CONSTRUCTION PLANS

FOR

WESTFALL PHASE 3A

CHATHAM COUNTY, NORTH CAROLINA OCTOBER 1, 2014

SITE DATA

TOTAL SITE AREA: + 23.86 A

PINS:

9785-46-4160 9785-46-6087 9785-56-3026 9785-56-4582

W LOTS: 13 LOTS

MINIMUM LOT SIZE: 19,859 SF (0.46 Ac.)

MAXIMUM LOT SIZE: 36,304 SF (0.83 Ac.)

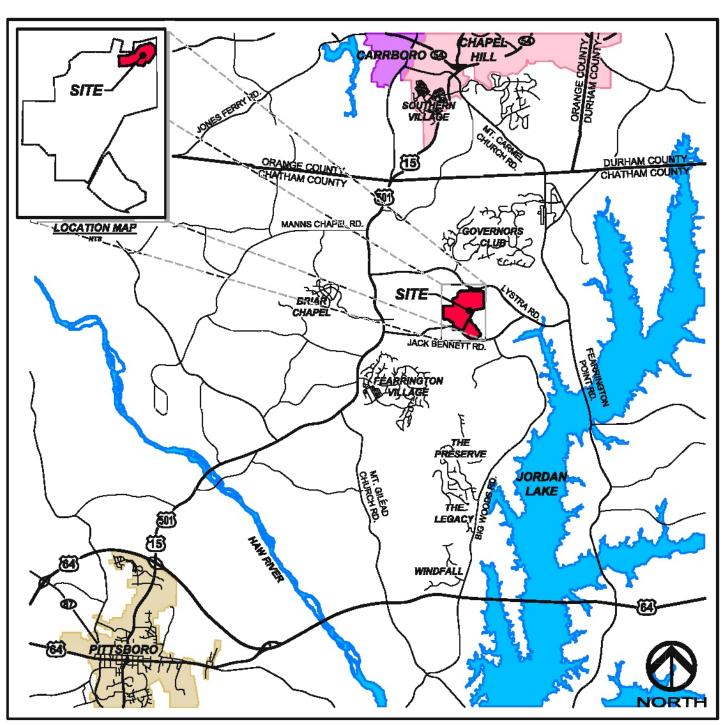
AVERAGE LOT SIZE: 26,719 SF (0.61 Ac.)

SETBACKS FRONT: 30' SIDE: 15' REAR: 25'

PROPERTY OWNER

WESTFALL ASSOCIATES, LLC.
140 TOWERVIEW COURT
CARY, NC 27513
CONTACT: COLEN DAVIDSON

PHONE: (919) 463-9940 EXT. 104



VICINITY MAP

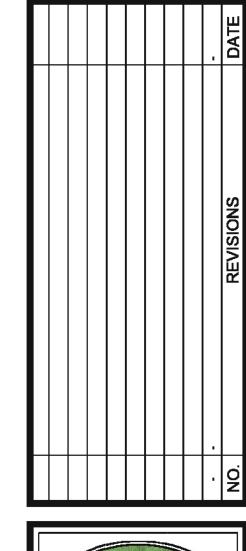


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GENERAL NOTES

- 1. EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-632-4949. THE CONTRACTOR SHALL CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
- 3. ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
- 4. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3.0' OF COVER AS MEASURED FROM FINISH GRADE AT THE LOCATION OF WHERE INSTALLED.
- 5. ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO AQUA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- 6. THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA PER FEMA FIRM PANEL 9784 MAP NUMBER 3710978400J, DATED FEBRUARY 2, 2007.
- 7. AQUA PERSONNEL SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTION IS TO BEGIN, ANY TESTING IS SCHEDULED, OR BEFORE ANY PIPE IS COVERED.
- 8. EXISTING OVERALL TOPOPGRAPHIC INFORMATION TAKEN FROM NCDOT LIDAR FOR CHATHAM COUNTY. ROADWAY CORRIDOR TOPOGRAPHIC INFORMATION TAKEN FROM SURVEYED INFORMATION BY CE GROUP, INC.
- 9. ALL STREETS ARE PRIVATE.





RALEIGH,NC 27603 PHONE: 919-367-8790 FAX: 919-322-0032

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N PH-3A

/ESTFALL SUBDIVISION P CONSTRUCTION PLANS

APRIL 17, 2014

ACS

800-12

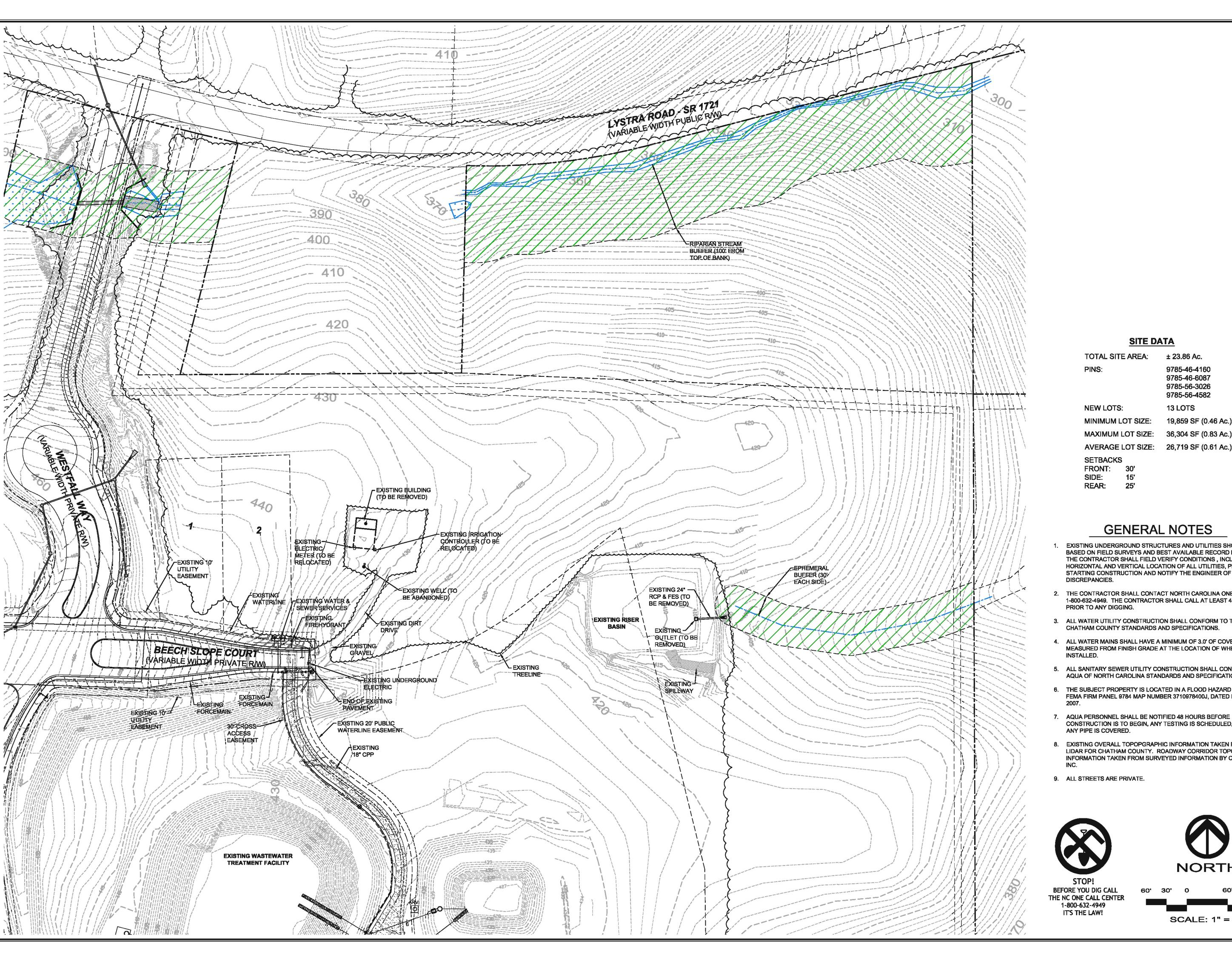
STOP!
BEFORE YOU DIG CALL
THE NC ONE CALL CENTER
1-800-632-4949
IT'S THE LAW!

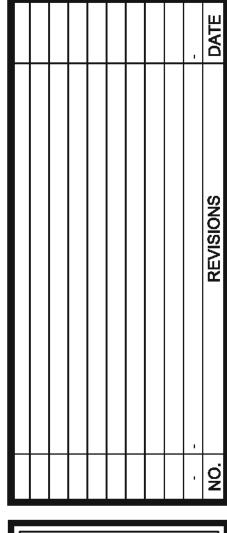
Computer Dwg. Name 800-12 Phase 3A - Cover.dwg Sheet No:

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No: **1**

Of







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APRIL 17, 2014

1" = 60'

800-12

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9785-56-4582 13 LOTS

9785-46-4160 9785-46-6087 9785-56-3026

MINIMUM LOT SIZE: 19,859 SF (0.46 Ac.)

MAXIMUM LOT SIZE: 36,304 SF (0.83 Ac.)

SITE DATA

TOTAL SITE AREA: ± 23.86 Ac.

AVERAGE LOT SIZE: 26,719 SF (0.61 Ac.)

SETBACKS

NEW LOTS:

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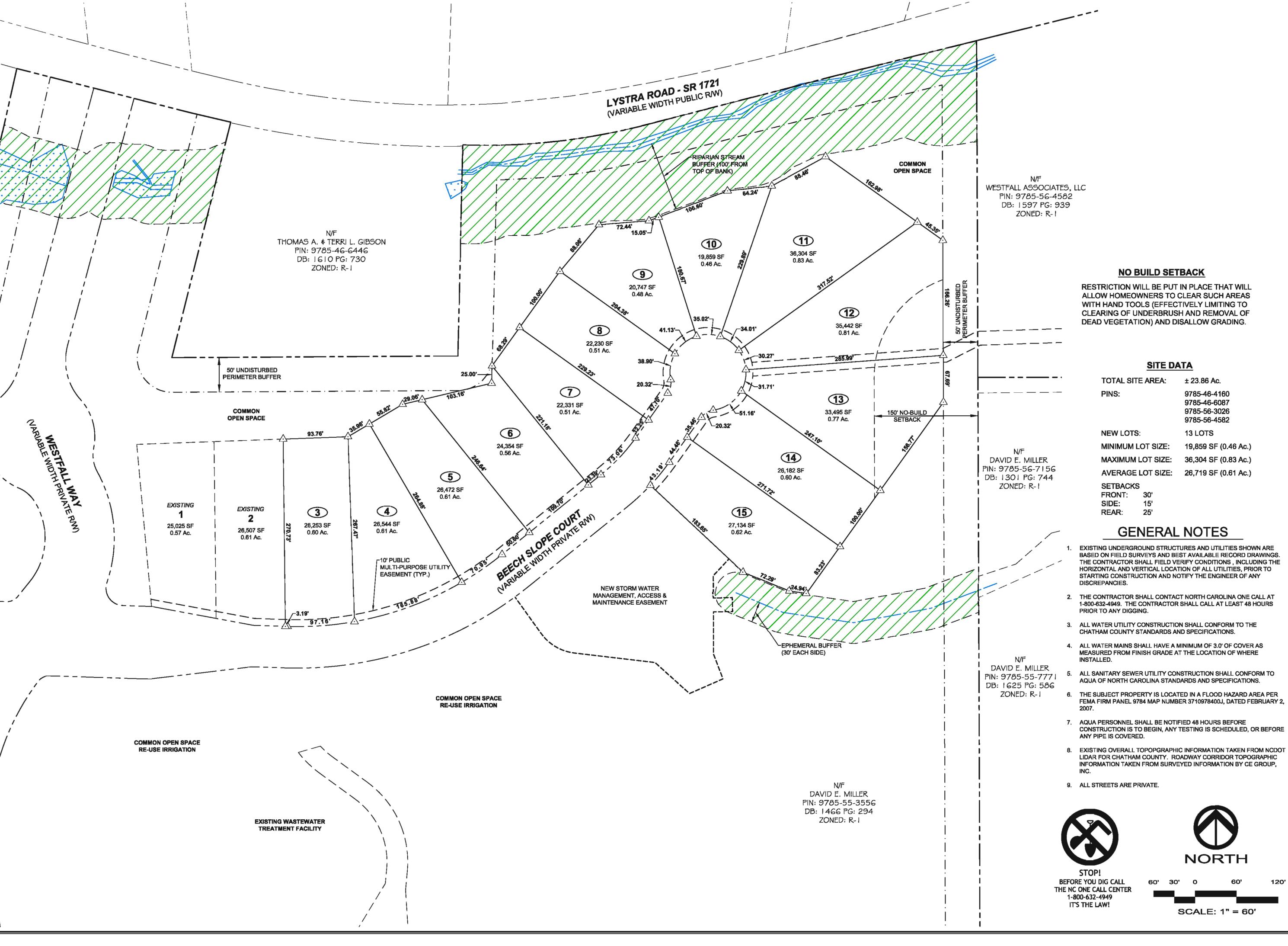
NORTH BEFORE YOU DIG CALL THE NC ONE CALL CENTER

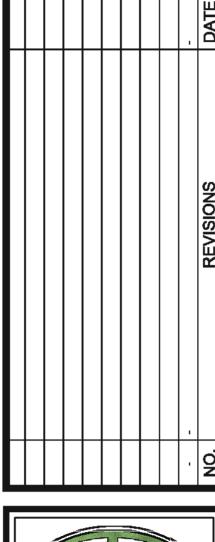


SCALE: 1" = 60'

Project No. Computer Dwg. Name 800-12 Phase 3A - 02 Ex Cond.dwg

Sheet No:







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- FEMA FIRM PANEL 9784 MAP NUMBER 3710978400J, DATED FEBRUARY 2,
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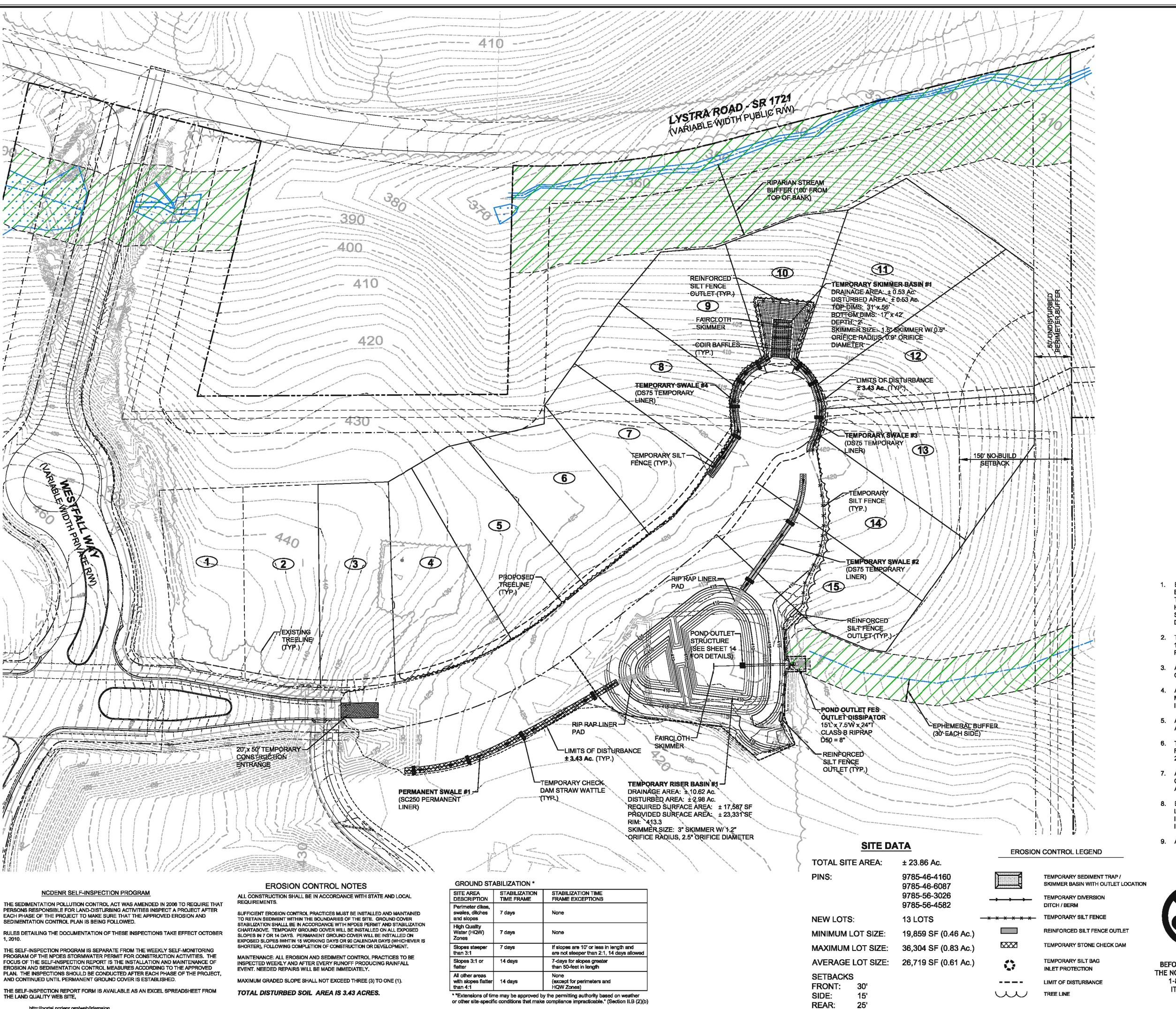
1" = 60'

Project No.

APRIL 17, 2014

800-12 Computer Dwg. Name 800-12 Phase 3A - Overall Subdivision Plan.dwg

UBDIVIE AMS TOWN



http://portal.ncdenr.org/web/lr/erosion

CONSTRUCTION SEQUENCE

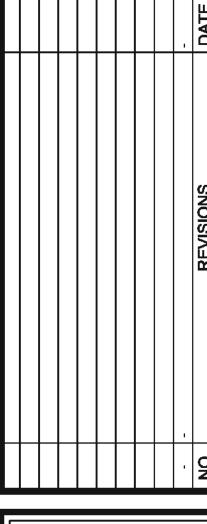
- 1. OBTAIN GRADING PERMIT / FINAL APPROVAL FROM CHATHAM COUNTY ENVIRONMENTAL HEALTH.
- 2. CONTACT THE CHATHAM COUNTY EROSION CONTROL SECTION AT 919-545-8343 TO SET UP A PRE-CONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE WORK
- 3. INSTALL, IN ORDER OF THIS SEQUENCE: DELINEATE THE PROPOSED TREELINE/DISTURBED LIMIT LINE AND INSTALL ALL PROPOSED SILT FENCING THROUGHOUT THE ENTIRE PROJECT AREA ALONG WITH TEMPORARY CONSTRUCTION

CONTRACTOR SHALL INSTALL THE PERMANENT WATER QUALITY / RISER BASIN AND SKIMMER BASIN. CLEAR ONLY AS NECESSARY TO ACCESS THESE AREAS AND TO CONSTRUCT THESE DEVICES. ONCE THE PREVIOUS MEASURES ARE INSTALLED, CLEAR ONLY AS REQUIRED TO INSTALL TEMPORARY DIVERSION BERMS/ DITCHES AND GRAVEL DIVERSION DIKES TO THESE SEDIMENT TRAPS / RISER BASINS/ SKIMMER BASINS AND OTHER TEMPORARY MEASURES AS SHOWN ON THE APPROVED PLAN. THE CONTRACTOR SHALL STABILIZE ALL DIVERSIONS, SEDIMENT TRAPS, RISER BASINS, AND SKIMMER BASINS IMMEDIATELY UPON THEIR CONSTRUCTION.

ALL MEASURES SHALL BE INSTALLED AND INSPECTED FOR COMPLIANCE PRIOR TO COMMENCEMENT OF ANY PROPOSED R.O.W. CLEARING/GRUBBING AND EXCAVATION.

- 4. CALL FOR AN INSPECTION FOR COMPLIANCE PRIOR TO ANY ADDITIONAL CLEARING. OBTAIN CERTIFICATE OF COMPLIANCE THROUGH ON-SITE INSPECTION BY ENVIRONMENTAL INSPECTOR.
- 5. ONCE CERTIFICATE OF COMPLIANCE IS OBTAINED BEGIN CLEARING AND GRUBBING OF REMAINING DISTURBED AREAS AS SHOWN ON APPROVED PLAN. BEGIN EXCAVATION OF ROADWAYS AND INSTALLATION OF SUBSURFACE DRAINAGE AND UTILITIES. INSTALL ADDITIONAL INLET PROTECTION DEVICES AS REQUIRED AND/OR SHOWN. ONCE SUBSURFACE DRAINAGE IS INSTALLED AND OPERATIONAL, TEMPORARY SKIMMER BASIN 1 CAN BE REMOVED AND THE SLOPES STABILIZED. SEED AND MULCH ALL DENUDED AREAS WITHIN 15 WORKING DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
- 6. REQUEST FINAL APPROVAL BY ENVIRONMENTAL INSPECTOR. IF THE INSPECTOR IS SATISFIED WITH UPSTREAM PERMANENT GROUND COVER, BEGIN REMOVING TEMPORARY EROSION CONTROL MEASURES. REMOVE THE SEDIMENT TRAPS AND ALL UNSTABLE SEDIMENT. AFTER STABILIZATION HAS OCCURRED REMOVE SEDIMENT FROM RISER BASIN/WATER QUALITY POND AND CONVERT TO PERMANENT STRUCTURE.

*CONTRACTOR TO REESTABLISH TEMPORARY DIVERSION SWALES AT THE END OF EACH DAY TO ENSURE DRAINAGE TO THE APPROPRIATE STRUCTURE.





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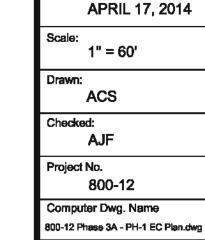
GENERAL NOTES

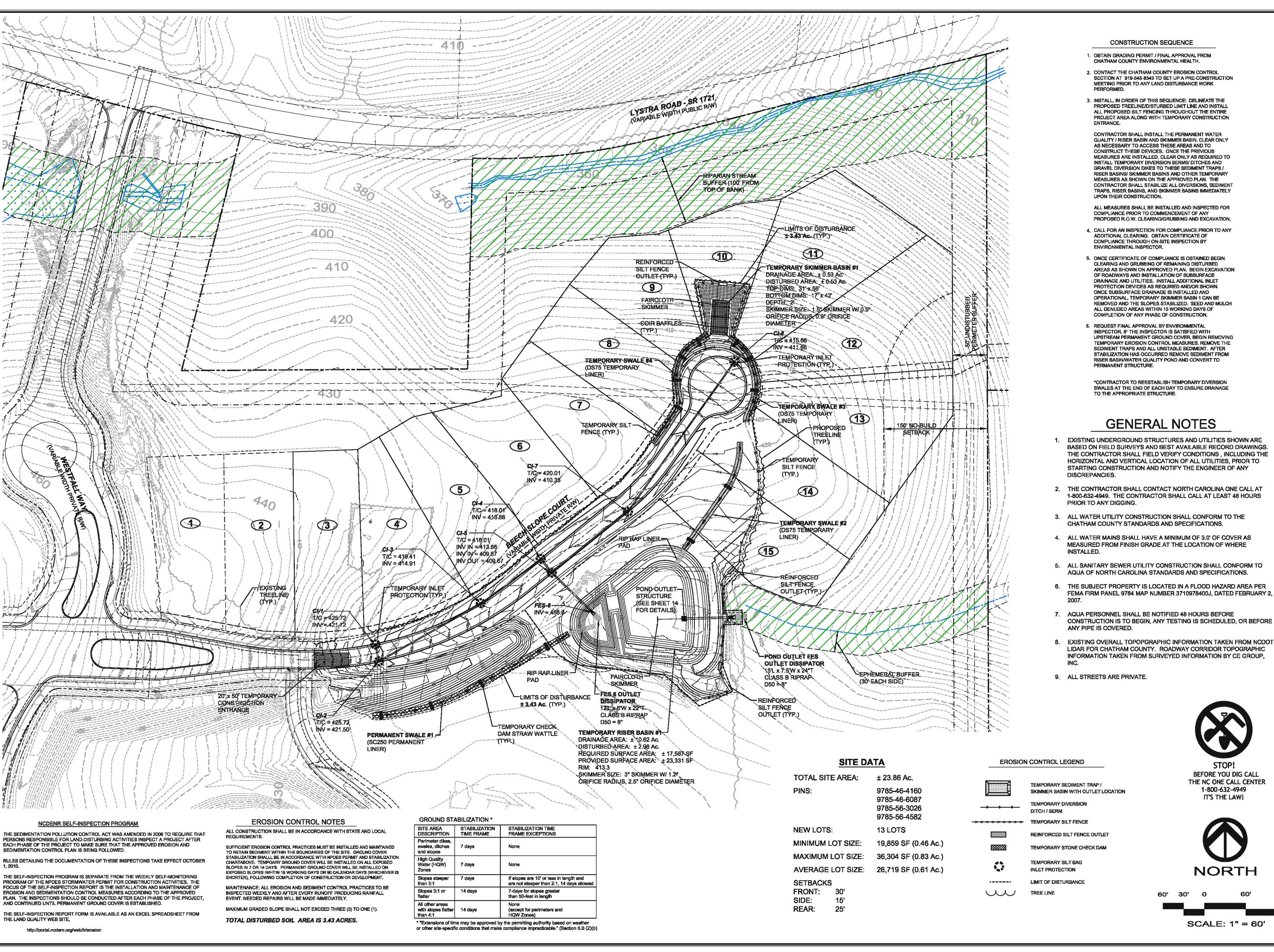
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BEFORE YOU DIG CALL THE NC ONE CALL CENTER 1-800-632-4949 IT'S THE LAW!

NORTH SCALE: 1" = 60'



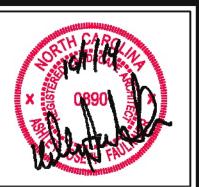




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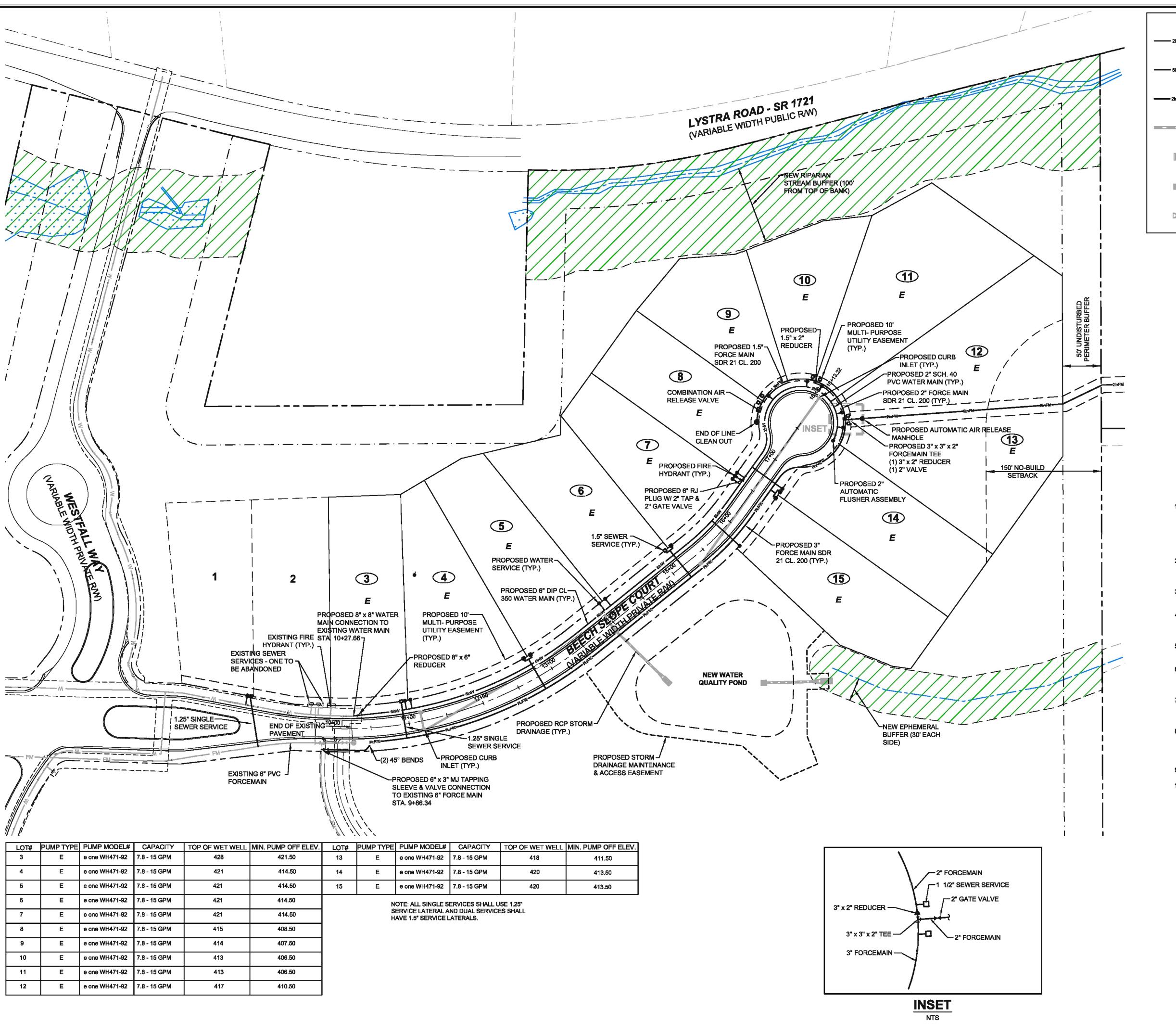
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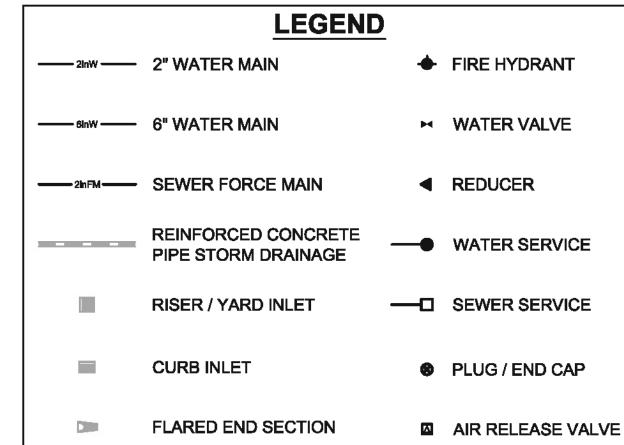
800-12



Computer Dwg. Name 800-12 Phase 3A - PH-2 EC Plan.dwg Sheet No: 120'

Project No.





SITE DATA

TOTAL SITE AREA: ± 23.86 Ac.

PINS:

9785-46-6087 9785-56-3026 9785-56-4582

9785-46-4160

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MAXIMUM LOT SIZE: 36,304 SF (0.83 Ac.)

AVERAGE LOT SIZE: 26,719 SF (0.61 Ac.) SETBACKS

FRONT: SIDE: **REAR**:

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- 10. ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE BY THE CONTRACTOR ONLY AFTER THE CONNECTION PROCEDURE AND THE WORK SCHEDULING HAS BEEN REVIEWED AND APPROVED BY AQUA. THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST TO AQUA A MINIMUM OF ONE (1) WEEK PRIOR TO SCHEDULING SAID CONNECTIONS. THE REQUEST SHALL OUTLINE THE FOLLOWING: - POINTS OF CONNECTION, FITTING TO BE USED AND METHOD.
- ESTIMATED CONSTRUCTION TIME FOR SAID CONNECTIONS. ALL CONNECTIONS SHALL ONLY BE MADE ON THE AGREED UPON DATE AND TIME. IF THE CONTRACTOR DOES NOT INITIATE AND COMPLETE THE CONNECTION WORK IN THE AGREED UPON MANNER. THE CONTRACTOR SHALL BE REQUIRED TO RESCHEDULE THE SAID CONNECTION BY FOLLOWING THE ABOVE PROCEDURE.

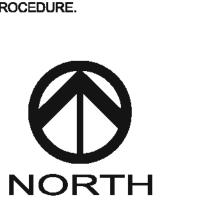


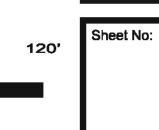
THE NC ONE CALL CENTER

1-800-632-4949 IT'S THE LAW!

BEFORE YOU DIG CALL

SCALE: 1" = 60'





APRIL 17, 2014

1" = 60'

800-12

Computer Dwg. Name

800-12 Phase 3A - Utility Plan.dwg

Project No.

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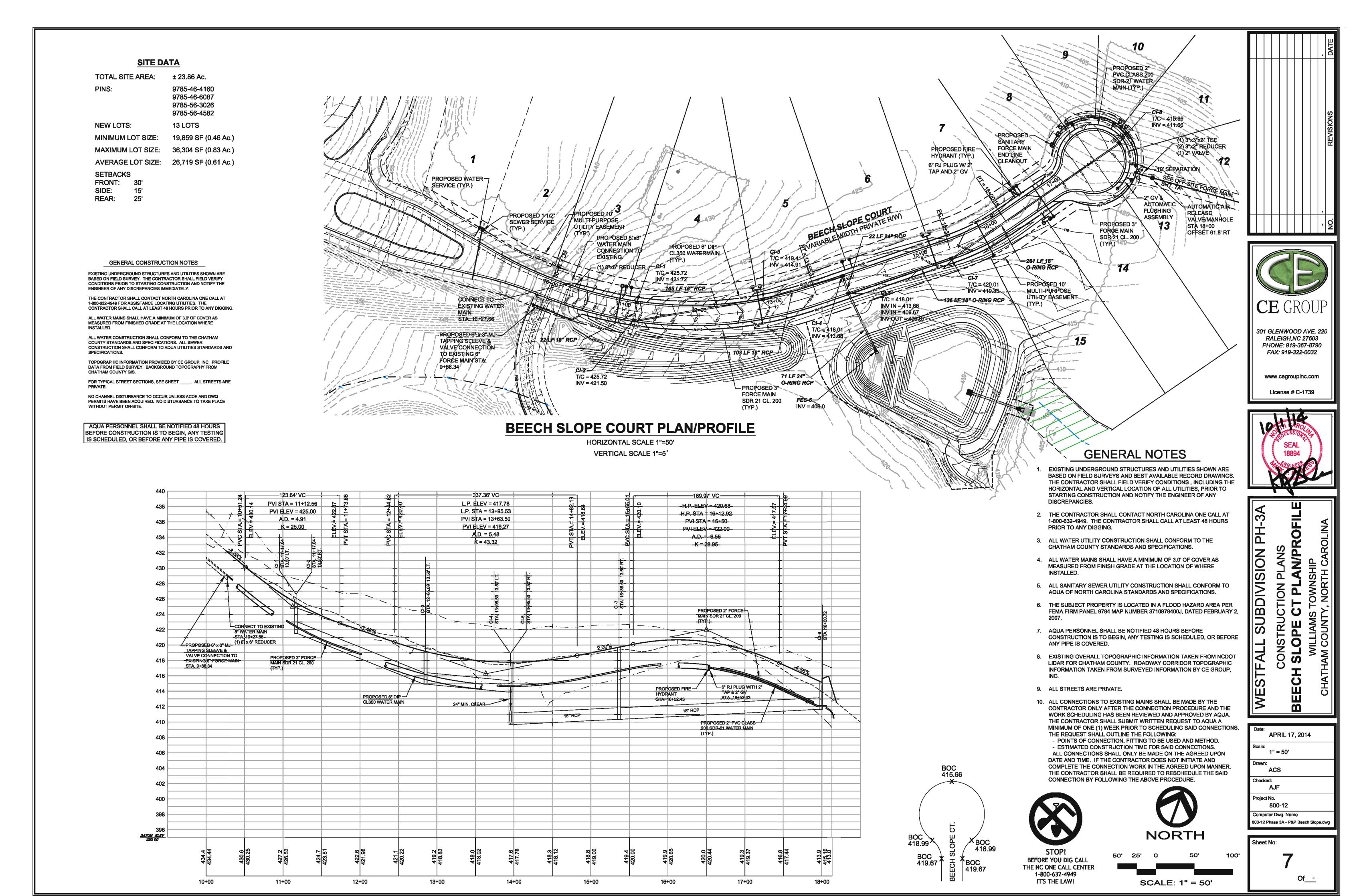
RALEIGH,NC 27603

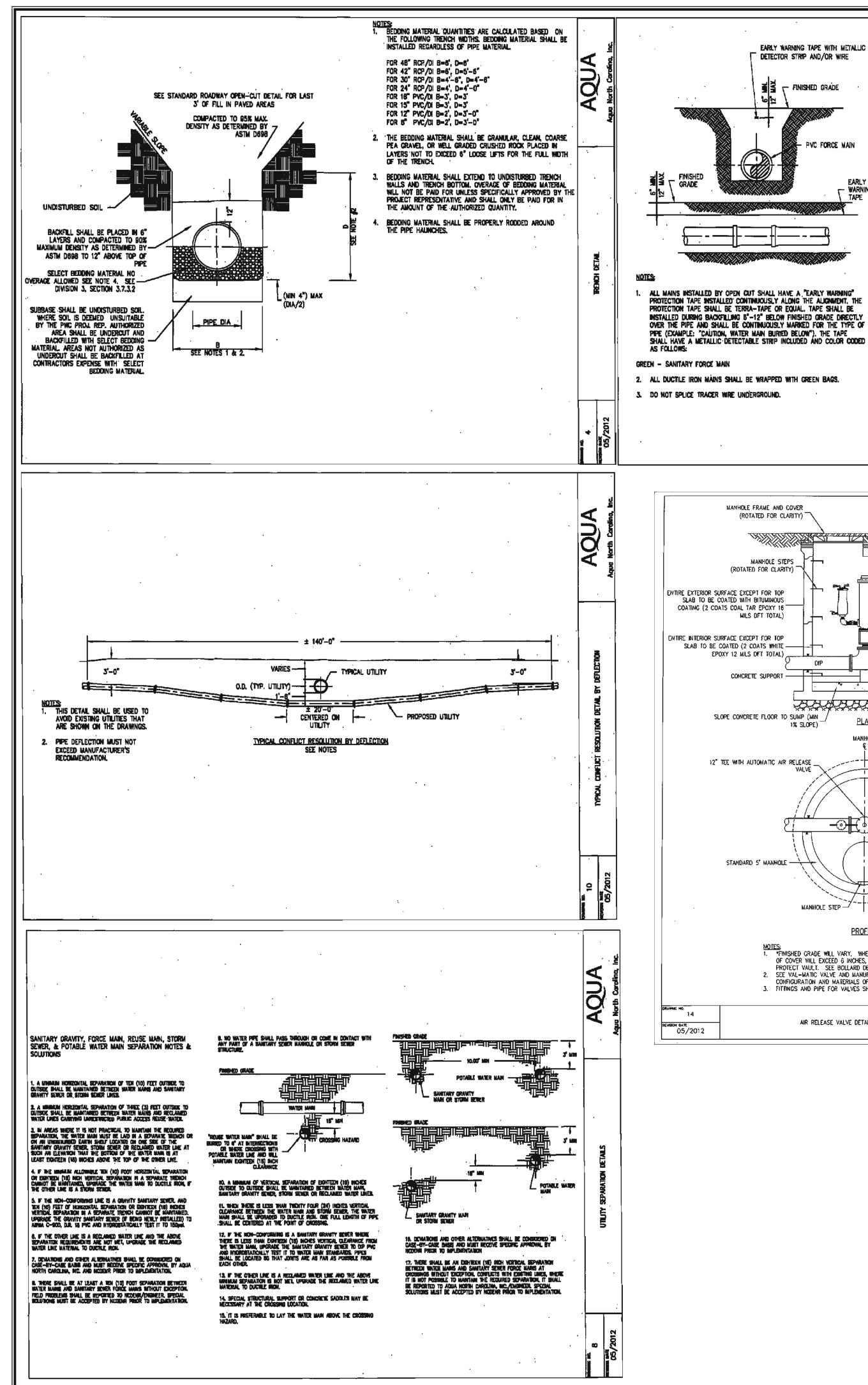
PHONE: 919-367-8790

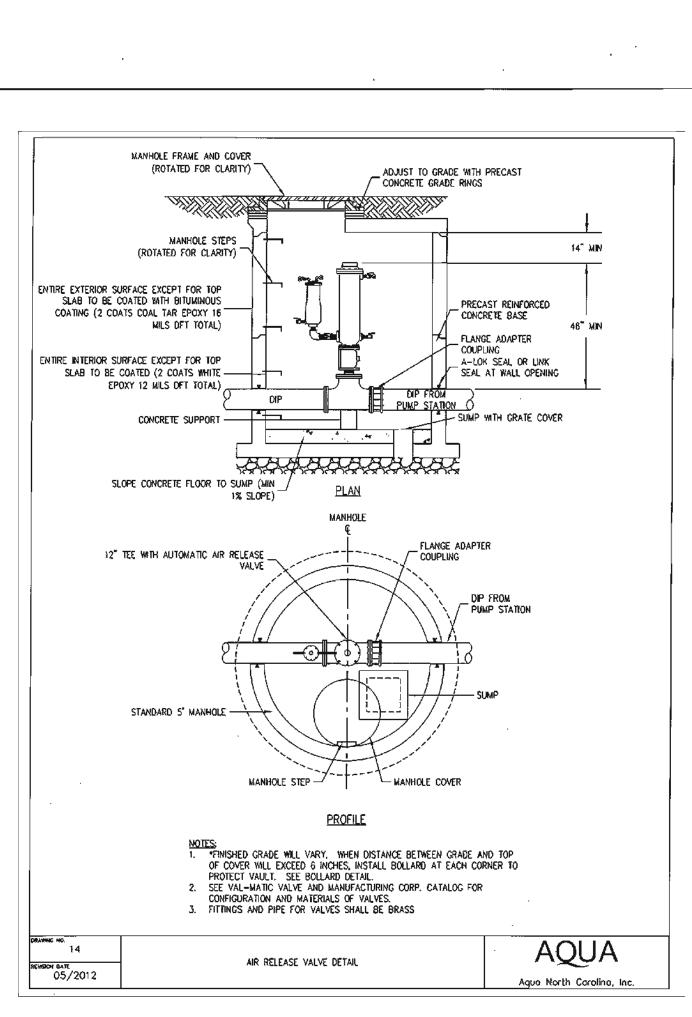
FAX: 919-322-0032

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EARLY WARNING TAPE WITH METALLIC DETECTOR STRIP AND/OR WIRE

FINISHED GRADE

METALLIC OR VINYL CONTINUOUS

WIRE TO BE PLACED INSIDE PIPE WITH

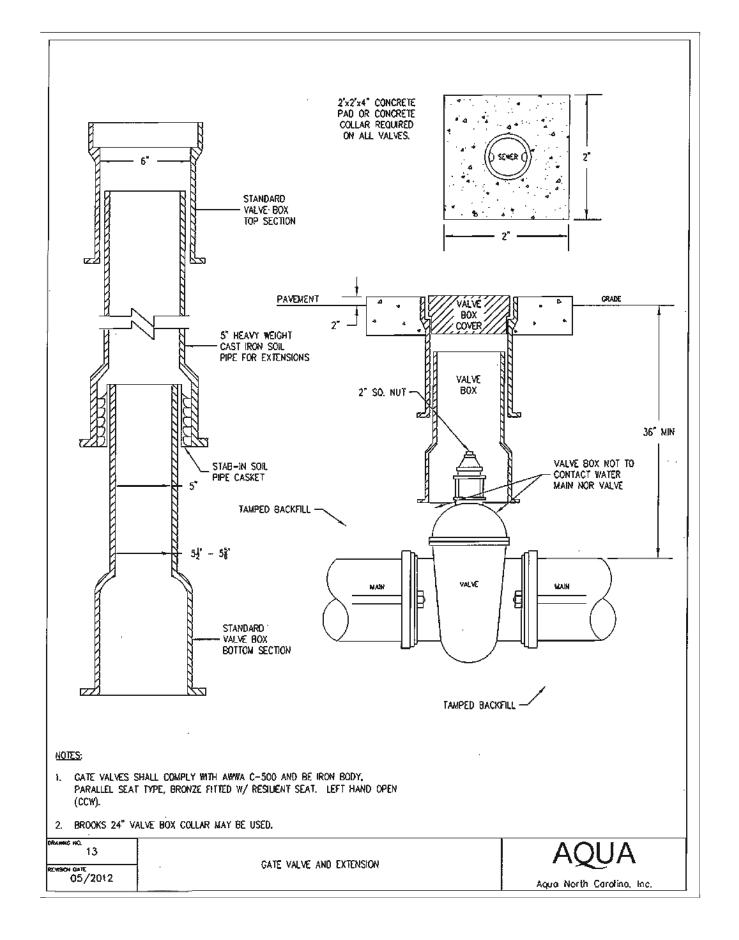
_ A MIN. OF 12" OF EXCESS WIRE -

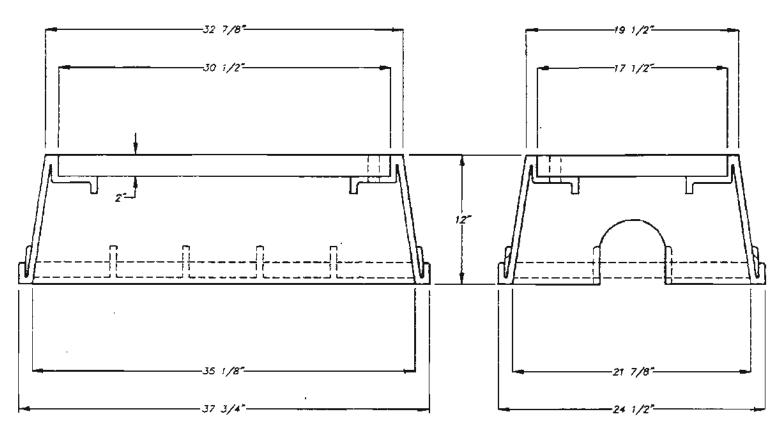
COILED (TYP.)

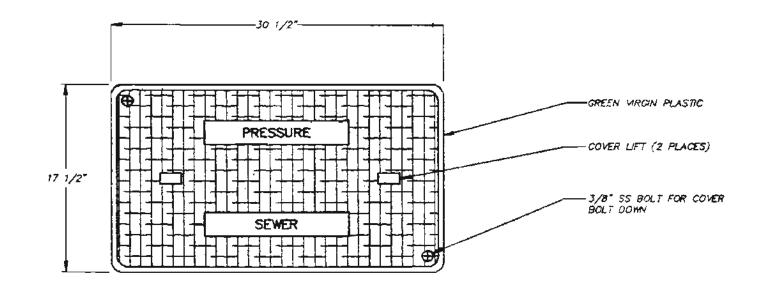
IDENTIFICATION/WARNING TAPE

GROUND LEVEL -

TYPICAL UTILITY PIPE







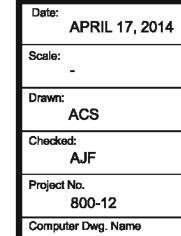
PLAN VIEW

PRESSURE SEWER - STANDARD DETAIL **SERVICE BOX**

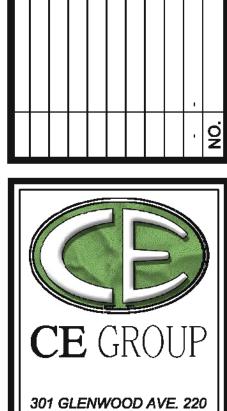
NOT TO SCALE

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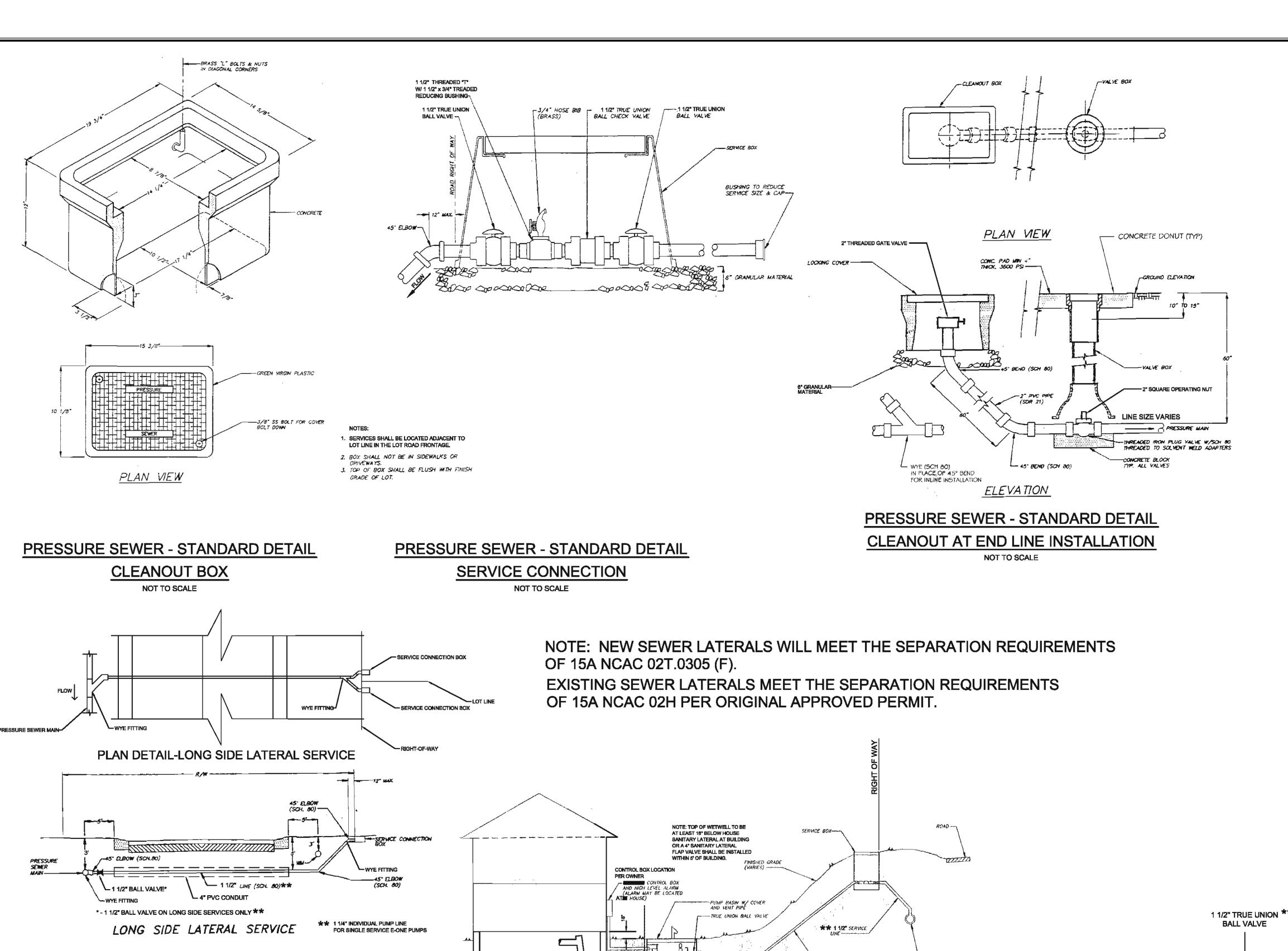
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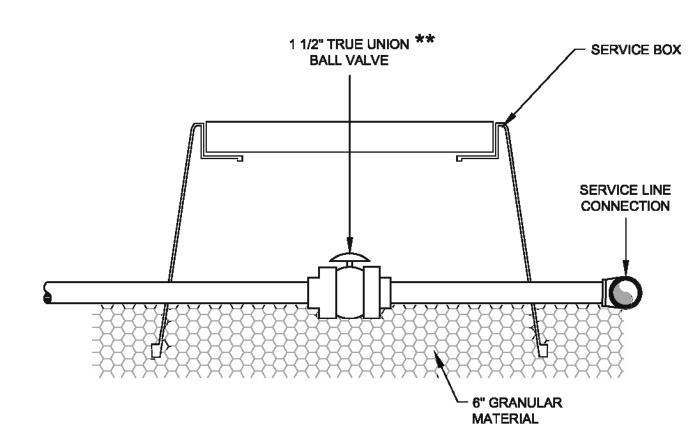
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BALL VALVE DETAIL

FOR LONG-SIDE SERVICE

NOT TO SCALE

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PRESSURE SEWER - STANDARD DETAIL

MAINTENANCE (INCLUDES CONTROL PANEL)

** 1 1/4" INDIVIDUAL PUMP LINE FOR SINGLE SERVICE E-ONE PUMPS

★★ 1 1/4" INDIVIDUAL PUMP LINE

NOT TO SCALE

ALL PRIVATE PLUMBING SHALL BE IN ACCORDANCE WITH NORTH CAROLINA BUILDING CODE.

HOMEOWNER -

SERVICE CONNECTION BOX

SHORT SIDE LATERAL SERVICE

PRESSURE SEWER - STANDARD DETAIL

LATERAL SERVICE

NOT TO SCALE

INDIVIDUAL GRINDER PUMP SYSTEM



APRIL 17, 2014

CE GROU

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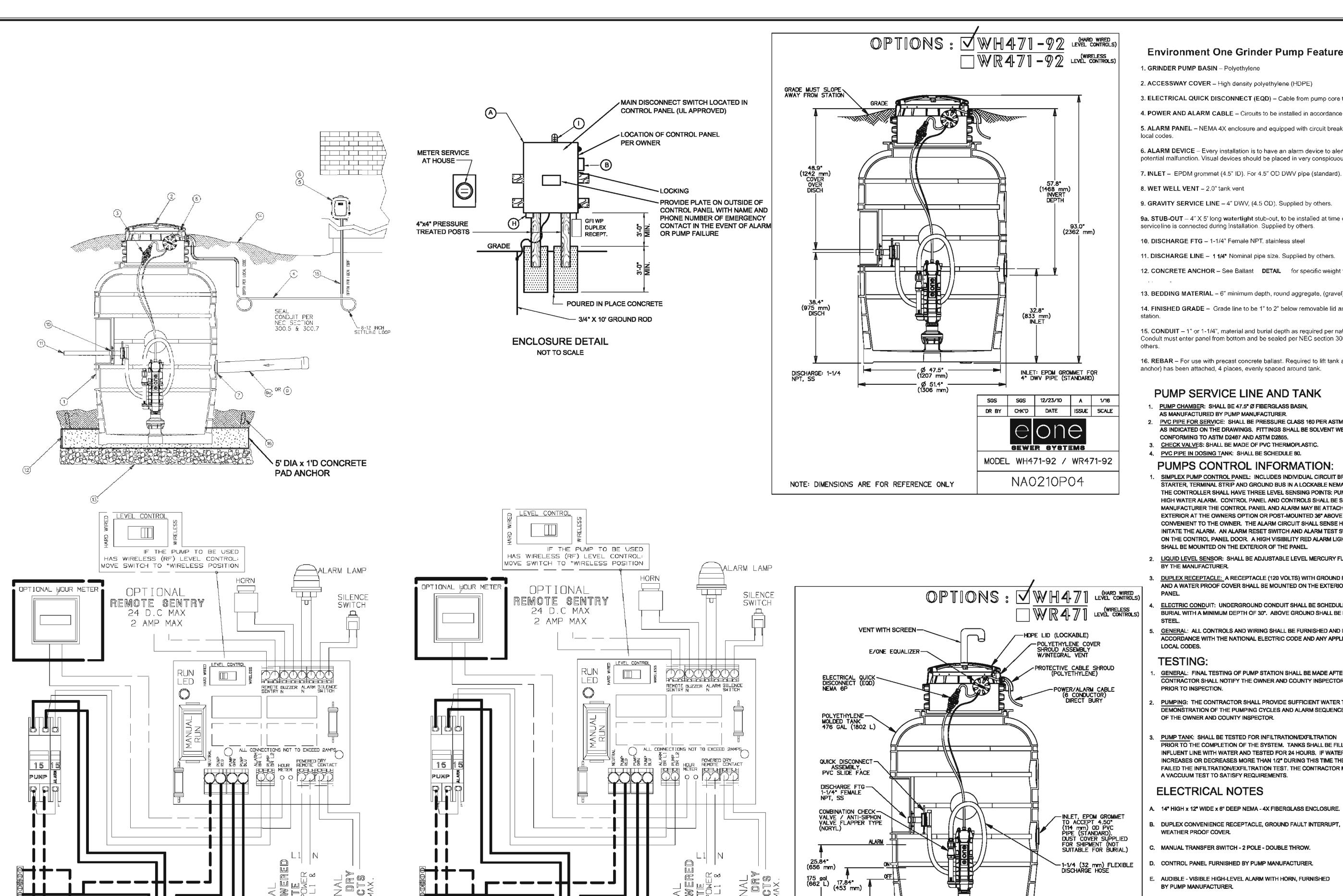
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800-12 800-12 Phase 3A - Sewer Details.dwg

Sheet No:



POWER ₹

A DEDICATED 30A CIRCUIT BREAKER.

240 VOLT WIRING - SIMPLEX 240 VOLT WIRING - SIMPLEX

MANUAL

OPTIONAL ARM POWI REMOTE OUTPUT POV BETWEEN LI

POWER Z

∠ ALARM

240V

A DEDICATED 30A CIRCUIT BREAKER.

IONAL POWE EMMOTE PUT POV

117 gal (443 L)

13.84* (352 mm)

SEMI-POSITIVE DISPLACEMENT TYPE PUMP — DIRECTLY DRIVEN BY A 1 HP MOTOR

Environment One Grinder Pump Feature Identification

1. GRINDER PUMP BASIN – Polyethylene

2. ACCESSWAY COVER – High density polyethylene (HDPE)

3. ELECTRICAL QUICK DISCONNECT (EQD) – Cable from pump core terminates here

4. POWER AND ALARM CABLE – Circuits to be installed in accordance with local codes

5. ALARM PANEL - NEMA 4X enclosure and equipped with circuit breakers. Locate according to local codes.

6. ALARM DEVICE – Every installation is to have an alarm device to alert the homeowner of a

potential malfunction. Visual devices should be placed in very conspicuous locations.

9. GRAVITY SERVICE LINE – 4" DWV, (4.5 OD). Supplied by others.

9a. STUB-OUT – 4" X 5' long watertight stub-out, to be installed at time of burial unless the gravity serviceline is connected during installation. Supplied by others.

10. DISCHARGE FTG – 1-1/4" Female NPT, stainless steel

11. DISCHARGE LINE - 1 1/4" Nominal pipe size. Supplied by others.

12. CONCRETE ANCHOR – See Ballast DETAIL for specific weight for your station height.

13. BEDDING MATERIAL - 6" minimum depth, round aggregate, (gravel). Supplied by others.

14. FINISHED GRADE - Grade line to be 1" to 2" below removable lid and slope away from the

15. CONDUIT – 1" or 1-1/4", material and burial depth as required per national and local codes. Conduit must enter panel from bottom and be sealed per NEC section 300.5 & 300.7. Supplied by

16. REBAR – For use with precast concrete ballast. Required to lift tank after ballast (concrete anchor) has been attached, 4 places, evenly spaced around tank.

PUMP SERVICE LINE AND TANK

- 1. PUMP CHAMBER: SHALL BE 47.5" Ø FIBERGLASS BASIN,
- AS MANUFACTURED BY PUMP MANUFACTURER. PVC PIPE FOR SERVICE: SHALL BE PRESSURE CLASS 160 PER ASTM D2241 AS INDICATED ON THE DRAWINGS. FITTINGS SHALL BE SOLVENT WELD SOCKET-TYPE CONFORMING TO ASTM D2467 AND ASTM D2855.
- 3. CHECK VALVES: SHALL BE MADE OF PVC THERMOPLASTIC.
- 4. PVC PIPE IN DOSING TANK: SHALL BE SCHEDULE 80.

PUMPS CONTROL INFORMATION:

- SIMPLEX PUMP CONTROL PANEL: INCLUDES INDIVIDUAL CIRCUIT BREAKERS, MOTOR STARTER, TERMINAL STRIP AND GROUND BUS IN A LOCKABLE NEMA 4X ENCLOSURE. THE CONTROLLER SHALL HAVE THREE LEVEL SENSING POINTS: PUMP OFF, PUMP ON, HIGH WATER ALARM. CONTROL PANEL AND CONTROLS SHALL BE SUPPLIED BY PUMP MANUFACTURER THE CONTROL PANEL AND ALARM MAY BE ATTACHED TO THE HOME EXTERIOR AT THE OWNERS OPTION OR POST-MOUNTED 36" ABOVE GRADE AT A LOCATION CONVENIENT TO THE OWNER. THE ALARM CIRCUIT SHALL SENSE HIGH WATER LEVEL AND INITATE THE ALARM. AN ALARM RESET SWITCH AND ALARM TEST SWITCH SHALL BE PROVIDED ON THE CONTROL PANEL DOOR. A HIGH VISIBILITY RED ALARM LIGHT AND AUDIBLE ALARM SHALL BE MOUNTED ON THE EXTERIOR OF THE PANEL.
- LIQUID LEVEL SENSOR: SHALL BE ADJUSTABLE LEVEL MERCURY FLOAT SWITCH SUPPLIED BY THE MANUFACTURER.
- 3. DUPLEX RECEPTACLE: A RECEPTACLE (120 VOLTS) WITH GROUND FAULT PROTECTION AND A WATER PROOF COVER SHALL BE MOUNTED ON THE EXTERIOR OF THE PUMP
- ELECTRIC CONDUIT: UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC DIRECT BURIAL WITH A MINIMUM DEPTH OF 30". ABOVE GROUND SHALL BE RIGID GALVANIZED
- GENERAL: ALL CONTROLS AND WIRING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ANY APPLICABLE STATE AND

TESTING:

- GENERAL: FINAL TESTING OF PUMP STATION SHALL BE MADE AFTER ITS COMPLETION. THE CONTRACTOR SHALL NOTIFY THE OWNER AND COUNTY INSPECTOR A MINIMUM OF 72 HOURS
- PUMPING: THE CONTRACTOR SHALL PROVIDE SUFFICIENT WATER TO ALLOW FULL DEMONSTRATION OF THE PUMPING CYCLES AND ALARM SEQUENCE TO THE SATISFACTION OF THE OWNER AND COUNTY INSPECTOR.
- PRIOR TO THE COMPLETION OF THE SYSTEM. TANKS SHALL BE FILLED TO THE TOP OF INFLUENT LINE WITH WATER AND TESTED FOR 24 HOURS. IF WATER LEVEL EITHER INCREASES OR DECREASES MORE THAN 1/2" DURING THIS TIME THE TANKS WILL HAVE FAILED THE INFILTRATION/EXFILTRATION TEST. THE CONTRACTOR MAY OPT TO PERFORM A VACCUUM TEST TO SATISFY REQUIREMENTS.

ELECTRICAL NOTES

- A. 14" HIGH x 12" WIDE x 6" DEEP NEMA 4X FIBERGLASS ENCLOSURE.
- B. DUPLEX CONVENIENCE RECEPTACLE, GROUND FAULT INTERRUPT
- MANUAL TRANSFER SWITCH 2 POLE DOUBLE THROW.
- CONTROL PANEL FURNISHED BY PUMP MANUFACTURER
- E. AUDIBLE VISIBLE HIGH-LEVEL ALARM WITH HORN, FURNISHED BY PUMP MANUFACTURER.
- ALL CONTROL WIRING TO BE FURNISHED BY PUMP MANUFACTURER.
- G. DISCONNECT SWITCH, SERVICE ENTRANCE RATED, 80A/2P,W/40AF
- H. ALARM BUZZER

SGS | SGS | 12/23/10 | B | 1/16 DR BY CHK'D DATE ISSUE SCALE

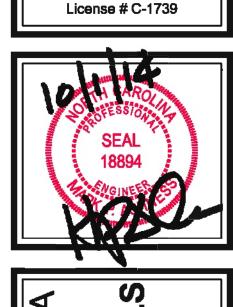
MODEL WH471 / WR471 DETAIL SHEET

NA0210P02



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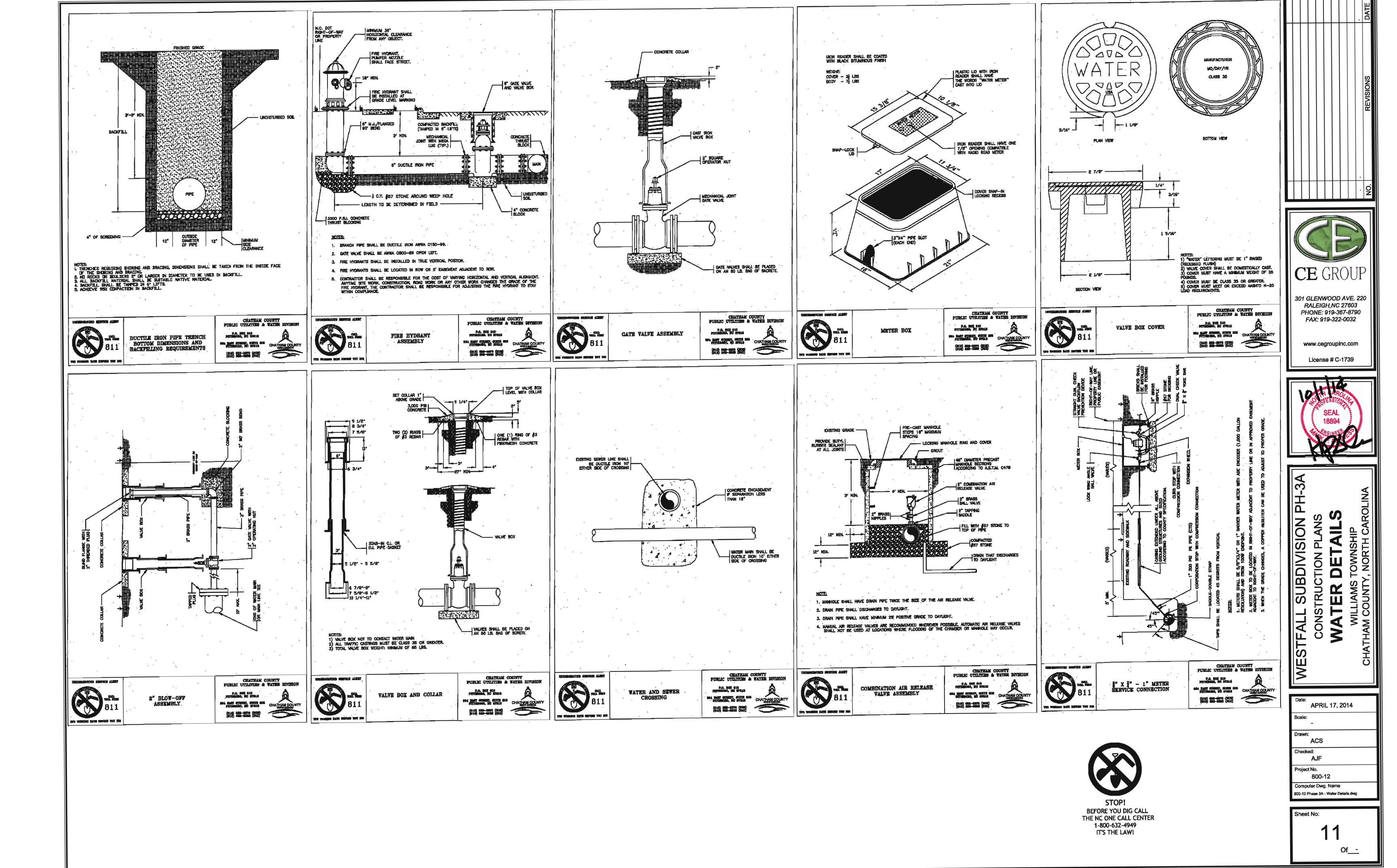


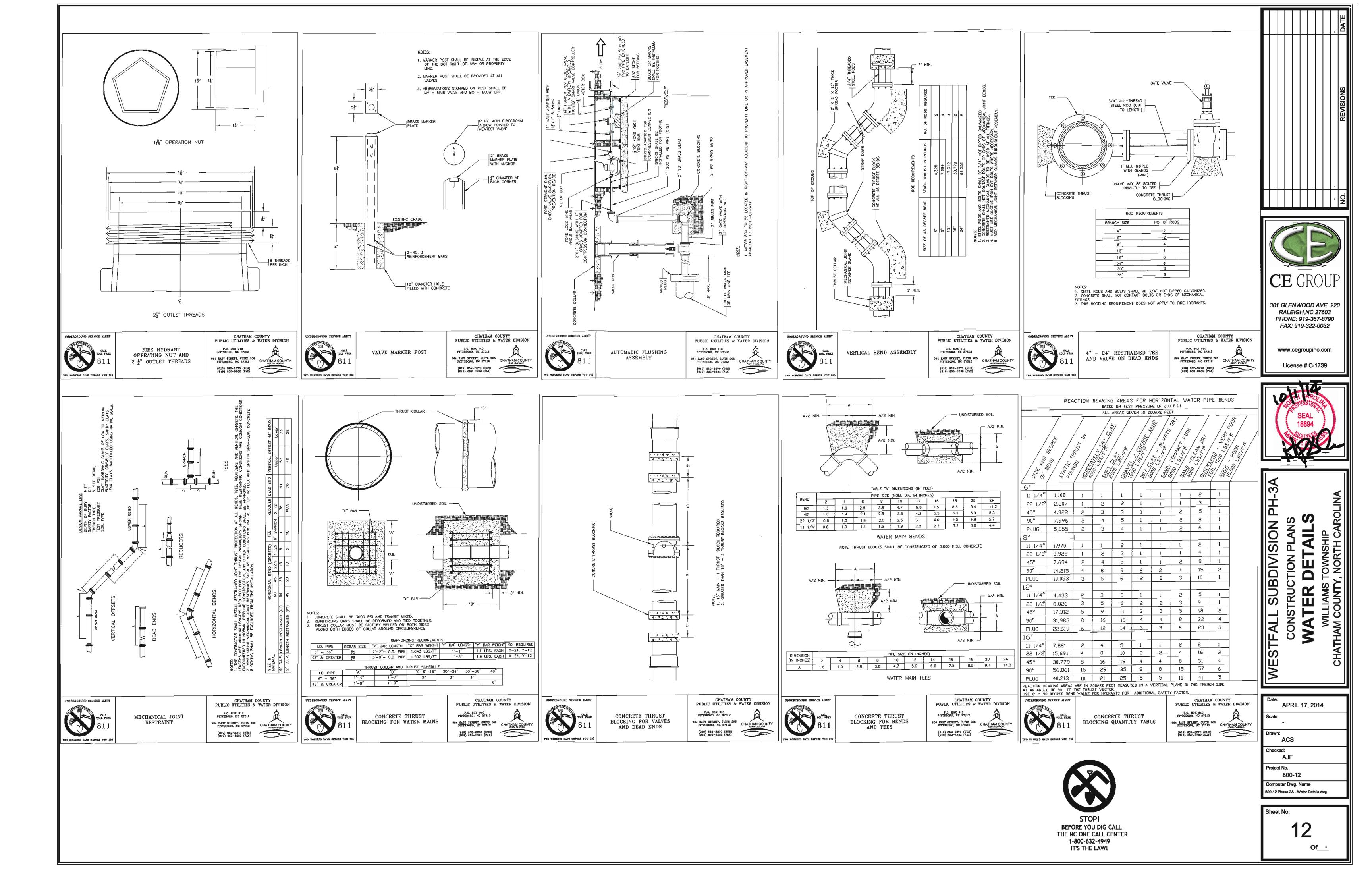


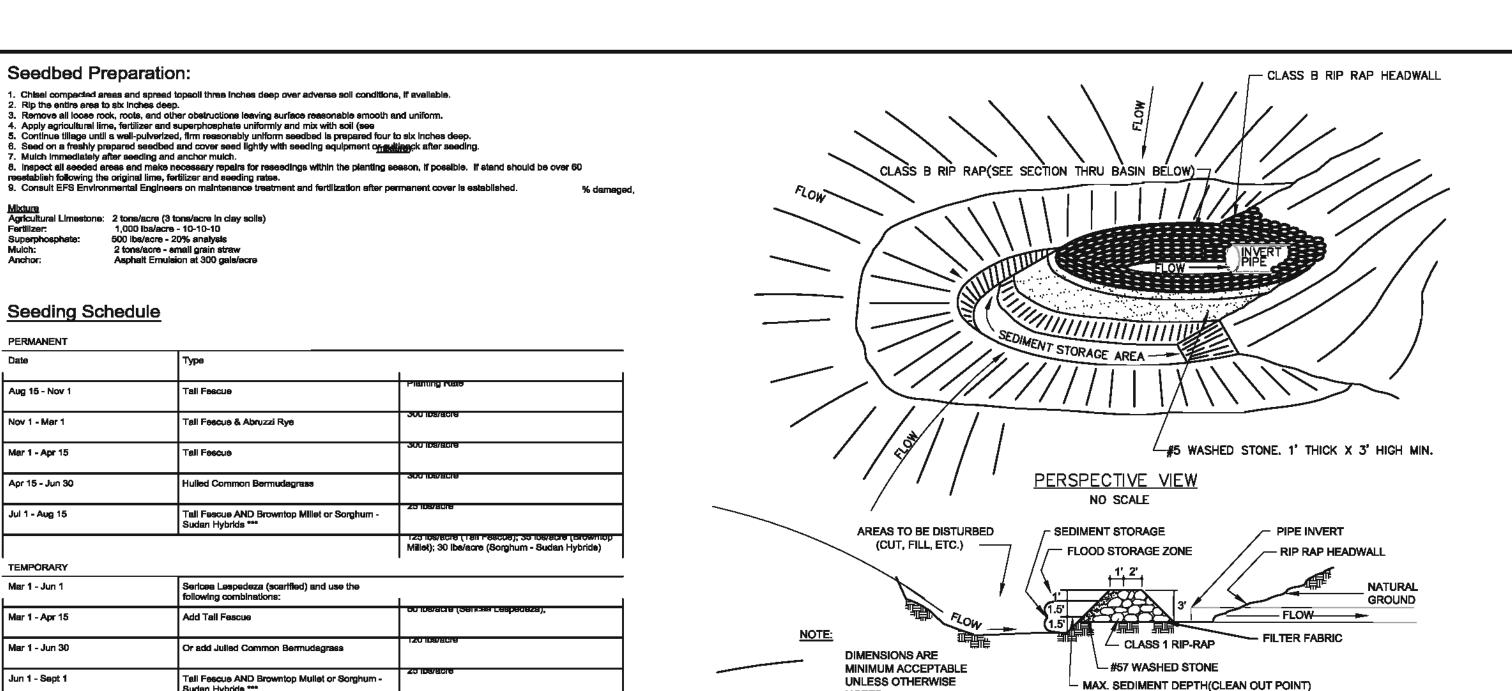
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APRIL 17, 2014

300-12 Phase 3A - Sewer Details.dwg Sheet No:







SECTION THRU BASIN, FILTER AND CULVERT PIPE NO SCALE

MAINTENANCE:

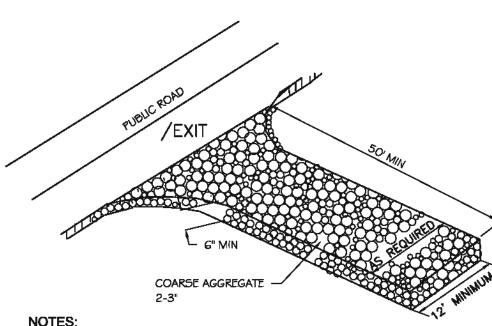
NOTED.

INSPECT ROCK PIPE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.

CHECK THE STRUCTURE FOR DAMAGE. ANY RIPRAP DISPLACED FROM THE STONE HORSESHOE MUST BE REPLACED IMMEDIATELY.

AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND PROVIDE PERMANENT GROUNDCOVER (SURFACE STABILIZATION).

GRAVEL & RIPRAP HORSESHOE INLET BASIN



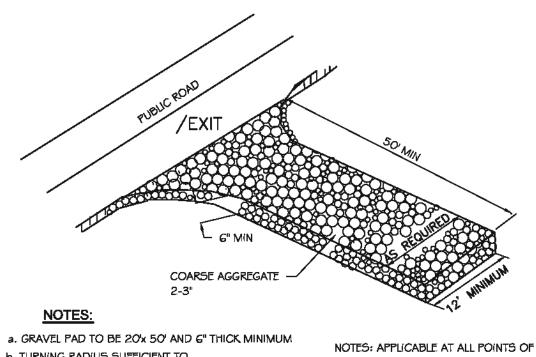
- b. Turning radius sufficient to
- ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED. c. Entrance(s) should be located to
- PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
- d. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE SILL BE NECESSARY; KEEP SOME HANDY. c. ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP

INGRESS & EGRESS UNTIL SITE IS STABILIZED, FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.

MIN. 10 GA. LINE WIRES

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC

TEMPORARY CONSTRUCTION ENTRANCE



Construction 1. Uniformly grade a shallow depression approaching the inle Specifications
2. Drive 5-foot steel posts 2 feet into the ground surrounding the inlet.

Space posts evenly around the perimeter of the inlet, a maximum of 4 feet

3. Surround the posts with wire mesh hardware cloth. Secure the wire

4. Place clean gravel (NC DOT#5 or #57 stone) on a 2:1 alope with a height of 16 inches around the wire, and smooth to an even grade

of the wire mesh under the gravel for anchoring is secommanded

Once the contributing drainage area has been stabilized, remove accumulated addiment, and establish final grading elevations.

6. Compact the crea property and stabilized it with groundcover.

Maintenance Inspect inlets at least weekly and after each significant (½ inch or greater) rainfull event. Clear the mesh wire of any debris or other objects to provide adequate flow für subsequent rains. Take care not to damage or undercut the wire mesh during sediment removal. Replace stone as needed.

References Inlet Protection
6.52, Block and Gravel Inlet Protection

6.54, Rock Doughout Inlet Protection

North Carolina Department of Transportation Standard Specifications for Roads and Structures

TEMPORARY INLET PROTECTION

mesh to the steel posts at the top, middle, and buttom. Placing a 2-foot flap

-USE SILT FENCE ONLY WHEN DRAINAGE AREA

-END OF SILT FENCE NEEDS TO BE TURNED UPHILL.

* FOR REPAIR OF SILT

FENCE FAILURES, USE

No. 57 WASHED STONE.

FENCE IS PROTECTING

CATCH BASIN.

FOR ANCHOR WHEN SILT

MAINTENANCE:

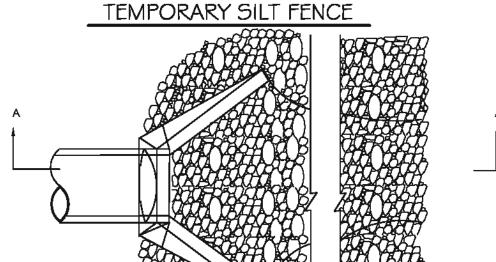
REQUIRED REPAIRS IMMEDIATELY.

INEFFECTIVE, REPLACE IT PROMPTLY.

UNDERMINING THE FENCE DURING CLEANOUT.

DOES NOT EXCEED 1/4 ACRE AND NEVER IN

AREAS OF CONCENTRATED FLOW



SIDE VIEW

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY

SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR DECOMPOSE OR BECOME

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

REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE

AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN

8' MAX.

VARIABLE AS DIRECTED BY THE ENGINEER

INSTALLED TO SECON

FRONT VIEW

STEEL POST

WOVEN WIRE FABRIC

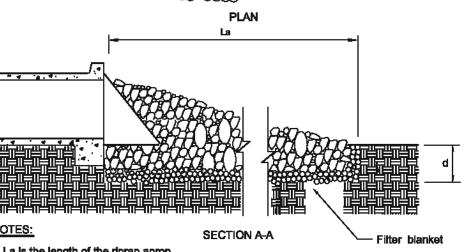
6" MIN. COVER

ANCHOR SKIRT AS

DIRECTED BY ENGINEER*

OVER SKIRT *

SILT FENCE GEOTEXTILE FABRIC



SEE PLAN FOR SIZES

1. La is the length of the riprap apron. 2. d = 1.5 times the maximum stone diameter but

not less than 6" 3. In well-defined extend the apron up the channel banks to an elevation of 6" above the maximum tailwater depth or to the top of the bank which ever is less. 4. A filter blanket or filter fabric should be

Installed between the riprap and soil foundation

OUTLET PROTECTION FOR DEFINED CHANNEL

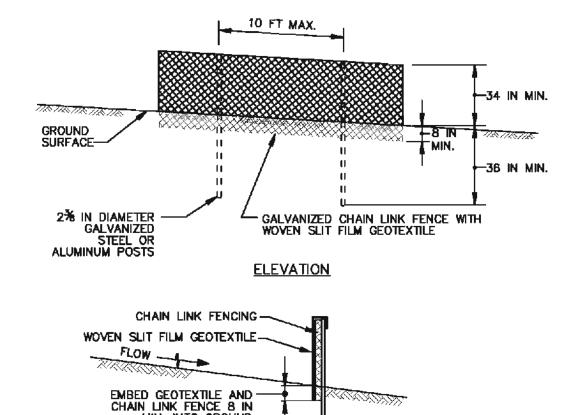


THE NC ONE CALL CENTER

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CROSS SECTION CONSTRUCTION SPECIFICATIONS

Sericea Lespedeza (unhulled - unecarified)

Consult EFS Environmental Engineer for additional information concerning other alternatives for vegetation of denuded areas. The above vegeta

*** TEMPORARY: Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12" in height

And Abruzzi Rye

rates are those which do well under location conditions; other seeding rate combinations are possible

Mullet); 30 lbe/acre (Sorghum - Sudan Hybrids)

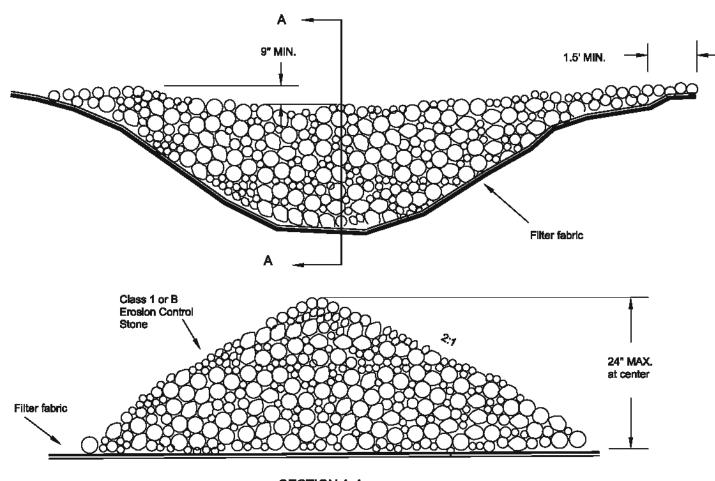
TEMPORARY

Nov 1 - Mar 1

before mowing, otherwise fescue may be shaded out.

- 1. INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES
- 2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- 3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- 4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- 5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- 6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- 7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

SUPER SILT FENCE



SECTION A-A Stone should be placed over the channel banks to keep water from cutting around the dam.

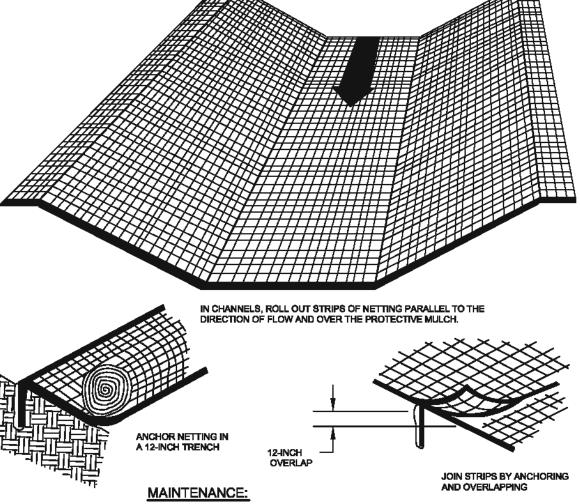
INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.

MAINTENANCE:

ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL.

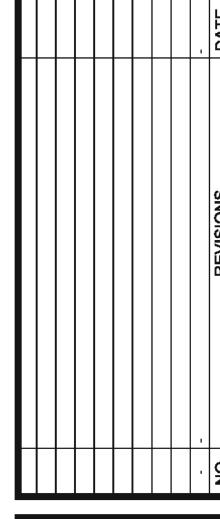
REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

STONE CHECK DAM



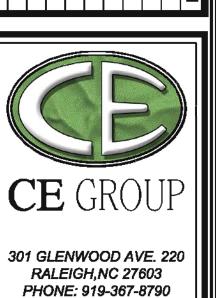
AFTER GRASS IS ESTABLISHED, PERIODICALLY CHECK THE CHANNEL; CHECK IT AFTER EVERY HEAVY RAINFALL EVENT. IMMEDIATELY MAKE REPAIRS. IT IS PARTICULARLY IMPORTANT TO CHECK THE CHANNEL OUTLET AND ALL ROAD CROSSINGS FOR BANK STABILITY AND EVIDENCE OF PIPING OR SCOUR HOLES. REMOVE ALL SIGNIFICANT SEDIMENT ACCUMULATION TO MAINTAIN THE DESIGN CARRYING CAPACITY, KEEP THE GRASS IN A HEALTHY, VIGOROUS CONDITION AT ALL TIMES, SINCE IT IS THE PRIMARY EROSION PROTECTION FOR THE CHANNEL.

TEMPORARY CHANNEL LINING



MIN. 12-1/2 GA.

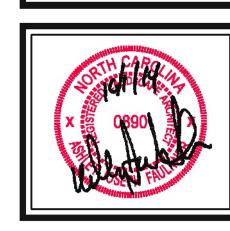
INTERMEDIATE



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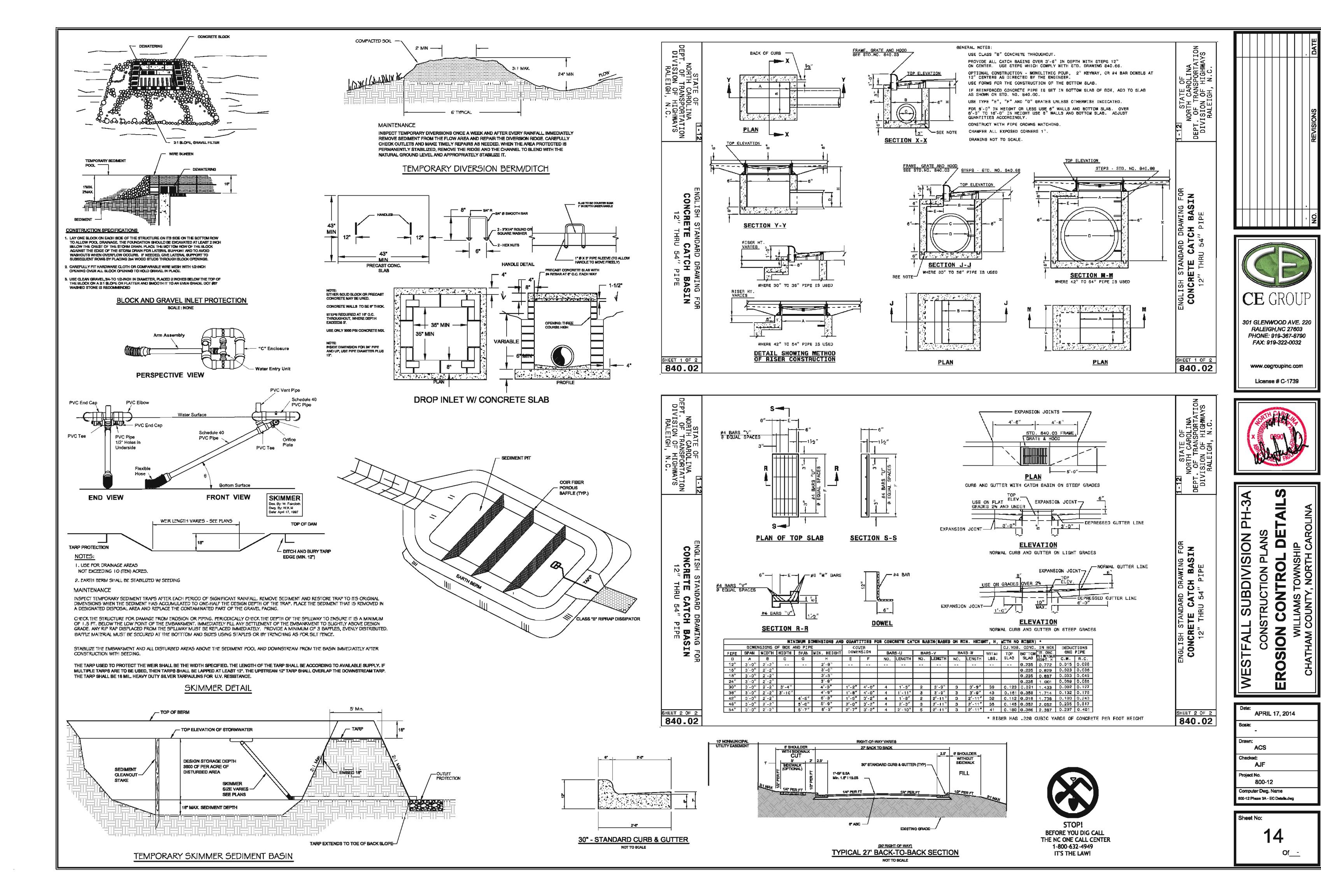
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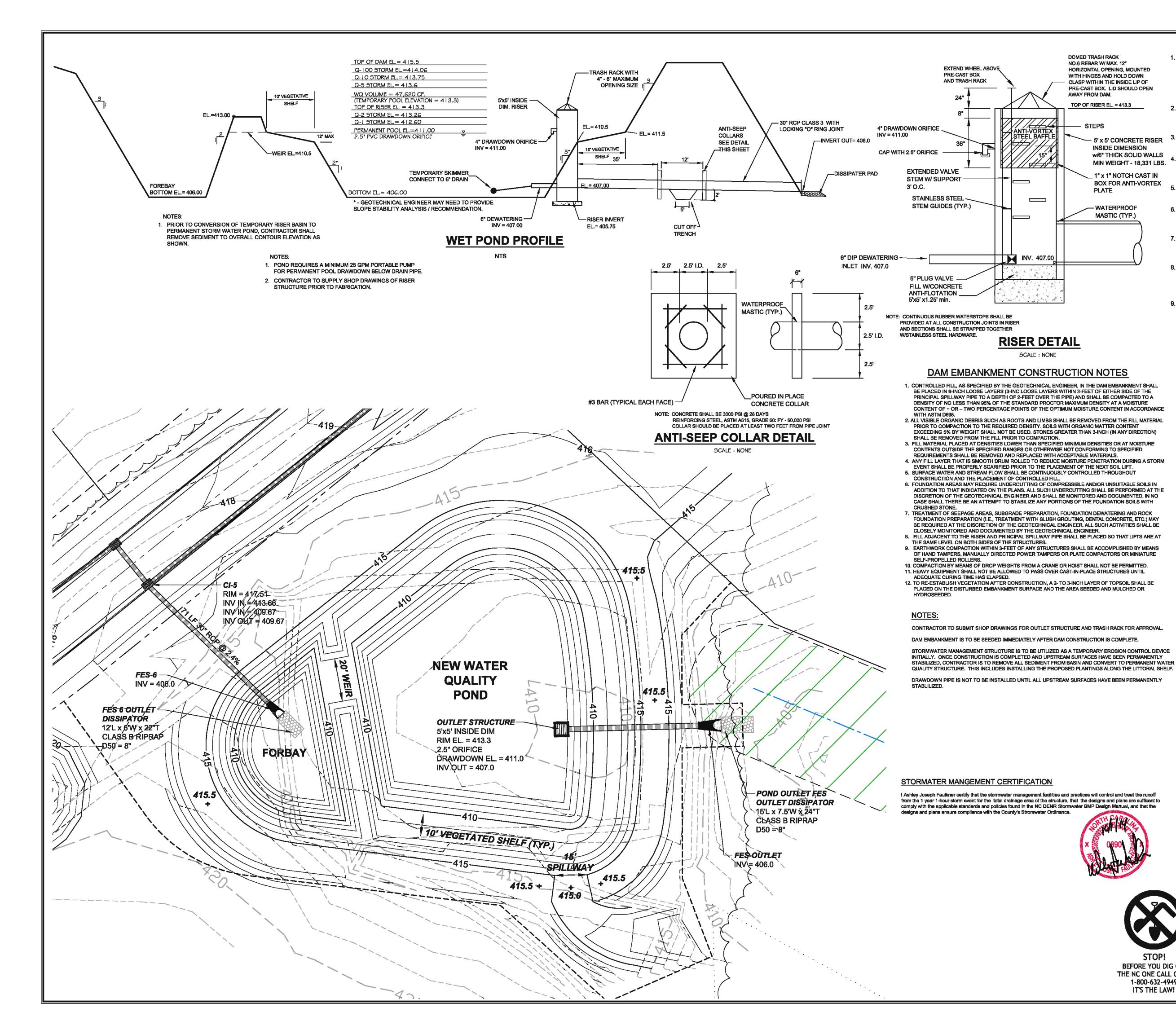


APRIL 17, 2014 Project No. 800-12 Computer Dwg. Name

00-12 Phase 3A - EC Details.dwg

Sheet No:





GENERAL NOTES

DOMED TRASH RACK

AWAY FROM DAM.

NO.6 REBAR W/ MAX. 12"

HORIZONTAL OPENING, MOUNTED

WITH HINGES AND HOLD DOWN

TOP OF RISER EL. = 413.3

PLATE

- WATERPROOF

MASTIC (TYP.)

CLASP WITHIN THE INSIDE LIP OF

PRE-CAST BOX. LID SHOULD OPEN

INSIDE DIMENSION

1" x 1" NOTCH CAST IN

BOX FOR ANTI-VORTEX

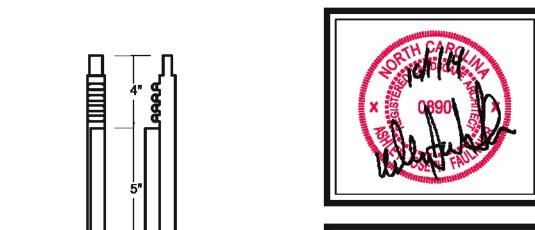
- EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-632-4949. THE CONTRACTOR SHALL CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
- 5' x 5' CONCRETE RISER 3. ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
- w/6" THICK SOLID WALLS ALL WATER MAINS SHALL HAVE A MINIMUM OF 3.0' OF COVER AS MIN WEIGHT - 18,331 LBS. MEASURED FROM FINISH GRADE AT THE LOCATION OF WHERE
 - ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO AQUA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
 - 6. THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA PER FEMA FIRM PANEL 9784 MAP NUMBER 3710978400J, DATED FEBRUARY 2
 - AQUA PERSONNEL SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTION IS TO BEGIN, ANY TESTING IS SCHEDULED, OR BEFORE ANY PIPE IS COVERED.
 - EXISTING OVERALL TOPOPGRAPHIC INFORMATION TAKEN FROM NCDOT LIDAR FOR CHATHAM COUNTY. ROADWAY CORRIDOR TOPOGRAPHIC INFORMATION TAKEN FROM SURVEYED INFORMATION BY CE GROUP.
 - 9. ALL STREETS ARE PRIVATE



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SIDE ELEVATION PLAN SLIP RESISTANT CLEATS ELEVATION

00000000000000

CORROSION RESISTANT MATERIAL (RUBBER, PLASTIC)

STANDARD SLIP RESISTANT **MANHOLE STEP DETAIL**

SCALE : NONE

WATER COURSE INFORMATION

HERNDON CREEK WS-IV, NSW PROTECTED AREA WATERBODY STREAM INDEX - 16-41-1-(0.5)

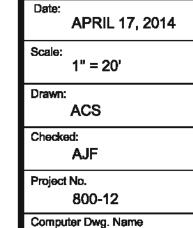
LAT = 35° 49' 16.41" N LONG= 79°03' 32.67" W



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SCALE: 1" = 20'



Sheet No:

300-12 Phase 3A - Storm Pond Plan & De

PLANT LIST

SYM.	QUAN.	BOTANICAL NAME	COMMON NAME	HT.	ROOT	REMARKS		
	WETLAND PLANTINGS							
SA	43	Hibiscus coccineus 'Alba'	White Rose Mallow	-	4" cont.	3' O.C. Shallow Land		
CF	37	Lobella cardinalis	Cardinal Flower	-	4" cont.	3' O.C. Shallow Land		
NP	43	Saccharum baldwinii	Narrow Plumegrass	-	4" cont.	3' O.C. Shallow Land		
DP	73	Sagittaria latifolia	Duck Potato	-	4" cont.	3' O.C. Shallow Water		
LT	74	Saururus cernuus	Lizard Tail	-	4" cont.	3' O.C. Shallow Water		
PW	81	Pontederia cordata	Dickerelwood		4" cont	3' O.C. Shallow Water		

PLANTING NOTES:

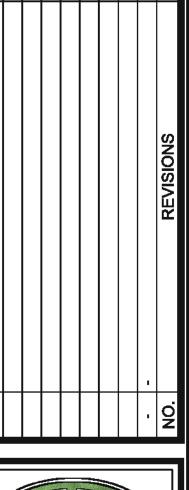
LANDSCAPE CONTRACTOR SHALL PROVIDE PLANT MATERIAL FROM LOCAL SOURCE TO ENSURE SURVIVABILITY. CONTRACTOR TO PROVIDE SOURCE OF PLANT MATERIAL AND LOCATION FOR APPROVAL PRIOR TO INSTALLATION OF MATERIAL.

LOCAL WETLAND NURSERY
MELLOW MARSH FARM NURSERY - SILER CITY, NC

A MINIMUM TWO-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR PLANT SURVIVAL AND REPLACEMENT. AT THE END OF THE FIRST YEAR AND AGAIN AT THE END OF THE 2ND YEAR ALL PLANTS THAT DO NOT SURVIVE MUST BE REPLACED.

GENERAL NOTES

- 1. EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 2. THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-632-4949. THE CONTRACTOR SHALL CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
- 3. ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
- 4. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3.0' OF COVER AS MEASURED FROM FINISH GRADE AT THE LOCATION OF WHERE INSTALLED.
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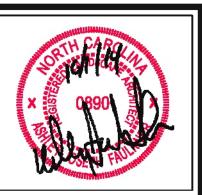




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APRIL 17, 2014 1" = 20'

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800-12 Computer Dwg. Name 800-12 Phase 3A - 14 Storm Pond Plan &

Sheet No:

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