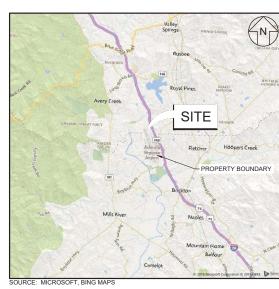
PERMIT DRAWINGS AREA 1 PROPOSED CAP DESIGN ASHEVILLE REGIONAL AIRPORT FLETCHER, NORTH CAROLINA **PROJECT NO. GC7177 DECEMBER 2020**





VICINITY MAP

	DRAWING LIST				
NUMBER	TITLE				
1	TITLE SHEET				
2	EXISTING CONDITIONS				
3	OVERALL SITE PLAN				
4	SUBGRADE GRADING PLAN I				
5	SUBGRADE GRADING PLAN II				
6	FINAL GRADING PLAN I				
7	FINAL GRADING PLAN II				
8	STORMWATER POND PLAN				
9	CAP CROSS SECTIONS				
10	STORMWATER POND CROSS SECTIONS AND OUTLET DETAILS				
11	STORMWATER DETAILS				
12	CONSTRUCTION DETAILS I				
13	CONSTRUCTION DETAILS II				
14	MISCELLANEOUS DETAILS I				
15	MISCELLANEOUS DETAILS II				
16	MISCELLANEOUS DETAILS III				



LOCATION MAP

SCALE: 1" = 2 MILES

PREPARED FOR:

DUKE ENERGY PROGRESS, LLC 400 SOUTH TRYON STREET CHARLOTTE, NC 28202 USA

PREPARED BY:

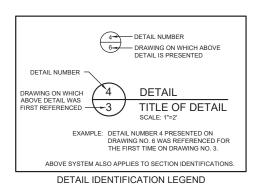
Geosyntec D

PROGRESS

1300 SOUTH MINT STREET, SUITE 300 CHARLOTTE, NC 28203 USA

PHONE: 704.227.0840

consultants of NC, P.C.

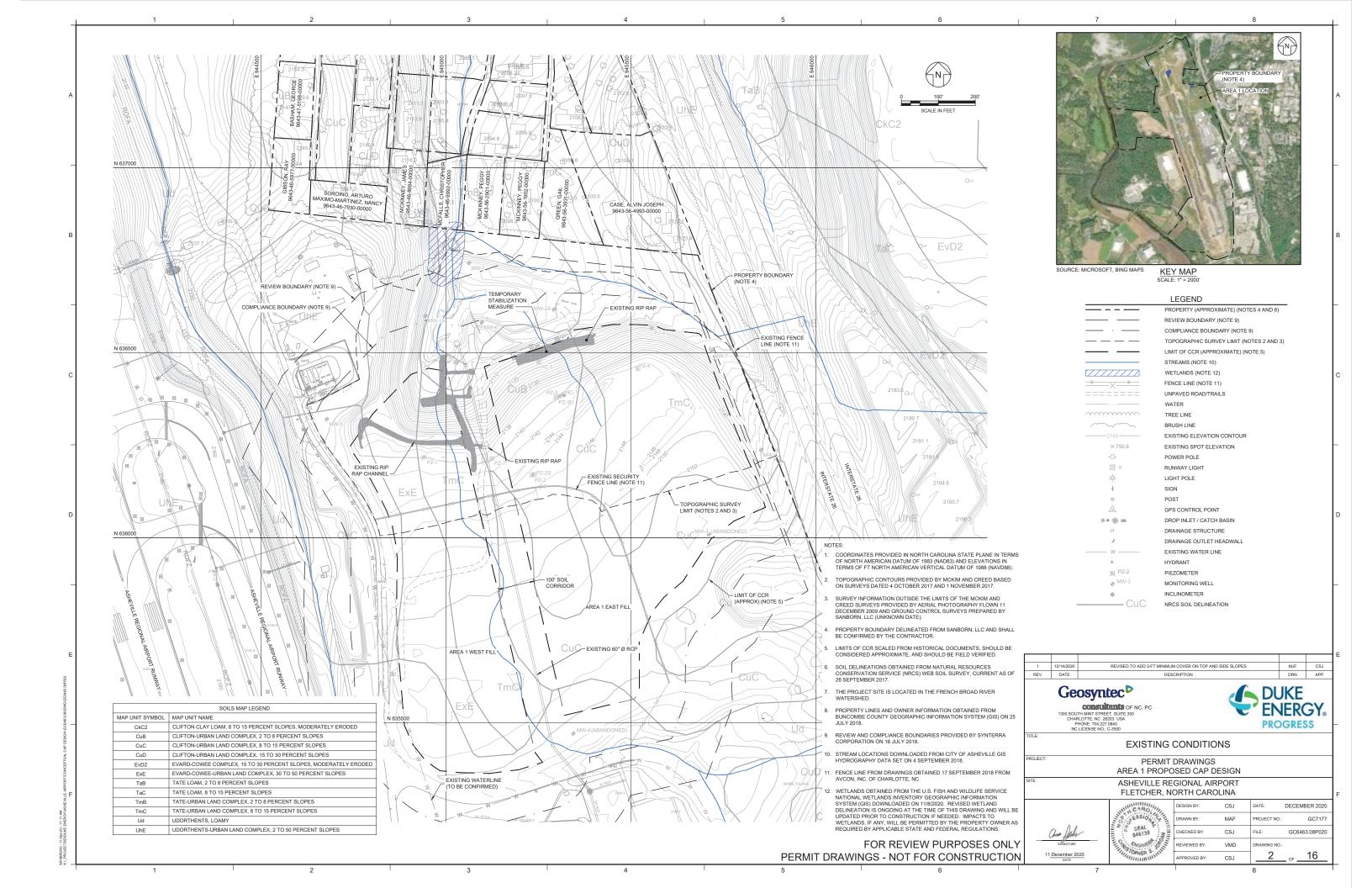


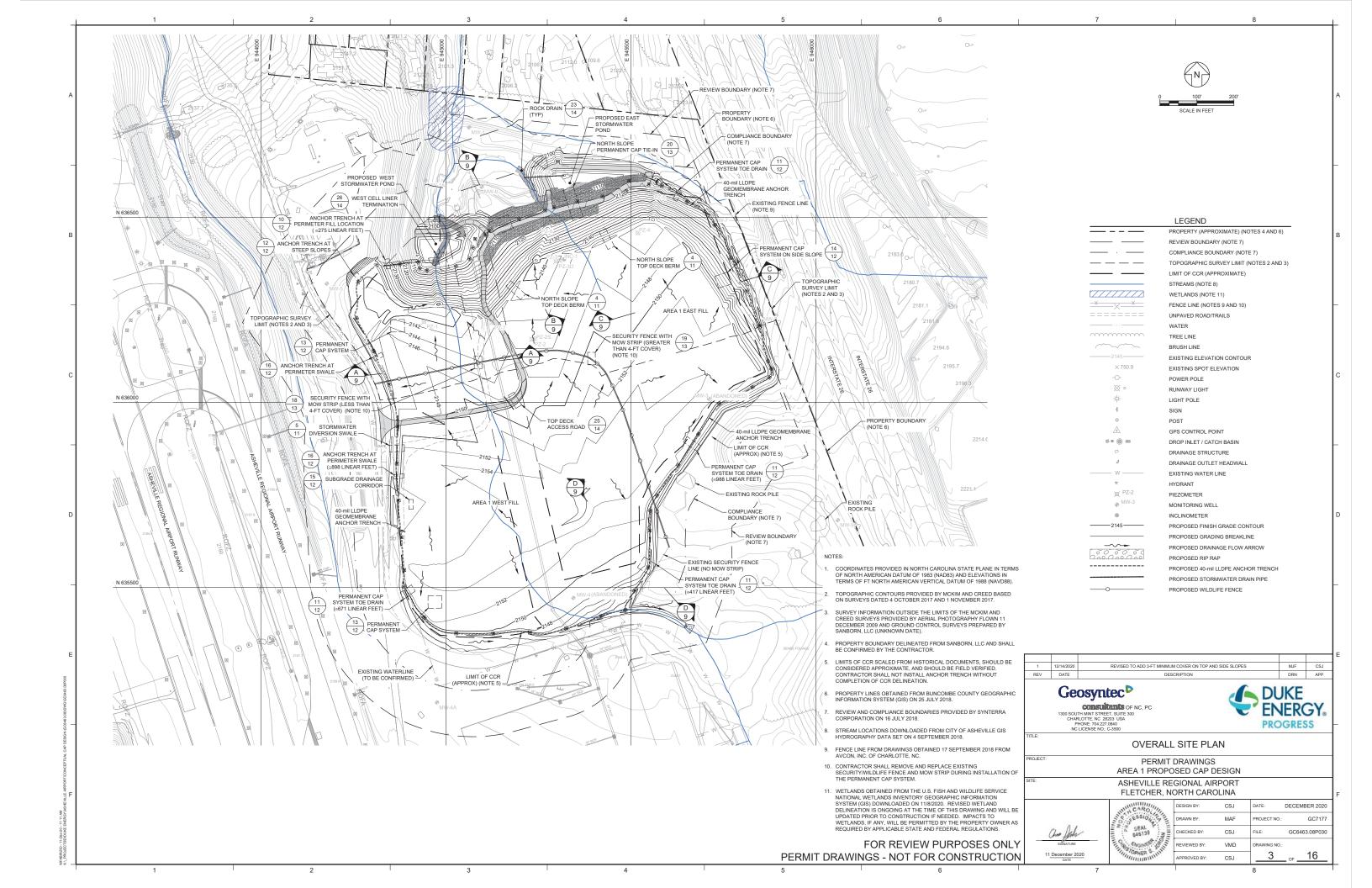
TITLE SHEET PERMIT DRAWINGS AREA 1 PROPOSED CAP DESIGN ASHEVILLE REGIONAL AIRPORT FLETCHER, NORTH CAROLINA GC7177 FOR REVIEW PURPOSES ONLY PERMIT DRAWINGS - NOT FOR CONSTRUCTION

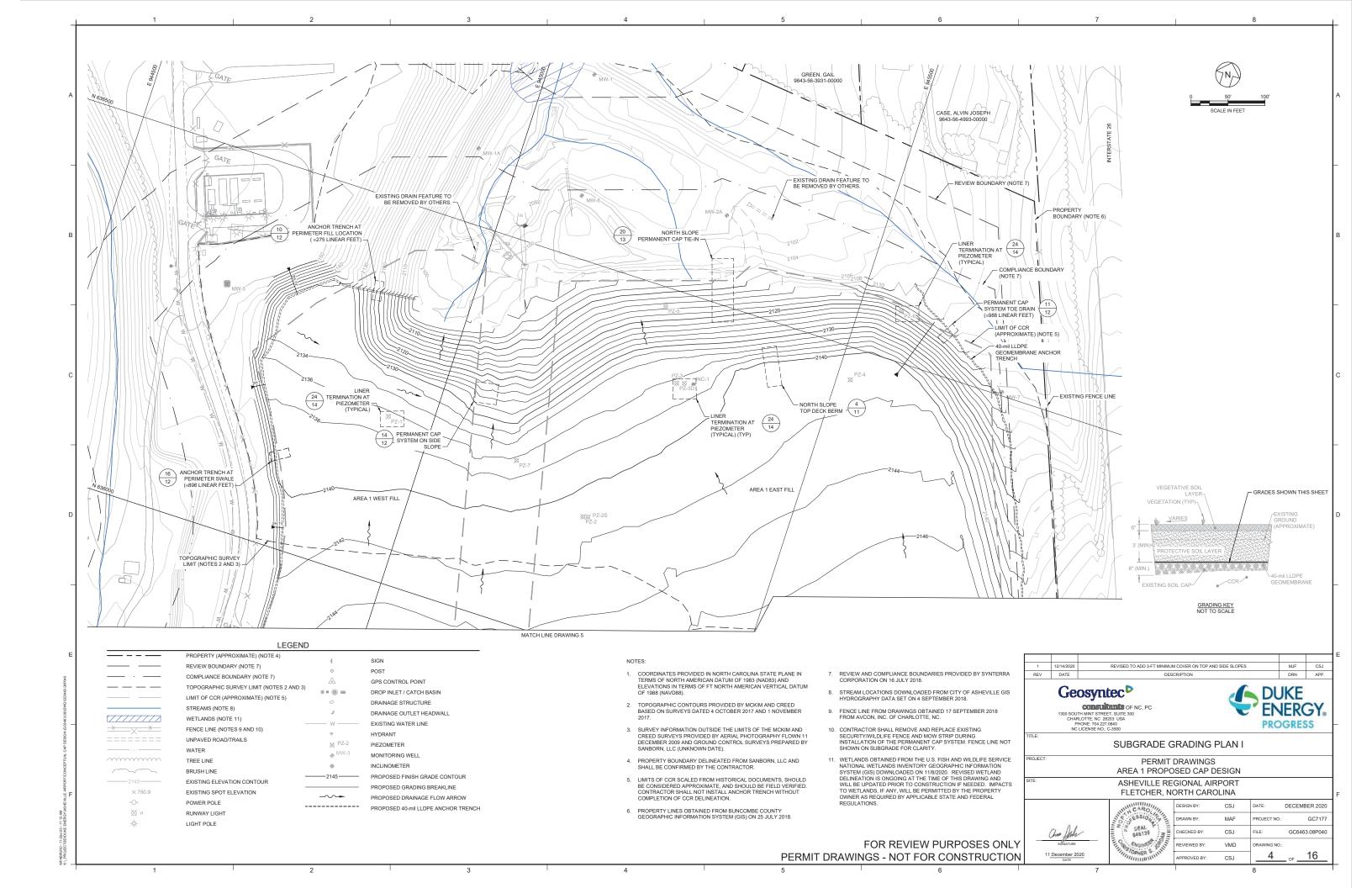
Geosyntec^D

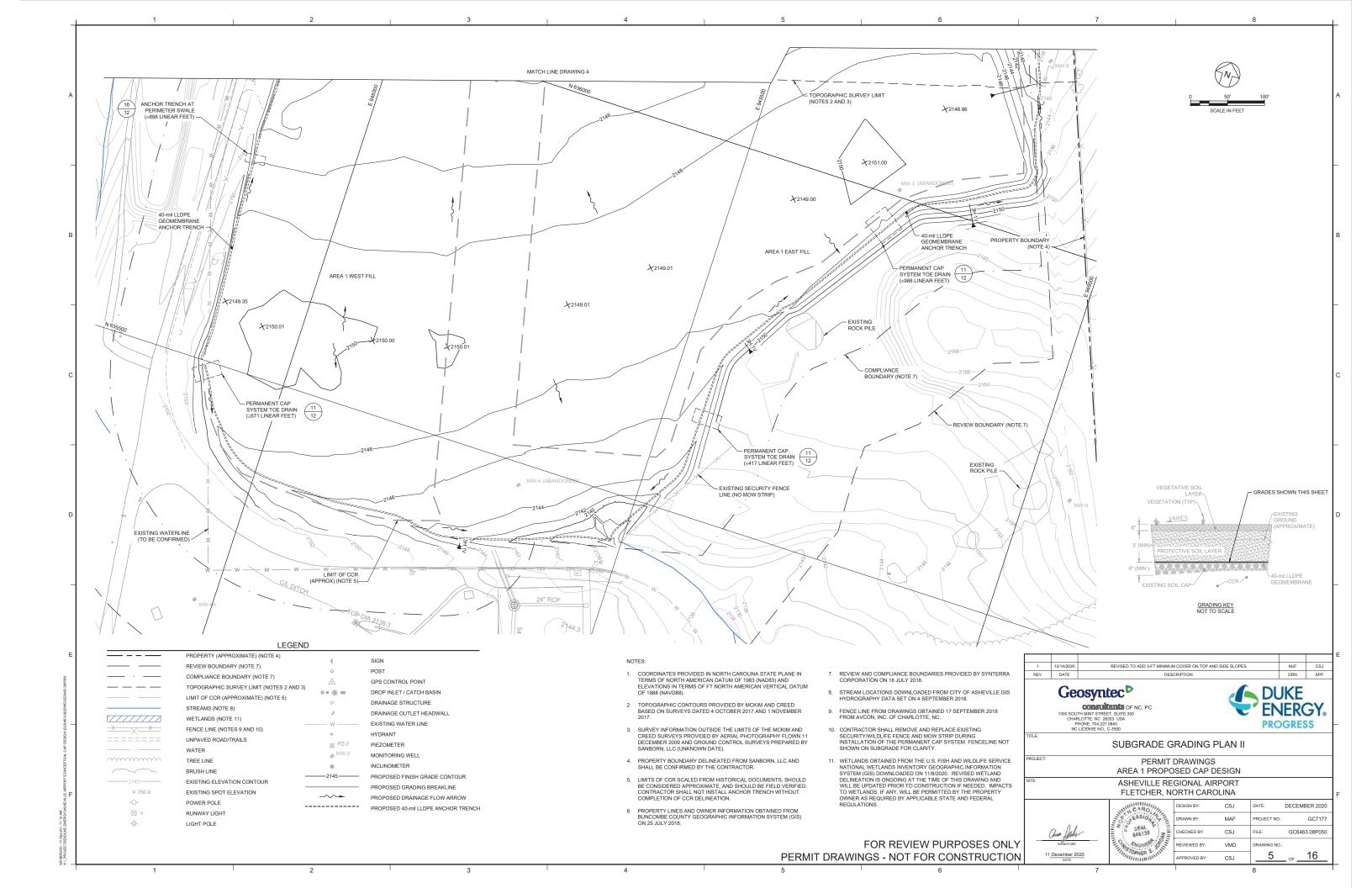
consultants OF NC, PC

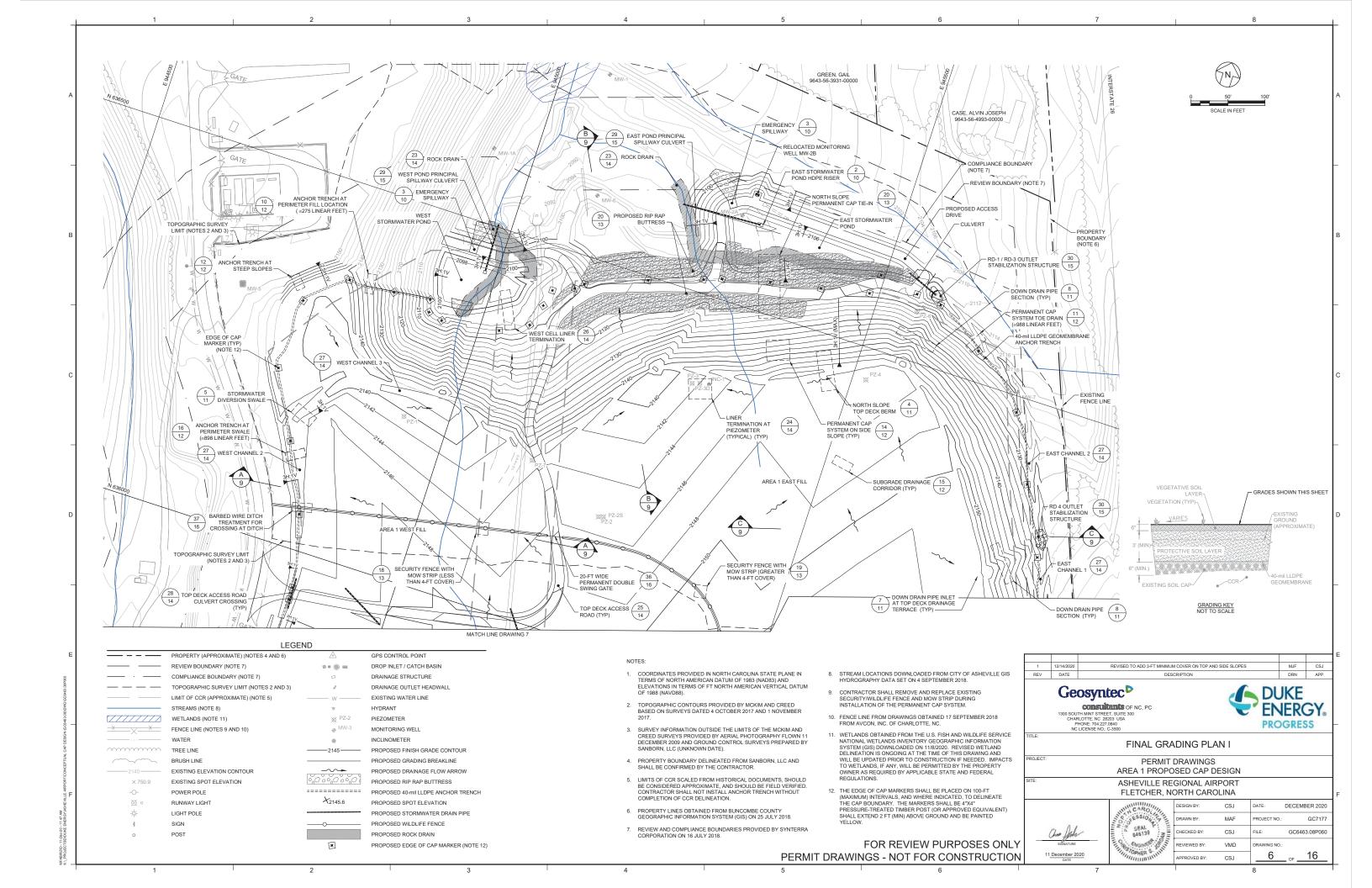
DUKE

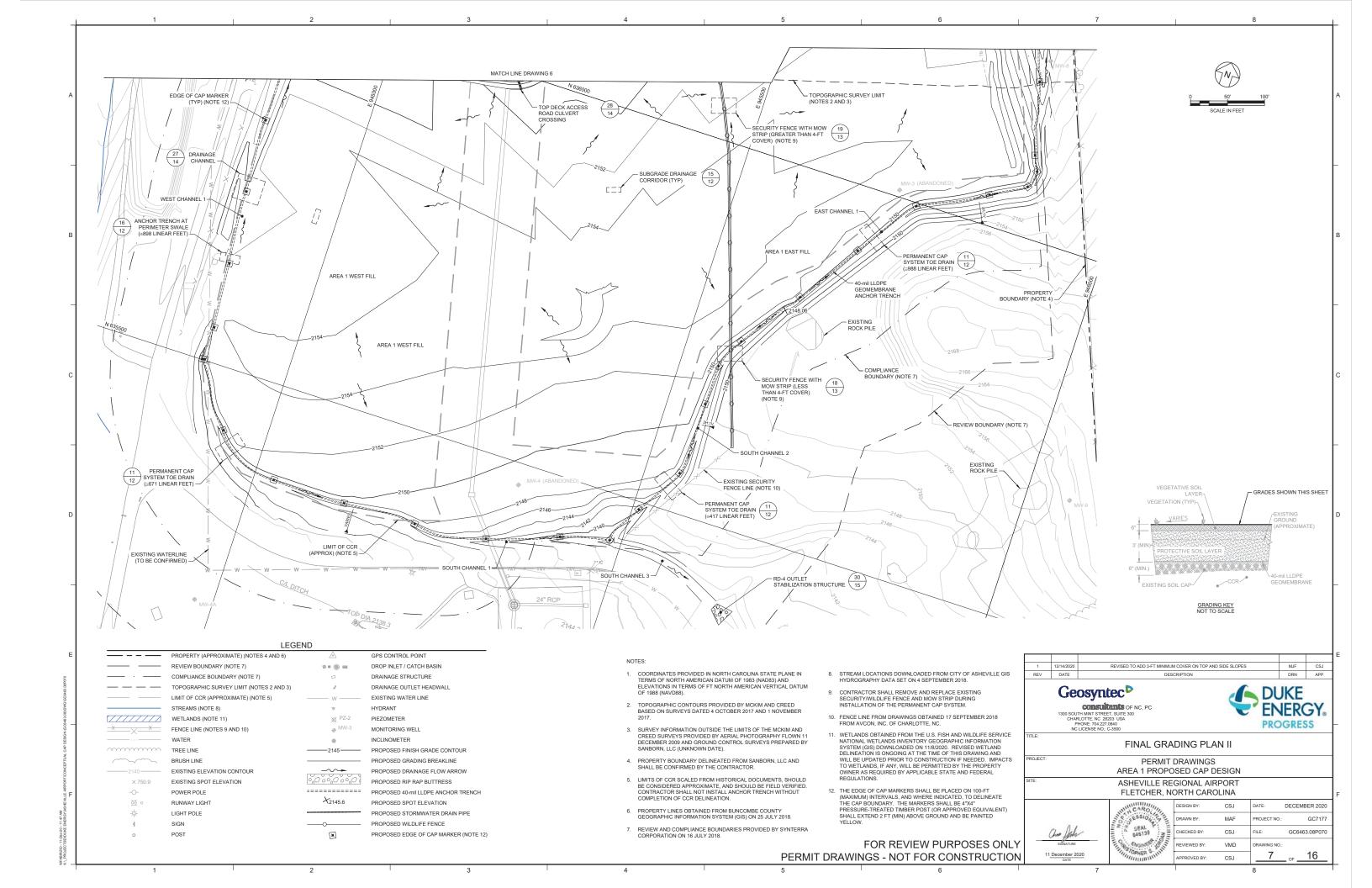


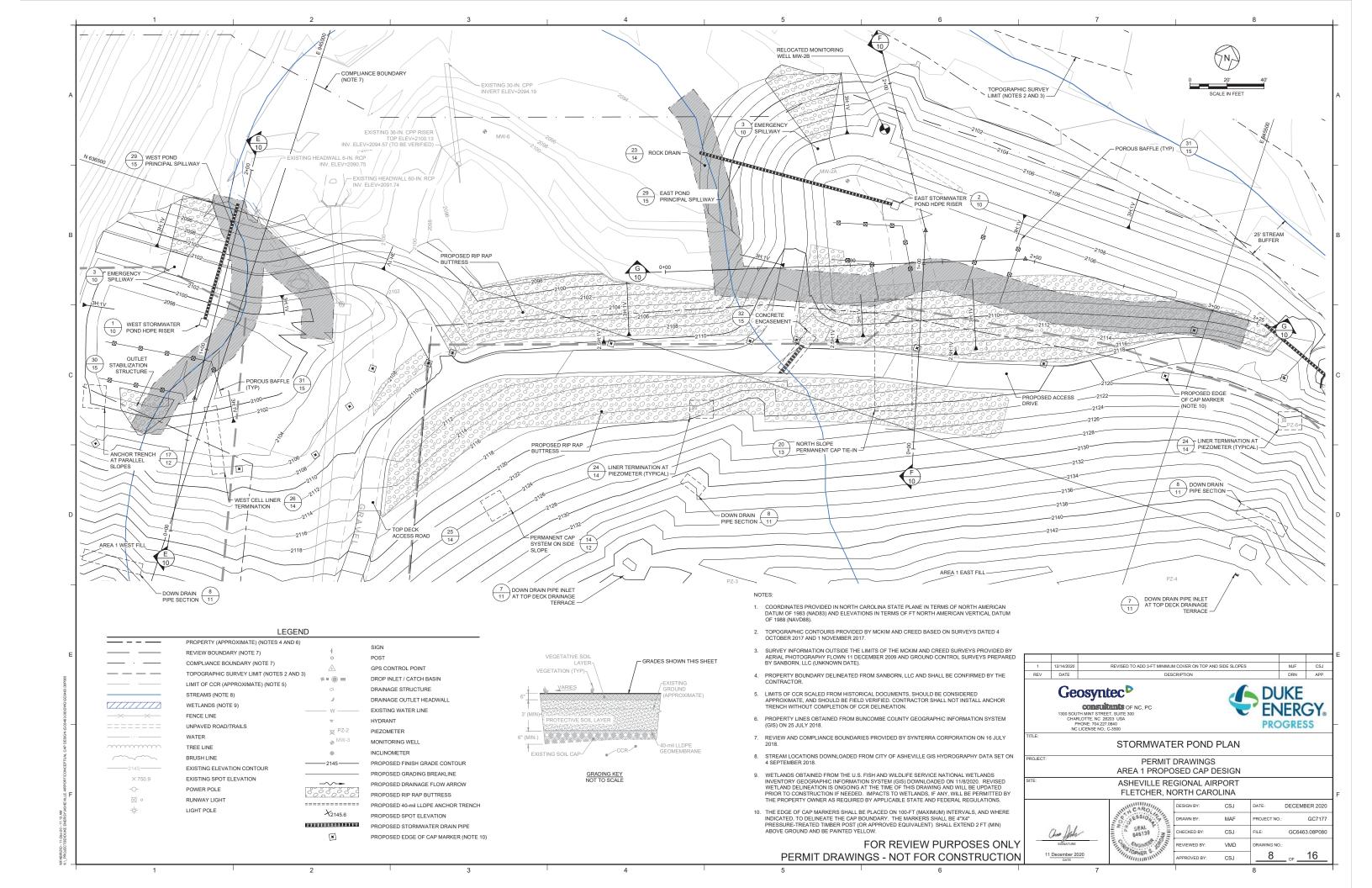


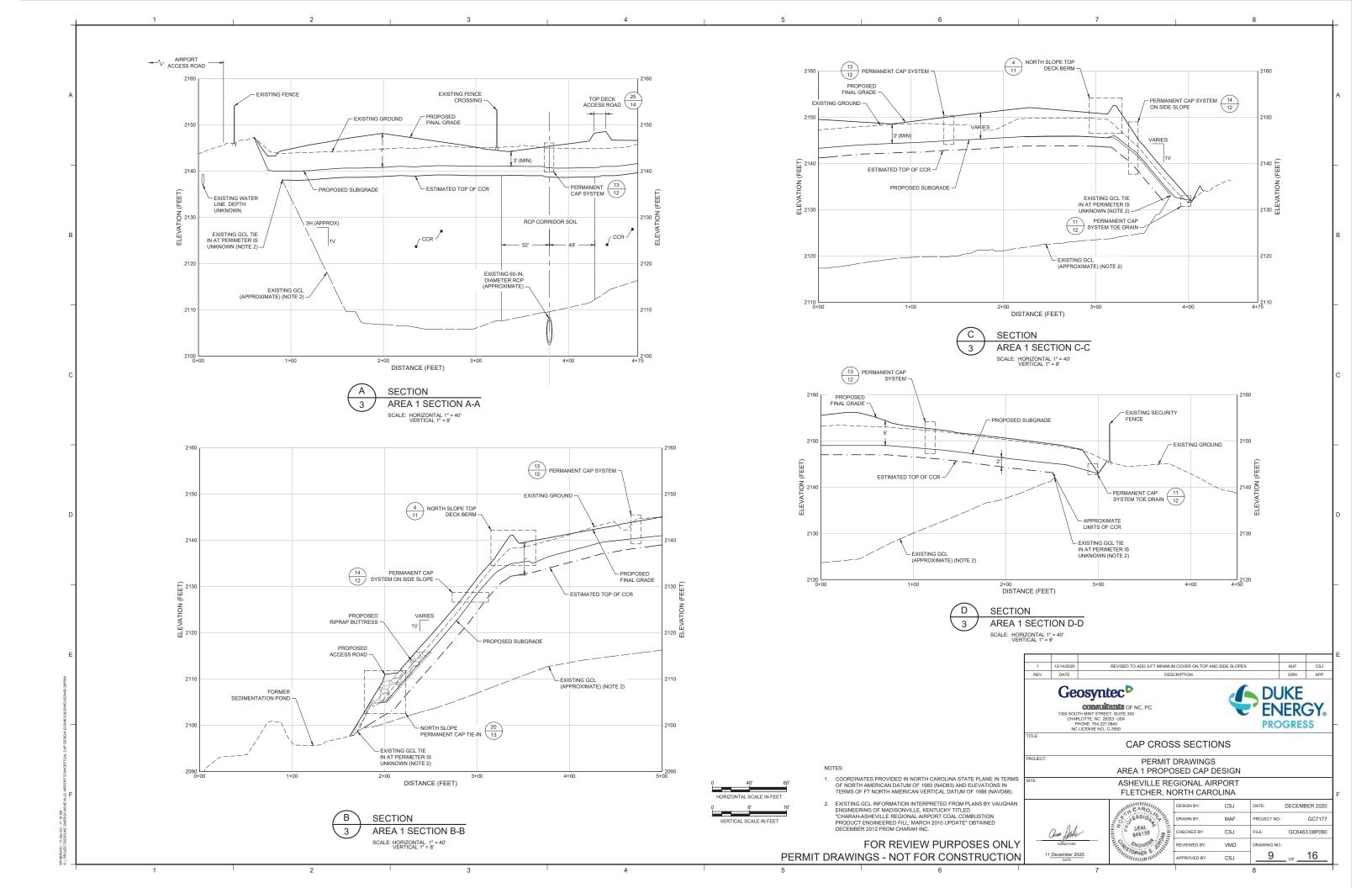


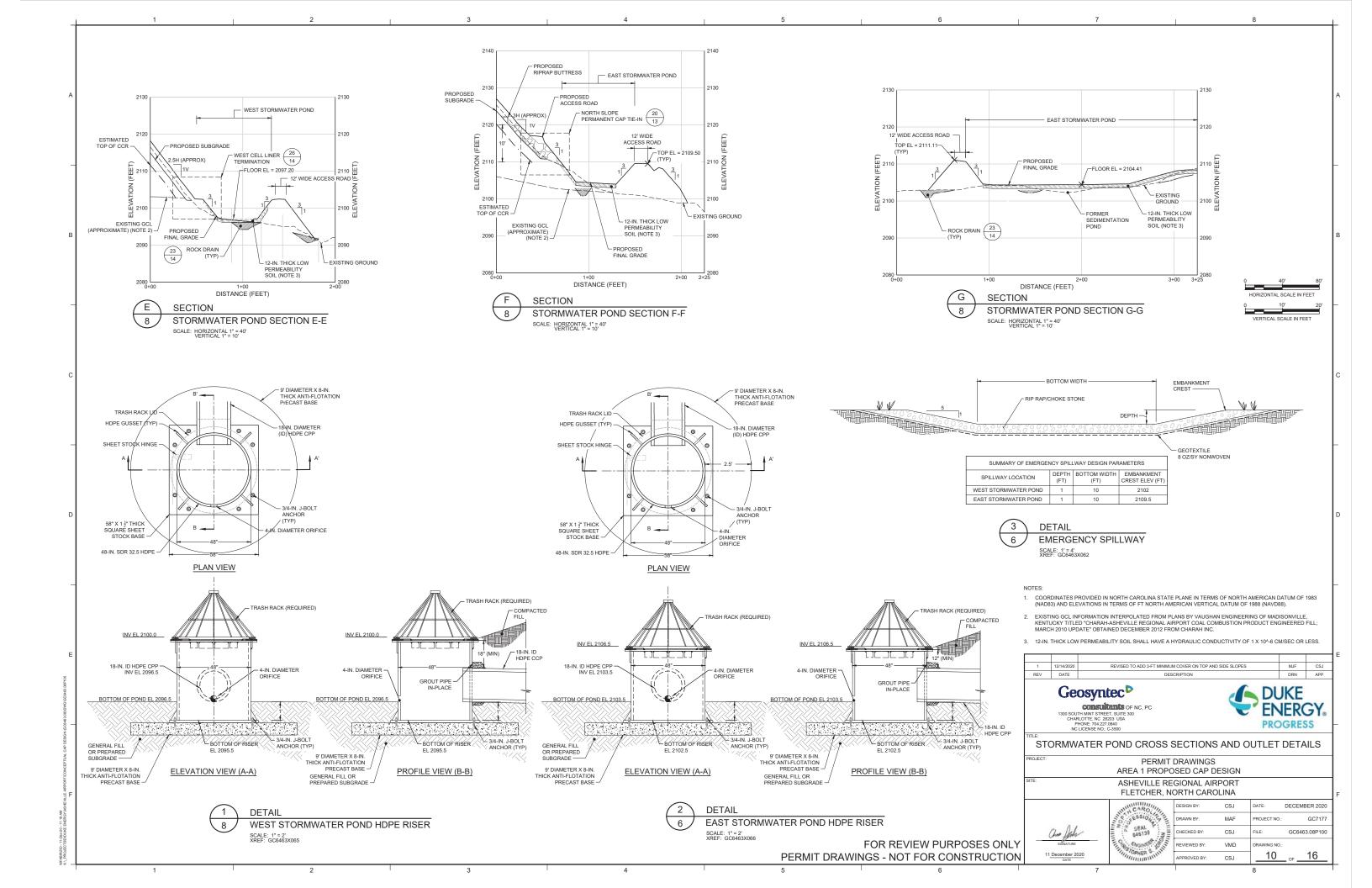


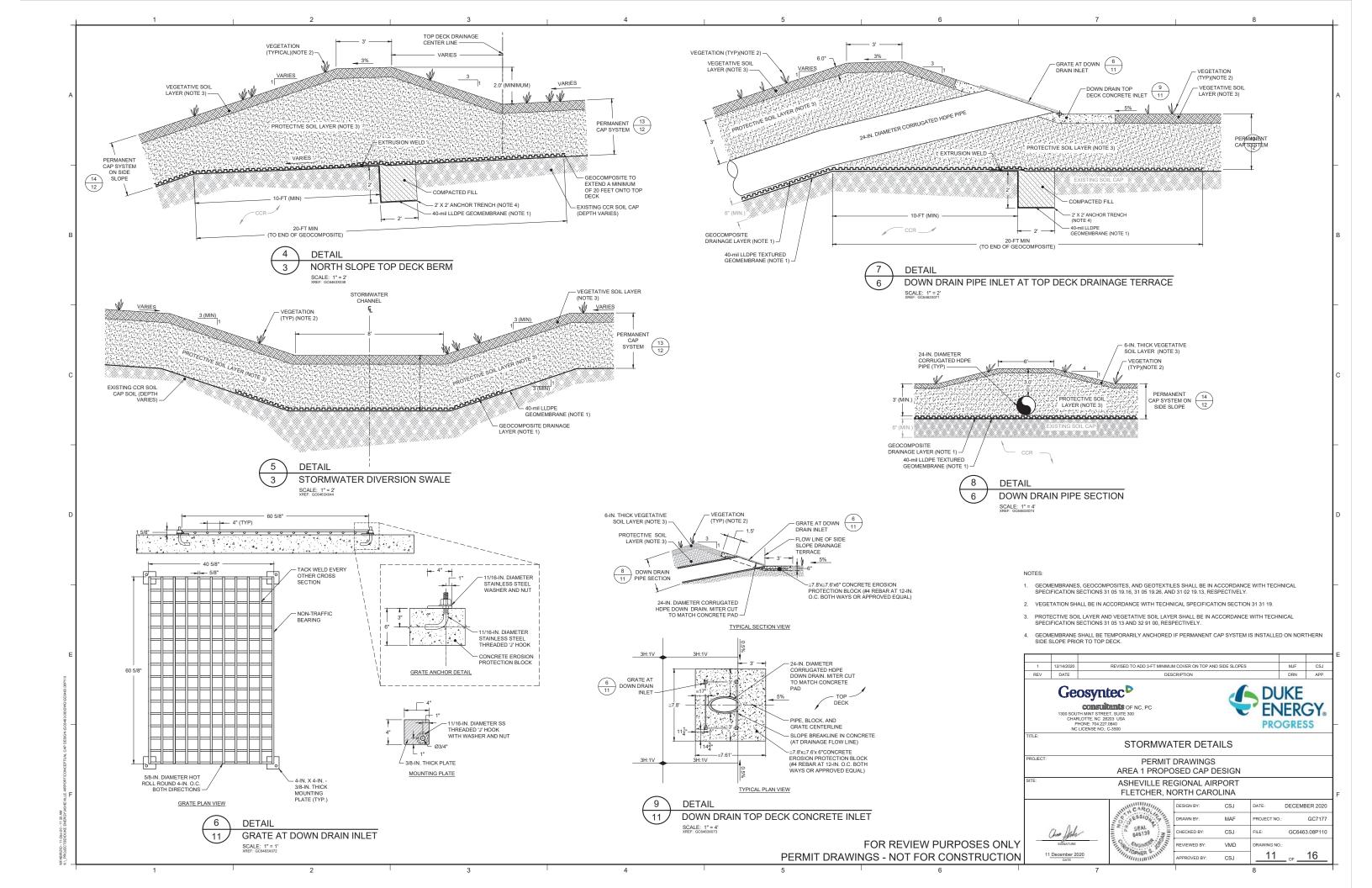


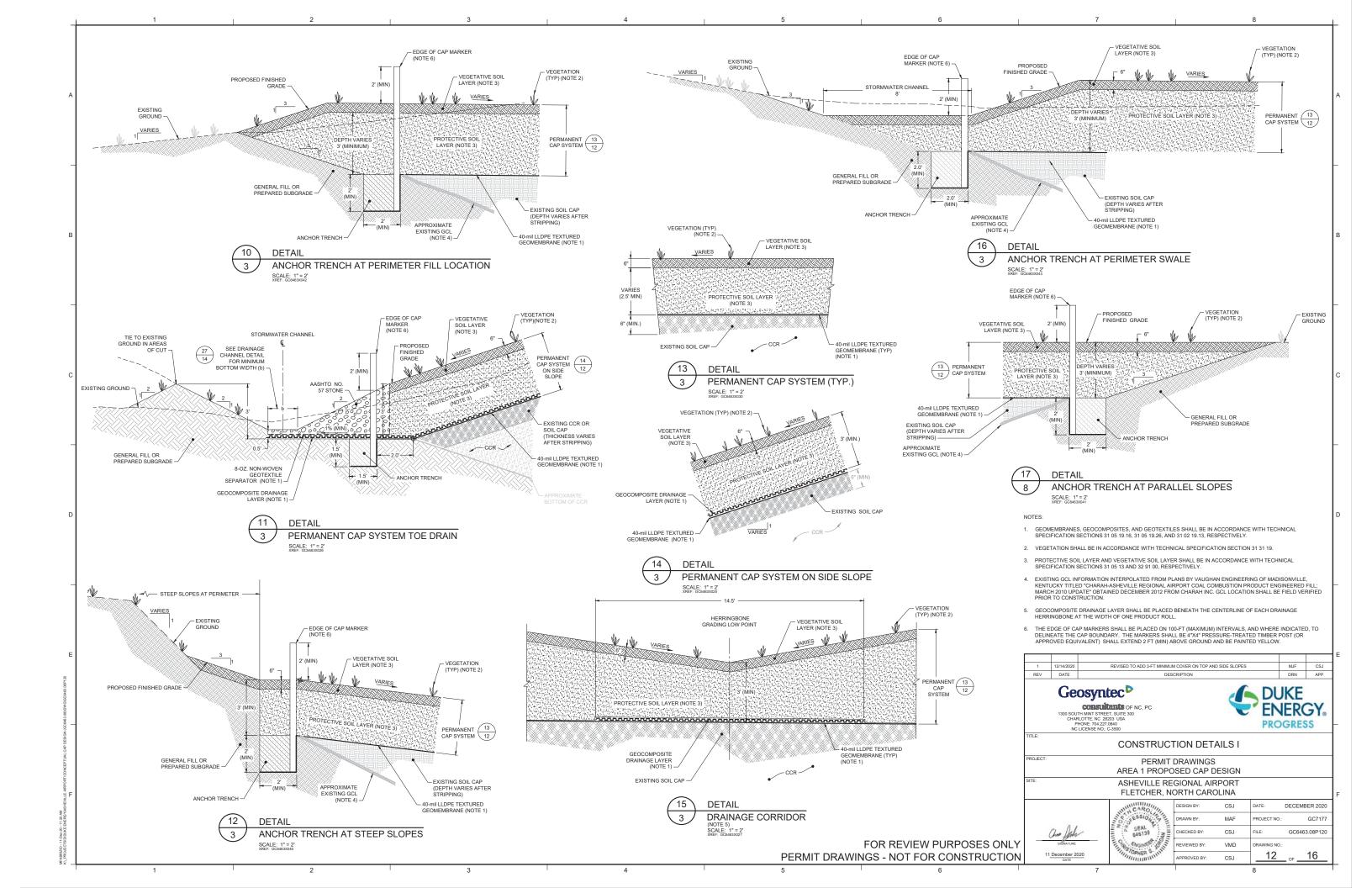


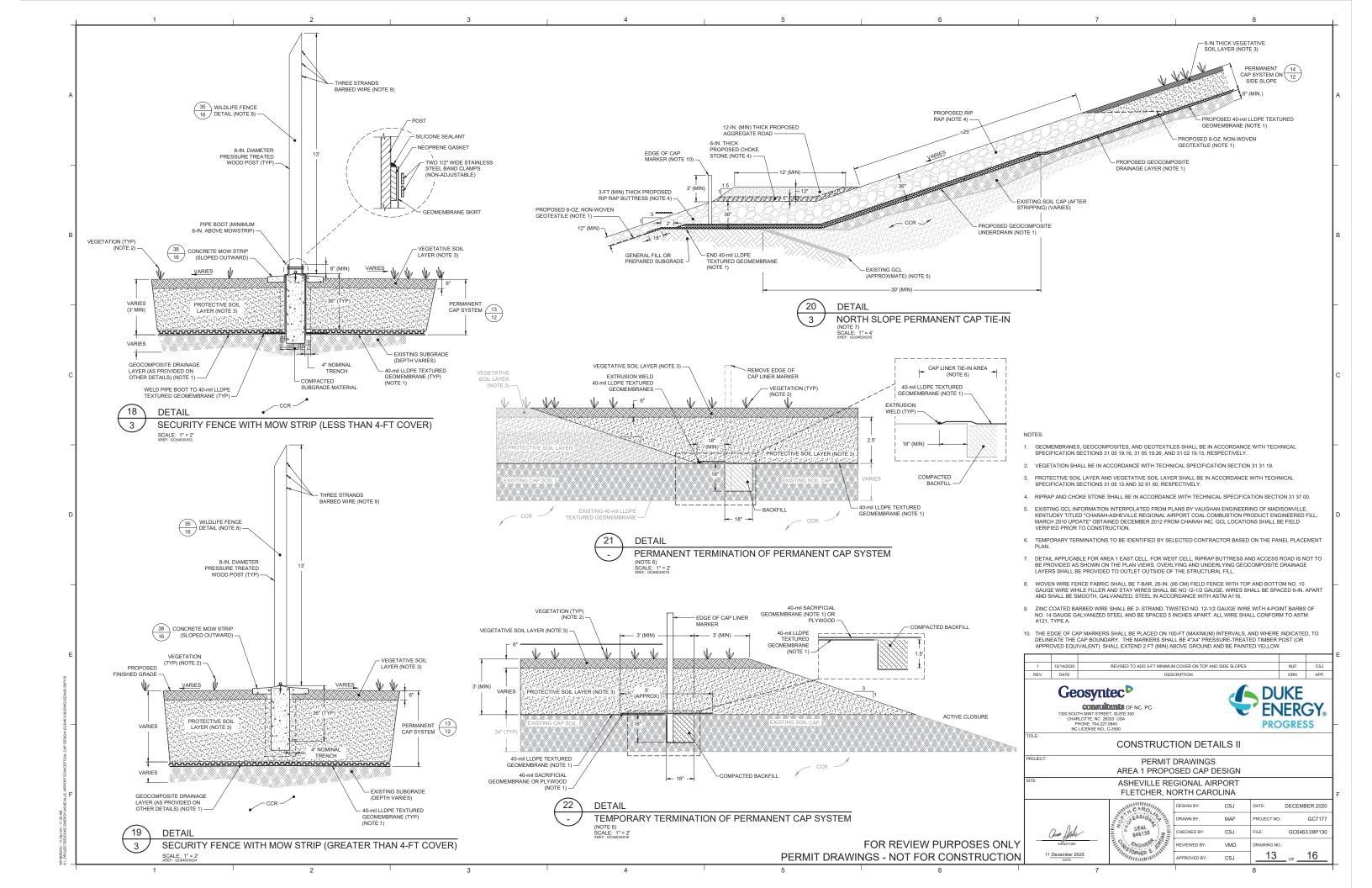


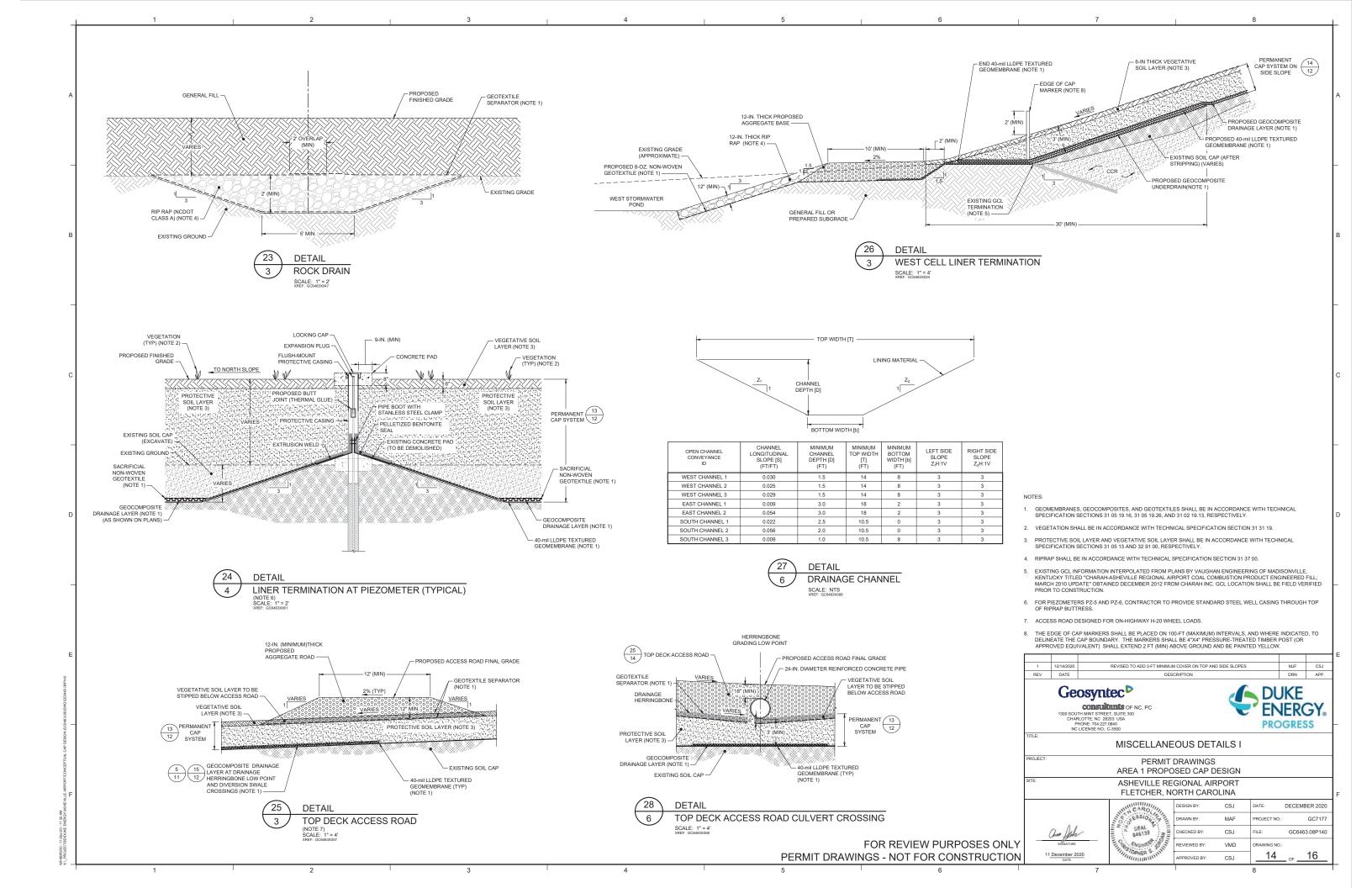


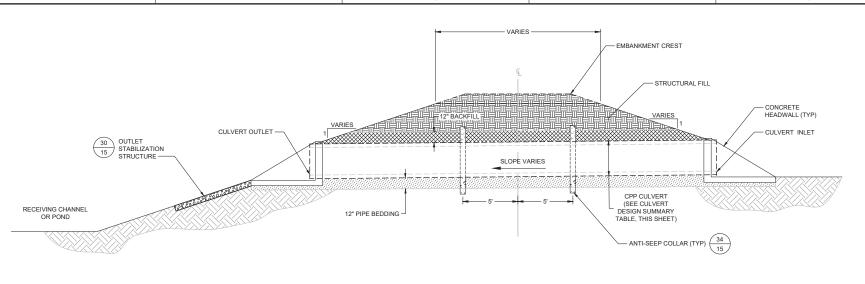






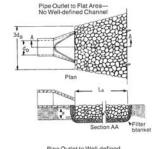






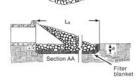
	MATERIAL TYPE	NUMBER OF PIPES	PIPE DIAMETER (IN)	LENGTH (FT)	INLET INVERT ELEVATION (FT)	OUTLET INVERT ELEVATION (FT)	SLOPE (FT/FT)	OVERTOPPING ELEVATION (FT)
EAST POND PRINCIPAL SPILLWAY	HDPE	1	18	108	2103.5	2094.2	0.086	2108.5
WEST POND PRINCIPAL SPILLWAY	HDPE	1	18	65	2096.5	2091.7	.0738	2102
EAST CHANNEL	HDPE	2	18	44	2109.1	2108.5	.0138	2112

DETAIL **CULVERT** SCALE: 1" = 4'



- La is the length of the riprap apron.
- d = 1.5 times the maximum stone diameter but not less than 6".
- than 6".

 3. In a well-defined channel extend the apron up the channel banks to an elevation of 6" above the maximum tailwater depth or to the top of the bank, whichever is less.
- A filter blanket or filter fabric should be installed between the riprap and soil foundation.



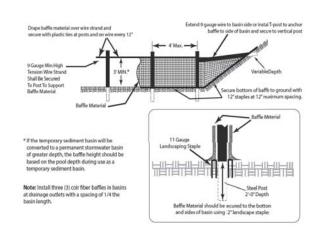
MAINTENANCE NOTE:

1. INSPECT RIPRAP OUTLET STRUCTURES WEEKLY TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MALE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

DISSIPATOR ID	SELECTED RIPRAP CLASS	MEDIAN RIPRAP SIZE (D ₅₀) (IN)	MINIMUM APRON LENGTH (L _A) (FT)	UPSTREAM APRON WIDTH (FT)	DOWNSTREAM APRON WIDTH (W) (FT)
RD-1	В	8	16	8	18
RD-2	В	8	12	6	14
RD-3	В	8	12	6	14
RD-4	В	8	22	11	26
RD-5	1	10	26	12	30
RD-6	В	8	15	10	18
RD-7	В	8	18	10	20
RD-8	В	8	9	6	6
RD-9	В	8	10	10	14
RD-10	В	8	10	10	14

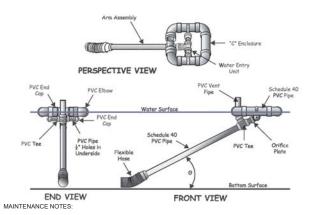
DETAIL

OUTLET STABILIZATION STRUCTURE SCALE: NTS XREF: GC6463X081



- MAINTENANCE NOTE:
 1. Inspect Baffles at least weekly. 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 damaging the baffles during cleanout, and replace if damaged during cleanout operations. Sediment depth should never exceed half the designed storage depth.
- After the contributing drainage area has been properly stabilized, remove all baffle materials and unstable sediment deposits, bring the area to grade, and stabilize it.





12-IN. THICK PROPOSED AGGREGATE ROAD

6-IN. THICK PROPOSED CHOKE STONE

3-FT THICK PROPOSED RIP

PROPOSED GEOCOMPOSITE

DRAINAGE LAYER (NOTE 1) -

GENERAL FILL OR

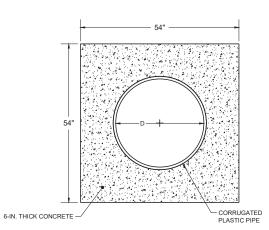
PREPARED SUBGRADE

RAP BUTTRESS (NOTE 2) -

INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND REPAIR IMMEDIATELY AS NEEDED. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASINS DOES NOT HOLD DOWN THE SKIMMER.

- IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE DEBRIS.
- IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMEN.
- 4. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.





24-IN. DIAMETER CORRUGATED HDPE DOWN DRAIN PIPE

CAST-IN-PLACE CONCRETE

PROPOSED 8-OZ. NON-WOVEN GEOTEXTILE (NOTE 1)

ENCASEMENT

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SCALE: 1" = 2' XREF: GC6463X069 (C

CONCRETE ENCASEMENT



- GEOMEMBRANES, GEOCOMPOSITES, AND GEOTEXTILES SHALL BE IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTIONS 31 05 19.16, 31 05 19.26, AND 31 02 19.13, RESPECTIVELY.
- 2. RIPRAP SHALL BE IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 31 37 00.

						ľ
	1	12/14/2020	REVISED TO ADD 3-FT MINIMUM COVER ON TOP AND SIDE SLOPES	MJF	CSJ	ı
F	REV	DATE	DESCRIPTION	DRN	APP	ı

Geosyntec^D

consultants OF NC, PC SOUTH MINT STREET, SUITE 300 CHARLOTTE, NC 28203 USA PHONE: 704.227.0840 NC LICENSE NO.: C-3500



	MISCELLANEOUS DETAILS II
ECT:	PERMIT DRAWINGS
	AREA 1 PROPOSED CAP DESIGN

ASHEVILLE REGIONAL AIRPORT FLETCHER, NORTH CAROLINA







FOR REVIEW PURPOSES ONLY PERMIT DRAWINGS - NOT FOR CONSTRUCTION

