

PLANT LIST		UNC South Substation		
BOTANICAL NAME	COMMON NAME	Size	Root	Qty
<i>Carpinus caroliniana</i>	Ironwood	5-6' H	B&B	2
<i>Ilex opaca</i>	American Holly		7 gal	2
<i>Illicium parviflorum</i>	Tree Anise		3 gal	14
<i>Juniperus virginiana</i>	Eastern Red Cedar	5-6' H	B&B	7
<i>Myrica cerifera</i>	Wax Myrtle		3 gal	16

**Meadow Restoration**

**Site Preparation**  
 Have owner verify any vulnerable underground wires or utilities.  
 Flag certain desirable young trees (Tulip Poplar, Redbuds, Winged Sumac, perhaps a few Gums) for preservation.  
 Remove surface rocks and stumps.  
 Spray Roundup on unwanted growth. Remove by roots if possible.  
 After spraying, wait a few days before planting, as directed by instructions.

**Establishment**  
 Very lightly till the ground.  
 Dig small trenches to delineate borders between lawn areas, meadow islands, and woodland areas.  
 Plant desired number of grasses and flowers. In our minds, roughly half of these plants will be some form of Broom Sedge and/or Little Bluestem. The remainder should be young plants of Pink Muhly, "Sioux Blue" Indian grass, Switch Grass, Big Bluestem, and wildflowers, distributed to your liking.  
 Establish wildflowers in visible patches.  
 Water the young plants of meadow.  
 Fill in the gaps with broom sedge seed. A 5 lb. bag should be enough for the meadow areas.  
 Lightly cover the meadow areas with broom sedge mulch if available. A very thin covering of pine straw would also be suitable. The covering should help minimize seed loss from birds and insects, and will help delineate the spaces set aside as meadow during the winter and spring.  
 Cover the woodland areas with desired quantity of pinestraw mulch.  
 Plant trees and shrubs according to planting plan.

**Maintaining the meadow**  
 A successional forest will eventually develop if steps are not taken to maintain the meadow. In a natural setting, occasional fires would perform this function. Periodic mowing and selective weeding and/or spraying must be employed.  
 During early spring, and throughout the growing season, be on the lookout for fescue/bluegrass shoots. Careful use of Roundup or similar herbicide should be effective.  
 During the first year after the establishment, you will need to watch your developing meadow closely. The meadow areas may need to be mowed several times during the first year to limit competition from invasive plants and to keep woody plants low. Understand, however, that mowing during the spring will cut down wildflowers before they have bloomed. Mowing after mid-July will affect your broom sedge and late-blooming flowers, limiting the meadow's overall beauty in late summer and autumn. One option is to mow in early summer after spring wildflowers have faded, and playing it by ear after that. Experiment. Each year will be different, but you'll figure out how you like to keep it. As your meadow matures and becomes sustainable, it will require less frequent mowing. For a natural look that takes full advantage of each season's glory, mow only in late winter. For a shorter, more manageable look, mow a few other times as well.  
 Though your native plants are drought-resistant, they should be watered during the first year in very hot, dry weather. In future years they will require very little watering.  
 As you enjoy spending time in or around these natural areas, pull out invasive weeds by the roots. Time spent in this task should diminish over time as well.  
 Allow colonizing native plants such as sumac to grow as you see fit. Many native plants are hardy and attractive to wildlife, such as birds or butterflies. Capitalize on these opportunities. A bluebird house may provide you and your family years of entertainment.  
 Manage your meadow to your liking. It will produce different results every year. It won't remain static. Enjoy its scents, sounds, wildlife, and constantly shifting beauty.

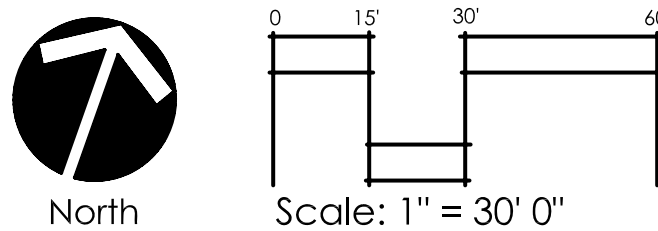
**Meadow Plants**

- Grasses**  
*Andropogon gerardii* (Big Bluestem) – Plant very sparingly; grows very tall. Use for screening or dramatic height in certain places.  
*Andropogon ternarius* (Split-beard Broom Sedge) – Similar to virginicus but more colorful.  
*Andropogon virginicus* (Broom Sedge) – Performs well in full sun, and is drought-tolerant. Attractive in broad sweeps, especially in autumn.  
*Muhlenbergia capillaris* (Pink Muhly, Purple Muhly) – Very colorful native. Nice as a specimen plant.  
*Panicum virgatum* (Switch Grass) – Common member of native meadows.  
*Schizachyrium scoparium* (Little Bluestem) – Attractive with broom sedge in broad sweeps, especially in autumn. Select for color.  
*Sorghastrum nutans* (Indian Grass "Sioux Blue") – Very attractive and heat tolerant. Recommended for Southeastern U.S.
- Wildflowers**  
*Asclepias tuberosa* (Butterfly Weed) – Direct plant; do not seed.  
*Aster* spp. (*A. novae angliae* or *A. patens*) – Plug if possible.  
*Coreopsis lanceolata* (Lanced-leaved Coreopsis) – Seed or plant directly. Both methods are successful.  
*Echinacea purpurea* (Purple Coneflower)  
*Gallardia aristata* (Gallardia or Indian Blanket)  
*Oenothera biennis* (Common Evening Primrose) – Use very sparingly.  
*Rudbeckia hirta* (Black-eyed Susan) – May require replanting after several years.  
*Solidago* spp. (Goldenrods)  
 Plant additional species as you please. If possible, select hardy and attractive natives that will not outcompete other plants.
- Woodland Edge Shrubs and Understory Trees**  
*Rhus* sp. (Smooth, Shining Sumac) There are many varieties of sumac which will mow well and outcompete other woody vegetation  
*Cornus florida* (Flowering Dogwood)  
*Cercis canadensis* (Redbud) Native small understory tree which can be planted at woodland edge for transition and focal point.  
*Chionanthus virginianus* (White Fringetree) Great woodland and Understory Naturalizing Tree  
*Aesculus pavia* (Red Buckeye) Plant in light shade of established pines  
*Sambucus canadensis* (American Elder) Moist ditches – showy shrub (5-12 ft. high)

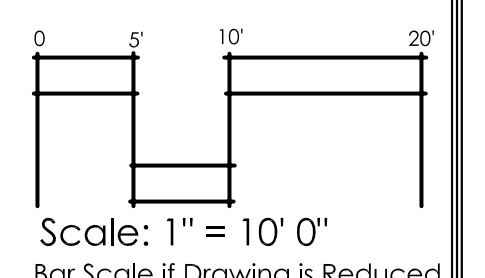
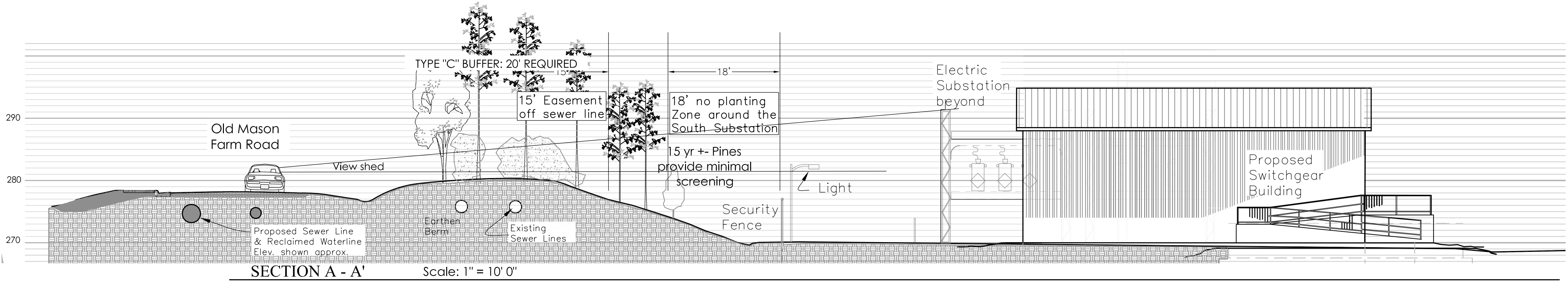
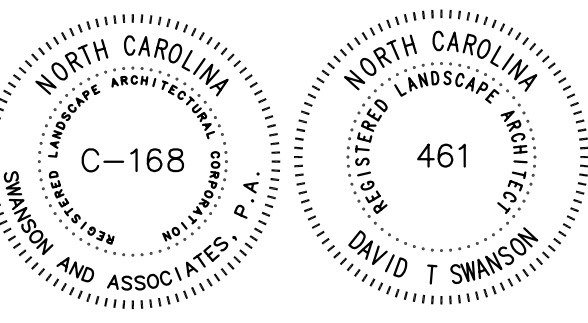
Supplement the existing pines with native Red Cedars, American Hollies and other full growing shrubs/understory trees. Thin out the existing 15 yr. + pine trees as they no longer provide effective screening due to the age and upright character. Also the taller trees pose a hazard to the electric substation and tap roots may interfere with the OWASA sewer lines.  
 New evergreen naturalized screening to block view from edge of drive.

**SOUTH SUBSTATION Key Map**

**PLAN VIEW**



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 10/01/07  
 NO. DATE

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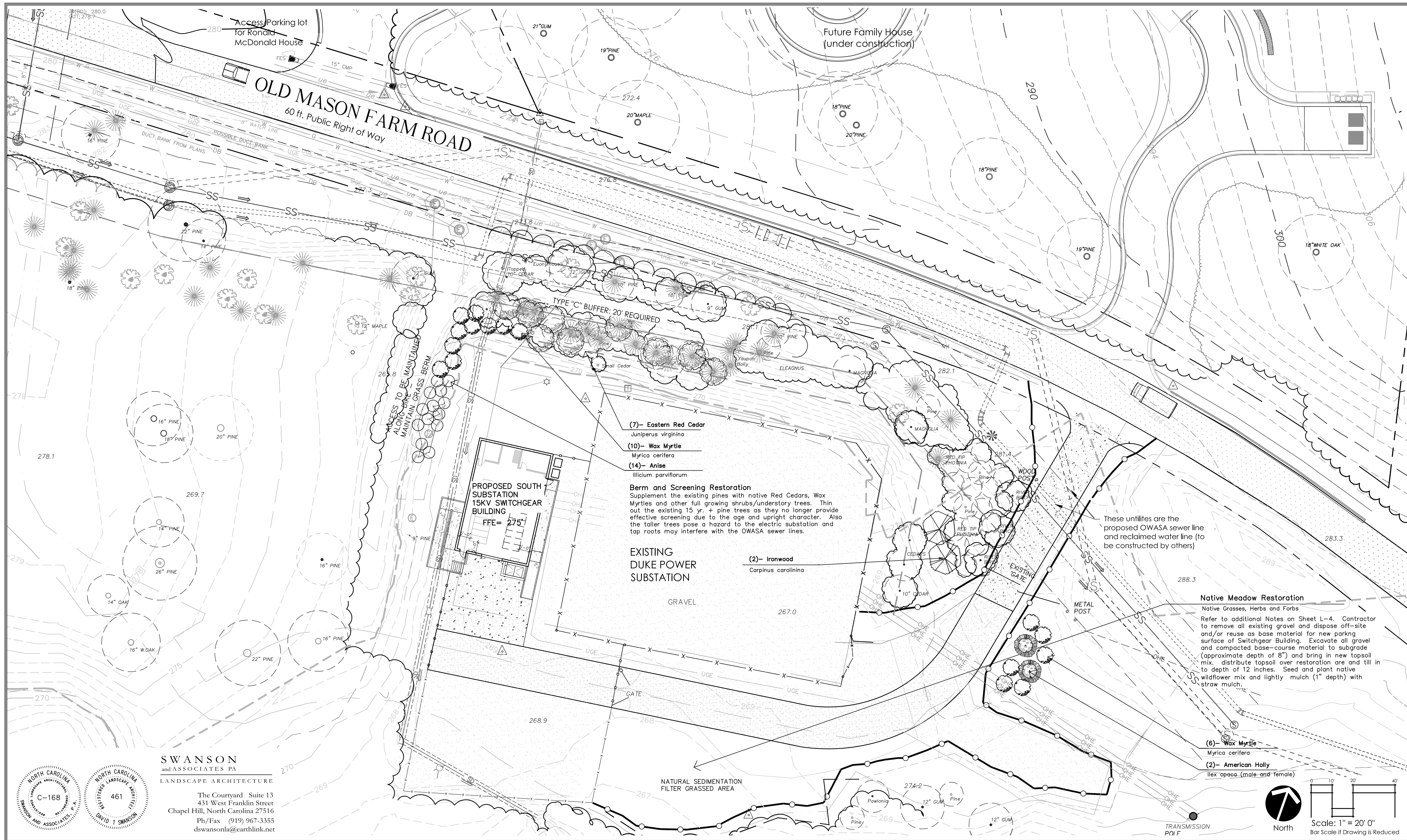
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**THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL**

**SOUTH SUBSTATION UPGRADE**

SUBSTATION ELECTRICAL SYSTEM IMPROVEMENTS  
 SOUTH SUBSTATION  
 LANDSCAPE PLANT SCHEDULE SECTIONS  
 S.U.P. PLAN SUBMITTAL  
 CODE: 40323  
 ITEM: 311  
 FILE NUMBER: 030581001  
 DATE: 10/01/07

SHEET NUMBER:  
**L - 4**  
 SHEET 4 OF 4



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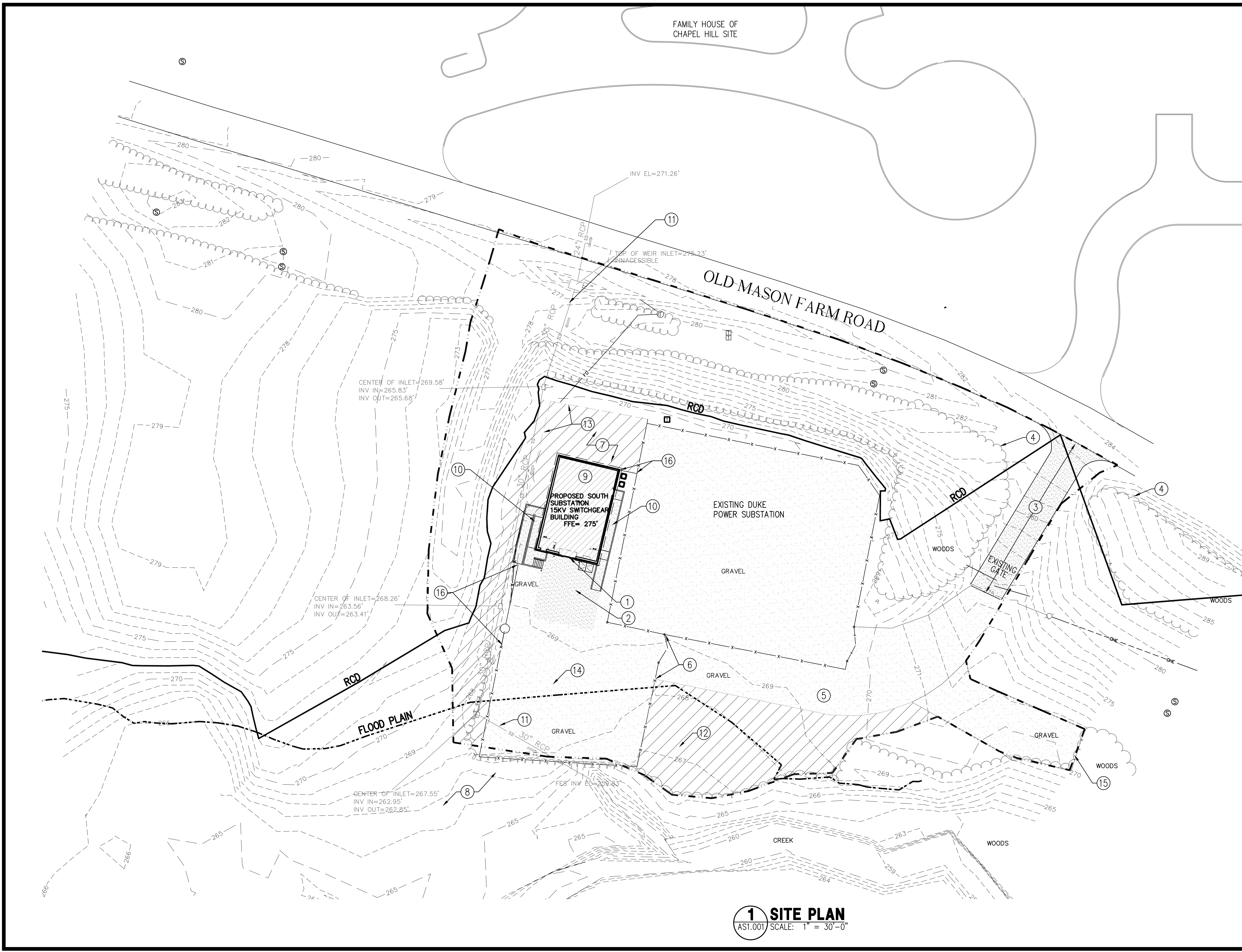
SUBSTATION ELECTRICAL SYSTEM IMPROVEMENTS  
SOUTH SUBSTATION  
LANDSCAPE PLAN  
S.U.P. PLAN SUBMITTAL

CODE: 40323  
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SHEET NUMBER:  
**L - 3**

SHEET 3 OF 4



**NOTES BY SYMBOL**

1. OVERHEAD DOOR LOCATION.
2. CONCRETE PARKING AREA.
3. CONCRETE DRIVE APPROACH AS PER NC-DOT REQUIREMENTS.
4. EXISTING TREE LINE TO REMAIN.
5. GRAVEL DRIVE.
6. NEW 20' WIDE GATE AND END SECTION OF FENCE.
7. EXPOSED EQUIPMENT, OVERHEAD BUS AND STRUCTURES IN THIS AREA TO BE REMOVED.
8. BUILDING, DRIVE AND PARKING LOT CONSTRUCTION DO NOT ENCRoACH ON WETLANDS AS DELINEATED IN THE JOHN R. McADAMS COMPANY, INC. UNC MASON FARM TRACT WETLAND STUDY DATED 15 JANUARY 2004.
9. NEW SOUTH SUBSTATION BUILDING, 1980 SQUARE FEET. BUILDING HEIGHT = 26' ABOVE SURROUNDING GRADE.
10. CONCRETE RAMP AND LANDING.
11. EXISTING STORM DRAINAGE SYSTEM TO REMAIN.
12. AREA TO BE PREPARED AND SEEDED TO PROVIDE NATURAL STORMWATER FILTRATION.
13. REMOVE PERIMETER FENCING FROM AREA AROUND EQUIPMENT. REMOVE GRAVEL BASE AND RESEED WITH GRASS.
14. EXISTING FENCED STORAGE AREA TO REMAIN.
15. EXISTING GRAVEL TRUCK TURNAROUND TO REMAIN.
16. NEW SECTION OF CHAIN LINK FENCE TO MATCH EXISTING.

**KEY**

- EXISTING GRAVEL
- CONCRETE PAVING
- GRASS SEEDED AREA
- PERVIOUS PAVER BLOCK
- PROJECT BOUNDARY (1.95 ACRES)
- EXISTING RCD (ELEV = 271.0')

**1 SITE PLAN**  
AS1.001 SCALE: 1" = 30'-0"

**TRUE PLAN**

0 30 60 90  
GRAPHIC SCALE: 1" = 30'-0"

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**SOUTH SUBSTATION UPGRADE**

SUBSTATION ELECTRICAL SYSTEM IMPROVEMENTS - SOUTH SUBSTATION  
**SITE PLAN**

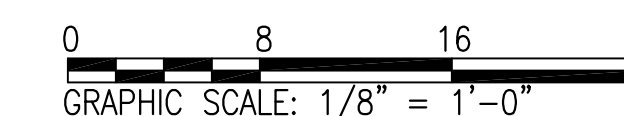
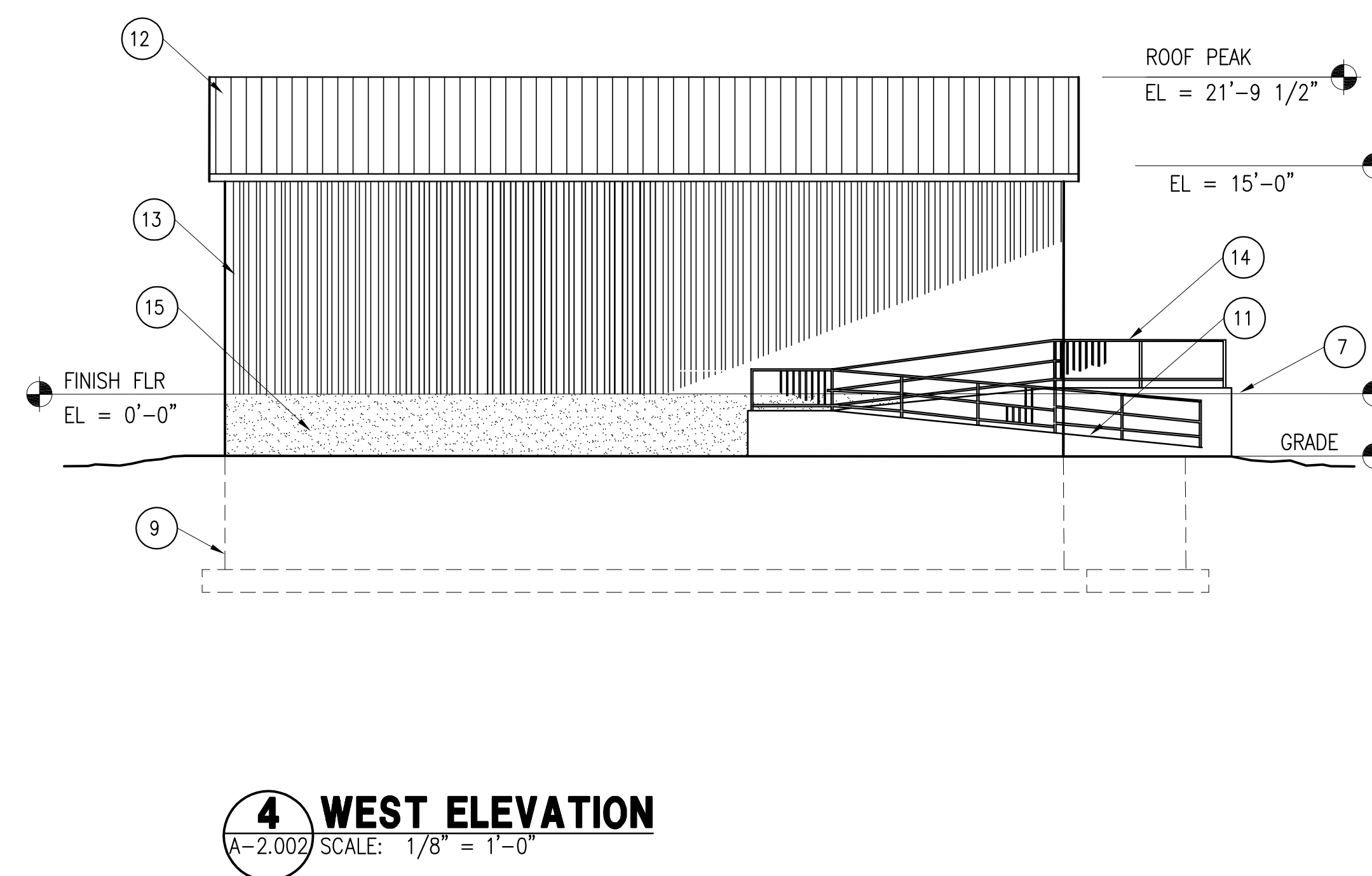
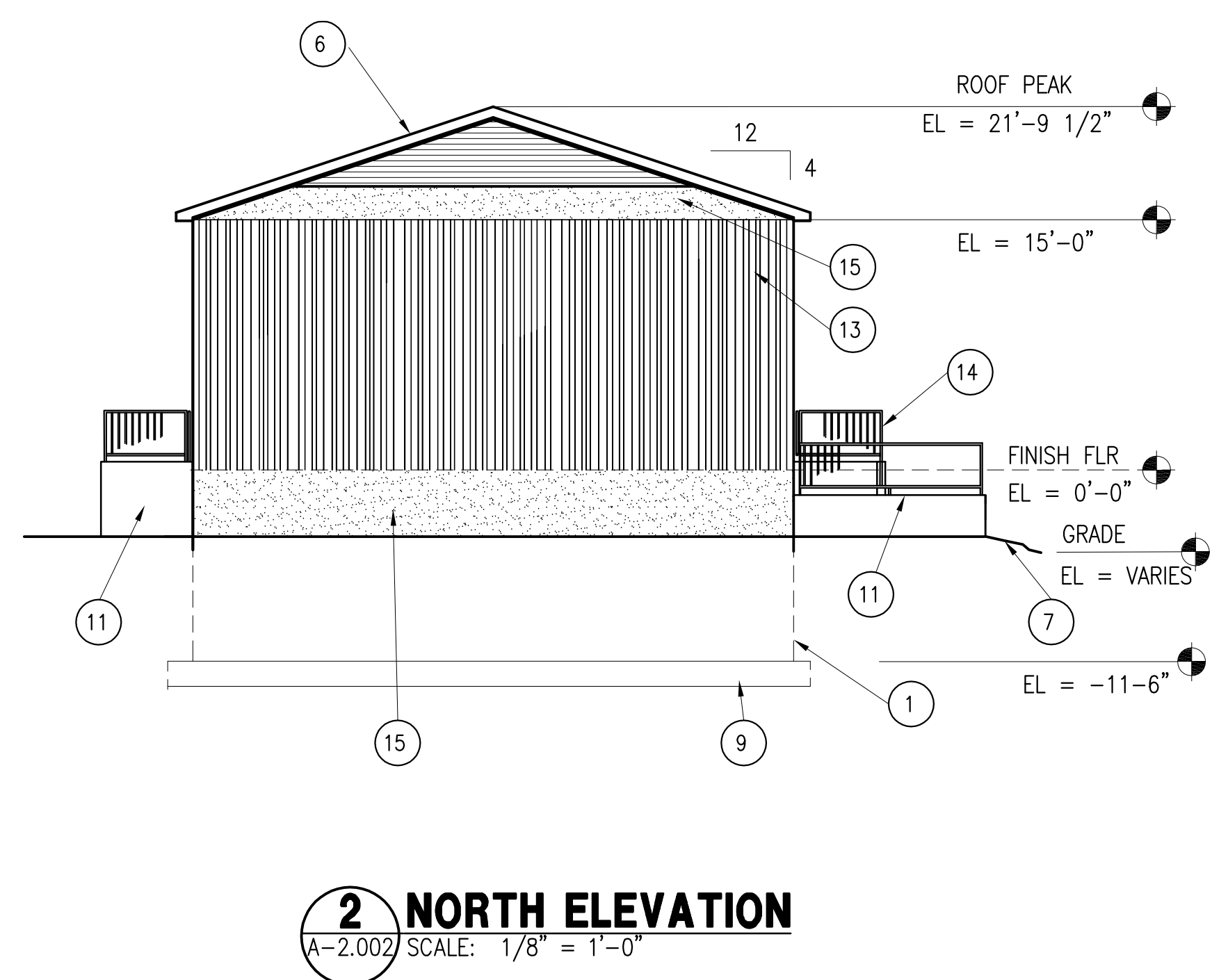
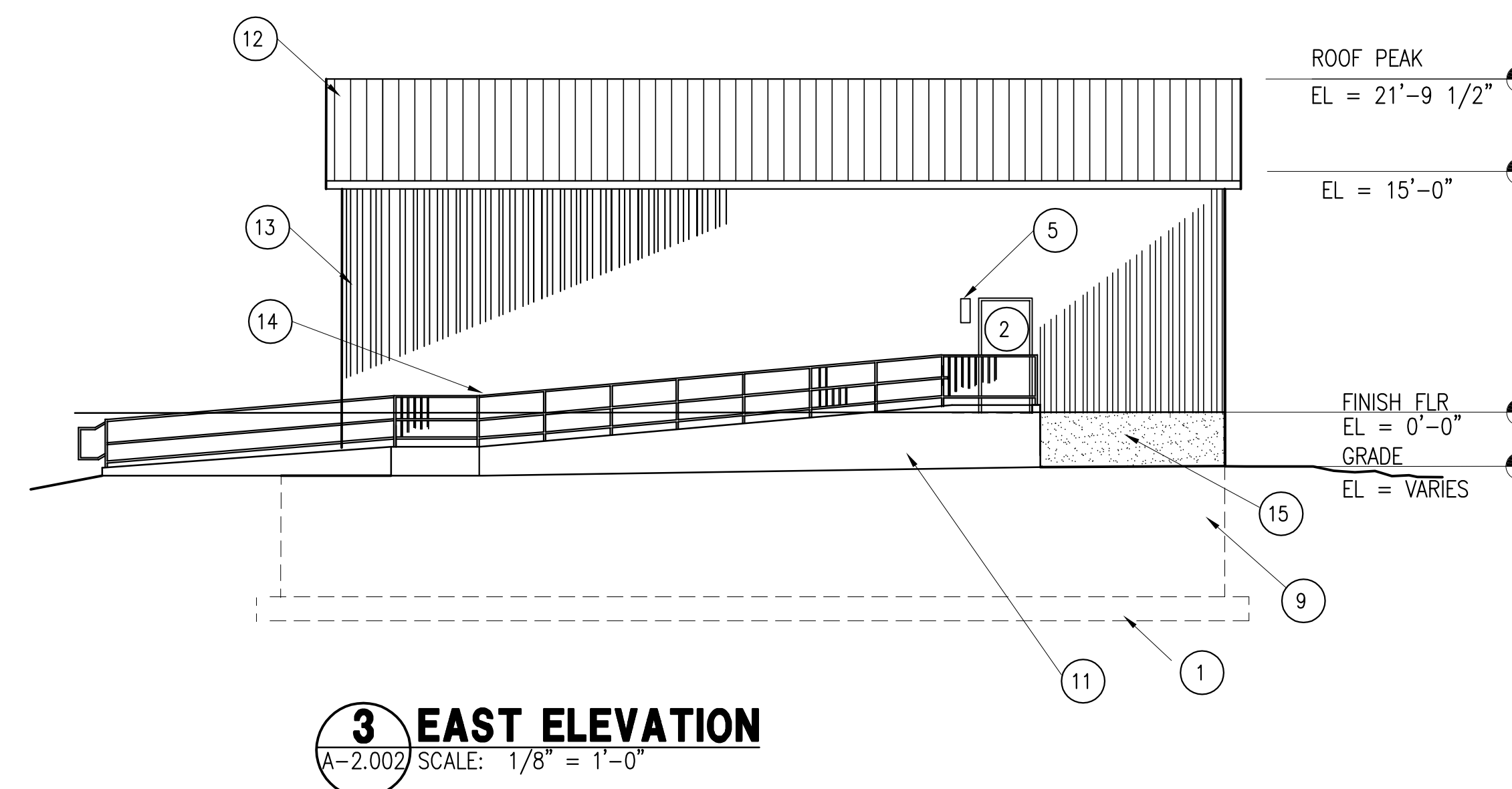
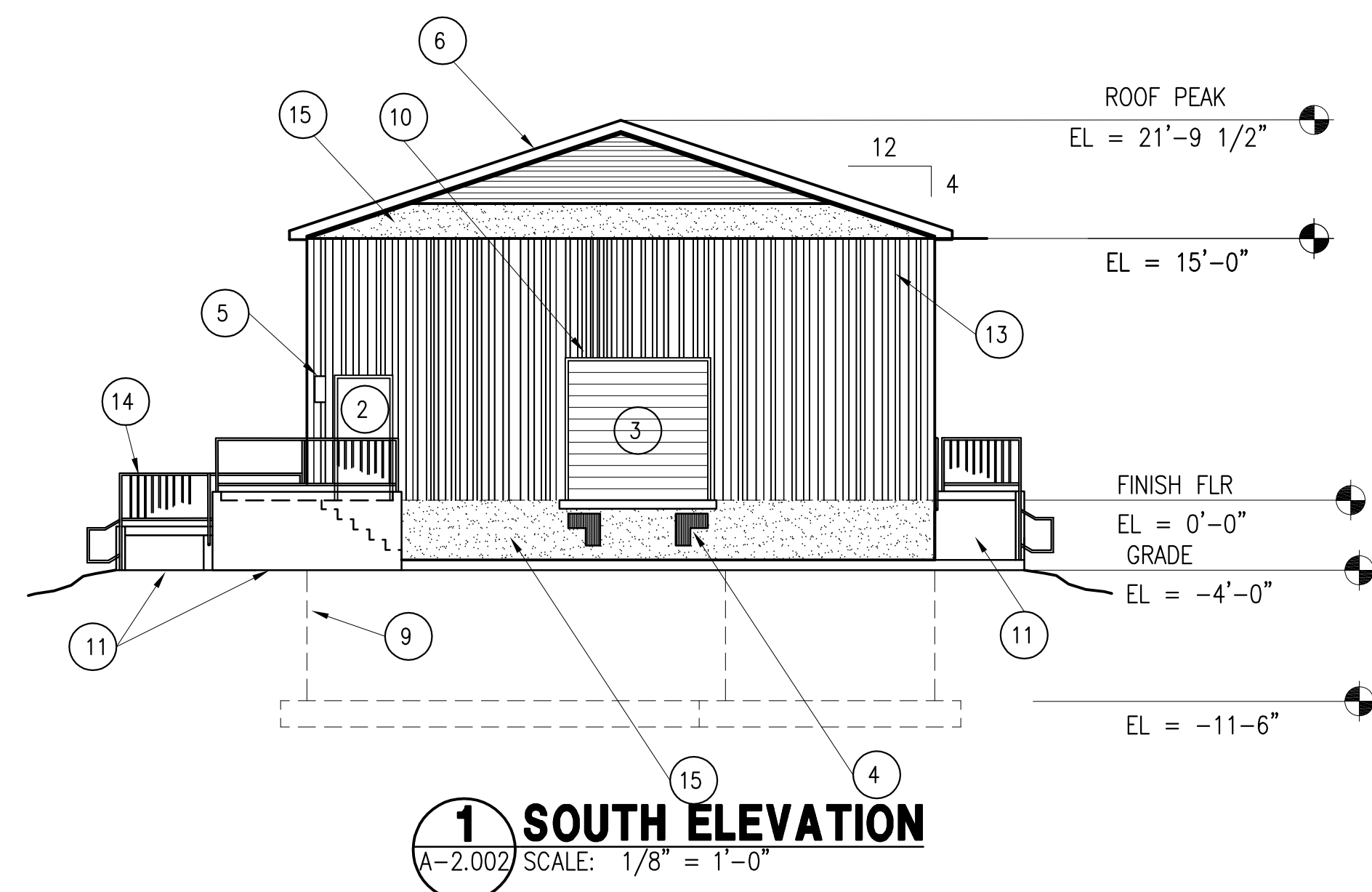
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ITEM: 311

FILE NUMBER: 030581001 DATE: 06/11/07

SHEET NUMBER:  
**AS1.001**  
SHEET 1 OF 1

**NOTES BY SYMBOL**

- 1. ELECTRICAL CABLE VAULT.
- 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. PREFABRICATED SLUMINUM GABLE LOUVER.
- 7. FINISH GRADE.
- 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.
- 11. CONCRETE LANDING AND RAMP 1:12 MAX SLOPE.
- 12. STANDARD SEAM PRE-FINISHED METAL ROOF.
- 13. RUSTICATED C.I.P. CONCRETE EXTERIOR.
- 14. ALUMINUM HANDRAIL.
- 15. ELASTOMETRIC SPECIAL COATING -- COORDINATE WITH SPECS.




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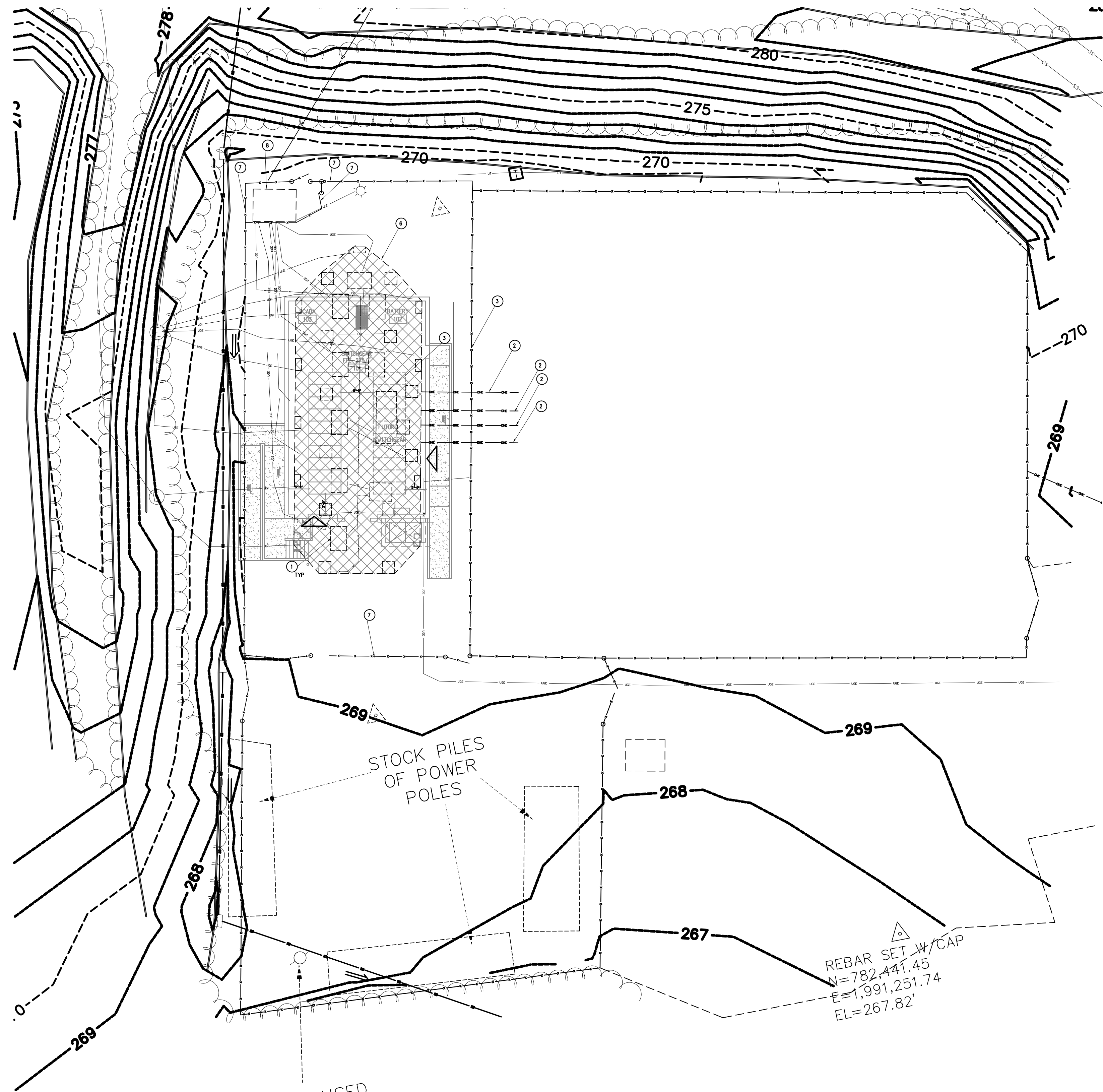
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The University of North Carolina  
at Chapel Hill  
SOUTH SUBSTATION UPGRADE



SUBSTATION ELECTRICAL SYSTEM IMPROVEMENTS - SOUTH SUBSTATION  
SUBSTATION EXTERIOR ELEVATIONS  
CODE: 40323  
ITEM: 311  
FILE NUMBER: 030581001  
DATE: 06/11/07

SHEET NUMBER:  
**A-2.001**  
SHEET 1 OF 1



**1 DEMOLITION PLAN**  
 AD1.001 SCALE: 1/16" = 1'-0"

**GENERAL NOTES**

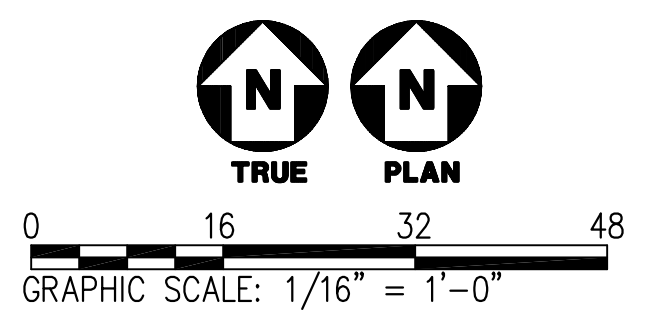
- A. BIDDERS TO VISIT SITE AND BE FAMILIAR WITH EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO EXISTING DIMENSIONS, EQUIPMENT, LOCATIONS, SIZES, QUANTITIES AND MATERIALS.
- B. EXISTING ELECTRICAL POWER SERVING THE EXISTING FACILITY WILL REMAIN ON LINE. COORDINATE DISRUPTIONS REQUIRED FOR CONSTRUCTION WITH THE UNIVERSITY PROJECT MANAGER ASSIGNED TO THIS SPECIFIC PROJECT.
- C. EXISTING DRAIN LINES SERVING THE EXISTING FACILITY WILL REMAIN FUNCTIONAL. ANY DISRUPTIONS REQUIRED FOR NEW TIE-INS DURING CONSTRUCTION MUST BE COORDINATED WITH THE UNIVERSITY PROJECT MANAGER ASSIGNED TO THIS SPECIFIC PROJECT.
- D. COORDINATE EXACT SIZES AND LOCATIONS FOR MECHANICAL, PLUMBING AND ELECTRICAL PENETRATIONS REQUIRED FOR NEW WORK WITH EACH RESPECTIVE TRADE.
- E. KEEP OPENINGS TO THE EXTERIOR TEMPORARILY COVERED FOR PROTECTION FROM WATER.
- F. KEEP OPENINGS TEMPORARILY COVERED FOR PEDESTRIAN SAFETY.
- G. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF TEMPORARY SHORING AND BRACING REQUIRED FOR DEMOLITION.
- H. RE: MEP SHEETS FOR ADDITIONAL PENETRATIONS AND MEP RELATED DEMOLITION OR EQUIPMENT REMOVAL.
- I. EXISTING CONSTRUCTION IS SHOWN BASED UPON OWNER FURNISHED PLANS, OWNER FURNISHED SURVEYS AND ONSITE OBSERVATIONS. REPORT DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE ARCHITECT/ENGINEER/PROJECT MANAGER PRIOR TO PROCEEDING WITH WORK.
- J. EXISTING CONSTRUCTION ADJACENT TO DEMOLITION WORK WILL BE PATCHED AND REPAIRED TO MATCH ORIGINAL CONDITION.
- K. COORDINATE DEMOLITION WORK TIMES WITH THE UNIVERSITY PROJECT MANAGER ASSIGNED TO THIS SPECIFIC PROJECT.
- L. MAINTAIN DUST BARRIERS, BARRICADES, PEDESTRIAN PROTECTION, WATER PROTECTION AND SAFETY DEVICES IN PLACE AT ALL TIMES DURING AND AFTER DEMOLITION UNTIL NEW WORK IS INSTALLED.
- M. MAINTAIN SITE DRAINAGE DEVICES AND COMPONENTS DURING THE COURSE OF DEMOLITION AND UP UNTIL NEW WORK IS IN PLACE. THIS INCLUDES EXISTING SUB-SOIL DRAINAGE. REFER TO CIVIL DRAWINGS FOR TEMPORARY SITE DRAINAGE REQUIREMENTS.

**NOTES BY SYMBOL**

- 1. EXISTING TRANSFORMERS AND CONCRETE PADS TO BE REMOVED.
- 2. EXISTING UNDERGROUND ELECTRICAL CONDUIT OR DUCT TO REMAIN.
- 3. EXISTING FENCE TO REMAIN.
- 4. EXISTING ELECTRICAL SWITCHGEAR TO BE REMOVED.
- 5. EXISTING LINE OF EXISTING ELECTRICAL OVERHEAD BUS-WAY TO REMAIN.
- 6. REMOVE EXISTING CONCRETE IN THIS AREA.
- 7. REMOVE EXISTING CHAIN-LINK FENCE.
- 8. REMOVE EXISTING BUILDING. REMOVE FOUNDATION TO LEVEL AS REQUIRED FOR NEW CONSTRUCTION.

**LEGEND**

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- AREA OF EXISTING CONCRETE SLAB TO BE DEMOLISHED PRIOR TO REMOVAL OF SWITCHGEAR ENCLOSURES



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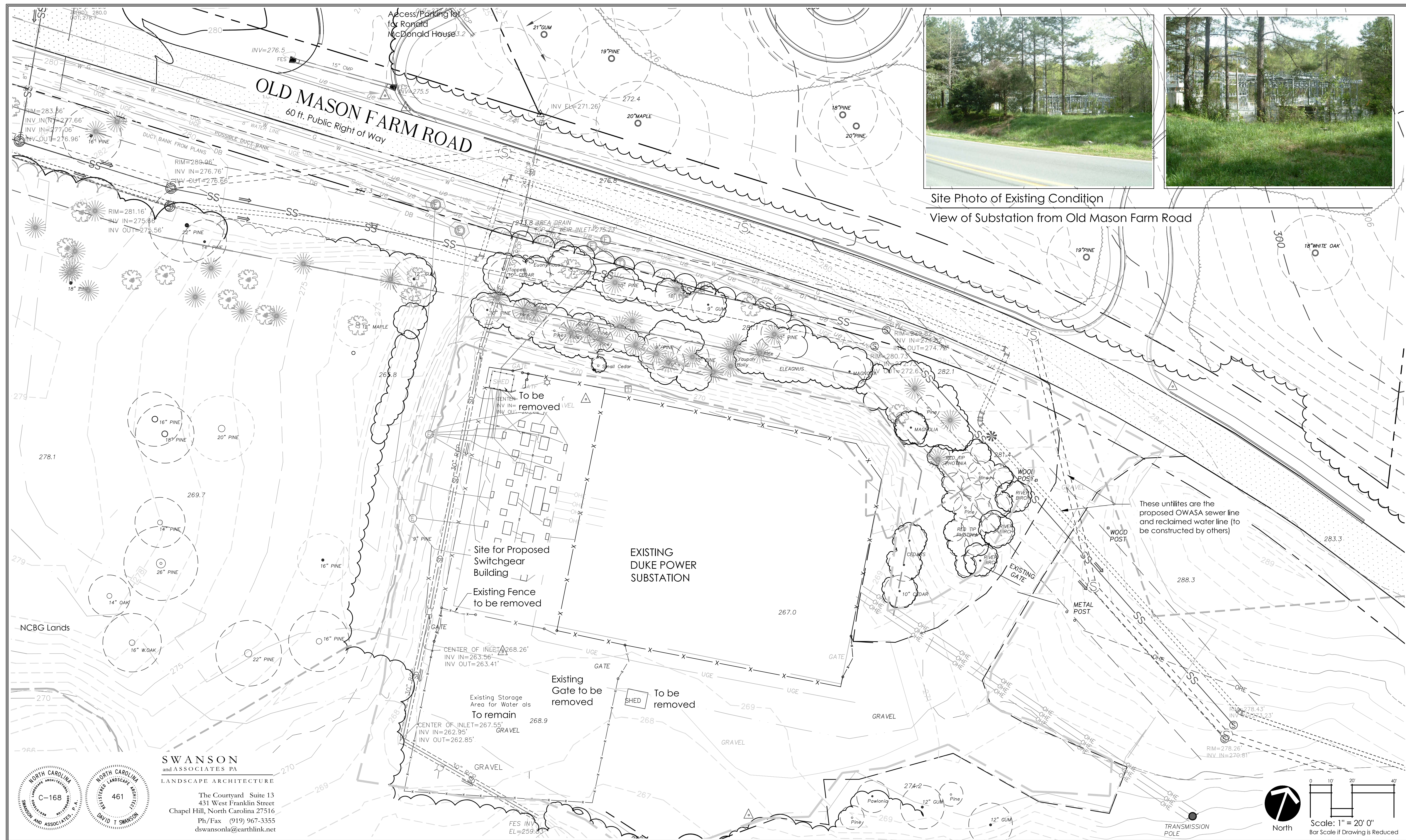
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**SOUTH SUBSTATION UPGRADE**

SUBSTATION ELECTRICAL SYSTEM IMPROVEMENTS - SOUTH SUBSTATION  
 SUBSTATION SWITCHGEAR BUILDING  
 DEMOLITION PLAN

CODE: 40323  
 ITEM: 311 FILE NUMBER: 030581001 DATE: 06/11/07

SHEET NUMBER:  
**AD1.001**  
 SHEET 1 OF 1

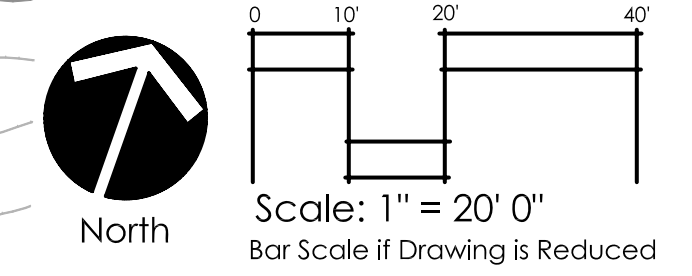


Site Photo of Existing Condition  
View of Substation from Old Mason Farm Road

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**SOUTH SUBSTATION UPGRADE**

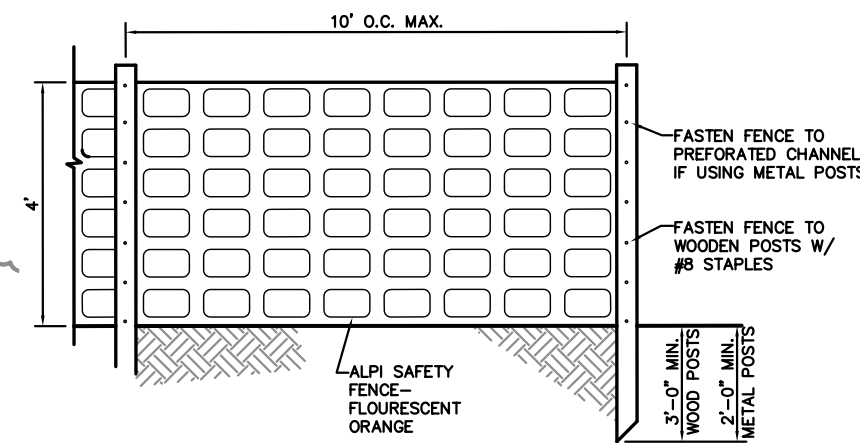
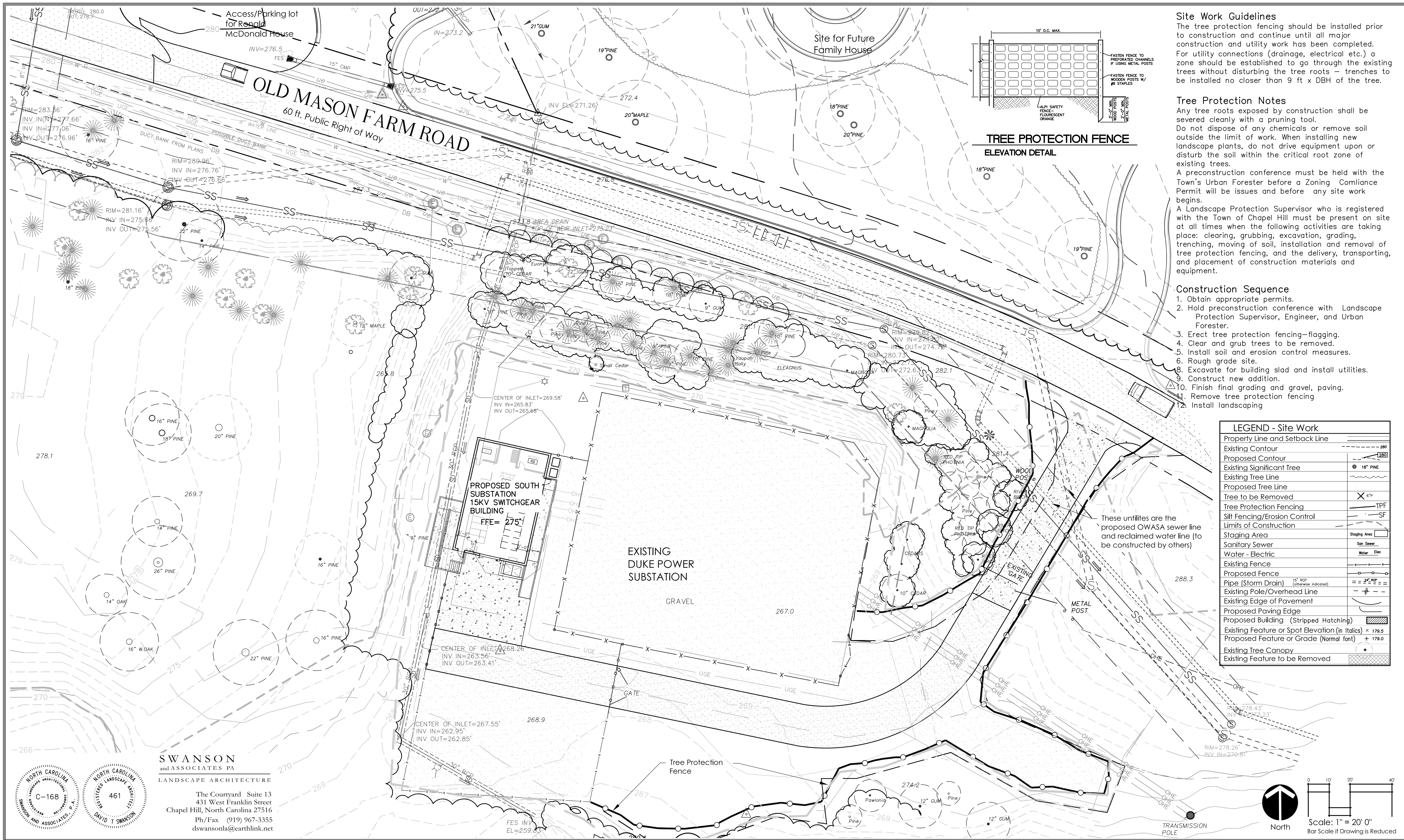
SUBSTATION ELECTRICAL SYSTEM IMPROVEMENTS  
SOUTH SUBSTATION  
**EXISTING CONDITIONS DEMOLITION PLAN for LANDSCAPE**  
S.U.P. PLAN SUBMITTAL

CODE: 40323  
ITEM: 311

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**L - 1**

SHEET 1 OF 4



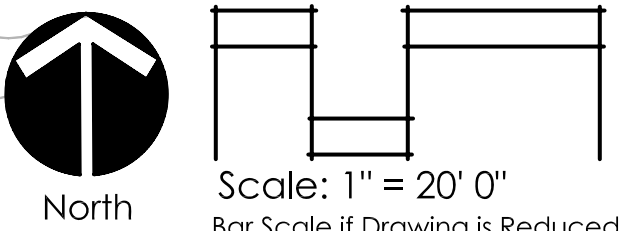
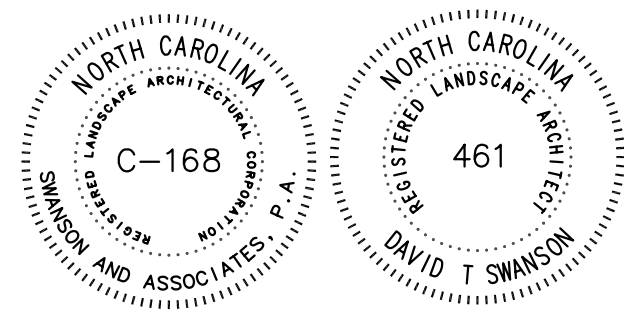
**Site Work Guidelines**  
 The tree protection fencing should be installed prior to construction and continue until all major construction and utility work has been completed. For utility connections (drainage, electrical etc.) a zone should be established to go through the existing trees without disturbing the tree roots – trenches to be installed no closer than 9 ft x DBH of the tree.

**Tree Protection Notes**  
 Any tree roots exposed by construction shall be severed cleanly with a pruning tool. Do not dispose of any chemicals or remove soil outside the limit of work. When installing new landscape plants, do not drive equipment upon or disturb the soil within the critical root zone of existing trees. A preconstruction conference must be held with the Town's Urban Forester before a Zoning Compliance Permit will be issued and before any site work begins. A Landscape Protection Supervisor who is registered with the Town of Chapel Hill must be present on site at all times when the following activities are taking place: clearing, grubbing, excavation, grading, trenching, moving of soil, installation and removal of tree protection fencing, and the delivery, transporting, and placement of construction materials and equipment.

- Construction Sequence**
1. Obtain appropriate permits.
  2. Hold preconstruction conference with Landscape Protection Supervisor, Engineer, and Urban Forester.
  3. Erect tree protection fencing-flagging.
  4. Clear and grub trees to be removed.
  5. Install soil and erosion control measures.
  6. Rough grade site.
  8. Excavate for building slab and install utilities.
  9. Construct new addition.
  10. Finish final grading and gravel, paving.
  11. Remove tree protection fencing
  12. Install landscaping

LEGEND - Site Work	
Property Line and Setback Line	---
Existing Contour	280
Proposed Contour	280
Existing Significant Tree	● 18" PINE
Existing Tree Line	~~~~~
Proposed Tree Line	~~~~~
Tree to be Removed	X 6"
Tree Protection Fencing	TPF
Silt Fencing/Erosion Control	SF
Limits of Construction	
Staging Area	Staging Area
Sanitary Sewer	San Sewer
Water - Electric	Water Elec
Existing Fence	---
Proposed Fence	---
Pipe (Storm Drain)	15" RCP (otherwise indicated)
Existing Pole/Overhead Line	---
Existing Edge of Pavement	---
Proposed Paving Edge	---
Proposed Building (Stripped Hatching)	▨
Existing Feature or Spot Elevation (in Italics) × 179.5	× 179.5
Proposed Feature or Grade (Normal font) + 179.0	+ 179.0
Existing Tree Canopy	●
Existing Feature to be Removed	▨

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**THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL** SOUTH SUBSTATION UPGRADE

SUBSTATION ELECTRICAL SYSTEM IMPROVEMENTS  
 SOUTH SUBSTATION  
 LANDSCAPE PROTECTION PLAN  
 S.U.P. PLAN SUBMITTAL  
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SHEET NUMBER:  
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 SHEET 2 OF 4