

# PHILLIPPIE BORROW PIT & LCID LANDFILL Alamance County, North Carolina

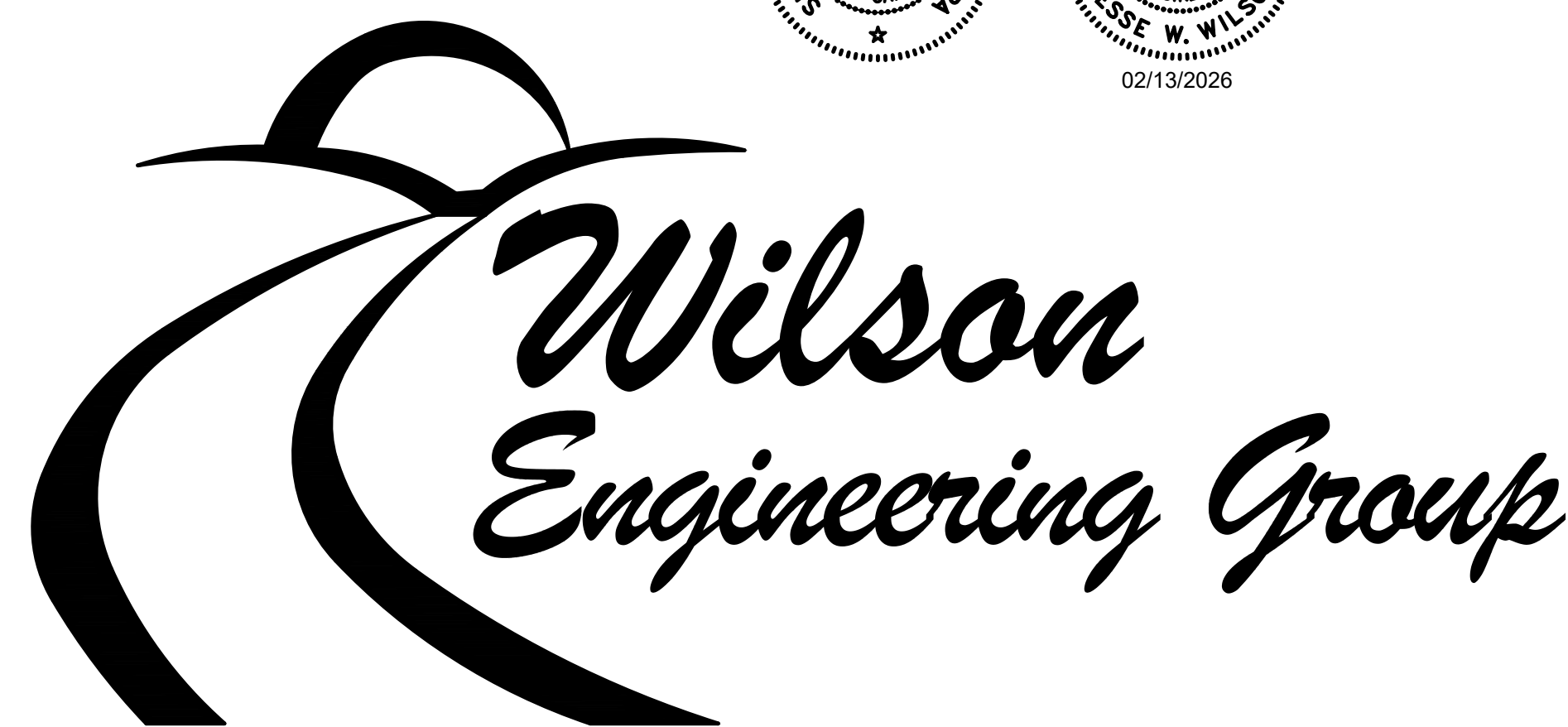
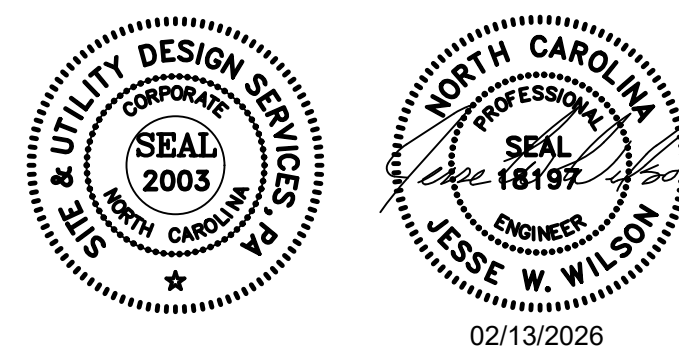
## Civil / Site Plan GRADING & EROSION CONTROL PLAN

Project No. 24-Phillippie-01  
December, 2024  
Revised FEBRUARY, 2026

### SHEET INDEX

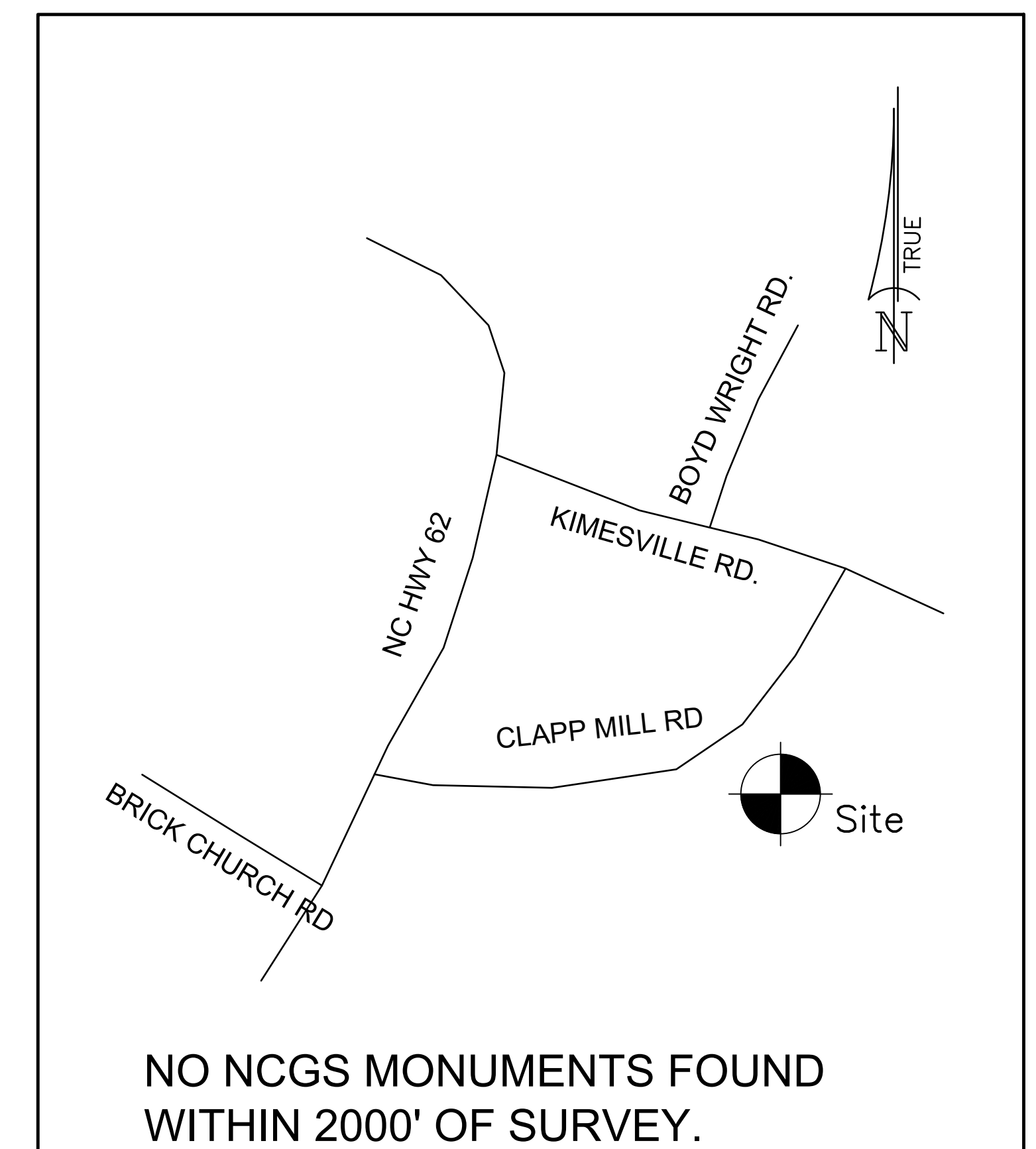
1. EXISTING CONDITIONS - FULL SITE
  - 1A. RECOMBINATION PLAT
2. EXISTING CONDITIONS - ENLARGED PROJECT SITE AREA
  - 2A. LIGHTING PLAN & GATING DETAILS
3. BORROW PIT CONSTRUCTION - GRADING & EROSION CONTROL PLAN
4. LCID LANDFILL CONSTRUCTION - GRADING & EROSION CONTROL PLAN
5. PIT & FILL SECTIONS SECTIONS
6. EROSION CONTROL DETAILS
7. DRAINAGE AREA DELINEATIONS

NCG01 SHEETS:  
NCG01 - GROUND STABILIZATION AND MATERIALS HANDLING  
NCG01 - SELF-INSPECTION, RECORD KEEPING AND REPORTING



*Civil / Environmental  
Design & Consulting*

1001 CHESTNUT DRIVE  
SMITHFIELD, NORTH CAROLINA 27577  
VOICE (336) 308-9613

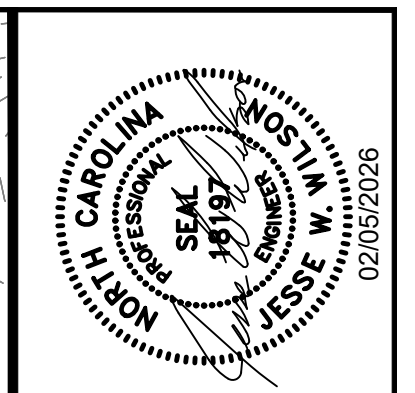


NO NCGS MONUMENTS FOUND  
WITHIN 2000' OF SURVEY.

VICINITY MAP  
NO SCALE







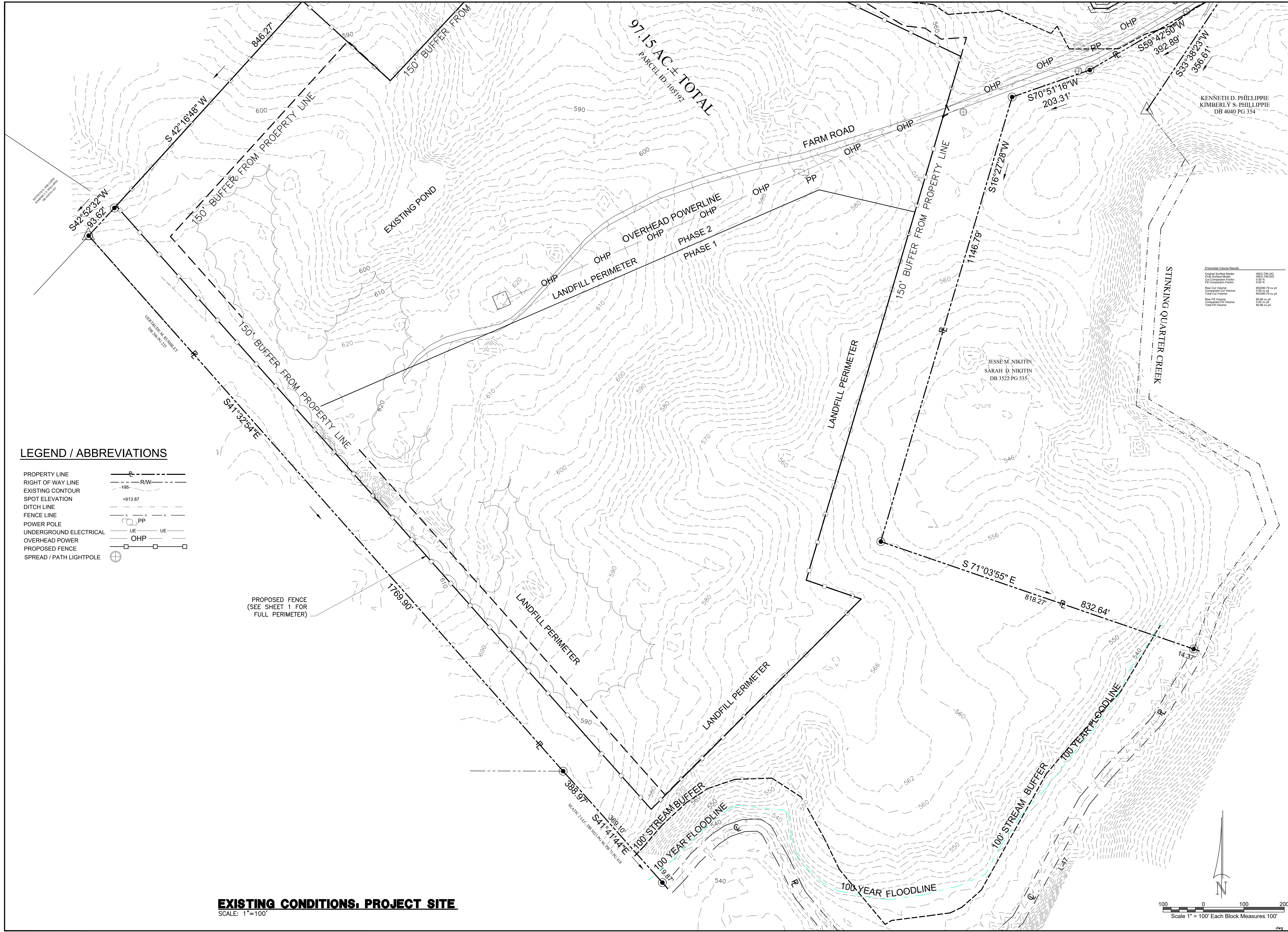
1001 CHESTNUT DRIVE  
SMITHFIELD, NC 27577  
(336) 736-9267



REV. NO.	DESCRIPTION	DATE	BY	APP'D

**PHILLIPPE BORROW PIT & LCID LANDFILL  
OVERALL PLAN  
PROJECT SITE AREA  
KENNETH PHILLIPPE  
4115 CLAPP MILL ROAD  
BURLINGTON, NC 27215**

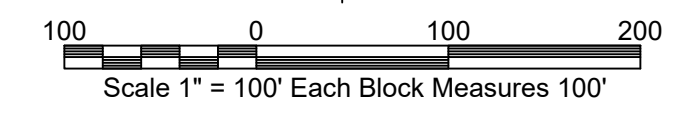
PROJECT NUMBER	24-PHILLIPPE-01
DESIGNED BY	JWW
DRAWN BY	JWW
CHECKED BY	JWW
SCALE	AS NOTED
DATE	02/05/2026
	2 of 7



**LEGEND / ABBREVIATIONS**

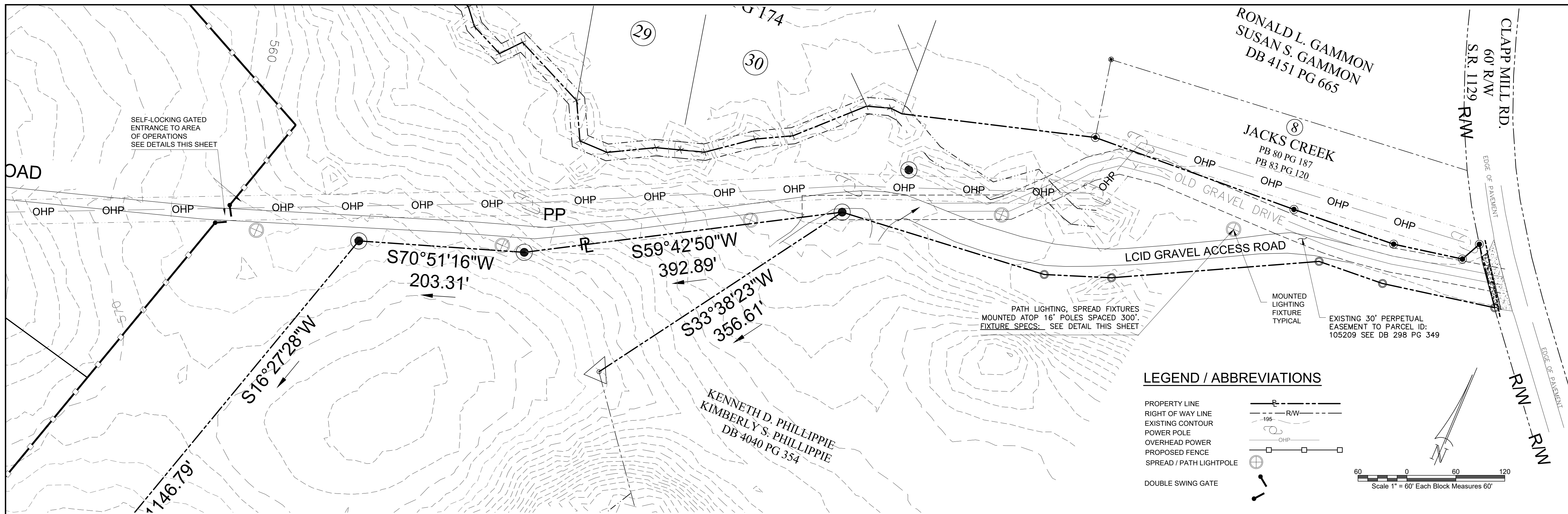
- PROPERTY LINE
- RIGHT OF WAY LINE
- EXISTING CONTOUR
- SPOT ELEVATION
- DITCH LINE
- FENCE LINE
- POWER POLE
- UNDERGROUND ELECTRICAL
- OVERHEAD POWER
- PROPOSED FENCE
- SPREAD / PATH LIGHTPOLE

**EXISTING CONDITIONS, PROJECT SITE**  
SCALE: 1"=100'



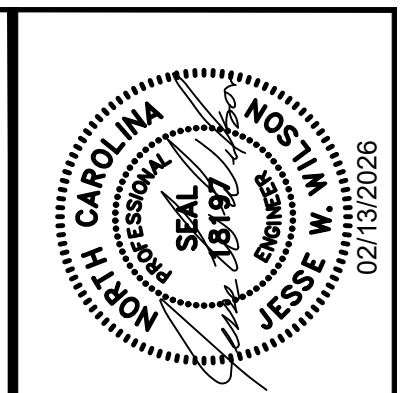
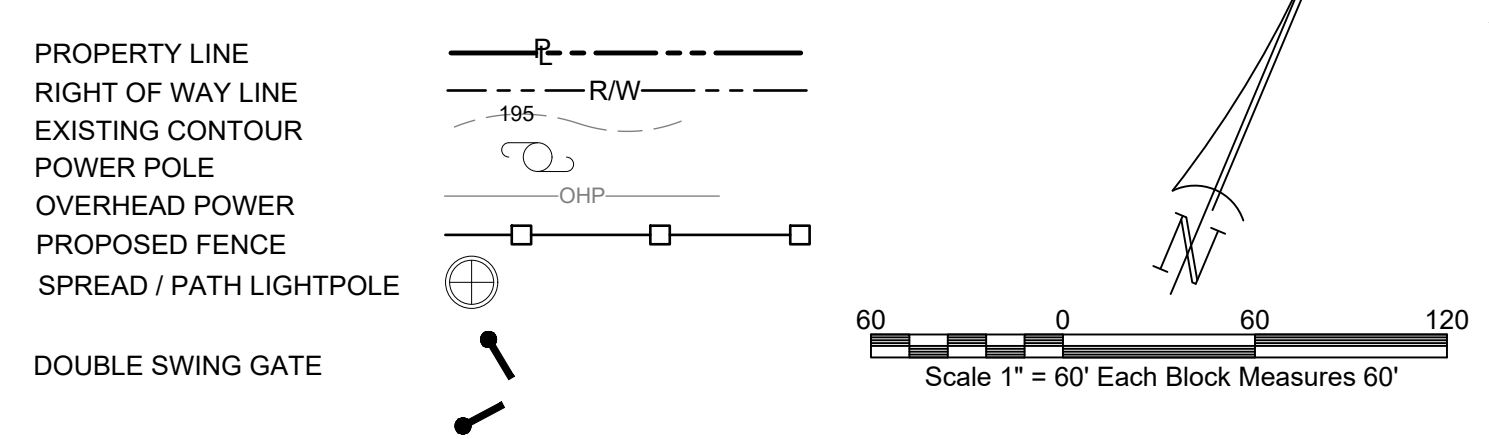
Proposed Volume Results

Original Surface Model	WEG-124-02
Final Surface Model	WEG-124-02
Cut Compaction Factor	0.95 %
Fill Compaction Factor	0.95 %
Raw Cut Volume	90390.79 cu yd
Compacted Cut Volume	85871.64 cu yd
Raw Fill Volume	90390.79 cu yd
Compacted Fill Volume	85871.64 cu yd



**LIGHTING PLAN**  
SCALE: 1"=60'

**LEGEND / ABBREVIATIONS**



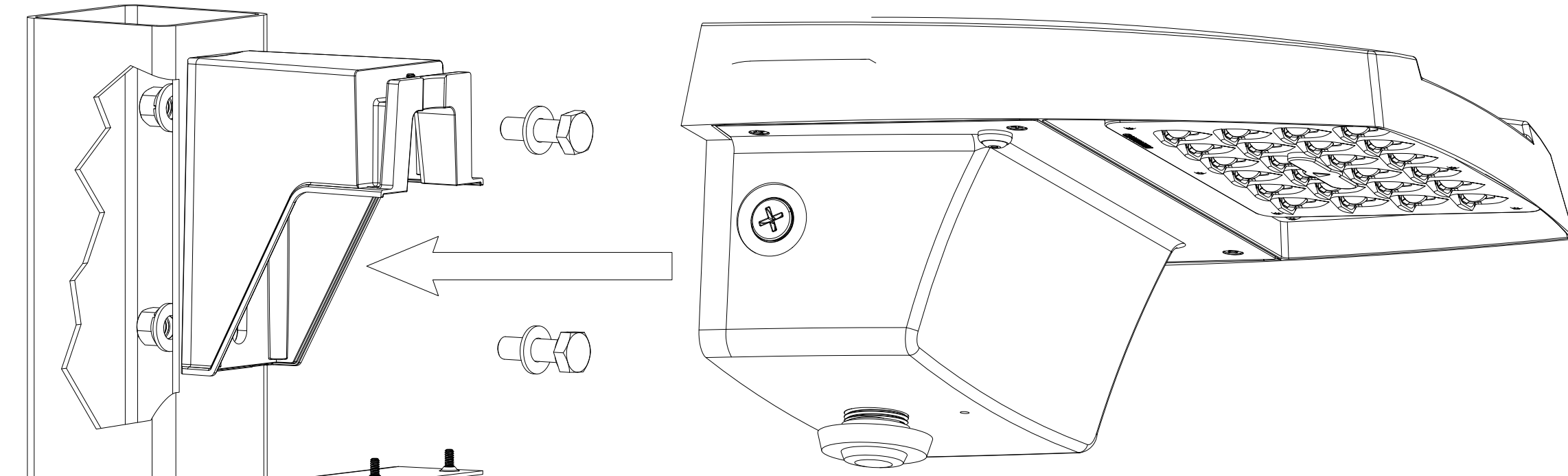
1001 CHESTNUT DRIVE  
SMITHFIELD, NC 27577  
(336) 736-9267



REV. NO.	DESCRIPTION	DATE	BY
1	ADDED GATE & LATCH DETAIL	02/13/20	JWW

**PHILLIPPE BORROW PIT & LCID LANDFILL LIGHTING PLAN & GATING DETAILS**  
**KENNETH PHILLIPPE**  
4115 CLAPP MILL ROAD  
BURLINGTON, NC 27215

PROJECT NUMBER	24-PHILLIPPE-01
DESIGNED BY	JWW
DRAWN BY	CSH
CHECKED BY	JWW
SCALE	AS NOTED
DATE	02/05/2020
2A of 7	



**LUMINAIRE INFORMATION:**

Manufacturer: Lumark  
Model: Prevail P (PRV-P)  
Lamp: LED  
Class: Commercial  
Pattern: Area  
Distribution: Type II  
Shielded: Yes

**SPECIFICATIONS:**

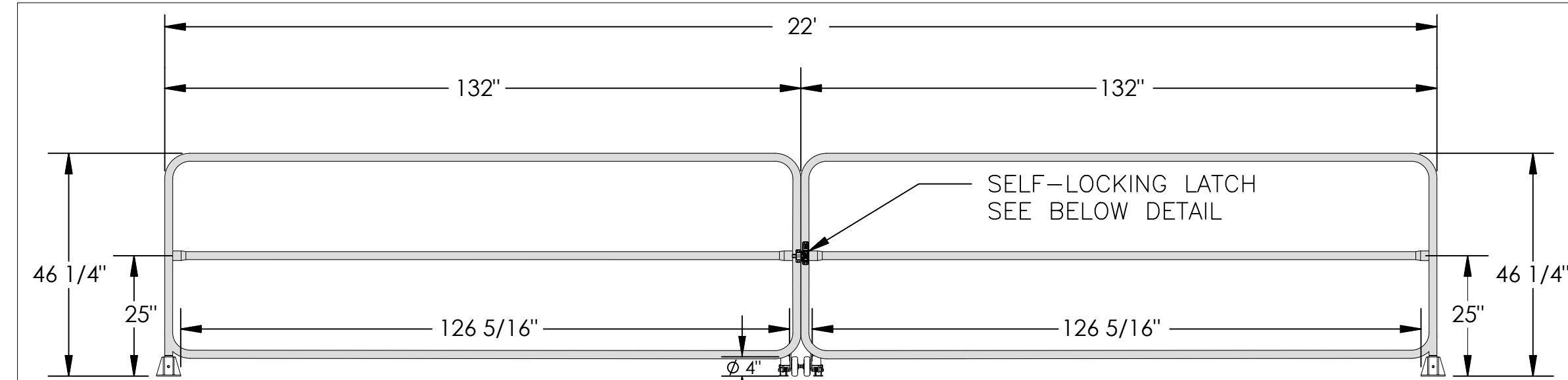
Panel Geometry: Rectangle  
Panel Count: 1  
Driver: Dimming, 0-10V  
Voltage: 120-277V  
Color Temp: 70CRI, 4000K  
Output: 4,900 Nominal Lumens  
Mount: Standard Arm  
Support: Pole

**CERTIFICATIONS:**

Approved by:  
DarkSky International

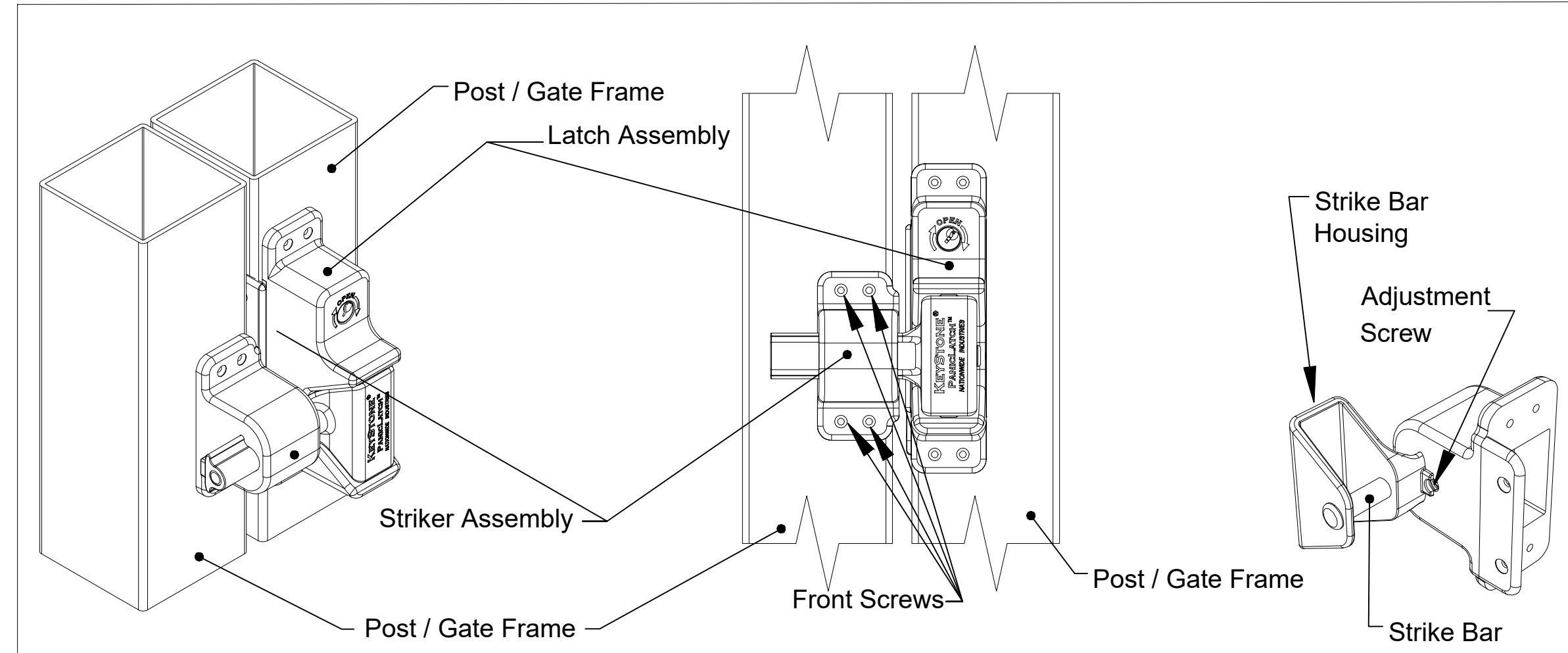
**DETAIL: COMMERCIAL LUMINAIRE FIXTURE - SPREAD PATH TYPE**  
**MANUFACTURER & MODEL: LUMARK PRV-P**

SCALE: NONE



**DETAIL: SECURITY GATE PROFILE, TYP. - DOUBLE-SWING TYPE**

SCALE: NONE



**DETAIL: COMMERCIAL GATE LATCH - SELF-LOCKING TYPE**  
**MANUFACTURER: NATIONWIDE INDUSTRIES**  
**MODEL: KEYSTONE PANICLATCH (KPL), MPN: KPL-P2-BK**

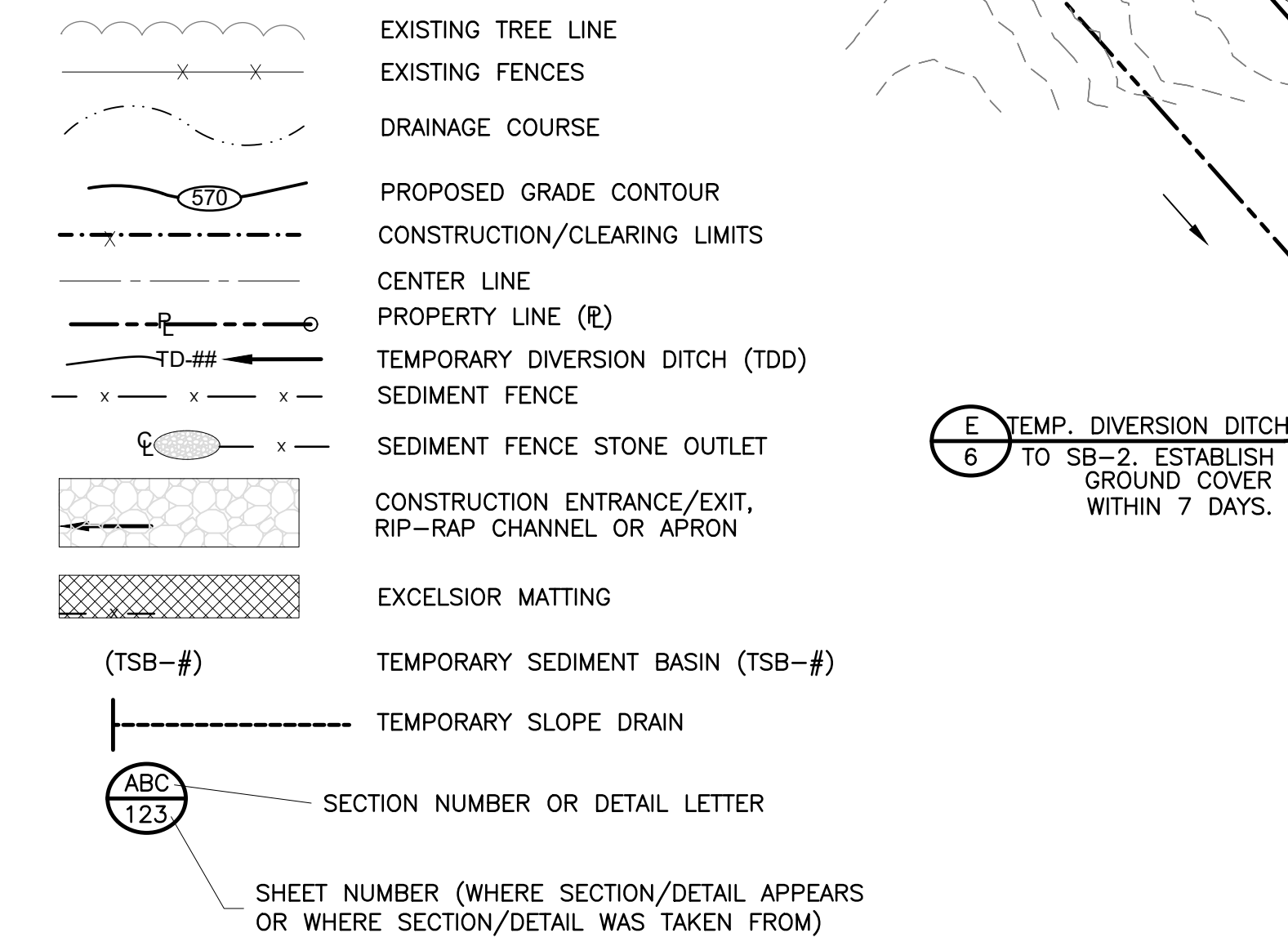
SCALE: NONE

**ADDITIONAL BORROW / WASTE NOTE:**

If the same person conducts the land disturbing activity and any related borrow or waste activity, the related borrow or waste activity shall constitute part of the land-disturbing activity unless the borrow or waste activity is regulated by the Division of Solid Waste Management. If the Land-disturbing activity and any related borrow or waste activity are not conducted by the same person, they shall be considered separate land disturbing activities and must be permitted either through the Sedimentation and Pollution Control Act as a one-use-borrow site or through the Mining Act.

DIVERSION DITCH SCHEDULE										
TDD#	WIDTH (ft.)	DEPTH (ft.)	Q10 (cfs)	SLOPE (%)	VEL (fps)	FLOW DEPTH (ft.)	SHEAR STRESS (psf.) BARE EARTH / VEGETATION	PERMISSIBLE SHEAR STRESS (psf.)	SAFETY FACTOR B. EARTH / VEG.	LINER REQ'D
TD-1A	4.0	2.00	3.83	2.16	3.83	0.95	0.57 / 1.28	4.00	6.97 / 3.12	NONE
TD-1B	4.0	2.00	14.74	3.97	14.74	1.24	1.37 / 3.06	4.00	2.92 / 1.31	NONE
TD-1C	4.0	2.00	18.23	3.60	18.23	1.36	1.37 / 3.06	4.00	1.37 / 3.06	NONE
TD-2A	4.0	2.00	1.75	4.50	1.75	0.59	0.75 / 1.67	4.00	5.36 / 2.40	NONE
TD-2B	4.0	2.00	2.47	5.73	2.47	0.62	0.99 / 2.22	4.00	4.04 / 1.81	NONE

**GRADING AND EROSION CONTROL LEGEND**



**GENERAL EROSION CONTROL NOTES**

1. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO AVOID THE SILTING OF STREAMS, LAKES OR OTHER WATER COURSES DUE TO THE CONSTRUCTION OF THIS PROJECT.
2. EFFECTIVE EROSION CONTROL MEASURES SHALL BE INITIATED PRIOR TO THE COMMENCEMENT OF CLEARING, GRADING, EXCAVATION, OR OTHER OPERATIONS THAT WILL DISTURB THE NATURAL PROTECTION.
3. THE EROSION CONTROL DETAILS SHOWN HEREIN ARE FOR THE CONTRACTOR'S REFERENCE. THE DETERMINATION OF WHICH DETAIL IS APPLICABLE AS THE WORK PROGRESSES SHALL BE AS SHOWN ON THE PLANS OR MADE BY THE ENGINEER.
4. ALL DITCHES SHALL BE STABILIZED AS SOON AS IS PRACTICABLE TO MINIMIZE EROSION. EXCELSIOR MATTING SHALL BE PLACED IN DITCHES AND OTHER AREAS THAT EXHIBIT MULCH DISPLACEMENT FROM VELOCITY SCOUR.
5. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL WITHIN 21 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
6. PROVISIONS FOR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
7. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES IN A GOOD, WORKING STATE OF REPAIR UNTIL THEIR USE IS NO LONGER WARRANTED. AT THAT TIME, THE EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF SO AS TO CAUSE NO STREAM SITUATION.
8. WHERE CULVERT PIPES ARE TO BE INSTALLED UNDER ROADWAY, THE CONTRACTOR SHALL INSTALL THE CULVERTS AS RAPIDLY AS IS PRACTICAL, BACK FILL IMMEDIATELY AND RIP RAP THE UPSTREAM AND DOWNSTREAM SIDES OF THE STREAM CHANNEL. PERMANENT OUTLET PROTECTION SHALL BE PROVIDED AT ANY CULVERT THAT IT PASSES UNDER OR OVER IF THE CULVERT AREA IS DISTURBED.
9. ALL DISTURBED ROAD DITCHES OVER 3/8" WILL BE LINED WITH HIGH VELOCITY EXCELSIOR MATTING AND PERMANENT SEEDING UNLESS OTHERWISE NOTED.
10. SEE EROSION CONTROL DETAIL SHEET FOR TEMPORARY SEDIMENT TRAP SIZING AND CULVERT OUTLET STABILIZATION.

**GENERAL CONSTRUCTION SEQUENCE**

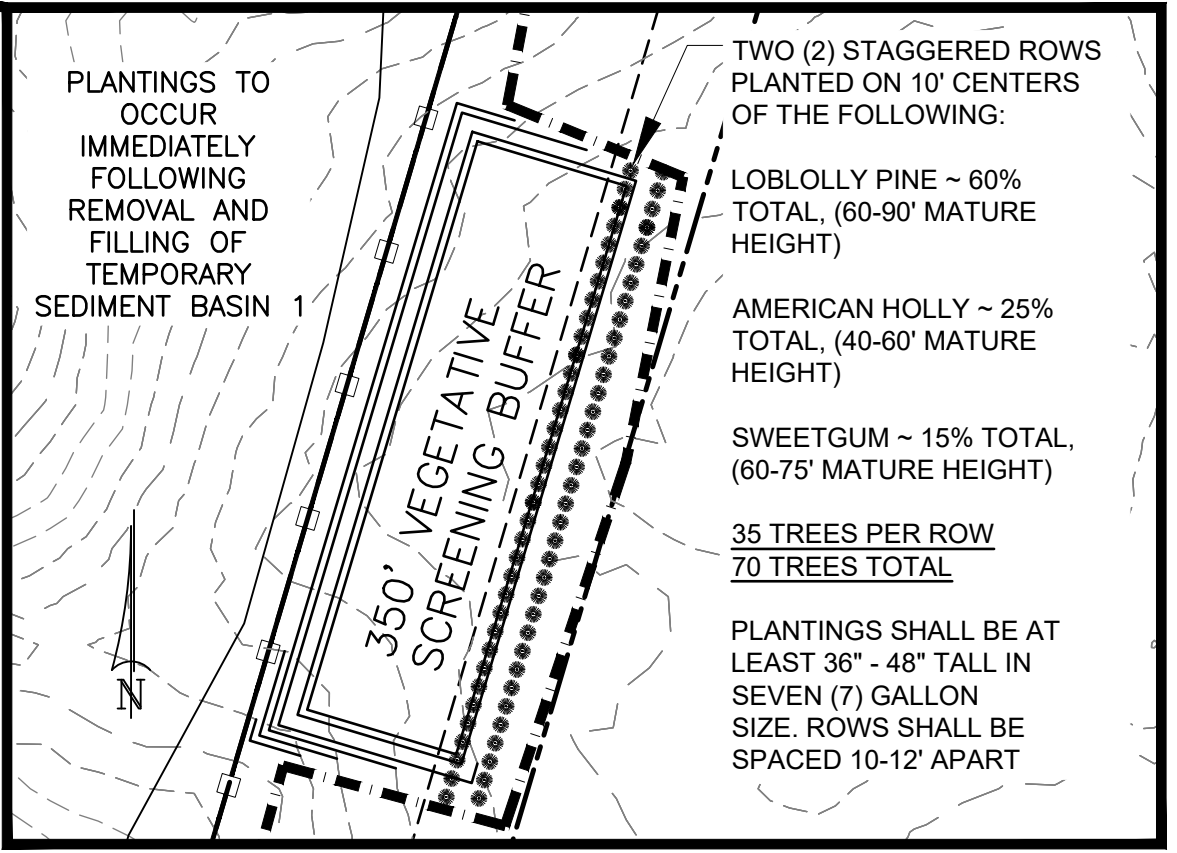
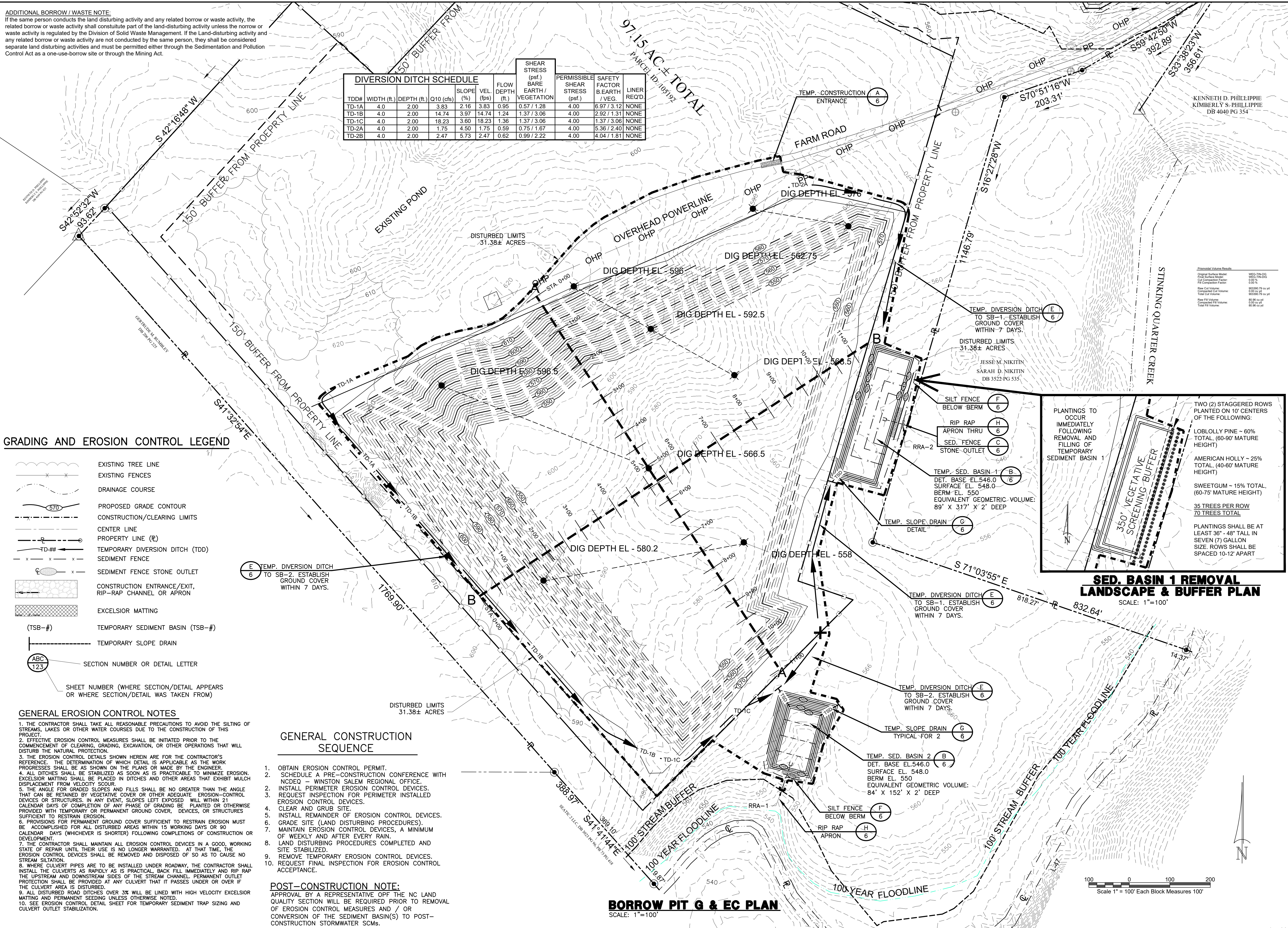
1. OBTAIN EROSION CONTROL PERMIT.
2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH NCDEQ - WINSTON SALEM REGIONAL OFFICE.
3. INSTALL PERIMETER EROSION CONTROL DEVICES.
4. REQUEST INSPECTION FOR PERIMETER INSTALLED EROSION CONTROL DEVICES.
5. CLEAR AND GRUB SITE.
6. INSTALL REMAINDER OF EROSION CONTROL DEVICES.
7. GRADE SITE (LAND DISTURBING PROCEDURES).
8. MAINTAIN EROSION CONTROL DEVICES, A MINIMUM OF WEEKLY AND AFTER EVERY RAIN.
9. LAND DISTURBING PROCEDURES COMPLETED AND SITE STABILIZED.
10. REMOVE TEMPORARY EROSION CONTROL DEVICES.
11. REQUEST FINAL INSPECTION FOR EROSION CONTROL ACCEPTANCE.

**POST-CONSTRUCTION NOTE:**

APPROVAL BY A REPRESENTATIVE OF THE NC LAND QUALITY SECTION WILL BE REQUIRED PRIOR TO REMOVAL OF EROSION CONTROL MEASURES AND / OR CONVERSION OF THE SEDIMENT BASIN(S) TO POST-CONSTRUCTION STORMWATER SCMS.

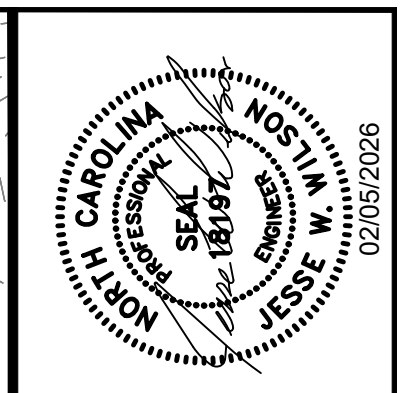
**BORROW PIT G & EC PLAN**

SCALE: 1"=100'



Proposed Volume Results

Original Surface Model	WEG-TM-02
Final Surface Model	WEG-TM-02
Cut Compaction Factor	0.95
Fill Compaction Factor	0.95
Raw Cut Volume	90390.79 cu yd
Compacted Cut Volume	85870.69 cu yd
Raw Fill Volume	90390.79 cu yd
Compacted Fill Volume	85870.69 cu yd



1001 CHESTNUT DRIVE  
SMITHFIELD, NC 27577  
(336) 736-9267



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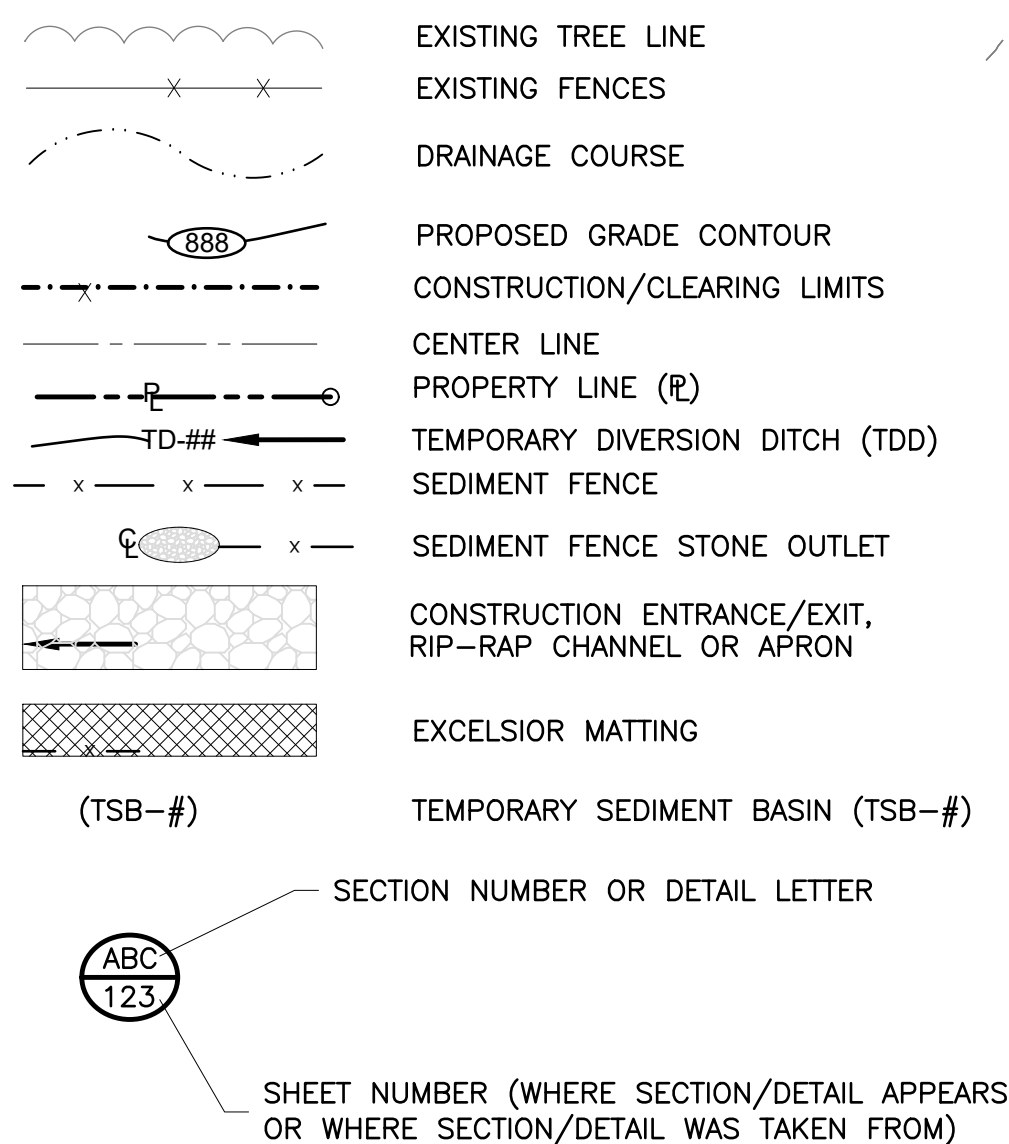
PHILLIPPE BORROW PIT & LCID LANDFILL  
BORROW PIT CONSTRUCTION  
GRADING & EROSION CONTROL PLAN  
KENNETH PHILLIPPE  
4115 CLAPP MILL ROAD  
BURLINGTON, NC 27215

PROJECT NUMBER	24-PHILLIPPE-01
DESIGNED BY	JWW
DRAWN BY	JWW
CHECKED BY	JWW
SCALE	AS NOTED
DATE	02/05/2026
	3 of 7

**ADDITIONAL BORROW / WASTE NOTE:**  
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DIVERSION DITCH SCHEDULE						FLOW DEPTH (ft.)	SHEAR STRESS (psf.) BARE EARTH / VEGETATION	PERMISSIBLE SHEAR STRESS (psf.)	SAFETY FACTOR B.EARTH / VEG.	LINER REQ'D
TDD#	WIDTH (ft.)	DEPTH (ft.)	Q10 (cfs)	SLOPE (%)	VEL (fps)					
TD-1A	4.0	2.00	3.83	2.16	3.83	0.95	0.57 / 1.28	4.00	6.97 / 3.12	NONE
TD-1B	4.0	2.00	14.74	3.97	14.74	1.24	1.37 / 3.06	4.00	2.92 / 1.31	NONE
TD-1C	4.0	2.00	18.23	3.60	18.23	1.36	1.37 / 3.06	4.00	1.37 / 3.06	NONE
TD-2A	4.0	2.00	1.75	4.50	1.75	0.59	0.75 / 1.67	4.00	5.36 / 2.40	NONE
TD-2B	4.0	2.00	2.47	5.73	2.47	0.62	0.99 / 2.22	4.00	4.04 / 1.81	NONE

**GRADING AND EROSION CONTROL LEGEND**



**GENERAL EROSION CONTROL NOTES**

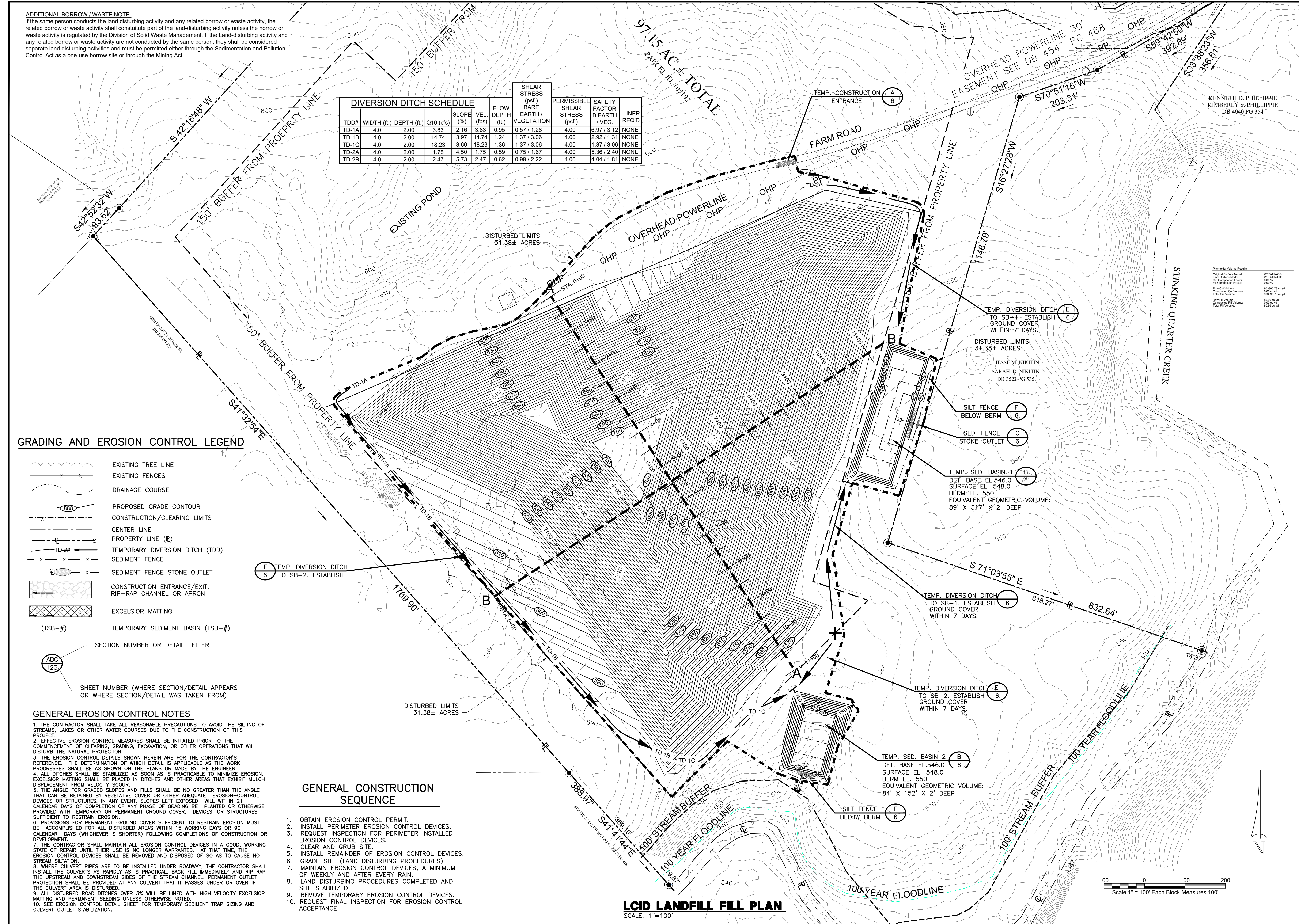
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9. ALL DISTURBED ROAD DITCHES OVER 3% WILL BE LINED WITH HIGH VELOCITY EXCELSIOR MATTING AND PERMANENT SEEDING UNLESS OTHERWISE NOTED.
10. SEE EROSION CONTROL DETAIL SHEET FOR TEMPORARY SEDIMENT TRAP SIZING AND CULVERT OUTLET STABILIZATION.

**GENERAL CONSTRUCTION SEQUENCE**

1. OBTAIN EROSION CONTROL PERMIT.
2. INSTALL PERIMETER EROSION CONTROL DEVICES.
3. REQUEST INSPECTION FOR PERIMETER INSTALLED EROSION CONTROL DEVICES.
4. CLEAR AND GRUB SITE.
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6. GRADE SITE (LAND DISTURBING PROCEDURES).
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8. LAND DISTURBING PROCEDURES COMPLETED AND SITE STABILIZED.
9. REMOVE TEMPORARY EROSION CONTROL DEVICES.
10. REQUEST FINAL INSPECTION FOR EROSION CONTROL ACCEPTANCE.

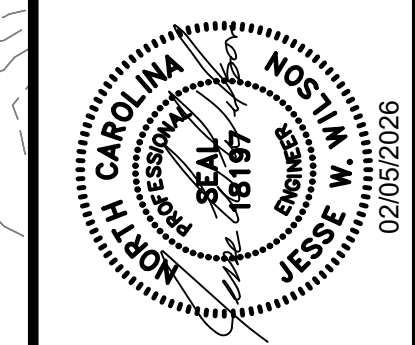
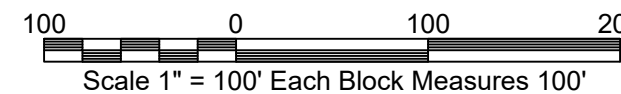
**LCID LANDFILL FILL PLAN**

SCALE: 1"=100'



Proposed Volume Results

Original Surface Volume	100,000 cu yd
Final Surface Volume	100,000 cu yd
Excavated Volume	100,000 cu yd
Imported Volume	100,000 cu yd
Exported Volume	100,000 cu yd
Net Volume	100,000 cu yd
Total Volume	100,000 cu yd



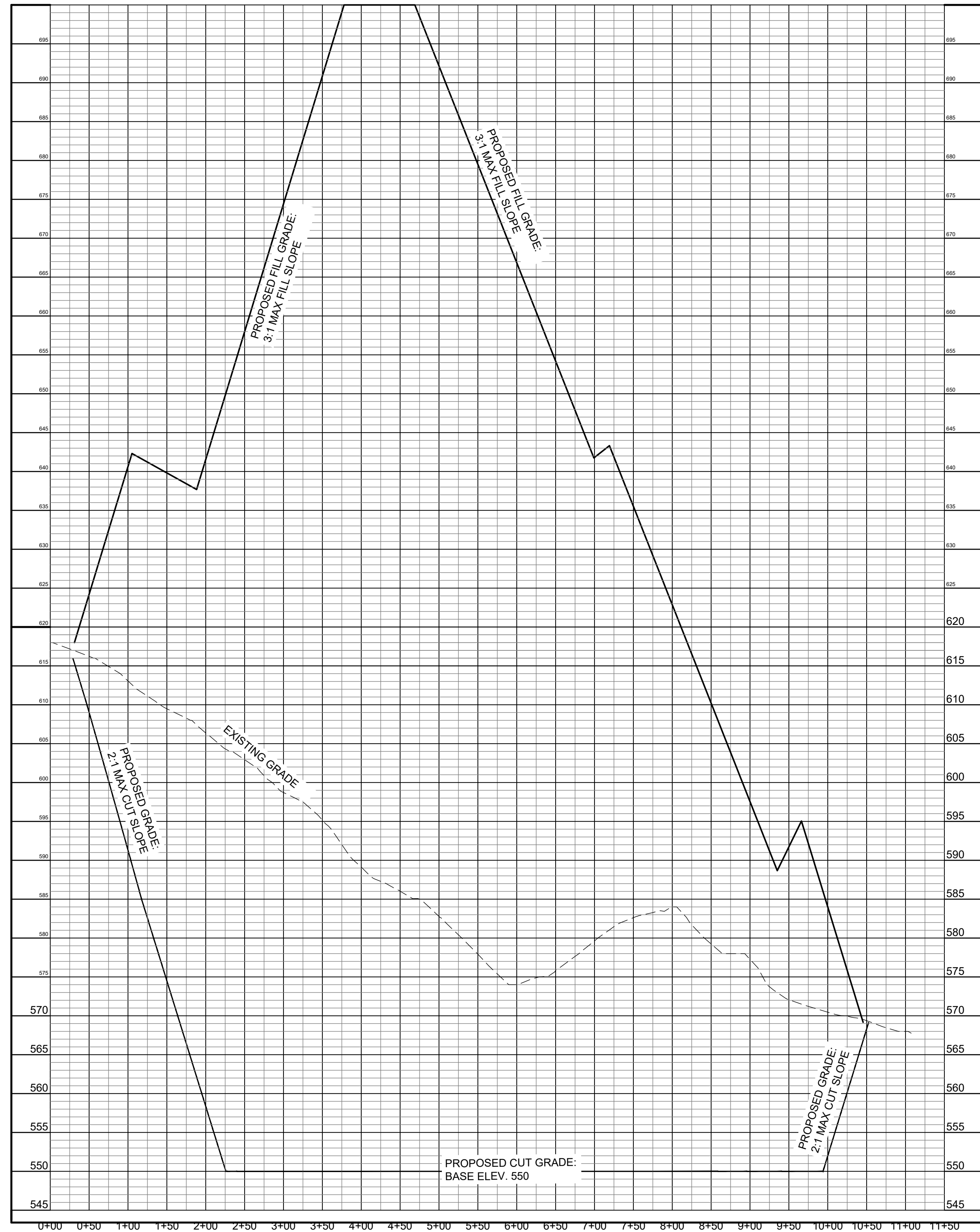
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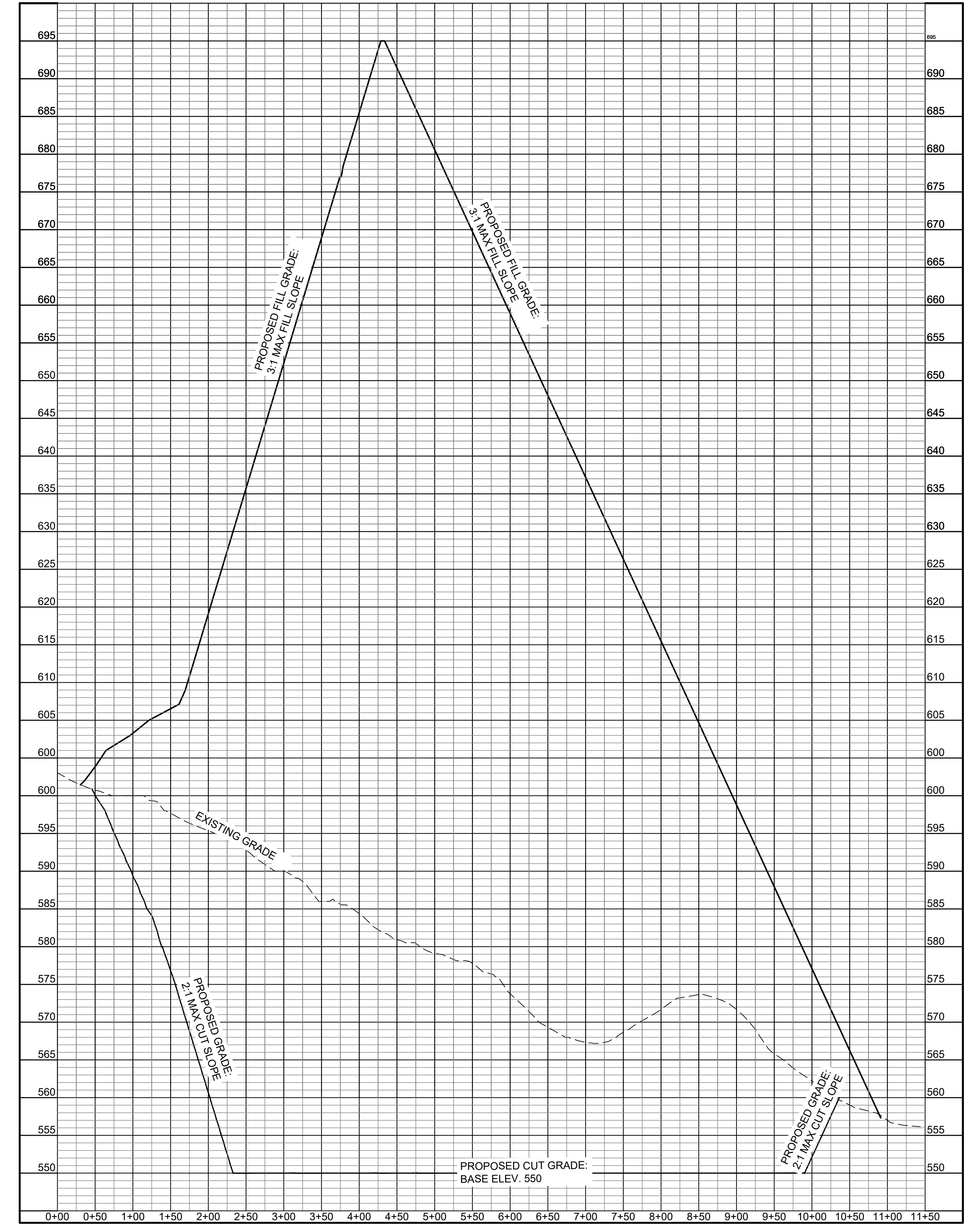
**PHILLIPPIE BORROW PIT & LCID LANDFILL  
 LCID LANDFILL  
 GRADING & EROSION CONTROL PLAN**  
 KENNETH PHILLIPPIE  
 4115 CLAPP MILL ROAD  
 BURLINGTON, NC 27215

PROJECT NUMBER  
 24-PHILLIPPIE-01  
 DESIGNED BY  
 JWW  
 DRAWN BY  
 JWW  
 CHECKED BY  
 JWW  
 SCALE  
 AS NOTED  
 DATE  
 02/05/2026



**SECTION A-A**  
SCALE: H: 1"=50', V: 1"=5'

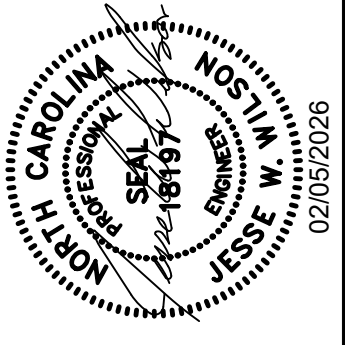
SEE SHEETS 3 & 4 FOR SECTION LINES:



**SECTION B-B**  
SCALE: H: 1"=50', V: 1"=5'

SEE SHEETS 3 & 4 FOR SECTION LINES:

**LCID LANDFILL CUT - FILL SECTIONS**  
SCALE: 1"=100'



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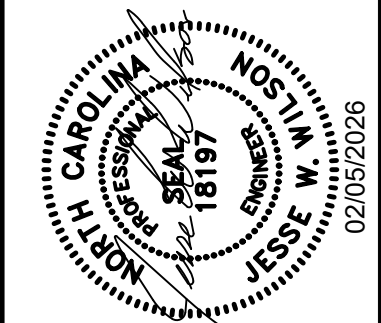


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**PHILLIPPIE BORROW PIT & LCID LANDFILL  
PIT & FILL SECTIONS  
GRADING & EROSION CONTROL PLAN**  
**KENNETH PHILLIPPIE  
4115 CLAPP MILL ROAD  
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24-PHILLIPPIE-01  
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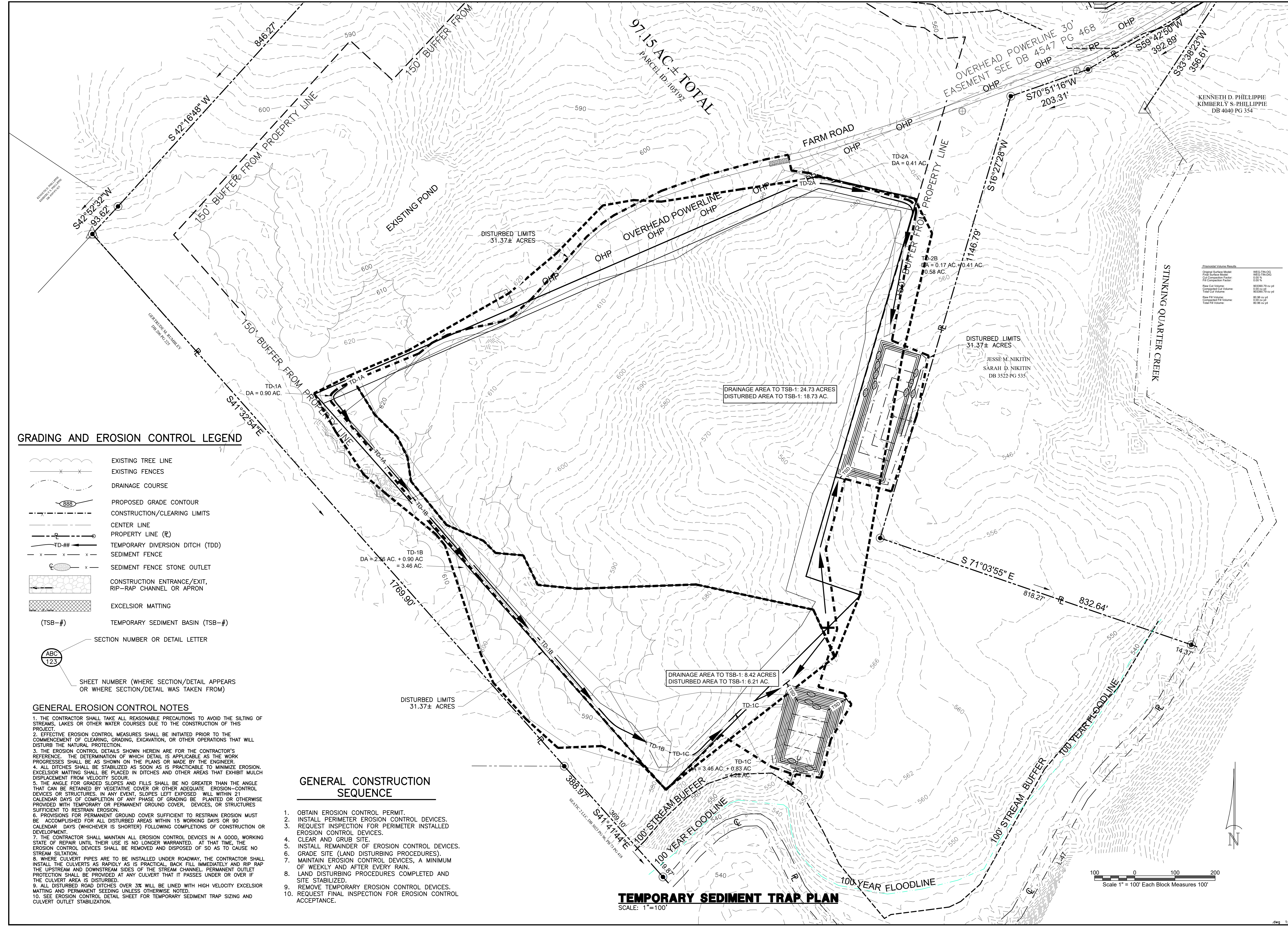
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REV. NO.	DESCRIPTION	DATE	BY	APP'D

**PHILLIPPIE BORROW PIT & LCID LANDFILL SITE**  
**DRAINAGE AREA DELINEATIONS**  
**KENNETH PHILLIPPIE**  
**4115 CLAPP MILL ROAD**  
**BURLINGTON, NC 27215**

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7 OF 7



### GRADING AND EROSION CONTROL LEGEND

- EXISTING TREE LINE
- EXISTING FENCES
- DRAINAGE COURSE
- PROPOSED GRADE CONTOUR
- CONSTRUCTION/CLEARING LIMITS
- CENTER LINE
- PROPERTY LINE (P)
- TEMPORARY DIVERSION DITCH (TDD)
- SEDIMENT FENCE
- SEDIMENT FENCE STONE OUTLET
- CONSTRUCTION ENTRANCE/EXIT, RIP-RAP CHANNEL OR APRON
- EXCELSIOR MATTING
- (TSB-#) TEMPORARY SEDIMENT BASIN (TSB-#)
- SECTION NUMBER OR DETAIL LETTER
- SHEET NUMBER (WHERE SECTION/DETAIL APPEARS OR WHERE SECTION/DETAIL WAS TAKEN FROM)

### GENERAL EROSION CONTROL NOTES

- THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO AVOID THE SILTING OF STREAMS, LAKES OR OTHER WATER COURSES DUE TO THE CONSTRUCTION OF THIS PROJECT.
- EFFECTIVE EROSION CONTROL MEASURES SHALL BE INITIATED PRIOR TO THE COMMENCEMENT OF CLEARING, GRADING, EXCAVATION, OR OTHER OPERATIONS THAT WILL DISTURB THE NATURAL PROTECTION.
- THE EROSION CONTROL DETAILS SHOWN HEREIN ARE FOR THE CONTRACTOR'S REFERENCE. THE DETERMINATION OF WHICH DETAIL IS APPLICABLE AS THE WORK PROGRESSES SHALL BE AS SHOWN ON THE PLANS OR MADE BY THE ENGINEER.
- ALL DITCHES SHALL BE STABILIZED AS SOON AS IS PRACTICABLE TO MINIMIZE EROSION. EXCELSIOR MATTING SHALL BE PLACED IN DITCHES AND OTHER AREAS THAT EXHIBIT MULCH DISPLACEMENT FROM VELOCITY SCOUR.
- THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL WITHIN 21 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
- PROVISIONS FOR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES IN A GOOD, WORKING STATE OF REPAIR UNTIL THEIR USE IS NO LONGER WARRANTED. AT THAT TIME, THE EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF SO AS TO CAUSE NO STREAM SILTATION.
- WHERE CULVERTS ARE TO BE INSTALLED UNDER ROADWAY, THE CONTRACTOR SHALL INSTALL THE CULVERTS AS RAPIDLY AS IS PRACTICAL BACK FILL IMMEDIATELY AND RIP RAP THE UPSTREAM AND DOWNSTREAM SIDES OF THE STREAM CHANNEL. PERMANENT OUTLET PROTECTION SHALL BE PROVIDED AT ANY CULVERT THAT IT PASSES UNDER OR OVER IF THE CULVERT AREA IS DISTURBED.
- ALL DISTURBED ROAD DITCHES OVER 3% WILL BE LINED WITH HIGH VELOCITY EXCELSIOR MATTING AND PERMANENT SEEDING UNLESS OTHERWISE NOTED.
- SEE EROSION CONTROL DETAIL SHEET FOR TEMPORARY SEDIMENT TRAP SIZING AND CULVERT OUTLET STABILIZATION.

### GENERAL CONSTRUCTION SEQUENCE

- OBTAIN EROSION CONTROL PERMIT.
- INSTALL PERIMETER EROSION CONTROL DEVICES.
- REQUEST INSPECTION FOR PERIMETER INSTALLED EROSION CONTROL DEVICES.
- CLEAR AND GRUB SITE.
- INSTALL REMAINDER OF EROSION CONTROL DEVICES.
- GRADE SITE (LAND DISTURBING PROCEDURES).
- MAINTAIN EROSION CONTROL DEVICES, A MINIMUM OF WEEKLY AND AFTER EVERY RAIN.
- LAND DISTURBING PROCEDURES COMPLETED AND SITE STABILIZED.
- REMOVE TEMPORARY EROSION CONTROL DEVICES.
- REQUEST FINAL INSPECTION FOR EROSION CONTROL ACCEPTANCE.

### TEMPORARY SEDIMENT TRAP PLAN

SCALE: 1"=100'

