

LUCK EDGEFIELD - CONCEPTUAL PLAN

LUCK STONE CORPORATION

EDGEFIELD COUNTY, SOUTH CAROLINA

FEBRUARY 15, 2024

SITE DATA

PARCEL ID(S): 058-00-00-039-00

SITE ADDRESS: RD 659D
CLARKS HILL, SOUTH CAROLINA 29821

SITE ACREAGE: 424.8 ACRES

EXISTING ZONING: UN-ZONED

PROPOSED USE: AGGREGATE MINE OPERATIONS

LATITUDE: 33°37'36.0"N (33.6267°)

LONGITUDE: 82°04'34.9"W (-82.0764°)

RIVER BASIN: SAVANNAH

RECEIVING WATERBODY: STEVENS 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: BRUCESMITH@LUCKCOMPANIES.COM

PROJECT REPRESENTATIVE: S&ME INC.

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

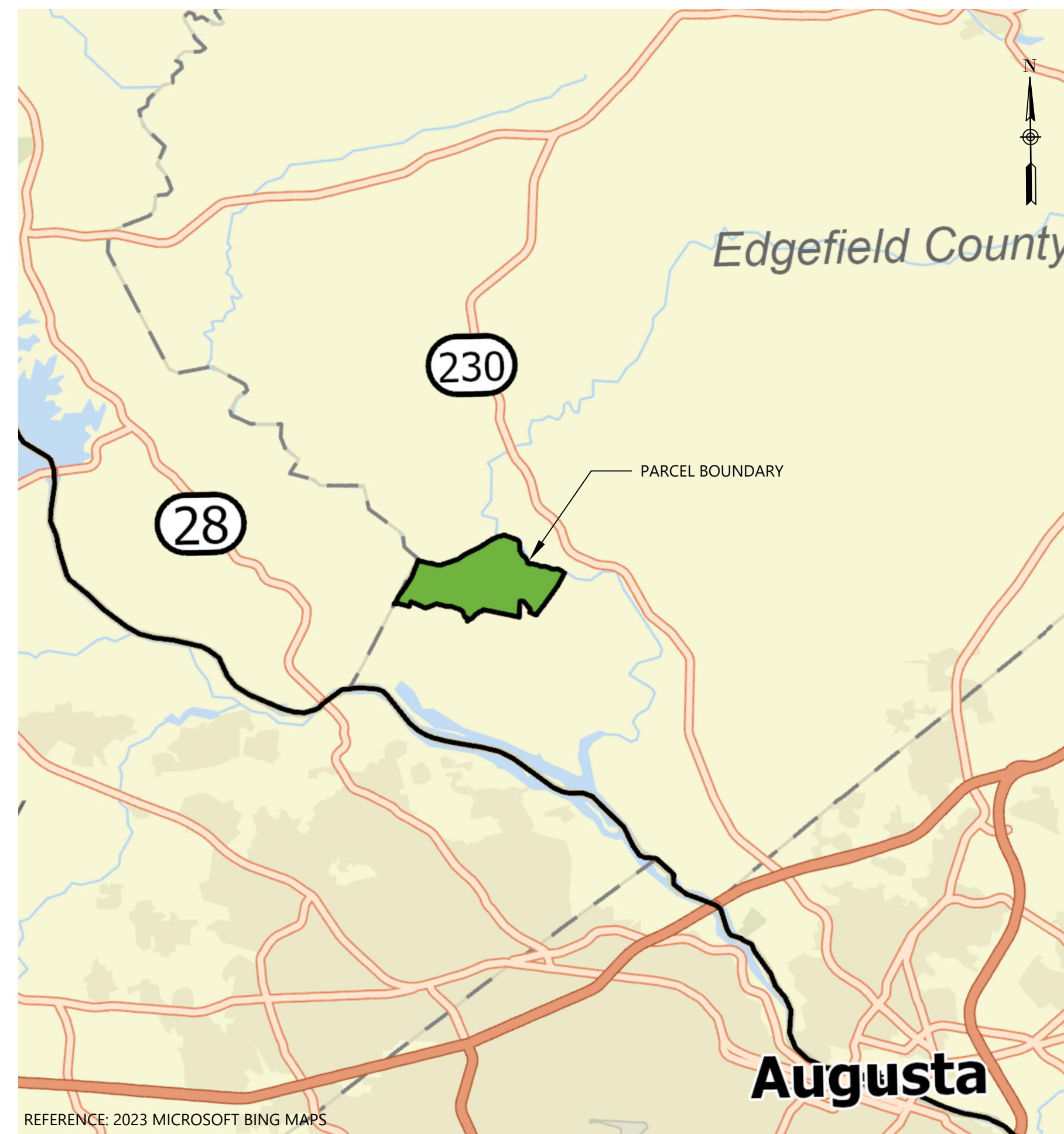
PHONE NO.: (704) 523-4726

CONTACT NAME: CEDRIC H. RUHL, P.E.

CONTACT E-MAIL ADDRESS: CRUHL@SMEINC.COM

DRAWINGS

NUMBER	TITLE
0	COVER
1	EXISTING CONDITIONS PLAN
2	SITE LAYOUT
3	DETAILS (1 OF 6)
4	DETAILS (2 OF 6)
5	DETAILS (3 OF 6)
6	DETAILS (4 OF 6)
7	DETAILS (5 OF 6)
8	DETAILS (6 OF 6)



SITE LOCATION

SCALE: 1" = 10,000'

PREPARED FOR

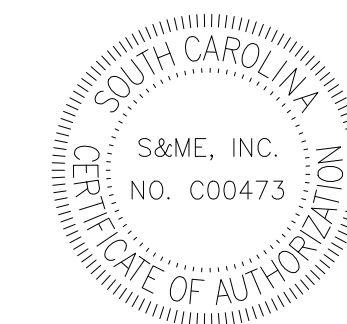


515 STONE MILL DRIVE
RICHMOND, VIRGINIA 23242
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PREPARED BY



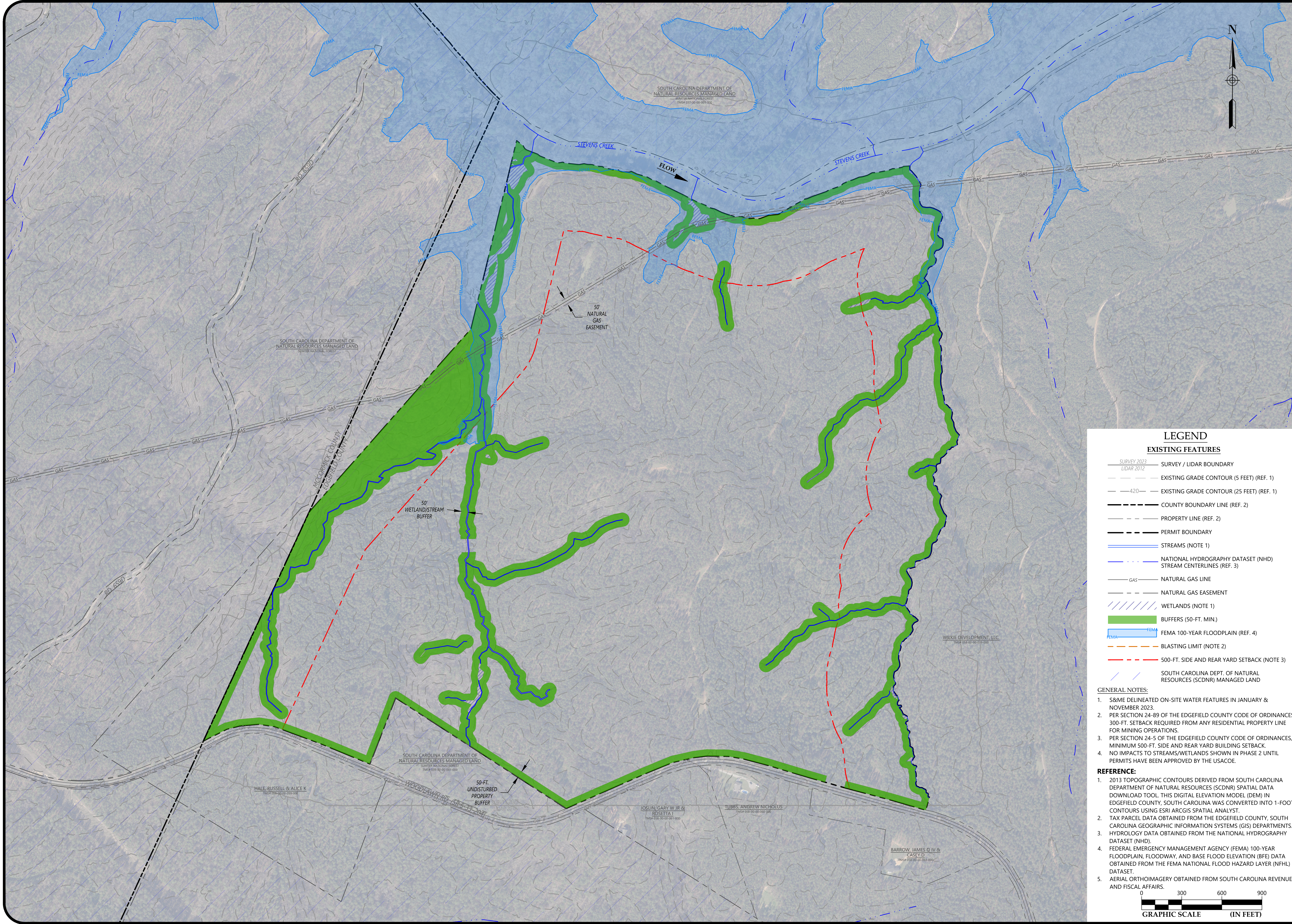
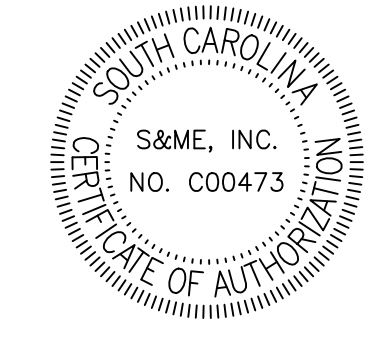
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2016 AYRSLEY TOWN BLVD
SUITE 2-A
CHARLOTTE, NC 28273
(704) 523-4726
ENGINEERING FIRM
LICENSE NUMBER: F-0176



LEGEND

EXISTING FEATURES

- SURVEY / LIDAR BOUNDARY
- EXISTING GRADE CONTOUR (5 FEET) (REF. 1)
- EXISTING GRADE CONTOUR (25 FEET) (REF. 1)
- 420 EXISTING GRADE CONTOUR (25 FEET) (REF. 1)
- COUNTY BOUNDARY LINE (REF. 2)
- PROPERTY LINE (REF. 2)
- PERMIT BOUNDARY
- STREAMS (NOTE 1)
- NATIONAL HYDROGRAPHY DATASET (NHD) STREAM CENTERLINES (REF. 3)
- NATURAL GAS LINE
- NATURAL GAS EASEMENT
- WETLANDS (NOTE 1)
- BUFFERS (50-FT. MIN.)
- FEMA 100-YEAR FLOODPLAIN (REF. 4)
- BLASTING LIMIT (NOTE 2)
- 500-FT. SIDE AND REAR YARD SETBACK (NOTE 3)
- SOUTH CAROLINA DEPT. OF NATURAL RESOURCES (SCDNR) MANAGED LAND

GENERAL NOTES:

1. S&ME DELINEATED ON-SITE WATER FEATURES IN JANUARY & NOVEMBER 2023.
2. PER SECTION 24-89 OF THE EDGEFIELD COUNTY CODE OF ORDINANCES, 300-FT. SETBACK REQUIRED FROM ANY RESIDENTIAL PROPERTY LINE FOR MINING OPERATIONS.
3. PER SECTION 24-5 OF THE EDGEFIELD COUNTY CODE OF ORDINANCES, MINIMUM 500-FT. SIDE AND REAR YARD BUILDING SETBACK.
4. NO IMPACTS TO STREAMS/WETLANDS SHOWN IN PHASE 2 UNTIL PERMITS HAVE BEEN APPROVED BY THE USACE.

REFERENCE:

1. 2013 TOPOGRAPHIC CONTOURS DERIVED FROM SOUTH CAROLINA DEPARTMENT OF NATURAL RESOURCES (SCDNR) SPATIAL DATA DOWNLOAD TOOL. THIS DIGITAL ELEVATION MODEL (DEM) IN EDGEFIELD COUNTY, SOUTH CAROLINA WAS CONVERTED INTO 1-FOOT CONTOURS USING ESRI ARCGIS SPATIAL ANALYST.
2. TAX PARCEL DATA OBTAINED FROM THE EDGEFIELD COUNTY, SOUTH CAROLINA GEOGRAPHIC INFORMATION SYSTEMS (GIS) DEPARTMENTS.
3. HYDROLOGY DATA OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET (NHD).
4. FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) 100-YEAR FLOODPLAIN, FLOODWAY, AND BASE FLOOD ELEVATION (BFE) DATA OBTAINED FROM THE FEMA NATIONAL FLOOD HAZARD LAYER (NFHL) DATASET.
5. AERIAL ORTHOIMAGERY OBTAINED FROM SOUTH CAROLINA REVENUE AND FISCAL AFFAIRS.



NO.	DATE	ISSUED FOR CLIENT REVIEW	DESCRIPTION	BY	CHK	C/S
	02/15/2024					

EXISTING CONDITIONS PLAN

LUCK EDGEFIELD - CONCEPTUAL PLAN
LUCK STONE CORPORATION
EDGEFIELD COUNTY, SOUTH CAROLINA

PROJECT NUMBER	22350640
DRAWING NUMBER	

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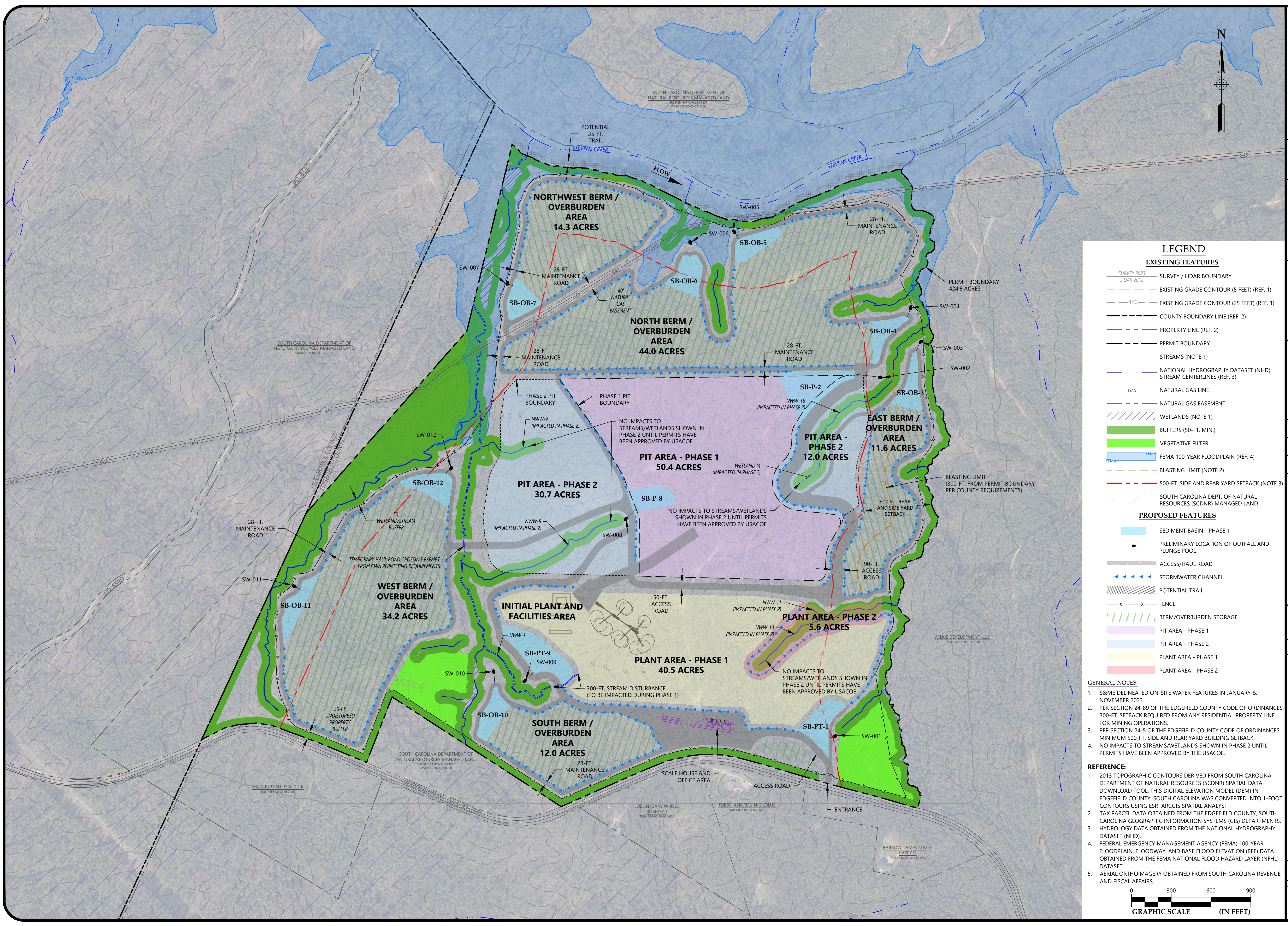
DRAWING PATH: T:\Character-1350\Projects\2023\22350640_Luck Co. Luck Stone Edgefield Mine Site_Wimborne S&E Energy\CADD\DWG\MINING SWPPP\EXISTING CONDITIONS PLAN.dwg



2016 AYRSLEY TOWN BLVD
SUITE 2-A
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ENGINEERING FIRM
LICENSE NUMBER: E-0176



DRAWING PATH: T:\charlotte-1350\Projects\2023\2350640_Luck Co. Luck Stone Edgfield Mine Site_Winnabow S&ME Energy\CADD\DWG\MINING_SWPPP\SITE DEVELOPMENT.dwg



LEGEND

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- NATURAL GAS EASEMENT
- WETLANDS (NOTE 1)
- BUFFERS (50-FT. MIN.)
- VEGETATIVE FILTER
- FEMA 100-YEAR FLOODPLAIN (REF. 4)
- BLASTING LIMIT (NOTE 2)
- 500-FT. SIDE AND REAR YARD SETBACK (NOTE 3)
- SOUTH CAROLINA DEPT. OF NATURAL RESOURCES (SCDNR) MANAGED LAND

PROPOSED FEATURES

- SEDIMENT BASIN - PHASE 1
- PRELIMINARY LOCATION OF OUTFALL AND PLUNGE POOL
- ACCESS/HAUL ROAD
- STORMWATER CHANNEL
- POTENTIAL TRAIL
- FENCE
- BERM/OVERBURDEN STORAGE
- PIT AREA - PHASE 1
- PIT AREA - PHASE 2
- PLANT AREA - PHASE 1
- PLANT AREA - PHASE 2

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	02/15/2024					

SITE LAYOUT

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LUCK STONE CORPORATION
EDGEFIELD COUNTY, SOUTH CAROLINA

PROJECT NUMBER	22350640
DRAWING NUMBER	

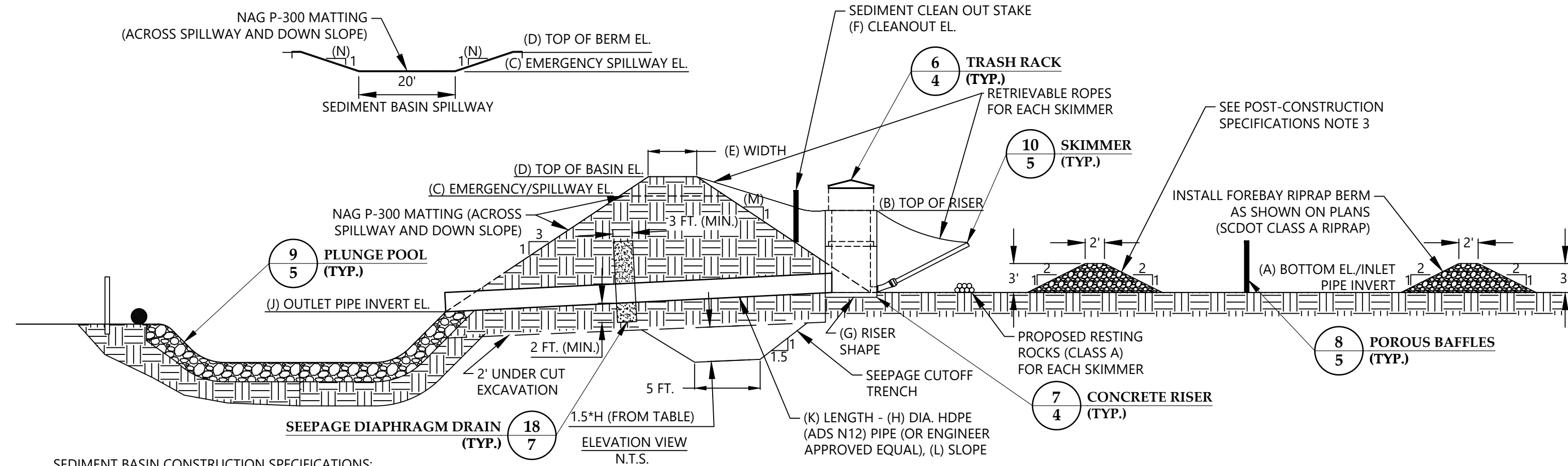
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SEDIMENTATION BASIN CONSTRUCTION SPECIFICATIONS:

- 1. BASIN PREPARATIONS:** PLACE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PER THE PLANS. CLEAR, GRUB AND STRIP TOPSOIL FROM THE EMBANKMENT TO REMOVE VEGETATION, STUMPS, ROOTS, ORGANIC MATERIAL, TRASH, ROCK MATERIAL AND OTHER OBJECTIONABLE MATERIAL. REMOVE SEDIMENT, PERVIOUS MATERIAL, ORGANIC MATERIAL TO THE DESIGN ELEVATION AND DIMENSIONS OF THE BASIN. KEEP BASIN DRY DURING CONSTRUCTION ACTIVITIES. THE FLOOR OF THE BASIN SHALL BE GRADED TO THE FINAL ELEVATION SHOWN ON THE DRAWINGS AND THE GRADED BASIN SHALL BE COMPACTED WITH A MINIMUM 10-TON SMOOTH DRUM (NON-VIBRATORY) COMPACTOR AND THEN PROOF-ROLLED. PROOF-ROLL THE ENTIRE SEDIMENTATION BASIN FLOOR. THE PROOF ROLLING SHALL BE OBSERVED AND EVALUATED BY THE ENGINEER OR HIS REPRESENTATIVE.
- 2. PRINCIPAL SPILLWAY, BARREL AND SKIMMER:** CONSTRUCT THE BARREL ACCORDING TO THE BELOW TEMPORARY SEDIMENT BASIN DETAIL. SECURE ALL CONNECTIONS BETWEEN BARREL AND RISER SECTIONS BY APPROVED WATERTIGHT ASSEMBLIES. ATTACH BASIN SKIMMER TO RISER BY APPROVED WATERTIGHT ASSEMBLIES (SEE SKIMMER DETAIL). DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, SILT, OR CRUSHED STONE AS BACKFILL MATERIAL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-IN. LOOSE LAYERS AND COMPACT IT AROUND THE PIPE TO 95 PERCENT OR GREATER AS THE REST OF THE EMBANKMENT FILL. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF TWO FEET OF HAND COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING THE PIPE WITH COMPACTION EQUIPMENT OR CONSTRUCTION EQUIPMENT.
- 3. EMBANKMENT CONSTRUCTION:** USE CLEAN FILL MATERIAL BROUGHT TO SITE OR EXCAVATED FROM APPROVED AREAS ON SITE. IT SHALL BE CLEAN MINERAL SOIL, FREE OF ROOTS, WOODY VEGETATION, ROCKS AND OTHER OBJECTIONABLE MATERIAL. 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 ABOVE OPTIMUM. FILL SHALL BE COMPACTED NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 METHOD A. THE CONTRACTOR SHALL DEMONSTRATE SOIL DENSITY BY SOIL COMPACTION PER THE PLANS AND SPECIFICATIONS WITH A MINIMUM OF TWO DENSITY TESTS PER LIFT WITH TESTS SPACED EVENLY AND REPRESENTATIVE OF THE EMBANKMENT FILL. ONE FAILED TEST REQUIRES THAT THE LIFT BE RE-COMPACTED AND RE-TESTED AT TWO LOCATIONS UNTIL REQUIRED COMPACTION IS ACHIEVED. NO VEGETATIVE COVER MATERIAL SHALL BE PLACED ON COMPACTED FILL LAYERS BEFORE THE ENGINEER REVIEWS AND APPROVES THE DENSITY DATA FROM THE TESTING PERFORMED. THE ENGINEER MAY EVALUATE COMPACTION AND REPORT THE RESULTS TO THE CONTRACTOR. FAILED SOIL DENSITY TESTS PERFORMED BY THE ENGINEER WILL REQUIRE THAT THE COMPACTED MATERIAL BE REMOVED AND RE-INSTALLED PER THE PLANS AND SPECIFICATIONS.
- 4. OUTLET DISCHARGE:** EFFLUENT FROM THE PRINCIPAL SPILLWAY BARREL FROM THE SEDIMENT BASIN SHALL HAVE AN SEEPAGE DIAPHRAGM DRAIN AND SHALL DISCHARGE TO A PLUNGE POOL (SEE DETAIL).
- 5. EMERGENCY SPILLWAY:** INSTALL THE EMERGENCY SPILLWAY IN THE UNDISTURBED SOIL. TOLERANCE TO DESIGN ELEVATIONS IS +/- 0.2 FEET; TOLERANCE TO DESIGN GRADES IS +/- 1.0 PERCENT; AND TOLERANCE FOR WIDTHS AND LENGTHS IS +/- 1.0 FT. NO DEVIATION FROM THE SPECIFIED TOLERANCES SHALL BE ALLOWED. LINE THE SPILLWAY WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC SHALL HAVE DIMENSIONS LARGE ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES SHALL BE SECURED WITH 8-IN. STAPLES OR PINS. THE FABRIC SHALL BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC SHALL BE ONE PIECE, TO PREVENT WATER FROM ACCESS BENEATH THE FABRIC, JOINING OR SPLICING OF SECTIONS ACROSS THE WIDTH SHALL NOT BE ALLOWED. THE LENGTH OF THE FABRIC MAY BE COMPOSED OF SECTIONS SPANNING THE ENTIRE SPILLWAY WIDTH. UPPER SECTIONS SHALL OVERLAP LOWER SECTIONS SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS (ADAPTED FROM "A MANUAL FOR DESIGNING INSTALLING AND MAINTAINING SKIMMER SEDIMENT BASINS" FEBRUARY, 1999 J.W. FAIRCLOTH & SON). A 6-IN. VEGETATIVE COVER SHALL BE PLACED ON TOP OF THE GEOTEXTILE FABRIC. EROSION CONTROL MATTING SHALL BE PLACED ON TOP OF THE VEGETATIVE LAYER.
- 6. INLETS:** INSTALL INLETS TO DISCHARGE WATER INTO THE FOREBAYS IN A MANNER TO PREVENT EROSION.
- 7. EROSION CONTROL:** CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM THE BARE AREAS. COMPLETE THE EMBANKMENT BEFORE ADDITIONAL UPSTREAM AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION (REFERENCES: SURFACE STABILIZATION).

MAINTENANCE:

- 1. CHECK SEDIMENT BASIN AFTER PERIODS OF SIGNIFICANT RUNOFF.** REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH AS MARKED BY THE SEDIMENT CLEANOUT STAKE.
- 2. CHECK THE EMBANKMENT, SPILLWAYS AND OUTLET FOR EROSION DAMAGE AND EVALUATE THE EMBANKMENT FOR PIPING AND SETTLEMENT.** MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND DEBRIS FROM THE RISER AND POOL AREA.
- 3. ALL SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD.** INSPECTIONS MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE BASIN DEPTH. FIRST PULL THE SKIMMER TO ONE SIDE TO ACCESS SEDIMENT BELOW FOR REMOVAL. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT LIMITED TO THE SKIMMER LOCATION OR WITHIN THE FIRST BASIN CELL. CUT OR REMOVE VEGETATION FROM THE BOTTOM OF THE BASIN THAT LIMITS OPERATION OF THE SKIMMER OR RESTRICTS ITS ABILITY TO FLOAT.
- 4. REPAIR DAMAGED BAFFLES.** RE-ANCHOR BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.
- 5. REMOVE CLOGS FROM SKIMMER BY JERKING ON THE ROPE TO BOB THE SKIMMER, OR PULL THE SKIMMER TO ONE SIDE OF THE BASIN AND REMOVE THE DEBRIS.** CHECK THE ORIFICE INSIDE THE SKIMMER FOR DEBRIS. IF PRESENT, REMOVE THE DEBRIS. IF THE SKIMMER ARM OR BARREL IS CLOGGED, REMOVE THE ORIFICE WITH WATER TO RESTORE FLOW, OR USE A PLUMBERS SNAKE TO REMOVE THE CLOG. REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.
- 6. CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY.** CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER, RISER, AND POOL AREAS.
- 7. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN.** PREVENT ICE FROM CLOGGING THE SKIMMER.



SEDIMENT BASIN CONSTRUCTION SPECIFICATIONS:

- 1. ASSEMBLE THE SKIMMER AS DESIGNED (PER THE SKIMMER DETAIL).**
- 2. LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN.** SECURE THE CONNECTIONS BETWEEN THE INLET BASIN SKIMMER FLEXIBLE JOINT TO THE RISER ORIFICE BY APPROVED WATERTIGHT ASSEMBLIES. POSITION THE SKIMMER OVER THE SUPPORT PAD. ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN FOR ACCESS TO THE SKIMMER FOR FUTURE MAINTENANCE.

POST-CONSTRUCTION SPECIFICATIONS:

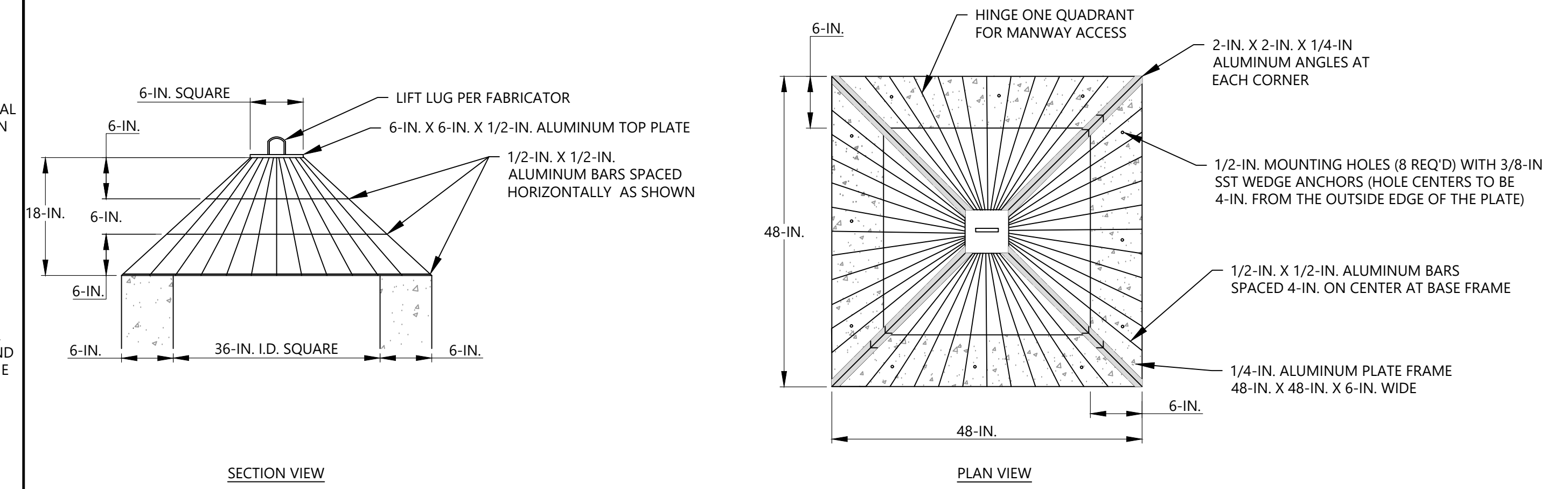
WHEN THE AREAS CONTRIBUTING SEDIMENT TO THE SYSTEM HAVE BEEN STABILIZED, PROCEDURES CAN BE TAKEN TO RESTORE THE SYSTEM TO ITS PERMANENT USE. THE FOLLOWING REMOVAL AND RESTORATION PROCEDURE IS RECOMMENDED. DURING THIS PROCESS CAREFUL CONSIDERATION SHOULD BE TAKEN TO PROTECT RECEIVING WATERS FROM SEDIMENT POLLUTION AND EROSION DAMAGE.

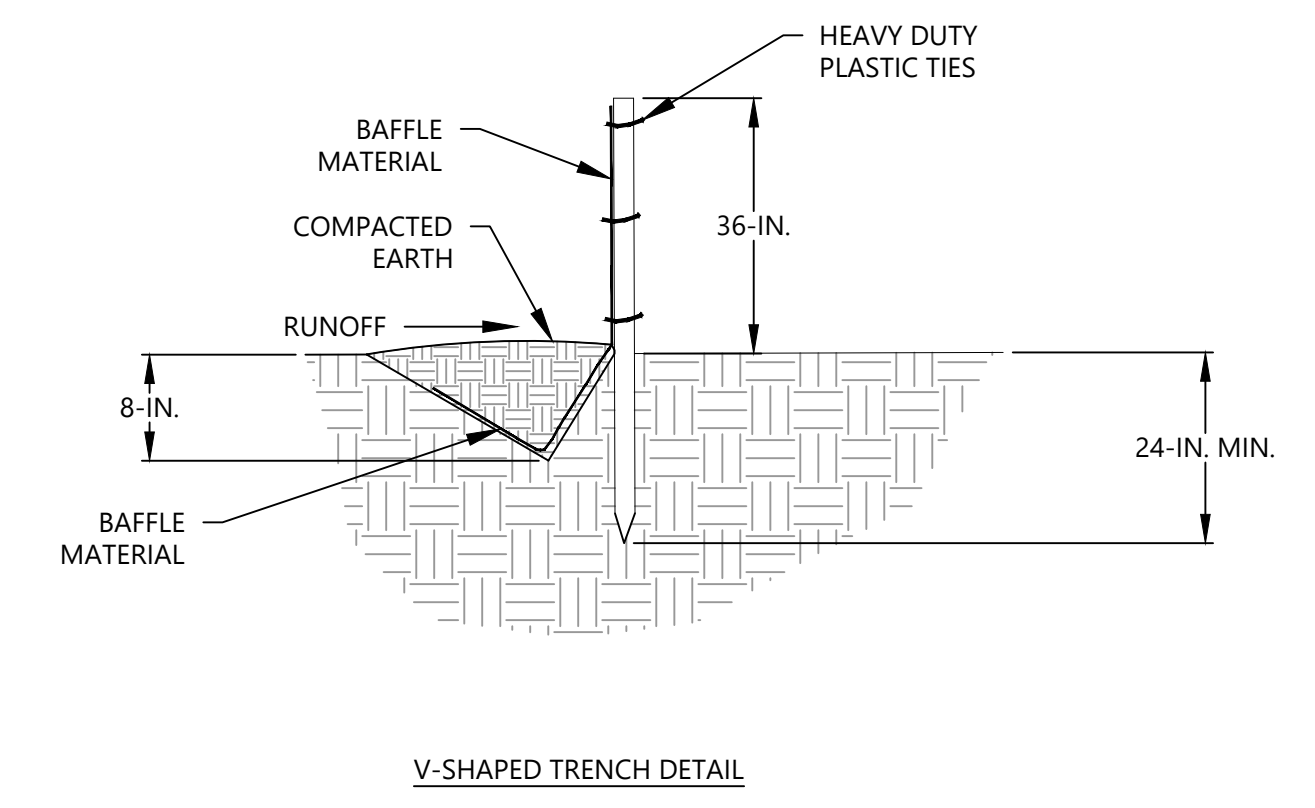
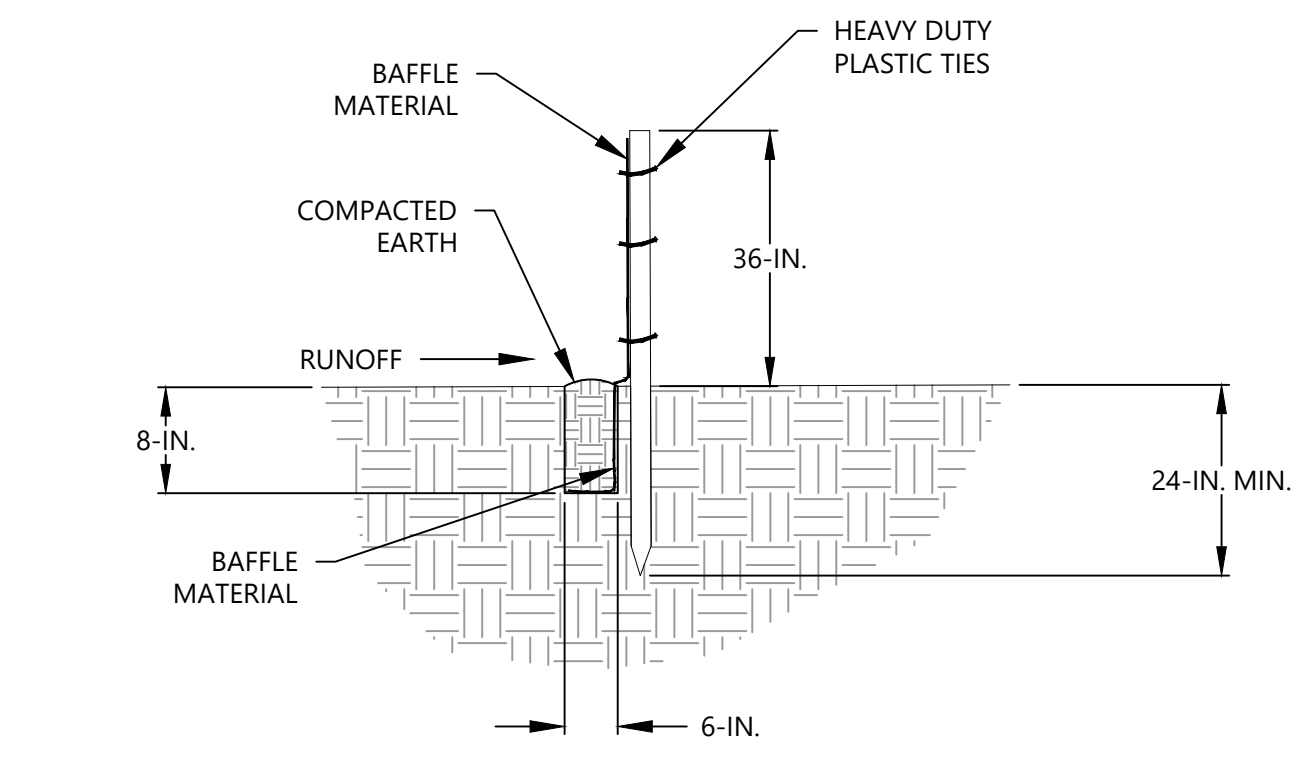
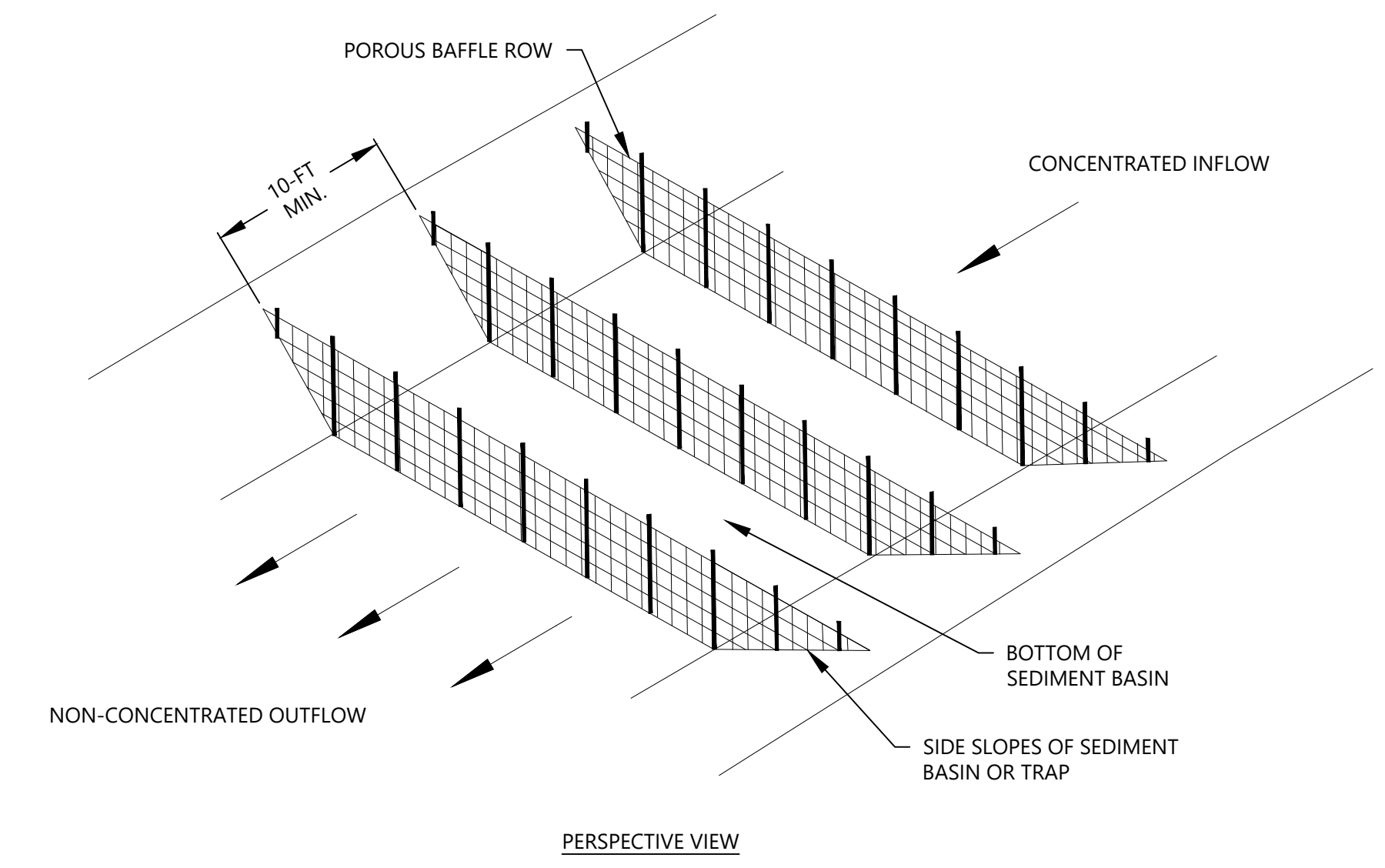
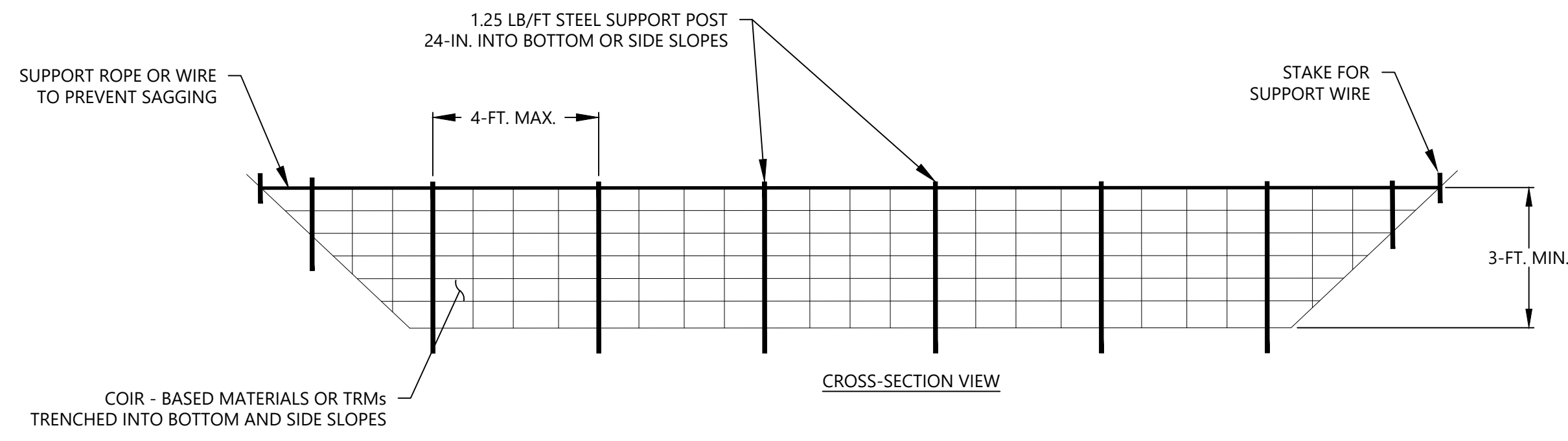
- 1. REMOVE EROSION AND SEDIMENT CONTROL DEVICES (SKIMMER, BAFFLES, 30 MIL LINER, AND STAINLESS STEEL STRAP).**
- 2. EXCAVATE THE BASIN TO THE ORIGINAL PROPOSED BOTTOM OF BASIN ELEVATION PER THE PLANS TO REMOVE ANY ACCUMULATED SEDIMENT.** MAINTAIN THE DESIGNED SIDE SLOPES AND APPLY SLOPE MATTING PER THE DETAIL.
- 3. INSTALL RIPRAP BERM (SCDOT CLASS A RIPRAP), AT MINIMUM 5-FT AWAY FROM RISER.** RIPRAP BERM IS TO BE USED TO HELP PREVENT THE RISER ORIFICE FROM CLOGGING. SEE DETAIL FOR SIZE AND GEOMETRY OF BERM.
- 4. STABILIZE THE BASIN AND ANY AREAS DISTURBED DURING EROSION AND SEDIMENT CONTROL DEVICE AND SEDIMENT REMOVAL.**

SEDIMENT BASIN SUMMARY TABLE														
SEDIMENT BASIN ID	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	BOTTOM OF BASIN ELEVATION (FT.)	TOP OF RISER ELEVATION (FT.)	EMERGENCY SPILLWAY CREST ELEVATION (FT.)	TOP OF BERM ELEVATION (FT.)	TOP OF BERM WIDTH (FT.)	CLEAN OUT ELEVATION (FT.)	RISER SHAPE (FT. X FT.)	OUTLET PIPE DIAMETER (DO) (FT.)	OUTLET PIPE UPSTREAM INV. ELEVATION (FT.)	OUTLET PIPE DOWNSTREAM INV. ELEVATION (FT.)	LENGTH OF OUTLET PIPE (FT.)	SLOPE OF OUTLET PIPE (%)	INTERIOR SIDE SLOPES (Z FT. X 1 FT.)	EMERGENCY SPILLWAY INTERIOR SIDE SLOPES (Z FT. X 1 FT.)

THE SEDIMENT BASIN SUMMARY TABLE WILL BE POPULATED FOLLOWING THE DETAILED DESIGN.

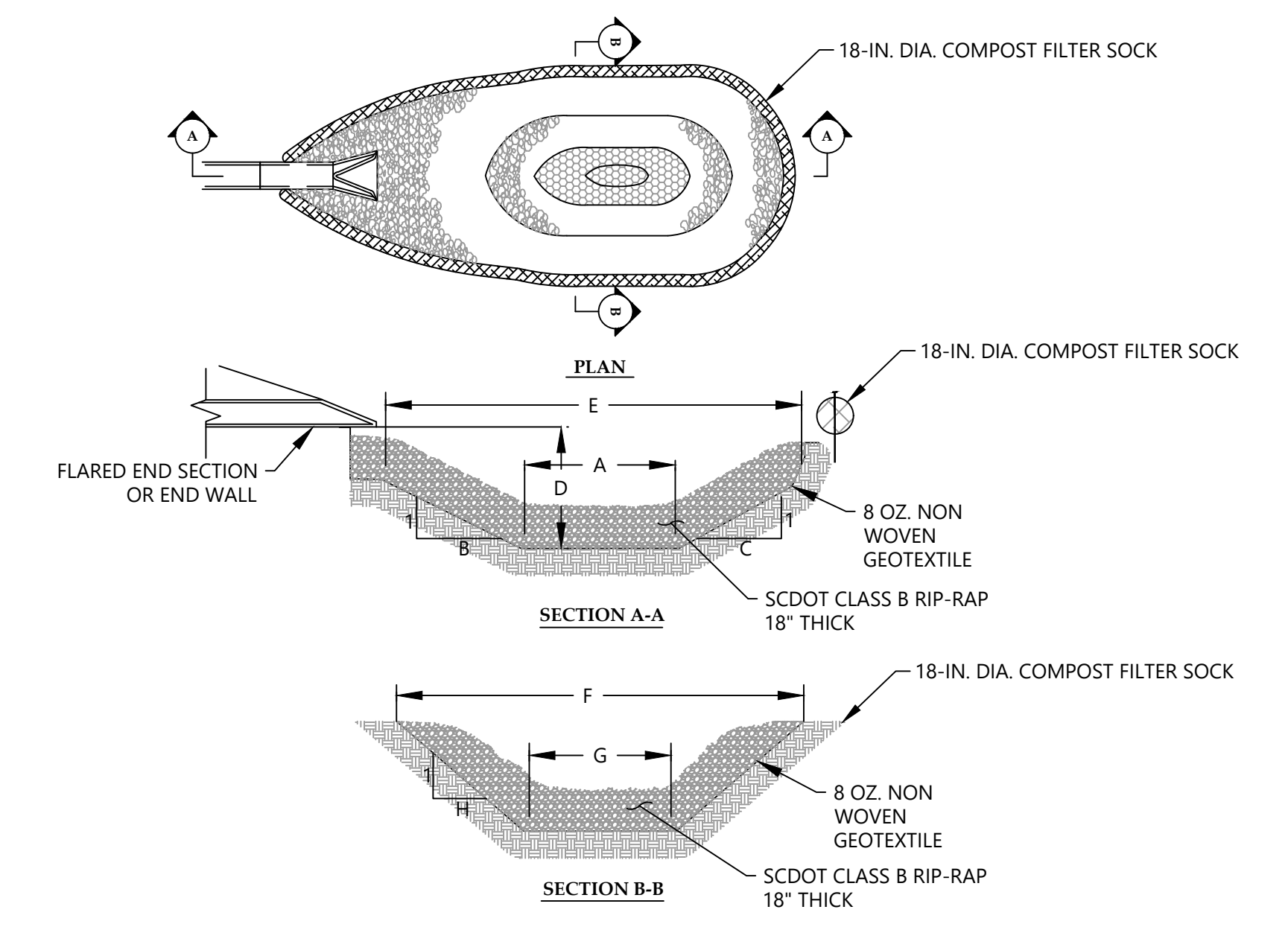
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4 SEDIMENT BASIN - CONCRETE RISER
SCALE: N.T.S.





- BAFFLES - POST REQUIREMENTS:**
- POROUS BAFFLE POSTS MUST BE 60-IN. TO 96-IN. LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS:
 - COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
 - INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-IN. AND A NOMINAL "T" LENGTH OF 1.48-IN.
 - WEIGH 1.25 POUNDS PER FOOT ($\pm 8\%$).
 - POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF BAFFLE MATERIAL.
 - INSTALL POSTS TO A MINIMUM OF 24-IN. A MINIMUM HEIGHT OF 1-IN. TO 2-IN. ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3-FT. SHALL BE MAINTAINED ABOVE THE GROUND.
 - POST SPACING SHALL BE AT A MAXIMUM OF 4-FT. ON CENTER.
- BAFFLES - MATERIAL REQUIREMENTS:**
- BAFFLE MATERIAL MUST BE COMPOSED OF COIR-BASED MATERIALS OR TURF REINFORCEMENT MATTING (TRM) THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
 - HAVE A LIGHT PENETRATION (% OPENINGS) BETWEEN 10-35%;
 - FREE OF LOOSE STRAW MATERIAL;
 - HAVE A MINIMUM TENSILE STRENGTH OF 145 LB/FT. AND;
 - HAVE A MINIMUM WIDTH OF 48-IN.
 - 12-IN. OF THE FABRIC SHOULD BE PLACED WITHIN THE EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED OR BAFFLE MATERIAL MAY BE STAPLED INTO GROUND BY USING 12-IN. STAPLES WITH A MAXIMUM SPACING OF 12-IN.
 - BAFFLE MATERIAL SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE WIDTH OF THE SEDIMENT BASIN OR TRAP TO AVOID JOINTS.
- BAFFLES - GENERAL NOTES:**
- ATTACH BAFFLE TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED ALONG THE ABOVE GROUND PORTION OF EACH POST.
 - INSTALL THE BAFFLE ROWS PERPENDICULAR TO THE DIRECTION OF THE STORMWATER FLOW AND PLACE EACH BAFFLE THE PROPER DISTANCE FROM INLET AND OUTLETS TO ALLOW ACCESS FOR MAINTENANCE AND CLEAN-OUT AS PER THE PLANS.
 - EXTEND BAFFLE TO A MINIMUM OF 3 FEET IN HEIGHT.
- BAFFLES - INSPECTION & MAINTENANCE:**
- THE KEY TO FUNCTIONAL POROUS BAFFLES IS WEEKLY INSPECTION, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
 - ALL SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. INSPECTIONS MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
 - ATTENTION TO SEDIMENT ACCUMULATIONS ALONG EACH ROW OF BAFFLES IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
 - REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE BAFFLE ROW OR WHEN IT REACHES THE CLEAN-OUT HEIGHT OF THE SEDIMENT BASIN OR TRAP, WHICHEVER IS REACHED FIRST.
 - REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
 - CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH EACH ROW OF BAFFLES, OR WHERE THE BAFFLE HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE BAFFLE.
 - CHECK FOR TEARS/RIPS WITHIN THE BAFFLES, AREAS WHERE THE BAFFLE HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE BAFFLE INEFFECTIVE. REMOVED DAMAGED BAFFLES AND REINSTALL NEW BAFFLES IMMEDIATELY.
 - POROUS BAFFLES SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE IT IS REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.
 - REMOVE ANY ACCUMULATED SEDIMENT UPON BAFFLE REMOVAL. DISPOSE OF SEDIMENT OFF-SITE ACCORDING TO STATE AND LOCAL REGULATIONS.

8 POROUS BAFFLES
SCALE: N.T.S.

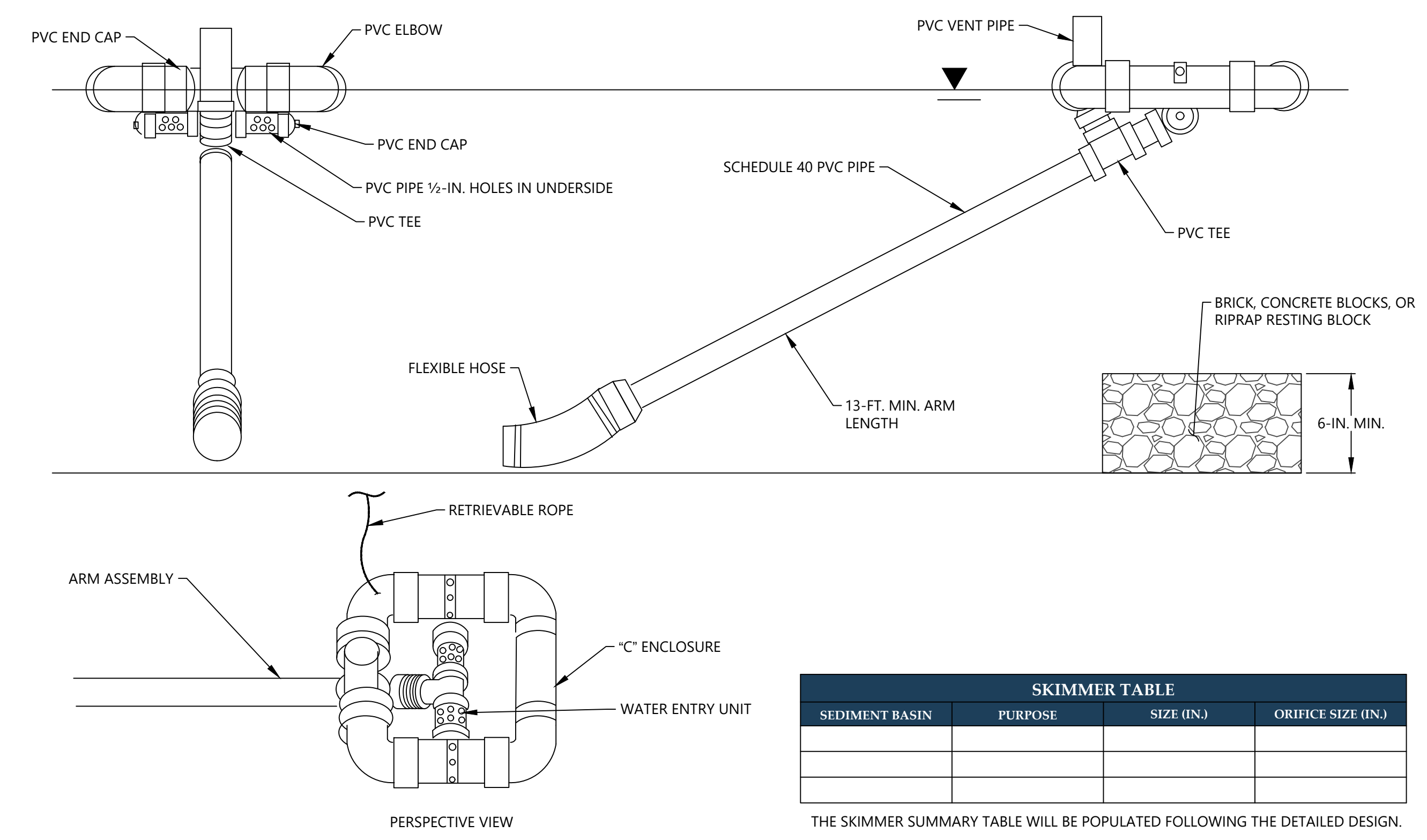


MAINTENANCE:
ALL SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. INSPECTIONS MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. REMOVE SEDIMENT AND RESTORE TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE POOL. CHECK EMBANKMENT, LINING, AND OUTLET AREA FOR ANY DAMAGE AND REPAIR AS NECESSARY, AS SOON AS PRACTICAL.

ID	A	B	C	D	E	F	G	H

THE PLUNGE POOL SUMMARY TABLE WILL BE POPULATED FOLLOWING THE DETAILED DESIGN.

9 PLUNGE POOL
SCALE: N.T.S.



SEDIMENT BASIN	PURPOSE	SIZE (IN.)	ORIFICE SIZE (IN.)

THE SKIMMER SUMMARY TABLE WILL BE POPULATED FOLLOWING THE DETAILED DESIGN.

- MAINTENANCE NOTES:**
- ALL SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. INSPECTIONS MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

10 SKIMMER
SCALE: N.T.S.

DRAWING PATH: T:\Character\1350\Project\2023\2350640_Luck Co. Luck Stone Edgefield Mine Site\Wimbaro SC\4_Energy\CAD\DWG\Mining SWPPP\DETAILS (SHEET 3 OF 9).dwg

2016 ARSLEY TOWN BLVD
SUITE 2-A
CHARLOTTE, NC 28273
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LICENSE NUMBER: E-0176

LUCK & STONE



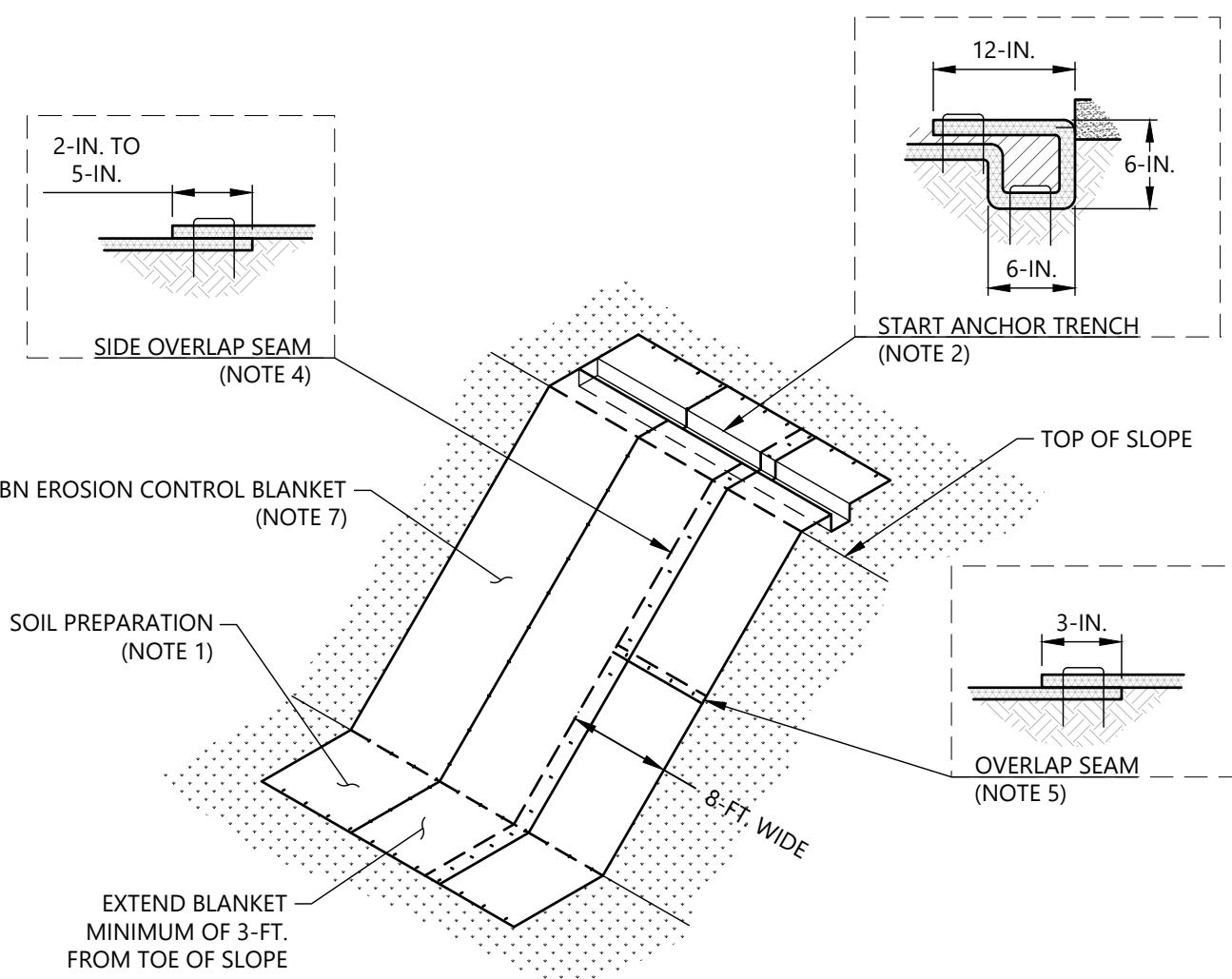
NO.	DATE	ISSUED FOR CLIENT REVIEW	BY	CHK	C/S	APV

DETAILS (3 OF 6)

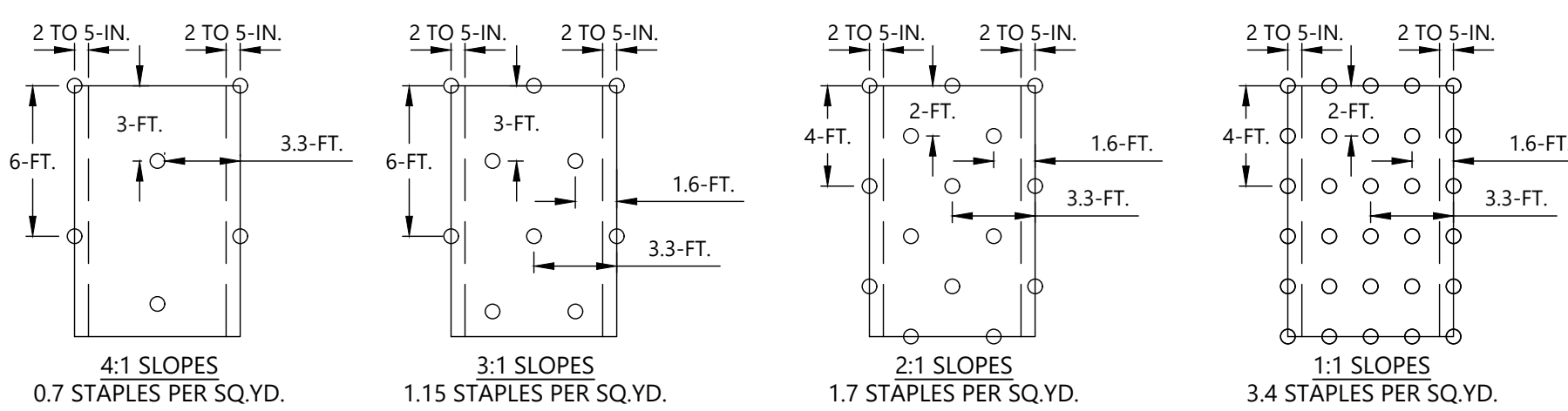
LUCK EDGEFIELD - CONCEPTUAL PLAN
LUCK STONE CORPORATION
EDGEFIELD COUNTY, SOUTH CAROLINA

PROJECT NUMBER
22350640

DRAWING NUMBER



ISOMETRIC VIEW



STAPLE PATTERNS

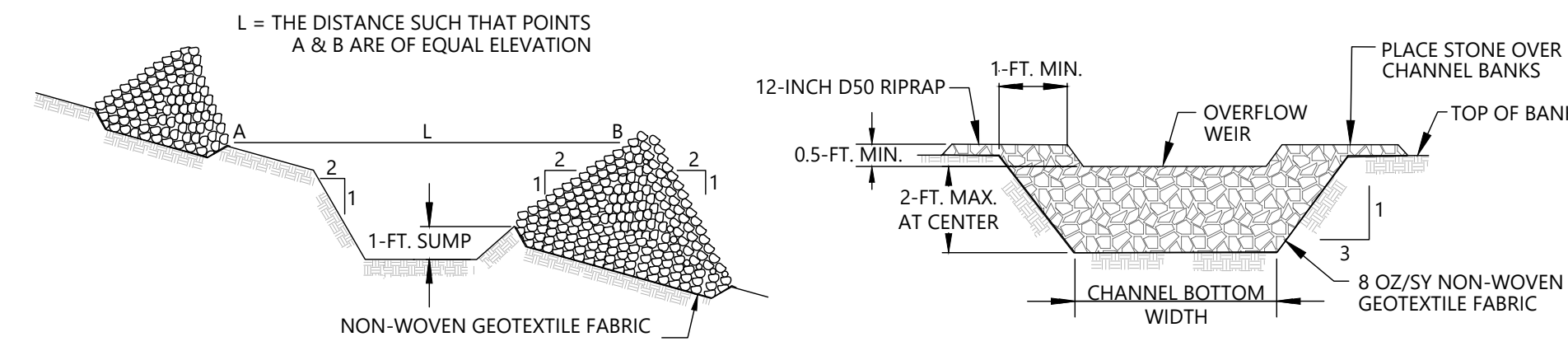
GENERAL NOTES

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (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. DEEP X 6-IN. WIDE TRENCH WITH APPROXIMATELY 12-IN. OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12-IN. APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12-IN. PORTION OF RECPs BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12-IN. APART ACROSS THE WIDTH OF THE RECPs. ROLL THE RECPs DOWN OR HORIZONTALLY ACROSS THE SLOPE BASED ON ENVIRONMENT INSPECTOR. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
3. THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 2 TO 5-IN. OVERLAP DEPENDING ON THE RECPs TYPE.
4. CONSECUTIVE RECPs SPICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3-IN. OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12-IN. APART ACROSS ENTIRE RECPs WIDTH.
5. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6-IN. MAY BE NECESSARY TO PROPERLY SECURE THE RECPs.
6. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN BIONET SC150BN OR ENGINEER APPROVED EQUIVALENT.
7. FOLLOW MANUFACTURERS SPECIFICATIONS IF THERE IS A DISCREPANCY IN NOTES OR IF ENGINEER APPROVED ALTERNATIVE IS USED.

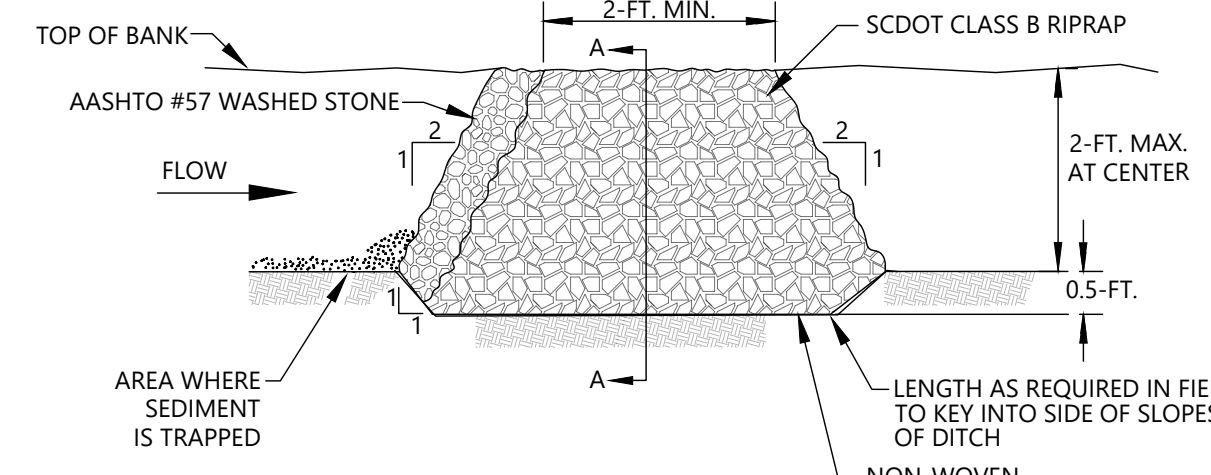
MAINTENANCE NOTES

1. ALL SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. INSPECTIONS MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
 2. MAKE ANY NECESSARY REPAIRS IMMEDIATELY.
 3. GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.
 4. ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
 5. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
 6. MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.
- REFERENCE: DETAIL BASED ON SCDHEC STORM WATER MANAGEMENT BMP HANDBOOK DATED JULY 31, 2015 (PORTIONS REVISED MAY 2014), NORTH AMERICAN GREEN INSTALLATION GUIDE, AND AMERICAN EXCELSIOR CURLEX SLOPE DETAIL ISOMETRIC VIEW.

15 EROSION CONTROL BLANKET - SLOPE
SCALE: N.T.S.



SPACING BETWEEN ROCK CHECK DAMS



TYPICAL ROCK CHECK DAM SECTION

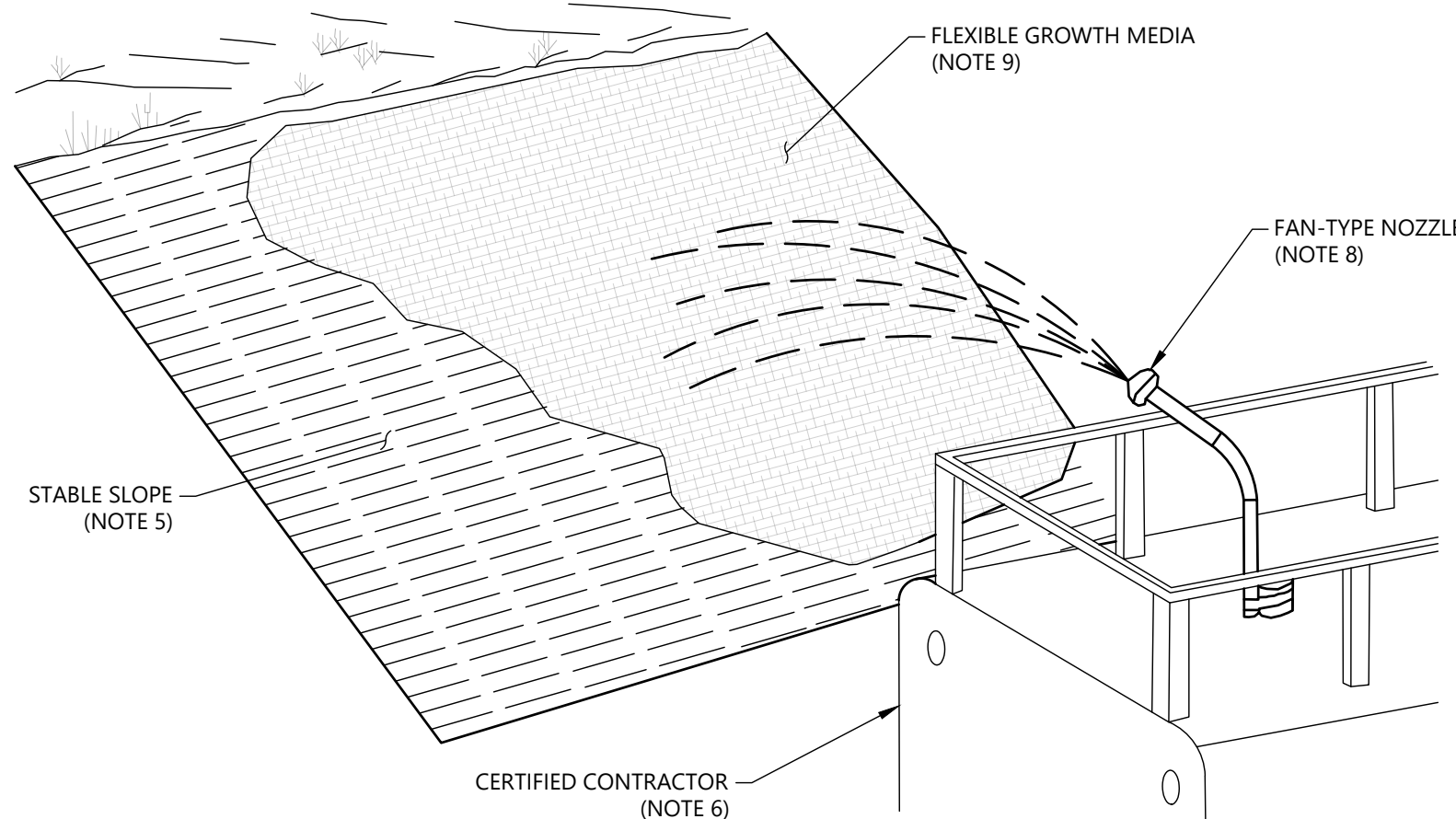
CROSS SECTION A-A THRU ROCK CHECK DAM

MAINTENANCE NOTES

1. THE KEY TO FUNCTIONAL ROCK CHECK DAMS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
2. ALL SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. INSPECTIONS MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
3. ATTENTION TO SEDIMENT ACCUMULATIONS IN FRONT OF THE ROCK CHECK DAM IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
4. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE ROCK CHECK DAM.
5. REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
6. INSPECT ROCK CHECK DAMS' EDGES FOR EROSION AND EVIDENCE OF RUNOFF BYPASSING THE INSTALLED CHECK. IF EVIDENT REPAIR PROMPTLY AS NECESSARY TO PREVENT EROSION AND BYPASSING.
7. IN THE CASE OF GRASS-LINED DITCHES, CHANNELS, AND SWALES, ROCK CHECK DAMS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE UNLESS THE SLOPE OF THE SWALE IS GREATER THAN 4%.
8. AFTER CONSTRUCTION IS COMPLETED AND FINAL STABILIZATION IS REACHED, THE ENTIRETY OF THE ROCK CHECK DAM SHOULD BE REMOVED IF VEGETATION WILL BE USED FOR PERMANENT EROSION CONTROL MEASURES. THE AREA BENEATH THE REMOVED ROCK CHECK DAMS MUST BE ADDRESSED WITH PERMANENT STABILIZATION MEASURES.

REFERENCE: DETAIL BASED ON SCDHEC STORM WATER MANAGEMENT BMP HANDBOOK DATED JULY 31, 2005, REVISED MARCH 2014.

16 ROCK CHECK DAM
SCALE: N.T.S.



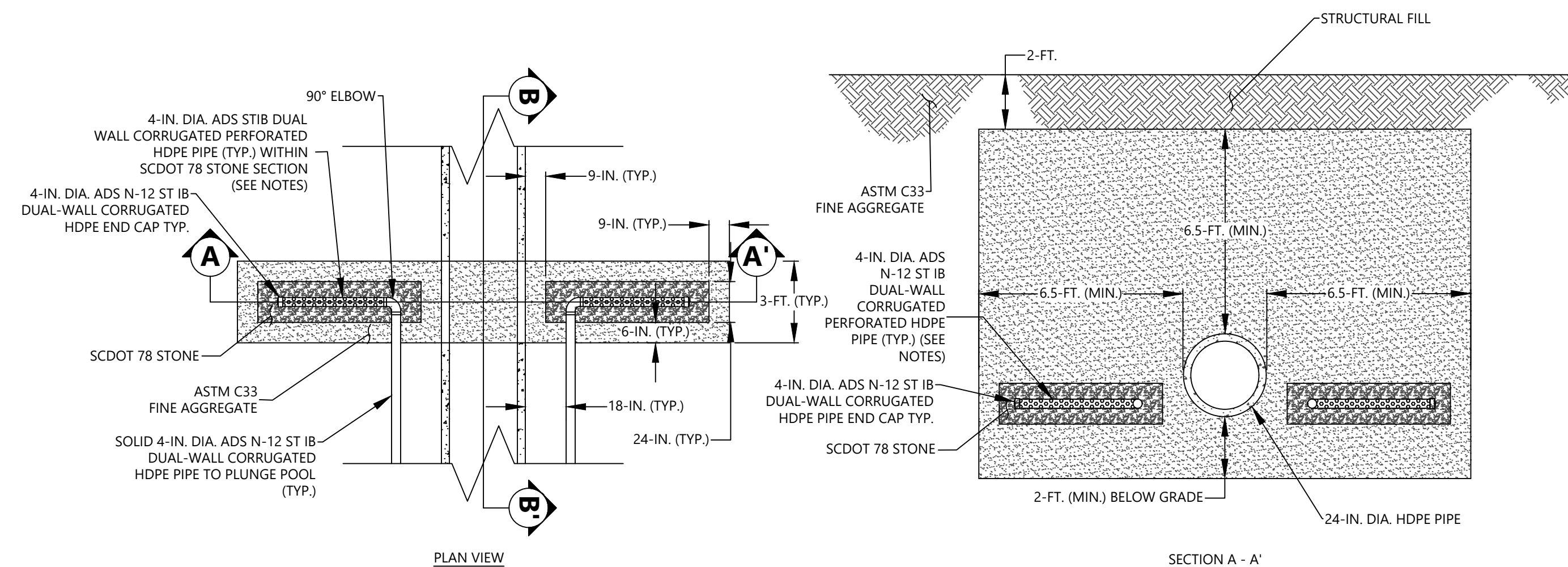
MAINTENANCE NOTES

1. ALL SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. INSPECTIONS MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
2. REAPPLY FGM TO DISTURBED AREAS THAT REQUIRE CONTINUED EROSION CONTROL.
3. MAINTAIN EQUIPMENT TO PROVIDE UNIFORM APPLICATION RATES. RINSE ALL MIXING AND APPLICATION EQUIPMENT THOROUGHLY WITH WATER TO AVOID FORMATION OF RESIDUES AND DISCHARGE RINSE WATER APPROPRIATELY.
4. DEGRADATION OF FGM IS EXPECTED TO OCCUR AS A RESULT OF MECHANICAL DEGRADATION, CHEMICAL AND BIOLOGICAL HYDROLYSIS, SUNLIGHT, SALT AND TEMPERATURE. REAPPLICATION IS NOT REQUIRED UNLESS FGM TREATED SOILS ARE DISTURBED OR TURBIDITY OR WATER QUALITY SHOWS THE NEED FOR AN ADDITIONAL APPLICATION.

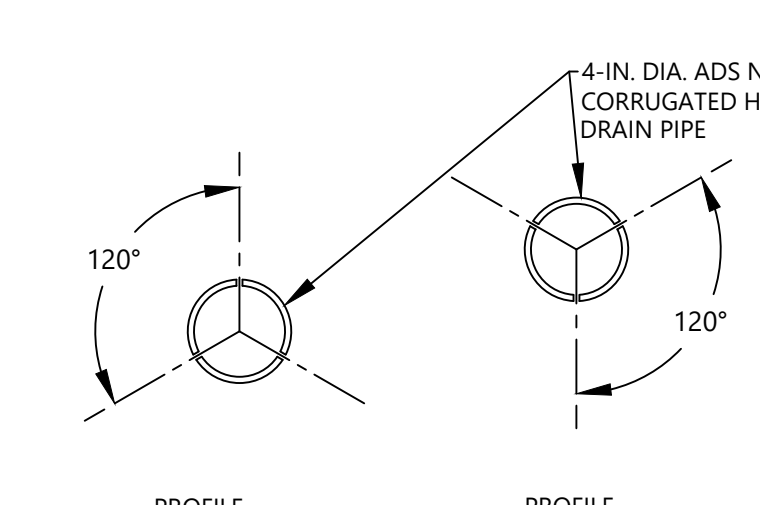
GENERAL NOTES

1. A FLEXIBLE GROWTH MEDIA (FGM) COMBINES BOTH CHEMICAL AND MECHANICAL BONDING TECHNIQUES TO LOCK THE MATRIX IN PLACE. FGM IS COMPOSED OF CRIMPED, MANMADE FIBERS, ORGANIC FIBERS, AND PERFORMANCE ENHANCING ADDITIVES THAT FORM A LOFTY, INTERLOCKING MATRIX. FGM HAS AIR SPACES AND WATER-ABSORBING CAVITIES THAT IMPROVE SEED GERMINATION, REDUCE THE IMPACT OF RAINDROP ENERGY, AND MINIMIZE SOIL LOSS. WATER INSOLUBLE TACKIFIERS AND FLOCCULANTS CHEMICALLY BOND THE MATRIX TO THE SOIL SURFACE.
2. FGM IS APPLICABLE FOR THE FOLLOWING SITUATIONS:
 - AS A TYPE A TEMPORARY EROSION CONTROL BLANKET;
 - SLOPES UP TO 2H:1V;
 - AS AN INFILL FOR TURF REINFORCEMENT MATS (TRMS) ON SLOPES GREATER THAN 2H:1V;
 - ENVIRONMENTALLY SENSITIVE AREAS NOT COMPATIBLE FOR NETTING;
 - WHEN THE REQUIRED LONGEVITY OF SOIL PROTECTION IS UP TO 1 YEAR;
 - WHEN THE SITE REQUIRES IMMEDIATE EROSION PROTECTION AND THERE IS A RISK OF IMPENDING WEATHER;
 - WHEN FAST VEGETATION ESTABLISHMENT IS REQUIRED; AND
 - WHEN A HIGH FACTOR OF DESIGN SAFETY IS REQUIRED.
3. FGM IS NOT APPLICABLE AS A CHANNEL LINER OR FOR AREAS RECEIVING CONCENTRATED FLOW. APPLICABLE FGM MAY BE SELECTED FROM THE SCDOT APPROVED PRODUCTS LIST. FLEXIBLE GROWTH MEDIA (FGM) COMPONENTS ARE PRE-PACKAGED BY THE MANUFACTURER TO ASSURE MATERIAL PERFORMANCE. UNDER NO CIRCUMSTANCES IS FIELD MIXING OF MATERIALS, ADDITIVES OR COMPONENTS ACCEPTED. EXAMINE SUBSTRATES AND CONDITIONS WHERE MATERIALS WILL BE APPLIED.
4. APPLY FGM TO GEOTECHNICALLY STABLE SLOPES THAT HAVE BEEN DESIGNED AND CONSTRUCTED TO DIVERT RUNOFF AWAY FROM THE FACE OF THE SLOPE. DO NOT PROCEED WITH INSTALLATION UNTIL SATISFACTORY CONDITIONS ARE ESTABLISHED.
5. INSTALL FGM WITH A CONTRACTOR WHO IS CERTIFIED AND TRAINED BY THE MANUFACTURER IN THE PROPER PROCEDURES FOR MIXING AND APPLYING THE FGM.
6. STRICTLY COMPLY WITH THE MANUFACTURER'S MIXING RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
7. USE APPROVED HYDRAULIC SEEDING/MULCHING MACHINES WITH FAN-TYPE NOZZLE (50-DEGREE TIP) FOR FGM APPLICATIONS.
8. APPLY FGM FROM OPPOSING DIRECTIONS TO THE SOIL SURFACE IN SUCCESSIVE LAYERS, REDUCING THE "SHADOW EFFECT" TO ACHIEVE MAXIMUM COVERAGE OF ALL EXPOSED SOIL.
9. FGM DOES NOT REQUIRE A CURE TIME AND IS EFFECTIVE IMMEDIATELY SUCH THAT FGM MAY BE APPLIED IMMEDIATELY BEFORE, DURING OR AFTER A RAINFALL EVENT.
10. INSTALL FGM MATERIALS ACCORDING TO THE MANUFACTURER'S APPLICATION RATES.

17 FLEXIBLE GROWTH MEDIA
SCALE: N.T.S.



PLAN VIEW



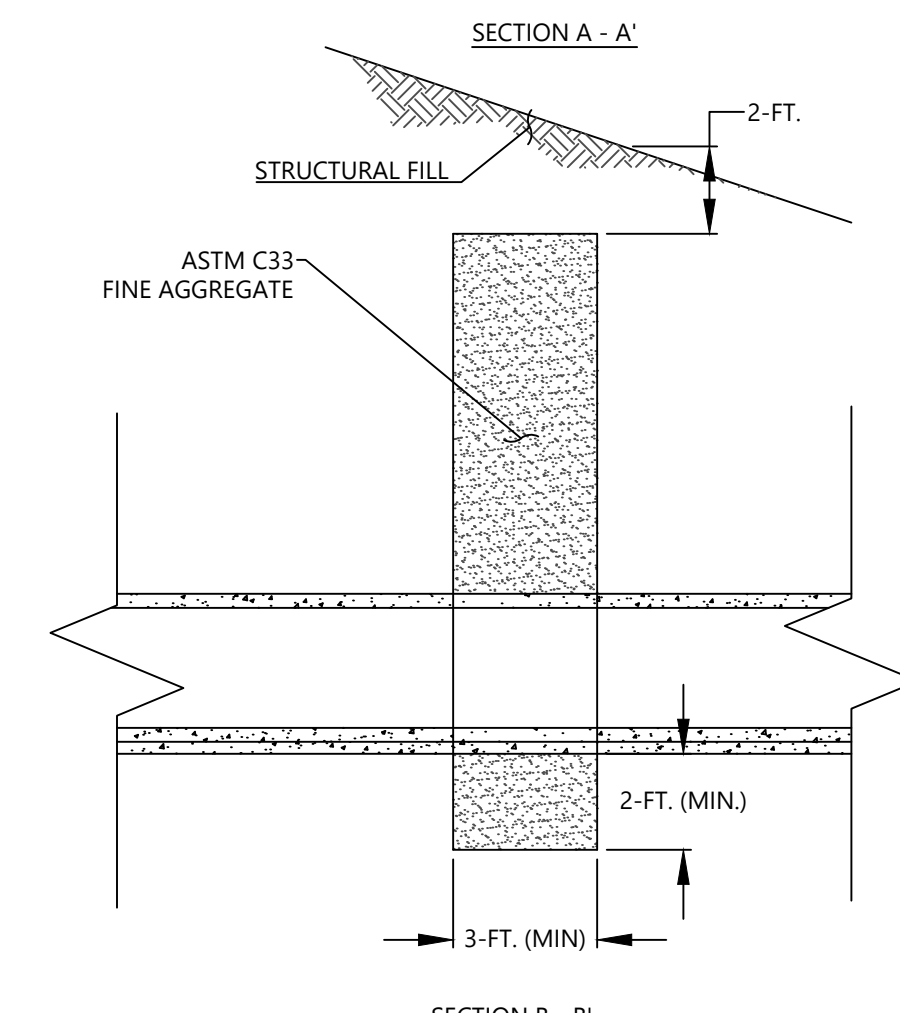
PROFILE

PROFILE

NOTES:

1. PIPE SHALL CONSIST OF ADS N-12 STIB INNER BARREL DUAL WALL CORRUGATED HDPE PIPE OR ENGINEER APPROVED EQUIVALENT.
2. PERFORATIONS SHALL CONSIST OF MAXIMUM 0.875-INCH (22-MM) LENGTH BY 0.125-INCH (3-MM) SLOTS IN WIDTH.
3. PERFORATION PATTERN SHALL BE AASHTO CLASS II.
4. THE PERFORATION PATTERN SHALL BE ROTATED 30° AT EVERY VALLEY.
5. THE DRAIN SHOULD EXTEND A MINIMUM OF 3 TIMES THE OUTLET PIPE DIAMETER IN THREE DIRECTIONS, HORIZONTALLY AND ABOVE THE PIPE.
6. LOCATE THE DIAPHRAGM DRAIN SO THAT IT HAS A MINIMUM OF 2-FT. OF SOIL COVER OVER IT.

18 SEEPAGE DIAPHRAGM DRAIN
SCALE: N.T.S.

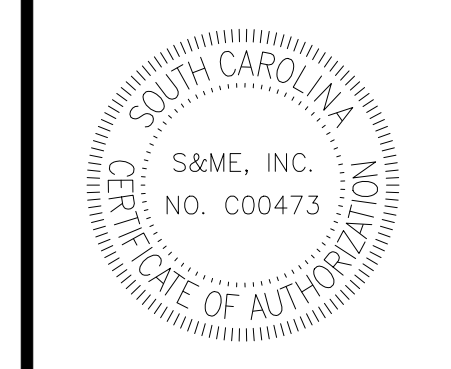


SECTION A - A'

SECTION B - B'

2016 ARSLEY TOWN BLVD
SUITE 2-A
CHARLOTTE, NC 28273
(704) 523-4726
ENGINEERING FIRM
LICENSE NUMBER: E-0176

LUCK & STONE



NO.	DATE	ISSUED FOR CLIENT REVIEW	BY	CHK	CHR
	02/15/2024		MJH	APV	

DETAILS (5 OF 6)

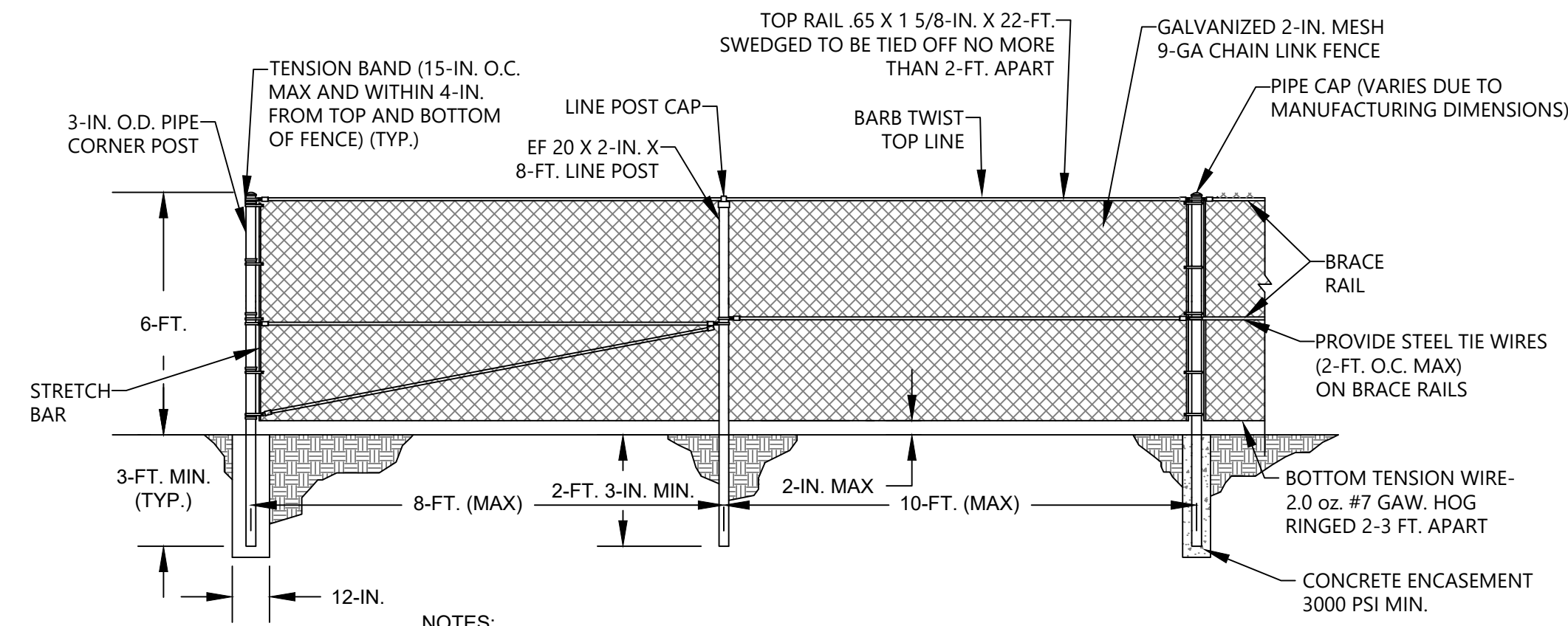
LUCK EDGEFIELD - CONCEPTUAL PLAN
LUCK STONE CORPORATION
EDGEFIELD COUNTY, SOUTH CAROLINA

PROJECT NUMBER
22350640

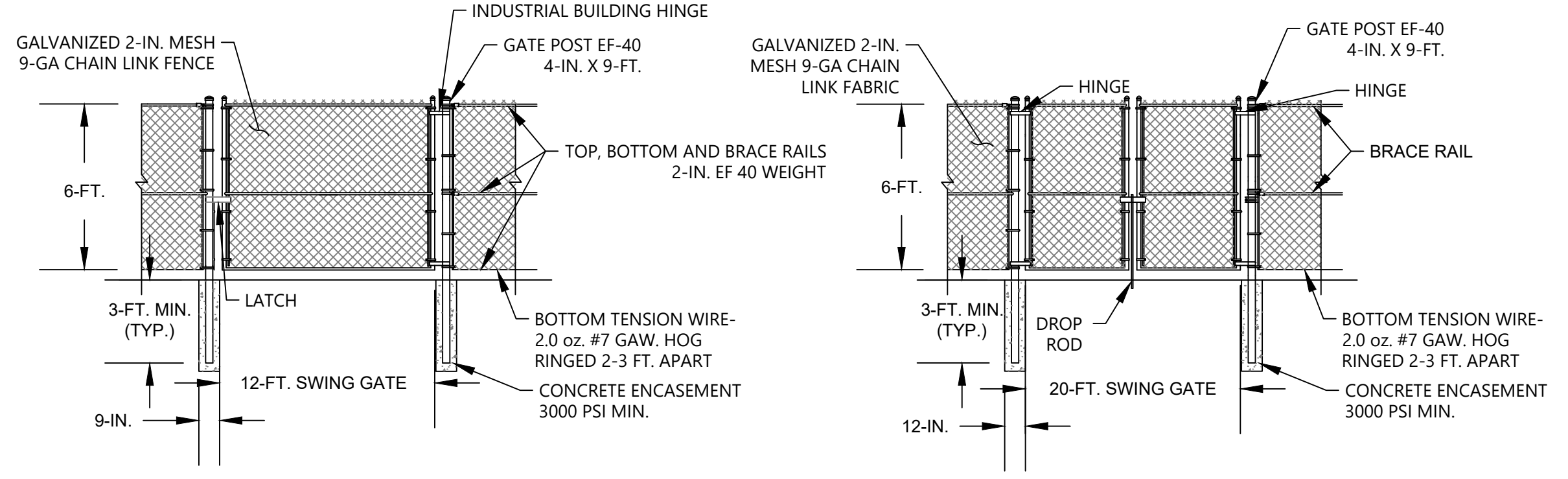
DRAWING NUMBER
7

8

DRAWING PATH: T:\charlotte-13520\Projects\2023\2350640_Luck Co. Luck Stone Edgefield Mine Site_Wimborne SCL Energy\CADD\DWG\Mining SWPPP\DETAILS (SHEET 5 OF 9).dwg



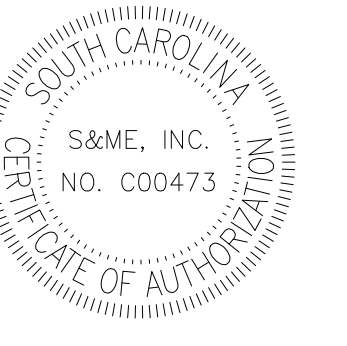
- NOTES:
1. ALL FENCE COMPONENT MATERIALS SHALL BE HOT DIPPED GALVANIZED STEEL. FENCE MESH SHOULD BE 2.0 OZ. GAW.
 2. BOTTOM SELLIAGE SHALL BE KNUCKLED
 3. ALL LINE POSTS TO BE DRIVEN. ALL TERMINAL POSTS SUCH AS END, CORNER, CURVE, AND GATE POSTS TO BE PLACED IN CONCRETE.



19 CHAIN LINK FENCE
8 SCALE: N.T.S.



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1	02/15/2024			AEW	CHK	C/S	APV

DETAILS (6 OF 6)
LUCK EDGEFIELD - CONCEPTUAL PLAN
LUCK STONE CORPORATION
EDGEFIELD COUNTY, SOUTH CAROLINA

PROJECT NUMBER
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DRAWING NUMBER

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