



PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

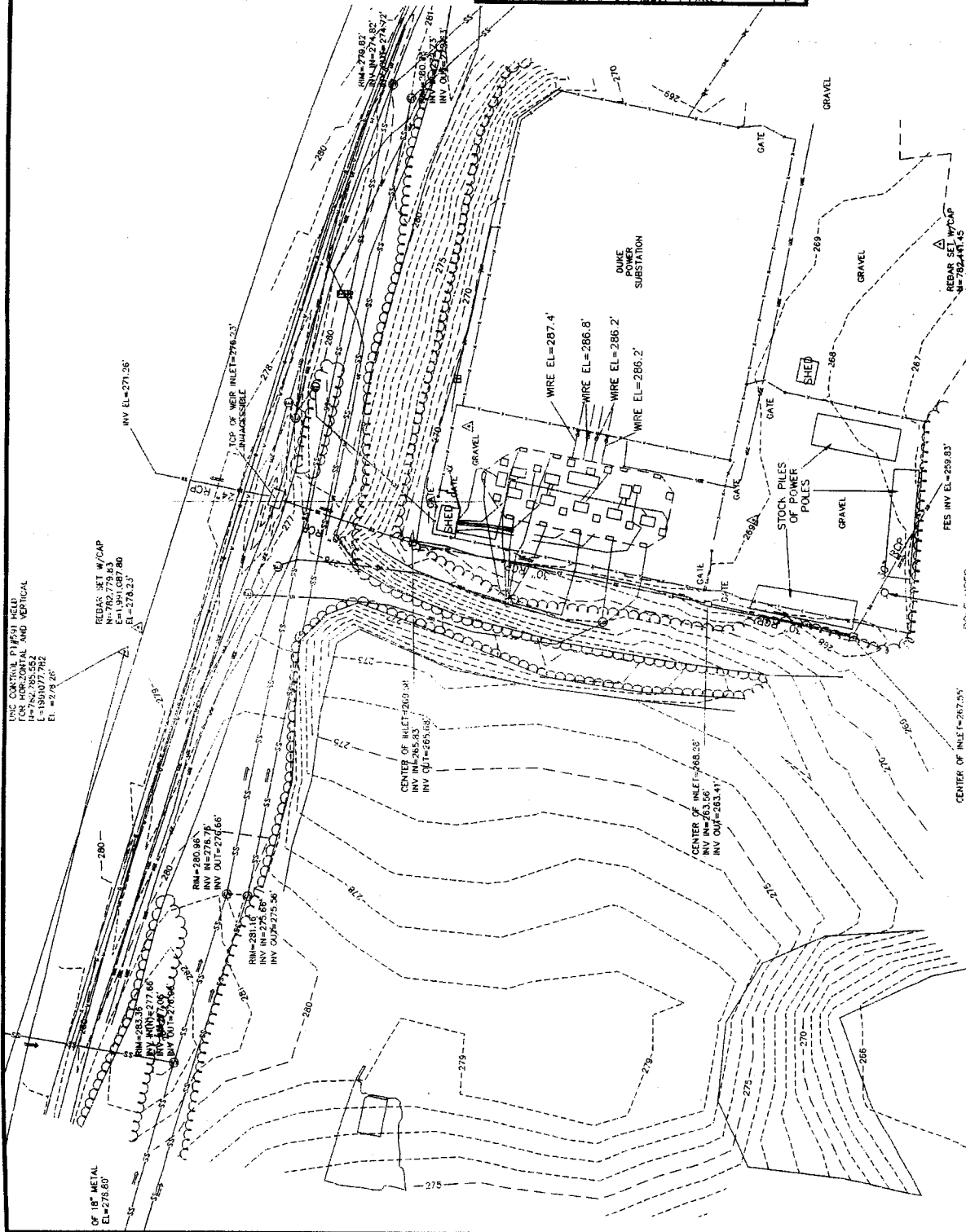
SHEET NUMBER	13
SHEET	13

**South Substation Upgrades**  
Existing Conditions

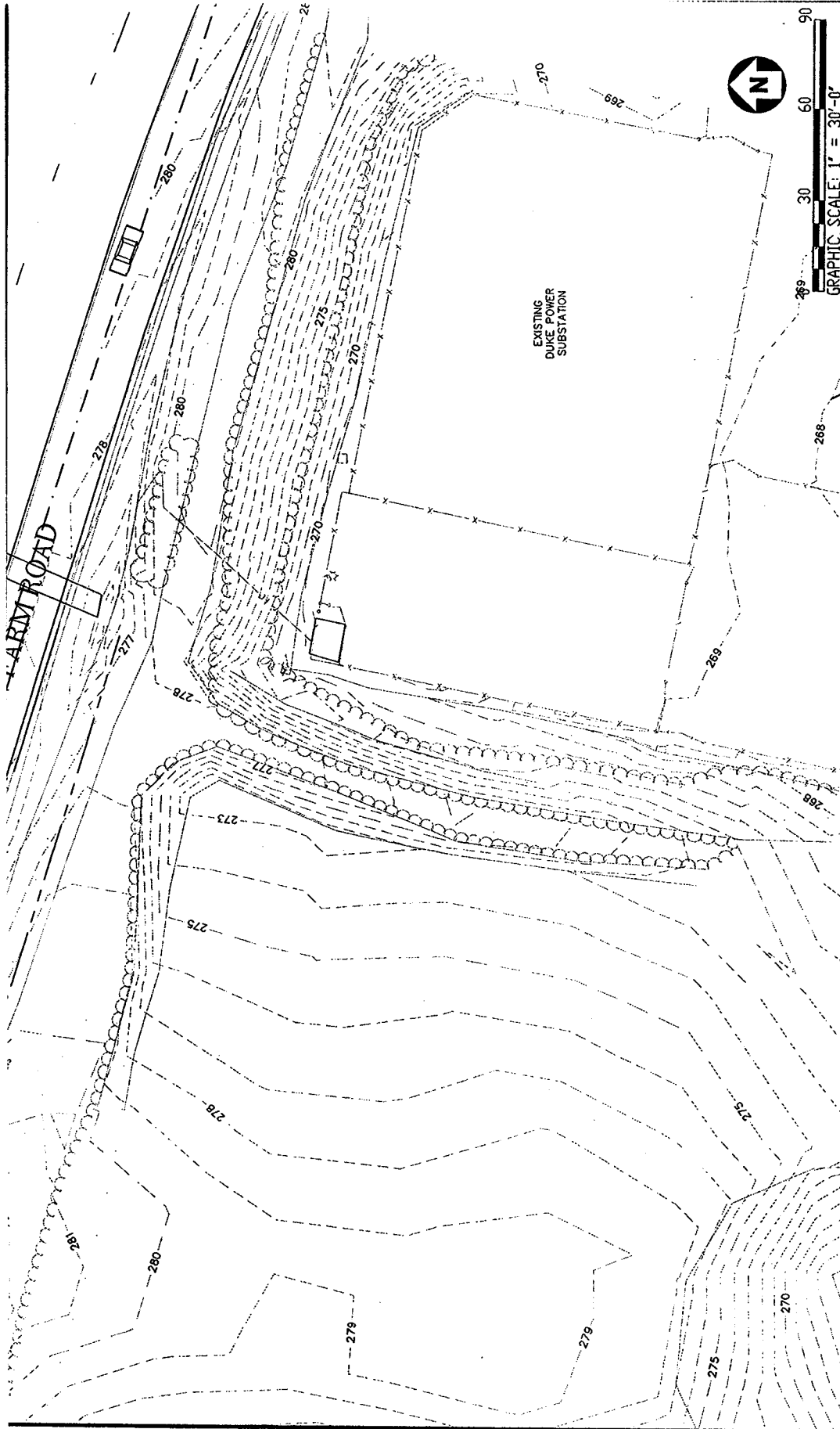


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**at Chapel Hill**  
**COGENERATION ENGINEERING**

**Carter-Burgess**  
Carter-Burgess Engineers, P.C.  
5811 GLENWOOD AVENUE, SUITE 300  
RALEIGH, NORTH CAROLINA 27612



14



T1

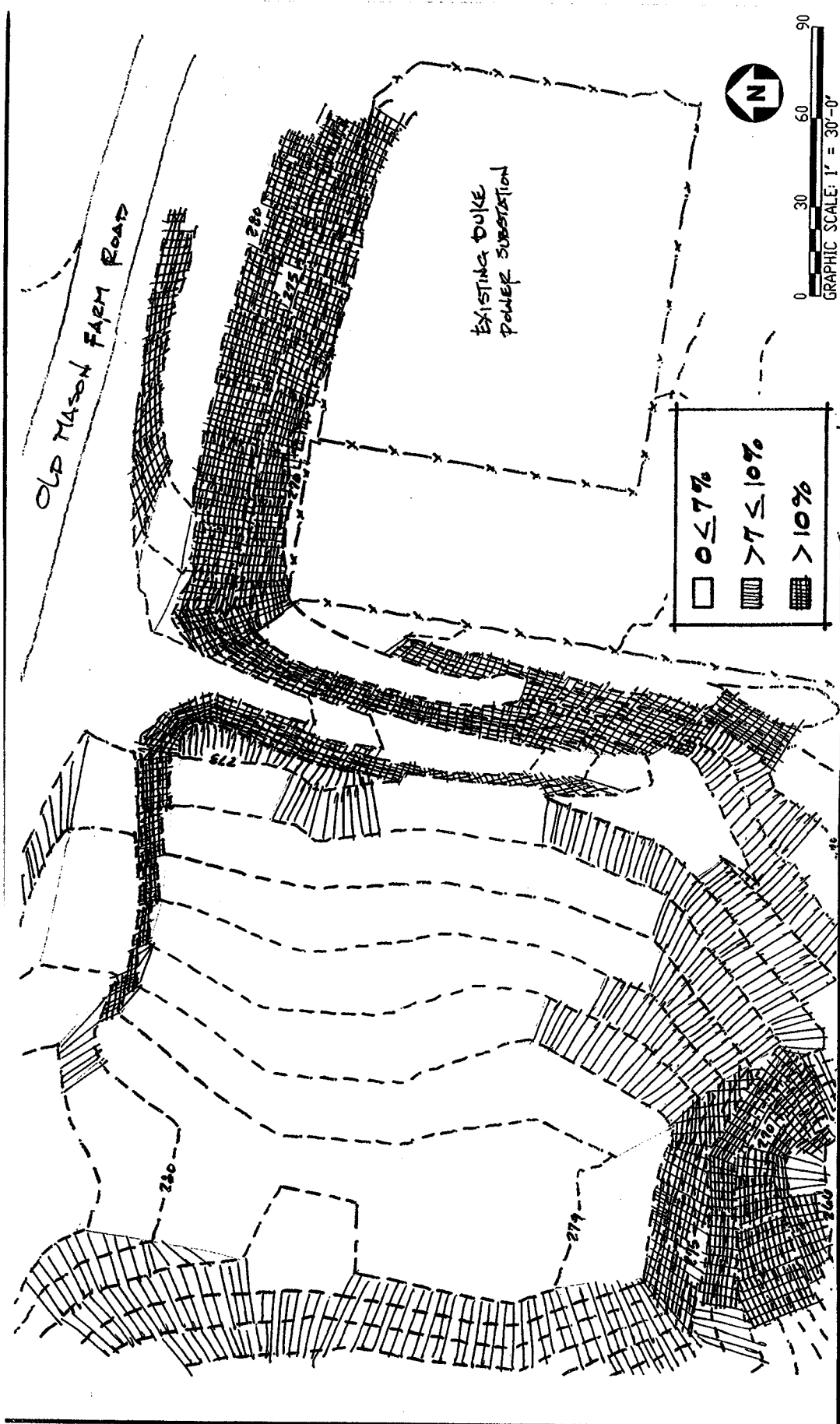
**South Substation Upgrades**  
 Topography



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15

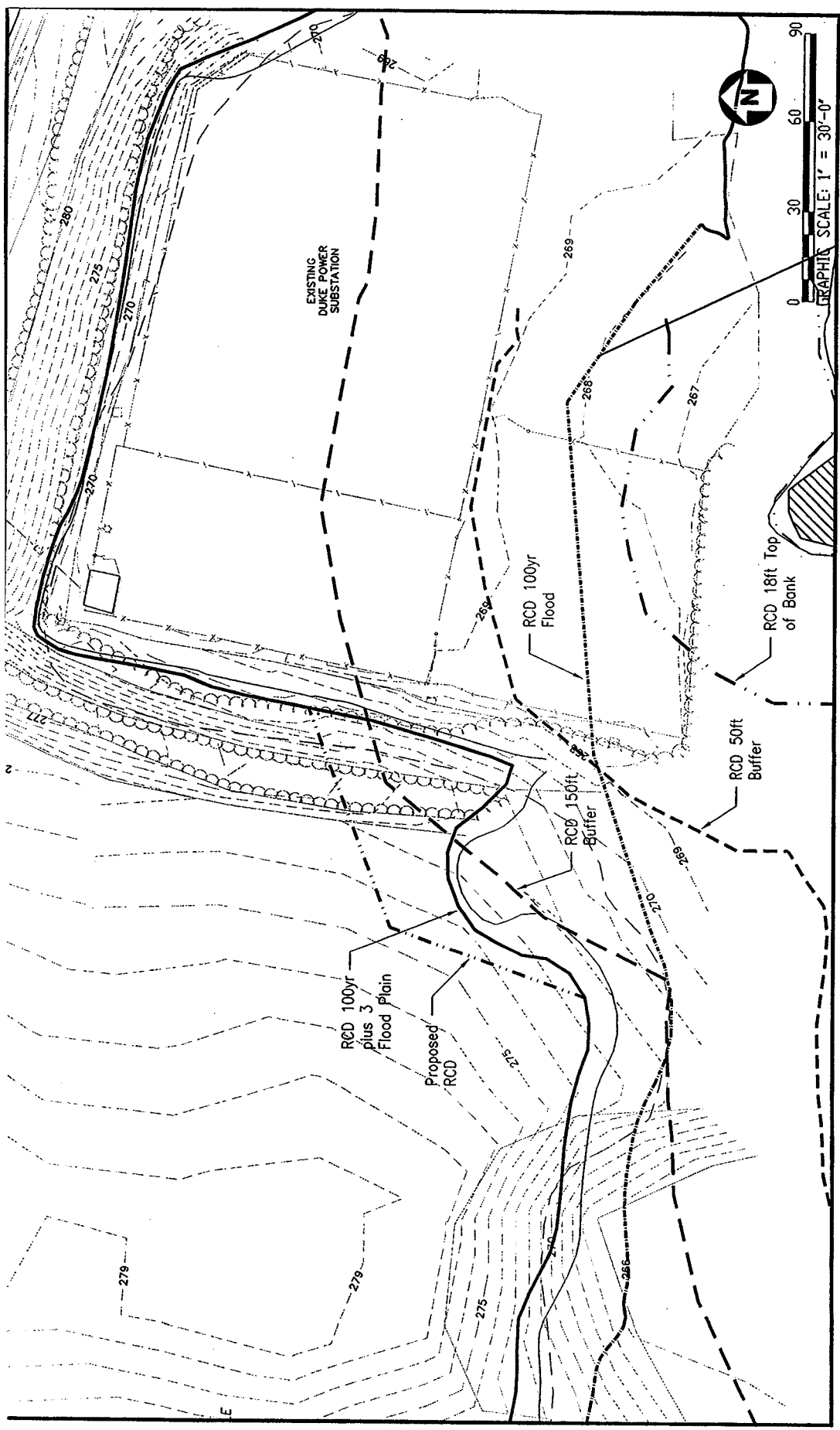


SL1

South Substation Upgrades  
Slopes

  
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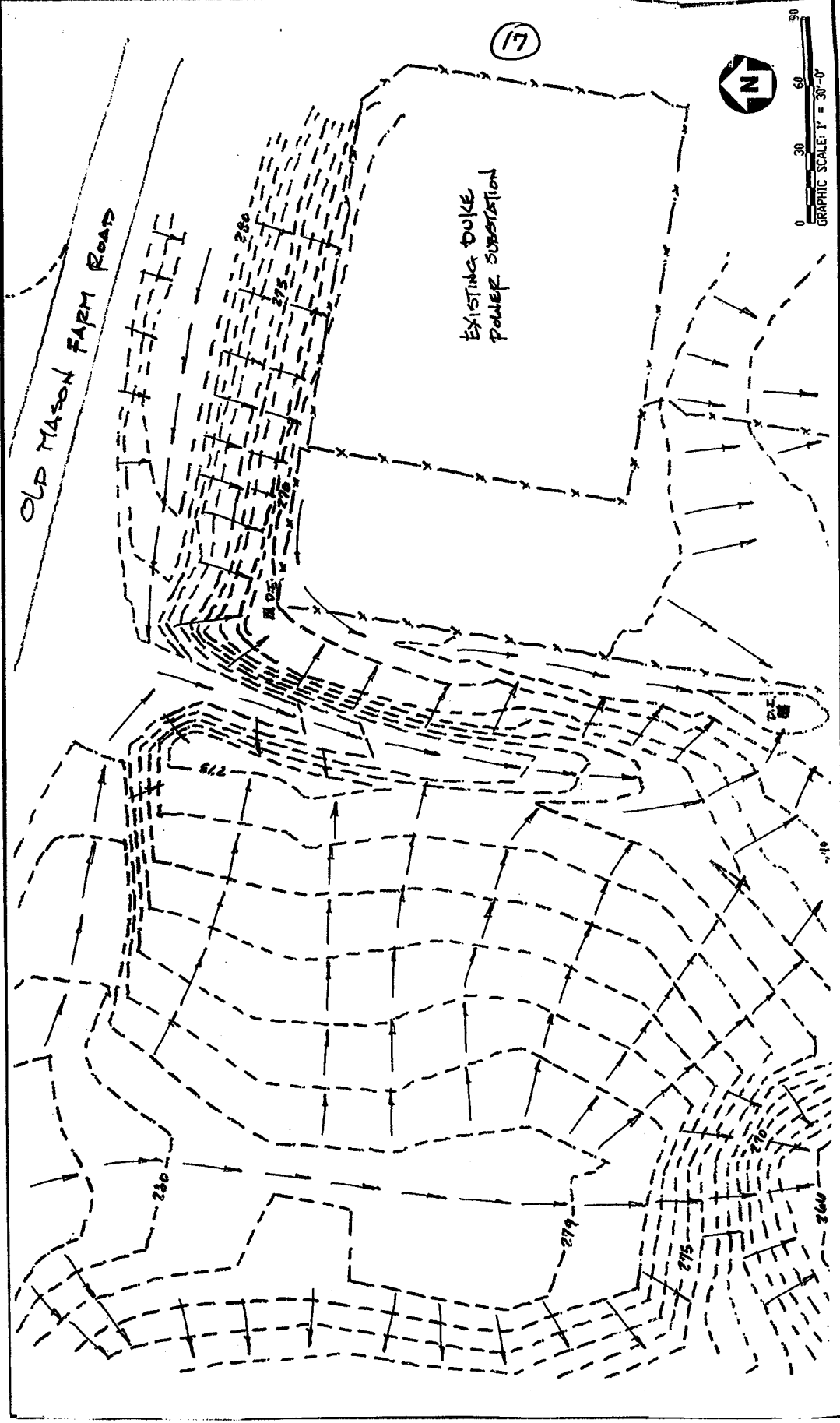
HI

**South Substation Upgrades**  
Hydrological




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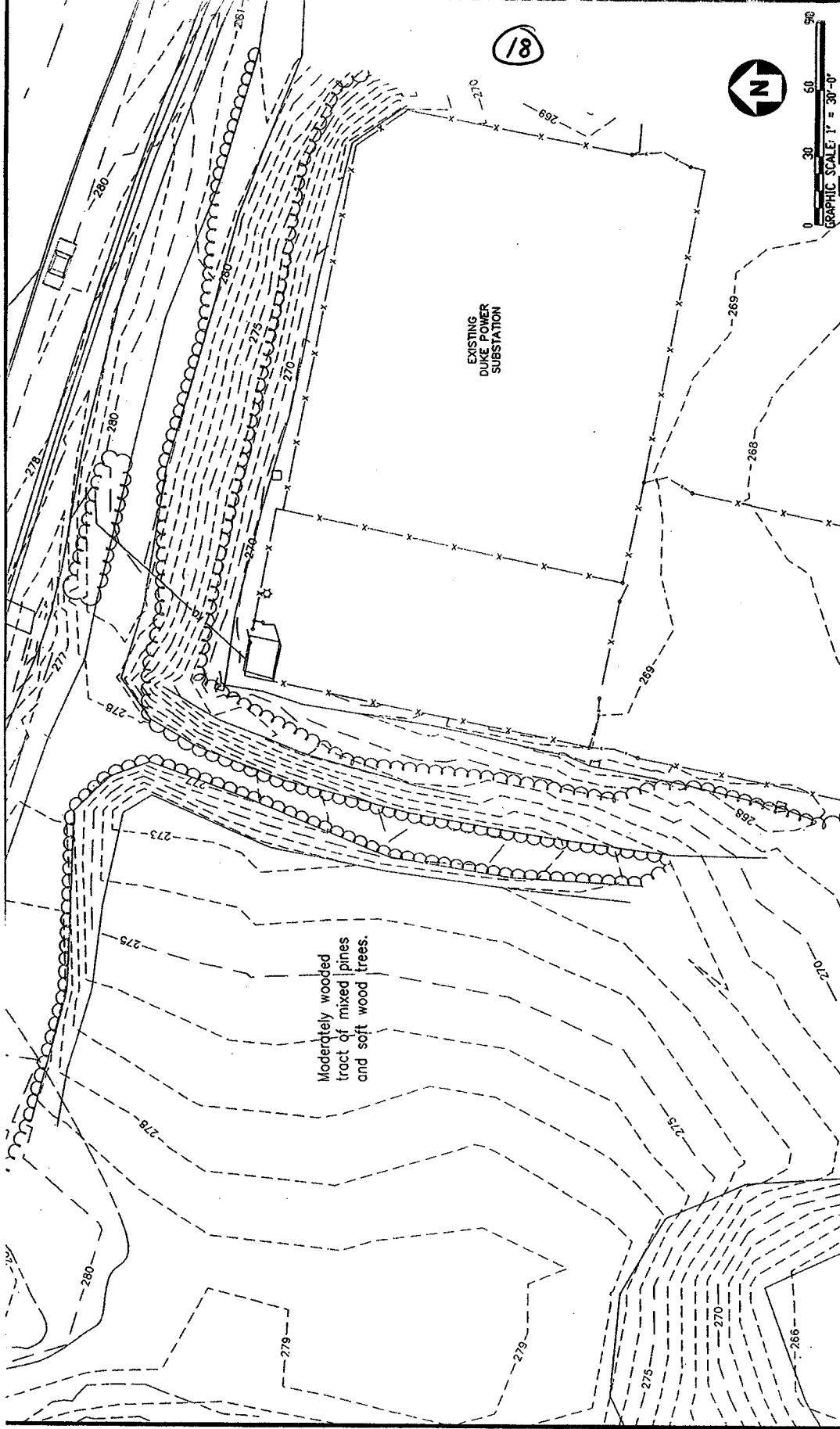
DI

South Substation Upgrades  
Drainage




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VI

**South Substation Upgrades**  
Vegetation



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RALEIGH, NORTH CAROLINA 27612

**NOTES BY SYMBOL**

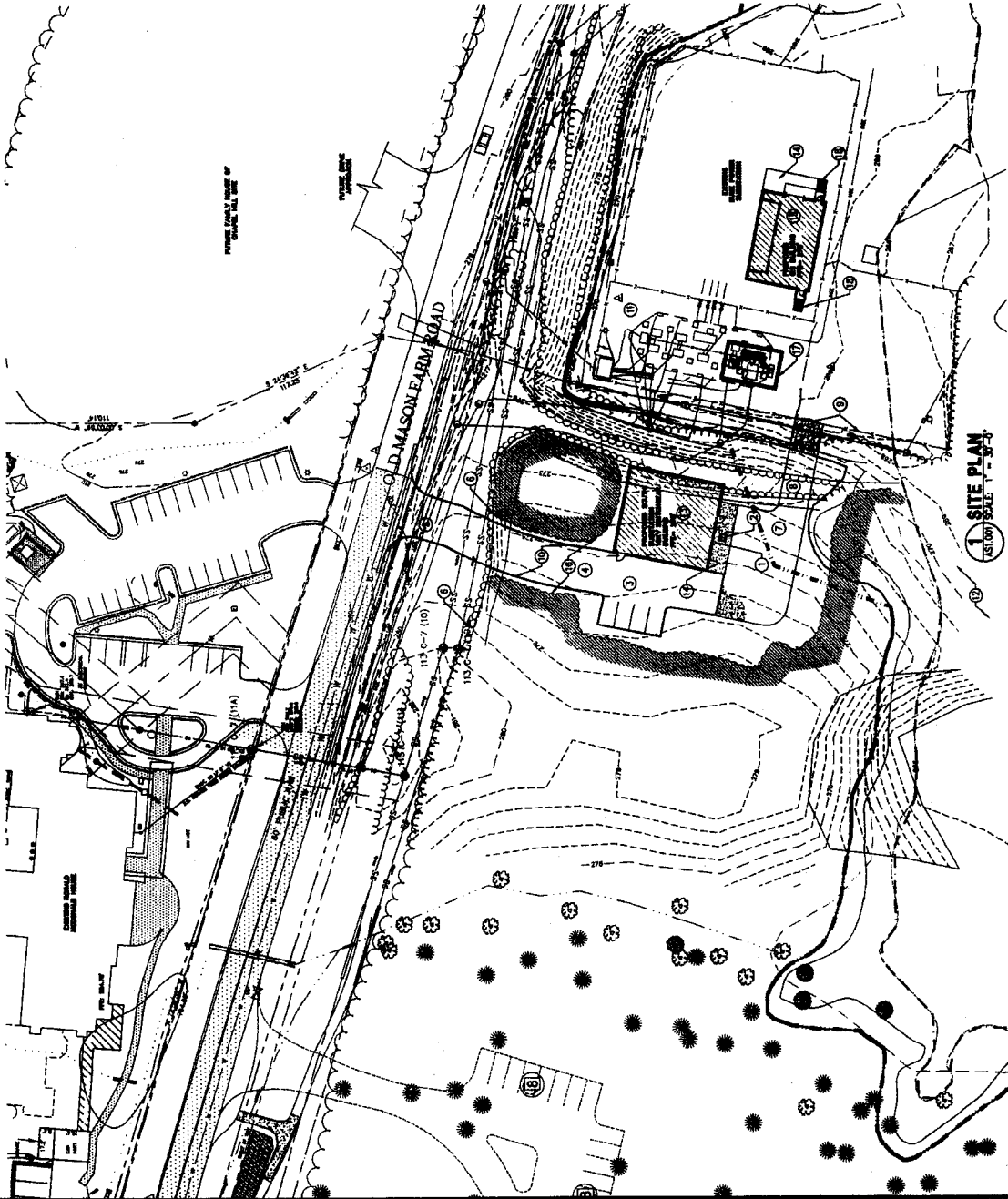
1. OVERHEAD DOOR LOCATION.
2. HATCH DOOR TO BASEMENT LEVEL.
3. PROPOSED ASPHALT PARKING LOT.
4. PROPOSED ASPHALT DRIVE.
5. PROPOSED CONCRETE DRIVE APPROACH AS PER NC-DOT RECOMMENDATIONS.
6. EXISTING TREE LINE.
7. PROPOSED GRAVEL YARD.
8. PROPOSED GRAVEL DRIVE.
9. EXISTING GATE AND FENCE.
10. PROPOSED CONCRETE CURBS AND GUTTER (TYPICAL).
11. PROPOSED EQUIPMENT, OVERHEAD BUS AND STRUCTURES IN THIS AREA TO BE REMOVED.
12. BUILDING, DRIVE AND PARKING LOT CONSTRUCTION DO NOT ENDOURAGE ON WETLANDS AS DELINEATED IN THE JOHN P. MCDONNELL COMPANY, INC. LINC. MASON FARM TRACT WETLAND STUDY DATED 15 JANUARY 2004.
13. NEW SOUTH SUBSTATION BUILDING, APPROXIMATELY 2,700 SQUARE FEET, BUILDING HEIGHT = 20' ABOVE GRADE.
14. PROPOSED CONCRETE PAVING.
15. NEW GAS INSULATED SWITCHGEAR BUILDING, APPROXIMATELY 1,822 SQUARE FEET, BUILDING HEIGHT = 20' ABOVE GRADE.
16. PROPOSED TREE LINE.
17. 100-12.47 KV TRANSFORMER WITH OIL CONTAINMENT BASKIN.
18. CONCRETE STEPS AND LANDINGS.

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PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION




GRAPHIC SCALE: 1" = 30'-0"



1 SITE PLAN  
SCALE: 1" = 30'-0"

SHEET NUMBER  
**AP1.001**  
SHEET OF

SOUTH SUBSTATION UPGRADES  
SITE DESIGN REVIEW  
**SITE PLAN**  
DATE: 05-14-04  
FILE NUMBER: 00000000  
CADD: 4/07/03  
REV: 3/1

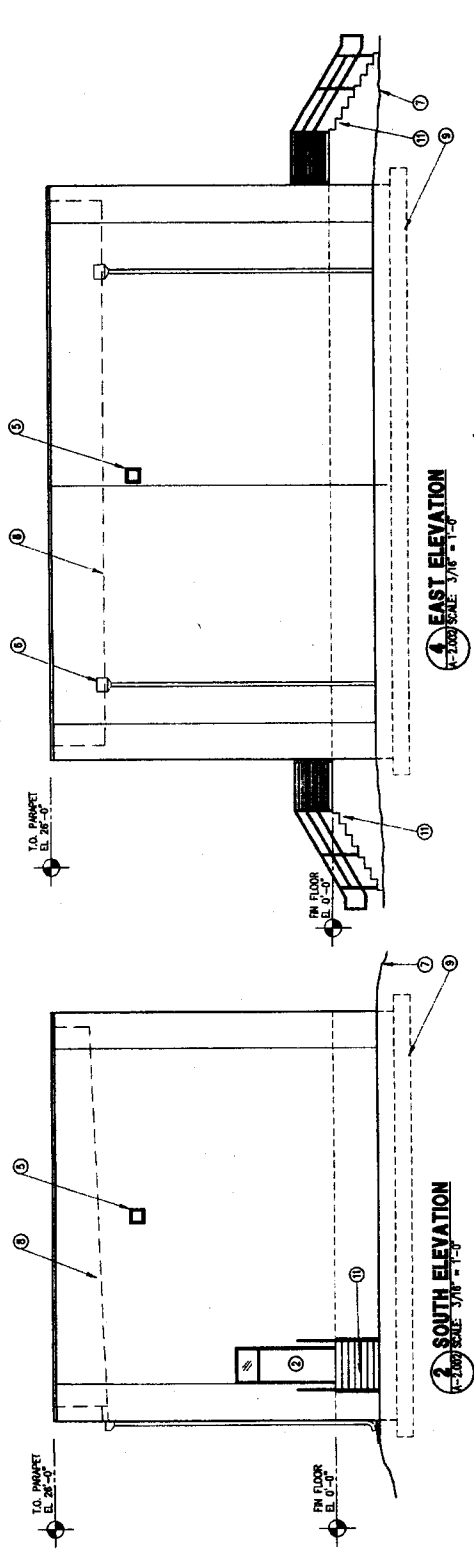
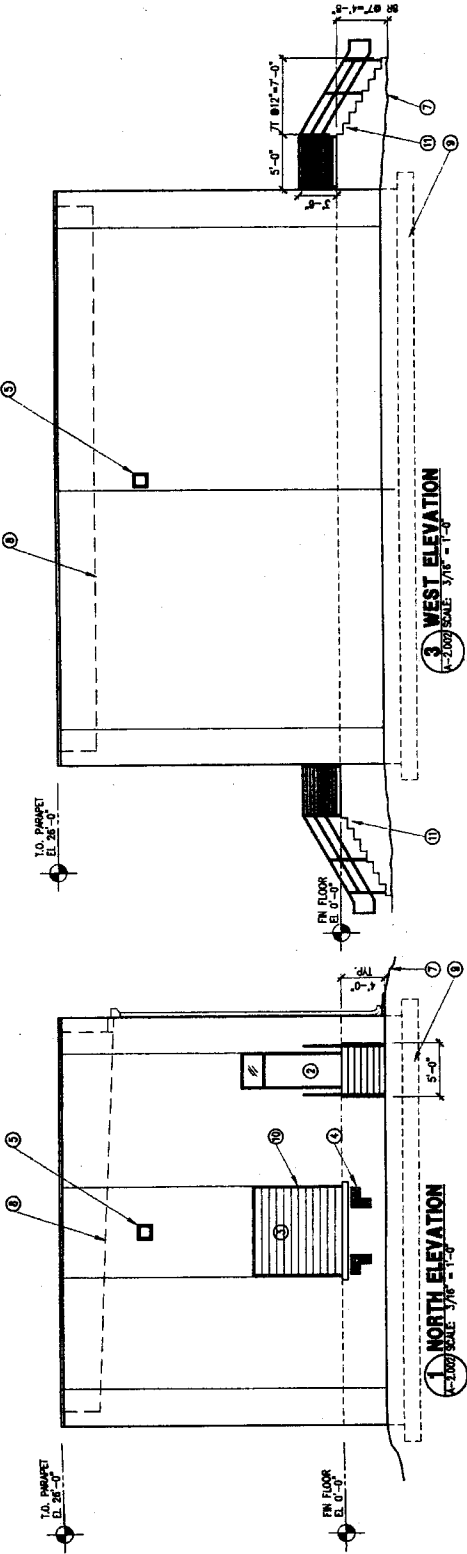
  
**The University of North Carolina  
at Chapel Hill**  
**SOUTH SUBSTATION SITE DESIGN**

NO.	DATE	REVISION

**Carter-Burgess**  
C.B. Carter-Burgess, Inc.  
501 GLENWOOD AVE., SUITE 300  
RALEIGH, NORTH CAROLINA 27612

**NOTES BY SYMBOL**

1. NOT USED.
2. HOLLOW METAL DOOR AND FRAME AS SCHEDULED.
3. COILING OVERHEAD DOOR AS SCHEDULED.
4. DOCK BUMPERS.
5. SURFACE WALL MOUNTED LIGHT FIXTURE; REFER TO ELECTRICAL.
6. THROUGH WALL ROOF SCUPPER WITH COLLECTOR AND DOWNSPOUT.
7. FINISH GRADE.
8. LINE OF ROOF BEYOND (SHOWN DASHED).
9. LINE OF FOUNDATION FOOTING BEYOND (SHOWN DASHED).
10. PAINTED STEEL PIPE BALLARD FILLED WITH CONCRETE AS DETAIL.
11. CONCRETE LANDING AND STEPS.



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PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

0 2 4 6 8 10 12 14 16  
GRAPHIC SCALE 3/16" = 1'-0"

SOUTH STATION UPGRADES  
SITE DESIGN REVIEW  
GAS INSULATED SWITCHGEAR BUILDING  
EXTERIOR ELEVATIONS  
SEE DESIGN REVIEW  
CODE: 40073



The University of North Carolina  
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SOUTH STATION SITR DESIGN

NO.	DATE	REVISION

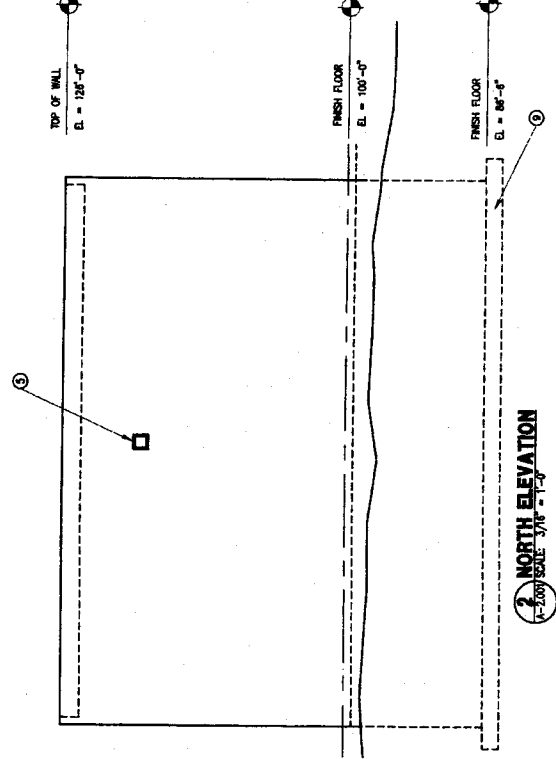
**Carter-Burgess**  
647 Ardmore Avenue, P.O. Box 300  
5811 GLENWOOD AVE., SUITE 300  
RALEIGH, NORTH CAROLINA 27612

SHEET NUMBER  
**A-2.002**

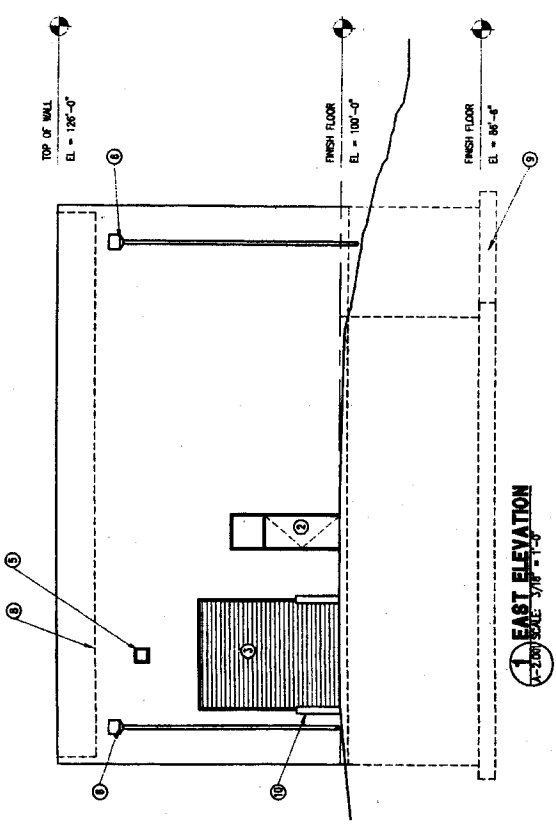


**NOTES BY SYMBOL**

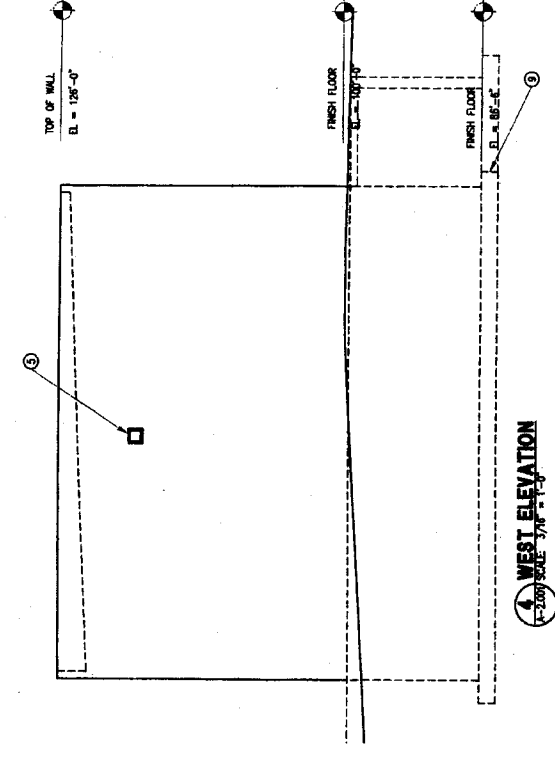
1. NOT USED.
2. HOLLOW METAL DOOR AND FRAME AS SCHEDULED.
3. COLLING OVERHEAD DOOR AS SCHEDULED.
4. NOT USED.
5. SURFACE WALL MOUNTED LIGHT FIXTURE, REFER TO ELECTRICAL.
6. THROUGH WALL ROOF SLOPPER WITH COLLECTOR AND DOWNSPOUT.
7. NOT USED.
8. LINE OF ROOF BEYOND (SHOWN DASHED).
9. LINE OF FOUNDATION FOOTING BEYOND (SHOWN DASHED).
10. PAINTED STEEL PIPE BOLLARD FILLED WITH CONCRETE AS DETAILED.



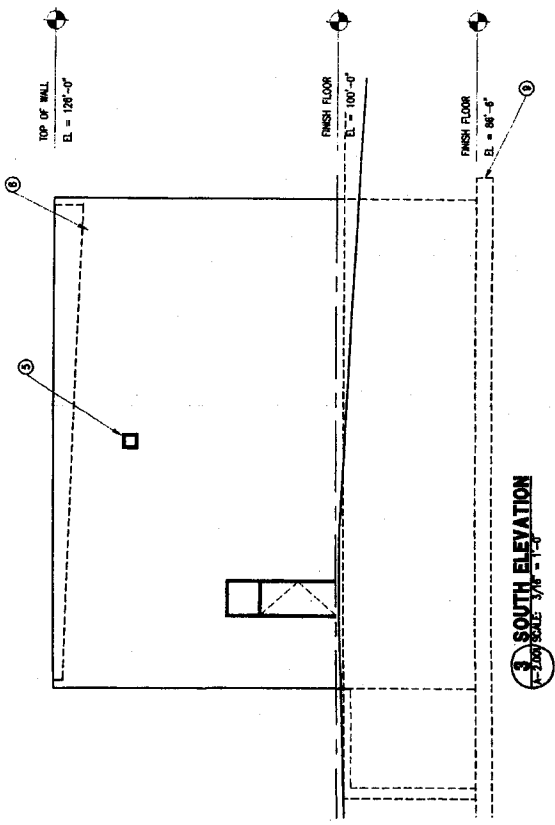
**2 EAST ELEVATION**  
SCALE: 3/8" = 1'-0"



**2 NORTH ELEVATION**  
SCALE: 3/8" = 1'-0"



**4 WEST ELEVATION**  
SCALE: 3/8" = 1'-0"



**3 SOUTH ELEVATION**  
SCALE: 3/8" = 1'-0"

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION




(21)

NO.	DATE	REVISION

**Carter Burgess**  
 641 Westwood Parkway, S.E.  
 SUITE 300  
 RALEIGH, NORTH CAROLINA 27612

The University of North Carolina  
 at Chapel Hill  
**SOUTH SUBSTATION SITE DESIGN**



SOUTH SUBSTATION UPGRADES  
 SITE DESIGN REVIEW  
 SOUTH SUBSTATION  
 EXTERIOR ELEVATIONS

FILE NUMBER: 00051002  
 DATE: 03-14-24  
 SHEET NUMBER: A-2.001  
 SHEET OF: 07

DATE: 03-14-24  
 SHEET: 07 OF 07