

SANTEE COOPER CROSS GENERATING STATION GYPSUM FILTRATE POND CLEAN CLOSURE PLAN

NOTES:

- CLOSURE SHALL COMMENCE WITHIN 30 DAYS OF FINAL RECEIPT OF WASTE. INITIATION OF CLOSURE IS DEFINED AS CESSATION OF WASTE PLACEMENT AND SUBMITTAL OF THIS CLOSURE PLAN TO SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC).
- A NOTIFICATION OF INTENT TO CLOSE THE GYPSUM FILTRATE POND SHALL BE PLACED IN THE OPERATING RECORD NO LATER THAN THE DATE CLOSURE IS INITIATED.
- ALL CLOSURE ACTIVITIES WILL BE PERFORMED IN ACCORDANCE WITH A DETAILED SET OF CONSTRUCTION DRAWINGS WITH CONTROL POINTS BASED ON THE APPROVED CLOSURE PLAN AND SURVEY DATA OBTAINED PRIOR TO CLOSURE.
- CLEAN CLOSURE SHALL NOT BE CONSIDERED COMPLETE UNTIL CONFIRMATION SAMPLING AND TESTING INDICATES THAT CONSTITUENT CONCENTRATIONS HAVE BEEN REMOVED, GROUNDWATER MONITORING CONCENTRATIONS DO NOT EXCEED THE GROUNDWATER PROTECTION STANDARD ESTABLISHED PURSUANT TO 40 CFR PART 257.95(h) (FOR CONSTITUENTS LISTED IN APPENDIX IV OF THAT PART), FINAL GRADES HAVE BEEN ACHIEVED, AND PERMANENT SEEDING HAS BEEN ESTABLISHED.
- A NOTIFICATION OF COMPLETION OF CLOSURE SHALL BE SUBMITTED TO SCDHEC AND PLACED IN THE OPERATING RECORD WITHIN 30 DAYS AFTER COMPLETION OF CLOSURE OF THE GYPSUM FILTRATE POND. THE NOTIFICATION SHALL INCLUDE A CERTIFICATION BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA THAT ALL WASTE HAS BEEN REMOVED AND THE CLOSURE HAS BEEN COMPLETED IN ACCORDANCE WITH THIS CLOSURE PLAN.
- THE APPROXIMATE MILESTONE SCHEDULE IS AS FOLLOWS:
APRIL 2016 - OBTAIN APPROVALS AND PROCURE CONTRACTOR
JULY 2016 - DEWATER AND REMOVE ANY REMAINING WASTE, CONFORMANCE TESTING
AUGUST 2016 - DEMOLISH POND STRUCTURES TO BE REMOVED
SEPTEMBER 2016 - FINAL GRADING AND STABILIZATION
OCTOBER 2016 - CLEAN CLOSURE IS COMPLETE



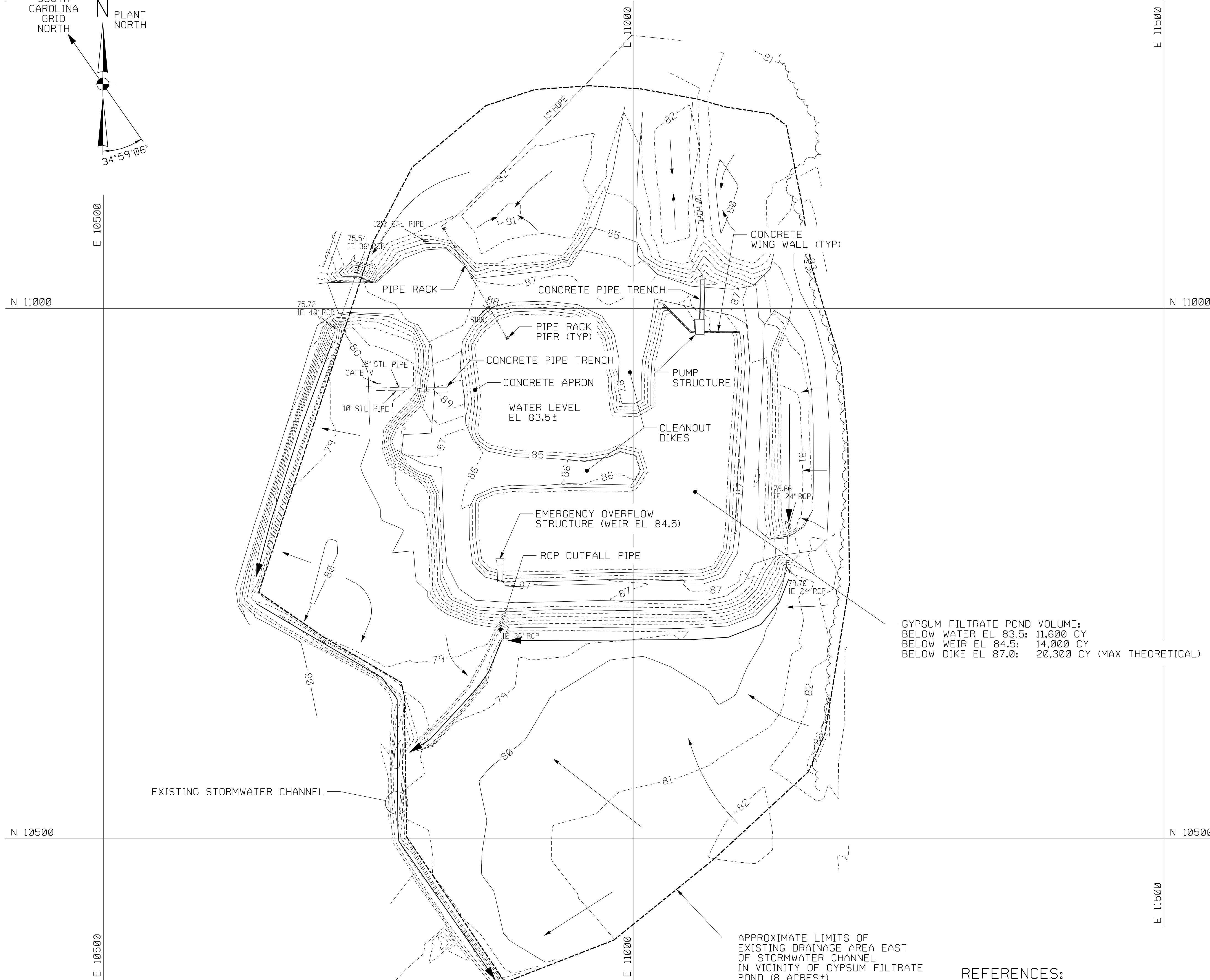
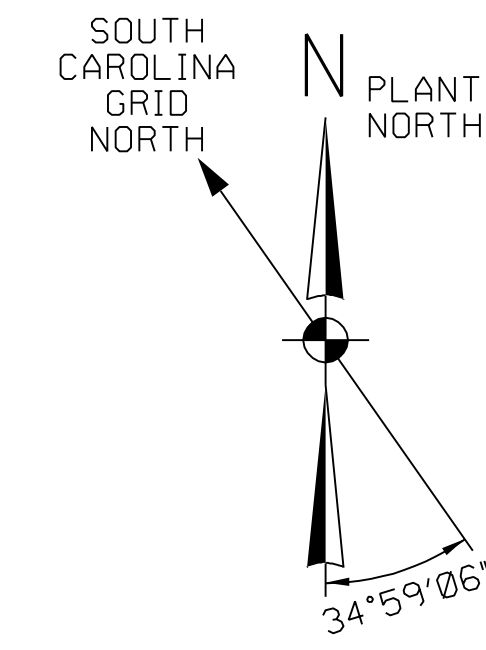
VICINITY PLAN

DRAWING INDEX

CROSS-0-DW-044-735-001	GYPSUM FILTRATE POND CLOSURE - COVER SHEET
CROSS-0-DW-044-735-002	GYPSUM FILTRATE POND CLOSURE - EXISTING CONDITIONS PLAN
CROSS-0-DW-044-735-003	GYPSUM FILTRATE POND CLOSURE - EXCAVATION AND DEMOLITION PLAN
CROSS-0-DW-044-735-004	GYPSUM FILTRATE POND CLOSURE - FINAL GRADING PLAN
CROSS-0-DW-044-735-005	GYPSUM FILTRATE POND CLOSURE - EXISTING AND FINAL GRADE - CROSS SECTIONS AND DETAILS

REV	DATE	DESCRIPTION	DRAWN	CHECKED	REVIEWED	LEADER	TECH. SPEC.	ENGINEER	PROJ. MGR.
0	01/07/16	ISSUED FOR PERMITTING	KPF	RES	KPF	FMW	FMW	JAW	
DRAWN BY		ENGINEER/TECH SPECIALIST							
KPF		F.M. WOOD							
CHECKED BY		PROJECT ENGINEERING MANAGER							
R.E. STOUDT		J.A. WEIST							
LEAD DESIGNER		PROJECT MANAGER							
K.P. FEEG		T.E. EVANS							
PRELIMINARY STATUS		DATE INFORMATION ONLY - NOT TO BE USED FOR CONSTRUCTION.							
LDE F.M. WOOD		01/07/16							
APPROVED STATUS		DATE REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.							
LDE		/ /							
CERTIFICATE OF AUTHORIZATION		PROFESSIONAL ENGINEER'S SEAL							
		<small>Copyright © 2016 WorleyParsons Services Pty Ltd. ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF PE: ELEGHER IS. JMSO. STATE OF SOUTH CAROLINA LIC. NO. 24762 DATE: 01/07/16</small>							
CROSS GENERATING STATION									
		resources & energy							
GYPSUM FILTRATE POND CLOSURE COVER SHEET									
SCALE	NONE	DRAWING SIZE	ARCH D (36" x 24')	JOB NO.	108008-01330				
WORLEYPARSONS DWG. NO.		CROSS-0-DW-044-735-001		REV	0				

\\cross-0-dw-044-735-001.dgn
 1/7/2016 11:11:17 AM



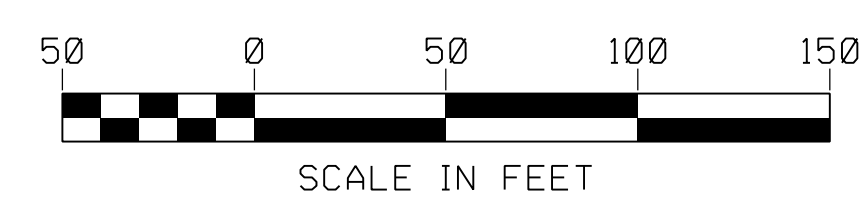
NOTES:

1. GRID BASED ON THE PLANT COORDINATE SYSTEM.
2. BACKGROUND TOPOGRAPHY IS BASED ON A SURVEY PERFORMED BY PARKER LAND SURVEYING, LLC, HANAHAN, SC DATED 08/31/15.
3. ELEVATIONS BASED ON NGVD 29 DATUM UNLESS OTHERWISE STATED.
4. 08/31/15 SURVEY TERMINATED AT TOP OF DIKE SLOPE INSIDE POND. EXISTING CONTOURS BELOW TOP EDGE OF DIKE AND ABOVE WATER LEVEL ARE APPROXIMATED BY ASSUMING 3:1 SLOPES. EXISTING WASTE IN POND VARIES AND IS NOT SHOWN. ADDITIONAL SURVEY INSIDE THE POND TO BE OBTAINED AFTER WASTE IS DEWATERED.
5. ALL GYPSUM FILTRATE POND EFFLUENT CURRENTLY IS PUMPED TO THE BOTTOM ASH POND FOR TREATMENT.
6. ALL NON-CONTACT STORMWATER WITHIN VICINITY OF GYPSUM FILTRATE POND CURRENTLY FLOWS SOUTH THROUGH THE EXISTING STORMWATER CHANNEL TO CGS STORMWATER OUTFALL NO. 5.
7. REFER TO LOCKWOOD GREENE REFERENCE DRAWINGS FOR ADDITIONAL DETAIL ON EXISTING POND STRUCTURES.

LEGEND:

- 80 ----- EXISTING CONTOURS
- EXISTING STORMWATER FLOW DIRECTION
- - - - - EXISTING PIPING

GYPSUM FILTRATE POND VOLUME:
 BELOW WATER EL 83.5: 11,600 CY
 BELOW WEIR EL 84.5: 14,000 CY
 BELOW DIKE EL 87.0: 20,300 CY (MAX THEORETICAL)



APPROXIMATE LIMITS OF EXISTING DRAINAGE AREA EAST OF STORMWATER CHANNEL IN VICINITY OF GYPSUM FILTRATE POND (8 ACRES±)

REFERENCES:

- 044-735-003 EXCAVATION AND DEMOLITION PLAN
- 044-735-004 FINAL GRADING PLAN
- LOCKWOOD GREENE DRAWING 2-CV-600 LAYOUT GRADING & DRAINAGE PLAN
- LOCKWOOD GREENE DRAWING 2-CV-650 MISCELLANEOUS DETAILS AND SECTIONS
- LOCKWOOD GREENE DRAWING 2-CV-651 MISCELLANEOUS DETAILS AND SECTIONS
- LOCKWOOD GREENE DRAWING 2-C-685 PUMP STRUCTURE PLAN - SECTIONS AND DETAILS
- LOCKWOOD GREENE DRAWING 2-C-687 PIPE RACK FRAMING & FND PLAN

PLAN

0	01/07/16	ISSUED FOR PERMITTING	KPF	RES	KPF	FMW	FMW	JAW
REV	DATE	DESCRIPTION	DRAWN	CHECKED	REVIEWED	LEADER	TECH. SPEC.	PROJECT ENGINEER

DRAWN BY	KPF	ENGINEER/TECH SPECIALIST	F.M. WOOD
CHECKED BY	R.E. STOUT	PROJECT ENGINEERING MANAGER	J.A. WEIST
LEAD DESIGNER	K.P. FEEG	PROJECT MANAGER	T.E. EVANS
PRELIMINARY STATUS	DATE	INFORMATION ONLY - NOT TO BE USED FOR CONSTRUCTION.	
LDE	F.M. WOOD	01/07/16	
APPROVED STATUS	DATE	REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.	
LDE	/ /		

OneWay
to zero harm

Copyright © WorleyParsons Services Pty Ltd

ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF PE: ELETCHER IS, JMSO, STATESOUTH CAROLINA LIC. NO. 24762 DATE: 01/07/16

CROSS GENERATING STATION

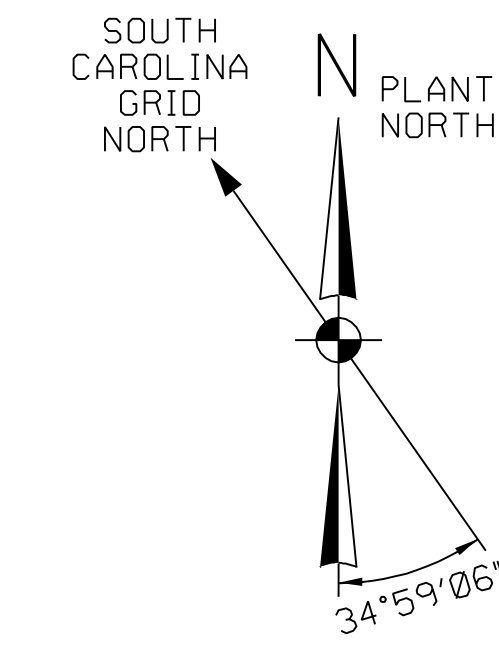
SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

resources & energy

**GYPSUM FILTRATE POND CLOSURE
EXISTING CONDITIONS PLAN**

SCALE	1"=50'	DRAWING SIZE	ARCH D (36" x 24')	JOB NO.	108008-01330
WORLEYPARSONS DWG. NO.	CROSS-0-DW-044-735-002		REV	0	

17/7/2016 044-735-002.dwg 11:16 AM



STEEL PIPE RACK FRAMING TO BE REMOVED AND CONCRETE PIERS TO BE REMOVED OR DEMOLISHED DOWN BELOW FINAL GRADE (SEE REF DWG 2-C-687)

CONCRETE PIPE TRENCH AND APRON TO BE REMOVED (SEE REF DWGS 2-C-685 AND 2-CV-651, RESPECTIVELY)

ORIGINAL DESIGN EXTERIOR TOE OF SLOPE (TYP - SEE NOTE 6)

APPROXIMATE OUTER LIMIT OF EXISTING GYPSUM FILTRATE POND AREA (3 ACRES±) - SEE NOTE 6

EMERGENCY OVERFLOW STRUCTURE, RCP OUTFALL PIPE AND ANTI-SEEP COLLARS, AND CEMENT-SANDBAG RIPRAP TO BE REMOVED (SEE SECTION 3 ON REF DWG 2-CV-651)

CONCRETE PIPE TRENCH TO BE REMOVED OR ISOLATED AND LEFT IN PLACE FOR POSSIBLE FUTURE RE-USE (SEE REF DWG 2-C-685)

EXISTING PUMP STRUCTURE, PUMPS, AND UTILITIES TO BE REMOVED OR ISOLATED AND LEFT IN PLACE FOR POSSIBLE FUTURE RE-USE (SEE REF DWG 2-C-685)

ORIGINAL DESIGN TOP OF DIKE (EL 85.8 + 1' OVERFILL - TYP)

ORIGINAL DESIGN INTERIOR TOE OF SLOPE (TYP - SEE NOTE 5)

DESIGN BOTTOM OF POND EL 77.5 (SEE NOTE 4)

N 11000

N 11000

N 10500

N 10500

REFERENCES:

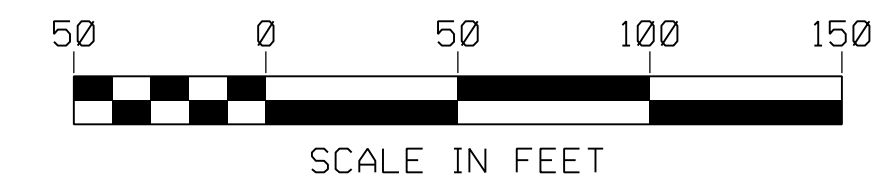
044-735-002	EXISTING CONDITIONS PLAN
044-735-004	FINAL GRADING PLAN
044-735-005	CROSS SECTIONS AND DETAILS
LOCKWOOD GREENE DRAWING 2-CV-600	LAYOUT GRADING & DRAINAGE PLAN
LOCKWOOD GREENE DRAWING 2-CV-650	MISCELLANEOUS DETAILS AND SECTIONS
LOCKWOOD GREENE DRAWING 2-CV-651	MISCELLANEOUS DETAILS AND SECTIONS
LOCKWOOD GREENE DRAWING 2-C-685	PUMP STRUCTURE PLAN - SECTIONS AND DETAILS
LOCKWOOD GREENE DRAWING 2-C-687	PIPE RACK FRAMING & FND PLAN

LEGEND:

	80	EXISTING CONTOURS
		ORIGINAL DESIGN POND BOTTOM AND DIKE LOCATIONS

NOTES:

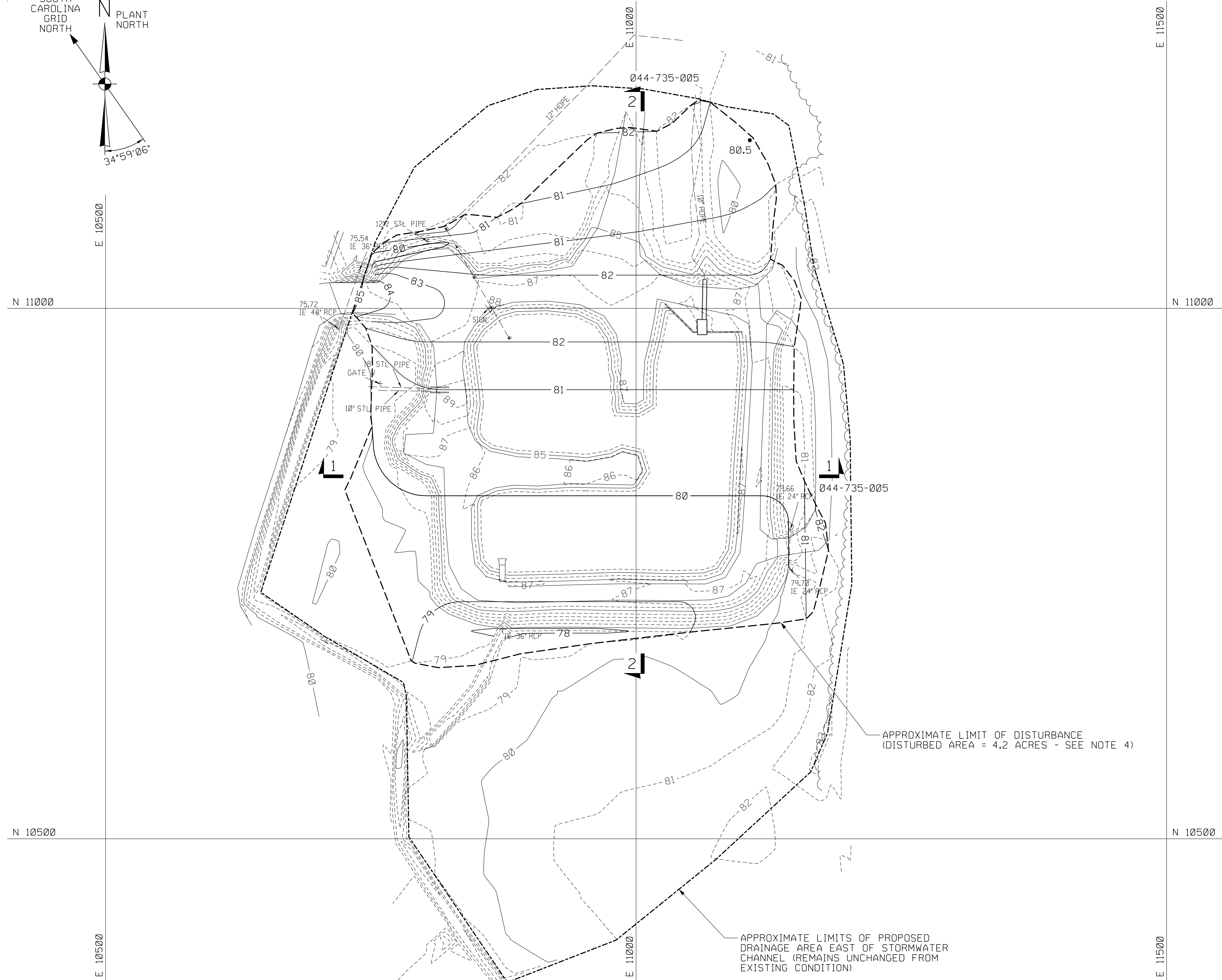
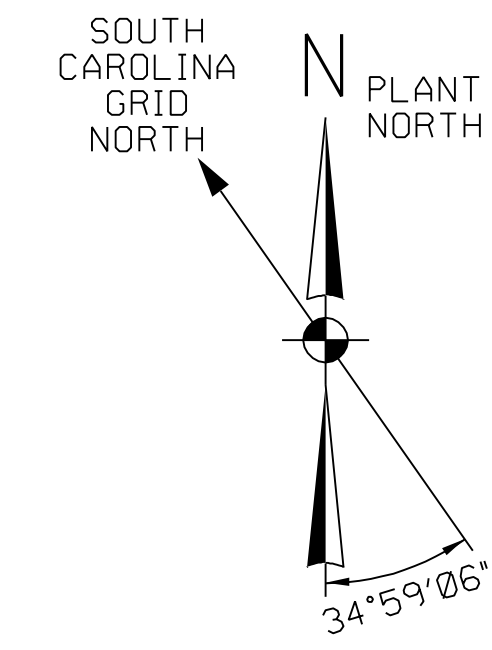
- GRID BASED ON THE PLANT COORDINATE SYSTEM.
- BACKGROUND TOPOGRAPHY IS BASED ON A SURVEY PERFORMED BY PARKER LAND SURVEYING, LLC, HANAHAN, SC DATED 08/31/15.
- ELEVATIONS BASED ON NGVD 29 DATUM UNLESS OTHERWISE STATED.
- ALL EXISTING MATERIAL WITHIN GYPSUM FILTRATE POND IS CONSIDERED CCR WASTE AND WILL BE DEWATERED AND HAULED TO THE CLASS THREE LANDFILL AFTER PASSING EPA METHOD 9095B (PAINT FILTER TEST). THE ORIGINAL DESIGN BOTTOM OF POND AT EL 77.5 REPRESENTS THE TOP OF THE UPPERMOST COMPONENT OF THE LINER SYSTEM (i.e. TOP OF 18" CLAY LAYER - SEE DETAIL 'A' ON DWG 044-735-005). THE LINER SYSTEM WILL BE INSPECTED FOR CONTINUITY AFTER WASTE IS REMOVED. IF ANY AREA IS DETECTED WHERE IT APPEARS THAT A PREVIOUS CLEANOUT EVENT HAS REMOVED A PORTION OF THE LINER SYSTEM, THIS AREA WILL BE REINSPECTED AFTER THE LINER SYSTEM IS REMOVED TO ENSURE ALL CCR WASTE HAS BEEN REMOVED. ANY WASTE REMAINING WILL BE REMOVED.
- CCR WASTE REMOVAL INCLUDES EXCAVATING TO THE LINER SYSTEM TO RE-ESTABLISH THE ORIGINAL DESIGN INTERIOR DIKE SLOPES. ADDITIONAL EXCAVATION MAY BE REQUIRED WHERE THE AS-BUILT DIKE LOCATION APPEARS OFFSET OUTWARD FROM THE ORIGINAL DESIGN DIKE LOCATION (e.g. NORTHEAST CORNER OF POND). CONVERSLEY, IF THE DIKE APPEARS OFFSET INTO THE POND, CCR WASTE REMOVAL WILL TERMINATE ONCE THE LINER SYSTEM IS ENCOUNTERED. IF ANY AREA IS DETECTED WHERE IT APPEARS THAT A PREVIOUS CLEANOUT EVENT HAS REMOVED A PORTION OF THE LINER SYSTEM, THIS AREA WILL BE REINSPECTED AFTER THE LINER SYSTEM IS REMOVED TO ENSURE ALL CCR WASTE HAS BEEN REMOVED. ANY WASTE REMAINING WILL BE REMOVED.
- APPROXIMATE LOCATION OF ORIGINAL DESIGN EXTERIOR DIKE TOE OF SLOPE IS SHOWN RELATIVE TO THE APPROXIMATE OUTER LIMIT OF EXISTING GYPSUM FILTRATE POND AREA. DURING PREVIOUS POND OPERATIONS, FILL HAS BEEN COMPACTED TO IMPROVE ACCESS INTO THE POND IN SOME LOCATIONS (WHERE THE APPROXIMATE OUTER LIMIT FALLS OUTSIDE THE ORIGINAL DESIGN EXTERIOR TOE OF SLOPE). AFTER ALL WASTE IS REMOVED FROM INSIDE THE POND, THESE AREAS WILL BE EXCAVATED TO ENSURE NO CCR IS PRESENT WITHIN THE FILL. ANY CCR DETECTED WILL BE REMOVED AND THE UNDERLYING NATURAL SOILS INCLUDED IN THE CONFIRMATION SAMPLING PROGRAM.



CLEAN CLOSURE SEQUENCE NARRATIVE:

- AFTER WASTEWATER INFLOW IS PERMANENTLY TERMINATED, USE EXISTING PUMPS TO DEWATER POND WHILE DECANTING WASTE WITHIN POND FOOTPRINT. WASTE ALSO MAY BE STABILIZED WITH ADDITIONAL LOW-MOISTURE CCR WASTE TO REDUCE WATER CONTENT, EITHER WITHIN POND FOOTPRINT OR WITHIN A SUITABLE CONTAINERIZED AREA WHERE CONTACT WATER IS COLLECTED FOR TREATMENT.
- REMOVE ALL EXISTING CCR WASTE AND COMPACT IN CLASS THREE LANDFILL. ALL WASTE SHALL PASS EPA METHOD 9095B (PAINT FILTER TEST) PRIOR TO DISPOSAL IN LANDFILL.
- REMOVE EXISTING POND LINER (18" CLAY SOIL, 6" CRUSHED STONE, AND 4" BENTONITE) AND COMPACT IN CLASS THREE LANDFILL. MATERIAL TO BE COMINGLED PRIOR TO DISPOSAL AND SHALL PASS EPA METHOD 9095B (PAINT FILTER TEST) PRIOR TO DISPOSAL IN LANDFILL.
- PERFORM CONFIRMATION SAMPLING AND TESTING OF POND BOTTOM AND EMBANKMENT SOIL, OR ANY OTHER SOIL FORMERLY UNDERLYING CCR WASTE.
- REMOVE EXISTING STRUCTURES AND UTILITIES PREVIOUSLY REQUIRED FOR POND OPERATION. THIS INCLUDES THE INFLOW PIPES, PIPE RACKS AND PIERS, CONCRETE TRENCH, CONCRETE APRON, AND EMERGENCY OVERFLOW STRUCTURE. REMOVE REMAINING STRUCTURES OR ISOLATE AND LEAVE IN PLACE (e.g. OUTFLOW PIPE AND PUMP STRUCTURE, INCLUDING ASSOCIATED PUMPS, ELECTRICAL, AND CONTROLS). STORE RE-USABLE EQUIPMENT OR MATERIALS ONSITE WHERE DIRECTED BY OWNER AND DISPOSE OF DEMOLITION WASTE OFFSITE.
- PERFORM EXCAVATION AND FILL TO ACHIEVE FINAL SITE GRADES. ESTABLISH PERMANENT SEEDING (SEE FINAL GRADING PLAN).

<table border="1"> <tr> <td>01/07/16</td> <td>ISSUED FOR PERMITTING</td> <td>KPF</td> <td>RES</td> <td>KPF</td> <td>FMW</td> <td>FMW</td> <td>JAW</td> </tr> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DRAWN</th> <th>CHECKED</th> <th>REVIEWED</th> <th>LEADER</th> <th>PROJECT</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		01/07/16	ISSUED FOR PERMITTING	KPF	RES	KPF	FMW	FMW	JAW	REV	DATE	DESCRIPTION	DRAWN	CHECKED	REVIEWED	LEADER	PROJECT								
01/07/16	ISSUED FOR PERMITTING	KPF	RES	KPF	FMW	FMW	JAW																		
REV	DATE	DESCRIPTION	DRAWN	CHECKED	REVIEWED	LEADER	PROJECT																		
<table border="1"> <tr> <td>DRAWN BY</td> <td>KPF</td> <td>ENGINEER/TECH SPECIALIST</td> </tr> <tr> <td>CHECKED BY</td> <td>R.E. STOUDT</td> <td>PROJECT ENGINEERING MANAGER</td> </tr> <tr> <td>LEAD DESIGNER</td> <td>K.P. FEEG</td> <td>PROJECT MANAGER</td> </tr> <tr> <td>PRELIMINARY STATUS</td> <td>DATE</td> <td>01/07/16</td> </tr> <tr> <td colspan="3"> <small>INFORMATION ONLY - NOT TO BE USED FOR CONSTRUCTION.</small> </td> </tr> <tr> <td>APPROVED STATUS</td> <td>DATE</td> <td></td> </tr> <tr> <td colspan="3"> <small>REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.</small> </td> </tr> <tr> <td colspan="2">CERTIFICATE OF AUTHORIZATION</td> <td>PROFESSIONAL ENGINEER'S SEAL</td> </tr> </table>		DRAWN BY	KPF	ENGINEER/TECH SPECIALIST	CHECKED BY	R.E. STOUDT	PROJECT ENGINEERING MANAGER	LEAD DESIGNER	K.P. FEEG	PROJECT MANAGER	PRELIMINARY STATUS	DATE	01/07/16	<small>INFORMATION ONLY - NOT TO BE USED FOR CONSTRUCTION.</small>			APPROVED STATUS	DATE		<small>REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.</small>			CERTIFICATE OF AUTHORIZATION		PROFESSIONAL ENGINEER'S SEAL
DRAWN BY	KPF	ENGINEER/TECH SPECIALIST																							
CHECKED BY	R.E. STOUDT	PROJECT ENGINEERING MANAGER																							
LEAD DESIGNER	K.P. FEEG	PROJECT MANAGER																							
PRELIMINARY STATUS	DATE	01/07/16																							
<small>INFORMATION ONLY - NOT TO BE USED FOR CONSTRUCTION.</small>																									
APPROVED STATUS	DATE																								
<small>REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.</small>																									
CERTIFICATE OF AUTHORIZATION		PROFESSIONAL ENGINEER'S SEAL																							
<p>CROSS GENERATING STATION</p> <p>Santee Cooper SOUTH CAROLINA PUBLIC SERVICE AUTHORITY</p>																									
<p>resources & energy</p>																									
<p>GYPSUM FILTRATE POND CLOSURE EXCAVATION AND DEMOLITION PLAN</p>																									
SCALE 1"=50'	DRAWING SIZE ARCH D (36" x 24')	JOB NO. 108008-01330																							
WORLEYPARSONS DWG. NO.		REV																							
CROSS-0-DW-044-735-003		0																							

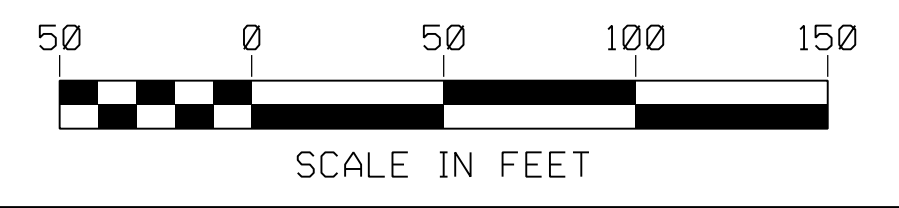


NOTES:

1. GRID BASED ON THE PLANT COORDINATE SYSTEM.
2. BACKGROUND TOPOGRAPHY IS BASED ON A SURVEY PERFORMED BY PARKER LAND SURVEYING, LLC, HANAHAN, SC DATED 08/31/15.
3. ELEVATIONS BASED ON NGVD 29 DATUM UNLESS OTHERWISE STATED.
4. ADDITIONAL DISTURBANCE MAY BE REQUIRED TO IMPLEMENT TEMPORARY EROSION CONTROL BMPs (NOT SHOWN). ALL AREAS DISTURBED DURING THE WORK WILL BE PERMANENTLY SEEDED.
5. FINAL GRADE CONTOURS MAY VARY FROM THOSE SHOWN AS REQUIRED TO OPTIMIZE EARTHWORK, BUT IN ANY CASE WILL PROVIDE GENERAL GRADING AND DRAINAGE PATTERN SHOWN (SOUTH TO EXISTING OUTFALL NO. 5).

LEGEND:

- 80 ----- EXISTING CONTOURS
- ===== 80 ===== FINAL CLOSURE GRADE CONTOURS



REV	DATE	DESCRIPTION	DRAWN	CHECKED	REVIEWED	LEADER	TECH. SPEC.	ENGINEER	PROJ. MGR.
0	01/07/16	ISSUED FOR PERMITTING	KPF	RES	KPF	FMM	FMM	JAW	

DRAWN BY KPF	ENGINEER/TECH SPECIALIST F.M. WOOD
CHECKED BY R.E. STOUDT	PROJECT ENGINEERING MANAGER J.A. WEIST
LEAD DESIGNER K.P. FEEG	PROJECT MANAGER T.E. EVANS
PRELIMINARY STATUS LDE F.M. WOOD	DATE 01/07/16
APPROVED STATUS LDE	DATE / /
INFORMATION ONLY - NOT TO BE USED FOR CONSTRUCTION.	
REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.	

<small>Copyright © 2016 WorleyParsons Services Pty Ltd. ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF PE: ELETCHER M. WOOD, STATE OF SOUTH CAROLINA, LIC. NO. 24767, DATE: 01/07/16.</small>	

CROSS GENERATING STATION

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

resources & energy

GYPSSUM FILTRATE POND CLOSURE FINAL GRADING PLAN

SCALE 1"=50'	DRAWING SIZE ARCH D (36" x 24')	JOB NO. 108008-01330
WORLEYPARSONS DWG. NO.	REV	
CROSS-0-DW-044-735-004		0

REFERENCES:

- 044-735-002 EXISTING CONDITIONS PLAN
- 044-735-003 EXCAVATION AND DEMOLITION PLAN
- 044-735-005 CROSS SECTIONS AND DETAILS

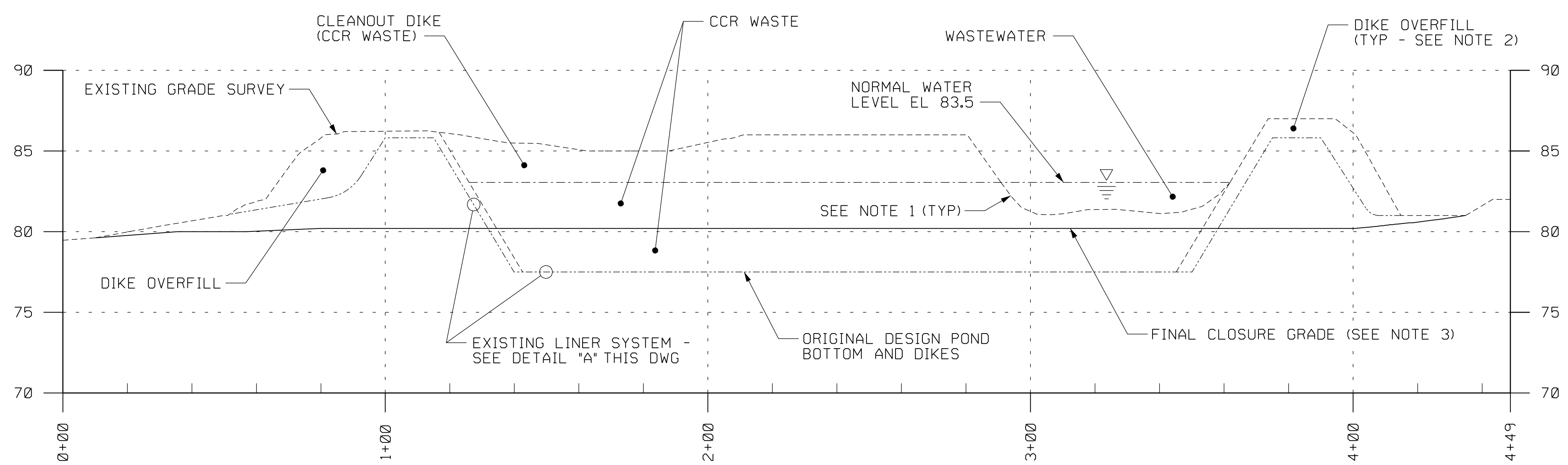
TO EXISTING CGS STORMWATER OUTFALL NO. 5

PLAN

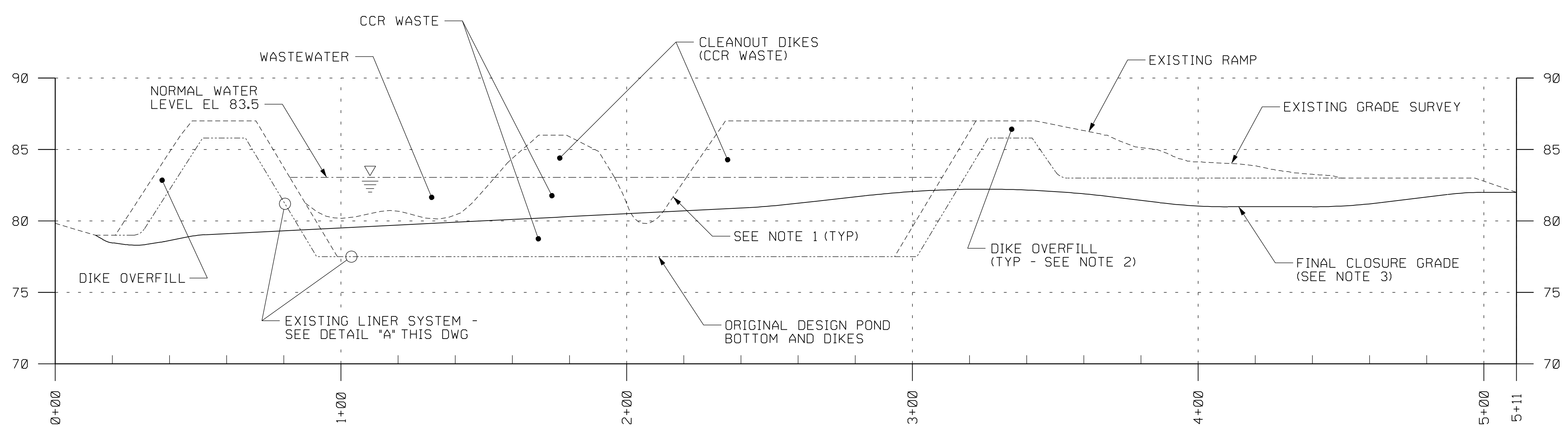
APPROXIMATE LIMIT OF DISTURBANCE (DISTURBED AREA = 4.2 ACRES - SEE NOTE 4)

APPROXIMATE LIMITS OF PROPOSED DRAINAGE AREA EAST OF STORMWATER CHANNEL (REMAINS UNCHANGED FROM EXISTING CONDITION)

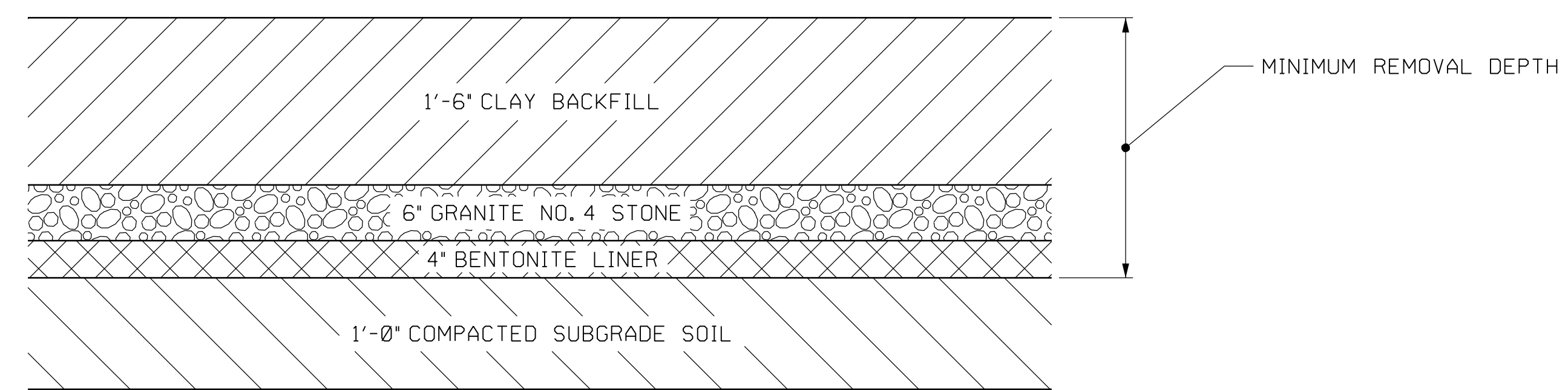
I:\cross-0-dw-044-735-004.dgn 1/7/2016 11:11:51 AM



SECTION 1-1
SCALE: HORIZ: 1" = 25'
VERT: 1" = 5'
(044-735-003, 004)



SECTION 2-2
SCALE: HORIZ: 1" = 25'
VERT: 1" = 5'
(044-735-003, 004)



DETAIL "A"
EXISTING LINER SYSTEM
NOT TO SCALE

NOTES:

1. TOP OF WASTE BELOW POND WATER LEVEL IS ASSUMED AND WILL BE VERIFIED PRIOR TO THE WORK.
2. DIKE OVERFILL INSIDE POND IS ASSUMED. EXISTING LINER LOCATION TO BE VERIFIED DURING EXCAVATION.
3. PERMANENT SEEDING TO BE ESTABLISHED IN ALL AREAS DISTURBED DURING THE WORK. FINAL GRADE CONTOURS REPRESENT FINAL GRADE AFTER 4" OF TOPSOIL IS APPLIED. FINAL GRADE CONTOURS MAY VARY FROM THOSE SHOWN AS REQUIRED TO OPTIMIZE EARTHWORK, BUT IN ANY CASE WILL PROVIDE GENERAL GRADING AND DRAINAGE PATTERN SHOWN (SOUTH TO EXISTING OUTFALL NO. 5).

REFERENCES:

- 044-735-003 EXCAVATION AND DEMOLITION PLAN
- 044-735-004 FINAL GRADING PLAN

0	01/07/16	ISSUED FOR PERMITTING	KPF	RES	KPF	FM	FM	JAW
REV	DATE	DESCRIPTION	DRAWN	CHECKED	REVIEWED	LEADER	TECH. SPEC.	PROJECT
DRAWN BY KPF			ENGINEER/TECH SPECIALIST F.M. WOOD					
CHECKED BY R.E. STOUDT			PROJECT ENGINEERING MANAGER J.A. WEIST					
LEAD DESIGNER K.P. FEEG			PROJECT MANAGER T.E. EVANS					
PRELIMINARY STATUS LDE F.M. WOOD 01/07/16			DATE INFORMATION ONLY - NOT TO BE USED FOR CONSTRUCTION.					
APPROVED STATUS LDE			DATE REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.					
CERTIFICATE OF AUTHORIZATION			PROFESSIONAL ENGINEER'S SEAL					
			<small>Copyright © 2016 WorleyParsons Services Pty Ltd</small>					
			SOUTH CAROLINA PUBLIC SERVICE AUTHORITY					
			resources & energy					
GYPHUM FILTRATE POND CLOSURE EXISTING AND FINAL GRADE CROSS SECTIONS AND DETAILS								
SCALE	AS NOTED	DRAWING SIZE	ARCH D (36" x 24')	JOB NO.	108008-01330			
WORLEYPARSONS DWG. NO.			CROSS-0-DW-044-735-005			REV		
						0		