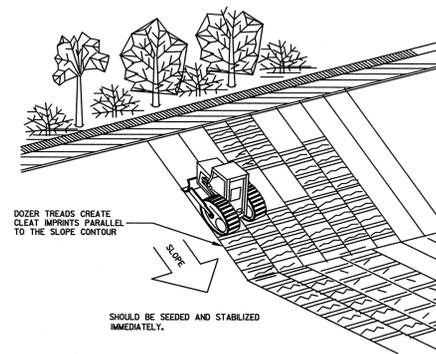


SKIMMER SEDIMENT BASINS ARE NEEDED WHERE DRAINAGE AREAS ARE TOO LARGE FOR TEMPORARY TRAPS. DO NOT LOCATE THE SKIMMER SEDIMENT BASIN IN INTERMITTENT OR PERENNIAL STREAMS.



**SKIMMER DETAIL**

NOT TO SCALE



**TRACKING SLOPE DETAIL**

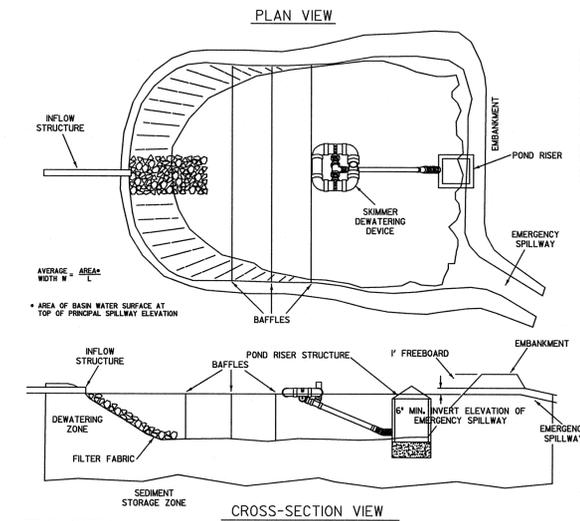
NOT TO SCALE

**DESIGN CRITERIA**

THE DRAINAGE AREA IS LIMITED TO ONE HALF ACRE. KEEP A MAXIMUM HEIGHT OF 2 FEET AT THE CENTER OF THE DAM. KEEP THE CENTER OF THE CHECK DAM AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES AT NATURAL GROUND ELEVATION. KEEP THE SIDE SLOPES OF THE DAM AT 2:1 OR FLATTER. ENSURE THAT THE MAXIMUM SPACING BETWEEN DAMS PLACES THE TOE OF THE UPSTREAM DAM AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM. STABILIZE OUTFLOW AREAS ALONG THE CHANNEL TO RESIST EROSION. USE NCDOT CLASS B STONE AND LINE THE UPSTREAM SIDE OF THE DAM WITH NCDOT #5 OR #57 STONE. KEY THE STONE INTO THE DITCH BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 1.5 FEET TO AVOID WASHOUT FROM OVERFLOW AROUND THE DAM.

**MAINTENANCE**

1. INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT 0.2" OR GREATER RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.
2. ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND EDGES OF DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIP RAP LINER IN THAT PORTION OF CHANNEL.
3. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.



**DESIGN CRITERIA**

**SUMMARY:**  
**PRIMARY SPILLWAY:** TRAPEZOIDAL SPILLWAY WITH IMPERMEABLE MEMBRAN  
**MAXIMUM DRAINAGE AREA:** 100 ACRES  
**MINIMUM VOLUME:** 1800 CUBIC FEET PER ACRE OF DISTURBED AREA  
**MINIMUM SURFACE AREA:** 439 SQUARE FEET PER CFS OF 25' PEAK FLOW  
**MINIMUM L/W RATIO:** 2:1  
**MAXIMUM L/W RATIO:** 6:1  
**MINIMUM DEPTH:** 2 FEET  
**DEWATERING MECHANISM:** SKIMMER  
**MINIMUM DEWATERING TIME:** 24 HOURS  
**BAFFLES REQUIRED:** 3 BAFFLES  
**DESIGN LIFE:** LESS THAN 3 YEARS

**MAINTENANCE**

1. INSPECT SKIMMER BASIN AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT OR GREATER RAINFALL EVENT. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.
2. REPAIR BAFFLES IF DAMAGED, RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.
3. INSPECT AND CLEAN SKIMMER IF CLOGGED.
4. INSPECT SPILLWAY, EMBANKMENT, OUTLET AND MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE POOL AREAS.

**Notification of Combined Self-Monitoring and Self-Inspection Form:**

The Sedimentation Pollution Control Act was amended in 2006 to require that persons responsible for land-disturbing activities inspect a project after each phase of the project to make sure that the approved erosion and sedimentation control plan is being followed. Rules detailing the documentation of these inspections took effect October 1, 2010.

To simplify documentation of Self-Inspection reports and NPDES Self-Monitoring Reports, DWQ and DEMLR developed a combined form. The self-inspection program is separate from the weekly self-monitoring program of the NPDES Stormwater Permit for Construction Activities. The focus of the self-inspection report is the installation and maintenance of erosion and sedimentation control measures according to the approved plan. The inspections should be conducted after each phase of the project, and continued until permanent ground cover is established. The form can be accessed at: <http://portal.ncdenr.org/web/1r/erosion>

If you have questions or cannot access the form, please contact the Raleigh Regional Office at (919) 791-4200.

**SEDIMENT FENCE (SILT FENCE)**

NOT TO SCALE

1. PLACE STONE TO THE LINE AND DIMENSION SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
2. KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS.
3. EXTEND STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM.
4. SET SPACING BETWEEN DAMS TO ASSURE THAT THE ELEVATION AT THE TOP OF THE LOWER DAM IS THE SAME AS THE TOE ELEVATION OF THE UPPER DAM.
5. PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION.
6. MAKE SURE THAT THE CHANNEL REACH ABOVE THE MOST UPSTREAM IS STABLE.
7. ENSURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CULVERT ENTRANCES BELOW THE CHECK DAMS, ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

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Professional Engineer Seal  
 BRIAN T. O'KANE  
 037468  
 5/17/2015

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SHEET NAME:  
**EROSION CONTROL DETAILS**

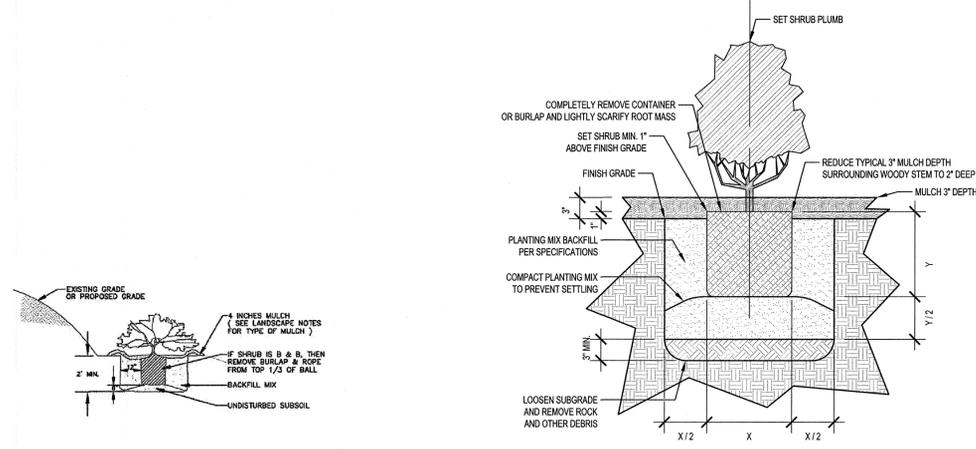
PHASE:  
**CONSTRUCTION DOCUMENTS**

#	REVISION	DATE
1	LEED	02-12-2015
2	EROSION CONTROL	03-26-2015
3	TOWN OF PITTSBORO	04-17-2015
4	TOWN OF PITTSBORO	05-18-2015

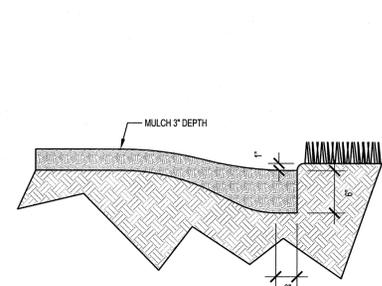
ISSUE DATE: 10-31-2014  
 PROJECT #: 13037  
 DRAWN BY: BTO/KCG  
 SHEET NUMBER  
**C-901**



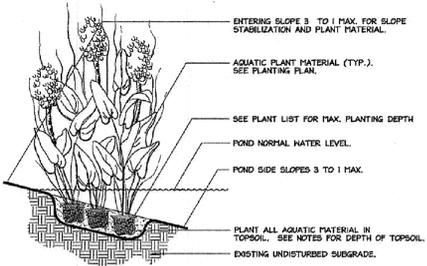
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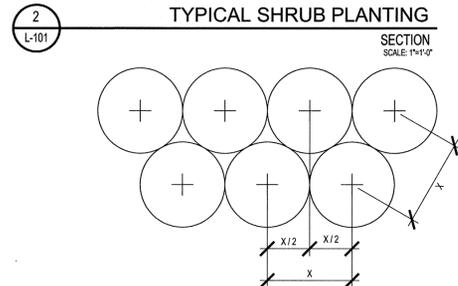
1 TYPICAL SHRUB PLANTING ON SLOPE SECTION SCALE: NOT TO SCALE



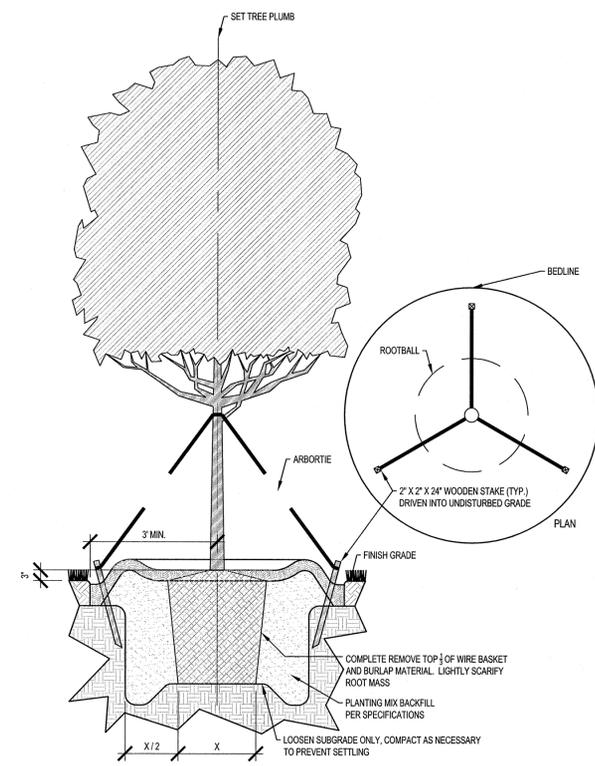
3 PLANTING BED TRENCH EDGING SECTION SCALE: 1/4\"/>



4 OPEN WATER BMP AREA PLANT DETAIL SECTION SCALE: NOT TO SCALE



5 TYPICAL STAGGERED ROW PLANT SPACING PLAN SCALE: 1/2\"/>



6 TYPICAL TREE PLANTING & GUYING PLAN & SECTION SCALE: 1/2\"/>

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
BET NIG	3	Betula nigra	River Birch Multi-Trunk	B&B	3\"/>	

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	REMARKS
ACE ABM	8	Acer buergerianum 'ABMTM'	PP16,629	B&B	3\"/>		

- BMP PLANTING NOTES:**
- ADEQUATE ACCESS MUST BE AVAILABLE FOR INSPECTION, MAINTENANCE, AND EQUIPMENT
  - ALL MAINTENANCE ACTIVITY SHOULD BE RECORDED. NOTES SHOULD INCLUDE THE DATES AND TYPE OF WORK PERFORMED AS WELL AS WHO PERFORMED THE WORK.
  - DEVELOPMENTAL PHASE MAINTENANCE EXTENDS THOUGHT 2 TO 5 GROWING SEASONS.
  - AT MATURITY, 50% OF THE INSTALLATION MUST BE GROWING AND HEALTHY.
  - INFERTILE SOILS SHOULD BE AMENDED BEFORE INSTALLATION AND THEN FERTILIZED PERIODICALLY THEREAFTER.
  - ACCEPTABLE FERTILIZER CAN BE: MINERAL, ORGANIC(MANURE), COMPOST OR GREEN CROPS.
  - WEEDING IS OFTEN NECESSARY IN THE FIRST GROWING SEASON, PARTICULARLY IF HERBACEOUS GRASSES ARE OUT-COMPETING THE YOUNG WOODY VEGETATION GROWTH. GRASS SHOULD BE REMOVED ON ABOUT 6\"/>

- BMP PLANT MATERIAL NOTES:**
- VEGETATED SHELVE TO BE PLANTED WITH APPROVED SHALLOW WATER AND SHALLOW LAND PLANTINGS AT THE RATE SPECIFIED:
    - MINIMUM PLANT QUANTITIES AND SIZE PER 200 SQFT OF SHALLOW WATER AREA:
      - 50 HERBACEOUS PLANTS OF AT LEAST 4 CUBIC-INCH CONTAINERS (EQUIVALENT TO 2 FT O.C. MIN., 1.5 FT O.C. RECOMMENDED)
    - MINIMUM PLANT QUANTITIES AND PLANT SIZES PER 200 SQFT OF SHALLOW LAND AREA:
      - 50 HERBACEOUS PLANTS OF AT LEAST 4 CUBIC-INCH CONTAINERS, OR
      - 8 SHRUBS AT LEAST 1 GALLON CONTAINER (EQUIVALENT TO 5 FT O.C. MIN., 3 FT O.C. RECOMMENDED), OR
      - 1 TREE OF AT LEAST 3 GALLON CONTAINER AND 40 GRASS-LIKE HERBACEOUS PLANTS OF AT LEAST 4 CUBIC-INCH CONTAINER

- SPECIAL NOTES:**
- CONTRACTOR TO TRAIN THE VINES TO GROW VERTICALLY ONTO THE ADJACENT ARCHITECTURAL TRELLIS AT INSTALLATION. DURING THE WARRANTY PERIOD, THE VINES SHALL BE ROUTINELY MAINTAINED AS NEEDED TO ENSURE PROPER TRAINING.

- GENERAL LANDSCAPE NOTES:**
- ALL PLANT MATERIAL PRICING SHALL INCLUDE MULCH, BED PREPARATION, AND STAKING.
  - ALL PLANTING BEDS SHALL RECEIVE 3\"/>

**GENERAL LANDSCAPE NOTES:**

- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
- ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT SCHEDULE.
- ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
- ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
- ALL SHADE TREES ADJACENT TO PEDESTRIAN WALKWAYS SHALL BE BRANCHED 6\"/>

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF PITTSBORO AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

**SURVEY NOTE:**  
 ALL EXISTING SITE AND TOPOGRAPHIC INFORMATION SHOWN WITHIN LIMITS OF TOPOGRAPHIC SURVEY BASED ON AN ALTA/ACSM LAND TITLE SURVEY DATED AUGUST 13, 2014. PROVIDED BY WITHERS & RAVENEL, 115 MACKENAN DR, CARY NC 27511. PHONE 919-469-3340

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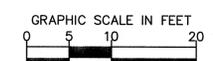
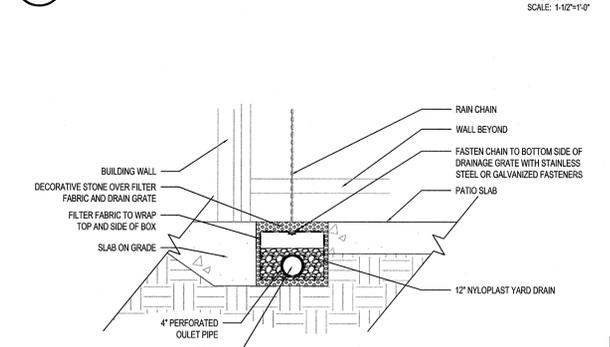
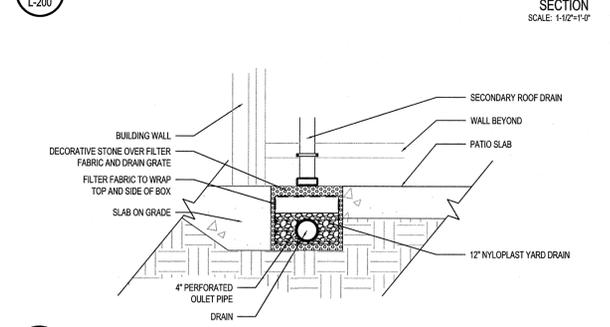
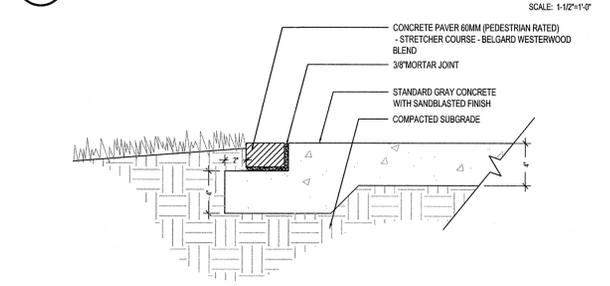
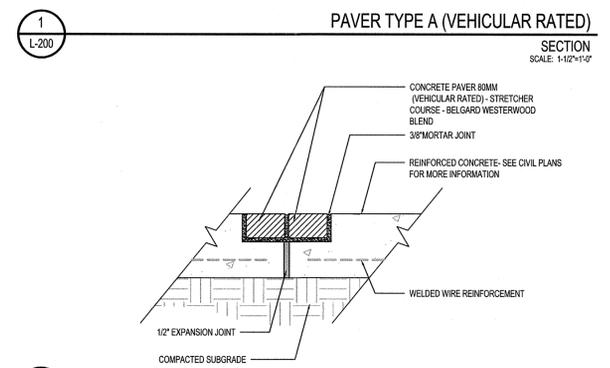
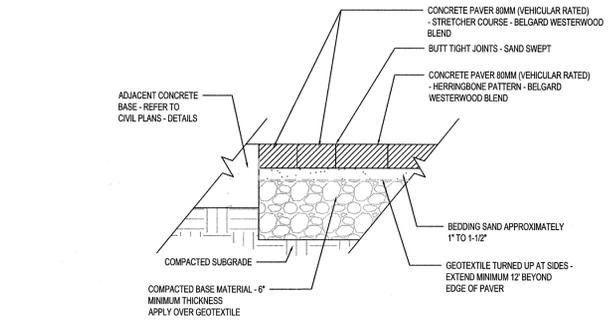
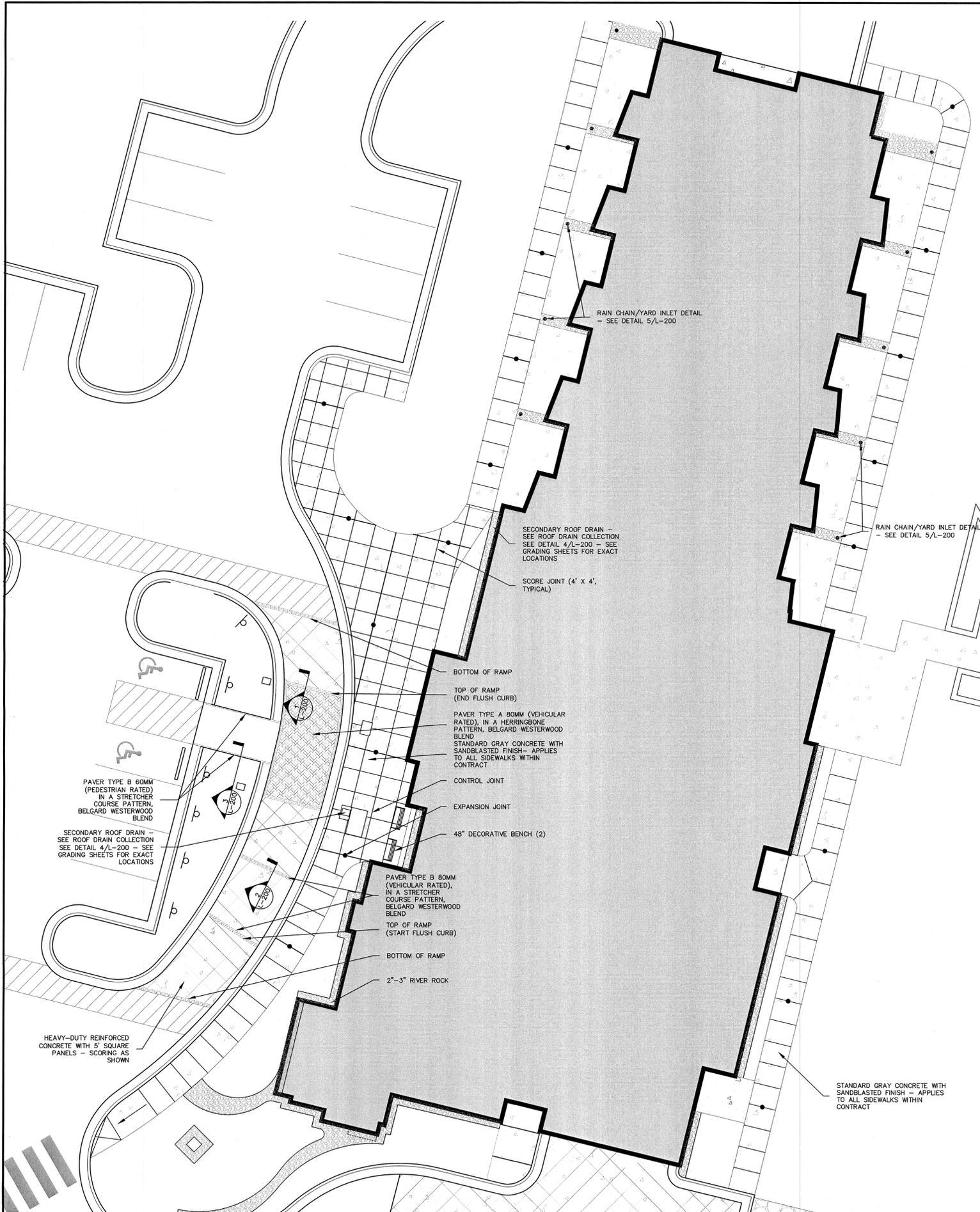
**LANDSCAPE DETAILS**

**PHASE: CONSTRUCTION DOCUMENTS**

# REVISION	DATE
1 LEED	02-12-2015
2 EROSION CONTROL	03-26-2015
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**ISSUE DATE: 10-31-2014**  
**PROJECT #: 13037**  
**DRAWN BY: BTO/KCG**  
 SHEET NUMBER  
**L-101**

Plotted By: ceahort, Craig Sheet Set: Hospice at Chatham Park Layout: L-200 HARDSCAPE PLAN May 20, 2015 11:09:24am K:\NOT\_LEAVE\011546001\_UNCH-Hospice at Chatham\_Park\Planning Phase\15\_CAD Files\PlanSheets\L-200 HARDSCAPE PLAN.dwg



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**SHEET NAME:**  
HARDSCAPE PLAN

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**DRAWN BY:** BTQ/KCG

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**L-200**