BASE LANDFILL
CELL 9 REPAIRS
MARINE CORPS BASE CAMP LEJEUNE
CONTRACT NO. N40085-20-B-0086

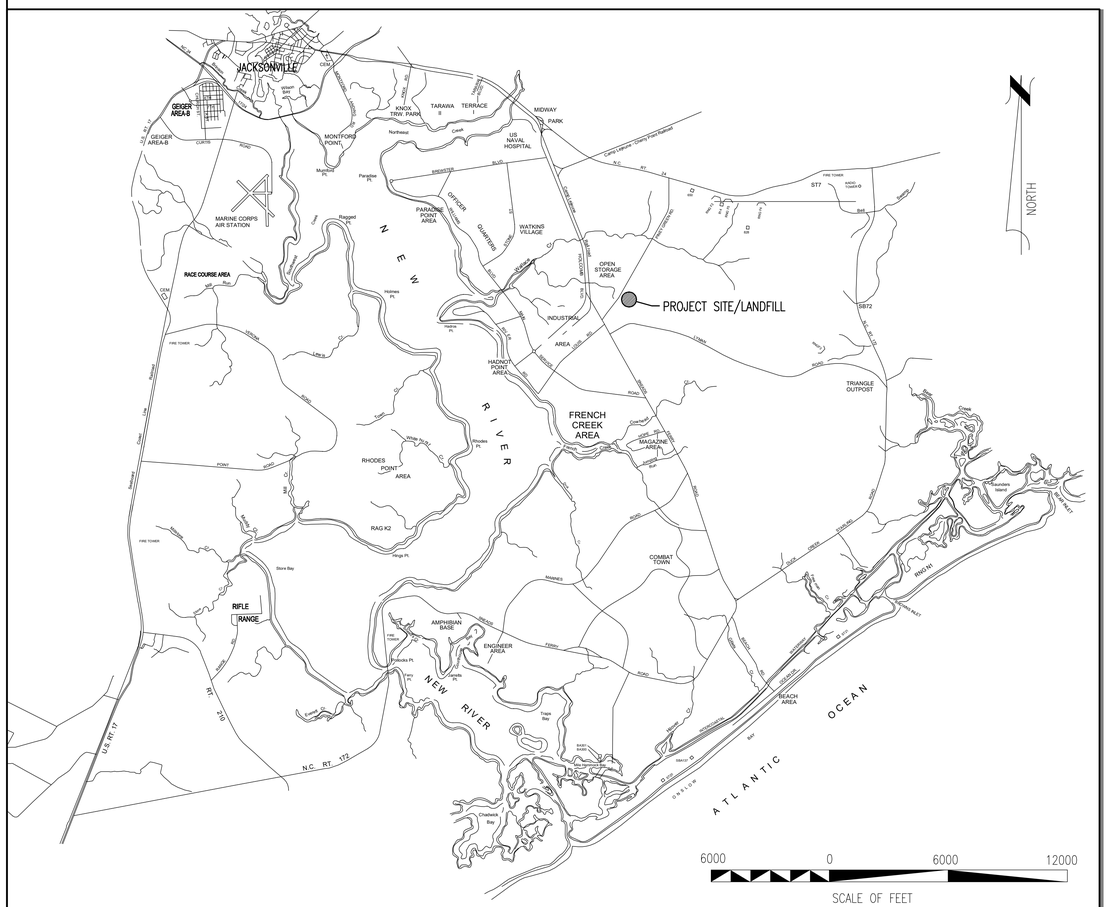
INDEX OF DRAWINGS

SHEET COUNT	NAVFAC NO.	SHEET NO.	TITLE
1 OF 7	60033589	G-001	COVER SHEET
2 OF 7	60033590	C-101	OVERALL SITE MAP
3 OF 7	60033591	C-102	EXISTING CONDITIONS/DEMOLITION PLAN
4 OF 7	60033592	C-103	SITE PLAN
5 OF 7	60033593	C-301	GRADING PLAN
6 OF 7	60033594	C-501	DETAILS
7 OF 7	60033595	C-502	DETAILS

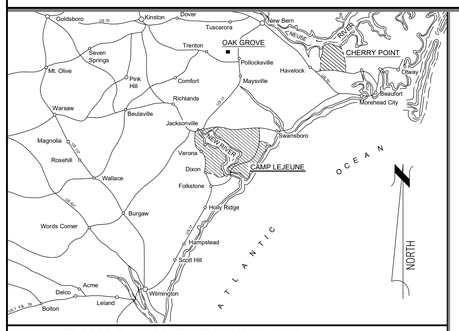
REVISIONS			
SYM		DATE	APPROVED

ABBREVIATIONS

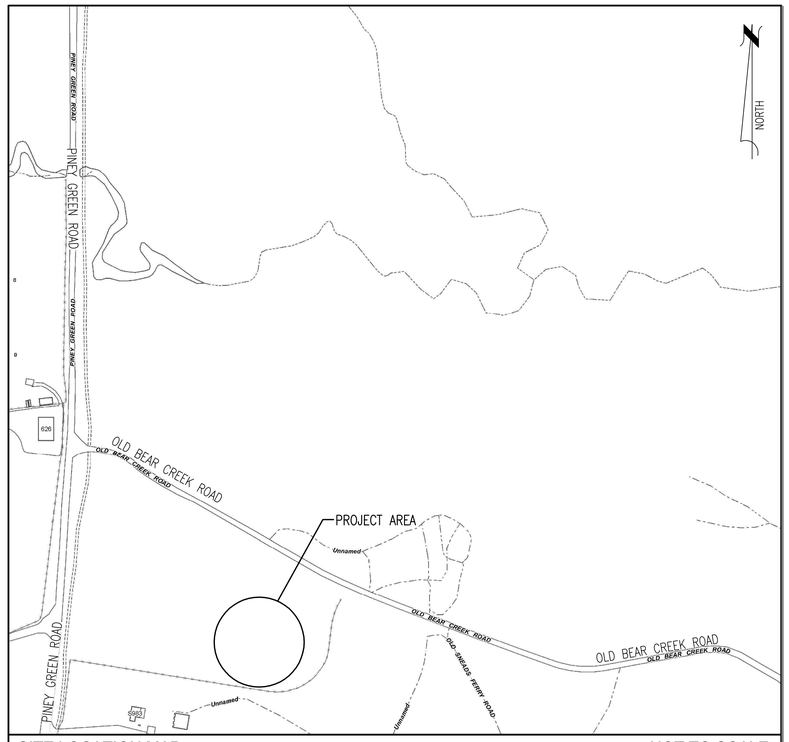
CL, C/L	CENTER LINE
CMP	CORRUGATED METAL PIPE
DIA	DIAMETER
ELEV	ELEVATION
E.W.	EACH WAY
ETC.	ET CETERA
INT.	INTERSECTION
INV	INVERT
MAX	MAXIMUM
MIN	MINIMUM
NCESC	NORTH CAROLINA EROSION AND SEDIMENT CONTROL
NCDOT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
O.C.	ON CENTER
RCP	REINFORCED CONCRETE PIPE
SF	SQUARE FEET
TC	TOP OF CURB
TBM	TEMPORARY BENCHMARK
TYP	TYPICAL
&	AND
±	PLUS OR MINUS
%	PERCENT



LOCATION MAP - U. S. MARINE CORPS BASE CAMP LEJEUNE, NC



VICINITY MAP - CAMP LEJEUNE, N.C.



SITE LOCATION MAP — NOT TO SCALE

SITE MAPPING AND SITE DESIGN BY:

AVOLIS ENGINEERING, P.A.
P.O. BOX 15564
NEW BERN, NC 28561
(252) 633-0068
AE PROJECT #20062
LICENSE NO. C-0706

DISCLOSURE OF INFORMATION

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NORTH CAROLINA PROFESSIONAL SEAL 15360 ENGINEER JOSEPH C. AVOLIS 8.29.22
AE PROJECT # 20062

G-001

NRW ENGINEERING, P.C.
Consulting Structural Engineers
748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464
tel 757-474-0612 fax 757-474-0919

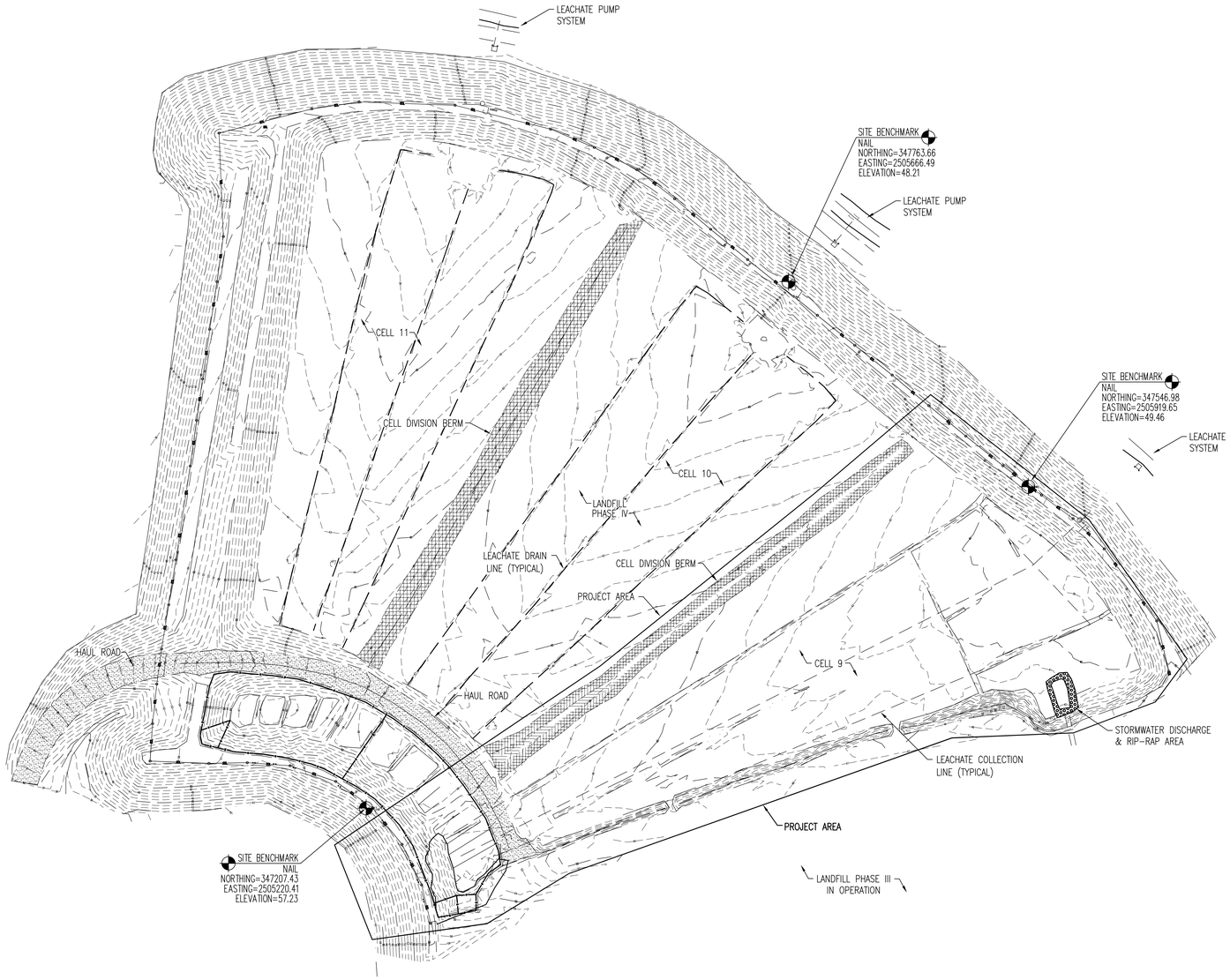
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES.	J. C. AVOLIS, PE, PLS
DR.	EH
CHK.	J. K. AVOLIS, PE
SUBMITTED BY:	
DESIGN DIR.	T. H. BURTON, P.E.
APPROVED: PWO OR OICC	DATE
SATISFACTORY TO:	DATE

BASE LANDFILL
CELL 9 REPAIRS
MARINE CORPS BASE CAMP LEJEUNE
COVER SHEET

SIZE	CODE IDENT. NO	NAVFAC DRAWING NO.
F	80091	60033589
		CONSTR. CONTR. NO. N40085-20-B-0086
SCALE: NOTED	SPEC. 05-20-0086	SHEET 01 OF 07

REVISIONS			
SYM		DATE	APPROVED



I, JOSEPH C. AVOLIS, PE, PLS, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY:

- CLASS OF SURVEY: CLASS A
- POSITIONAL ACCURACY: HORIZONTAL: 0.022'
  VERTICAL: 0.086'
- TYPE OF GPS FIELD PROCEDURE: NC CORS NETWORK VRS
- DATE(S) OF SURVEY: MARCH 3, 2021
- DATUM/EPOCH: NAD83
- PUBLISHED/FIXED-CONTROL USE: NC CORS VRS
- GEOID MODEL: GEOID 2012B
- COMBINED GRID FACTOR(S): 0.99988133
- UNITS: US SURVEY FEET

NOTE: GPS USED TO ESTABLISH GRID NORTH ROTATION AND ELEVATION ONLY (NAVD1988)

THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

I, JOSEPH C. AVOLIS, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES; THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY AS CALCULATED IS 1:10,000+; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 29th DAY OF APRIL, A.D., 2021.

PROFESSIONAL LAND SURVEYOR

L-5308
LICENSE NUMBER

NORTH CAROLINA PROFESSIONAL SEAL L-5308 LAND SURVEYOR JOSEPH C. AVOLIS

SITE MAPPING AND SITE DESIGN BY:

AVOLIS ENGINEERING, P.A.
P.O. BOX 15564
NEW BERN, NC 28561
(252) 633-0068
AE PROJECT #20062
LICENSE NO. C-0706

A OVERALL SITE MAP

SCALE: 1" = 60'

TN
PN

GRAPHIC SCALE: 1" = 60'
60 0 30 60 120

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AE PROJECT # 20062

C-101

NRW ENGINEERING, P.C.
Consulting Structural Engineers
748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464
tel: 757-474-0612 fax: 757-474-0919

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES. J. C. AVOLIS, PE, PLS
DR. EH
CHK. J. K. AVOLIS, PE
SUBMITTED BY:
DESIGN DIR. T. H. BURTON, P.E.

BASE LANDFILL
CELL 9 REPAIRS
MARINE CORPS BASE CAMP LEJEUNE
OVERALL SITE MAP

APPROVED: PWO OR OICC DATE
SATISFACTORY TO: DATE

SIZE: F
CODE IDENT. NO: 80091
NAVFAC DRAWING NO.: 60033590
CONSTR. CONTR. NO. N40085-20-B-0086
SCALE: NOTED
SPEC. 05-20-0086
SHEET 02 OF 07

REVISIONS			
SYM		DATE	APPROVED



A EXISTING CONDITIONS/DEMOLITION PLAN

SCALE: 1" = 30'

TN
PN

GRAPHIC SCALE: 1" = 30'

DEMOLITION WORK ITEMS:

1. REMOVE AND REPLACE THE STONE FILTER IN THE ENTIRE AREA OF CELL 9. REMOVE THE STONE TO THE SAME ELEVATION AS THE BOTTOM OF THE LEACHATE COLLECTION PIPING. THE REMOVED AGGREGATE SHALL BE STOCKPILED AT A LOCATION WITHIN THE LANDFILL COMPLEX FOR FUTURE USE BY LANDFILL PERSONNEL. NEW AGGREGATE SHALL BE PROVIDED BY THE CONTRACTOR TO REPLACE THE MATERIAL REMOVED.
2. INSPECT LEACHATE LINES AND RISERS FOR ANY DAMAGE. REPAIR ANY DAMAGED LINE SECTIONS.
3. REMOVE LEACHATE SUBMERSIBLE PUMP FROM LEACHATE LINE IN SUMP AREA AND TEST OPERATION. MAKE PUMP REPAIR AS NEEDED.
4. REMOVE ALL STONE MEDIA FROM SUMP AREA DOWN TO THE BOTTOM OF THE LATERALS.
5. PROVIDE VIDEO INSPECTION OF ALL CELL 9 LEACHATE LINES. VERIFY THAT LINES ARE FREE OF SEDIMENT AND OBSTRUCTIONS. VERIFY THAT PIPING SECTIONS AND JOINTS ARE IN ALIGNMENT. PROVIDE AN ELECTRONIC COPY OF THE INSPECTION VIDEO TO THE CONTRACTING OFFICER.
6. DEMOLISH CELL SEPARATION BERM INCLUDING GEOTECH FABRIC IN ORDER TO REPLACE STONE FILTER MEDIA. REMOVE ALL SEDIMENT.
7. DEMOLISH STORMWATER RIP-RAP IN ORDER TO REPLACE STONE FILTER MEDIA.

GENERAL DEMOLITION NOTES:

1. REMOVE STONE AND SEDIMENT FROM CELL 9 IN ORDER TO RECONDITION AND RECONSTRUCT THE AREA AS A RESULT OF DAMAGE OCCURRED BY HURRICANE FLORENCE.
2. ALL OPERATIONS SHALL BE CONDUCTED IN A MANNER TO PREVENT ANY DAMAGE TO THE LANDFILL LINER.

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
2. PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.

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SITE MAPPING AND SITE DESIGN BY:
AVOLIS ENGINEERING, P.A.
P.O. BOX 15564
NEW BERN, NC 28561
(252) 633-0068
AE PROJECT #20062
LICENSE NO. C-0706

C-102

NRW ENGINEERING, P.C.
Consulting Structural Engineers
748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464
tel 757-474-0612 fax 757-474-0919

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES. J. C. AVOLIS, PE, PLS
DR. EH
CHK. J. K. AVOLIS, PE
SUBMITTED BY:
DESIGN DIR. T. H. BURTON, P.E.

BASE LANDFILL
CELL 9 REPAIRS
MARINE CORPS BASE CAMP LEJEUNE
EXISTING CONDITIONS/DEMOLITION PLAN

APPROVED: PWO OR OICC DATE

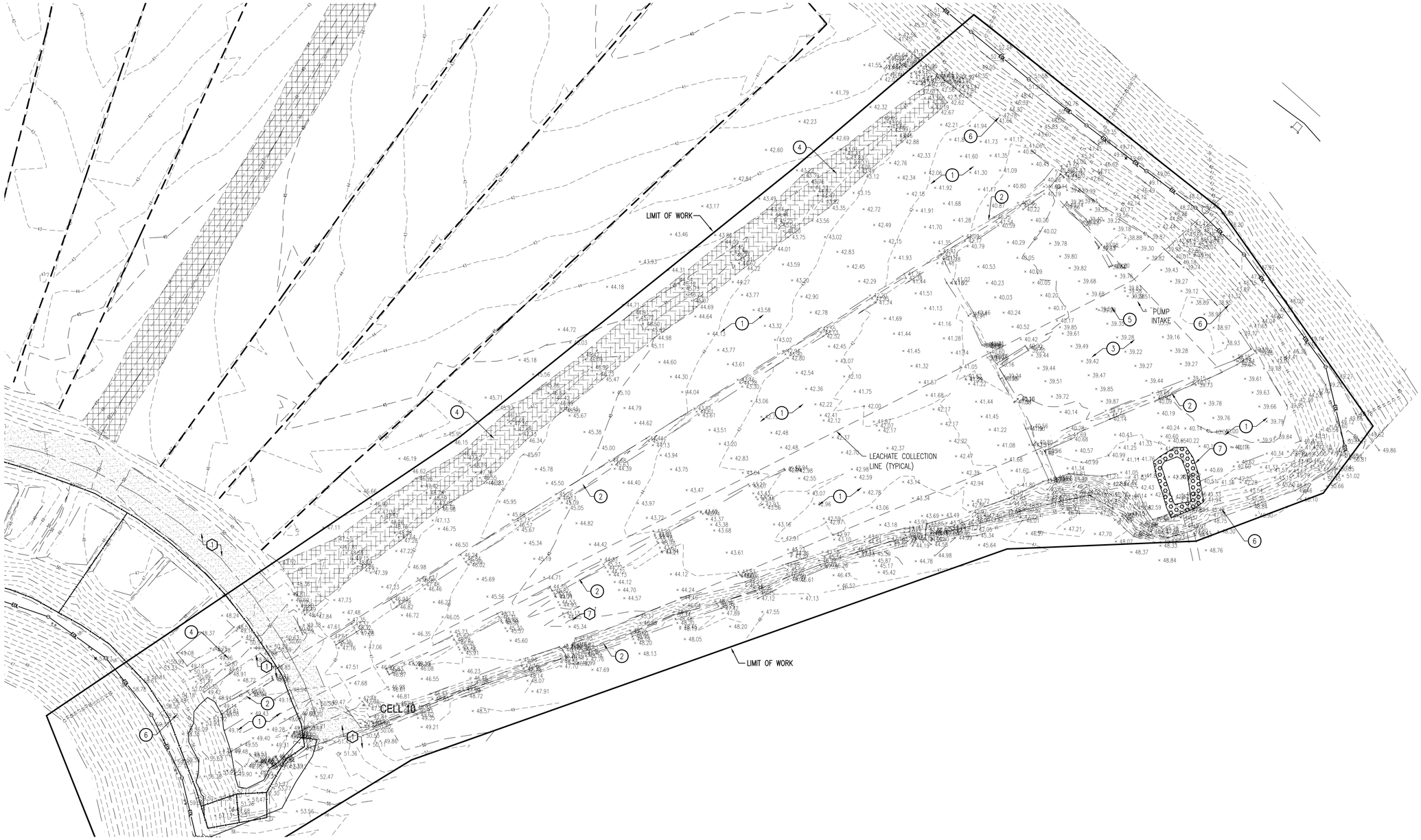
SATISFACTORY TO: DATE

NORTH CAROLINA PROFESSIONAL SEAL 15360 ENGINEER JOSEPH C. AVOLIS 8-22-18

AE PROJECT # 20062

SIZE	CODE IDENT. NO	NAVFAC DRAWING NO.
F	80091	60033591
		CONSTR. CONTR. NO. N40085-20-B-0086
SCALE: NOTED	SPEC. 05-20-0086	SHEET 03 OF 07

REVISIONS			
SYM		DATE	APPROVED



A SITE PLAN
SCALE: 1" = 30'

TN
PN

NEW WORK ITEMS:

1. PLACE STONE FILTER MEDIA OVER OPEN AREAS IN ACCORDANCE WITH DETAIL C, SHEET C-502. GRADE IN ACCORDANCE WITH THE FINISH GRADING PLAN.
2. PLACE STONE FILTER MEDIA AROUND AND OVER LEACHATE LINES AS SHOWN IN DETAILS B & C, SHEET C-501.
3. RECONSTRUCT STONE FILTER MEDIA IN PUMP SUMP AREA IN ACCORDANCE WITH DETAIL A, SHEET C-502.
4. RECONSTRUCT CELL SEPARATION BERM IN ACCORDANCE WITH DETAIL D, SHEET C-501.
5. REPLACE SUBMERSIBLE PUMP IN LEACHATE SUMP AND MAKE OPERATIONAL.
6. REPAIR/STABILIZE ALL SIDE SLOPES WITH FILTER MEDIA IN ACCORDANCE WITH DETAIL B, SHEET C-502.
7. REINSTALL STORMWATER RIP-RAP AFTER STONE FILTER MEDIA IS REPLACED.

30 0 15 30 60
GRAPHIC SCALE: 1" = 30'

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(252) 633-0068
AE PROJECT #20062
LICENSE NO. C-0706

C-103

NORTH CAROLINA PROFESSIONAL SEAL 15360 ENGINEER JOSEPH C. AVOLIS
AE PROJECT # 20062

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Consulting Structural Engineers
748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464
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DES. J. C. AVOLIS, PE, PLS
DR. EH
CHK. J. K. AVOLIS, PE
SUBMITTED BY:
DESIGN DIR. T. H. BURTON, P.E.
APPROVED: PWO OR OICC DATE
SATISFACTORY TO: DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

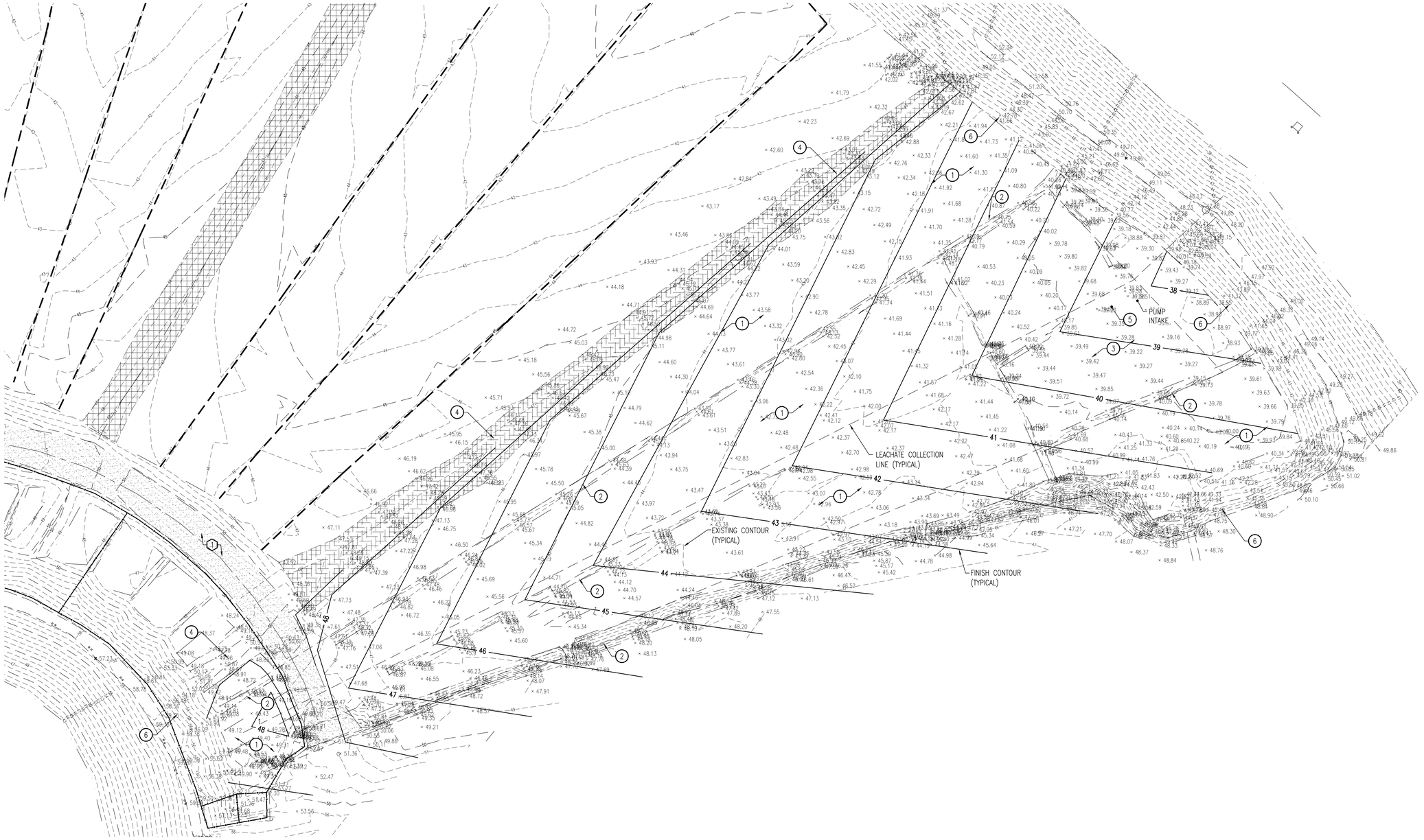
BASE LANDFILL
CELL 9 REPAIRS
MARINE CORPS BASE CAMP LEJEUNE
SITE PLAN

SIZE	CODE IDENT. NO	NAVFAC DRAWING NO.
F	80091	60033592

CONSTR. CONTR. NO. N40085-20-B-0086

SCALE: NOTED SPEC. 05-20-0086 SHEET 04 OF 07

REVISIONS			
SYM		DATE	APPROVED



A SITE PLAN
SCALE: 1" = 30'

TN
PN

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4. RECONSTRUCT CELL SEPARATION BERM IN ACCORDANCE WITH DETAIL D, SHEET C-501.
5. REPLACE SUBMERSIBLE PUMP IN LEACHATE SUMP AREA OF LEACHATE LINE AND MAKE OPERATIONAL.
6. REPAIR/STABILIZE ALL SIDE SLOPES WITH FILTER MEDIA WHERE ERODED IN ACCORDANCE WITH DETAIL B, SHEET C-502.

30 0 15 30 60
GRAPHIC SCALE: 1" = 30'

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AE PROJECT # 20062

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C-301

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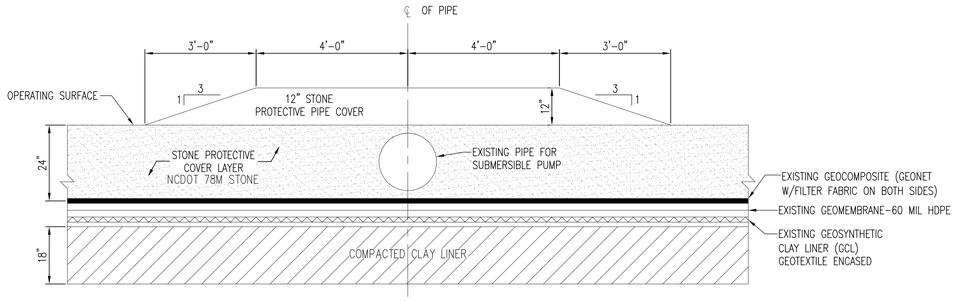
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BASE LANDFILL
CELL 9 REPAIRS
MARINE CORPS BASE CAMP LEJEUNE
GRADING PLAN

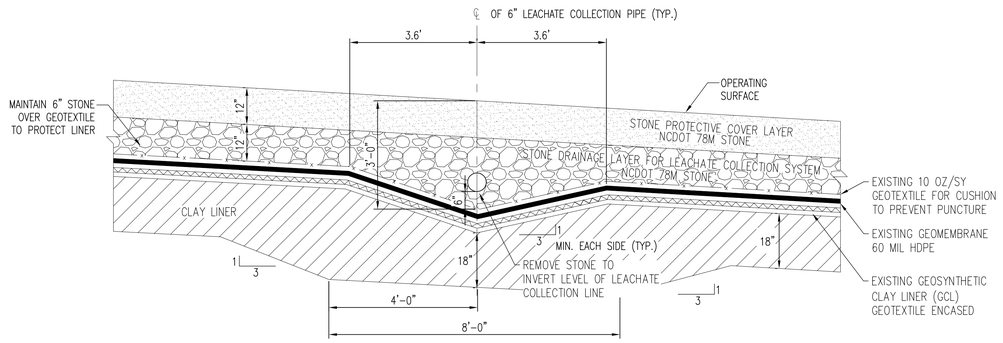
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CONSTR. CONTR. NO. N40085-20-B-0086
SCALE: NOTED | SPEC. 05-20-0086 | SHEET 05 OF 07

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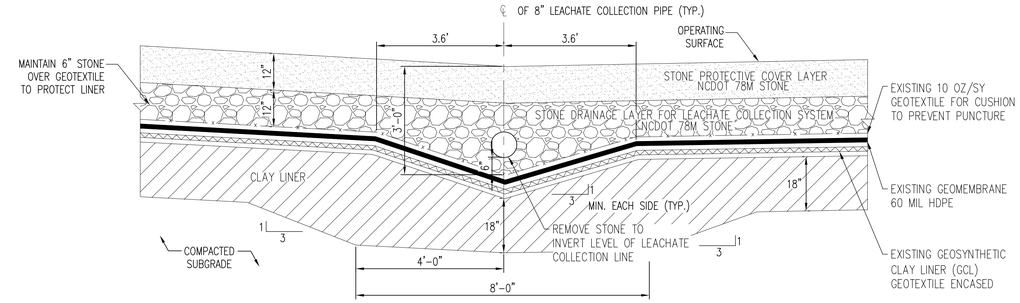
A PIPE PROTECTIVE COVER FOR SIDE SLOPE

NOT TO SCALE



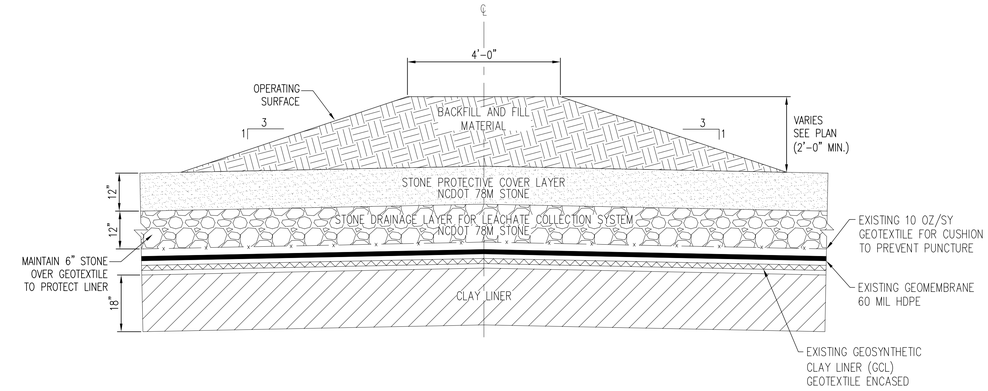
B 6" LEACHATE COLLECTION PIPE TRENCH TYPICAL SECTION

NOT TO SCALE



C 8" LEACHATE COLLECTION PIPE TRENCH TYPICAL SECTION

NOT TO SCALE



D CELL SEPARATION BERM TYPICAL SECTION

NOT TO SCALE

SITE MAPPING AND SITE DESIGN BY:

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P.O. BOX 15564
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(252) 633-0068 LICENSE NO. C-0706

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NORTH CAROLINA PROFESSIONAL SEAL 15360 ENGINEER JOSEPH C. AVOLIS

AE PROJECT # 20062

C-501

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Consulting Structural Engineers
748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464
tel 757-474-0612 fax 757-474-0919

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

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DR. EH
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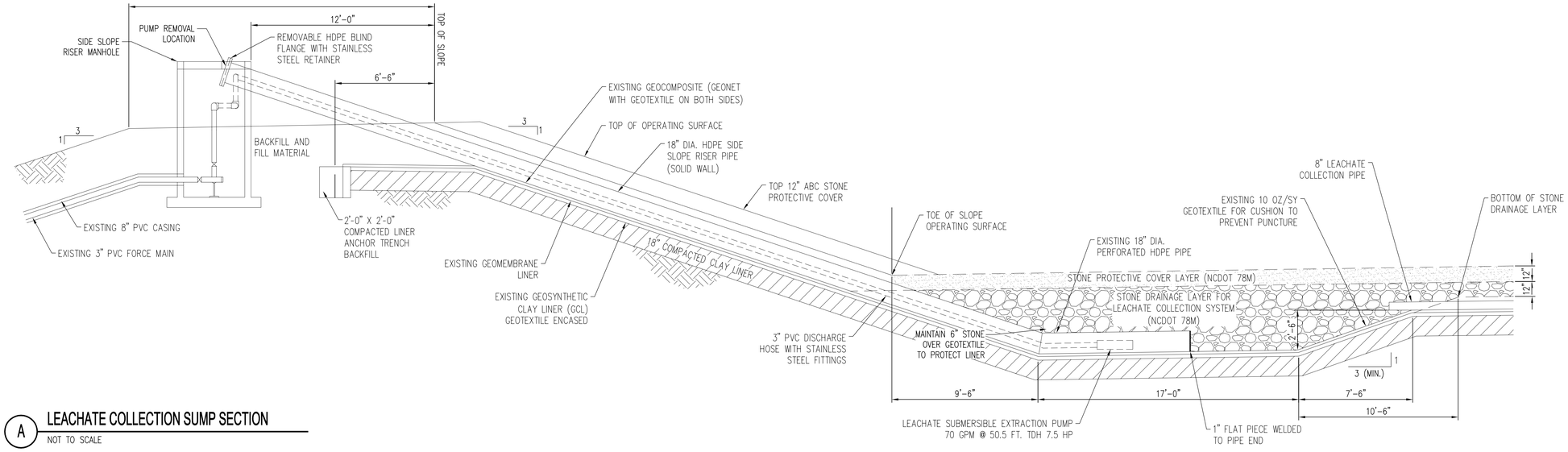
BASE LANDFILL
CELL 9 REPAIR
MARINE CORPS BASE CAMP LEJEUNE
DETAILS

SIZE	CODE IDENT. NO	NAVFAC DRAWING NO.
F	80091	60033594

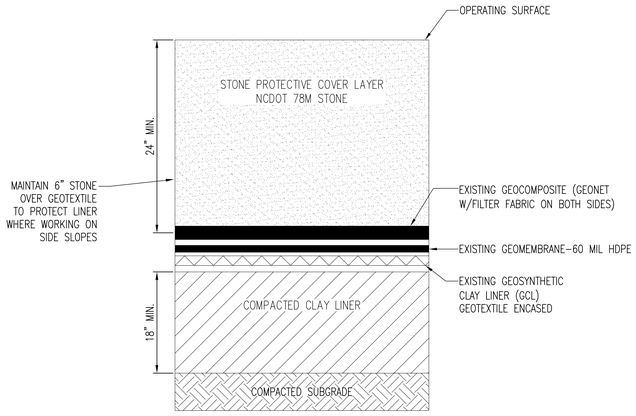
CONSTR. CONTR. NO. N40085-20-B-0086

SCALE: NOTED SPEC. 05-20-0086 SHEET 06 OF 07

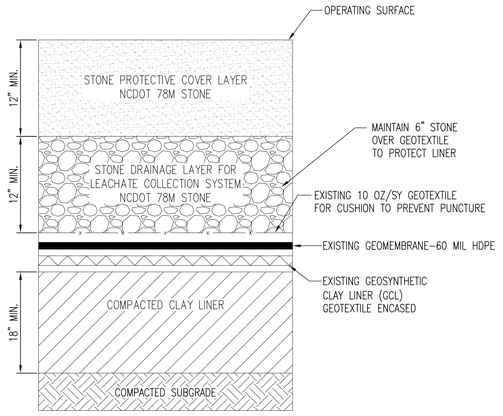
REVISIONS			
SYM		DATE	APPROVED



A **LEACHATE COLLECTION SUMP SECTION**
NOT TO SCALE



B **COMPOSITE LINER SYSTEM FOR SIDE SLOPES**
NOT TO SCALE



C **COMPOSITE LINER SYSTEM**
NOT TO SCALE

DISCLOSURE OF INFORMATION

THE CONTRACTOR SHALL COMPLY AS FOLLOWS:

A. THE CONTRACTOR SHALL NOT RELEASE TO ANYONE OUTSIDE THE CONTRACTOR'S ORGANIZATION ANY UNCLASSIFIED INFORMATION, REGARDLESS OF THE MEDIUM (E.G. FILM, TAPE, DOCUMENT), PERTAINING TO ANY PART OF THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT, UNLESS

1. THE CONTRACTING OFFICER HAS GIVEN PRIOR WRITTEN APPROVAL; OR
2. THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.

B. REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED, THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED DATE OF RELEASE.

C. THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.

NORTH CAROLINA PROFESSIONAL SEAL 15360 ENGINEER JOSEPH C. AVOLIS 8-29-25
AE PROJECT # 20062

SITE MAPPING AND SITE DESIGN BY:
AVOLIS ENGINEERING, P.A.
P.O. BOX 15564
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AE PROJECT #20062
LICENSE NO. C-0706

C-502

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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES. J. C. AVOLIS, PE, PLS
DR. EH
CHK. J. K. AVOLIS, PE
SUBMITTED BY:
DESIGN DIR. T. H. BURTON, P.E.
APPROVED: PWO OR OICC DATE
SATISFACTORY TO: DATE

BASE LANDFILL
CELL 9 REPAIR
MARINE CORPS BASE CAMP LEJEUNE
DETAILS

SIZE F | CODE IDENT. NO 80091 | NAVFAC DRAWING NO. 60033595
CONSTR. CONTR. NO. N40085-20-B-0086
SCALE: NOTED | SPEC. 05-20-0086 | SHEET 07 OF 07