EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

Permit No.	Date	DIN
44-06	January 8, 2015	22723

RECEIVED
January 7, 2015
Solid Waste Section
Asheville Regional Office

TITLE	DWG. NO.
COVER SHEET	
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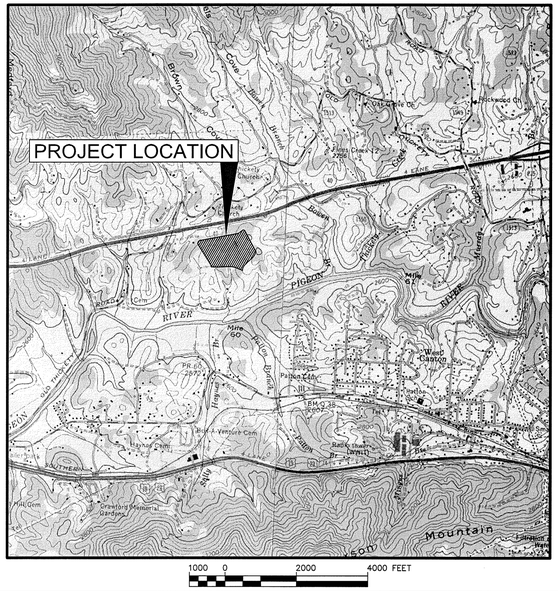
GEOMEMBRANE PANEL LAYOUT	FIGURE 1

LOCATION MAP



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NORTH CAROLINA PROFESSIONAL SEAL 037702 ENGINEER GARY H. COTE, JR.

RECORD DRAWINGS

SYMBOLS

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED	
		NORTH ARROW (MAGNETIC)			STONE WALL			MANHOLE
N		NORTH ARROW (PLAN NORTH)			DRAINAGE COURSE (WITH DIRECTION)			CATCH BASIN
25	25	CONTOUR LINES	SHORE SIDE		EDGE OF WATER			WATER VALVE
25 x 63	25.56	SPOT ELEVATION (GRADE)			WATER ELEVATION (GROUND OR SURFACE)			HYDRANT
		EXISTING GROUND			FENCE LINE (WOOD)			UTILITY POLE
S B		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.			FENCE LINE (WIRE)			CLEAN OUT STRUCTURE
		PROPERTY LINE OR R.O.W.			RETAINING WALL	G	G	UNDERGROUND GAS MAIN
N35°-10'-10"W 251.17'	N35°-10'-10"W 251.17'	PROPERTY LINE W/ BEARING AND DISTANCE			GUARD RAIL	T	T	UNDERGROUND TELEPHONE LINE
	0+00 1+00	CONSTRUCTION BASELINE			BUILDING AND STRUCTURES	E	E	UNDERGROUND ELECTRICAL LINE
		BOUNDARY LINE (State, County, Municipality)		1 2 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)	OE	OE	OVERHEAD ELECTRICAL LINE
		SURVEY MONUMENT		TOP OF SLOPE 2:1	SLOPES (WITH SLOPE RATIO)		12" ACP	SANITARY SEWER, SIZE & TYPE
IF	IF	SURVEY IRON			EDGE OF TRAVELED WAY	FM	8" PVC	FORCE MAIN, SIZE & TYPE
		DRILL HOLE, PK, OR STAKE		C F	CUT OR FILL LINE	W	8" D.I.	WATER MAIN, SIZE & TYPE
		WOODS OR BRUSH LINE		CLL	CLEARING LIMIT LINE		12" RCP	STORM DRAIN, SIZE & TYPE
		INDIVIDUAL TREE (Deciduous)			BITUMINOUS PAVEMENT	UD	8" UD	UNDERDRAIN, SIZE & TYPE
		INDIVIDUAL TREE (Coniferous)			CONCRETE			CULVERT
		TREE, TO BE REMOVED	B-12 MW-12 P-12	B-12 MW-12 P-12	TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER		LT	LEACHATE TRANSPORT LINE
		MARSH AREA	TP-12	TP-12	TEST PIT AND NUMBER		LC	LEACHATE COLLECTION LINE
		BENCHMARK						RAILROAD
							S	SILTATION FENCE
							D	DIVERSION BERM
								STONE CHECK DAM

A.C.C.M.P	ASPHALT COATED C.M.P.
A.C.P.	ASBESTOS CEMENT PIPE
AC	ACRE
AGG	AGGREGATE
ALUM	ALUMINUM
APPD	APPROVED
APPROX	APPROXIMATE
ASB	ASBESTOS
ASPH	ASPHALT
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AZ	AZIMUTH
B.C.C.M.P.	BITUMINOUS COATED C.M.P.
B.M.	BENCH MARK
BIT	BITUMINOUS
BLDG	BUILDING
BOT	BOTTOM
BRG	BEARING
C.B.	CATCH BASIN
CEN	CENTER
CEM. LIN.	CEMENT LINED
C.M.P.	CORRUGATED METAL PIPE
C.O.	CLEAN OUT
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL	CLASS
CONC	CONCRETE
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CTR	CENTER
CY	CUBIC YARD
D	DEGREE OF CURVE (ARC DEF.)
DBL	DOUBLE
DEG OR °	DEGREE
DEPT	DEPARTMENT
DI	DUCTILE IRON
DIA OR ø	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DN	DOWN
DR	DRAIN
DWG	DRAWING
EA	EACH
EG	EXISTING GROUND OR GRADE
ELEC	ELECTRIC
EL	ELEVATION
ELB	ELBOW
EQUIP	EQUIPMENT
EST	ESTIMATED
EXC	EXCAVATE
EXIST	EXISTING
F.G.	FINISH GRADE
FBRGL	FIBERGLASS
FDN	FOUNDATION
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FPS	FEET PER SECOND
FT OR '	FEET
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSEPOWER
HYD	HYDRANT
I.D.	INSIDE DIAMETER
IN OR "	INCHES
INV	INVERT
INV. EL	INVERT ELEVATION
LB	POUND
LC	LEACHATE COLLECTION
LD	LEAK DETECTION
LIN FT.	LINEAR FEET
LOC	LOCATION
LT	LEFT
M.H.	MANHOLE
M.J.	MECHANICAL JOINT
MATL	MATERIAL
MAX	MAXIMUM
MFR	MANUFACTURE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
N.I.T.C.	NOT IN THIS CONTRACT
N.T.S.	NOT TO SCALE
N/F	NOW OR FORMERLY
NO. OR #	NUMBER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P.C.	POINT ON CURVE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENT
PERF	PERFORATED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
R.O.W.	RIGHT OF WAY
RAD	RADIUS
REQD	REQUIRED
RT	RIGHT
RTE	ROUTE
S	SLOPE
SCH	SCHEDULE
SF	SQUARE FEET
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SHT	SHEET
STA	STATION
SY	SQUARE YARD
TAN	TANGENT
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPORARY
TYP	TYPICAL
V	VOLTS
W/	WITH
W/O	WITHOUT
YD	YARD

GENERAL NOTES:

THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES WITH RESPECT TO THE EMPLOYEES OF THE CONTRACTOR AND HIS SUBCONTRACTOR UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PRESENT AND ACQUIRE APPROVAL OF A TEMPORARY EROSION AND SEDIMENT CONTROL PLAN AND DEWATERING PLAN BASED ON THE CONTRACTORS PROPOSED PHASING SEQUENCING.

MATERIAL SPECIFICATIONS:

COMMON BORROW – SECTION 02200 SPECIFICATION
ROADWAY SUBBASE – NCDOT SA AGGREGATE
ROADWAY SURFACE – NCDOT ABC AGGREGATE

#57 STONE – NCDOT #57 AGGREGATE
#78M STONE – NCDOT #78M AGGREGATE
#5 STONE – NCDOT #5 AGGREGATE

COMPACTION – ALL FILL SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 (MODIFIED PROCTOR)

6" HDPE PIPE – SDR 11.0 SOLID
6" HDPE PIPE – SDR 11.0 PERFORATED
12" HDPE PIPE – SDR 11.0 SOLID
12" HDPE PIPE – SDR 11.0 PERFORATED
24" HDPE PIPE – SDR 11.0 SOLID
36" HDPE PIPE – SDR 11.0 PERFORATED

CUSHION GEOTEXTILE – 16 OZ/SY NON-WOVEN GEOTEXTILE, NOCOLON S1600, OR EQUAL
FILTER GEOTEXTILE – MIRAFI 600X, OR EQUAL

GRUBBING:

ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM THE AREA D SOUTH AREA PRIOR TO PLACING ADDITIONAL MATERIAL. ANY TOPSOIL CLAIMED DURING THE GRUBBING OPERATION WILL BE STOCKPILED FOR THE OWNER'S USE. ALL OTHER GRUBBINGS WILL BE DISPOSED OF IN THE EXISTING SPOIL PILE OR AS OUTLINED ON THE PLANS. ALL WORK WILL ABIDE BY NCDOT SPECIFICATION SECTION 200.

SEED AND FERTILIZER:

AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED AND SEEDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 100 LBS PER 1,000 SF OR AS NEEDED BASED ON TESTING

FERTILIZER: GRANULAR FERTILIZER 10,10,10 (N.P.K) 25 LB/1000 SF OR AS NEEDED BASED ON TESTING

SEED:	TALL FESCUE (KY 31)	80 lb/acre
	SERICEA LESPEDEZA	20 lb/acre
	KOBE LESPEDEZA	10 lb/acre
		110 lb/acre

SEEDING WILL OCCUR BETWEEN MAY 1 AND AUG 15; IF NOT, ADD 40 LB/ACRE RYE GRAIN

MULCH – THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

VIEW MARKERS & IDENTIFICATION

SECTION TITLE & NO.
ACCESS ROAD / 3 / C-100
DRAWING WHERE SECTION APPEARS

DETAIL TITLE & LETTER
MANHOLE / A / C-100
DRAWING WHERE DETAIL APPEARS

REV.	BY	DATE	STATUS
	KJN	11/14	RECORD DRAWING
	ASB	8/13	SUBMITTED TO NCDENR

NORTH CAROLINA PROFESSIONAL SEAL 037702 ENGINEER GUY H. COTE, JR.

EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

SYMBOLS AND ABBREVIATIONS

SME
Sevee & Maher Engineers, Inc.
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DESIGN BY: ASB
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DATE: 6/12/2013
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LMN: NONE
CTB: SME-STD

JOB NO. 12121.03 DWG FILE 6DN-SYMSHT

C-100

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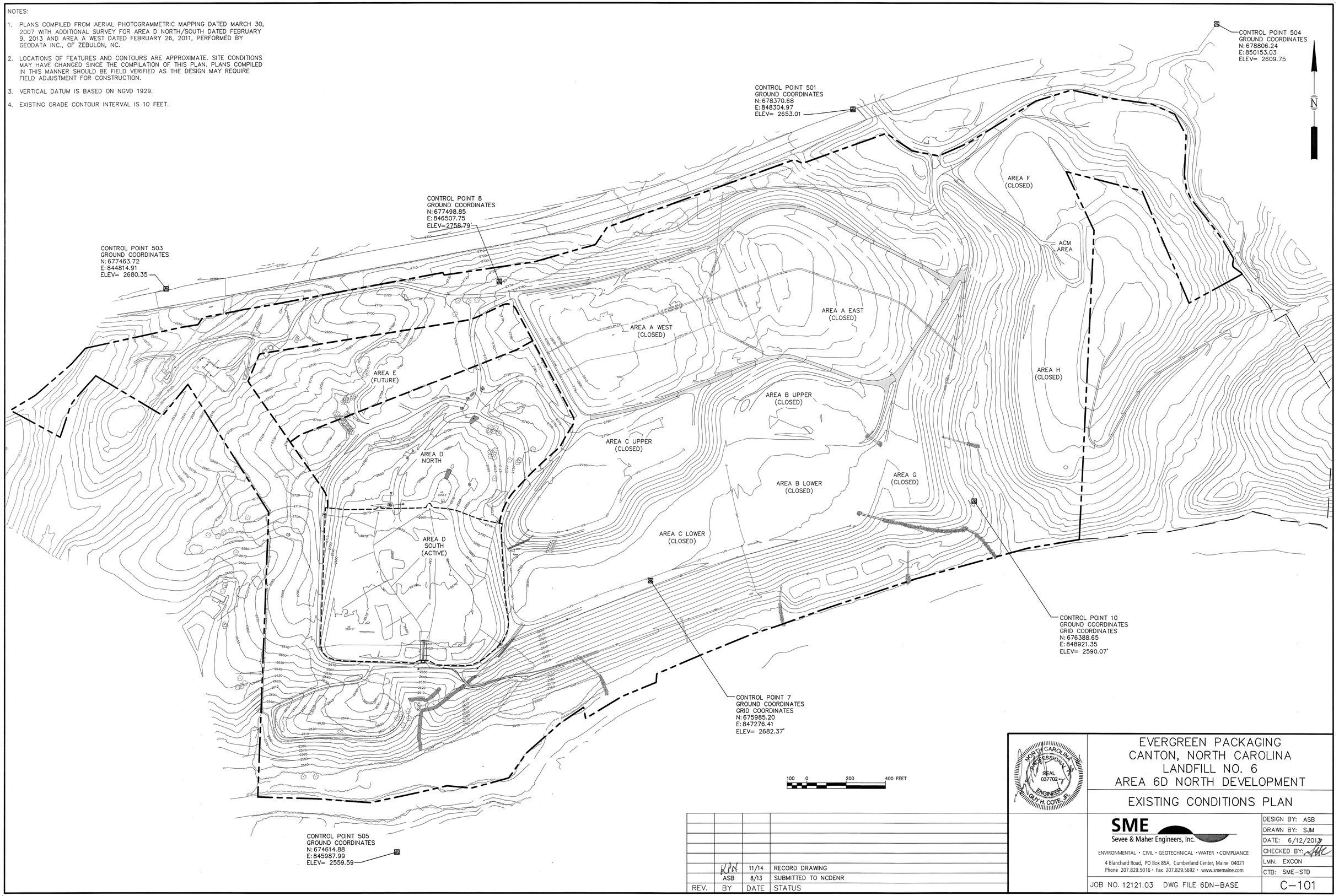
NOTES:

1. PLANS COMPILED FROM AERIAL PHOTOGRAMMETRIC MAPPING DATED MARCH 30, 2007 WITH ADDITIONAL SURVEY FOR AREA D NORTH/SOUTH DATED FEBRUARY 9, 2013 AND AREA A WEST DATED FEBRUARY 26, 2011, PERFORMED BY GEODATA INC., OF ZEBULON, NC.
2. LOCATIONS OF FEATURES AND CONTOURS ARE APPROXIMATE. SITE CONDITIONS MAY HAVE CHANGED SINCE THE COMPILATION OF THIS PLAN. PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED AS THE DESIGN MAY REQUIRE FIELD ADJUSTMENT FOR CONSTRUCTION.
3. VERTICAL DATUM IS BASED ON NGVD 1929.
4. EXISTING GRADE CONTOUR INTERVAL IS 10 FEET.



REV.	BY	DATE	STATUS
	RJH	11/14	RECORD DRAWING
	ASB	8/13	SUBMITTED TO NCDENR

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EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

EXISTING CONDITIONS PLAN

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LMN: EXCON
CTB: SME–STD

JOB NO. 12121.03 DWG FILE 6DN–BASE

C–101

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NOTES:

1. PLANS COMPILED FROM AERIAL PHOTOGRAMMETRIC MAPPING DATED MARCH 30, 2007 WITH ADDITIONAL SURVEY FOR AREA D NORTH/SOUTH DATED FEBRUARY 9, 2013 AND AREA A WEST DATED FEBRUARY 26, 2011, PERFORMED BY GEODATA INC., OF ZEBULON, NC.
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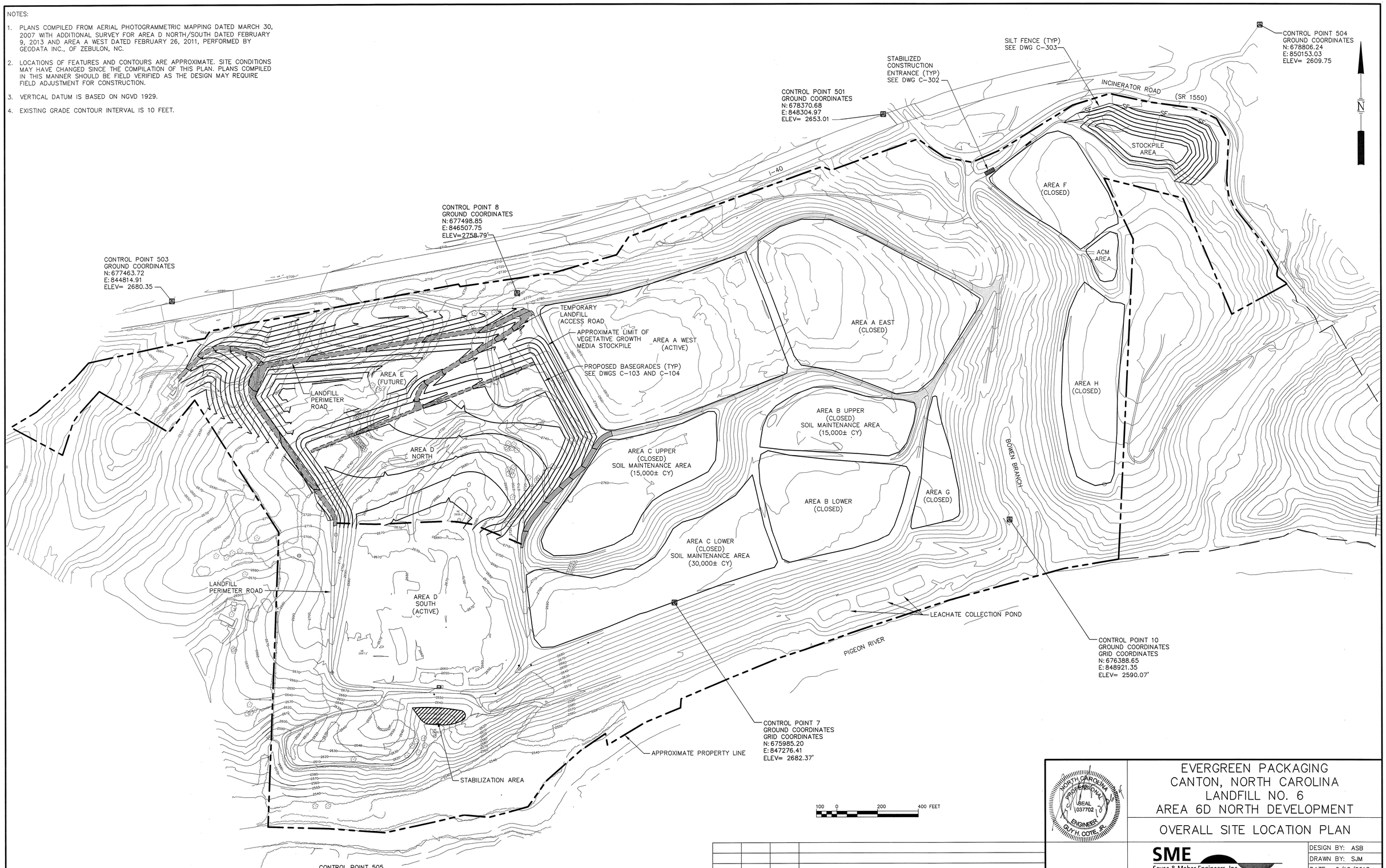

REV.	BY	DATE	STATUS
	LMN	11/14	RECORD DRAWING
	ASB	8/13	SUBMITTED TO NCDENR

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EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

OVERALL SITE LOCATION PLAN

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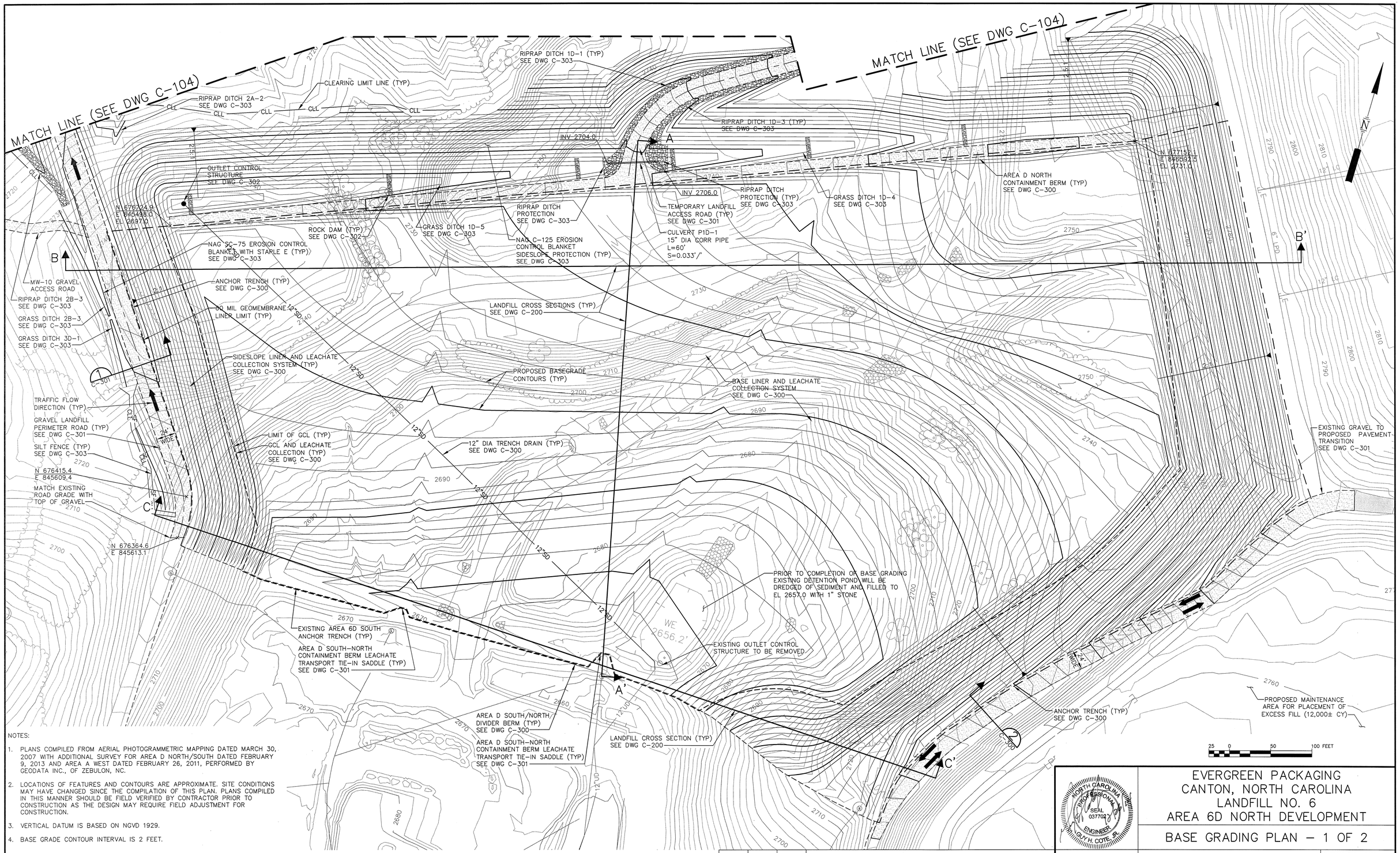
LMN: OVERALL SITE
CTB: SME-STD

JOB NO. 12121.03 DWG FILE 6DN-BASE

C-102



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3. VERTICAL DATUM IS BASED ON NGVD 1929.
4. BASE GRADE CONTOUR INTERVAL IS 2 FEET.

REV.	BY	DATE	STATUS
	KJN	11/14	RECORD DRAWING
	ASB	8/13	SUBMITTED TO NCDENR

NORTH CAROLINA PROFESSIONAL SEAL 037702 ENGINEER GUY H. COTE, JR.

EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

BASE GRADING PLAN – 1 OF 2

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DATE: 6/12/2013
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LMN: BASEGRADE-S
CTB: SME-STD

JOB NO. 12121.03 DWG FILE 6DN-BASE

C-103

NOTES:

1. PLANS COMPILED FROM AERIAL PHOTOGRAMMETRIC MAPPING DATED MARCH 30, 2007 WITH ADDITIONAL SURVEY FOR AREA D NORTH/SOUTH DATED FEBRUARY 9, 2013 AND AREA A WEST DATED FEBRUARY 26, 2011, PERFORMED BY GEODATA INC., OF ZEBULON, NC.
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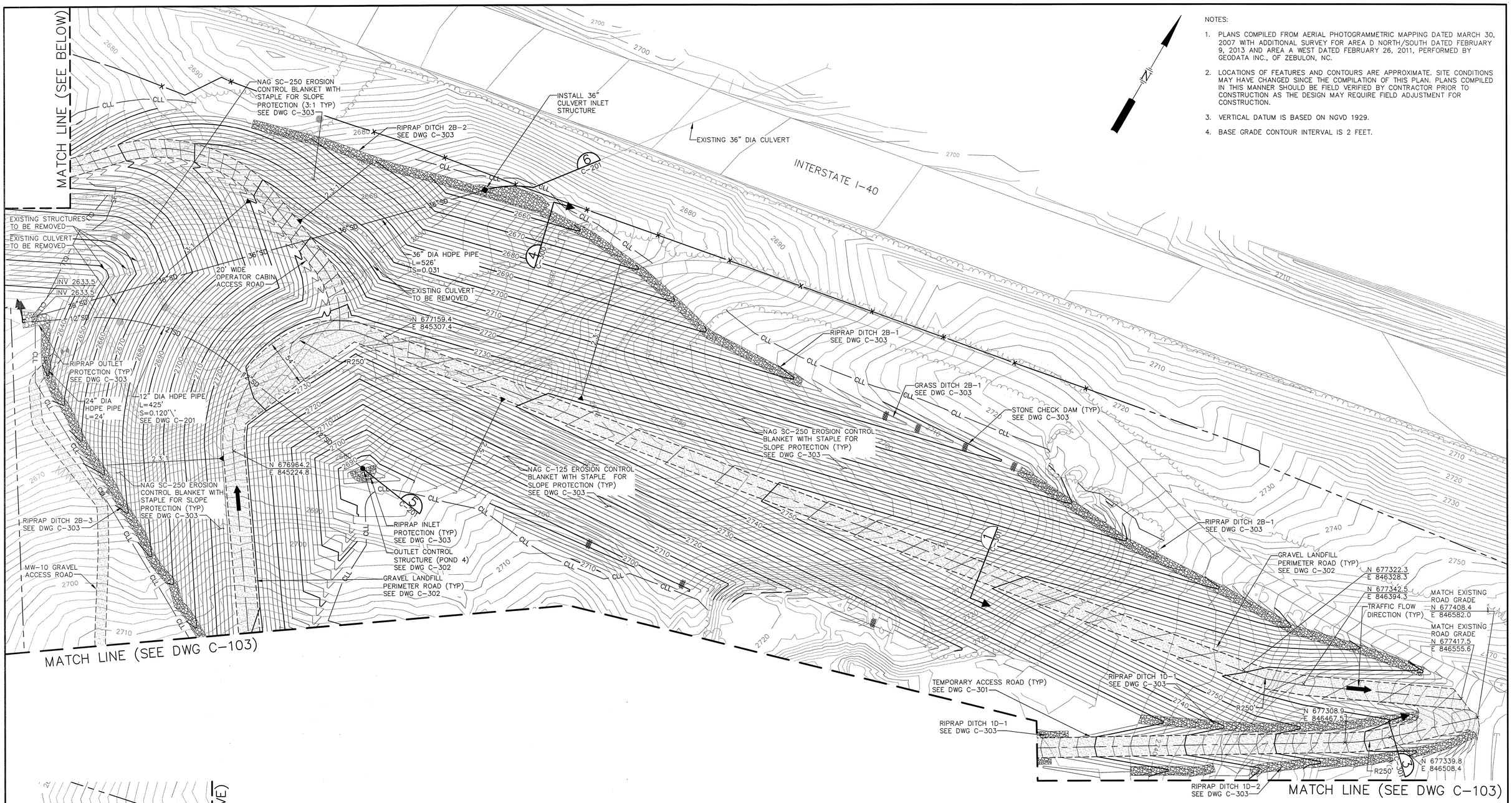

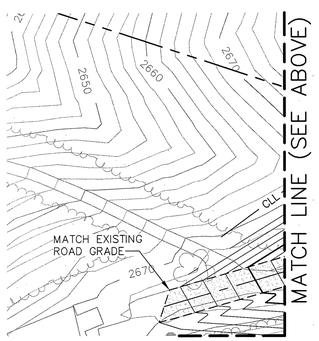

25 0 50 100 FEET

REV.	BY	DATE	STATUS
	KPN	11/14	RECORD DRAWING
	KPN	4/14	CHANGE ORDER NO. 1 REVISION
	ASB	8/13	SUBMITTED TO NCDENR

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EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

BASE GRADING PLAN – 2 OF 2

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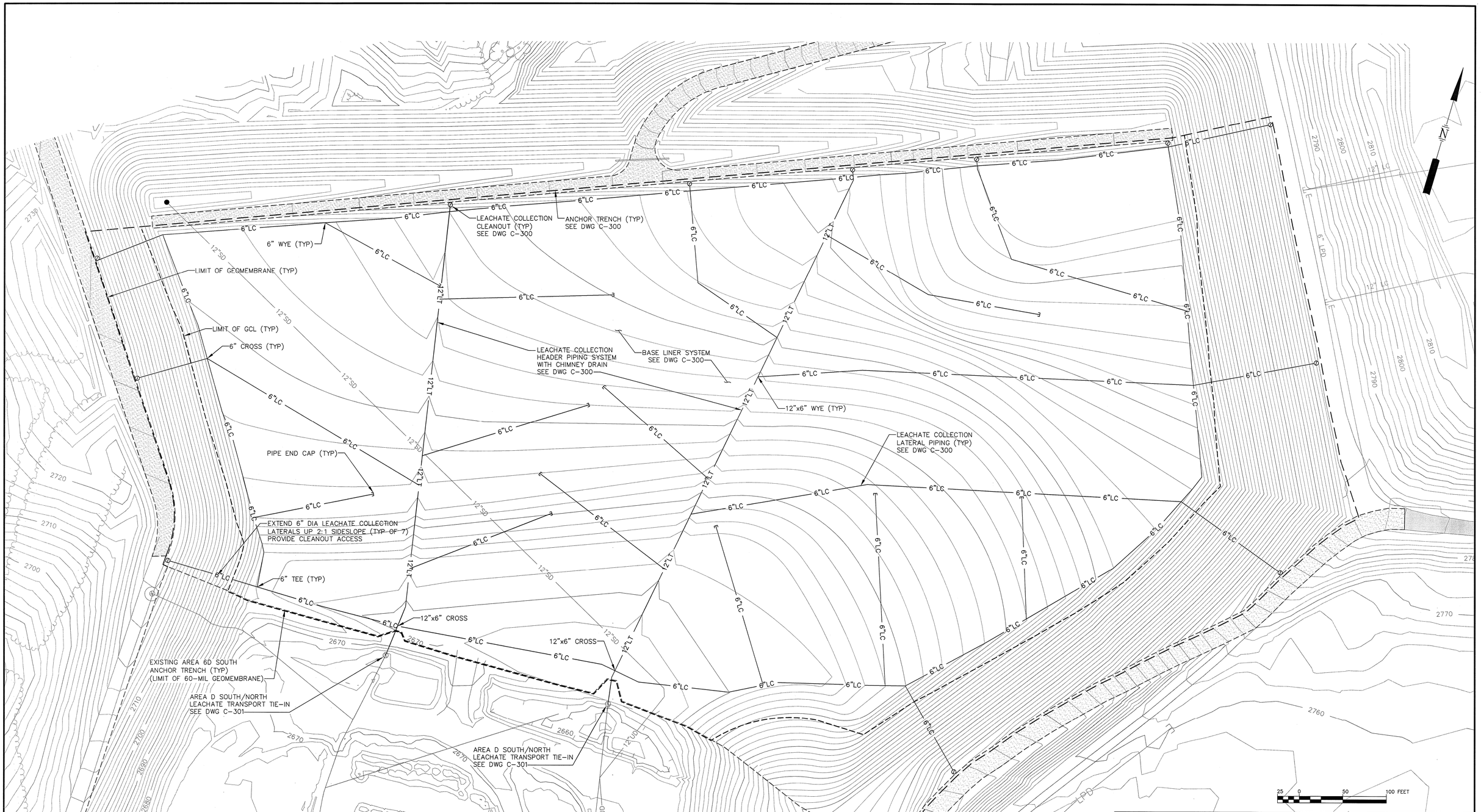
LMN: BASEGRADE-N
CTB: SME-STD

JOB NO. 12121.03 DWG FILE 6DN-BASE

C-104



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3. VERTICAL DATUM IS BASED ON NGVD 1929.
4. BASE GRADE CONTOUR INTERVAL IS 2 FEET.

REV.	BY	DATE	STATUS
	KPN	11/14	RECORD DRAWING
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NORTH CAROLINA PROFESSIONAL SEAL 037702 ENGINEER GUY H. COTE, JR.

EVERGREEN PACKAGING CANTON, NORTH CAROLINA LANDFILL NO. 6 AREA 6D NORTH DEVELOPMENT

LEACHATE COLLECTION PIPING PLAN

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DATE: 6/12/2013
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LMN: LCPIPE
CTB: SME-STD

JOB NO. 12121.03 DWG FILE 6DN-BASE

C-105

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NOTES:

1. PLANS COMPILED FROM AERIAL PHOTOGRAMMETRIC MAPPING DATED MARCH 30, 2007 WITH ADDITIONAL SURVEY FOR AREA D NORTH/SOUTH DATED FEBRUARY 9, 2013 AND AREA A WEST DATED FEBRUARY 26, 2011, PERFORMED BY GEODATA INC., OF ZEBULON, NC.
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3. VERTICAL DATUM IS BASED ON NGVD 1929.
4. EXISTING GRADE CONTOUR INTERVAL IS 10 FEET.

REV.	BY	DATE	STATUS
	KJN	11/14	RECORD DRAWING
	ASB	8/13	SUBMITTED TO NCDENR

NORTH CAROLINA PROFESSIONAL SEAL 037702 ENGINEER GARY H. COTE, JR.

EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

FINAL GRADING PLAN

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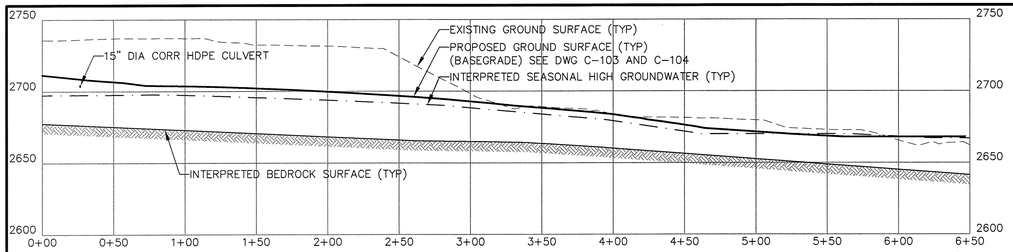
DRAWN BY: SJM
DATE: 6/12/2013
CHECKED BY: GHC
LMN: FGRADE
CTB: SME–STD

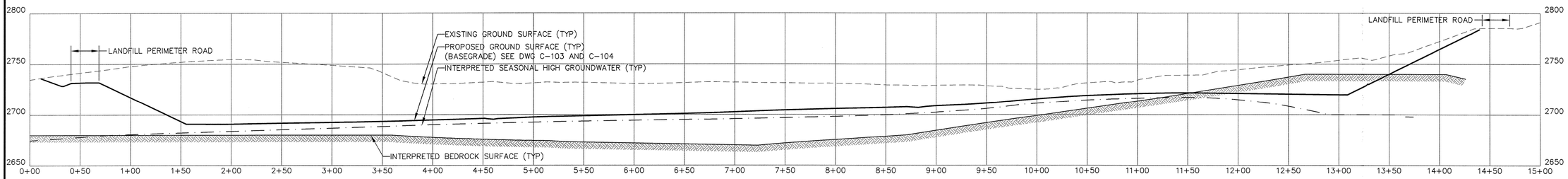
JOB NO. 12121.03 DWG FILE 6DN–BASE

C–106

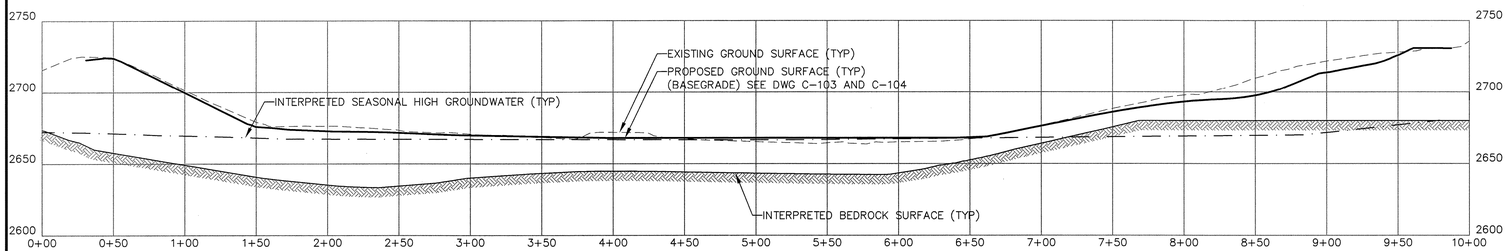
\\Sharenet-01\Projects\C-06-H\cad\Plan\Dwg\6DN-BASE.dwg, 12/4/2014 4:43:12 PM, sjm



SECTION A–A'



SECTION B–B'



SECTION C–C'

NOTES:

1. FOR CROSS SECTION AND PROFILE LOCATIONS, SEE DRAWING C-103 AND C-104.
2. EXISTING GROUND ELEVATIONS COMPILED FROM AERIAL PHOTOGRAMMETRIC MAPPING DATED MARCH 30, 2007 WITH ADDITIONAL SURVEY FOR AREA D NORTH/SOUTH DATED FEBRUARY 9, 2013 AND AREA A WEST DATED FEBRUARY 26, 2011, PERFORMED BY GEODATA INC., OF ZEBULON, NC.
3. VERTICAL DATUM IS BASED ON NGVD 1929.

25 0 50 100 FEET (HORZ)
25 0 50 100 FEET (VERT)

REV.	BY	DATE	STATUS
	KN	11/14	RECORD DRAWING
	ASB	8/13	SUBMITTED TO NCDENR

NORTH CAROLINA PROFESSIONAL SEAL 037700 ENGINEER GUY H COTE, JR.

EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

LANDFILL CROSS SECTIONS

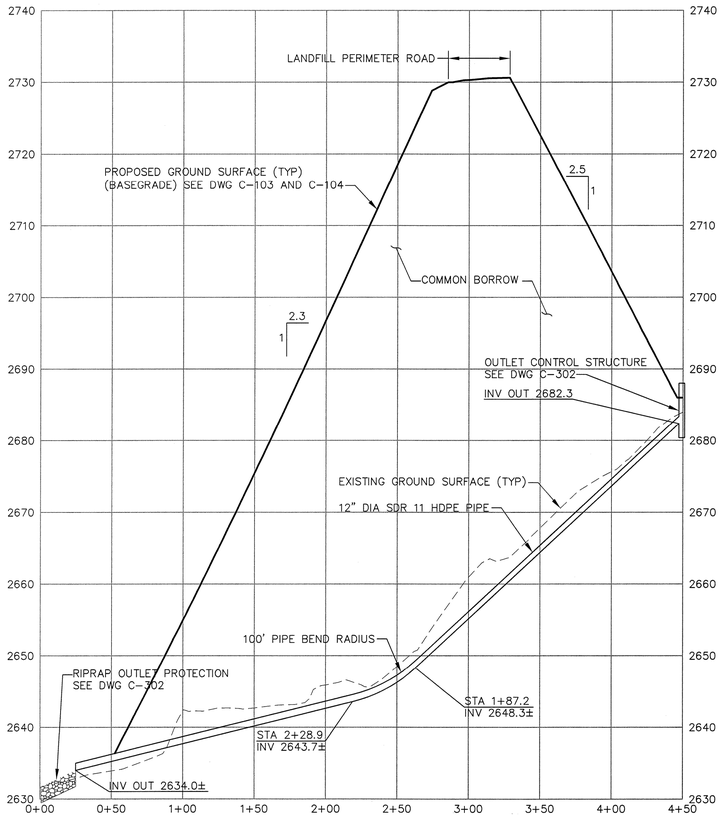
SME
Sevee & Maher Engineers, Inc.
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

DESIGN BY: ASB
DRAWN BY: SJM
DATE: 7/23/2013
CHECKED BY:
LMN: NONE
CTB: SME–STD

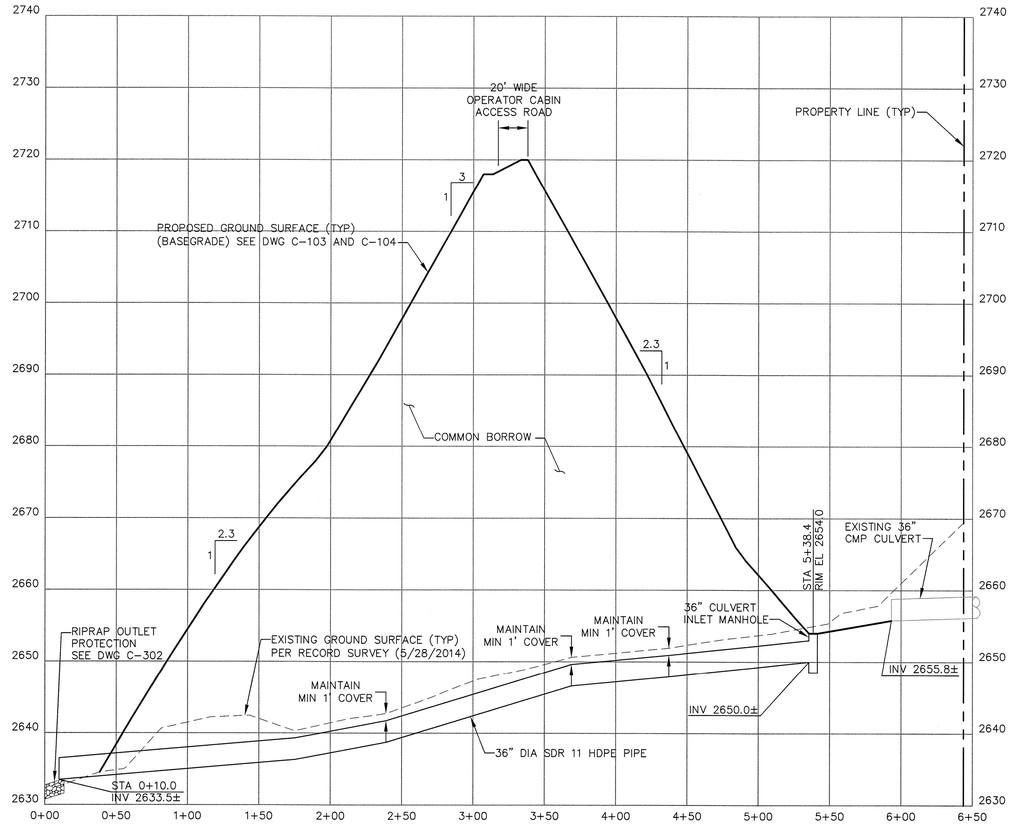
JOB NO. 12121.03 DWG FILE 6DN–XSEC–PROF

C–200

\\Maxwell\S$\Proj\NC\56-nl\cad\Dwg\6DN-XSEC-PROF.dwg, 11/20/2014 9:43:53 AM, gm



12" DIA SDR 11 HDPE PIPE PROFILE (5) C-104



36" DIA SDR 11 HDPE PIPE PROFILE (6) C-104

25 0 50 100 FEET (HORZ)
5 0 10 20 FEET (VERT)

NOTES:

1. FOR CROSS SECTION AND PROFILE LOCATIONS, SEE DRAWING C-103 AND C-104.
2. EXISTING GROUND ELEVATIONS COMPILED FROM AERIAL PHOTOGRAMMETRIC MAPPING DATED MARCH 30, 2007 WITH ADDITIONAL SURVEY FOR AREA D NORTH/SOUTH DATED FEBRUARY 9, 2013 AND AREA A WEST DATED FEBRUARY 26, 2011, PERFORMED BY GEODATA INC., OF ZEBULON, NC.
3. VERTICAL DATUM IS BASED ON NGVD 1929.

REV.	BY	DATE	STATUS
	KPN	11/14	RECORD DRAWING
	KPN	4/14	CHANGE ORDER NO. 1 REVISION
	ASB	8/13	SUBMITTED TO NCDENR

NORTH CAROLINA PROFESSIONAL SEAL 037702 ENGINEER GUY H. COTE, JR.

EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

STORMDRAIN PROFILES

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DESIGN BY: ASB
DRAWN BY: SJM
DATE: 7/23/2013
CHECKED BY:
LMN: NONE
CTB: SME-STD

JOB NO. 12121.03 DWG FILE 6DN-XSEC-PROF

C-201

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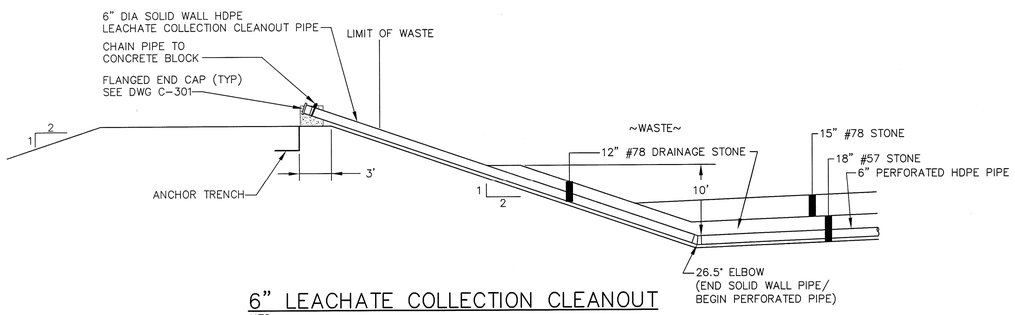
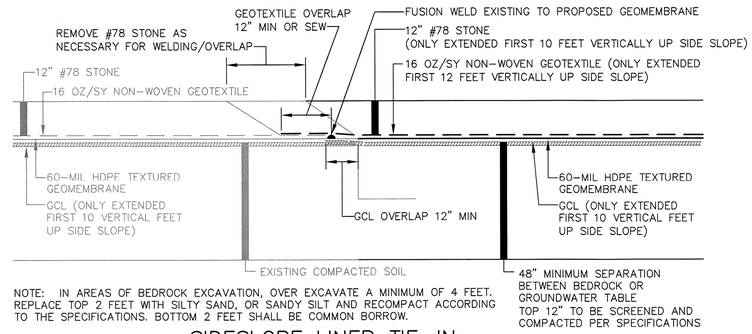
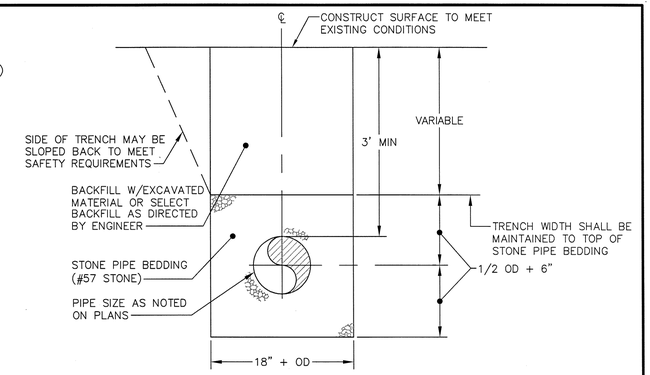


6" LEACHATE COLLECTION CLEANOUT
NTS

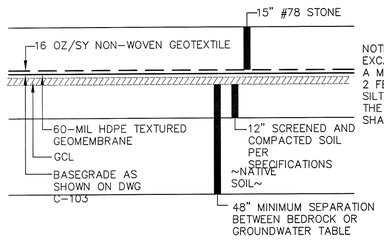


NOTE: IN AREAS OF BEDROCK EXCAVATION, OVER EXCAVATE A MINIMUM OF 4 FEET. REPLACE TOP 2 FEET WITH SILTY SAND, OR SANDY SILT AND RECOMPACT ACCORDING TO THE SPECIFICATIONS. BOTTOM 2 FEET SHALL BE COMMON BORROW.

SIDESLOPE LINER TIE-IN
NTS

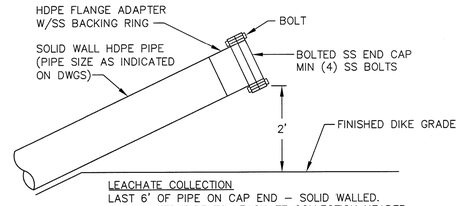


PIPE TRENCH DETAIL
NTS



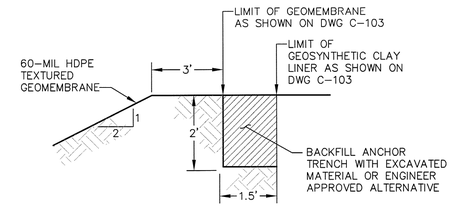
NOTE: IN AREAS OF BEDROCK EXCAVATION, OVER EXCAVATE A MINIMUM OF 4 FEET. REPLACE TOP 2 FEET WITH SILTY SAND, OR SANDY SILT AND RECOMPACT ACCORDING TO THE SPECIFICATIONS. BOTTOM 2 FEET SHALL BE COMMON BORROW.

BASE LINER AND LEACHATE COLLECTION
NTS

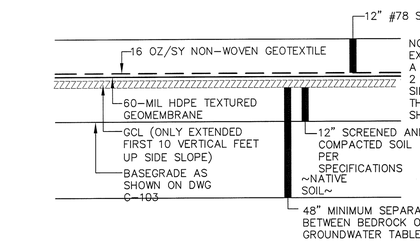


LEACHATE COLLECTION
LAST 6' OF PIPE ON CAP END – SOLID WALLED. PERFORATED PIPE TO LEACHATE COLLECTION HEADER.

FLANGED END CAP
NTS

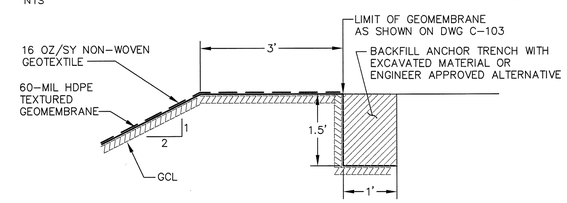


ANCHOR TRENCH
NTS

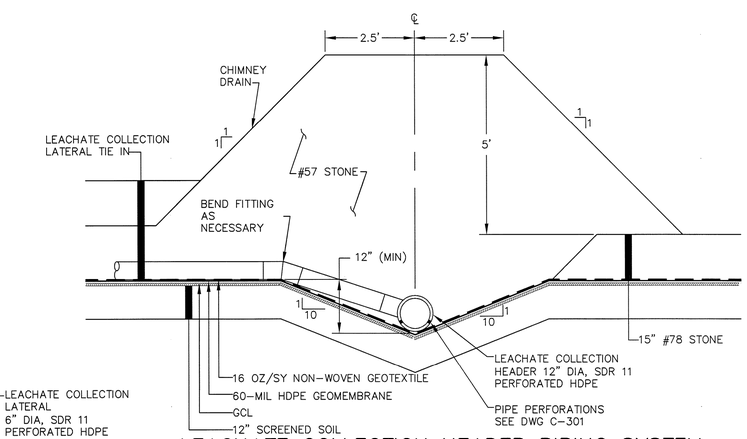


NOTE: IN AREAS OF BEDROCK EXCAVATION, OVER EXCAVATE A MINIMUM OF 4 FEET. REPLACE TOP 2 FEET WITH SILTY SAND, OR SANDY SILT AND RECOMPACT ACCORDING TO THE SPECIFICATIONS. BOTTOM 2 FEET SHALL BE COMMON BORROW.

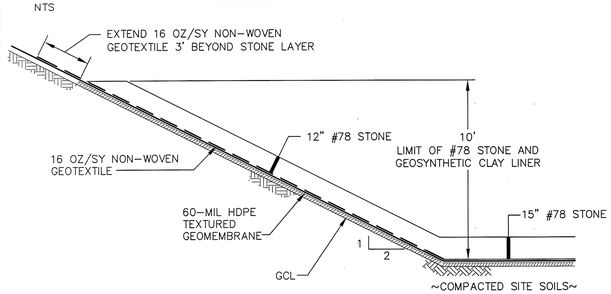
SIDESLOPE LINER AND LEACHATE COLLECTION
NTS



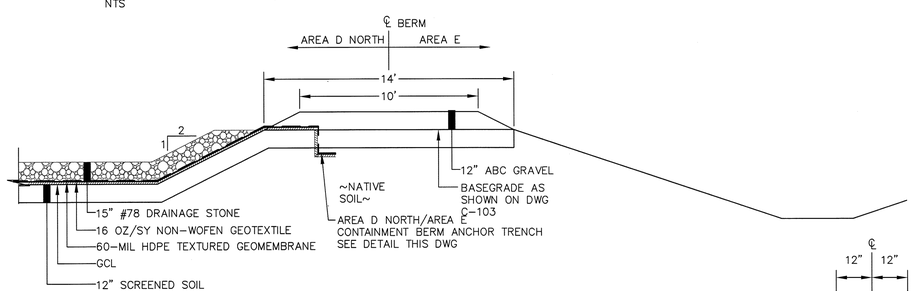
AREA D NORTH/AREA E CONTAINMENT BERM ANCHOR TRENCH
NTS



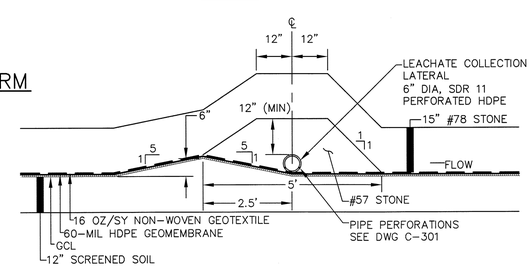
LEACHATE COLLECTION HEADER PIPING SYSTEM WITH CHIMNEY DRAIN
NTS



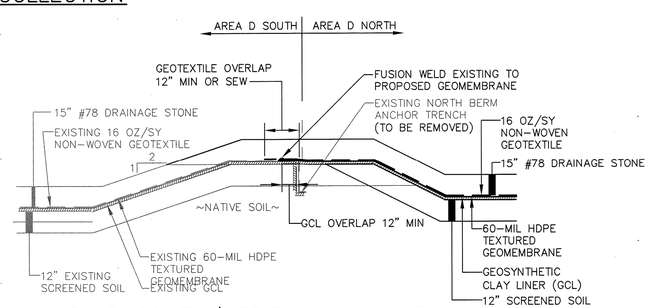
GCL AND LEACHATE COLLECTION
NTS



AREA D NORTH CONTAINMENT BERM
NTS



LEACHATE COLLECTION LATERAL PIPING SYSTEM
NTS



AREA D SOUTH/NORTH CONTAINMENT BERM
NTS

NOTE: PIPE PERFORATIONS SHALL BE 3/8" DIAMETER, 2 ROWS, 6" O.C. MAX., HOLES FACE DOWN

PIPE PERFORATIONS
NTS

REV.	BY	DATE	STATUS
	KJN	11/14	RECORD DRAWING
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 037701 GUY H. COTE, JR.

EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

SECTIONS AND DETAILS

SME
Sevee & Maher Engineers, Inc.
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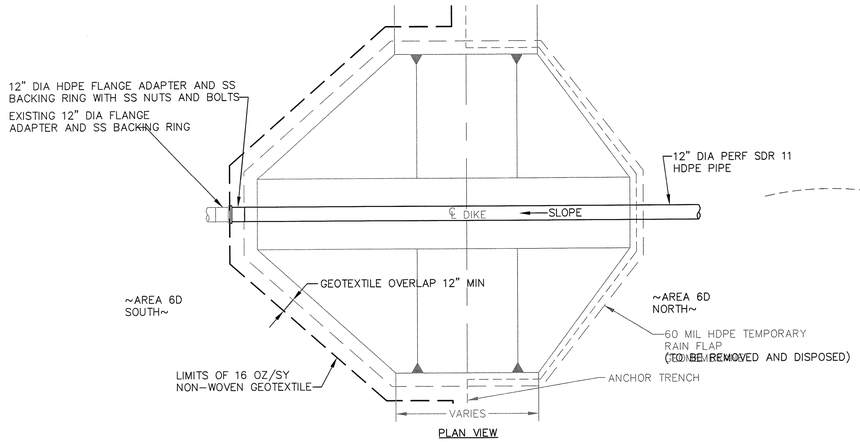
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

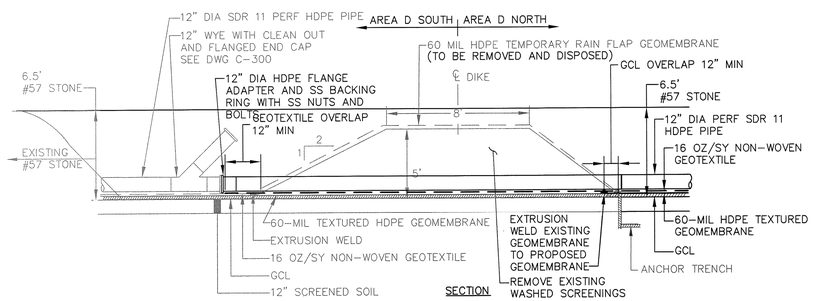
DESIGN BY: ASB
DRAWN BY: SJM
DATE: 6/12/2013
CHECKED BY: [illegible]
LMN: NONE
CTB: SME-STD

JOB NO. 12121.03 DWG FILE 6DN-DETAILS

C-300



PLAN VIEW



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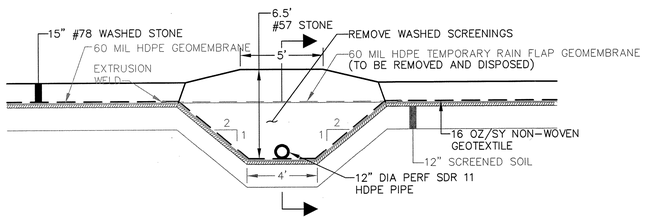
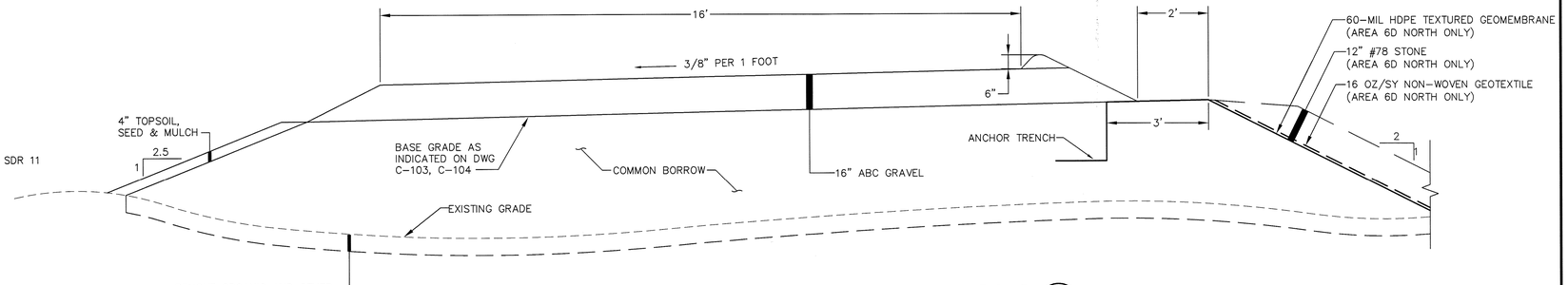


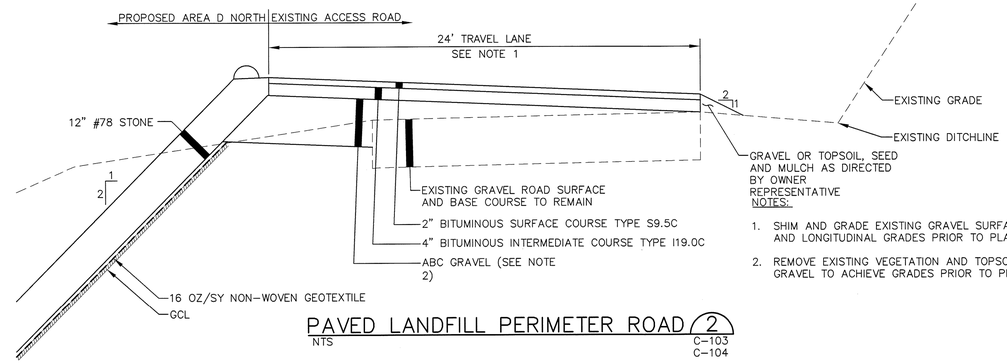
AREA D SOUTH – NORTH CONTAINMENT BERM LEACHATE TRANSPORT TIE-IN SADDLE

NTS



GRAVEL LANDFILL PERIMETER ROAD (1)

NTS C-103 C-104

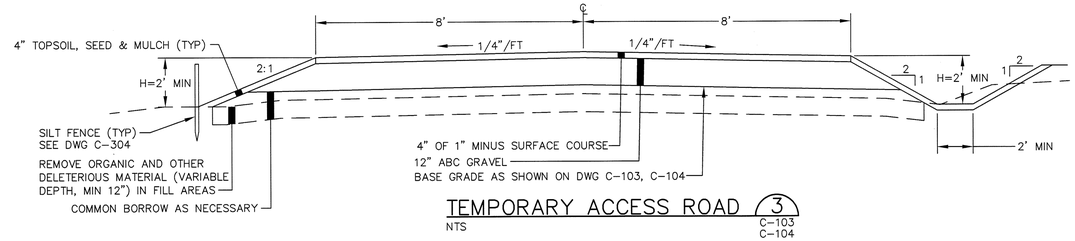


NOTES:

1. SHIM AND GRADE EXISTING GRAVEL SURFACE TO ACHIEVE CROSS SLOPE AND LONGITUDINAL GRADES PRIOR TO PLACING BITUMINOUS PAVEMENT.
2. REMOVE EXISTING VEGETATION AND TOPSOIL AND REPLACE WITH ABC GRAVEL TO ACHIEVE GRADES PRIOR TO PLACEMENT OF PAVEMENT.

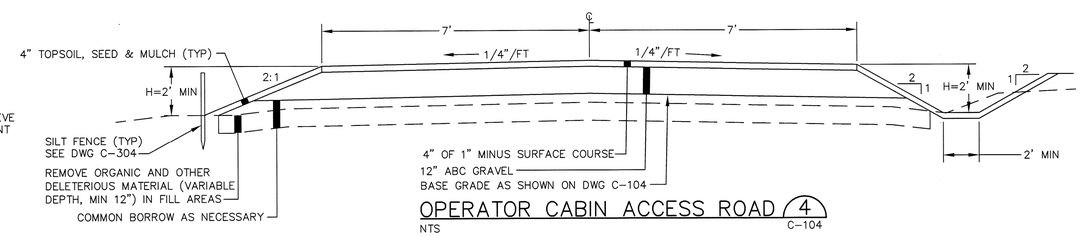
PAVED LANDFILL PERIMETER ROAD (2)

NTS C-103 C-104



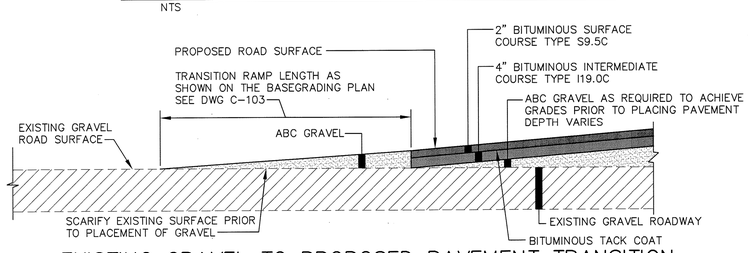
TEMPORARY ACCESS ROAD (3)

NTS C-103 C-104



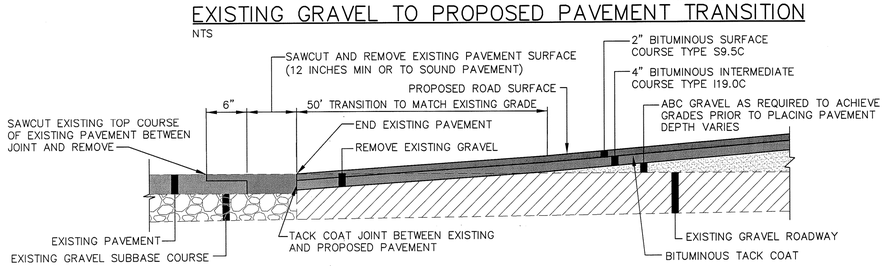
OPERATOR CABIN ACCESS ROAD (4)

NTS C-104



EXISTING GRAVEL TO PROPOSED PAVEMENT TRANSITION

NTS



EXISTING PAVEMENT TO PROPOSED PAVEMENT TRANSITION

NTS

REV.	BY	DATE	STATUS
	KSN	11/14	RECORD DRAWING
	ASB	8/13	SUBMITTED TO NCDENR

NORTH CAROLINA PROFESSIONAL SEAL 037702 ENGINEER GUY H. COTE, JR.

EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

SECTIONS AND DETAILS

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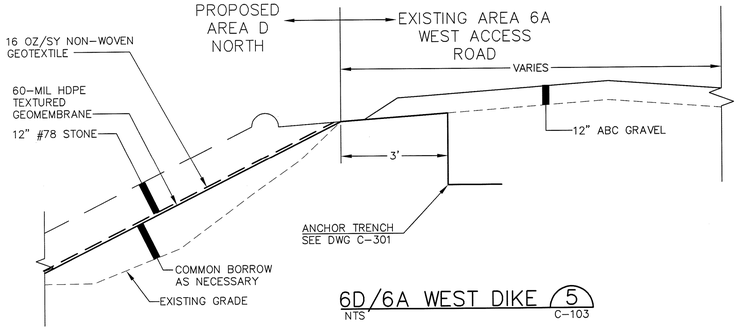
DESIGN BY: ASB
DRAWN BY: SJM
DATE: 6/12/2013
CHECKED BY:
LMN: NONE
CTB: SME-STD

JOB NO. 12121.03 DWG FILE 6DN-DETAILS

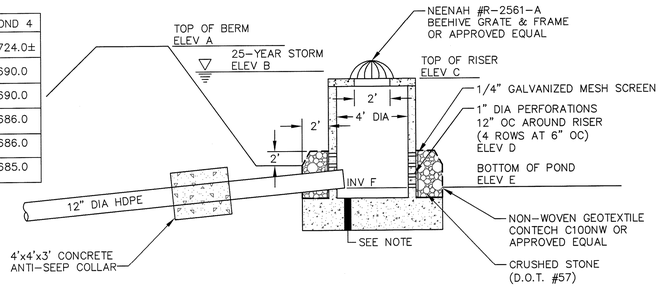
C-301

\\Maineworks\Bridge\NCSolid Waste\Dwg\6DN\SECTIONS.Dwg, 11/5/2014 8:51:40 AM, sjm



6D/6A WEST DIKE (5)
NTS C-103

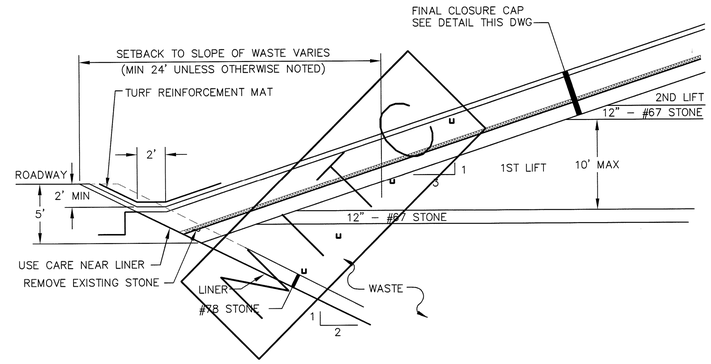
ELEV	POND 3	POND 4
A	2697.0	2724.0±
B	2693.4	2690.0
C	2693.0	2690.0
D	2690.5	2686.0
E	2690.5	2686.0
F	2689.5	2685.0



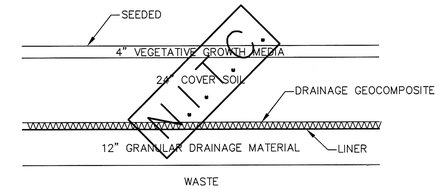
NOTE:

SHOP DRAWINGS: SUBMIT FOR REVIEW SHOP DRAWINGS OF ALL PRECAST UNITS. MANUFACTURER'S INFORMATION SHALL BE SUBMITTED FOR JOINT SEALANTS AND WATERPROOFING. MANUFACTURESS SHALL PROVIDE ANTI-FLOATATION DESIGN SHOP DRAWINGS AND CALCULATIONS, INCLUDING ANY EXTENDED BASE SLABS AS NECESSARY, FOR PROPOSED MANHOLES. MANUFACTURER SHALL ASSUME GROUNDWATER LEVELS EQUAL TOP OF GROUND ELEVATIONS AND PROVIDE FOR A 1.2 FACTOR OF SAFETY AGAINST FLOATATION.

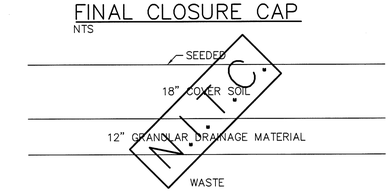
OUTLET CONTROL STRUCTURE
NTS



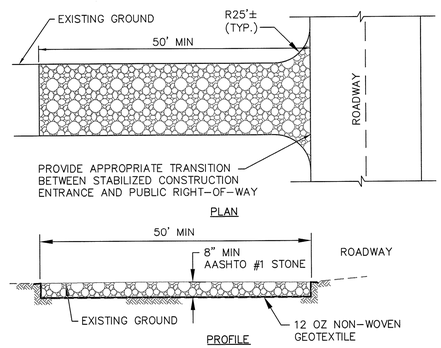
FINAL COVER SYSTEM
NTS



FINAL CLOSURE CAP
NTS



INTERMEDIATE CLOSURE
NTS



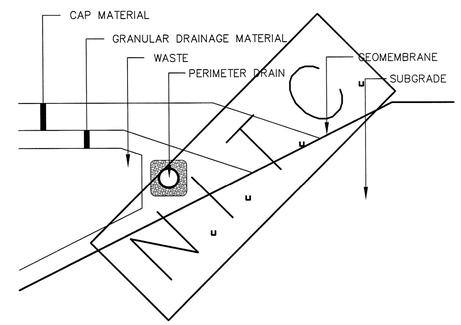
NOTES:

1. AASHTO #1 STONE SHALL HAVE THE FOLLOWING GRADATION STONE REQUIREMENTS:

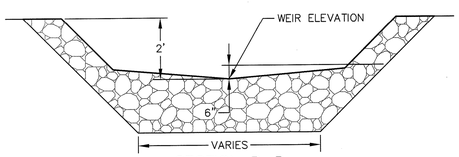
SIEVE DESIGNATION (INCHES)	% PASSING BY WEIGHT
4"	100
3 1/2"	90-100
2 1/2"	25-60
1 1/2"	0-15
3/4"	0-5

2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN 8 INCHES.
4. WIDTH - 20 FEET MINIMUM, OR NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. MAINTENANCE - CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND PLACED IN AREA D.

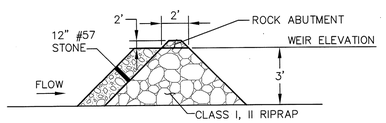
STABILIZED CONSTRUCTION ENTRANCE/EXIT
NTS



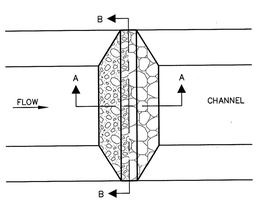
PERIMETER DRAIN
NTS



SECTION B-B



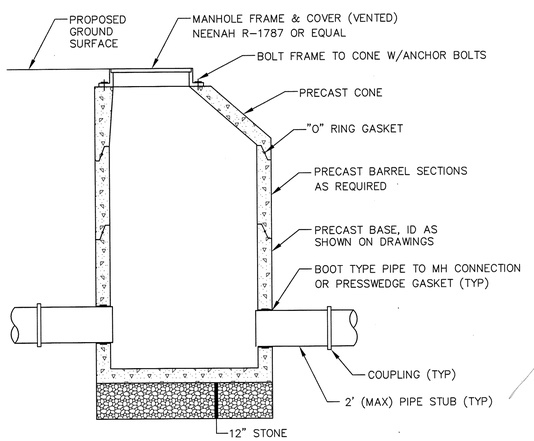
SECTION A-A



PLAN VIEW

NOTE: SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTERS. IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER AND STABILIZE DISTURBED AREAS.

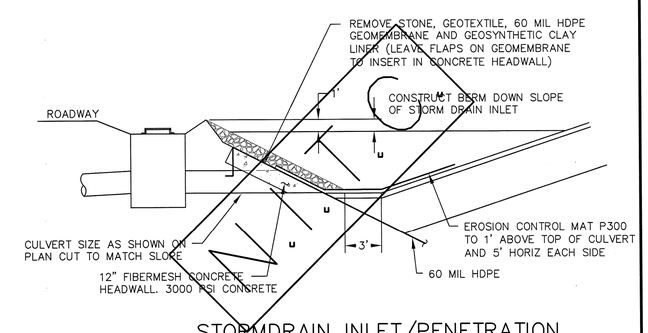
ROCK DAM
NTS



TYPICAL MANHOLE
NTS

MANHOLE NOTES:

1. ALL CONCRETE SHALL HAVE A MINIMUM 4000 PSI COMPRESSIVE STRENGTH AFTER 28 DAYS.
2. DESIGN FOR H-20 WHEEL LOADING.
3. CONFORM TO ASTM-C478 SPECIFICATIONS.
4. FIELD VERIFY EXISTING PIPE INVERTS PRIOR TO CONSTRUCTION.
5. PENETRATIONS INTO EXISTING MANHOLES FOR NEW PIPES SHALL USE EITHER A PRESS BOOT CONNECTION OR COMPRESSION TYPE GASKET.



STORMDRAIN INLET/PENETRATION
NTS

REV.	BY	DATE	STATUS
	KPL	11/14	RECORD DRAWING
	ASB	8/13	SUBMITTED TO NCDENR

NORTH CAROLINA PROFESSIONAL SEAL 037702 ENGINEER GUY H. COTE, JR.

EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

SECTIONS AND DETAILS

SME
Sevee & Maher Engineers, Inc.
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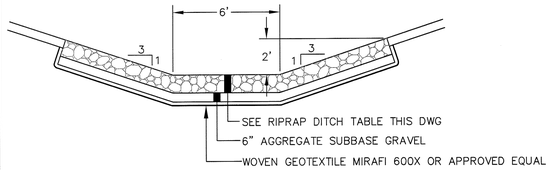
4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

DESIGN BY: ASB
DRAWN BY: SJM
DATE: 6/12/2013
CHECKED BY: KPL
LMN: NONE
CTB: SME-STD

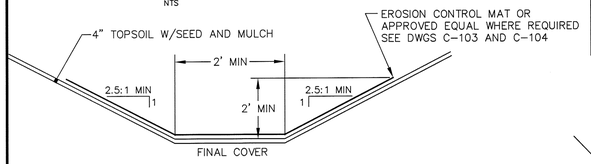
JOB NO. 12121.03 DWG FILE 6DN-DETAILS

C-302



NOTE: SEE RIPRAP DITCH TABLE THIS DWG

RIPRAP DITCH
NTS



NOTE: SEE GRASS DITCH TABLE THIS DWG

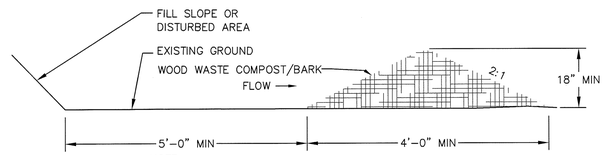
GRASS DITCH
NTS

RIPRAP DITCH TABLE

CHANNEL ID	B (FT)	D (FT)	Z1	Z2	d_{50} (in)	thickness (in)
1D-1	0	2	2	2	8	18
1D-2	0	2	2	2	6	14
1D-3	0	2	2	2	6	14
2B-1	2	2	2.5	2.5	12	27
2B-2	2	2	2.5	2.5	6	14
2B-3	2	2	2.5	2.5	8	18
2B-4	4	2	2.5	2.5	12	27

GRASS DITCH TABLE

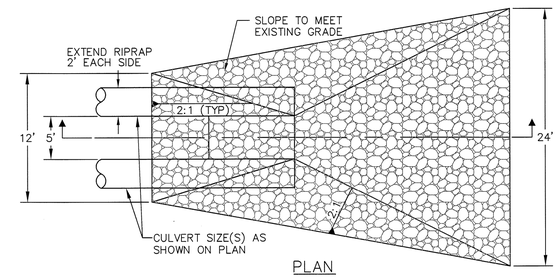
CHANNEL ID	B (FT)	D (FT)	Z1	Z2	LINING	STAPLE PATTERN
1D-4	8	5	2.5	2.5	S75	D
1D-5	8	5	2.5	2.5	S75	D
2A-1	2	2	2.5	2.5	C125	D
2B-1	2	2	2.5	2.5	C125	D
2B-2	4	2	2.5	2.5	C125	D
2D-1	4	2	2.5	2.5	C125	D
3D-1	2	2	2.5	2.5	C125	D



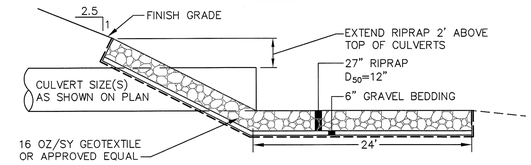
NOTE:

BARK MULCH SEDIMENT BARRIERS MAY BE USED AS AN ALTERNATE TO SILT FENCE WHEN APPROVED BY THE ENGINEER.

BARK MULCH SEDIMENT BARRIER
NTS

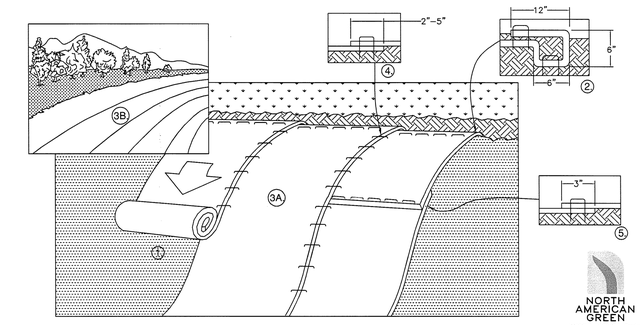


PLAN



SECTION

RIPRAP OUTLET PROTECTION
NTS



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EVANSVILLE, IN 47725
800-772-2040
www.nagreen.com

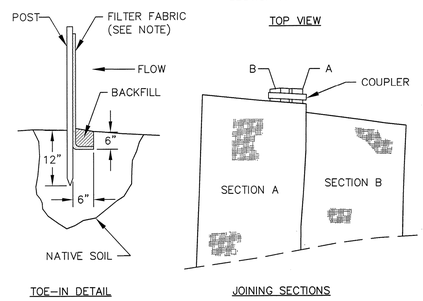
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's DOWN ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" – 5" OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP's WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

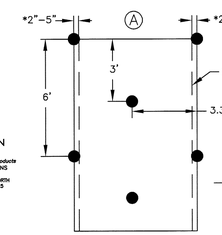
SLOPE INSTALLATION
NTS

NOTE:

SILTATION FENCE SHALL BE ENVIROFENCE AS MANUFACTURED BY MIRAFI INC., PROPEX SILT STOP AS MANUFACTURED BY AMOCO FABRICS CO. OR EQUAL



SILT FENCE
NTS



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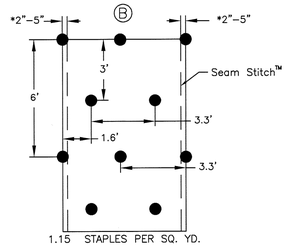
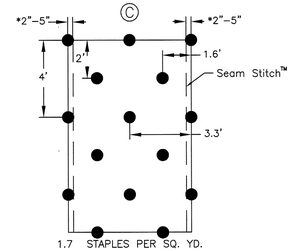
0.7 STAPLES PER SQ. YD.

For blankets with the North American Green DOT System™ place staples through each of the dots.



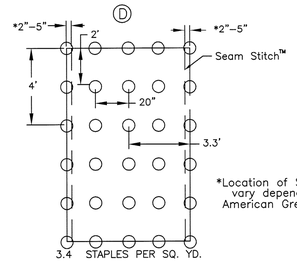
1.15 STAPLES PER SQ. YD.

For blankets with the North American Green DOT System™ place staples through each of the dots.



1.7 STAPLES PER SQ. YD.

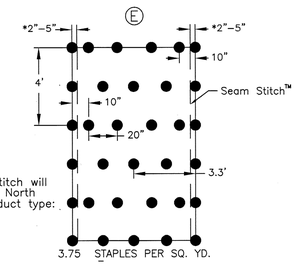
For blankets with the North American Green DOT System™ place staples through each of the dots.



3.4 STAPLES PER SQ. YD.

For blankets with the North American Green DOT System™ place staples through each of the dots.

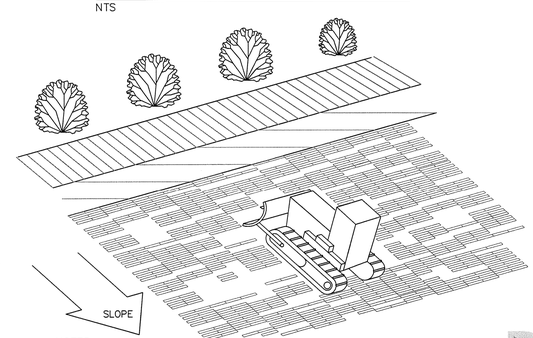
*Location of Seam Stitch will vary depending on North American Green product type:



3.75 STAPLES PER SQ. YD.

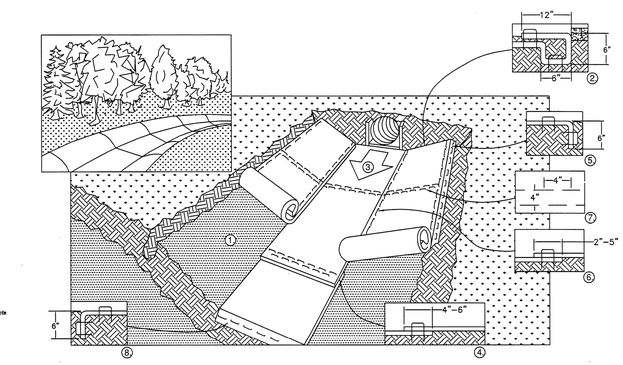
For blankets with the North American Green DOT System™ place staples through each of the dots.

DOT SYSTEM™ STAPLE PATTERN GUIDE
NTS



NOTES:
1. SLOPE TRACKING SHALL BE PERFORMED BY CONTRACTOR ON ALL FINISHED AREAS TO BE SEEDED.
2. TRACKING SHALL BE PERFORMED BY RUNNING TRACKED MACHINERY UP AND DOWN SLOPES LEAVING TREAD MARKS PARALLEL TO THE CONTOUR.

SLOPE TRACKING
NTS



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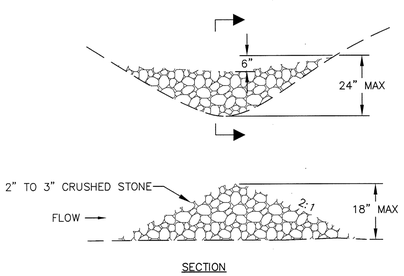
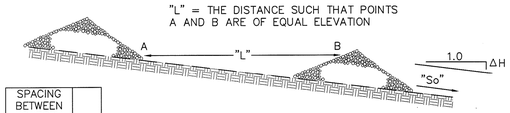
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP's IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMAPCT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES SPACED APPROXIMATELY 12" ACROSS THE WIDTH OF THE RECP's.
3. ROLL CENTER RECP's IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP's END OVER END (SHINGLE STYLE) WITH A 4" – 6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE RECP's.
5. FULL LENGTH EDGE OF RECP's AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP's MUST BE OVERLAPPED APPROXIMATELY 2" – 5" (DEPENDING ON RECP's TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP's MUST BE ANCHORED WITH A ROW OF STAPLES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

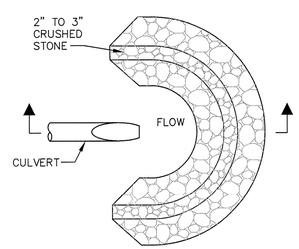
NOTE:
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

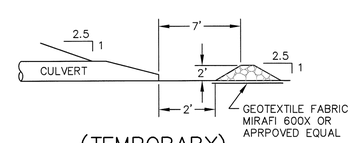




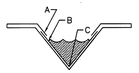
SPACING BETWEEN CHECK DAMS	
"So" FT/FT	"L" FT
0.020	75
0.030	50
0.040	40
0.050	30
0.080	20
0.100	10

STONE CHECK DAM
NTS





(TEMPORARY) RIPRAP CULVERT INLET PROTECTION
NTS



CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

CHANNEL INSTALLATION
NTS

REV.	BY	DATE	STATUS
	KJW	11/14	RECORD DRAWING
	ASB	8/13	SUBMITTED TO NCDENR

NORTH CAROLINA PROFESSIONAL SEAL 037702 ENGINEER GUY H. COTE, JR.

EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT

SECTIONS AND DETAILS

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DRAWN BY: SJM
DATE: 6/12/2013
CHECKED BY: GHC
LMN: NONE
CTB: SME-STD

JOB NO. 12121.03 DWG FILE 6DN-DETAILS

C-303

\\Maxwell\drfs\Projs\N-Z\Evergreen\Canton\12121.03 Sep_ 11/25/2014 8:53:03 AM, sjm

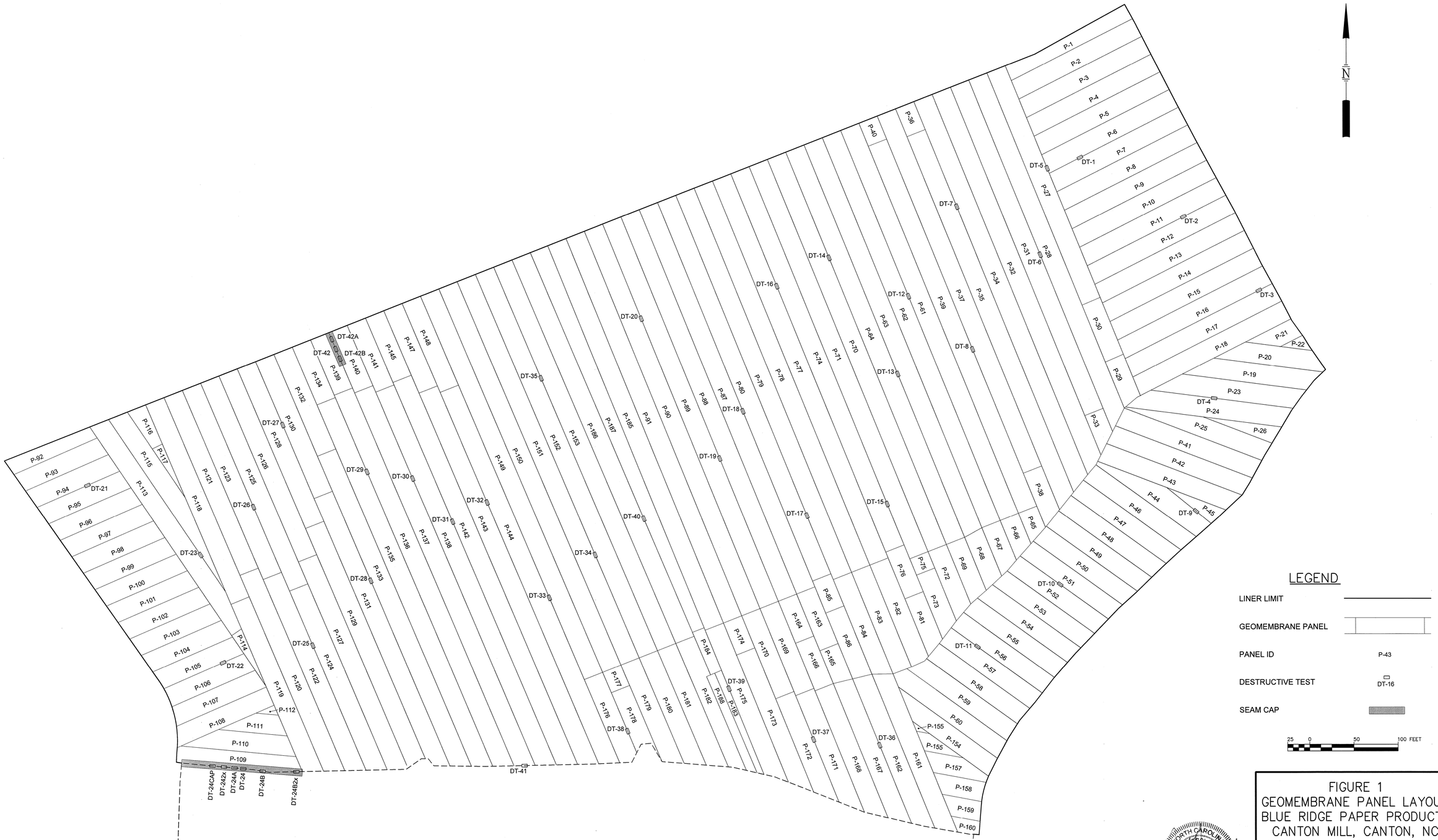

FIGURE 1
GEOMEMBRANE PANEL LAYOUT
BLUE RIDGE PAPER PRODUCTS
CANTON MILL, CANTON, NC
LANDFILL NO. 6 AMENDMENT

NORTH CAROLINA PROFESSIONAL SEAL 037702 ENGINEER GUY H. COTE, JR.

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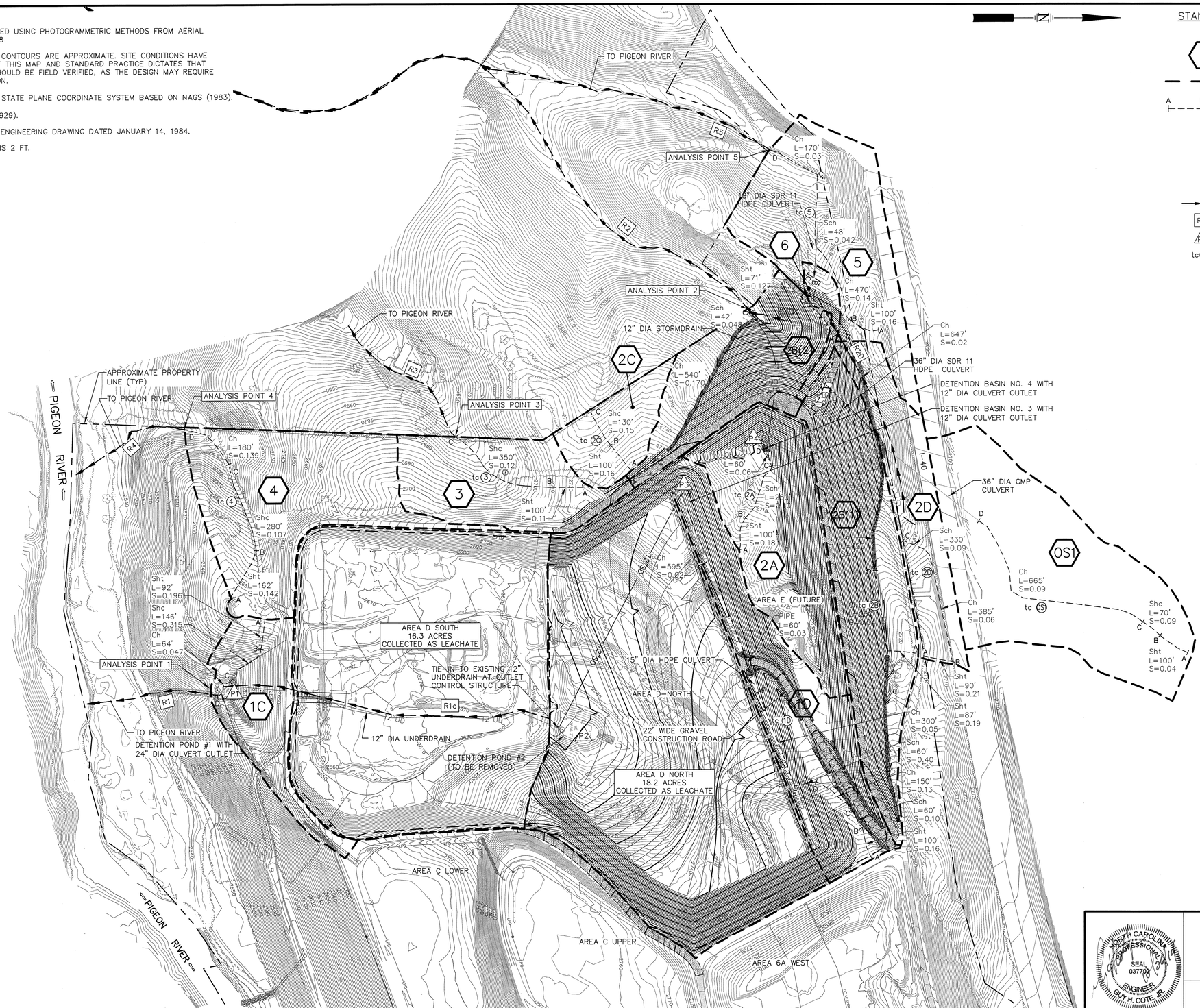
DWG: PANEL LMN: GEOMEMBRANE CTB: SME-STD REV: 11/6/2014

NOTES:

1. MAPPING FOR LANDFILL AREA COMPILED USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED MARCH 5, 2008
2. LOCATIONS OF OBJECTS SHOWN AND CONTOURS ARE APPROXIMATE. SITE CONDITIONS HAVE CHANGED SINCE THE COMPILATION OF THIS MAP AND STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED, AS THE DESIGN MAY REQUIRE FIELD ADJUSTMENT FOR CONSTRUCTION.
3. GRID IS BASED ON NORTH CAROLINA STATE PLANE COORDINATE SYSTEM BASED ON NAGS (1983).
4. VERTICAL DATUM BASED ON NGVD (1929).
5. PROPERTY LINE DIGITIZED FROM LAW ENGINEERING DRAWING DATED JANUARY 14, 1984.
6. EXISTING GRADE CONTOUR INTERVAL IS 2 FT.



STANDARD STORMWATER MANAGEMENT SYMBOLS

1	SUBCATCHMENT DESIGNATION
	SUBCATCHMENT BOUNDARY
A B C	TIME OF CONCENTRATION SEGMENT DESIGNATION TIME OF CONCENTRATION PATH
Sht L=50' S=0.005	TIME OF CONCENTRATION TYPE, LENGTH AND SLOPE. (75% TEXT HT)
Sht	SHEET FLOW
Shc	SHALLOW CONCENTRATED FLOW
Cf	CHANNEL FLOW
	DRAINAGE REACH
R4	REACH DESIGNATION
P9	POND/STRUCTURE DESIGNATION
tc 1	TIME OF CONCENTRATION WITH SUBCATCHMENT DESIGNATION

REV.	BY	DATE	STATUS
	KJN	11/14	RECORD DRAWING
	ASB	8/13	SUBMITTED TO NCDENR

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 037792 GUY H. COTE, JR.

EVERGREEN PACKAGING
CANTON, NORTH CAROLINA
LANDFILL NO. 6
AREA 6D NORTH DEVELOPMENT
POST DEVELOPMENT STORMWATER MANAGEMENT PLAN

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DESIGN BY:	ASB
DRAWN BY:	SJM
DATE:	7/17/2013
CHECKED BY:	
LMN:	SMP-P
CTB:	SME-STD

JOB NO. 12121.03 DWG FILE 6DN-BASE

D-101