FAIRFIELD I-77 DEVELOPMENT SITE, E&SC PLAN - INITIAL PHASE
LUCK STONE CORPORATION
FAIRFIELD COUNTY, SOUTH CAROLINA

MARCH 23, 2021

SITE DATA

PARCEL ID(S):
166-00-00-018-000,
166-00-00-028-000,
166-00-00-030-000

SITE ADDRESS:
SC HIGHWAY 34
RIDGEWAY, SOUTH CAROLINA

SITE ACREAGE:
416 AC.

EXISTING ZONING:
R2

PROPOSED USE:
AGGREGATE MINE OPERATIONS

LATITUDE:
34°18'52.92"N (34.3147°)

LONGITUDE:
-81°1'10.92"W (-81.0197°)

RIVER BASIN:
LAKE WATEREE-CATAWBA RIVER

RECEIVING WATERBODY:
DUTCHMANS CREEK

OWNER:
LUCK STONE CORPORATION

ADDRESS:
515 STONE MILL DRIVE (PO BOX 29682)
RICHMOND, VIRGINIA 23242

PHONE NO.:
(804) 784-6300

CONTACT NAME:
BRUCE SMITH

CONTACT E-MAIL ADDRESS:
brucsmith@luckcompanies.com

PROJECT REPRESENTATIVE:
S&ME INC.

ADDRESS:
2016 ARSLEY TOWN BLVD. SUITE 2-A
CHARLOTTE, NC 28273

PHONE NO.:
(704) 523-4726

CONTACT NAME:
CHRISTOPHER J.L. STAHL

CONTACT E-MAIL ADDRESS:
cstahl@smeinc.com

DRAWINGS

NUMBER
TITLE
1
EXISTING CONDITIONS PLAN
2
OVERALL SITE PLAN
3
DETAILS (SHEET 1 OF 4)
4
DETAILS (SHEET 2 OF 4)
5
DETAILS (SHEET 3 OF 4)
6
DETAILS (SHEET 4 OF 4)

REFERENCE:  BING MAPS
VICINITY MAP
SCALE 1" = 5,000'

SITE LOCATION
SCALE 1" = 2,000'

PREPARED FOR
CIVIL ENGINEER

LUCK STONE
515 STONE MILL DRIVE
RICHMOND, VIRGINIA 23242
(804) 784-6300

SOUTH CAROLINA 811

2016 ARSLEY TOWN BLVD.
SUITE 2-A
CHARLOTTE, NC 28273
(704) 523-4726
3. SEDIMENT CLEANOUT STAKE.

2. INLETS: INSTALL INLETS TO DISCHARGE WATER INTO THE FOREBAYS IN A MANNER TO PREVENT EROSION.


a. SCARIFY AREAS AND EACH COMPACTED LIFT ON WHICH FILL IS TO BE PLACED BEFORE PLACING THE FILL. THE FILL OPTIMUM MOISTURE CONTENT SHALL BE MAINTAINED BETWEEN OPTIMUM AND THREE PERCENT LOWER LIMIT.

b. COMPACTION IS TO BE PROOF ROLLED AT TWO LOCATIONS. PROOF-ROLL THE ENTIRE SEDIMENTATION BASIN FLOOR. THE PROOF ROLLING SHALL BE OBSERVED AND EVALUATED BY THE ENGINEER OR HIS REPRESENTATIVE.

• INSTALL FOREBAY RIPRAPS AND SAVE TO THE DESIGN.

b. INSTALL IN ACCORDANCE WITH CONTRACT DRAWINGS. OBTAIN A DNA LICENSE NUMBER FROM THE STATE OF SOUTH CAROLINA. LICENSED CONTRACTORS ONLY.
SLOPE MATTING NOTES

1. SUPPORT ROPE OR WIRE TRENCHED INTO BOTTOM AND SIDE SLOPES
2. COIR - BASED MATERIALS OR TRMs TO 0.5-INCH IN 24 HOURS. REMOVE SEDIMENT AND RESTORE TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO PT-SB-1
3. NON-CONCENTRATED OUTFLOW P-SB-2
4. ID 1.3 2.2 4-FT. MAX.
5. 10-FT 3.0 3.0 3.0 3.0
6. SECTION B-B PLAN
7. 1.7 1.8 1.9 1.9 1.5 2.7
8. PERSPECTIVE VIEW
9. CROSS-SECTION VIEW
10. PLAN
11. 9 11.8
12. BASIN OR TRAP SIDE SLOPES OF SEDIMENT
13. 2-FT. MIN.
14. SCALE: N.T.S.
15. 2 TO 5-IN.
16. 3-FT. MIN.
17. 3-FT. MIN.
18. 3-FT. MIN.
19. 3-FT. MIN.
20. ISOMETRIC VIEW
21. 3:1 SLOPES
22. 2:1 SLOPES
23. 2.0 2.0 2.0 2.0 2.0
24. REF:
25. 3.
26. 4.
27. 5.
28. 6.
29. 7.
30. 8.
31. 9.
32. SUPPORT WIRE
33. MATTING MATERIALS TO BE CONSISTENT OF 1-2 BEDS OF MATERIALS OR 2-3 LAYERS OF TWO DIFFERENT MATERIALS TO COMPLIMENT THE BASED MATERIALS OR TRMs MATERIAL TO HAVE A MINIMUM PROJECTION ON TOP OF THE SEGMENT BASED ON ENVIRONMENT INSPECTOR. RECPS WILL BE IN A 6-IN. DEEP X 6-IN. WIDE TRENCH WITH APPROXIMATELY 50 LBS. OF THE TRENCH. ANCHOR THE RECPS OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3-IN. OF THE RECPS.
34. OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES OVER 36-IN. OF THE FABRIC SHOULD BE PLACED WITHIN EACH BAFFLE THE PROPER DISTANCE FROM INLET AND DIRECTION OF THE STORMWATER FLOW AND PLACE INSTALL THE BAFFLE ROWS PERPENDICULAR TO THE GROUND BY USING 12-IN. STAPLES WITH A MAXIMUM CENTER. ATTACH BAFFLE TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED ALONG THE BAFFLES MATERIAL SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE WIDTH OF THE SEDIMENT BASIN FOR MAINTENANCE AND CLEAN-OUT.
35. END OVERLAP SEAM OF THE FABRIC SHOULD BE PLACED WITHIN EACH BAFFLE THE PROPER DISTANCE FROM INLET AND DIRECTION OF THE STORMWATER FLOW AND PLACE INSTALL THE BAFFLE ROWS PERPENDICULAR TO THE GROUND BY USING 12-IN. STAPLES WITH A MAXIMUM CENTER. ATTACH BAFFLE TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED ALONG THE BAFFLES MATERIAL SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE WIDTH OF THE SEDIMENT BASIN FOR MAINTENANCE AND CLEAN-OUT.
1. SILO FENCE POST REQUIREMENTS:
   1.1. SILO FENCE POST CONSTRUCTION CONSISTS OF LONGITUDINAL POLES AT A MAXIMUM SPACING OF 6 FEET FOR 2:1 SLOPE STEEPNESS (PERPENDICULAR TO THE FENCE LINE) SHALL BE 2:1.
   1.2. SILO FENCE POSTS MUST BE PLACED WITHIN 6 INCHES OF THE SILO FENCE LINE.
   1.3. ATTACH SILO FENCE POST TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   1.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

2. SILO FENCE NOTES:
   2.1. SILO FENCE POSTS MUST BE INSTALLED AT LEAST 12-INCHES FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES.
   2.2. SILO FENCE POSTS MUST BE INSTALLED AT A MINIMUM OF 36-INCHES.
   2.3. SILO FENCE POSTS MUST BE INSTALLED AT A MINIMUM OF 6-INCHES FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES.

3. SILO FENCE INSTALLATION:
   3.1. SILO FENCE POSTS MUST BE INSTALLED AT A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   3.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
   3.3. SILO FENCE POSTS MUST BE INSTALLED AT A MINIMUM OF 6-INCHES FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES.

4. SILO FENCE MAINTENANCE:
   4.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   4.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
   4.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   4.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

5. SILO FENCE REMOVAL:
   5.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   5.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
   5.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   5.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

6. SILO FENCE STABILIZATION:
   6.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   6.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
   6.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   6.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

7. SILO FENCE CLEANUP:
   7.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   7.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
   7.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   7.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

8. SILO FENCE REINSTALLATION:
   8.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   8.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
   8.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   8.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

9. SILO FENCE REPLACEMENT:
   9.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   9.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
   9.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
   9.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

10. SILO FENCE REMOVAL:
    10.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
    10.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
    10.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
    10.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

11. SILO FENCE STABILIZATION:
    11.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
    11.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
    11.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
    11.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

12. SILO FENCE CLEANUP:
    12.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
    12.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
    12.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
    12.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

13. SILO FENCE REINSTALLATION:
    13.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
    13.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
    13.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
    13.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.

14. SILO FENCE REPLACEMENT:
    14.1. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
    14.2. SILO FENCE POSTS MUST BE COMPLETELY BURIED.
    14.3. SILO FENCE POSTS MUST BE INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1 TO 2-INCHES ABOVE THE FABRIC.
    14.4. SILO FENCE POSTS MUST BE COMPLETELY BURIED.