

SHAWBORO EAST RIDGE SOLAR - PHASE 1A

EAST RIDGE RD
SHAWBORO, NORTH CAROLINA
CURRITUCK COUNTY

PERMIT DRAWINGS
JAN 31, 2025
NOT FOR
CONSTRUCTION

THIS DRAWING PREPARED AT THE
ELIZABETH CITY OFFICE
1805 West City Drive, Unit E | Elizabeth City, NC 27909
TEL 252.621.5030 FAX 252.592.0974 www.timmons.com

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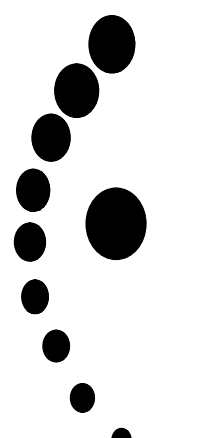
DATE
01/24/25

DRAWN BY
SCL

DESIGNED BY
KDH

CHECKED BY
KDH

SCALE
NO SCALE



TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

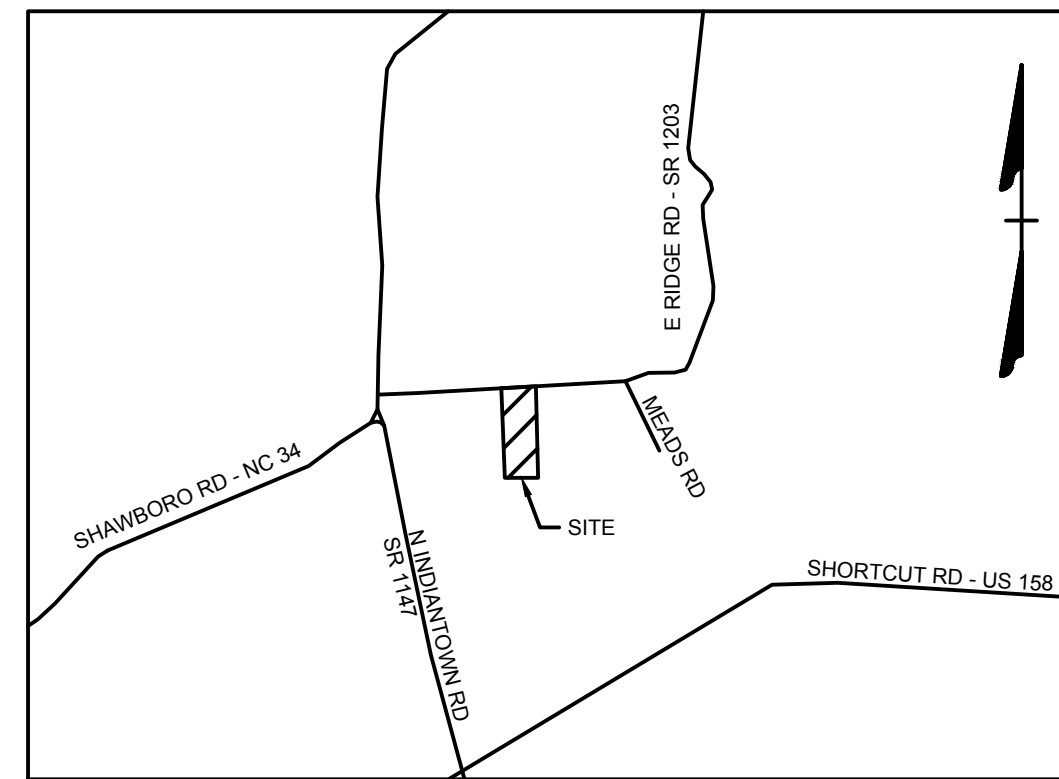
SHAWBORO EAST RIDGE SOLAR PHASE - 1A
CRAWFORD TNSP - CURRITUCK COUNTY - NORTH CAROLINA
COVER SHEET

JOB NO.
47198
SHEET NO.
C0.0

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GENERAL NOTES:

- SUP CONDITIONS OF APPROVAL
- PHASE 1A WILL INCLUDE 1 MONITORING WELL. A TOTAL OF 6 ARE REQUIRED FOR THE PROJECT.
- BUFFER STANDARDS AND STORMWATER REQUIREMENTS IN THE UDO WILL BE MET.
- THE APPLICANT WILL ADHERE TO ALL SETBACKS AND BUFFER REQUIREMENTS IN THE UDO. A TYPE D BUFFER WILL BE PROVIDED AROUND THE DEVELOPEMENT.
- THE DEVELOPMENT AREA WILL BE FENCED BUT ACCESS TO LANDLOCKED PROPERTY WILL BE ALLOWED.
- FOLLOWING INSTALLATION, ALL FIXTURES, PANELS, AND EQUIPMENT WILL BE INSTALLED TO ENGINEERING SPECIFICATIONS, SPECIFICALLY WITH TORQUE.
- ACCESS DOORS FOR BUILDINGS THAT HOUSE INVERTER EQUIPMENT MUST FACE AWAY FROM THE NAVAL SUPPORT ACTIVITY NORTHWEST ANNEX.
- NO PANELS OR EQUIPMENT WILL EXCEED 20' ABOVE GRADE.
- PANELS AND EQUIPMENT WILL BE CONFIGURED TO AVOID GLARE BEYOND THE EXTERIOR PROPERTY LINES.
- HOURS OF OPERATION DURING CONSTRUCTION PHASE SHALL BE FROM 7:00AM TO 7:00PM, MONDAY THROUGH SATURDAY.
- NO SHIPPING CONTAINERS PERMITTED ON SITE.
- PRIOR TO CO, CERTIFICATE FROM LANDSCAPE CONTRACTOR WILL BE PROVIDED PER SECTION 4.2.3.K.6.B OF THE CURRITUCK COUNTY UDO.



VICINITY MAP
NO SCALE

SHEET LIST

SHEET NUMBER	SHEET TITLE
C0.0	COVER SHEET
C1.0	EXISTING CONDITIONS AND DEMOLITION PLAN
C1.1	EXISTING CONDITIONS AND DEMOLITION PLAN
C2.0	SITE PLAN
C2.1	SITE PLAN
C2.2	SITE PLAN
C3.0	GRADING AND DRAINAGE PLAN
C3.1	GRADING AND DRAINAGE PLAN
C3.2	GRADING AND DRAINAGE PLAN
C3.3	EROSION AND SEDIMENT CONTROL PLAN
C3.4	EROSION AND SEDIMENT CONTROL PLAN
C4.0	CONSTRUCTION DETAILS
C4.1	EROSION AND SEDIMENT CONTROL DETAILS
C4.2	EROSION AND SEDIMENT CONTROL DETAILS
C4.3	STORMWATER DETAILS

OWNER
EAST RIDGE LAND HOLDINGS, LLC
595 SUMMER ST.
4TH FLOOR
STAMFORD, CT 06901
CONTACT: CECIL MOORE
KENNY HABUL, MANAGER
EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
PHONE: (252) 825-1731

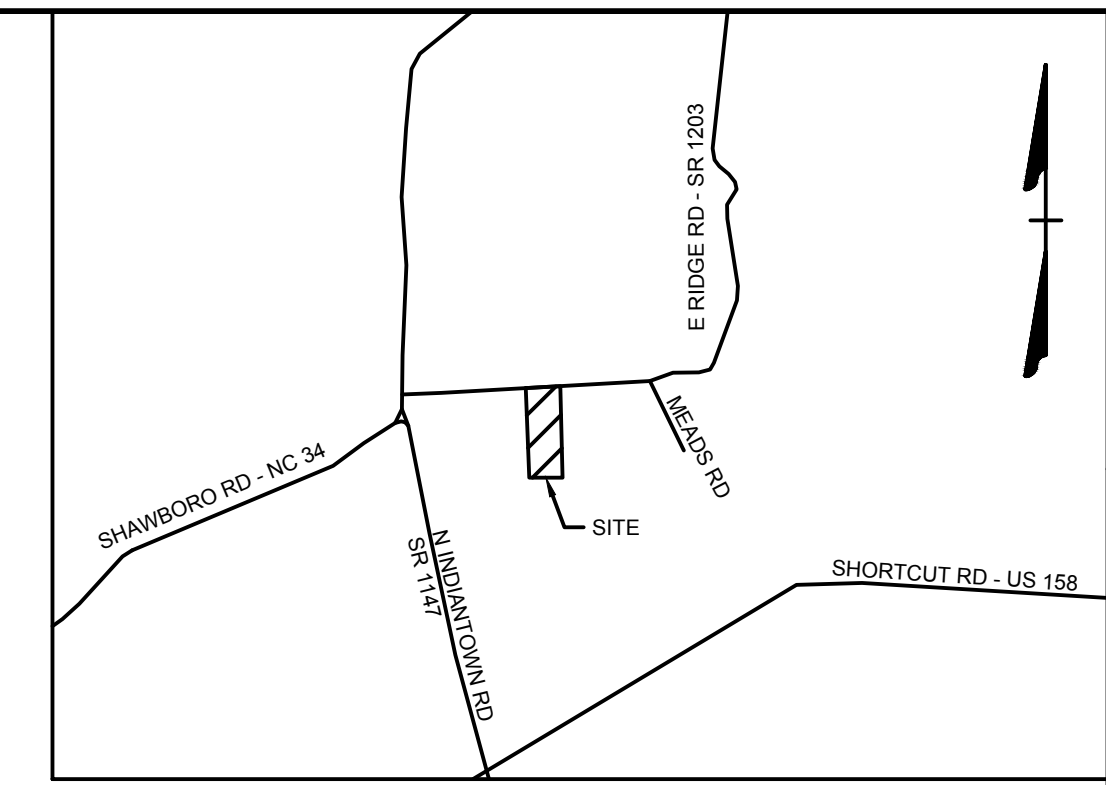
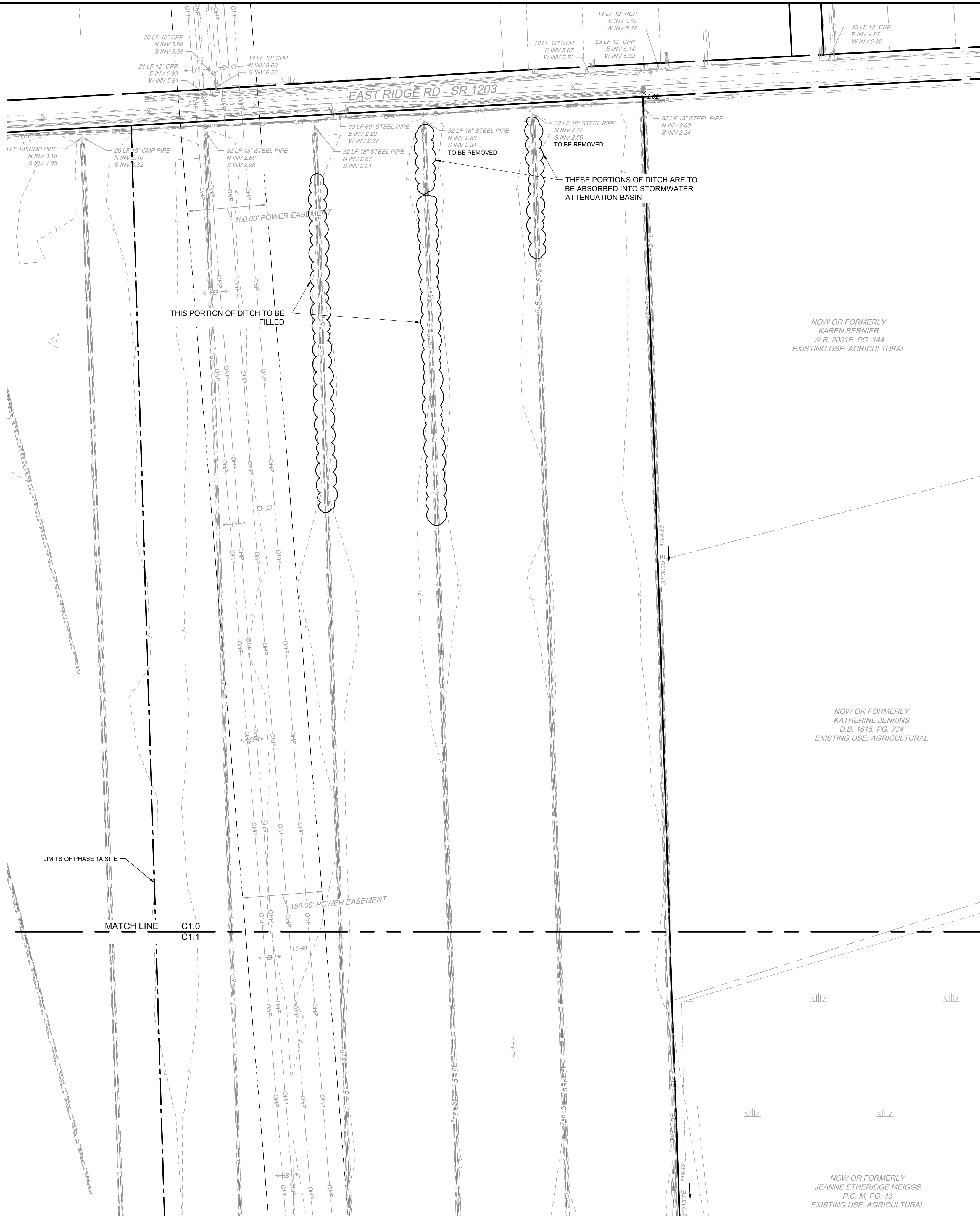
DEVELOPER
SHAWBORO EAST RIDGE SOLAR, LLC
595 SUMMER ST.
4TH FLOOR
STAMFORD, CT 06901
CONTACT: CECIL MOORE
KENNY HABUL, MANAGER
EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
PHONE: (252) 825-1731

CIVIL ENGINEER
TIMMONS GROUP
1805 WEST CITY DRIVE, UNIT E
ELIZABETH CITY, NC 27909
PHONE: (252) 621-5030
EMAIL: (252) 562-6974
CONTACT: KIMBERLY D. HAMBY, P.E.
EMAIL: KIM.HAMBY@TIMMONS.COM



SITE DATA:

- OWNER:
EAST RIDGE LAND HOLDINGS, LLC
595 SUMMER ST.
4TH FLOOR
STAMFORD, CT 06901
CONTACT: CECIL MOORE
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4TH FLOOR
STAMFORD, CT 06901
CONTACT: CECIL MOORE
KENNY HABUL, MANAGER
EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
PHONE: (252) 825-1731
- SITE INFORMATION:
TOTAL TRACT ACREAGE: 199.88 AC
PHASE 1A SITE AREA: 56.15 AC
D.B. 1791, PG. 787
ZONING: AG (AGRICULTURAL)
EXISTING USE: VACANT/AGRICULTURAL
PROPOSED USE: SOLAR ENERGY FARM
- MINIMUM BUILDING SETBACKS:
FRONT: 150'
SIDE: 150'
CORNER SIDE: 150'
REAR: 150'
- THE PROPERTY IS LOCATED IN FLOOD ZONE "X", AS SHOWN ON FLOOD MAP PANEL 3720884600L, DATED DECEMBER 21, 2018 AND SUBJECT TO CHANGE BY FEMA.
- BOUNDARY AND TOPOGRAPHIC SURVEY DATA PROVIDED BY ROANOKE LAND SURVEYING, PA. RANDOLPH P. NICHOLSON, PLS.
- ON-SITE COVERAGE CALCULATIONS:
PROPOSED IMPERVIOUS COVERAGE:
GRAVEL: 268,737 SF (10.99%)
- CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP EROSION CONTROL DEVICES IN GOOD WORKING ORDER MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.
- ANY FILL BROUGHT ON SITE SHALL BE FROM AN APPROVED SITE/MINE. ANY MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED ON AN APPROVED LOCATION.
- DISTURBED AREA WILL NOT EXCEED 56.13 ACRES.



VICINITY MAP
NO SCALE

LEGEND

	BENCHMARK
	EXISTING IRON REBAR (EIR)
	CALCULATED POINT
	EX FIRE HYDRANT
	EX WATER VALVE
	EX TELEPHONE PEDESTAL
	EX LIGHT POLE
	EX POWER POLE
	EX GUY ANCHOR
	EX POWER METER
	EX POWER BOX
	EX SIGN
	EX BOLLARD
	EX TREE
	PROP MONITORING WELL
	PHASE LIMITS LINE
	PROPERTY BOUNDARY
	RIGHT OF WAY
	ADJACENT PROPERTY BOUNDARY
	BUILDING SETBACK LINE
	EASEMENT
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	EX ROAD CENTERLINE
	EX OVERHEAD POWER
	EX NATURAL GAS LINE
	EX WATER LINE
	EX DITCH BOTTOM
	EX TOP OF BANK
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	EX STORM PIPE
	EX EDGE OF TREE LINE
	EX WETLANDS
	PROP GRAVEL
	PROP LANDSCAPE BUFFER
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	PROP MINOR CONTOUR
	PROP STORM PIPE
	PROP OVERHEAD POWER
	PROP SWALE

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SCALE	1" = 100'

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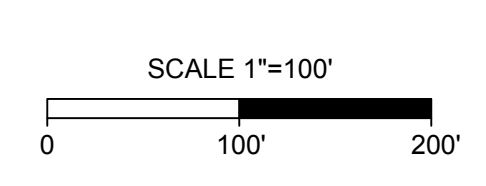
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EXISTING CONDITIONS AND DEMOLITION PLAN

JOB NO.	47198
SHEET NO.	C1.0

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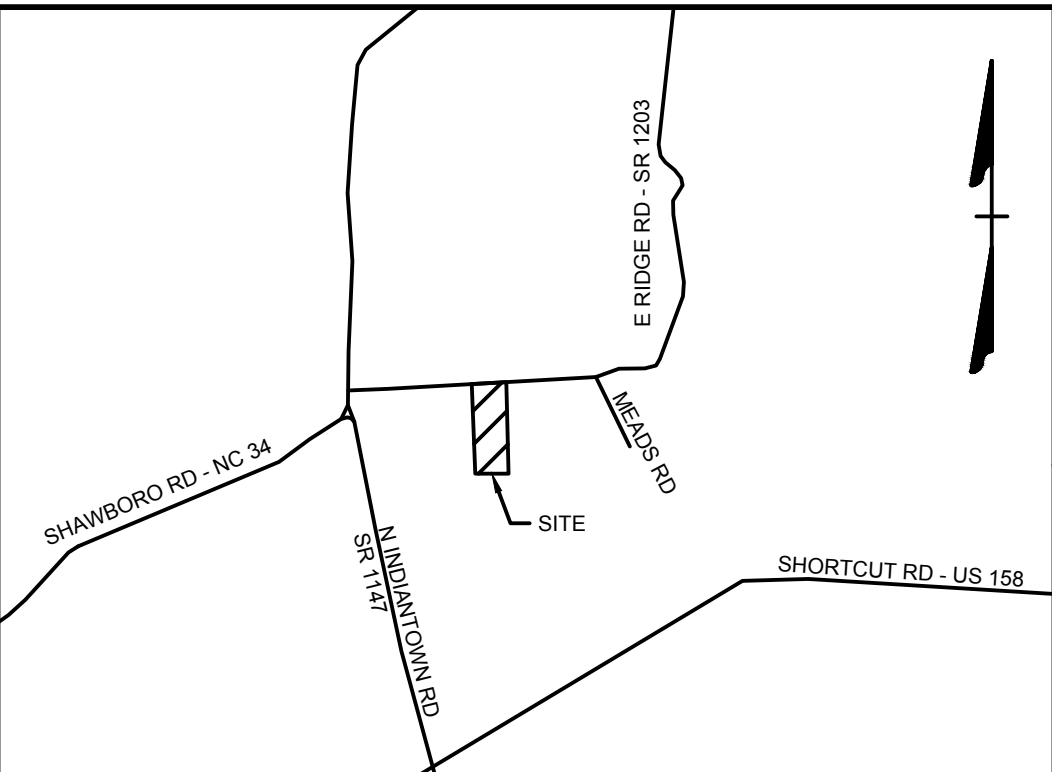
NOW OR FORMERLY
JEANNE ETHERIDGE MEIGGS
P.C.M, PG. 43
EXISTING USE: AGRICULTURAL



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SITE DATA:

- OWNER:
EAST RIDGE LAND HOLDINGS, LLC
595 SUMMER ST.
4TH FLOOR
STAMFORD, CT 06901
CONTACT: CECIL MOORE
KENNY HABUL, MANAGER
EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
PHONE: (252) 825-1731
- DEVELOPER:
SHAWBORO EAST RIDGE SOLAR, LLC
595 SUMMER ST.
4TH FLOOR
STAMFORD, CT 06901
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KENNY HABUL, MANAGER
EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
PHONE: (252) 825-1731
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PHASE 1A SITE AREA: 56.15 AC
D.B. 1791, PG. 787
ZONING: AG (AGRICULTURAL)
EXISTING USE: VACANT/AGRICULTURAL
PROPOSED USE: SOLAR ENERGY FARM
- MINIMUM BUILDING SETBACKS:
FRONT: 150'
SIDE: 150'
CORNER SIDE: 150'
REAR: 150'
- THE PROPERTY IS LOCATED IN FLOOD ZONE "X", AS SHOWN ON FLOOD MAP PANEL 3720884600L, DATED DECEMBER 21, 2018 AND SUBJECT TO CHANGE BY FEMA.
- BOUNDARY AND TOPOGRAPHIC SURVEY DATA PROVIDED BY ROANOKE LAND SURVEYING, PA, RANDOLPH P. NICHOLSON, PLS.
- ON-SITE COVERAGE CALCULATIONS:
PROPOSED IMPERVIOUS COVERAGE:
GRAVEL: 268,737 SF (10.99%)
- CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP EROSION CONTROL DEVICES IN GOOD WORKING ORDER MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.
- ANY FILL BROUGHT ON SITE SHALL BE FROM AN APPROVED SITES/MINE. ANY MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED ON/IN AN APPROVED LOCATION.
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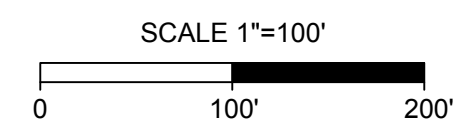
VICINITY MAP
NO SCALE

NOW OR FORMERLY
KATHERINE JENKINS
D.B. 1615, PG. 734
EXISTING USE: AGRICULTURAL

NOW OR FORMERLY
JEANNE ETHERIDGE MEIGGS
P.C. M, PG. 43
EXISTING USE: AGRICULTURAL

LEGEND

- BENCHMARK
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- CALCULATED POINT
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CRAWFORD TNSP - CURRITUCK COUNTY - NORTH CAROLINA
EXISTING CONDITIONS AND DEMOLITION PLAN

JOB NO.
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SHEET NO.
C1.1

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STORMWATER CERTIFICATION

I, KIMBERLY D. HAMBY, PE, AGENT, HEREBY CERTIFY THE INFORMATION INCLUDED ON THIS AND ATTACHED PAGES IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

ON THE PLAN ENTITLED "SHAWBORO EAST RIDGE SOLAR - PAHSE 1A, STORMWATER DRAINAGE IMPROVEMENTS SHALL BE INSTALLED ACCORDING TO THESE PLANS AND SPECIFICATIONS AND APPROVED BY CURRITUCK COUNTY. YEARLY INSPECTIONS ARE REQUIRED AS PART OF THE STORMWATER PLAN. THE OWNER IS RESPONSIBLE FOR ALL MAINTENANCE REQUIRED. CURRITUCK COUNTY ASSUMES NO RESPONSIBILITY FOR THE DESIGN, MAINTENANCE, OR PERFORMANCE OF THE STORMWATER IMPROVEMENTS.

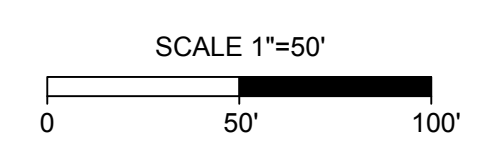
DATE _____ OWNER/AGENT _____

SITE DATA:

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4TH FLOOR
STAMFORD, CT 06901
CONTACT: CECIL MOORE
KENNY HASBUL, MANAGER
EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
PHONE: (252) 825-1731
- DEVELOPER:**
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CONTACT: CECIL MOORE
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EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
PHONE: (252) 825-1731
- SITE INFORMATION:**
PARCEL ID NO. 003400024P0000
TOTAL TRACT ACREAGE: 199.88 AC
PHASE 1A SITE AREA: 56.15 AC
D.B. 1791, PG. 767
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EXISTING USE: VACANT/AGRICULTURAL
PROPOSED USE: SOLAR ENERGY FARM
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FRONT: 150'
SIDE: 150'
CORNER SIDE: 150'
REAR: 150'
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CRAWFORD TNSP - CURRITUCK COUNTY - NORTH CAROLINA

GRADING AND DRAINAGE PLAN

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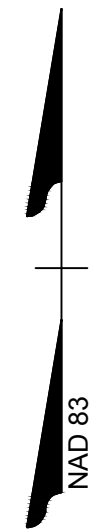


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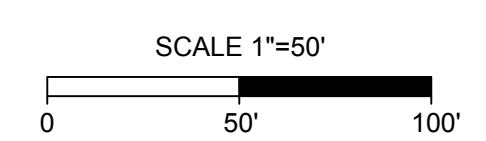
NOW OR FORMERLY
KATHERINE JENKINS
D.B. 1615, PG. 734
EXISTING USE: AGRICULTURAL

- SITE DATA:**
- OWNER:**
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STAMFORD, CT 06901
CONTACT: CECIL MOORE
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SCALE: 1" = 50'

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CRAWFORD TNSP - CURRITUCK COUNTY - NORTH CAROLINA

GRADING AND DRAINAGE PLAN

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CRAWFORD TNSP - CURRITUCK COUNTY - NORTH CAROLINA

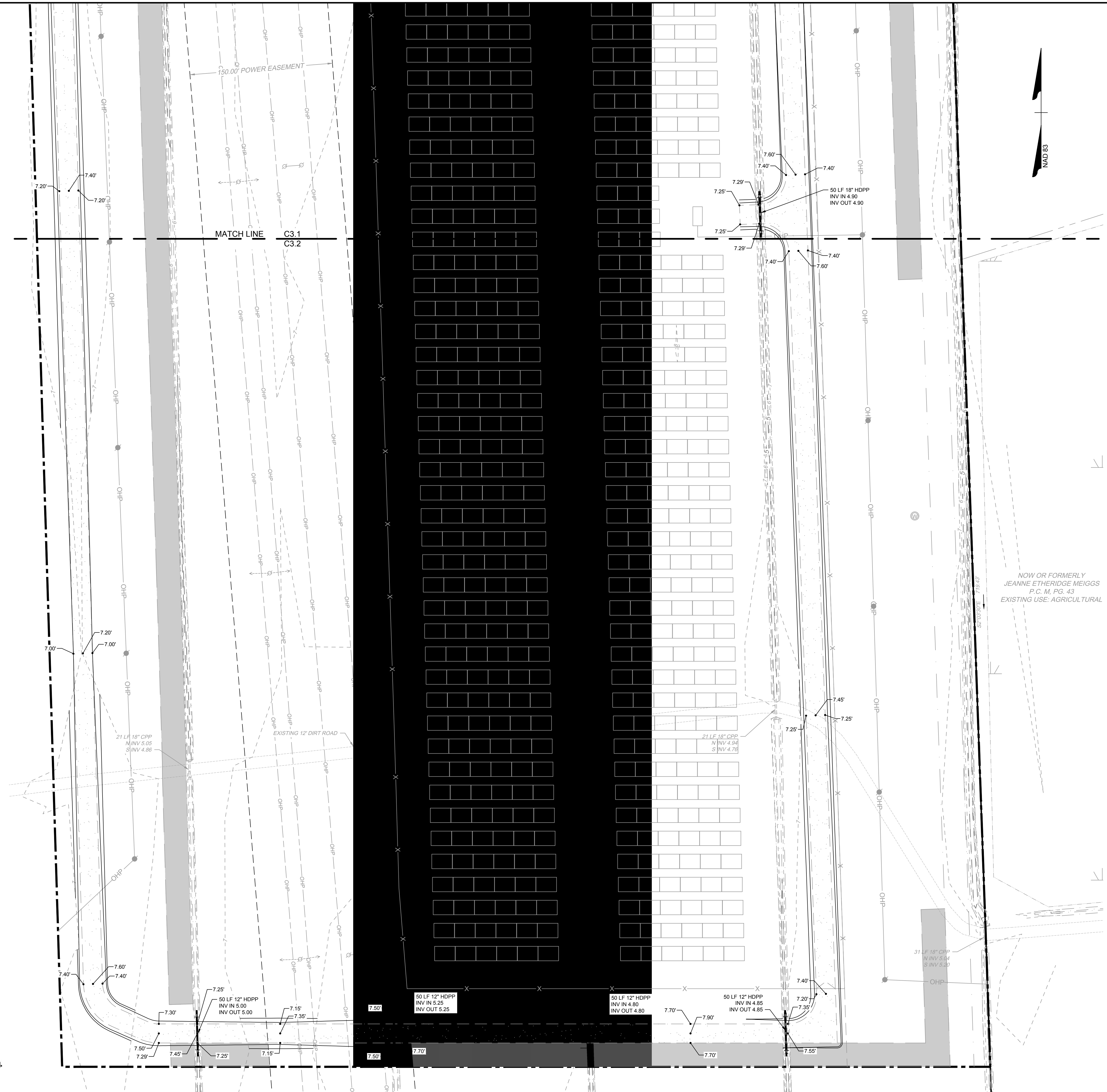
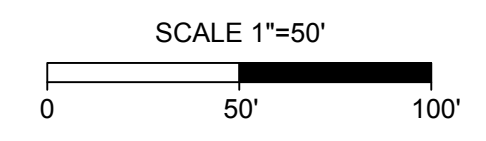
GRADING AND DRAINAGE PLAN

JOB NO.
47198

SHEET NO.
C3.2

- SITE DATA:**
- OWNER:**
 EAST RIDGE LAND HOLDINGS, LLC
 595 SUMMER ST.
 4TH FLOOR
 STAMFORD, CT 06901
 CONTACT: CECIL MOORE
 KENNY HASJUL, MANAGER
 EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
 PHONE: (252) 825-1731
 - DEVELOPER:**
 SHAWBORO EAST RIDGE SOLAR, LLC
 595 SUMMER ST.
 4TH FLOOR
 STAMFORD, CT 06901
 CONTACT: CECIL MOORE
 KENNY HASJUL, MANAGER
 EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
 PHONE: (252) 825-1731
 - SITE INFORMATION:**
 PARCEL ID NO. 003400024P0000
 TOTAL TRACT ACREAGE: 199.88 AC
 PHASE 1A SITE AREA: 56.15 AC
 D.B. 1791, PG. 767
 ZONING: AG (AGRICULTURAL)
 EXISTING USE: VACANT/AGRICULTURAL
 PROPOSED USE: SOLAR ENERGY FARM
 - MINIMUM BUILDING SETBACKS:**
 FRONT: 150'
 SIDE: 150'
 CORNER SIDE: 150'
 REAR: 150'
 - THE PROPERTY IS LOCATED IN FLOOD ZONE "X", AS SHOWN ON FLOOD MAP PANEL 372084600L, DATED DECEMBER 21, 2018 AND SUBJECT TO CHANGE BY FEMA.**
 - BOUNDARY AND TOPOGRAPHIC SURVEY DATA PROVIDED BY ROANOKE LAND SURVEYING, PA, RANDOLPH P. NICHOLSON, PLS.**
 - ON-SITE COVERAGE CALCULATIONS:**
 PROPOSED IMPERVIOUS COVERAGE:
 GRAVEL: 268,737 SF (10.99%)
 - CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP EROSION CONTROL DEVICES IN GOOD WORKING ORDER MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.**
 - ANY FILL BROUGHT ON SITE SHALL BE FROM AN APPROVED SITE/MINE. ANY MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED ON IN AN APPROVED LOCATION.**
 - DISTURBED AREA WILL NOT EXCEED 10% OF TOTAL SITE AREA.**

	BENCHMARK
	EXISTING IRON REBAR (EIR)
	CALCULATED POINT
	EX FIRE HYDRANT
	EX WATER VALVE
	EX TELEPHONE PEDESTAL
	EX LIGHT POLE
	EX POWER POLE
	EX GUY ANCHOR
	EX POWER METER
	EX POWER BOX
	EX SIGN
	EX BOLLARD
	EX TREE
	PROP MONITORING WELL
	PHASE LIMITS LINE
	PROPERTY BOUNDARY
	RIGHT OF WAY
	ADJACENT PROPERTY BOUNDARY
	BUILDING SETBACK LINE
	EASEMENT
	EX EDGE OF PAVEMENT
	EX ROAD CENTERLINE
	EX OVERHEAD POWER
	EX NATURAL GAS LINE
	EX WATER LINE
	EX DITCH BOTTOM
	EX TOP OF BANK
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	EX STORM PIPE
	EX EDGE OF TREE LINE
	EX WETLANDS
	PROP GRAVEL
	PROP LANDSCAPE BUFFER
	PROP FENCE
	PROP MAJOR CONTOUR
	PROP MINOR CONTOUR
	PROP STORM PIPE
	PROP OVERHEAD POWER
	PROP SWALE



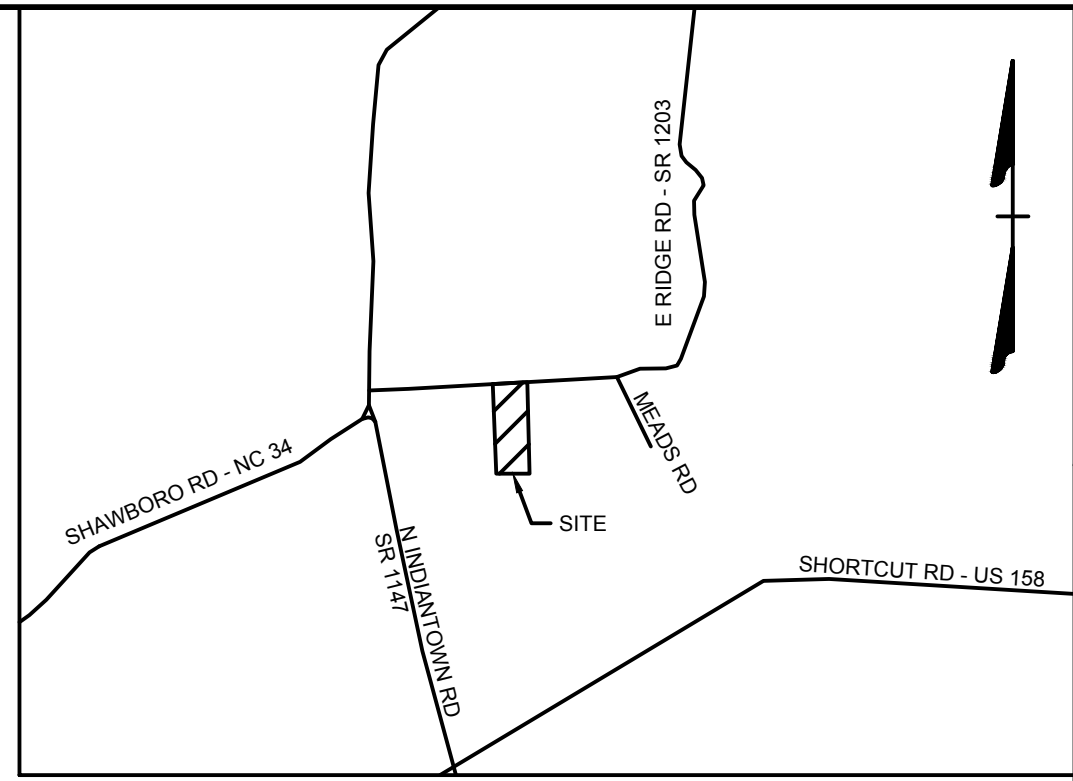
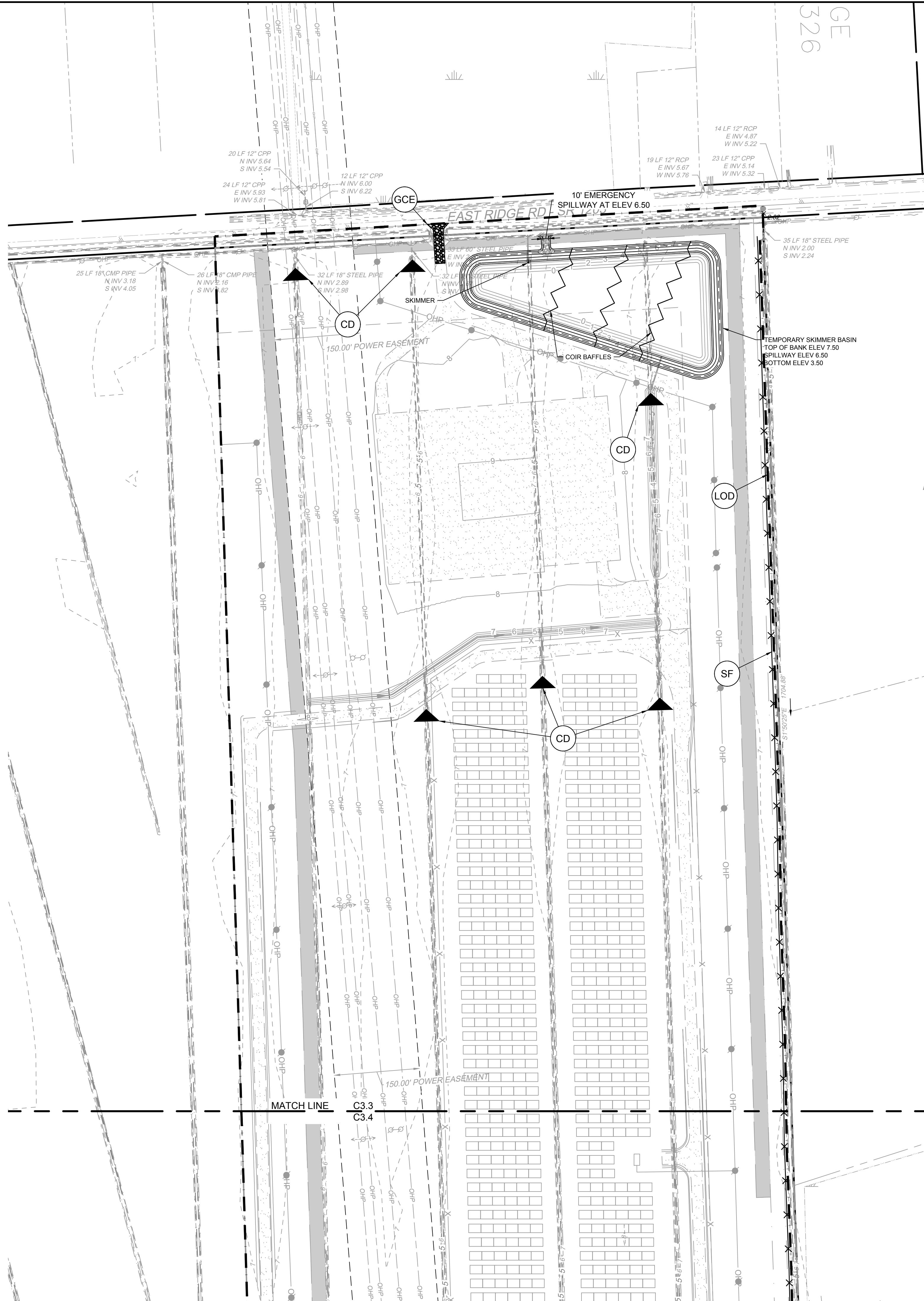
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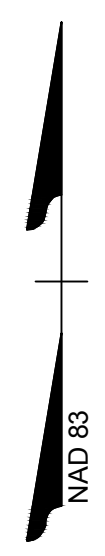
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- BOUNDARY AND TOPOGRAPHIC SURVEY DATA PROVIDED BY ROANOKE LAND SURVEYING, PA, RANDOLPH P. NICHOLSON, PLS.
- ON-SITE COVERAGE CALCULATIONS:
PROPOSED IMPERVIOUS COVERAGE:
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- ANY FILL BROUGHT ON SITE SHALL BE FROM AN APPROVED SITEMINE. ANY MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED ON AN APPROVED LOCATION.
- DISTURBED AREA WILL NOT EXCEED 56.13 ACRES.

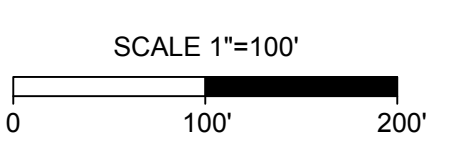


VICINITY MAP
NO SCALE



LEGEND

- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
- SILT FENCE
- LIMIT OF DISTURBANCE
- CHECK DAM
- COIR BAFFLES



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JAN 31, 2025
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REVISION DESCRIPTION	DATE

DATE
01/24/25

DRAWN BY
SCL

DESIGNED BY
KDH

CHECKED BY
KDH

SCALE
1" = 100'

NORTH CAROLINA LICENSE NO. C-1652

SHAWBORO EAST RIDGE SOLAR PHASE - 1A

CRAWFORD TNSP - CURRITUCK COUNTY - NORTH CAROLINA

EROSION AND SEDIMENT CONTROL PLAN

JOB NO.	47198
SHEET NO.	C3.3

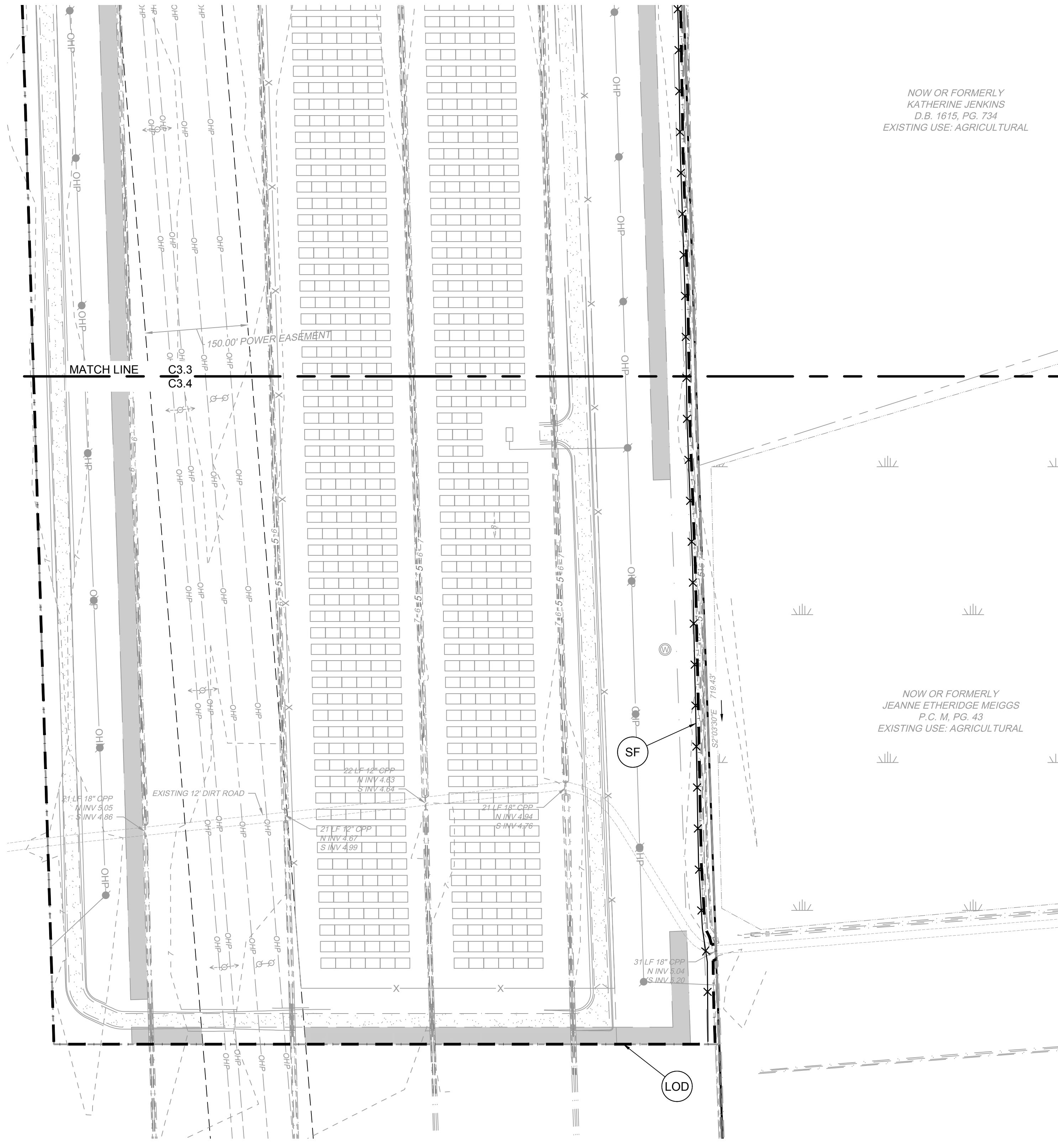
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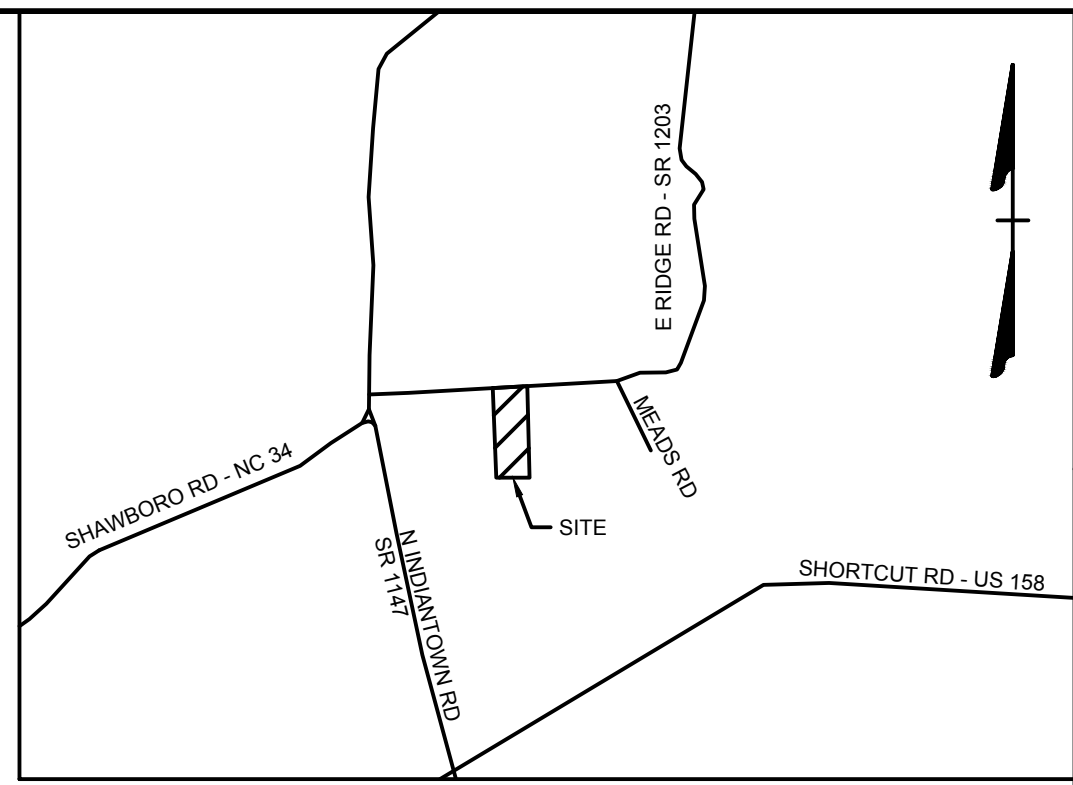
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EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
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- DEVELOPER:
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EMAIL: PROJECT.DEVELOPMENT@SUNENERGY1.COM
PHONE: (252) 825-1731
- SITE INFORMATION:
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PHASE 1A SITE AREA: 56.15 AC
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NOW OR FORMERLY
KATHERINE JENKINS
D.B. 1615, PG. 734
EXISTING USE: AGRICULTURAL

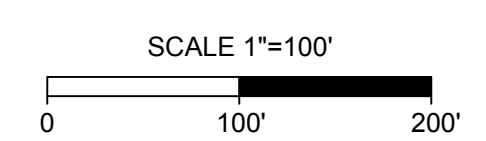
NOW OR FORMERLY
JEANNE ETHERIDGE MEIGGS
P.C. M, PG. 43
EXISTING USE: AGRICULTURAL



VICINITY MAP
NO SCALE

LEGEND

- GCE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
- SF SILT FENCE
- LOD LIMIT OF DISTURBANCE
- CD CHECK DAM
- COIR BAFFLES



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REVISION DESCRIPTION	DATE

DATE
01/24/25

DRAWN BY
SCL

DESIGNED BY
KDH

CHECKED BY
KDH

SCALE
1" = 100'

NORTH CAROLINA LICENSE NO. C-1652

SHAWBORO EAST RIDGE SOLAR PHASE - 1A
CRAWFORD TNSP - CURRITUCK COUNTY - NORTH CAROLINA

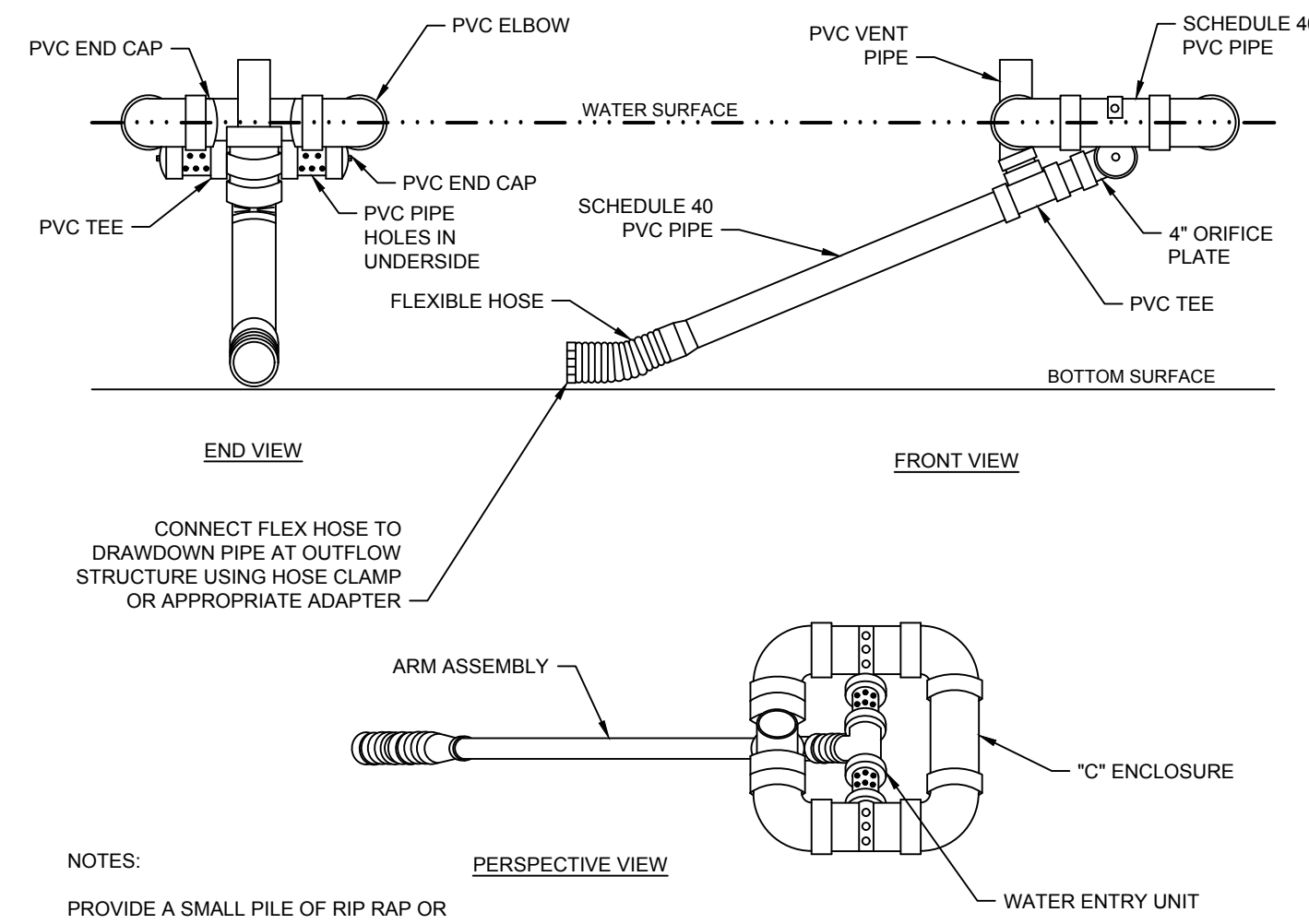
EROSION AND SEDIMENT CONTROL PLAN

JOB NO.	47198
SHEET NO.	C3.4

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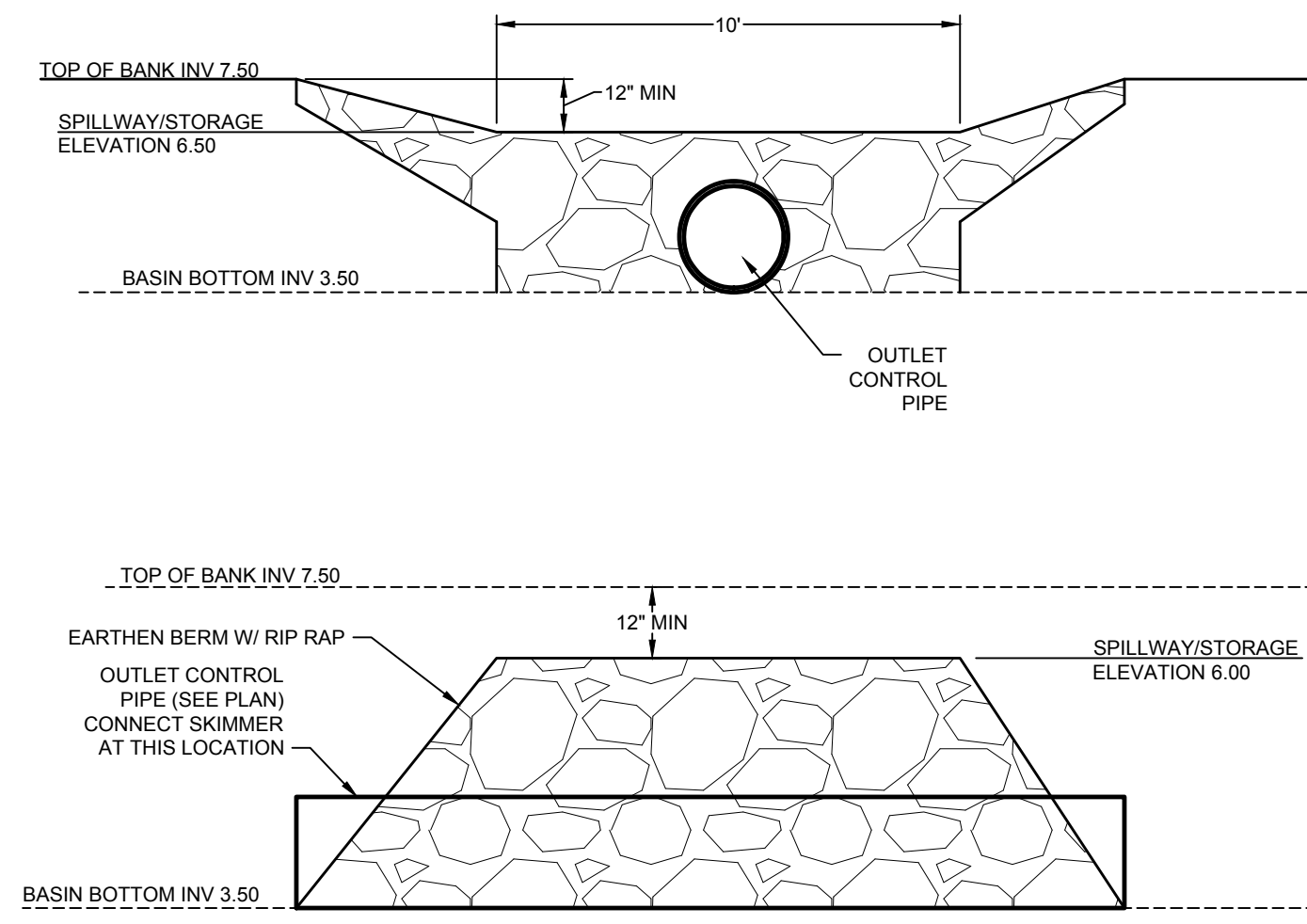


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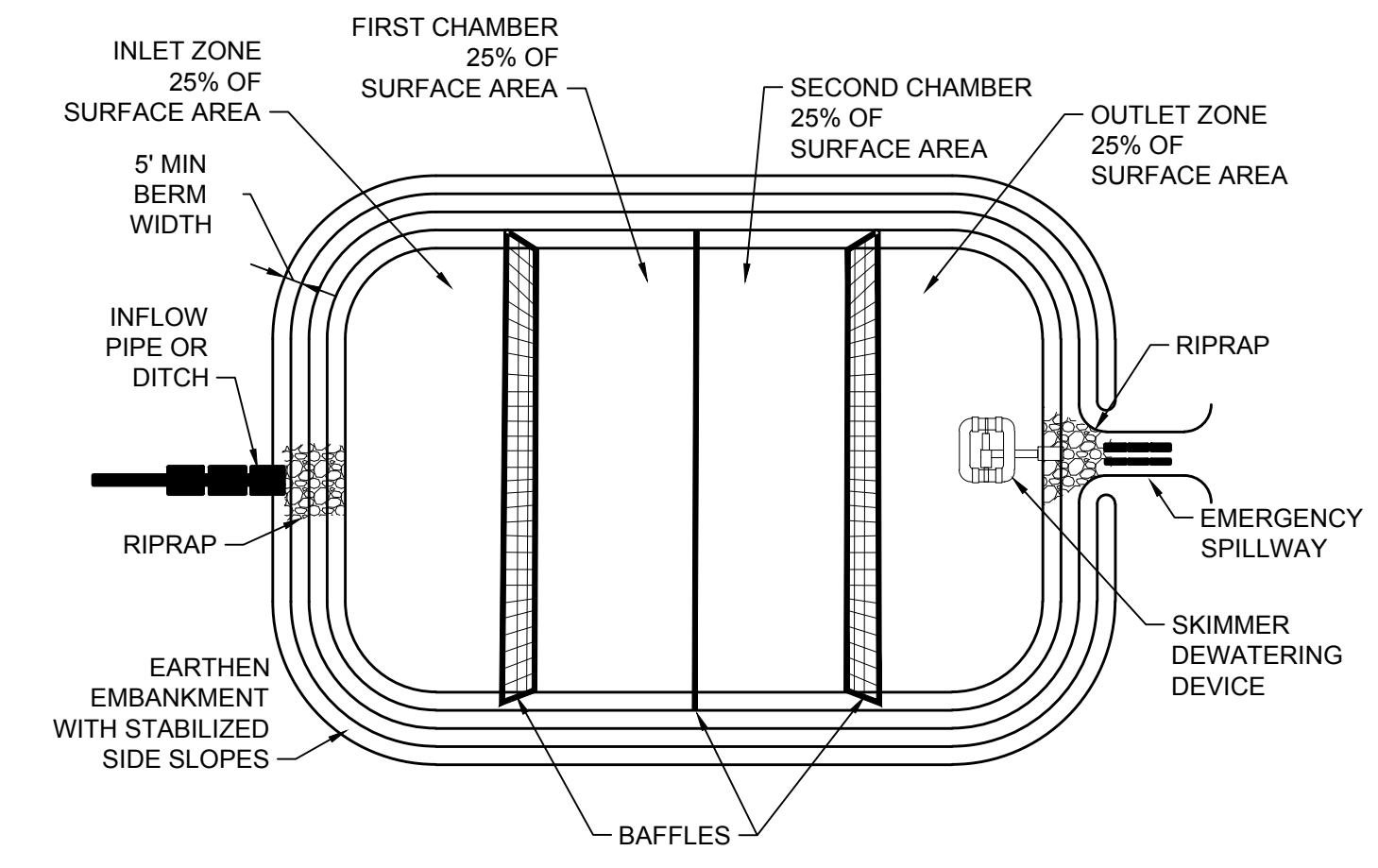


NOTES:
 PROVIDE A SMALL PILE OF RIP RAP OR CONCRETE MASONRY BLOCK DIRECTLY BELOW SKIMMER TO PREVENT SKIMMER FROM RESTING ON SOIL.
 ALL SCHEDULE 40 PVC PIPE & FITTINGS SHALL BE 6\"/>

SKIMMER
NO SCALE



SEDIMENT BASIN EMERGENCY SPILLWAY
NO SCALE



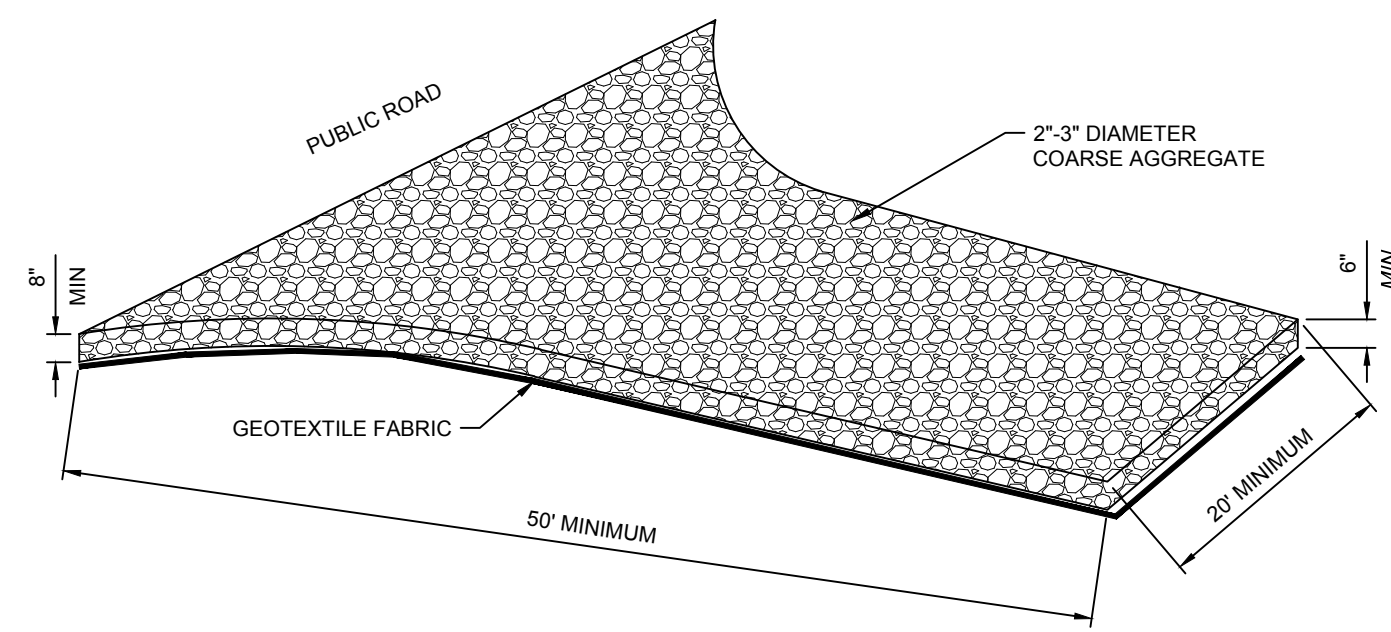
SEDIMENT BASIN DETAIL
NO SCALE

CONSTRUCTION SPECIFICATIONS:

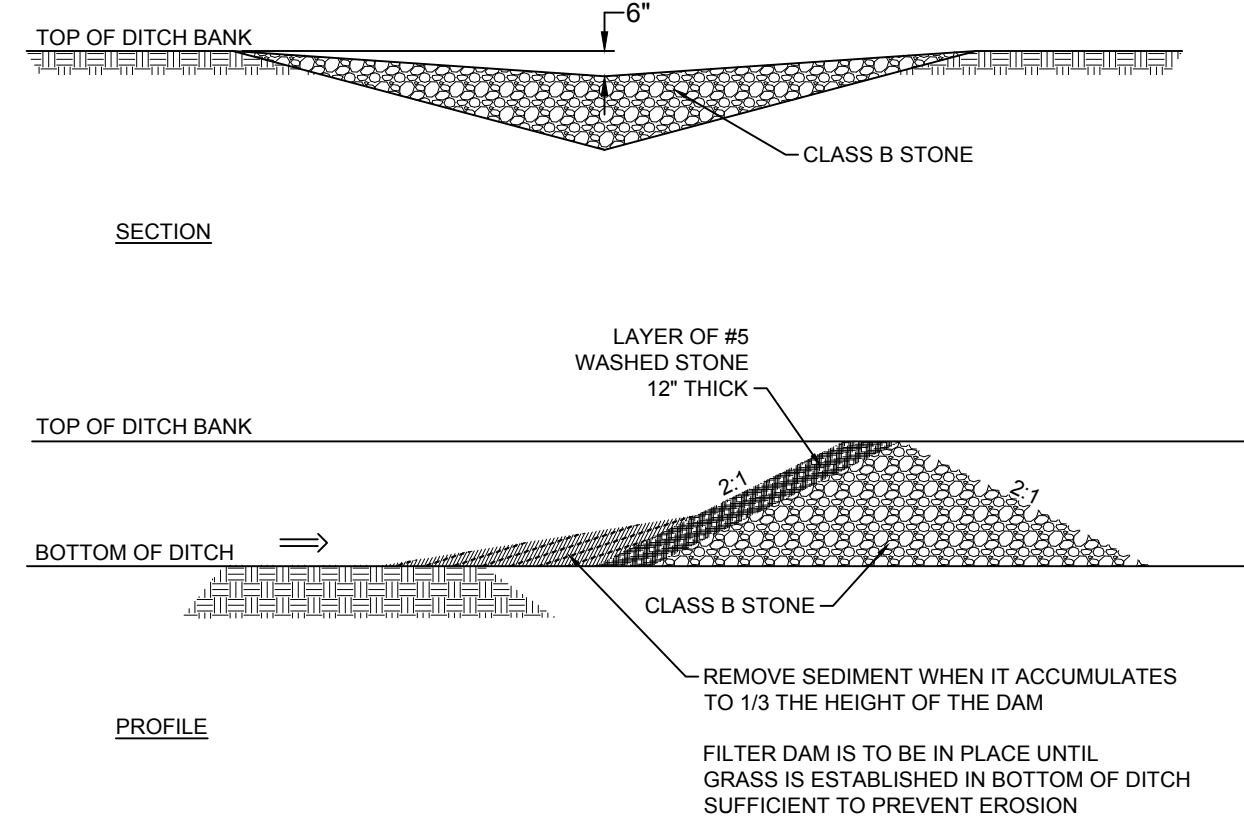
- CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL, AND PROPERLY GRADE IT.
- PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLAN.
- PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
- USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH TWO-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
NO SCALE



CHECK DAM
NO SCALE

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED ON ALL AREAS OF THE SITE WHICH ALL DISTURBED OR GRADED.

PROVIDE A GROUNDCOVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY FOR SLOPES 3:1 OR FLATTER AND LESS THAN 50' IN LENGTH, FOR SLOPES 4:1 OR FLATTER OF ANY LENGTH (EXCEPT FOR PERIMETERS AND HQW ZONES), AND SLOPES NO STEEPER THAN 2:1 AND LESS THAN 10' IN LENGTH.

PROVIDE GROUNDCOVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOR SLOPES STEEPER THAN 3:1 OR SLOPES 3:1 OR FLATTER GREATER THAN 50' IN LENGTH, FOR HIGH QUALITY WATER (HWQ) ZONES, AND PERIMETER DIKES, SWALES, DITCHES AND SLOPES.

PROVIDE GROUNDCOVER (TEMPORARY OR PERMANENT) ON ALL EXPOSED SLOPES WITHIN 21 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING, AND, A PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

THE CONTROL MEASURES SHALL BEGIN PRIOR TO ANY LAND DISTURBING ACTIVITY INCLUDING CLEARING, SHALL CONTINUE DURING CONSTRUCTION AND SHALL CONTINUE WITH THE NECESSARY MAINTENANCE UNTIL THE DISTURBED LAND IS STABILIZED. COMPLIANCE WITH LOCAL AND/OR STATE SOIL EROSION AND SEDIMENTATION CONTROL LAWS SHALL BE THE ENTIRE RESPONSIBILITY OF THE CONTRACTOR. THIS PARAGRAPH IS INTENDED TO SERVE ONLY AS A GUIDE TO THE CONTRACTOR FOR COMPLIANCE WITH SUCH LAWS, ORDERS, RULES AND REGULATIONS CONCERNING EROSION AND SEDIMENTATION CONTROL PROTECTION OF EXISTING STRUCTURES AND FACILITIES FROM SEDIMENTATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ITEMS TO BE PROTECTED SHALL INCLUDE, BUT ARE NOT LIMITED TO, CATCH BASINS, NATURAL WATERWAYS, DRAINAGE DITCHES, WALKS, DRIVES, ROADS, LAWNS, AND STREAMS.

EROSION CONTROL MEASURES
NO SCALE

CONSTRUCTION SEQUENCING

- INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE PADS. (SEE DETAIL)
- INSTALL EROSION CONTROL DEVICES AT SITE DISCHARGE POINTS AND ALL SILT FENCE TO PREVENT OFF SITE SEDIMENTATION.
- CONSTRUCT SKIMMER BASIN.
- PERFORM GRADING ACTIVITIES AND INSTALL THE REMAINING SEDIMENT AND EROSION CONTROL PROTECTION.
- INSTALL THE STONE FOR THE ACCESS ROAD AND SUBSTATION PAD AND INSTALL SOLAR EQUIPMENT.
- PROVIDE GROUNDCOVER IN ACCORDANCE WITH DETAIL MARKED 'EROSION CONTROL MEASURES', THIS SHEET.
- MONITOR AND MAINTAIN THE INSTALLED EROSION CONTROL MEASURES AND REPAIR AS NECESSARY.
- ONCE VEGETATION IS ESTABLISHED, REMOVE BAFFLES, DIG SKIMMER BASIN TO THE DESIGN DEPTH FOR THE ATTENUATION POND AND REMOVE SKIMMER.
- REMOVE ANY REMAINING CONTROL DEVICES.

SEEDBED PREPARATION

CONSTRUCTION SPECIFICATIONS

- PREPARE SOIL AS NECESSARY TO ESTABLISH AN ADEQUATE SEEDBED FOR RECEIVING SEED USING TILLAGE AND/OR REMOVAL OF DEBRIS (ROCKS, ROOTS, OBSTRUCTIONS), CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- SOIL SHALL RECEIVE LIME, FERTILIZER AND/OR SUPERPHOSPHATE UNIFORMLY AS NEEDED PER RECOMMENDATIONS FROM NORTH CAROLINA DEPARTMENT OF AGRICULTURE OR OTHER COMMERCIAL LABORATORY.
- SEED ON A FRESHLY PREPARED SEEDBED AND ENSURE SEED IS LIGHTLY COVERED FOLLOWING INSTALLATION.
- MULCH IMMEDIATELY AFTER SEEDING.
- CONTRACTOR SHALL SEED ALL AREAS THAT ARE DISTURBED WITHIN TWO DAYS. INSPECT ALL SEEDED AREAS AND MAKE SURE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. AFTER ALL CONSTRUCTION ACTIVITIES ARE COMPLETE, AN INSPECTION WILL BE COMPLETED TO DETERMINE IF ADDITIONAL SEEDING WILL BE REQUIRED.

*APPLY FERTILIZER, LIME, AND MULCH SHALL BE APPLIED AT RATES RECOMMENDED BY NCDA (OR OTHERS). OTHERWISE, APPLY AS DESCRIBED BELOW.

AGRICULTURAL LIMESTONE - 1-1.5 TONS/ACRE ON COURSE TEXTURED SOILS AND 2-3 TONS/ACRE IN FINE-TEXTURED SOILS.
 SOILS WITH PH OF 6 OR HIGHER NEED NOT BE LIMED.
 FERTILIZER - 700/1000 LBS/ACRE (10-10-10)
 MULCH - 2 TONS/ACRE (SMALL GRAIN STRAW)
 ANCHOR - ASPHALT EMULSION AT 450 GAL/ACRE

PERMANENT SEEDING SCHEDULE FOR COASTAL PLAIN

DATE	TYPE	BROADCAST SEEDING RATES
SEP 1 - MAR 31	COMMON BERMUDA 'SAHARA' (UNHULLED) REBEL II FESCUE	130 LBS/ACRE 175 LBS/ACRE
APR 1 - AUG 31	COMMON BERMUDA 'SAHARA' (HULLED) REBEL II FESCUE	90 LBS/ACRE 175 LBS/ACRE
AUG 15 - APR 30	PERENNIAL RYE (AS A NURSE PLANT)	40 LBS/ACRE IN ADDITION TO OTHER SEED TYPES

TEMPORARY SEEDING SCHEDULE

DATE	TYPE	PLANTING RATES
APR 15 - AUG 15	GERMAN MILLET	40 LBS/ACRE
AUG 15 - APR 15	RYE GRAIN	120 LBS/ACRE

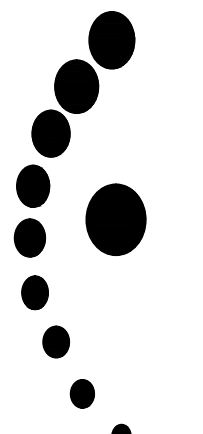
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REVISION DESCRIPTION	DATE

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DRAWN BY	SCL
DESIGNED BY	KDH
CHECKED BY	KDH
SCALE	NO SCALE



TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

SHAWBORO EAST RIDGE SOLAR PHASE - 1A
 CRAWFORD TNSP - CURRITUCK COUNTY - NORTH CAROLINA
EROSION AND SEDIMENT CONTROL DETAILS

JOB NO.	47198
SHEET NO.	C4.1

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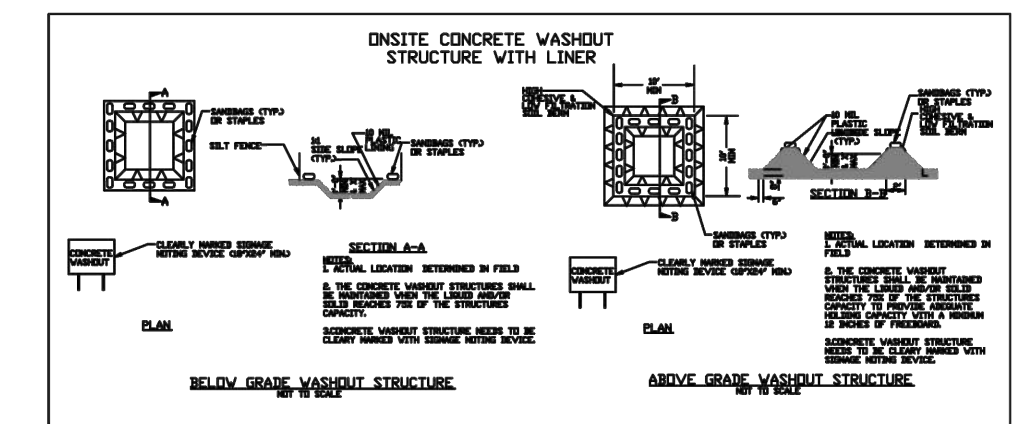
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CRAWFORD TNSP - CURRITUCK COUNTY - NORTH CAROLINA
EROSION AND SEDIMENT CONTROL DETAILS

JOB NO.
47198
SHEET NO.
C4.2



- CONCRETE WASHOUTS**
- Do not discharge concrete or cement slurry from the site.
 - Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
 - Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
 - Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
 - Do not use concrete washouts for dewatering or storing deflected curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
 - Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
 - Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
 - Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
 - Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
 - At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

- HERBICIDES, PESTICIDES AND RODENTICIDES**
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
 - Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
 - Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area as immediately.
 - Do not stockpile these materials onsite.

- HAZARDOUS AND TOXIC WASTE**
- Create designated hazardous waste collection areas on-site.
 - Place hazardous waste containers under cover or in secondary containment.
 - Do not store hazardous chemicals, drums or bagged materials directly on the ground.

- EQUIPMENT AND VEHICLE MAINTENANCE**
- Maintain vehicles and equipment to prevent discharge of fluids.
 - Provide drip pans under any stored equipment.
 - Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
 - Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
 - Remove leaking vehicles and construction equipment from service until the problem has been corrected.
 - Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

- LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**
- Never bury or burn waste. Place litter and debris in approved waste containers.
 - Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
 - Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
 - Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
 - Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
 - Anchor all lightweight items in waste containers during times of high winds.
 - Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
 - Dispose waste off-site at an approved disposal facility.
 - On business days, clean up and dispose of waste in designated waste containers.

- PAINT AND OTHER LIQUID WASTE**
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
 - Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
 - Contain liquid wastes in a controlled area.
 - Containment must be labeled, sized and placed appropriately for the needs of site.
 - Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

- PORTABLE TOILETS**
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
 - Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
 - Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

- EARTHEN STOCKPILE MANAGEMENT**
- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
 - Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
 - Provide stable stone access point when feasible.
 - Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent structures.



NCG01 GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT
Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

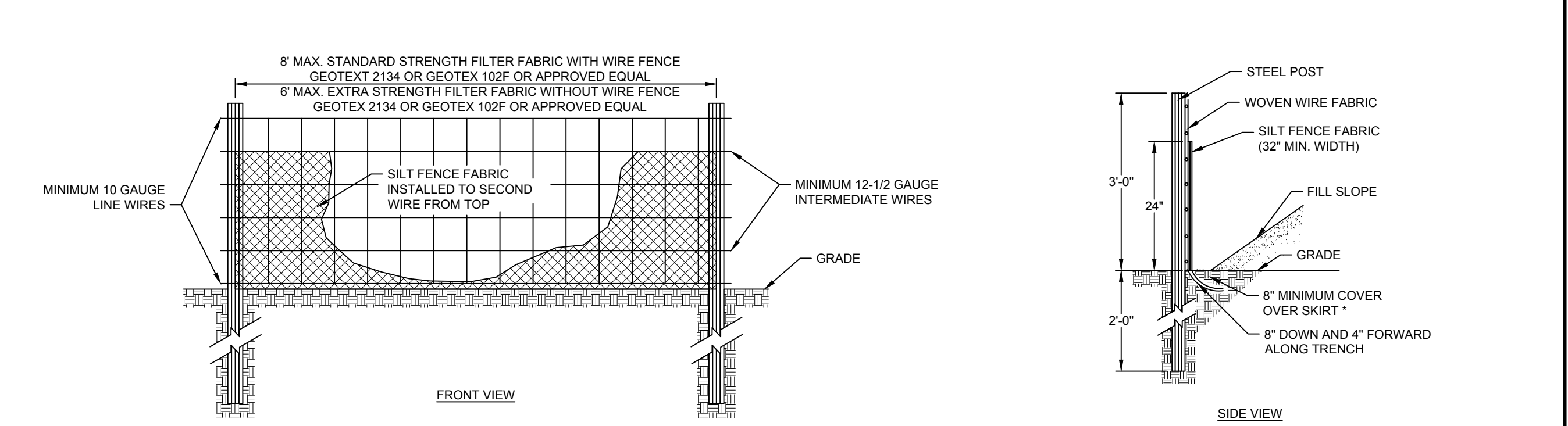
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(d) Slopes 3:1 to 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION
Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

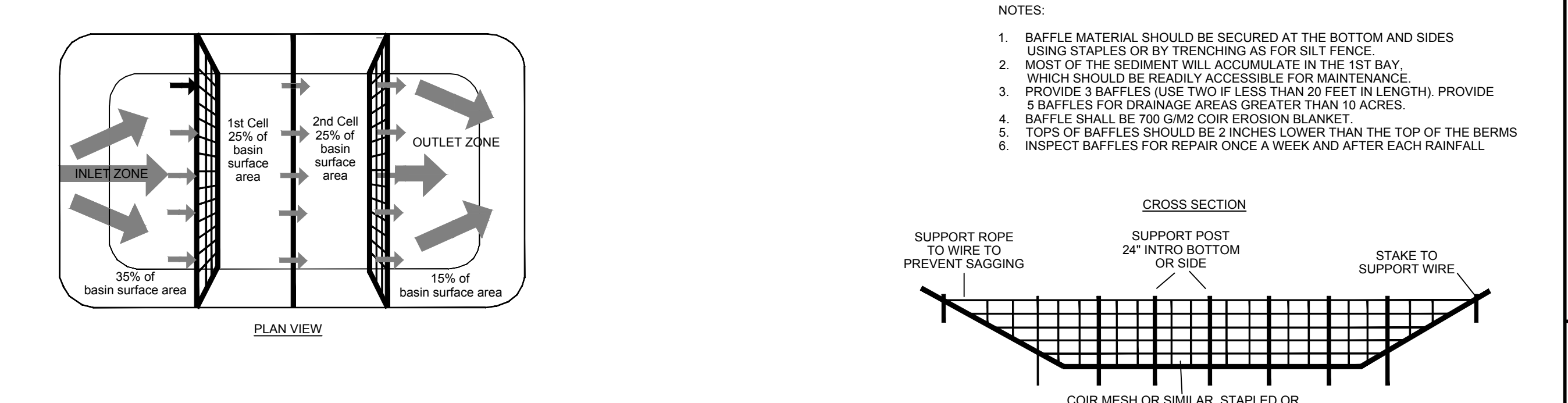
Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roller erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Roller erosion control products with grass seed

- POLYACRYLAMIDES (PAMS) AND FLOCCULANTS**
- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
 - Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
 - Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
 - Provide ponding area for containment of treated Stormwater before discharging offsite.
 - Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.



- CONSTRUCTION SPECIFICATIONS**
- USE SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 8461.
 - SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0-120 DEGREES F.
 - ENSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.33 LBLF STEEL WITH A MINIMUM LENGTH OF 5'. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.
 - FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.
- 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.
 - REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
 - REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE
NO SCALE



- MAINTENANCE**
INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.
- REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

COIR BAFFLES
NO SCALE

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION
Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measure. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the site perimeter. 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future relations.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part II, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or reclamation, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation
The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site
In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years
All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported
Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- Release of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired waters conditions.
(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(c) Anticipated bypasses (40 CFR 122.41(m)(3))	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(d) Unanticipated bypasses (40 CFR 122.41(m)(3))	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(i)(6). Division staff may waive the requirement for a written report on a case-by-case basis.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment (40 CFR 122.41(i)(7))	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(i)(6). Division staff may waive the requirement for a written report on a case-by-case basis.



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

- Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:
- The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items.
 - The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit.
 - Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems.
 - Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above.
 - Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
 - Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

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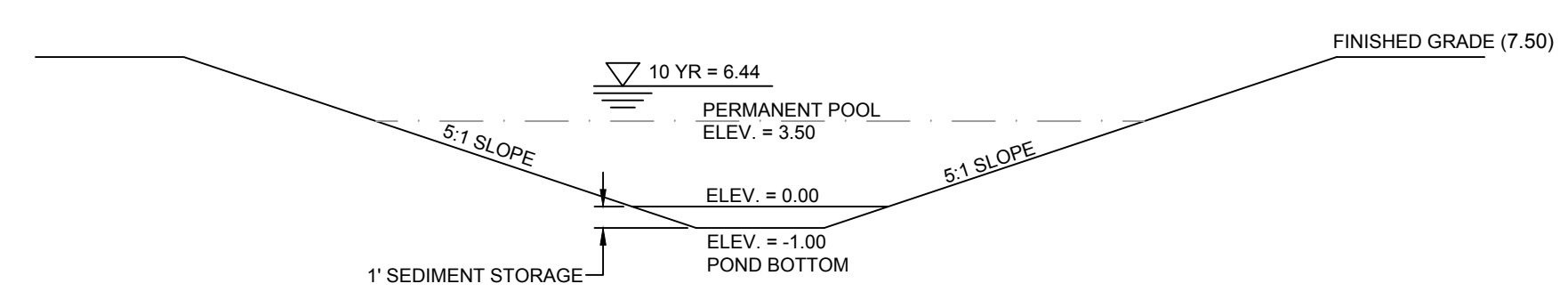
SHAWBORO EAST RIDGE SOLAR PHASE - 1A
 CRAWFORD TNSP - CURRITUCK COUNTY - NORTH CAROLINA

STORMWATER DETAILS

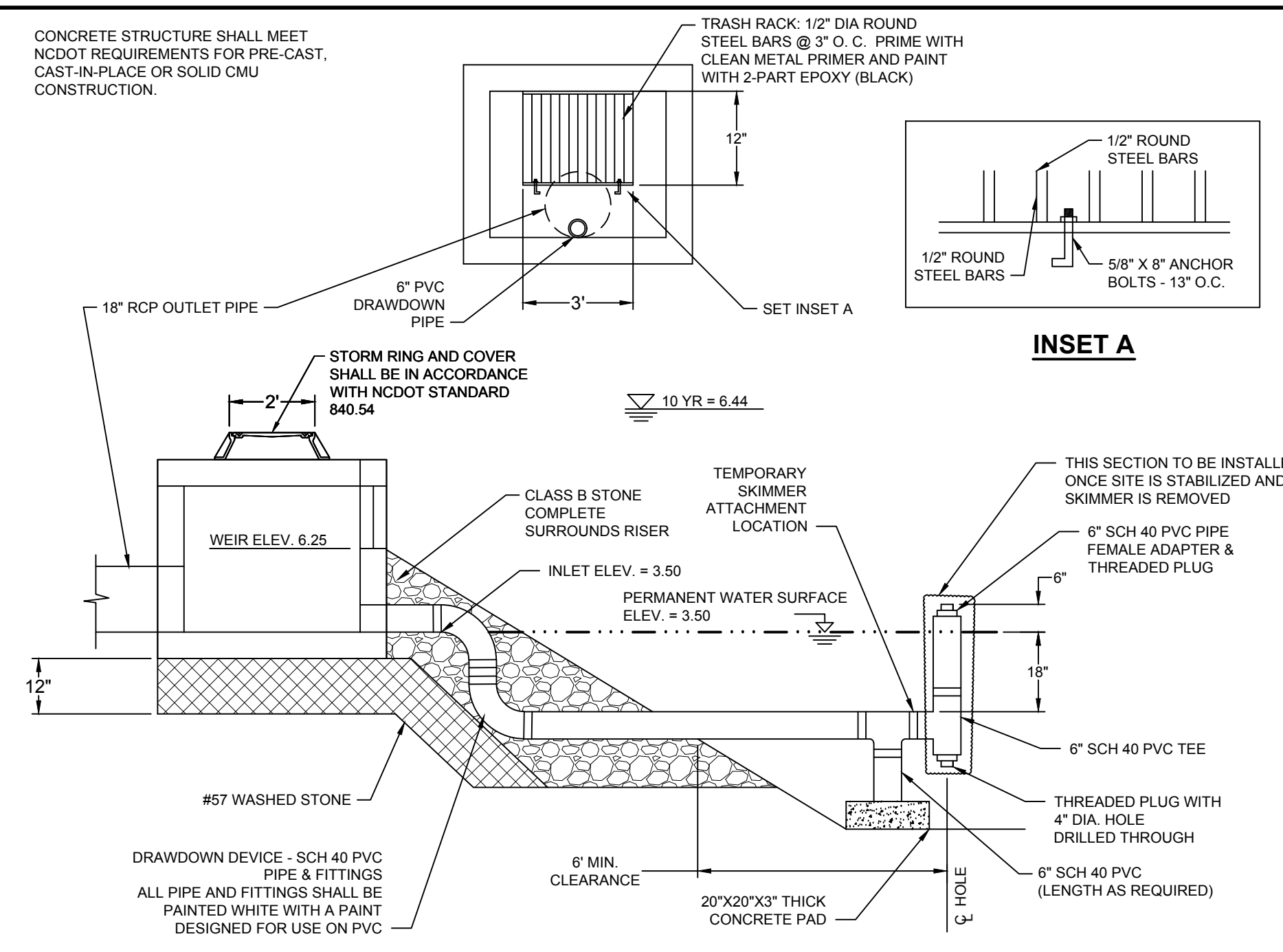
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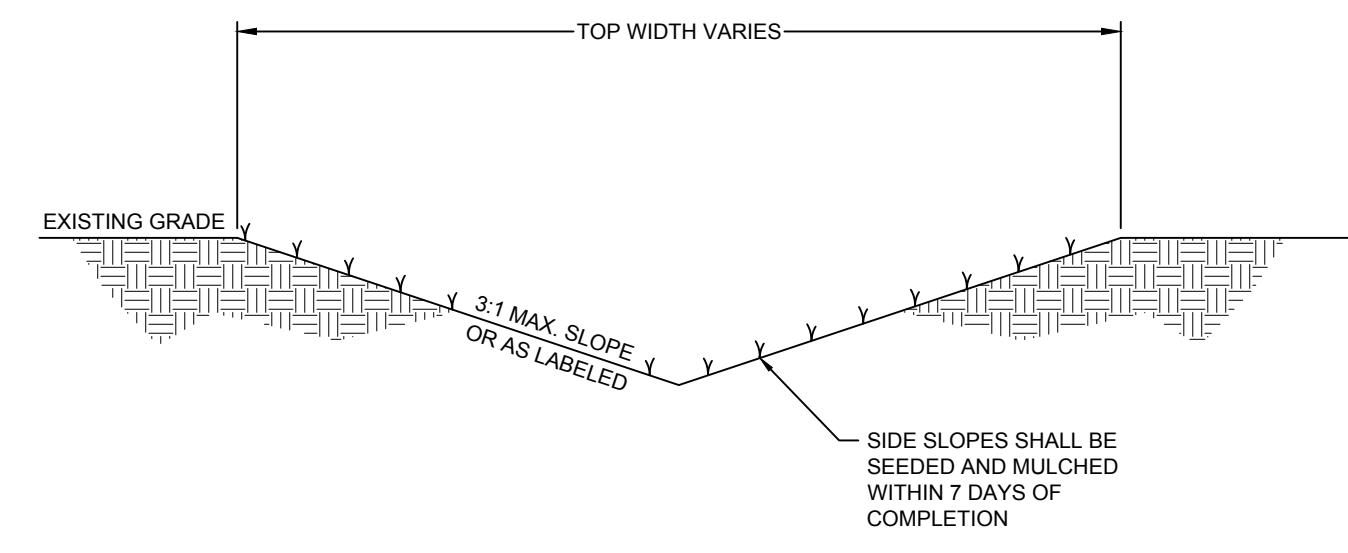
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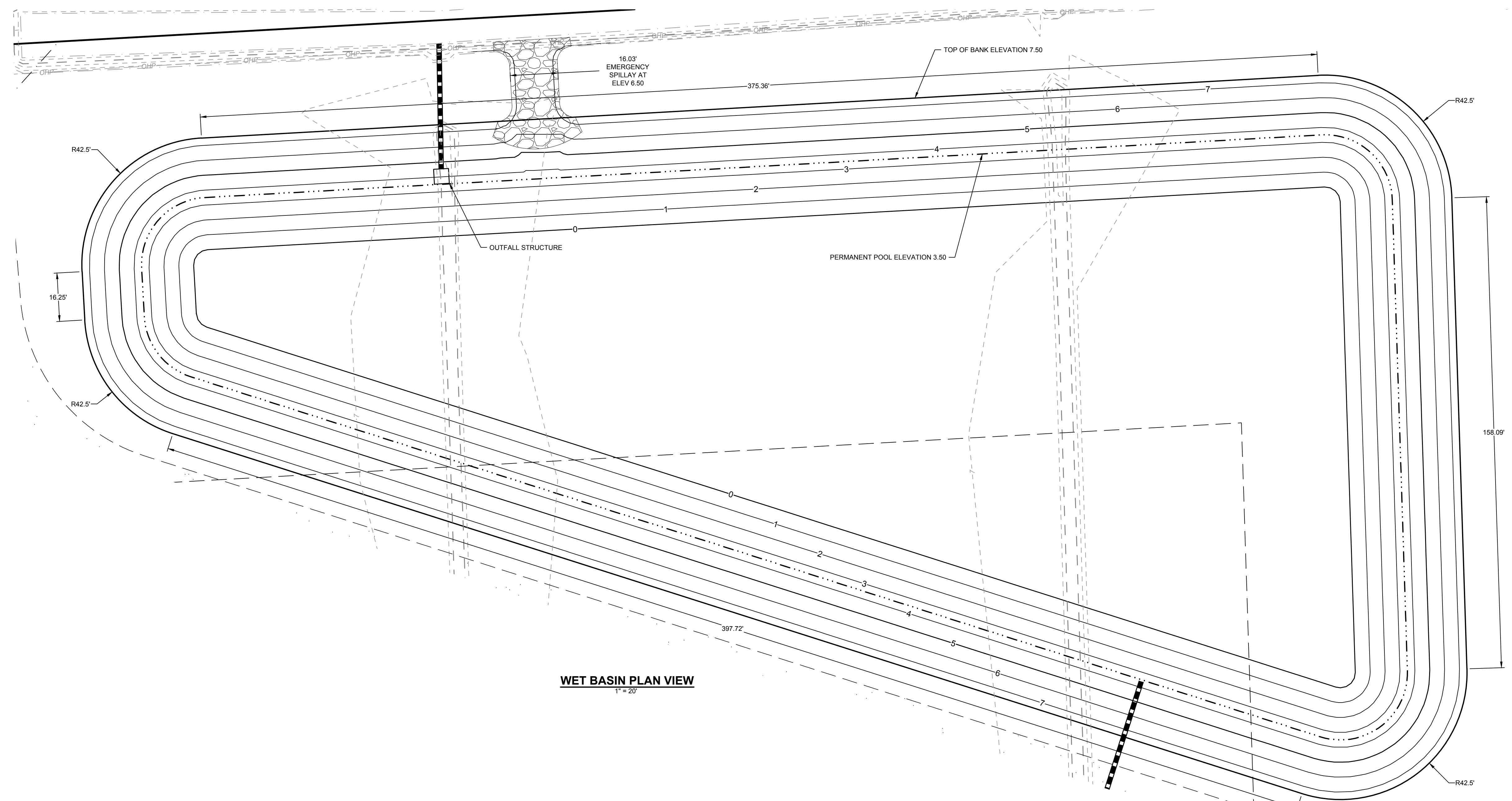
WET BASIN CROSS SECTION
NO SCALE



OUTLET CONTROL
NO SCALE



TYPICAL DITCH/SWALE
NO SCALE



WET BASIN PLAN VIEW
1" = 20'