

AMENDED CLOSURE PLAN FOR GYPSUM POND

**Plant Gorgas
Alabama Power Company
Parrish, Alabama**

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Contents

1.0	Introduction.....	1
2.0	General	1
3.0	Notification – Intent to Close	1
4.0	Written Closure Plan	2
4.1	Overview.....	2
4.2	Closure Steps	2
4.2.2	Removal of free water and in situ dewatering.....	3
4.2.3	Excavation of CCR	3
4.2.4	Removal of HDPE Liner	3
4.2.5	Removal of granular layer below the HDPE liner	3
4.2.6	CCR removal verification protocol.....	4
4.2.7	Fugitive Dust Control Plan (ADEM 335-13-15-.02(11); 40 CFR 257.53)	5
4.2.8	Stormwater Management During Closure	5
4.2.9	Site Security	5
4.2.10	Groundwater Monitoring	6
4.2.11	Operational inspections.....	6
4.3	Final Grading and Decommissioning	6
5.0	Maximum Inventory of CCR – § 257.102(b)(1)(iv) and r. 335-13-15-.07(3)(b)1.(iv).....	6
6.0	Certification of Closure.....	6
7.0	Directional Informational Signs	6
8.0	Vegetation Plan	6
9.0	SITE EQUIPMENT NEEDED	7
10.0	Sediment Removal.....	7
11.0	Erosion and Sediment Control.....	7
12.0	Cost of Closure.....	7
13.0	Closure Schedule	7
14.0	Recordkeeping/Notification/Internet Requirements.....	7

1.0 INTRODUCTION

This Amended Closure Plan has been prepared to support the permit application previously submitted to the Alabama Department of Environmental Management (ADEM) for the CCR Surface Impoundment known as the Plant Gorgas Gypsum Pond, located near Parrish, Walker County, Alabama. The permit application was submitted in accordance with ADEM Admin. Code r. 335-13-15-.09(1)(c). This Amended Closure Plan, along with other documents, is intended to supplement the previous submittal in response to the ADEM letter dated May 24, 2019 which provided response comments to the original application.

2.0 GENERAL

The Plant Gorgas Gypsum Pond was designed to receive and store coal combustion residuals (gypsum only) produced from the flue gas desulfurization system during the electric generating process at Plant Gorgas. Gypsum products were sluiced from the plant to the Gypsum Pond. The pond currently stores about 600,000 cubic yards of CCR.

The gypsum pond was constructed in 2007. An area approximately 50 acres in size was used to create the gypsum storage area. The gypsum pond itself covers approximately 18 acres. There is an area to the southeast at a lower elevation that consists of a sedimentation pond, clear pool, and an emergency storage pond. All ponds are lined with an HDPE liner.

As a part of construction, the existing soils/mine spoil was graded, the subgrade proofrolled and a granular fill consisting primarily of bottom ash was placed beneath the liner. Embankments were constructed of compacted soil fill obtained from nearby borrow pits. After initial construction, the downstream slopes of the embankment were surfaced with limestone riprap.

The Plant Gorgas Gypsum Pond will be closed through removal of the CCR. The gypsum pond will be dewatered as required to facilitate excavation of the gypsum for removal. All gypsum will be excavated and transported primarily for beneficial reuse. Some of the gypsum, however, may need to be disposed of in the Plant Gorgas Private Industrial Solid Waste permitted landfill (ADEM Solid Waste Permit No. 64-10, dated June 24, 2016). Closure will include removing all gypsum, followed by removal of the existing HDPE geomembrane and the underlying granular bottom ash layer. Excavation below the HDPE liner will include removing all visible bottom ash and over excavating into the subgrade soils. Additional details about the construction methods to be used can be found within this Closure Plan.

3.0 NOTIFICATION – INTENT TO CLOSE

Notification of intent to close the Plant Gorgas Gypsum Pond was placed in the plant's Operating Record on April 15, 2019. The notice of intent was subsequently submitted directly to ADEM. The surface impoundment is closing under the requirements of § 257.101(a)(1) and r. 335-13-15-.07(2)(a)1. Closure of the surface impoundment will be conducted under § 257.102(c) and r. 335-13-15-.07(3)(c), closure by removal of CCR. Closure will include confirmation that groundwater monitoring concentrations do not exceed the groundwater protection standard established for constituents in Appendix IV of this Rule.

Major closure activities will commence following receipt of a CCR permit from ADEM pursuant to r. 335-13-15-.09. Removal of gypsum for beneficial reuse purposes is ongoing pending receipt of the closure permit from the Department.

4.0 WRITTEN CLOSURE PLAN

4.1 Overview

The Plant Gorgas Gypsum Pond is being closed by removal of CCR in accordance with § 257.102(c) and r. 335-13-15-.07(3)(c).

The Gypsum Pond contains approximately 600,000 cubic yards of CCR with a current pond footprint of about 18 acres. After closure, the embankments will be modified so that the pond no longer impounds water.

The closure consists of excavation of CCR from above the existing HDPE liner, followed by removal of the HDPE liner and the underlying 12-in layer of granular material that consists primarily of bottom ash. During closure, the gypsum pond will be progressively dewatered as required to facilitate closure by removal. Water from the gypsum pond will continue to be directed to the lower ponds. Water will be returned to the plant for treatment in the wastewater treatment facility. Once the gypsum pond is closed through the removal of the gypsum, liner and underlying granular layer, decommissioning of the lower sedimentation pond, clear pool and emergency storage pond will take place, removing any sediment and the HDPE liners. This area will then be regraded for management of stormwater runoff for the closed facility.

4.2 Closure Steps

Closure of the Plant Gorgas Gypsum Pond will occur in a series of phases / steps to achieve the planned closure, including:

- dewatering of CCR;
- excavation of CCR from the impoundment;
- removal of the HDPE liner and underlying granular layer;
- breaching and regrading of the southeast embankment so the facility will no longer impound water;
- decommissioning and regrading of the lower elevation pond system.

Initial stages of dewatering will include lowering of the pond levels through pumping and gravity flow to the lower pond system for pumping to the plant's wastewater treatment facility. Plant Gorgas has been retired and no longer generates electricity, and therefore no longer produces gypsum and gypsum transport water. Therefore, the only water that enters the pond is the rainwater that falls into it.

4.2.1.1 Contractor Mobilization and Removal of Gypsum for Beneficial Reuse

As much of the gypsum as possible will be reused for beneficial reuse purposes. The CCR marketer will be responsible for management of the CCR removal. All gypsum will be removed to fully expose the HDPE liner.

Site access will be restricted and monitored via security at access gates.

Current site infrastructure will remain and be relied upon to facilitate closure, including all roads, sedimentation and other ponds, as well as the pumps that return water from these ponds to the plant's treatment facilities. Additional temporary site infrastructure (such as additional access roads, security gates, temporary offices and shelters, etc.) will be developed as needed.

4.2.1.2 *Vegetation Management*

There is no significant vegetation in or around the pond that requires removal. What limited vegetation that does exist will be removed and properly disposed of. In the event any vegetation is present that is in contact or comes in contact with CCR, measures will be taken to wash such vegetative materials prior to further processing and handling onsite via approved means such as mulching, controlled burning, etc.

4.2.2 *Removal of free water and in situ dewatering*

Initial dewatering will include removal of free water and interstitial water from the impoundment through gravity drainage (utilizing existing decant systems) and pumping, as needed, to allow for excavation of the gypsum. Free and interstitial water in contact with CCR will be directed to the lower elevation sedimentation and process ponds and then pumped to the Plant's treatment facility for treatment to established regulatory limits prior to discharging off site through the existing NPDES discharge point.

4.2.3 *Excavation of CCR*

The gypsum will be excavated from the impoundment using mechanical means, with the majority of the gypsum taken off-site for beneficial reuse. There is a possibility that some material may be placed in the Plant Gorgas permitted Private Industrial Solid Waste Landfill that is also located on plant property. The gypsum will be removed down to the HDPE liner using means that will not damage the liner until all gypsum has been removed. The liner will be cleaned using washing or other appropriate means to ensure all gypsum has been removed.

4.2.4 *Removal of HDPE Liner*

Once all gypsum has been removed, the HDPE liner will be removed and properly disposed of in a permitted landfill. Methods of removal of the liner will be the responsibility of the Contractor selected to perform the work, but it is anticipated that the liner will be cut into portions suitable for handling and transport for disposal in a permitted landfill. As stated above, the liner will be cleaned of all visible gypsum using washing or other appropriate means prior to its removal.

4.2.5 *Removal of granular layer below the HDPE liner*

At the time of construction, a 12-in (nominal) thickness of granular material was placed on top of the graded subgrade and prior to the installation of the HDPE liner. This granular layer was designed to be constructed using bottom ash. Therefore, this granular layer will be removed down to the impoundment subgrade as a part of closure using mechanical excavation means.

Excavation will be undertaken using conventional excavators, loading directly into trucks. The granular layer materials will be treated as CCR and will be disposed of in a permitted landfill, either the on-site Plant Gorgas Industrial Landfill permitted to receive CCR, or in an approved off-site permitted landfill. All equipment departing the site that have been in contact with CCR will be decontaminated via washing to remove all CCR materials. The overspray and all contact water from decontamination operations will be stored on site and treated prior to discharge.

4.2.6 CCR removal verification protocol

The procedure for of CCR granular layer beneath the HDPE liner will involve the following steps:

- 1) Identification and demarcation of the area (or portion of the area) subject to removal verification. It is noted that the verification and documentation of removal procedures may be completed in phases.
- 2) Removal of CCR such that no CCR remains visible.
- 3) Visual inspection and documentation of the area by qualified person.
 - a. For areas where the CCR and the underlying fill or mine spoil materials are difficult to distinguish, a hand lens or other visual aid may be used by the qualified person to aid the visual inspection.
 - b. For areas where a clear color contrast between accumulated CCR and natural ground exists, colorimetric methods (such as the Munsell Color Chart) can be considered to supplement visual identifications.
- 4) If required, repeat steps 1 through 3 until CQA Engineer is satisfied that no CCR remains visible.
- 5) Complete "Pre 6-Inch Over-Dig Survey" and photographic documentation of applicable removal area(s).
 - a. The Pre and Post 6-inch Over-Dig surveys will be performed either by:
 - A grid of discrete survey points with a maximum 100-ft spacing (each way). Horizontal control shall be within 0.1 ft, and vertical control shall be within 0.02 ft; or
 - For large areas, a photogrammetric or Lidar survey capable of generating a continuous surface of the surveyed area. For near continuous surveys Horizontal and Vertical controls for Pre and Post Over Dig surveys can be reduced to 0.2 and 0.04 ft, respectively.
- 6) Over-excavation of a minimum of 6 inches in the designated removal area(s).
- 7) Complete Post 6-Inch Over-Dig Survey and photographic documentation using the same survey points, procedures, and prescribed minimum tolerances as for the Pre 6-Inch Over-Dig Survey. Complete verification of the prescribed minimum 6" removal across the removal area by survey and visual comparison of the removal area(s).
- 8) Hand augers borings or other means of limited excavation to 12" depth will then be performed at a minimum frequency of every acre and the collected samples visually assessed to check for the presence of CCR materials below the visible surface.

The details of the CCR Removal verification procedures are further outlined and incorporated into the project Quality Assurance Plan and technical specifications for closure.

4.2.7 Fugitive Dust Control Plan (ADEM 335-13-15-.02(11); 40 CFR 257.53)

The fugitive dust control plan identifies and describes the CCR fugitive dust control measures that will be implemented during closure to minimize CCR from becoming airborne at the facility, including CCR fugitive dust originating from the gypsum pond, roads, and material handling activities. 40 CFR 257.53 and ADEM Admin. Code rule 335-13-15.02(11) defines “fugitive dust” as “solid airborne particulate matter that contains or is derived from CCR, emitted from any source other than a stack or chimney”.

Fugitive dust originating from the gypsum pond or gypsum pond closure activities will be controlled using water suppression or polymer tackifiers.

The fugitive dust control measures identified and described in the plan will be adopted and implemented based upon an evaluation of site-specific conditions and are determined to be applicable and appropriate for the Plant Gorgas Gypsum Pond closure. Evaluation will include assessing the effectiveness of the fugitive dust control measures for the facility, taking into consideration various factors such as site conditions, weather conditions, and operative conditions.

Water suppression or polymer tackifiers will be used as needed to control fugitive dust on the facility roads used to transport CCR and other CCR management areas. Speed limits will be utilized to reduce the potential for fugitive dust. Trucks used to transport CCR will be filled to just under full capacity to reduce the potential for material spillage.

Southern Company and construction personnel will assess the effectiveness of the control measures by performing visual observations of the gypsum pond and surrounding areas and implementing appropriate corrective actions for fugitive dust, as necessary.

Any complaint received from a citizen regarding a CCR fugitive dust event at the facility will be documented and investigated. Appropriate steps will be taken, including any corrective action, if needed.

4.2.8 Stormwater Management During Closure

Stormwater management will mainly entail management of water that falls into the pond during rain events. The facility is designed to divert runoff from adjoining areas around the impoundment. The water that falls into the pond during rain events will have to be managed through the construction areas during closure.

Stormwater management during closure will be achieved by the management and operation of temporary berms, linings, and pumps to convey contact water as needed to facilitate excavation of the gypsum, removal of the HDPE liner and removal of the granular layer below the HDPE liner. All water will be routed through the lower sedimentation pond before being pumped to the plant’s water treatment facility.

4.2.9 Site Security

All access points to the site will be gated and gates will be locked with controlled access by approved personnel only. The facility is located on Plant Gorgas property, and access to the plant is controlled by the plant security team. There may be an additional security checkpoint at the facility itself. All site visitors including construction personnel will be required to check in at the security point before being allowed to enter the site. No unauthorized personnel will be allowed to enter the site.

4.2.10 Groundwater Monitoring

A groundwater monitoring plan was submitted with the original Plant Gorgas Gypsum Pond permit application. Please refer to Appendix 4 of the original permit application.

4.2.11 Operational inspections

Inspections will be conducted by a Qualified Person at intervals not exceeding 7 days to look for appearances of structural weakness and for proper operation of all outlet structures maintained for use during closure. Furthermore, an annual inspection will continue to be conducted by a qualified Professional Engineer throughout the closure process.

4.3 Final Grading and Decommissioning

Once all CCR and liner removal activities have been completed within the gypsum pond, the southeast embankment will be regraded and breached so that the facility can no longer impound water. Also, the series of ponds to the east that are present at a lower elevation will be decommissioned as well by the removal of any sediment and their HDPE liners. Areas of the pond will then be regraded as needed to facilitate stormwater management from the area. Some retention is expected prior to discharging any non-contact stormwater from the site.

5.0 MAXIMUM INVENTORY OF CCR – § 257.102(B)(1)(IV) AND R. 335-13-15-.07(3)(B)1.(IV)

The current estimate of the maximum inventory of CCR ever on-site at the Gorgas Gypsum Pond over the active life of the CCR unit is nominally 925,000 cubic yards. The current estimated inventory is approximately 600,000 cubic yards.

Maximum unit inventory volume figures are derived from available information.

6.0 CERTIFICATION OF CLOSURE

In accordance with §257.102(h) and r. 335-13-15-.07(3)(h), within 30 days of completion of closure of the Plant Gorgas Gypsum Pond, a professional engineer registered in Alabama will prepare and APC will submit a Closure Construction Certification Report to ADEM documenting the completion of closure activities as indicated in § 257.102(f)(3) and r. 335-13-15-.07(3)(f)3. APC, as required by ADEM, will submit confirmation that a notation on the property deed has been recorded in accordance with § 257.102(i) and r. 335-13-15-.07(3)(i).

7.0 DIRECTIONAL INFORMATIONAL SIGNS

A designated construction entrance and access road will be established prior to initiating closure activities. Signs will be posted at the entrance notifying users of the closure activities and a telephone number for emergencies will be posted. Emergency evacuation routes will be maintained for the duration of closure activities.

8.0 VEGETATION PLAN

Disturbed areas will be vegetated in accordance with the Erosion and Sedimentation Control Plans submitted as a part of the permit application.

9.0 SITE EQUIPMENT NEEDED

The Contractor selected to perform closure construction will be responsible for all equipment needed during the construction period. For post-closure care, Alabama Power will provide all necessary company owned, leased or contracted equipment needed to perform maintenance and any necessary repairs.

10.0 SEDIMENT REMOVAL

On a periodic basis during closure, accumulated sediment will be removed when necessary from drop inlets, drainage pipes, diversion ditches, and other drainage structures.

11.0 EROSION AND SEDIMENT CONTROL

Upon closure, all proposed ditches, diversion berms, culverts, riprap, and other drainage structures serving disturbed areas, but not already built, will be constructed and placed according to the Design Drawings.

12.0 COST OF CLOSURE

Development of a construction cost estimate for this project is currently underway. The cost estimate can be provided once it is available.

13.0 CLOSURE SCHEDULE

A detailed construction schedule is attached to this Amended Closure Plan as Table 1.

14.0 RECORDKEEPING/NOTIFICATION/INTERNET REQUIREMENTS

As outlined in § 257.105 and r. 335-13-15-.08(1), each Owner or Operator of a CCR unit subject to the Department regulations must maintain files of certain information in an operating record at the facility. Each file is to be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, record or study. Electronic storage of the records is acceptable. These records are to be made available to the Department upon request.

Certain notifications are to be made in accordance with the requirements of § 257.106 and r. 335-13-15-.08(2). In many instances, such notifications are to be placed in the facility's Operating Record. In certain instances, further notifications are to be made to the Department Directory within 30 days of placement of a notification into the Operating Records. Furthermore, a publicly accessible internet site must be established for posting of certain notifications and compliance information within 30 days of it being placed in the Operating Record.

Alabama Power and Plant Gorgas maintain an electronic Operating Record for the facility. In addition, a publicly accessible internet site has already been established for compliance with EPA's CCR Rule. Required notifications and compliance data, as outlined in § 257.105 through § 257.107 and r. 335-13-15-.08 and as applicable to the Plant Gorgas Gypsum Pond, will be maintained in the electronic Operating Record, and as required, made available on the publicly accessible internet site within 30 days of placement in the Operating Record. Furthermore, required notifications will be made to the Department Director within 30 days of placement in the Operating Record.

Certain plans and assessments are required to be updated at specified intervals and/or upon modification of certain components of the facility. If and when applicable, updates will be made to the respective plans and assessments, and notifications placed in the Operating Record, posted to the

publicly accessible internet site, and communicated in writing to the Department Director in accordance with the Department rules.

Table 1: Gorgas Gypsum Pond Closure Milestones Schedule (335-13-15-.07(3)(b)1.(vi))

Closure Activity	Completion Date
Notice of Intent to Close	October 2016
Cease Receipt of Waste Streams	April 2019
Beneficial Use Sales	Ongoing
Initiate Construction Activities	January 2022
Finalize Construction Activities/Site Restoration	October 2023

TECHNICAL SPECIFICATION REFERENCE FOR PLANT GORGAS GYPSUM POND CLOSURE

- 1. REFER TO THE PROJECT TECHNICAL SPECIFICATIONS SECTION 31 23 00 FOR EXPANION AND BACKFILL FOR PLANT GORGAS GYPSUM POND CLOSURE. REFER TO THE EXPANION AND GRADING NOTES FOR EXPANION AND BACKFILL REQUIREMENTS.

GENERAL CONSTRUCTION NOTES:

- 1. GRID COORDINATE SYSTEM IS ALABAMA STATE PLANS M027 WEST ZONE GRID.
2. SEE SURVEY AND TOPOGRAPHY NOTES, THIS DRAWING, FOR SURVEY INFORMATION.
3. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE 'ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS', CURRENT EDITION.
4. CONTRACTOR SHALL COORDINATE WITH PCL ON SAFETY MEASURES REQUIRED FOR ALL WORK UNDER AND IN THE VICINITY OF EXISTING POWER LINES.
5. EXISTING ACCESS AND ROADS SHALL BE MAINTAINED AND REPAIRED AS NECESSARY DURING CONSTRUCTION BY THE CONTRACTOR TO THE SATISFACTION OF THE PURCHASER'S PROJECT CONSTRUCTION MANAGER, PCL.
6. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING HIS OWN STANDARD QUALITY CONTROL AND QUALITY ASSURANCE PROGRAM AND PRACTICES AND SHALL INSTITUTE ANY ADDITIONAL CONTROLS OR PROCEDURES IN ACCORDANCE WITH PROVEN INDUSTRY PRACTICE TO ASSURE COMPLIANCE WITH THESE DRAWINGS AND TECHNICAL SPECIFICATIONS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANNING AND OPERATING ANY DEMONING, SURFACE WATER RUNOFF CONTROL, AND PROVISIONS FOR DAMAGE OF EXCAVATIONS, AND FOR THE PLACEMENT OF MATERIALS. SUCH WORK SHALL BE AT AN ADDITIONAL EXPENSE TO THE PURCHASER.
8. ALL WORK SHALL BE IN STRICT COMPLIANCE WITH CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING/BRACING REQUIRED FOR INSTALLATION OF PIPES AND APPURTENANCES INCLUDING ANY DEEP EXCAVATIONS REQUIRING A PROFESSIONAL ENGINEER'S DESIGN.
9. CONSTRUCTION ACTIVITIES INCLUDING MATERIAL STOCKPILING ARE NOT PERMITTED IN AREAS OUTSIDE OF THE DESIGNATED LIMITS OF DISTURBANCE UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR AS APPROVED BY THE PCL.
10. CONSTRUCTION DEBRIS, FORMABLE FILL, OLD SUPPORT MATERIALS OR OTHER REFUSE SHALL BE DEPOSED IN APPROVED LANDFILLS OFF-SITE.
11. SEE EROSION CONTROL PLANS FOR BEST MANAGEMENT PRACTICES (BMP'S) NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT. THESE PLANS REPRESENT THE MINIMUM REQUIRED TO CONSTRUCT THIS PROJECT. ADDITIONAL BMP'S WILL BE NECESSARY AS THE PROGRESS OF CONSTRUCTION REQUIRES. ALL WORK SHALL BE IN ACCORDANCE WITH THE ALABAMA WRPES CONSTRUCTION STORMWATER DISCHARGE GENERAL PERMIT FOR STAND ALONE CONSTRUCTION PROJECTS AND THE 'ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS' (CURRENT EDITION).
12. SIX INCHES OF UNSETTLED TOPSOIL SHALL BE PLACED ON ALL AREAS THAT REQUIRE PERMANENT GRASSING (UNLESS NOTED AS ENGINEERED SOIL (BIO) COVER) PRIOR TO APPLICATION OF SEEDING. THE CONTRACTOR SHALL ADHERE TO PROPER SEEDING PROCEDURES AND SPECIFICATIONS, SPECIFICALLY, PAGE 119 THROUGH 127 OF THE 'ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS', LATEST EDITION. THE CONTRACTOR SHALL PERFORM SOIL TESTS TO DETERMINE AND IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS OR OTHER SOIL AMENDMENTS FOR ALL AREAS THAT REQUIRE PERMANENT SEEDING.
13. THE CONTRACTOR SHALL PROVIDE AN OPTION AND PRICE FOR USING A BIOIC SOIL AMENDMENT SUCH AS PROGRAMS BY PROFITE OR OTHER SIMILAR PRODUCT. THIS OPTION SHALL INCLUDE SOIL TESTING AND RECOMMENDATIONS FROM THE ALABAMA COOPERATIVE EXTENSION IN MURRAY, AL. SOILS TESTS, RECOMMENDATIONS, AND SEED MIXES (TEMPORARY AND PERMANENT) SHALL BE SUBMITTED TO THE PCL AND ENGINEER PRIOR TO PURCHASING AND PRIOR TO APPLICATION OF THE SOIL AMENDMENT AND SEEDING.
14. SPECIAL APPLICATIONS OF TEMPORARY OR PERMANENT VEGETATION MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO ESTABLISH AN ACCEPTABLE FINAL RESTORATIVE COVER. THE CONTRACTOR SHALL ADJUST HIS/HER BID ACCORDINGLY TO ACCOUNT FOR THIS DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER STRUCTURES (PIPES, CULVERTS, INLETS, JUNCTION BOXES, ETC.) FROM DAMAGE AND ENSURE THEY REMAIN OPERATIONAL UNLESS SPECIFIED OTHERWISE. ANY DAMAGE TO THESE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

DEMOLITION NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO EXISTING IMPROVEMENTS ON- OR OFF-SITE DUE TO THE CONSTRUCTION OF THE PROJECT. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE PURCHASER.
2. CONTRACTOR SHALL COORDINATE WITH PURCHASER PRIOR TO BEGINNING DEMOLITION OPERATIONS. CONTRACTOR SHALL COORDINATE DEMOLITION OPERATION PHASING WITH PURCHASER PRIOR TO AND THROUGHOUT THE PROJECT LIFE.
3. SOME EXISTING UTILITIES SCHEDULED TO REMAIN ARE LOCATED WITHIN PROPOSED PROJECT LIMITS. CONTRACTOR SHALL MAINTAIN THESE UTILITIES AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THEM. CONTRACTOR SHALL MAINTAIN ANY AND ALL UTILITY MARKERS LOCATED BY UTILITY LINE LOCATOR SERVICE PRIOR TO ANY DEMOLITION AND/OR CONSTRUCTION OPERATIONS.
4. CONTRACTOR SHALL COORDINATE WITH PURCHASER PRIOR TO DISTRIBUTION OF ANY UTILITY SERVICE.
5. ALL UTILITY LOCATIONS, DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL/RELOCATION OF ALL ABOVE AND BELOW GROUND EXISTING IMPROVEMENTS THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.
7. DEMOLITION OF ANY AND ALL MATERIALS TO BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT REGULATIONS.

STORM DRAINAGE PIPES/APPERTENANCES GENERAL INFORMATION & NOTES:

- 1. PIPE LENGTHS AND SLOPES ARE CALCULATED FROM THE WORK POINTS OF THE PIPES/STRUCTURES. WORK POINTS FOR PIPES/STRUCTURES:
- YARD INLET - CENTER OF STRUCTURE
- YARD INLET - CENTER OF STRUCTURE
- GRADE INLET - CENTER OF STRUCTURE
- PIPES WITH SLOPE PAVED HEADWALL - END OF PRE/FACE OF CONCRETE
- PIPES WITH NO END TREATMENT - END OF PIPE
2. ALL MANHOLES SHALL CONTAIN STEPS INSTALLED IN ACCORDANCE WITH OSHA REGULATIONS AND SHALL BE SEALED AT JOINTS AND PRE ENTRY/EXIT POINTS TO PROVIDE A WATERPROOF STRUCTURE.
3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL STORM PIPE MATERIALS TO THE PROJECT CONSTRUCTION MANAGER PRIOR TO INSTALLATION AND/OR FABRICATION.
4. STORM DRAINAGE SYSTEMS SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM. VERIFY ALL PRE GRADERS, INVERT ELEVATIONS, AND CONNECTION POINTS PRIOR TO CONSTRUCTION. NOTIFY THE PROJECT CONSTRUCTION MANAGER OF ANY AND ALL DISCREPANCIES.
5. ALL STORM PIPES SHALL BE BEDDED IN A MINIMUM OF 6" OF CRUSHED AGGREGATE (A1017 NO. 57 STONE OR APPROVED EQUAL).
6. ALL STORM PIPES SHALL BE CORRUGATED AOS N-12 WITH OR SOLID WALL OR 32.5 FUSION WELDED PEHD PIPE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE NOTED.

EXCAVATION AND GRADING NOTES:

- 1. ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE PURCHASER.
2. ALL EXISTING IMPROVEMENTS SHALL REMAIN UNLESS SPECIFICALLY NOTED. TO BE REMOVED.
3. COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE GRADY PLAN.
4. NEW GRADERS INDICATED ON THESE PLANS ARE TO FINISH GRADE. THE CONTRACTOR SHALL MAKE SUBGRADE ADJUSTMENTS FOR TOPSOIL, PAVING, ROCK, POND LINERS, ETC.
5. CONTRACTOR SHALL NOT CONDUCT ANY CONSTRUCTION OPERATIONS INSIDE OF DELINEATED WETLANDS, STREAM BUFFERS, OR OTHER SENSITIVE AREAS WITHOUT THE APPROVAL OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SENSITIVE AREAS WITHIN THE CONSTRUCTION OF THIS PROJECT. ANY DAMAGES SHALL BE REPAIRED OR REBUILT AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR MAY ADJUST DESIGN COORDINATES AND ELEVATIONS OF THE FLAT BOTTOM STORMWATER DRAINAGE CHANNELS/SWALES TO AVOID UTILITIES AND/OR BEST FIT THE DRAINAGE CHANNELS TO EXISTING FIELD CONDITIONS. CONTRACTOR SHALL NOTIFY THE PURCHASER WITHIN 10 BUSINESS DAYS OF THE DESIGNED VARIATION BEFORE ATTEMPTING FIELD ADJUSTMENTS.
7. ALL DRAINAGE CONSTRUCTION SHALL BE DONE TO THE LINES, GRADES, AND CROSS SECTIONS SHOWN ON THE DRAWINGS. THE CONTRACTOR WILL ESTABLISH ALL NECESSARY BENCHMARKS AND BEEB LINES REQUIRED FOR THE WORK.
8. ALL SLOPES SHALL BE 4:1 FEET HORIZONTAL TO 1:1 FOOT VERTICAL UNLESS SHOWN OTHERWISE.
9. ALL EXCAVATED MATERIAL USED AS BACKFILL SHALL MEET ALL REQUIREMENTS FOR BACKFILL AS STATED IN TECHNICAL SPECIFICATIONS SECTION 31 23 00.
10. ALL EXCAVATED MATERIAL NOT SUITABLE FOR BACKFILL SHALL BE PROPERLY DISPOSED OF IN AN APPROVED LOCATION AS DIRECTED BY THE PCL.
11. PROPOSED CONTOUR ELEVATION 1 FOOT.

SURVEY AND TOPOGRAPHY NOTES:

- 1. TOPOGRAPHIC SURVEY PROVIDED BY SOUTHERN COMPANY CIVIL FIELD SERVICES, MARCH 2018. EXISTING CONTOUR INTERVAL 2 FOOT.
2. EXISTING CONTOURS BEYOND THE LIMIT OF SURVEY TAKEN FROM DRAWING D-501491, DATED SEPT. 2006. EXISTING CONTOUR INTERVAL 10 FOOT.

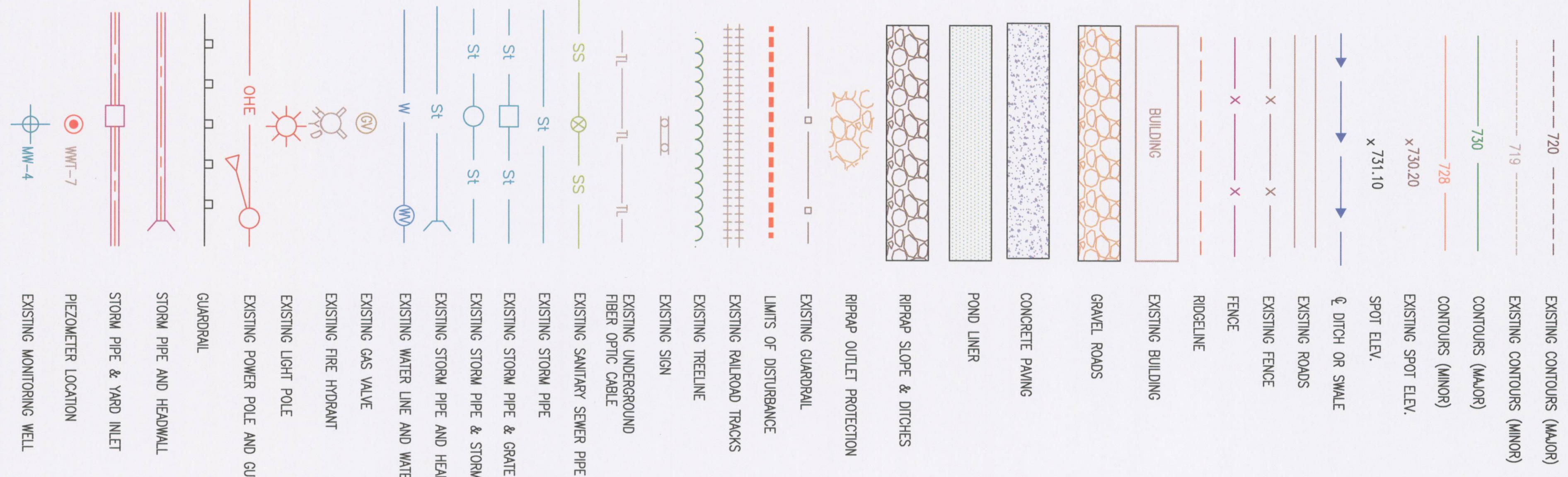
GENERAL NOTES FOR SEQUENCING ACTIVITIES

- 1. CONTRACTOR SHALL EXCAVATE ANY RESIDUAL GYPSUM, 1" ASH LAYER AND AN ADDITIONAL 6" FROM WITHIN THE GYPSUM CELL AND TRANSPORT OFF-SITE. PROPOSED GRADING SHOWN WITHIN THE EXISTING CELL ON PHASE 1 DRAWINGS REPRESENT THE EXCAVATION, PRE-GYPSUM AND PRE-ASH PLACEMENT ELEVATIONS WERE DETERMINED BASED ON LIMITED INFORMATION AND ARE APPROXIMATE. INFORMATION TAKEN FROM DRAWING D-501422 DATED MARCH 2007. CONTRACTOR SHALL VERIFY BOTH HORIZONTAL AND VERTICAL EXTENTS OF ASH IN THE FIELD. F BEDROCK IS ENCOUNTERED WITHIN THE 6' BELOW PRE-ASH PLACEMENT SURFACE. ASH WILL BE REMOVED TO BEDROCK.
2. CONTRACTOR SHALL CONSTRUCT NEW TEMPORARY SEDIMENT POND.
3. STORMWATER WITHIN THE GYPSUM CELL SHALL CONTINUE TO DRAIN VIA EXISTING LEACHATE COLLECTION RESERS AND PIPES TO EXISTING SEDIMENT POND WITH THE RETURN WATER SYSTEM IN OPERATION SENDING DISCHARGE TO THE PLANT WATER TREATMENT FACILITY.
4. CONTRACTOR SHALL ADD/REMOVE ADDITIONAL TEMPORARY PIPES AS NEEDED TO MANAGE WATER WITHIN WORK AREAS.
5. EMERGENCY STORAGE CELL LINER MAY BE REMOVED AND ASH TRANSPORTED OFF-SITE. ALL ASH CONTACT WATER TO BE PUMPED TO THE EXISTING CLEAR POOL FOR RETURN TO THE WATER TREATMENT PLANT.
6. CONSTRUCT NEW DISCHARGE PIPE FROM SW CORNER OF SITE TO THE TRANSLOADER AREA. PUMP INLET UNTIL SUCH TIME THAT THE SEDIMENT AND CLEAR POOL POUNDS HAVE BEEN REMOVED AND THE AREA GRADED AND GRASSED WITH SUFFICIENT COVER.

PHASE 2

- 1. CONTRACTOR SHALL GRADE FLOWERS AND DITCHES ALONG SLOPES FOR THE COMPLETION OF STORMWATER WITHIN THE EXISTING GYPSUM CELL.
2. PRIOR TO OPENING OF CELL DUNE, ALL GYPSUM, ASH, AND LINER SHALL BE REMOVED FROM THE CELL, AND THE NEWLY GRADED CELL AREA SHALL BE GRASSED.
3. UPON OPENING OF THE CELL DUNE AND COMPLETING DISCHARGE DITCH TO THE TEMPORARY SEDIMENT POND, THE PROCESS SEDIMENT POND AND CLEAR POOL LINER SYSTEMS ALONG WITH ASH LAYER SHALL BE REMOVED AND DISPOSED OF OFF-SITE. THE AREA SHALL THEN BE GRADED TO DRAIN TO THE SW CORNER AND THE SITE GRASSED.
4. RETURN WATER SYSTEM MAY BE DECOMMISSIONED AND DEMOLITION OF BUILDINGS AND EQUIPMENT MAY BEGIN WHEN ALL ASH MATERIAL HAS BEEN REMOVED FROM THE SITE AND CONTRACTOR HAS A WORKING PLAN/SYSTEM TO MANAGE STORMWATER.

LEGEND



ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes A.S.A.H.T.O., A.S.T.M., B.C.C.M.P., B.O.P., C.C., C.M.P., C.M.C., C.O.R., C.P.V.C., C.F., D.A., D.B.L., D.P., D.T., E.L., E.O.C., E.O.P., E.P.C.M., E.S.R.P., F.B.C., F.C., F.F.S., F.T.E., G.C.B.R.K., G.I., H.D.P.E., H.P., H.P., I.L., I.B., L.O.D., L.F., L.F., L.P., L.P., M.H., M.I., M.S., N.T.S., O.F.B., P.I., P.I.V., P.O.C., P.O.C., P.P., P.P., P.S.F., P.S.F., P.V.L., P.V.L., P.V.C., P.V.C., R.C.A.P., R.C.P., R.O.W., S.C.H., S.C.H., S.E.L., S.E.L., T.O.E., T/B, T/C, T.O.P., T/O.P., T/YR, T/YR, T.Y.S., V.C., V.C., W.P.

REFERENCES:

- 1. E720308
2. E720310-E720341

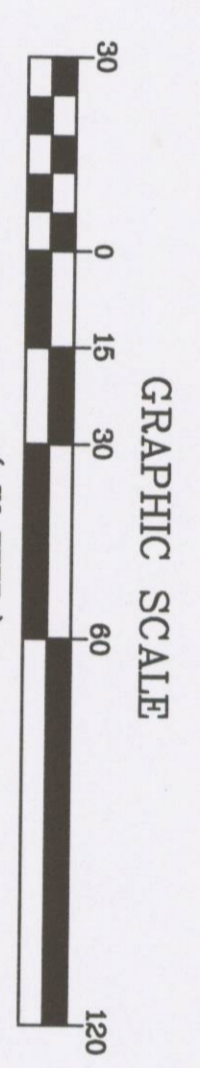
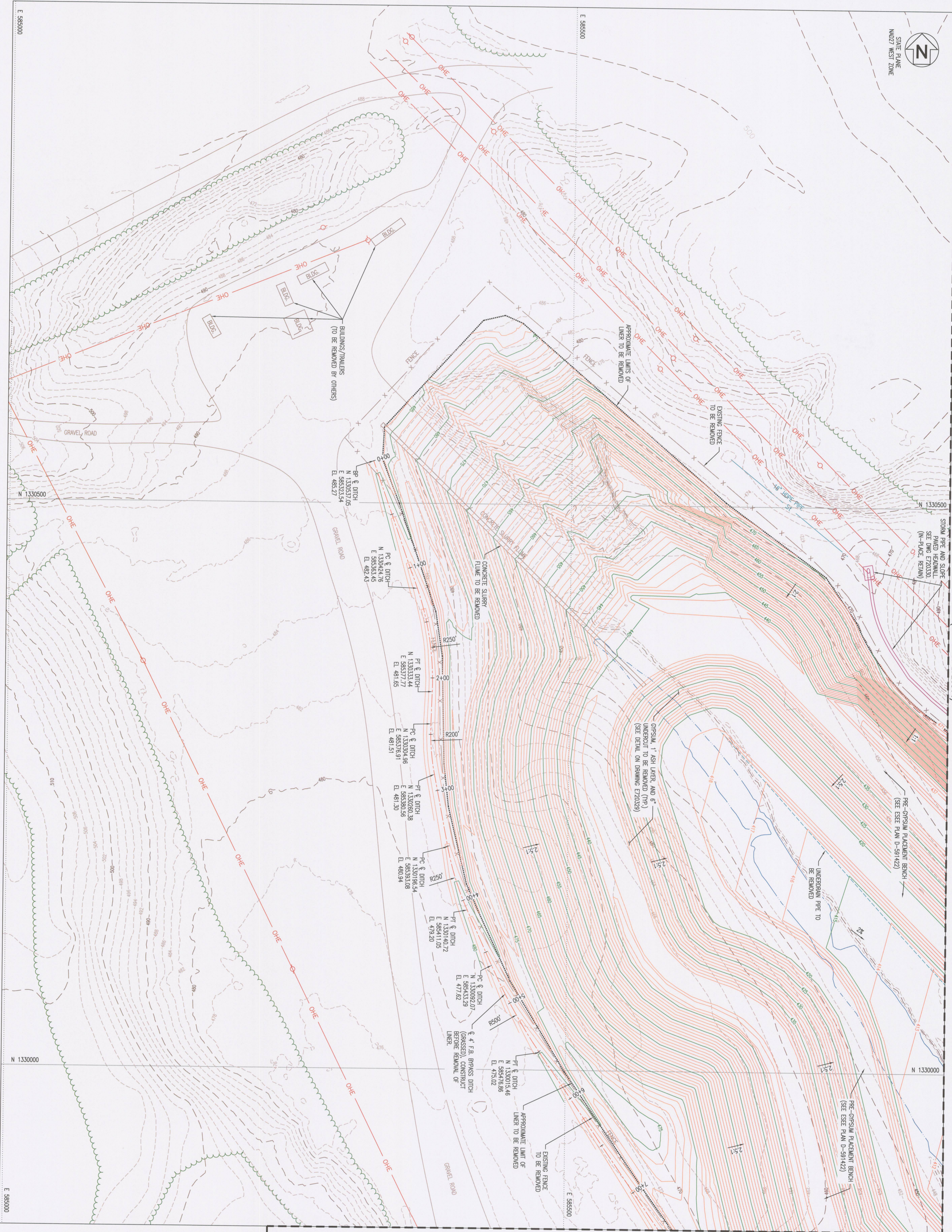
NOTES:

- 1. SEE DRAWING E720308 FOR TITLE SHEET AND DRAWING INDEX.

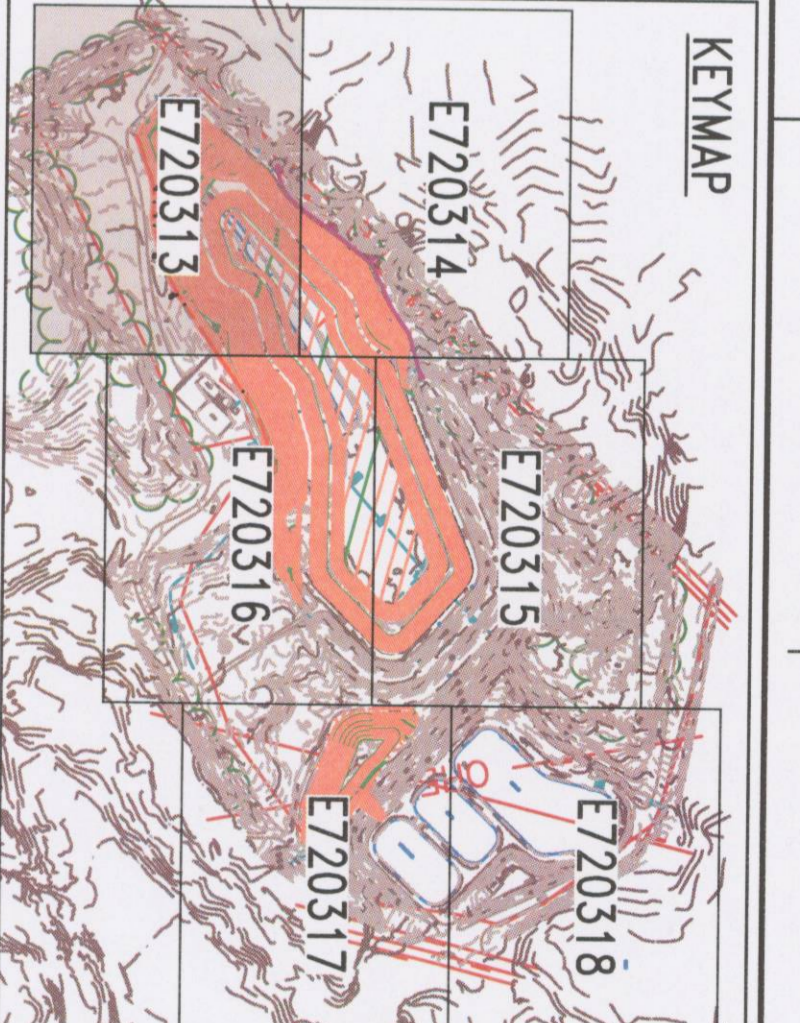
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MATCH LINE (SEE DWG. E720314)



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	



MATCH LINE (SEE DWG. E720316)

REFERENCES:
E720308-E720312
E720314-E720341
D-591422

- NOTES:
1. SEE DRAWING E720308 FOR TITLE SHEET AND DRAWING INDEX.
 2. SEE DRAWING E720309 FOR GENERAL NOTES, LEGEND AND ALL SLOPE INDICATORS SHOWN ARE APPROXIMATE AND REPRESENT THE PRE-GRS/UM/PRE-AS/ PLACEMENT SLOPES DERIVED ON DRAWING D-591422, DATED MARCH 2007.

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Southern Company Generation
Engineering and Construction Services
FOR

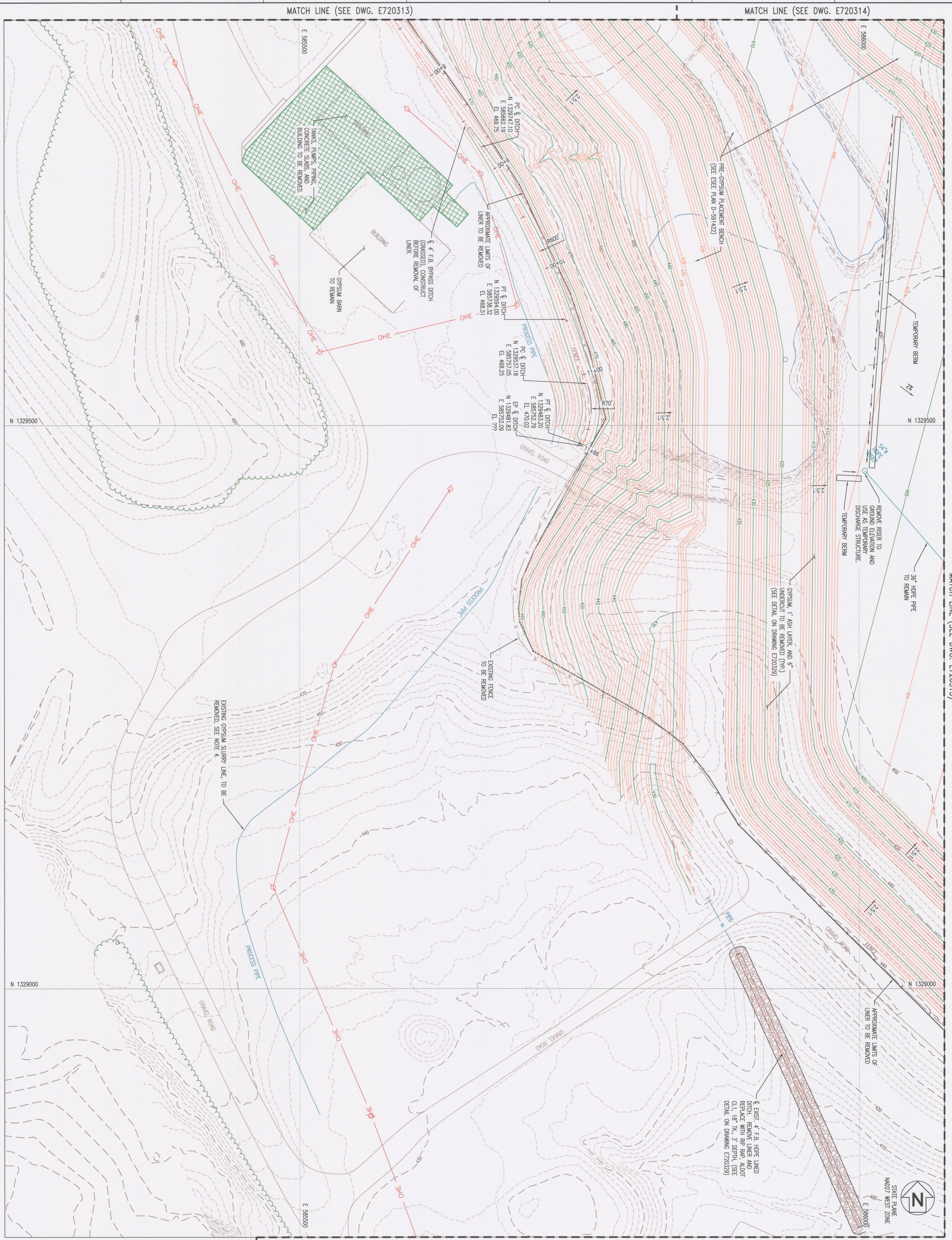
Alabama Power Company

PLANT GORGAS
SITING AND DRAINAGE PLAN
SHEET 1

DRAWING NUMBER
E720313

SHEET NUMBER
1 OF 1

SHEET STATUS
FINAL

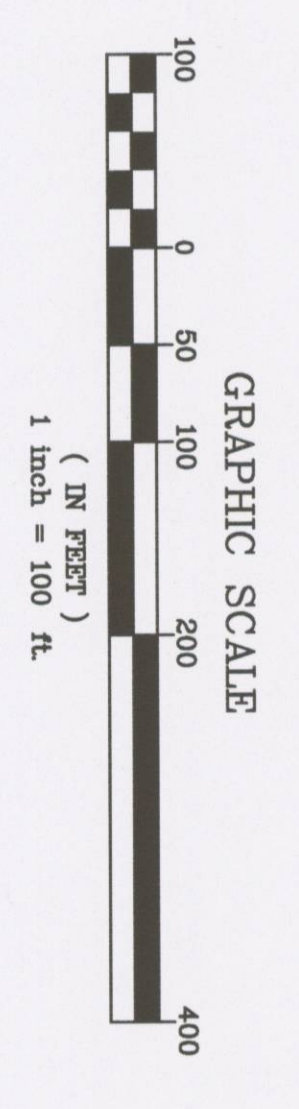
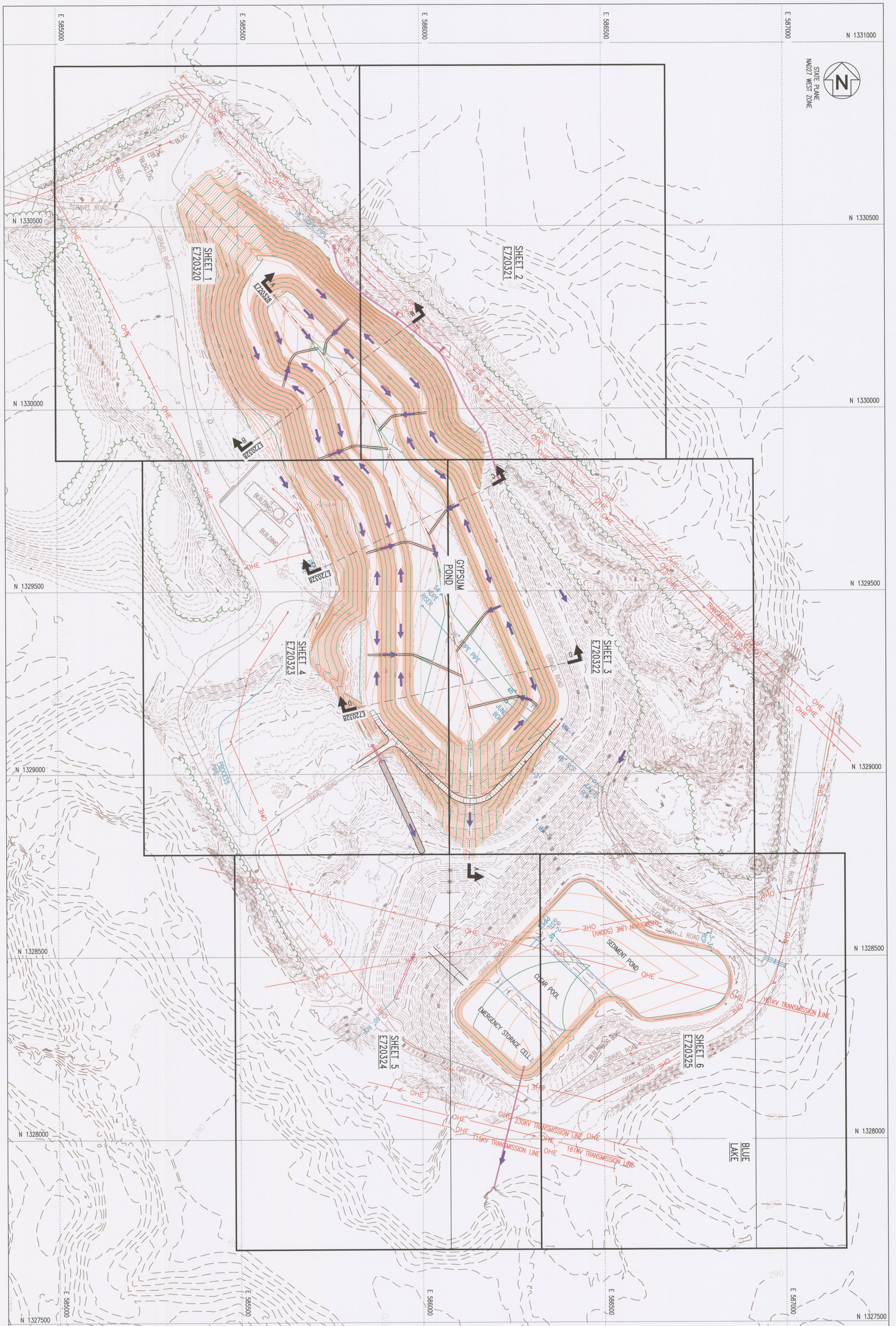


<p>NOTES:</p> <ol style="list-style-type: none"> 1. SEE DRAWING E720308 FOR TITLE SHEET AND DRAWING INDEX. 2. SEE DRAWING E720309 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS. 3. ALL SLOPE INDICATORS SHOWN ARE APPROXIMATE AND REPRESENT THE PRE-GORGAS/PRE-ASH PLACEMENT SLOPES. 4. ALL EXISTING INFRASTRUCTURE TO BE REMOVED SHALL BE REBANKED UP TO THE FIRST ISOLATION WAVES AT THE SCRIBBER. 	<p>REFERENCES:</p> <p>E720308-E720315 E720317-E720341 D-59-422</p>	<p>KEYMAP</p>	<p>STATE PLANE NAD83 MSA ZONE E 585000</p>
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REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE

<p>GRAPHIC SCALE (IN FEET) 1 inch = 30 ft.</p>	<p>PROPOSED PROJECT INFORMATION:</p> <p>CLIENT: Southern Company Generation PROJECT NO: GCR18004 ISSUED FOR CONSTRUCTION: 12/20/2018</p>
--	---

<p>Southern Company Generation Engineering and Construction Services FOR</p>	<p>Alabama Power Company</p>
<p>PLANT GORGAS SITENETWORK PHASE 1 SITE GRADING AND DRAINAGE PLAN SHEET 4</p>	<p>E720316</p>

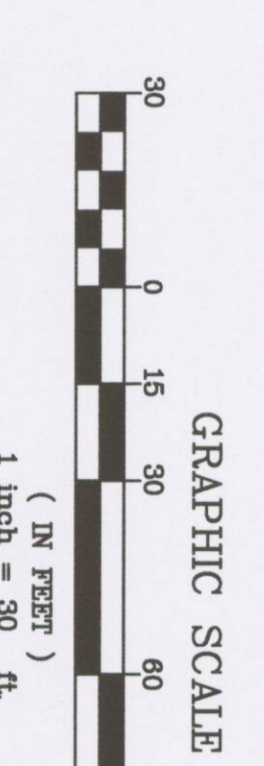
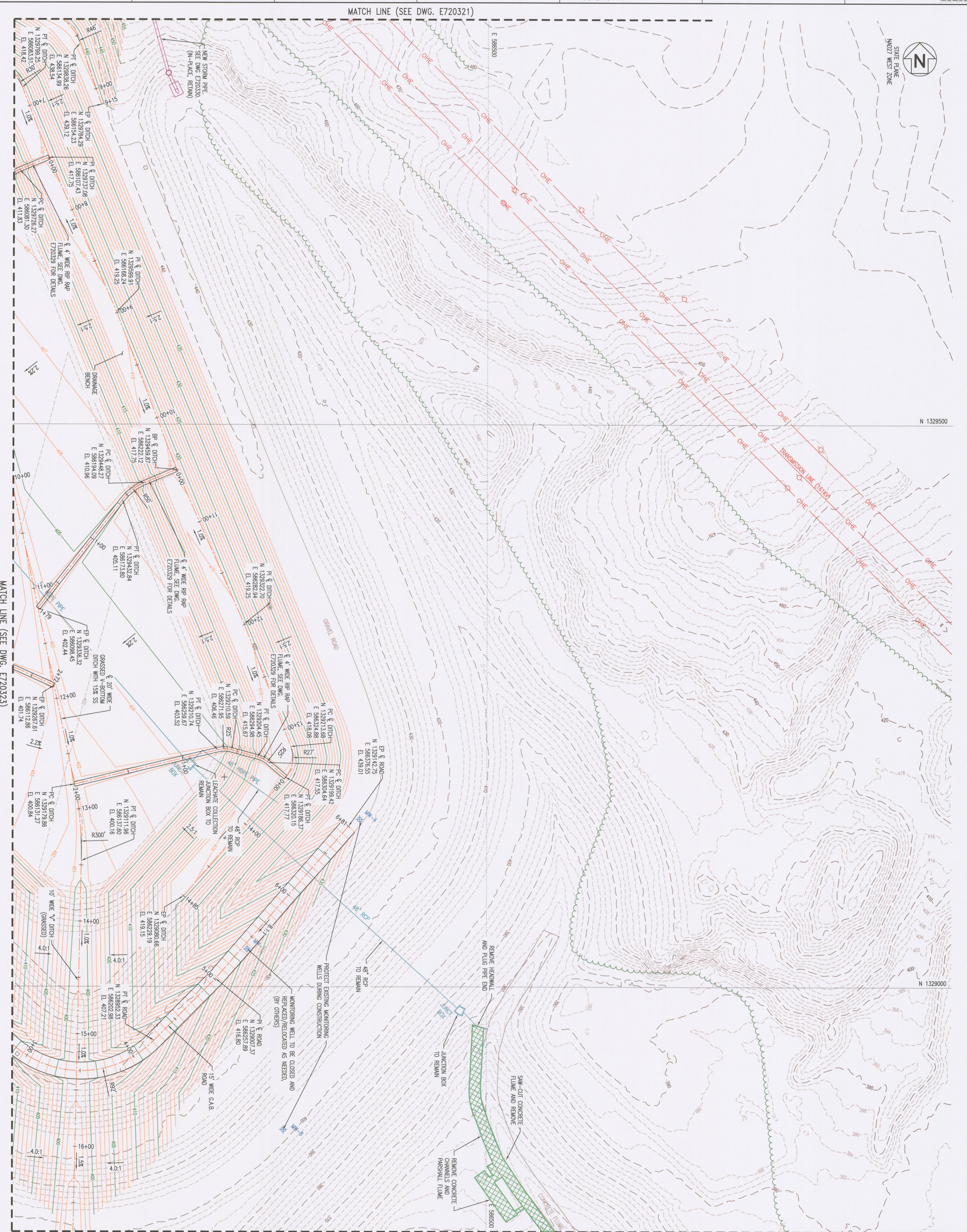


NOTES:
 1. SEE DRAWING E720308 FOR TILE SHEET AND DRAWING INDEX.
 2. SEE DRAWING E720309 FOR GENERAL NOTES, SPECIFICATIONS, LEGEND AND ABBREVIATIONS.

REVISION		REVISION		REVISION		REVISION		REVISION		REVISION		REVISION		REVISION		REVISION		REVISION	
BR	DATE	BR	DATE	BR	DATE	BR	DATE	BR	DATE	BR	DATE	BR	DATE	BR	DATE	BR	DATE	BR	DATE
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Southern Company Generation Engineering and Construction Services For Alabama Power Company PLANT GORGAS SITENWORK OVERALL PHASE 2 SITE GRADING AND DRAINAGE PLAN												Scale: 1" = 100' Drawing Number: E720319 Sheet: 1 of 1 Status: FINAL							

Approved

ANSI E 44.34



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
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CHK. APPR		CHK. APPR		CHK. APPR		CHK. APPR		CHK. APPR		CHK. APPR	
DES. APPR		DES. APPR		DES. APPR		DES. APPR		DES. APPR		DES. APPR	
DATE		DATE		DATE		DATE		DATE		DATE	

NOTES:

- SEE DRAWING E720328 FOR TITLE SHEET AND DRAWING INDEX.
- SEE DRAWING E720329 FOR GENERAL NOTES, SPECIFICATIONS, LEGEND AND ABBREVIATIONS.

REFERENCES:

E720328-E720331
E720332-E720341

KEYMAP

PROJECT INFORMATION:

Client: Southern Company Generation Engineering and Construction Services
 Project: Alabama Power Company
 Project ID: GPRM18004
 Project Name: GPRM18004
 Issue: ISSUED FOR CONSTRUCTION
 Date: 7/22/2018

SCALE: 1"=30'

PHASE 2 SITE GRADING AND DRAINAGE PLAN

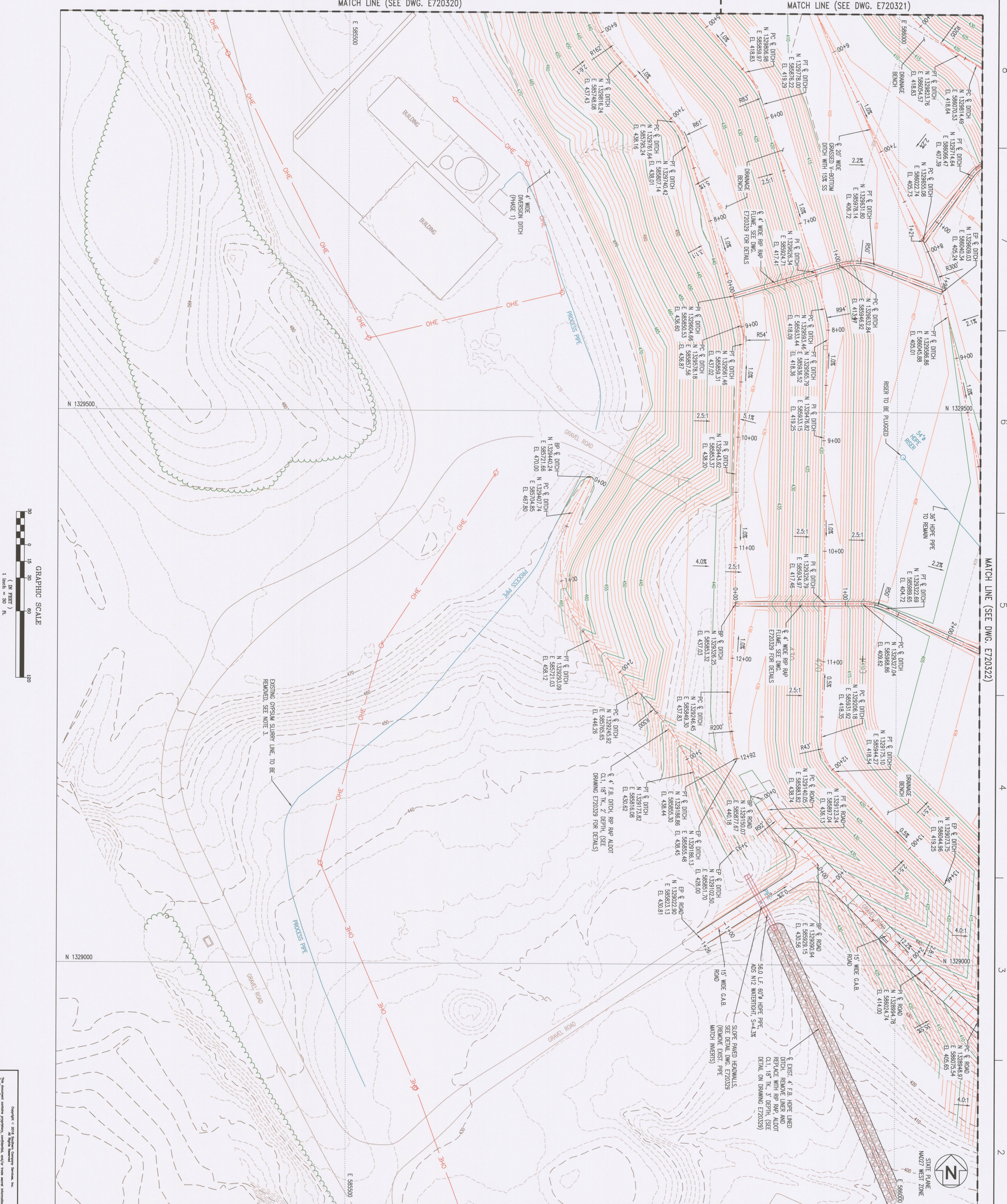
SHEET 3 OF 3

E720322

1 CONTROL SHEET
1 FINAL SHEET

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE

WMO APP-2017-002	THH	CRB	XXX	XXX	XXX	SSS
GVSUM POND CLOSURE						
PROJECT TO GOR-18004						
ISSUED FOR CONSTRUCTION						
DATE 12/20/2018						



NOTES:

- SEE DRAWING E720328 FOR TITLE SHEET AND DRAWING INDEX.
- SEE DRAWING E720329 FOR GENERAL NOTES, LEGEND AND SCHEDULES TO BE REMOVED UP TO THE FIRST SOLATION VALVES AT THE SCRIBBER.

REFERENCES:

E720308-E720322
 E720324-E720341

KEYMAP

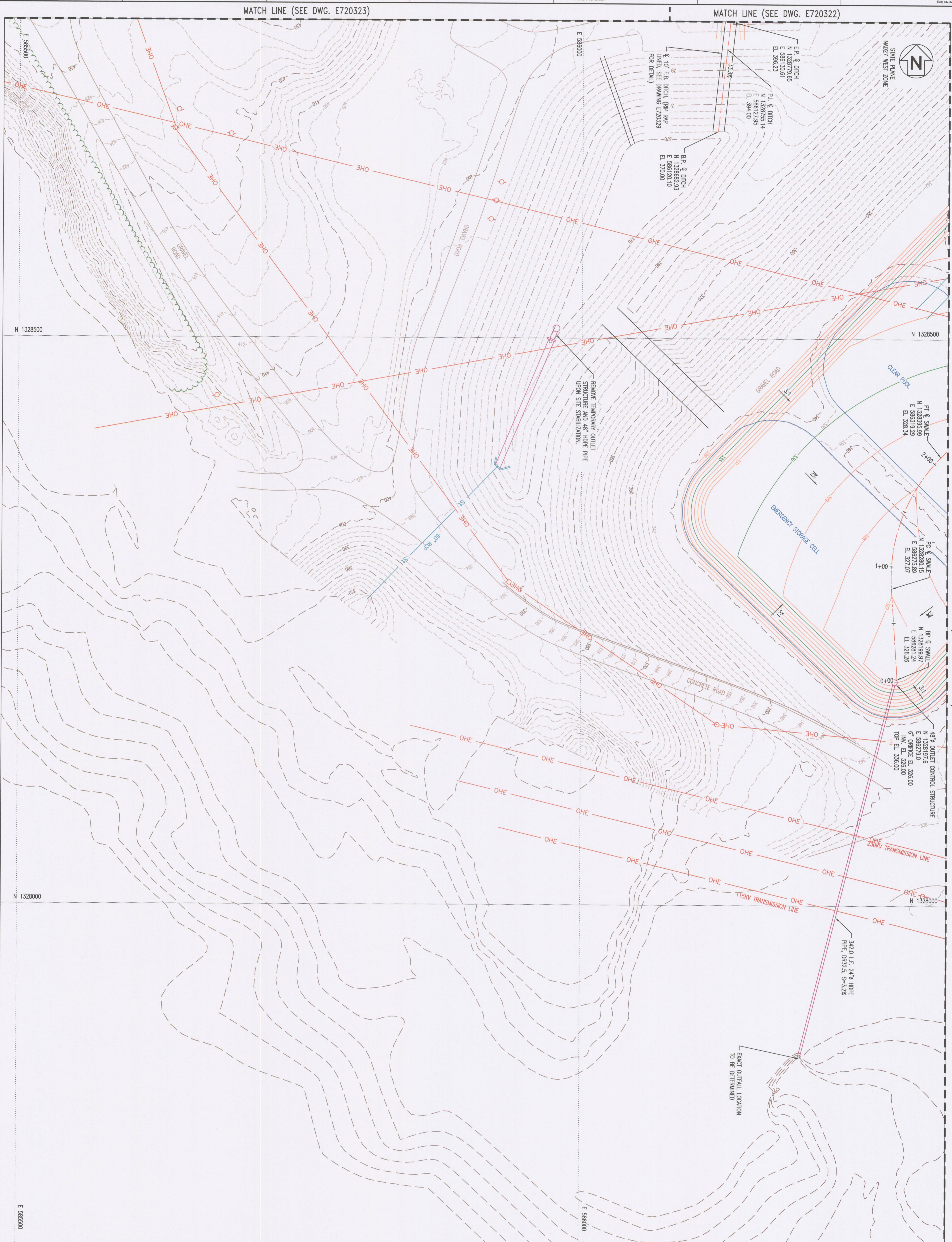
Engineering and Construction Services
Alabama Power Company

PLANT GORGAS
SITING AND DRAINAGE PLAN
SHEET 4

Scale: 1"=30'

Sheet: 1 of 1
 Final: 0

8
7
6
5
4
3
2
1

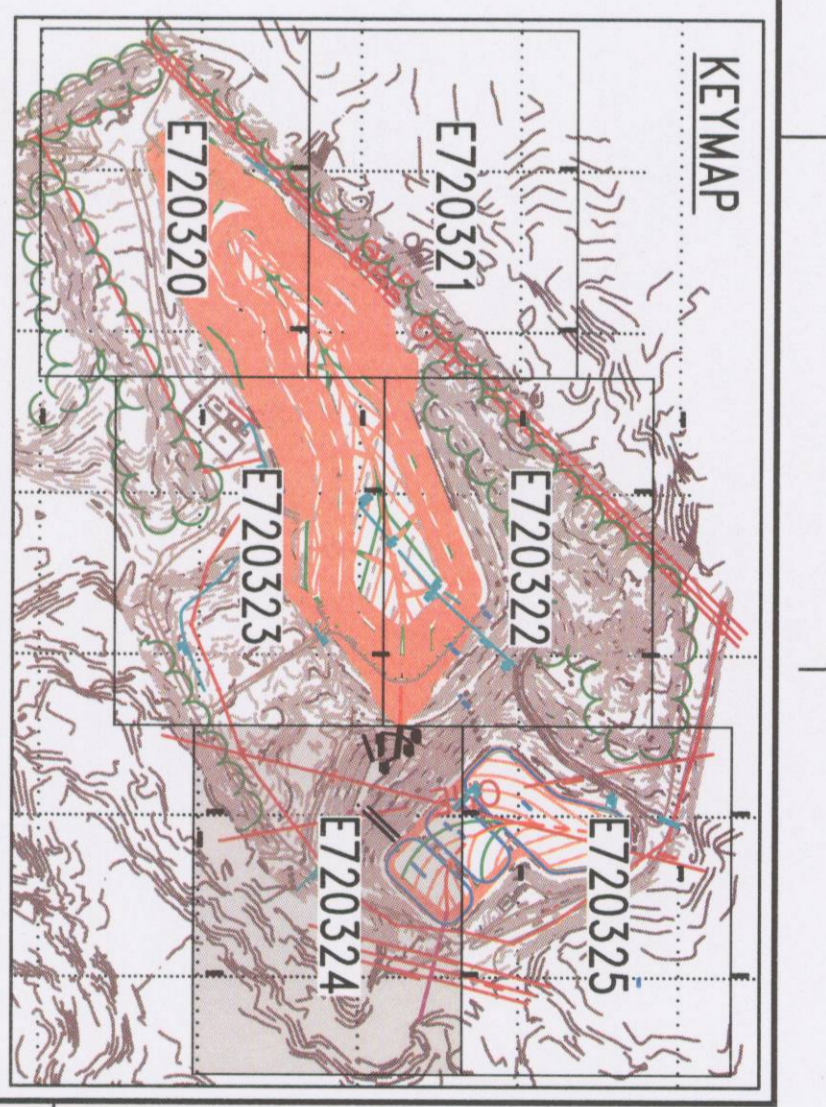
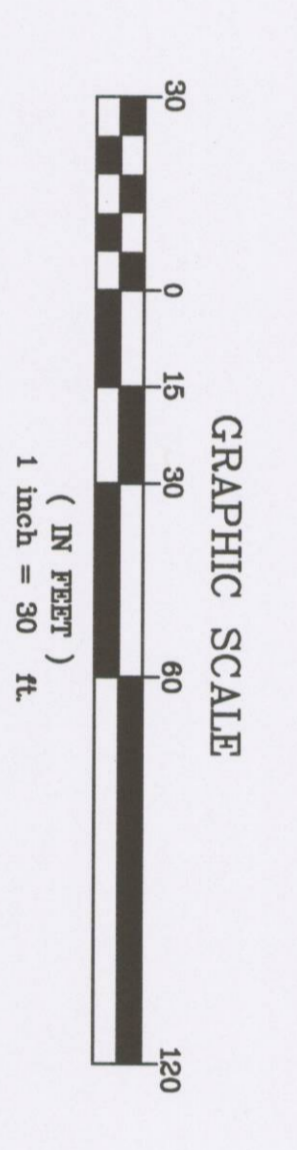


MATCH LINE (SEE DWG. E720325)



MATCH LINE (SEE DWG. E720322)

MATCH LINE (SEE DWG. E720323)



REFERENCES:
E720308-E720323
E720325-E720341

NOTES:
1. SEE DRAWING E720308 FOR TITLE SHEET AND DRAWING INDEX.
2. SEE DRAWING E720308 FOR GENERAL NOTES, SPECIFICATIONS, LEGEND AND ABBREVIATIONS.

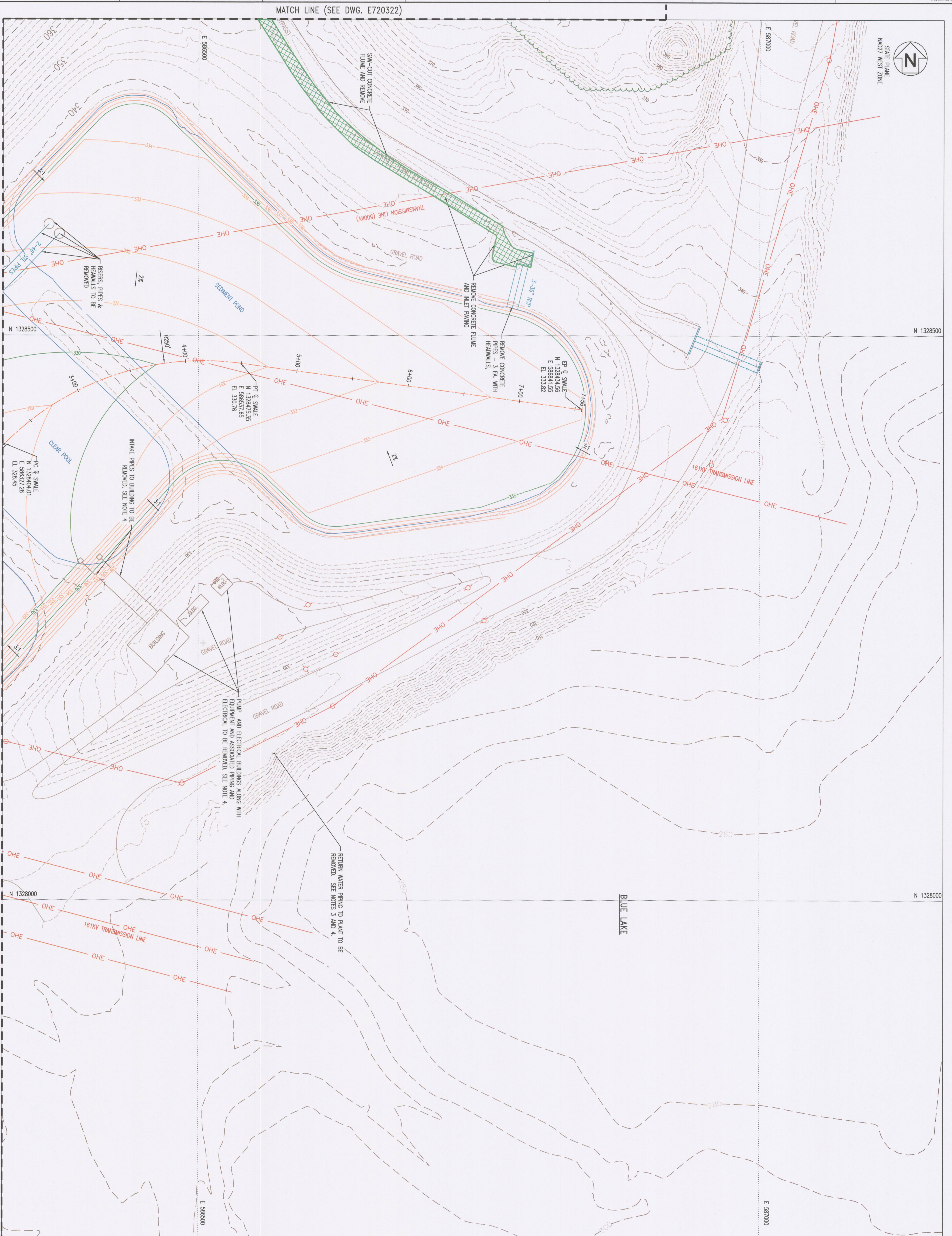
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PROJECT ID: GOR18004 PROJECT NAME: GRYSUM POND CLOSURE SHEET NO.: E720324 SHEET OF: 5	DRAWN BY: JTB CHECKED BY: CRJ DATE: 12/20/2018	ISSUED FOR CONSTRUCTION DATE: 12/20/2018	SOUTHERN COMPANY GENERATION ENGINEERING AND CONSTRUCTION SERVICES FOR ALABAMA POWER COMPANY
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PROJECT: MWO-APCS0072 PROJECT ID: GOR18004 PROJECT NAME: GRYSUM POND CLOSURE SHEET NO.: E720324 SHEET OF: 5	SCALE: 1"=30' DRAWING NUMBER: E720324 SHEET COUNT: 5 SHEET NO.: 5
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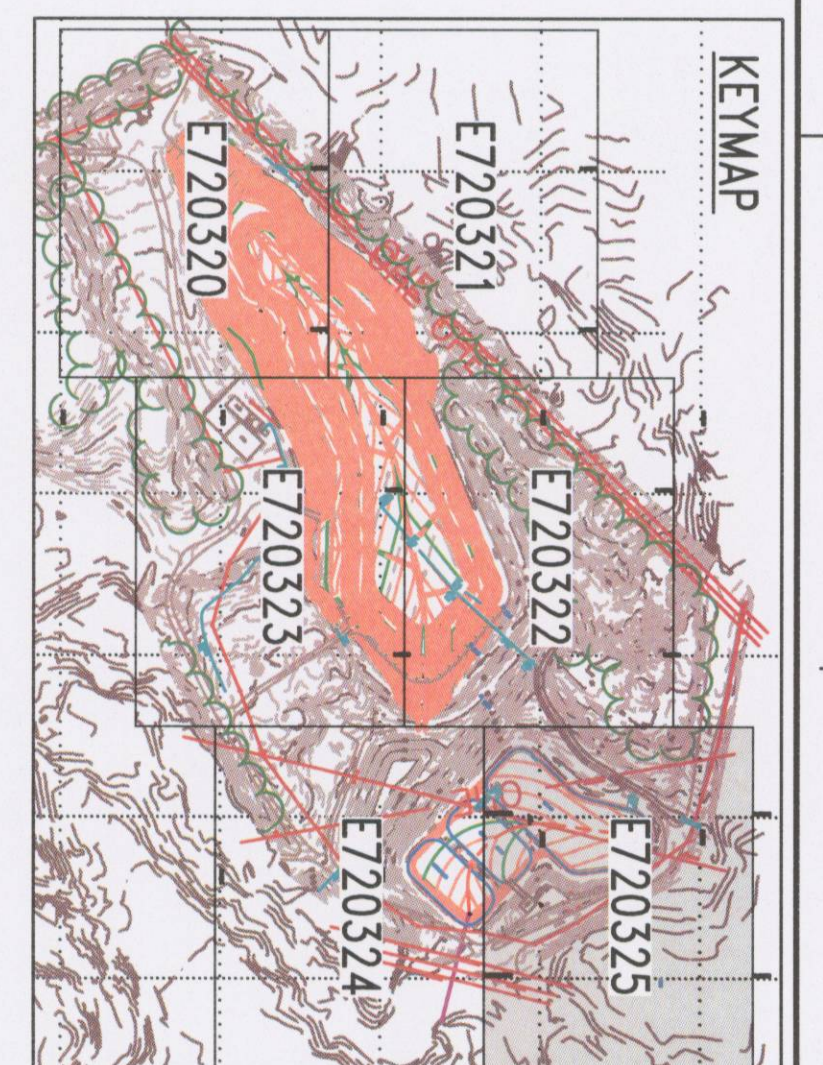
Approved

ANSI E-44.34



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
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FIN		FIN		FIN		FIN		FIN		FIN		FIN		FIN	
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PROJECT NO.	120202018	ISSUED FOR CONSTRUCTION
PROJECT NAME	GRASSUM POND CLOSURE	
PROJECT LOCATION	HUNG ASPEN/0702	
PROJECT CLIENT	Alabama Power Company	
PROJECT ENGINEER	Southern Company Generation Engineering and Construction Services For	
PROJECT TITLE	PLANT GORGAS SITEWORK SCHEDULE AND DRAINAGE PLAN SHEET 6	
PROJECT SCALE	1"=30'	
PROJECT SHEET NO.	E720325	
PROJECT SHEET TOTAL	1	
PROJECT SHEET STATUS	FINAL	
PROJECT SHEET DATE		
PROJECT SHEET BY		
PROJECT SHEET CHECKED BY		
PROJECT SHEET DESIGNED BY		
PROJECT SHEET DRAWN BY		
PROJECT SHEET APPROVED BY		
PROJECT SHEET DATE		



- NOTES:**
1. SEE DRAWING E720309 FOR TITLE SHEET AND DRAWING INDEX.
 2. SEE DRAWING E720309 FOR GENERAL NOTES, SPECIFICATIONS, LEGEND AND ABBREVIATIONS.
 3. ALL ABOVE GROUND PIPING TO AND FROM THE PLANT SCRUBBER TO BE REMOVED UP TO THE FIRST ISOLATION VALVES AT THE SCRUBBER.
 4. RETURN WATER PUMP SYSTEM TO REMAIN IN SERVICE UNTIL SUCH TIME WHEN GRASSUM POND PERMIETER Dike HAS BEEN BREACHED AND STORMWATER ALLOWED TO DISCHARGE TO THE SEDIMENT/RETENTION POND. AT THAT TIME REMOVAL OF THE BUILDINGS, TANKS, ELECTRICAL, ETC. CAN BEGIN.

REFERENCES:

E720309 - E720324
 E720326 - E720341

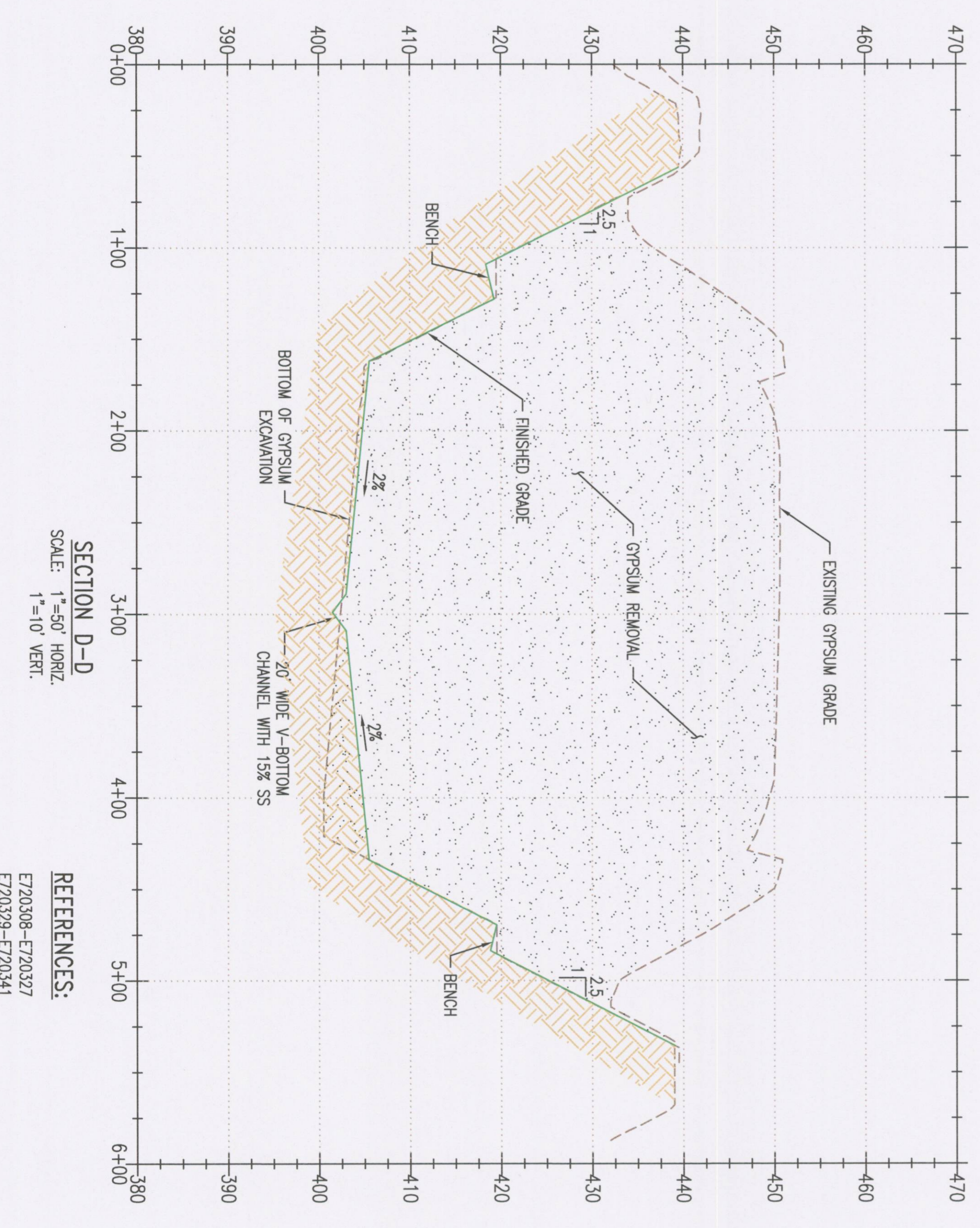
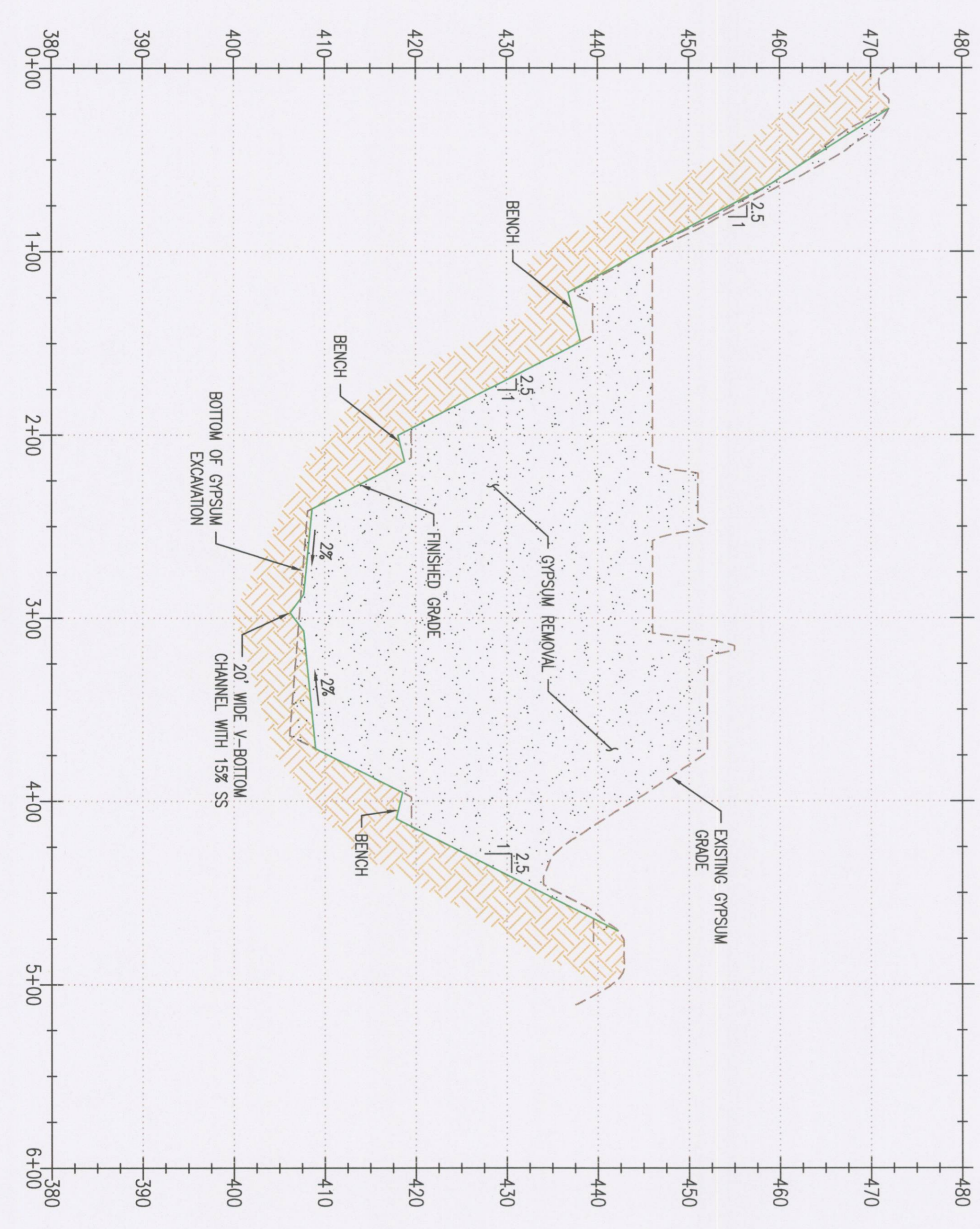
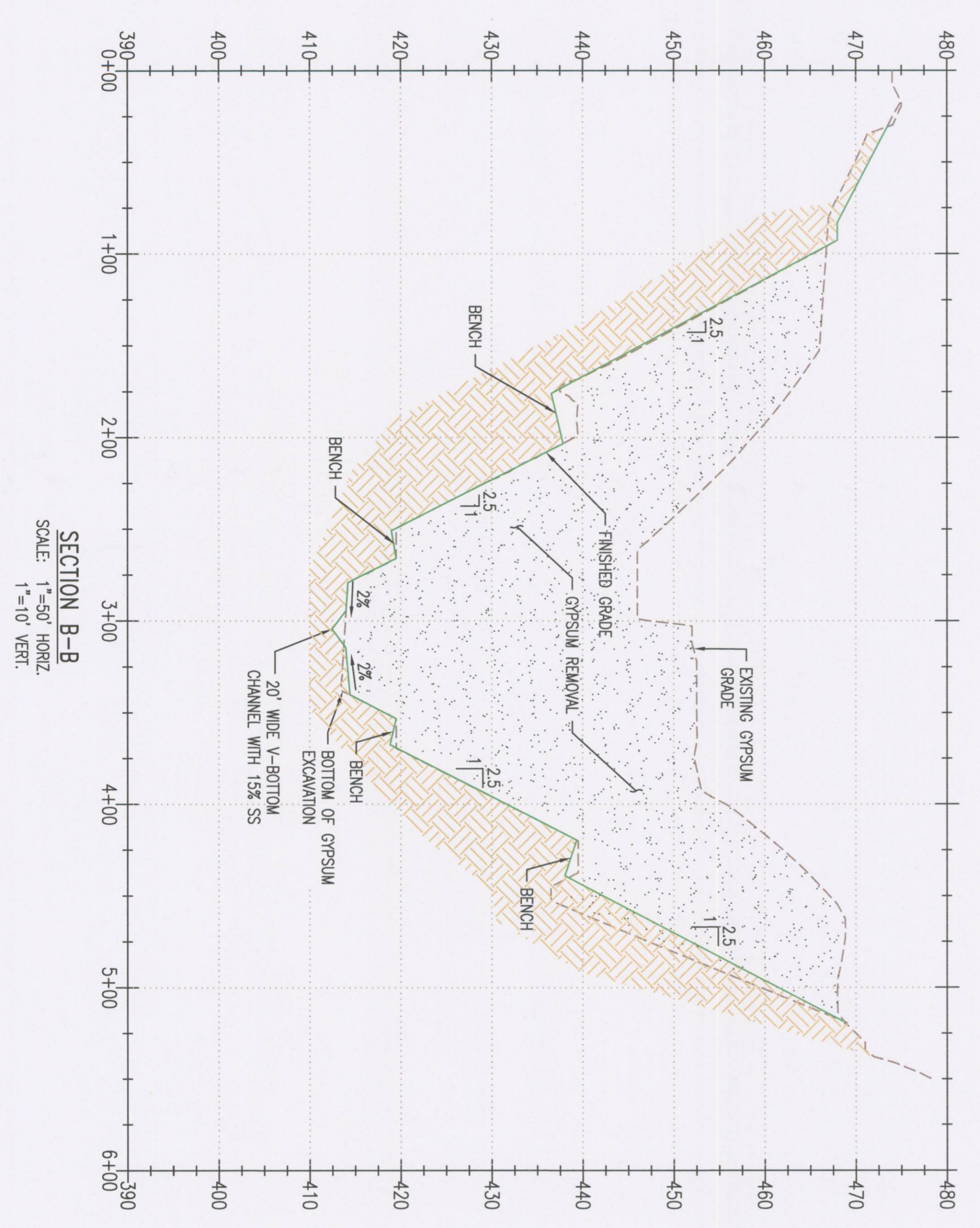
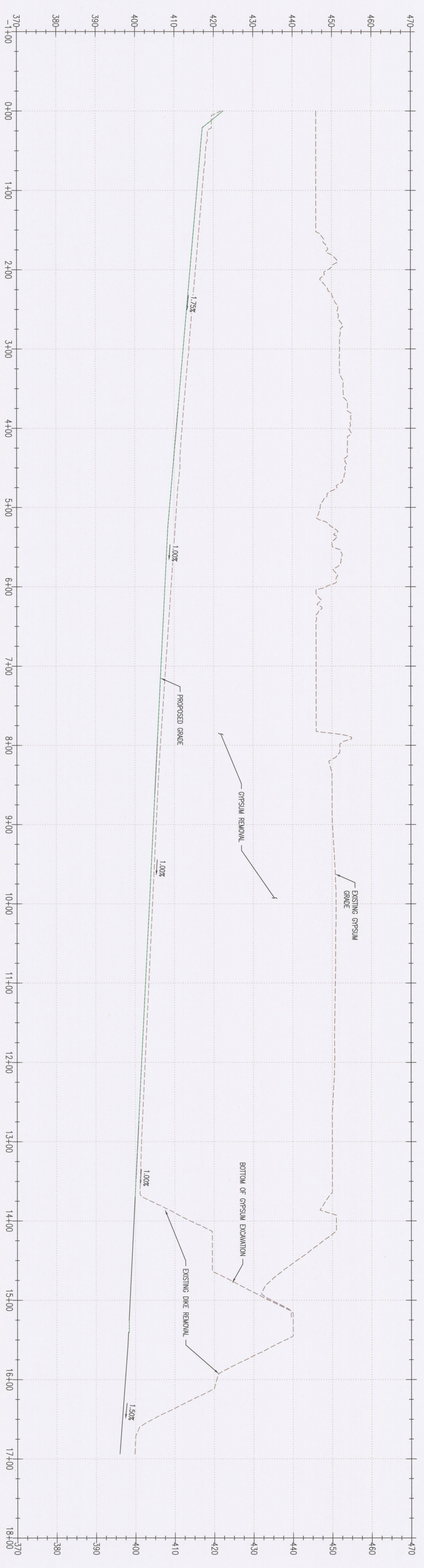
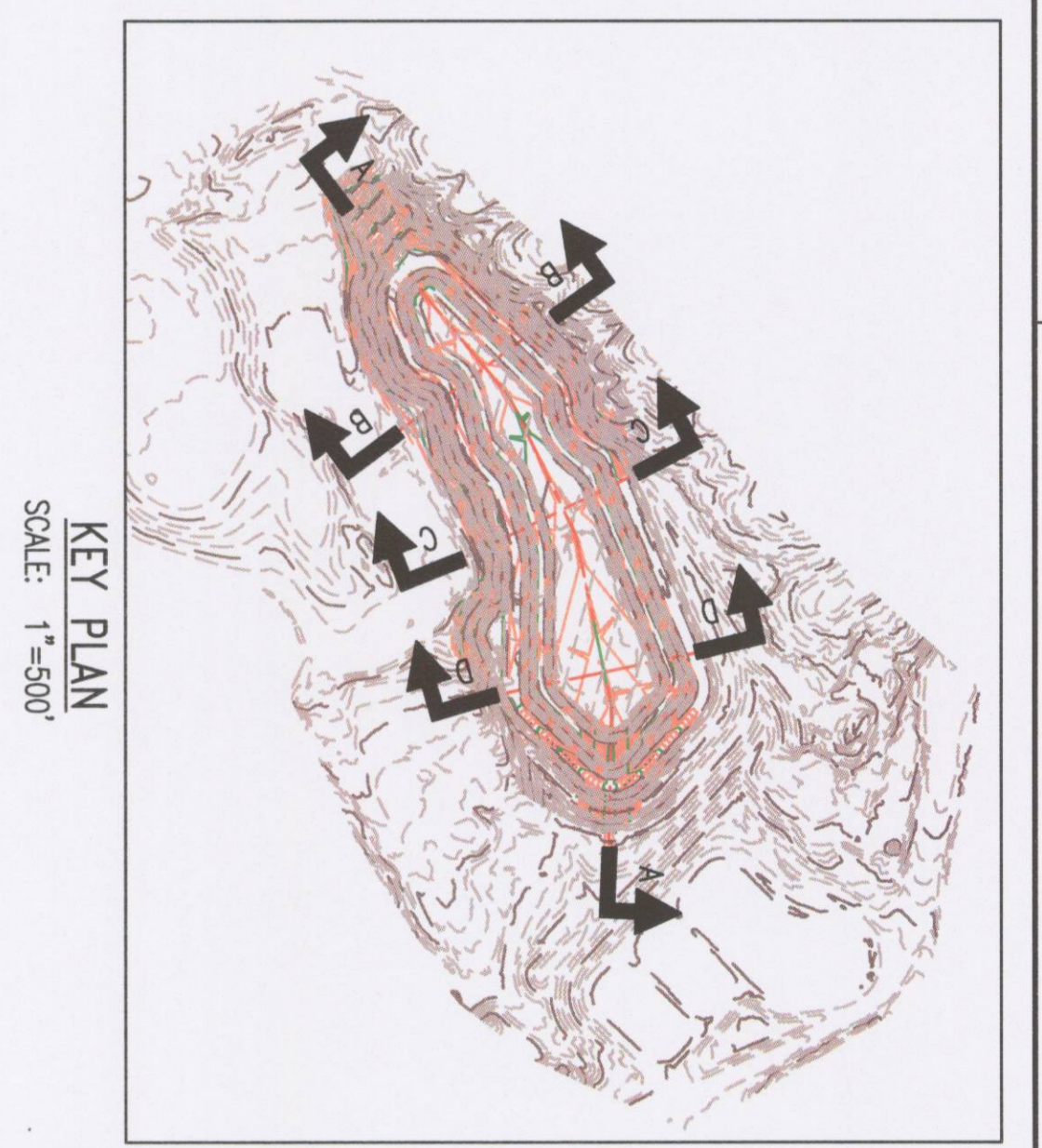
Southern Company Generation Engineering and Construction Services For

Alabama Power Company

PLANT GORGAS SITEWORK SCHEDULE AND DRAINAGE PLAN SHEET 6

PHASE 2 SITE GRADING AND DRAINAGE PLAN SHEET 6

E720325



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
BR	CR/DO	DA/EA	LA/ET	MR	CR/DO	DA/EA	LA/ET	MR	CR/DO	DA/EA	LA/ET	MR	CR/DO
0	12/20/2018	0		0		0		0		0		0	

ISSUED FOR CONSTRUCTION

PROJECT: D. GORRIS
ISSUED: 12/20/2018

Alabama Power Company
Engineering and Construction Services
FOR
Southern Company Generation
Plant GORGAS
SITING
CLOSURE SECTIONS AND DETAILS
SHEET 1

DATE: 12/20/2018

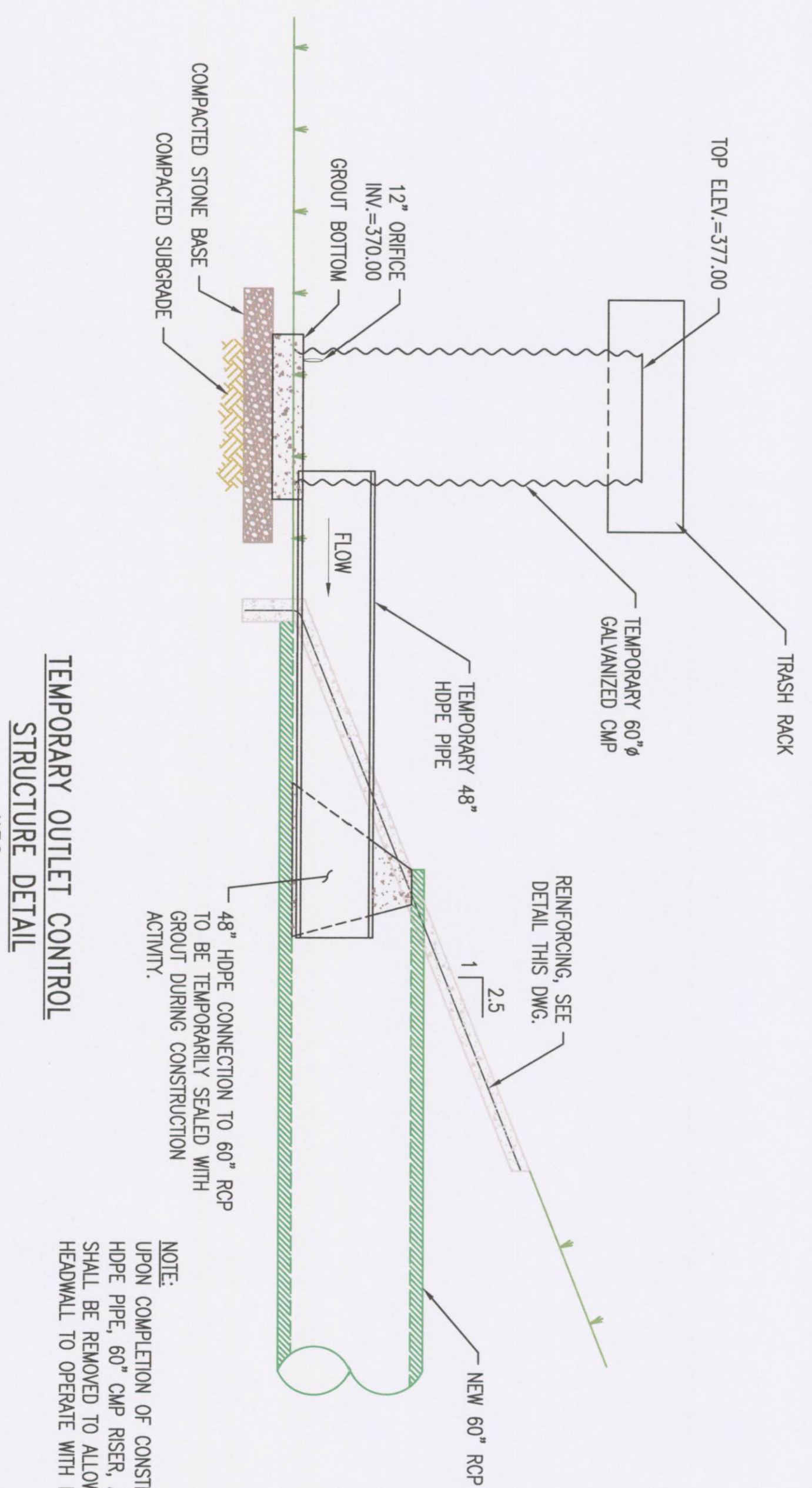
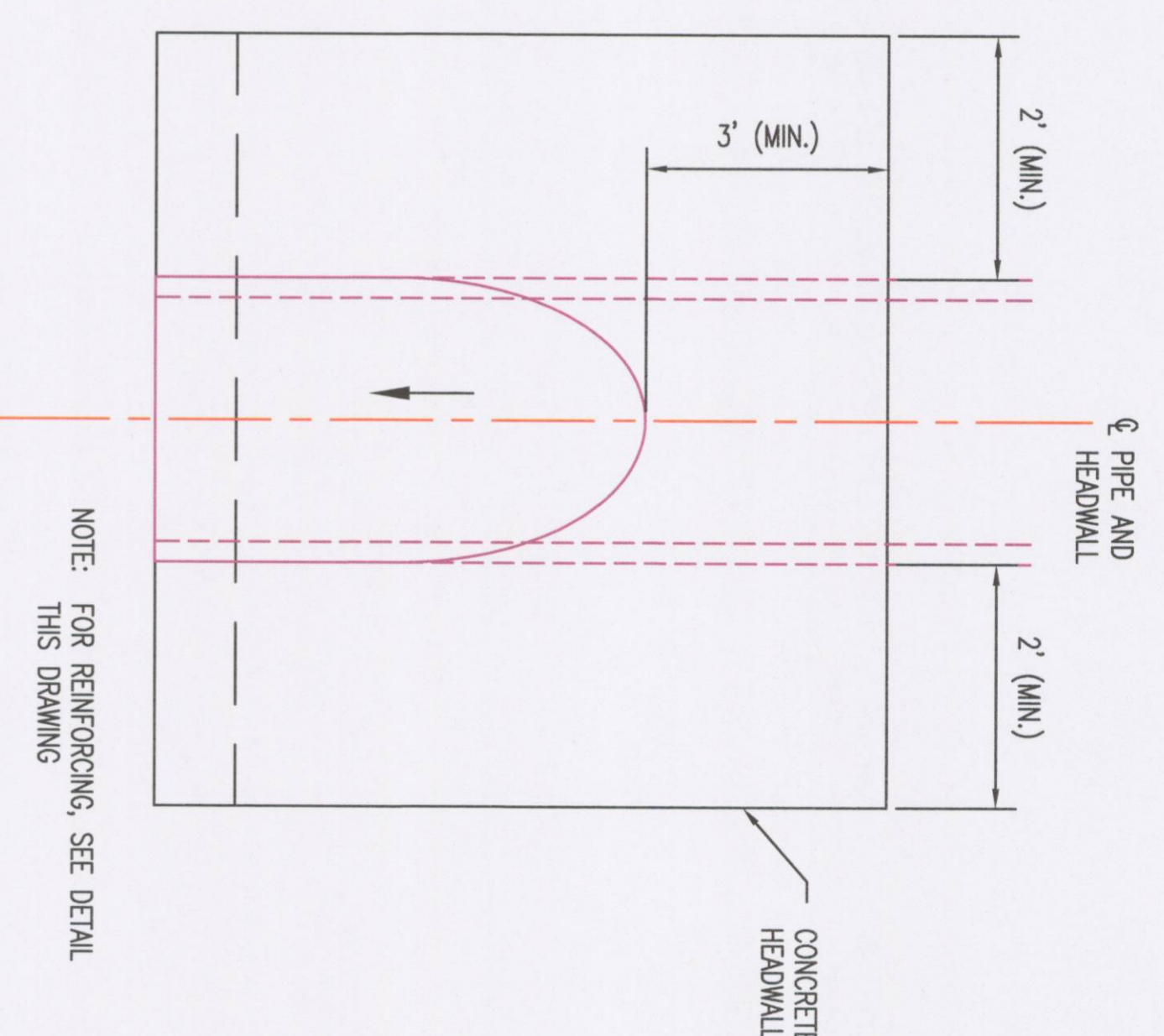
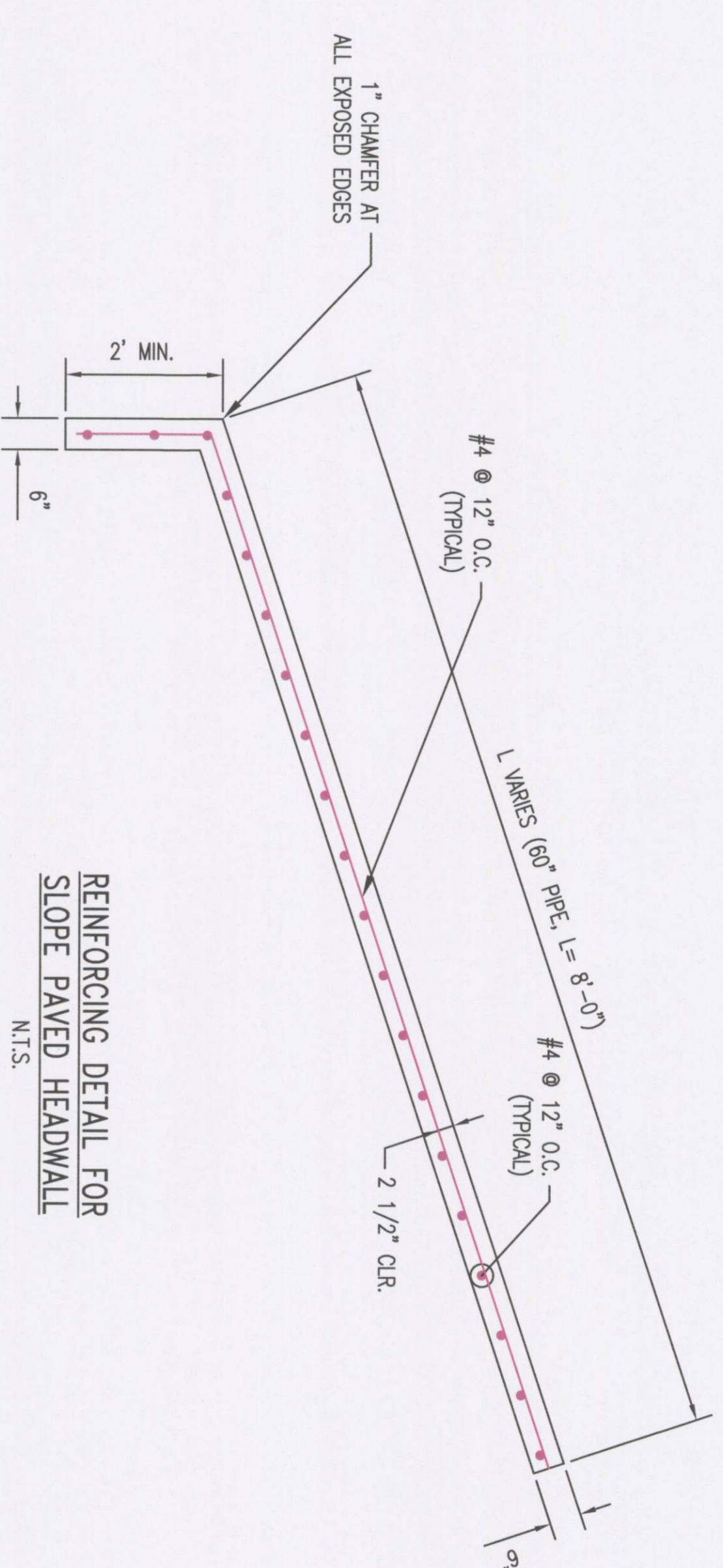
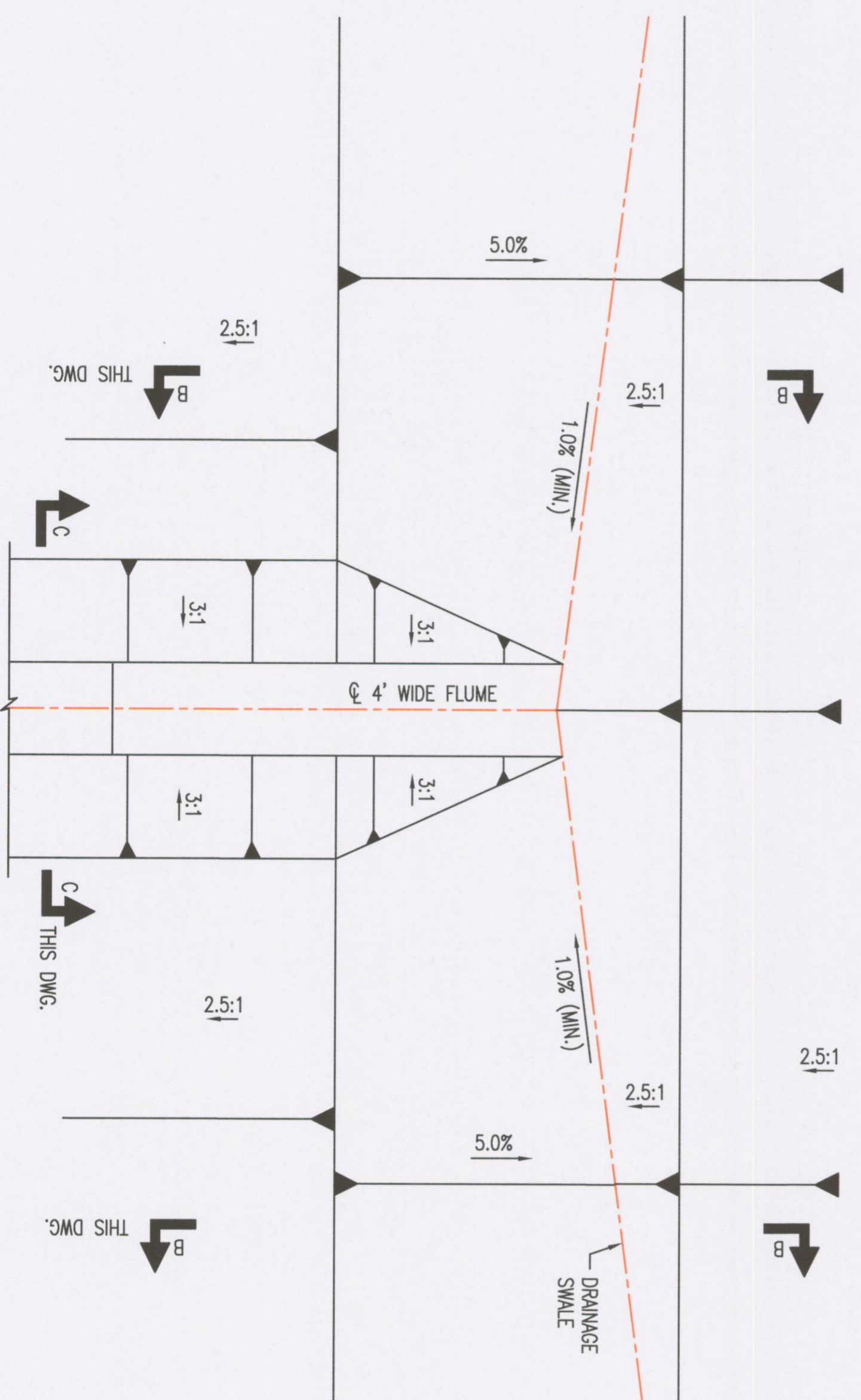
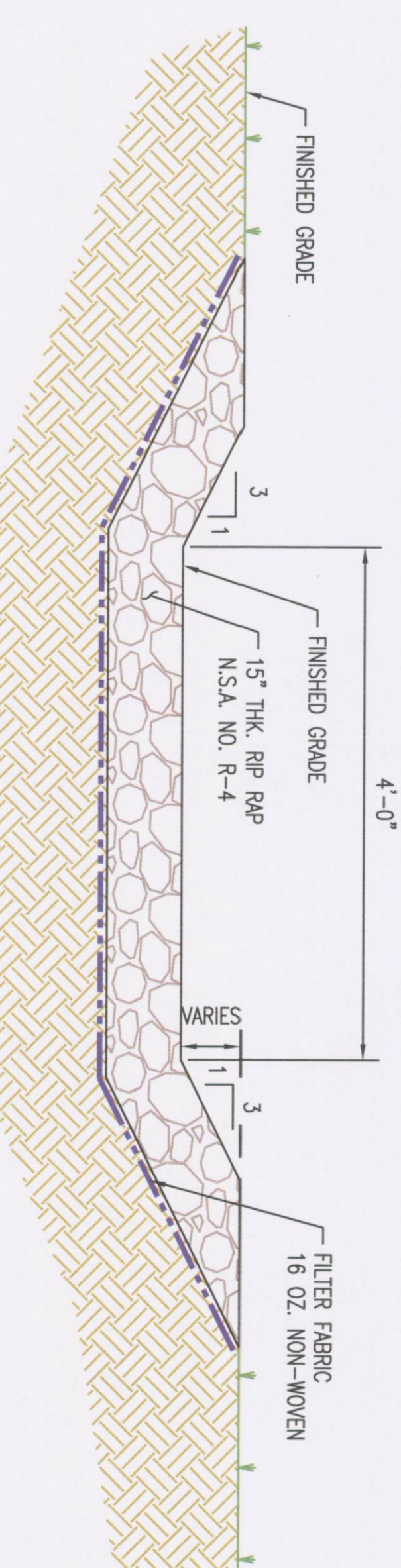
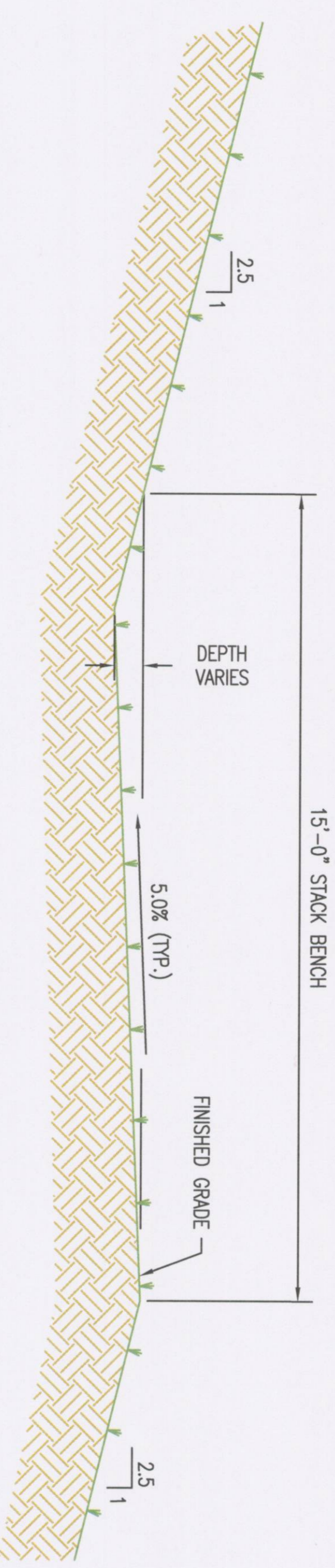
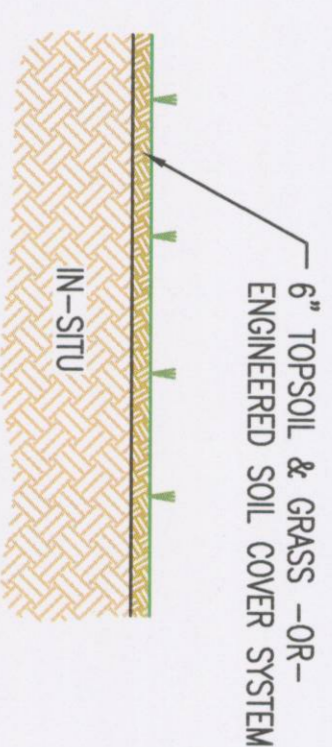
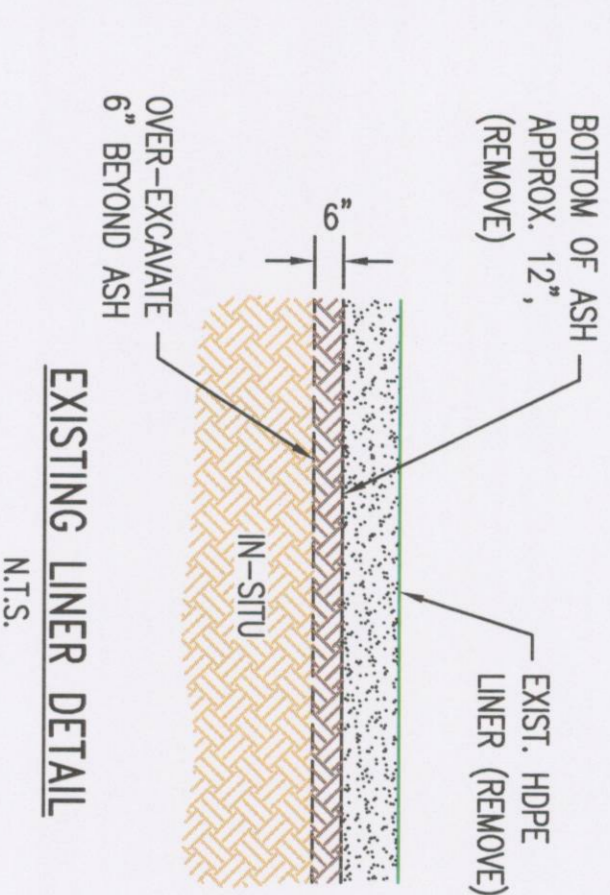
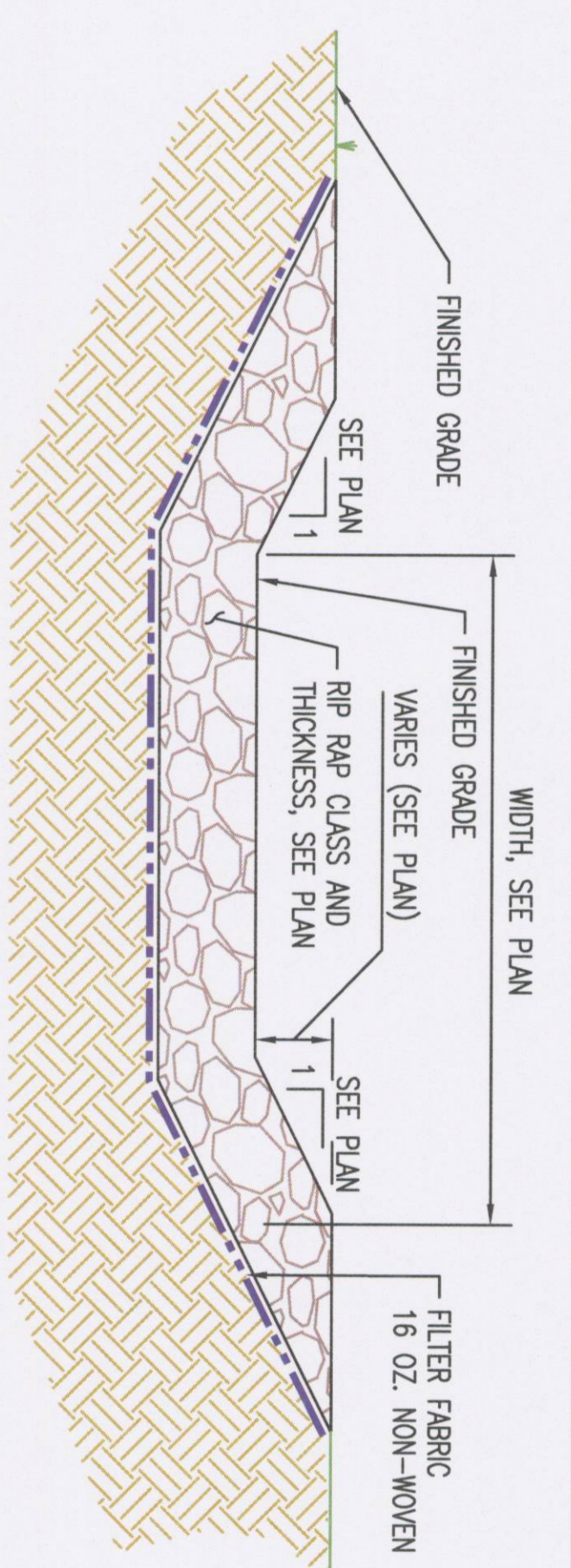
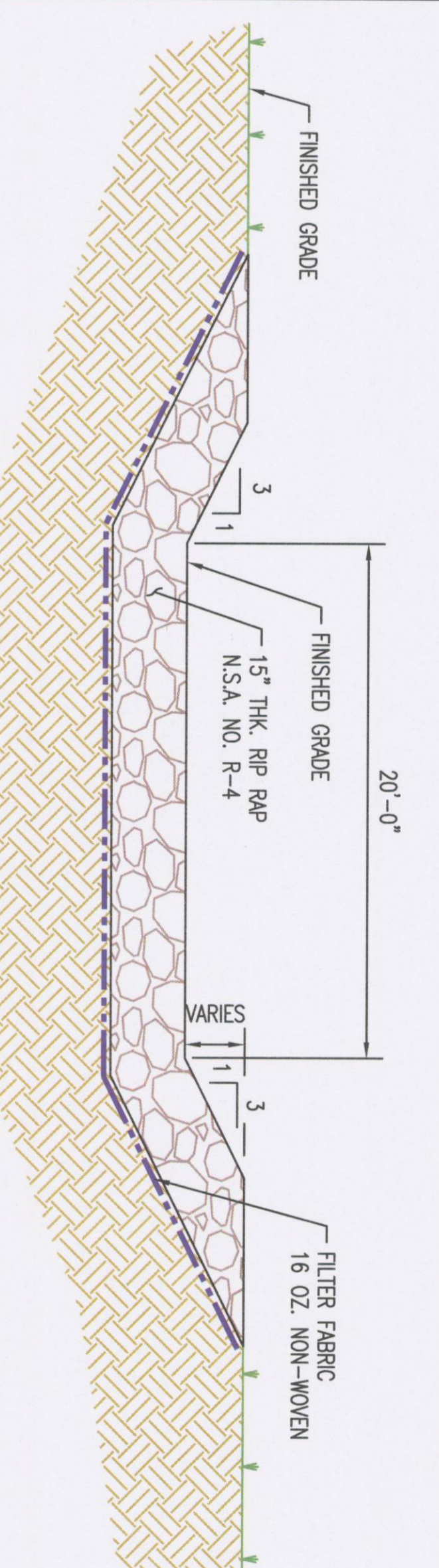
SCALE: AS NOTED

PROJECT NUMBER: E720328

SHEET: 1 OF 1

STATUS: FINAL

Approved



NOTE:
UPON COMPLETION OF CONSTRUCTION ACTIVITY, 48" HPE PIPE, 60" CAP RESES, AND GROUT PUD SHALL BE REMOVED TO ALLOW 60" RCP AND HEADWALL TO OPERATE WITH NO RESTRICTION.

REFERENCES:
E720308-E720328
E720330-E720341

TYPICAL DITCHES & FLUMES ALONG
PRE-GYPSUM PLACEMENT ROAD - PLAN VIEW
N.T.S.
(E720320 THRU E720323)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
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CHK'D		CHK'D		CHK'D		CHK'D		CHK'D		CHK'D	
DATE		DATE		DATE		DATE		DATE		DATE	

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ISSUED FOR CONSTRUCTION

12/20/2018

WMO APC59072
PROJECT ID: GOR18004
GYPSSUM POND CLOSURE

Alabama Power Company
Engineering and Construction Services

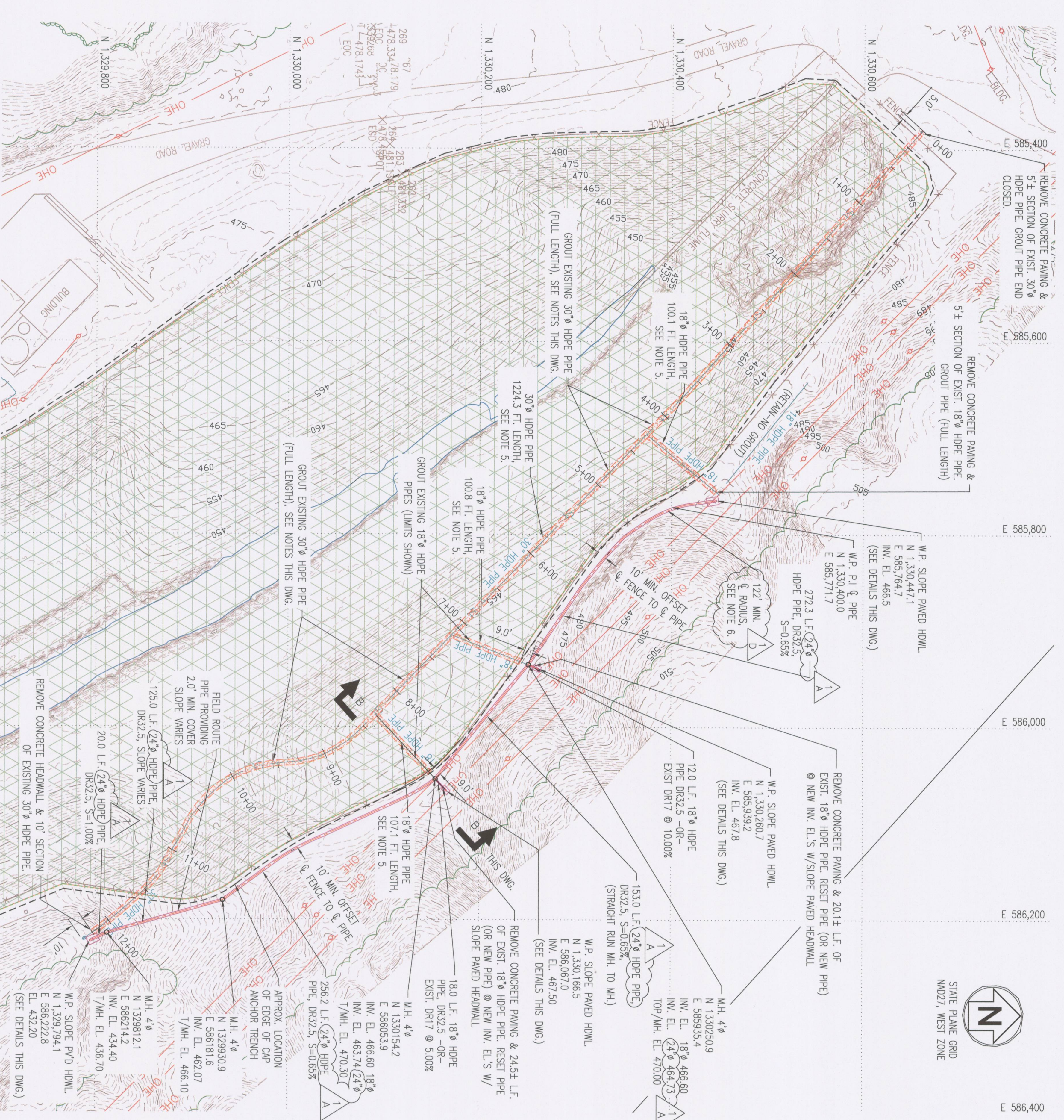
PLANT GORGAS
STRENGTH
CLOSURE SECTIONS AND DETAILS
SHEET 2

E720329

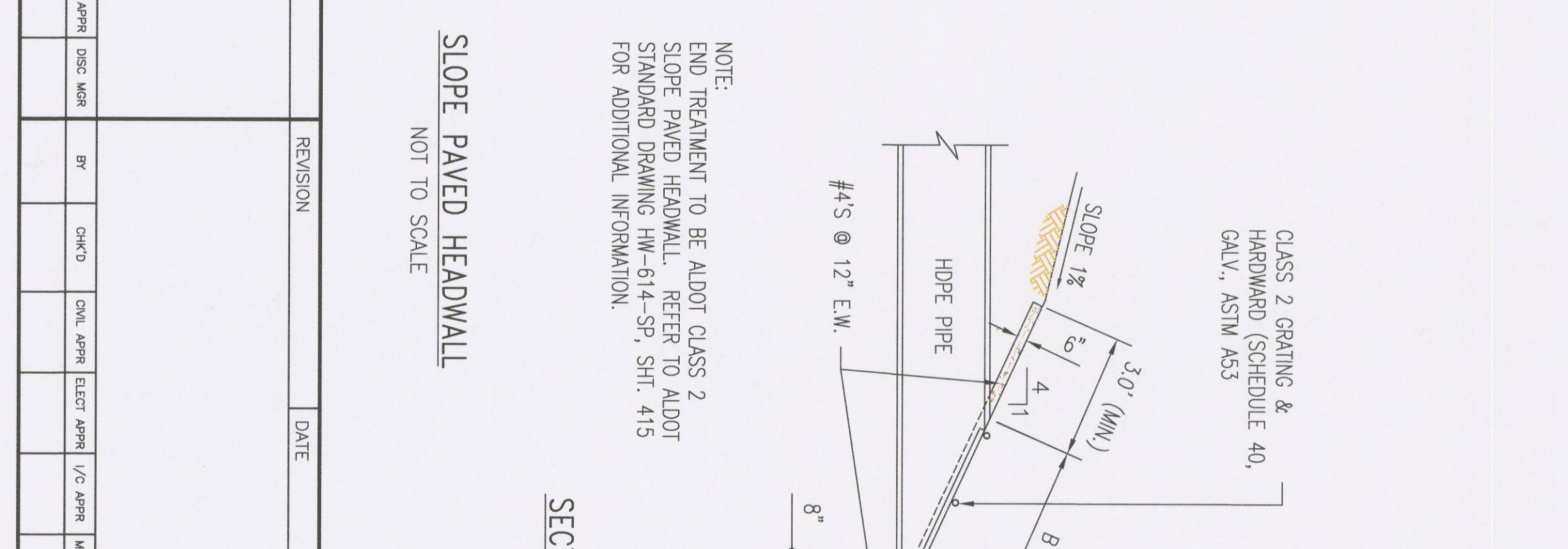
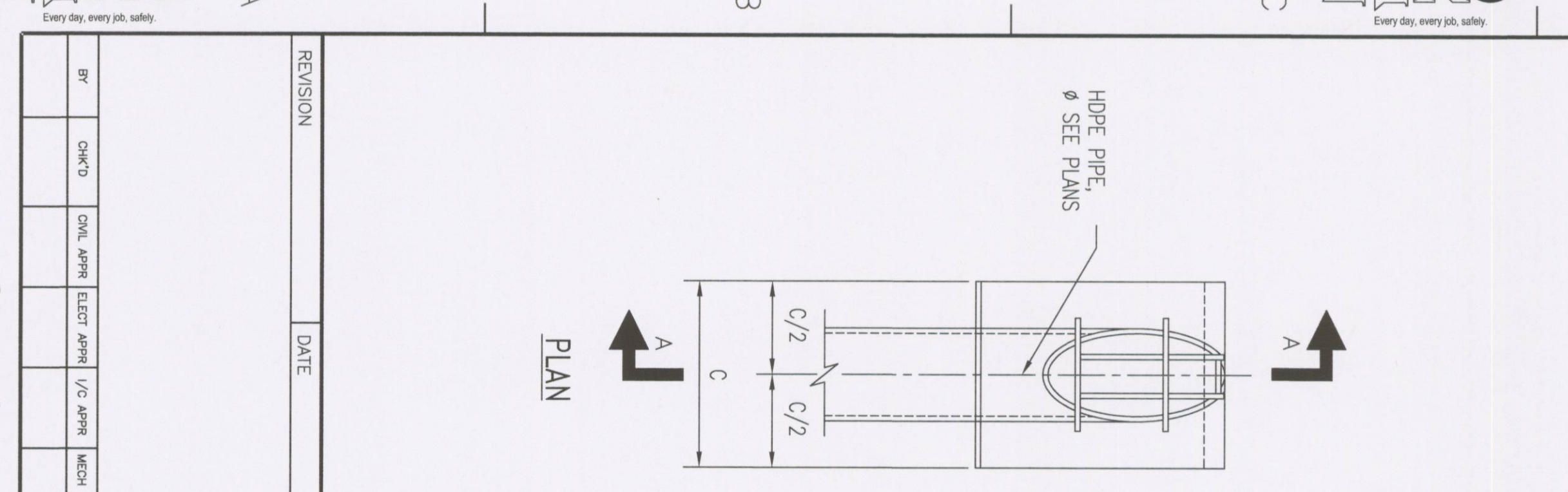
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SHEET 1 OF 1

FINAL 0

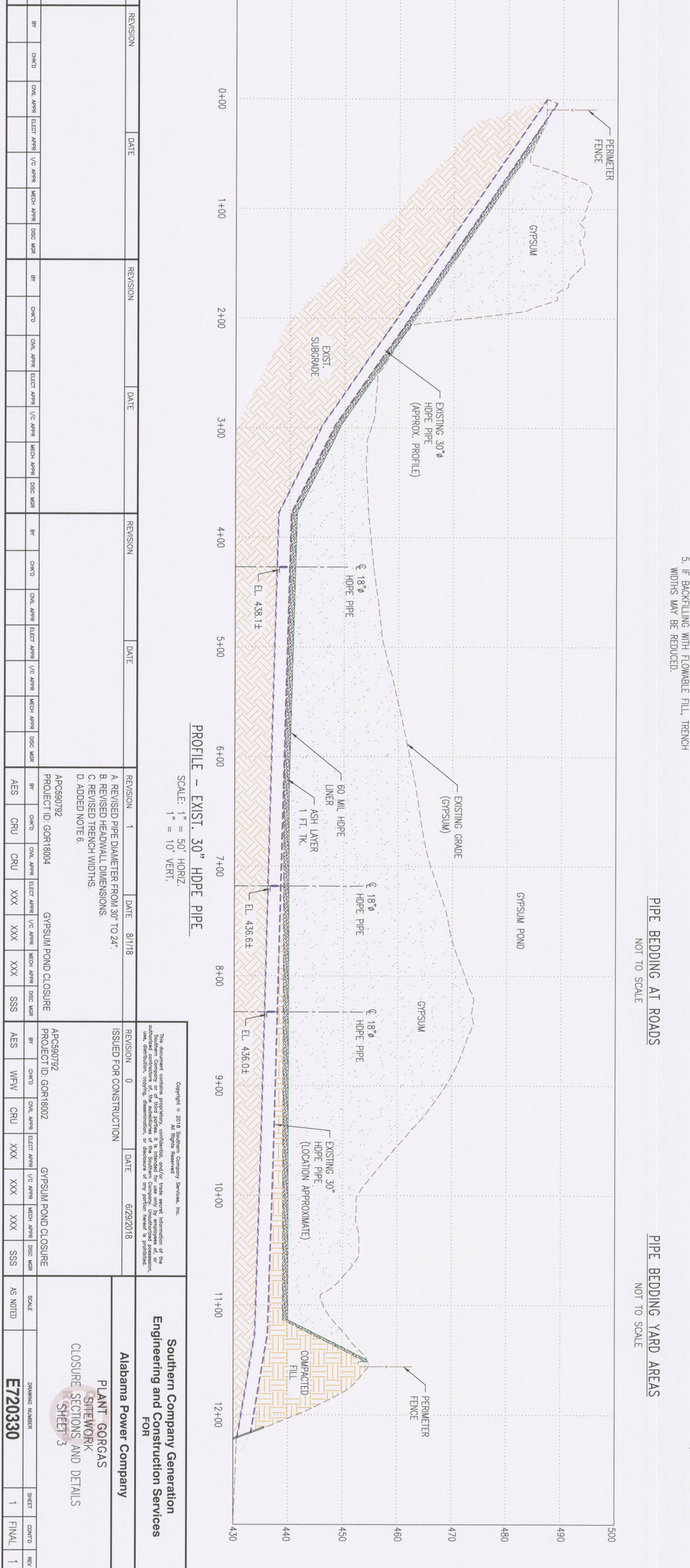


STORMWATER DIVERSION PIPE PLAN
SCALE: 1" = 60'



SLOPE PAVED HEADWALL
NOT TO SCALE

REVISION table with columns for REVISION, DATE, and a grid of checkboxes for different project phases.



PROFILE - EXIST. 30" HOPE PIPE
SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

REVISION table with columns for REVISION, DATE, and a grid of checkboxes for different project phases.

FLOWABLE FILL (FOR PIPE BACKFILL)

- 1. FLY ASH/CEMENT FLOWABLE FILL MIX SHALL CONSIST OF THE FOLLOWING (OR APPROVED ALTERNATE): 2000 LBS OF CLASS 7-# FLY ASH, 150 LBS OF CEMENT, 200 LBS OF CONCRETE SAND (GYP/SUM), 50 GALLONS OF WATER (FOULBLE).
- 2. ALL FLOWABLE FILL (BACKFILL) TO SET 72 HOURS PRIOR TO PLACING COMPACTED SOIL BACKFILL ON FLOWABLE FILL.
- 3. TO PREVENT FLOATION OF NEW PRESSES, HOLD DOWN STRIPS SHALL BE USED TO SECURE HOPE PRESSES PRIOR TO PLACING FLOWABLE FILL.
- 4. PREP SUPPORT MATERIAL FOR FLOWABLE FILL CONSTRUCTION SHALL BE CONCRETE BLOCKS OR BRICKS. WOODEN SUPPORTS ARE NOT ALLOWED.
- 5. COMPRESSION TESTING OF FLOWABLE FILL INCLUDING WANNING OR TEST CYLINDERS IS NOT REQUIRED.

PRESSES/APERTURES GENERAL INFORMATION

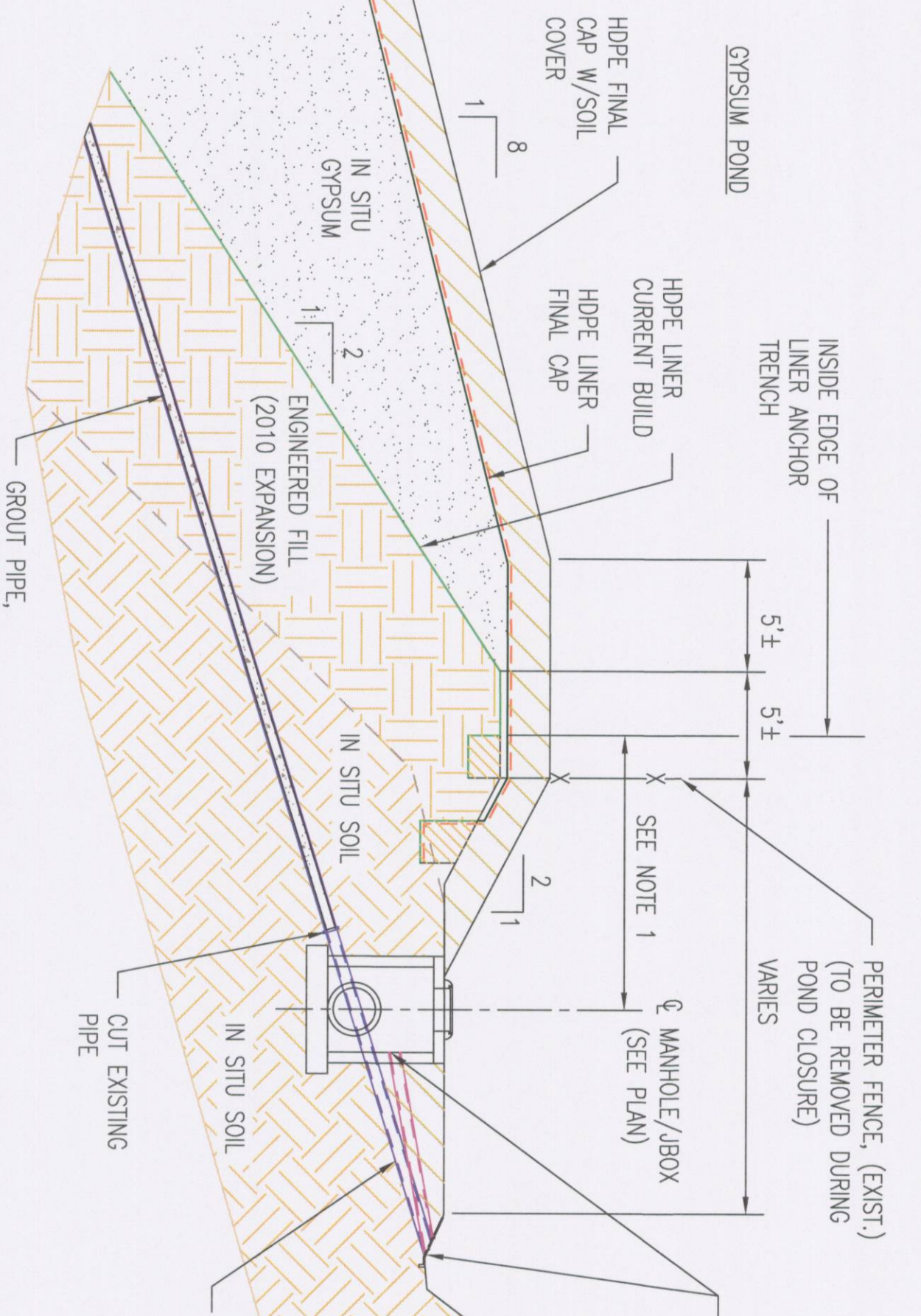
- 1. PIPE LENGTHS AND SLOPES ARE CALCULATED FROM THE WORKPOINTS OF THE PRESSES/STRUCTURES. WORK POINTS FOR PRESSES/STRUCTURES: MANHOLES - CENTER OF MANHOLE PRESSES WITH SLOPE PAVED HEADWALL - END OF PIPE/FACE OF CONCRETE
- 2. STORM DRAINAGE PRESSES SHALL BE HOPE SOLID WALL DR22.5 PRE OR IN THE CASE OF THE 18 INCH PRESS EXISTING DR (ASSUMED DR17) OR NEW DR22.5.
- 4. MANHOLES SHALL CONVAIR STEPS (IF DEPTHS REQUIRED) INSTALLED IN ACCORDANCE WITH OSM REGULATIONS AND SHALL BE SEALED AT JOINTS AND PIPE ENTRY/EXIT POINTS TO PROVIDE A WATERIGHT STRUCTURE.

PIPE GROUING

- 1. CLEAN ENTIRE LENGTHS OF PRES AND CONTROL BY VISUAL INSPECTION (CAMERA) THAT ALL DEBRIS AND WAX HAS BEEN REMOVED PRIOR TO GROUING OPERATIONS. INSERT A WATER JET TO PUSH MATERIALS WITHIN THE PIPE DOWNSTREAM TO THE OUTFALL.
- 2. COLLECT ALL MATERIAL REMOVED FROM THE PRESS AND DISPOSE OF PROPERLY.
- 3. VERIFY ALL PIPE VOLUMES PRIOR TO GROUING. MEASURE DIAMETERS AND CALCULATE VOLUMES USING LENGTHS PROVIDED ON THIS DRAWING. CALCULATED PIPE VOLUME IS TO BE COMPARED TO THE VOLUME OF GROUT INJECTED INTO THE PRES FOR DETERMINATION OF FILL. ALL VOLUMES ARE TO BE RECORDED.
- 4. CONSULT SCS TECHNICAL SERVICES AND SCS CIVIL FIELD SERVICES FOR ASSISTANCE/ADVICE IN GROUING METHODS. NOTE THAT SCS CIVIL FIELD SERVICES IS AVAILABLE TO PERFORM GROUING OPERATIONS. GROUT TO BE NON-SHRINK WITH STRENGTH AS DESIGNATED BY OWNER'S ENGINEER/ROUING PROFESSIONAL. INSTALL REPAIRABLE BLAGERS AND NEW/INJECTION PORTS AS NEEDED TO COMPLETELY FILL PIPE SYSTEM.

NOTES

- 1. CONTRACTOR TO VERIFY DISTANCE BETWEEN INSIDE EDGE OF EXISTING LINER ANCHOR TRENCH AND MANHOLES/24\"/>
- 2. MANHOLES TO BE FOLEY 48\"/>
- 3. THE CONTRACTOR SHALL ENSURE THAT ALL EXCAVATION WORK IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P AND ALL APPLICABLE STATE OR LOCAL REGULATIONS.
- 4. CONTRACTOR MAY SUBSTITUTE FLOWABLE FILL IN FIELD OF CONDUIT TO PREVENT FLOATION OF PRESSES AND INSURE ALTERNATES. SEE FLOWABLE FILL NOTES. THIS DRAWING.
- 5. EXISTING PIPE LENGTHS NOTED IN PLAN ARE CALCULATED LENGTHS ALONG THE SLOPE FOR AND IN DETERMINING VOLUMES CONSTRUCTION DRAINAGE (NOT AS BUILT SURFACES).
- 6. APPROXIMATE RADII REQUIRED AS SHOWN. FIELD ADJUST AS NEEDED. NOTE THAT THE MINIMUM GROUND BEDDING RADII OF 24 INCH DIA. DR22.5 PRE IS 85 FEET.

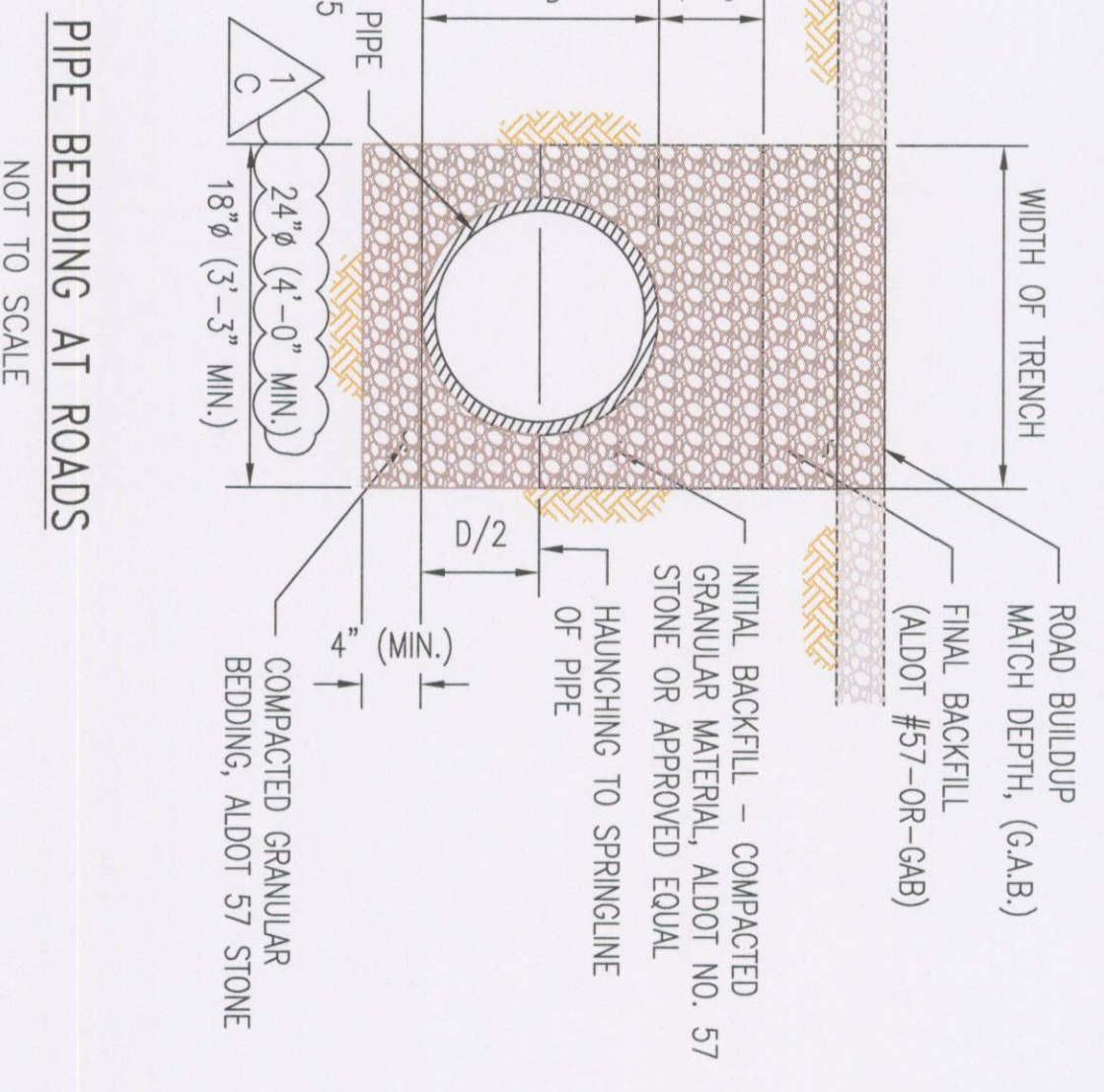


SECTION B-B
(THIS DWG.)
NOT TO SCALE

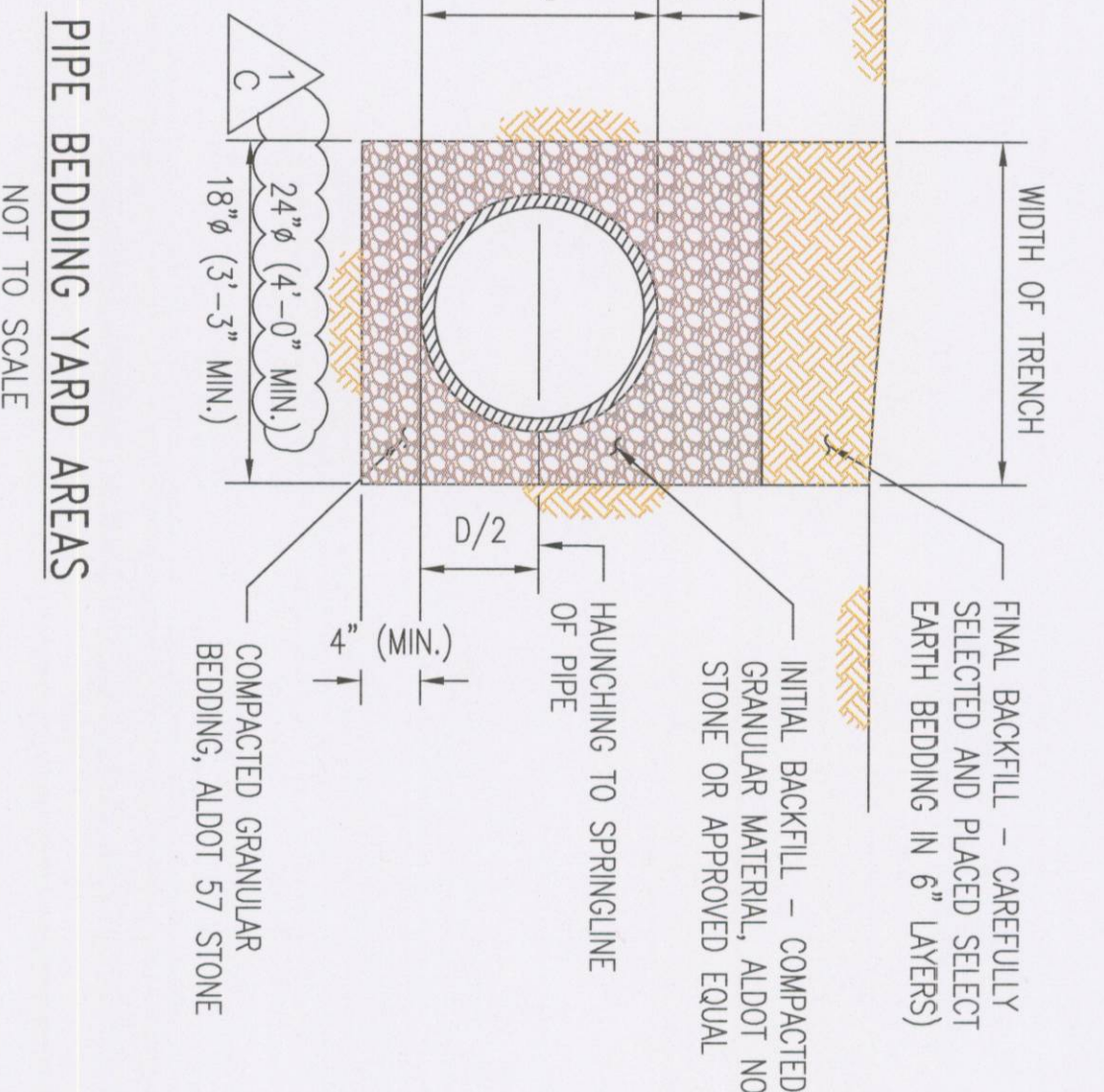
PIPE BEDDING NOTES

- 1. THE PIPE SHALL BE BEDDED WITH CARE IN A CONTINUOUS COMPACTED GRANULAR BED FORMED IN THE TRENCH BOTTOM SHAPED TO CONFORM TO 80% OF THE OUTSIDE DIAMETER OF THE PIPE.
- 2. THE BELT OF THE PIPE SHALL BE INSTALLED IN THE SAME MANNER AS THE BARREL.
- 3. WHERE PIPE IS INSTALLED IN ROUNDED, SELECT COMPACTED FILL SHALL BE GRANULAR BEDDING MATERIAL/ROAD AGGREGATE.
- 4. TRENCH BACKFILL TO BE COMPACTED TO MIN. 95% STANDARD PROCTOR DENSITY.
- 5. IF BACKFILLING WITH FLOWABLE FILL, TRENCH WIDTHS MAY BE REDUCED.

PIPE BEDDING AT ROADS



PIPE BEDDING YARD AREAS



**PLANT GORGAS GYPSUM POND CLOSURE
CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP)
WALKER COUNTY, ALABAMA**

NOTE: ALL WEIERSS OBTAINED IN THIS PLAN ARE TO BE IN ACCORDANCE WITH THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS," CURRENT EDITION, WITH THE INFORMATION BELOW FOLLOWING THE CBMPP TEMPLATE.

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

- 1.1 PROJECT/SITE INFORMATION**
 PROJECT NAME: PLANT GORGAS
 PROJECT LOCATION: 460 GORGAS ROAD
 PRINSH, AL 35350
 WALKER COUNTY, ALABAMA
- LATITUDE/LONGITUDE OF THE SITE CONSTRUCTION ENTRANCE/EXIT: 33°39'43.59" N 87°11'43.53" W
 METHOD FOR DETERMINING LATITUDE/LONGITUDE: GOOGLE MAPS

1.2 CONTACT INFORMATION/RESPONSIBLE PARTIES

REGISTERED PROFESSIONAL ENGINEER:
 ALABAMA POWER COMPANY (APC)
 PAULEA R. MCKINLEY, P.E.
 600 18TH STREET NORTH
 BOX 2844
 BIRMINGHAM, ALABAMA 35203
 TEL: (205) 257-4190
 EMAIL: PAULEAM@SOUTHERNCO.COM

PROJECT MANAGER:
 SOUTHERN COMPANY SERVICES, INC.
 DAVID B. PRATER
 460 GORGAS ROAD
 PRINSH, ALABAMA 35350-5715
 TEL: (205) 257-2206
 EMAIL: D@PRATER@SOUTHERNCO.COM

CBMPP CONTACT/COPIES:
 ALABAMA POWER COMPANY
 PAULEA R. MCKINLEY, P.E.
 BIRMINGHAM, ALABAMA 35291
 TEL: (205) 257-4190
 EMAIL: PAULEAM@SOUTHERNCO.COM

CON:
 ALABAMA POWER COMPANY
 ALESSA SMOKE
 600 18TH STREET NORTH
 BOX 124-1630
 BIRMINGHAM, AL 35203
 TEL: (205) 257-4190
 EMAIL: A@SMOKE@SOUTHERNCO.COM

EMERGENCY 24-HOUR CONTACT:
 ALABAMA POWER COMPANY
 MAJOR HAZUS
 TEL: (205) 498-2388

1.3 NATURE AND SEQUENCE OF CONSTRUCTION ACTIVITY
PERMIT REQUIREMENT(S):
 PART III.D.3. (b) REQUIRED A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURBS SOILS, INCLUDING BUT NOT LIMITED TO, GRUBBING, EXCAVATION, AND/OR GRADING.
 PART III.D.3. (c) REQUIRED ESTIMATES OF THE TOTAL AREA EXPECTED TO BE DISTURBED BY GRUBBING, EXCAVATION, AND/OR GRADING, INCLUDING OFFSITE BORROW AND FILL AREAS.

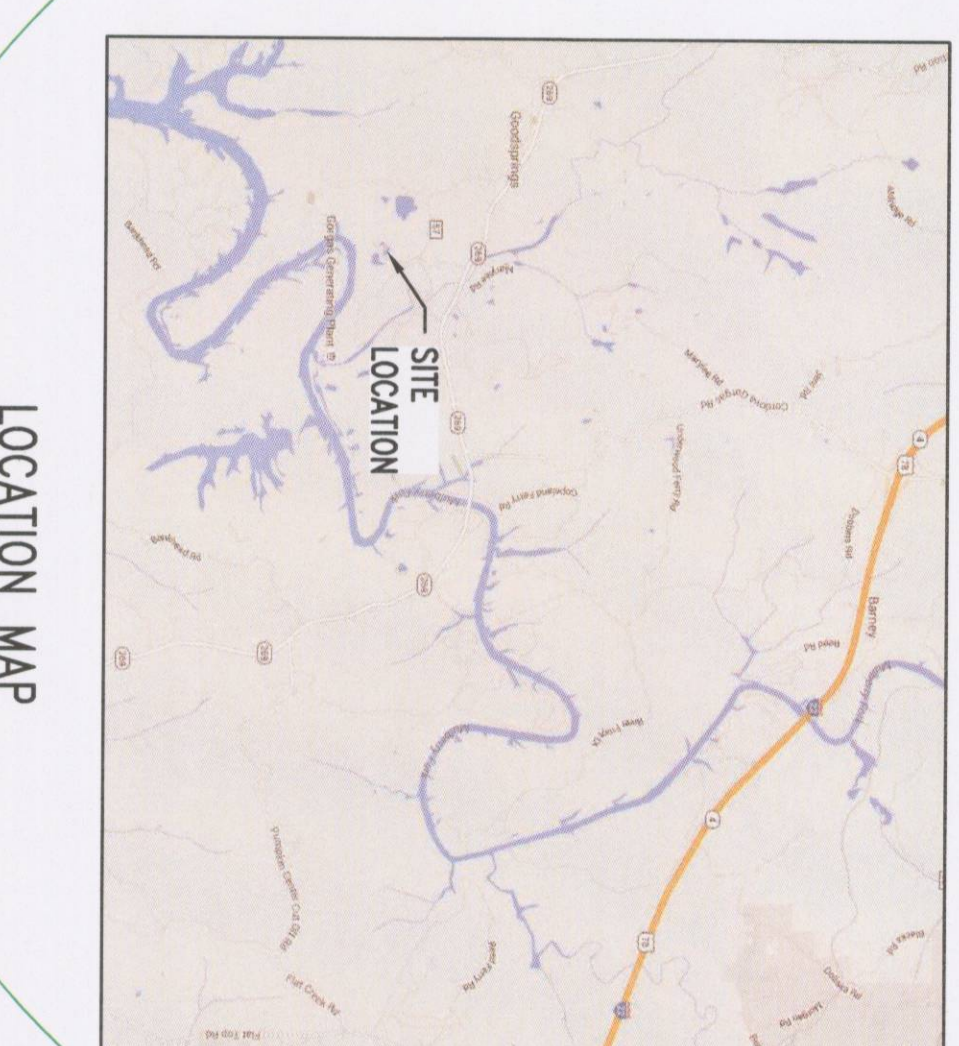
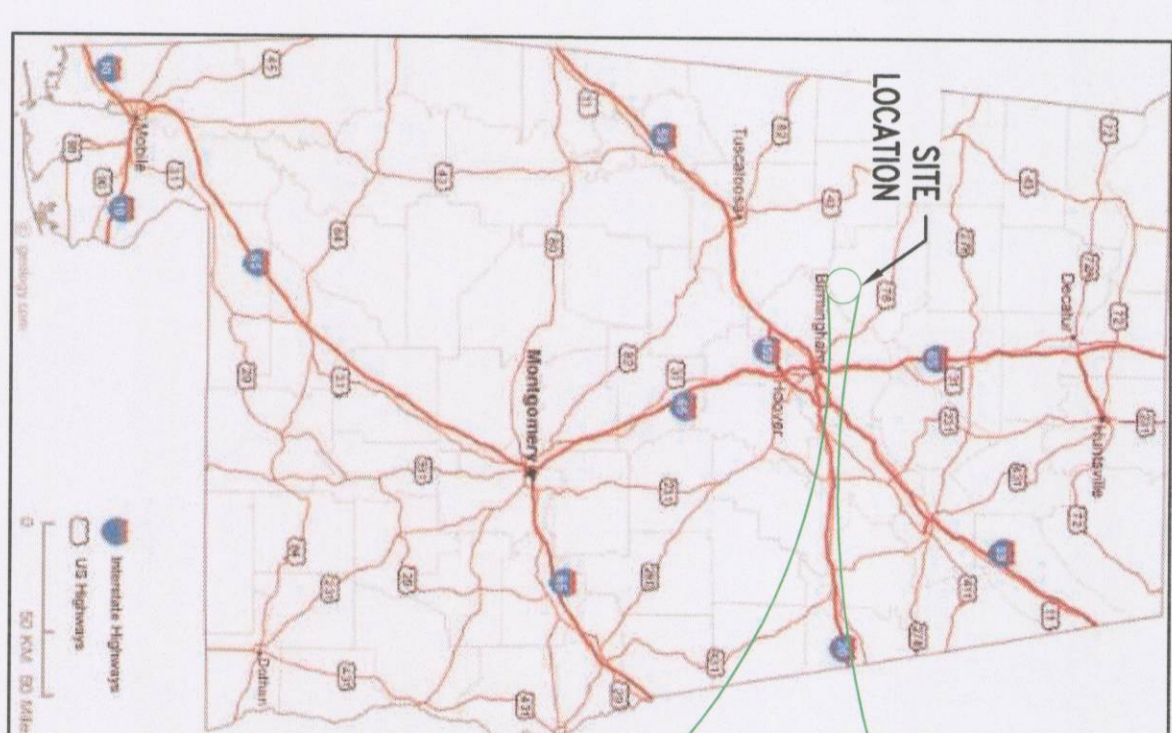
NATURE OF CONSTRUCTION ACTIVITIES:
 THE PLANT GORGAS GYPSUM POND CLOSURE PROJECT CONSISTS OF REMOVING THE GYPSUM WITHIN THE EXISTING PARTIALLY FILLED POND AND GRADING THE AREA TO DRUM. CONSTRUCTION FOR THIS PROJECT WILL ALSO CONSIST OF GRADING IN AREAS OUTSIDE OF THE LIKENED POND INCLUDING DITCH AND PRE CONSTRUCTION AND REMOVAL/GRADING OF THE EXISTING HOPE LIKENED SEDIMENT AND CLEAR POOL PONES AND EMERGENCY STORAGE CELL.

THE CURRENT PLANT PROCESS SYSTEM CONSISTS OF A PUMPED RETURN LINE FROM THE LEACHATE COLLECTION SYSTEM'S LIKENED PONES WILL BE UTILIZED DURING CONSTRUCTION TO COLLECT FLOW AND TREAT OUR CONTACT WATER. NO CONTACT WATER WILL BE ALLOWED TO DISCHARGE INTO THE NEARBY STREAMS (MULBERRY FORK), A SEDIMENT POND WILL BE CONSTRUCTED TO RECEIVE NON-CONTACT STORMWATER. THIS POND WILL BE UTILIZED AS A DETENTION POND UPON COMPLETION OF THIS PROJECT.

CONSTRUCTION SITE ESTIMATES
 AREA TO BE DISTURBED: 38.0 ACRES (APPROX.)
 IMPERVIOUS AREA ADDED: 0%
 ANTICIPATED OFF-SITE FILL AREAS WILL BE COMPACTED WITH PLANT GORGAS.

ANTICIPATED OFF-SITE FILL AREAS WILL BE COMPACTED WITH PLANT GORGAS.

ESTIMATED DATES OF ACTIVITY	CONSTRUCTION ACTIVITY AND BMPs TO BE IMPLEMENTED
TBD - DURATION APPROX. 1 WEEKS	CONTRACTOR MOBILIZATION
TBD - DURATION APPROX. 2 WEEKS	INSTALL INITIAL BMP'S (SILT FENCE, CHECK DAMS, INLET PROTECTION) INSTALL O&G PRESS DITCH TO INTERCEPT OFF-SITE STORMWATER RINFOW AND DIRECT FLOW FROM GYPSUM POND AREA.
TBD - DURATION APPROX. 3-6 WEEKS	REMOVE EXISTING LINER SYSTEM AND ASH BEDDING BELOW INSTALL INTERMEDIATE BMP'S (DIVERSION, DITCH CHECKS AND INLET PROTECTION) WITHIN GYPSUM POND AREA TO CONTROL STORMWATER RUNOFF AND DIRECT INTO EXISTING PLANT TREATMENT SYSTEM. CONSTRUCT NEW SEDIMENT POND, INSTALLING 60" RCP & TEMP. -GRADE BRANCHES TO DRUM. INSTALL PER BMP ELEVMS AND CENTRAL DRAINAGE DITCH AT POND BOTTOM. THIS MAY BE PERFORMED CONCURRENTLY WITH LINER/ASH REMOVAL AND GRADING BY INSTALLING AT HIGHER ELEVATIONS TO PREVENT ASH CONTACT.) INSTALL FINAL COVER SYSTEM AS WORK PROGRESSES. REMOVE LINER SYSTEM AND ASH AT EMERGENCY STORAGE CELL.
TBD - DURATION APPROX. 4 WEEKS	EXCAVATE DITCH AT SW CORNER OF GYPSUM POND TO BREAK-CELL AREA AND SW CORNER OF SITE. CONTRACTOR DEMOBILIZE - SITE STABILIZED, TEMPORARY BMPs REMOVED
TBD - DURATION APPROX. 8 WEEKS	DIRECT STORM WATER TO NEW SEDIMENT POND. INSTALL NEW DRAINAGE TILE AT SW CORNER UNDER ROAD TO REMOVE LINER SYSTEMS AND ASH BEDDING LAYER AT SEDIMENT POND AND CLEAR POOL. SHUT OFF DISCHARGE TO PLANT TREATMENT SYSTEM AND REMOVE BUILDING AND PUMPS ALONG WITH DISCHARGE LINES TO PLANT TREATMENT SYSTEM. INSTALL O&G PRESS DITCH TO COLLECT AND CONVEY STORMWATER RUNOFF FROM THE CONSTRUCTION AREA TO THE EXISTING PERMITTED WAGES DISCHARGE LOCATION ON THE NORTH SIDE OF THE MULBERRY FORK RIVER.
TBD - DURATION APPROX. 1 WEEK	CONTRACTOR DEMOBILIZE - SITE STABILIZED, TEMPORARY BMPs REMOVED



AMENDMENTS TO THE CBMPP
 THE OWNER OR OPERATOR MUST COMMUNICATE WITH THE LICENSED PROFESSIONAL WHO PREPARED THE CBMPP IF CURRENT BMP'S AND MEASUREMENTS PRESENT IN STORMWATER DISCHARGES AT THE SITE. ANY SIGNIFICANT CHANGES MUST BE UPDATED BY SMC.

A COPY OF THE CBMPP MUST BE KEPT ON-SITE OR AT AN ALTERNATE LOCATION PREVIOUSLY IDENTIFIED BY THE PERSONS ASSOCIATED WITH THE PROJECT MUST BE PROVIDED A COPY OF THE CBMPP, AND IT IS IMPORTANT THAT THE REGISTRANT ORIGIN WRITTEN ACKNOWLEDGMENT THAT A COPY OF THE CBMPP HAS BEEN OBTAINED BY ALL PERSONS ASSOCIATED WITH THE PROJECT.

NON-STORM WATER DISCHARGE
 IT IS NOT ANTICIPATED THAT ANY NON-STORM WATER DISCHARGES WILL OCCUR. IF IT IS DETERMINED THAT NON-STORM WATER DISCHARGES WILL BE MADE, INCLUDING DISCHARGES FROM FIRE FIGHTING ACTIVITIES, FIRE FIGHTING FLUSHING, PORTABLE WATER SOURCES, INCLUDING MILK SPRINGS, UNCONTAMINATED GROUND WATER, FOUNDATION OR FLOODING WATERS WHERE FLOWS ARE TO BE CONTAMINATED WITH PROCESS WATERS OR POLLUTANTS, THIS SECTION WILL BE AMENDED WITH THE DETAILS OF THE DRAINAGE. NO UNAUTHORIZED NON-STORMWATER DISCHARGES SHALL BE RELEASED OFF-SITE. ANY DRAIN WASH DISCHARGE, CONCRETE TRUCK WASHOUT, AND BINSWASHERS MUST BE CAPTURED AND REMOVED FROM THE SITE ACCORDING TO LOCAL STATE AND FEDERAL REGULATIONS.

NOTE:
 CBMPP DRAWINGS SHALL MEET OR EXCEED ALL REQUIREMENTS AND SPECIFICATIONS OF THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, MONITORING, RECORD KEEPING AND CBMPP REQUIRED INSPECTIONS FOR THE LIFE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADHERENCE TO SECTION 7 OF THE CBMPP TEMPLATE. FINAL STABILIZATION APPROVAL FROM THE OWNER AND APCO ENVIRONMENTAL AFFAIRS IS REQUIRED. ALL RECORDS AND INSPECTION REPORTS MUST RECEIVE FINAL APPROVAL FROM ALABAMA POWER COMPANY ENVIRONMENTAL AFFAIRS.



REFERENCES:
 E720308 - E720330
 E720332 - E720344

NOTES:
 1. SEE DRAWING E720308 FOR TITLE SHEET AND DRAWING INDEX.
 2. SEE DRAWING E720309 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.

REVISION		DATE		REVISION		DATE		REVISION		DATE		REVISION		DATE		REVISION		DATE					
BR	CON	DATE APPROVED	ELECT APPROVED	DATE APPROVED	DATE APPROVED	BR	CON	DATE APPROVED	ELECT APPROVED	DATE APPROVED	DATE APPROVED	BR	CON	DATE APPROVED	ELECT APPROVED	DATE APPROVED	DATE APPROVED	BR	CON	DATE APPROVED	ELECT APPROVED	DATE APPROVED	DATE APPROVED

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BR	CON	DATE APPROVED	ELECT APPROVED	DATE APPROVED	DATE APPROVED	BR	CON	DATE APPROVED	ELECT APPROVED	DATE APPROVED	DATE APPROVED	BR	CON	DATE APPROVED	ELECT APPROVED	DATE APPROVED	DATE APPROVED	BR	CON	DATE APPROVED	ELECT APPROVED	DATE APPROVED	DATE APPROVED								

**PLANT GORGAS GYPSUM POND CLOSURE
CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMP)
WALKER COUNTY, ALABAMA**

NOTE: ALL WEIGHS OBTAINED IN THIS PLAN ARE TO BE IN ACCORDANCE WITH THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, CURRENT EDITION, WITH THE INFORMATION BELOW FOLLOWING THE CBMP TEMPLATE.

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

1.1 PROJECT/SITE INFORMATION
PROJECT NAME: PLANT GORGAS
460 GORGAS ROAD
PARRISH, AL 35560
WALKER COUNTY, ALABAMA
LATITUDE/LONGITUDE OF THE SITE CONSTRUCTION ENTRANCE/EXIT: 33°39'43.59" N 87°11'43.53" W
METHOD FOR DETERMINING LATITUDE/LONGITUDE: GOOGLE MAPS

1.2 CONTACT INFORMATION/RESPONSIBLE PARTIES

ENGINEER:
SOUTHERN POWER COMPANY (SPC)
PARRISH, ALABAMA 35560
600 18TH STREET NORTH
BOX 2641
BIRMINGHAM, ALABAMA 35203
TEL: (205) 257-4190
EMAIL: P.WALKMAN@SOUTHERNCO.COM
PROJECT MANAGER:
SOUTHERN COMPANY SERVICES, INC.
DAVID B. FRAYER
460 GORGAS ROAD
PARRISH, ALABAMA 35560-5715
TEL: (205) 257-2208
EMAIL: DSFRAYER@SOUTHERNCO.COM
CAMP CONTACT/REP:
ALABAMA POWER COMPANY
PARRISH, ALABAMA, P.E.
BIRMINGHAM, ALABAMA 35291
TEL: (205) 257-4190
EMAIL: P.WALKMAN@SOUTHERNCO.COM
CONTRACTOR:
ALABAMA POWER COMPANY
LESSON SMOKE
600 18TH STREET NORTH
BOX 124-4830
BIRMINGHAM, AL 35293
TEL: (205) 442-2285
EMAIL: KSMOKE@SOUTHERNCO.COM
EMERGENCY 24-HOUR CONTACT:
ALABAMA POWER COMPANY
MAJOR HAZUS
TEL: (205) 488-2388

ESTIMATED DATES OF ACTIVITY	CONSTRUCTION ACTIVITY AND BMPs TO BE IMPLEMENTED
TBD - DURATION APPROX. 1 WEEKS	CONTRACTOR MOBILIZATION
TBD - DURATION APPROX. 2 WEEKS	-INSTALL INITIAL BMP'S (SILT FENCE, CHECK DAMS, INLET PROTECTION) -INSTALL SIG PRESS DITCH TO INTERCEPT OFF-SITE STORMWATER RUNOFF AND DIRECT AWAY FROM GYPSUM POND AREA.
TBD - DURATION APPROX. 3-6 WEEKS	-REMOVE EXISTING LINER SYSTEM AND ASH BEDDING BELOW -INSTALL INTERMEDIATE BMP'S (DIVERSION, DITCH CHECKS AND INLET PROTECTION) WITHIN GYPSUM POND AREA TO CONTROL STORMWATER RUNOFF AND DIRECT INTO EXISTING PLANT TREATMENT SYSTEM -CONSTRUCT NEW SEDIMENT POND, INSTALLING 60" RCP & TEMP. -GRADE BRANCHES TO DRAIN, INSTALL PRE PUMP TUMBLERS AND CENTRAL DRAINAGE DITCH AT POND BOTTOM. THIS MAY BE PERFORMED CONCURRENTLY WITH LINER/ASH REMOVAL AND GRADING BY INSTALLING AT HIGHER ELEVATIONS TO PREVENT ASH CONTACT. -INSTALL FINAL COVER SYSTEM AS WORK PROGRESSES -REMOVE LINER SYSTEM AND ASH AT EMERGENCY STORAGE CELL -EXCAVATE DIKE AT SW CORNER OF GYPSUM POND TO BREAK-CELL AREA AND SW CORNER OF SITE -FLUX REMAINING PIPE SYSTEM IN GYPSUM POND.
TBD - DURATION APPROX. 4 WEEKS	-DIRECT STORM WATER TO NEW SEDIMENT POND -INSTALL NEW DRAINAGE TIE AT SW CORNER UNDER ROAD TO REMOVE LINER SYSTEMS AND ASH BEDDING LAYER AT SEDIMENT POND AND CLEAR POOL SHUT OFF DISCHARGE TO PLANT TREATMENT SYSTEM AND REMOVE BUILDING AND PUMPS ALONG WITH DISCHARGE LINES TO PLANT TREATMENT SYSTEM -REMOVE EXISTING TIE AT SW CORNER DISCHARGE TIE AND PLACE FINAL COVER.
TBD - DURATION APPROX. 1 WEEK	-CONTRACTOR DEMOBILIZE - SITE STABILIZED, TEMPORARY BMP'S REMOVED

PROPOSED ACTIVITIES TO BE CONDUCTED ARE INDUSTRIAL.
REFER TO CAMP TEMPLATE PACKAGE FOR LIST OF MULTIPLE OPERATORS AND REQUIRED INFORMATION.

1.4 RECEIVING WATERS

THE EXISTING SITE RUNOFF FOR THE GORGAS POND CLOSURE PROJECT CURRENTLY IS CONNECTED TO THE EXISTING STORMWATER COLLECTION POND LOCATED NORTH OF THE MULBERRY FORK RIVER WHICH FLOWS SOUTH INTO THE BLACK WARRIOR RIVER BASIN. THE PROPOSED STORM DRAINAGE SYSTEM WILL CONTINUE TO COLLECT AND CONVEY STORMWATER RUNOFF FROM THE EXISTING SITE THROUGH THE EXISTING DRAINAGE SYSTEM TO THE EXISTING PERMITTED NIPES DISCHARGE LOCATION ON THE NORTH SIDE OF THE MULBERRY FORK RIVER.

EXISTING STORM SEWER SYSTEMS:
THE EXISTING STORM DRAINAGE SYSTEM WITHIN THE CONSTRUCTION LIMITS IS OWNED AND MAINTAINED BY PLANT GORGAS STEAM PLANT.

UNPAVED WATERS OR WATERS SUBJECT TO TULSA

REFER TO THE CAMP TEMPLATE, SECTION 1.3 FOR DETERMINATION. IF ANY WATERBODIES NAMED ABOVE ARE OUTSTANDING ALABAMA WATERS (AW) OR OTHER GOVERNMENT NATIONAL RESOURCES (ONWR), OR TRIBUTARY ALABAMA LAKE (TAL) OR IF ANY OF THE WATERBODIES COMPREHENSIVE OF THE WASTEWATER MANAGEMENT PROJECT ARE IMPAVED AND/OR SUBJECT TO TOTAL MAXIMUM DAILY LOADS (TMDLs).

1.5 POTENTIAL SOURCES OF POLLUTION

STORMWATER RUNOFF CONTAINING WASTE COMPONENT MAY OCCUR DURING CONSTRUCTION, DUE TO GRADING OPERATIONS, BUT THE PROPOSED CONSTRUCTION BEST MANAGEMENT PRACTICES (CBMP) WILL BE UTILIZED DURING CONSTRUCTION OF THE WASTEWATER MANAGEMENT PROJECT AND WILL MINIMIZE THE POTENTIAL FOR SEDIMENT IN THE STORMWATER RUNOFF.

THERE ARE NO KNOWN POTENTIAL POLLUTANTS IDENTIFIED OTHER THAN SEDIMENT TO STORMWATER RUNOFF.

1.6 MAPS
REFER TO CAMP TEMPLATE PACKAGE FOR ANY MAPS REQUIRED THAT ARE NOT PROVIDED ON THE CAMP DRAWINGS.

1.7 ADDITIONAL INFORMATION
REFER TO CAMP TEMPLATE PACKAGE FOR A LISTING OF ADDITIONAL INFORMATION (I.E. ENGINEERING SPECIFICATIONS, HISTORIC PRESERVATION, AND U.S. CORPS OF ENGINEERS DOCUMENTATION) PROVIDED IN APPENDIX H.

1.8 DELEGATION OF AUTHORITY
REFER TO CAMP TEMPLATE PACKAGE FOR THE DELEGATION OF AUTHORITY FORM PROVIDED IN APPENDIX I.

SECTION 2: EROSION AND SEDIMENT CONTROL BMPs
REFER TO DRAWING E720308 FOR THE CAMP DRAWING LIST

MEASURING RAINFALL
A RAIN GAUGE MUST BE INSTALLED AT THE SITE, AND RAINFALL MEASUREMENTS MUST BE RECORDED EVERY 24 HOURS.

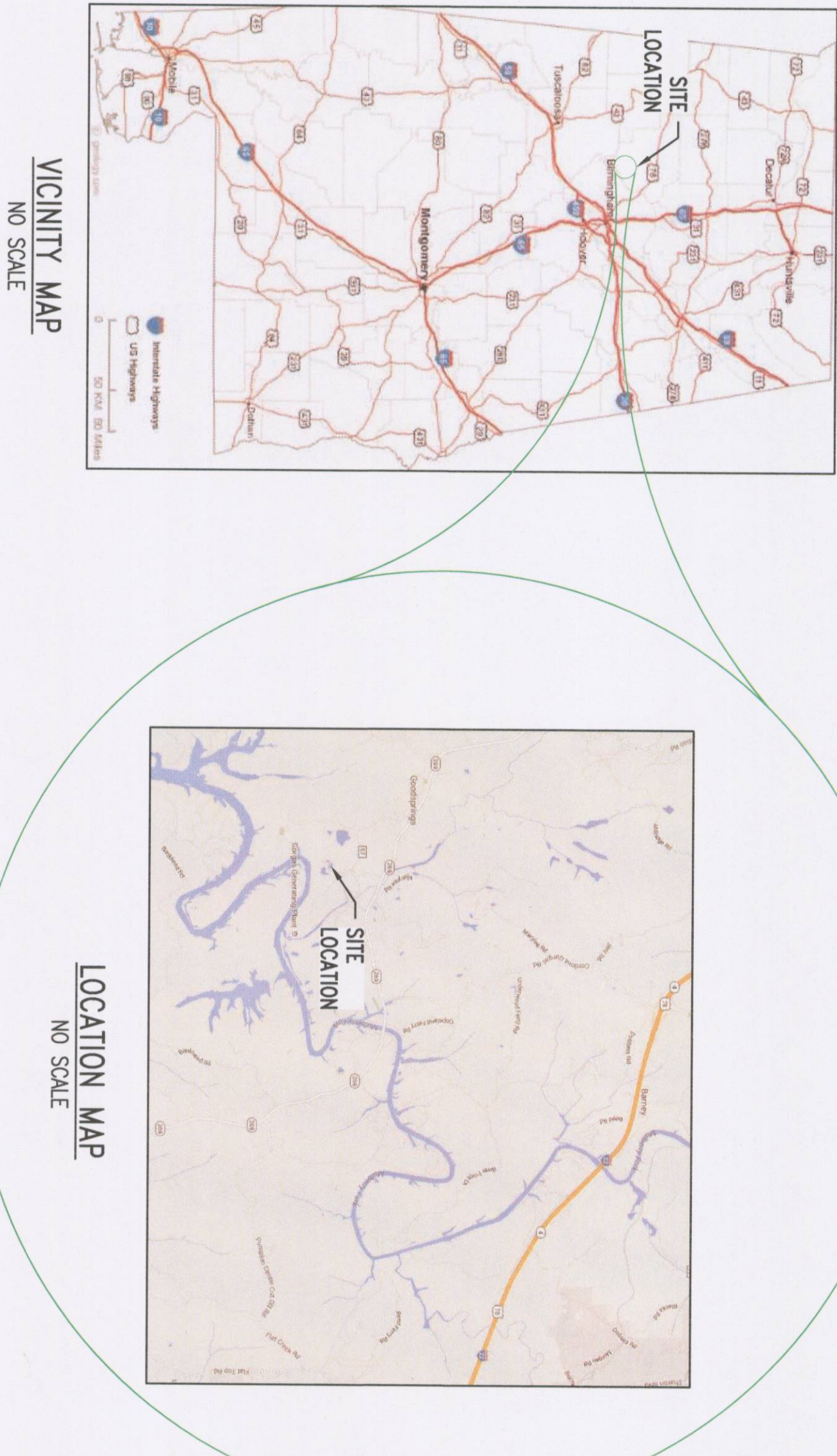
AMENDMENTS TO THE CBMP
THE OWNER OR OPERATOR MUST COMMUNICATE WITH THE LICENSED PROFESSIONAL WHO PREPARED THE CBMP. IF CORRECT BMP'S AND WASTEWATER MANAGEMENT MEASURES ARE NOT EFFECTIVELY ELIMINATING OR MINIMIZING THE POLLUTANTS PRESENT IN STORMWATER DISCHARGES AT THE SITE, ANY SCHEDULED CHANGES MUST BE UPDATED BY SMC.

A COPY OF THE CAMP MUST BE RETAINED ON-SITE OR AT AN ALTERNATE LOCATION PERMISSIBLE TO THE REGISTERS OF PROFESSIONALS ASSOCIATED WITH THE PROJECT. A COPY OF THE CAMP, AND IT IS IMPORTANT THAT THE REGISTERS BE WRITTEN ACKNOWLEDGMENT THAT A COPY OF THE CAMP HAS BEEN OBTAINED BY ALL PERSONS ASSOCIATED WITH THE PROJECT.

NON-STORM WATER DISCHARGE
IT IS NOT ANTICIPATED THAT ANY NON-STORM WATER DISCHARGES WILL OCCUR. IF IT IS DETERMINED THAT NON-STORM WATER DISCHARGES WILL BE MADE, INCLUDING DISCHARGES FROM FIRE FIGHTING ACTIVITIES, FIRE FIGHTING FLUSHING, PORTABLE WATER SOURCES, INCLUDING IN-LINE SPRINKLERS, REBARRING DRAINAGE, AIR CONDITIONING CONDENSATE DRAINAGE, UNCONTAMINATED GROUND WATER, FOUNDATION OR FLOODING WATERS OR POLLUTANTS, THIS SECTION WILL BE AMENDED WITH THE DETAILS OF THE DRAINAGE. NO UNAUTHORIZED NON-STORMWATER DISCHARGES SHALL BE RELEASED OFF-SITE. ANY DRAIN WASH DISCHARGE, CONCRETE TRUCK WASHOUT, AND WATERSHEDS MUST BE CONTAINED AND REMOVED FROM THE SITE ACCORDING TO LOCAL STATE AND FEDERAL REGULATIONS.

NOTE:
CAMP DRAWINGS SHALL MEET OR EXCEED ALL REQUIREMENTS AND SPECIFICATIONS OF THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND WASTEWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION.

NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, MONITORING, RECORD KEEPING AND CAMP REQUIRED INSPECTIONS FOR THE LIFE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LIFE OF THE PROJECT FOR THE INSTALLATION, MAINTENANCE, MONITORING, RECORD KEEPING AND CAMP REQUIRED INSPECTIONS FOR THE LIFE OF THE PROJECT. THE OWNER AND APOO ENVIRONMENTAL AFFAIRS IS REQUIRED. ALL RECORDS AND INSPECTION REPORTS MUST RECEIVE FINAL APPROVAL FROM ALABAMA POWER COMPANY ENVIRONMENTAL AFFAIRS.



GOODSPRING, AL QUADRANGLE 2014
SCALE: 1"=1000'
REFERENCES:
E720308-E720330
E720332-E720344
NOTES:
1. SEE DRAWING E720308 FOR TITLE SHEET AND DRAWING INDEX
2. SEE DRAWING E720309 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	

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PROJECT ID: GOR-0004
ISSUED FOR CONSTRUCTION
DATE: 12/20/2018

PROJECT NAME: GYPSUM POND CLOSURE
SHEET NUMBER: AS NOTED
DRAWING NUMBER: E720331

PLANT GORGAS
SYSTEMWORK
CBMP NOTES
SHEET 1
SHEET COUNT: 1
FINAL: 0

Approved

2.1 PHASE CONSTRUCTION ACTIVITY

PERMIT REQUIREMENT(S): PART II.4.1, REQUIRES THE PERMITTEE TO IMPLEMENT EROSION CONTROL, WEEDS AND SOIL MANAGEMENT MEASURES...

2.2 CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT

PERMIT REQUIREMENT(S): PART II.4.1, REQUIRES THE PERMITTEE TO DESIGN, INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROL MEASURES...

2.3 STABILIZE SOILS

PERMIT REQUIREMENT(S): PART II.4.1, REQUIRES THE PERMITTEE TO DESIGN, INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROL MEASURES...

2.4 STABILIZE SLOPES

PERMIT REQUIREMENT(S): PART II.4.1, REQUIRES THE PERMITTEE TO DESIGN, INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROL MEASURES...

2.5 PROJECT STORM DRAIN INLETS

PERMIT REQUIREMENT(S): PART II.4.1, REQUIRES THAT WHERE APPLICABLE, STORM DRAIN INLET PROTECTION MEASURES BE DESIGNED, IMPLEMENTED AND MAINTAINED...

2.6 ESTABLISH PERIMETER CONTROL BARRIERS

PERMIT REQUIREMENT(S): PART II.4.1, REQUIRES THE PERMITTEE TO DESIGN, INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROL MEASURES...

2.7 RETAIN SEDIMENT ON-SITE

PERMIT REQUIREMENT(S): PART II.4.1, REQUIRES THE PERMITTEE TO DESIGN, INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROL MEASURES...

2.8 ESTABLISH STABILIZED CONSTRUCTION EXITS

PERMIT REQUIREMENT(S): PART II.4.1, REQUIRES THE PERMITTEE TO DESIGN, INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROL MEASURES...

2.9 ADDITIONAL BMPs

PERMIT REQUIREMENT(S): PART II.4.2, REQUIRES THE PERMITTEE TO DESIGN, INSTALL AND MAINTAIN EFFECTIVE EROSION AND SEDIMENT CONTROL MEASURES...

SECTION 3.0: GOOD HOUSEKEEPING (GROUNDS KEEPING) BMPs

PERMIT REQUIREMENT(S):

PART II.4.1 (4) REQUIRES A DESCRIPTION OF THE PROCEDURES FOR HANDLING AND DISPOSING OF WASTES GENERATED AT THE SITE...

3.1 MATERIAL HANDLING AND WASTE MANAGEMENT

CONTRACTOR SHALL ASSURE MANAGEMENT OF PROPER MATERIAL HANDLING AREAS TAKEN TO PREVENT THE DISCHARGE OF SOLID MATERIALS AND/OR WASTES TO RECEIVING WATERS...

3.2 ESTABLISH PROPER BUILDING MATERIAL STORAGE AREAS

CONTRACTOR SHALL IDENTIFY CONSTRUCTION MATERIALS EXPECTED TO BE STORED ON-SITE OR WITHIN DESIGNATED STORAGE AREAS AS DESIGNATED AND APPROVED...

3.3 DESIGNATE WASHOUT AREAS

CONTRACTOR SHALL ESTABLISH AND PROVIDE PERMITTEE WITH LOCATIONS AND CONTROLS TO PREVENT THE POTENTIAL FOR DISCHARGES FROM WASHOUT AREAS ASSOCIATED WITH CONCRETE EXCAVATION AND CURING OPERATIONS...

3.4 ESTABLISH PROPER EQUIPMENT/VEHICLE FUELING AND MAINTENANCE PRACTICES

CONTRACTOR SHALL ESTABLISH AND PROVIDE PERMITTEE WITH EQUIPMENT/VEHICLE FUELING AND MAINTENANCE PRACTICES THAT WILL BE IMPLEMENTED TO CONTROL POLLUTANTS TO STORMWATER...

3.5 SOIL PREVENTION, CONTROL, AND MANAGEMENT

PERMITTEE SHALL REQUIRE THAT THE PERMITTEE SHALL PREVENT, AVOID, AND MAINTAIN A SOIL PREVENTION CONTROL AND MANAGEMENT PROGRAM...

3.6 NON-STORMWATER DISCHARGE MANAGEMENT

PERMIT REQUIREMENT(S): PART II.4.2, THIS PERMIT AUTHORIZES THE FOLLOWING NON-STORMWATER DISCHARGES PROVIDED THE NON-STORMWATER COMPONENT OF THE DISCHARGE IS IN COMPLIANCE WITH...

SECTION 4: SELECTING POST-CONSTRUCTION BMPs

PERMIT REQUIREMENT(S):

PART II.4.1 (4) REQUIRES A DESCRIPTION OF THE BEST MANAGEMENT PRACTICES TO BE IMPLEMENTED TO PREVENT OR REDUCE POLLUTION FROM POST-CONSTRUCTION ACTIVITIES...

SECTION 5: INSPECTIONS

5.1 INSPECTIONS

PERMIT REQUIREMENT(S): PART II.4.1, REQUIRES THE PERMITTEE TO CONDUCT INSPECTIONS OF THE CONSTRUCTION PROJECT TO MONITOR COMPLIANCE WITH THE PERMIT CONDITIONS...

SECTION 6: RECORD KEEPING AND TRAINING

6.1 RECORD KEEPING

PERMIT REQUIREMENT(S): PART II.4.1 (1) OF THE PERMIT REQUIRES THAT ALL RECORDS REQUIRED TO BE KEPT FOR A PERIOD OF ONE (1) YEAR SHALL BE KEPT AT THE PERMITTED FACILITY OR AN ALTERNATE LOCATION IDENTIFIED TO THE DEPARTMENT IN WRITING AND SHALL BE AVAILABLE FOR...

6.2 LOG OF CHANGES TO THE CAMP

PART II.5.1 (4) OF THE PERMIT REQUIRES THAT THE CAMP SHALL BE UPDATED AS NECESSARY TO ADDRESS CHANGES IN THE CONSTRUCTION ACTIVITY, SITE WEATHER PATTERNS, NEW HAZARDS IDENTIFIED OR APPROVED BY EPA, NEW STATE/LISTINGS APPROVED BY EPA, OR ANY OTHER RELEVANT INFORMATION...

SECTION 7: FINAL STABILIZATION

PERMIT REQUIREMENTS:

PART II.4.1 (1) OF THE PERMIT REQUIRES THAT FINAL STABILIZATION OF DISTURBED AREAS MUST BE COMPLETED IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION...

7.1 FINAL STABILIZATION

PERMITTEE SHALL DOCUMENT THE TRAINING TAKEN BY YOUR STAFF, FOR THOSE WITH SPECIFIC STORMWATER RESPONSIBILITIES (E.G. INSTALLING, INSPECTING, AND MAINTAINING BMPs) AND FOR SUPERVISORS...

7.2 FINAL STABILIZATION

PERMITTEE SHALL DOCUMENT THE TRAINING TAKEN BY YOUR STAFF, FOR THOSE WITH SPECIFIC STORMWATER RESPONSIBILITIES (E.G. INSTALLING, INSPECTING, AND MAINTAINING BMPs) AND FOR SUPERVISORS...

7.3 FINAL STABILIZATION

PERMITTEE SHALL DOCUMENT THE TRAINING TAKEN BY YOUR STAFF, FOR THOSE WITH SPECIFIC STORMWATER RESPONSIBILITIES (E.G. INSTALLING, INSPECTING, AND MAINTAINING BMPs) AND FOR SUPERVISORS...

7.4 FINAL STABILIZATION

PERMITTEE SHALL DOCUMENT THE TRAINING TAKEN BY YOUR STAFF, FOR THOSE WITH SPECIFIC STORMWATER RESPONSIBILITIES (E.G. INSTALLING, INSPECTING, AND MAINTAINING BMPs) AND FOR SUPERVISORS...

7.5 FINAL STABILIZATION

PERMITTEE SHALL DOCUMENT THE TRAINING TAKEN BY YOUR STAFF, FOR THOSE WITH SPECIFIC STORMWATER RESPONSIBILITIES (E.G. INSTALLING, INSPECTING, AND MAINTAINING BMPs) AND FOR SUPERVISORS...

SECTION 9: CERTIFICATION AND NOTIFICATION

PERMIT REQUIREMENT(S):

PART II.4.1 (1) OF THE PERMIT REQUIRES THAT THE PERMITTEE SHALL SUBMIT TO THE DEPARTMENT A CERTIFICATION AND NOTIFICATION PACKAGE FOR SIGNED CERTIFICATION AND NOTIFICATION...

9.1 CERTIFICATION AND NOTIFICATION

PERMITTEE SHALL SUBMIT TO THE DEPARTMENT A CERTIFICATION AND NOTIFICATION PACKAGE FOR SIGNED CERTIFICATION AND NOTIFICATION...

9.2 CERTIFICATION AND NOTIFICATION

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9.5 CERTIFICATION AND NOTIFICATION

PERMITTEE SHALL SUBMIT TO THE DEPARTMENT A CERTIFICATION AND NOTIFICATION PACKAGE FOR SIGNED CERTIFICATION AND NOTIFICATION...

Alabama Power Company

Southern Company Generation Engineering and Construction Services

PROJECT: GOR18004

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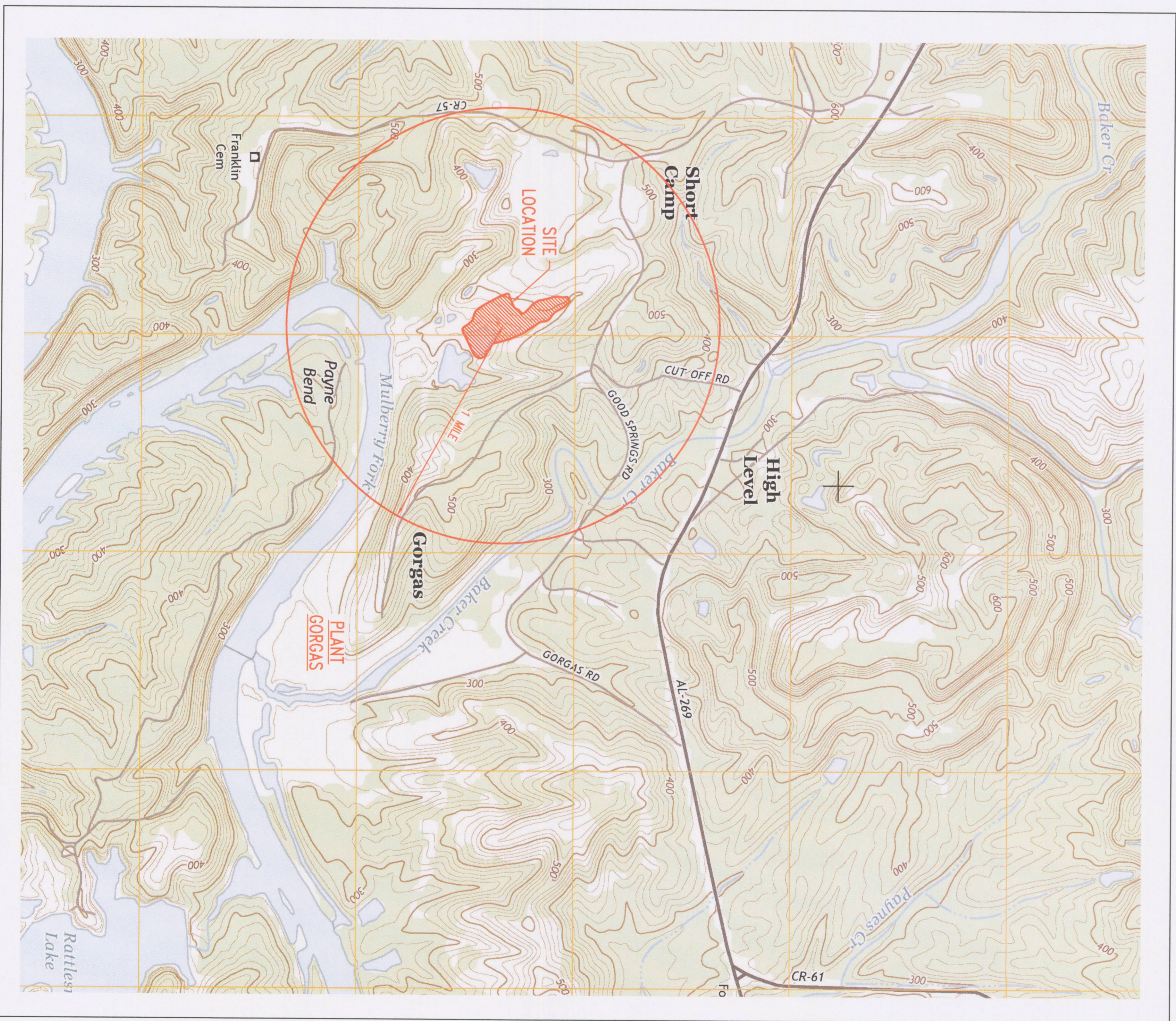
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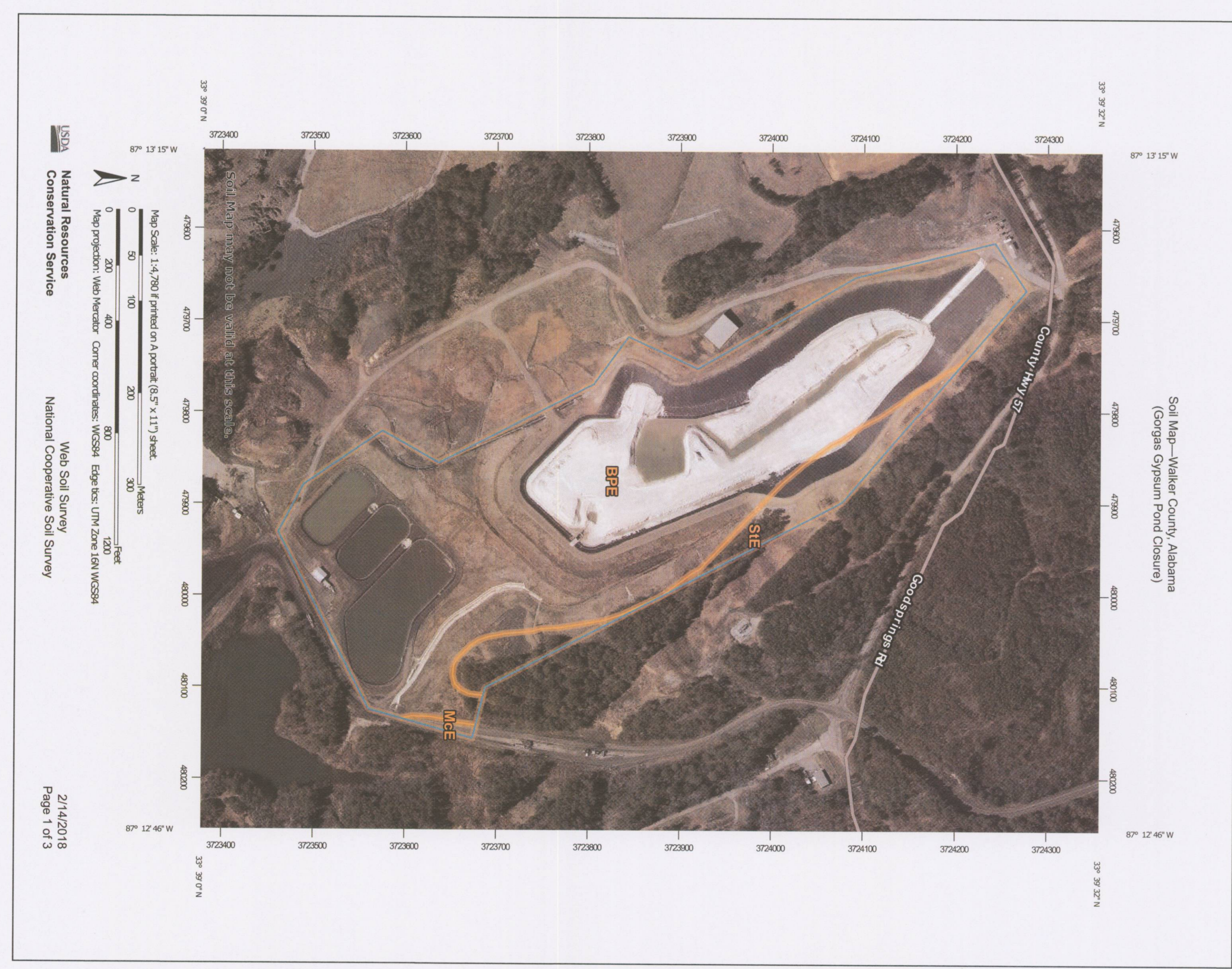


SOIL CHARACTERISTICS FOR PRINCIPAL SOILS IN ALABAMA

NAME	DEPTH (ft)	pH	K	HRGR GROUP	P.1	USDA	INTERNATIONAL CLASSIFICATION-UNITED STATES	ASTM
BRELLMINT	0-7	5.8-7.3	24	B	NP-16	ON-SLONW-LONK-SL	SM,SS,SP-SC,SU,M	A-2-A-4-2-6
	0-7	5.8-7.3	24		NP-16	ON-SLONK-LONK-SL	SM,SC,SP-SM,SM-SC	A-2-A-4-2-6
	0-7	5.8-7.3	24		NP-7	ON-SLON-LON-SL	SM,SM-SC,GM,GM-SC	A-1
	7-12	5.8-7.3	24		NP-16	ON-SLONK-LONK-SL	SM,SC,SP-SM-SC	A-2-A-4-2-6
PALEWOLE	0-5	3.8-5.5	24	B	NP-10	ON-SLONK-LONK-SL	CC,SM,GM,SC	A-1-A-2
	0-5	3.8-5.5	24		3-16	ON-SLONW-SQL	GM,SC,CC,SM	A-2-A-4
	5-80	3.8-5.5	24		3-16	ON-SLON-LONK-L	CC,SM,GM,SC	A-2-A-4
MONTEWALO	0-6	4.5-6.0	20	D	NP-10	ON-SLONW-LONK-L	GM,CC,GM,SM-SC,SC	A-2-A-4
	0-6	4.5-6.0	28		NP-10	ON-SLON-L	SM,SC,CC,M,C,L	A-1-B
	6-16	5.8-7.3	32		2-15	ON-SLONW-L	GM,CC,GM,SM-SC,SC	A-2-A-4-A-6
	16-36				WB			
SUNLIGHT	0-3	4.5-5.5	24	D	NP-10	ON-SLON-LONK-L	SM,M,GM	A-4
	0-3	4.5-5.5	24		NP-10	ON-SLON-SLONK-L	SM,M,GM,CC,GM-CC,C,L	A-4-A-6
	3-12	4.5-5.5	24		4-15	ON-SLON-SLONK-L	SM,M,GM,CC,GM-CC,C,L	A-4-A-6
	4.5-5.5	17			WB		A-2-A-4-A-6	
TOWMLEY	0-6	3.8-5.5	28	C	NP-7	SLS,SL	SM,C-L,M,M,L	A-2-A-4
	0-6	3.8-5.5	32		NP-10	SQL,C,C	C,L,C,L-M,L	A-6-A-7
	6-22	3.8-5.5	27		NP-10	SQL,C,C	M,L,C,L,M,L	A-4
	22-35	3.8-5.5	28		14-37	SLS,SL	C,L,M,L,C,M,M	A-4
	35-40				UMB			A-7

MAP UNIT LEGEND

SOIL SYMBOL	SOIL NAME
BPE	Brilliant and Polimetric extremely channery loams, 6 to 80 percent slopes
MCE	Montevic channery silt loam, 30 to 80 percent slopes
SCE	Sunlight-Townley complex, 15 to 45 percent slopes



- NOTES:**
1. SEE DRAWING E720308 FOR TILE SHEET AND DRAWING INDEX.
 2. SEE DRAWING E720309 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.

REFERENCES:

- E720308-E720332
- E720334-E720341

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, MONITORING, RECORD KEEPING AND COMPLETION OF REQUIRED INSPECTIONS FOR THE LIFE OF THE PROJECT AND UNTIL FINAL STABILIZATION IS REACHED AS OUTLINED IN SECTION 7 OF THE CEMP TEMPLATE. FINAL STABILIZATION APPROVAL FROM THE OWNER IS REQUIRED FOR ANY SUBSEQUENT RECONSTRUCTION. ALL RECORDS AND COMPANY ENVIRONMENTAL AFFAIRS.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF CONSTRUCTION BEST MANAGEMENT PRACTICES PRIOR TO LAND STORAGE REQUIREMENTS AND UNTIL FINAL STABILIZATION IS REACHED AS OUTLINED IN SECTION 7 OF THE CEMP TEMPLATE. FINAL STABILIZATION APPROVAL FROM THE OWNER IS REQUIRED FOR ANY SUBSEQUENT RECONSTRUCTION. ALL RECORDS AND COMPANY ENVIRONMENTAL AFFAIRS.

CEMP MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION, ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

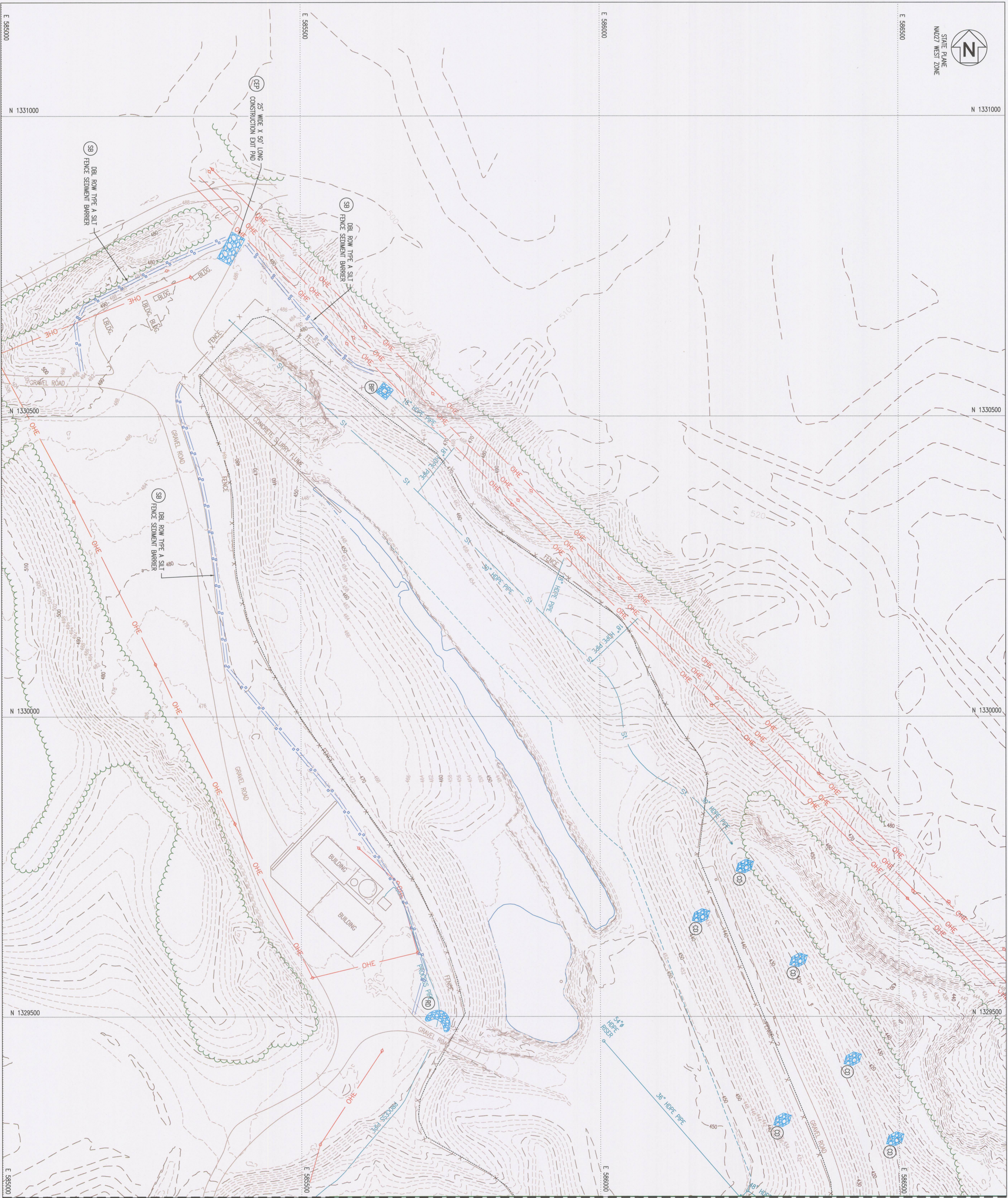
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 13 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
ISSUED FOR CONSTRUCTION	12/20/2018										

PROJECT ID: GORGAS01
PROJECT NAME: GYPSIUM POND CLOSURE
PROJECT NUMBER: E720333
SHEET: 1
FINAL: O

Client: Southern Company Generation
Contractor: Alabama Power Company

DRAWN BY: [Name]
CHECKED BY: [Name]
DATE: 12/20/2018



N 1331000

N 1330500

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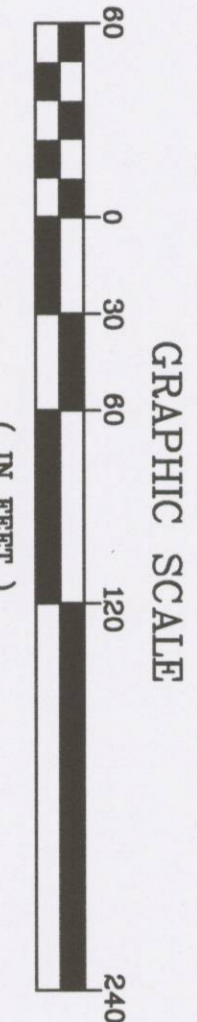
N 1330000

N 1329500

E 5855000

E 5855000

MATCH LINE (SEE DWG. E720339)



EROSION CONTROL LEGEND

- CONSTRUCTION EXIT PAD
- SEDIMENT BARRIER (TYPE "A" SILT FENCE)
- INGRAPPE SMALE
- ROCK FILTER DAM
- STONE CHECK DAM
- BLOCK AND GRAVEL INLET PROTECTION

REFERENCES:

- E720339 - E720337
- E720339 - E720341

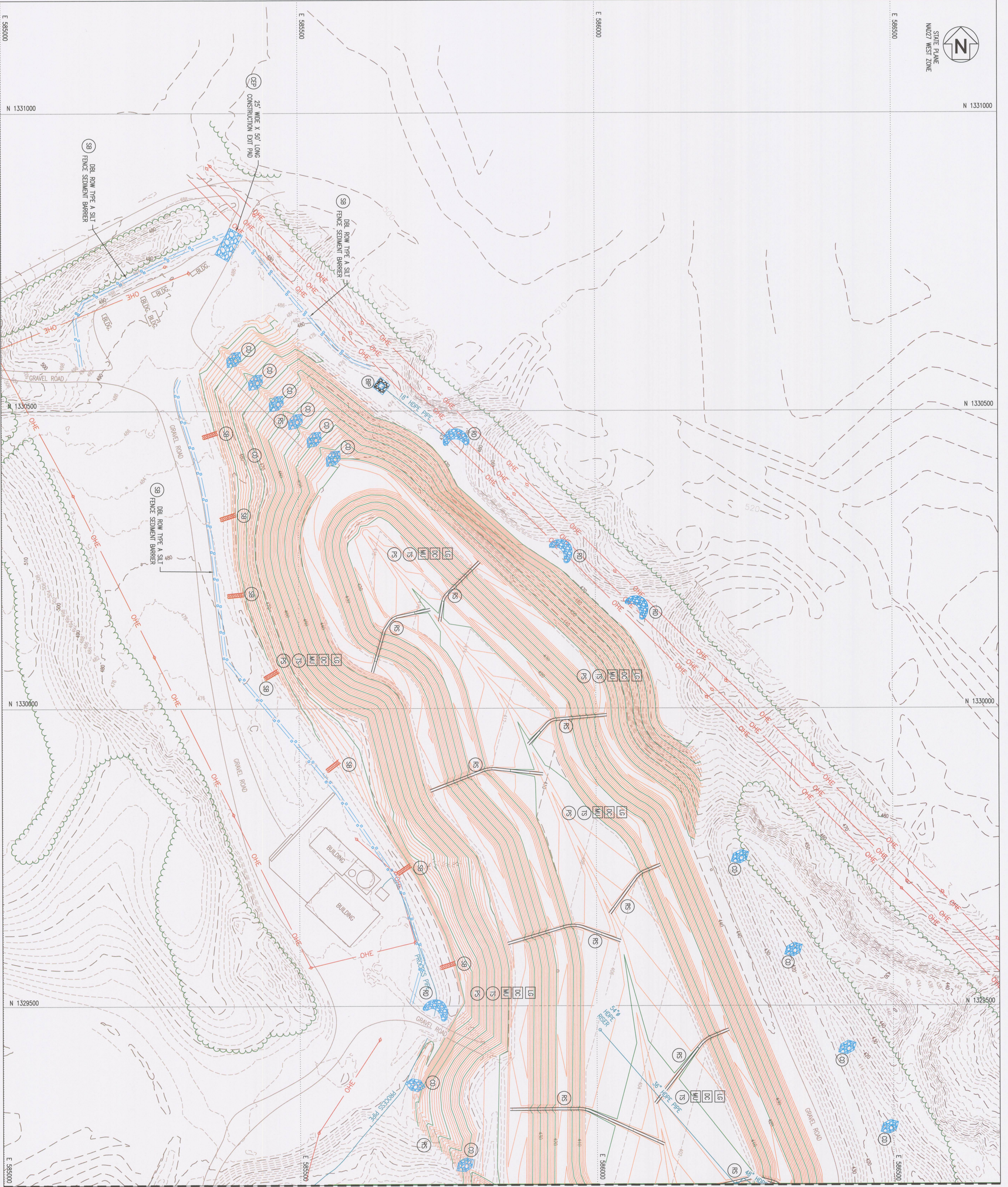
NOTES:

1. SEE DRAWING E720308 FOR TITLE SHEET AND DRAWING INDEX.
2. SEE DRAWING E720309 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.

REVISION		DATE		REVISION		DATE		REVISION		DATE	



STATE PLANE
NAD27 WEST ZONE

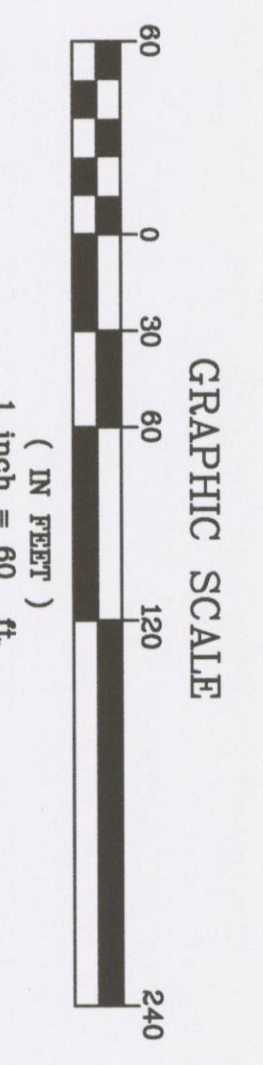


MATCH LINE (SEE DWG. E720341)

- EROSION CONTROL LEGEND**
- (25) CONSTRUCTION EXIT PWD
- (SB) SEDIMENT BARRIER (TYPE "A" SILT FENCE)
- (RS) RIPPAP SWALE
- (RF) ROCK FILTER DAM
- (SC) STONE CHECK DAM
- (BP) BLOCK AND GRAVEL INLET PROTECTION
- (LG) LAND GRADING
- (DC) DUST CONTROL
- (ML) MULCHING
- (TS) TEMPORARY SEEDING
- (PS) PERMANENT SEEDING
- (SB) SEDIMENT BARRIER (COMPOST FILTER SOCK)

- REFERENCES:**
- E720308- E720339
- E720341

- NOTES:**
- 1. SEE DRAWING E720308 FOR TITLE SHEET AND DRAWING INDEX.
- 2. SEE DRAWING E720309 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE

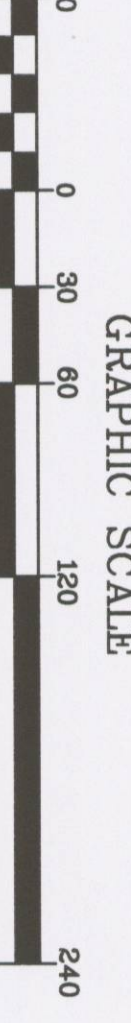
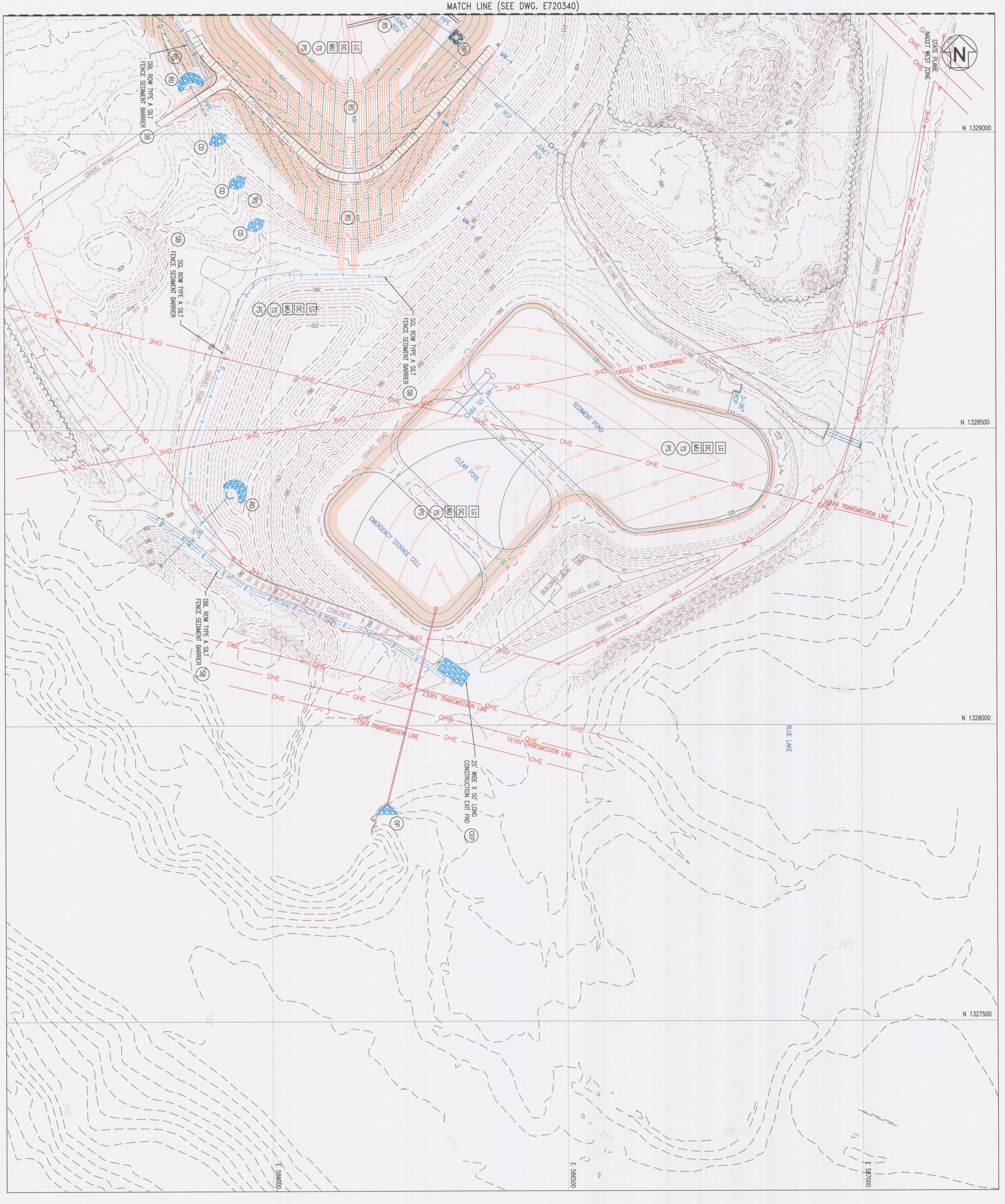
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PROJECT ID: GGR1004	ISSUED FOR CONSTRUCTION
PROJECT NAME: GRP&M POND CLOSURE	DATE: 12/20/18
PROJECT NUMBER: MNO-APC26072	SCALE: 1"=60'
PROJECT ID: GGR1004	PROJECT NUMBER: MNO-APC26072
PROJECT NAME: GRP&M POND CLOSURE	PROJECT ID: GGR1004
PROJECT NUMBER: MNO-APC26072	PROJECT NAME: GRP&M POND CLOSURE
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PROJECT NAME: GRP&M POND CLOSURE	PROJECT ID: GGR1004
PROJECT NUMBER: MNO-APC26072	PROJECT NAME: GRP&M POND CLOSURE

Southern Company Generation
Engineering and Construction Services
FOR

Alabama Power Company
PLANT: GORGAS
SITEWORK AND FINAL PHASE
SHEET 1

DATE: 12/20/18
SCALE: 1"=60'
DRAWN BY: [Redacted]
CHECKED BY: [Redacted]
PROJECT NUMBER: MNO-APC26072
PROJECT ID: GGR1004
PROJECT NAME: GRP&M POND CLOSURE



- #### EROSION CONTROL LEGEND
- ⊖ Construction Exit PAD
 - ⊖ Sediment Barrier (Type 'A' Silt Fence)
 - ⊖ RRRPP Swale
 - ⊖ Rock Filter Dam
 - ⊖ Stone Check Dam
 - ⊖ Block and Gravel Inlet Protection
 - ⊖ Land Grounds
 - ⊖ Dust Control
 - ⊖ Mulching
 - ⊖ Temporary Seeding
 - ⊖ Permanent Seeding
 - ⊖ Sediment Barrier (Compound Filter Sock)
 - ⊖ Stone Outlet Protection

REFERENCES:
E720308-E720340

NOTES:
1. SEE DRAWING E720308 FOR TITLE SHEET AND DRAWING INDEX
2. SEE DRAWING E720309 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE

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PROJECT ID: GOR-R004 PROJECT NAME: GORGAS PLANT PROJECT LOCATION: GORGAS PLANT PROJECT DATE: 12/20/15 PROJECT STATUS: ISSUED FOR CONSTRUCTION	DRAWING NUMBER: E720341 DRAWING TITLE: GORGAS PLANT SITESWORK INTERMEDIATE AND FINAL PHASE SHEET 2 SCALE: 1"=60' SHEET NUMBER: 1 SHEET TOTAL: 0
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Southern Company Generation and Construction Services
FOR
Alabama Power Company
PLANT GORGAS SITESWORK INTERMEDIATE AND FINAL PHASE SHEET 2

ANSI E 44.24