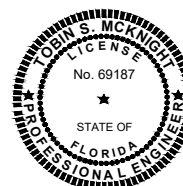


HENDRY COUNTY, FLORIDA
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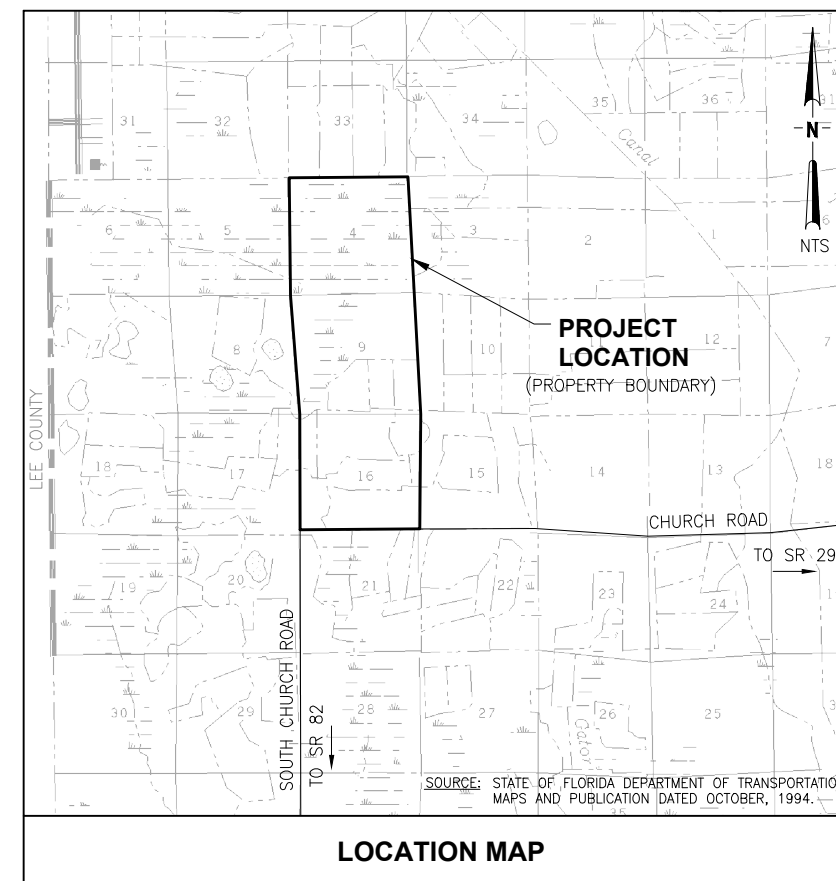


PREPARED BY:

13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32615 / (352) 377-5821



JULY 2024



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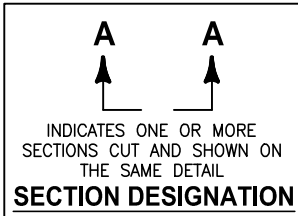
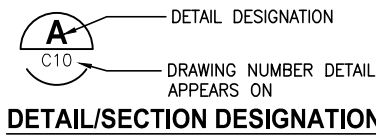
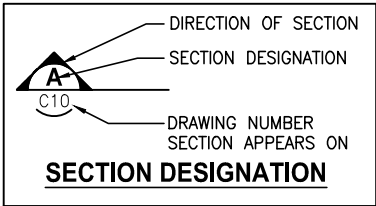
CIVIL LEGEND

	107	EXISTING CONTOUR
	108.25	EXISTING GRADE SPOT ELEVATION
	OH	EXISTING OVERHEAD ELECTRIC
	X	EXISTING FENCE
	LFM	EXISTING LEACHATE FORCE MAIN
	LFM	PROPOSED LEACHATE FORCE MAIN
		PROPOSED CONCRETE (SECTION)
		PROPOSED LIMEROCK (PLAN)
		PROPOSED LIMEROCK (SECTION)
		PROPOSED ROADWAY SUBBASE
		GRAVEL
		ANCHOR TRENCH FILL
		COMPACTED SUBGRADE OR GENERAL FILL
		DRAINAGE SOIL
		WETLANDS
	107	PROPOSED CONTOUR
	+102.0	PROPOSED GRADE SPOT ELEVATION
		STORMWATER/SURFACE WATER FLOW
		PROPERTY BOUNDARY
	LOC	LIMITS OF CONSTRUCTION
		PROPOSED EDGE OF BOTTOM LINER
		10" PERFORATED LEACHATE COLLECTION PIPE
	X	PROPOSED FENCE
	MW-111S	PROPOSED GROUNDWATER MONITORING WELL
	C26	PLAN SHEET DESIGNATION

GENERAL

APPROX	APPROXIMATE, APPROXIMATELY	NIC	NOT IN CONTRACT
BLDG	BUILDING	No	NUMBER
BTM	BOTTOM	NON-PERF	NONPERFORATED
CAP	CORRUGATED ALUMINUM PIPE	NTS	NOT TO SCALE
CB	CATCH BASIN	NW	NORTHWEST
CHDPE	CORRUGATED HIGH DENSITY POLYETHYLENE	OC	ON CENTER
C/L	CENTERLINE	OD	OUTSIDE DIAMETER
CM	CONCRETE MONUMENT	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
CO	COMPANY	PC	POINT OF CURVE
CONC	CONCRETE	PERF	PERFORATED
CONT	CONTINUOUS	PLS	PROFESSIONAL LAND SURVEYOR
CORR	CORRUGATED	PS	PUMP STATION
CPT	CONE PENETRATION TEST	R	RADIUS
CY/CU YDS	CUBIC YARDS	RCP	REINFORCED CONCRETE PIPE
DBL	DOUBLE	REF	REFERENCE
DET	DETAIL	R/W	RIGHT OF WAY
DOT	DEPARTMENT OF TRANSPORTATION (FLORIDA)	REQD	REQUIRED
DIA	DIAMETER	S	SLOPE
DIM	DIMENSION	SCH	SCHEDULE
DW	DEEP WELL	SDR	STANDARD DIMENSION RATIO
DWG	DRAWING	SECT	SECTION
EA	EACH	SHGWT	SEASONAL HIGH GROUND WATER TABLE
EOL	EDGE OF LINER	SIM	SIMILAR
ETC	ET CETERA	SPEC	SPECIFICATION
EI	ENGINEERING INTERN	SPT	STANDARD PENETRATION TEST
ENCL	ENCLOSE, ENCLOSURE	SS	STAINLESS STEEL
EL	ELEVATION	STD	STANDARD
EOP	EDGE OF PAVEMENT	STL	STEEL
EQUIP	EQUIPMENT	SW	STORMWATER/SOUTHWEST
EXIST	EXISTING	T	TANGENT
FAB	FABRICATION	TBM	TURNING BENCH MARK
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	TH	TEST HOLE
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	TYP	TYPICAL
FIN	FINISHED	USC&GS	UNITED STATES COASTAL AND GEODETIC SURVEY
GALV	GALVANIZED	USGS	UNITED STATES GEOLOGICAL SURVEY
GCL	GEOSYNTHETIC CLAY LINER	WGT	WEIGHT
GFFR	GROUT FILLED FIBER REVETMENT	Δ	DELTA, ANGULAR CHANGE
GR	GRADE	WWF	WELDED WIRE FABRIC
GS	GALVANIZED STEEL		
HDPE	HIGH DENSITY POLYETHYLENE		
HP	HIGH POINT		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
L	LENGTH		
LBR	LOAD BEARING RATIO		
LCS	LEACHATE COLLECTION SYSTEM		
LDS	LEACHATE DETECTION SYSTEM		
LF	LINEAR FEET		
LFM	LEACHATE FORCE MAIN		
LRL	LEACHATE RECIRCULATION LINE		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MSL	(ABOVE) MEAN SEA LEVEL		
MT	MOUNT		
N/A	NOT APPLICABLE		
N/AVAIL	NOT AVAILABLE		
NGVD	NATIONAL GEODETIC VERTICAL DATUM		

ABBREVIATIONS



SURVEYOR NOTES

SURVEY SHOWN IS A COMPOSITE OF TWO DIFFERENT SURVEYS:
EXISTING ASH MONOFILL AND EXISTING CELL 1 AREA SURVEYED BY T2 UTILITY ENGINEERS
DATED 10-4-2023. ALL OTHER AREAS SURVEYED BY JOHNSON ENGINEERING DATED 8-2023.

T2 SURVEYOR'S NOTES

1. THE CERTIFICATE OF AUTHORIZATION NUMBER OF T2 UES, INC. IS LB-8336.
2. NO ABSTRACT OF TITLE OR TITLE INSURANCE COMMITMENT WAS REVIEWED AS PART OF THIS SURVEY.
3. THIS SURVEY IS SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
4. IMPROVEMENTS ON OR ADJACENT TO THE SUBJECT PARCEL HAVE NOT BEEN LOCATED EXCEPT AS SHOWN. NO SUB-SURFACE FOUNDATIONS HAVE BEEN LOCATED AS PART OF THIS SURVEY.
5. THERE ARE NO VISIBLE ENCROACHMENTS OTHER THAN ANY SHOWN.
6. THIS SURVEY DOES NOT MAKE ANY REPRESENTATIONS AS TO ZONING OR DEVELOPMENT RESTRICTIONS ON THE SUBJECT PARCEL.
7. ALL NOTED RECORDING REFERENCES ARE FROM THE PUBLIC RECORDS OF HENDRY COUNTY.
8. ALL HORIZONTAL SURVEY DATA IS REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) BASED ON GPS RTK (REAL TIME KINEMATIC) CORRECTIONS RECEIVED FROM THE TRIMBLE VRS NETWORK. LOCATIONS SHOWN HAVE AN EXPECTED HORIZONTAL ACCURACY OF ± 0.1 FEET.
9. ALL DISTANCES ARE IN FEET AND DECIMALS THEREOF UNLESS OTHERWISE NOTED.
10. COORDINATES, BEARINGS AND DISTANCES SHOWN ARE MEASURED OR CALCULATED FROM FIELD TIES UNLESS OTHERWISE NOTED.
11. DATE OF LAST FIELD WORK: 10-4-2023; FIELD BOOK 5, PAGES 7 AND 8.
12. THIS SURVEY OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OR ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. OTHERWISE THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY.
13. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
14. NO ENVIRONMENTAL AUDIT OR JURISDICTIONAL DELINEATION WAS MADE AS PART OF THIS SURVEY.
15. ANY ADJOINING DEED CITES ARE FOR "INFORMATIONAL PURPOSES ONLY"; NO SURVEY WAS MADE OF ADJOINING LANDS.
16. ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM 1929, TIES TO BENCHMARK "CONTROL POINT 2" HAVING AN ELEVATION OF 34.91 FEET (NGVD 29) AS RECORDED IN CARDNO INC. SURVEY REPORT, DATED AUGUST 30, 2019. ELEVATIONS SHOWN HAVE EXPECTED VERTICAL ACCURACY OF ±0.1 FEET.
17. VERTICAL CONVERSION FROM NAVD 88 TO NGVD 29 = +1.26 FEET.
18. THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1" = 100' OR SMALLER.

DRAWING INDEX

DWG	DESCRIPTION
GENERAL	
G1	COVER
G2	DRAWING INDEX LEGEND AND ABBREVIATIONS
G3	GENERAL NOTES
G4	COORDINATE TABLES
CIVIL	
C1	SITE PLAN AND KEY MAP
C2	EXISTING WELL AND BORING PLAN
C3	EXISTING CONDITIONS
C4	STORMWATER POND PLAN
C5	LEACHATE COLLECTION SYSTEM PLAN
C6	DRAINAGE SOIL COVER SYSTEMS PLAN
C7	LANDFILL SECTIONS
C8	LANDFILL PERIMETER BERM AND SWALE SECTIONS
C9	LINER SYSTEM DETAILS
C10	LINER SYSTEM DETAILS
C11	LINER SYSTEM DETAILS
C12	LEACHATE SUMP DETAIL
C13	LEACHATE SUMP SECTIONS AND DETAIL
C14	LANDFILL DETAILS
C15	LANDFILL DETAILS
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C18	LANDFILL DETAILS
STRUCTURAL	
S1	STRUCTURAL NOTES AND LEGEND
S2	PUMP STATION STRUCTURAL PLAN
S3	STRUCTURAL SECTION AND DETAILS
S4	STRUCTURAL DETAILS
MECHANICAL	
M1	MECHANICAL NOTES AND LEGEND
M2	PUMP STATION MECHANICAL PLAN
M3	PUMP STATION MECHANICAL SECTIONS
M4	MECHANICAL DETAILS
M5	MECHANICAL DETAILS
M6	MECHANICAL DETAILS
M7	MECHANICAL DETAILS
ELECTRICAL	
E1	ELECTRICAL LEGEND AND NOTES
E2	ELECTRICAL SITE PLAN
E3	PUMP STATION ELECTRICAL PLAN
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E5	ELECTRICAL WIRING SCHEDULE
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E7	ELECTRICAL DETAILS
EROSION CONTROL	
EC1	EROSION AND SEDIMENT CONTROL REQUIREMENT
EC2	EROSION CONTROL DETAILS
EC3	EROSION CONTROL DETAILS

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						DRAWN	PUPSTILL
						CHECKED	TMCKNIGHT
LTR.	DATE	REVISIONS	BY	APPRD.			

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LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

DRAWING INDEX LEGEND AND ABBREVIATIONS

APPROVED BY	PROJECT NO:	DATE:
TOBIN S. MCKNIGHT	12345-026-01	JUL 2024
P.E. 69187	INDEX NO:	DWG NO:
		G2

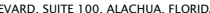
HEALTH AND SAFETY NOTES

13. -----, C/L, & ARE EXAMPLES OF DRAWING ELEMENTS THAT HAVE BEEN SCREENED/SHADOWED TO INDICATE EXISTING CONDITIONS THAT WERE PREVIOUSLY PERMITTED AND/OR CONSTRUCTED.
14. THE CONTRACTOR SHALL BE AWARE THAT THE CONSTRUCTION SITE IS ADJACENT AND CONNECTS TO ACTIVE LANDFILL CELLS, AND THAT LANDFILL GAS MAY MIGRATE ONTO THE CONSTRUCTION SITE. THE CONTRACTOR SHALL TAKE PROVEN MEANS TO PROTECT PERSONNEL AND FACILITIES FROM RELATED HAZARDS, INCLUDING EXPLOSION, ASPHYXIATION, AND POISONING DUE TO THE PRESENCE OF LANDFILL GASES.
15. THE CONTRACTOR SHALL NOT INTERFERE WITH FACILITY OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY THE OWNER A MINIMUM OF 48 HOURS IN ADVANCE OF ALL PLANNED UTILITY OUTAGES AND ROAD CROSSINGS.
16. THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO PROTECT MONITOR WELLS FROM DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE MONITOR WELLS DAMAGED DURING CONSTRUCTION WITH LIKE MATERIALS AND CONSTRUCTION METHODS AS APPROVED BY THE ENGINEER AND FDEP WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD DAMAGE OCCUR TO ANY MONITOR WELLS.
17. THE CONTRACTOR SHALL PREVENT DAMAGE TO THE EXISTING GEOMEMBRANE. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD DAMAGE OCCUR AND PERFORM REPAIRS AS DIRECTED BY THE ENGINEER WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
18. THE CONTRACTOR SHALL PREVENT DISTURBANCE TO AND UNDERMINING OF ADJACENT STRUCTURES, SLABS, PIPING, AND OTHER UTILITIES OR FACILITIES DURING CONSTRUCTION.
19. THE CONTRACTOR SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, GRASSING, SIGNS, AND OTHER IMPROVEMENTS WITH SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER TO EQUAL OR BETTER CONDITION WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
20. THE CONTRACTOR SHALL COMPLY WITH ALL TERMS, CONDITIONS, AND REQUIREMENTS OF ALL APPLICABLE PERMITS, INCLUDING FDEP AND WATER MANAGEMENT DISTRICT PERMITS FOR THE SITE. ALL PERMITS OBTAINED BY THE OWNER WILL BE AVAILABLE TO THE CONTRACTOR.
21. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH EXISTING COUNTY DESIGN AND CONSTRUCTION STANDARDS UNLESS THOSE STANDARDS CONFLICT WITH THESE CONTRACT DOCUMENTS IN WHICH CASE THESE CONTRACT DOCUMENTS SHALL GOVERN. SUCH CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
22. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND TO ABIDE BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT (LAWS OF FLORIDA 90-96) EFFECTIVE OCTOBER 1, 1990.
23. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ENVIRONMENTAL PROTECTION DURING THE LIFE OF THE CONTRACT, INCLUDING THE WARRANTY PERIOD. THE CONTRACTORS' OPERATIONS SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING THOSE PERTAINING TO WATER, AIR, SOLID WASTE, HAZARDOUS WASTE MATERIALS, OILY SUBSTANCES, AND NOISE POLLUTION. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY TO COMPLY WITH THESE REGULATIONS FOR BOTH TEMPORARY AND PERMANENT CONSTRUCTION.
24. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL PROVIDE STORMWATER AND EROSION CONTROL PLANS TO PREVENT WATER FROM PONDING AND CONTROL EROSION AND RUNOFF. NO PONDING OF WATER SHALL BE ALLOWED. THE CONTRACTOR SHALL USE APPROVED CONSTRUCTION TECHNIQUES TO PREVENT EROSION AND SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING PROVIDING EQUIPMENT, LABOR, FILL, ETC NECESSARY TO REMEDIATE AND/OR RESTORE ALL AREAS IMPACTED BY EROSION.

1. THIS PROJECT INVOLVES WORK IN AND AROUND AN ACTIVE CLASS III LANDFILL. THE CONTRACTOR SHALL PROTECT ALL PERSONNEL FROM ALL HAZARDS ASSOCIATED WITH WORKING AT A LANDFILL, INCLUDING CONTACT WITH LEACHATE AND OTHER CONTAMINATED MEDIA, LANDFILL GASES, MICROBIOLOGICAL AIRBORNE CONTAMINANTS, DANGEROUS CHEMICALS, SHARP OBJECTS, AND OTHER HAZARDS (CHEMICAL, PHYSICAL, AND RADIOLOGICAL, ETC.). AT A MINIMUM, THE CONTRACTOR SHALL COMPLY WITH THE BEST MANAGEMENT PRACTICES (MARCH 1992) AVAILABLE FROM THE SOLID WASTE ASSOCIATION OF NORTH AMERICA (SWANA). THE CONTRACTOR SHALL TAKE PRECAUTIONS NECESSARY TO ENSURE WORKER HEALTH AND SAFETY IN COMPLIANCE WITH OSHA CHAPTERS 1910 AND 1926 (SPECIFICALLY WITH 1910.120), AND OTHER APPLICABLE REGULATIONS. A HEALTH AND SAFETY PLAN SHALL BE PREPARED AND APPROVED BY THE CONTRACTOR'S DESIGNATED HEALTH AND SAFETY OFFICER BEFORE ANY WORK ON-SITE.
2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT PERSONNEL FROM ASPHYXIATION, POISONING, EXPLOSION, AND/OR OTHER HAZARDS DUE TO THE PRESENCE OF LANDFILL GASES, LEACHATE, WASTE, ETC.
3. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND ABIDING BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT (LAWS OF FLORIDA 90-96) EFFECTIVE OCTOBER 1, 1990.
4. A SITE-SPECIFIC HEALTH AND SAFETY PLAN SHALL BE PREPARED BY THE CONTRACTOR BEFORE ANY WORK ON-SITE.
5. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A WRITTEN STATEMENT BEFORE BEGINNING WORK THAT HE/SHE WILL COMPLY WITH APPLICABLE TRENCH SAFETY STANDARDS.

DEWATERING NOTES

1. THE CONTRACTOR SHALL OPERATE THE DEWATERING SYSTEM IN ACCORDANCE WITH THE PERMIT, PLANS, AND SPECIFICATION UNTIL ALL PROTECTIVE COVER SOIL IS INSTALLED AND IS VERIFIED BY RECORD SURVEY.
2. DEWATERING SHALL BE PERFORMED BY THE CONTRACTOR TO INSTALL AND CONSTRUCT THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. DEWATERING DISCHARGE SHALL BE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND REQUIREMENTS OF AGENCIES WITH JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A DEWATERING PLAN THAT IS IN ACCORDANCE WITH THE FACILITY'S MASTER DEWATERING PERMIT WITHOUT INCREASE IN CONTRACT PRICE OR TIME.
3. CONTRACTOR SHALL DISCHARGE DEWATERING WATER IN A MANNER THAT PREVENTS EROSION AND THE TRANSPORTATION OF SUSPENDED SOLIDS.
4. CONTRACTOR SHALL MONITOR GROUNDWATER LEVELS WITHIN THE VICINITY OF BOTTOM LINER DEWATERING ACTIVITIES FOR A MINIMUM OF 1 MONTH BEFORE DEWATERING COMMENCES AND SHALL CONTINUE TO MONITOR THROUGHOUT THE DURATION OF DEWATERING.

					DESIGNED	MMORSE	<div><p>JonesEdmunds</p><p>13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-5821</p></div>	<div>LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY CELL 2A CLASS III LANDFILL CONSTRUCTION HENDRY COUNTY, FLORIDA</div>	<div>GENERAL NOTES</div>	APPROVED BY	PROJECT NO:	DATE:
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				CHECKED	TMCKNIGHT	INDEX NO:				DWG NO:		
LTR.	DATE	REVISIONS	BY	APPRD.		TOBIN S. MCKNIGHT				G3		
						P.E. 69187						

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COORDINATE TABLE

POINT	NORTHING	EASTING	DESCRIPTION
1	815768.97	485403.58	LINER
2	815768.97	485929.07	LINER
3	814984.47	485963.04	LINER
4	814984.47	485735.19	LINER
5	814940.39	485704.33	LINER
6	814984.47	485669.87	LINER
7	814984.47	485437.55	LINER
100	815752.31	485716.85	SUMP
101	815655.90	485716.69	SUMP
102	815656.32	485705.02	SUMP
103	815719.29	485683.82	SUMP
104	815688.77	485683.82	SUMP
105	815688.77	485672.05	SUMP
106	815719.29	485669.82	SUMP
107	815688.77	485669.82	SUMP
108	815656.31	485641.82	SUMP
109	815656.15	485637.20	SUMP
110	815751.75	485637.36	SUMP
300	815873.65	485719.05	EOP
301	815853.65	485699.05	EOP
302	815778.97	485699.05	EOP
303	815873.65	485620.61	EOP
304	815853.65	485640.61	EOP
305	815778.97	485640.61	EOP
306	815804.09	485686.82	CONC

COORDINATE TABLE

POINT	NORTHING	EASTING	DESCRIPTION
307	815766.97	485686.82	CONC
308	815766.97	485668.07	CONC
309	815804.09	485668.07	CONC
401	815838.32	485719.04	MES
402	815838.32	485620.56	MES
403	815860.65	485721.77	LFM
404	815860.65	485160.16	LFM
500	815897.65	486343.79	EOP
501	815873.65	486343.79	EOP
502	815853.65	485928.47	EOP
504	815768.97	485868.47	EOP
505	815823.65	485868.47	EOP
506	815897.65	485978.47	EOP
507	815873.65	485978.47	EOP
508	815897.65	485127.85	EOP
509	815873.65	485127.85	EOP

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	MMORSE
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CHECKED	TMCKNIGHT

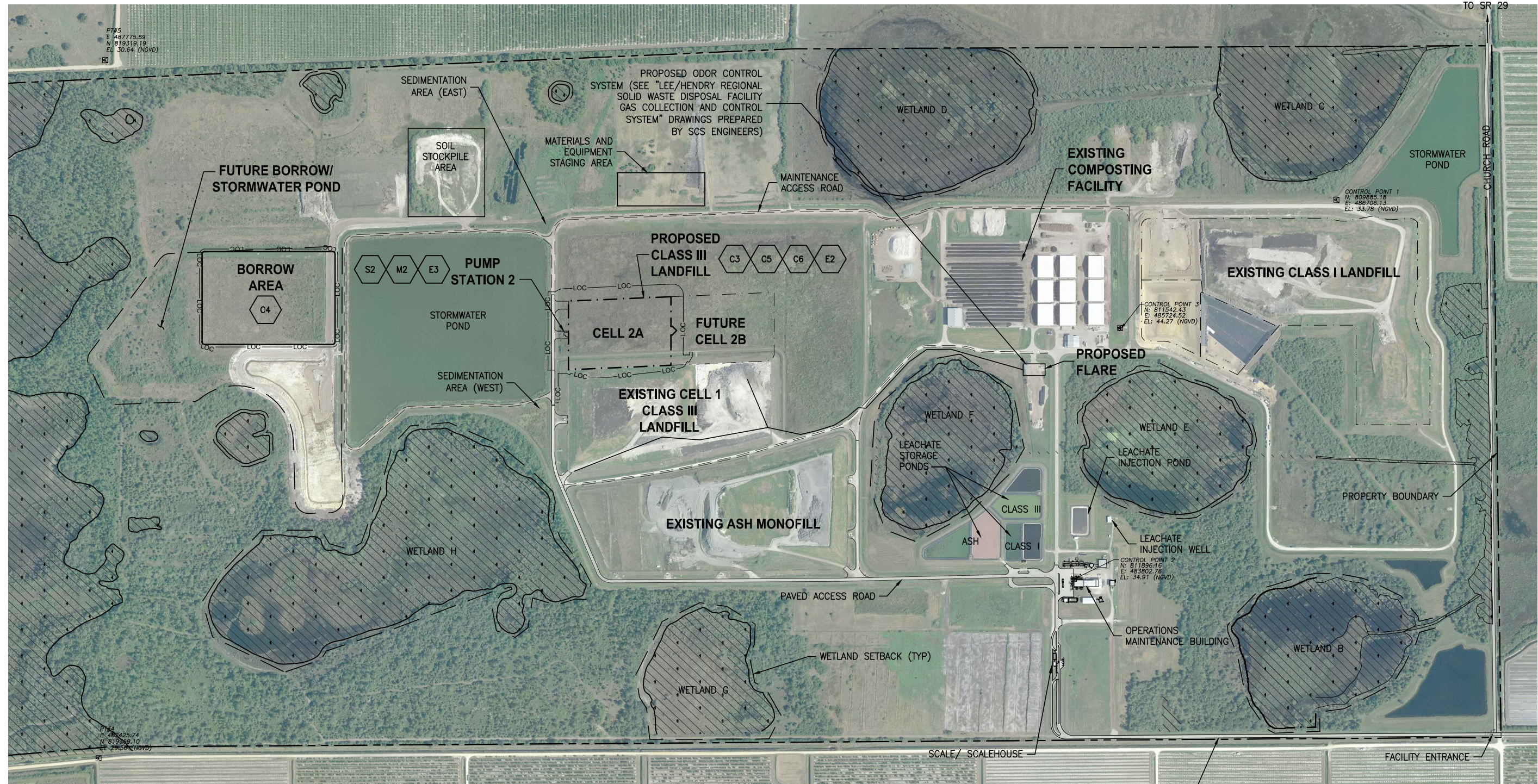
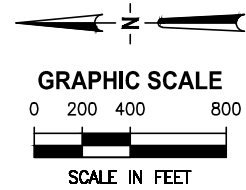
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LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

COORDINATE TABLES

APPROVED BY TOBIN S. MCKNIGHT P.E. 69187	PROJECT NO: 12345-026-01	DATE: JUL 2024
	INDEX NO:	DWG NO: G4



SOUTH CHURCH ROAD TO SR 82 AERIAL PHOTO DATE: 10/3/2023

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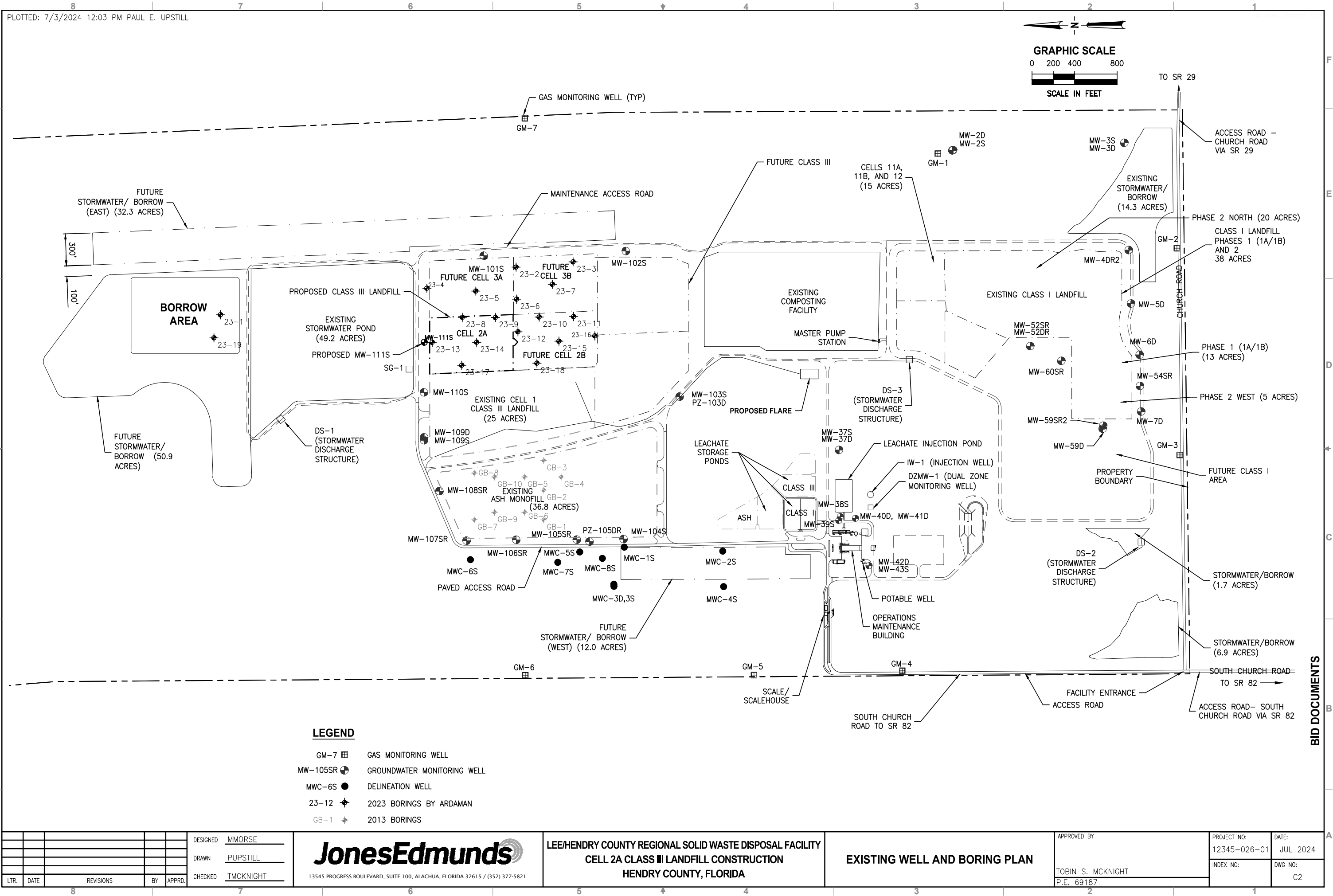
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LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

SITE PLAN AND KEY MAP

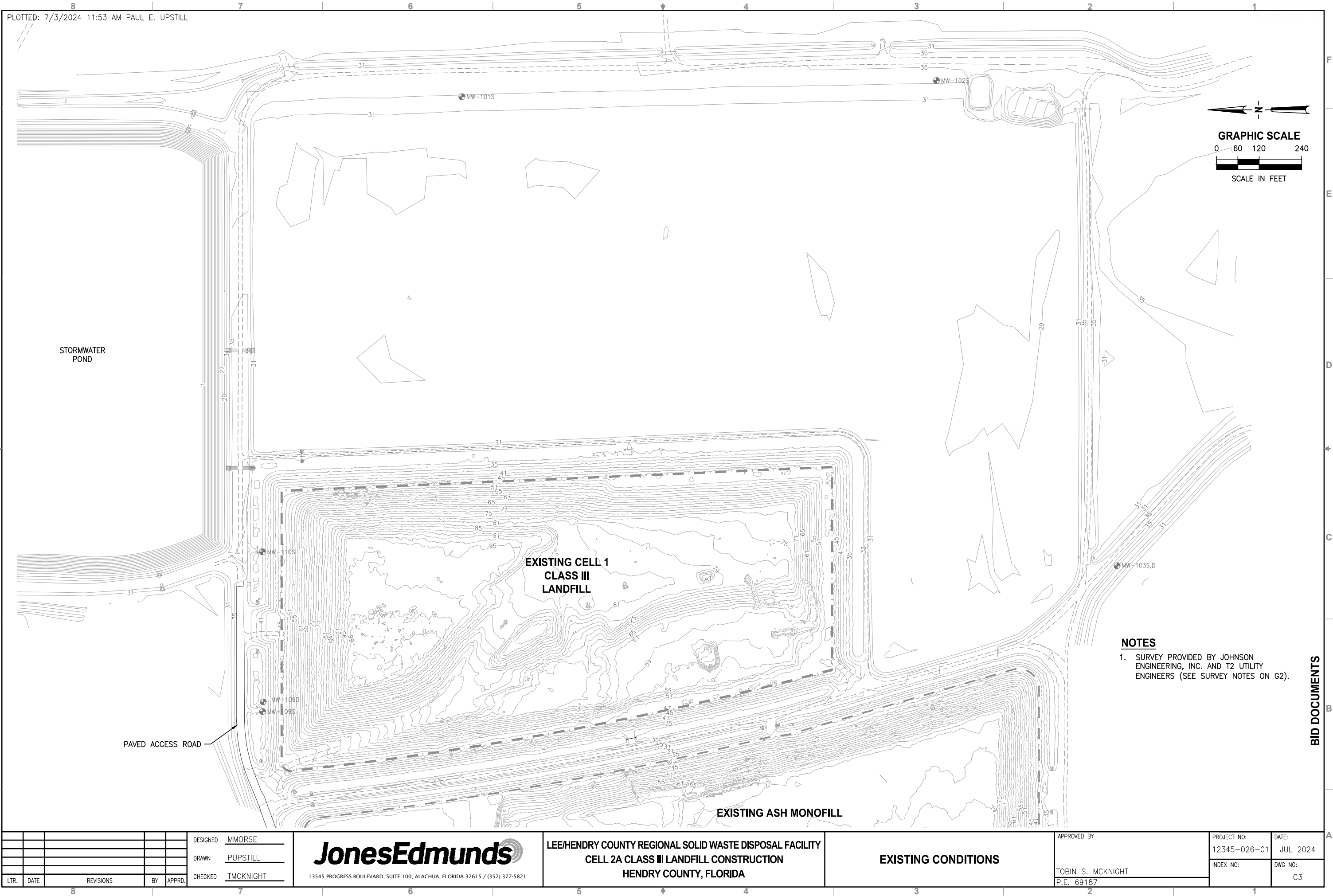
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TOBIN S. MCKNIGHT	12345-026-01	JUL 2024
P.E. 69187	INDEX NO:	DWG NO:
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BID DOCUMENTS

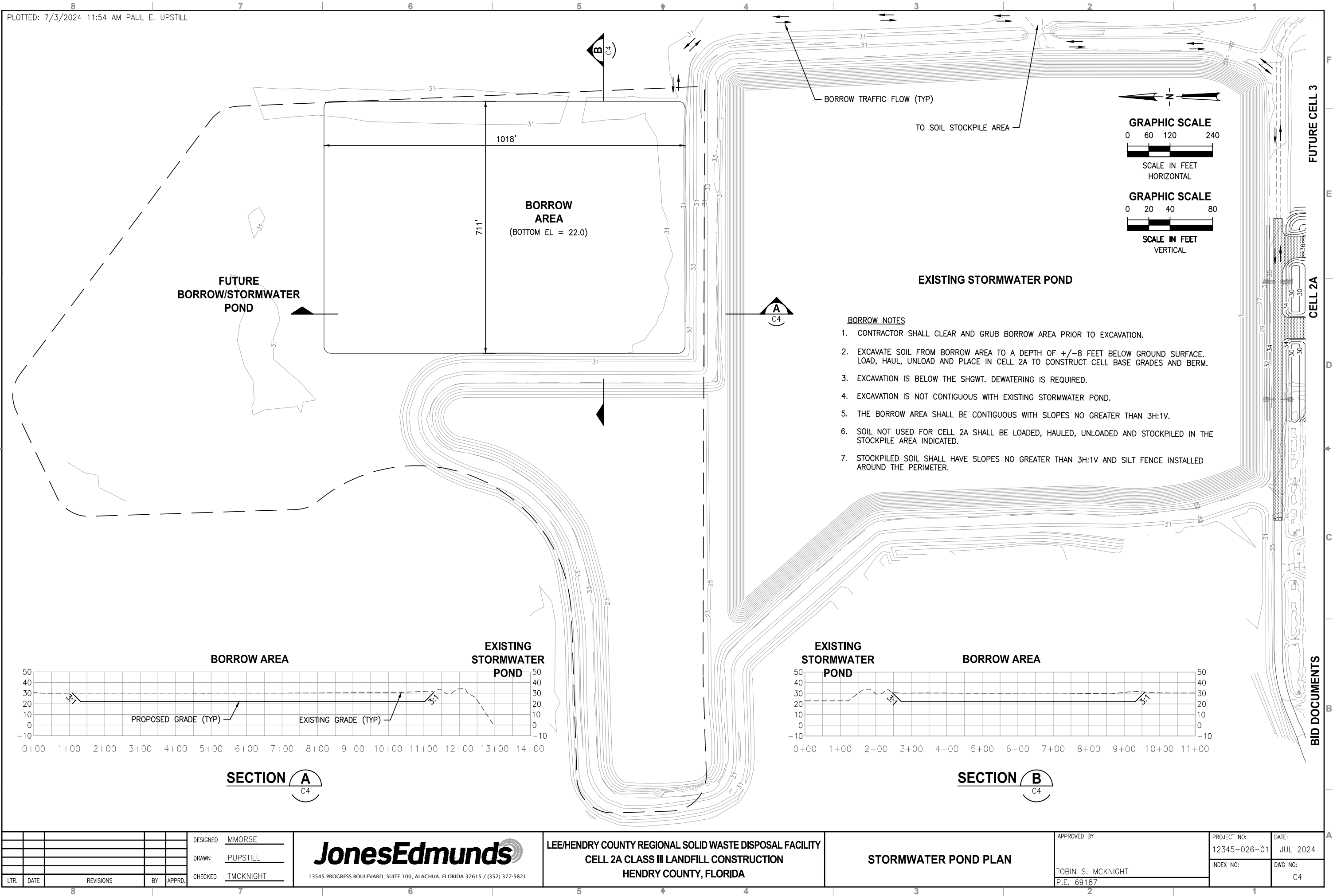


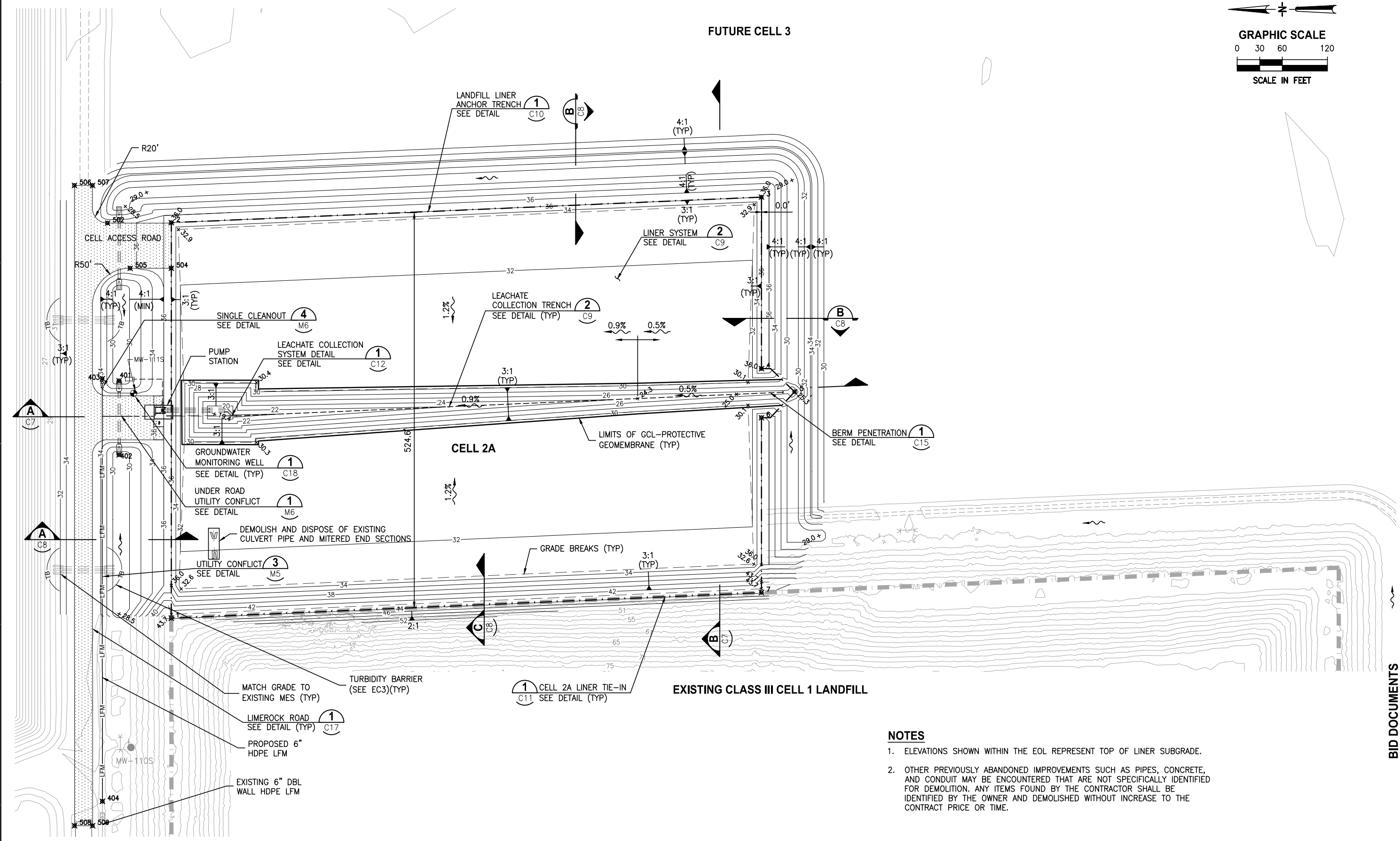
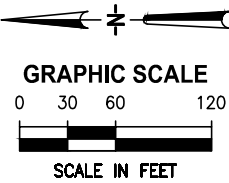
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BID DOCUMENTS



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NOTES

1. ELEVATIONS SHOWN WITHIN THE EOL REPRESENT TOP OF LINER SUBGRADE.
 2. OTHER PREVIOUSLY ABANDONED IMPROVEMENTS SUCH AS PIPES, CONCRETE, AND CONDUIT MAY BE ENCOUNTERED THAT ARE NOT SPECIFICALLY IDENTIFIED FOR DEMOLITION. ANY ITEMS FOUND BY THE CONTRACTOR SHALL BE IDENTIFIED BY THE OWNER AND DEMOLISHED WITHOUT INCREASE TO THE CONTRACT PRICE OR TIME.

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CHECKED	TMCKNIGHT

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LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
 CELL 2A CLASS III LANDFILL CONSTRUCTION
 HENDRY COUNTY, FLORIDA

LEACHATE COLLECTION SYSTEM PLAN

APPROVED BY	PROJECT NO:	DATE:
TOBIN S. MCKNIGHT	12345-026-01	JUL 2024
P.E. 69187	INDEX NO:	DWG NO:
		C5



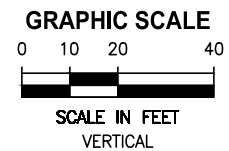
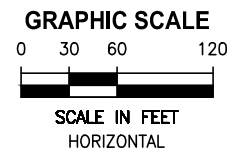
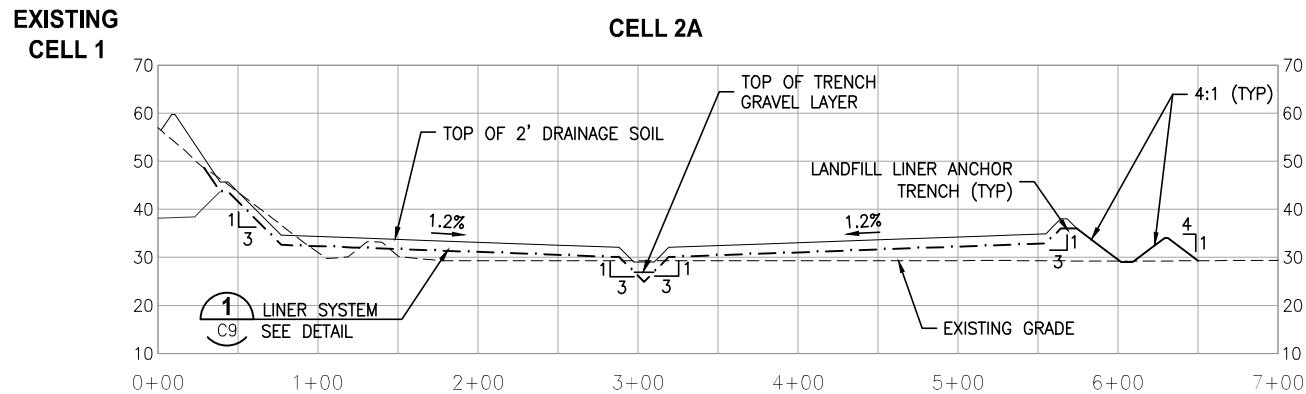
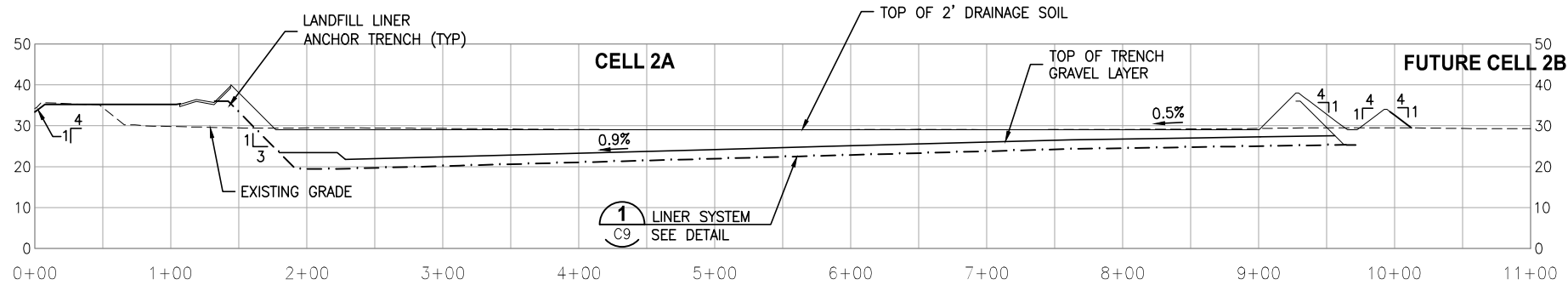
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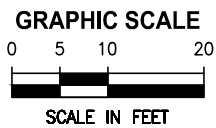
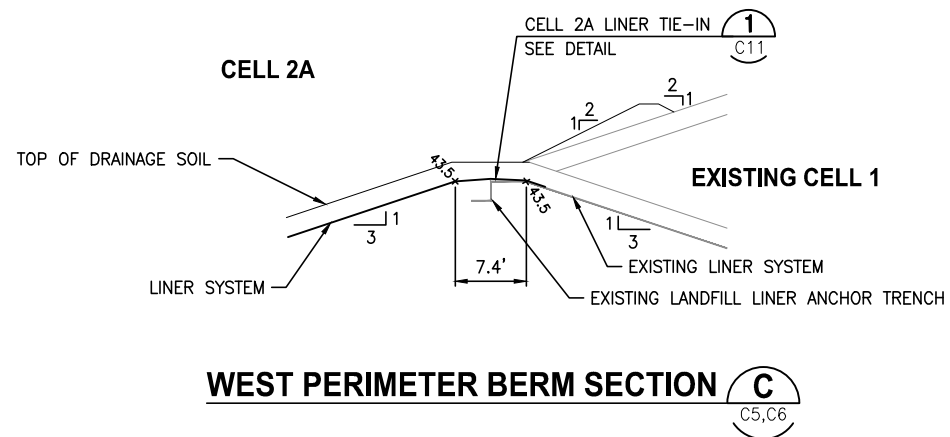
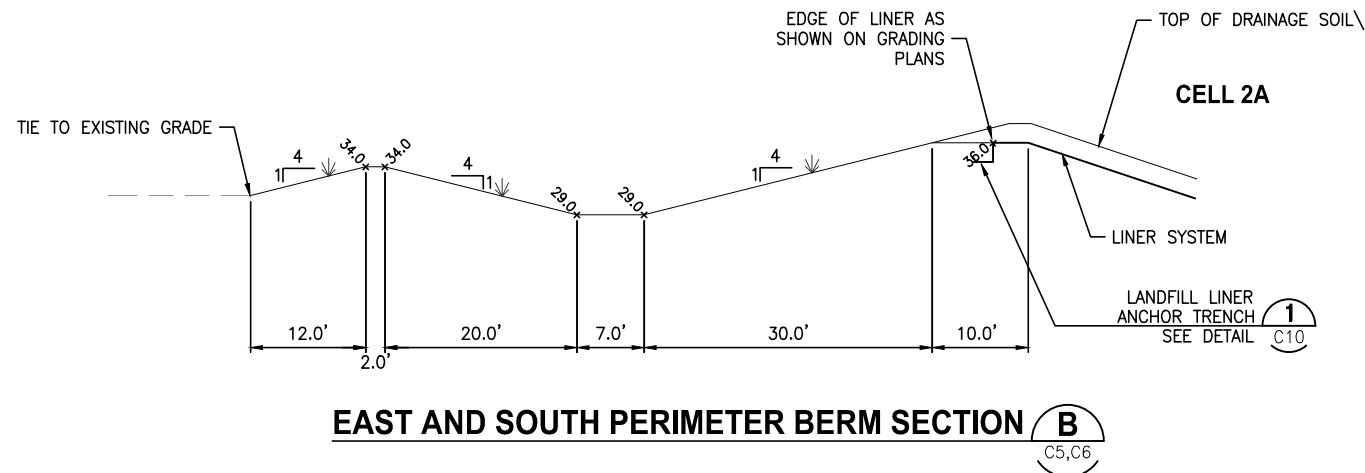
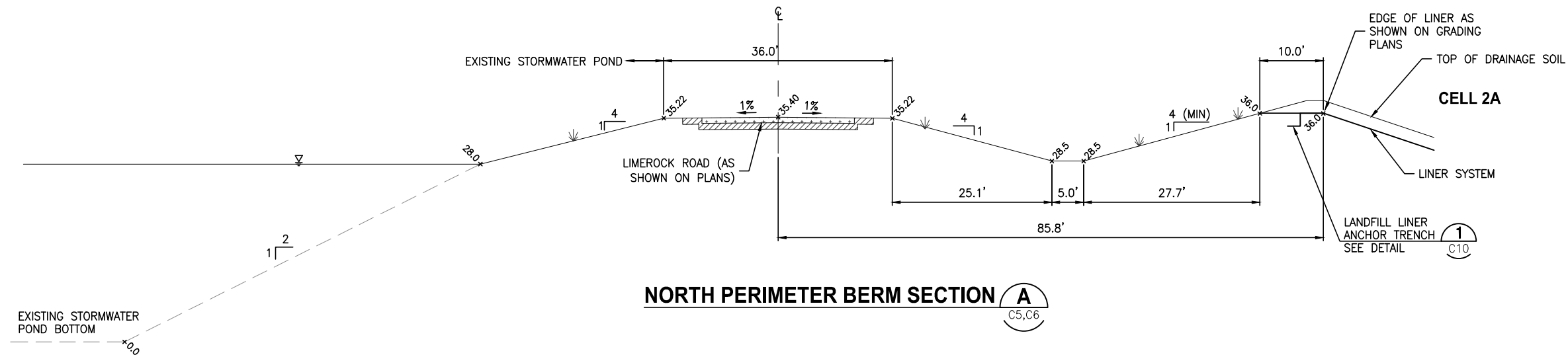
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LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA


LANDFILL SECTIONS

APPROVED BY	PROJECT NO: 12345-026-01	DATE: JUL 2024
TOBIN S. MCKNIGHT P.E. 69187	INDEX NO:	DWG NO: C7

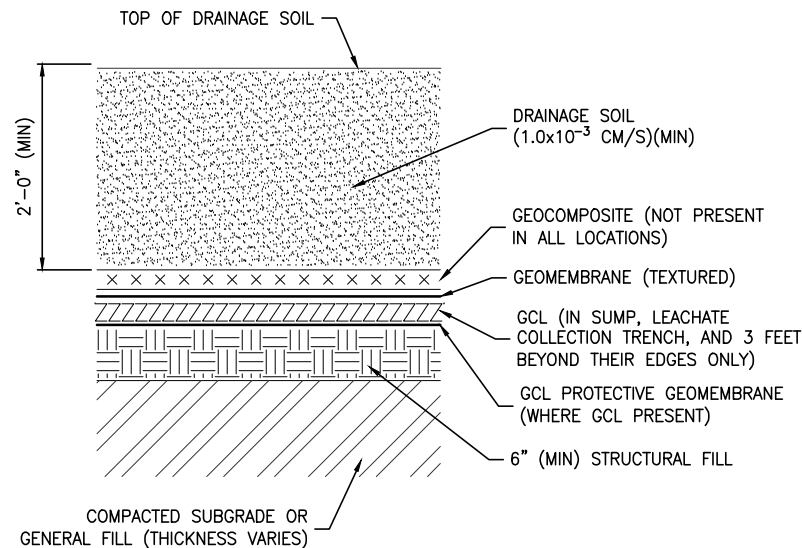
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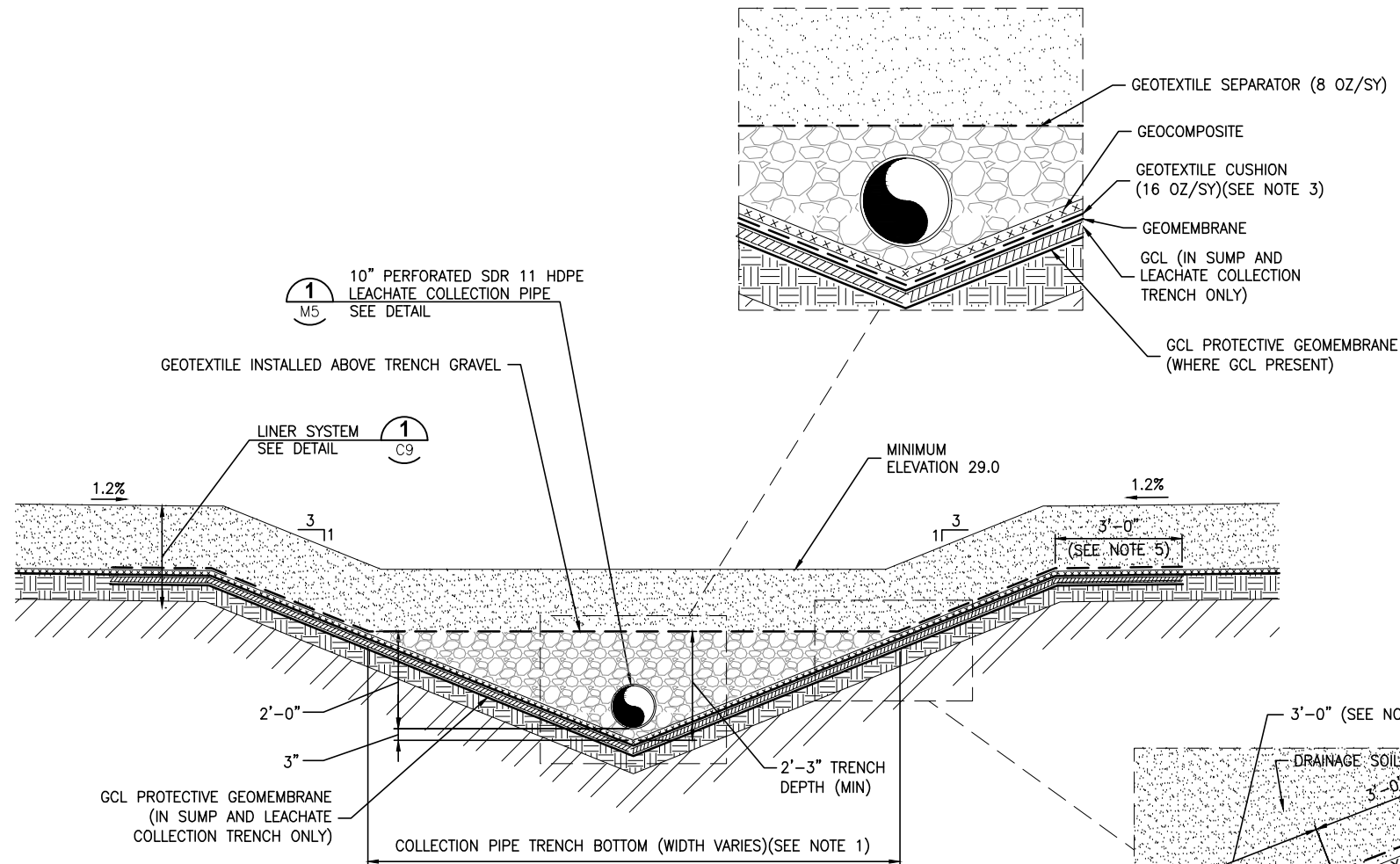
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		DRAWN	PUPSTILL					INDEX NO:	DWG NO:
		CHECKED	TMCKNIGHT						C8
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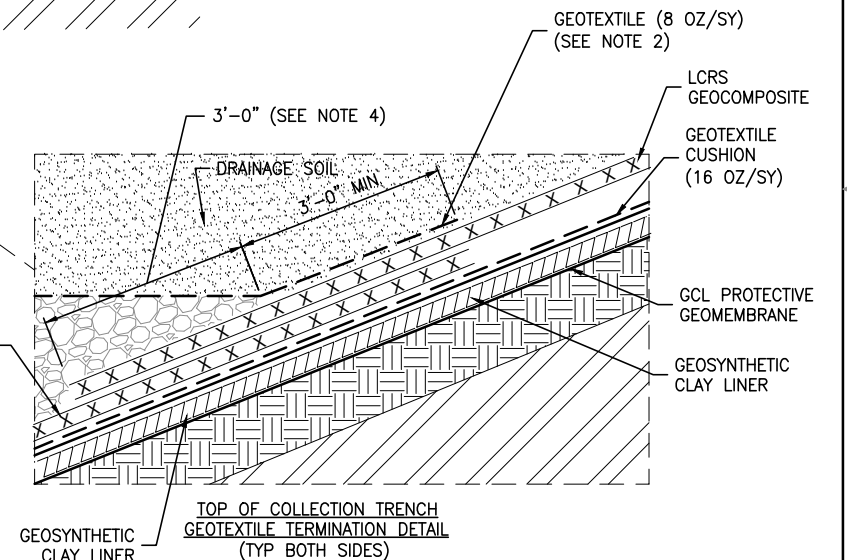


LINER SYSTEM DETAIL 1
NTS
C5,C6,C7,C9,C10,C11



- NOTES:**
1. TRENCH BOTTOM GEOCOMPOSITE INSTALLED ON THE TRENCH BOTTOM SHALL COVER THE ENTIRE GRAVEL WIDTH AND LENGTH OF THE TRENCH BOTTOM.
 2. SEAM GEOTEXTILE OVERLYING THE TRENCH GRAVEL TO THE GEOCOMPOSITE UPPER GEOTEXTILE ALONG THE LENGTH OF THE TRENCH (BOTH SIDES) TO CREATE CONTINUOUS GEOTEXTILE BARRIER SO THAT SAND IS NOT PERMITTED TO INFILTRATE GRAVEL AND GEONET.
 3. A MINIMUM OF 16 oz GEOTEXTILE AND GEOCOMPOSITE (32 oz GEOTEXTILE TOTAL) SHALL BE PLACED BETWEEN LINER AND GRAVEL AT ALL LOCATIONS.
 4. LCRS GEOCOMPOSITE SHALL BE OVERLAPPED 3' OVER TRENCH BOTTOM GEOCOMPOSITE. THE TRENCH END OF THE LCRS GEOCOMPOSITE SHALL BE LEFT OPEN AND NOT WRAPPED WITH GEOTEXTILE TO ALLOW FOR UNIMPEDED FLOW INTO THE GRAVEL LAYER WITHOUT PASSING THROUGH A GEOTEXTILE LAYER.
 5. EXTEND GCL 3 FEET BEYOND EDGES OF LEACHATE COLLECTION TRENCH AND SUMP.

LEACHATE COLLECTION TRENCH DETAIL 2
NTS
C5,C6



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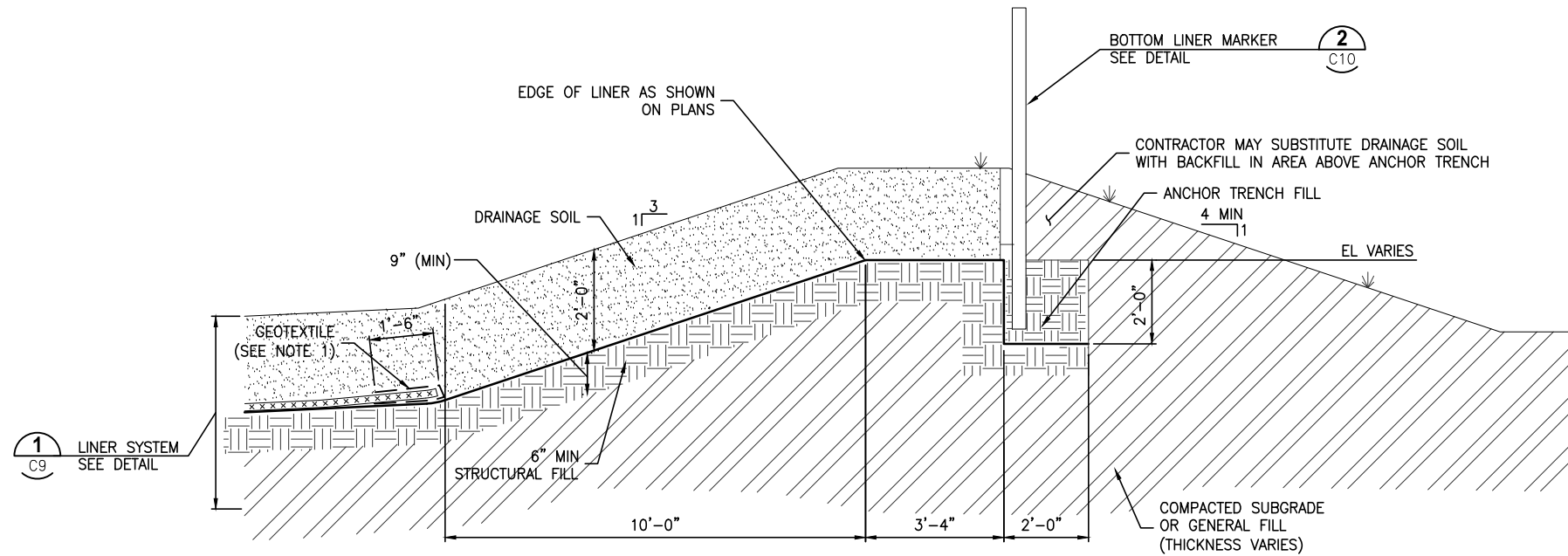
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CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

LINER SYSTEM DETAILS

APPROVED BY	PROJECT NO:	DATE:
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P.E. 69187	INDEX NO:	DWG NO:
		C9

PROJECT NO:	DATE:
12345-026-01	JUL 2024
INDEX NO:	DWG NO:
	C9

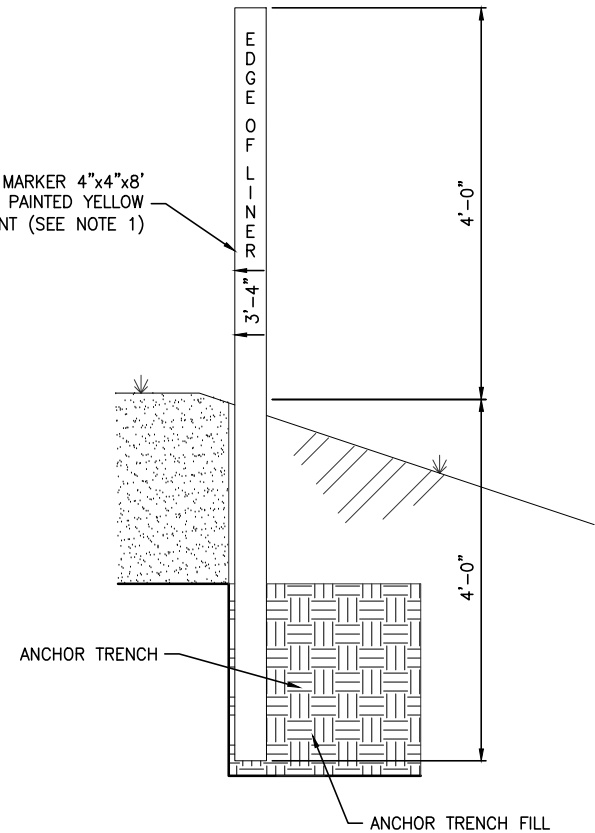
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NOTES:
1. TERMINATE GEOCOMPOSITE AT TOE OF SLOPE UNLESS OTHERWISE INDICATED ON DRAWINGS. WRAP END OF GEOCOMPOSITE WITH 3' WIDE STRIP OF GEOTEXTILE TO PREVENT SAND INFILTRATION.

LANDFILL LINER ANCHOR TRENCH DETAIL 1
NTS C5,C6,C8,C10

EDGE OF LINER MARKER 4"x4"x8'
TREATED WOOD POST, PAINTED YELLOW
WITH OSHA SAFETY PAINT (SEE NOTE 1)



NOTES:
1. INSTALL POSTS AT 50'-0" INTERVALS AROUND PERIMETER.

BOTTOM LINER MARKER DETAIL 2
NTS C10,C15

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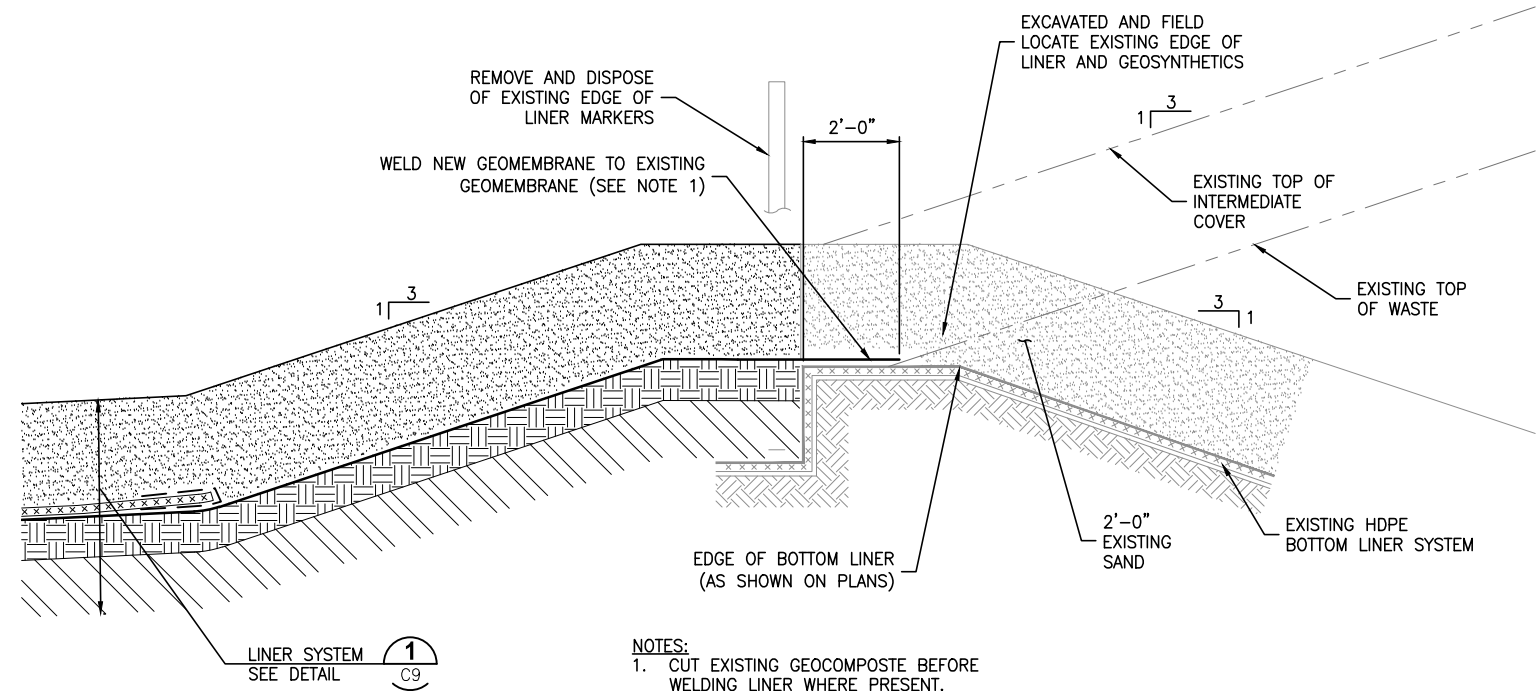
LINER SYSTEM DETAILS

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	INDEX NO:	DWG NO: C10

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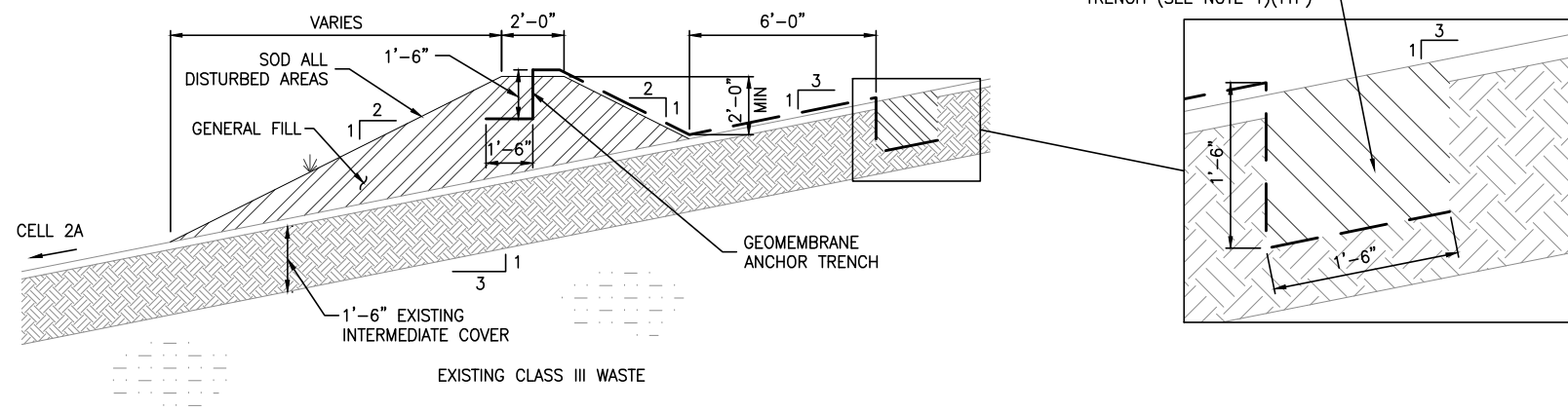
CELL 2A

EXISTING CELL 1



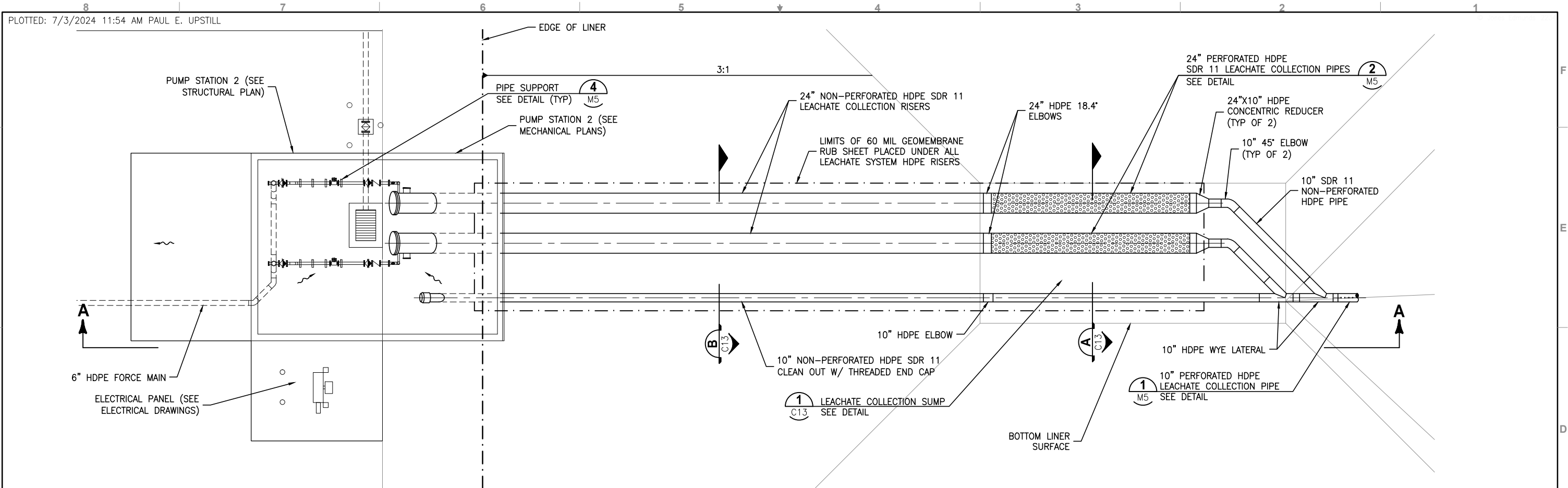
CELL 2A LINER TIE-IN DETAIL 1
NTS C5,C6,C8

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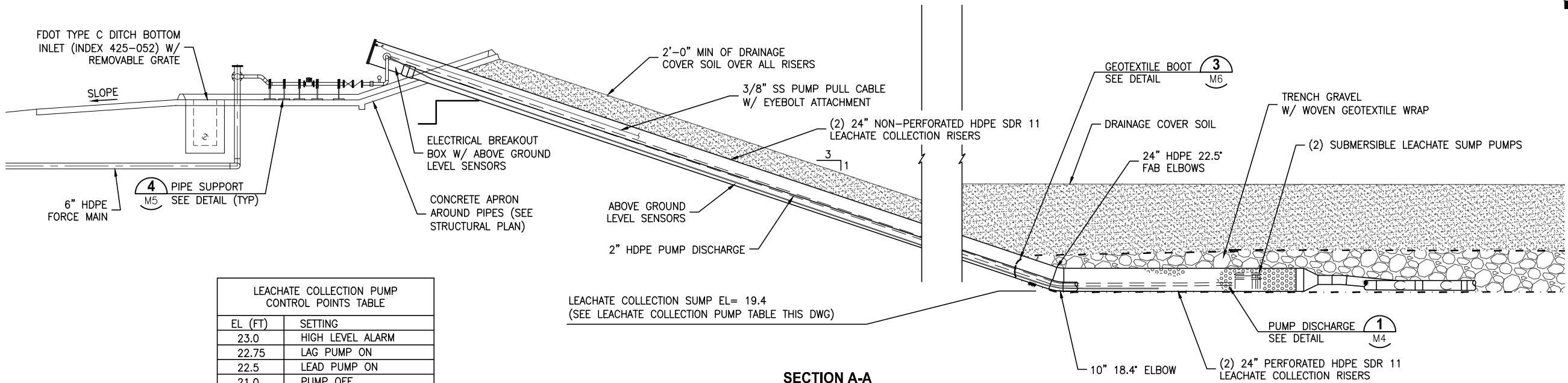
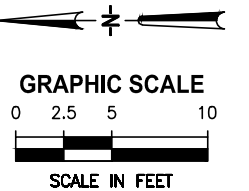


CELL 1 STORMWATER DIVERSION BERM SECTION A
NTS C7

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				CHECKED	TMCKNIGHT				P.E. 69187		INDEX NO:	DWG NO:
LTR.	DATE	REVISIONS	BY	APPRD.								C11



PLAN



SECTION A-A

LEACHATE COLLECTION SYSTEM DETAIL (1) C5,C6

LEACHATE COLLECTION PUMP CONTROL POINTS TABLE	
EL. (FT)	SETTING
23.0	HIGH LEVEL ALARM
22.75	LAG PUMP ON
22.5	LEAD PUMP ON
21.0	PUMP OFF
20.0	LOW LEVEL ALARM

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CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

LEACHATE SUMP DETAIL

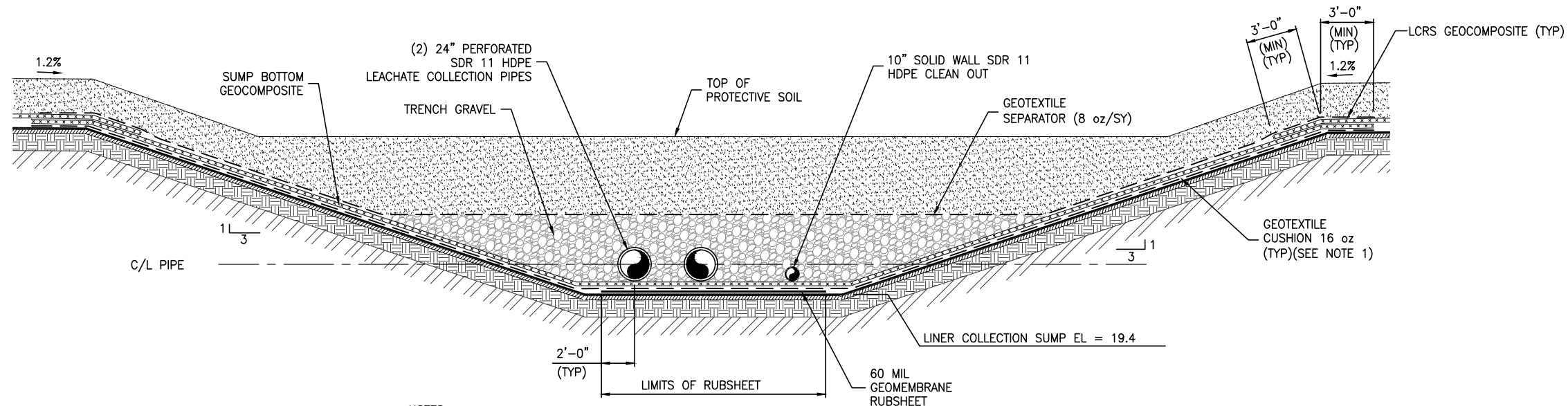
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INDEX NO:	DWG NO:
	C12

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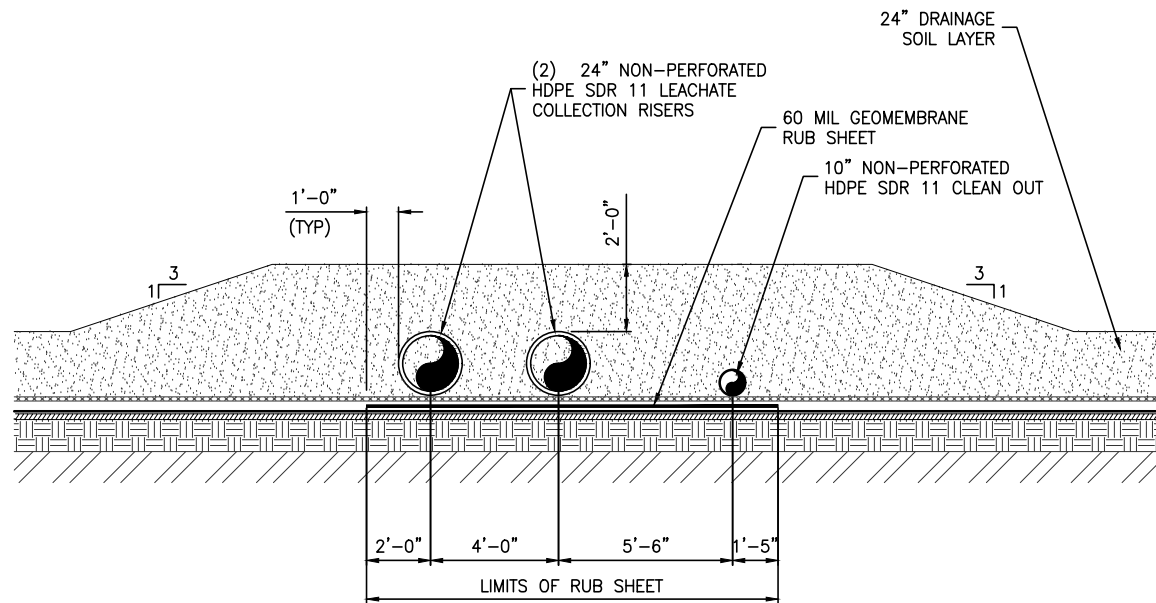
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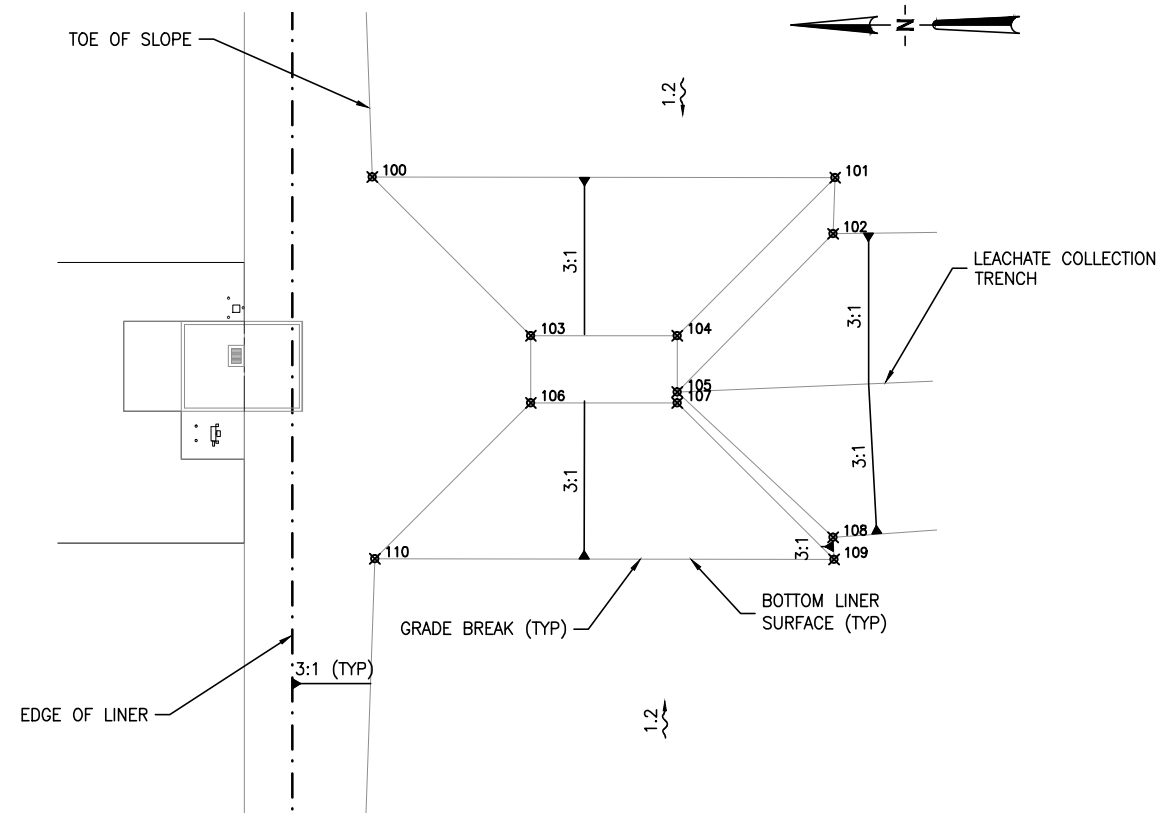


- NOTES:
1. A MINIMUM OF 16 oz GEOTEXTILE AND GEOCOMPOSITE (32 oz GEOTEXTILE TOTAL) SHALL BE PLACED BETWEEN LINER AND GRAVEL AT ALL LOCATIONS.

LEACHATE COLLECTION SUMP SECTION A
NTS C12




SECTION B
NTS C12



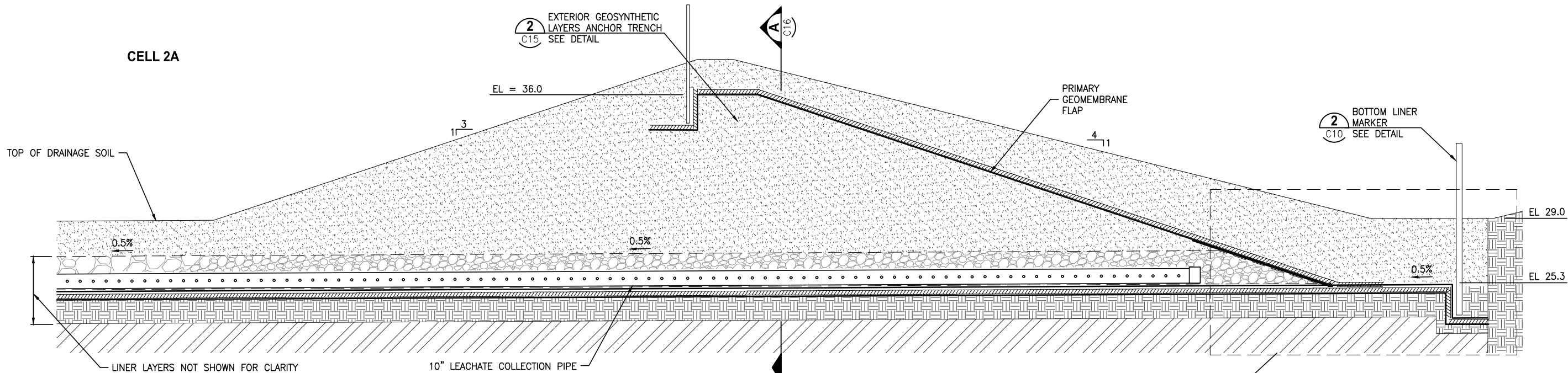
LEACHATE COLLECTION SUMP DETAIL 1
NTS C12

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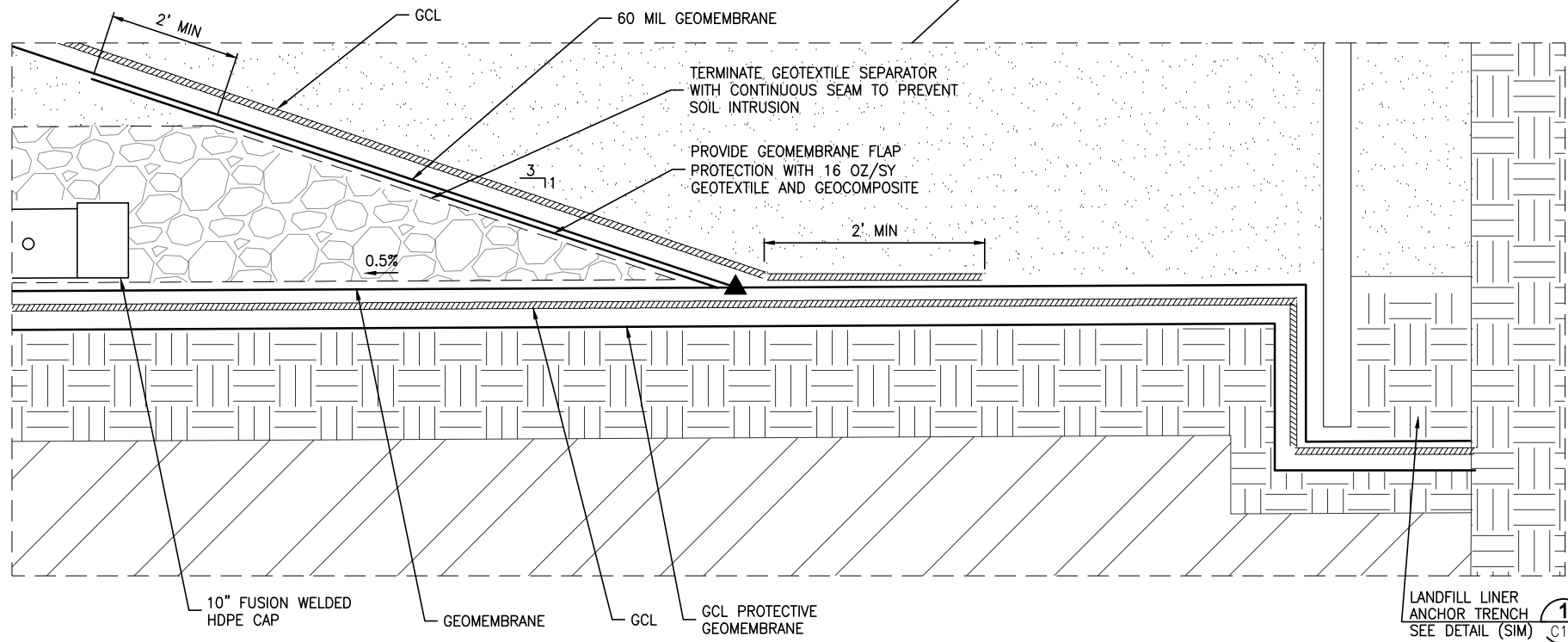


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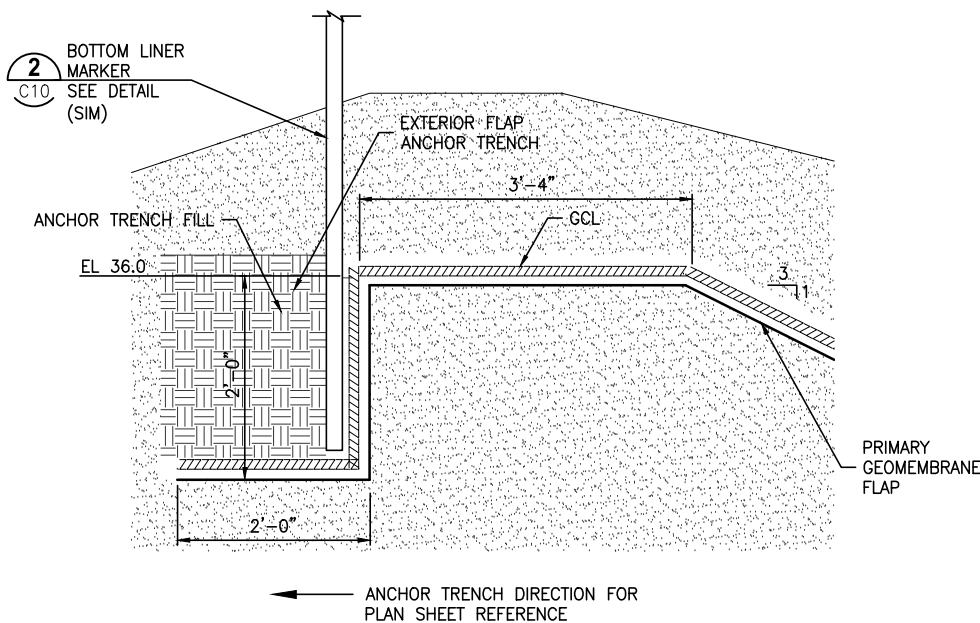
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BERM PENETRATION DETAIL 1
NTS
C5,C6,C16



LANDFILL LINER ANCHOR TRENCH 1
SEE DETAIL (SIM)
C10



EXTERIOR GEOSYNTHETIC LAYERS ANCHOR TRENCH DETAIL 2
NTS
C15

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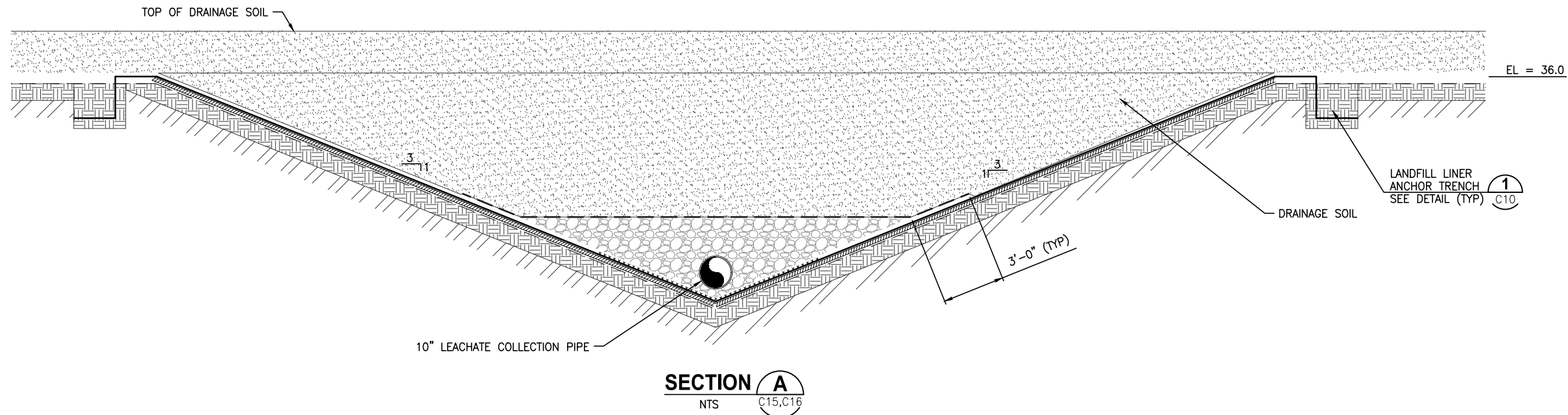
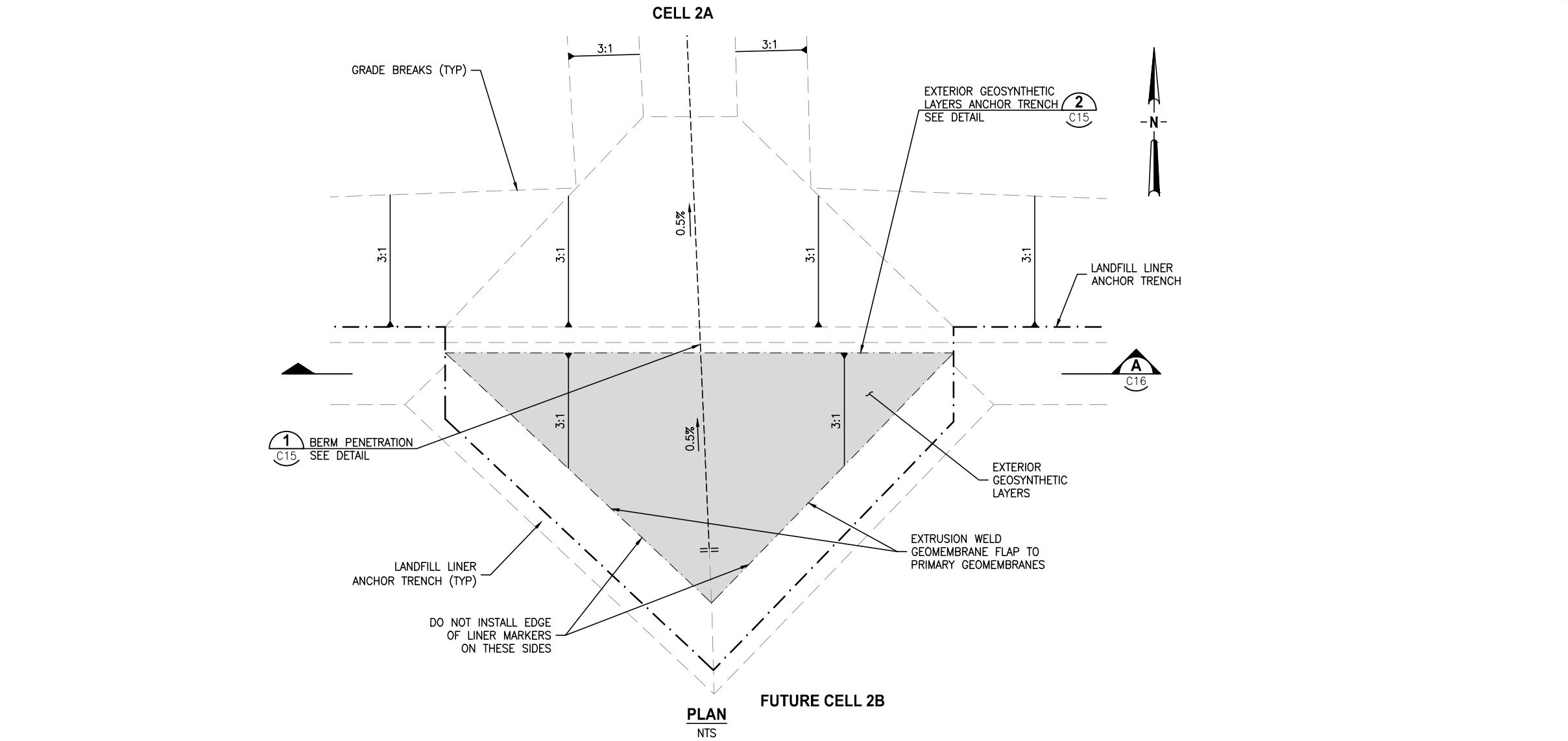
LANDFILL DETAILS

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INDEX NO:	DWG NO:
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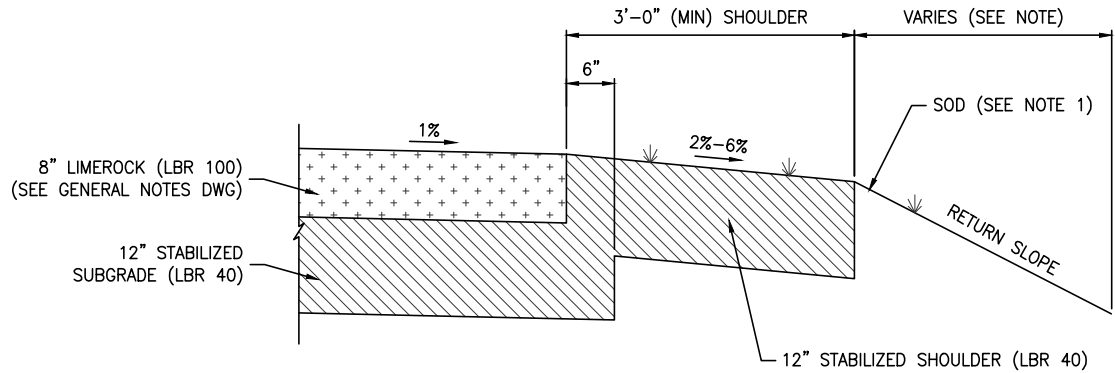
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HENDRY COUNTY, FLORIDA

LANDFILL DETAILS

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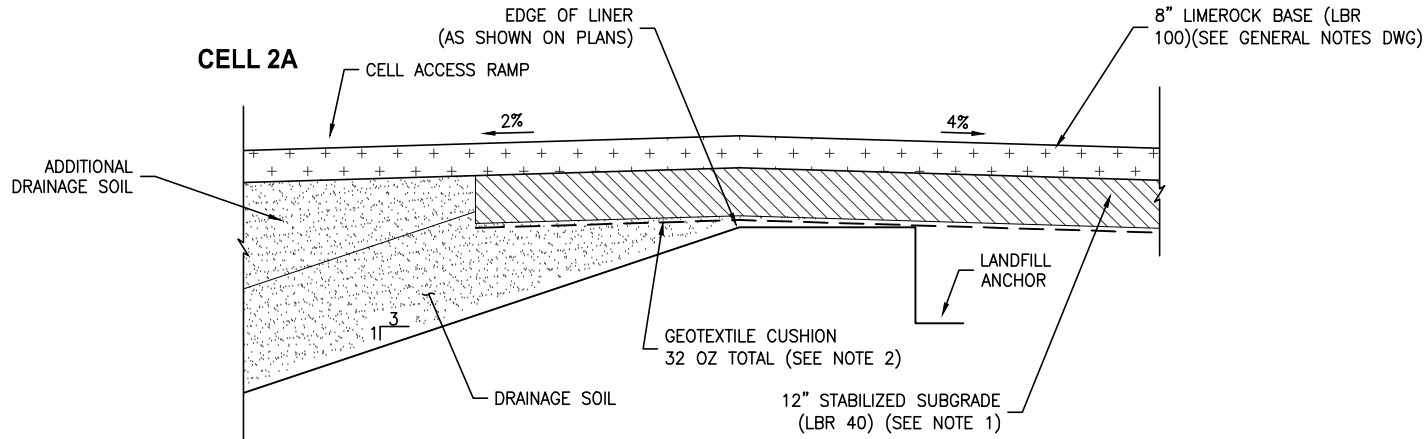
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NOTES:
1. SOD ALL DISTURBED AREAS.

TYPICAL LIMEROCK ROAD DETAIL **1**
NTS C5,C14,M6



NOTES:
1. STABILIZED SUBGRADE INSTALLED WITHIN 12" OF PRIMARY GEOMEMBRANE SHALL BE FIRM AND UNYIELDING. THE MEASURE OF FIRM AND UNYIELDING SHALL BE AS FOLLOWS: CONSTRUCTION EQUIPMENT SHALL NOT MAKE DEPRESSIONS IN THE FINISHED SUBBASE SURFACE GREATER THAN 1/8" WHEN USING REASONABLE AND INDUSTRY STANDARD EQUIPMENT AND METHODS.
2. INSTALL 32 OZ/SY GEOTEXTILE BETWEEN STABILIZED SUBGRADE AND GEOMEMBRANE IN LOCATION OF LINER CROSSING.

EDGE OF LINER CROSSING SECTION **A**
NTS C6

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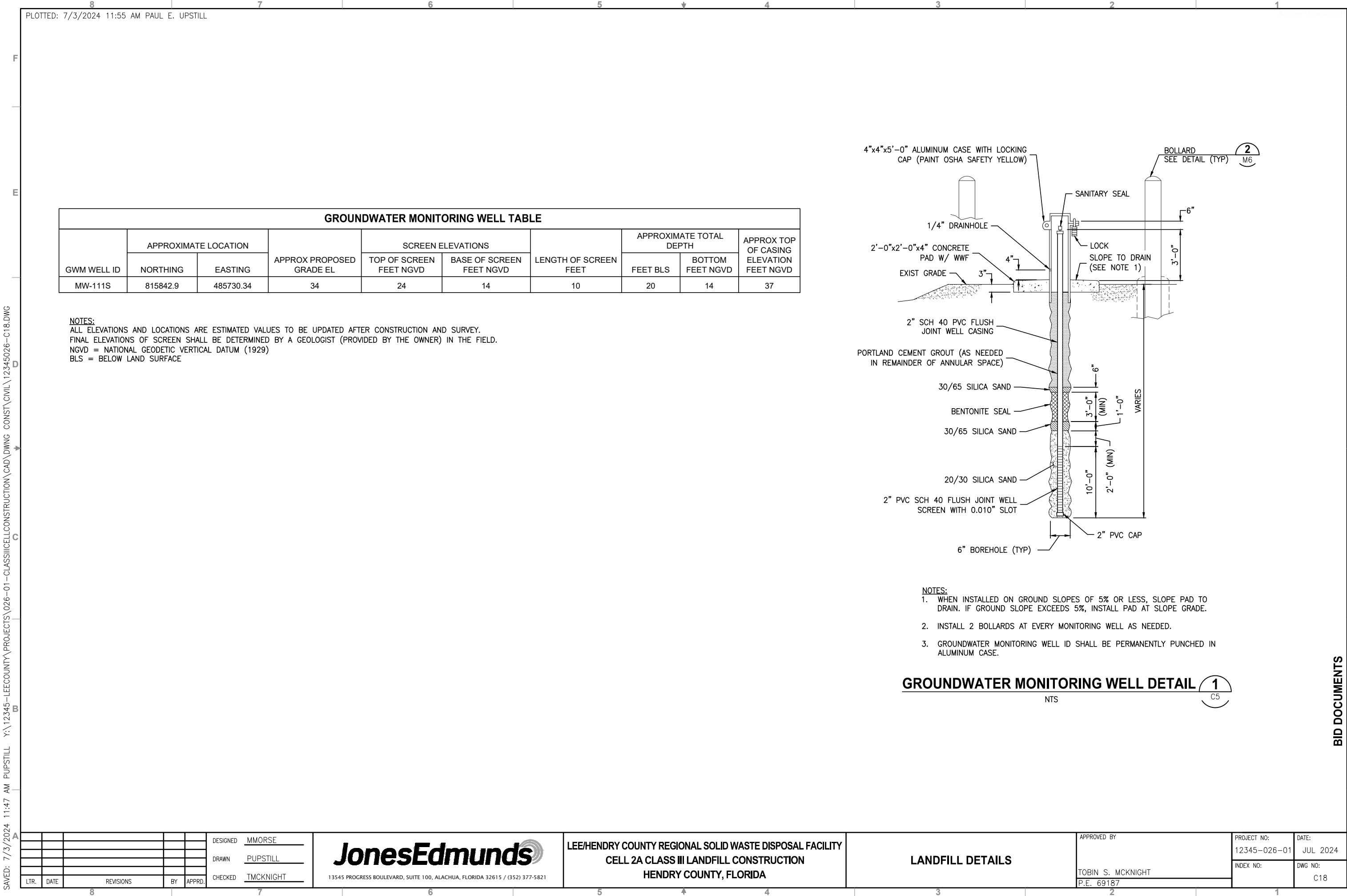
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LANDFILL DETAILS

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CAST-IN-PLACE CONCRETE QUALITY CONTROL TESTING

1. THE CONTRACTOR SHALL HIRE A TESTING AGENCY MEETING THE REQUIREMENTS OF ASTM E329 TO PERFORM FIELD AND LABORATORY TESTS.
2. THE TESTING AGENCY SHALL TAKE SETS OF THREE CONCRETE TEST CYLINDERS DURING THE PROGRESS OF THE WORK IN ACCORDANCE WITH ASTM C31. THE NUMBER OF SETS OF CONCRETE TEST CYLINDERS TAKEN EACH DAY SHALL NOT BE FEWER THAN THREE SETS OR LESS THAN ONE SET FOR EACH 50 CUBIC YARDS OF CONCRETE.
3. THE TESTING AGENCY SHALL TEST EACH SET OF CONCRETE TEST CYLINDERS IN ACCORDANCE WITH ASTM C39. ONE CYLINDER SHALL BE TESTED AT 7 DAYS AND TWO CYLINDERS SHALL BE TESTED AT 28 DAYS FOR EACH SET OF CONCRETE TEST CYLINDERS. SUBMIT TEST REPORTS TO THE ENGINEER FOR APPROVAL.
4. THE TESTING AGENCY SHALL PERFORM SLUMP TESTS OF CONCRETE IN ACCORDANCE WITH ASTM C143. THE NUMBER OF SLUMP TESTS SHALL BE 1 FOR EACH REQUIRED SET OF CONCRETE STRENGTH TEST CYLINDERS. SUBMIT TEST REPORTS TO THE ENGINEER FOR APPROVAL.

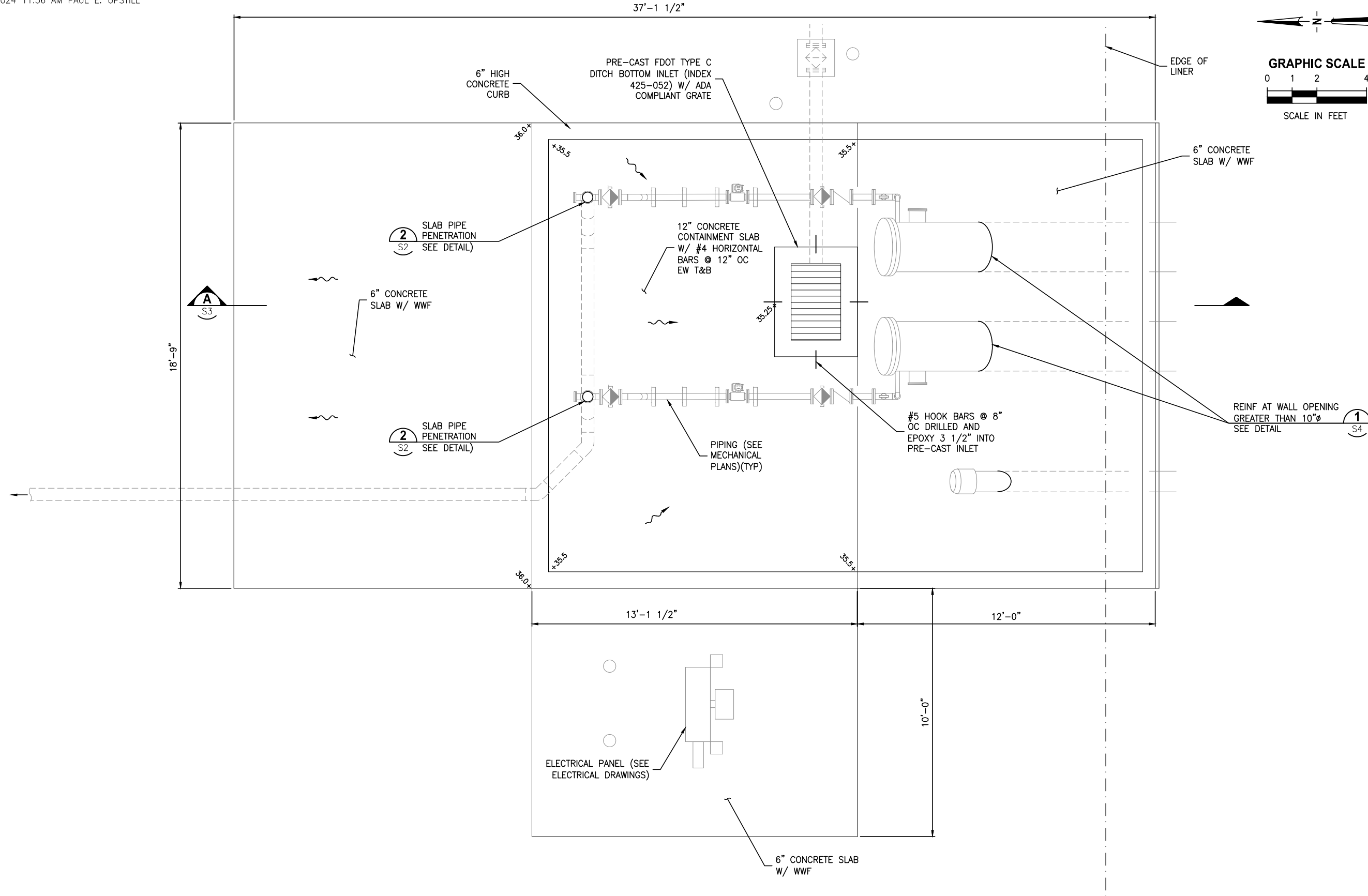
REBAR SIZE	MINIMUM SPLICE AND HOOK LENGTHS		
	L _{lap}	L _{sh}	L _{th}
#3	19"	6"	6"
#4	30"	7"	8"
#5	36"	9"	10"
#6	40"	11"	12"

The diagram illustrates the required lengths for rebar splicing. It shows a horizontal rebar with a lap joint of length L_{lap} . To the right, a hook is shown with a development length L_{sh} and a hook length L_{th} .

1. BEND DIAMETER (ϕ_b) SHALL BE 6 TIMES THE BAR DIAMETER.
2. L_{lap} - LAP SPLICE DEVELOPMENT LENGTH
 L_{dh} - HOOK DEVELOPMENT LENGTH
 L_{th} - HOOK TAIL LENGTH

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						CHECKED	TMCKNIGHT					INDEX NO:	DWG NO:
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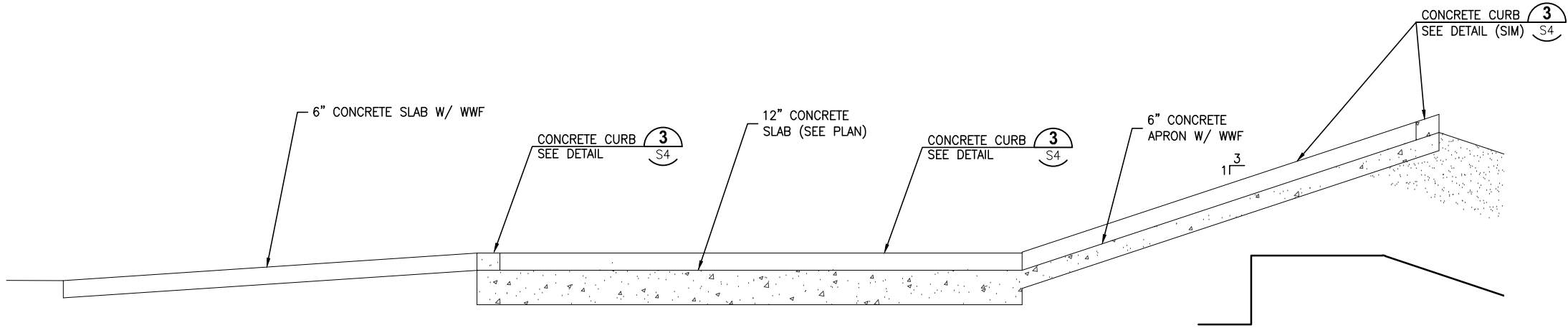
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HENDRY COUNTY, FLORIDA

PUMP STATION STRUCTURAL PLAN

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- NOTES:
- 1. PIPING AND ELECTRICAL NOT SHOWN FOR CLARITY.
 - 2. CONCRETE REINFORCEMENT NOT SHOWN FOR CLARET.

SECTION **A**
NTS S2

					DESIGNED	MMORSE
					DRAWN	PUPSTILL
					CHECKED	TMCKNIGHT
LTR.	DATE	REVISIONS	BY	APPRD.		

JonesEdmunds

13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-5821

LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

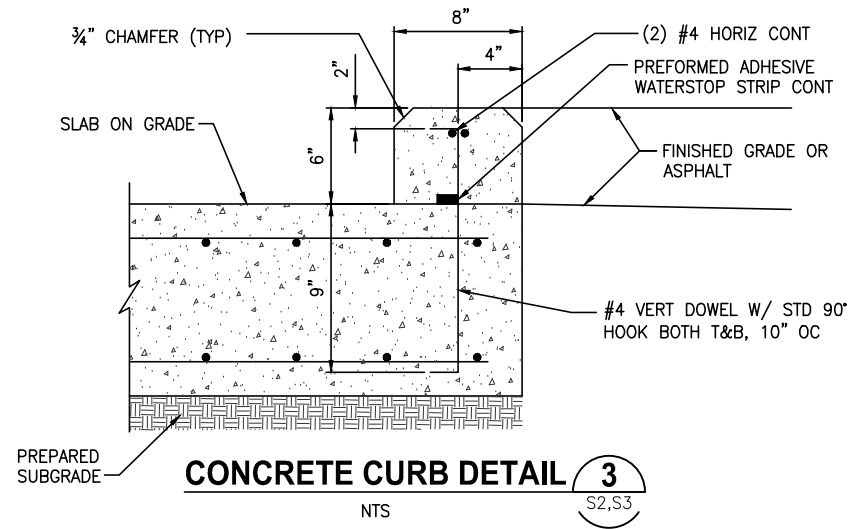
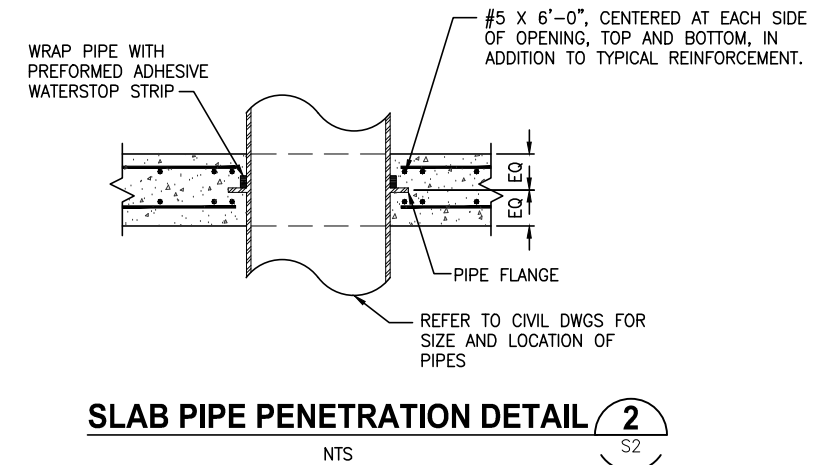
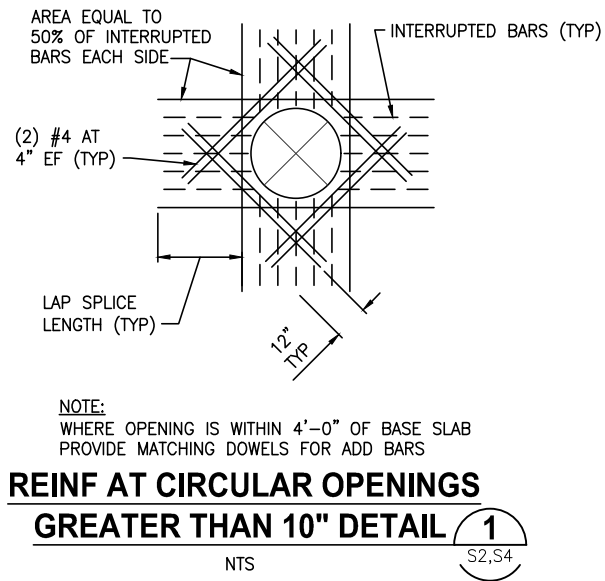
STRUCTURAL SECTION AND DETAILS

PROJECT NO: 12345-026-01	DATE: JUL 2024
INDEX NO:	DWG NO: S3

BID DOCUMENTS

SAVED: 7/3/2024 11:47 AM PUPSTILL Y:\12345-LEECOUNTY\PROJECTS\026-01-CLASSIIICELLCONSTRUCTION\CAD\DWG CONST\STRUCTURAL\12345026-S04.DWG

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PLOTTED: 7/3/2024 11:56 AM PAUL E. UPSTILL



					DESIGNED	MMORSE
					DRAWN	PUPSTILL
					CHECKED	TMCKNIGHT
LTR.	DATE	REVISIONS	BY	APPRD.		

JonesEdmunds
13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-5821

LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

STRUCTURAL DETAILS

PROJECT NO: 12345-026-01	DATE: JUL 2024
INDEX NO:	DWG NO: S4

BID DOCUMENTS

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PLOTTED: 7/3/2024 11:56 AM PAUL E. UPSTILL

MECHANICAL ABBREVIATIONS

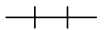
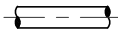
&	AND
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BLD	BLIND
BV	BALL VALVE
BWJ	BUTT-WELDED JOINT
CI	CAST IRON
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
D	DEPTH
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
ELL	ELBOW
FIG	FIGURE
FJ	FLANGED JOINT
FLG	FLANGE
FM	FORCEMAIN
FNPT	FEMALE NATIONAL PIPE THREAD
FRP	FIBERGLASS REINFORCED PLASTIC
GALV	GALVANIZED
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INT	INTERNATIONAL
L	LENGTH
LFM	LEACHATE FORCE MAIN
LR	LONG RADIUS
MIN	MINIMUM
MJ	MECHANICAL JOINT
MNPT	MALE NATIONAL PIPE THREAD
No.	NUMBER
NPT	AMER. STD. TAPER PIPE THREAD
OC	ON CENTER(S), OPEN-CLOSE(D)
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PE	PLAIN END
PSIG	POUNDS PER SQUARE INCH, GAUGE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
REQ.	REQUIRED
REQ'D	REQUIRED
RTR	REINFORCED THERMOSETTING RESIN
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SOF	SLIP-ON FLANGE
SS	STAINLESS STEEL
THRD	THREADED
TYP	TYPICAL
W	WIDTH
W/	WITH
WJ	WELDED JOINT
WWF	WELDED WIRE FABRIC
XLPE	CROSS-LINKED POLYETHYLENE
XX	ACTUATOR NUMBER DESIGNATION

MECHANICAL

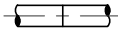
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BLD	BLIND
BV	BALL VALVE
BWJ	BUTT-WELDED JOINT
CMP	CORRUGATED METAL PIPE
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
ELL	ELBOW
FJ	FLANGED JOINT
FLG	FLANGE
FRP	FIBERGLASS REINFORCED PLASTIC
LR	LONG RADIUS
MJ	MECHANICAL JOINT
NPT	AMER. STD. TAPER PIPE THREAD
PE	PLAIN END
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
RED	REDUCER
RTR	REINFORCED THERMOSETTING RESIN
SOF	SLIP-ON FLANGE
WJ	WELDED JOINT

DOUBLE LINE

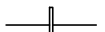
SINGLE LINE



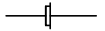
PIPE



WELDED PIPE



FLANGED JOINT



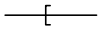
MECHANICAL JOINT OR RESTRAINED PUSH-ON JOINT



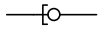
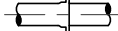
FLEXIBLE COUPLING ADAPTER



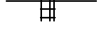
EXPANSION JOINT



HUB & SPIGOT JOINT



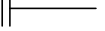
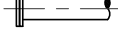
BALL JOINT



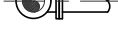
FLANGED COUPLING ADAPTER W/ THRUST TIES



FLEXIBLE COUPLING WITH THRUST TIES



BLIND FLANGE



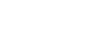
ELBOW UP



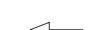
ELBOW DOWN



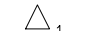
TEE UP



TEE DOWN



FEMALE QUICK DISCONNECT FITTING



MALE QUICK DISCONNECT FITTING



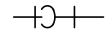
PIPE SUPPORT AND TYPE

MECHANICAL LEGEND

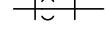
PIPING SYMBOLS

DOUBLE LINE

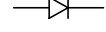
SINGLE LINE



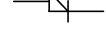
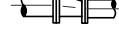
LATERAL UP



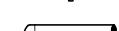
LATERAL DOWN



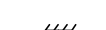
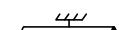
CONCENTRIC REDUCER



ECCENTRIC REDUCER



UNION



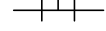
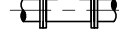
CAP



ANCHOR



WYE



TEE



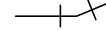
CROSS



ELBOW, 90 DEGREE



ELBOW, 45 DEGREE



ELBOW, 22.5 DEGREE



ABANDON IN PLACE

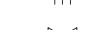


DEMOLISH AND REMOVE

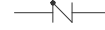
VALVE SYMBOLS



GATE



BUTTERFLY



BALL



CHECK



DIAPHRAGM



NEEDLE



PLUG



PRESSURE RELIEF



AIR RELEASE AND/OR VACUUM RELIEF



REGULATED SIDE



HYDRAULIC CONTROL VALVE



UNION



BALL CHECK

ACTUATOR SYMBOLS



ELECTRIC MOTOR



ELECTROHYDRAULIC



PNEUMATIC



HYDRAULIC



SOLENOID



MANUAL

NOTE:

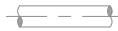
ON LOSS OF PRIMARY POWER
(PNEUMATIC, ELECTRICAL OR HYDRAULIC)
XX: FO = FAIL OPEN
FC = FAIL CLOSED
FLP = FAIL TO LAST POSITION

MECHANICAL NOTES

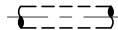
- ALL PIPING SHALL HAVE A MINIMUM COVER OF 36" BELOW FINAL GRADE UNLESS OTHERWISE NOTED.
- WHERE IT IS NECESSARY TO DEFLECT PRESSURE PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED DEFLECTION ANGLE OR A MINIMUM BENDING RADIUS OF 25 TIMES THE OUTSIDE DIAMETER OF THE PIPE.
- ALL PIPING SHALL BE PROPERLY SUPPORTED. ALL PIPING WHICH WILL BE PRESSURIZED DURING OPERATION SHALL BE PROPERLY RESTRAINED.
- ALL PIPING AND FITTINGS SHALL BE FUSION WELDED HDPE SDR 11 UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.
- NOT ALL FLANGE AND MECHANICAL JOINT CONNECTIONS ARE SHOWN FOR CLARITY. ALL ABOVE GRADE DUCTILE IRON FITTINGS SHALL BE FLANGED. ALL BELOW GRADE DUCTILE IRON FITTINGS SHALL BE MECHANICAL JOINT.
- CONTRACTOR SHALL RESTRAIN ALL BELOW GRADE PIPE.

NOTE:

EXISTING PIPE AND EQUIPMENT IS SHOWN IN THE DRAWINGS AS LIGHT-LINED AND/OR SCREENED. PROPOSED PIPE AND EQUIPMENT IS SHOWN IN THE DRAWINGS AS HEAVY-LINED. ABOVE GRADE PIPE AND EQUIPMENT IS SHOWN IN DRAWINGS AS SOLID-LINED. BELOW GRADE PIPE AND EQUIPMENT IS SHOWN IN DRAWINGS AS DASHED-LINED. SEE BELOW EXAMPLES:




EXISTING PIPE (ABOVE GRADE)



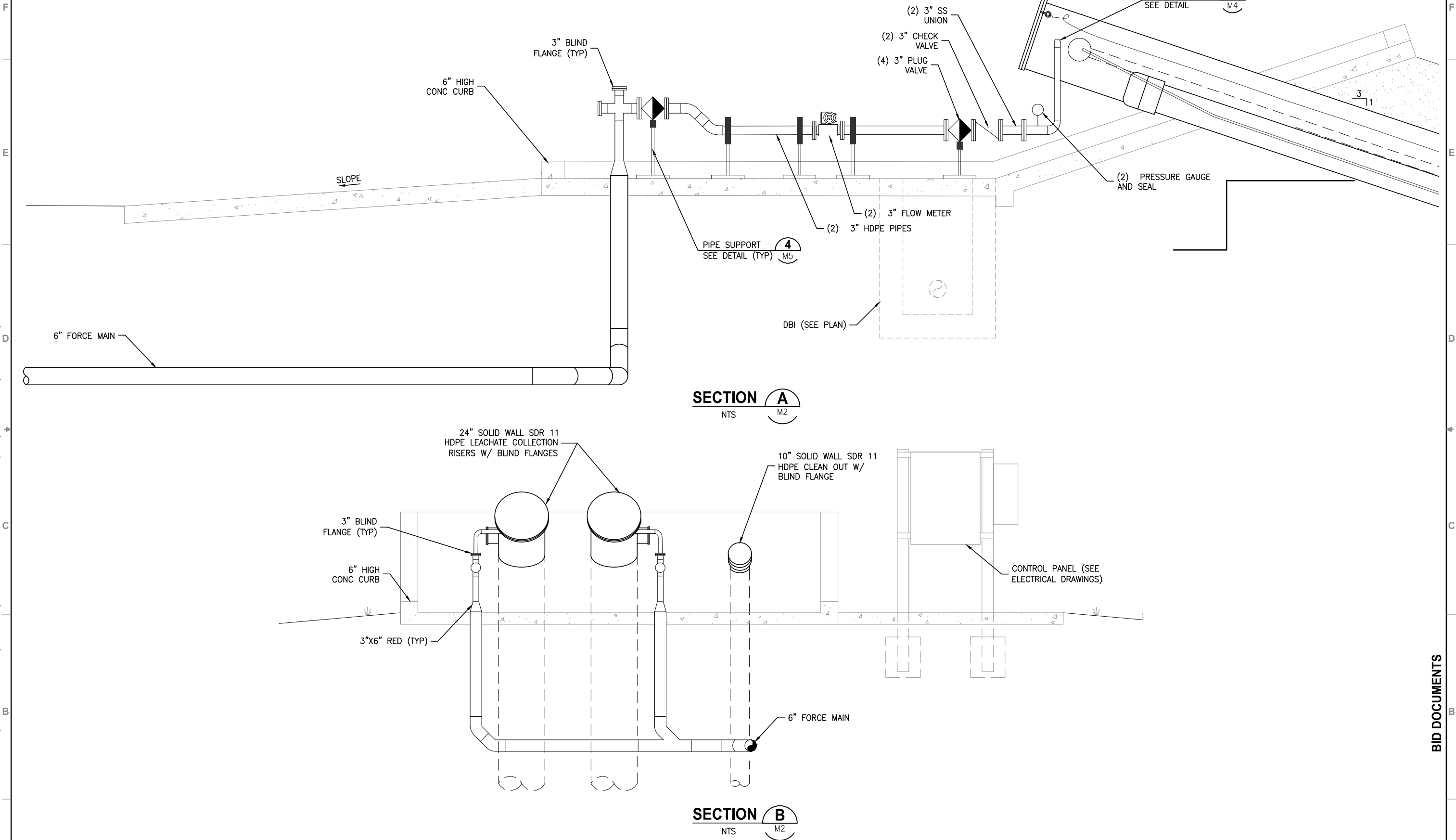
NEW PIPE (BELOW GRADE)

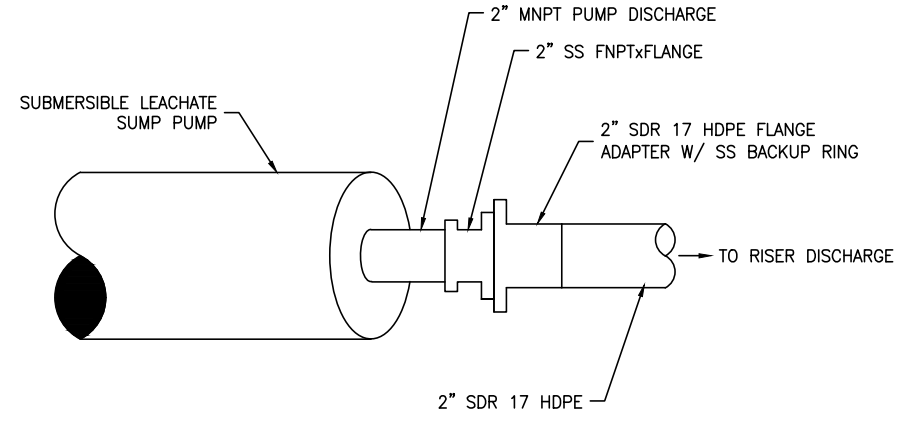
DESIGNED	MMORSE		LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY CELL 2A CLASS III LANDFILL CONSTRUCTION HENDRY COUNTY, FLORIDA	MECHANICAL NOTES AND LEGEND	APPROVED BY TOBIN S. MCKNIGHT P.E. 69187	PROJECT NO: 12345-026-01 INDEX NO:	DATE: JUL 2024 DWG NO: M1
DRAWN	PUPSTILL						
CHECKED	TMCKNIGHT						
LTR.	DATE	REVISIONS					



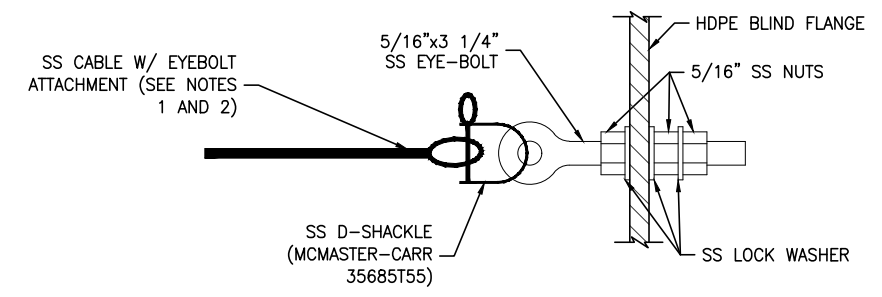
					DESIGNED	MMORSE	<div><p>13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-5821</p></div>	LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY CELL 2A CLASS III LANDFILL CONSTRUCTION HENDRY COUNTY, FLORIDA	PUMP STATION MECHANICAL PLAN	APPROVED BY	PROJECT NO:	DATE:
					DRAWN	PUPSTILL				12345-026-01	JUL 2024	
					CHECKED	TMCKNIGHT				INDEX NO:	DWG NO:	
LTR.	DATE	REVISIONS	BY	APPRD.						TOBIN S. MCKNIGHT P.E. 69187	M2	

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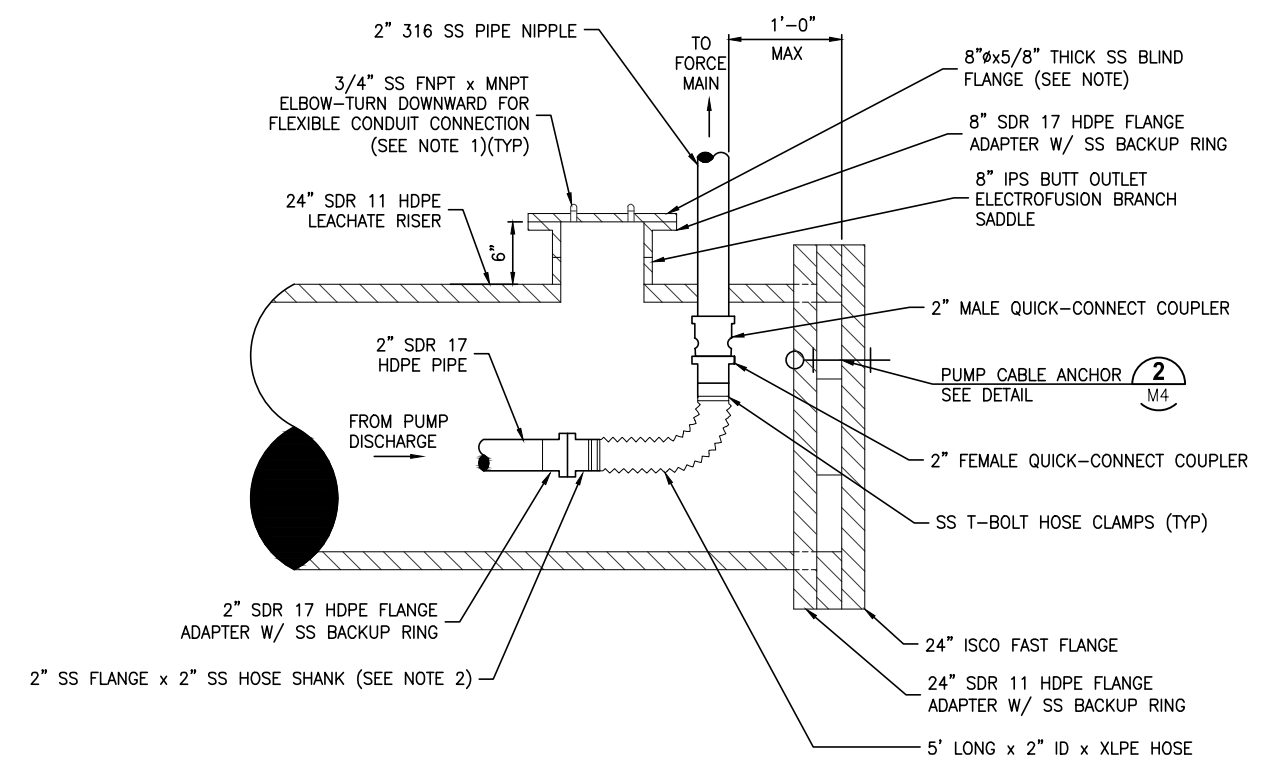




PUMP DISCHARGE DETAIL 1
NTS C12



PUMP CABLE ANCHOR DETAIL 2
NTS M4




- NOTES:**
1. PIPE AND FITTING PENETRATIONS THROUGH SS FLANGE SHALL BE THREADED TO KEEP PENETRATIONS GAS TIGHT.
2. ATTACH HOSE TO HOSE SHANK PER MANUFACTURERS SPECIFICATIONS.

RISER DISCHARGE DETAIL 3
NTS M3

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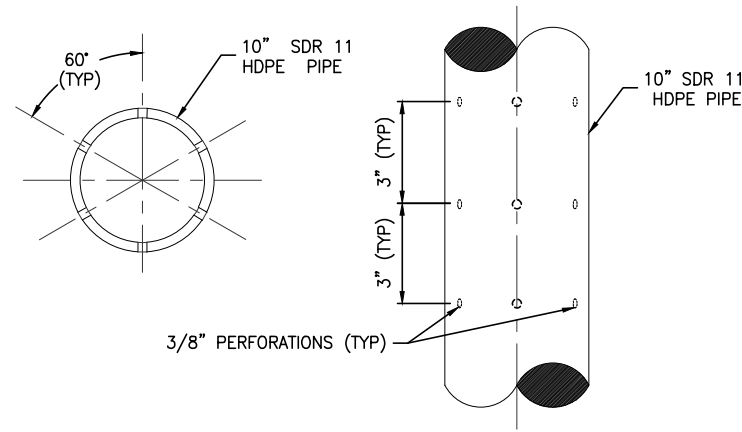
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LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

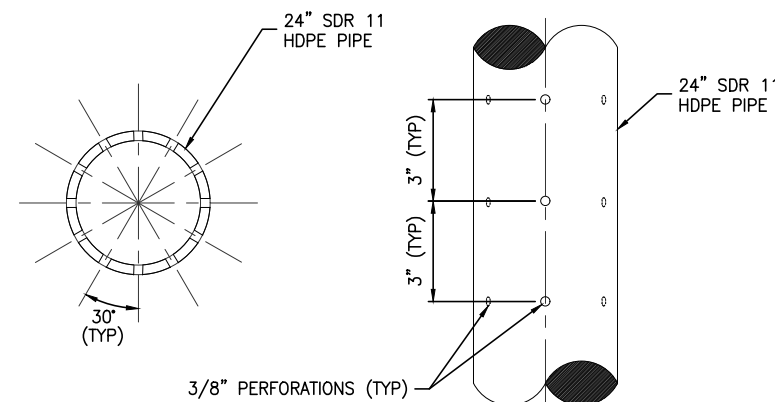
MECHANICAL DETAILS

APPROVED BY	PROJECT NO:	DATE:
TOBIN S. MCKNIGHT	12345-026-01	JUL 2024
P.E. 69187	INDEX NO:	DWG NO:
		M4

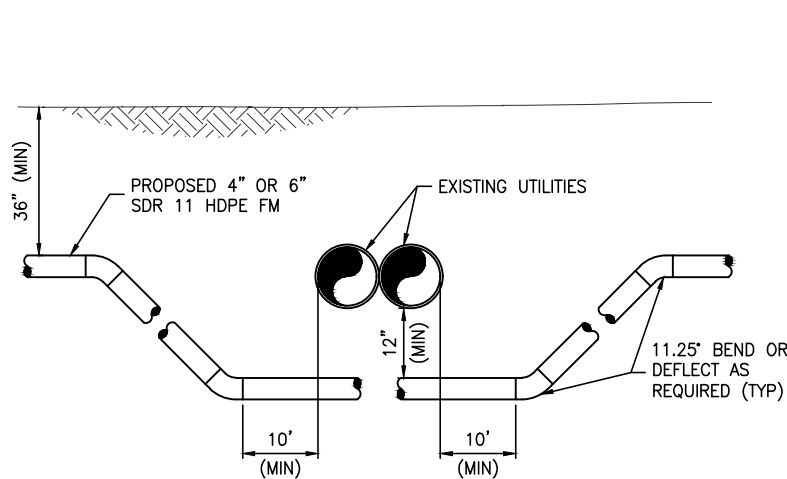
BID DOCUMENTS



**10" PERFORATED LEACHATE
COLLECTION PIPE DETAIL** 1
NTS C9,C14

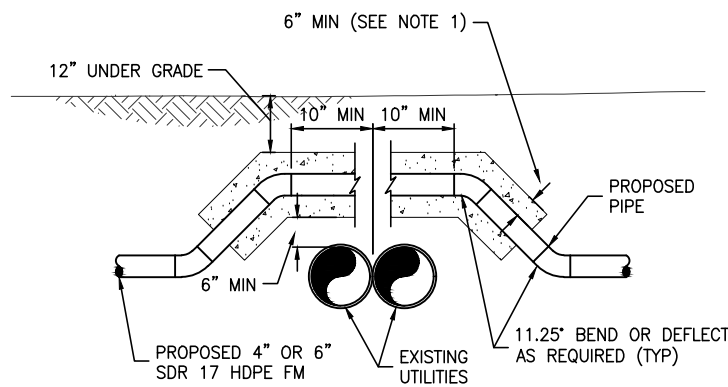


**24" PERFORATED
LEACHATE RISER DETAIL** 2
NTS C12



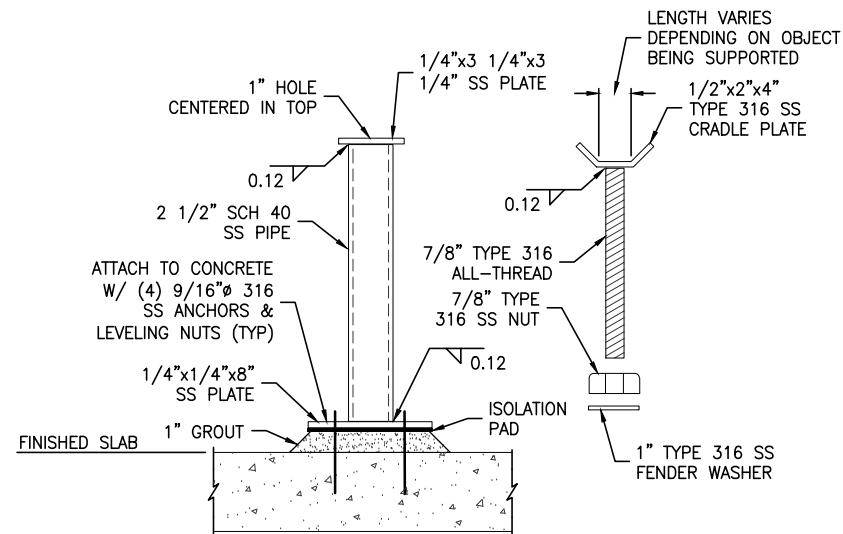
(PROPOSED UNDER EXISTING)

TYPICAL UTILITY CONFLICT DETAIL 3
NTS C5



(PROPOSED OVER EXISTING)

NOTES:
1. 6" MINIMUM CONCRETE ENCASEMENT ALL AROUND.



PIPE SUPPORT DETAIL 4
NTS C12,M2,M3

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PUPSTILL
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7/3/2024

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DRAWN	PUPSTILL
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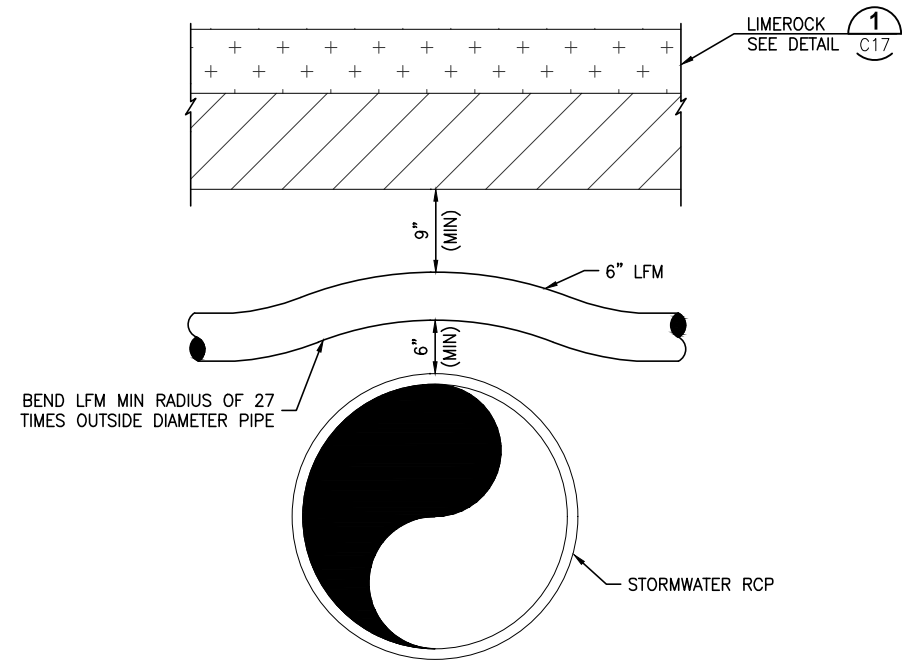
JonesEdmunds
13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-5821

LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

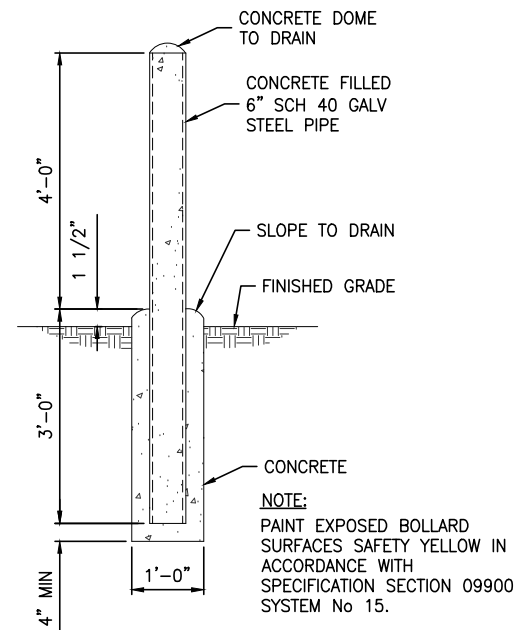
MECHANICAL DETAILS

APPROVED BY	PROJECT NO:	DATE:
TOBIN S. MCKNIGHT	12345-026-01	JUL 2024
P.E. 69187	INDEX NO:	DWG NO:
		M5

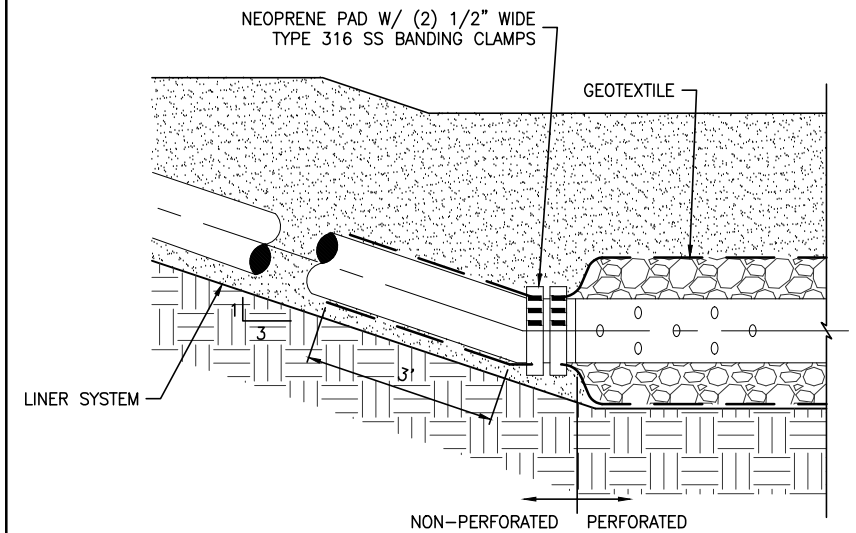
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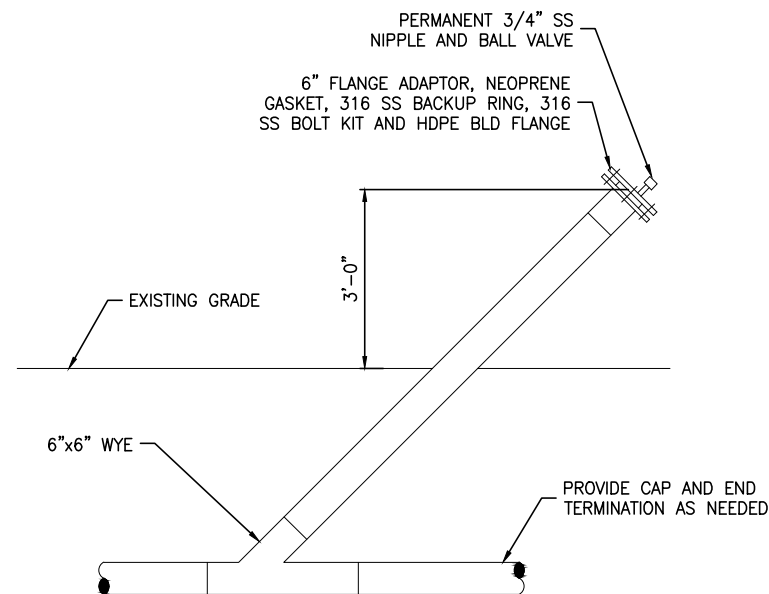
UNDER ROAD UTILITY CONFLICT DETAIL 1
NTS C5



BOLLARD DETAIL 2
NTS C18,M2,M6,M7,E3



GEOTEXTILE BOOT DETAIL 3
NTS C12



SECTION
SINGLE CLEANOUT DETAIL 4
NTS C5

NOTES:
1. INSTALL 4 BOLLARDS. SEE DETAIL 2
M6

LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED

DESIGNED MMORSE
DRAWN PUPSTILL
CHECKED TMCKNIGHT

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CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

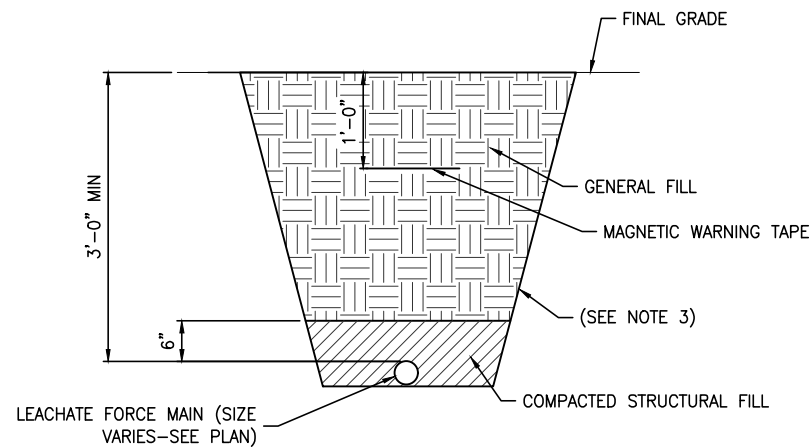
MECHANICAL DETAILS

APPROVED BY
TOBIN S. MCKNIGHT
P.E. 69187

PROJECT NO:
12345-026-01
DATE:
JUL 2024
INDEX NO:
DWG NO:
M6

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D
C
B
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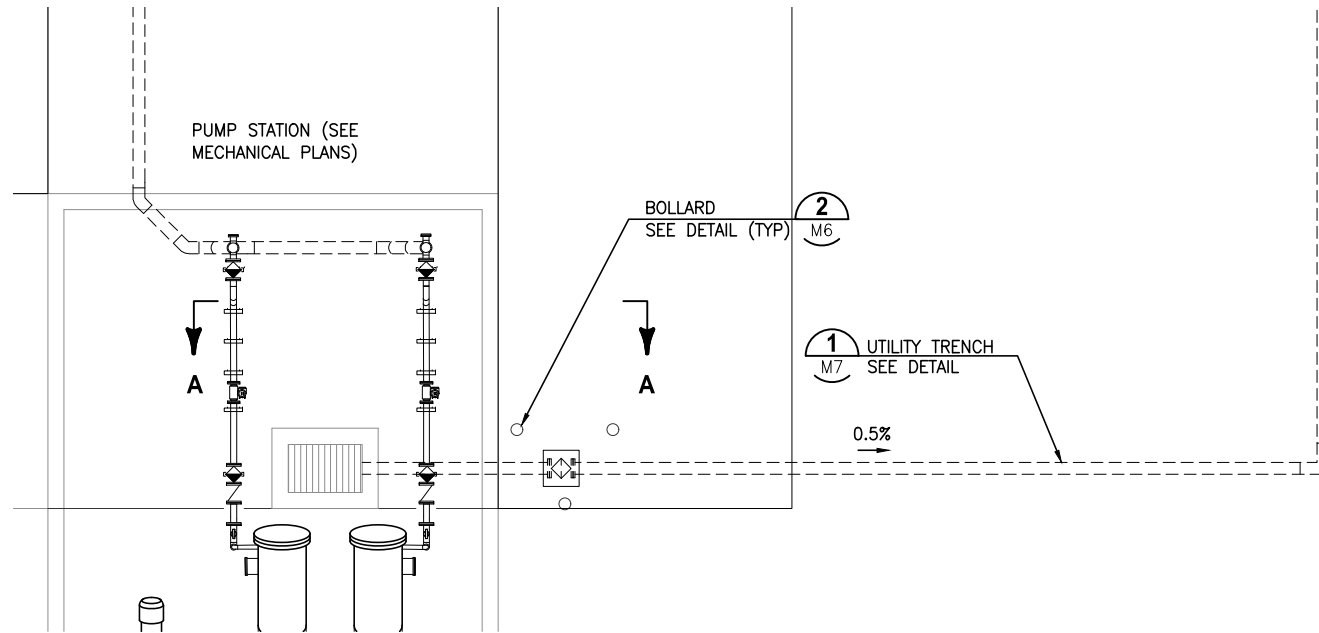
NOTES:

1. ACTUAL DEPTH OF TRENCH MAY VARY BASED ON FIELD CONDITIONS.
2. ALL PIPES SHALL HAVE A MINIMUM OF 3' OF COVER UNLESS NOTED OTHERWISE.
3. TRENCH WALLS MUST BE SLOPED OR HAVE APPROPRIATE SHORING PROVIDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY STANDARDS.

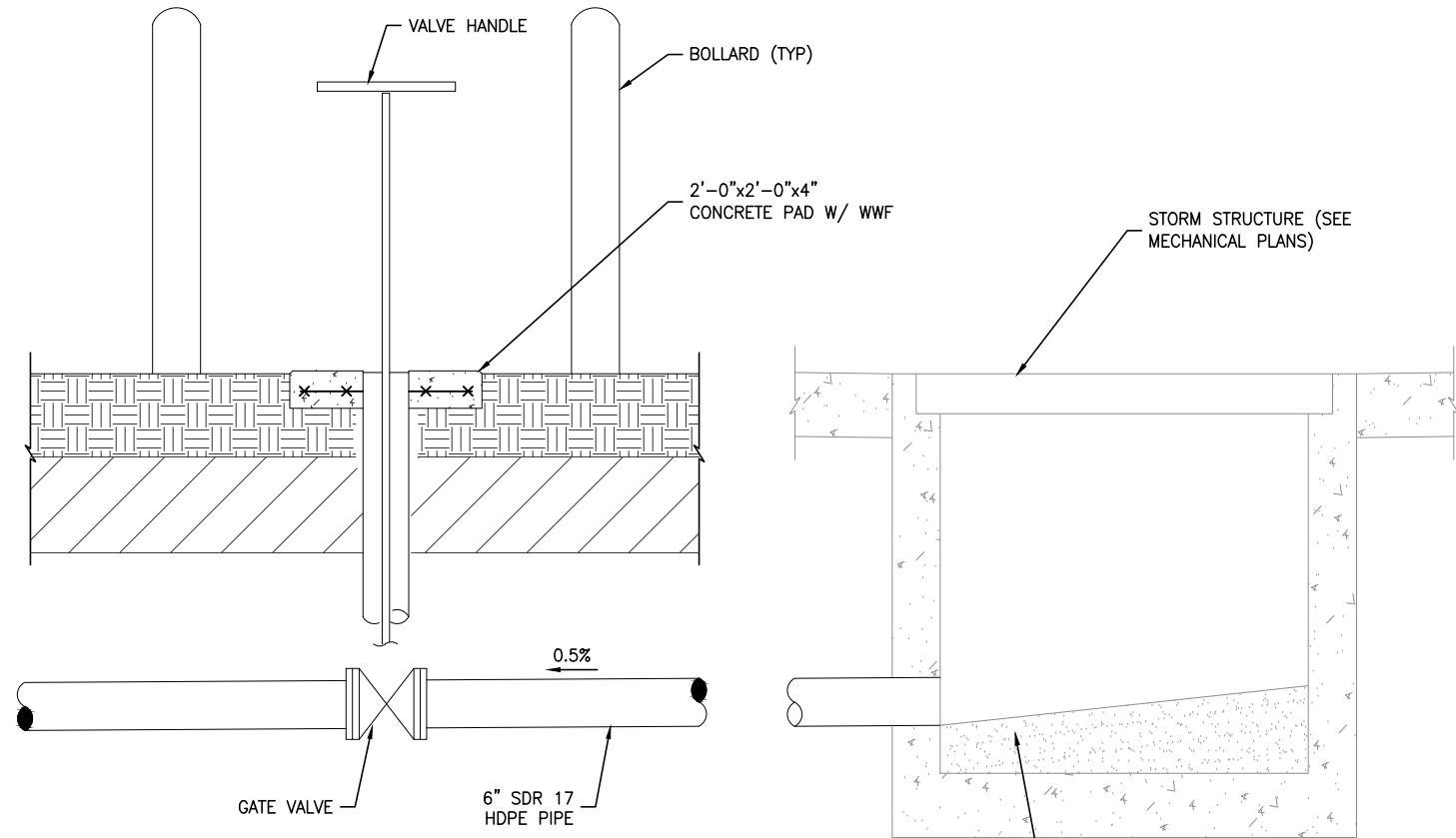
TYPICAL UTILITY TRENCH DETAIL

NTS

1
M7



PLAN



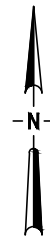
SECTION A-A

STORMWATER DISCHARGE DETAIL

NTS

2
M2

GROUT BOTTOM OF
STRUCTURE SO THAT WATER
FLOWS TO INVERT



BID DOCUMENTS

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	MMORSE
DRAWN	PUPSTILL
CHECKED	TMCKNIGHT

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13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-5821

LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

MECHANICAL DETAILS

APPROVED BY
TOBIN S. MCKNIGHT
P.E. 69187

PROJECT NO: 12345-026-01	DATE: JUL 2024
INDEX NO:	DWG NO: M7

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	LTR.	DATE	REVISIONS	BY	APPRD.

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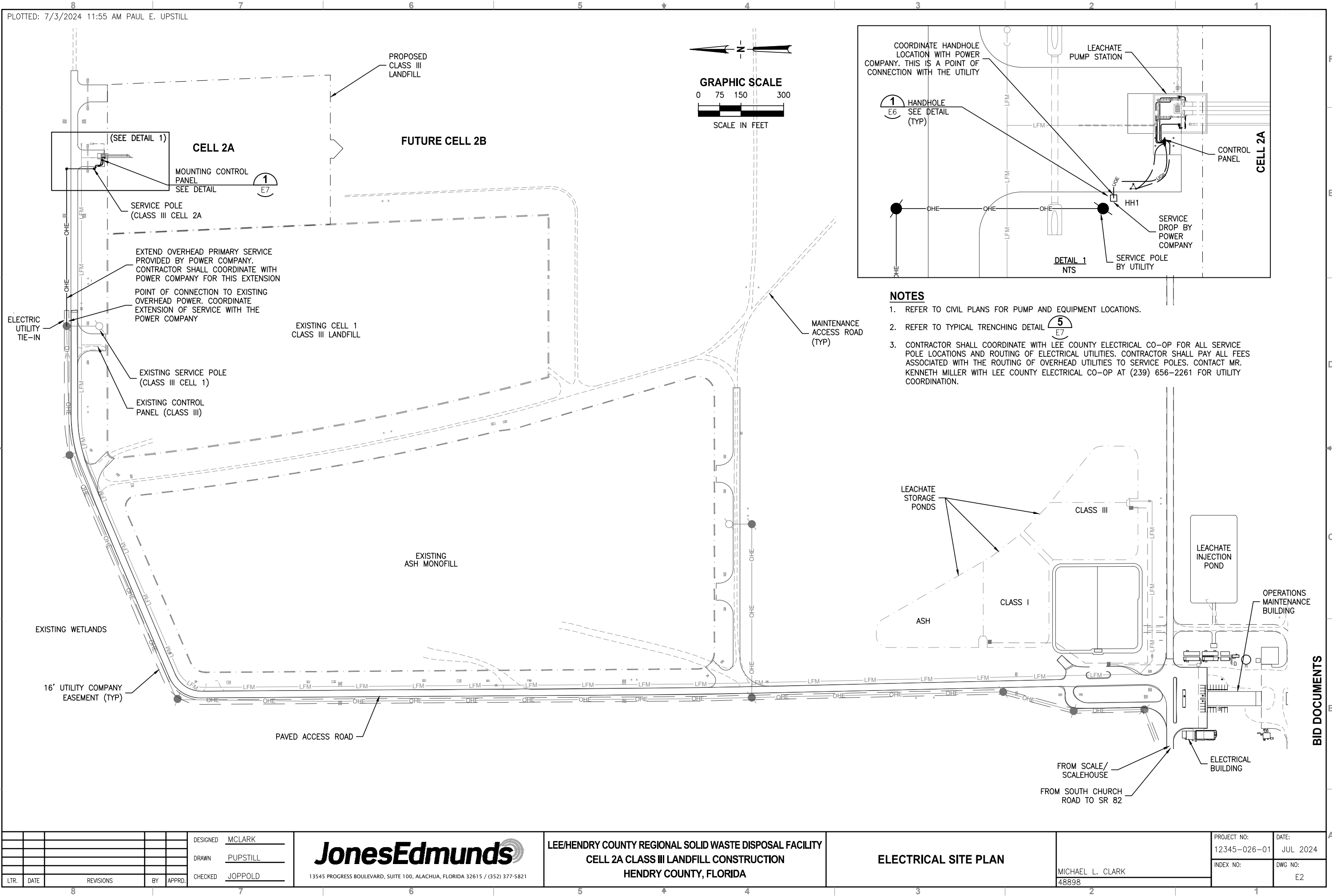
ONE LINE DIAGRAM LEGEND

**HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA**

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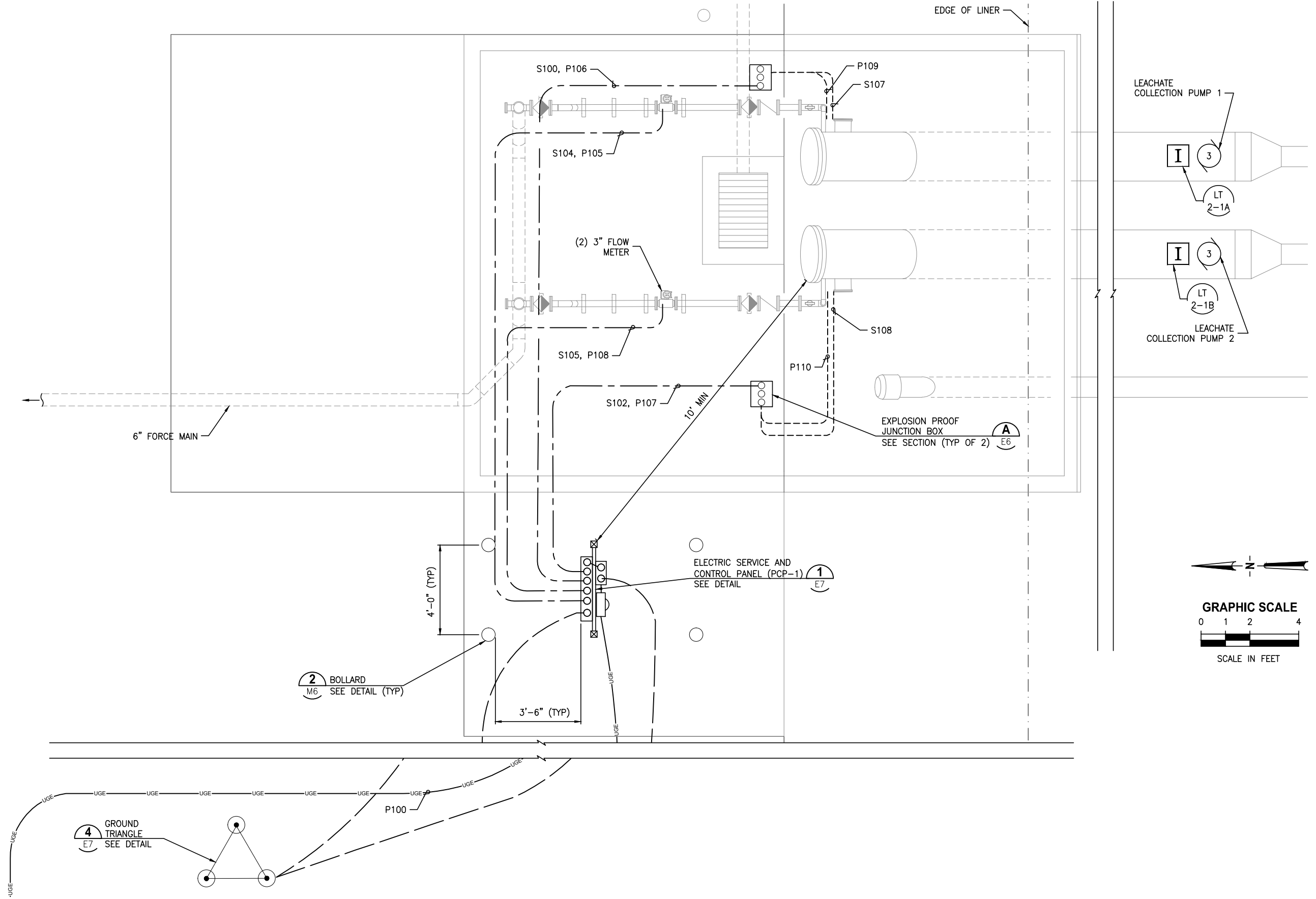
MICHAEL L. CLARK
48898

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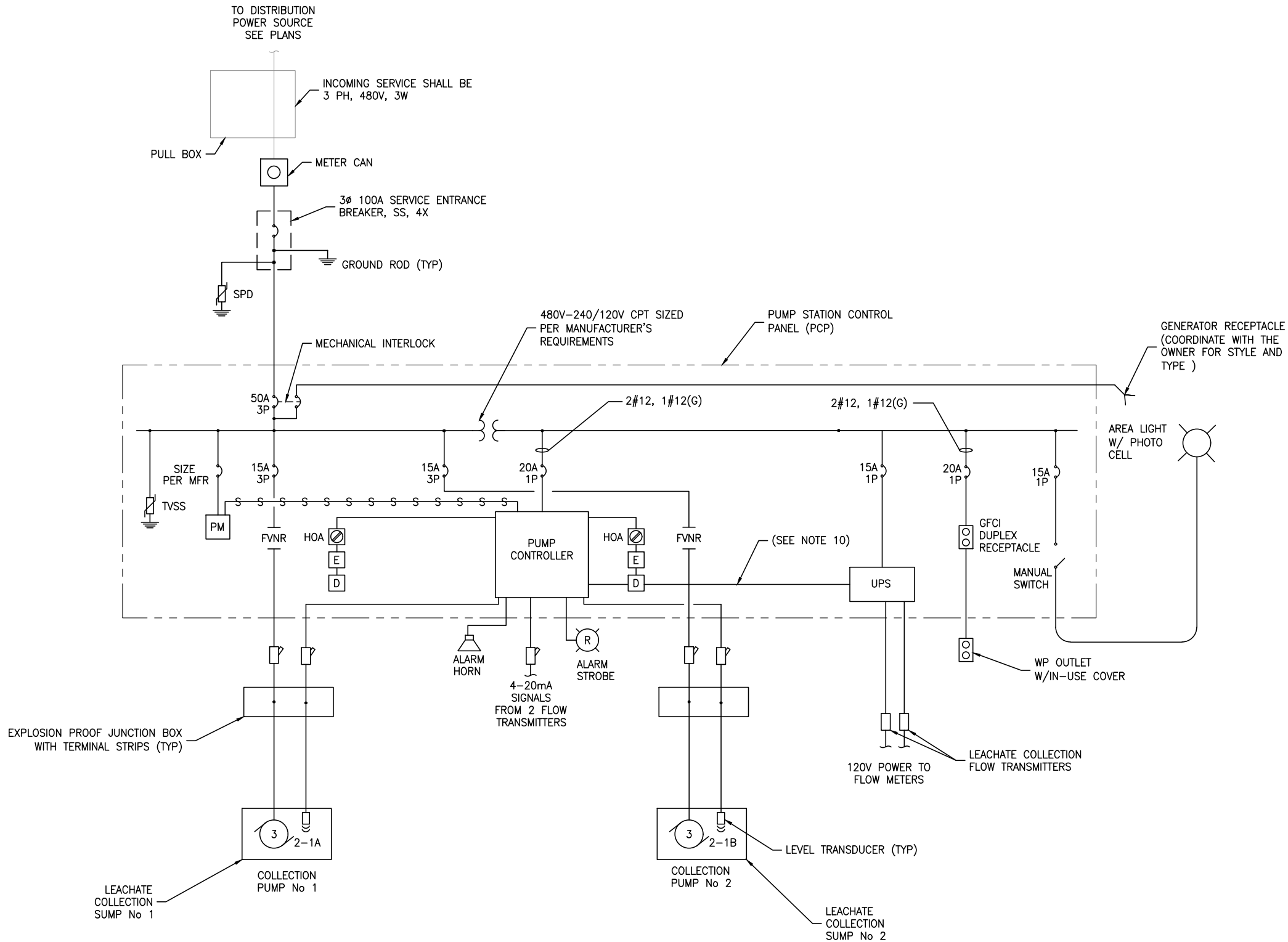
						DESIGNED	MCLARK	<div><div><div>JonesEdmunds</div></div><div>13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-5821</div></div>	LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY CELL 2A CLASS III LANDFILL CONSTRUCTION HENDRY COUNTY, FLORIDA	ELECTRICAL SITE PLAN	MICHAEL L. CLARK 48898	PROJECT NO: 12345-026-01	DATE: JUL 2024
						DRAWN	PUPSTILL						
						CHECKED	JOPPOLD						
LTR.	DATE	REVISIONS		BY	APPRD.								

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					DRAWN	PUPSTILL					12345-026-01	JUL 2024
					CHECKED	JOPPOLD					INDEX NO:	DWG NO:
LTR.	DATE	REVISIONS	BY	APPRD.	1						E3	

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NOTES

- PANEL LOCATION IS AS SHOWN ON THE PLANS.
- CONDUCTORS EXITING CONTROL PANEL SHALL BE TYPE THWN INSULATED COPPER. INTERNAL CONTROL PANEL WIRING SHALL BE TYPE MTW OR AS REQUIRED BY THE MANUFACTURER.
- PROVIDE A SURGE PROTECTION DEVICE (SPD). SPD SHALL BE AN ADVANCED PROTECTION TECHNOLOGIES TE/4XT, PQ PROTECTION PQC100, OR APPROVED EQUAL.
- PROVIDE A NEMA 7 EXPLOSION-PROOF JUNCTION BOX WITH PARTITION SEPARATING POWER AND SIGNAL CONTAINING DIN RAIL MOUNTED NON-ARCING TERMINAL STRIPS FOR SPLICING POWER AND CONTROL WIRES.
- THE PUMP CONTROL PANEL ENCLOSURE SHALL BE GASKETED NEMA 3R STAINLESS STEEL FITTED WITH A 3 POINT LOCKABLE LATCH AND DEAD FRONT PANEL.
- ALL CONNECTIONS TO THE STATION SHALL BE INTRINSICALLY SAFE AND THE PANEL SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: (SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS)
 - THERMAL MAGNETIC CIRCUIT BREAKERS INDICATED.
 - NEMA RATED COMBINATION FULL VOLTAGE STARTERS FOR EACH PUMP.
 - DUPLEX/SIMPLEX CONTROL SYSTEM (SEE SPECIFICATION)
 - CONTROL POWER TRANSFORMERS, AS REQUIRED.
 - SURGE PROTECTION DEVICE.
 - RUN TIME METER FOR EACH PUMP.
 - HAND-OFF-AUTO SELECTOR SWITCH FOR EACH PUMP.
 - RED PUMP STOP, GREEN PUMP RUN LIGHTS FOR EACH PUMP.
 - PHASE MONITOR AND PHASE LOSS ALARM.
 - ZENON ALARM STROBE.
 - CONTROL SYSTEM SHALL BE 120 VOLT.
 - TYPE GFCI 20 AMP, 125 VOLT DUPLEX RECEPTACLE.
 - SUBMERSIBLE LEVEL TRANSDUCER CONTROL.
- THE CONTROL PANEL INTEGRATED INTERRUPT RATING SHALL BE EQUAL TO THE AVAILABLE FAULT CIRCUIT CURRENT AT THE POINT OF INSTALLATION WITH A MINIMUM OF 22,000 RMS SYMMETRICAL AMPS.
- GROUND ALL ENCLOSURES AND EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL COMPONENTS SHALL BE SIZED PER NATIONAL ELECTRICAL CODE.
- PROVIDE BACKUP UPS SUPPLY TO PUMP CONTROLLER.

CELL 2 PUMP STATION ONE-LINE DIAGRAM

NTS

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					DRAWN	<u>PUPSTILL</u>
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LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

PUMP STATION ELECTRICAL ONE-LINE
DIAGRAM

MICHAEL L. CLARK
48898

PROJECT NO:	12345-026-01	DATE:	JUL 2024
INDEX NO:		DWG NO:	E4

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INSTRUMENTATION AND CONTROL WIRING SCHEDULE								
CIRCUIT NUMBER	FROM	TO	SIGNAL TYPE	CONDUCTORS			CONDUIT	ALARM OR FUNCTION
				ANALOG	DISCRETE	GROUND		
	CELL 2							
P100	INCOMING SERVICE	SERVICE ENTRANCE DISCONNECT SWITCH	480V	-	3#3	#3	2"	THRU METER
P102	SERVICE ENTRANCE DISCONNECT SWITCH	PCP 1	480/277V	-	3#3	#3	2"	
P103	DISCONNECT SWITCH	GROUND	-	-	-	#4/0	1"	CONNECT TO GROUNDING SYSTEM
P104	PCP 1	AREA LIGHT	120V		2#12	#12	3/4"	PROVIDE MANUAL SWITCH AND PHOTOCELL
P105	UPS	LEACHATE COLLECTION PUMP 1 FLOW METER	120V		2#12	#12	3/4"	FLOW METER POWER
P106	PUMP CONTROL PANEL	EXPLOSION PROOF JUNCTION BOX	480VAC	-	3#10	#12	1"	LEACHATE COLLECTION PUMP #1 POWER *
P107	PUMP CONTROL PANEL	EXPLOSION PROOF JUNCTION BOX	480VAC	-	3#10	#12	1"	LEACHATE COLLECTION PUMP #2 POWER *
P108	UPS	LEACHATE COLLECTION PUMP 2 FLOW METER	120V		2#12	#12	3/4"	FLOW METER POWER
P109	EXPLOSION PROOF JUNCTION BOX	LEACHATE COLLECTION PUMP	480VAC	CFWE			1"	LEACHATE COLLECTION PUMP #1 *
P110	EXPLOSION PROOF JUNCTION BOX	LEACHATE COLLECTION PUMP	480VAC	CFWE			1"	LEACHATE COLLECTION PUMP #2 *
S100	PUMP CONTROL PANEL	EXPLOSION PROOF JUNCTION BOX COLL PUMP 1	4-20 mA	1#16-TSP	-	-	3/4"	SUMP LEVEL SIGNAL, PROVIDE 1-#16-TSP SPARE
S102	PUMP CONTROL PANEL	EXPLOSION PROOF JUNCTION BOX COLL PUMP 2	4-20 mA	1#16-TSP	-	-	3/4"	SUMP LEVEL SIGNAL, PROVIDE 1-#16-TSP SPARE
S103								NOT USED
S104	FLOW METER TRANSMITTER	FLOW METER COLL PUMP 1	4-20 mA	1#16-TSP	-	-	3/4"	FLOW METER SIGNAL, PROVIDE 1-#16-TSP SPARE
S105	FLOW METER TRANSMITTER	FLOW METER COLL PUMP 2	4-20 mA	1#16-TSP	-	-	3/4"	FLOW METER SIGNAL, PROVIDE 1-#16-TSP SPARE
S106								NOT USED
S107	EXPLOSION PROOF JUNCTION BOX	COLLECTION PUMP 1 LEVEL PROBE	4-20 mA	CFWE	-	-	1"	SUMP LEVEL TRANSMITTER SIGNAL
S108	EXPLOSION PROOF JUNCTION BOX	COLLECTION PUMP 2 LEVEL PROBE	4-20 mA	CFWE	-	-	1"	SUMP LEVEL TRANSMITTER SIGNAL

NOTE:
*PUMPS REQUIRE ADDITIONAL SUPPORT
CABLES (TEMP, HEATER, ETC). COORDINATE
AND PROVIDE CONDUCTORS AND CONDUIT
AS REQUIRED.

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LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

ELECTRICAL WIRING SCHEDULE

MICHAEL L. CLARK

48898

PROJECT NO:
12345-026-01

DATE:
JUL 2024

INDEX NO:

DWG NO:
E5

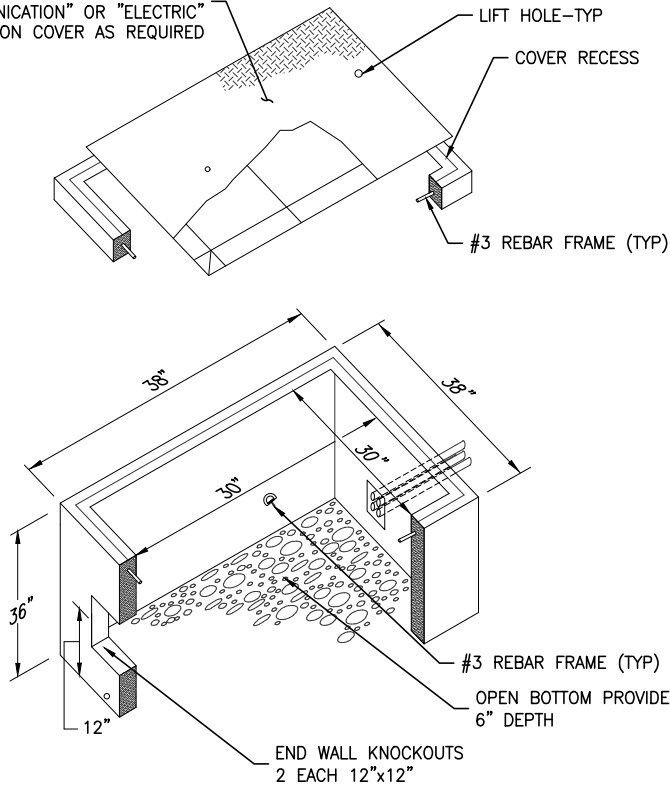
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PLOTTED: 7/3/2024 11:55 AM PAUL E. UPSTILL

FLOOR PLATE RATED H20 TRAFFIC
LOADING. MARK HANDHOLE NUMBER
AND "COMMUNICATION" OR "ELECTRIC"
ON COVER AS REQUIRED



NOTE:
BOND FRAME, LID, AND ALL OTHER EXPOSED METAL PARTS TO THE
LARGEST EQUIPMENT GROUNDING CONDUCTOR RUNNING THROUGH
THE HANDHOLE USING EXOTHERMIC WELDING. PROVIDE FLEXIBLE
GROUNDING CONNECTION BETWEEN HANDHOLE LID AND FRAME.

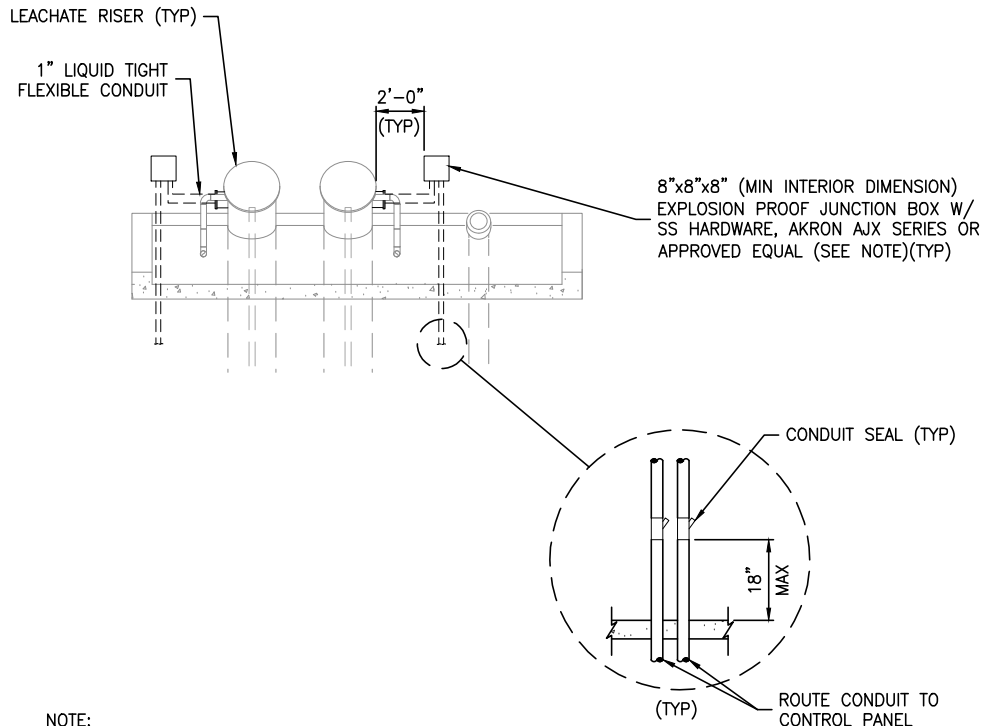
HANDHOLE DETAIL 1
NTS E2

FOR POWER CIRCUITS

**FOR FIBER OPTIC AND
CONTROL WIRING**

**TYPICAL CONDUIT SECTION WITHOUT
CONCRETE ENCASEMENT (TYPICAL AT
ALL UNPAVED AREAS)**

NTS



NOTE:
MOUNT EACH JUNCTION BOX TO WALL W/ (4) 1/2"Ø SS HILTI
KWIK BOLT II EXPANSION ANCHORS (3 1/2" MIN EMBEDMENT).

EXPLOSION PROOF JUNCTION BOX CONNECTION SECTION A
NTS E3

LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED

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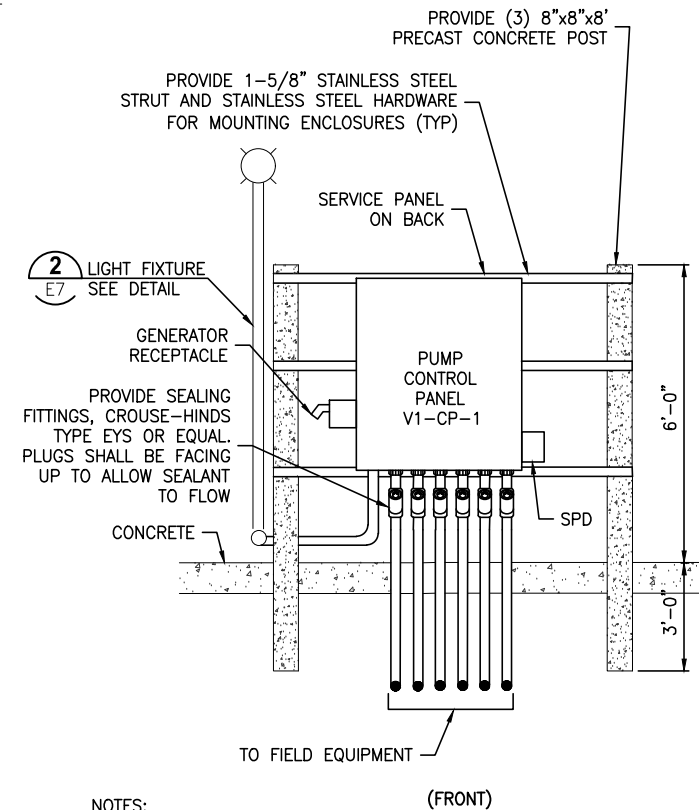
LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

ELECTRICAL SECTIONS AND DETAILS

MICHAEL L. CLARK
48898

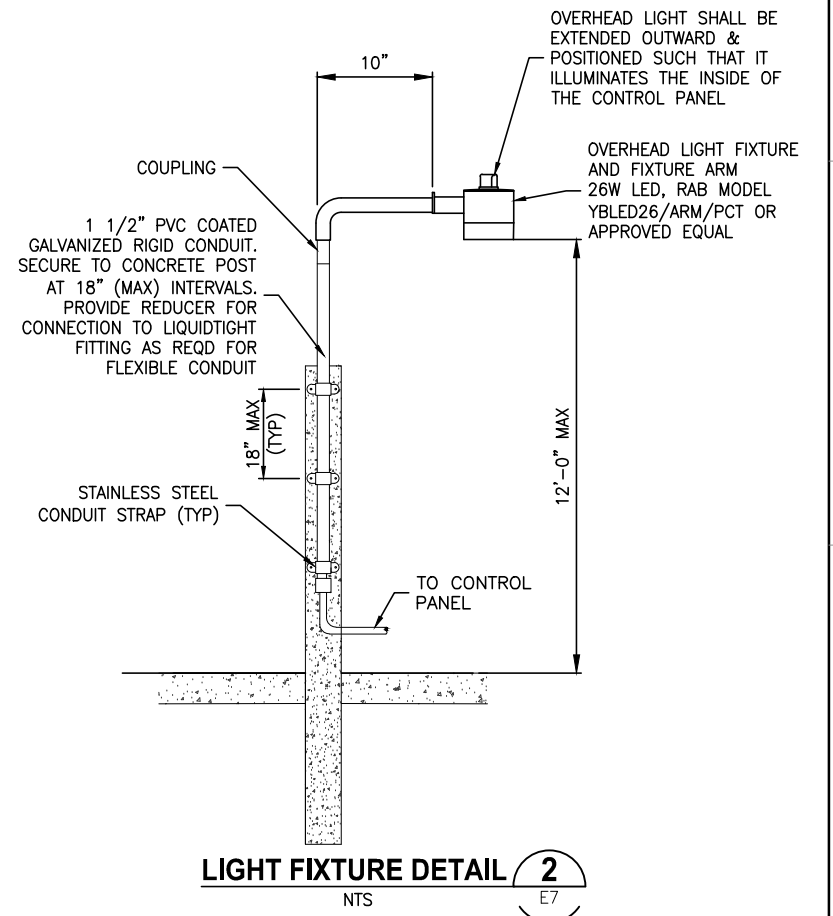
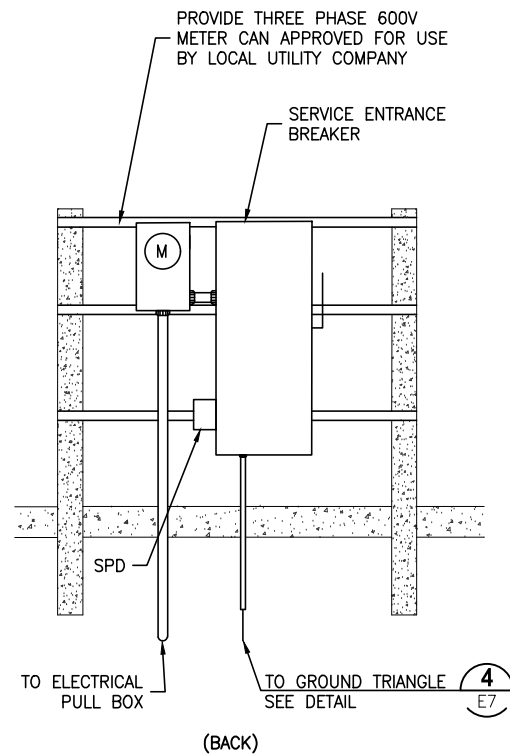
PROJECT NO: 12345-026-01
DATE: JUL 2024
INDEX NO:
DWG NO: E6

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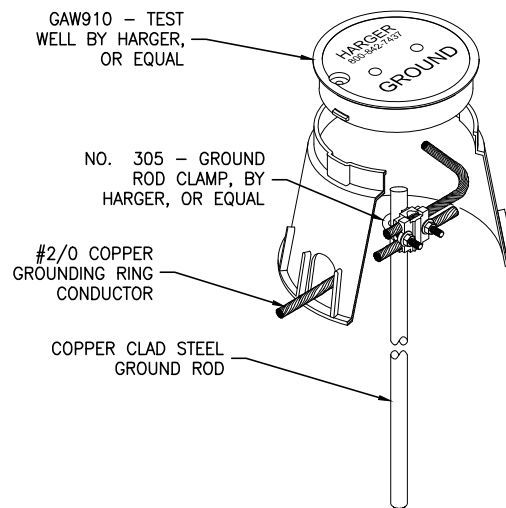


- NOTES:
1. NOT ALL CONDUITS ARE SHOWN.
 2. PUMP CONTROLLER SHALL BE MOUNTED AS SHOWN ON THE PLANS.

ELECTRICAL SERVICE AND CONTROL PANEL MOUNTING DETAIL 1
NTS
E2,E3

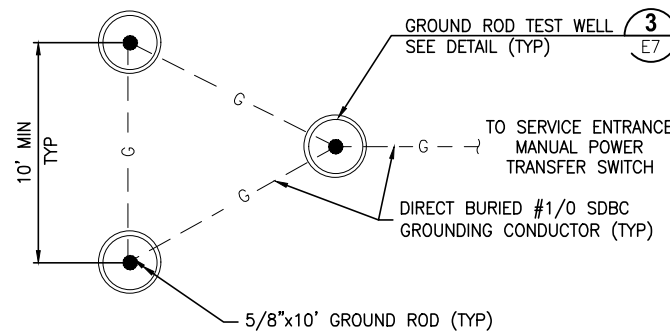


LIGHT FIXTURE DETAIL 2
NTS
E7

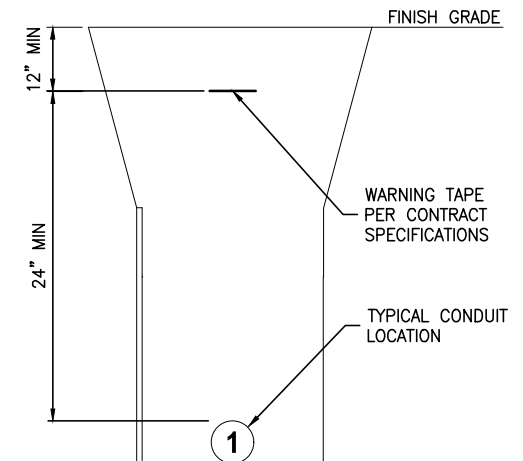


NOTE:
MOUNT TOP OF TEST WELL FLUSH WITH FINISHED GRADE FOR FUTURE ACCESS.

GROUND ROD TEST WELL DETAIL 3
NTS
E7



GROUND TRIANGLE DETAIL 4
NTS
E3



TYPICAL TRENCHING DETAIL 5
NTS
E2

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LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY
CELL 2A CLASS III LANDFILL CONSTRUCTION
HENDRY COUNTY, FLORIDA

ELECTRICAL DETAILS

MICHAEL L. CLARK
48898

PROJECT NO:	12345-026-01	DATE:	JUL 2024
INDEX NO:		DWG NO:	E7

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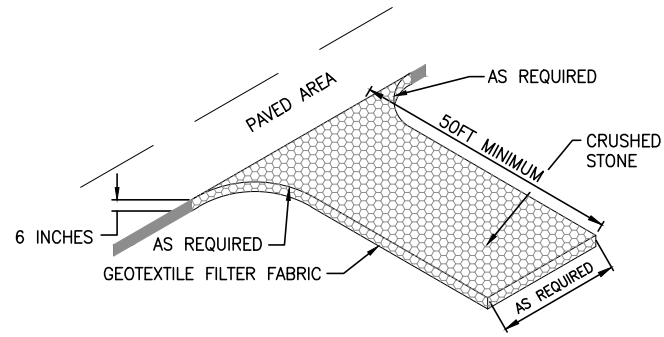
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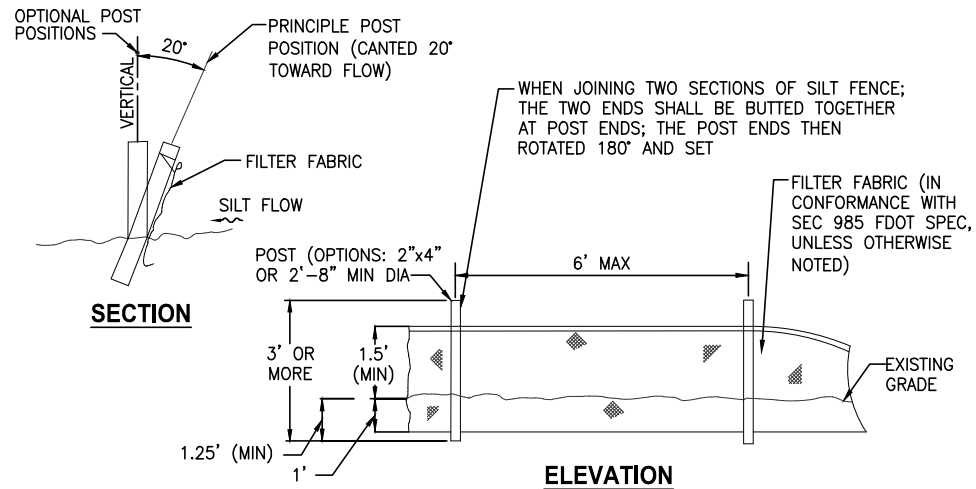
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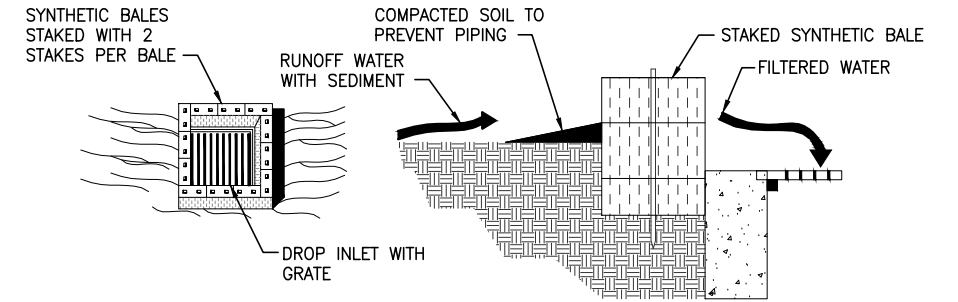
STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NTS



TYPICAL SILT FENCE DETAIL

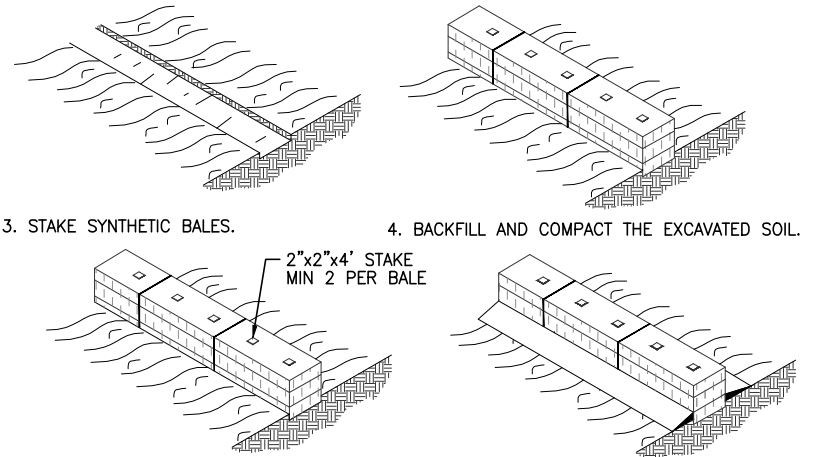
NTS



DROP INLET SEDIMENT FILTER

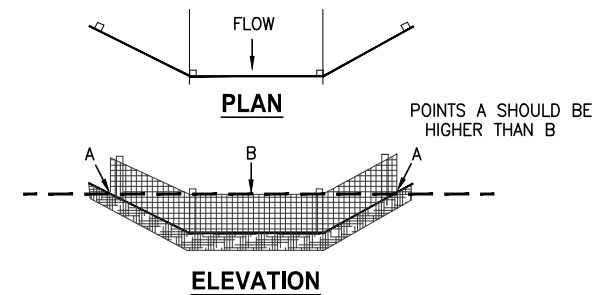
NTS

1. EXCAVATE THE TRENCH.
2. PLACE AND WEDGE SYNTHETIC BALES TOGETHER.



CONSTRUCTION OF A SYNTHETIC BALE BARRIER

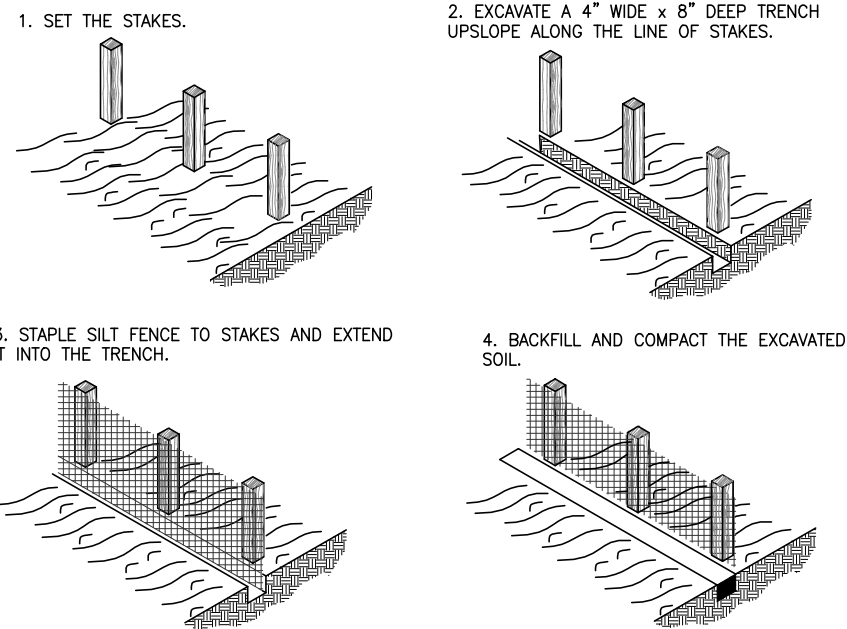
NTS



- NOTES:
1. FILTER BARRIERS SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET AND WIDTH OF A BALE TO A MINIMUM DEPTH OF FOUR INCHES. AFTER THE BALES ARE STACKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
 2. FILTER BARRIERS IN EXISTING CONCRETE DITCH SHALL BE STABILIZED WITH BALES WITHOUT TRENCHING OR SOIL BACKFILL.

PROPER PLACEMENT OF A FILTER BARRIER IN A DRAINAGE WAY

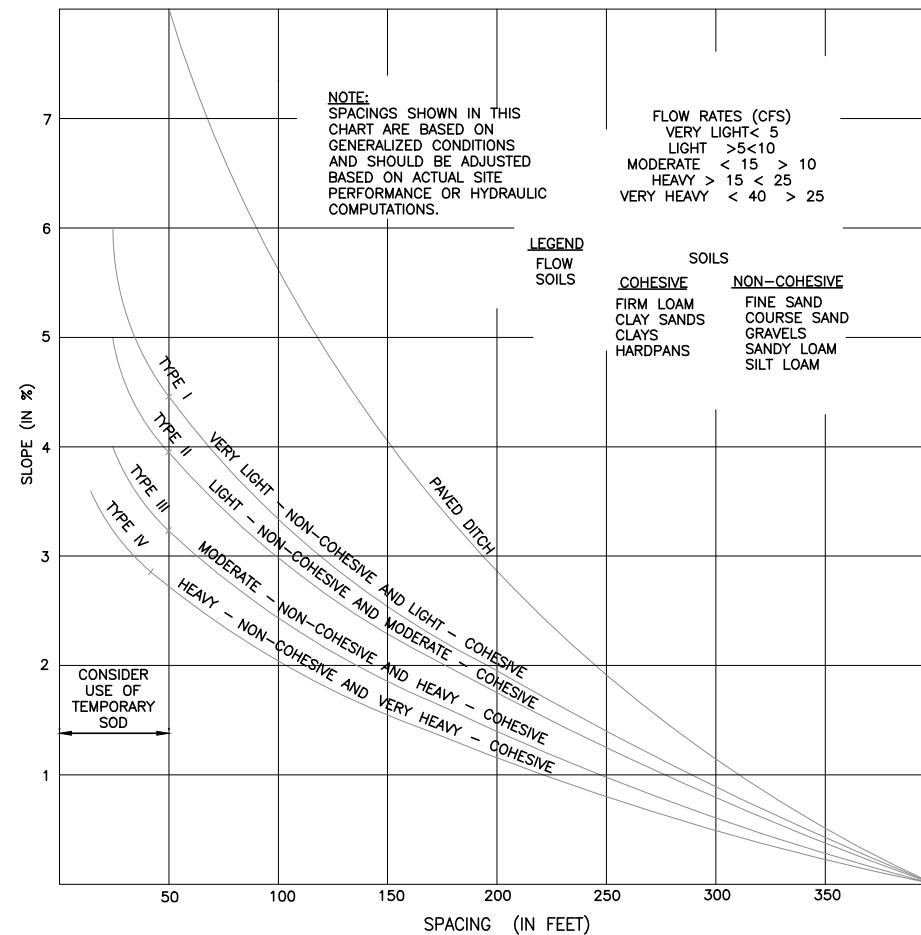
NTS



- NOTES:
1. NO STAKES SHALL BE INSTALLED IN LOCATIONS WITH UNDERLYING LINER SYSTEMS.

SILT FENCE CONSTRUCTION DETAIL

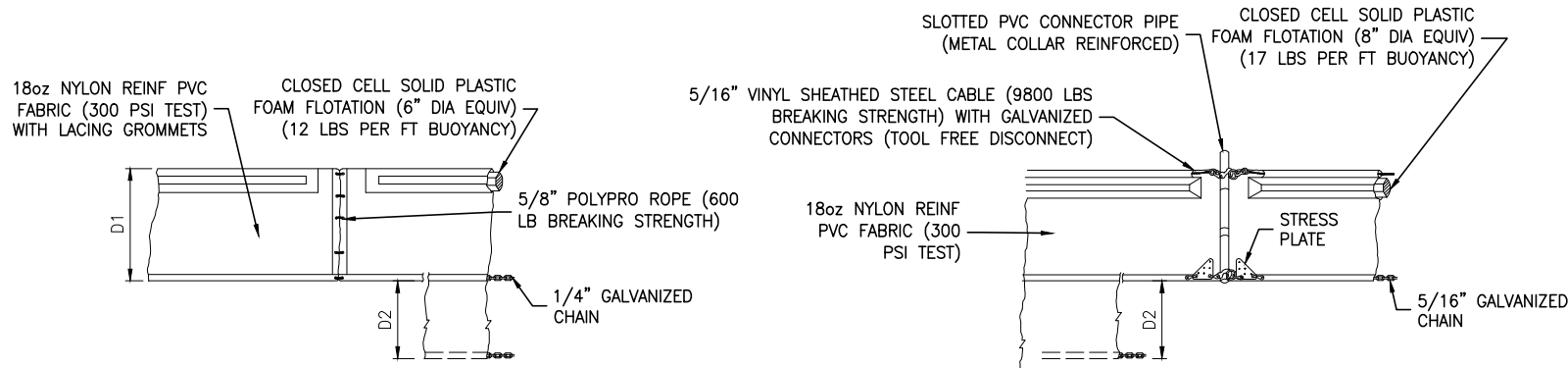
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SPACING RECOMMENDATION FOR SILT FENCES & BALES

NTS

DESIGNED MMORSE				LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY				APPROVED BY				PROJECT NO:	DATE:
DRAWN PUPSTILL				CELL 2A CLASS III LANDFILL CONSTRUCTION				TOBIN S. MCKNIGHT				12345-026-01	JUL 2024
CHECKED TMCKNIGHT				HENDRY COUNTY, FLORIDA				P.E. 69187				INDEX NO:	DWG NO:
LTR. DATE REVISIONS BY APPRD.													EC2



TYPE 1

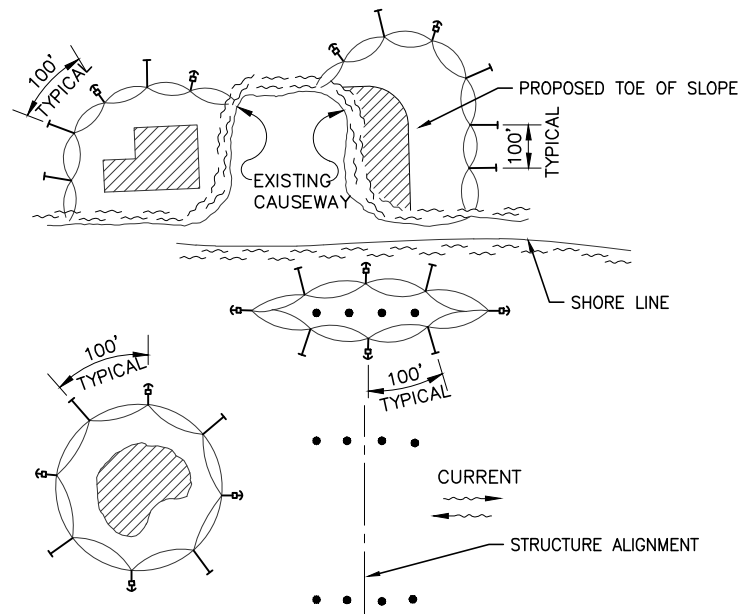
TYPE 2

D1 =5' STD (SINGLE PANEL FOR DEPTHS 5' OR LESS)
D2 =5' STD (ADDITIONAL PANEL FOR DEPTHS 5')

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALL FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

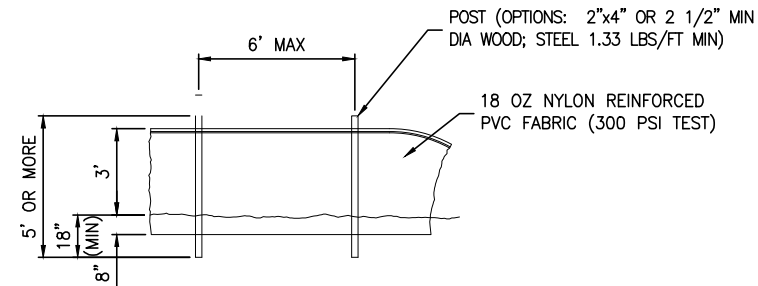
NOTICE: COMPONENTS OF TYPES 1 AND 2 MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES 1 AND 2 SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIER DETAIL

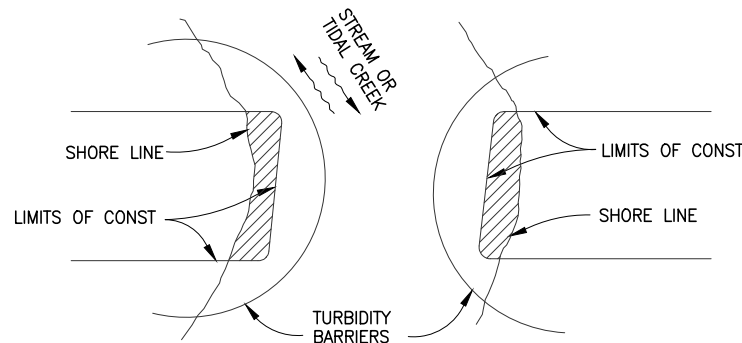


LEGEND

- PILE LOCATIONS
- DREDGE OR FILL AREA
- MOORING BUOY W/ANCHOR
- ANCHOR
- BARRIER MOVEMENT DUE TO CURRENT ACTION



STAKED TURBIDITY BARRIER



NOTES:

- TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
- NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
- DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
- NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
- FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.


NOTE:

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS, HOWEVER PAYMENT WILL BE UNDER THE CONTRACT LUMP SUM PRICE ESTABLISHED IN THE BID PROPOSAL FOR EROSION & SEDIMENT CONTROL POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TURBIDITY BARRIER APPLICATIONS

TURBIDITY BARRIERS

NTS

				DESIGNED <u>MMORSE</u>	 13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FLORIDA 32615 / (352) 377-5821	LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY CELL 2A CLASS III LANDFILL CONSTRUCTION HENDRY COUNTY, FLORIDA	EROSION CONTROL DETAILS	APPROVED BY TOBIN S. MCKNIGHT P.E. 69187	PROJECT NO: 12345-026-01	DATE: JUL 2024
				DRAWN <u>PUPSTILL</u>					INDEX NO:	DWG NO: EC-3
				CHECKED <u>TMCKNIGHT</u>						
LTR.	DATE	REVISIONS	BY	APPRD.						