

WGLA ENGINEERING, PLLC
724 5th AVENUE WEST
HENDERSONVILLE, NC 28739
(828) 687-7177
WGLA.COM
NC LICENSE P-1342

Blue Ridge
Community
College
Paving

Henderson County
North Carolina

2022 PAVING
IMPROVEMENTS
for
BLUE RIDGE COMMUNITY COLLEGE

HENDERSON COUNTY
NORTH CAROLINA

Jared DeRidder
NORTH CAROLINA
PROFESSIONAL
SEAL
041349
ENGINEER
JARED L. DERIDDER
11/17/2022

REVISIONS	
DATE	DESCRIPTION



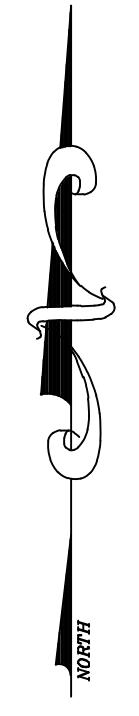
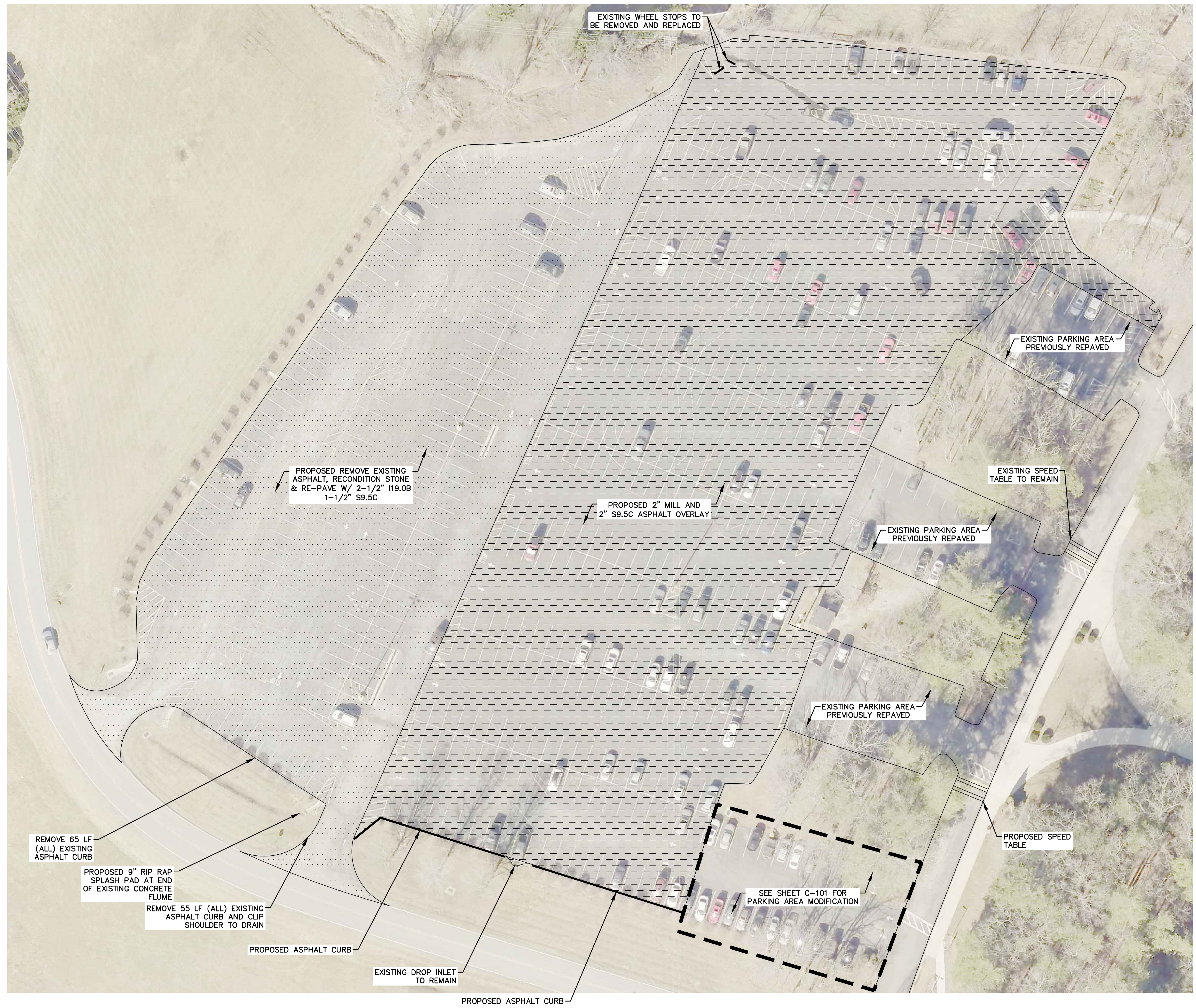
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PROJECT NUMBER: 22157
DATE: 11-17-22
DRAWN BY: JRC
CHECKED BY: JLD

INDEX OF SHEETS	
SHEET	DESCRIPTION
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C-101	PARKING MODIFICATIONS
C-102	SITE DETAILS
C-103	DRIVING COURSE STRIPING
C-104	PARKING LOT STRIPING

COVER

SCALE: AS NOTED

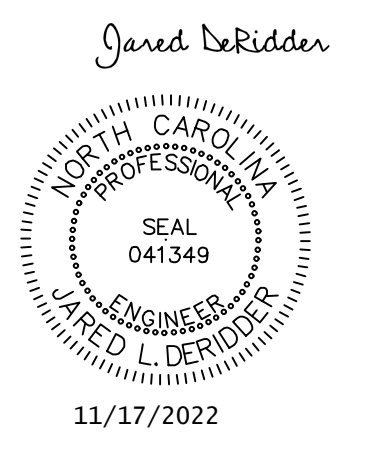


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APPROXIMATE ITEM QUANTITIES
 PROPOSED 2" MILL AND 2" S9.5C OVERLAY: 12,774 SY±
 PROPOSED REMOVE AND REPLACE ASPHALT: 7,495 SY ±
 PROPOSED ASPHALT CURB: 195 LF ±

- LEGEND**
- PROPOSED 2" MILL AND 2" S9.5C OVERLAY
 - PROPOSED REMOVE AND REPLACE ASPHALT
 - PROPOSED ASPHALT CURB

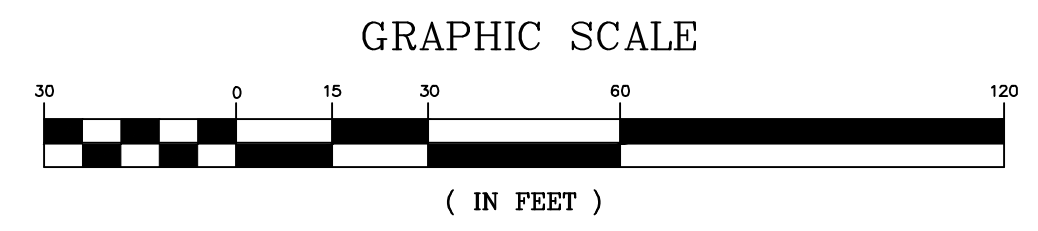


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Paving Plan

C-100

SCALE: 1"=30'



APPROXIMATE QUANTITIES

DEMOLISH EXISTING ASPHALT=	795 SY
IMPORT 8" CABC STONE=	365 TN
NEW ASPHALT PAVING (2" S9.5C)=	777 SY
PROPOSED ASPHALT CURB:	108 LF

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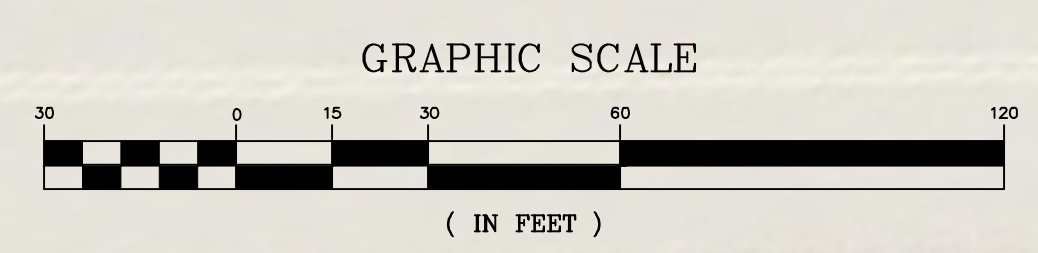


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**PARKING
MODIFICATIONS**

C-101

SCALE: 1"=30'



Practice Standards and Specifications

6

- 2. Ensure that posts for sediment fences are 1.33 lb/linear ft steel with a minimum length of 5 feet. Make sure that steel posts have projections to facilitate fastening the fabric.
3. For reinforcement of standard strength filter fabric, use wire fence with a minimum 14 gauge and a maximum mesh spacing of 6 inches.

Table 6.62b Specifications For Sediment Fence Fabric

Table with 4 columns: Test Method, Units, Supported/Un-Supported, Type of Value. Rows include Grab Strength, X-Machine Direction, Permittivity, Apparent Opening Size, and Ultraviolet Stability.

- CONSTRUCTION
1. Construct the sediment barrier of standard strength or extra strength synthetic filter fabrics.
2. Ensure that the height of the sediment fence does not exceed 24 inches above the ground surface.
3. Construct the filter fabric from a continuous roll cut to the length of the barrier to avoid joints.

- 7. Excavate a trench approximately 4 inches wide and 8 inches deep along the proposed line of posts and upslope from the barrier.
8. Place 12 inches of the fabric along the bottom and side of the trench.
9. Backfill the trench with soil placed over the filter fabric and compact. Thorough compaction of the backfill is critical to silt fence performance.

Installation Specifications

- 1. The base of both end posts should be at least one foot apart from the middle of the fence. Check with a level if necessary.
2. Install posts 4 feet apart in critical areas and 6 feet apart on standard applications.
3. Install posts 2 feet deep on the downstream side of the silt fence, and as close as possible to the fabric, enabling posts to support the fabric from upstream water pressure.

Practice Standards and Specifications

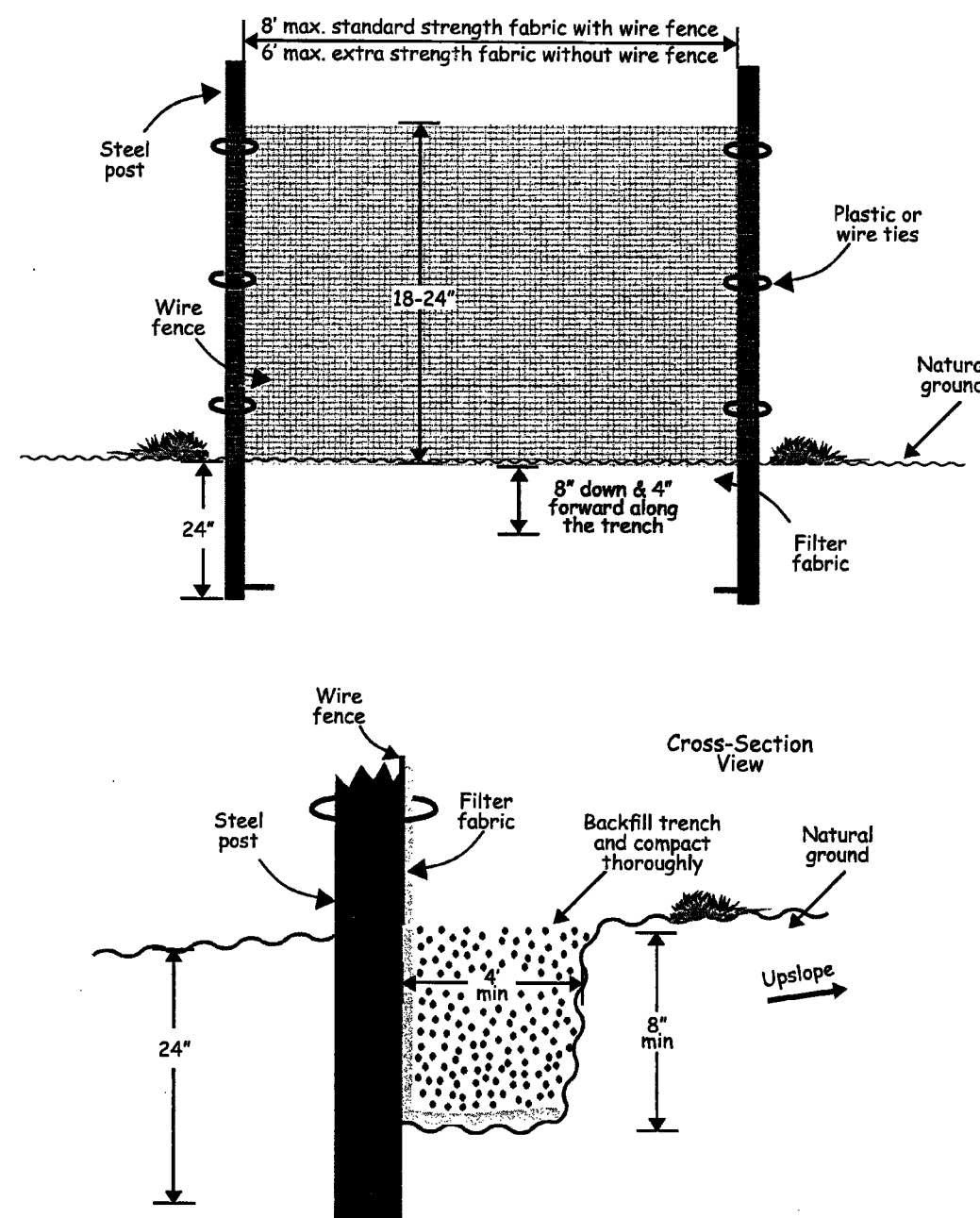
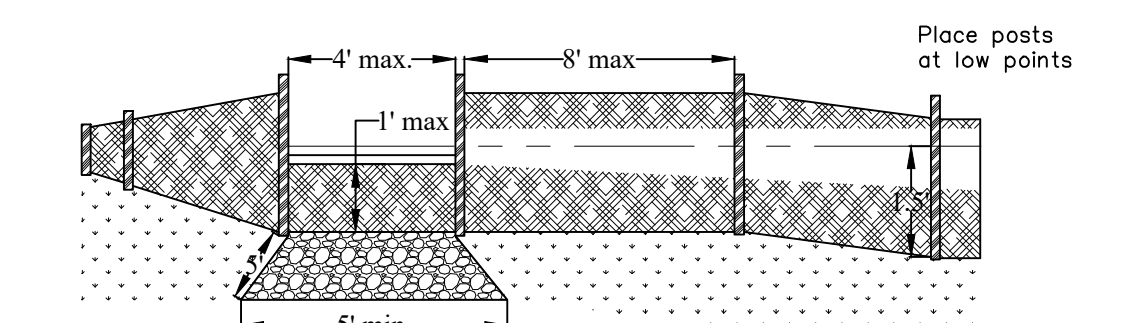


Figure 6.62a Installation detail of a sediment fence.

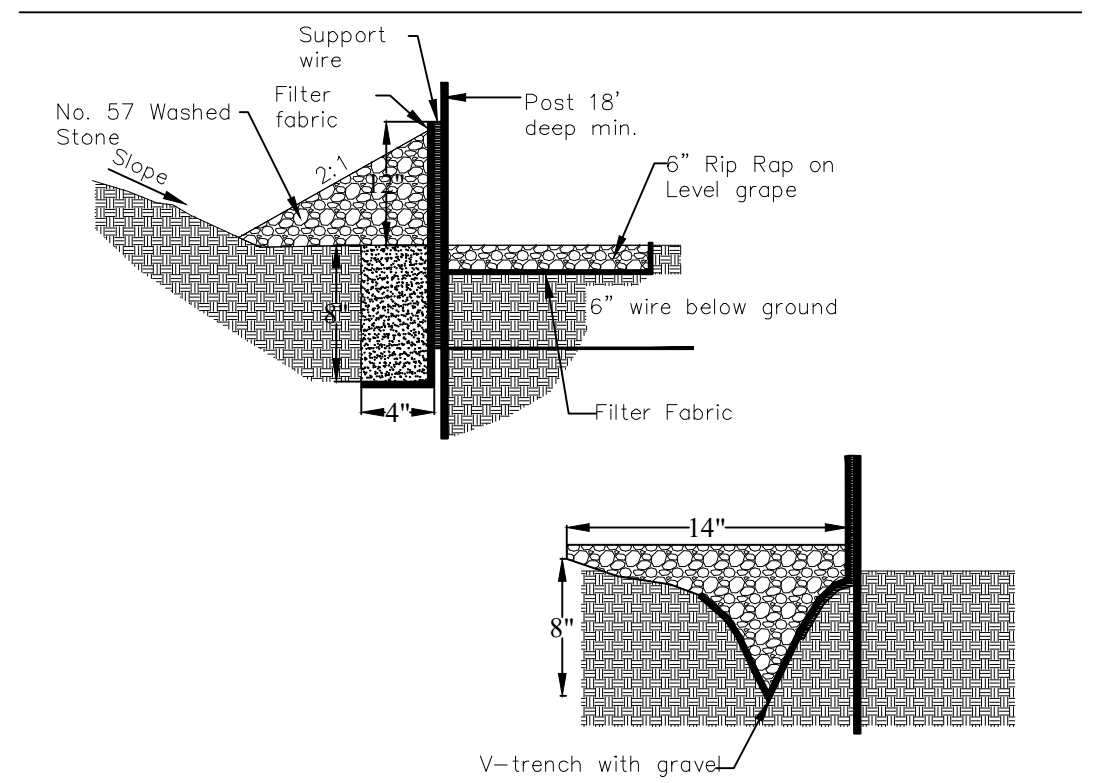
Sediment Fence (Silt Fence)

Reinforced, Stabilized Outlets
Any outlet where storm flow bypass occurs must be stabilized against erosion.
Set outlet elevation so that water depth cannot exceed 1.5 ft at the lowest point along the fence line.



Perspective of reinforced stabilized outlet for sediment fence.
Construction
Dig a trench approximate 8 inches deep and 4 inches wide, or a V-trench, in the line of the fence.
Drive posts securely, at least 18 inches into the ground, on the down slope side of the trench.

MAINTENANCE:
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.



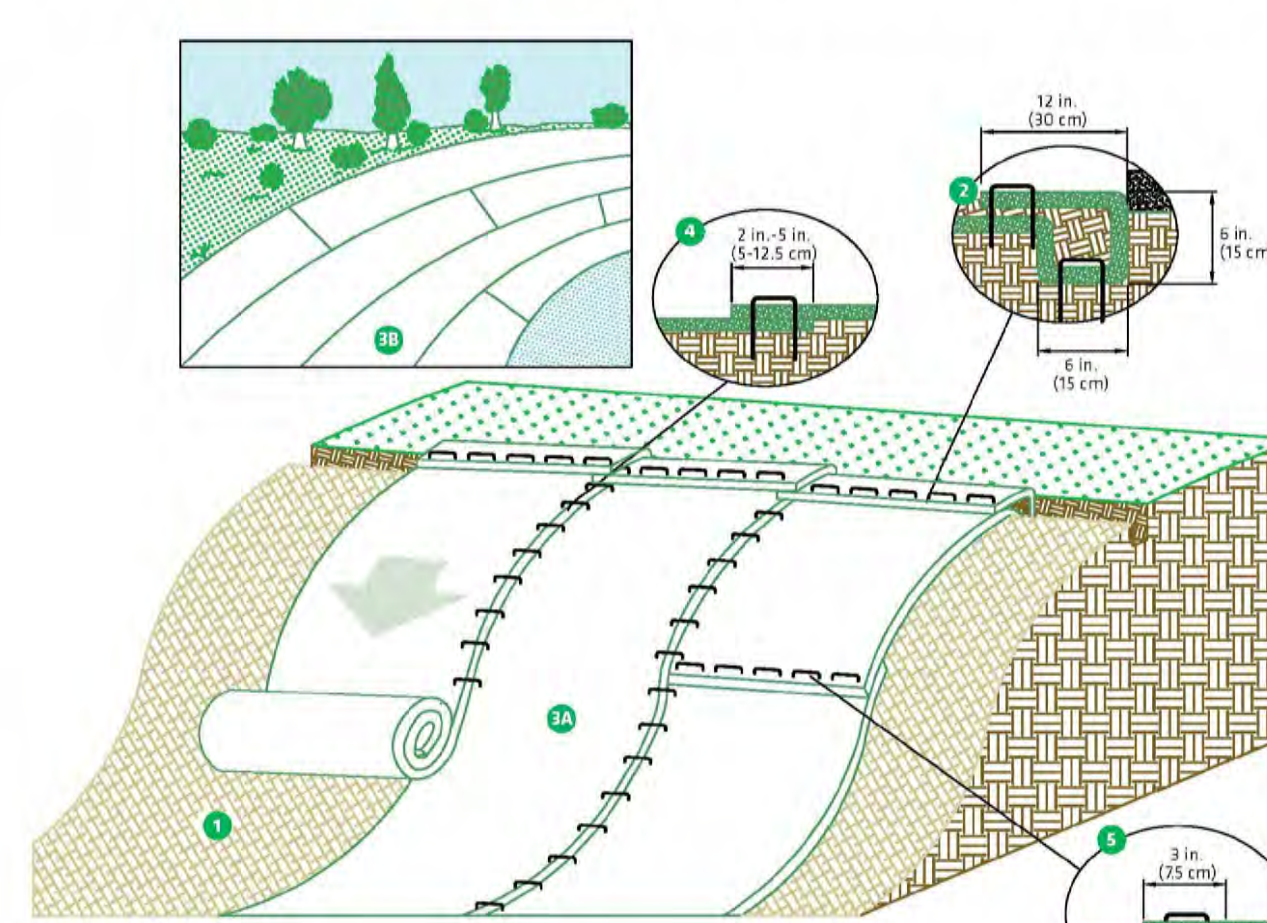
Place the bottom 1 ft of fabric in 8-inch deep trench lapping toward the upslope side. Backfill with compacted earth or gravel as shown in Figure 6.62d.
To reduce maintenance, excavate a shallow sediment storage area on upslope side of fence where sedimentation is expected.

Rev. 6/06 6.62.1

Rev. 6/06 6.62.5

Slope Installation

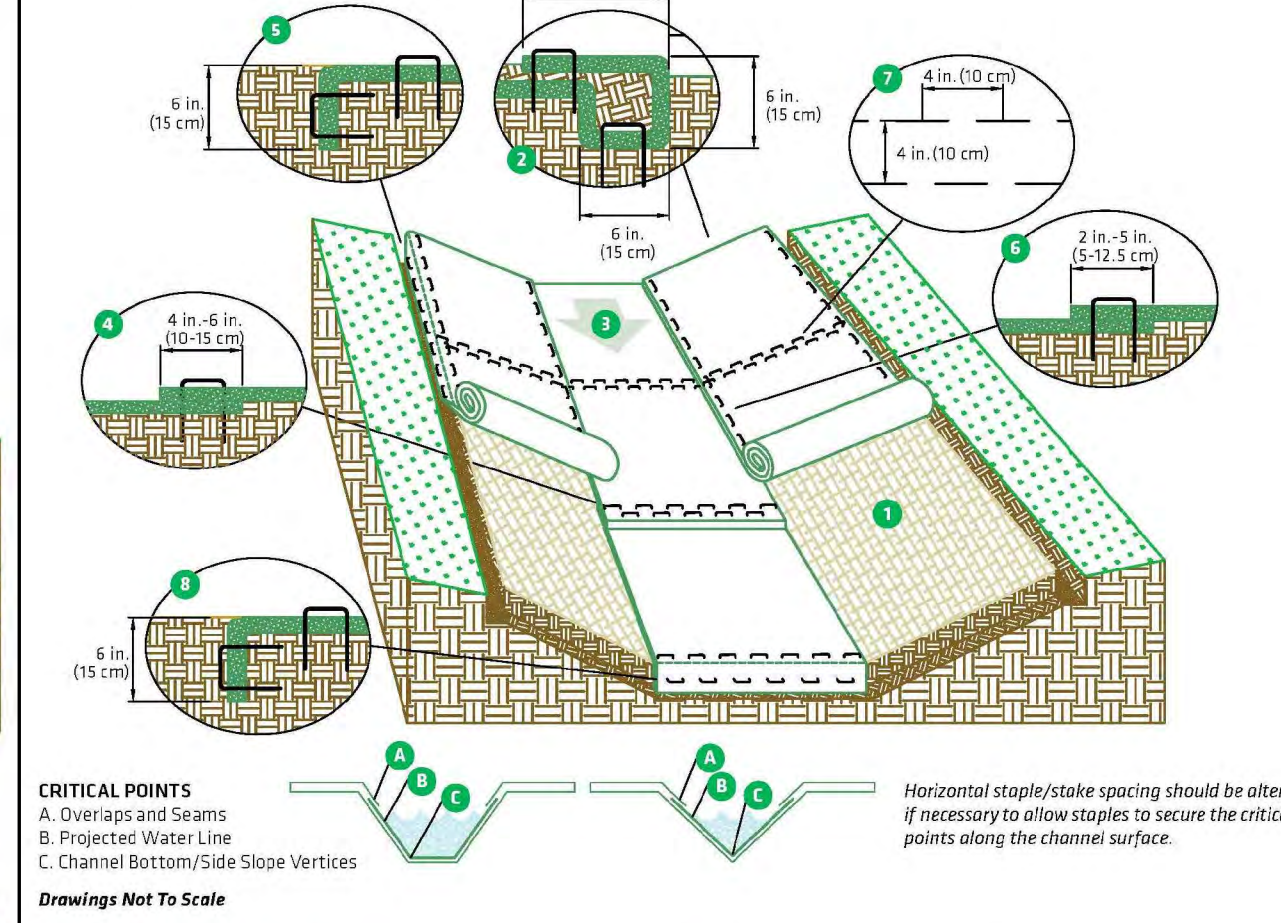
The following slope guide outlines general recommendations for installing RollMax System temporary and/or permanent RECPs on sloping applications. Consult the staple pattern guide (Figure 1) for fastener spacing recommendations based on the slope severity.



- 1. Prepare soil before installing RECPs, including any necessary application of lime, fertilizer and seed.
2. Begin at the top of the slope by anchoring the RECPs in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench with approximately 12 in. (30 cm) of RECPs extended beyond the upslope portion of the trench.

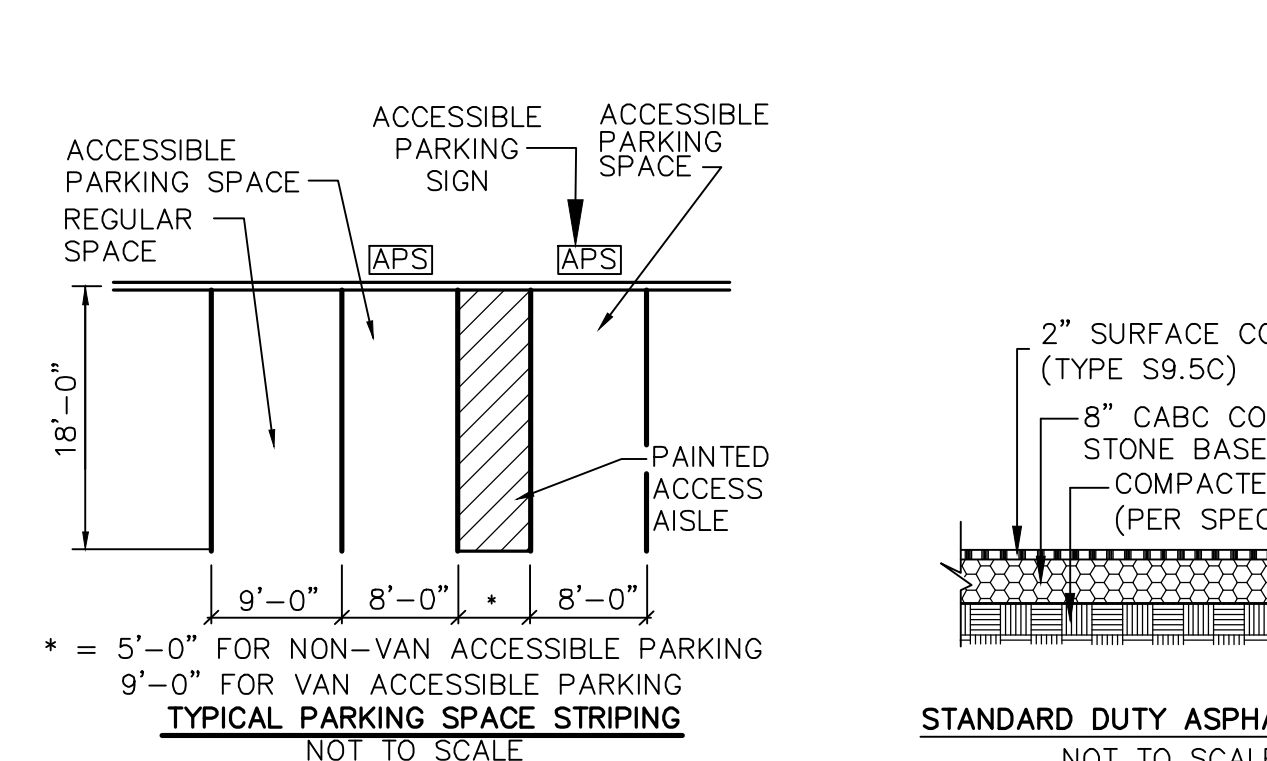
Channel Installation

The following channel guide outlines general recommendations for installing RollMax System temporary and/or permanent RECPs in concentrated flow applications. Consult the staple pattern guide (Figure 1) for fastener spacing recommendations based on the channel severity.



- 1. Prepare soil before installing RECPs, including any necessary application of lime, fertilizer and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench with approximately 12 in. (30 cm) of RECPs extended beyond the upslope portion of the trench.

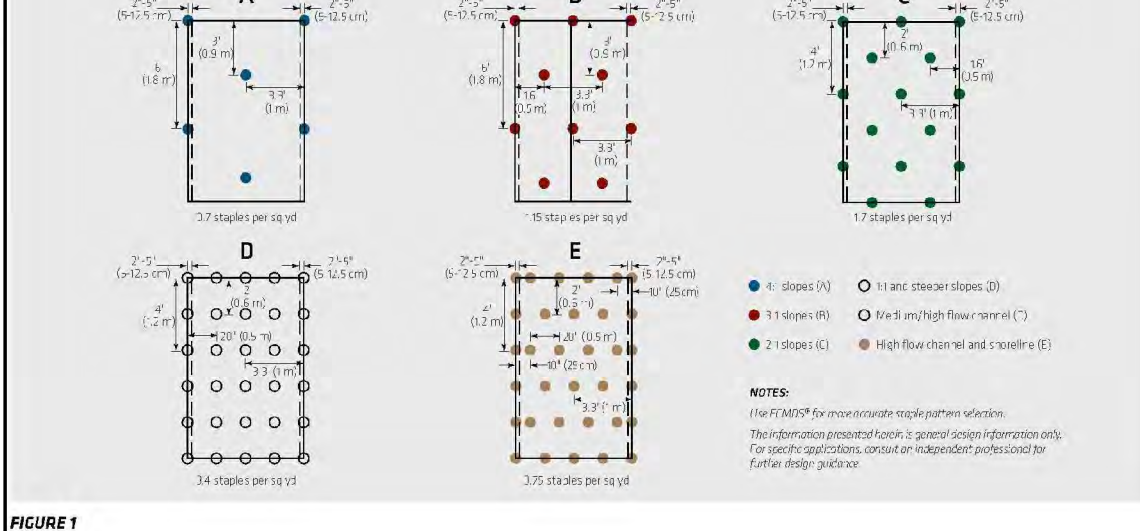
MATting DETAIL



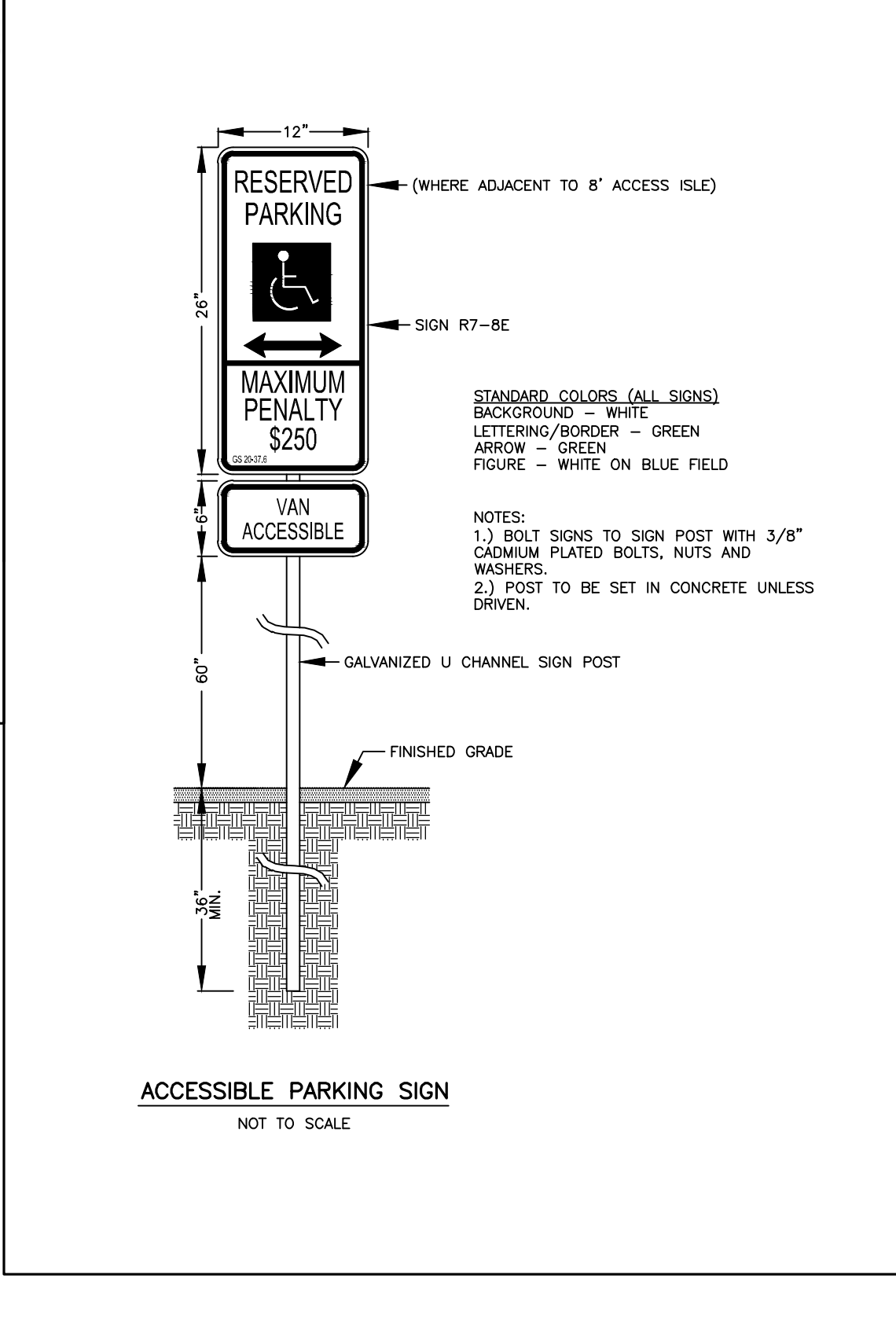
CHANNEL INSTALLATION STEPS

- 1. Prepare soil before installing RECPs, including any necessary application of lime, fertilizer and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench with approximately 12 in. (30 cm) of RECPs extended beyond the upslope portion of the trench.

STAPLE PATTERN GUIDE

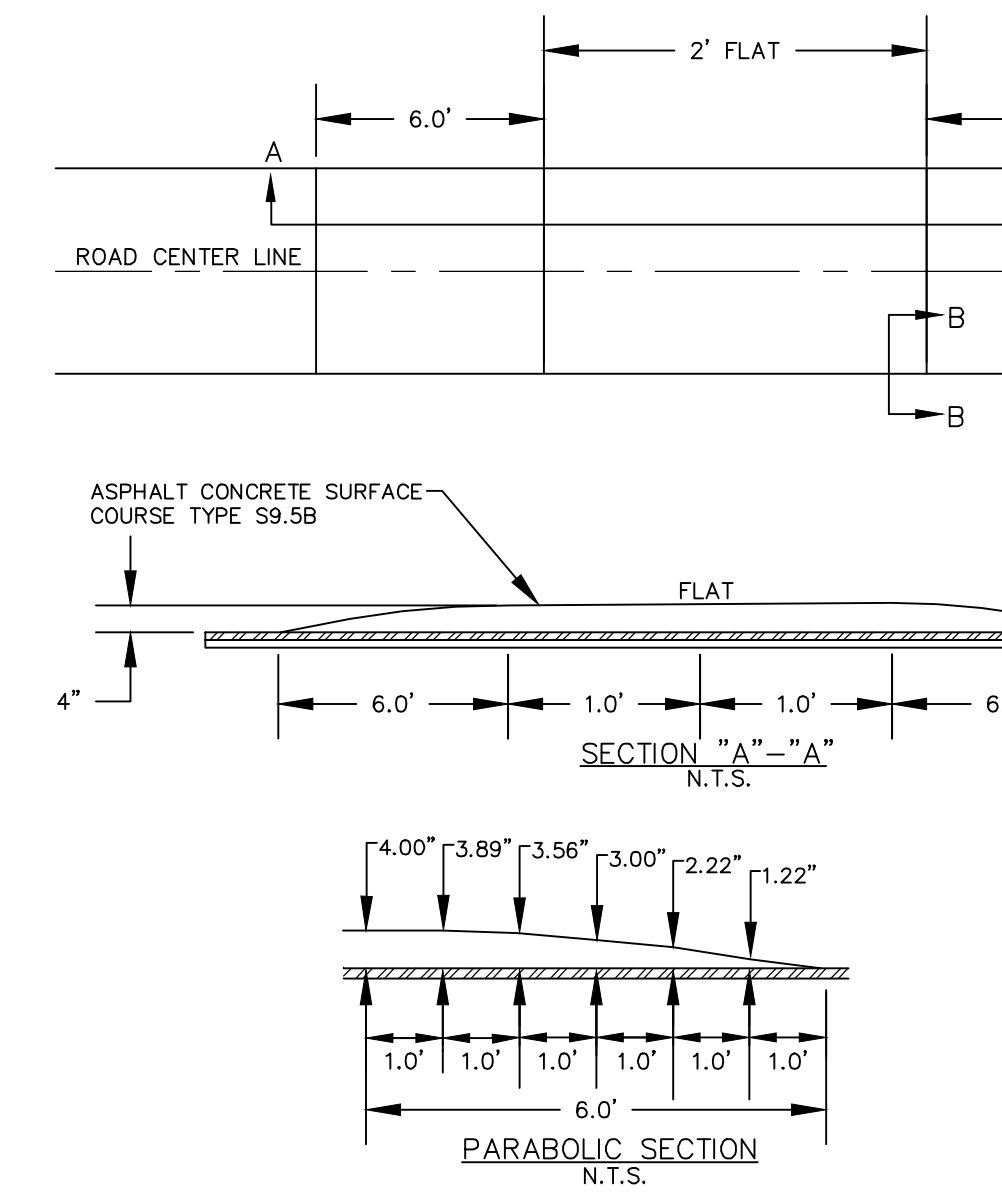


MAINTENANCE:
INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAIN FALL EVENT REPAIR IMMEDIATELY. GOOD CONTRACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.



GENERAL CONSTRUCTION NOTES

- 1. All work and construction activities on the project site shall comply with all applicable OSHA regulations and requirements. It is the Contractor's responsibility to maintain a safe work site.
2. The Engineer and Owner reserve the right to modify project work items (including grading) as deemed necessary for the successful completion of the project.



REVISIONS

- 5. Disposable Materials:
A. Clearing and grubbing wastes shall be removed from the site and properly disposed of by the contractor at their expense, unless otherwise specified.
B. Solid wastes to be removed such as sidewalks, curbs, pavement, etc. may be placed in specified disposal areas if permitted by the appropriate agencies and approved by the Owner.

REVISIONS

Table with columns DATE and DESCRIPTION for tracking revisions.

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Jared DeRidder
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 041349
L. DERIDDER
11/17/2022

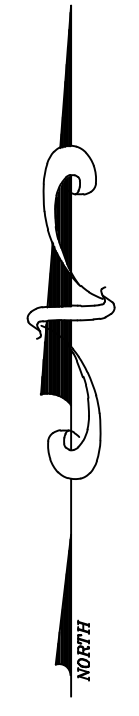
811 Know what's below. Call before you dig.

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SITE DETAILS

C-102

SCALE: AS NOTED

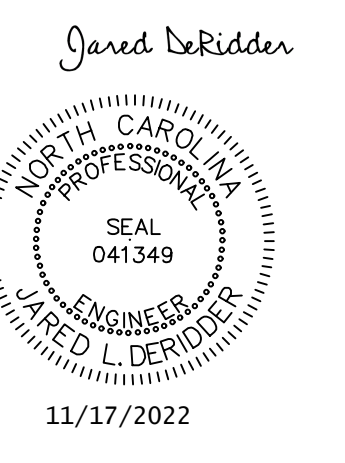


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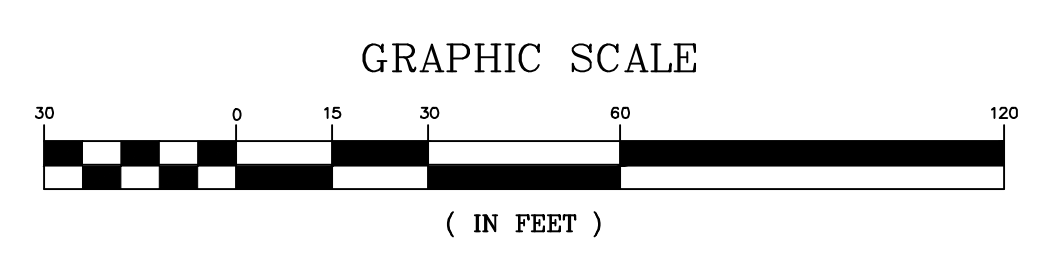


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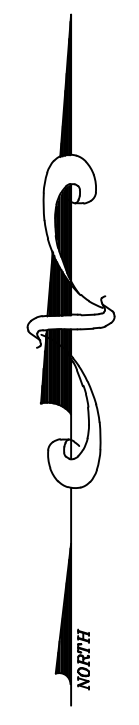
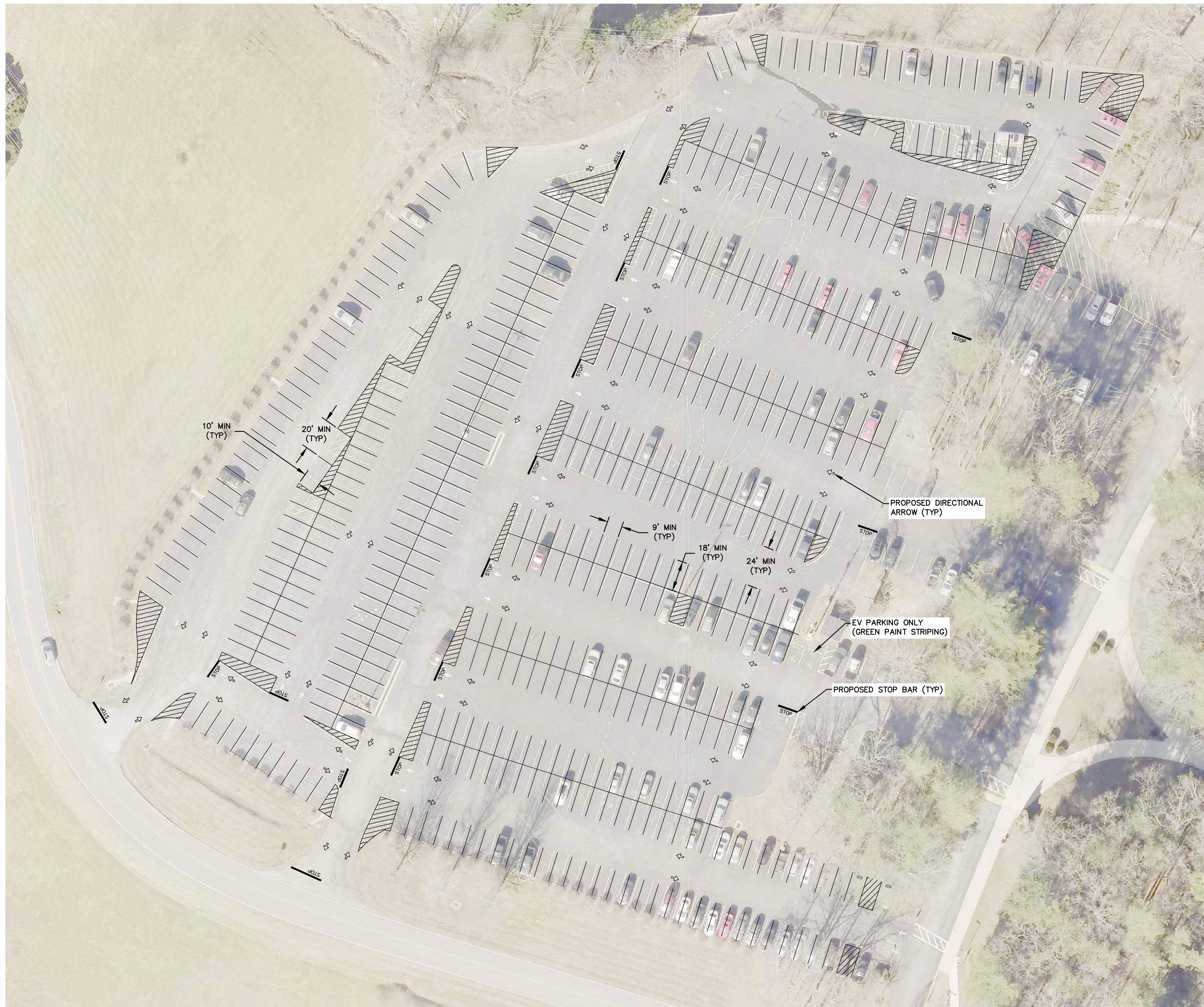
DRIVING COURSE STRIPING PLAN

C-103

SCALE: 1"=30'



- NOTE(S):
- 1) PAVEMENT STRIPING TO BE PERFORMED BY CONTRACTOR AND SHOULD CONSIST OF TWO
 - (2) COATS OF ASPHALT PAVEMENT PAINT.



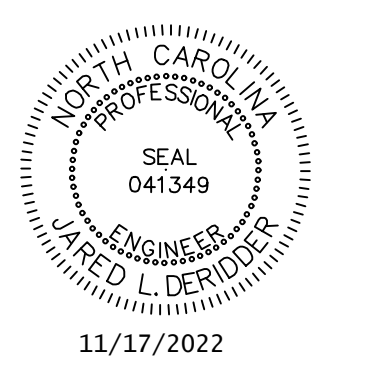
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Jared L. Ridder



REVISIONS

DATE	DESCRIPTION



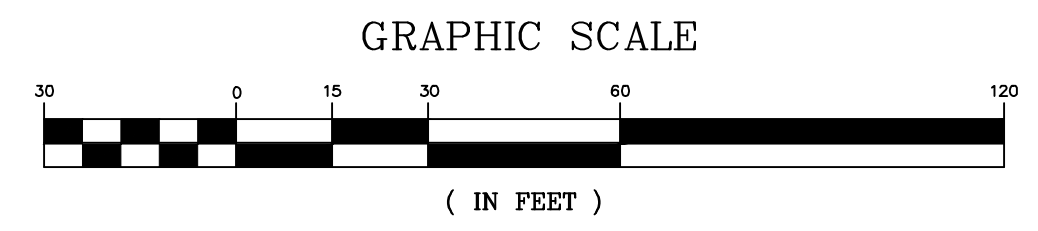
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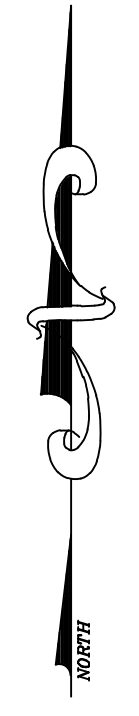
PARKING LOT STRIPING PLAN

C-104

SCALE: 1"=30'



- NOTE(S):
- 1) PAVEMENT STRIPING TO BE PERFORMED BY CONTRACTOR AND SHOULD CONSIST OF TWO
 - 2) COATS OF ASPHALT PAVEMENT PAINT.

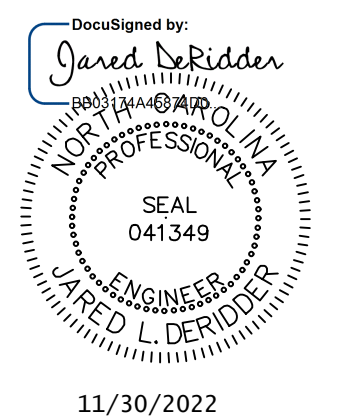


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11/30/2022

REVISIONS

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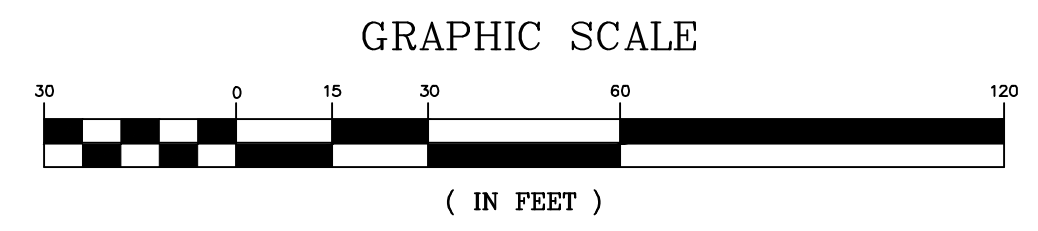
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DRIVING COURSE STRIPING PLAN

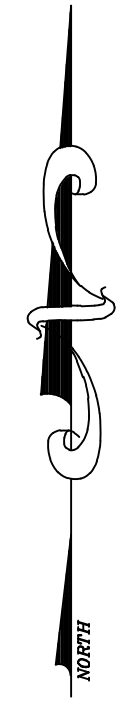
C-103

SCALE: 1"=30'



NOTE(S):

- 1) LINEAR COURSE STRIPING TO BE PERFORMED BY CONTRACTOR AND SHOULD CONSIST OF TWO (2) COATS OF WATERBORNE ASPHALT PAVEMENT PAINT.
- 2) TEMPLATE FOR ALL COURSE CONE PLACEMENTS (CIRCLES, TRIANGLES, X's, DIAMONDS AND SQUARES) TO BE PROVIDED BY BRCC. COURSE MARKINGS TO BE PAINTED RED, BLUE, GREEN, ORANGE, YELLOW AND WHITE UTILIZING FOX VALLEY SUPER SUPREME TRAFFIC PAINT AND IS TO MATCH NCMSEP COURSE STANDARDS AND LAID OUT BY QUALIFIED PERSONNEL.

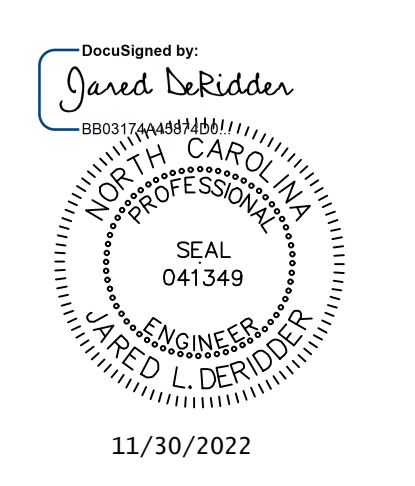


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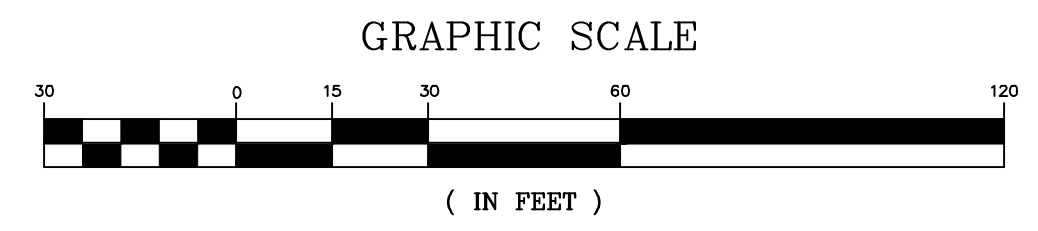
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PARKING LOT STRIPING PLAN

C-104

SCALE: 1"=30'



NOTE(S):
1) PARKING LOT PAVEMENT STRIPING TO BE PERFORMED BY CONTRACTOR AND SHOULD CONSIST OF TWO (2) COATS OF WATERBORNE ASPHALT PAVEMENT PAINT (WHITE IN COLOR).