THE BARN OF CHAPEL HILL - EVENT CENTER
MORROW MILL ROAD
ORANGE COUNTY, NC
CLASS "B" - SPECIAL USE PERMIT

DRAWING INDEX

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A302	BUILDING ELEVATIONS
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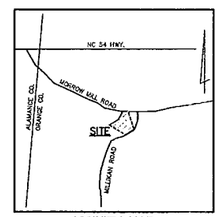

VICINITY MAP
NOT TO SCALE

DEVELOPMENT INFORMATION

1. PROJECT ZONING: AR
2. PARCEL PIN NO. 9729507168
3. NET LAND AREA: 21.987 ACRES (957,754 SF)
4. PROPOSED OCCUPANCY CAPACITY: 250 PEOPLE
5. MAXIMUM ALLOWABLE FLOOR AREA: 84,282 SF
6. PROPOSED FLOOR AREA: 4,200 SF
7. REQUIRED SETBACKS: STREET = 40'; SIDE & REAR = 20'
8. SOLID WASTE DISPOSAL IS HANDLED BY PRIVATE COLLECTION
9. THERE ARE NO STREAM BUFFERS LOCATED ON THIS PROPERTY.
10. THIS PROPERTY IS LOCATED WITHIN THE HAW RIVER UNPROTECTED WATERSHED DISTRICT
11. EXISTING IMPERVIOUS SURFACE: 0 SF (0%)
12. PROPOSED IMPERVIOUS SURFACE: 1.738 ACRES (75,717 SF) (7.9%)
13. THIS PROPERTY IS NOT LOCATED WITHIN A FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA AS NOTED ON F.I.R.M. #3710972900K, DATED 2/2/2007
14. PARKING: REQUIRED = 125 SPACES (1 SPACE PER 2 SEATS)
    PROPOSED = 125 SPACES; (122 REGULAR; 3 HANDICAP)

CONSTRUCTION NOTES:

Construction Waste:

- All existing structures 500 Square Feet and larger in size shall be assessed prior to demolition to ensure compliance with the County's Regulated Recyclable Materials Ordinance (RRMO) and to assess the potential for de-construction and/or the re-use of salvageable materials.
- By Orange County Ordinance, clean wood waste, scrap metal, and corrugated cardboard present in construction or demolition waste must be recycled.
- By Orange County Ordinance, all haulers of mixed construction and demolition waste that includes any regulated recyclable materials shall be licensed by Orange County.
- Prior to any demolition or construction activity on the site the Applicant shall hold a pre-demolition/pre-construction conference with the Solid Waste staff. This may be the same pre-construction meeting held with other development/enforcement officials.

CIVIL ENGINEER

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TEL. (919) 929-1173
EMAIL: TSMITH@PPAENGINEERING.COM

OWNER

KARA & CHRIS BREWER
82 JORDAN HILLS DRIVE
CHAPEL HILL, NC 27517

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NORTH CAROLINA PROFESSIONAL SEAL 030517 ENGINEER TIMOTHY A. SMITH 10-22-15

COVER SHEET

THE BARN OF CHAPEL HILL
CLASS "B" - SUP

BINGHAM TOWNSHIP ORANGE COUNTY, N.C.

SCALE 1" =100'
DRAWN BY MKM
CHECKED BY TAS
DATE 4-2-15
PROJECT NO. 501302.02
DRAWING NO. C8505P01

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REVISIONS
1. 10-21-15: MISC. REVISIONS.

SHEET S-1
OF 12

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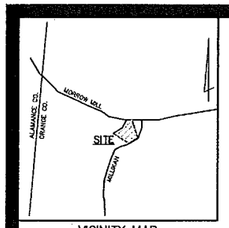
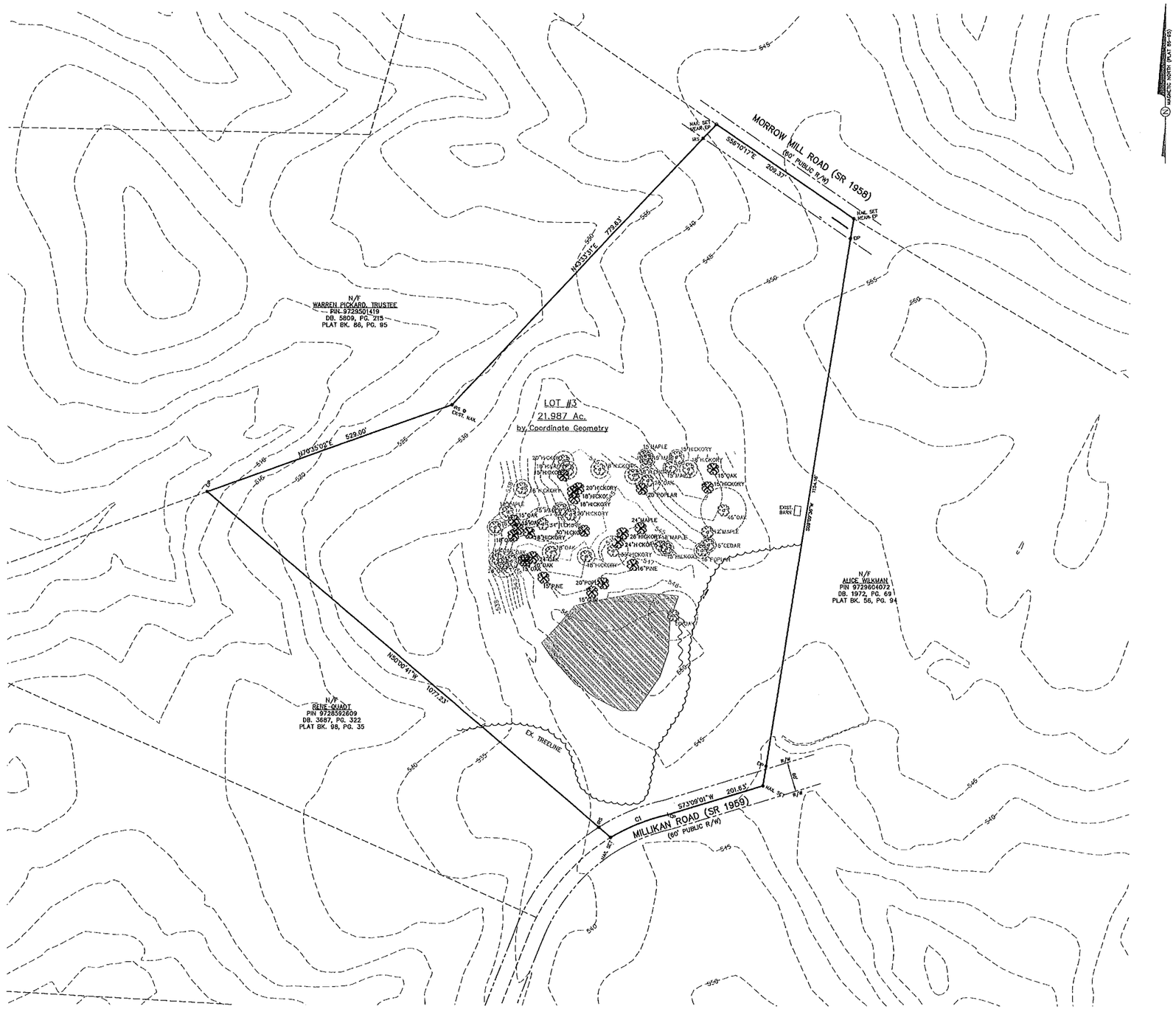


VICINITY MAP
NOT TO SCALE



LEGEND

- 15" MAPLE EXISTING TREE (TO REMAIN)
- 15" OAK EXISTING TREE (TO BE REMOVED)
- EXISTING TREELINE
- PROPERTY BOUNDARY LINE
- EXISTING TOPOGRAPHY
- AREA OF SUITABLE SOILS FOR CONVENTIONAL SEPTIC SYSTEM

CURVE TABLE					
Curve #	Length	Radius	Delta	Chord	Chord Bearing
C1	125.54'	398.88'	18°02'00"	125.03'	S68° 19' 47"W

SCALE: 1" = 100'

SCALE IN FEET
100 50 0 100 200

BOUNDARY LINE LEGEND:
EIP = EXISTING IRON PIPE
EIR = EXISTING IRON ROD
NAIL = EXISTING NAIL
IRS = IRON ROD SET
CP = COMPUTED PT. (NOTHING SET)

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NORTH CAROLINA PROFESSIONAL SEAL 030517 ENGINEER TIMOTHY A. SMITH 10-22-15

EXISTING CONDITIONS

THE BARN OF CHAPEL HILL
CLASS "B" – SUP

BINGHAM TOWNSHIP ORANGE COUNTY, N.C.

SCALE 1" = 100'
DRAWN BY MKM
CHECKED BY TAS
DATE 4-2-15
PROJECT NO. 501302.02
DRAWING NO. C850SP01

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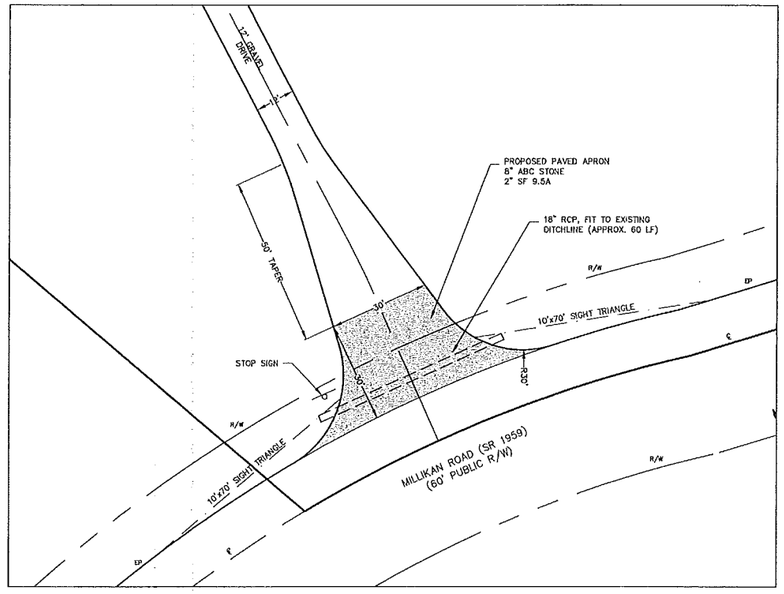
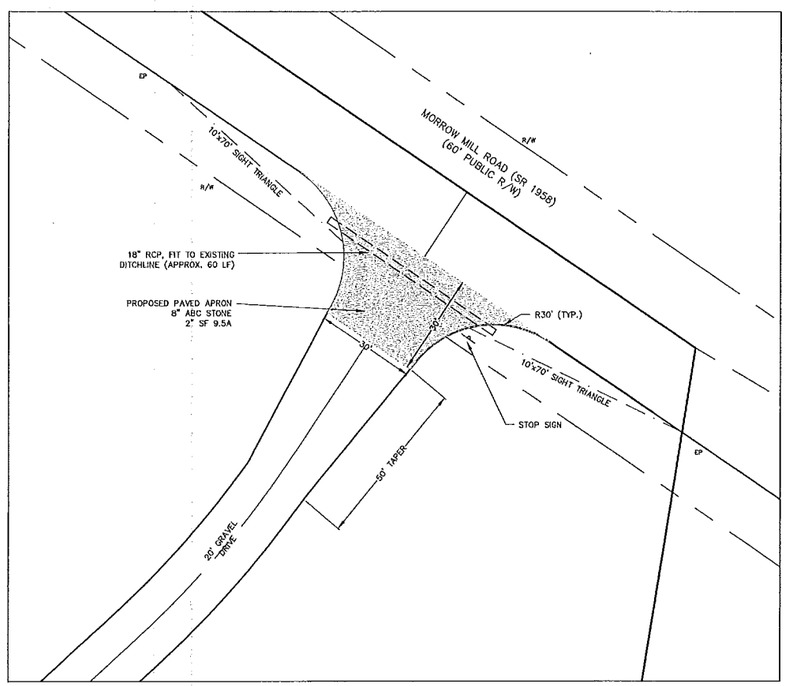
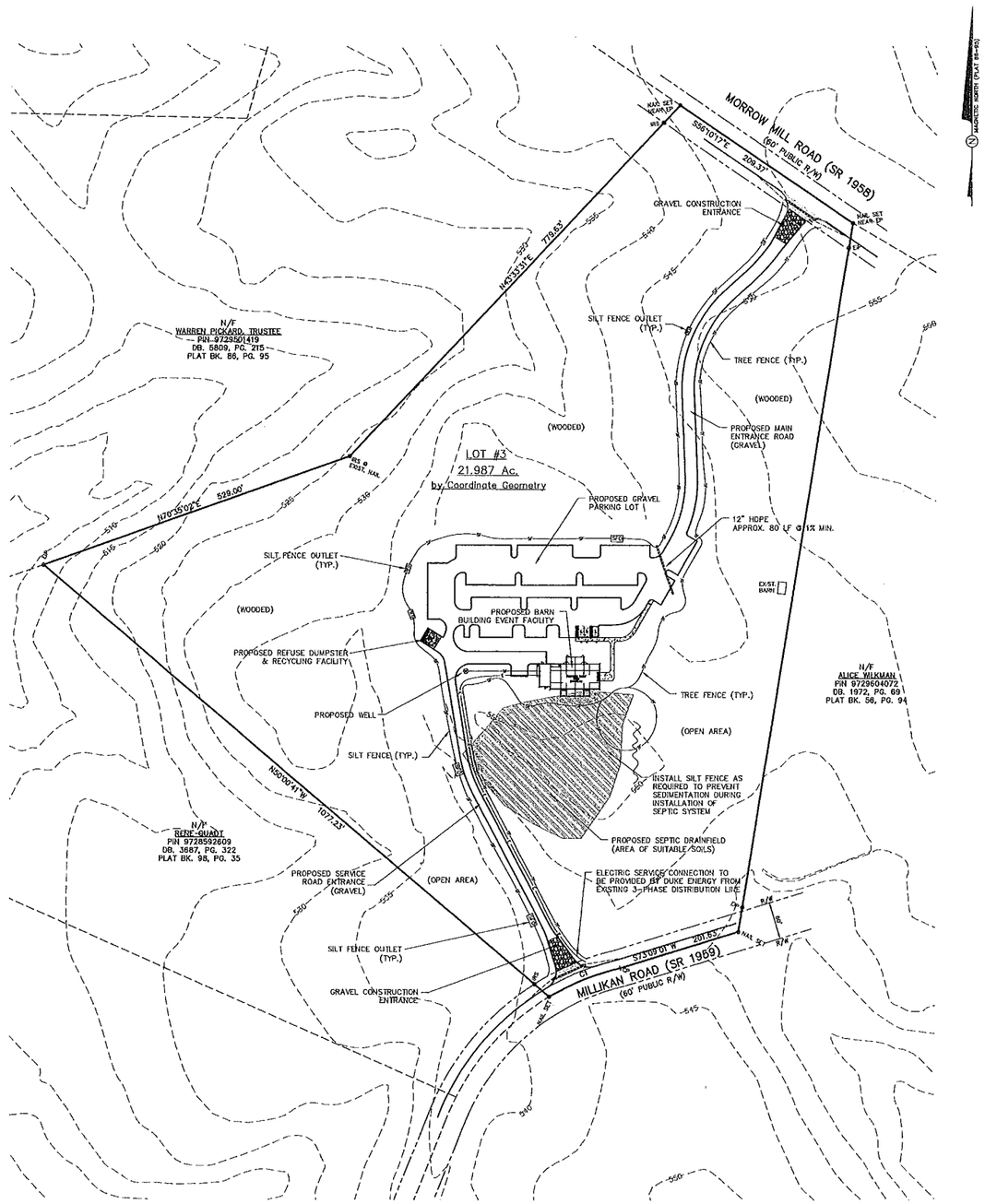


MILLIKAN ROAD DETAIL
1" = 20'



MORROW MILL ROAD DETAIL
1" = 20'



OVERALL SITE PLAN
1" = 100'

LEGEND

- PROPOSED TREE FENCE
- PROPOSED SILT FENCE WITH SILT FENCE OUTLET (SFO)
- PROPOSED WATERLINE & WELL
- PROPOSED UNDERGROUND ELECTRIC SERVICE
- GRAVEL CONSTRUCTION ENTRANCE
- AREA OF SUITABLE SOILS FOR CONVENTIONAL SEPTIC SYSTEM

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OVERALL SITE, UTILITY & EROSION CONTROL PLAN

THE BARN OF CHAPEL HILL
CLASS "B" - SUP

BINGHAM TOWNSHIP ORANGE COUNTY, N.C.

SCALE 1" =100'
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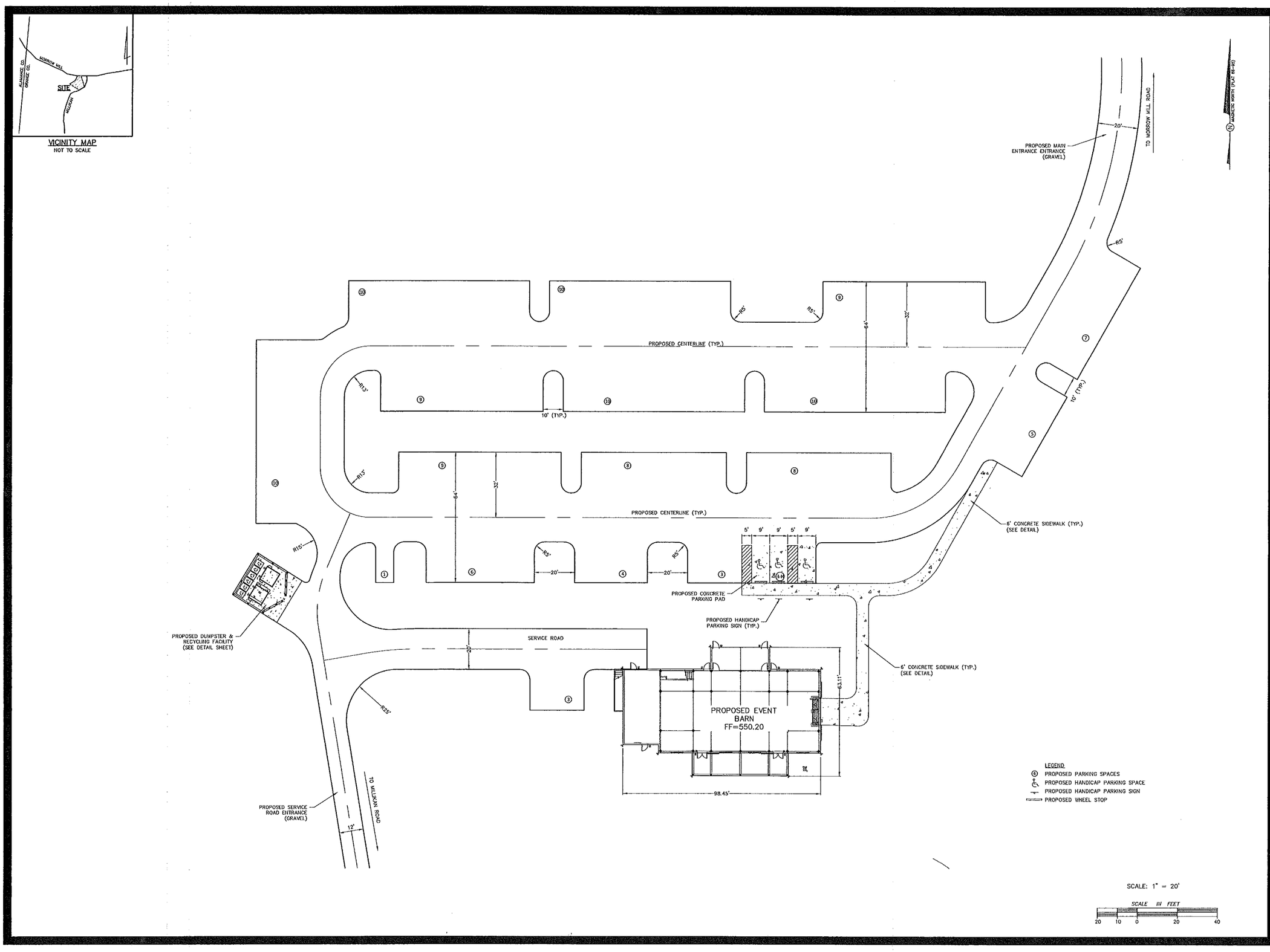

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NORTH CAROLINA PROFESSIONAL SEAL 030517 ENGINEER TIMOTHY A. SMITH 10-22-15

DETAILED SITE PLAN

THE BARN OF CHAPEL HILL
CLASS "B" - SUP

BINGHAM TOWNSHIP
ORANGE COUNTY, N.C.

SCALE 1" = 20'
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CHECKED BY TAS
DATE 4-2-15
PROJECT NO. 501302.02
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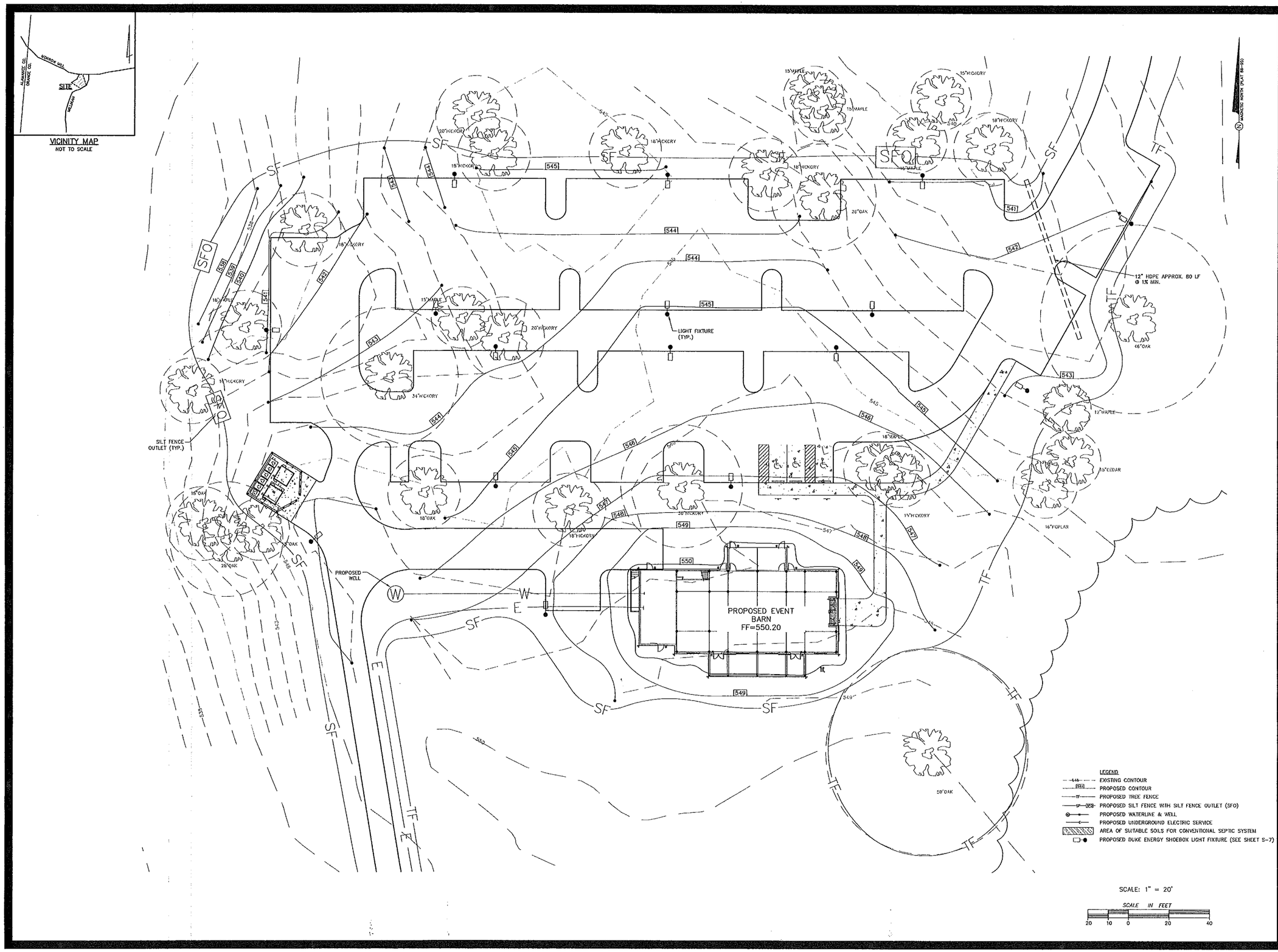

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TIMOTHY A. SEAL
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NORTH CAROLINA
ILLINOIS
10-22-15

DETAILED UTILITY, GRADING & EROSION CONTROL PLAN

THE BARN OF CHAPEL HILL
CLASS "B" - SUP

BINGHAM TOWNSHIP
ORANGE COUNTY, N.C.

SCALE 1" = 20'
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DATE 4-2-15
PROJECT NO. 501302.02
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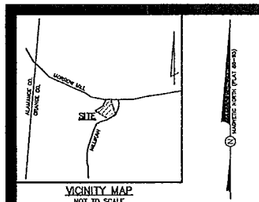
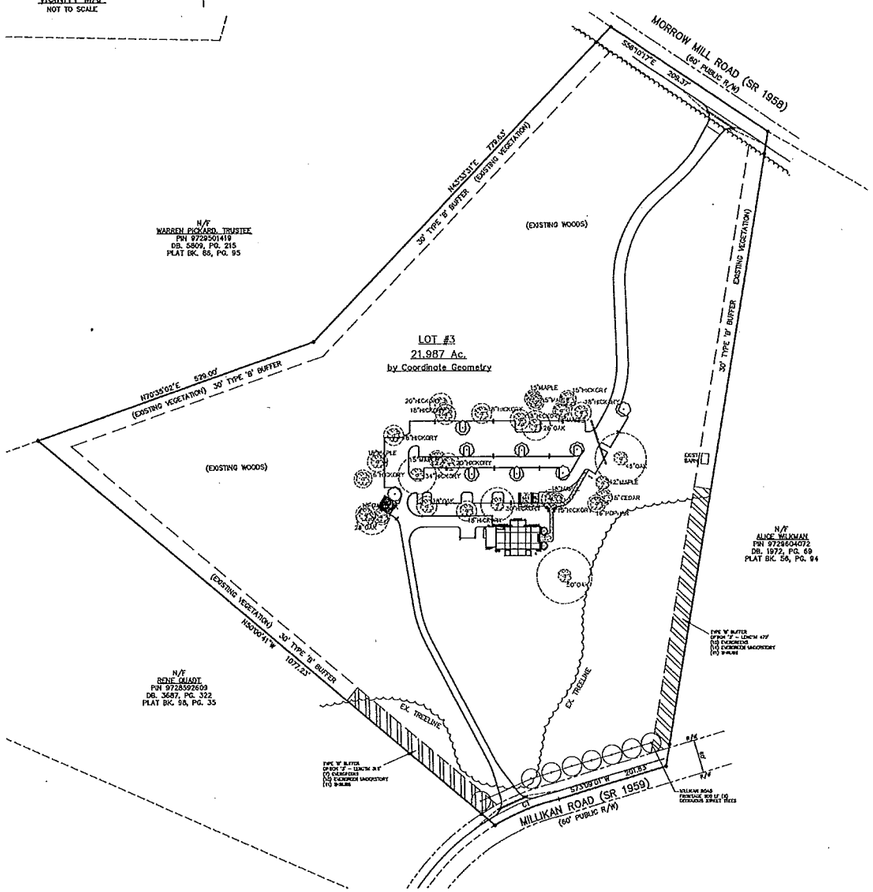


VICINITY MAP
NOT TO SCALE



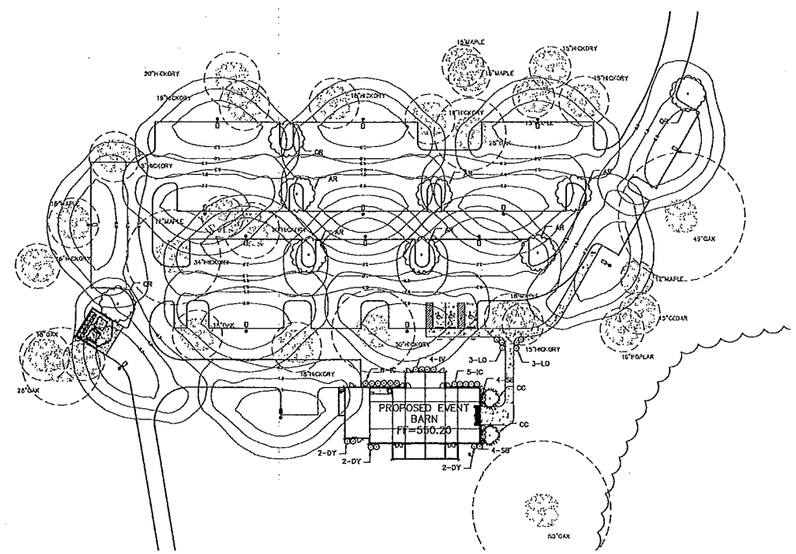
BUFFER PLANTING PLAN

SCALE: 1" = 100'
SCALE IN FEET
100 50 0 100 200

LEGEND:
PROPOSED DUKE ENERGY 8-BOSOR LIGHT FIXTURE (SEE SHEET 6-7)
PROPOSED PHOTOSEMETIC FIXTURE
EXISTING TREE (NO REMOVAL)
PROPOSED TREE WITH KEY REFERENCE
AR

PLANT SCHEDULE

KEY	SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	QTY.
QR	QUERCUS RUBRA	RED OAK	2-1/2" CAL.	B & B	3
AR	ACER RUBRUM	RED MAPLE	2-1/2" CAL.	B & B	6
BN	BETULA NIGRA	RIVER BIRCH	2" CAL.	B & B	2
IC	ILEX CORNUTA 'CARISSA'	CARISSA HOLLY	5 GAL.	CONT.	11
IV	ILEX VOMITORIA 'NANA'	DWARF YOUPON HOLLY	5 GAL.	CONT.	10
LO	LOROPETALUM CHINENSIS	LOROPETALUM	5 GAL.	CONT.	6



LIGHTING AND LANDSCAPE PLAN

SCALE: 1" = 40'
SCALE IN FEET
40 20 0 40 80

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DETAILED LANDSCAPE, LIGHTING BUFFER PLAN

THE BARN OF CHAPEL HILL
CLASS "B" - SUP

BINGHAM TOWNSHIP ORANGE COUNTY, N.C.

SCALE 1" = 20'
DRAWN BY MRDI
CHECKED BY TAS
DATE 10-15-15
PROJECT NO. 501322.02
DRAWING NO. C8505P01

No plans to be scaled. Plans that are found to be in error shall be returned to the office of origin in no less than 5 days. Failure to do so shall be a waiver of the right to claim any error or omission in the plans. Plans are the property of the office of origin and shall be returned upon request. Copyright 2015 Philip Post & Associates, Inc. Not to be used for other projects or for other purposes without written consent.

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SHEET 5-6
OF 12

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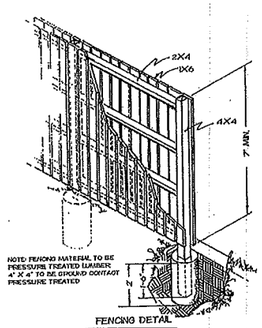
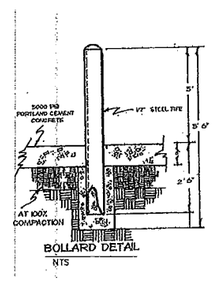
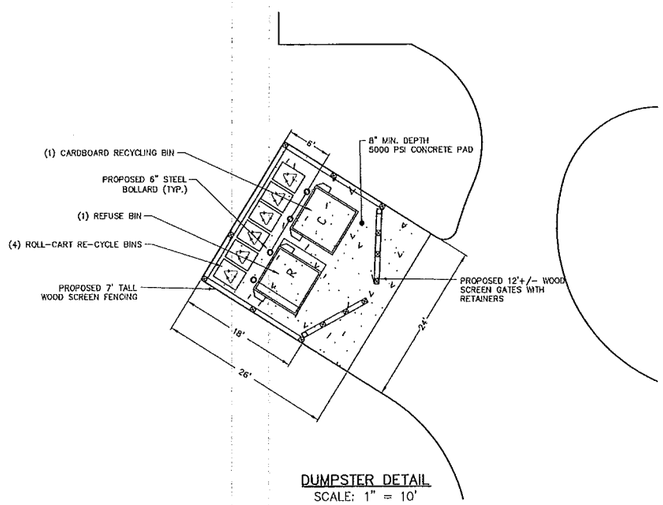


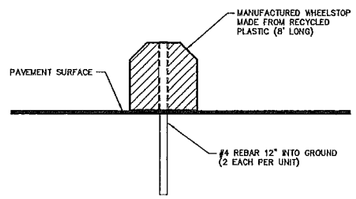
FENCING DETAIL
NTS



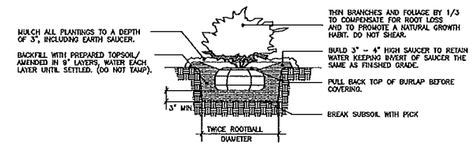
BOLLARD DETAIL
NTS



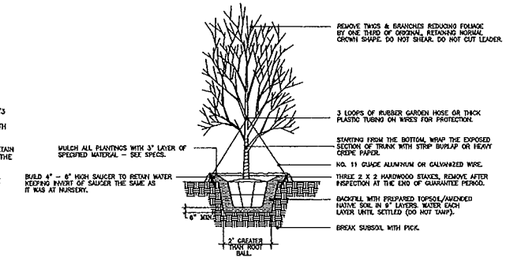
DUMPSTER DETAIL
SCALE: 1" = 10'



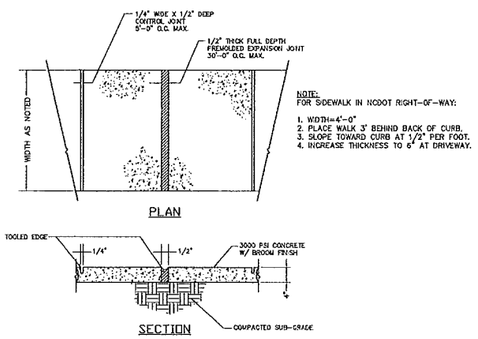
WHEEL STOP DETAIL
NTS



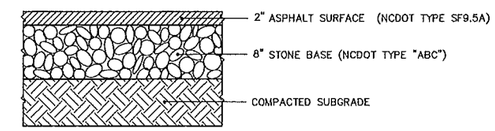
SPECIMEN SHRUB PLANTING DETAIL
NOT TO SCALE



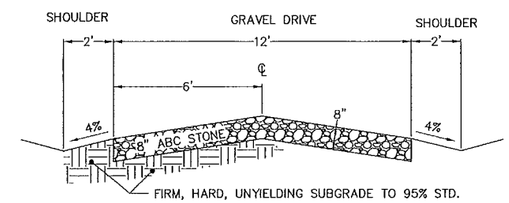
SPECIMEN TREE PLANTING & STAKING DETAIL
NOT TO SCALE



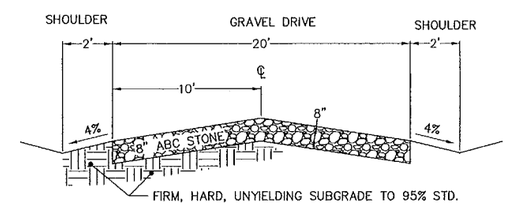
CONCRETE SIDEWALK
NTS



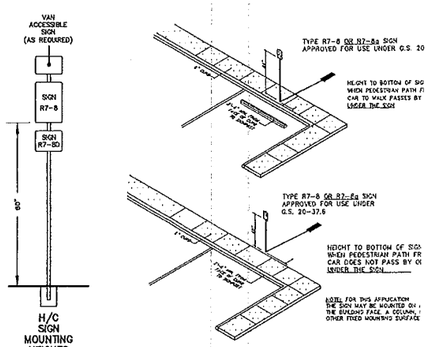
PAVED APRON DESIGN
NTS



12' GRAVEL DRIVE (ENTRANCE)
TYPICAL SECTION
NTS



20' GRAVEL DRIVE (ENTRANCE)
TYPICAL SECTION
NTS



3.4 PARKING LOTS
HEIGHT OF R7-8 OR R7-8a RESERVED PARKING SIGNS AS PRESCRIBED BY N.C. DEPT. OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SECTION 2A-23, PART II.

4.1.2- SIGNS AT ACCESSIBLE PARKING SPACES (PART I)

SIGN R7-8B
(COLORS/CORNER RADII SAME AS 4.1.2-PART I)

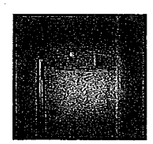
THIS SIGN MAY BE USED IN PLACE OF SIGNS R7-8/R7-8D(SEE 4.1.2-PART I)

4.1.2- SIGNS AT ACCESSIBLE PARKING SPACES (PART

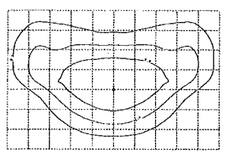
Fixture Specifications

Duke Energy.

SHOEBOX



IES Photometric file	DE25-405bx.ies
Initial Lamp lumens	27650
Light Loss Factor	0.69
Lamp Wattage	250
Lamp Source	HPS
Mtg Height	25ft
Colors	Bronze, Black Gray, Green



Grid spacing 12.5 ft.

ISO Template lines

Light Blue	2.0 FC
Green	1.0 FC
Dark Blue	0.6 FC

This report shows the ISO lux/fc lines are not based on, or in, lumens or Light Loss Factor (LLF). Values are representative of manufacturer specific photometric testing, which is subject to change without notification due to availability and product offering modifications. When evaluating photometric data note that values are typically reduced over time with the LLF and other factors i.e. voltage variations, atmospheric conditions, etc.
Electronic IES photometric files are available upon request. Visit our Design Programs page for the use of photometric files.
Photos are representative of fixture style. Actual products may vary slightly, fixture and photometric data subject to change due to product offering modifications.

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NORTH CAROLINA PROFESSIONAL SEAL 030517 ENGINEER TIMOTHY A. SMITH 10-22-15

SITE DETAILS

THE BARN OF CHAPEL HILL
CLASS "B" – SUP

BINGHAM TOWNSHIP
ORANGE COUNTY, N.C.

SCALE 1" =100'
DRAWN BY MKM
CHECKED BY TAS
DATE 4-2-15
PROJECT NO. 501302.02
DRAWING NO. CBSUSP01

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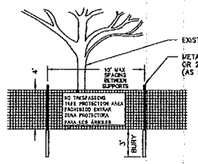
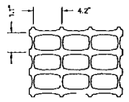




TYPICAL FENCING FABRIC
SEE NOTE #3.

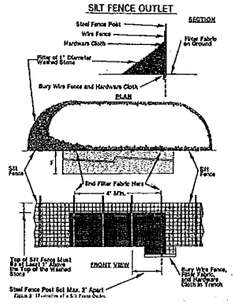
NOTES:

1. PLACE CONTINUOUS RUN OF FENCE MATERIAL AS SHOWN ON PLANS.
2. ATTACH AT 10' MAXIMUM INTERVALS TO 2x4 POSTS. DO NOT STAPLE TO TREES.
3. FENCE MATERIAL SHALL BE TENSAR NON-STRUCTURAL POLYMER GEOGRID FABRIC BY TENSAR CORPORATION, MORROW, GEORGIA, OR EQUAL. BRIGHT ORANGE COLOR.
4. AT EAC H EL, PLACE SIGNS IN ENGLISH AND SPANISH "NO TRESPASSING – TREE PROTECTION AREA" and "PROHIBIDO ENTRAR – ZONA PROTECTORA PARA LOS ARBOLES"
5. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE PROJECT MANAGER AND THE TOWN'S LANDSCAPE ARCHITECT BEFORE ANY SITE WORK BEGINS.
6. ANY TREE ROOTS EXPOSED BY CONSTRUCTION SHALL BE SEVERED CLEANLY WITH A PRUNING TOOL.
7. THE SOIL WITHIN THE PROTECTED AREA AROUND EXISTING TREES SHALL NOT BE DRIVEN UPON AFTER FENCE STAKING FOR THE PURPOSE OF INSTALLING LANDSCAPING.

TREE PROTECTION FENCE

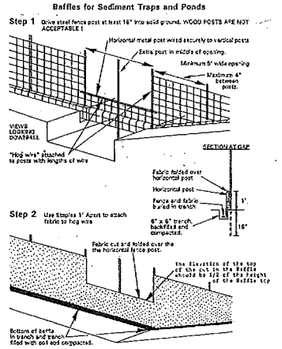
NOT TO SCALE

SILT FENCE OUTLET



INSTRUCTIONS FOR
SILT FENCE OUTLET

Baffles for Sediment Traps and Ponds



INSTRUCTIONS FOR TEMPORARY STABILIZATION USING

VEGETATION

INSTALLATION

1. REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY BE ABLE TO OFFER ASSISTANCE.

   IF THE DISTURBANCE IS NOT PROPERLY STABILIZED THE FIRST TIME SO THAT EROSION IS REDUCED, THE AREAS WILL HAVE TO BE REPAIRED.

2. USE THE APPLICATION RATES FOR LIME, FERTILIZER, SEED, MULCH, ETC. SPECIFIED IN THE PLAN, OR USE THE RATES BELOW FOR THE APPROPRIATE SEASON.

   ALL SEASONS:

   LIME: 90 POUNDS PER 1000 SQUARE FEET (2 TONS PER ACRE).
   FERTILIZER: 10-10-10; 18 POUNDS PER 1000 SQUARE FEET (800 POUNDS PER ACRE).
   STRAW MULCH: 90 POUNDS PER 1000 SQUARE FEET (1.5 TO 2 TONS PER ACRE); USE ENOUGH STRAW TO COVER 75% OF THE GROUND.

   MARCH - MAY

   RYE GRASS: 3 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE).
   OR
   SPRING OATS: 3 POUNDS PER 1000 SQUARE FEET (125 POUNDS PER ACRE).

   MAY - AUGUST

   MILLET: 1 POUND PER 1000 SQUARE FEET (40 POUNDS PER ACRE).
   OR
   FOXTAIL MILLETS: 1 POUND PER 1000 SQUARE FEET (40 POUNDS PER ACRE).

   AUGUST 15 - NOVEMBER 15

   OATS: BEFORE OCTOBER 15: 2.5 POUNDS PER 1000 SQUARE FEET (125 POUNDS PER ACRE).
   OR
   WHEAT: AFTER OCTOBER 15: 3 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE).

   NOVEMBER 15 - FEBRUARY

   VEGETATION IS NOT AN APPROPRIATE STABILIZATION DURING THIS SEASON; USE ANOTHER TYPE OF TEMPORARY GROUND COVER, SUCH AS MULCHING.

3. SEEDBED PREPARATION: REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH MOWING AND MAINTENANCE. THE SMOOTH, COMPACTED SURFACE OF CUT AND FILL SLOPES IS NOT A GOOD SEED BED; APPLY LIME AND FERTILIZER, THEN RIP THE SOIL 4-6 INCHES TO MIX THE NUTRIENTS INTO THE SOIL AND TO LOOSEN AND ROUGHEN IT TO RECEIVE THE SEED.

4. SEEDING: APPLY SEED AT THE RECOMMENDED RATE, AND GO OVER THE SURFACE WITH A CULTIPACKER WHERE POSSIBLE TO BRING THE SEED INTO CONTACT WITH THE SOIL.

5. MULCHING: THE AREA SEEDED MUST BE MULCHED TO PROTECT THE BARE SOIL UNTIL THE VEGETATION IS ESTABLISHED AND TO RETAIN MOISTURE TO PROMOTE SEED GERMINATION AND PLANT GROWTH. APPLY ENOUGH MULCH TO COVER 75% OF THE SOIL SURFACE. TO KEEP IT IN PLACE AND PREVENT WIND OR WATER FROM DISLODGING IT, THE MULCH SHOULD BE HELD IN PLACE BY TACKING IT WITH ASPHALT OR COVERING IT WITH NETTING.

MAINTENANCE

AREAS MUST BE REWORKED AND MULCHED AGAIN IF THE VEGETATION FAILS TO ESTABLISH STRONG OR IS DAMAGED BY RUNOFF OR CONSTRUCTION ACTIVITY. IF THE TEMPORARY VEGETATION FAILS FOR ANY REASON BEFORE THE PERMANENT STABILIZATION IS PROVIDED, IT MUST BE REPLACED WITH AN APPROPRIATE TYPE OF COVER SUFFICIENT TO RESTRAIN EROSION.

INSTRUCTIONS FOR PERMANENT STABILIZATION USING

VEGETATION

INSTALLATION

1. REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY BE ABLE TO OFFER ASSISTANCE.

   IF THE DISTURBANCE IS NOT PROPERLY STABILIZED THE FIRST TIME SO THAT EROSION IS REDUCED, THE AREAS WILL HAVE TO BE REPAIRED UNTIL IT IS SUCCESSFUL.

2. USE THE APPLICATION RATES FOR LIME, FERTILIZER, SEED, MULCH, ETC. SPECIFIED IN THE PLAN, OR USE THE RATES BELOW FOR THE APPROPRIATE SEASON. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.

3. TALL FESCUE:

   SEEDING DATES: FEBRUARY 15 - MAY, OR AUGUST 15 - OCTOBER 15

   LIME: 135 POUNDS PER 1000 SQUARE FEET (3 TONS PER ACRE)

   FERTILIZER: 10-10-10; 23 POUNDS PER 1000 SQUARE FEET (1000 POUNDS PER ACRE). A STARTER APPLICATION OF 500 POUNDS PER ACRE INITIALLY AND ANOTHER 500 POUNDS IN THE SPRING OR FALL IS PREFERABLE. ADD 500 POUNDS PER ACRE SUPER PHOSPHATE WHERE THE SUBSOIL IS EXPOSED.

   SEED: 1.5 POUNDS PER 1000 SQUARE FEET (60 POUNDS PER ACRE)

   MULCH: 90 POUNDS OF SMALL GRAIN STRAW PER 1000 SQUARE FEET (APPROXIMATELY 2 BALES) OR 1.5 -2 TONS PER ACRE; USE ENOUGH STRAW TO COVER 75% OF THE GROUND.

   TEMPORARY COVER: 0.5 POUNDS OF CEREAL OR BROMEGRASS MILLET PER 1000 SQUARE FEET (20 POUNDS PER ACRE)

3. SEEDBED PREPARATION: REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INTERFERE WITH MOWING AND MAINTENANCE. THE SMOOTH, COMPACTED SURFACE OF CUT AND FILL SLOPES IS NOT A GOOD SEEDBED; APPLY LIME AND FERTILIZER, THEN RIP THE SOIL 4 TO 6 INCHES TO MIX THE NUTRIENTS INTO THE SOIL AND TO LOOSEN AND ROUGHEN IT TO RECEIVE THE SEED.

4. SEEDING: APPLY SEED AT THE RECOMMENDED RATE, AND GO OVER THE SURFACE WITH A CULTIPACKER WHERE POSSIBLE TO BRING THE SEED INTO CONTACT WITH THE SOIL.

5. MULCHING: THE AREA SEEDED MUST BE MULCHED TO PROTECT THE BARE SOIL UNTIL THE VEGETATION IS ESTABLISHED AND TO RETAIN MOISTURE TO PROMOTE SEED GERMINATION AND PLANT GROWTH. APPLY ENOUGH MULCH TO COVER 75% OF THE SURFACE. TO KEEP IT IN PLACE AND PREVENT WIND OR WATER FROM DISLODGING IT, THE MULCH SHOULD BE HELD IN PLACE BY TACKING IT WITH ASPHALT, CUTTING IT WITH A STRAIGHT-EDGE DISK, OR COVERING IT WITH NETTING.

MAINTENANCE

ANY PLACES WHERE THE VEGETATION FAILS TO ESTABLISH STRONG OR IS DAMAGED BY RUNOFF OR CONSTRUCTION ACTIVITY MUST BE REWORKED. WHERE THE VEGETATION FAILS TO RESTRAIN EROSION, OTHER EROSION CONTROL MEASURES MUST BE INSTALLED.

GRAVEL CONSTRUCTION EXIT

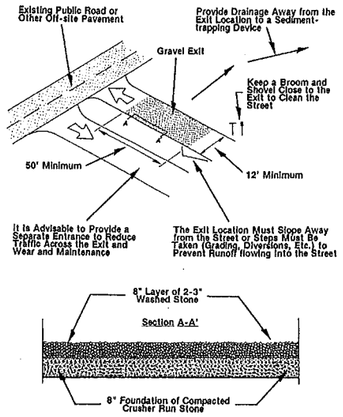


Figure 1: Illustration of a Gravel Construction Exit.

INSTRUCTIONS FOR

GRAVEL CONSTRUCTION EXIT

INSTALLATION

1. REFER TO PLANS FOR LOCATION AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION OR METHODS OF INSTALLATION CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND PHOTOGRAPHS OF PROPERLY INSTALLED EXITS AS AN AID TO INSTALLATION.

   IF THE CONSTRUCTION EXIT IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.

2. DETERMINE THE LOCATION ON THE GROUND, TAKING INTO CONSIDERATION:

   * THE CONSTRUCTION EXIT MUST BE IN PLACE DURING ALL PHASES OF CONSTRUCTION; IF THE LOCATION IS TO BE GRADED, THE EXIT MUST BE INSTALLED FOR THE INITIAL WORK, REMOVED TO ALLOW GRADING OF THE LOCATION, AND REPLACED IMMEDIATELY AFTER GRADING SO THAT IT IS IN PLACE AND FUNCTIONING AT ALL TIMES.
   * IF THE SITE WILL HAVE A LARGE NUMBER OF VEHICLES USING THE EXIT, IT IS ADVISABLE TO HAVE A DIVIDED ENTRANCE THAT DIRECTS ENTERING TRAFFIC THROUGH A SEPARATE TRAVELWAY PARALLEL TO THE GRAVEL CONSTRUCTION EXIT IN ORDER TO REDUCE THE NUMBER OF TRIPS OVER THE STONE, INCREASING THE LIFE OF THE GRAVEL, AND REDUCING MAINTENANCE. REFER TO THE ILLUSTRATION FOR DETAILS.
   * RUNOFF AND SEDIMENT FROM THE SITE MUST BE DIRECTED AWAY FROM THE EXIT SO THAT IT DOES NOT FLOW INTO THE STREET OR OTHER OFF-SITE AREA; CHOOSE A LOCATION FOR THE EXIT THAT WILL MAKE IT EASY TO DIVERT THE RUNOFF TO SEDIMENT-TRAPPING DEVICES.
   * IF THE GRAVEL CONSTRUCTION EXIT DOES NOT FUNCTION TO KEEP MUD AND DUST ON-SITE, THEN ANY SOIL OR DEBRIS TRACKED FROM THE SITE MUST BE PHYSICALLY REMOVED FROM THESE AREAS BY FIRST USING A SHOVEL AND BROOM AND THEN WASHING THE PAVEMENT.
   * IF THE PERSON RESPONSIBLE FOR THE DISTURBANCE FAILS TO TAKE INITIATIVE TO KEEP SOIL AND DEBRIS ON THE SITE ENFORCEMENT ACTION MAY BE TAKEN AGAINST THE SITE AND THE GRADING PERMIT REVOKED AND/OR A STOP WORK ORDER ISSUED.

3. CLEAR THE LOCATION OF THE EXIT, REMOVING STUMPS, ROOTS, AND OTHER VEGETATION IN ORDER TO PROVIDE A FIRM FOUNDATION SO THAT THE STONE IS NOT PRESSED INTO SOFT GROUND. CLEAR ENOUGH WIDTH TO ALLOW PASSAGE OF LARGE VEHICLES, BUT CLEAR ONLY WHAT IS NECESSARY FOR THIS EXIT. DO NOT CLEAR ADJACENT AREAS UNTIL THE REQUIRED EROSION CONTROL DEVICES ARE IN PLACE.

   IF THE SOIL AT THE LOCATION IS SOFT IT IS ADVISABLE TO PLACE A 6 TO 8 INCH LAYER OF CRUSHER RUN STONE DOWN FIRST TO PROVIDE A FIRM FOUNDATION AND PREVENT THE WASHED STONE BEING PRESSED INTO THE GROUND.

4. AT THE LOCATION OF THE EXIT, PLACE AN 8-INCH LAYER OF WASHED STONE 2 TO 3 INCHES IN DIAMETER AT LEAST 50 FEET LONG AND AS WIDE AS THE FULL WIDTH OF THE EXIT OR AT LEAST 10 FEET WIDE. FLARE THE END OF THE STONE WHERE IT MEETS THE PAVEMENT SO THAT THE WHEELS OF TURNING VEHICLES REMAIN ON STONE AND DO NOT TRAVEL OVER UNPROTECTED SOIL.

5. A SQUARE-EDGED SHOVEL AND BROOM WITH STIFF BRISTLES MUST BE PROVIDED AT THE EXIT FOR REMOVING ANY MUD THAT MAY BE TRACKED INTO THE STREET.

USE

1. AS VEHICLES LEAVING THE SITE DRIVE ACROSS THE WASHED STONE THE ABRASIVE ACTION OF THE WASHED STONE SHOULD REMOVE SEDIMENT FROM THE TIRES. IT MAY BE NECESSARY TO USE A SHOVEL TO REMOVE MUD TRAPPED BETWEEN DUAL WHEELS.

2. ANY SOIL TRACKED FROM THE SITE MUST BE REMOVED IMMEDIATELY. A SHOVEL AND BROOM MUST BE USED TO REMOVE AS MUCH SOIL AS POSSIBLE BEFORE WASHING THE PAVEMENT.

MAINTENANCE

MATERIALS, EQUIPMENT, AND PERSONNEL MUST BE AVAILABLE FOR MAINTENANCE AT ALL TIMES.

1. WHEN THE STONE IN THE EXIT BECOMES CONTAMINATED WITH SOIL AND ITS FUNCTION IS REDUCED TO WHERE SEDIMENT IS BEING TRACKED INTO THE STREET, A 4-INCH LAYER OF CLEAN STONE MUST BE ADDED.

2. DIVERSIONS USED TO DIRECT RUNOFF AWAY FROM THE EXIT TO SEDIMENT-TRAPPING DEVICES MUST BE MAINTAINED ACCORDING TO SPECIFICATIONS FOR THOSE DEVICES.

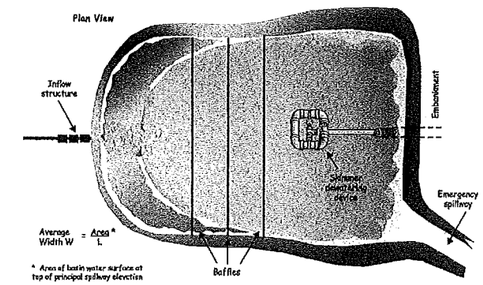
3. THE GRAVEL CONSTRUCTION EXIT MUST BE MAINTAINED SO THAT MUD AND DUST ARE KEPT ON-SITE. PROBLEMS MUST BE ANTICIPATED AND PREVENTIVE MAINTENANCE MUST BE PERFORMED.

REMOVAL

1. WHEN THE GRAVEL CONSTRUCTION EXIT IS NO LONGER NEEDED, WHEN THE TRAVELWAYS HAVE BEEN STABILIZED AND THE POTENTIAL FOR TRACKING SOIL AND DEBRIS INTO THE STREET HAS BEEN REMOVED, THE GRAVEL CONSTRUCTION EXIT MAY BE REMOVED.

2. THE STONE AND ANY SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF WHERE THEY WILL NOT CREATE AN EROSION HAZARD.

- Dewatering Allow this maximum reasonable detention period before the basin is completely dewatered (at least 48 hours).
- Inflow rate Reduce the inflow velocity and divert all sediment-free runoff.



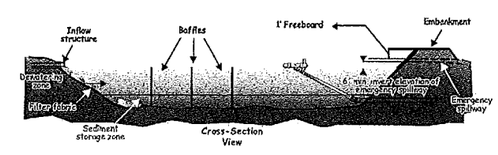


Figure 6.64c Example of a sediment basin with a skimmer outlet and emergency spillway From Pennsylvania Erosion and Sediment Pollution Control Manual, March, 2000.

NPDES Stormwater Discharge Permit for Construction Activities (WQG01) NCDENR/Division of Water Quality

NEW STABILIZATION TIMEFRAMES

(Effective Aug. 3, 2010)

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.

6

The costs of using a skimmer system are similar, or occasionally less, than a conventional rock outlet or perforated riser. However, the basin is more efficient in removing sediment. Another advantage of the skimmer is that it can be reused on future projects. The main disadvantage of the skimmer is that it does require frequent maintenance, primarily in removing debris from the inlet.

A skimmer must dewater the basin from the top of the water surface. The rate of dewatering must be controlled. A dewatering time of 2-5 days is required. Any skimmer design that dewaters from the surface at a controlled rate is acceptable.

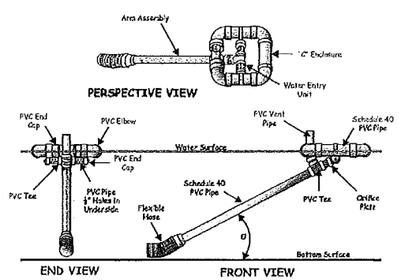


Figure 6.64a Schematic of a skimmer, from Pennsylvania Erosion and Sediment Pollution Control Manual, March, 2000

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NORTH CAROLINA PROFESSIONAL SEAL 030517 ENGINEER TIMOTHY A. SMITH 10-22-16

EROSION CONTROL DETAILS

THE BARN OF CHAPEL HILL
CLASS "B" – SUP

BINGHAM TOWNSHIP ORANGE COUNTY, N.C.

SCALE 1" =100'
DRAWN BY MKM
CHECKED BY TAS
DATE 4-2-15
PROJECT NO. 501302.02
DRAWING NO. CBS05SP01

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REVISIONS
1. 10-21-15: MISC. REVISIONS.

SHEET S-8
OF 12

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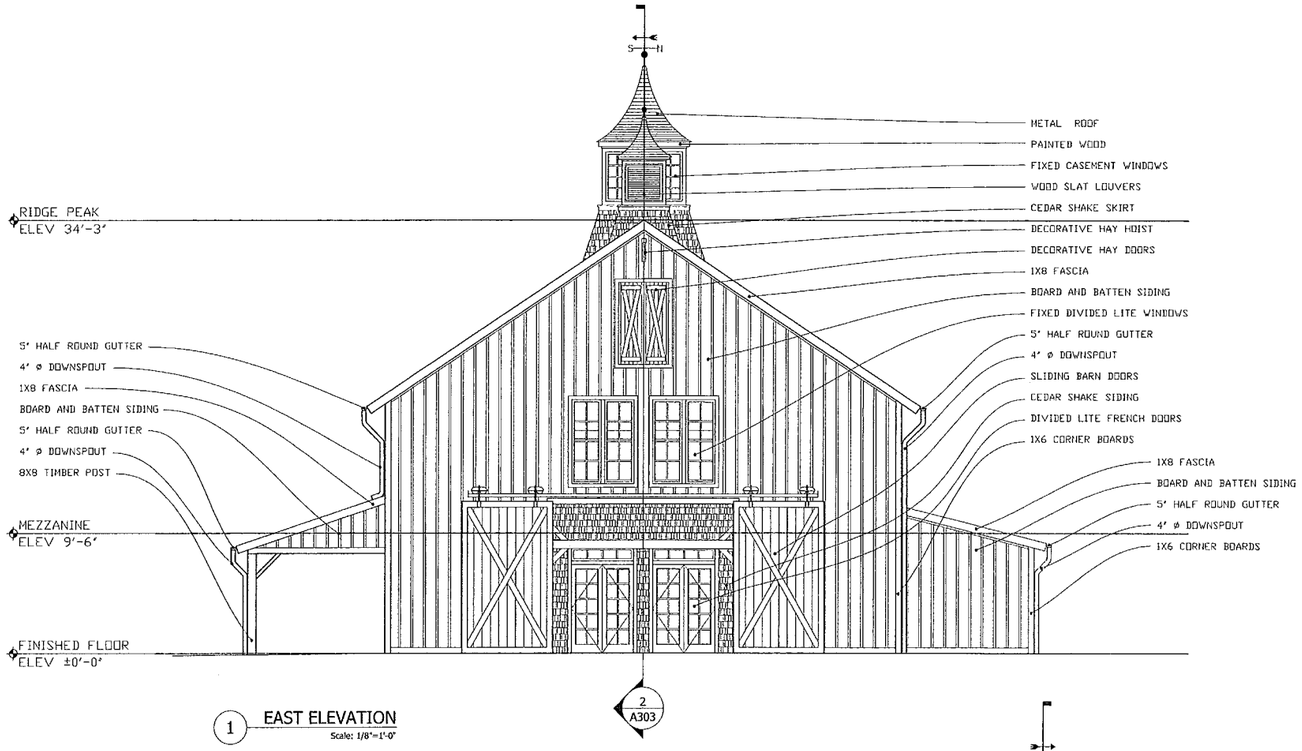
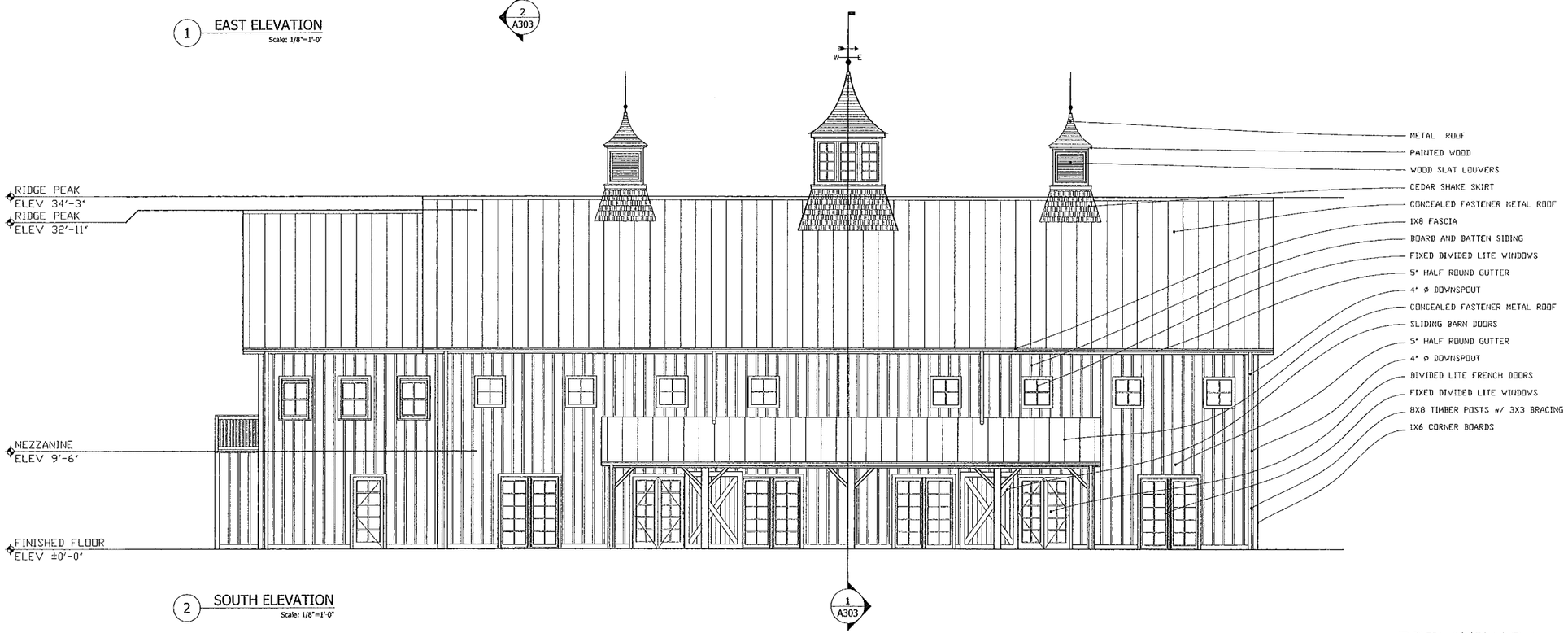


1 EAST ELEVATION
Scale: 1/8"=1'-0"



2 SOUTH ELEVATION
Scale: 1/8"=1'-0"

PRELIMINARY - NOT FOR CONSTRUCTION

ELEVATIONS SCALE: 3/16" = 1'

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FAX: 254-870-1982
www.HERITAGEBARNS.com

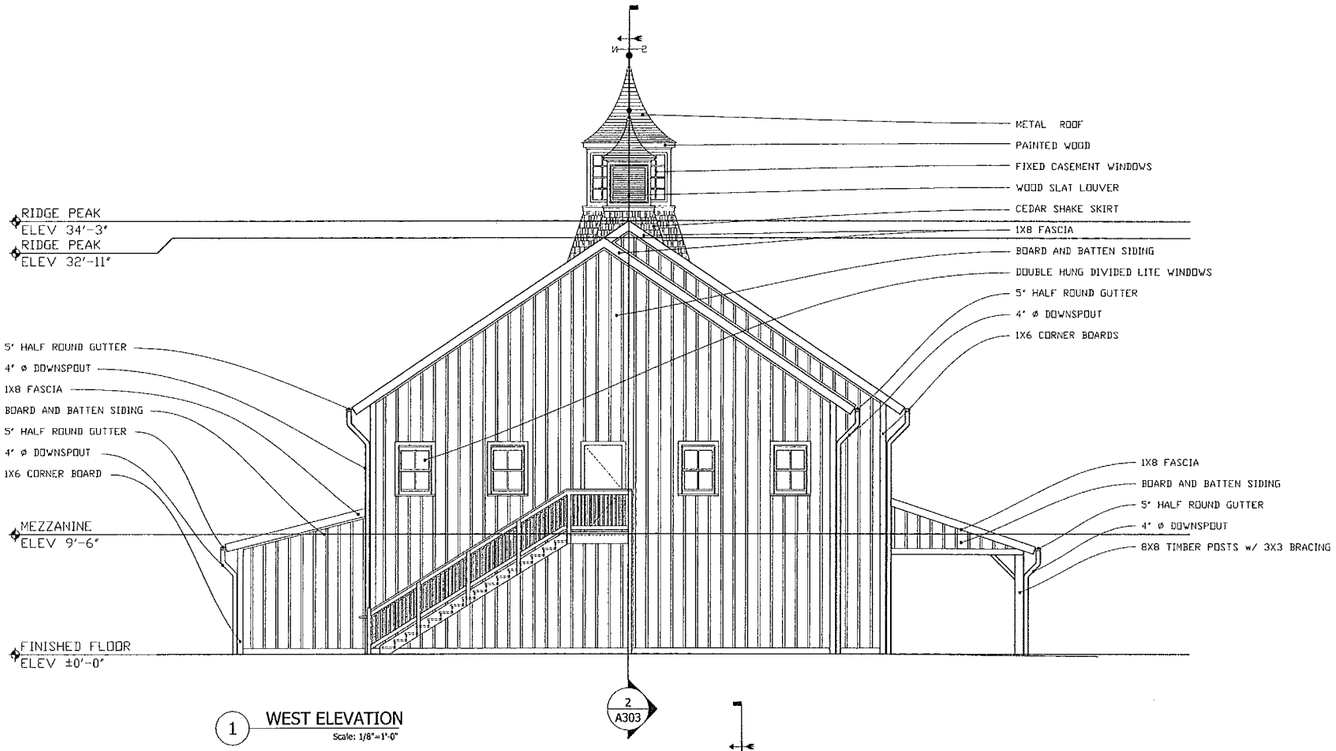
BREWER WEDDING VENUE
CHAPEL HILL, NORTH CAROLINA

REV.	REVISION DESCRIPTION	DATE
A	OWNER REVIEW	11/14/14
B	OWNER REVIEW	12/2/14
C	OWNER REVIEW	2/27/15
E	OWNER REVIEW	3/13/15
F	OWNER REVIEW	3/30/15

REVISION
F
DATE: 150330

James M. Kistler
AIA
Architect
Waco, Texas

SHEET TITLE
A301
DESIGN BY: JMK
DRAWN BY: JMK



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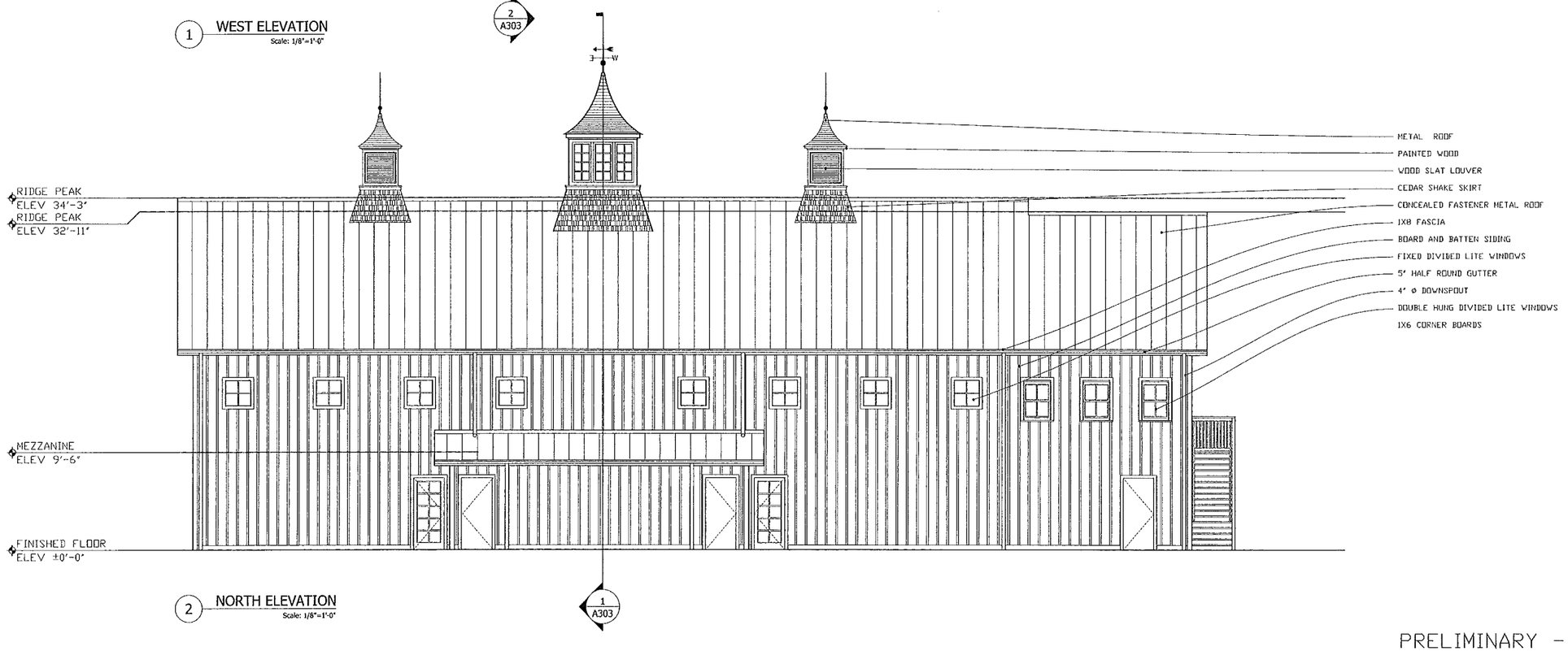
Scale: 1/8"=1'-0"



2 NORTH ELEVATION
Scale: 1/8"=1'-0"

PRELIMINARY - NOT FOR CONSTRUCTION

ELEVATIONS SCALE: 3/16" = 1'

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REV.	REVISION DESCRIPTION	DATE
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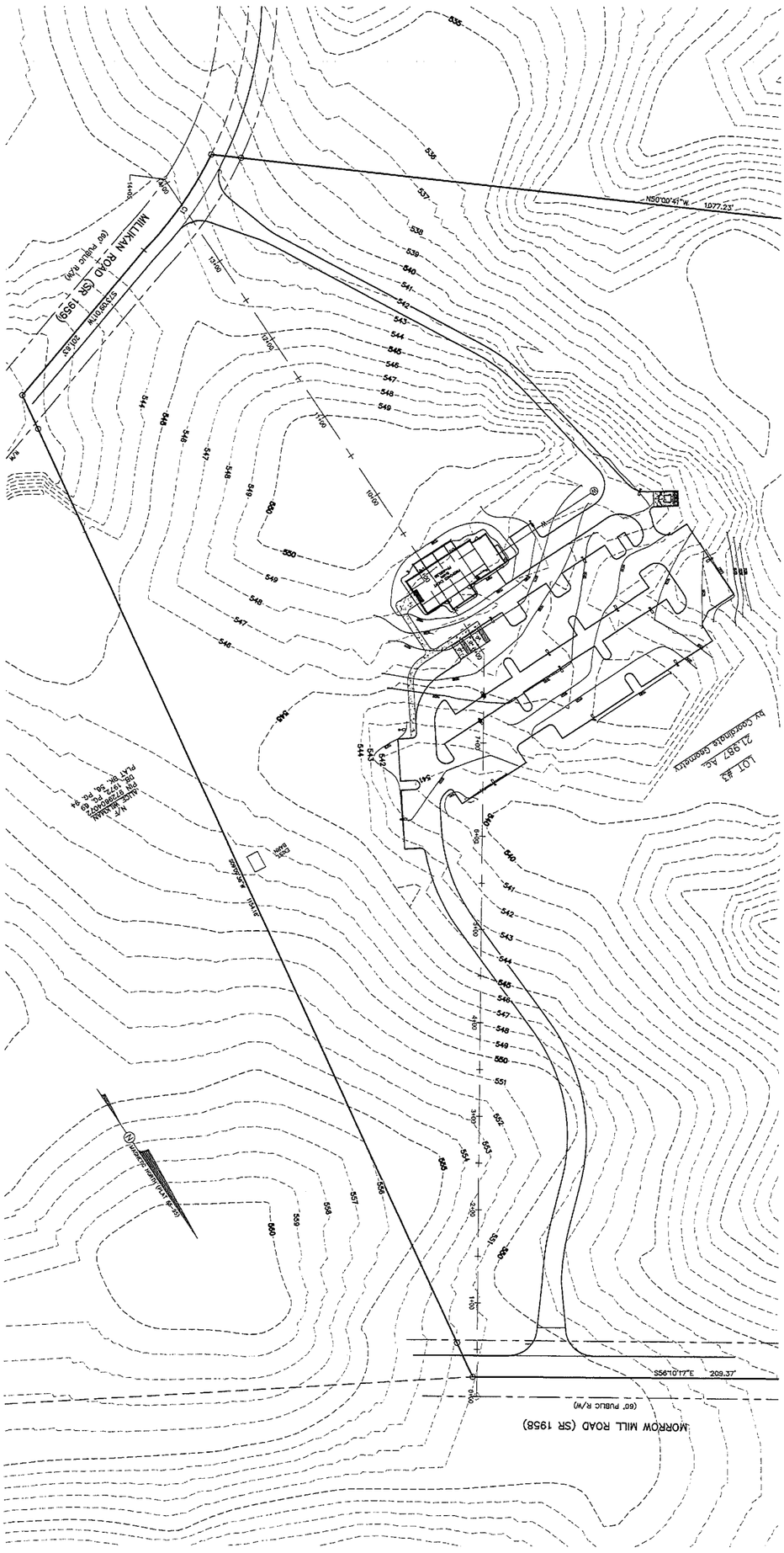
C	OWNER REVIEW	2/27/15
E	OWNER REVIEW	3/13/15
F	OWNER REVIEW	3/30/15
		-
		-

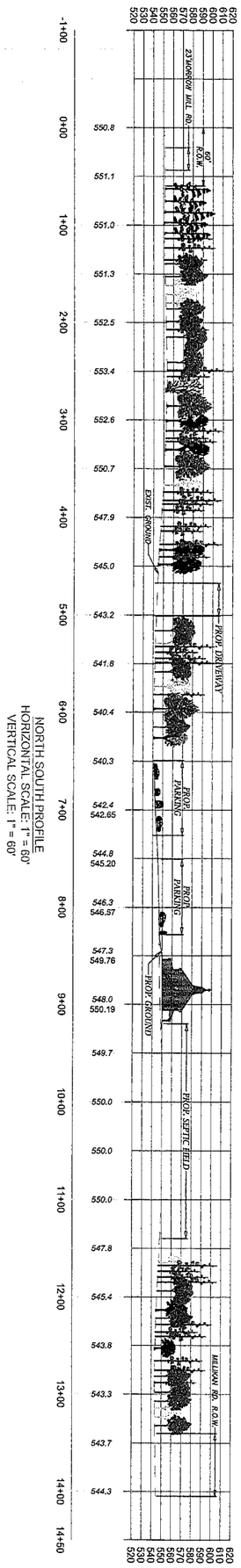
REVISION
F
DATE: 150330

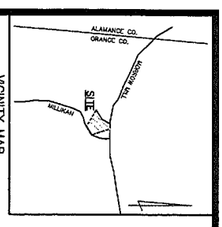
James M. Kistler
AIA
Architect
Waco, Texas

SHEET TITLE
A302

DESIGN BY: JMK
DRAWN BY: JMK







VICINITY MAP
NOT TO SCALE

SHEET XS-1
OF 12

REVISIONS

SCALE 1" = 60'
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CHECKED BY JJB
DATE 10-19-15
PROJECT NO. 501302.02
DRAWING NO. C850-XSECT

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NORTH/SOUTH SITE SECTION

THE BARN OF CHAPEL HILL
SITE SECTIONS

BINGHAM TOWNSHIP ORANGE COUNTY, N.C.

NORTH CAROLINA PROFESSIONAL SEAL 030517 ENGINEER TIMOTHY A. SMITH
10-22-15

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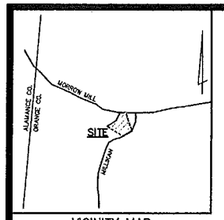

VICINITY MAP
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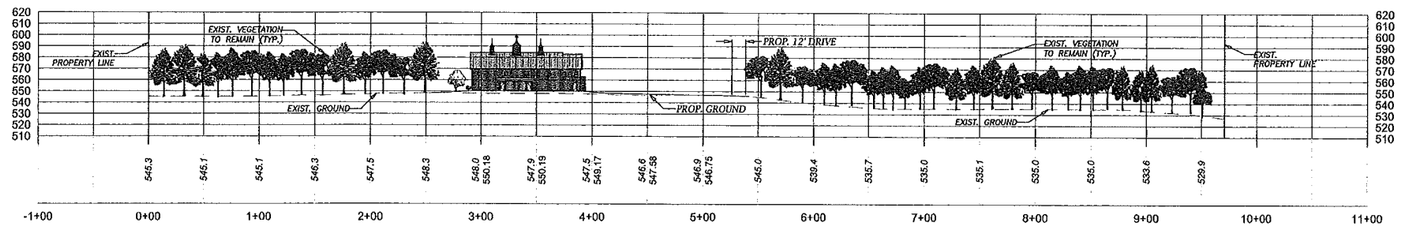
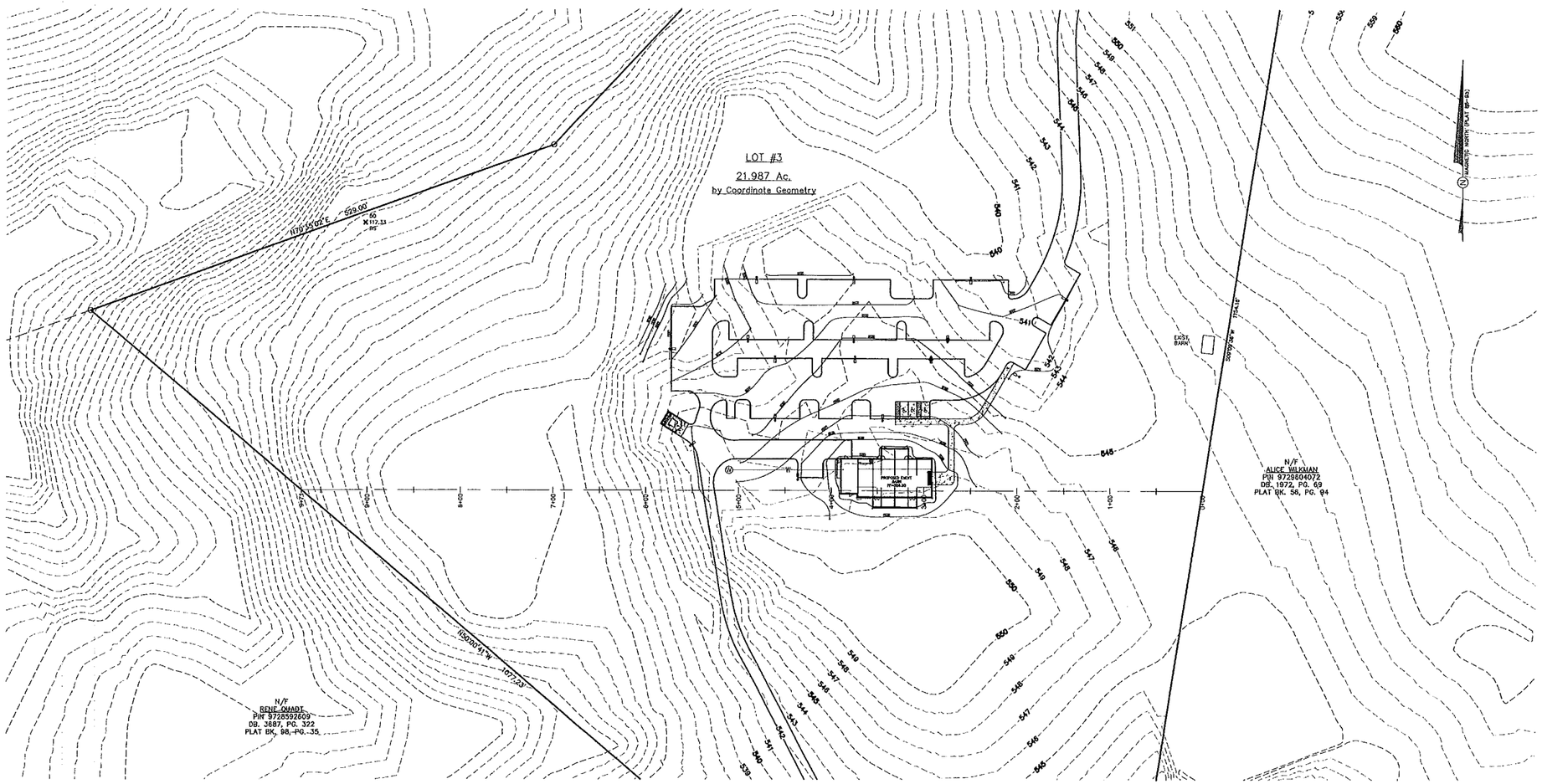


EAST WEST PROFILE
HORIZONTAL SCALE: 1" = 60'
VERTICAL SCALE: 1" = 60'



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HOPE CARROLL WILLIAMS
PROFESSIONAL SEAL
030517
ENGINEER
TIMOTHY A. SMITH
10-22-15

EAST/WEST SITE SECTION

THE BARN OF CHAPEL HILL
SITE SECTIONS

BINGHAM TOWNSHIP
ORANGE COUNTY, N.C.

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DATE 10-13-15
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RENDERED SITE PLAN

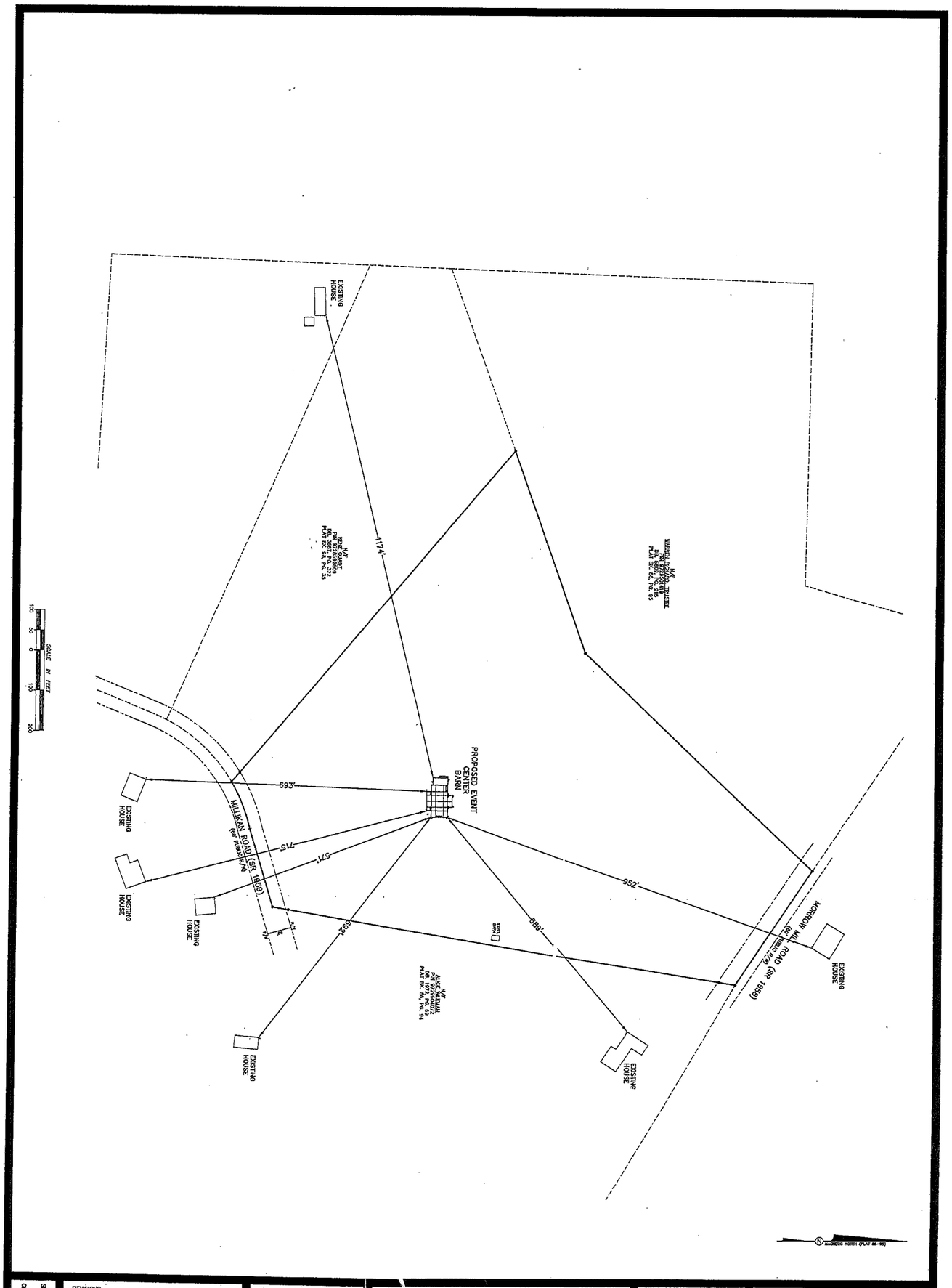
THE BARN OF CHAPEL HILL
CLASS "B" - SUP
BINGHAM TOWNSHIP ORANGE COUNTY, N.C.

SCALE 1" = 60'
DRAWN BY JJB
CHECKED BY JJB
DATE 10-20-15
PROJECT NO. 501302.02
DRAWING NO. C850-RNDR

REVISIONS

SHEET EX-1
OF 1

H:\Projects\C850\dwg\C850SP01.dwg, 1:1



SHEET 1 OF 1

REVISIONS

SCALE 1" =100'
DRAWN BY MKM
CHECKED BY TAS
DATE 10/26/2015
PROJECT NO. 501302.02
DRAWING NO. C850SP01

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EXHIBIT MAP

THE BARN OF CHAPEL HILL
DISTANCE TO NEARBY RESIDENCES

BINGHAM TOWNSHIP ORANGE COUNTY, N.C.

NORTH CAROLINA PROFESSIONAL SEAL 030517 ENGINEER TIMOTHY A. SMITH 10/28/15

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