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**ADDENDUM NO. 1 TO PROJECT NO. 44864**

**CONSTRUCTION WORK  
REHABILITATE CLEAR LAKE DAM  
COLLINS CORRECTIONAL FACILITY  
MIDDLE ROAD  
COLLINS, NY 41034-0490**

April 21, 2017

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**CONTRACT SPECIFICATIONS:**

1. SECTION 013113 PROJECT SCHEDULE:
  - a. Replace existing specification with the attached specification in its entirety.
2. SECTION 015000 CONSTRUCTION FACILITIES & TEMPORARY CONTROLS:
  - a. Paragraph 1.08 (Temporary Fence Enclosure): Remove this Paragraph in its entirety.
3. SECTION 310101 SITE RESTORATION:
  - a. Replace existing specification with the attached specification in its entirety.

**CONTRACT DRAWINGS:**

1. DRAWING S-306 INTAKE STRUCTURE MODIFICATION – 4 SECTIONS AND DETAILS-3:
  - a. Replace the existing Drawing with the attached drawing.

**END OF ADDENDUM**

Margaret F. Larkin  
Executive Director  
Design and Construction

## **SECTION 013113**

### **PROJECT SCHEDULE**

#### **PART 1 GENERAL**

##### **1.01 RELATED REQUIREMENTS AND INFORMATION SPECIFIED ELSEWHERE**

- A. Summary of Work: Section 011000.
- B. Administrative Requirements: Section 013000.
- C. Project Meetings: Section 013119.

##### **1.02 SUMMARY**

- A. Section includes administrative and procedural requirements to plan, schedule, and document the progress of the Project, and predict and prevent delays to established activities and milestones during performance of the Work.

##### **1.03 SUBMITTALS**

- A. Waiver of Submittals: The “Waiver of Certain Submittal Requirements” in Section 013300 does not apply to this Section.
- B. Schedule Submittals:
  - 1. CMU 01 Agreement Form

##### **1.04 DEFINITIONS**

- A. Project: Work to be performed as part of one or more Contracts.
- B. Project Team: Persons acting on behalf of the State and/or Contractors in an effort to successfully plan, schedule, and coordinate the Work of the Project.
- C. Project Work Plan: A comprehensive list of Contractor tasks, predecessors, durations, resources, budgeted cost, etc. used to develop the Project Schedule.
- D. Schedule: A comprehensive leveling of necessary procedural tasks, task sequencing, projected start and finish dates, and resource allocation required to successfully complete the Work by the Project completion date.
- E. Activity: A task or grouping of tasks containing an anticipated start-date and corresponding duration, comprising a generalized portion of the Work, that can be identified and measured for planning, coordinating, monitoring, and controlling the project.
- F. Milestone: A significant start or finish to Work on a given set of activities on the Project defined by both the Director’s Representative and the Contractors.

- G. Bid Milestones: Milestones or phases identified and included in the Contract Documents to be utilized by the Contractors and Project Team in developing the Baseline Project Schedule.
- H. OGS Project Management System (OGS PMS): The collaborative online system is provided by OGS for Contractors to establish their Project Work Plan activities, duration, predecessors, resources and budgeted cost for Work of the Project.
- I. Baseline Project Schedule: Derived from the Contractors' Project Work Plan activities and their prescribed durations, predecessors, etc. recognizing the completion of the Work of the Project in accordance with the Contract duration and approved by the Director's Representative and Contractors.
  - 1. The OGS Scheduling will build a Baseline Project Schedule from the Contractors' Baseline Project Work plan to determine projected start and finish dates.
  - 2. Updates to the Baseline Project Schedule, including but not limited to projected starts, finishes, and activity remaining duration, as agreed upon at the Project Schedule meeting by the Contractors and the Director's Representative, shall be defined as the Project Schedule.
  - 3. The Baseline Project Schedule will remain unaltered as a tool to measure progress outlined and anticipated during the initial Project Schedule meeting.
- J. Float: The measure of latitude in starting and/or completing an activity without impeding on the successful realization of Project milestones.
  - 1. Float time is not for the exclusive use or benefit of either the State or the Contractors, but is a jointly owned expiring Project resource; float is available as needed to meet scheduled milestones and Project completion.
  - 2. Recognizing float within an activity, or chain of activities, does not permit the Contractors to disrupt progress or delay completion of an activity.
- K. Resource: Any labor, material, or equipment, shared or exclusive, required for the completion of an Activity or the Work, which recognizes an associated cost.
- L. OGS Scheduling: A member of the OGS Scheduling Department responsible for assisting with reviewing and interpretation of Contractor Project Work Plans related information.

#### **1.05 DEVELOPMENT OF THE PROJECT WORK PLAN**

- A. The OGS PMS is the online environment where the Contractors will build and develop the Baseline Project Work Plan.
- B. Contractors will input information on the OGS PMS relating to activity naming, duration, predecessors, resources and budgeted cost. The Director's

Representative and OGS Scheduling will review prior to the initial Project Schedule meeting.

- C. The Director's Representative will schedule the initial Project Schedule meeting within 15 calendar-days of Project Award. The meeting will include members of the Project Team and will be conducted by OGS Scheduling for the purpose of reviewing the Contractors' initial Project Work Plan, defining the intent of the specification, and realizing a Project Work Plan management strategy for all required iterations and reporting. The mutual agreements reached at this and subsequent meetings form the basis for the Baseline Project Schedule, and will be used for coordinating, scheduling, and monitoring the Work of all related contracts.
  - 1. OGS Scheduling will work with other members of the Project Team to review and discuss activities, task summaries, contractual or Project milestones, intermediate and critical milestones, and testing, inspection, or commissioning periods to assist in planning or coordination.
  
- D. The Contractor will sign the CMU 01 Agreement form (blank included in Document 013113) within five (5) calendar-days of final Baseline Project Schedule review and approval by the Director's Representative. Failure to develop the Baseline Project Work Plan, and sign the CMU 01 Agreement form will not absolve the Contractors of the Project Work Plan requirements. The Contractors will be required to provide the necessary resources, at no additional charge to the State, to complete the Project in the manner defined by the Director's Representative.
  - 1. The Baseline Project Schedule and CMU 01 agreement are to be completed within 45 days of Project Award. Failure by the Contractors to provide the required or requested information will result in the withholding of progress payments.
  
- E. Bid Milestones are to be incorporated into the Project Work Plan.

## **1.06 UPDATING THE PROJECT WORK PLAN**

- A. Monthly Project Schedule meetings will be held to review Contractors' updates to the actual starts, actual finishes, and remaining duration of in-progress activities, and consider logic changes, predecessor alterations, duration amendments, time impact events, and scope changes, for the purpose of determining the status of construction progress for the updated Project Schedule.
  - 1. During the progress of Work on the Project, the Contractors are required to document actual start, actual finish, and remaining duration on a daily basis. Information will be posted by the Contractors to the OGS PMS and as defined during the Initial Project Schedule meeting.
  - 2. Contractors must update the status of all their activities two (2) days prior to the Project Schedule Meeting. The Contractors will notify the Director's Representative and OGS Scheduling when their information is complete.
    - a. Any variation of 5 days (+/-) in the start or finish date for each activity must be explained and posted.

3. At the Progress Schedule Meeting, the Contractor, Director's Representative, and OGS Scheduling will review the documented progress and planned work.
  4. Any Contractor failing to progress their Work as outlined in the updated Project Work Plan will be informed of their deficiencies and, if required, be requested to provide a recovery option.
- B. The Contractors will furnish all Project Work Plan information requested by the Director's Representative. Any Contractor who fails to furnish accurate information two days prior to the Project Schedule meeting will be required to provide all resources necessary to execute the updated Project Work Plan based on progress information documented and recorded by the Director's Representative.

#### **1.07 MAINTAINING SCHEDULE**

- A. Perform the Work in accordance with the Project Schedule and providing resources necessary to maintain the progress of activities as scheduled so that no delays are caused to other Contractors engaged in the Work.
1. Should any Contractor fail to maintain progress according to the Project Schedule, or cause delay to another Contractor, that Contractor shall provide such additional manpower, equipment, additional shifts, or other measures, at their own cost, to bring their operations back on schedule.
  2. Performing Work out of sequence with the Project Schedule is not permitted unless written approval is obtained from the Director's Representative prior to commencement.

#### **1.08 RECOVERY WORK PLAN**

- A. Recovery Work Plan: When periodic updates indicate the Work is 15 or more work days behind the approved Baseline Project Schedule's Substantial Completion dates, the Contractors will present recovery options to the Director's Representative to be incorporated into an updated Project Schedule; these include, but are not limited to, allocating additional resources for activity duration reduction or modifying activity sequencing,
- B. Any Contractor failing to furnish recovery options to the Director's Representative for a Recovery Work Plan within 10 calendar-days subsequent to the monthly Project Schedule update will be required to provide all resources necessary to execute an updated Project Work Plan defined by the Director's Representative.
- C. Alterations to the Project Schedule by a Recovery Work Plan will require the approval of the Contractors and the Director's Representative.
- D. Approved alterations to the Project Schedule by a Recovery Work Plan, will constitute the updated Project Schedule.
1. The updated Project Schedule following the implemented Recovery Work Plan will be recognized as the primary baseline schedule for

reporting. The Baseline Project Schedule will be retained as a secondary baseline schedule and will be utilized to measure progress against the alterations.

- E. Recovery Work Plans recognizing early completion will be reviewed by the Director's Representative prior to acceptance of the Project Schedule update.

## **1.09 RESOURCE ASSIGNMENTS**

- A. Resources recognizing the budgeted cost associated with all efforts necessary for the completion of a unique activity within the schedule, and the total cumulative cost of the Work of the Project, are to be assigned by the Contractors. All Contractors are responsible for providing the information necessary for assigning resources for the Baseline Project Work Plan; all Contractors are responsible for reviewing the information.
- B. Resources recognizing the total Labor/Manpower and specialized equipment associated with all efforts necessary for the completion of a unique activity within the Project Work Plan, and the cumulative curve associated with the Work of the Project, are to be assigned concordant with the intended means and methods proposed by the Contractors. All Contractors are responsible for providing the information necessary for assigning resources for the Baseline Project Work Plan; all Contractors are responsible for reviewing the information prior to approval.

## **PART 2 PRODUCTS**

### **2.01 PROJECT WORK PLAN SOFTWARE**

- A. Project Work Plan Software: Project Work Plan software is provided by OGS through the OGS PMS.
- B. Contractors are required to have Internet access to utilize the OGS PMS for all parts of this section.
- C. OGS will provide training for access and use of the OGS PMS. Training will be one hour at a minimum; additional support is available by OGS Scheduling.

## **PART 3 EXECUTION**

### **3.01 PROJECT WORK PLAN**

- A. The Director's Representative and OGS Scheduling will contact the Contractors and setup access to the OGS PMS. Training will be provided once access is setup by OGS Scheduling.

- B. Contractor will develop their Project Work Plan activities and provide information relating to activity naming, duration, predecessors, resources, and budgeted cost on the OGS PMS.
- C. The Contractors Project Work Plan will determine and define activities applicable to the Work of their Contract and the scope of the Project. Activities are to be appropriately placed within the OGS PMS.
- D. Within 15 calendar-days of Project Award, the Contractor's will provide a summary level Baseline Project work plan on the OGS PMS, encompassing the Work of the Project from Project Award through Substantial Completion.
  - 1. Contractors need to complete their summary Project Work Plan two (2) days prior to the initial meeting, in a manner appropriate to the development of the Baseline Project Work Plan. The Contractors will notify the Director's Representative and OGS Scheduling when their information is complete.
  - 2. Contractors will complete remainder of baseline Project Work Plan compliant to the summary level baseline Project Work Plan.
- E. The Project Team will review the Contractors initial Project Work Plan submissions at the Initial Project Schedule meeting and complete the Baseline Project Schedule.
  - 1. The Project Team will recommend tasks or summaries appropriate to planning, scheduling and coordinating, including but not limited to: establishing a focused work breakdown structure (WBS) that aligns with the Contract Documents, phasing requirements, identifying logical connections critical to Substantial completion, accounting for critical submittals or submission, fabrication, and delivery of long-lead materials, products, specialized equipment, or services, and recognizing critical testing, inspection, or commissioning durations for coordination and tracking.
- F. The Baseline Project Schedule is to be approved and the CMU 01 Agreement Form signed within 45 calendar-days of Project Award. Failure to complete the Project Work Plan and sign the CMU 01 Agreement Form will result in non-payment for Work progressing beyond 30 calendar-days subsequent to Project Award.
- G. Updates to the Project Work Plan will be performed concurrent with Project Schedule meetings.

### **3.02 ACTIVITIES**

- A. The Contractors are to provide activities, which adequately represent the coordinating needs of the Project and scope of the Work.
  - 1. Each activity will identify the Contractors' anticipated duration for the activity defined in workdays, and the budgeted cost of the activity.

- B. The Contractors will identify each activity with a unique Activity Name. No Activity Name or Activity ID will be altered after the Baseline Project Schedule has been approved by the Director's Representative.
- C. The Project Team will identify milestones, activities, or summary activities for incorporation into the Baseline or Project Schedule to assist in planning, scheduling, and coordinating the Project.
- D. The calendar utilized by the Baseline and Project Schedule for each activity will be per the direction of OGS Scheduling to accurately reflect anticipated State and Federal holidays as well as work being performed off-hours as defined in the Contract Documents.

### **3.03 BASELINES**

- A. OGS Scheduling will maintain the CMU approved Baseline Project Schedule as the assigned project baseline schedule.

### **3.04 TIME IMPACT AND TIME IMPACT ANALYSIS**

- A. Contractors will represent Time Impact to the Project Work Plan utilizing, at a minimum, a milestone event, an activity for resolution, and related work associated with the impact to the as-updated Work of the Project.
  - 1. Contractors and the Project Team will use the most current Project Work Plan update to prepare the Time Impact representation.
  - 2. If Project Work Plans have not been updated in accordance with this specification, an update must be generated which includes an accurate realization of the Work performed and progressed up to the Time Impact event. Failure to maintain Project Work Plan updates in accordance with this or related specifications will not absolve the Contractors of the responsibility to identify Time Impact as defined at a minimum by this article or the General Conditions.
  - 3. A Request for Time Extension will require Time Impact recognition within the CPM schedule.
  - 4. Time Impact events will be reviewed for accuracy and are to be updated in accordance with relevant new information regarding time for resolution and impact to remaining work on the Project.

**END OF SECTION**



PROJECT NO. \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_

REPORT DATE: \_\_\_\_\_

REPORT NAME(S): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

It is agreed that the Baseline Project Schedule defined by the above listed computer reports has been reviewed and is accepted for use in coordinating, scheduling, and monitoring the work of all related contracts.

FOR CONSTRUCTION WORK CONTRACTOR: \_\_\_\_\_ DATE: \_\_\_\_\_

FOR HVAC WORK CONTRACTOR: \_\_\_\_\_ DATE: \_\_\_\_\_

FOR PLUMBING WORK CONTRACTOR: \_\_\_\_\_ DATE: \_\_\_\_\_

FOR ELECTRICAL WORK CONTRACTOR: \_\_\_\_\_ DATE: \_\_\_\_\_

FOR DIRECTOR'S REPRESENTATIVE: \_\_\_\_\_ DATE: \_\_\_\_\_

## **SECTION 310101**

### **SITE RESTORATION**

#### **PART 1 GENERAL**

##### **1.01 SCOPE**

- A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, equipment and incidentals required to restore the site as specified herein and as shown on the Contract Drawings.
- B. Work will include applying topsoil, fertilizer, seed and mulch for landscaping. The Contractor shall maintain all areas that have been seeded, or planted as specified herein and as shown on the Contract Drawings.
- C. Topsoil shall be obtained from the on-site stockpiles (i.e., created from topsoil stripping) or supplied by an approved off-site location. The Contractor will be responsible for coordinating deliveries and stockpiling of the topsoil. Stockpiles will be placed in approved areas designated by the Director's Representative.
- D. Work will also include restoring the site to conditions existing prior to construction. This includes removing any temporary erosion and sediment control devices (i.e., check dams, silt fence, etc.) placed at the down-gradient end of the project. In addition, damaged (i.e., rutted, cracked) pavement access roadways shall be restored.

##### **1.02 RELATED WORK SPECIFIED ELSEWHERE**

- A. Earthwork: Section 310000.
- B. Erosion and Sediment Control: Section 312513
- C. Site Clearing: Section 311000

##### **1.03 REFERENCES**

- A. Erosion and Sediment Control Guidelines: Conform to the latest edition of "NEW YORK STANDARDS and SPECIFICATIONS for EROSION and SEDIMENT CONTROL" (August 2005) by NYS Department of Environmental Conservation DOW (i.e., Bluebook).
- B. New York State Department of Transportation (NYSDOT) Standard Specifications, latest edition.

#### **1.04 DELIVERY STORAGE AND HANDLING**

- A. Deliver fertilizer in manufacturer's standard size bags or cartons showing weight, analysis, and the name of the manufacturer. Store in accordance with manufacturer's recommendations and as approved by Director's Representative.
- B. Store all seed at the site in a cool dry place in accordance to the manufacturer's recommendations and as approved by the Director's Representative. Replace any seed damaged during storage.

#### **1.05 SCHEDULING**

- A. Fall planting of grass seed is preferred, between September 1, and November 1. For spring planting, planting can begin when ground conditions are suitable, but no later than June 1. Summer planting may be necessary and may require irrigation to establish the seed.

#### **1.06 WARRANTY**

- A. The Contractor shall supply and install all of the required seed mixtures and plants with a minimum one year warranty.

#### **1.07 SUBMITTALS**

- A. Manufacturer's certificate of compliance for seed mix.
- B. Procedure for applying vegetative stabilization
- C. Seeding and fertilizing schedule.
- D. Results of topsoil testing.

### **PART 2 PRODUCTS**

#### **2.01 TOPSOIL**

- A. Topsoil Stripped from project site: All existing topsoil stripped from the project site is acceptable for re-use. However, it should be understood that there is not sufficient topsoil on-site to complete the project and topsoil imported from an approved source will be required to provide the balance of topsoil required.
- B. Imported Topsoil:
  - 1. Topsoil shall be original loam topsoil, well drained homogeneous texture and of uniform grade, without the admixture of subsoil material and entirely free of dense material, hardpan, sod, or any other objectionable foreign material.

2. Topsoil shall have at least 4 percent by weight of fine textured stable organic material, and no greater than 20 percent. Muck soil shall not be considered topsoil.
3. Topsoil shall have at least 20 percent fine textured material (passing the No. 200 sieve) and not more than 15 percent clay.
4. Topsoil treated with soil sterilants or residual herbicides shall not be allowed.
5. Topsoil shall be relatively free of stones over 1-1/2 inches diameter, trash, noxious weeds such as nutsedge and quackgrass, and will have less than 10 percent gravel by volume.
6. Topsoil containing soluble salts greater than 500 parts per million shall not be used.
7. Topsoil shall not be delivered to the site or used while in a frozen or muddy condition. Topsoil as delivered to the site shall have a pH between 6.0 and 7.0. Lime shall be applied and incorporated with the topsoil as indicated by testing and as directed by the Director's Representative before the topsoil is delivered to the working area. The Contractor will be required to retain the services of a third party to complete testing.

## **2.02 FERTILIZER**

- A. Fertilizer shall be standard commercial grade fertilizer meeting the requirements of all State and Federal regulations and standards of the Association of Office Agricultural Chemists. Fertilizer shall be delivered to the site in original, properly labeled, unopened, clean, containers each showing the manufacturer's guaranteed analysis conforming to applicable fertilizer regulations and standards. Fertilizer shall be 5N-10P-10K, unless otherwise specified in the Contract Documents.
- B. Other fertilizers meeting NYSDOT Specification Section 713-03 (Fertilizer) can be used.

## **2.03 SEED**

- A. Seed shall be labeled in accordance with USDA Rules and Regulations under the Federal Seed Act and applicable State seed laws. Seed shall be furnished in sealed bags or containers bearing the date of the last germination, which date shall be within a period of 6 months prior to commencement of seeding operations. No seed shall be used unless properly labeled and no seed shall be used after its date of expiration. Seed shall be from same or from the previous year's crop; each variety of seed shall have a purity of not less than 85%, a percentage of germination not less than 80%, shall have a weed seed content of not more than 1% and contain no noxious weeds. The above percentages are by weight.

- B. The seed shall be furnished and delivered premixed in the proportions specified below. A manufacturer's certificate of compliance to the specified mixes shall be submitted by the manufacturer for each seed mix. These certificates shall include the guaranteed percentages of purity for each type of seed in the mix, weed content, and germination of the seed, and also the net weight and date of shipment. No seed may be sown until the Contractor has submitted the certificates.
- C. Seed mix for permanent seeding shall be Ernst Seed Company (ERNMX-116, Contractor's Lakeview Conservation Mix), or approved equal

- 45% - Perennial Ryegrass
- 30% - Annual Ryegrass
- 12% - Creeping Red Fescue
- 11% - Kentucky Bluegrass
- 2% - White Clover

Seed shall be applied at a minimum rate of 5 pounds per 1,000 square feet (sf).

**2.04 MULCH**

- A. Mulch shall consist of small-grain straw anchored with wood fiber unless otherwise noted.
- B. Straw mulches shall not contain sticks larger than 1/4-inch diameter or other materials which could prevent matting during application. No straw mulch shall be used within 48 hours after cutting. Straw, hay, and salt hay shall be free from mold and other objectionable material and shall be in an air-dry condition suitable for placing with mulch blower equipment.
- C. Wood fiber mulch for anchoring shall be wood cellulose processed into a uniform fibrous physical state. Wood cellulose fiber shall contain a green dye that will provide easy visual inspection for uniformity of the slurry spread. The wood cellulose fiber, including dye, shall contain no growth or germination-inhibiting properties. It shall be manufactured in such a manner that, after addition and agitation in slurry tanks with water, the fibers in the material become uniformly suspended to form a homogeneous material. When sprayed over straw mulch, the material shall allow absorption and percolation of moisture. The manufacturer shall submit a certificate that the wood cellulose fiber meets the following requirements:

<u>Quantity</u>	<u>Specification Limit</u>
Particle Length	0.375 inch maximum
Particle Thickness	0.047 inch maximum
Net Dry Weight Content	minimum stated on bag
pH	4.0 to 8.5
Ash Content	1.6% maximum
Water Holding Capacity	90% minimum

The material shall be delivered in packages of uniform weight and bear the name of the manufacturer, the net weight, and a supplemental statement of net weight content.

- D. Alternative mulches and anchoring materials meeting the requirements of the New York Standards and Specifications for Erosion and Sediment Control may be substituted, subject to approval by the Director's Representative.

## **PART 3 EXECUTION**

### **3.01 SITE RESTORATION**

- A. The Contractor shall restore the site to conditions existing prior to construction. This includes removing the silt fence after final stabilization is achieved, removal of temporary check dams, and removal of excess stockpiled materials (i.e., topsoil, stone, and construction materials).

### **3.02 GRADING**

- A. Rough Grading: Trim and grade lawn areas within the Contract Limit to a level below the finish grades to accommodate the proposed thickness of topsoil shown on the Contract Drawings. Provide smooth uniform transition to adjacent areas.
- B. Finish Grading: Finish surfaces free from irregular surface changes.

### **3.03 SPREADING TOPSOIL**

- A. Perform topsoil spreading operations only during dry weather.
- B. To insure a proper bond with the topsoil, harrow or otherwise loosen the subgrade to a depth of 3 inches before spreading topsoil.
- C. Spread topsoil directly upon prepared subgrade in areas to be seeded. Smooth out unsightly variations, bumps, ridges, and depressions that will hold water. Remove stones, litter, or other objectionable material. Finished surfaces shall conform to the contour lines and elevations indicated on the Contract Drawings or fixed by the Director's Representative.

### **3.04 PREPARATION FOR SEEDING**

- A. Scarify soil to a depth of 2 inches in compacted areas. Smooth out unsightly variations, bumps, ridges, and depressions that will hold water. Remove stones, litter, or other objectionable material.

### **3.05 FERTILIZING**

- A. Apply fertilizer as per manufacturer's recommendations.

### **3.06 SEEDING**

- A. No seeding shall be done on frozen ground or when the temperature is 32°F or lower. Schedules for seeding and fertilizing must be submitted to the Director's Representative for approval prior to beginning the work. Seeding shall be done within 24 hours following soil preparation. Mulch materials shall be applied on seeded areas within 48 hours after seeding.
- B. Before seeding, all gullies, washes, or disturbed areas that develop subsequent to final dressing of topsoil shall be repaired. All areas shall be loosened by discing, harrowing, or other approved methods immediately prior to seeding.
- C. Seeding shall be as per manufacturer's recommendations.
- D. As an alternative to seeding and mulching, hydroseeding may be performed using a mixture of seed (at previously defined application rates) and wood fiber cellulose (at a rate of 2000 pounds per acre). The wood cellulose fiber shall be mixed with water at a maximum rate of 50 pounds of wood cellulose fiber per 100 gallons. The Contractor is responsible for cleaning all structures and paved areas of unwanted deposits of the hydroseed mixture.

### **3.07 MULCHING**

- A. Apply mulch as per manufacturer's recommendations.

### **3.08 MAINTENANCE**

- A. The Contractor shall keep all seeded areas watered and in good condition, reseeding all seeded areas if and when necessary until a good, healthy, uniform growth is established over the entire area seeded as described in Section 3.09 Final Acceptance.

### **3.09 FINAL ACCEPTANCE**

- A. Final acceptance of seeded areas will be granted when a uniform stand of acceptable grass is obtained, with a minimum of 95 percent coverage. Portions of the seeded areas may be accepted at various times at the discretion of the Director's Representative.
- B. Unacceptable seeded areas, dry application: Reseed as specified and fertilized at one-half the specified rate.

**END OF SECTION**

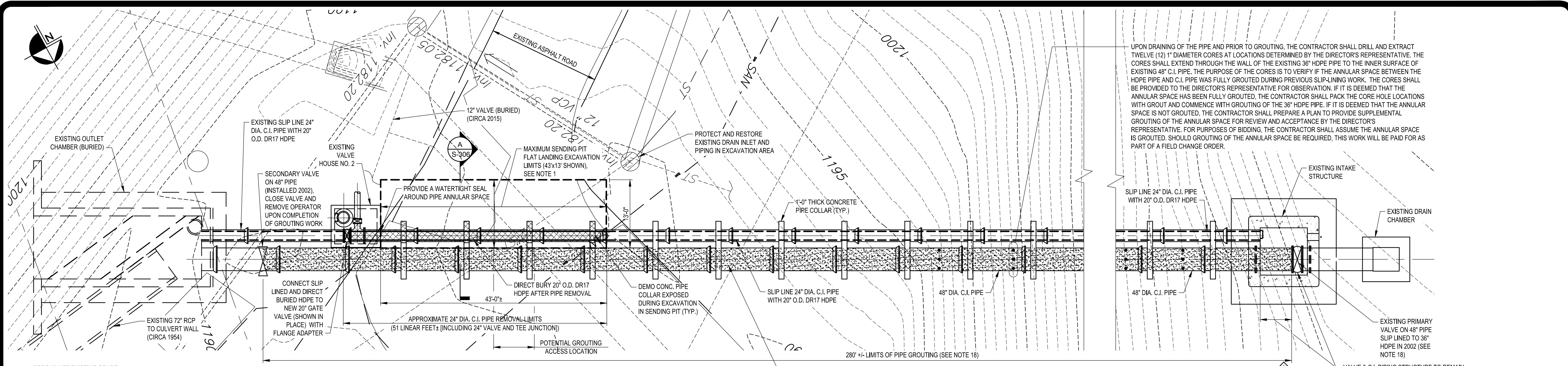
CONSULTANT

**Bergmann**  
associates  
architects // engineers // planners

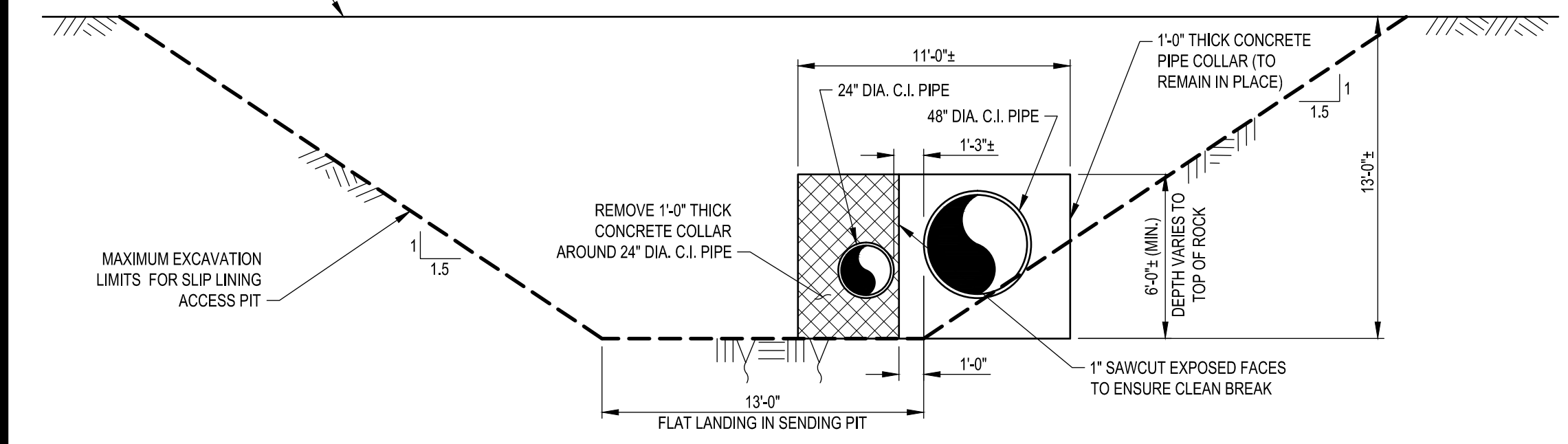
**WARNING:**  
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.



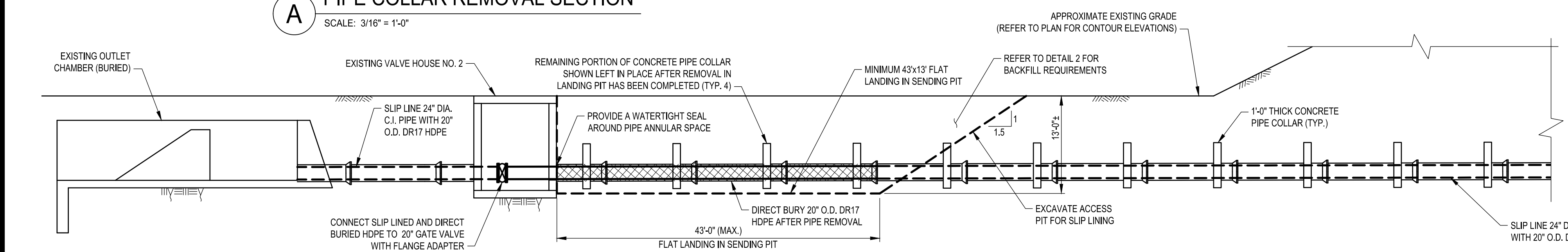
**CONSTRUCTION**  
TITLE: REHABILITATE CLEAR LAKE DAM  
LOCATION: COLLINS CORRECTIONAL FACILITY  
MIDDLE ROAD  
COLLINS, NY  
CLIENT: DEPARTMENT OF CORRECTIONS  
AND COMMUNITY SUPERVISION



PLAN

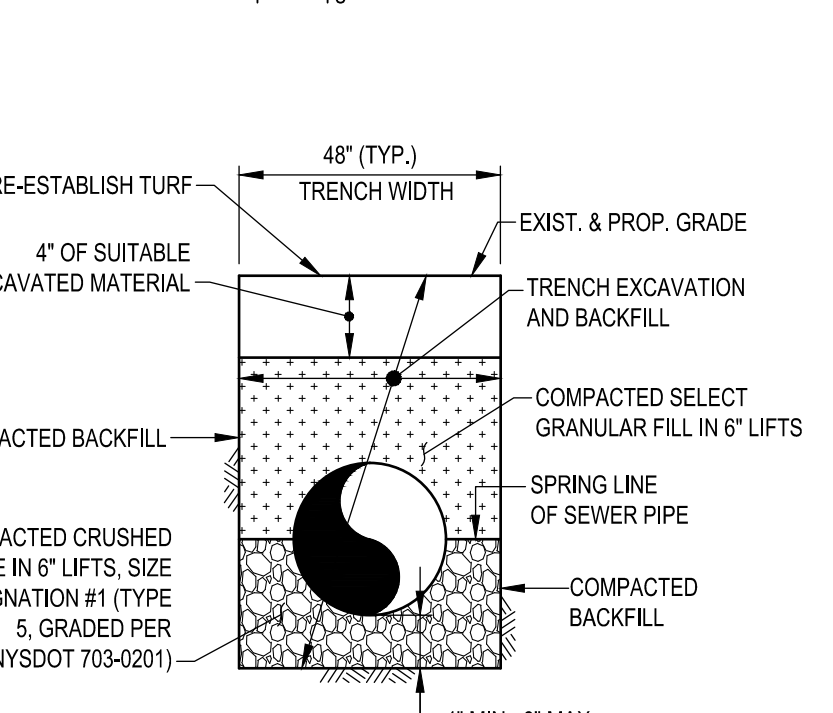
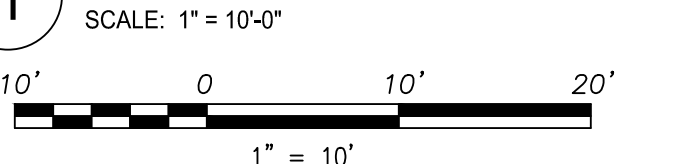


**A** PIPE COLLAR REMOVAL SECTION  
SCALE: 3/16" = 1'-0"

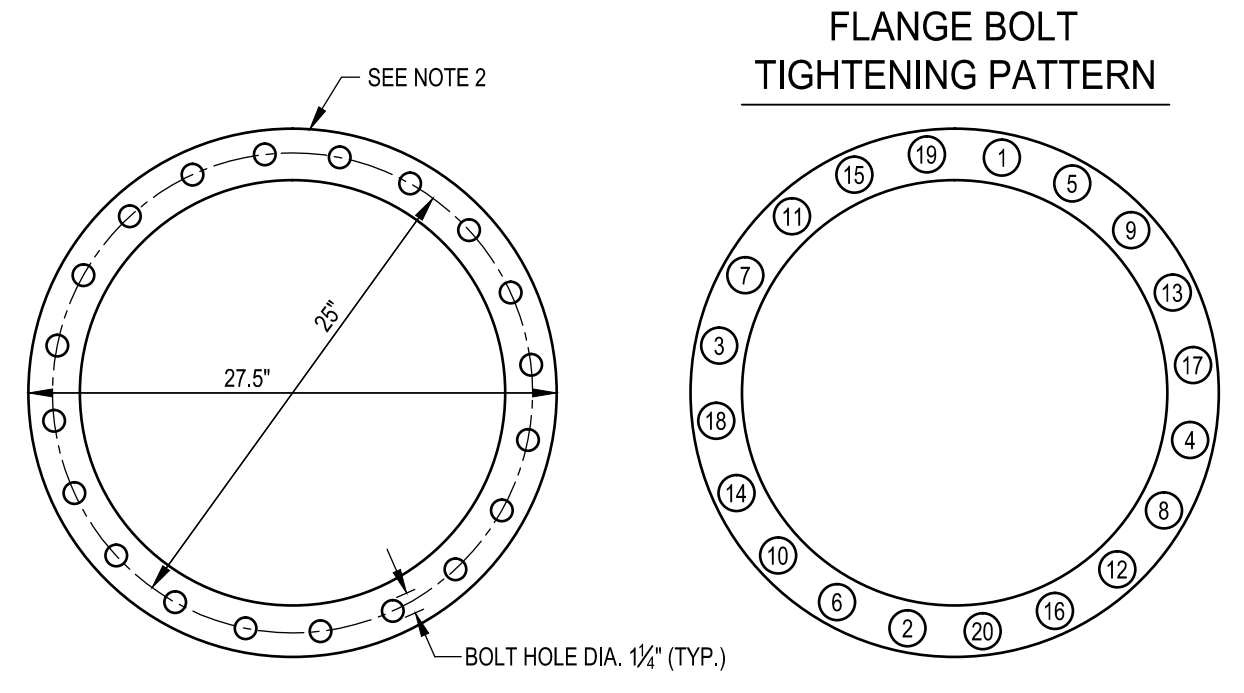


ELEVATION

**1** DEMOLITION AND SLIPLINING PLAN AND ELEVATION

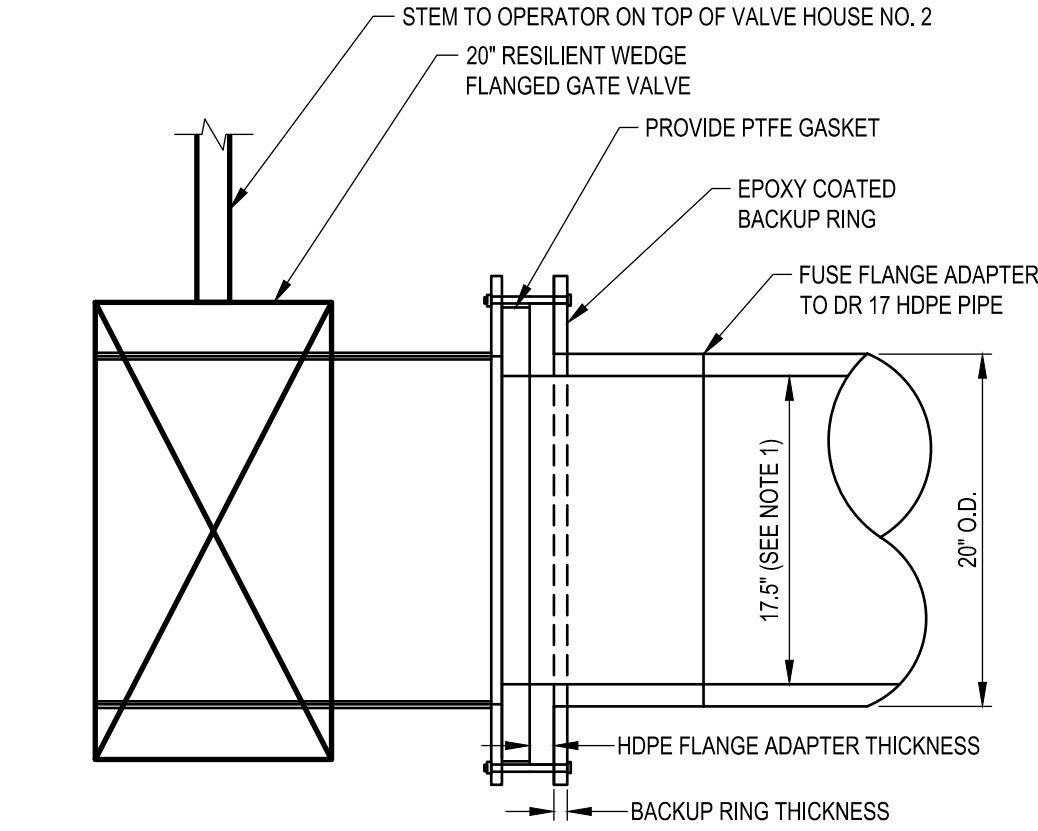


**2** EXCAVATION/BACKFILL/RESTORATION DETAIL  
SCALE: NONE



**3** 20" FLANGE BACKUP RING DETAIL  
SCALE: NONE

FLANGE BOLT TIGHTENING PATTERN



**3** HDPE FLANGE ADAPTER DETAIL  
SCALE: NONE

SECTION

**LEGEND**  
INDICATES LIMITS OF CONCRETE AND 24" DIA. C.I. PIPE REMOVAL

DRAWING NOTES

- THE EXCAVATION SHOWN INCLUDES A 13' WIDE BY 43' LONG FLAT LANDING FOR ACCESS TO REMOVE PIPE SECTIONS AND SLIP LINE HDPE AND GROUT EXISTING 48" DIA. C.I. PIPE. SHIELDS AND SHORING OR A 1.5H:1V LAY BACK SLOPE SHALL BE USED BY THE CONTRACTOR TO REACH THE BOTTOM OF THE 24" DIA. C.I. PIPE AND CONCRETE COLLARS (APPROXIMATELY 13' DEEP). THIS IS ONE ACCEPTABLE EXCAVATION METHOD, CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THE EXCAVATION AND SLIP LINING SAFELY AND IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- UTILITIES IN THE AREA OF THE SENDING PIT EXCAVATION SHALL BE LOCATED, MARKED, AND PROTECTED BY THE CONTRACTOR DURING ANY EXCAVATION. UTILITIES TO REMAIN SHALL BE ADEQUATELY SUPPORTED AS APPROVED BY THE DIRECTOR'S REPRESENTATIVE.
- PORTIONS OF THE CONCRETE COLLARS AROUND THE 24" DIA. C.I. PIPE SHALL BE REMOVED IN THE EXCAVATION SENDING PIT, THE PORTION OF COLLARS AROUND THE 48" DIA. C.I. PIPE SHALL REMAIN, SAWCUT A MINIMUM OF 1" DEEP TO KEEP A CLEAN EDGE ALONG THE PORTION OF COLLAR TO REMAIN.
- IN VALVE HOUSE NO. 2 REMOVE THE VALVE AND 24" DIA. C.I. PIPE BETWEEN THE VALVE AND UPSTREAM VAULT WALL, THE EXISTING PIPE THROUGH THE VALVE HOUSE WALL CAN REMAIN. THE CONTRACTOR SHALL GROUT THE ANNULAR SPACE THROUGH THE VALVE HOUSE WALL WITH A WATERTIGHT GROUT OR PIPE BOOT TO KEEP WATER OUT OF THE VAULT.
- SLIP LINE TO THE DOWNSTREAM LIMITS SHOWN (APPROXIMATELY 34 LINEAR FEET) PER MANUFACTURER RECOMMENDATIONS.
- PROVIDE FLANGE ADAPTER AND 20" VALVE IN VALVE HOUSE #2.
- SLIP LINE UPSTREAM TO THE INTAKE STRUCTURE (APPROXIMATELY 210 LINEAR FEET)
- PROVIDE DIRECT BURIED 20" O.D. DR17 HDPE AND FLANGE ADAPTER ON UPSTREAM SIDE OF THE VALVE IN VALVE HOUSE #2.
- CONDUCT PIPE TESTING PRIOR TO BACKFILLING, BACKFILL THE OPEN EXCAVATION PER PIPE TRENCH DETAIL 2 ON THIS SHEET.
- FOR STAGING AND SEQUENCING NOTES AND GENERAL NOTES RELATING TO INTAKE STRUCTURE AND VALVE HOUSE NO. 2 SYSTEM, SEE DRAWING S-104.
- SEE DRAWING S-104 FOR STAGE 1 WORK, SEE DRAWING S-304 FOR STAGE 2 AND STAGE 3 WORK, SEE DRAWING S-305 FOR STAGE 4 WORK, SEE DRAWING S-307 FOR ADDITIONAL SECTIONS AND DETAILS.
- THE CONDITION OF THE 24" DIA. CAST IRON PIPE IS UNKNOWN, IMMEDIATELY AFTER DEWATERING THE INTAKE STRUCTURE WET WELL, THE CONTRACTOR SHALL PERFORM A CCTV INSPECTION OF THE PIPE, UNDER THE OBSERVATION OF THE DIRECTOR'S REPRESENTATIVE, TO DETERMINE THE EXTENT OF CLEANING OR REPAIRS NECESSARY TO PERFORM SLIP LINING.
- IF SIGNIFICANT TUBERCULATION OF THE 24" DIA. CAST IRON PIPE IS NOTED, THE CONTRACTOR SHALL USE AN ABRASIVE MATERIAL TO CLEAN THE PIPE PRIOR TO SLIP LINING IN ACCORDANCE WITH HDPE PIPE MANUFACTURER RECOMMENDATIONS. THE HOST PIPE SHALL BE CCTV INSPECTED UNDER THE OBSERVATION OF THE DIRECTOR'S REPRESENTATIVE AFTER CLEANING AND PRIOR TO SLIP LINING.
- THE CONTRACTOR SHALL PROVIDE DVD COPIES OF A POST SLIP LINE INSTALLATION CCTV INSPECTION OF THE SEWER TO THE DIRECTOR'S REPRESENTATIVE.
- SPACERS ON SLIP LINED PIPE SHALL BE SECURELY FASTENED TO THE HDPE PIPE AT REGULAR INTERVALS NO LONGER THAN MANUFACTURERS RECOMMENDATIONS FOR THE PIPE SIZE AND WEIGHT.
- THE MINIMUM DIMENSIONS OF THE EXCAVATION PIT MAY REQUIRE THE PIPE FUSION MACHINE TO BE LOWERED INTO THE EXCAVATION PIT, THE CONTRACTOR MAY DECIDE TO FUSE THE ENTIRE LENGTH OF PIPE OUTSIDE OF THE EXCAVATION PIT AND OPEN A LARGER EXCAVATION TO PULL THE PIPE INTO THE HOST PIPE, ANY PLAN WHICH DEVIATES FROM WHAT IS SHOWN ON THESE PLANS MUST BE APPROVED BY THE DIRECTOR'S REPRESENTATIVE.
- CONDUCT CCTV INSPECTION OF THE HDPE PIPE AFTER SLIP LINING THE 24-INCH DIA. OUTLET PIPE.
- PROVIDE NON-SHRINK GROUT MATERIAL AND SUBMIT GROUTING PLAN FOR REVIEW IN ACCORDANCE WITH SPECIFICATION 330130.72. A PREVIOUS CCTV INSPECTION OF THE PIPE NOTED LEAKAGE AT THE EXISTING UPSTREAM (PRIMARY) VALVE. THE CCTV VIDEO CAN BE PROVIDED UPON REQUEST.

Apr 20, 2017 - 4:35pm I:\065\010056.00 NYS\_OGS - REHABILITATE CLEAR LAKE DAM v4.0 Drawings v4.4 Navigation\448845-306 intake mod lms -4.dwg 36x24 PLOT SHEET

INTAKE STRUCTURE MODIFICATIONS - 4 SECTIONS AND DETAILS-3

DRAWING NUMBER: S-306  
SHEET 28 OF 32