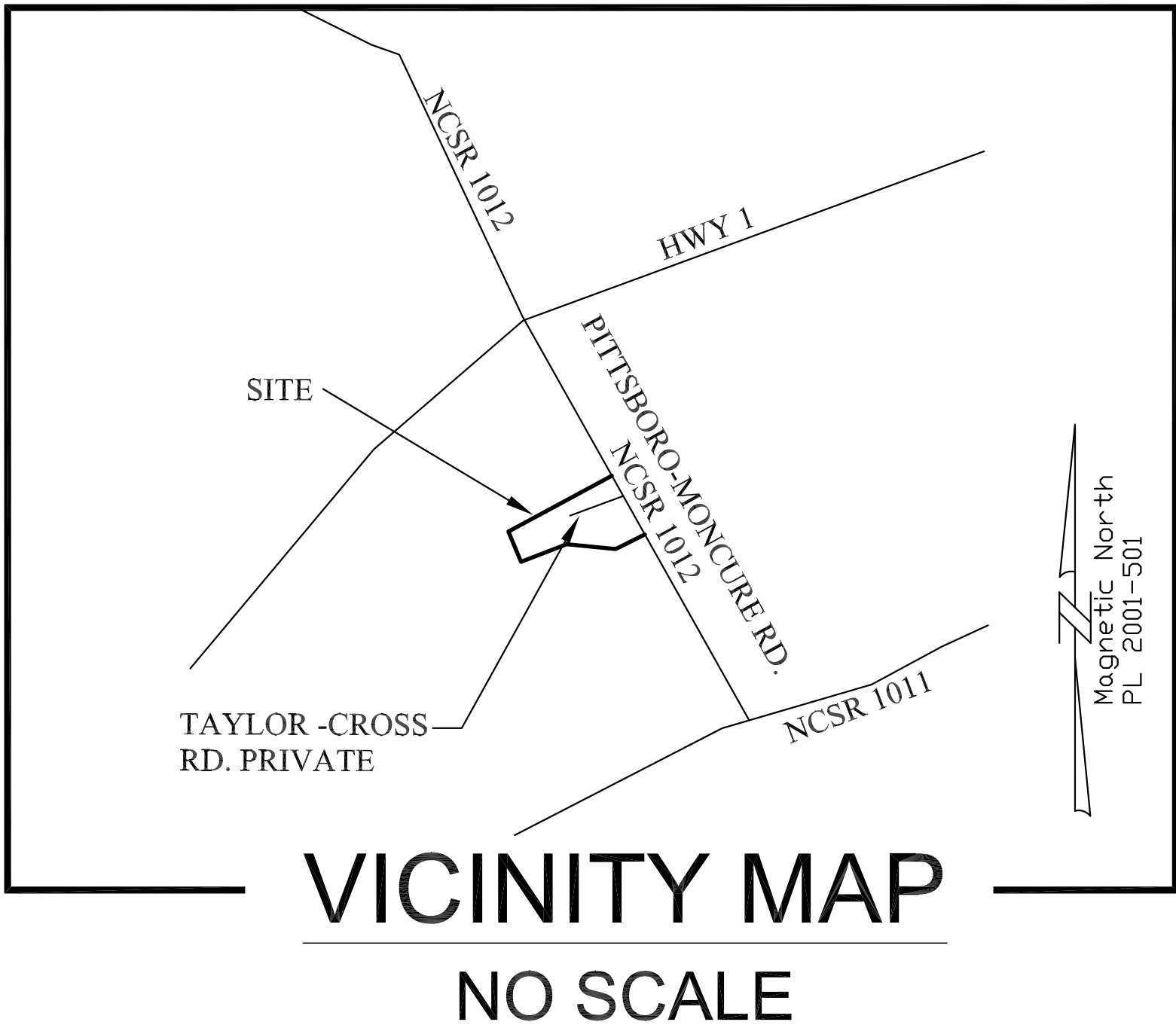


# JORDAN LAKE DETAILING CENTER

SHEET INDEX

SHEET 1	C1 - COVER SHEET
SHEET 2	EX1 - EXISTING CONDITIONS
SHEET 3	SP1 - SITE PLAN
SHEET 4	GR1 -GRADING AND UTILITY AND EROSION CONTROL PLAN
SHEET 5	LP1 - PLANTING AND LIGHTING PLAN
SHEET 6	D1 - DETAILS
SHEET 7	D2 - DETAILS
SHEET 8	D3 - DETAILS



ENGINEERING FIRM:

PLANS PREPARED BY:

ADDRESS:

PHONE:

DEVELOPER

ADDRESS:

PHONE:

VETERAN ENGINEERING ASSOCIATES, INC. (C-3527)

P.O. BOX 1625 DURHAM, NC 27702

(919) 201-2175

ATTN: Thomas Ray KAGARISE, P.E., as President

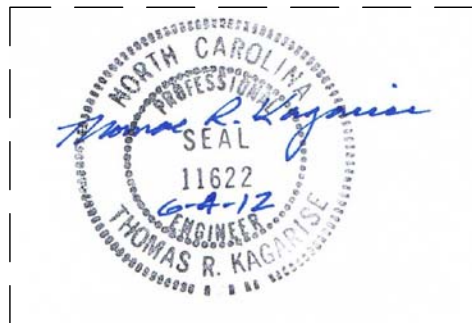
DERRY SMITH JR.

PO BOX 311

MONCURE, NC 27559

(919) 548-0802

PRELIMINARY DRAWING  
NOT RELEASED FOR  
CONSTRUCTION 6/4/12



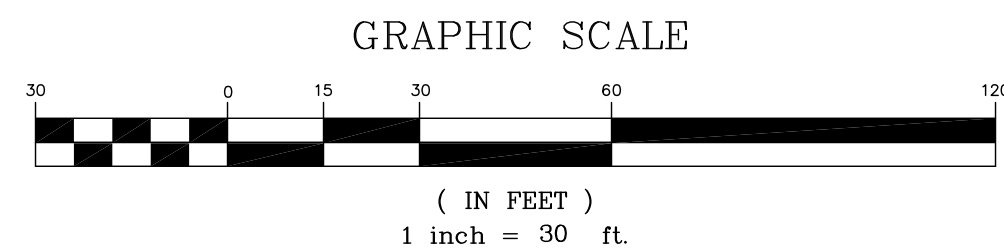
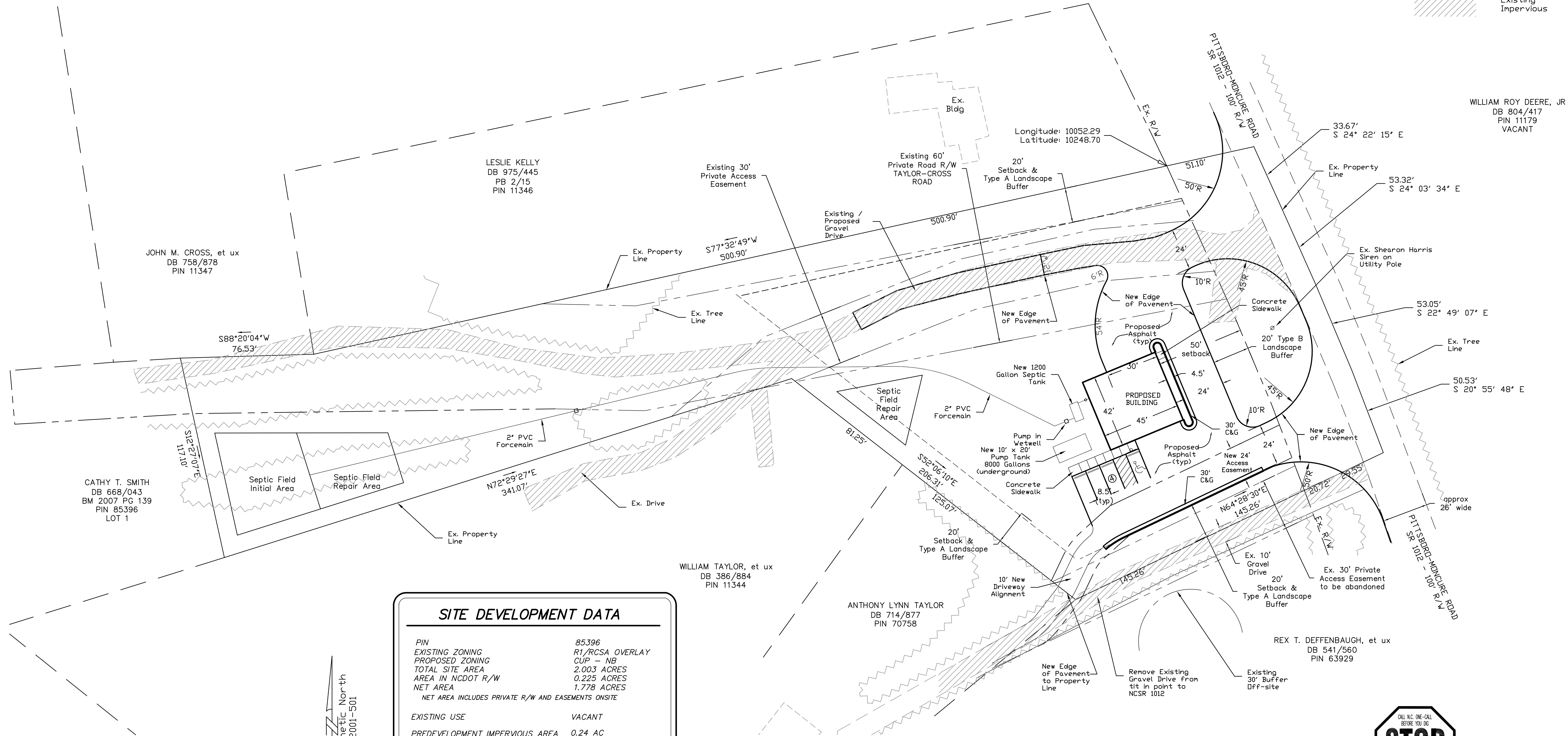
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VETERAN ENGINEERING ASSOCIATES, INC.









### SITE DEVELOPMENT DATA

PIN	85396
EXISTING ZONING	R1/RCSA OVERLAY
PROPOSED ZONING	CUP - NB
TOTAL SITE AREA	2.003 ACRES
AREA IN NCDOT R/W	0.225 ACRES
NET AREA	1.778 ACRES
NET AREA INCLUDES PRIVATE R/W AND EASEMENTS ONSITE	
EXISTING USE	VACANT
PREDEVELOPMENT IMPERVIOUS AREA	0.24 AC
POSTDEVELOPMENT IMPERVIOUS AREA	0.39 ACRE
POST DEVELOPMENT IMPERVIOUS %	19%
= 100 x 0.39 AC / 2.003 AC =	
19%	
<u>PARKING REQUIRED</u>	
EMPLOYEES	3
REQ'D PARKING	1 SPACE/2 EMPLOYEES = 2 SPACES
HANDICAP ACCESS = 1 SPACE	
<u>PARKING PROVIDED</u>	
PARKING	4 SPACES
HANDICAP ACCESS = 1 SPACE	
<u>SETBACKS</u>	
MIN. FRONT	50'
MIN. SIDE	20'
MIN. REAR	20'
MIN. LOT AREA	40,000 S.F.
MIN. LOT WIDTH	75 FT
MAX BUILDING HEIGHT	60 FT
MAX BUILDING SQ. FT.	40,000 S.F.
GRADED DISTURBED AREA	0.75 ACRE
<u>LANDSCAPE BUFFER</u>	
MIN. FRONT	20' (Type B)
MIN. SIDE	20' (Type A)
MIN. REAR	20' (Type A)
ENTIRE TRACT TO BE REZONED	
ALL ADJOINING PROPERTY IS ZONED R-1	

### GENERAL NOTES:

- METES AND BOUNDS FROM SMITH AND SMITH SURVEY DATED SEPTEMBER 12, 2006, RECORDED IN BOOK OF MAPS 2007-139 FOUND IN THE CHATHAM COUNTY REGISTRY.
- BOUNDARY, TOPOGRAPHY AND EXISTING INFRASTRUCTURE BY SMITH AND SMITH SURVEYORS Staley C. SMITH, PLS L-3786
  - WATER IS SUPPLIED TO THE PROPOSED SITE BY CHATHAM COUNTY PUBLIC UTILITIES.
  - THE DOMESTIC SANITARY SEWAGE TREATMENT IS PROVIDED THRU THE USE OF ONSITE SEPTIC SYSTEM.
  - ALL DIMENSIONS SHOWN ON THIS PLAN ARE APPROXIMATE
  - A PUMP TANK SHALL BE INSTALLED ONSITE TO PROVIDE FOR PROCESS WASTE. PUMP/HAUL APPROVAL HAS BEEN OBTAINED FROM NCDWQ.
  - ELECTRICAL SERVICE IS AVAILABLE AT THE EXISTING SITE.
  - OWNER WILL CONTRACT WITH WASTE HANDLING FACILITY TO REMOVE WASTE FROM THIS SITE. OWNER WILL USE WASTE ROLL-OUT. ROLL-OUT TRASH CANS STORED INSIDE BUILDING.
  - REFERENCE LANDSCAPE PLAN FOR BUFFER PLANTINGS.
  - NO HISTORIC STRUCTURES OR MEANINGFUL VISTAS NO MEANINGFUL VEGETATION EXISTS ON THE SITE.
  - IT IS THE OPINION OF THE DESIGNER THAT THIS PROPOSAL ENHANCES THE VISUAL APPEARANCE OF THE EXISTING SITE AREA.
  - THIS PROJECT DOES NOT PROPOSE ANY OUTDOOR STORAGE, UTILITY, AND/OR EQUIPMENT STORAGE AREAS.

PRELIMINARY DRAWING  
NOT RELEASED FOR  
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VETERAN ENGINEERING ASSOCIATES, INC.

**VETERAN ENGINEERING ASSOCIATES, INC.**  
Civil Engineering Services  
Office Box 1025 Durham, N.C. 27702  
(919) 201-2175 (P) VEA Ltr# - (C-3527)  
veteranengineeringassociates@gsbco.com

**OWNER**  
**Derry Smith, Jr.**  
PO BOX 311  
Monrovia, NC 27059

**SITE PLAN**

**JORDAN LAKE DETAILING CENTER**

Chatham County Monrovia, North Carolina

SHEET TITLE

BY

REVISION

NO.

DATE

SCALE

1" = 30'

DATE

6/4/12

DESIGNED BY

VEA

CHECKED BY

VEA

OF

SP1

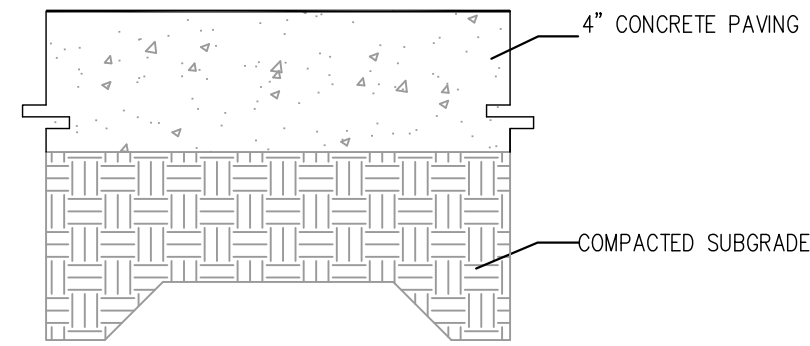








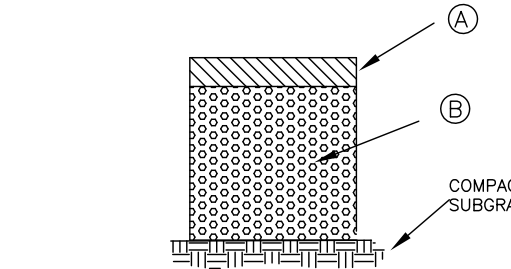




NOTES:

1. ALL CONCRETE 3000 PSI.
2. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH TOOLED 1/4" EDGE RADIUS.
3. BROOM FINISH
4. PER COUNTY OF CHATHAM CURRENT STANDARDS AND SPECIFICATIONS

CONCRETE SIDEWALK  
NTS

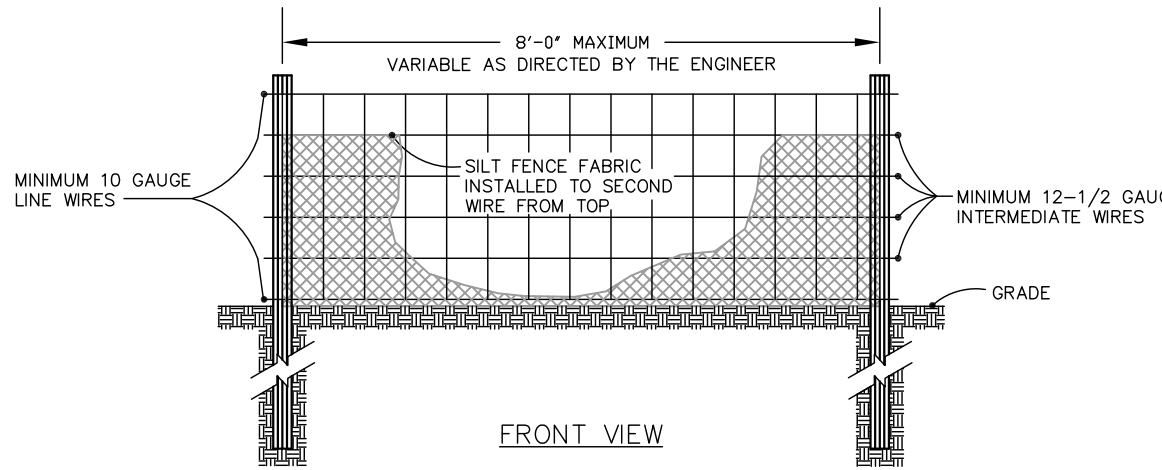


TYPICAL PAVEMENT SECTION

PARKING PAVEMENT SCHEDULE

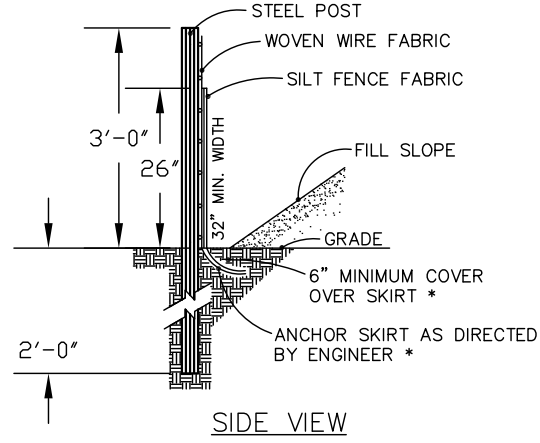
(TO BE VERIFIED BY OWNERS  
GEOTECHNICAL ENGINEER BASED ON SITE  
CONDITIONS)

TYPICAL PAVEMENT SECTION  
NTS

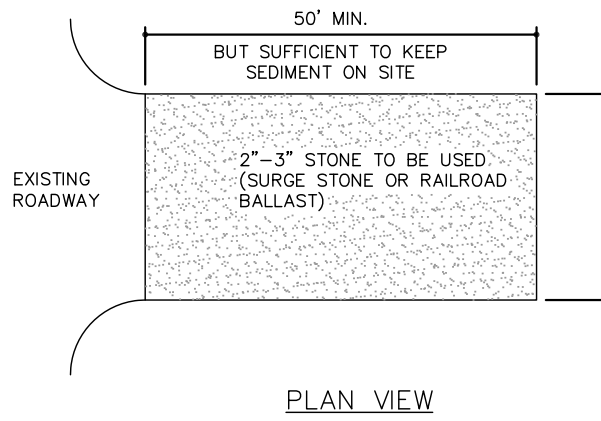


NOTE:

USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.



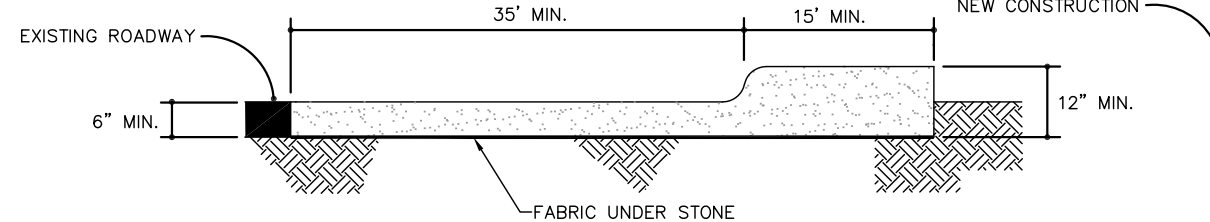
STANDARD TEMPORARY SILT FENCE  
NTS



NOTES:

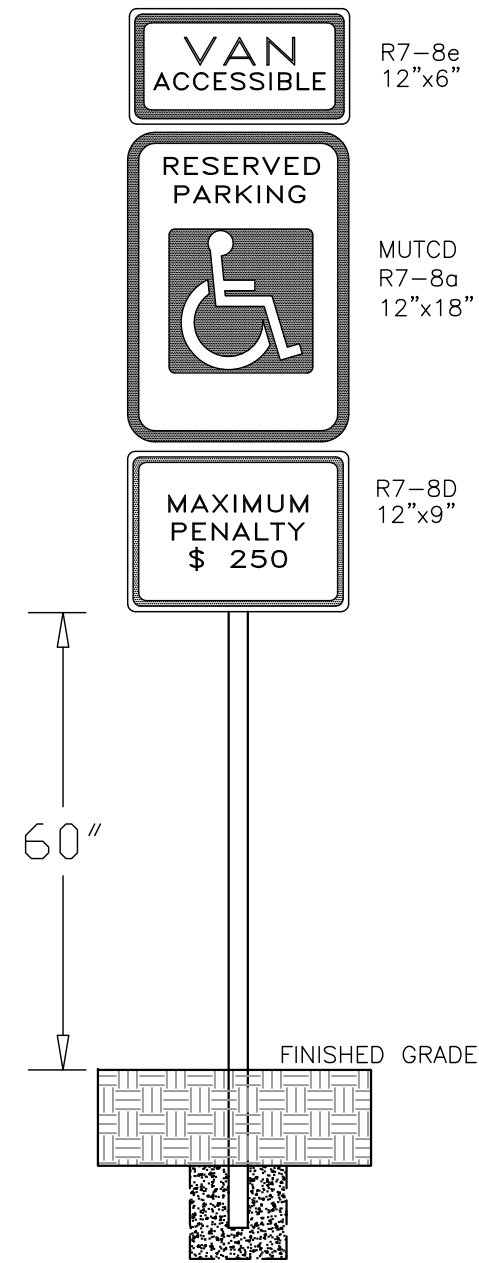
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.

PLAN VIEW

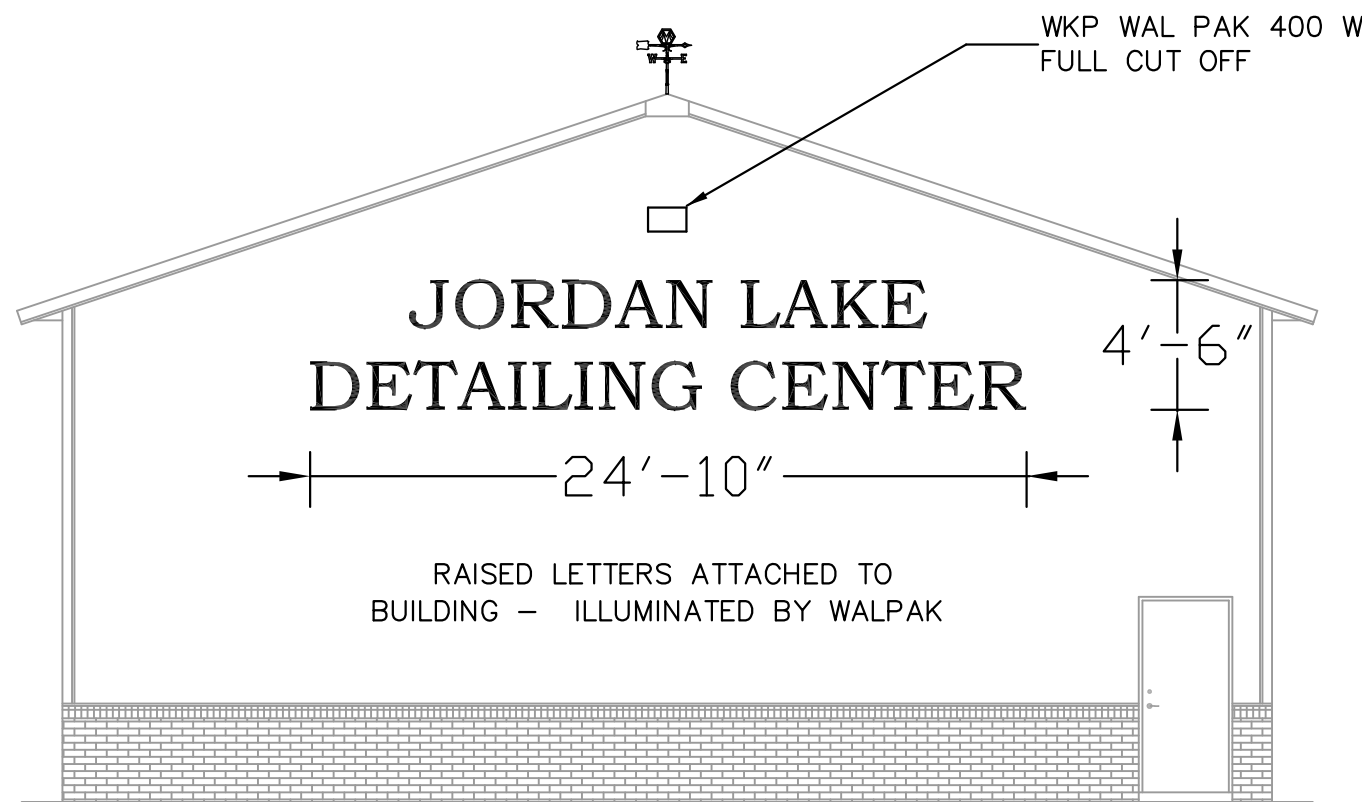


CROSS SECTION

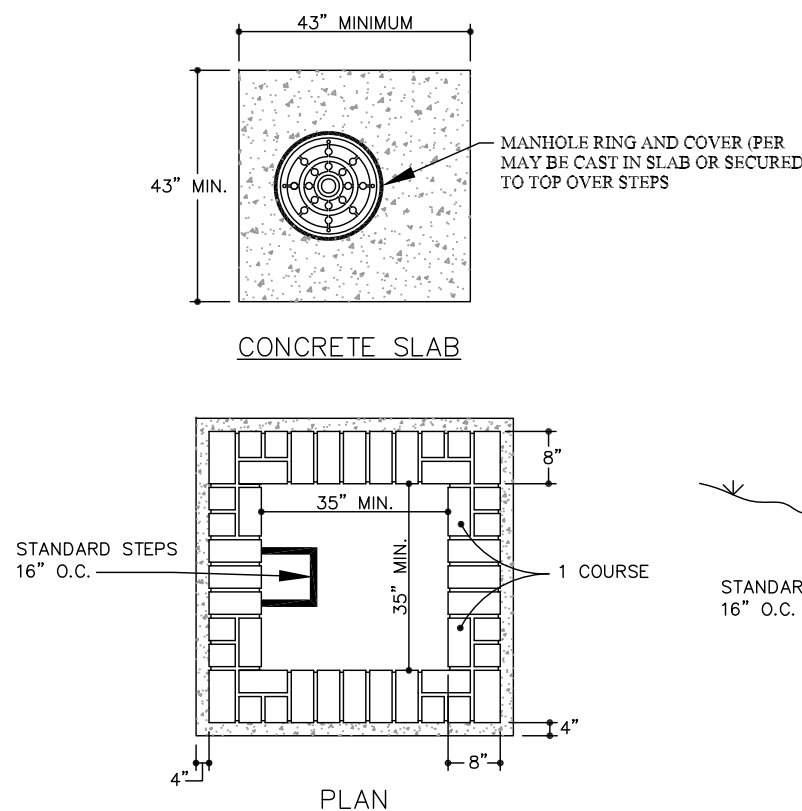
STANDARD CONSTRUCTION ENTRANCE  
NTS



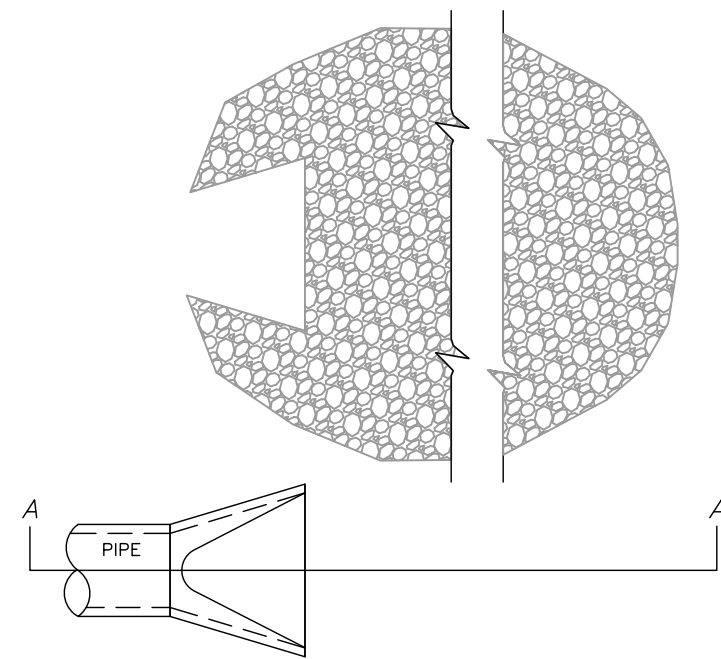
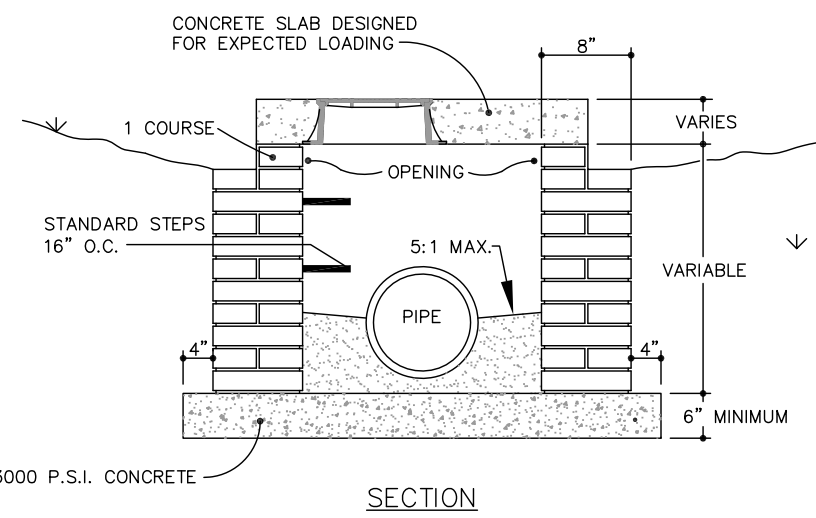
HANDICAP PARKING SIGNAGE  
NTS



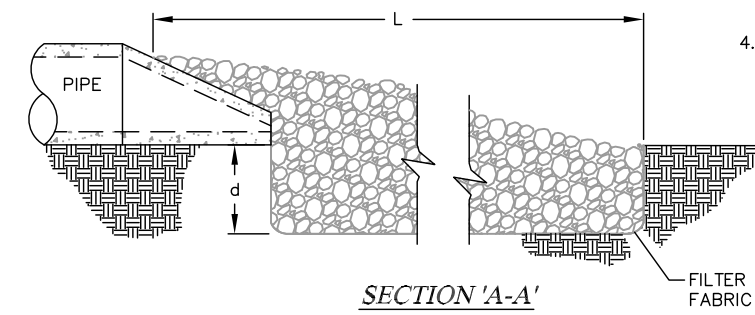
PROPOSED SIGN LOCATION  
NTS



YI #4  
STANDARD YARD INLET WITH CONCRETE SLAB  
NTS



PLAN VIEW



SECTION 'A-A'

FES #6  
PIPE OUTLET TO WELL-DEFINED CHANNEL  
NTS

NOTES:

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

SEEDBED PREPARATION NOTES:

1. Surface water control measures to be installed according to plan.
2. Areas to be seeded shall be ripped and spread with available topsoil 3" deep.
3. Loose rocks, roots and other obstructions shall be removed from the surface so that they will not interfere with establishment and maintenance of vegetation. Surface for final seedbed preparation, at finish grades shown, shall be reasonably smooth and uniform.
4. If no soil test is taken, fertilizer and lime to be according to seeding specifications above. In addition, provide 15 lbs./1000 s.f. of superphosphate.
5. If soil test is taken, provide fertilizer and lime according to soil test report.
6. Fertilizer and lime shall be applied uniformly and mixed with the soil during seedbed preparation.
7. Additional erosion control measures may be required depending on field conditions.
8. Mulch to be tacked or mechanically tied down within two days after mulch is spread.
9. Buffer zones to be used only as specifically denoted on plans.
10. Borrow and fill to be balanced on site.

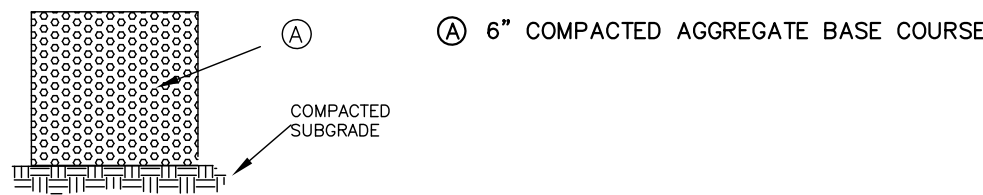
**GRADED SLOPES AND FILLS** - The angle for graded slopes and fills shall be no greater than the angle which can be retained by vegetative cover or other adequate erosion control devices or structures. In any event, slopes left exposed shall, within 15 working days of completion of any phase of grading, be planted or otherwise provided with ground cover, devices, or structures sufficient to restrain erosion.

**GROUND COVER** - Whenever land disturbing activity is undertaken on more than one acre, it must be planted or otherwise stabilized within 15 working days on that portion of the tract upon which further active construction is not being undertaken, provided that this subsection shall not apply to cleared land forming the basin of a reservoir later to be inundated.

**GRADED SLOPES AND FILLS** - Cut and Fill slopes that are (2:1) or greater shall be stabilized with permanent slope retention devices or a suitable combination of plantings and retention devices. Slopes greater than three to one (3:1) shall not be stabilized with turf grass but must be stabilized with vegetation that requires minimal maintenance. Weeping Love Grass, Red Fescue or other approved variety.

SEEDING SPECIFICATIONS:

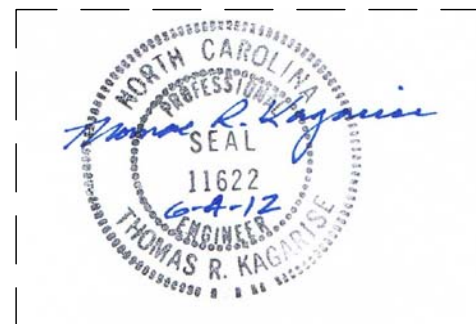
Date	Type	Planting Rate
Aug. 15 - Nov. 1	Tall Fescue	300 lb./ac. or 7 lb./1000 s.f.
Nov. 1 - Mar. 1	Tall fescue and	300 lb./ac. or 7 lb./1000 s.f.
Mar. 1 - Apr. 15	Tall Fescue	300 lb./ac. or 7 lb./1000 s.f.
Apr. 15 - Jul. 30	Mulled Common	30 lb./ac. or 1 lb./1000 s.f.
Jul. 15 - Aug. 15	Tall Fescue and	300 lb./ac. or 7 lb./1000 s.f.
	Sorghum Sudan Hybrids	30 lb./ac. or 3/4 lb./1000 s.f.
Mulch with straw applied at the rate of 75-100 lb./1000 s.f. Heavily mulched during January - March period.		
Apply agricultural lime at the rate of 90 lb./1000 s.f.		
Apply 10-10-10 commercial fertilizer at the rate of 20 lb./1000 s.f.		
Tack: Asphalt tie down - 225 gal./ac.		



TYPICAL STONE DRIVEWAY SECTION

(TO BE VERIFIED BY OWNERS  
GEOTECHNICAL ENGINEER BASED ON SITE  
CONDITIONS)

TYPICAL STONE DRIVEWAY SECTION  
NTS



PRELIMINARY DRAWING  
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VETERAN ENGINEERING ASSOCIATES, INC.

**VETERAN ENGINEERING ASSOCIATES, INC.**  
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Post Office Box 1626 Danham, N.C. 27702  
(919) 207-2773 (P) VEA Lic# - (C-3527)  
veteranengineeringassociates@yahoo.com

**OWNER**  
**Derry Smith, Jr.**  
PO BOX 311  
Moncure, NC 27559

DETAILS

JORDAN LAKE DETAILING CENTER

Moncure, North Carolina

Chatham County

SHEET TITLE

BY

REVISION

NO. DATE

PROJECT NO. 0040

SCALE 1"=30'

DATE 6/4/12

DRAWN BY VEA

CHECKED VEA

D1



**ENGLISH STANDARD DRAWING FOR  
CONCRETE CATCH BASIN**

12" THRU 54" PIPE

**SECTION X-X**

FRAME, GRATE AND HOOD  
SEE STD. NO. 840.03

USE CLASS "B" CONCRETE PROPORTIONED TO MEET THE FOLLOWING REQUIREMENTS:

PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC FOUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

USE TYPE "F", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.

FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.

CONSTRUCT WITH PIPE CROWNS MATCHING.

CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.

**SECTION Y-Y**

TOP ELEVATION

RISER HT.  
VARIES

WHERE 30" TO 36" PIPE IS USED

**SECTION J-J**

FRAME, GRATE AND HOOD  
SEE STD. NO. 840.03

STEPS - STD. NO. 840.66

TOP ELEVATION

WHERE 30" TO 36" PIPE IS USED

**SECTION M-M**

TOP ELEVATION

STEPS - STD. NO. 840.66

WHERE 42" TO 54" PIPE IS USED

**DETAIL SHOWING METHOD OF RISER CONSTRUCTION**

WHERE 42" TO 54" PIPE IS USED

**SHEET 1 OF 2**

**840.02**

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR  
**CONCRETE DROP INLET**  
12" THRU 30" PIPE

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

SHEET 1 OF 1

**840.14**

7-06

ENGLISH STANDARD DRAWING FOR  
**CONCRETE DROP INLET**  
12" THRU 30" PIPE

SHEET 1 OF 1

**840.14**

**PLAN**

WITH GRATE & FRAME REMOVED

USE GLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BARS DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

CONSTRUCT WITH PIPE CROWNS MATCHING.

INSTALL 2" WEEP HOLES AS DIRECTED BY THE ENGINEER.

INSTALL STONE DRAINING, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 70M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER. CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.

**SECTION X-X**

**SECTION Y-Y**

DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)					CUBIC YARDS CONC. IN BOX		DEDUCTIONS FOR ONE PIPE	
PIPE	DIMENSIONS OF BOX & PIPE		MIN. HEIGHT	BOTTOM SLAB	WALL PERI. FT. HT.	TOTAL CONCRETE FOR MINIMUM HEIGHT, V	C.M.	R.C.
D	SPAN	WIDTH						
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026
15"	/	/	2'-3"	/	/	0.648	0.023	0.036
18"	/	/	2'-6"	/	/	0.703	0.033	0.049
24"	/	/	3'-0"	/	/	0.814	0.059	0.085
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

**7-06**

**ENGLISH STANDARD DRAWING FOR**

**CONCRETE CATCH BASIN**

12" THRU 54" PIPE

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

**PLAN OF TOP SLAB**

**SECTION S-S**

**PLAN OF BOTTOM SLAB**

**SECTION R-R**

**DOWEL**

**ELEVATION**

**ELEVATION**

**ELEVATION**

**ELEVATION**

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STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR  
CONCRETE CURB, GUTTER  
AND CURB & GUTTER

7-06

**2'-6" CURB AND GUTTER**

**1'-6" CURB AND GUTTER**

**8" X 12" OR 18" CONCRETE CURB**

**9" X 12" OR 18" CONCRETE CURB**

**EXPRESSWAY GUTTER**

**SHOULDER BERM GUTTER**

**8" X 6" MEDIAN CURB**

**VALLEY GUTTER**

**SECTION VIEW OF CURBS OR CURBS AND GUTTERS**

GENERAL NOTES:

- PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
- JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
- CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS.
- CONSTRUCT NON-TEMPLE FORMED JOINTS A MIN. OF 1 1/2" DEEP. FILL ALL CONSTRUCTION JOINTS, EXCEPT IN 8"x6" MEDIAN CURB, WITH JOINT FILLER AND SEALER.
- SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.

**LONGITUDINAL JOINT**

**TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER**

**SECTION VIEW OF JOINTS**

ENGLISH STANDARD DRAWING FOR  
CONCRETE CURB, GUTTER  
AND CURB & GUTTER

7-06

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

7-06

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ENGLISH STANDARD DRAWING FOR  
CONCRETE CURB, GUTTER  
AND CURB & GUTTER

7-06

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**TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER**

**SECTION VIEW OF JOINTS**

ENGLISH STANDARD DRAWING FOR  
CONCRETE CURB, GUTTER  
AND CURB & GUTTER

7-06

**2'-6" CURB AND GUTTER**

**1'-6" CURB AND GUTTER**

**8" X 12" OR 18" CONCRETE CURB**

**9" X 12" OR 18" CONCRETE CURB**

**EXPRESSWAY GUTTER**

**SHOULDER BERM GUTTER**

**8" X 6" MEDIAN CURB**

**VALLEY GUTTER**

**SECTION VIEW OF CURBS OR CURBS AND GUTTERS**

GENERAL NOTES:

- PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
- JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
- CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS.
- CONSTRUCT NON-TEMPLE FORMED JOINTS A MIN. OF 1 1/2" DEEP. FILL ALL CONSTRUCTION JOINTS, EXCEPT IN 8"x6" MEDIAN CURB, WITH JOINT FILLER AND SEALER.
- SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.

**LONGITUDINAL JOINT**

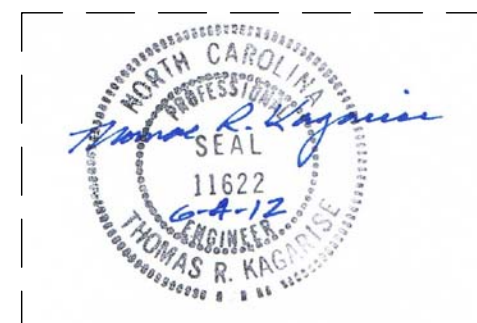
**TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER**

**SECTION VIEW OF JOINTS</**

CB #3 AND #5  
STANDARD CATCH BASIN  
NTS

**30" CURB AND GUTTER**  
NTS

PRELIMINARY DRAWING  
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CONSTRUCTION 6/4/12



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**VETERAN ENGINEERING ASSOCIATES, INC.**  
Civil Engineering Services  
Post Office Box 1625 Durham, N.C. 27702  
(919) 201-2175 (p) VEA Lic# - (C-3527)  
veteranengineeringassociates@yahoo.com

## DETAILS

**JORDAN LAKE DETAILING CENTER**

Chatham County

**CLIENT**

3726 L33HS

1001

1000000

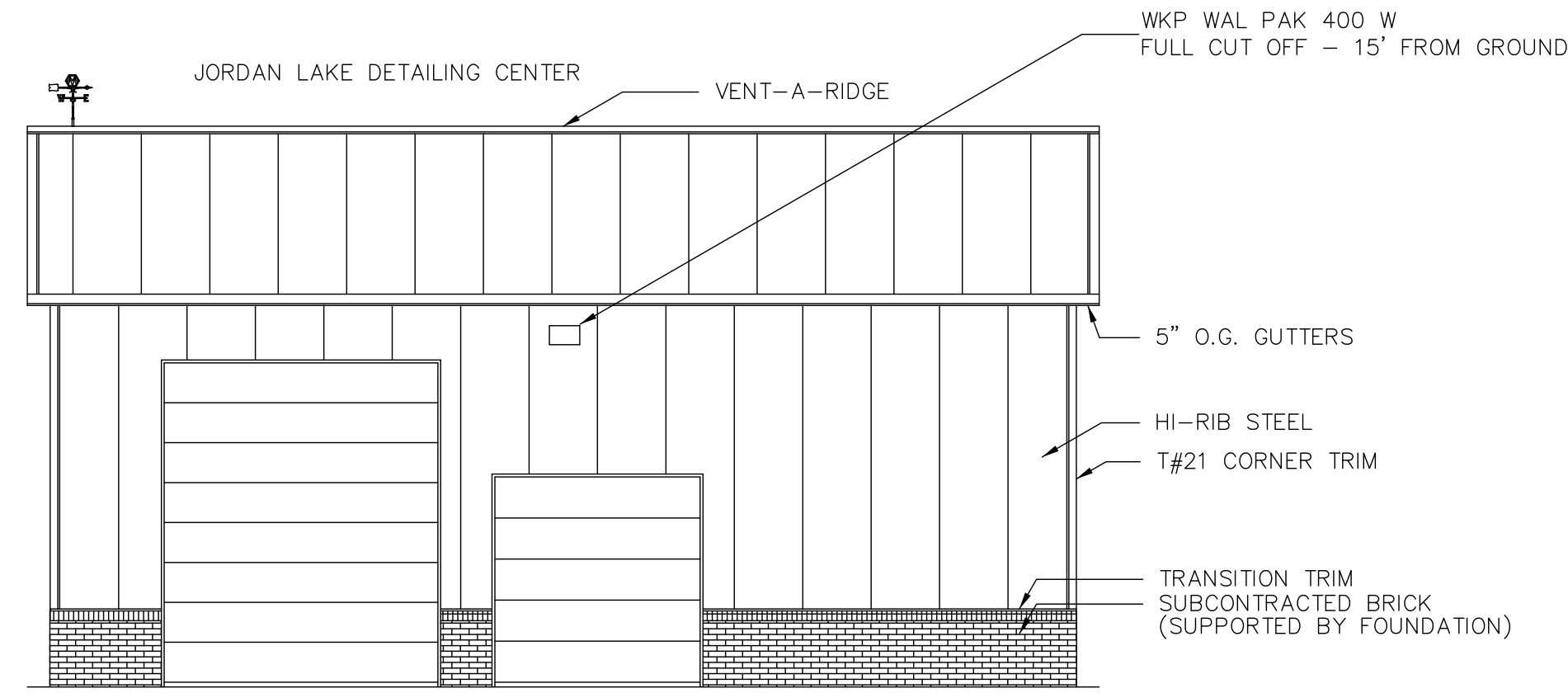
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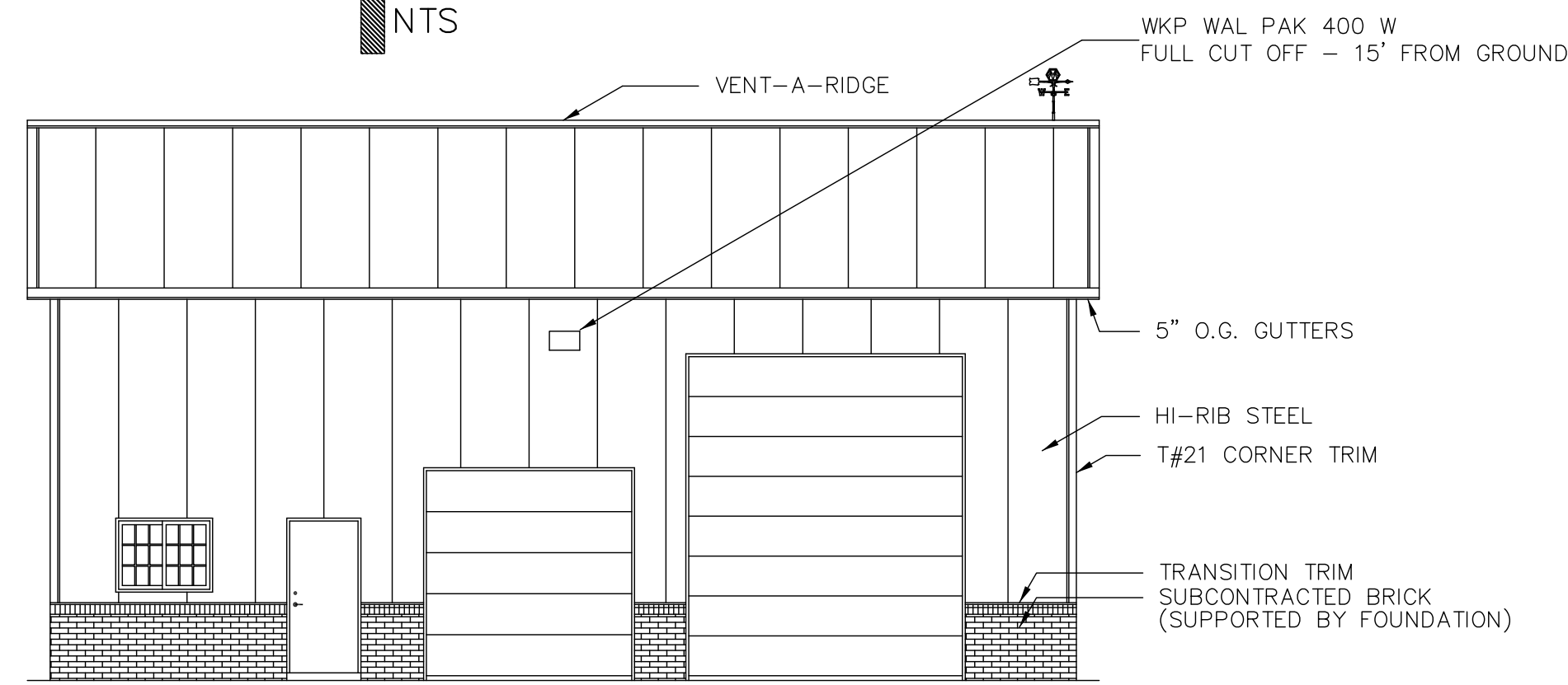
**PROVERB**

100

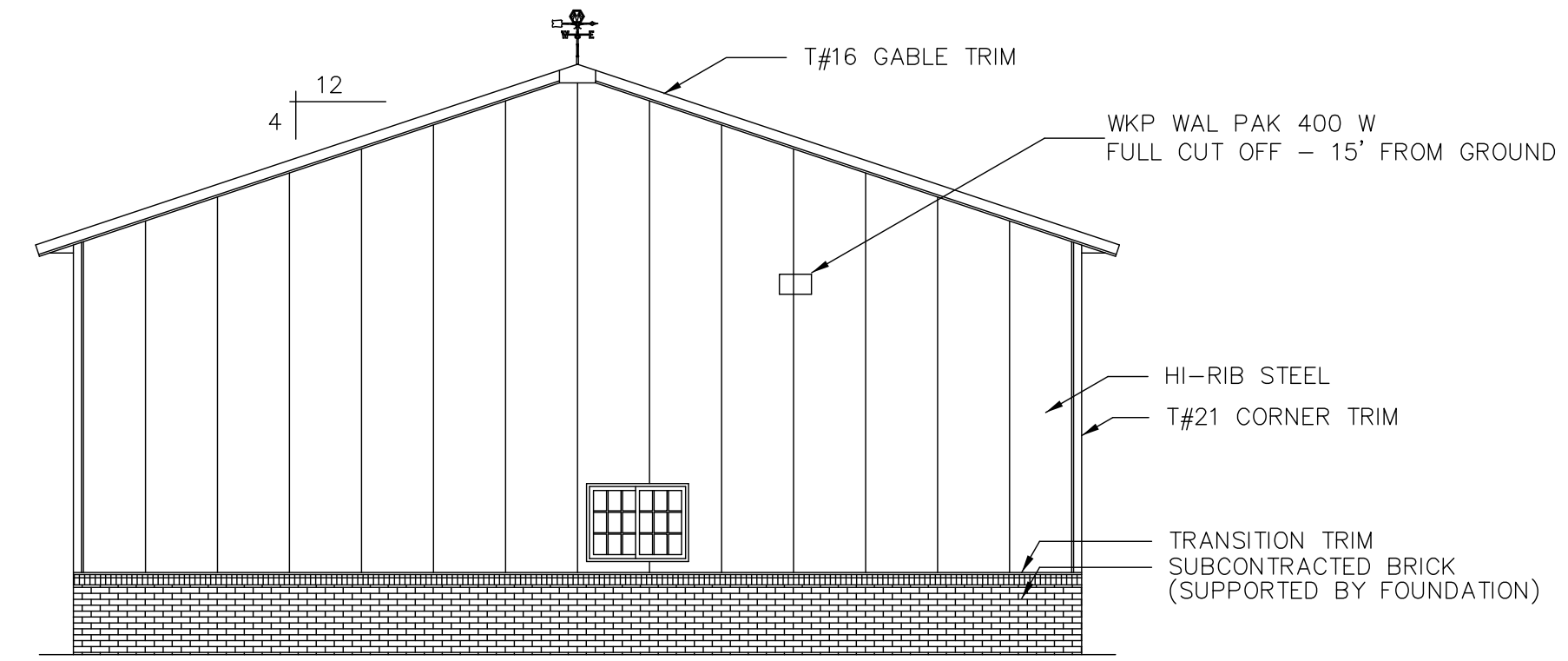




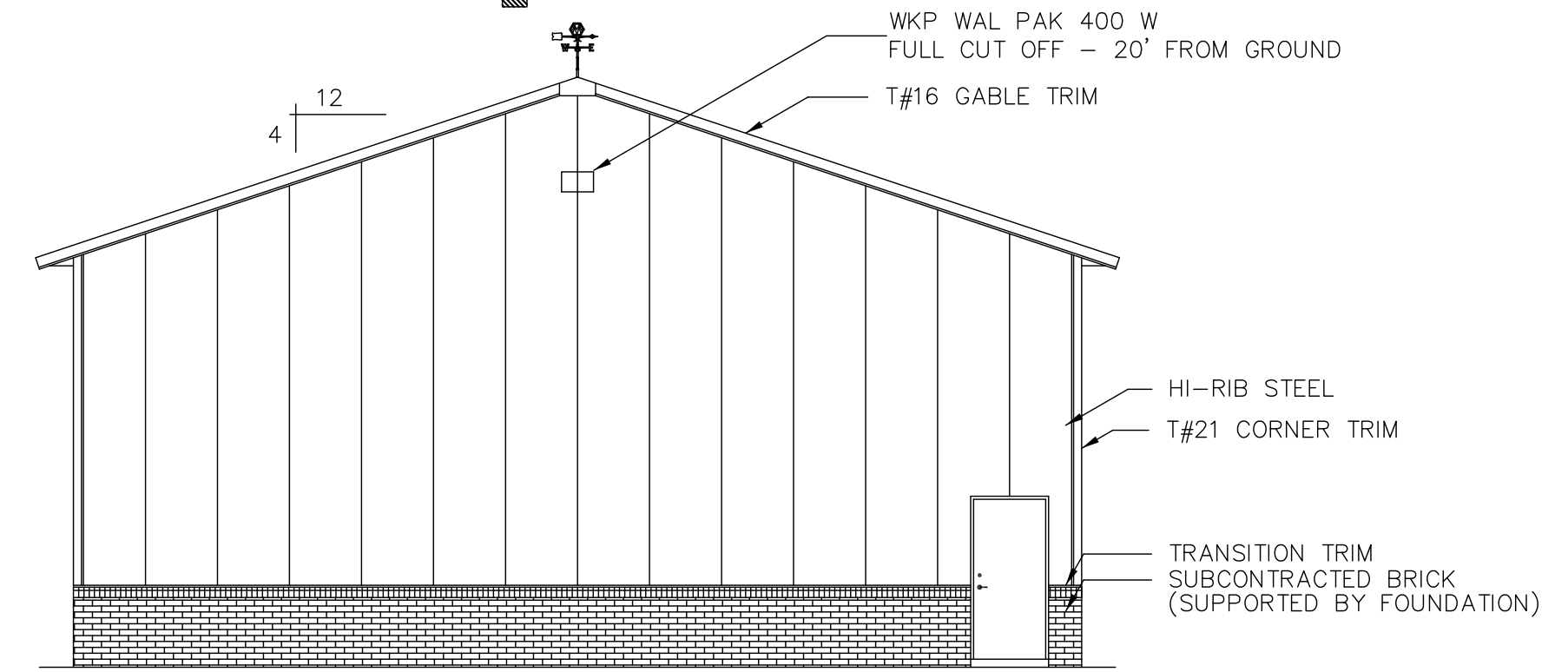
**NORTH FACE**  
NTS



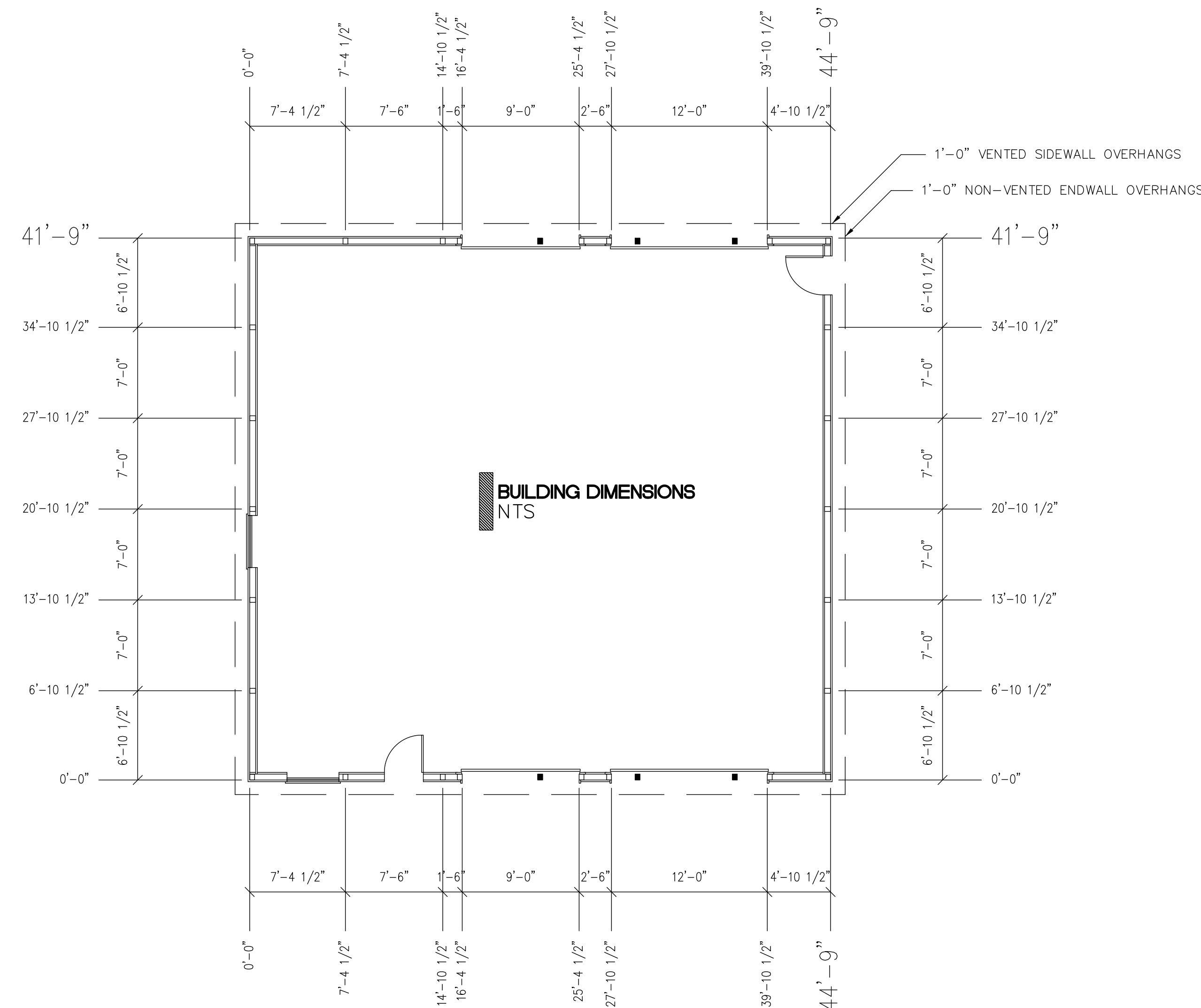
**SOUTH FACE**  
NTS



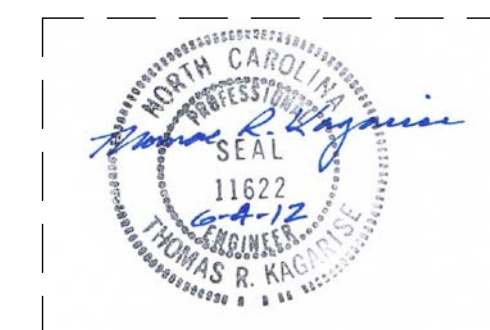
**WEST FACE**  
NTS



**EAST FACE**  
NTS



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VETERAN ENGINEERING ASSOCIATES, INC.

PROJECT NO. 0040		NO.	DATE	REVISION	BY	SHEET TITLE		CLIENT	
SCALE	1"=30'					DETAILS		OWNER	
DATE	6/4/12					JORDAN LAKE DETAILING CENTER		Derry Smith, Jr.	
DRAWN BY	VEA					Chatham County		PO BOX 311	
CHECKED BY	VEA					Moncure, North Carolina		Moncure, NC 27559	
D3	06					VETERAN ENGINEERING ASSOCIATES, INC.		Civil Engineering Services	
						11622		Post Office Box 1625	
						6-4-12		Denham, N.C. 27702	
						THOMAS R. KAGAN		(919) 201-2773 (P) VEA Lic# - (C-3527)	
								sewingengineeringassociates@yahoo.com	