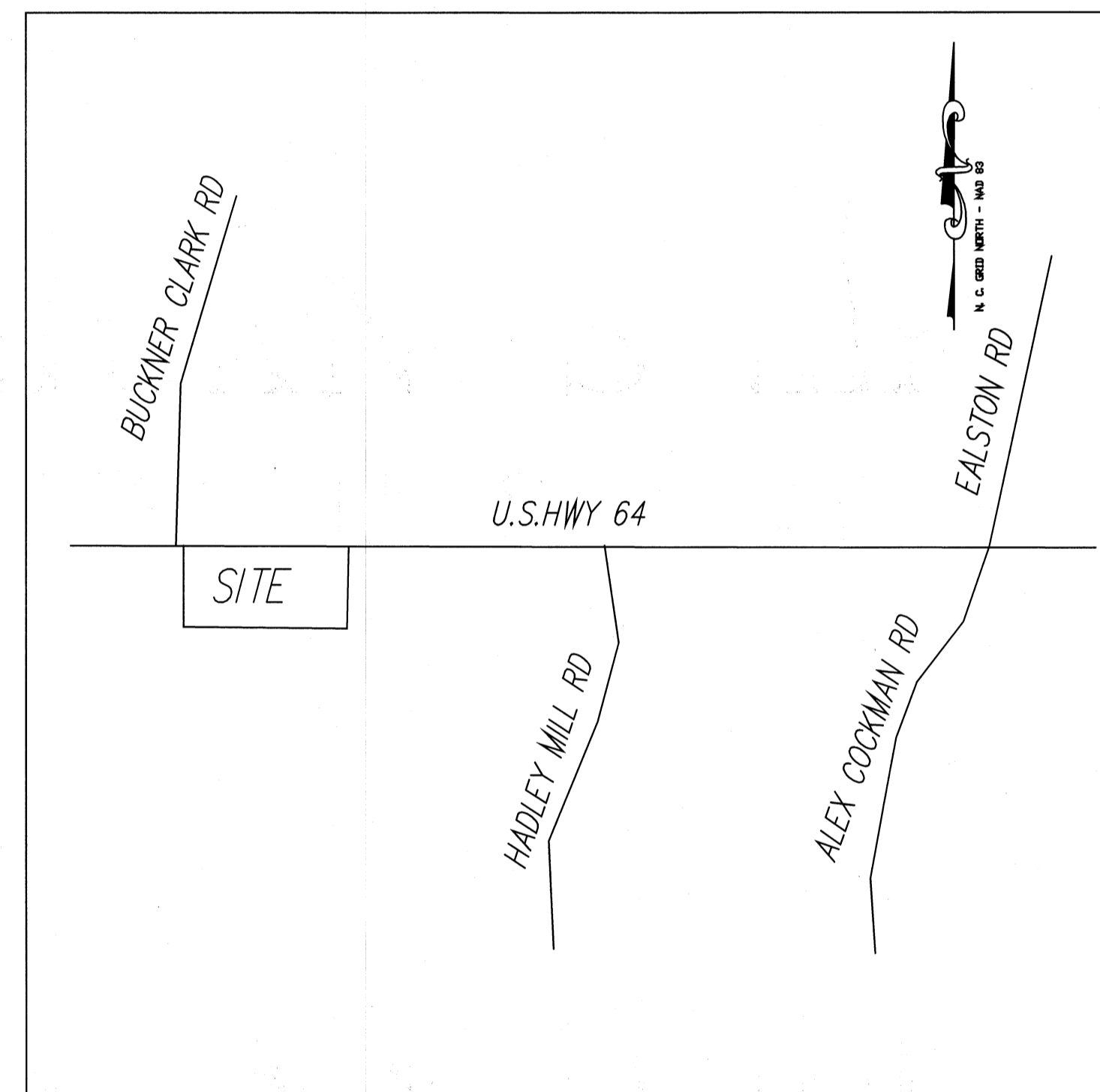


# SITE PLANS FOR AMERICAN SELF STORAGE

6193 U. S. HWY 64 WEST  
PITTSBORO, N.C.



VICINITY MAP  
NOT TO SCALE

## INDEX OF SHEETS

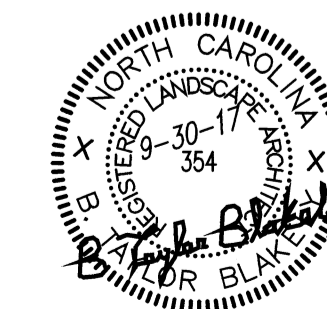
EXISTING CONDITIONS	EX.0
SITE STAKING PLAN	C1.0
OVERALL SITE PLAN	C1.1
GRADING & DRAINAGE PLAN	C2.0
BIORETENTION DETAILS PLAN	C2.1
LANDSCAPE PLAN	C3.0
EROSION CONTROL PLAN PHASE 1	C5.0
EROSION CONTROL PLAN PHASE 2	C5.1
EROSION DETAILS PLAN	C5.2
DRAINAGE AREA WORKSHEETS	

I hereby certify that the design of all stormwater management facilities and practices meets the submittal requirements for complete applications, that the designs and plans are sufficient to comply with applicable standards and policies and that the designs and plans ensure compliance with the requirements of the Chatham County Stormwater Ordinance

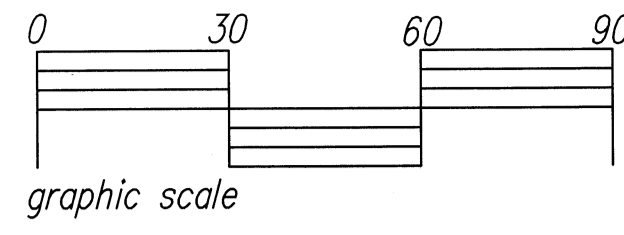
*Robert Blakely*  
signature

March 23, 2018  
date

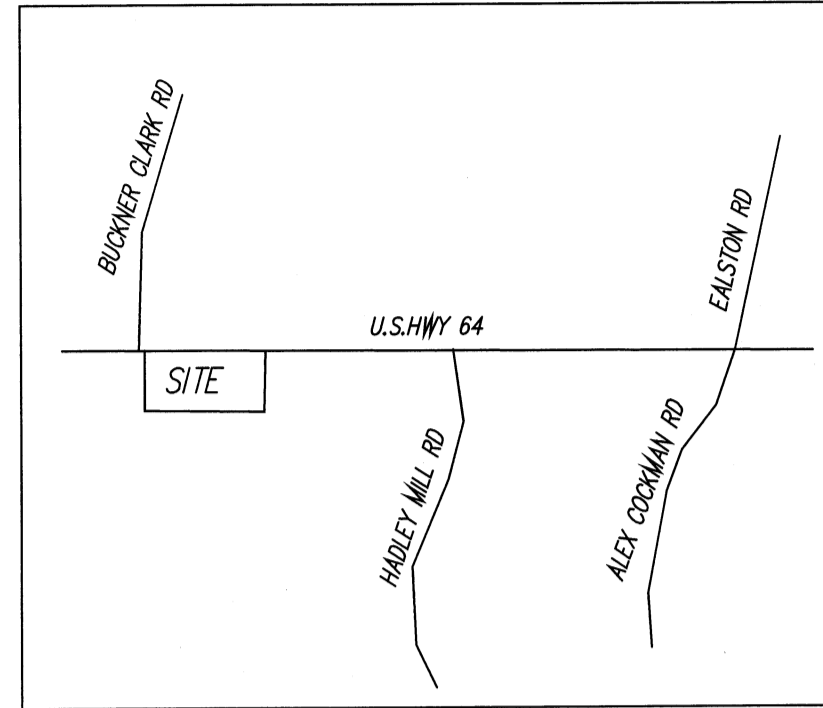
PREPARED BY



BLAKELY DESIGN GROUP  
700 EXPOSITION PLACE, SUITE 105  
RALEIGH, N. C. 27615  
(919) 870-1868 FAX 870-0752



S88°29'02"E  
345.01

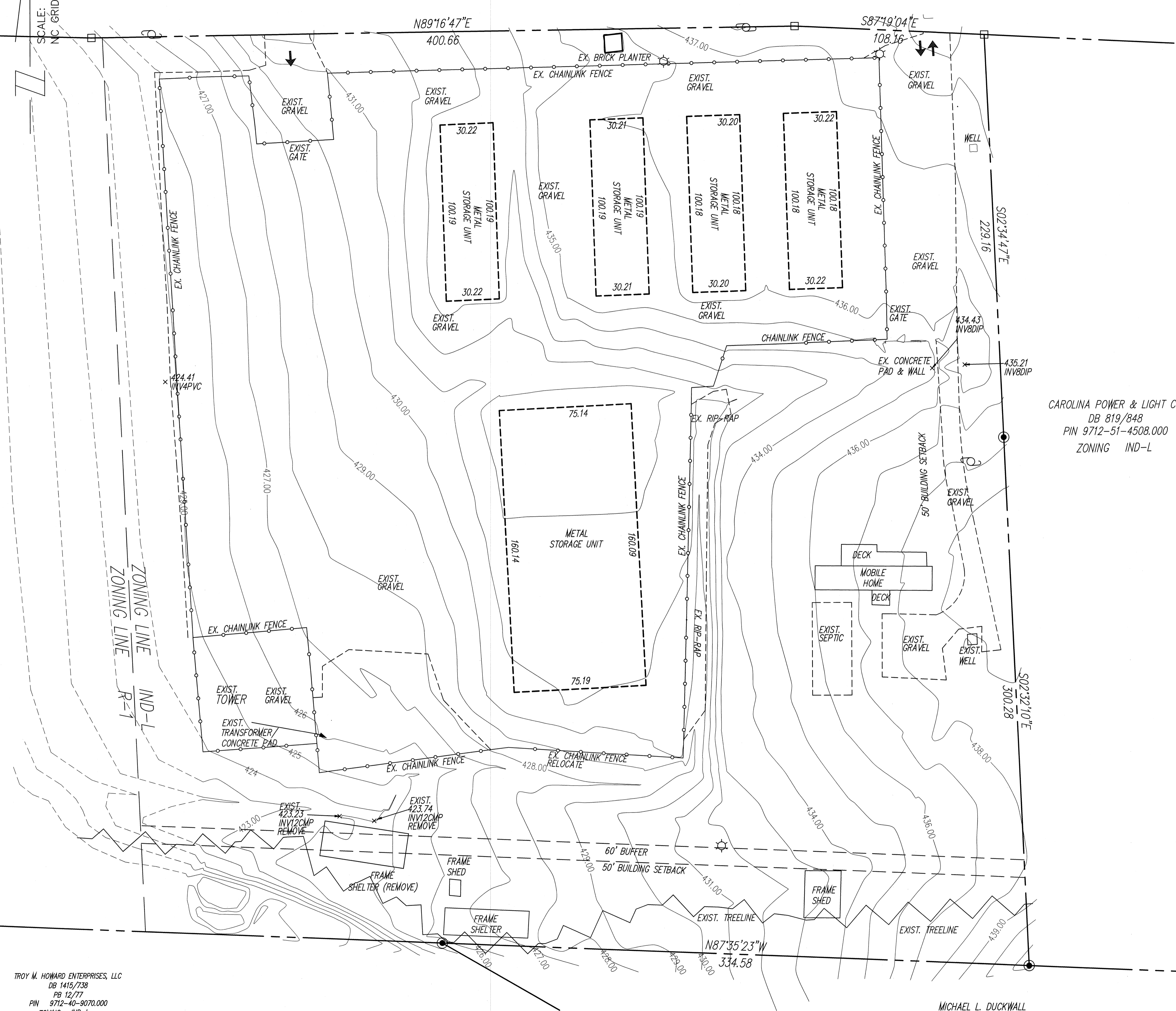


VICINITY MAP

TOTAL AREA  
451,440 sq. ft.  
10.36 acres

SCALE: 1" = 30'  
NC GRID NAD '83/01

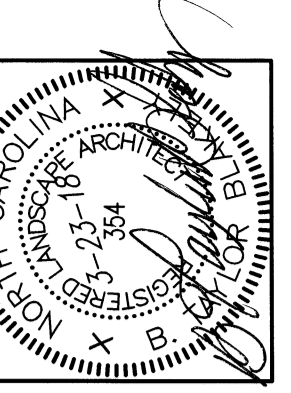
U.S. HIGHWAY 64  
(EXISTING VARIABLE WIDTH PUBLIC R/W)



CAROLINA POWER & LIGHT CO  
DB 819/848  
PIN 9712-51-4508.000  
ZONING IND-L

TROY M. HOWARD ENTERPRISES, LLC  
DB 1415/738  
PB 12/77  
PIN 9712-40-9070.000  
ZONING IND-L

MICHAEL L. DUCKWALL  
DB 517/247  
PIN 9712-51-0185.000  
ZONING IND-L



**BLAKELY DESIGN GROUP**  
Landscape Architecture Site Planning

700 Expedition Place, Suite 105, Raleigh, North Carolina 27615  
Telephone (919) 870-1888 Fax (919) 870-0782  
E-Mail: info@blakelydesign.com

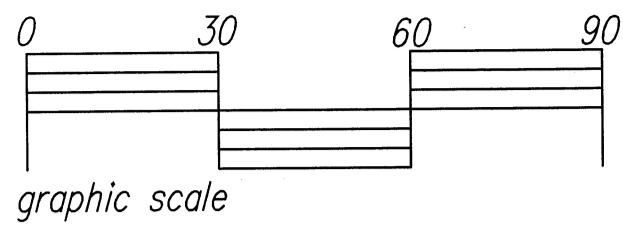
EXISTING CONDITIONS PLAN

**AMERICAN SELF STORAGE**

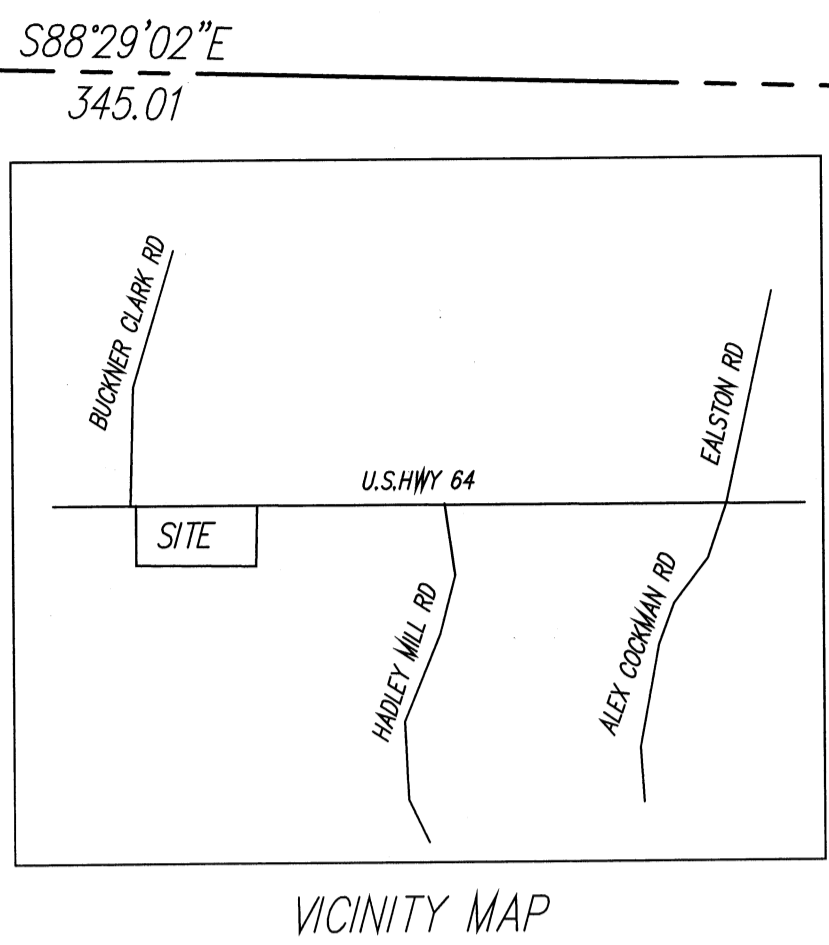
6193 U.S.64, PITTSBORO, N.C.

DATE	SEPT 30,17
SCALE	1"=30'
DRAWN	BTB
JOB NO.	
REVISIONS	

SHEET  
EX.0



SCALE: 1" = 30'  
NAD 83/01



### U.S. HIGHWAY 64 (EXISTING VARIABLE WIDTH PUBLIC R/W)

SITE DATA	
TOTAL LOT SIZE	451,440 S.F. 10.36 ACRES
EXISTING USE	IND-L & R-1 SELF STORAGE
PROPOSED USE	SELF STORAGE
EXISTING BUILDING SIZE (5 existing buildings)	24,000 S.F.
PROPOSED ADDITIONAL BUILDING SIZE (6 new buildings)	59,375 S.F.
TOTAL BUILDING SIZE	83,375 S.F.
PARKING REQUIRED (1 space per 3 employees - 0 employees)	1 SPACE
PARKING PROPOSED (NO EMPLOYEES AT THIS SITE)	1 SPACE
EXISTING IMPERVIOUS AREA	148,104 S.F. (3.40 AC.) 32.8 %
PROPOSED NEW IMPERVIOUS AREA	46,400 S.F. (1.07 AC.) 10.3 %
TOTAL IMPERVIOUS AREA	194,504 S.F. (4.46 AC.) 43.1 %
DENUDED AREA	4.30 AC.
CHATHAM COUNTY AKPAR	60115
CHATHAM COUNTY P.I.N.	9712-41-5557.000
DEVELOPER	AMERICAN SELF STORAGE, INC. 805 H AND R DRIVE KNIGHTDALE, N. C. 27545 (919) 444-9014

- #### NOTES
1. BOUNDARY AND TOPOGRAPHIC AS-BUILT INFORMATION TAKEN FROM MAP PREPARED BY STEVE RUCKETT LAND SURVEYORS AND DATED FEBRUARY 2006.
  2. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT CHATHAM COUNTY STANDARDS, SPECIFICATIONS AND DETAILS.
  3. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR CONSTRUCTION SHOWN ON THESE PLANS.
  4. ALL DIMENSIONS AND STAKING POINT LOCATIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
  5. ANY WORK SHOWN IN THESE PLANS THAT IS FOUND TO BE IN CONFLICT WITH THE CHATHAM COUNTY ZONING AND SETBACK REQUIREMENTS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT FOR ADJUSTMENT AND SETBACK REQUIREMENTS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT FOR ADJUSTMENT.
  6. LOCATIONS FOR EXISTING UTILITIES SHOWN IN THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAME.
  7. THE PROTECTION OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS PER THE NORTH CAROLINA STATE BUILDING CODE, AS SHOWN IN THE PLANS WITH TRAFFIC MARKING PAINT ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. USE WHITE PAINT.
  8. CONTRACTOR SHALL DELINEATE PARKING SPACES, HANDICAP SPACES AND NECESSARY RAMP AS PER THE NORTH CAROLINA STATE BUILDING CODE, AS SHOWN IN THE PLANS WITH TRAFFIC MARKING PAINT ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. USE WHITE PAINT.
  9. CALL NORTH CAROLINA ONE CALL CENTER @ 1-800-655-4949 BEFORE DIGGING.
  10. DISTURBED AREA IS 430 ACRES.
  11. THIS SITE IS NOT WITHIN A 100 YEAR FLOODWAY FRINGE AREA.
  12. HOURS OF OPERATION ARE: MONDAY - FRIDAY 7:00 am - 8:00pm & SATURDAY 7:00 am - 8:00 pm
  13. NUMBER OF EMPLOYEES - 0

TOTAL AREA  
451,440 sq. ft.  
10.36 acres

PROVIDE RIP RAP DISSIPATOR  
6" WIDE x 10" x 22" DEEP  
USE 10" CLASS "B" STONE  
WITH FABRIC UNDERLINER  
Q25 = 55.90 c.f.s.  
V25 = 8.82 f./s.

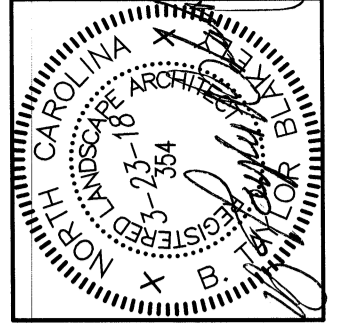
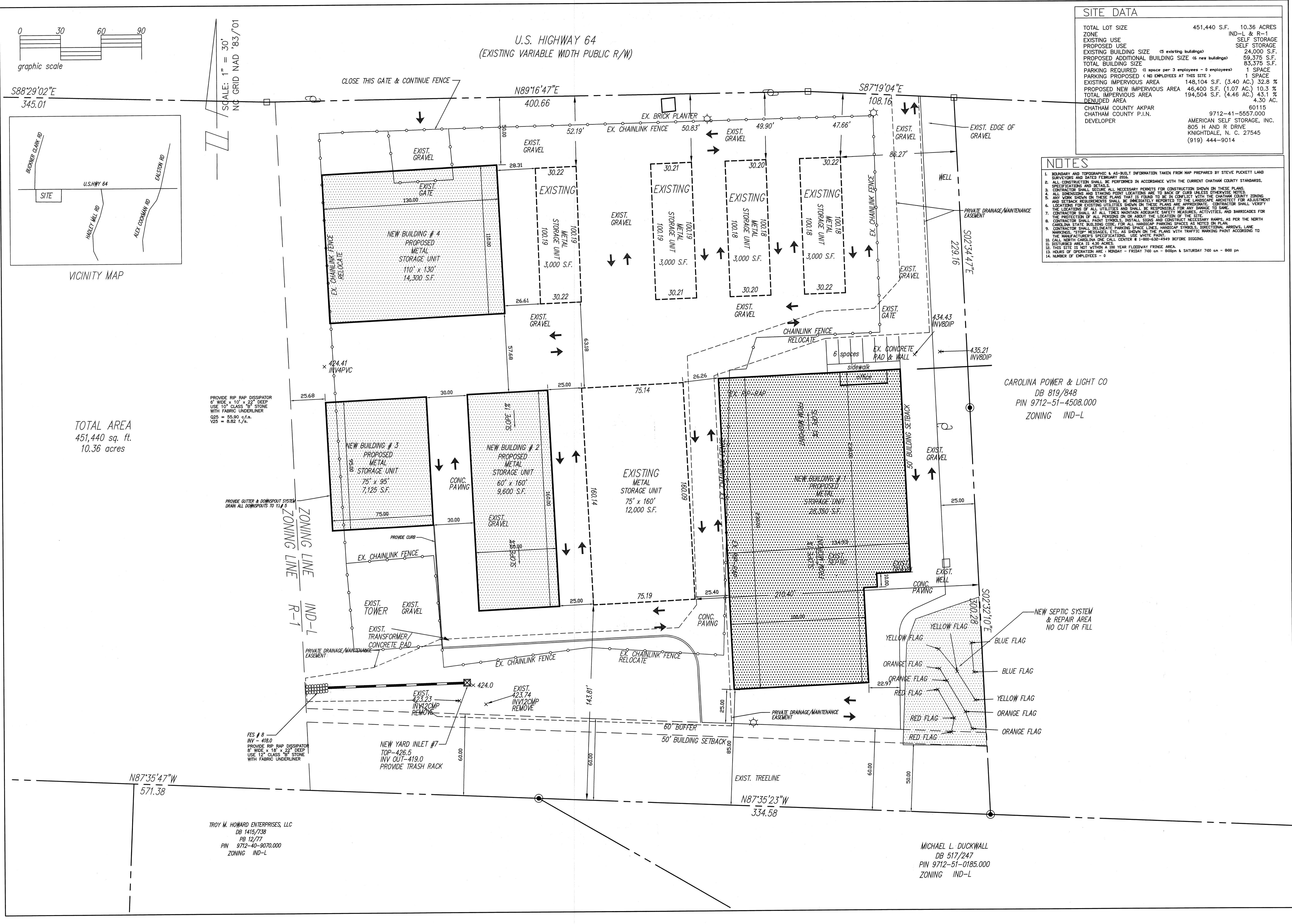
PROVIDE OUTER & DOWNSPOUT SYSTEM  
DRAIN ALL DOWNSPOUTS TO YLF #5

FES # 8  
INV - 418.0  
PROVIDE RIP RAP DISSIPATOR  
8" WIDE x 18" x 22" DEEP  
USE 12" CLASS "B" STONE  
WITH FABRIC UNDERLINER

TROY M. HOWARD ENTERPRISES, LLC  
DB 1415/738  
PB 12/77  
PIN 9712-40-9070.000  
ZONING IND-L

MICHAEL L. DUCKWALL  
DB 517/247  
PIN 9712-51-0185.000  
ZONING IND-L

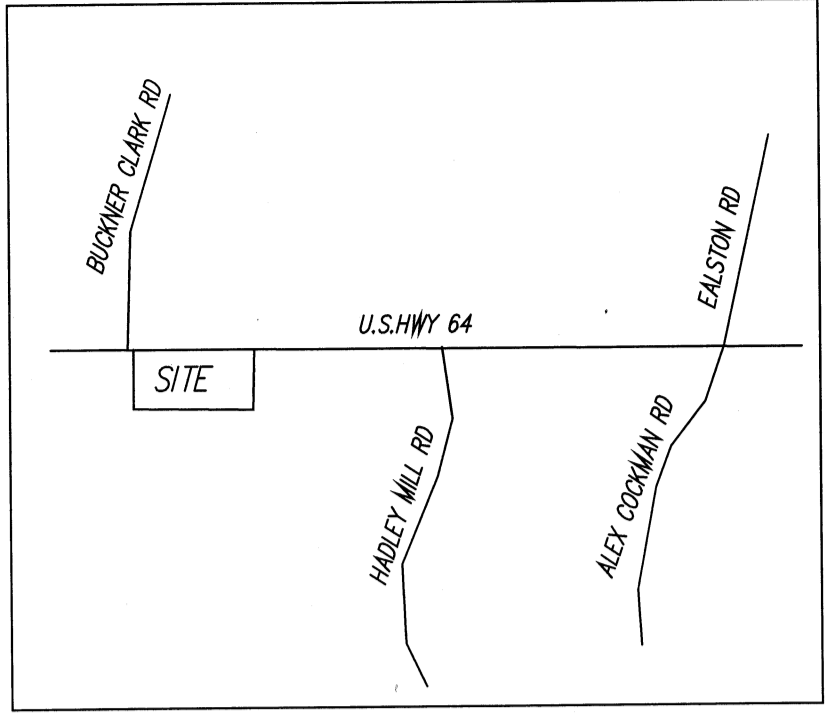
CAROLINA POWER & LIGHT CO  
DB 819/848  
PIN 9712-51-4508.000  
ZONING IND-L



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taylor@blakelydesign.net  
E-Mail

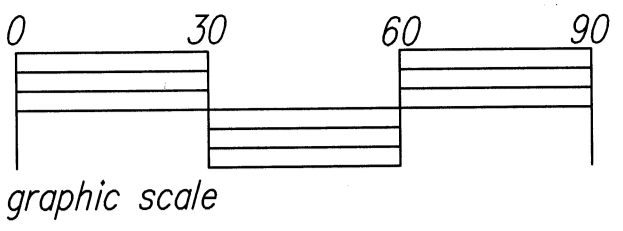
SITE PLAN  
**AMERICAN SELF STORAGE**  
6193 U.S.64, PITTSBORO, N.C.

DATE	Sept 30, 17
SCALE	1"=30'
DRAWN	BTB
JOB NO.	
REVISIONS	
1-2-18 878 REVISED, Comb. Map 1	
3-23-18 878 REVISED PER COUNTY	
SHEET	C1.0



VICINITY MAP

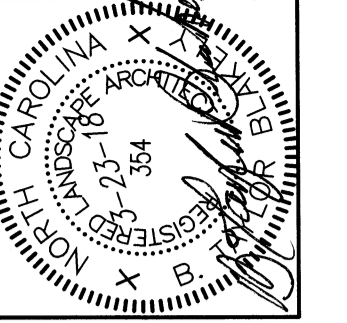
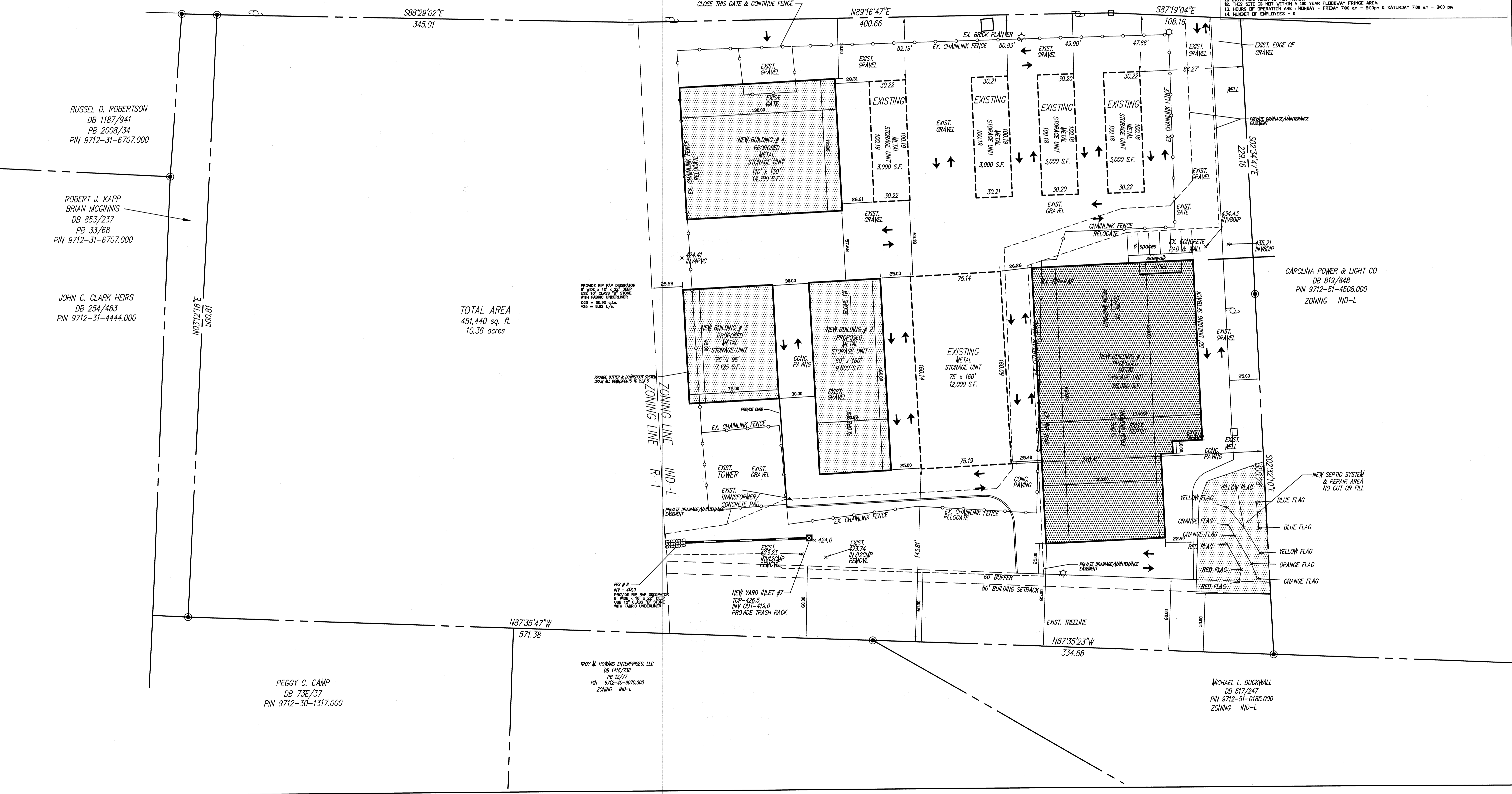
SCALE: 1" = 30'  
NC GRID NAD '83/01



SITE DATA	
TOTAL LOT SIZE	451,440 S.F. 10.36 ACRES
EXISTING ZONE	IND-L & R-1
EXISTING USE	SELF STORAGE
PROPOSED USE	SELF STORAGE
EXISTING BUILDING SIZE (5 existing buildings)	24,000 S.F.
PROPOSED ADDITIONAL BUILDING SIZE (6 new buildings)	59,375 S.F.
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DENUDED AREA	4.30 AC.
CHATHAM COUNTY AKP#	60115
CHATHAM COUNTY P.I.N.	9712-41-5557.000
DEVELOPER	AMERICAN SELF STORAGE, INC. 805 H AND R DRIVE KNIGHTDALE, N. C. 27545 (919) 444-9014

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  - CONTRACTOR SHALL PLACE SIGNS, INSTALL SIGNS AND CONSTRUCT NECESSARY RAMPS, AS PER THE NORTH CAROLINA STATE BUILDING CODE FOR ALL HANDICAP PARKING SPACES AS NOTED ON PLAN.
  - CONTRACTOR SHALL BELINEATE PARKING SPACE LINES, HANDICAP SPACES, DIRECTIONAL ARROWS, LANE MARKINGS, "STOP" MESSAGES, ETC., AS SHOWN ON THE PLANS WITH TRAFFIC MARKING PAINT ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. USE WHITE PAINT.
  - CALL NORTH CAROLINA ONE CALL CENTER @ 1-800-632-4949 BEFORE DIGGING.
  - DISTURBED AREA IS 4.30 ACRES.
  - THIS SITE IS NOT WITHIN A 100 YEAR FLOODWAY FRINGE AREA.
  - HOURS OF OPERATION ARE: MONDAY - FRIDAY 7:00 am - 8:00pm & SATURDAY 7:00 am - 8:00 pm
  - NUMBER OF EMPLOYEES = 0

U.S. HIGHWAY 64  
(EXISTING VARIABLE WIDTH PUBLIC R/W)



**BLAKELY DESIGN GROUP**  
Landscape Architecture Site Planning  
700 Expedition Place, Suite 100, Raleigh, North Carolina 27615  
Telephone (919) 870-1988 Fax (919) 870-0752  
E-Mail btopol@blakelydesign.com

**OVERALL SITE PLAN (TOTAL PROPERTY)**  
**AMERICAN SELF STORAGE**  
6193 U.S.64, PITTSBORO, N.C.

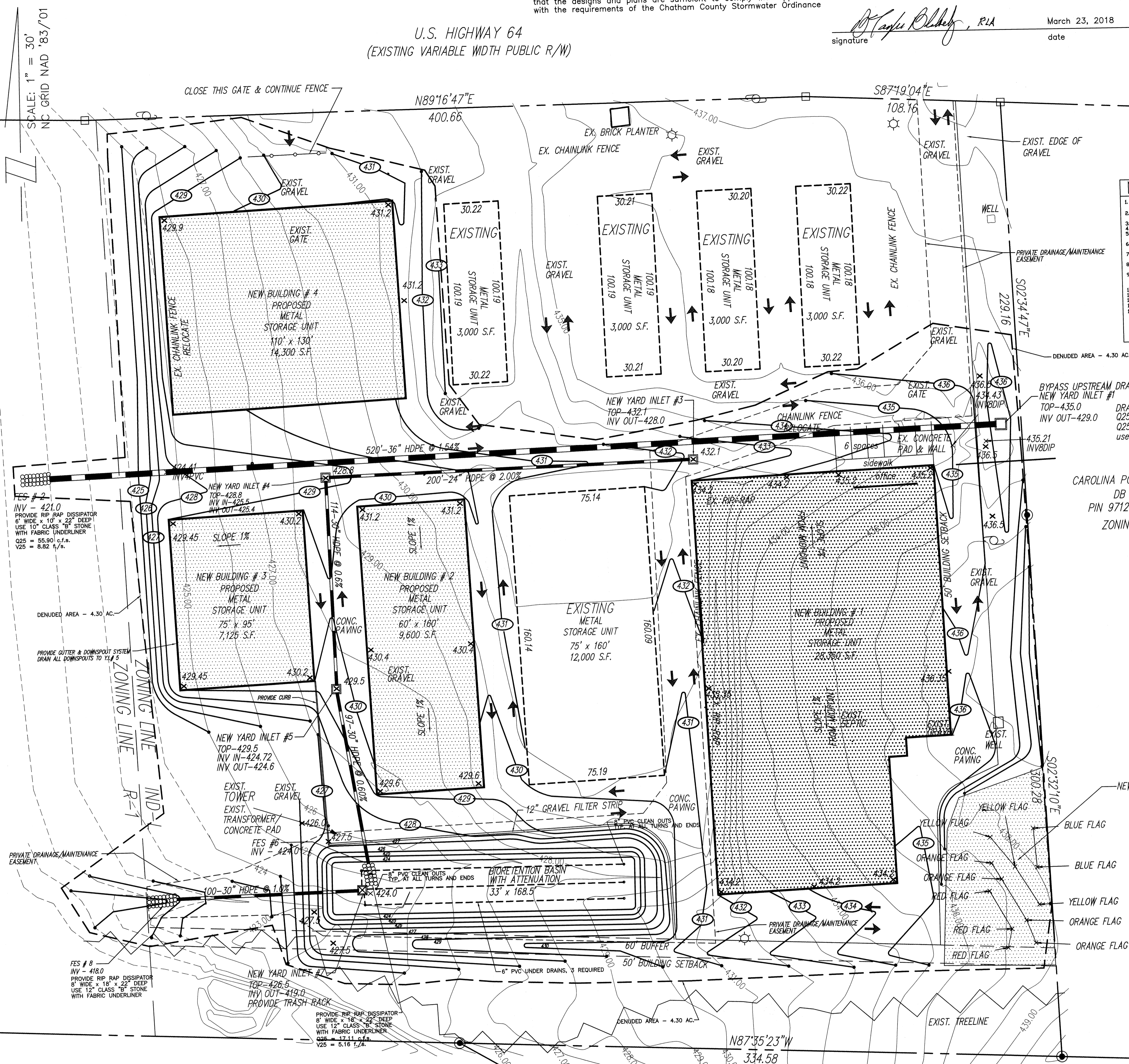
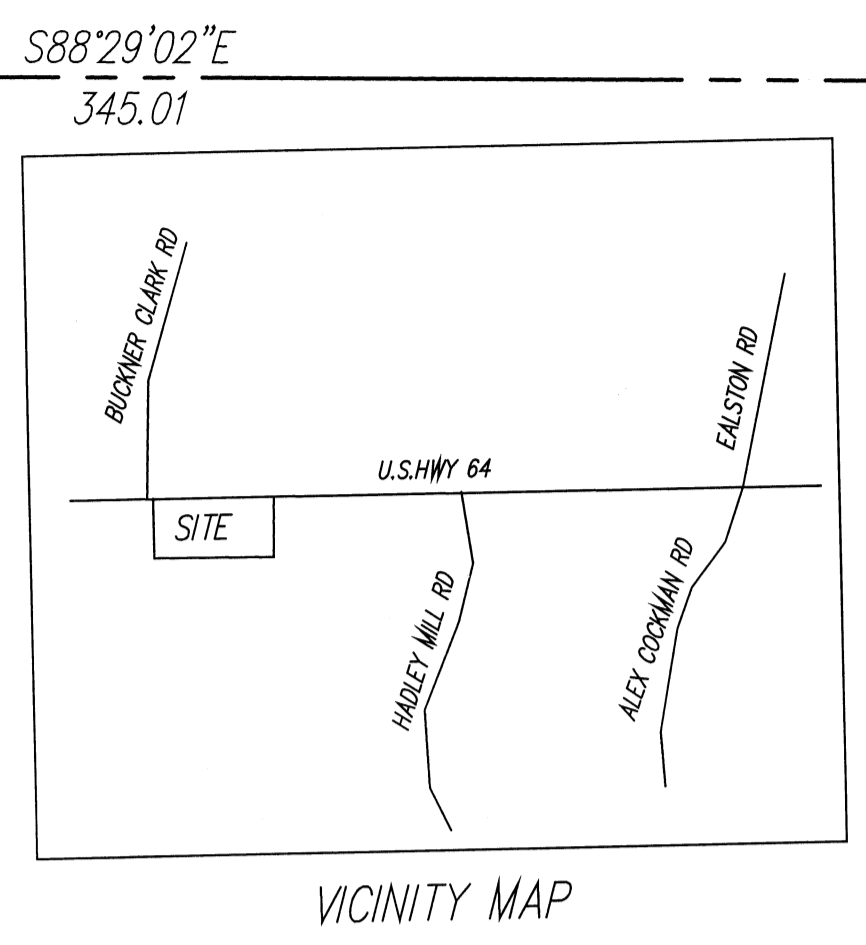
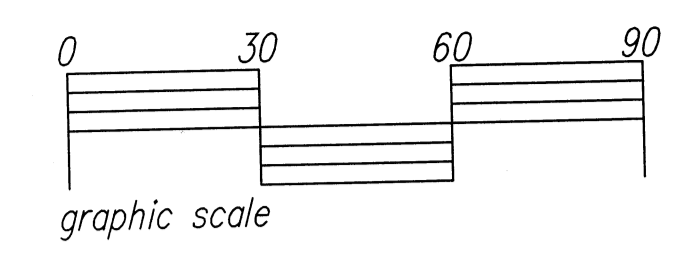
DATE	Sept 30, 17
SCALE	1"=40'
DRAWN	BTB
JOB NO.	
REVISIONS	1-18 878 REVISED, Comb. 846g 1 2-23-18 878 REVISED PER COUNTY
SHEET	C1.1

I hereby certify that the design of all stormwater management facilities and practices meets the submittal requirements for complete applications, that the designs and plans are sufficient to comply with applicable standards and policies and that the designs and plans ensure compliance with the requirements of the Chatham County Stormwater Ordinance

*Michael Blakely, P.E.* March 23, 2018  
signature date

SITE DATA	
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DENUDED AREA	4.30 AC.
CHATHAM COUNTY AKP PAR CHATHAM COUNTY P.I.N. DEVELOPER	60115 AMERICAN SELF STORAGE, INC. 805 H AND R DRIVE KNIGHTDALE, N. C. 27545 (919) 444-9014

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  - CONTRACTOR SHALL PAINT SYMBOLS, INSTALL SIGNS AND CONDUIT NECESSARY DUMPS, AS PER THE NORTH CAROLINA STATE BUILDING CODE, FOR ALL HANDICAP PARKING SPACES AS NOTED ON PLAN.
  - CONTRACTOR SHALL DELINEATE PARKING SPACES, HANDICAP SYMBOLS, DIRECTIONAL ARROWS, LANE MARKINGS, STOP MESSAGES, ETC. AS SHOWN ON THE PLANS WITH TRAFFIC MARKING PAINT ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. USE WHITE PAINT.
  - CALL NORTH CAROLINA ONE CALL CENTER @ 1-800-452-6949 BEFORE DIGGING.
  - DISTURBED AREA IS 4.30 ACRES.
  - THIS SITE IS NOT WITHIN A 100 YEAR FLOODWAY FRINGE AREA.
  - HOURS OF OPERATION ARE: MONDAY - FRIDAY 7:00 am - 8:00 pm & SATURDAY 7:00 am - 8:00 pm
  - NUMBER OF EMPLOYEES - 0



TOTAL AREA  
451,440 sq. ft.  
10.36 acres

CAROLINA POWER & LIGHT CO  
DB 819/848  
PIN 9712-51-4508.000  
ZONING IND-L

TROY M. HOWARD ENTERPRISES, LLC  
DB 1415/738  
PB 12/77  
PIN 9712-40-9070.000  
ZONING IND-L

STORM DRAINAGE DATA														
Q10- I=7.22 in/hr.; Q2- I=5.76 in/hr.; Q1- I=4.61 in/hr.; Q25- I= 8.19 in/hr														
BASIN #	TOP	INV. IN	INV. OUT	PIPE NO.	PIPE SIZE	PIPE SLOPE	DRAINAGE AREA	"C"	Q1	Q2	Q10	Q25	TOTAL Q25	
Y.I.# 1	435.0		429.0	520'	36" HDPE	1.54 %	9.1 AC.	.75	31.46	39.31	49.28	55.90	55.90	
FES #2		421.0											8.32	
Y.I.# 3	432.1	428.0	425.4	114'	30" HDPE	0.6 %	.89 AC.	.95	3.90	4.87	6.10	6.92	15.24	
Y.I.# 4	428.8	425.5	424.6	97'	30" HDPE	0.6 %	.24 AC.	.95	1.05	1.31	1.65	1.87	17.11	
FES #6		424.0											17.11	

MICHAEL L. DUCKWALL  
DB 517/247  
PIN 9712-51-0185.000  
ZONING IND-L

**BLAKELY DESIGN GROUP**  
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Landscape Architecture

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E-Mail: taylor@blakelydesign.net

**AMERICAN SELF STORAGE**  
6193 U.S.64, PITTSBORO, N.C.

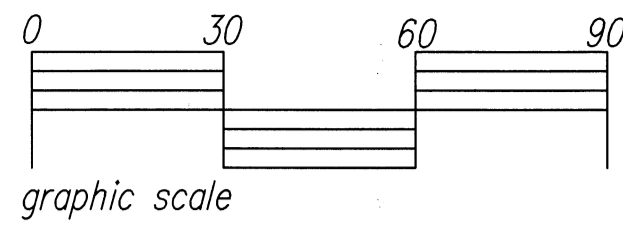
GRADING & DRAINAGE PLAN

DATE SEPT 30, 17  
SCALE 1"=30'  
DRAWN BTB

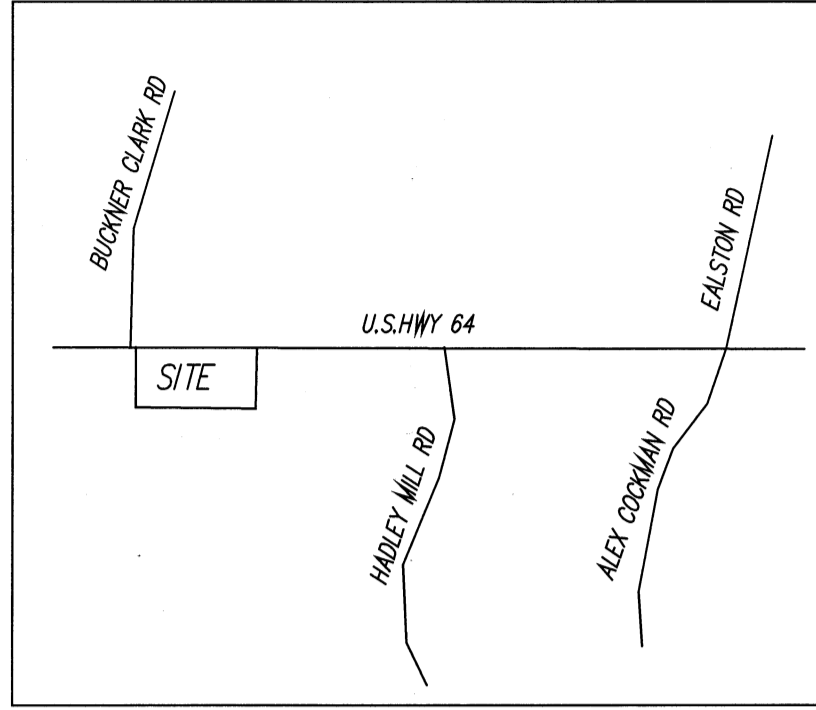
JOB NO.  
REVISIONS  
11-18 BTR REVISION, Comb. bldg 1  
3-23-18 BTR REVISION PER COUNTY

SHEET  
C2.0

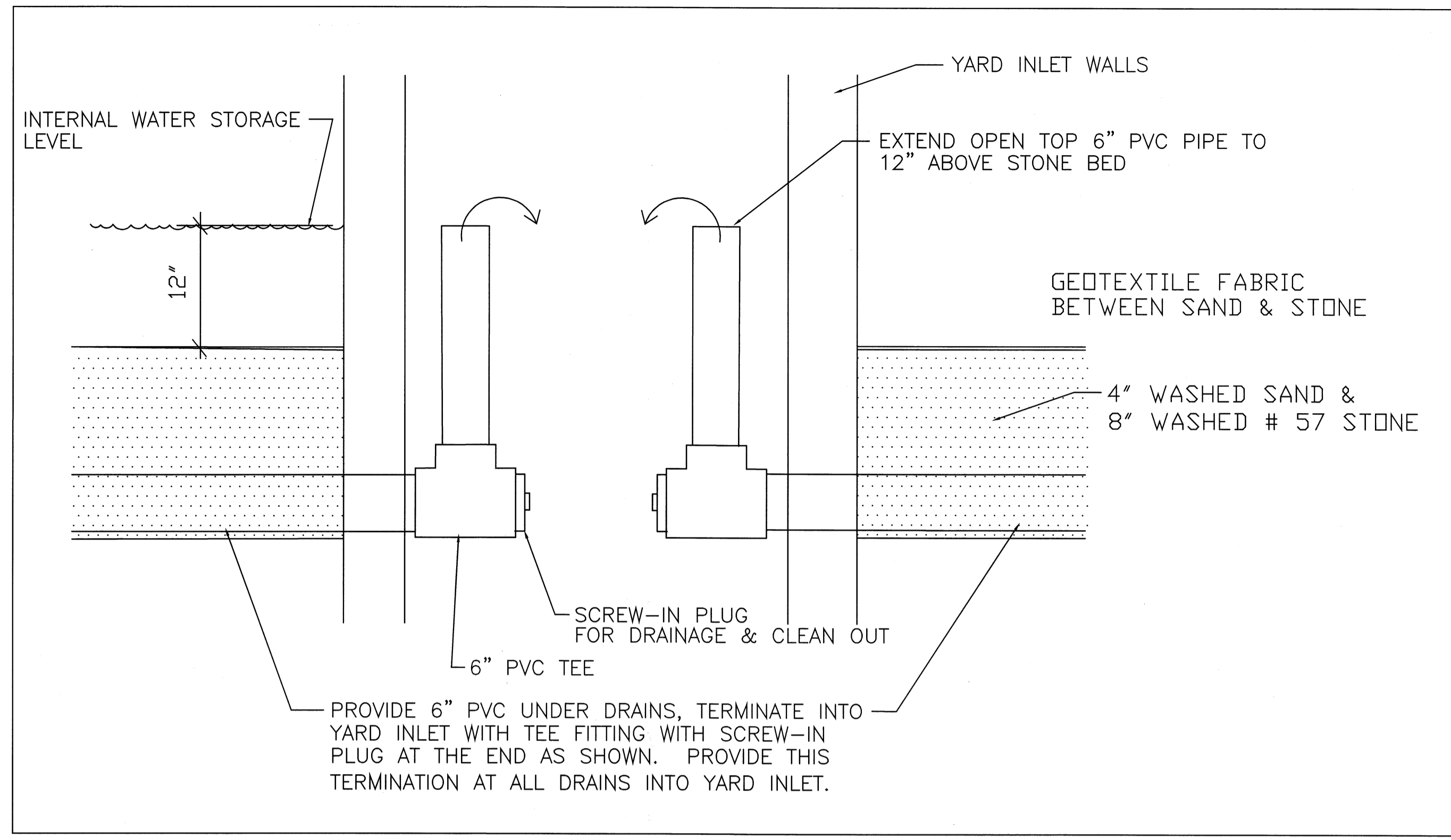
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SCALE: 1" = 30'  
NC GRID NAD '83/01

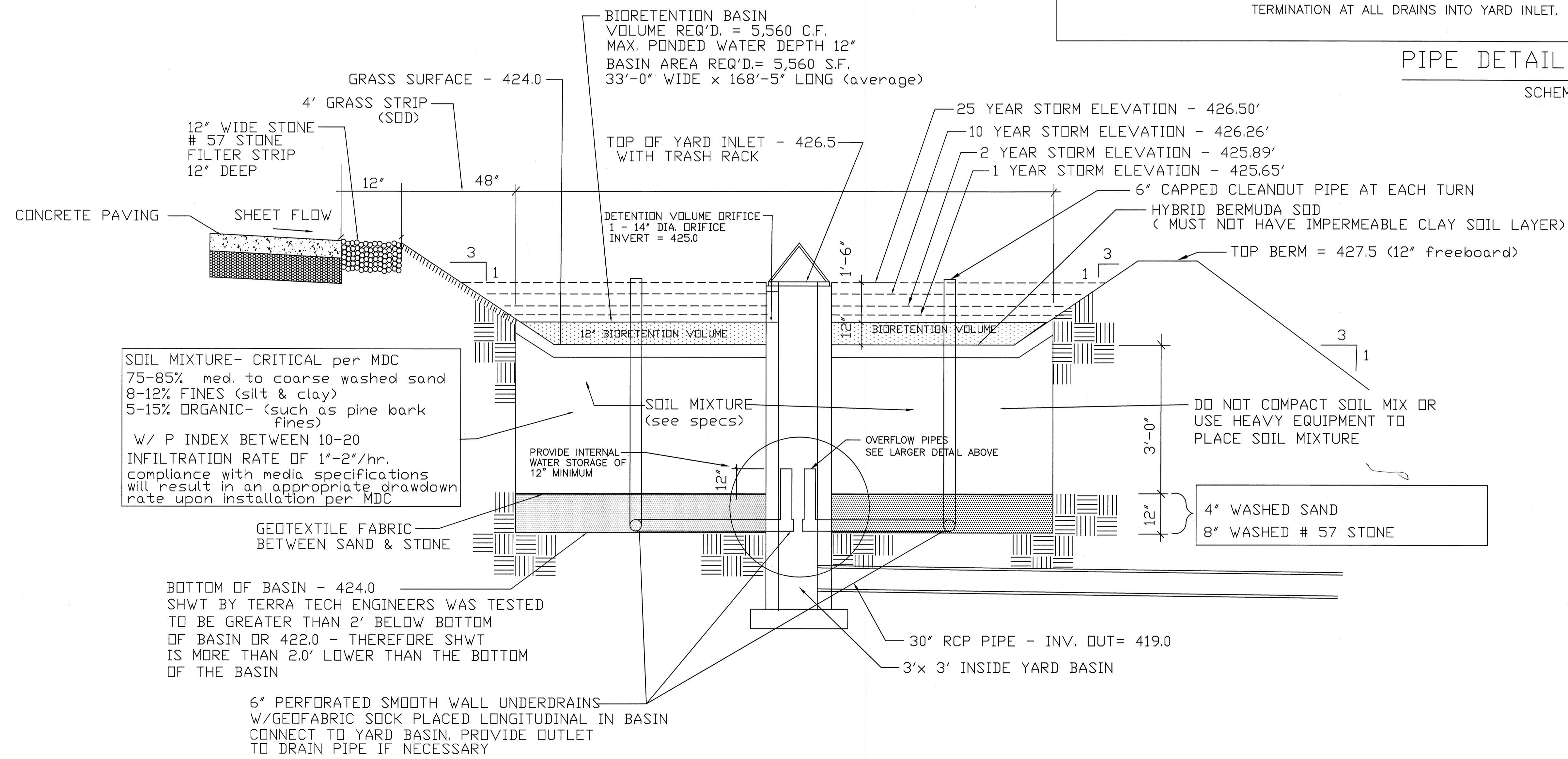


VICINITY MAP



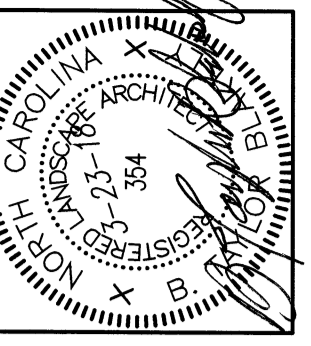
PIPE DETAILS AT YARD INLET

SCHEMATIC NTS



TYPICAL SECTION THRU GRASSED BIO-RETENTION BASIN WITH INTERNAL WATER STORAGE

SCHEMATIC NTS



**BLAKELY DESIGN GROUP**  
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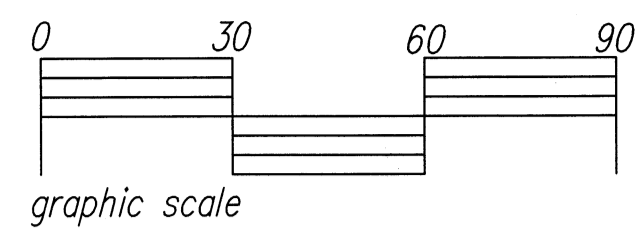
BIORETENTION DETAILS PLAN

**AMERICAN SELF STORAGE**  
6193 U.S.64, PITTSBORO, N.C.

DATE	SEPT 30, 20
SCALE	1"=30'
DRAWN	BTB
JOB NO.	
REVISIONS	
1-11-18 BTB REVISED, Comp. Map 1	
2-23-18 BTB REVISED PER COUNTY	

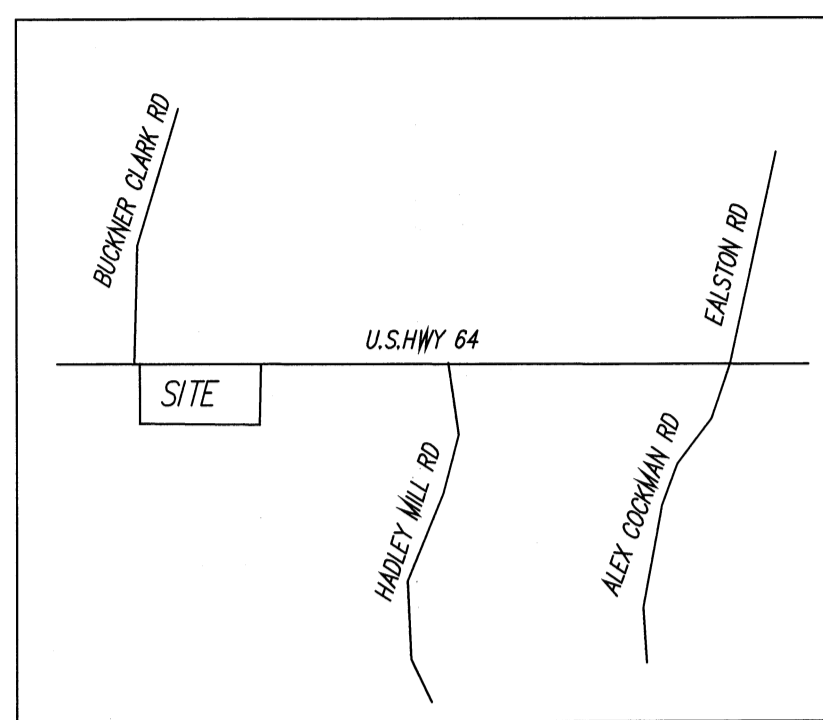
SHEET  
C2.1

C:\Documents and Settings\Taylor\My Documents\Robert Kapp\Pittsboro West\HWY 64 WEST SITE PLAN 1-8-18.dwg, 3/23/2018 2:06:07 PM, Xerox 6204 Wide Format



SCALE: 1" = 30'  
NC GRID NAD '83/01

S88°29'02"E  
345.01

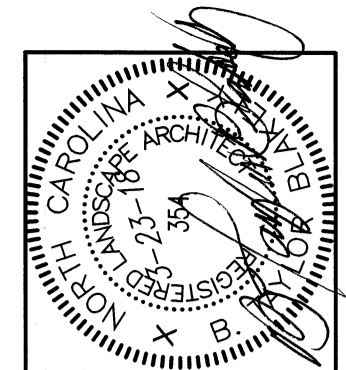


VICINITY MAP

TOTAL AREA  
451,440 sq. ft.  
10.36 acres

U.S. HIGHWAY 64  
(EXISTING VARIABLE WIDTH PUBLIC R/W)

PLANT LIST					
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	REMARKS
CE	ILAMIS PARVIFOLIA	CHINESE ELM	2.5" CAL.	4	12' MIN. HT. B. & B.
GG	THUJA X PLICATA	GREEN GIANT ARBORVITAE	1.5" CAL.	133	6' MIN. HT. B. & B.



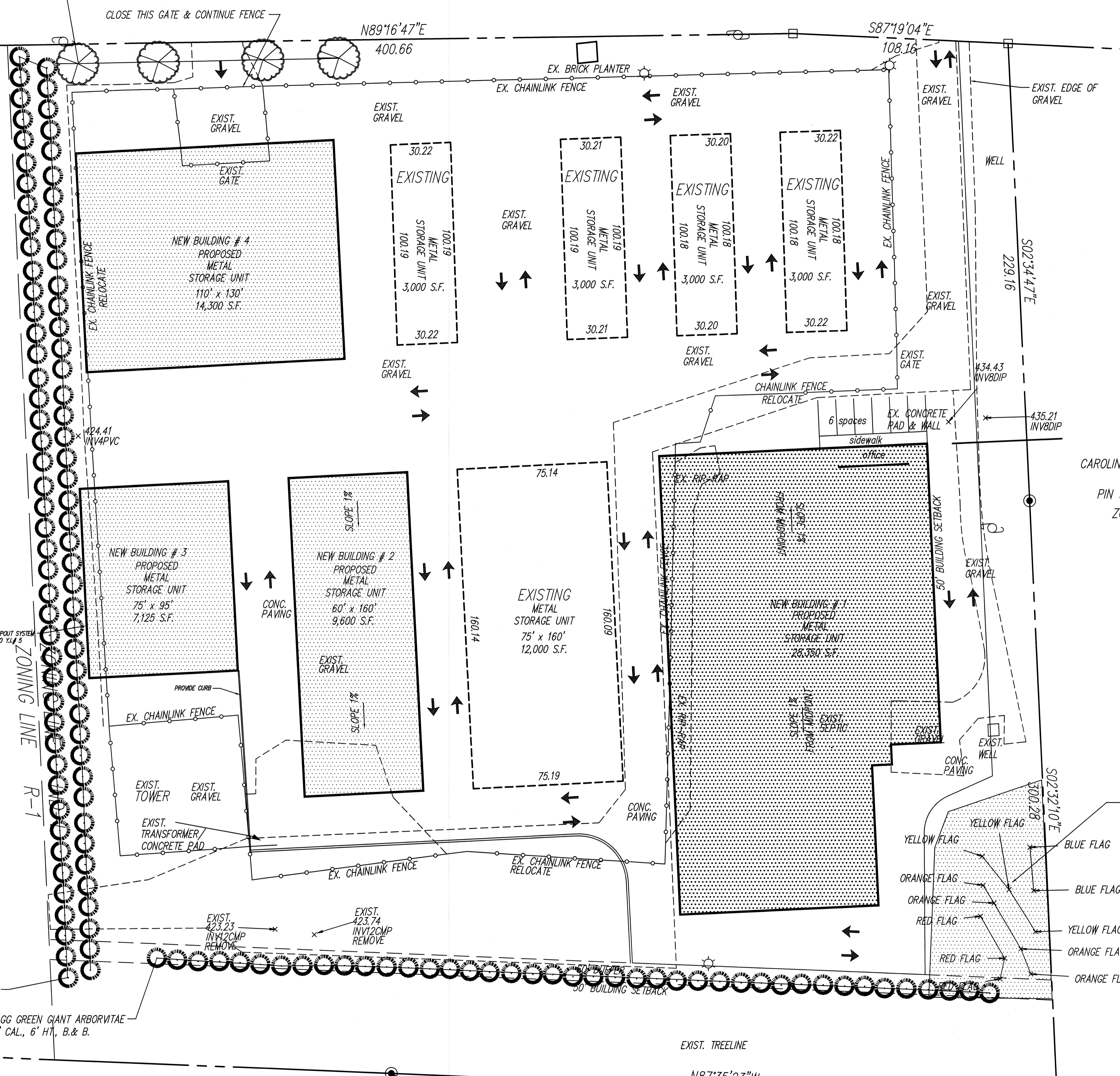
BLAKELY DESIGN GROUP  
Landscape Architecture Site Planning

AMERICAN SELF STORAGE  
6193 U.S. 64, PITTSBORO, N.C.

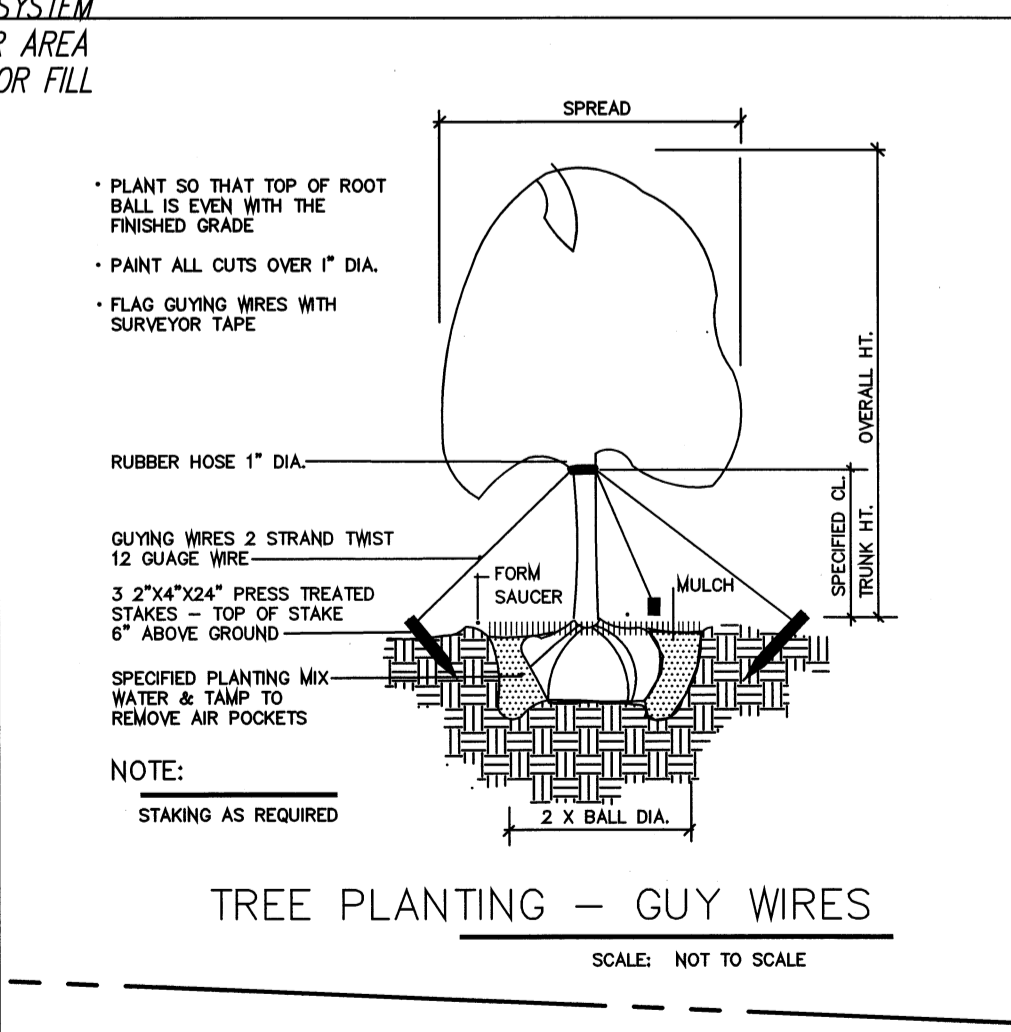
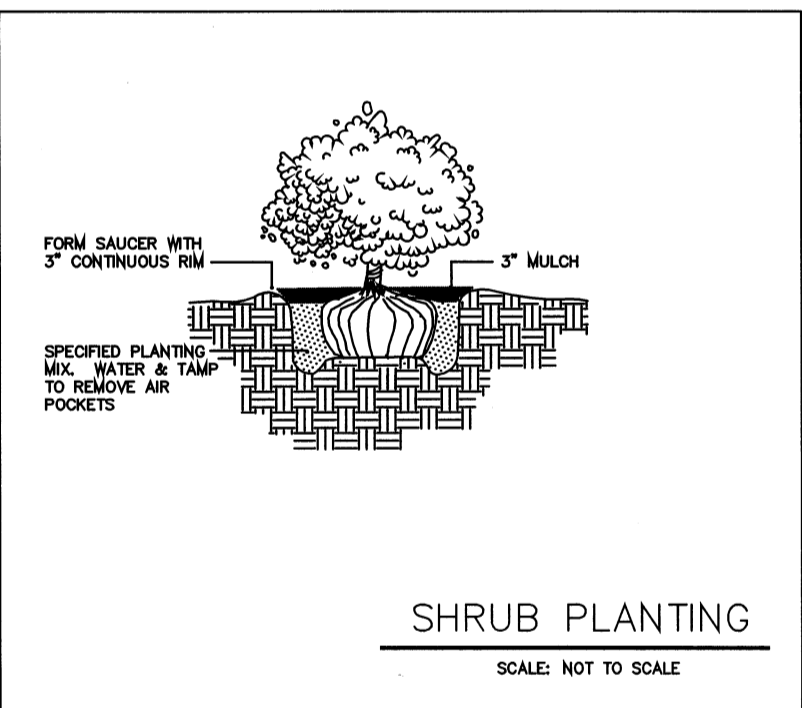
LANDSCAPE PLAN

DATE SEPT 30, 17  
SCALE 1"=30'  
DRAWN BTB  
JOB NO.  
REVISIONS  
10-26-17 BTB REVISED PER CHATHAM CO. COMMENTS  
1-18-18 BTB REVISED COMB. 1049 1  
3-23-18 BTB REVISED PER COUNTY

SHEET  
C3.0



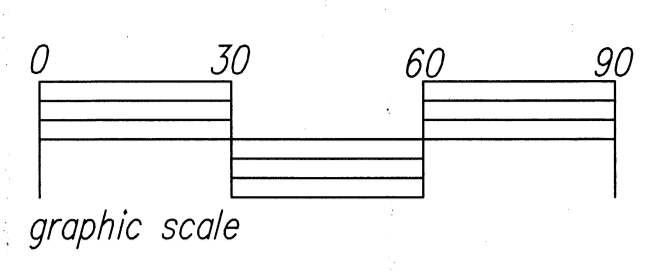
CAROLINA POWER & LIGHT CO  
DB 819/848  
PIN 9712-51-4508.000  
ZONING IND-L



TROY M. HOWARD ENTERPRISES, LLC  
DB 1415/738  
PB 12/77  
PIN 9712-40-9070.000  
ZONING IND-L

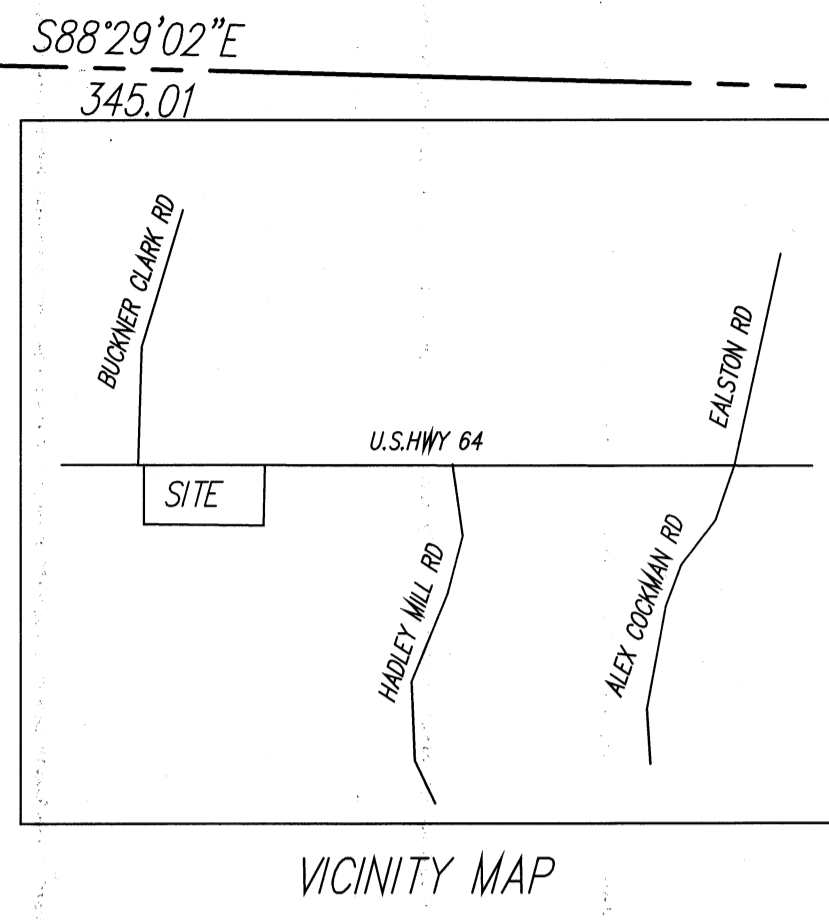
MICHAEL L. DUCKWALL  
DB 517/247  
PIN 9712-51-0185.000  
ZONING IND-L

C:\Documents and Settings\Troy\My Documents\ROBERT KAPP\Pittsboro West\HWY 64 WEST SITE PLAN 1-8-18.dwg, 3/23/2018 3:08:03 PM, Xerox 6204 Wide Format

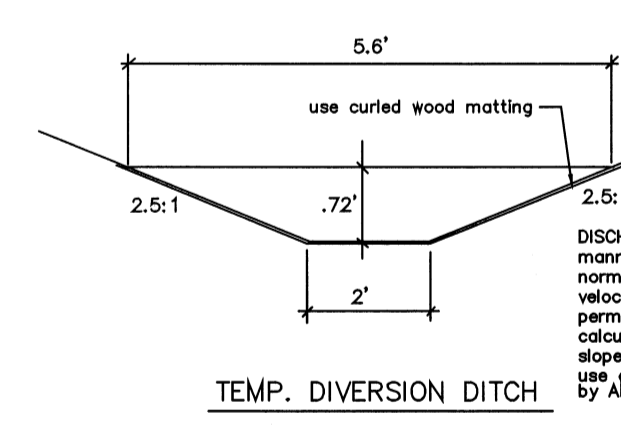


SCALE: 1" = 30'  
NC GRID NAD '83/01

U.S. HIGHWAY 64  
(EXISTING VARIABLE WIDTH PUBLIC R/W)



TOTAL AREA  
451,440 sq. ft.  
10.36 acres

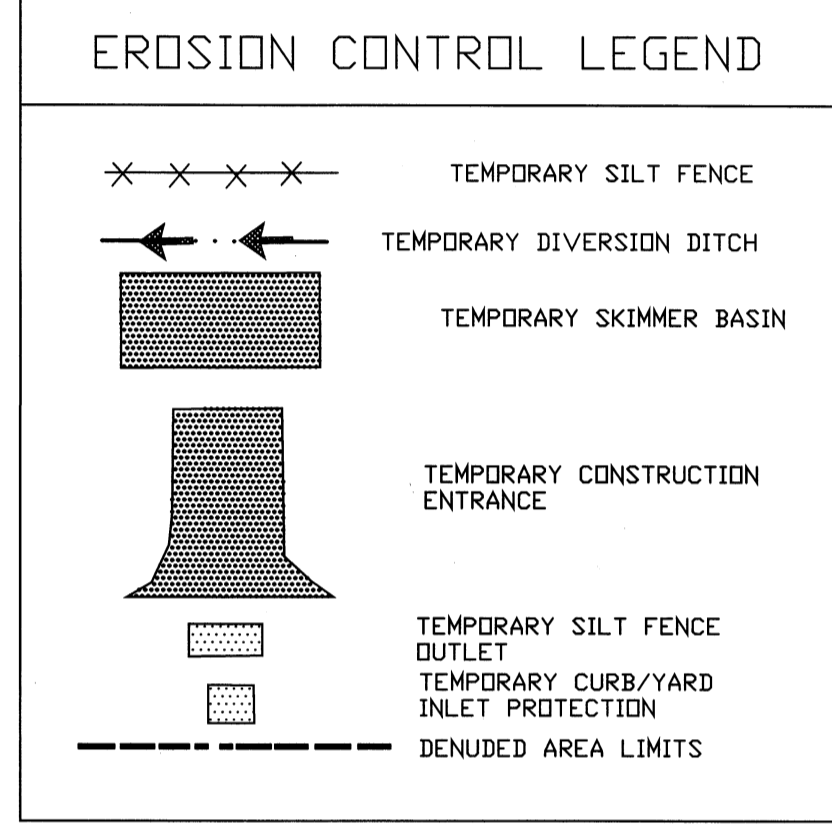


DISCHARGE - 8.6 c.f.s.  
maning ca. = .045  
normal depth = .72 ft.  
velocity = 3.61 ft/s.  
permissible shear = 1.55 lb/s.f.  
calculated shear = 1.49 lb/s.f.  
slope = .025 ft/ft  
USE DESIGN 11 EROSION CONTROL PLAN BY AMERICAN DESIGN GROUP

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ZONING IND-L

- NOTES**
- BOUNDARY AND TOPOGRAPHIC & AS-BUILT INFORMATION TAKEN FROM MAP PREPARED BY STEVE PUCKETT LAND SURVEYORS AND DATED FEBRUARY 2018.
  - ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT CHATHAM COUNTY STANDARDS, SPECIFICATIONS AND DETAILS.
  - CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR CONSTRUCTION SHOWN ON THESE PLANS.
  - ALL DIMENSIONS AND STAKING POINT LOCATIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
  - ANY WORK SHOWN ON THESE PLANS THAT IS FOUND TO BE IN CONFLICT WITH THE CHATHAM COUNTY ZONING AND SETBACK REQUIREMENTS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT FOR ADJUSTMENT.
  - LOCATIONS FOR EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAME.
  - CONTRACTOR SHALL AT ALL TIMES MAINTAIN ADEQUATE SAFETY HEADGAGES, ACTIVITIES, AND BARRICADES FOR THE PROTECTION OF ALL PERSONS ON OR ABOUT THE LOCATION OF THE SITE.
  - CONTRACTOR SHALL PAINT SYMBOLS, INSTALLED SIGNS AND CONSTRUCT NECESSARY RAMPS, AS PER THE NORTH CAROLINA STATE BUILDING CODE, FOR ALL HANDICAP PARKING SPACES AS NOTED ON PLAN.
  - CONTRACTOR SHALL DELINEATE PARKING SPACE LINES, HANDICAP SYMBOLS, DIRECTIONAL ARROWS, LANE MARKINGS, "STOP" MESSAGES, ETC. AS SHOWN ON THE PLANS WITH TRAFFIC MARKING PAINT ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. USE WHITE PAINT.
  - CALL NORTH CAROLINA ONE CALL CENTER @ 1-800-632-4949 BEFORE DIGGING.
  - DISTURBED AREA IS 4.30 ACRES.
  - THIS SITE IS NOT WITHIN A 100 YEAR FLOODWAY FRINGE AREA.
  - HOURS OF OPERATION ARE: MONDAY - FRIDAY 7:00 am - 5:00 pm & SATURDAY 7:00 am - 9:00 pm
  - NUMBER OF EMPLOYEES - 0

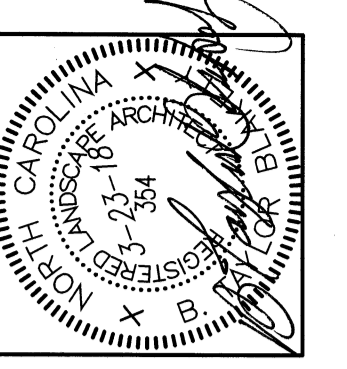
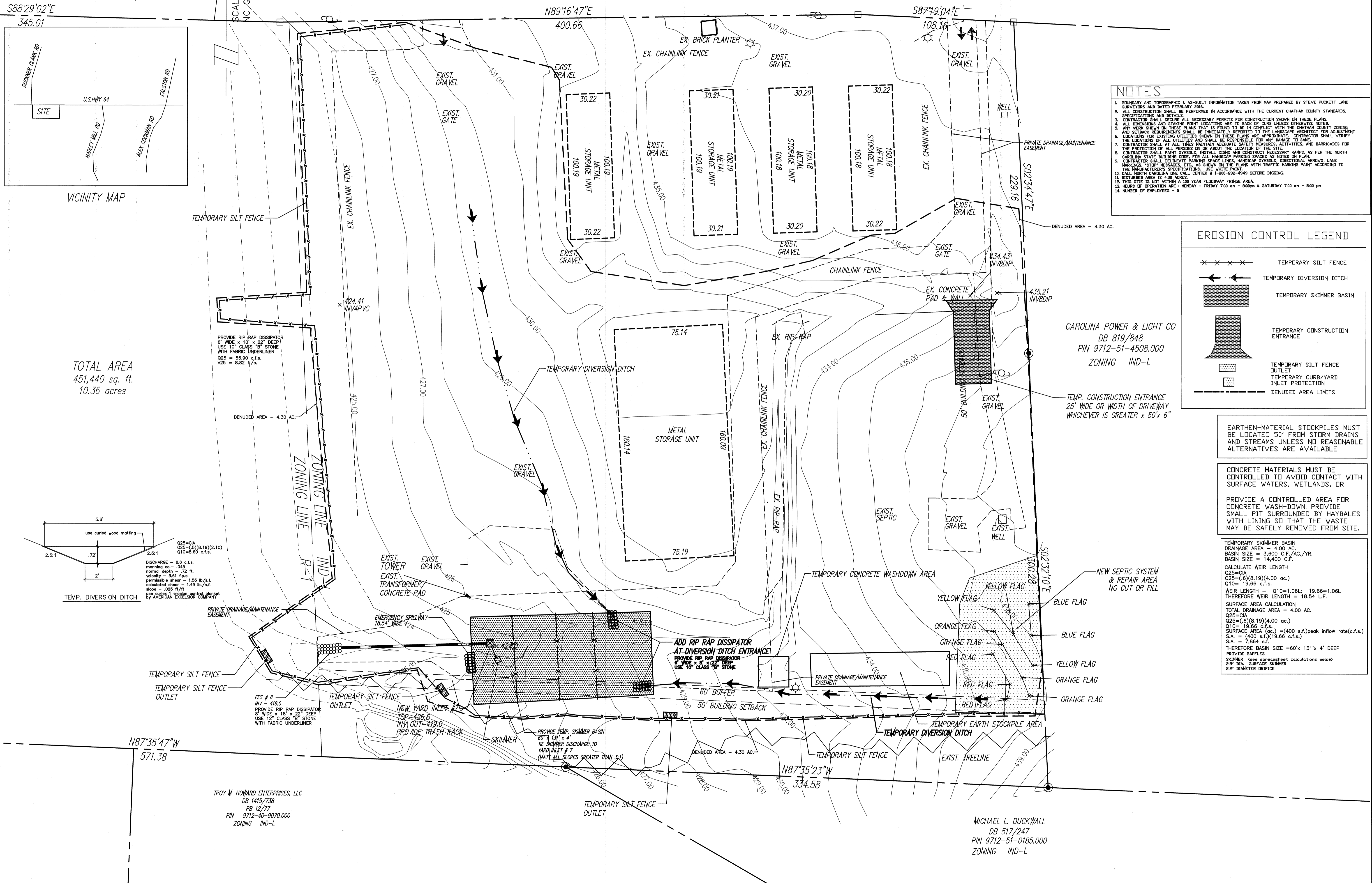


EARTHEN-MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE

CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR

PROVIDE A CONTROLLED AREA FOR CONCRETE WASH-DOWN. PROVIDE SMALL PIT SURROUNDED BY HAYBALES WITH LINING SO THAT THE WASTE MAY BE SAFELY REMOVED FROM SITE.

TEMPORARY SKIMMER BASIN  
DRAINAGE AREA - 4.00 AC.  
BASIN SIZE = 3,600 C.F./AC./YR.  
BASIN SIZE = 14,400 C.F.  
CALCULATE WEIR LENGTH  
Q25=CA  
Q25=(6)(8.19)(4.00 ac.)  
Q10=19.66 c.f.s.  
WEIR LENGTH = Q10-1.06L: 19.66=1.06L  
THEREFORE WEIR LENGTH = 18.54 L.F.  
SURFACE AREA CALCULATION  
TOTAL DRAINAGE AREA = 4.00 AC.  
Q25=CA  
Q25=(6)(8.19)(4.00 ac.)  
Q10=19.66 c.f.s.  
SURFACE AREA (ac.) = (400 s.f.)(19.66 c.f.s.)  
S.A. = 7,864 s.f.  
THEREFORE BASIN SIZE = 60'x 131'x 4' DEEP  
PROVIDE BAFFLES  
SKIMMER (see spreadsheet calculations below)  
24" DIA. SURFACE SKIMMER  
24" DIAMETER DRIFICE

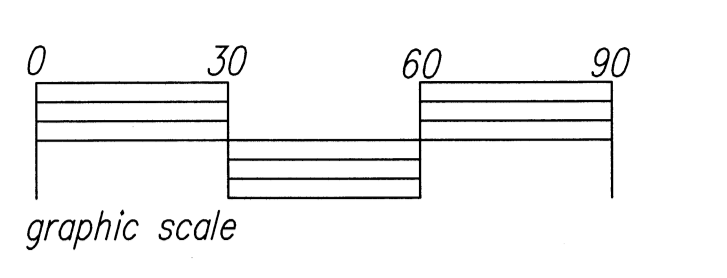


**BLAKELY DESIGN GROUP**  
Site Planning  
Landscape Architecture  
9700 Expedition Place, Suite 100, Raleigh, North Carolina 27616  
Telephone (919) 870-1888 Fax (919) 870-0752  
E-Mail: taylor@blakelydesign.com

EROSION PLAN - PHASE 1 CLEARING & GRUBBING  
**AMERICAN SELF STORAGE**  
6193 U.S.64, PITTSBORO, N.C.

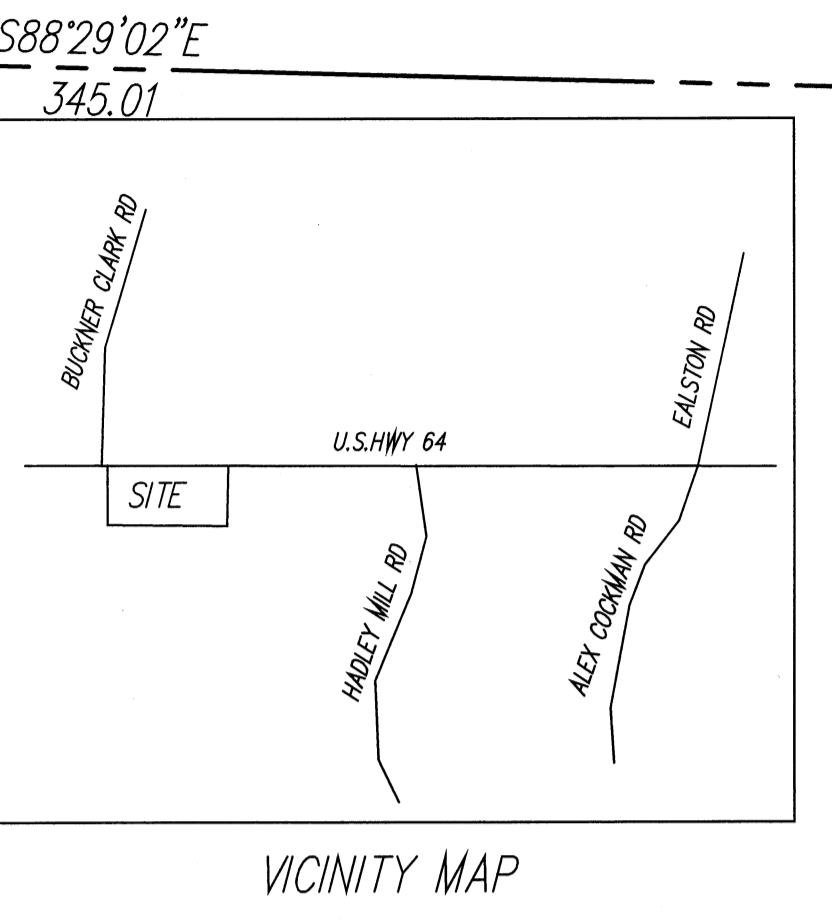
DATE SEPT 30,17  
SCALE 1"=30'  
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11-17 btb REVISED STAFF COMMENTS  
11-18 btb REVISED STAFF COMMENTS  
1-23-18 btb REVISED PER COUNTY  
SHEET  
C5.0



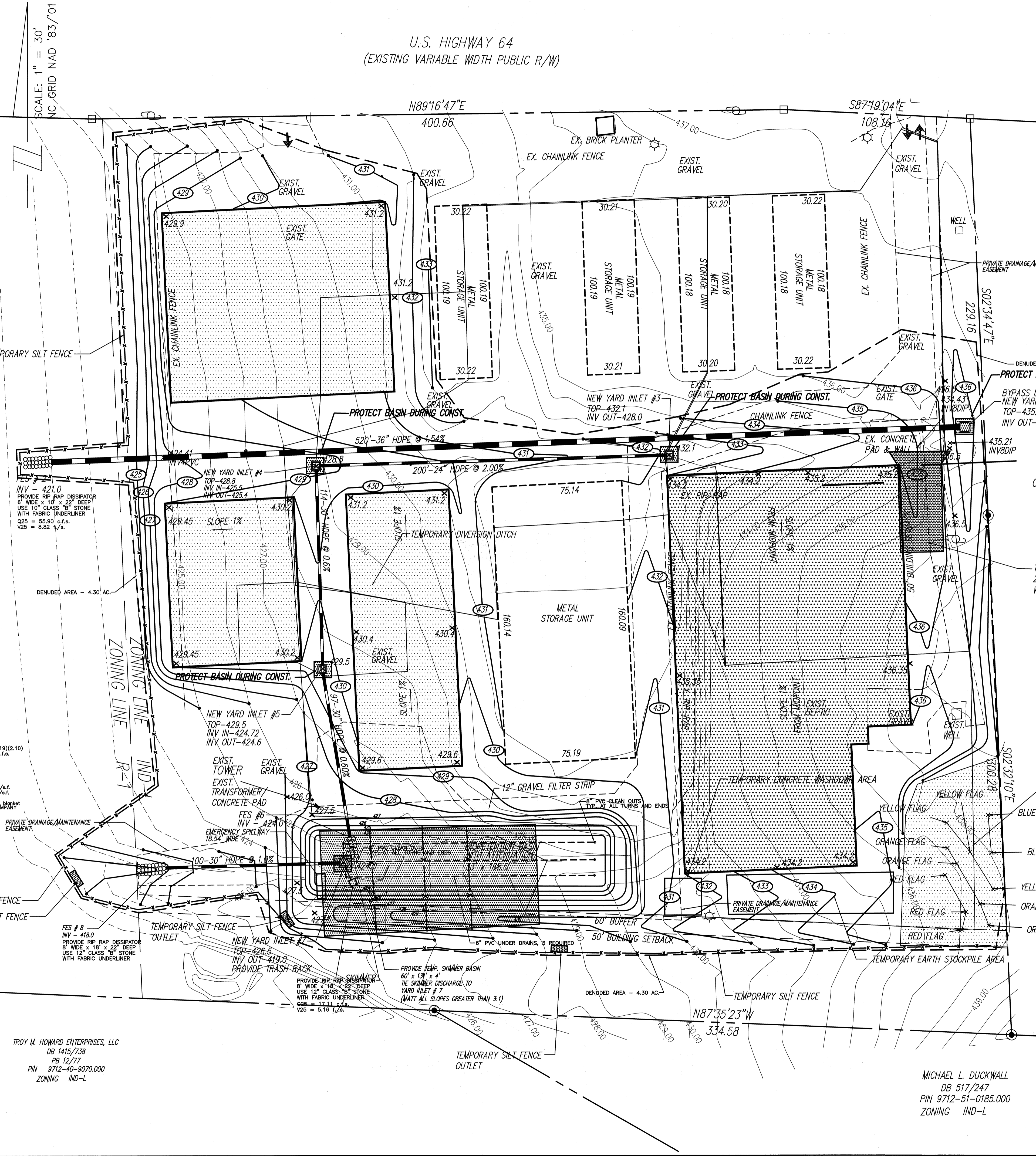
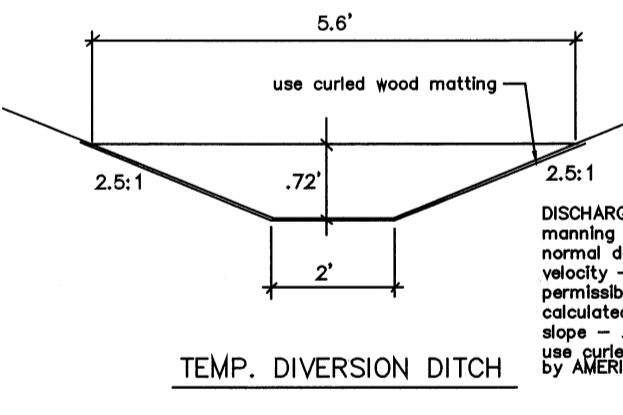


SCALE: 1" = 30'  
NC GRID NAD '83/01

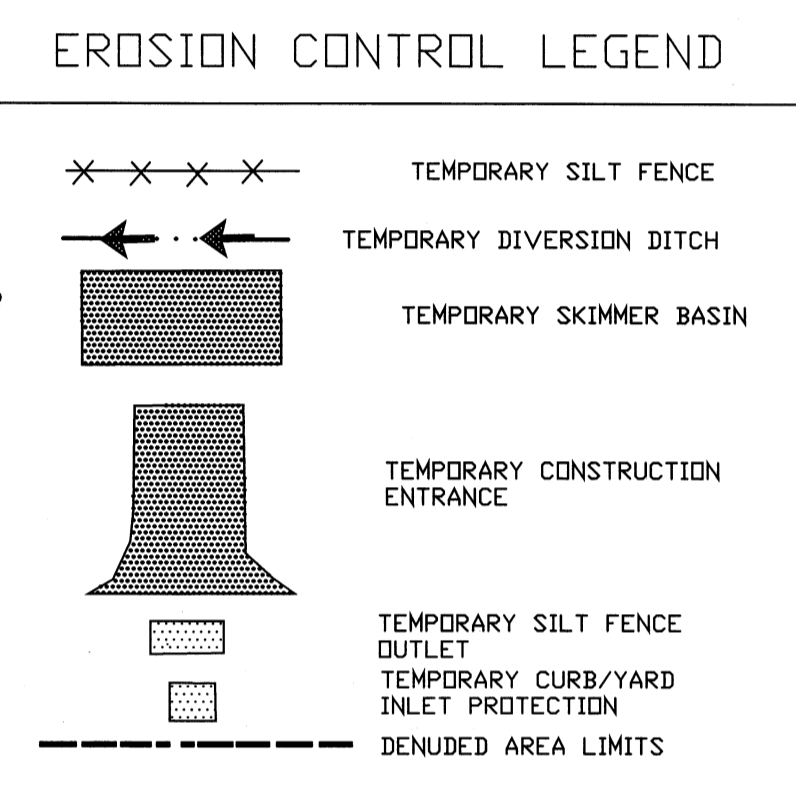
# U.S. HIGHWAY 64 (EXISTING VARIABLE WIDTH PUBLIC R/W)



TOTAL AREA  
451,440 sq. ft.  
10.36 acres



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  - THIS SITE IS NOT WITHIN A 100 YEAR FLOODWAY FRINGE AREA.
  - HOURS OF OPERATION ARE: MONDAY - FRIDAY 7:00 am - 6:00pm & SATURDAY 7:00 am - 9:00 pm
  - NUMBER OF EMPLOYEES - 0



EARTHEN-MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE

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**TEMPORARY SKIMMER BASIN**  
DRAINAGE AREA = 4.00 AC.  
BASIN SIZE = 3,600 C.F./AC./YR.  
BASIN SIZE = 14,400 C.F.  
CALCULATE WEIR LENGTH  
Q25=CIA  
Q25=(6)(8.19)(4.00 ac.)  
Q10=19.66 c.f.s.  
WEIR LENGTH = Q10/1.06L; 19.66/1.06L  
THEREFORE WEIR LENGTH = 18.54 L.F.  
SURFACE AREA CALCULATION  
TOTAL DRAINAGE AREA = 4.00 AC.  
Q25=CIA  
Q25=(6)(8.19)(4.00 ac.)  
Q10=19.66 c.f.s.  
SURFACE AREA (ac.)=(400 s.f./19.66 c.f.s.)  
S.A. = 7,864 s.f.  
THEREFORE BASIN SIZE = 60' x 131' x 4' DEEP  
PROVIDE BAFFLES  
SKIMMER (See spreadsheet calculations below)  
8" DIA. SURFACE SKIMMER  
8" DIA. DRIFTE

PROTECT BASIN DURING CONST.  
BYPASS UPSTREAM DRAINAGE  
NEW YARD INLET #1  
TOP - 435.0  
INV OUT - 429.0  
USE 36" PIPE MIN. 1% SLOPE

DRAINAGE AREA = 9.1 AC.  
Q25 = (7.5)(8.19)(9.1)  
Q25 = 55.90 c.f.s.  
use 36" pipe min. 1% slope

CAROLINA POWER & LIGHT CO  
DB 819/848  
PIN 9712-51-4508.000  
ZONING IND-L

TEMP. CONSTRUCTION ENTRANCE  
25' WIDE OR WIDTH OF DRIVEWAY  
WHICHEVER IS GREATER x 50 x 6"

NEW SEPTIC SYSTEM  
& REPAIR AREA  
NO CUT OR FILL

**Calculate Skimmer Size**

Basin Volume in Cubic Feet	14,400 Cu.Ft	Skimmer Size	2.5 Inch
Days to Drain*	3 Days	Orifice Radius	1.1 Inch[es]
		Orifice Diameter	2.2 Inch[es]

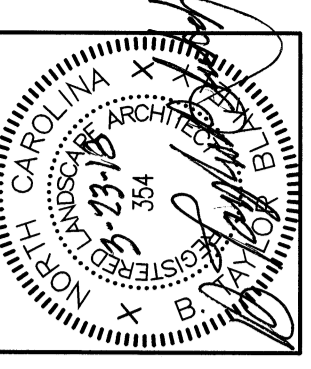
\*In NC assume 3 days to drain

**Estimate Volume of Basin**

Length	Width	Feet	VOLUME
131	60	Feet	15720 Cu. Ft.
4		Feet	

TROY M. HOWARD ENTERPRISES, LLC  
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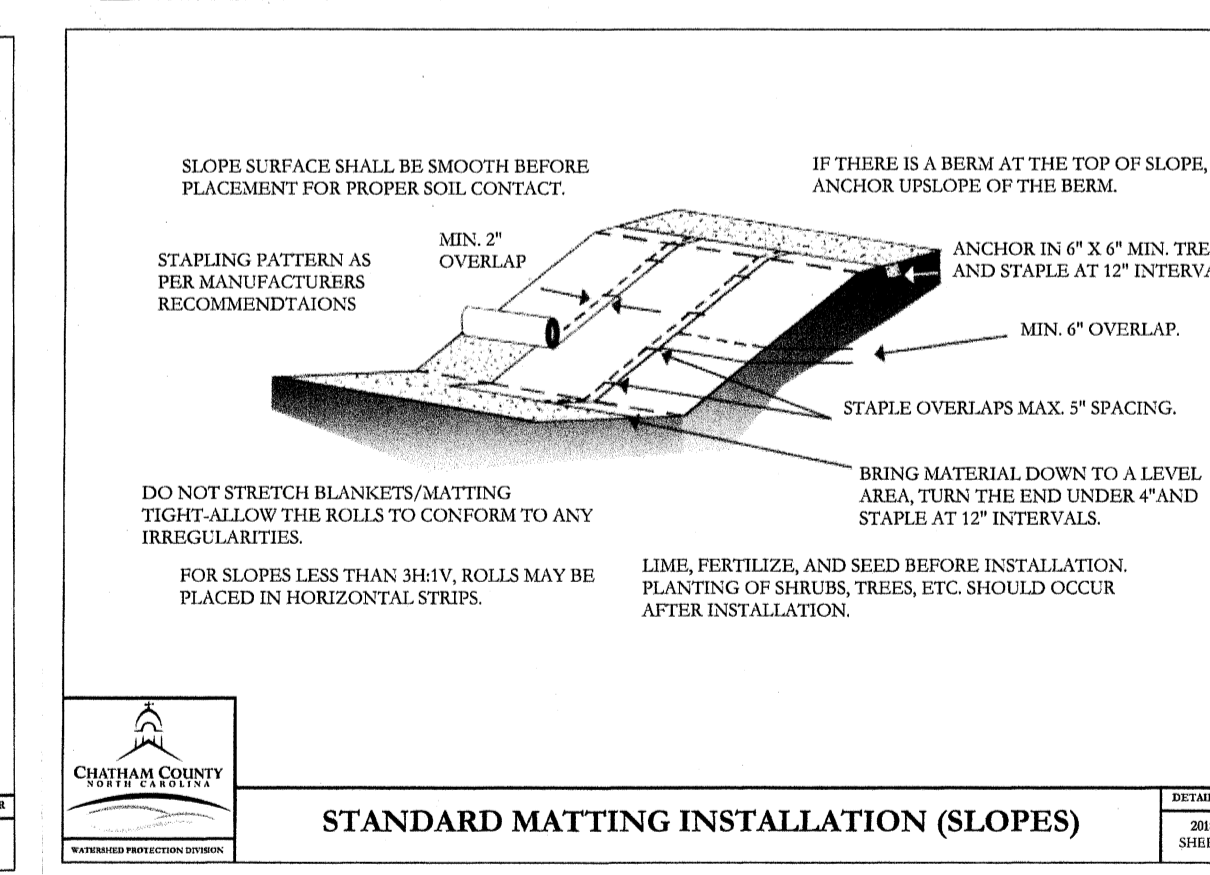
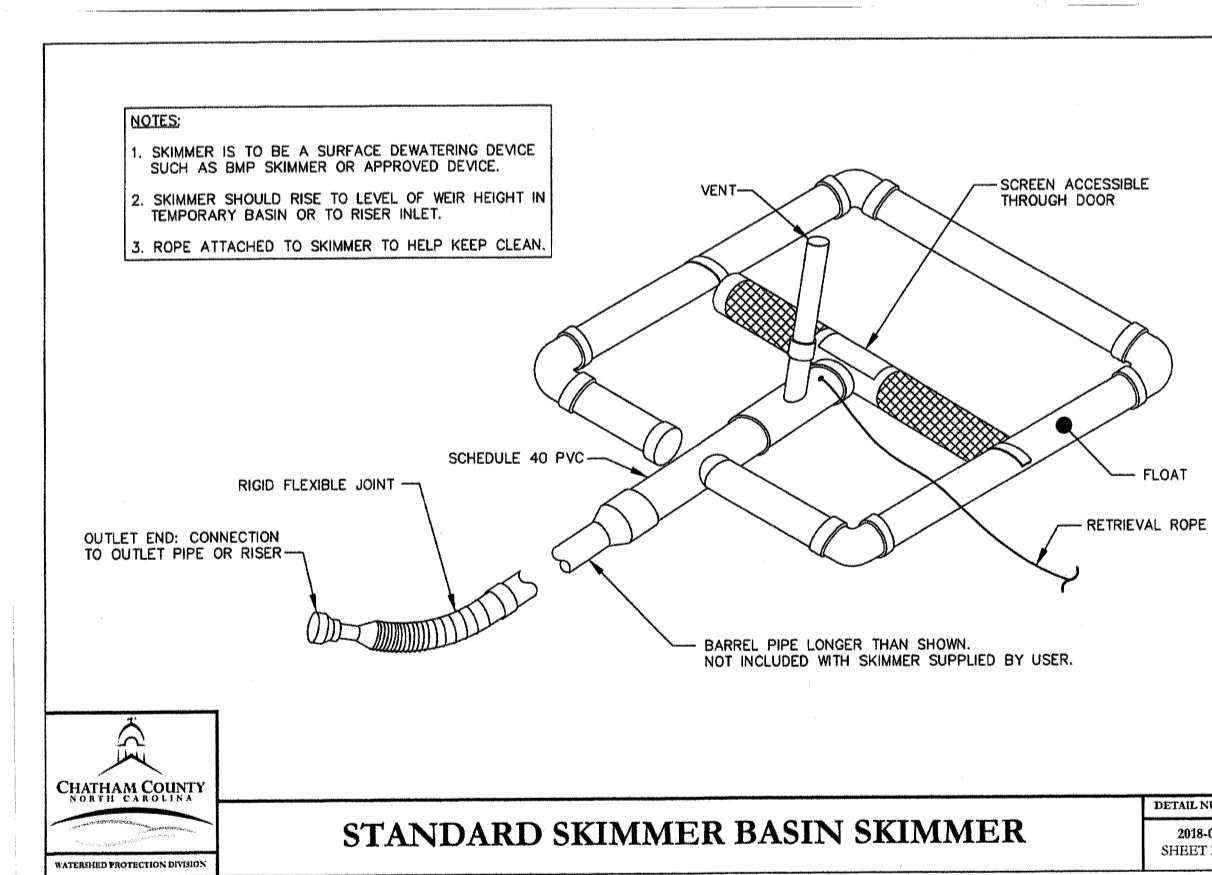
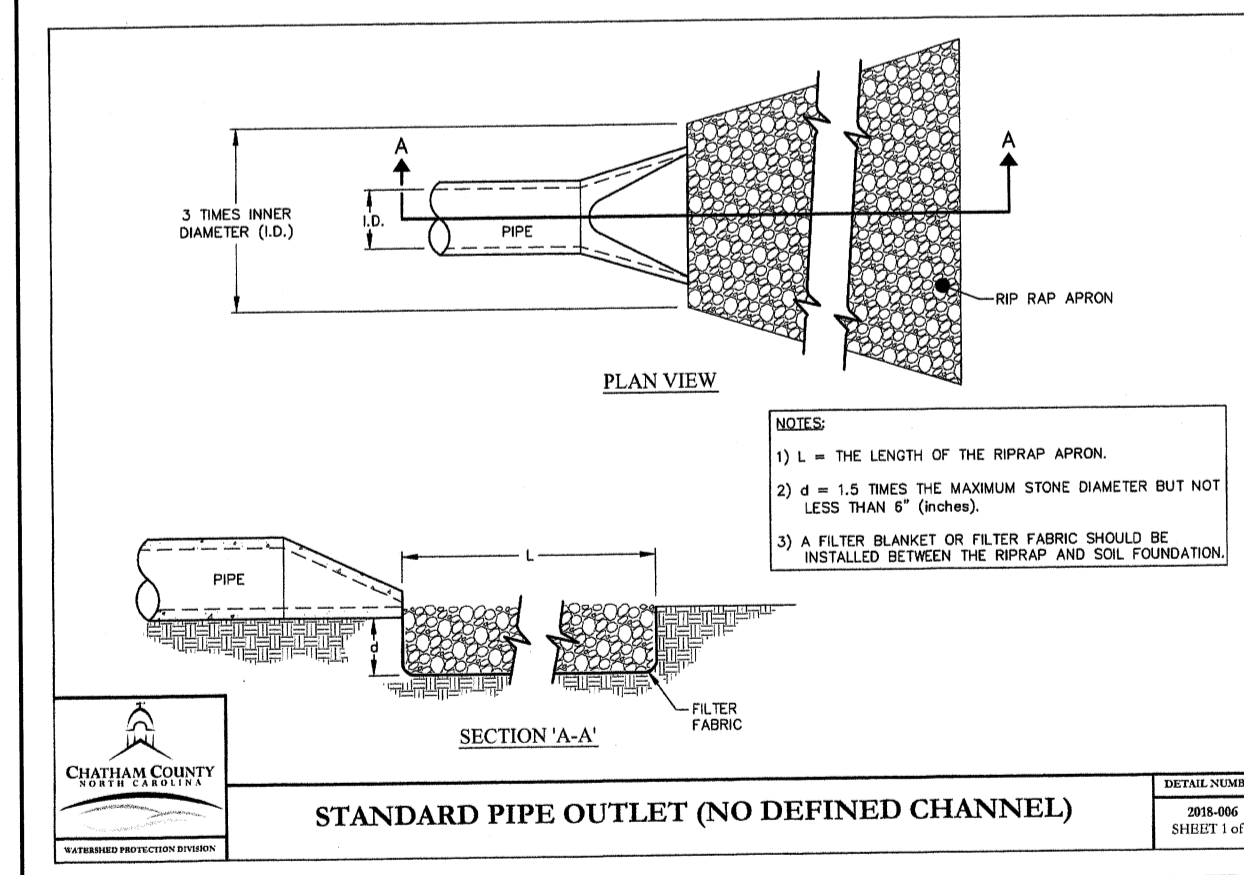
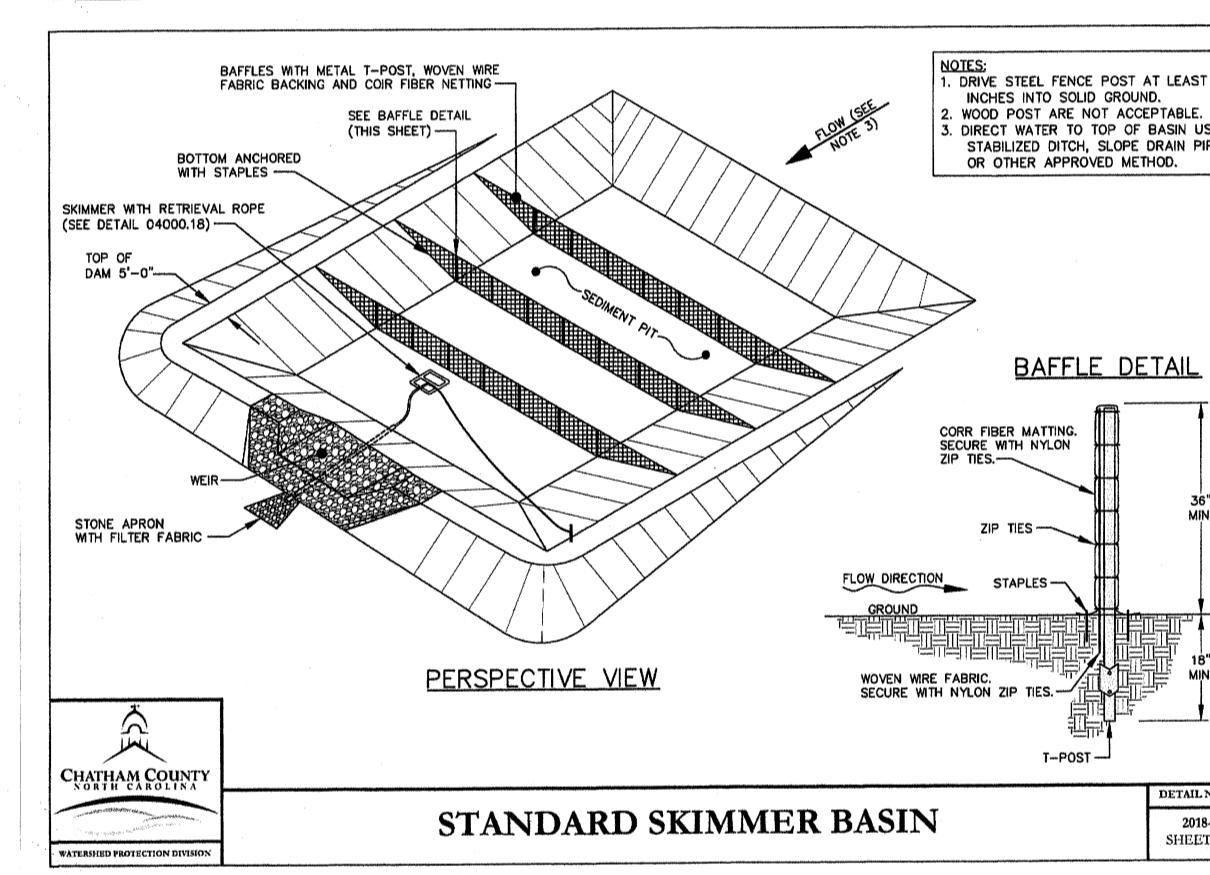
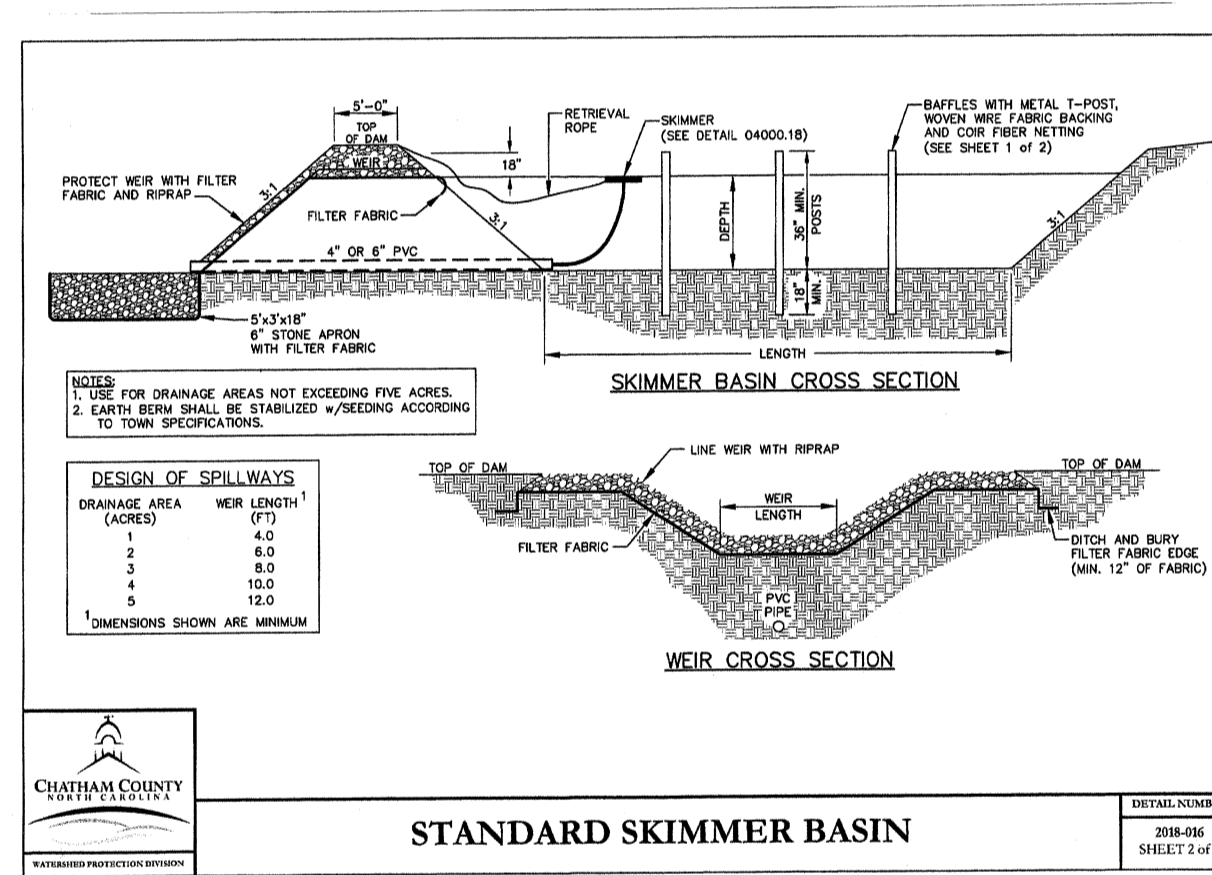
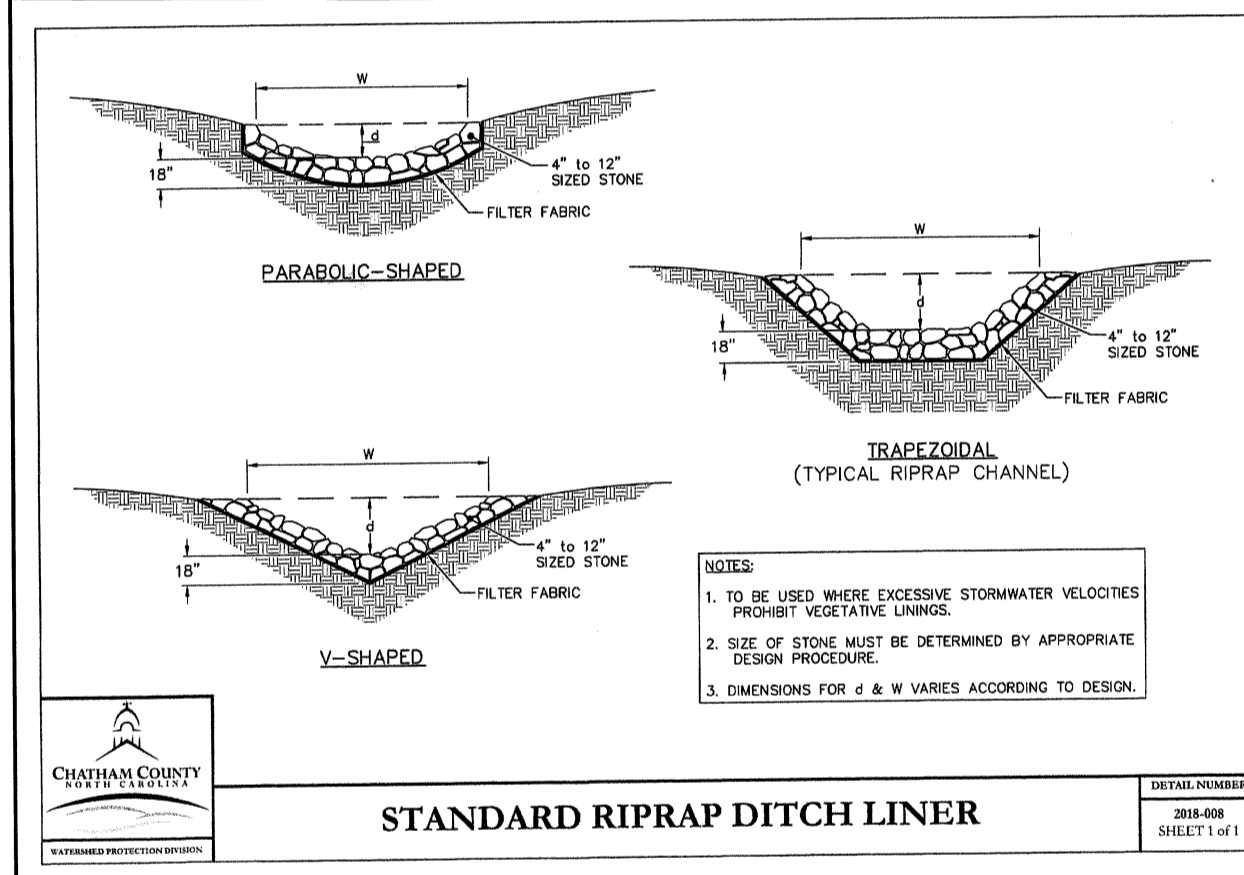
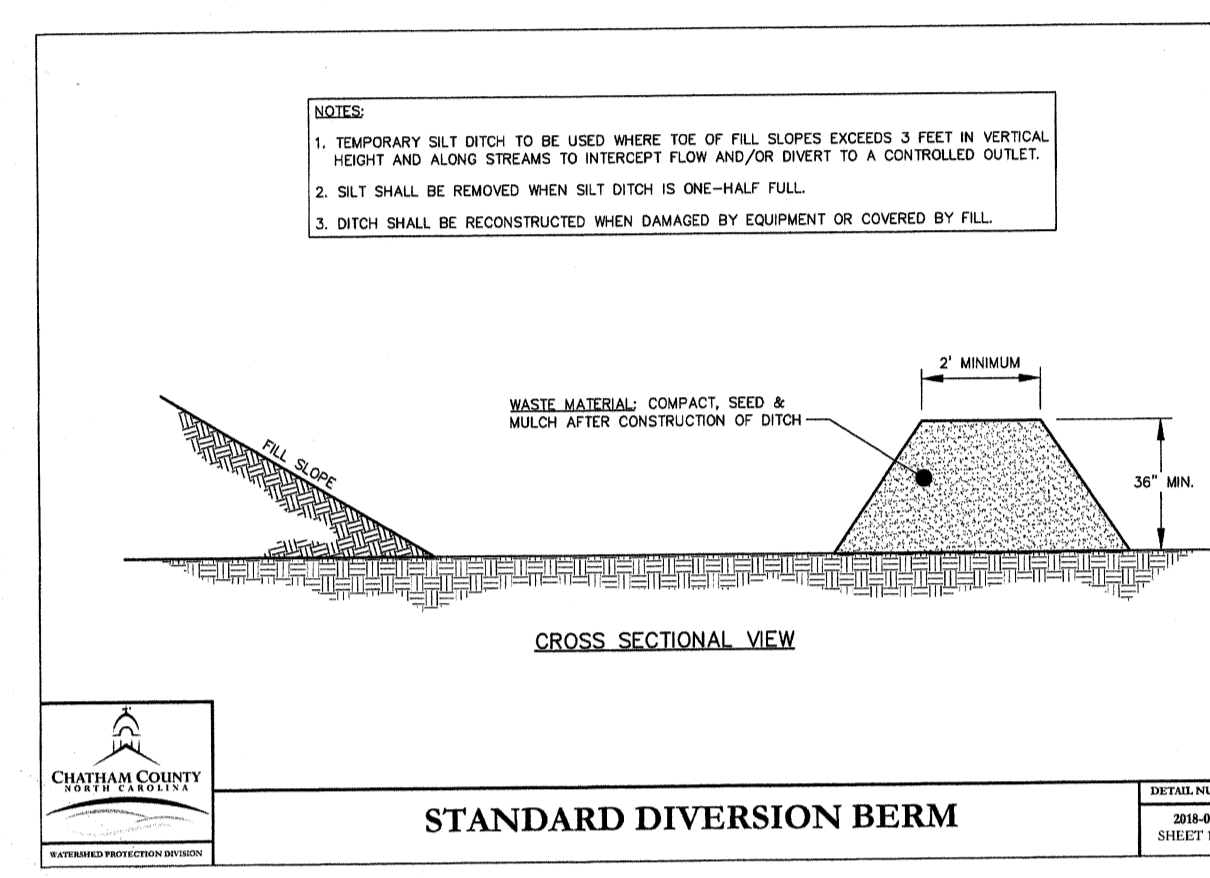
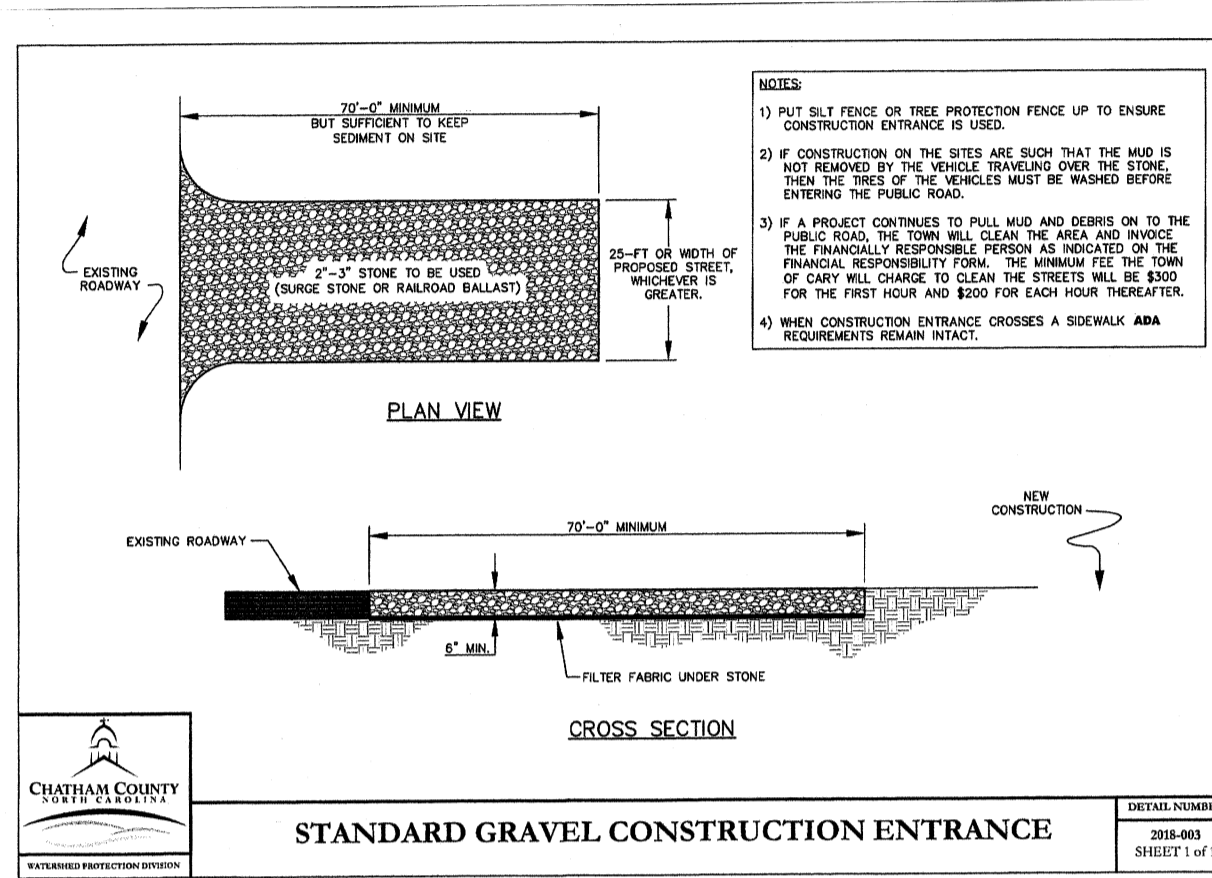
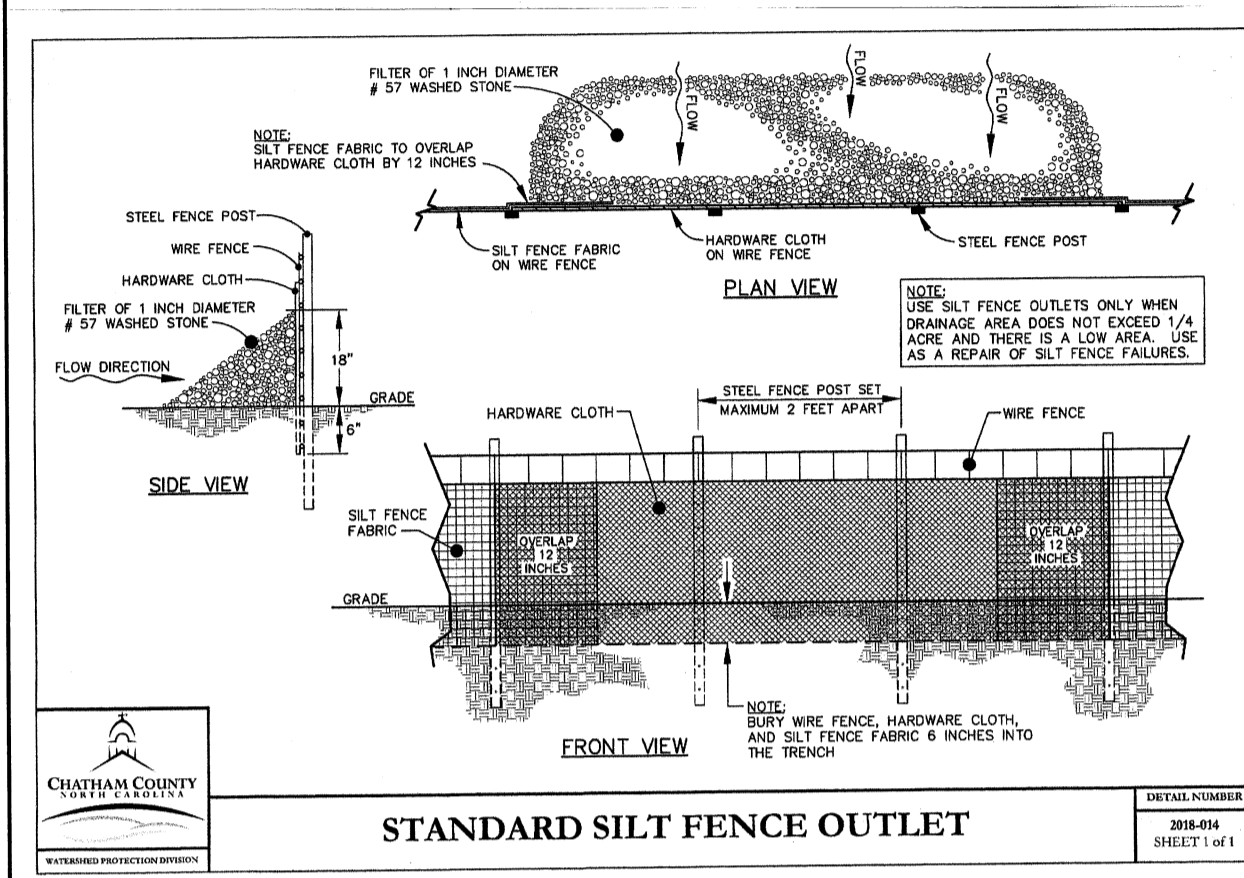
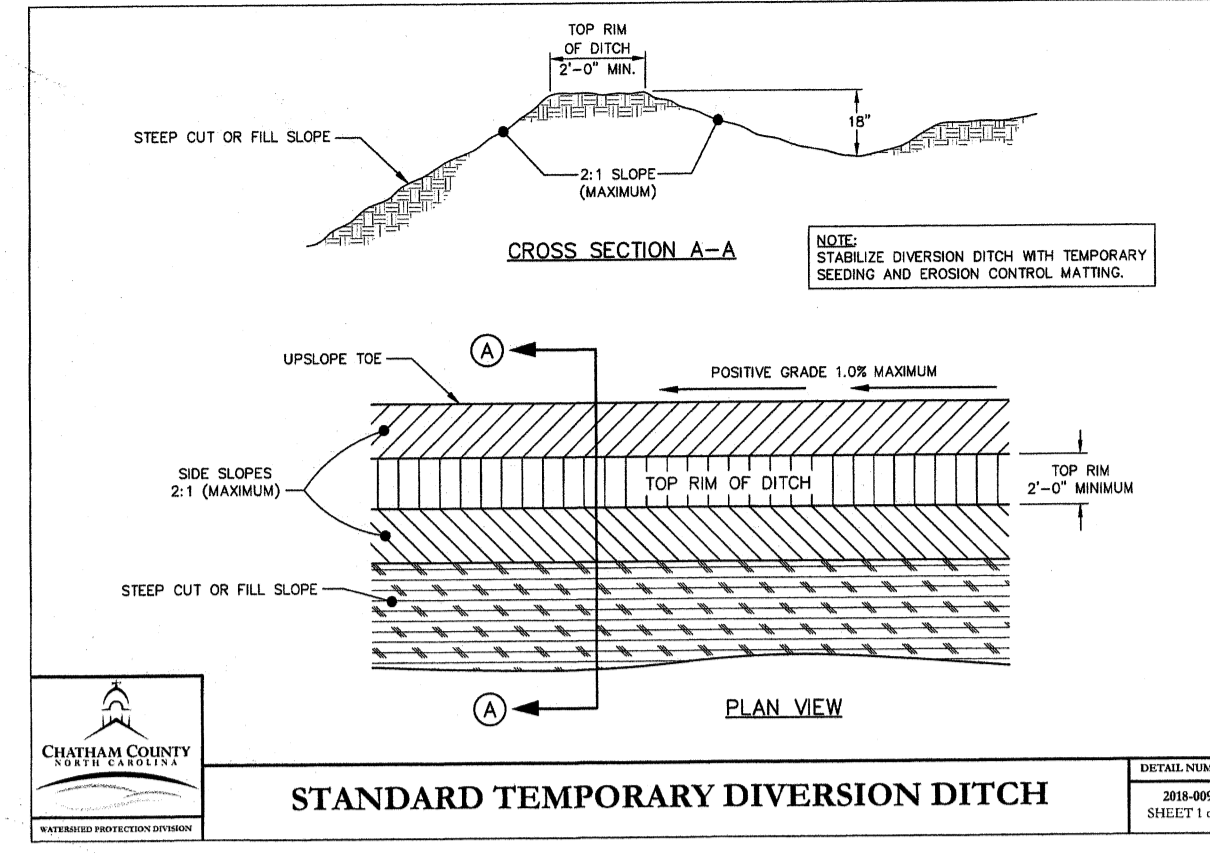
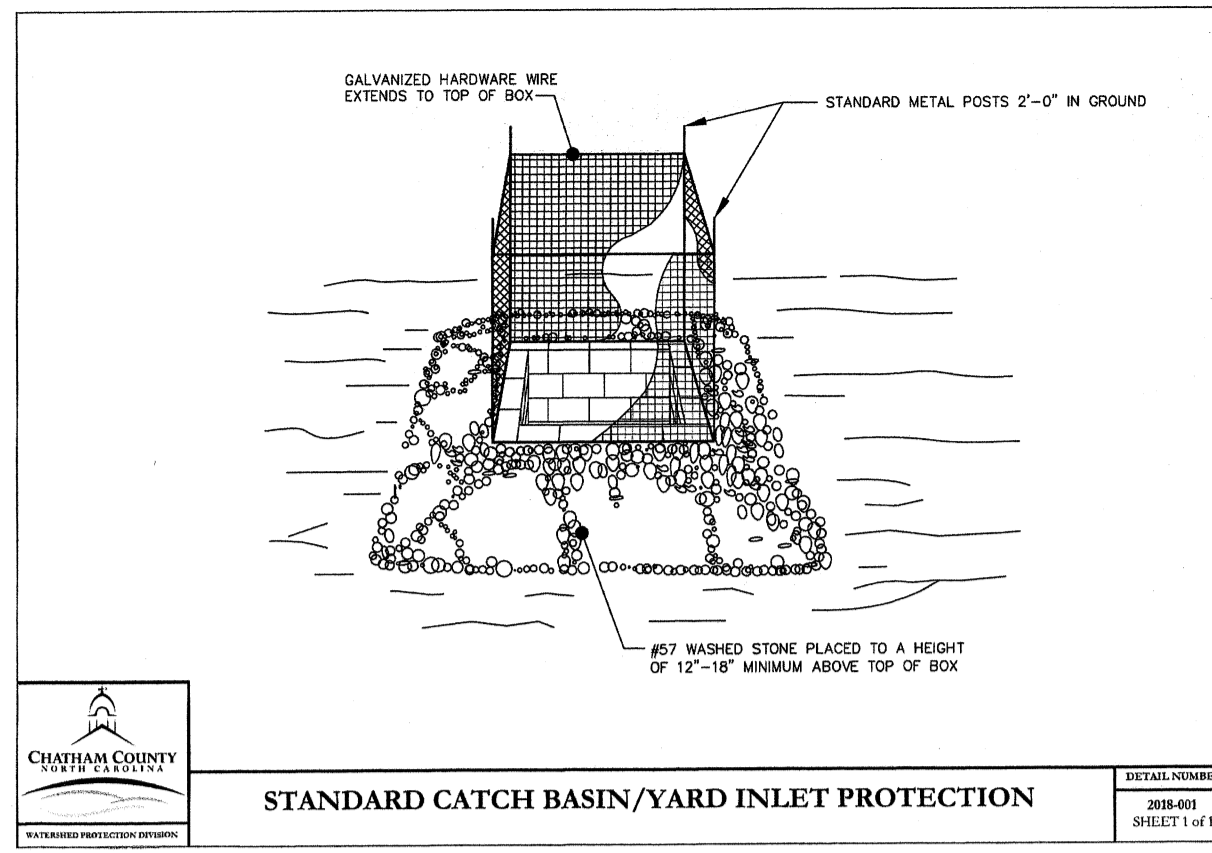
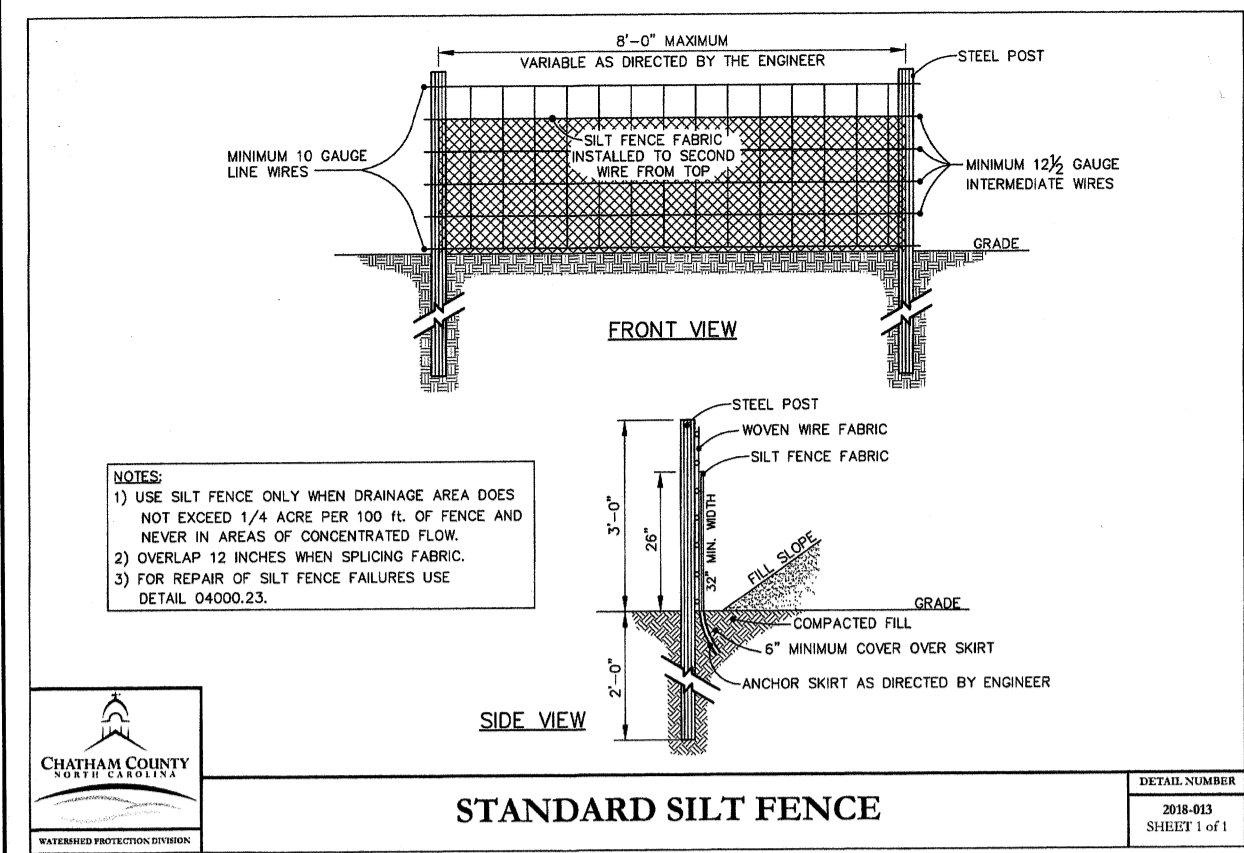
**BLAKELY DESIGN GROUP**  
Site Planning  
Landscape Architecture  
970 Expedition Place, Suite 105, Raleigh, North Carolina 27615  
Telephone (919) 970-1886 Fax (919) 970-0752  
E-Mail: tolor@blakelydesign.com

EROSION PLAN - PHASE 2 FINAL GRADING

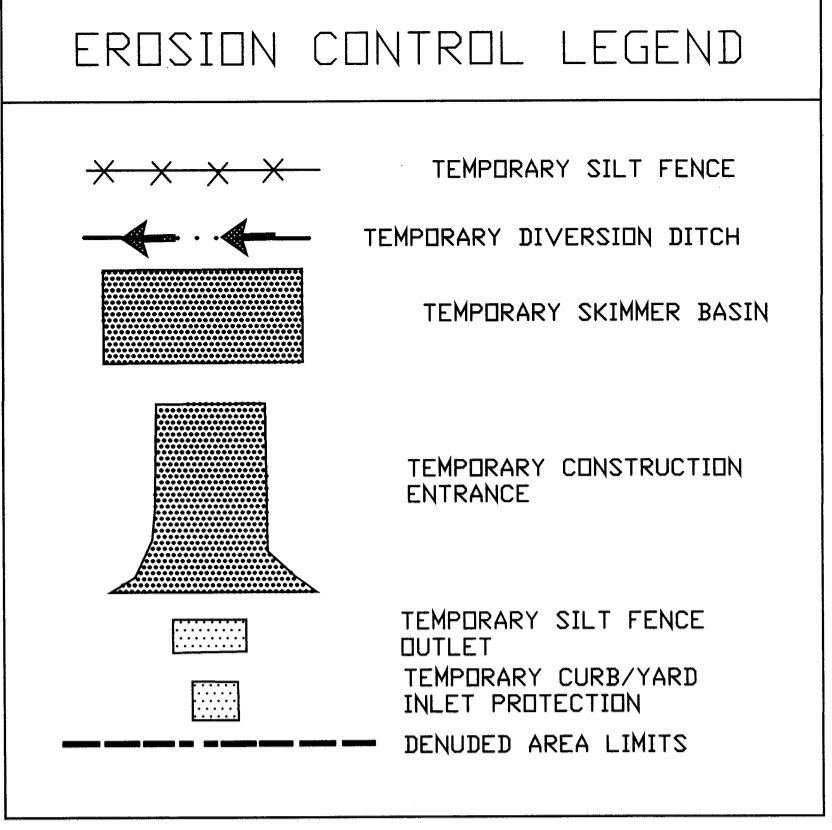
# AMERICAN SELF STORAGE

6193 U.S.64, PITTSBORO, N.C.

DATE SEPT 30,17  
SCALE 1"=30'  
DRAWN BTB  
JOB NO.  
REVISIONS  
11-17 IND REVISED STAFF COMMENTS  
1-11-18 IND REVISED STAFF COMMENTS  
3-23-18 IND REVISED FOR COUNTY



- CONSTRUCTION SEQUENCE**
- PHASE 1
1. Obtain a land disturbing permit. Schedule a preconstruction conference with the Conservation Inspector after permits are issued & before any work is started. 919-542-9268
  2. For Phase 1 Erosion Control per sheet C5.0, clear only as necessary to install erosion control devices. Install gravel construction entrance, silt fences, diversion ditches & temp. skimmer basins protection as shown on the approved plan.
  3. Call 919-542-9268 for an on site inspection by the Conservation Inspector.
  4. Begin clearing and grubbing. Maintain devices as needed. Begin rough grading site to indicated grades. Protect inlets per detail on sheet C5.2 during construction.
  5. Inspect and maintain site once a week and after every rain event. Inspection & maintenance to include silt fence, diversion ditch, construction entrance, skimmer basin & inlet protection.
  6. Stabilize site as areas are brought up to finish grade with vegetation, and paving. Seed and mulch denuded areas within fourteen (14) calendar days, of any phase of completion of construction or if site is idle for 14 calendar days or more. SEE DWG STABILIZATION CHART ON THIS SHEET.
- PHASE 2
7. At Phase 2 Erosion Control, remove diversion ditches as site is brought to finished grade. Begin to gravel, pave & construct buildings. Once site has been brought to final grade, install yard inlets & mulch denuded areas within final inspection.
  8. After site is completely stabilized, clean out skimmer basins and dispose of unsuitable soil properly. Begin construction of bioretention basin.
  9. When construction is complete and all areas are stabilized completely, call 919-542-9268 for an inspection.
  10. If site is approved, remove temporary silt fence & seed out or stabilize any resulting bare areas or pave any resulting bare areas.
  11. Have Site Engineer prepare As-Built Plans & Certifications and submit these to the Conservation Inspector four (4) days prior to calling in for Final Inspection.
  12. When vegetation has been established and As-Built Plans have been approved, call for Final Site Inspection by the Conservation Inspector, 919-542-9268.



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Species	Rate (lb/acre)	Dates
Rye (grain)	120	January 1 - May 1
Annual lespedeza (Kobe)	50	
German millet	40	May 1 - August 15
Rye (grain)	120	August 15 - December 31

**Soil Amendments**  
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

**Mulch**  
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disc with blades set nearly straight can be used as a mulch anchoring tool.

**Maintenance**  
Refer to the site plan for seeding and mulching immediately following erosion or other damage.

**TEMPORARY SEEDING/MULCHING SPECIFICATIONS**

ALL DISTURBED AREAS	March 1 - August 31	September 10 - February 28
500# Tall Fescue	500# Tall Fescue	500# Tall Fescue
100# Centipede	100# Centipede	100# Centipede
250# Bermudagrass (hulled)	35# Bermudagrass (unhulled)	35# Bermudagrass (unhulled)
5000# Fertilizer	5000# Fertilizer	5000# Fertilizer
4000# Limestone	4000# Limestone	4000# Limestone

**PERMANENT SEEDING/MULCHING SPECIFICATIONS**

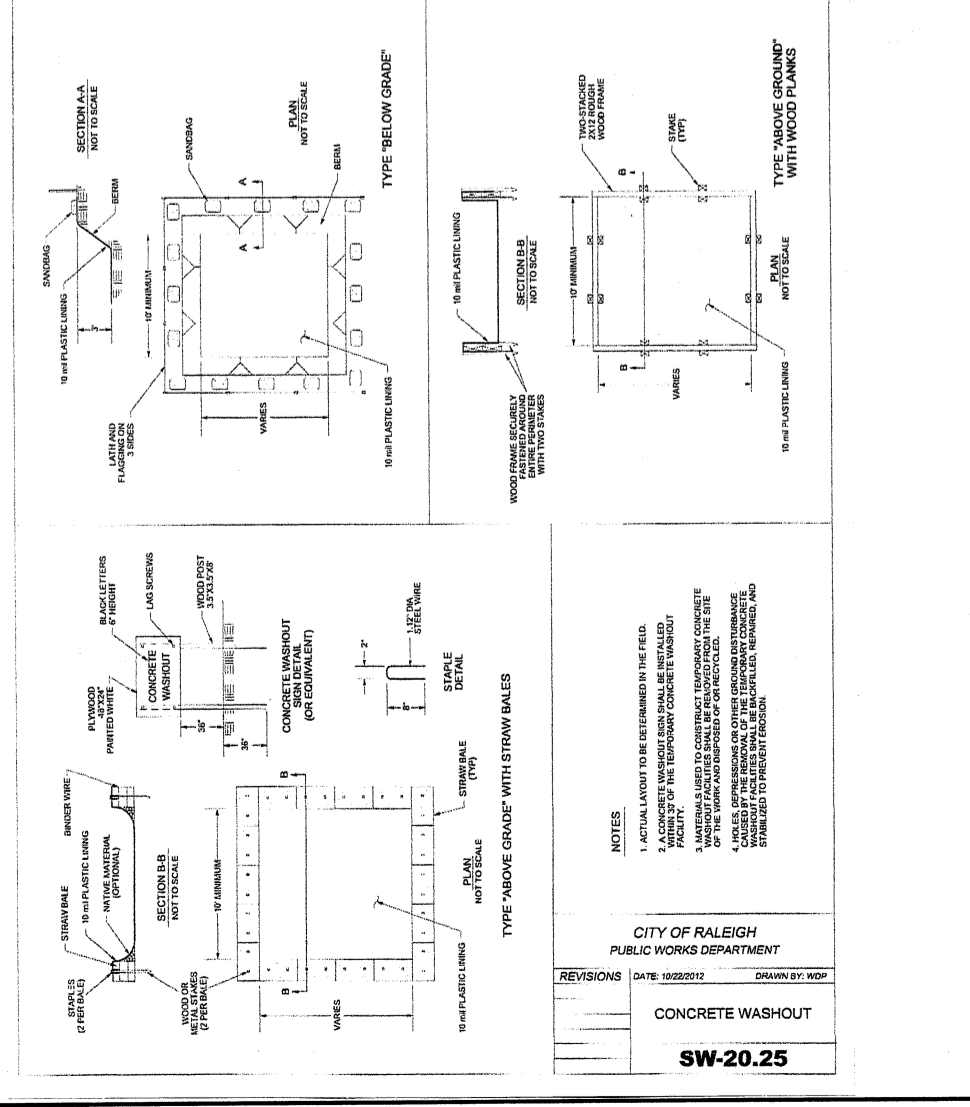
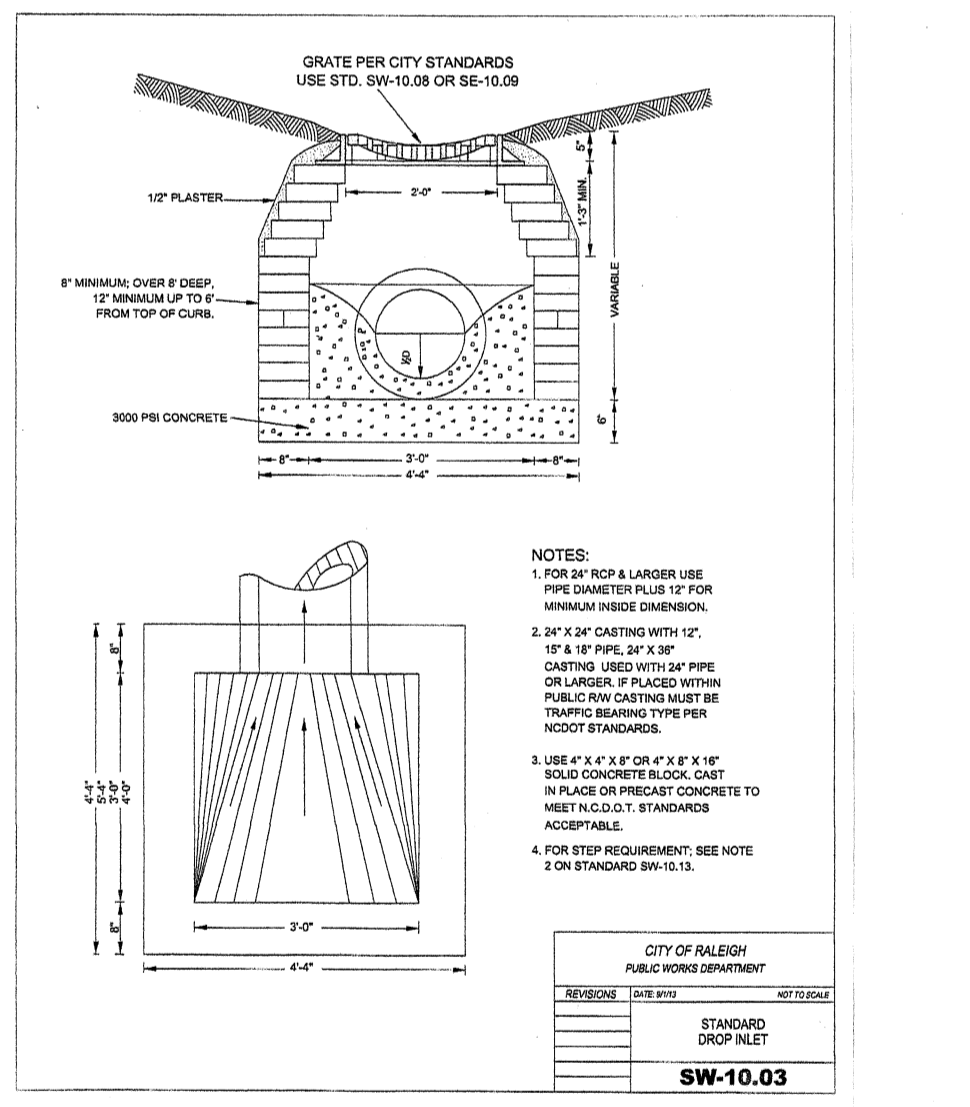
ALL DISTURBED AREAS	March 1 - August 31	September 10 - February 28
750# Tall Fescue	750# Tall Fescue	750# Tall Fescue
250# Bermudagrass (hulled)	250# Bermudagrass (unhulled)	250# Bermudagrass (unhulled)
5000# Fertilizer	5000# Fertilizer	5000# Fertilizer
4000# Limestone	4000# Limestone	4000# Limestone

On cut and fill slopes 2:1 or steeper Centipede shall be applied at the rate of 5 lb/acre and add 20# of Steier Lespedeza from January 1 - December 31.

Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

**NEW STABILIZATION TIMEFRAMES**  
(Effective Aug. 3, 2011)

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.



**BLAKELY DESIGN GROUP**  
Site Planning  
Landscape Architecture

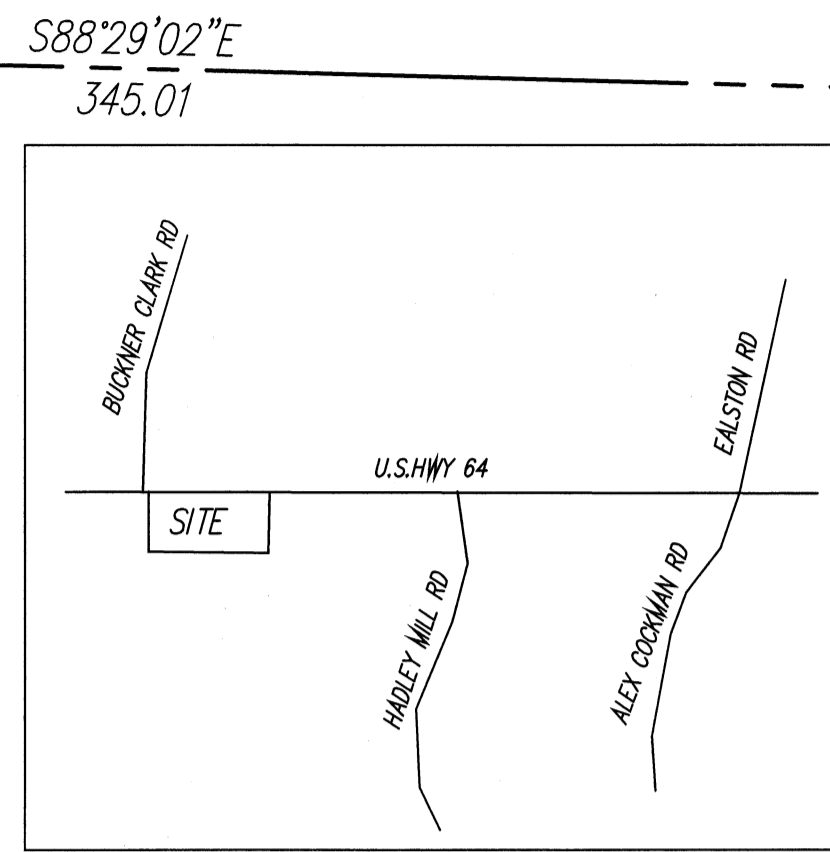
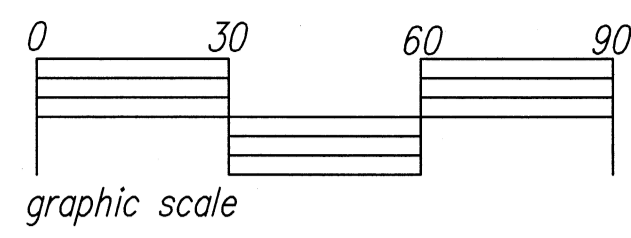
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**AMERICAN SELF STORAGE**  
6193 U.S.64, PITTSBORO, N.C.

EROSION DETAILS

DATE: AUG 31, 17  
SCALE: 1"=30'  
DRAWN: BTB  
JOB NO.:  
REVISIONS: 3-15-18 btb REVISD

SHEET: C5.2



VICINITY MAP

**SITE DATA**

TOTAL LOT SIZE	451,440 S.F.	10.36 ACRES
ZONE	IND-1 & R-1	
EXISTING USE	SELF STORAGE	
PROPOSED USE	SELF STORAGE	
EXISTING BUILDING SIZE (3 existing buildings)	24,000 S.F.	
PROPOSED ADDITIONAL BUILDING SIZE (6 new buildings)	96,000 S.F.	
TOTAL BUILDING SIZE	120,000 S.F.	
PARKING REQUIRED (1 space per 3 employees - 0 employees)	1 SPACE	
PARKING PROVIDED (NO EMPLOYEES AT THIS SITE)	1 SPACE	
EXISTING IMPERVIOUS AREA	148,104 S.F. (3.40 AC.)	32.8 %
PROPOSED IMPERVIOUS AREA	46,400 S.F. (1.07 AC.)	10.3 %
TOTAL IMPERVIOUS AREA	194,504 S.F. (4.46 AC.)	43.1 %
DENUDED AREA		4.16 AC.
CRATHAM COUNTY AKPAR		60115
CHATHAM COUNTY P.I.N.		9712-41-5557.000
DEVELOPER	AMERICAN SELF STORAGE, INC.	
	805 H AND R DRIVE	
	KNIGHTDALE, N. C. 27545	
	(919) 444-9014	

- NOTES**
- BOUNDARY AND TOPOGRAPHIC & AS-BUILT INFORMATION TAKEN FROM MAP PREPARED BY STEVE PUCKETT LAND SURVEYORS AND DATED FEBRUARY 2006.
  - ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT CHATHAM COUNTY STANDARDS, SPECIFICATIONS AND DETAILS.
  - CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR CONSTRUCTION SHOWN ON THESE PLANS.
  - ALL DIMENSIONS AND STAKING POINT LOCATIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
  - ANY WORK SHOWN ON THESE PLANS THAT IS IN CONFLICT WITH THE CHATHAM COUNTY ZONING AND SETBACK REQUIREMENTS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT FOR ADJUSTMENT.
  - LOCATIONS FOR EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAME.
  - CONTRACTOR SHALL AT ALL TIMES MAINTAIN ADEQUATE SAFETY HEADGEAR, ACTIVITIES, AND BARRICADES FOR THE PROTECTION OF ALL PERSONS ON OR ABOUT THE LOCATION OF THE SITE.
  - CONTRACTOR SHALL PAINT SYMBOLS, INSTALL SIGNS AND CONSTRUCT NECESSARY SIGNS, AS PER THE NORTH CAROLINA STATE BUILDING CODE, FOR ALL HANDICAP PARKING SPACES AS NOTED ON PLAN.
  - CONTRACTOR SHALL DELINEATE PARKING SPACES, HANDICAP SYMBOLS, DIRECTIONAL ARROWS, LANE MARKINGS, "STOP" MESSAGES, ETC. AS SHOWN ON THE PLANS WITH TRAFFIC MARKING PAINT ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. USE WHITE PAINT.
  - CALL NORTH CAROLINA ONE CALL CENTER @ 1-800-632-4349 BEFORE DIGGING.
  - RESTORED AREA IS 4.16 ACRES.
  - THIS SITE IS NOT WITHIN A 100 YARD FLOODWAY FRINGE AREA.
  - HOURS OF OPERATION ARE: MONDAY - FRIDAY 7:00 am - 6:00pm & SATURDAY 7:00 am - 6:00 pm
  - NUMBER OF EMPLOYEES - 0



TOTAL AREA  
451,440 sq. ft.  
10.36 acres

CAROLINA POWER & LIGHT CO  
DB 819/848  
PIN 9712-51-4508.000  
ZONING IND-L

TROY M. HOWARD ENTERPRISES, LLC  
DB 1415/738  
PB 12/77  
PIN 9712-40-9070.000  
ZONING IND-L

**STORM DRAINAGE DATA** Q10- I=7.22 in/hr; Q2-I=5.76 in/hr; Q1-I=4.61 in/hr; Q25- I= 8.19 in/hr

BASIN #	TOP	INV. IN	INV. OUT	PIPE NO.	PIPE SIZE	PIPE SLOPE	DRAINAGE AREA	"C"	Q1	Q2	Q10	Q25	TOTAL Q25
Y.I.# 1	435.0	429.0	421.0	520'	36" HDPE	1.54%	9.1 AC.	.75	31.46	39.31	49.28	55.90	55.90
FES #2													55.90
Y.I.# 3	432.1	428.0	200'	24" HDPE	2.0 %	1.07 AC.	.95	4.69	5.86	7.34	8.32	8.32	8.32
Y.I.# 4	428.8	425.4	114'	30" HDPE	0.6 %	.89 AC.	.95	3.90	4.87	6.10	6.92	6.92	15.24
Y.I.# 5	429.5	424.72	424.6	97'	30" HDPE	0.6 %	.24 AC.	.95	1.05	1.31	1.65	1.87	17.11
FES #6													17.11

**POST-DEV. DRAINAGE WORKSHEET**

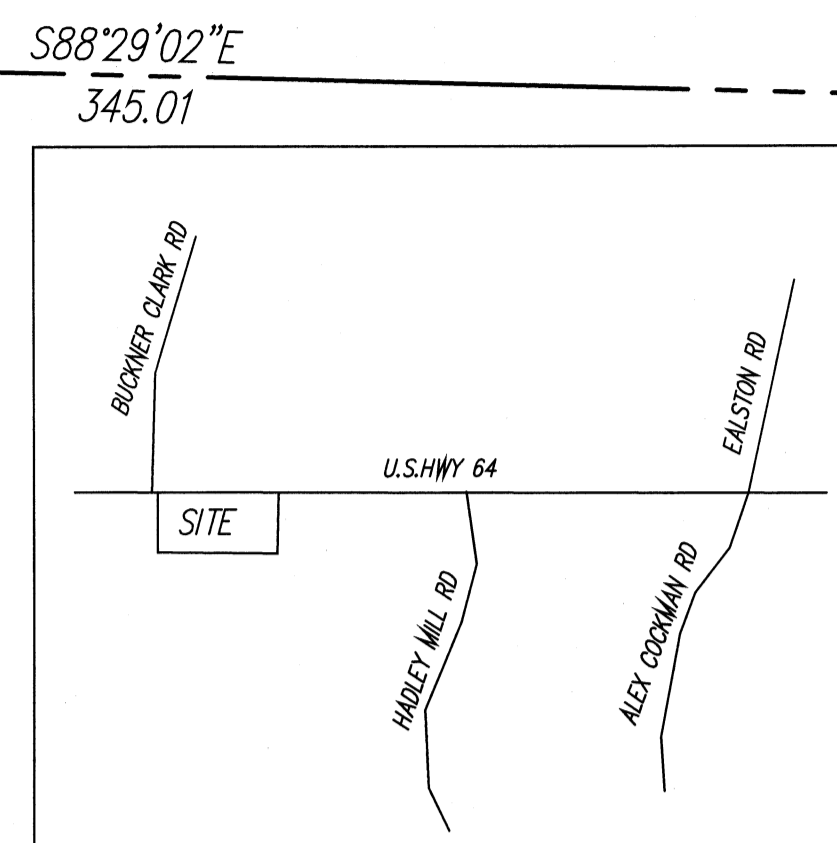
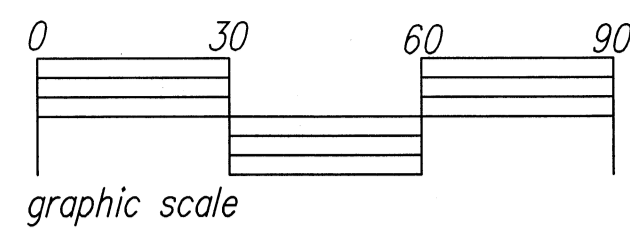
MICHAEL L. DUCKWALL  
DB 517/247  
PIN 9712-51-0185.000  
ZONING IND-L



**BLAKELY DESIGN GROUP**  
Landscape Architecture Site Planning  
700 Exposition Place, Suite 106, Raleigh, North Carolina 27616  
Telephone (919) 870-1888 Fax (919) 870-0752  
E-Mail: taylor@blakelydesign.net

**GRADING & DRAINAGE PLAN**  
**AMERICAN SELF STORAGE**  
6193 U.S.64, PITTSBORO, N.C.

DATE	SEPT 30,17
SCALE	1"=30'
DRAWN	BTB
JOB NO.	
REVISIONS	1. AS NOTED, MAKE CORRECTIONS TO THE PLAN
SHEET	C2.0

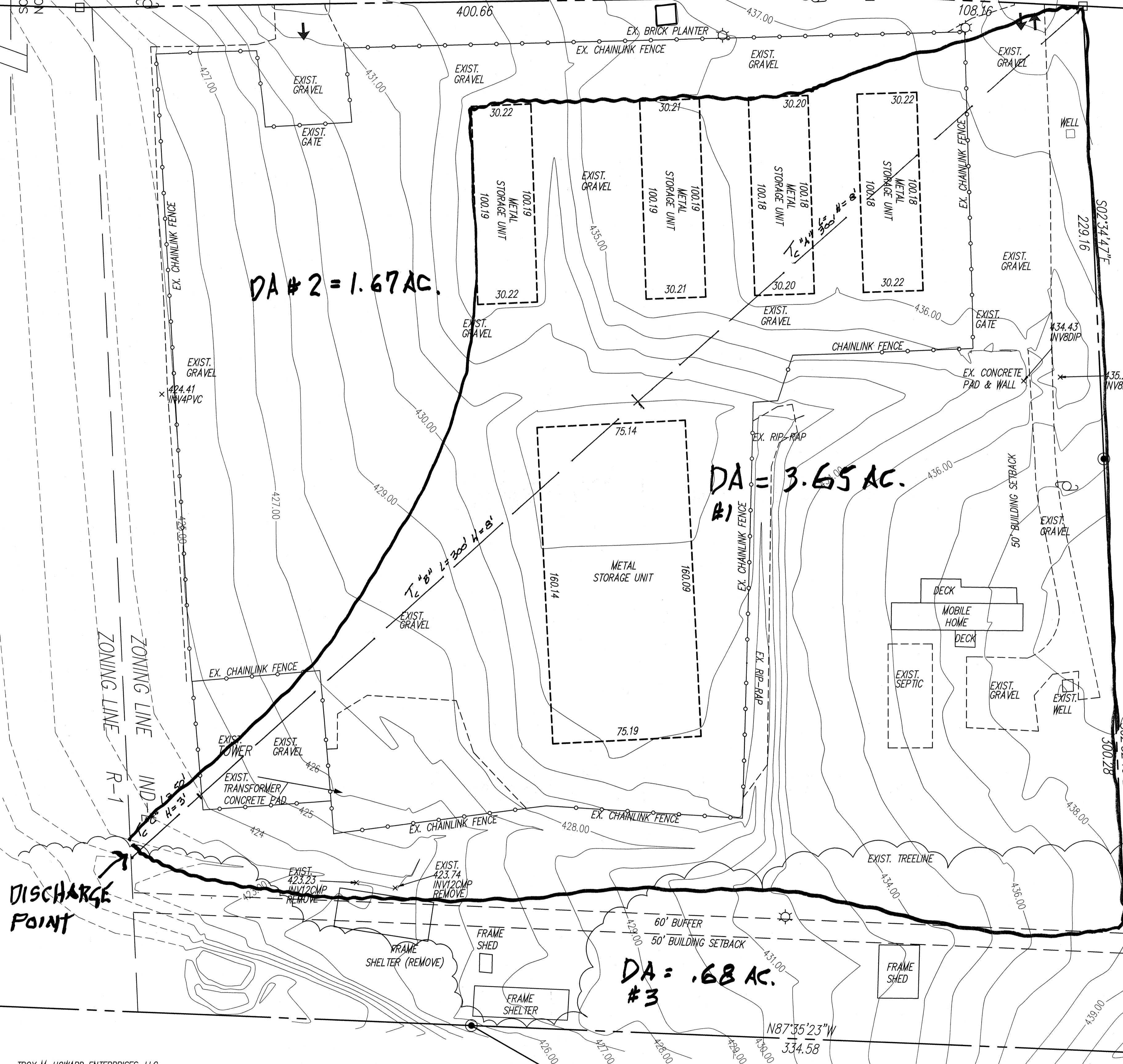


VICINITY MAP

TOTAL AREA  
451,440 sq. ft.  
10.36 acres

U.S. HIGHWAY 64  
(EXISTING VARIABLE WIDTH PUBLIC R/W)

SCALE: 1" = 30'  
NC GRID NAD '83/01



CAROLINA POWER & LIGHT CO  
DB 819/848  
PIN 9712-51-4508.000  
ZONING IND-L

DISCHARGE POINT

DA = .68 AC.  
#3

DA # 2 = 1.67 AC.

DA = 3.65 AC.  
#1

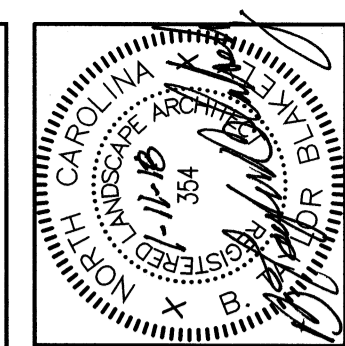
N87°35'47"W  
571.38

N87°35'23"W  
334.58

TROY M. HOWARD ENTERPRISES, LLC  
DB 1415/738  
PB 12/77  
PIN 9712-40-9070.000  
ZONING IND-L

MICHAEL L. DUCKWALL  
DB 517/247  
PIN 9712-51-0185.000  
ZONING IND-L

PRE-DEV. DRAINAGE  
WORKSHEET



BLAKELY DESIGN GROUP  
Landscape Architecture Site Planning

EXISTING CONDITIONS PLAN

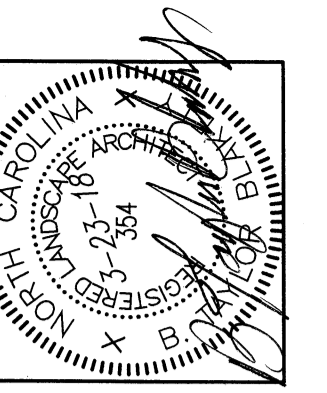
AMERICAN SELF STORAGE

6193 U.S.64, PITTSBORO, N.C.

DATE	SEPT 30,17
SCALE	1"=30'
DRAWN	BTB
JOB NO.	
REVISIONS	

SHEET  
EX.0

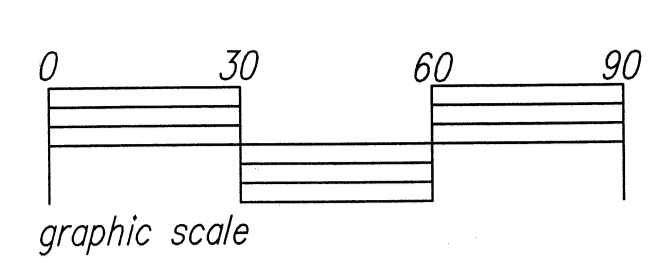
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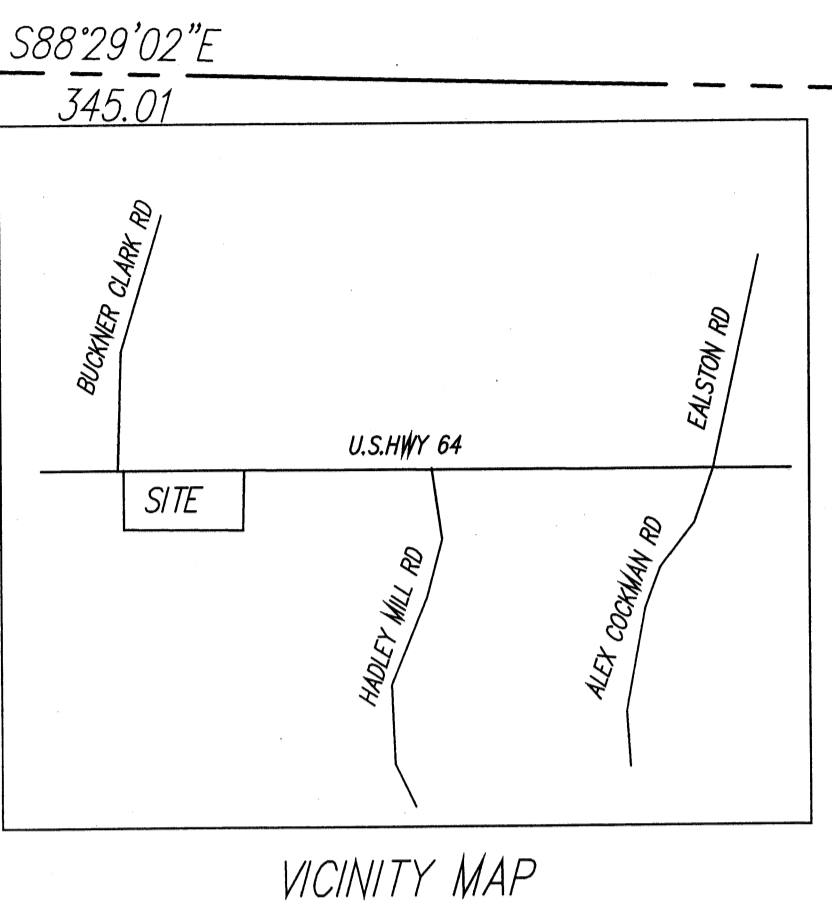
**BLAKELY DESIGN GROUP**  
Landscape Architecture Site Planning

**AMERICAN SELF STORAGE**  
6193 U.S.64, PITTSBORO, N.C.

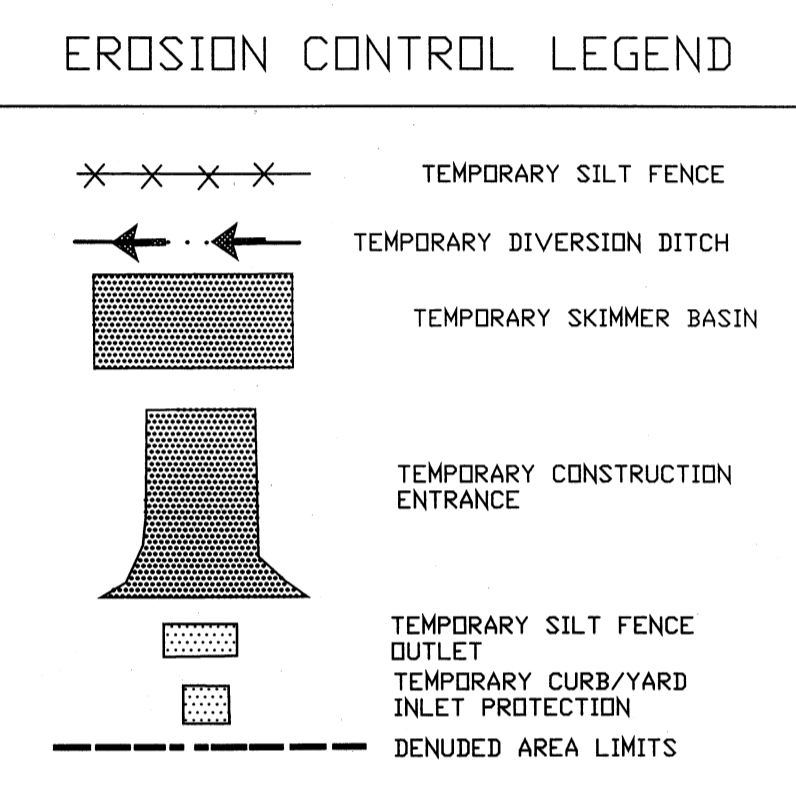
DATE SEPT 30, 17  
SCALE 1"=30'  
DRAWN BTB  
JOB NO.  
REVISIONS  
11-1-17 btb REVISED STAFF COMMENTS  
1-11-18 btb REVISED STAFF COMMENTS  
3-23-18 btb REVISED PER COUNTY  
SHEET  
C5.0



U.S. HIGHWAY 64  
(EXISTING VARIABLE WIDTH PUBLIC R/W)



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  - CONTRACTOR SHALL DELINEATE PARKING SPACE LINES, HANDICAP SYMBOLS, DIRECTIONAL ARROWS, LANE MARKINGS, STOP MESSEGES, ETC. AS SHOWN ON THE PLANS WITH TRAFFIC MARKING PAINT ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. USE WHITE PAINT.
  - CALL NORTH CAROLINA ONE CALL CENTER # 800-662-4949 BEFORE DIGGING.
  - DISTURBED AREA IS 4.30 ACRES.
  - THIS SITE IS NOT WITHIN A 100 YEAR FLOODWAY FRINGE AREA.
  - HOURS OF OPERATION ARE MONDAY - FRIDAY 7:00 am - 8:00pm & SATURDAY 7:00 am - 8:00 pm
  - NUMBER OF EMPLOYEES = 0

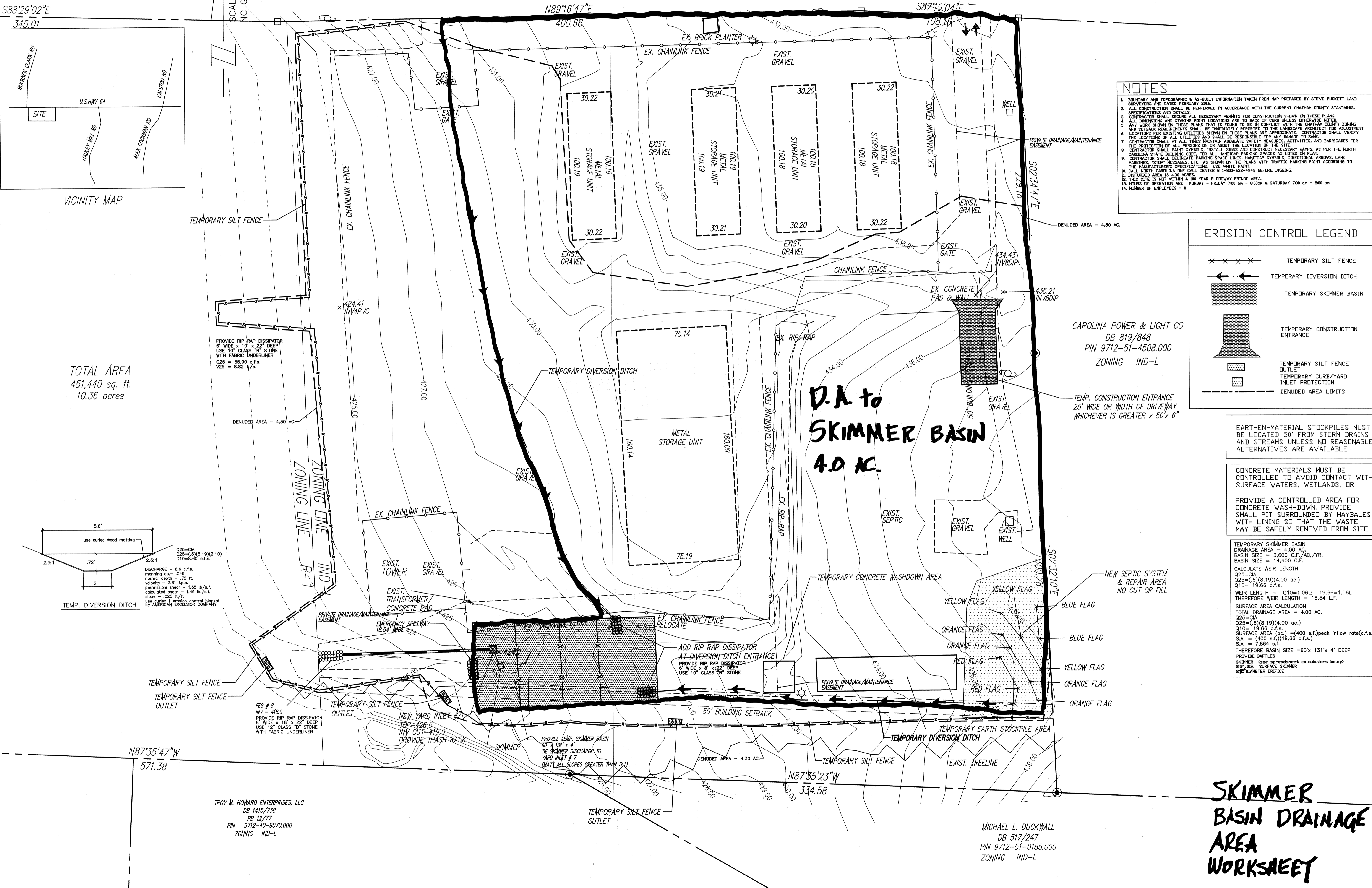


EARTHEN-MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE

CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR

PROVIDE A CONTROLLED AREA FOR CONCRETE WASH-DOWN. PROVIDE SMALL PIT SURROUNDED BY HAYBALES WITH LINING SO THAT THE WASTE MAY BE SAFELY REMOVED FROM SITE.

**TEMPORARY SKIMMER BASIN**  
DRAINAGE AREA = 4.00 AC.  
BASIN SIZE = 3,600 C.F./AC./YR.  
BASIN SIZE = 14,400 C.F.  
CALCULATE WEIR LENGTH  
Q25= (6)(8.19)(4.00 ac.)  
Q10= 19.66 c.f.s.  
WEIR LENGTH = Q10=1.06L; 19.66=1.06L  
THEREFORE WEIR LENGTH = 19.54 L.F.  
SURFACE AREA CALCULATION  
TOTAL DRAINAGE AREA = 4.00 AC.  
Q25= (6)(8.19)(4.00 ac.)  
Q10= 19.66 c.f.s.  
SURFACE AREA (ac.) = (400 s.f.)/peak inflow rate(c.f.s.)  
S.A. = (400 s.f.)/19.66 c.f.s.)  
S.A. = 7,884 s.f.  
THEREFORE BASIN SIZE = 60'x 131'x 4' DEEP  
PROVIDE BAFFLES  
SKIMMER (see spreadsheet calculations below)  
25" DIA. SURFACE SKIMMER  
2" DIAMETER DUCTILE



TOTAL AREA  
451,440 sq. ft.  
10.36 acres

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ZONING IND-L

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ZONING IND-L

**SKIMMER BASIN DRAINAGE AREA WORKSHEET**

C:\Documents and Settings\taylor\My Documents\Robert Kapp\Pittsboro West\HWY 64 WEST SITE PLAN 1-8-18.dwg, 3/23/2018 2:05:22 PM, Xerox 6204 Wide Format