



# FLORIDA DEPARTMENT OF Environmental Protection

Northwest District  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5794

**Ron DeSantis**  
Governor

**Jeanette Nuñez**  
Lt. Governor

**Shawn Hamilton**  
Secretary

July 13, 2023

Florida Fish and Wildlife Conservation Commission  
c/o Katherine Burke  
620 Meridian Street  
Tallahassee, FL 32399  
[katherine.burke@myfwc.com](mailto:katherine.burke@myfwc.com)

File No.: 354059-006-SFG-57

Dear Mrs. Burke:

On June 23, 2023, we received your notice of intent to use a General Permit (GP), pursuant to Rule 62-331.210, Florida Administrative Code (F.A.C.), to repair and replace the existing log bridge and associated protecting riprap within the landward extent of Blackwater Bay/Yellow River Marsh, a Class II, Outstanding Florida Waterbody. Authorized activities are depicted on the attached exhibits.

The activities authorized by this permit are located at Choctaw Field Road, Navarre, Florida 32566, in Sections 19, Township 01 South, Ranges 27 West, Santa Rosa County.

Your intent to use a general permit has been reviewed by Department staff for State 404 Program authorization. **Your project qualifies for authorization.** However, this letter does not relieve you from the responsibility of obtaining other federal, state, or local authorizations that may be required for the activity.

### **State 404 Program Review – Approved**

Based on the forms, drawings, and documents submitted with your notice, it appears that the project meets the requirements for the General Permit under Rule 62-331.210, F.A.C. Any activities performed under a general permit are subject to general conditions required in Rule 62-331.201, F.A.C., the conditions of Rule 62-331.210, F.A.C. (attached), and any specific conditions, below. Any deviations from these conditions may subject the permittee to enforcement action and possible penalties. Please read each section carefully.

Please be advised that the construction phase of the GP must be completed by December 22, 2025. State 404 Program permits cannot be extended or renewed.

## Specific Conditions

1. This permit authorizes hydrologic restoration and low water crossing instillation, as shown on the attached permit drawings. Signs will be placed outside the to be restored roads prohibiting recreational access, and allow the habitat to restore to a natural state.
2. The permittee shall be responsible for ensuring that erosion control devices/procedures are inspected and maintained daily during all phases of construction authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.
3. Any damage to wetlands outside of the authorized impact areas as a result of construction shall be immediately reported to the Department at (850)595-8300 and repaired by reestablishing the preconstruction elevations and replanting vegetation of the same species, size, and density as that in the adjacent areas. The restoration shall be completed within 30 days of completion of construction, and the Department shall be notified of its completion within that same 30-day period.
4. Best management practices for erosion control shall be implemented prior to construction commencement and shall be maintained at all times during construction to prevent siltation and turbid discharges in excess of State water quality standards pursuant to Rule 62-302, F.A.C. Methods shall include, but not limited to the use of staked haybales, staked filter cloth, sodding, seeding, staged construction and the installation of turbidity screens around the immediate project site.
5. Prior to construction, the limits of the proposed impact areas shall be clearly flagged and staked by the agent and/or contractor. All construction personnel shall be shown the location(s) of all wetland areas outside of the construction to prevent encroachment from heavy equipment into these areas.
6. Construction equipment shall not be repaired or refueled in wetlands or elsewhere within waters of the state.
7. There shall be no stock piling of tools, materials, (i.e., lumber, pilings, riprap, and debris) within wetlands, along the shoreline within the littoral zone, or elsewhere within waters/waters of the state.
8. All cleared vegetation, excess lumber, scrap wood, trash, garbage and any other type of debris shall be removed from wetlands/waters of the state within 14 days of completion of the work authorized in this permit.
9. All fill area, fill slopes, and disturbed upland areas shall be stabilized at all time during and after construction so as to time during and after construction so as to prevent any erosion, sedimentation, siltation, or scouring.

### **Additional Information**

Please retain this general permit. The activities may be inspected by authorized state personnel in the future to ensure compliance with appropriate statutes and administrative codes. If the activities are not in compliance, you may be subject to penalties under Chapter 373, F.S., and Chapter 18-14, F.A.C.

### **NOTICE OF RIGHTS**

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the subsequent order may modify or take a different position than this action.

#### Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the

Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at [Agency\\_Clerk@dep.state.fl.us](mailto:Agency_Clerk@dep.state.fl.us). Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

#### Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62- 110.106(10)(a).

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver will not apply to persons who have not received written notice of this action.

#### Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399- 3000, or via electronic correspondence at [Agency\\_Clerk@dep.state.fl.us](mailto:Agency_Clerk@dep.state.fl.us), before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

#### Mediation

Mediation is not available in this proceeding.

#### FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

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### Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

### EXECUTION AND CLERKING

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



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Russell Sullivan  
Environmental Manager

### Enclosures:

62-331.210,F.A.C., 1 page

General Conditions for All General Permits, Ch. 62-331.201, F.A.C.

Project drawings, 34 pages

Certification of Compliance with State 404 Program General Permit, [form 62-331.200\(1\)](#)

### CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

Kimberly R. Allen, DEP, [Kim.Allen@FloridaDEP.gov](mailto:Kim.Allen@FloridaDEP.gov)

Blake Chapman, DEP, [Blake.A.Chapman@FloridaDEP.gov](mailto:Blake.A.Chapman@FloridaDEP.gov)

Russell Sullivan, DEP, [Russell.Sullivan@FloridaDEP.gov](mailto:Russell.Sullivan@FloridaDEP.gov)

Dylan Garrett, DEP, [Michael.D.Garrett@FloridaDEP.gov](mailto:Michael.D.Garrett@FloridaDEP.gov)

Katherine Burke, Applicant, [Katherine.burke@myfwc.com](mailto:Katherine.burke@myfwc.com)

Ben Lennon, Agent, [blennon@drmp.com](mailto:blennon@drmp.com)

Aaron Sarchet, Agent, [asarchet@felsi.org](mailto:asarchet@felsi.org)

Santa Rosa County, [PlanningNotifications@santarosa.fl.gov](mailto:PlanningNotifications@santarosa.fl.gov), [cindym@santarosa.fl.gov](mailto:cindym@santarosa.fl.gov),

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U.S. Environmental Protection Agency, [State404FinalPermits-Florida@epa.gov](mailto:State404FinalPermits-Florida@epa.gov)

**FILING AND ACKNOWLEDGMENT**

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



\_\_\_\_\_  
Clerk

July 13, 2023

Date

**62-331.210 General Permit for Maintenance or Removal.**

(1) This general permit authorizes the following activities:

(a) The repair, rehabilitation, or replacement of any previously authorized, currently serviceable structure or fill, or of any currently serviceable structure or fill authorized by 33 CFR §330.3 as of July 1, 2019, incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12074>), provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most recently authorized modification. Minor deviations in the structure's configuration or filled area, including those due to changes in materials, construction techniques, requirements of other regulatory agencies, or current construction codes or safety standards that are necessary to make the repair, rehabilitation, or replacement are authorized.

(b) The removal of previously authorized structures or fills. Any stream channel modification is limited to the minimum necessary for the repair, rehabilitation, or replacement of the structure or fill; such modifications, including the removal of material from the stream channel, must be immediately adjacent to the project.

(c) The removal of accumulated sediment and debris within, and in the immediate vicinity of, the structure or fill.

(d) The repair, rehabilitation, or replacement of those structures or fills destroyed or damaged by storms, floods, fire or other discrete events, provided the repair, rehabilitation, or replacement is commenced, or is under contract to commence, within two years of the date of their destruction or damage. In cases of catastrophic events, such as hurricanes or tornadoes, this two-year limit may be waived by the Agency, provided the permittee can demonstrate funding, contract, or other similar delays.

(e) The removal of accumulated sediments and debris outside the immediate vicinity of existing structures (e.g., bridges, culverted road crossings, water intake structures, etc.). The removal of sediment is limited to the minimum necessary to restore the waterway in the vicinity of the structure to the approximate dimensions that existed when the structure was built but cannot extend farther than 200 feet in any direction from the structure. This 200-foot limit does not apply to maintenance dredging to remove accumulated sediments blocking or restricting outfall and intake structures. All dredged or excavated materials must be deposited and retained in an area that has no state-assumed waters unless otherwise specifically approved by the Agency under separate authorization.

(f) Temporary structures, fills, and work, including the use of temporary mats, necessary to conduct the maintenance activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and fill, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. After conducting the maintenance activity, temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated.

(2) This general permit does not authorize:

(a) Beach restoration.

(b) New stream channelization or stream relocation projects.

(c) Maintenance or removal of projects that capture and store water, such as Dispersed Water Management Projects (DWMPs).

(3) Notice of intent to use this general permit is required for activities authorized by paragraph (1)(e). The notice must include information regarding the original design capacities and configurations of the outfalls, intakes, and small impoundments.

**Editor notes: The effective date of the rule will be the effective date of assumption, which is the date identified by EPA as published in the Federal Register §373.4146, F.S.**

*Rulemaking Authority 373.026(7), 373.043, 373.118(1), 373.4131, 373.414(9), 373. 373.4145, 373.4146(2), 403.805(1) FS. Law Implemented 373.118, 373.129, 373.136, 373.413, 373.4131, 373.414, 373.4145, 373.4146, 373.416, 373.422, 373.423, 373.429 FS. History—New 12-22-20.*

### **Conditions for General Permits – Rule 62-331.201, F.A.C.**

(1) General permits shall be subject to the conditions in subsections (2) and (3), below, and the general conditions for all general permits in Rule 62-330.405, F.A.C., except subsections 62-330.405(7) and (10), F.A.C. The Agency may revise the general conditions in Rule 62-330.405, F.A.C. to include references to applicable rules under this Chapter, as necessary.

(2) When a project requires submittal of a notice of intent to use a general permit, the Agency shall impose specific conditions as necessary to assure that the activities will be conducted in compliance with this Chapter, and in a manner which minimizes adverse impacts upon the physical, chemical, and biological integrity of wetlands or other surface waters, such as mitigation, monitoring, reporting, or recordkeeping requirements and protection measures for listed species or historical resources.

(3) In addition, general permits under this Chapter are subject to the following conditions:

(a) Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing shall be designed and constructed to minimize adverse effects to aquatic life movements.

(b) Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

(c) Migratory Bird Breeding Areas. Activities in state-assumed waters that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

(d) Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by general permits in Rule 62-331.211 or 62-331.244, F.A.C., or is a shellfish seeding or habitat restoration activity authorized by the general permit in Rule 62-331.225, F.A.C.

(e) Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or fill must be free from toxic pollutants in toxic amounts as listed in section 307 of the CWA, which is incorporated by reference in subparagraph 62-331.053(3)(a)3., F.A.C., or state law.

(f) Water Supply Intakes. No activity may occur within 1000 feet of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

(g) Fills Within 100-year Floodplains. The activity shall comply with applicable FEMA-approved state or local floodplain management requirements.

(h) Single and Complete Project. The activity must be a single and complete project. The same general permit cannot be used more than once for the same single and complete project unless otherwise stated within the general permit. (See 404 Handbook, section 3.2.1).

(i) Wild and Scenic Rivers. No general permit activity may occur in a component of the National Wild and Scenic Rivers System, or in a river officially designated by Congress as a study river for possible inclusion in the System while the river is in an official study status, unless the appropriate federal agency with direct management responsibility for such river has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

(j) Tribal Rights. No general permit activity may cause more than minimal adverse effects on tribal rights (including treaty rights, settlement rights, or rights reserved under state or federal law), protected tribal resources (including cultural or burial resources off reservation), tribal waters, or to tribal lands.

(k) Listed species. No activity is authorized under any general permit which is likely to directly or indirectly jeopardize the continued existence of an endangered or threatened species or a species proposed for such designation, or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any general permit which may affect a listed species or critical habitat, unless the Agency has consulted with, or been provided technical assistance by the Florida Fish & Wildlife Conservation Commission, the U.S. Fish & Wildlife Service, and the National Marine Fisheries Service under their respective authorities and appropriate measures to address the effects of the proposed activity have been implemented or are required as a specific condition to the general permit.

(l) Migratory Birds and Bald and Golden Eagles. The permittee is responsible for ensuring their action complies with the Migratory Bird Treaty Act, 16 U.S.C. §§ 703 – 712 (2018), incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12068>), and the Bald and Golden Eagle Protection Act, 16 U.S.C. §§ 668 – 668(d) (2018), incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12069>). The permittee is responsible for contacting the appropriate local office of the U.S. Fish and Wildlife Service to determine applicable measures to reduce impacts to migratory birds or eagles, including whether incidental take permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

(m) Historic Properties. In cases where the Agency determines, based on information from SHPO, that the activity may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized until a determination of “no effect” or “no adverse effect” is provided by SHPO.

(n) Manatees. In waters that are accessible to manatees, the permittee shall follow the “Standard Manatee Conditions for In-Water Work (2011)”, incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12070>).

(o) Sea turtles, smalltooth sawfish, Gulf sturgeon, or shortnose sturgeon. In waters that are accessible to these species, the permittee shall follow the “Sea Turtle and Smalltooth Sawfish Construction Conditions” (March 23, 2006), incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12071>).

(p) Use of Multiple General Permits. The use of more than one general permit under this Chapter for a single and complete project is prohibited, except when specified within a specific general permit, or when the acreage loss of state-assumed waters authorized by the general permits does not exceed the acreage limit of the general permit with the highest specified acreage limit.

(q) Transfer of General Permit Verifications. If the permittee sells the property associated with the general permit verification, the permittee shall transfer the general permit verification to the new owner by submitting a completed Form 62-331.100(1) – “Transfer of State 404 Program General Permit Verification” (effective date), incorporated by reference in subsection 62-331.100(2), F.A.C., within 30 days of the sale, to the Agency that processed the original notice.

(r) Compliance Certification. Each permittee who receives a general permit verification letter under this Chapter must submit a completed Form 62-331.200(1) – “Certification of Compliance with a State 404 Program General Permit” (effective date), incorporated by reference in subsection 62-331.200(4), F.A.C., within 30 days of completion of the authorized activity, or the implementation of any required compensatory mitigation, whichever is later.

(s) Activities Affecting Structures or Work Built by the United States. If an activity also requires permission from the Corps pursuant to 33 U.S.C. § 408 because it will alter or temporarily or permanently occupy or use a Corps federally authorized Civil Works project, the prospective permittee is responsible for obtaining such permission separately from the Corps prior to commencing activities authorized by the general permit.

(t) If during the ground disturbing activities and construction work within the permit area, there are archaeological or cultural materials encountered which were not the subject of a previous cultural resources assessment survey or to which such impacts were not anticipated, including but not limited to pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement; the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Agency within the same business day. The Agency shall then notify the State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) or tribe when the interested tribe does not have a THPO, to assess the significance of the discovery and devise appropriate actions.

(u) Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries or effects to historic properties as referenced in accordance with condition (t), above, and if deemed necessary by the SHPO, or THPO(s), Tribes, or Agency. Based on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Agency may modify, suspend, or revoke the permit in accordance with Rule 62-331.080, F.A.C. Such activity shall not resume without written authorization from the SHPO and THPO(s), or tribe when the interested tribe does not have a THPO, concerning potential effects to cultural resources or historic properties for finds under their jurisdiction, and from the Agency.

(v) In the event that unmarked human remains are identified, they shall be treated in accordance with Section 872.05, F.S. All work and ground-disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Agency, and State Archaeologist within the same business day. The Agency shall then notify the appropriate SHPO and THPO(s) and appropriate tribes and other appropriate consulting parties. Based on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Agency may modify, suspend, or revoke the permit in accordance with Rule 62-331.080, F.A.C. Such activity shall not resume without written authorization from the medical examiner, State Archaeologist, and from the Agency. Additionally, if the unmarked remains were identified on federal lands, or lands where the Archaeological Resources Protection Act, 16 U.S.C. §§ 470aa – 470mm (2018), incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12072>), or the Native American Graves Protection Repatriation 25 U.S.C. §§ 3001-3013 (2018), incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12073>), applies, such activity shall not resume without written authorization from the SHPO, the appropriate THPO(s), and the federal land manager.

(w) Noncompliance. The permittee shall timely notify the Agency of any expected or known actual noncompliance.

(x) Inspection and entry. The permittee shall allow the Agency, upon presentation of proper identification, at reasonable times to:

1. Enter upon the permittee's premises where a regulated activity is located or where records must be kept under the conditions of the permit,
2. Have access to and copy any records that must be kept under the conditions of the permit,
3. Inspect operations regulated or required under the permit, and
4. Sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

(y) The permittee shall comply with all conditions of the permit, even if that requires halting or reducing the permitted activity to maintain compliance. Any permit violation constitutes a violation of Part IV of Chapter 373, F.S., and this Chapter, as well as a violation of the CWA.

(z) The permittee shall take all reasonable steps to prevent any unauthorized dredging or filling in violation of this permit.

(aa) Upon Agency request, the permittee shall provide information necessary to determine compliance status, or whether cause exists for permit modification, revocation, or termination.

*Rulemaking Authority 373.026(7), 373.043, 373.118(1), 373.4131, 373.414(9), 373.4145, 373.4146(2), 403.805(1) FS. Law Implemented 373.118, 373.129, 373.136, 373.413, 373.4131, 373.414, 373.4145, 373.4146, 373.416, 373.422, 373.423, 373.429 FS. History – New 12.22.2020.*

### **62-330.405 General Conditions for All General Permits.**

The following general permit conditions are binding upon the permittee and are enforceable under chapter 373, F.S. These conditions do not apply to the general permit for stormwater management systems under section 403.814(12), F.S

(1) The general permit is valid only for the specific activity indicated. Any deviation from the specified activity and the conditions for undertaking that activity shall constitute a violation of the permit and may subject the permittee to enforcement action and revocation of the permit under chapter 373, F.S

(2) The general permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any construction, alteration, operation, maintenance, removal or abandonment authorized by this permit; and it does not authorize any violation of any other applicable federal, state, local, or special district laws (including, but not limited to, those governing the “take” of listed species).

(3) The general permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the general permit.

(4) The general permit does not relieve the permittee from liability and penalties when the permitted activity causes harm or injury to: human health or welfare; animal, plant or aquatic life; or property. It does not allow the permittee to cause pollution that violates state water quality standards.

(5) Section 253.77, F.S., provides that a person may not commence any excavation, construction, or other activity involving the use of state-owned or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required consent, lease, easement, or other form of authorization authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on state-owned lands.

(6) The authorization to conduct activities under a general permit may be modified, suspended or revoked in accordance with chapter 120, F.S., and section 373.429, F.S.

(7) Not applicable.

(8) Upon reasonable notice to the permittee, Agency staff with proper identification shall have



permission to enter, inspect, sample and test the permitted system to ensure conformity with the plans and specifications approved by the general permit.

(9) The permittee shall maintain any permitted project or activity in accordance with the plans submitted to the Agency and authorized in the general permit.

(10) Not applicable.

(11) Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be implemented and maintained immediately prior to, during, and after construction as needed to stabilize all disturbed areas, including other measures specified in the permit to prevent adverse impacts to the water resources and adjacent lands. Erosion and sediment control measures shall be installed and maintained in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007)*, available at <https://www.flrules.org/Gateway/reference.asp?No=Ref-04227>, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008)*, available at [http://publicfiles.dep.state.fl.us/DEAR/Stormwater\\_Training\\_Docs/erosion-inspectors-manual.pdf](http://publicfiles.dep.state.fl.us/DEAR/Stormwater_Training_Docs/erosion-inspectors-manual.pdf).

(12) Unless otherwise specified in the general permit, temporary vehicular access within wetlands during construction shall be performed using vehicles generating minimum ground pressure to minimize rutting and other environmental impacts. Within forested wetlands, the permittee shall choose alignments that minimize the destruction of mature wetland trees to the greatest extent practicable. When needed to prevent rutting or soil compaction, access vehicles shall be operated on wooden, composite, metal, or other non-earthen construction mats. In all cases, access in wetlands shall comply with the following:

(a) Access within forested wetlands shall not include the cutting or clearing of any native wetland tree having a diameter four inches or greater at breast height;

(b) The maximum width of the construction access area shall be limited to 15 feet;

(c) All mats shall be removed as soon as practicable after equipment has completed passage through, or work has been completed, at any location along the alignment of the project, but in no case longer than seven days after equipment has completed work or passage through that location; and

(d) Areas disturbed for access shall be restored to natural grades immediately after the maintenance or repair is completed.

(13) Barges or other work vessels used to conduct in-water activities shall be operated in a manner that prevents unauthorized dredging, water quality violations, and damage to submerged aquatic communities.

(14) The construction, alteration, or use of the authorized project shall not adversely impede navigation or create a navigational hazard in the water body.

(15) Except where specifically authorized in the general permit, activities must not:

(a) Impound or obstruct existing water flow, cause adverse impacts to existing surface water storage and conveyance capabilities, or otherwise cause adverse water quantity or flooding impacts to receiving water and adjacent lands; or

(b) Cause an adverse impact to the maintenance of surface or ground water levels or surface water flows established pursuant to section 373.042, F.S., or a Works of the District established pursuant to section 373.086, F.S.

(16) If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05, F.S.

(17) The activity must be capable, based on generally accepted engineering and scientific principles, of being performed and of functioning as proposed, and must comply with any applicable District special basin and geographic area criteria.

(18) The permittee shall comply with the following when performing work within waters accessible to federally- or state-listed aquatic species, such as manatees, marine turtles, smalltooth sawfish, and Gulf sturgeon:

(a) All vessels associated with the project shall operate at "Idle Speed/No Wake" at all times while in the work area and where the draft of the vessels provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

(b) All deployed siltation or turbidity barriers shall be properly secured, monitored, and maintained to prevent entanglement or entrapment of listed species.

(c) All in-water activities, including vessel operation, must be shut down if a listed species comes within 50 feet of the work area. Activities shall not resume until the animal(s) has moved beyond a 50-foot radius of the in-water work, or until 30 minutes elapses since the last sighting within 50 feet. Animals must not be herded away or harassed into leaving. All onsite project personnel are responsible for observing water-related activities for the presence of listed species.

(d) Any listed species that is killed or injured by work associated with activities performed shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1(888)404-3922 and ImperiledSpecies@myFWC.com.

(e) Whenever there is a spill or frac-out of drilling fluid into waters accessible to the above species during a directional drilling operation, the FWC shall be notified at ImperiledSpecies@myfwc.com with details of the event within 24 hours following detection of the spill or frac-out.

(19) The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any activity authorized by the general permit.

(20) The permittee shall immediately notify the Agency in writing of any submitted information that is discovered to be inaccurate.

*Rulemaking Authority 373.026(7), 373.043, 373.118(1), 373.406(5), 373.4131, 373.414(9), 373.4145, 373.418, 403.805(1) FS. Law Implemented 373.044, 373.118(1), 373.129, 373.136, 373.406(5), 373.413, 373.4131, 373.414(9), 373.4145, 373.416, 373.422, 373.423, 373.429, 403.814(1) FS. History—New 10-3-95, Amended 10-1-07, Formerly 62-341.215, Amended 10-1-13, 6-1-18.*

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## Certification of Compliance with a State 404 Program General Permit

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Instructions: To be completed, executed, and submitted to the Agency within 30 days of completion of the authorized activity.

Permit No: \_\_\_\_\_ Permittee's Name: \_\_\_\_\_

Permittee's Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Location of the Work: \_\_\_\_\_

Date Work Started: \_\_\_\_\_ Date Work Completed: \_\_\_\_\_

PROPERTY IS INACCESSIBLE WITHOUT PRIOR NOTIFICATION: YES      NO  
TO SCHEDULE AN INSPECTION, PLEASE CONTACT                      AT

Description of the Work (e.g., bank stabilization, residential or commercial filling, docks, dredging, etc.):

Acreeage or Square Feet of Impacts to state-assumed waters:

Describe Mitigation completed (if applicable):

Describe any Deviations from Permit (attach drawing(s) depicting the deviations):

I certify that all work, and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date:

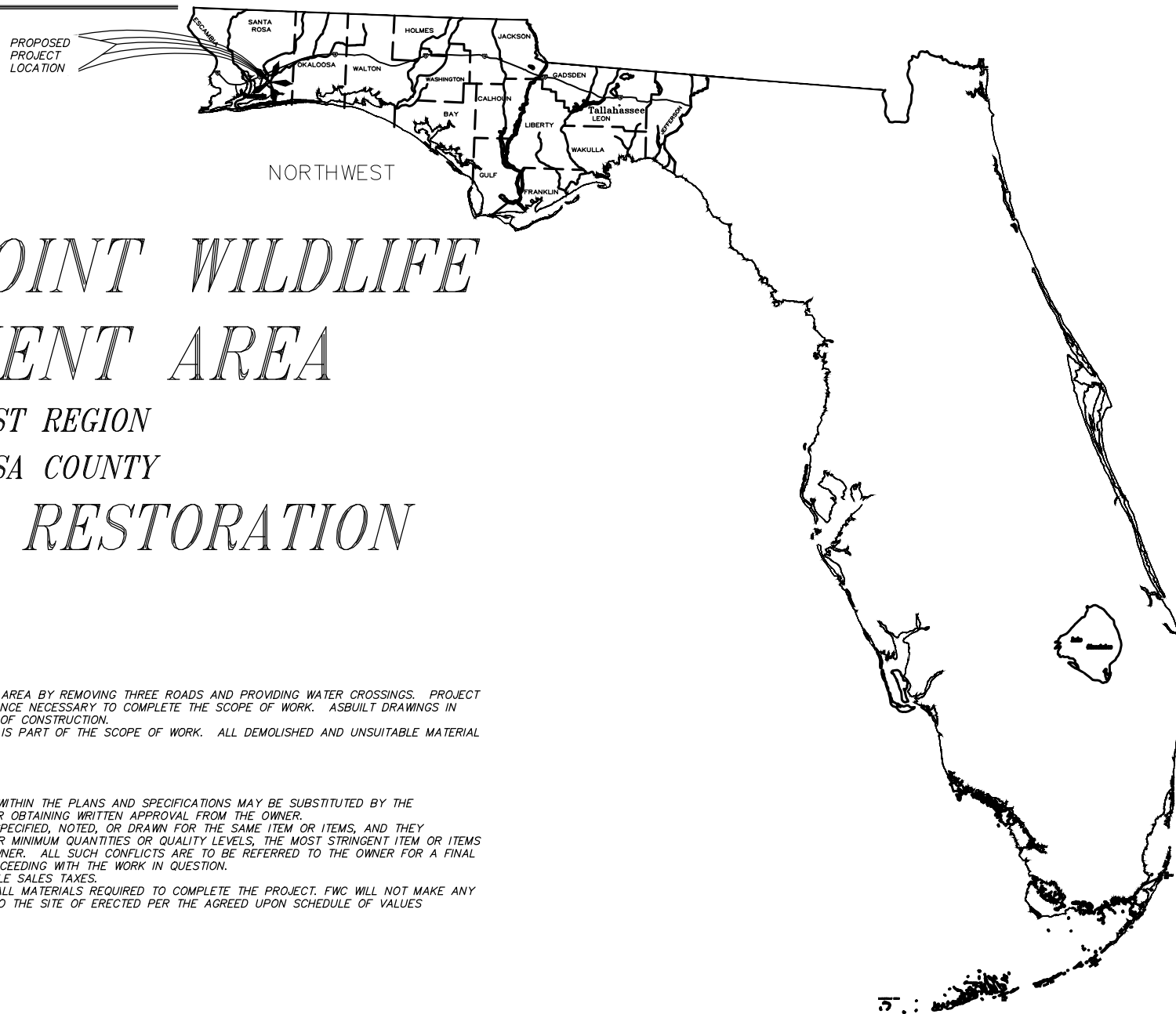
\_\_\_\_\_  
Name and Title

Enclosures:

- Attached drawing(s) depicting deviations from the permit (if any)  
 Other

30.566183° N  
 87.027700° W  
 S18 T1S R27W  
 USGS QUAD NAME: MILTON  
 PARCEL ID: 141S280000016000000

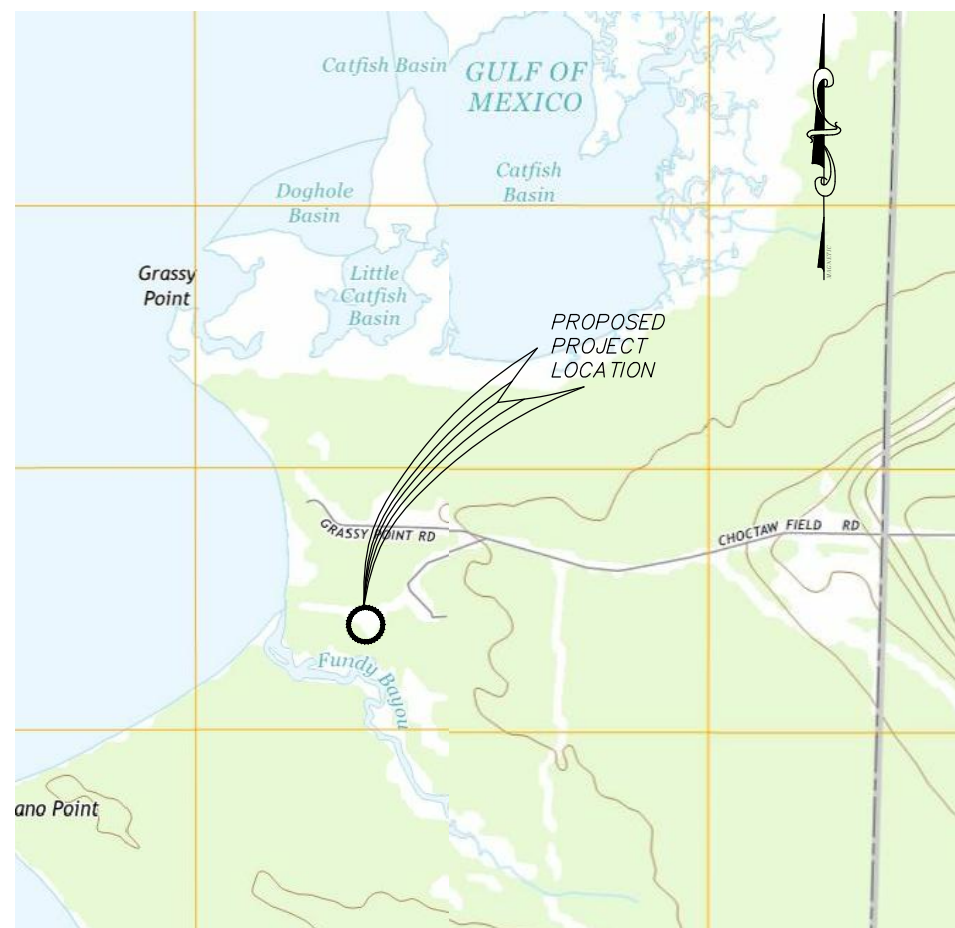
DIRECTIONS TO SITE:  
 FROM US-90 EAST IN MILTON FL  
 TURN SOUTH ONTO FL-87 SOUTH .  
 CONTINUE FOR 6.0 MILES THEN TURN  
 RIGHT ONTO EGLIN AFB ROAD FOR  
 4.8 MILES. TURN RIGHT ON CHOCTAW  
 FIELD ROAD THE SITE IS ON THE  
 LEFT AFTER 2.3 MILES



# ESCRIBANO POINT WILDLIFE MANAGEMENT AREA

NORTHWEST REGION  
 SANTA ROSA COUNTY

## HYDROLOGIC RESTORATION



PROJECT LOCATION  
 N.T.S.

### SCOPE OF PROJECT

RESTORE HISTORIC HYDROLOGIC SURFACE FLOW TO NATURAL AREA BY REMOVING THREE ROADS AND PROVIDING WATER CROSSINGS. PROJECT TO INCLUDE ALL MATERIALS, EQUIPMENT, LABOR, AND INSURANCE NECESSARY TO COMPLETE THE SCOPE OF WORK. ASBUILT DRAWINGS IN AUTOCAD 2018 OR LATER ARE REQUIRED UPON COMPLETION OF CONSTRUCTION. ANY ITEM NOT SPECIFICALLY LISTED AS AN ADDITIONAL ITEM IS PART OF THE SCOPE OF WORK. ALL DEMOLISHED AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

### NOTES:

1. ANY PRODUCT SPECIFIED BY BRAND OR MANUFACTURER WITHIN THE PLANS AND SPECIFICATIONS MAY BE SUBSTITUTED BY THE CONTRACTOR WITH AN EQUAL OR BETTER PRODUCT AFTER OBTAINING WRITTEN APPROVAL FROM THE OWNER.
2. WHERE COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED, NOTED, OR DRAWN FOR THE SAME ITEM OR ITEMS, AND THEY ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, THE MOST STRINGENT ITEM OR ITEMS MAY BE REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER. ALL SUCH CONFLICTS ARE TO BE REFERRED TO THE OWNER FOR A FINAL DETERMINATION AS WHAT WILL BE REQUIRED BEFORE PROCEEDING WITH THE WORK IN QUESTION.
3. CONTRACTOR IS RESPONSIBLE FOR PAYING ALL APPLICABLE SALES TAXES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL MATERIALS REQUIRED TO COMPLETE THE PROJECT. FWC WILL NOT MAKE ANY PAYMENTS FOR MATERIALS UNTIL THEY ARE DELIVERED TO THE SITE OF ERECTED PER THE AGREED UPON SCHEDULE OF VALUES

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S-106	BRIDGE SECTION AND DETAILS



**DRMP**  
 ENGINEERS • SURVEYORS • PLANNERS • DESIGNERS  
 1625 SUMMIT LAKE DRIVE, STE 200  
 TALLAHASSEE, FL 32308  
 PHONE: 850-562-9600 Fax: 850-575-5544  
 www.DRMP.com

ESCRIBANO POINT WMA  
 HYDROLOGIC RESTORATION

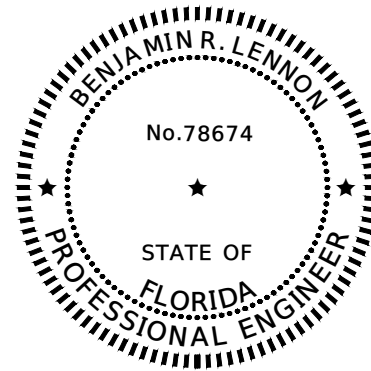
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION  
 PUBLIC ACCESS SERVICES OFFICE  
 PLANNING AND DESIGN SECTION

620 South Meridian Street  
 Tallahassee, FL 32309-1600  
 (850) 921-9931

INITIAL ISSUE DATE	3/27/2023	
SYMBOL	REVISION	DATE

PLANS PRINT TO SCALE ON 11'X17" SHEETS

PROFESSIONAL ENGINEER  
 THIS ITEM HAS BEEN DIGITALLY SIGNED  
 AND SEALED BY KEITHAN R. LEWIS, P.E.  
 ON THE DATE NOTED ON THE ELECTRONIC  
 SIGNATURE.  
 PRINTED COPIES OF THIS DOCUMENT ARE  
 NOT CONSIDERED SIGNED AND SEALED AND  
 THE SIGNATURE MUST BE VERIFIED ON  
 ANY ELECTRONIC COPIES



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ON THE DATE ADJACENT TO THE SEAL.

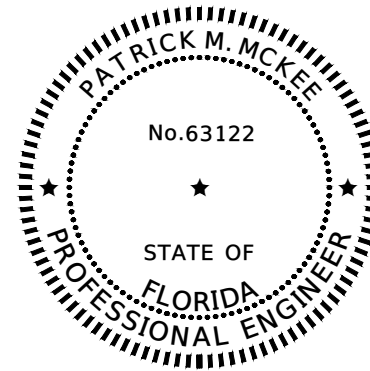
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

DRMP  
1625 SUMMIT LAKE DRIVE, STE 200  
TALLAHASSEE, FLORIDA 32317  
OFFICE: 850.562.9600  
AUTHORIZATION No. 2648  
BENJAMIN R. LENNON, P.E. 78674

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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D-300 - D-301	CONSTRUCTION DETAILS - SOUTH ROAD



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KEVER J MCKEE ENGINEERING  
1624 METROPOLITAN BLVD., SUITE A  
TALLAHASSEE, FLORIDA 32308  
OFFICE: 850.727.5367  
AUTHORIZATION No. 31293  
PATRICK M. MCKEE, P.E. #63122

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

PLAN INDEX

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S-105	ABUTMENT DETAILS
S-106	BRIDGE SECTION AND DETAILS

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**FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION**  
**PUBLIC ACCESS SERVICES OFFICE**  
**PLANNING AND DESIGN SECTION**

620 South Meridian Street  
Tallahassee, FL 32399-1600  
(850)921-9931

INITIAL ISSUE DATE	3/27/2023	
SYMBOL	REVISION	DATE

DESIGNER:  
BRL  
DRAWN BY:  
RAJ  
CMP: FILE No.  
STATE PROJECT No.

**DRMP**  
ENGINEERING • SURVEYING • PLANNING • SCIENTISTS  
1625 SUMMIT LAKE DRIVE, SUITE 200  
TALLAHASSEE, FL 32317  
PHONE: 850-562-9600 Fax: 850-575-5544  
www.DRMP.com

PROFESSIONAL REGISTRATION  
C.O.A. No. 2648

ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE	SIGNATURE SHEET
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	G-001

**GENERAL NOTES:**

- THE BOUNDARY AND TOPOGRAPHIC DATA SHOWN ON THE ATTACHED PLANS WAS PROVIDED BY O'NEAL SURVEY AND MAPPING, INC. (850-270-2138). FIELD WORK COMPLETED ON 6-29-2015.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCEMENT OF CONSTRUCTION. ANY DEVIATION IN PLAN INFORMATION SHALL BE REPORTED TO THE FWC PROJECT MANAGER IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A DEWATERING PERMIT FROM THE WATER MANAGEMENT DISTRICT AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS AND DRIVEWAYS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE FDOT MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS.
- THE UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE FWC PROJECT MANAGER. THE CONTRACTOR SHALL NOT REMOVE AND/OR DISTURB ANY TREES AND/OR SHRUBS WITHOUT PRIOR APPROVAL BY THE FWC PROJECT MANAGER.
- ALL UNDERGROUND UTILITIES AND INFRASTRUCTURE LOCATED BENEATH THE STABILIZED PORTION OF THE ROAD BED SHALL BE INSTALLED BEFORE COMPACTION OF THE SUBGRADE OR AS OTHERWISE DIRECTED BY THE FWC PROJECT MANAGER.
- A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE WITH THE FWC PROJECT MANAGER, ENGINEER, ARCHITECT AND UTILITY COMPANIES BEFORE THE START OF CONSTRUCTION.
- NOTIFICATION TO THE FWC PROJECT MANAGER IS REQUIRED 72 HOURS BEFORE CONSTRUCTION COMMENCEMENT, ALSO FOR PERFORMANCE OF DENSITY TESTING AND ASPHALTIC APPLICATION.
- THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR UNLESS SPECIFIED OTHERWISE IN THE CONTRACT DOCUMENTS.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE BASED UPON BEST AVAILABLE INFORMATION REVIEWED AT THE TIME OF DOCUMENT PREPARATION. THE FWC PROJECT MANAGER AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE PROVIDED UTILITIES DATA. THIS INFORMATION MAY NOT BE OF SUITABLE ACCURACY OR CORRECTNESS FOR THE CONTRACTOR'S CONSTRUCTION NEEDS. THEREFORE, THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING THE WORK BEFORE CONSTRUCTION.
- THE CONTRACTOR WILL ENGAGE THE SERVICES OF A RECOGNIZED SOILS AND MATERIALS TESTING LABORATORY FOR COMPLIANCE TESTING AT THE CONTRACTORS EXPENSE. INSPECTIONS OR OTHER SERVICES DEEMED NECESSARY OR DESIRABLE BY THE FWC PROJECT MANAGER WILL BE PAID FOR BY THE FWC PROJECT MANAGER. THE COST OF ANY RE-TESTING REQUIRED, OR IMPACTS OF TIME DELAYS CAUSED BY WORK OR MATERIALS NOT MEETING STATED CONTRACT REQUIREMENTS, SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL SCHEDULE TESTING SO THAT CONSTRUCTION ACTIVITIES ARE NOT DISRUPTED. MISCELLANEOUS TESTING ABOVE AND BEYOND NORMALLY SCHEDULED TESTING MAY BE REQUESTED BY THE FWC PROJECT MANAGER AT ANY TIME. THE CONTRACTOR SHALL COOPERATE WITH SUCH ACTIVITIES.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL AFFECTED FEDERAL, STATE, LOCAL, AND PRIVATE ENTITIES POTENTIALLY AFFECTED. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 72 HOURS NOTICE OF WHEN CONSTRUCTION WILL COMMENCE IN THE AREA IN ORDER TO PERMIT FIELD LOCATION OF UTILITY LINES BEFORE CONSTRUCTION. A TOLL FREE NUMBER 1-800-432-4770 IS AVAILABLE TO ASSIST IN SUCH COORDINATION EFFORTS. THIS NUMBER IS PART OF THE UTILITY NOTIFICATION PROGRAM, COMMONLY REFERRED TO AS "ONE CALL", BUT DOES NOT COMPLETELY REPRESENT ALL UTILITIES POTENTIALLY AFFECTED. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY AND ALL DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTORS ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION SERVICES, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO HAVE THE LOCATIONS OF ALL UTILITIES FIELD MARKED. ALSO, THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE FWC PROJECT MANAGER UPON DISCOVERY OF ANY DISCREPANCIES OR CONFLICTS BETWEEN THE CONSTRUCTION DOCUMENTS AND ACTUAL CONSTRUCTION CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE A REVIEW OF THE SITE TO DETERMINE EXISTING CONDITIONS AND ANYTHING NOT COVERED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE FWC PROJECT MANAGER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED IN WRITING BY THE FWC PROJECT MANAGER.
- THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH DRIVEWAYS, SIDEWALKS, CURBS, FENCING, ETC., DAMAGED DURING CONSTRUCTION, WITH THE SAME TYPE AND QUALITY OF MATERIALS AND WORKMANSHIP AS PREVIOUSLY EXISTED.
- ALL BURIED PIPELINES, CONDUITS, CABLES, ETC. SHALL HAVE A MINIMUM COVER OF 30 INCHES BELOW FINISHED GRADE UNLESS OTHERWISE CALLED FOR. ALL FACILITIES AND ACCESSORIES SHALL BE INSTALLED IN COMPLIANCE WITH APPLICABLE LOCAL CODES AND REQUIREMENTS PLUS THE CONTRACT DOCUMENTS.
- ALL DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF PAVEMENT OR VEGETATION. WATERING, APPLICATION OF CALCIUM CHLORIDE OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT PAVEMENT, GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INCORPORATED AS SOON AS POSSIBLE.
- CONSTRUCTION SHALL BE CARRIED OUT 'IN THE DRY'. THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF DEWATERING NECESSARY. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR TIME REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING RECORD DRAWING INFORMATION INCLUDING, BUT NOT LIMITED TO, FINISHED GRADE ELEVATIONS, TIES TO WATER LINES, VALVES, BENDS, SERVICE CONNECTIONS, ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN, LOCATIONS OF SAMPLE POINTS FOR WATER COMPLIANCE TESTING, TIES TO SANITARY SEWER LINES, MANHOLE RIM AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS, TIES TO STORM SEWER LINES, STRUCTURE TOP AND INVERT ELEVATIONS, PLUS LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN.
- ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, COUNTY AND/OR CITY CODES, ORDINANCES, STANDARDS, AND PERMIT CONDITIONS.
- WATER AND WASTEWATER SYSTEMS SHALL NOT BE PLACED IN SERVICE (FOR TEMPORARY OR PERMANENT USE) UNTIL ALL TESTING AND INSPECTIONS HAVE BEEN COMPLETED. TEST REPORTS AND AS-BUILTS FOR THOSE SYSTEMS COMPLETED SHALL BE SUBMITTED AND CLEARANCE OBTAINED FROM APPLICABLE UTILITIES AND PERMITTING AGENCIES BEFORE ANY SUCH USE.
- CONTRACTOR SHALL EXPLORE POSSIBLE CONFLICTS WITH EXISTING UTILITIES (INCLUDING UNDERGROUND PHONE AND POWER) AT LEAST 72 HOURS BEFORE ACTUAL PIPE LAYING AND/OR INSTALLING STRUCTURES. ANY CONFIRMED CONFLICT SHALL BE REPORTED TO THE FWC PROJECT MANAGER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL PERMITS AND ASSOCIATED CONDITIONS.

**GENERAL NOTES (cont):**

- THE CONTRACTOR SHALL CONTACT THE FWC PROJECT MANAGER 72 HOURS PRIOR TO BACKFILLING TRENCHES TO ALLOW FOR FIELD INSPECTION.
- THE CONTRACTOR SHALL PROVIDE THE FWC PROJECT MANAGER "SHOP DRAWINGS" FOR REVIEW OF ALL MANUFACTURED AND PRE-CAST ITEMS TO BE USED ON SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL/REPLACEMENT OF ANY UNAPPROVED MANUFACTURED AND/OR PRE-CAST ITEMS AND ALL ASSOCIATED COSTS. THE CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE OF ALL APPROVED MANUFACTURED AND PRE-CAST ITEMS.
- ALL HANDICAP RAMPS SHALL COMPLY WITH THE AMERICANS WITH DISABILITY'S ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN AND FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION
- PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS DESIGNATED BY THE FWC PROJECT MANAGER.
- ALL CONCRETE USED SHALL BE 3,000 PSI MINIMUM UNLESS OTHERWISE NOTED IN THE PLANS.
- ALL EXISTING WELLS, CLEANOUTS, MANHOLE TOPS, PULL BOX COVERS AND OTHER UTILITY APPURTENANCES IN THE AREA OF REDEVELOPMENT SHALL BE PROTECTED AND TOPS ADJUSTED TO MATCH FINISHED GRADES.
- CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS ANY EXISTING PAVEMENT.
- ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL.
- ADDITIONAL WELLS AND/OR SEPTIC SYSTEMS OTHER THAN WHAT IS SHOWN ON PLANS MAY EXIST.
- CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT (SEPARATE DOCUMENT PREPARED BY ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC., DATED MARCH 2016) AND FOLLOW THE RECOMMENDED SITE PREPARATION PROCEDURES CONTAINED THEREIN.
- THE CONTRACTOR SHALL NOT DISTURB OR RELOCATE ANY EXISTING UTILITIES WITHOUT WRITTEN PERMISSION FROM THE UTILITY OWNER.
- THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE SODDED, SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, AS DIRECTED BY THESE PLANS, IMMEDIATELY FOLLOWING CONSTRUCTION PER LOCAL INSPECTOR.
- THE GOVERNING STANDARDS AND SPECIFICATIONS, UNLESS STATED OTHERWISE SHALL BE PER THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS. ALL MATERIAL AND METHODS SHALL MEET FDOT SPECIFICATIONS AND SHALL BE PRODUCED OR OBTAINED FROM AN FDOT APPROVED SOURCE.
- ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE FWC PROJECT MANAGER.
- RECORD DRAWINGS:  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON A SET OF APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. WITHIN TWO WEEKS FOLLOWING FINAL INSPECTIONS, THE CONTRACTOR SHALL SUBMIT ONE SET OF DRAWINGS TO THE FWC PROJECT MANAGER. THE FINAL RECORD DRAWINGS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:  
  - DRAWING TO BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
  - DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UTILITIES AND RELATED ITEMS, BOTH ABOVE AND BELOW GROUND. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL.
  - DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL.
  - DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATIONS SHALL BE CLEARLY SHOWN.
  - LOCATIONS OF ALL MANHOLES, HYDRANTS, VALVES, AND VALVE BOXES SHALL BE SHOWN.
  - THE CONTRACTOR SHALL PROVIDE CERTIFIED AS-BUILT DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR AND MAPPER. THE AS-BUILT DRAWINGS SHALL SHOW FINAL GRADES AND LOCATIONS ON ALL UTILITIES INCLUDING THE WASTEWATER, WATER, PRODUCT PIPING, AND STORM WATER COLLECTION SYSTEM. THE CONTRACTOR SHALL PROVIDE TEN COPIES OF THE CERTIFIED AS-BUILT DRAWINGS TO THE FWC PROJECT MANAGER.

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 Tallahassee, FL 32399-1600  
 (850)921-9931

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ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE	GENERAL NOTES
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	G-100



**GENERAL NOTES (cont):**

- UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH THE FOLLOWING SPECIFICATIONS:
  - NORTH WEST FLORIDA WATER MANAGEMENT DISTRICT
  - 2021 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
  - FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
- THIS DESIGN HAS BEEN BASED UPON GROUND-RUN TOPOGRAPHIC SURVEYS, BY ONEAL SURVEYING AND MAPPING, INC. THE SURVEY IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH, LAMBERT PROJECTION, NORTH AMERICAN DATUM 1983/2011 ADJUSTMENT. ALL COORDINATES AND ELEVATIONS DEPICTED IN U.S. SURVEY FEET. THE HORIZONTAL AND VERTICAL CONTROL POINTS FOR THIS SURVEY WERE ESTABLISHED BY STATIC GPS POSITIONING OBSERVATIONS UTILIZING THE NATIONAL GEODETIC SURVEY (OPUS) ONLINE POSITIONING USER SERVICE, WITH SOKKIA GRX2 BASE RECEIVERS.
 

HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983/2011 ADJUSTMENT. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.
- FIVE BENCHMARKS ARE LOCATED THROUGHOUT THE SITE. TWO ALONG ESCRIBANO POINT ROAD, TWO ALONG LOG BRIDGE ROAD AND ONE ON CHOCTAW FIELD ROAD.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUBSURFACE CONDITIONS, THE WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY AFFECT THE SUCCESSFUL COMPLETION OF THE JOB PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND PERMIT CONDITIONS BEARING ON THE CONDUCT OF THE WORK, AS DRAWN AND SPECIFIED. IF THE CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, HE SHALL PROMPTLY NOTIFY THE ENGINEER, IN WRITING, AND ANY NECESSARY CHANGES SHALL BE ADJUSTED, AS PROVIDED IN THE AGREEMENT FOR CHANGES IN THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER AND THE ENGINEER FOR THE ACTS AND OMISSIONS OF CONTRACTOR'S EMPLOYEES AND ALL HIS SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH GOVERNMENTAL DEPARTMENTS, PUBLIC UTILITIES, PUBLIC CARRIERS, SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, AND TELEGRAPH FACILITIES SUCH AS PAVEMENTS, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS, OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED THEREWITH THAT ARE ENCOUNTERED IN THE WORK IN ORDER THAT SUCH ITEMS MAY BE PROPERLY SUPPORTED, PROTECTED OR LOCATED.
- UNLESS OTHERWISE SPECIFIED IN THE GENERAL CONDITIONS, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, APPLICABLE PERMITS, AND SPECIFICATIONS HEREIN, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING AND SAFETY CODES, LAWS AND ORDINANCES.
- IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS HE SHALL IMMEDIATELY NOTIFY THE OWNER OR OWNER'S AGENT.
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, PERMANENT CONTROL POINTS, PERMANENT BENCH MARKS AND PROPERTY CORNERS. IN THE EVENT THE MONUMENTS, POINTS OR MARKERS ARE DISTURBED THE CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE THEM.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE REQUIRED DEP PERMITS IF REQUIRED.
- THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS, SHALL AT ALL TIMES HAVE ACCESS TO THE WORK WHEREVER AND WHENEVER IT IS IN PREPARATION OR PROGRESS; AND THE CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR SUCH ACCESS AND FOR THE INSPECTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL REASONABLE AND PRUDENT PRECAUTIONS TO INSURE THAT ALL COMPLETED WORK, MATERIALS AND EQUIPMENT STORED ON SITE ARE SAFE AND SECURED FROM UNAUTHORIZED ACCESS OR USE. SUCH PRECAUTIONS MAY INCLUDE INSTALLATION OF SIGNS, FENCES, OR POSTING OF SECURITY GUARDS.
- THE CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND GUIDELINES PERTAINING TO SAFE UTILIZATION OF EQUIPMENT OR MATERIALS AS PUBLISHED BY MANUFACTURER.
- PRIOR TO INITIATING ANY EXCAVATION (INCLUDING BUT NOT LIMITED TO TUNNELS, DITCHES, STORM WATER PONDS, CANALS, ARTIFICIAL LAKES) CONTRACTOR SHALL INSTALL FENCES AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO INSURE THAT ACCESS TO EXCAVATION BY UNAUTHORIZED PERSONNEL IS PREVENTED.
- THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF THE FLORIDA STATE TRENCH SAFETY ACT.
- THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:
  - ALL EMPLOYEES ON THE WORK AND ALL OTHER PERSONS WHO MAY BE AFFECTED THEREBY;
  - ALL THE WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS;
  - OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAY, STRUCTURES AND UTILITIES NOT DESIGNATED FOR DEMOLITION IN THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC, QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THEIR PROTECTION AGAINST DAMAGE, INJURY OR LOSS, OR DESIGNED TO PROTECT THE ENVIRONMENT. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND OF THE SAFETY REGULATIONS.
- ALL DAMAGE OR LOSS TO ANY PROPERTY REFERRED TO IN CLAUSES 17.1(B) AND 17.1(C) CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, A SUBCONTRACTOR, OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER, OR THE ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART, TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
- UNTIL FINAL ACCEPTANCE OF THE WORK BY OWNER, THE CONTRACTOR SHALL HAVE THE CHARGE AND CARE OF AND SHALL BEAR THE RISK OF INJURY OR DAMAGE, LOSS OR EXPENSE TO ANY PART THEREOF, OR TO ANY MATERIALS STORED ON SITE, BY THE ACTION OF THE ELEMENTS OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD ALL INJURIES OR DAMAGES TO ANY PORTION OF THE WORK OCCASIONED BY ANY OF THE ABOVE CAUSES BEFORE FINAL ACCEPTANCE AND SHALL BEAR THE EXPENSES THEREOF.
- THOSE PARTS OF WORK IN PLACE WHICH ARE SUBJECT TO DAMAGE BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMAN SERVICES SHALL BE FURNISHED AND MAINTAINED BY THE CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTERS ONTO OR CROSSES TRAFFIC-CARRYING ROADS.

**GENERAL NOTES (cont):**

- THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ACT OF 1970 AND ALL RULES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT, AND THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY AND ALL APPLICABLE STATE LAWS AND REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH.
- THE CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COSTS, ATTORNEY'S FEES, EXPENSES, CAUSES OF ACTION, CLAIMS OR JUDGMENTS RESULTING FROM THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AS AMENDED OR ANY RULE OR REGULATION PROMULGATED

**DEMOLITION NOTES:**

- BEST MANAGEMENT PRACTICES (BMP) SHALL BE EMPLOYED BY INSTALLING SILT FENCING (PER FDOT INDEX NO. 102) FOR THE PURPOSE OF PREVENTING OFF SITE SILTATION AND EROSION PRIOR TO ANY SITE WORK. AT THE END OF EACH WORK DAY, THE SILT FENCING SHALL BE INSPECTED AND REPAIRED AS REQUIRED TO ENSURE COMPLIANCE WITH THE SILT FENCE DETAIL ON THE APPROVED PLANS.
- TREE PROTECTION BARRICADES SHALL BE INSTALLED PRIOR TO ANY SITE WORK AND SHALL REMAIN FOR THE DURATION OF THE CONSTRUCTION PHASE. AT THE END OF EACH WORK DAY, THE TREE PROTECTION BARRICADES SHALL BE INSPECTED AND REPAIRED AS REQUIRED TO ENSURE COMPLIANCE WITH THE TREE PROTECTION BARRICADE DETAIL ON THE APPROVED PLANS. THERE SHALL BE NO STORING OF BUILDING MATERIALS, FILL, SPOIL, ETC... WITHIN THE LIMITS OF THE TREE PROTECTION BARRICADES.
- ALL DEMOLITION, NEW CONSTRUCTION AND TRAFFIC CONTROL MEASURES WITHIN THE PUBLIC RIGHTS-OF-WAY FOR DRIVEWAY CONNECTIONS OR UTILITY CONNECTIONS SHALL BE DONE IN ACCORDANCE WITH THE UTILITY OWNER'S AND/OR LOCAL CITY/COUNTY/STATE STANDARDS AND SPECIFICATIONS AND FINAL APPROVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AT ALL TIMES ANY AND ALL SURVEYED CORNERS, MONUMENTATION AND BENCHMARKS AS DENOTED ON THE CERTIFIED SURVEY FOR THIS PROJECT. IN THE EVENT ANY OF THESE ITEMS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL REESTABLISH SAID CONTROL BY A LICENSED SURVEYOR AT THE CONTRACTORS EXPENSE.

**LOG BRIDGE ROAD CONSTRUCTION NOTES:**

- GRADING LIMITS TO BE DEFINED AS 30 FT FROM CENTERLINE OF THE PROPOSED ROAD EXCEPT WHERE OTHERWISE NOTED.
- THE INTERMITTENT BERMS ON THE EAST AND WEST SIDES OF LOG BRIDGE ROAD NORTH OF THE PROPOSED BRIDGE SHALL BE DEMOLISHED WITHIN THE PROJECT AREA.
- THE BRIDGE AREA SHALL BE "MUCKED" OUT, FABRIC PLACED, AGGREGATE ADDED TO CROSSING AREA BEFORE CONSTRUCTION AND FILLING ACTIVITIES CAN BEGIN.
- TURBIDITY BARRIERS TO BE PLACED UPSTREAM AND DOWNSTREAM OF CONSTRUCTION ACTIVITIES.
- A LOW-WATER AGGREGATE BASE BY-PASS SHALL BE MAINTAINED ON THE SOUTH SIDE OF THE BRIDGE AREA DURING SURCHARGE PERIOD (SEE STRUCTURAL FOR SURCHARGE NOTES)
- ALL AGGREGATE, FABRIC, SOIL AND RIP RAP SHALL BE PLACED BEFORE SURCHARGE ACTIVITIES.
- GROUTING OF RIP-RAP SHALL OCCUR AFTER SURCHARGE ACTIVITIES
- ALL STRUCTURAL PILES AND ANY BRIDGE ELEMENTS SHALL OCCUR AFTER SURCHARGE ACTIVITIES.

**ROAD DEMOLITION NOTES:**

- THE OBJECTIVE OF THIS SCOPE IS TO DEMOLISH EXISTING ROADS AND FILL DITCHES AND LOW SPOTS IN ORDER TO RESTORE HISTORIC TOPOGRAPHY. A MANDATORY FWC-LEAD CONTRACTOR SITE WALK-DOWN WILL BE REQUIRED BEFORE BIDDING.
- FWC DOES NOT HAVE DETAILED TOPOGRAPHIC DATA FOR THIS SCOPE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE MATERIALS, EQUIPMENT, LABOR AND COST TO COMPLETE THE WORK.
- ACCEPTANCE OF THE WORK WILL BE BASED ON VISUAL INSPECTION PERFORMED BY FWC.
- SILT FENCE AND OTHER EROSION CONTROL WILL BE REQUIRED. THE CONTRACTOR WILL BE RESPONSIBLE FOR EROSION CONTROL DESIGN, IMPLEMENTATION, AND OBTAINING NECESSARY PERMITS FOR EROSION CONTROL.

**GRADING NOTES:**

- THE CONTRACTOR SHALL NOTIFY THE APPLICABLE REGULATORY AGENCIES PRIOR TO COMMENCING CLEARING.
- ALL CLEARING SHALL BE IN ACCORDANCE WITH NWFWM AND USACOE PERMITS.

LOCATION	Impact Table							NOTES
	SITE DISTURBANCE (AC.)	WETLAND IMPACT (AC.)	WETLAND RESTORATION (AC.)*	RIP RAP AREA (SF)	TEMPORARY ROAD (SF)	Dredge (CY)	Fill (CY)	
LOG BRIDGE ROAD (ROAD)	3.29	0.04	2.75	474	N/A	3,101	2,800	REMOVE BERMS, ADD CULVERTS, IMPROVE ROAD
LOG BRIDGE ROAD (BRIDGE)	0.24	0.18	0	6,000	12,000	77	400	REPLACE BRIDGE, STABILIZE WITH RIPRAP
WMD 12 ROAD	4.27	0	4.27	N/A	N/A	2,600	2,600	RESTORE TO HISTORICAL GRADES
SOUTH ROAD	5.93	0	5.93	N/A	N/A	3,981	3,981	RESTORE TO HISTORICAL GRADES
<b>Total</b>	<b>13.73</b>	<b>0.22</b>	<b>12.95</b>	<b>6,474</b>	<b>12,000</b>	<b>9,759</b>	<b>9,781</b>	

\*RESTORATION AREAS WITHIN DISTURBED AREAS - DOES NOT ACCOUNT FOR RESTORED AREAS OUTSIDE THE PROJECT AREA DUE TO RETURN TO HISTORICAL FLOW PATTERNS

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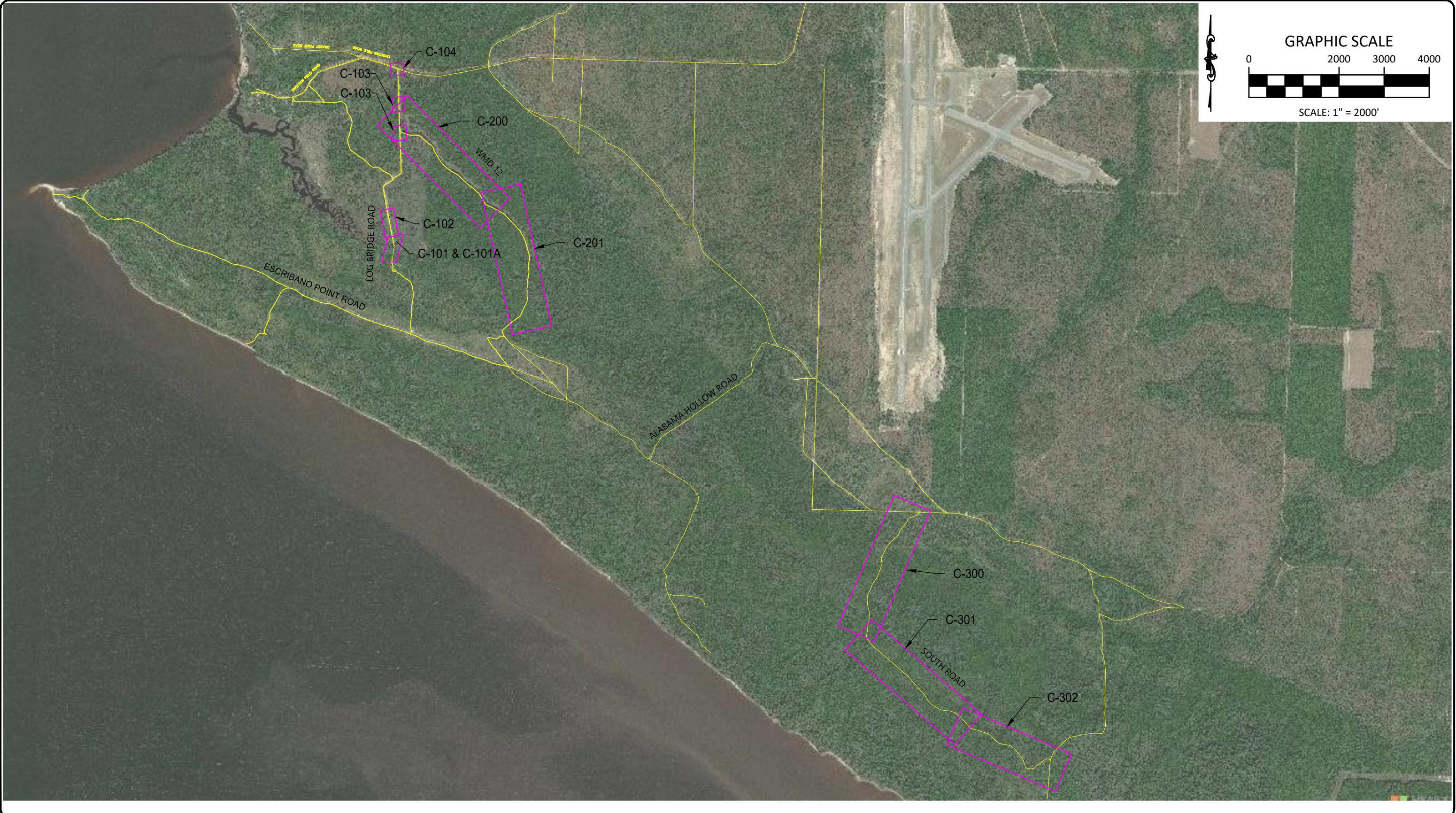
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ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE <b>GENERAL NOTES</b>	
PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. <b>G-101</b>



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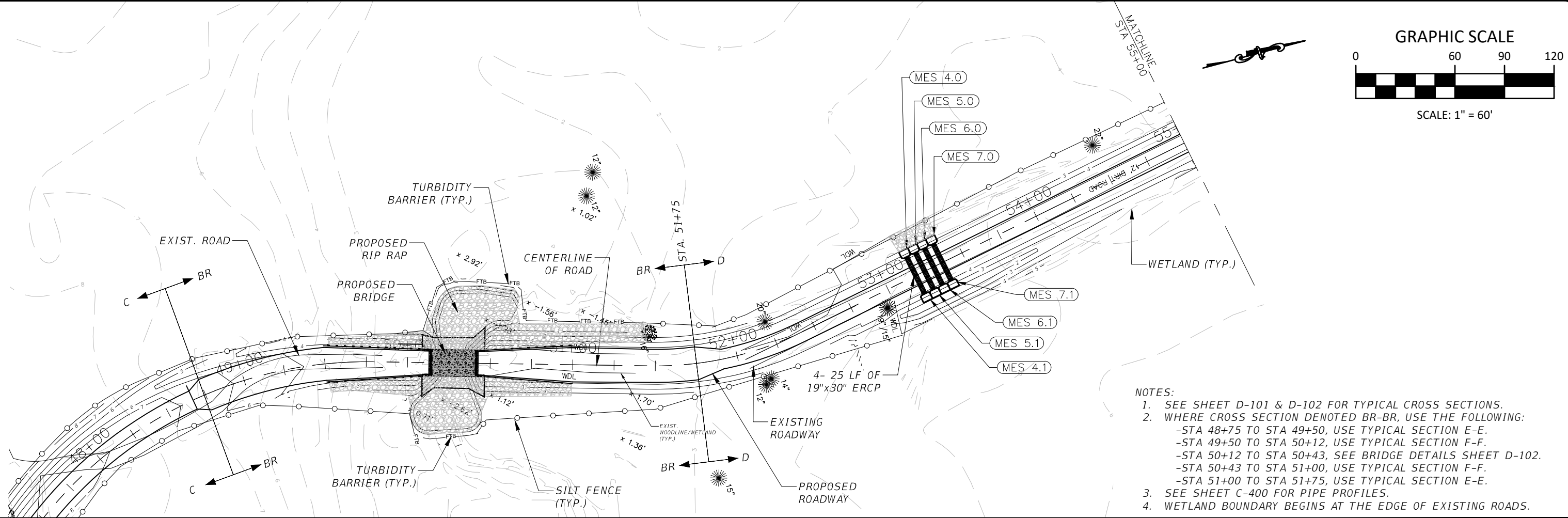
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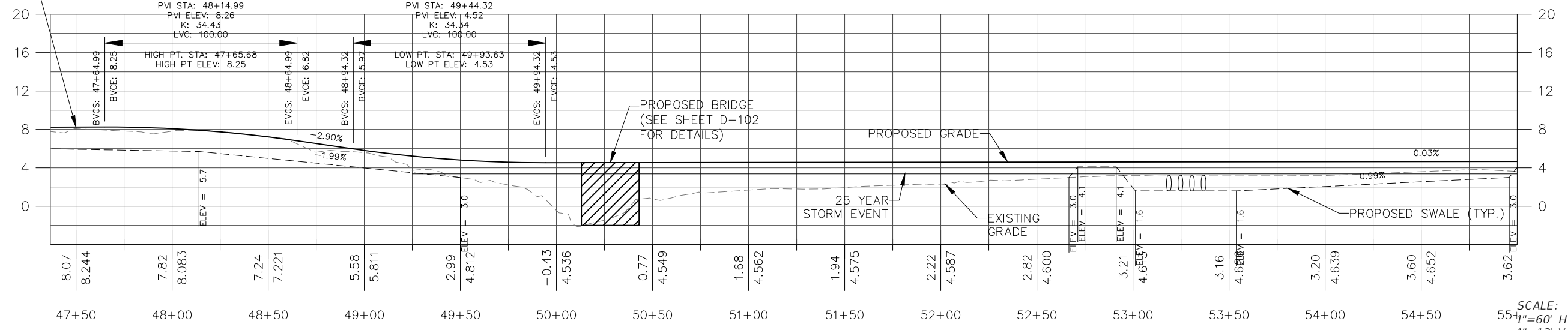
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SHEET TITLE KEY SHEET	
PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. C-100



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BEGIN ROAD STA 47+50,  
PROVIDE SMOOTH  
TRANSITION TO EXISTING



SCALE:  
55' 1" = 60' HORIZONTAL  
1" = 12' VERTICAL

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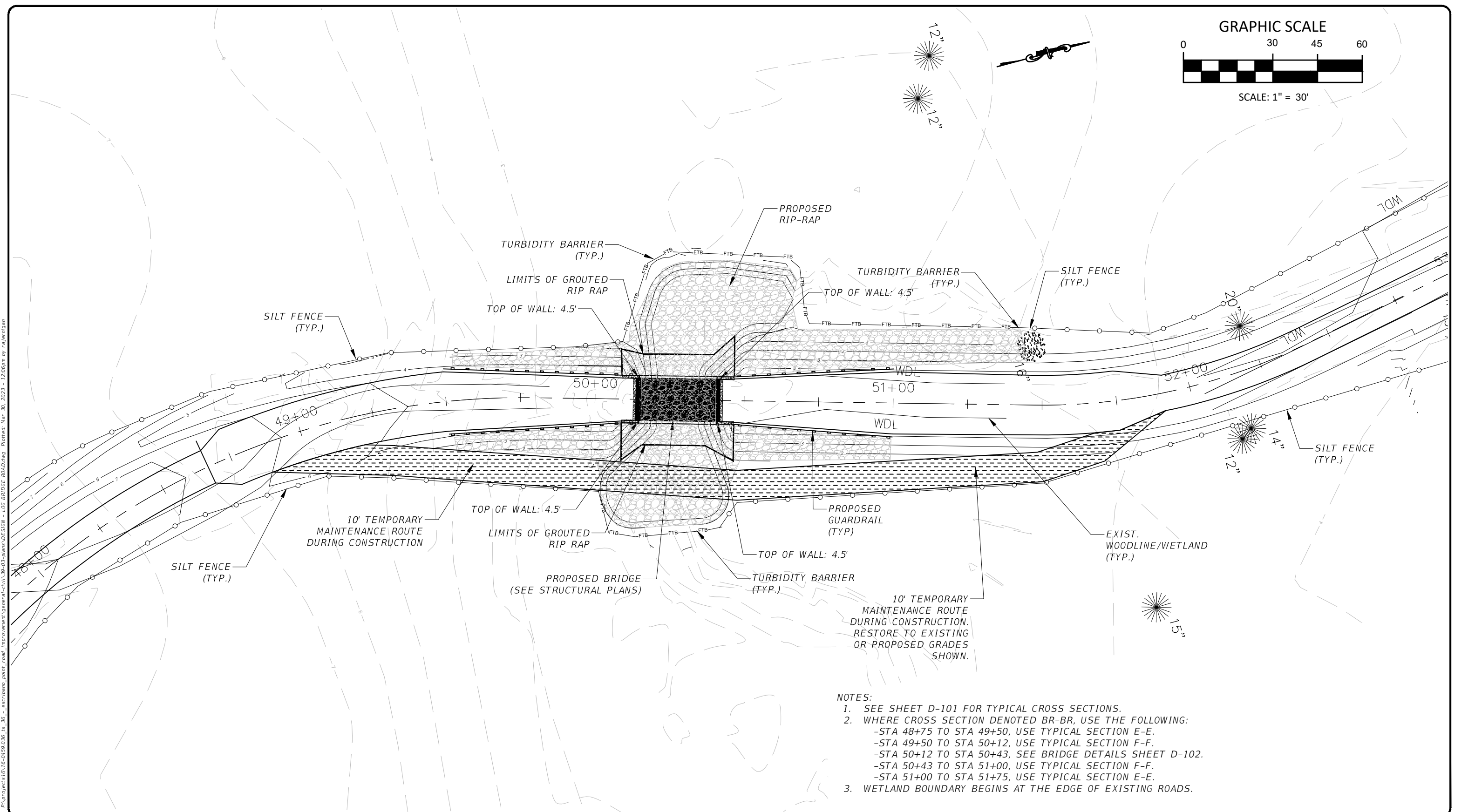
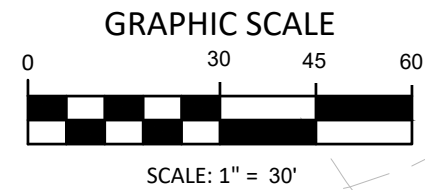
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ESCRIBANO POINT WILDLIFE MANAGEMENT AREA  
 SHEET TITLE  
**PLAN AND PROFILE - LOG BRIDGE ROAD**  
 PROJECT TITLE  
 HYDROLOGIC RESTORATION  
 SHEET NO.  
**C-101**

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- NOTES:
- SEE SHEET D-101 FOR TYPICAL CROSS SECTIONS.
  - WHERE CROSS SECTION DENOTED BR-BR, USE THE FOLLOWING:
    - STA 48+75 TO STA 49+50, USE TYPICAL SECTION E-E.
    - STA 49+50 TO STA 50+12, USE TYPICAL SECTION F-F.
    - STA 50+12 TO STA 50+43, SEE BRIDGE DETAILS SHEET D-102.
    - STA 50+43 TO STA 51+00, USE TYPICAL SECTION F-F.
    - STA 51+00 TO STA 51+75, USE TYPICAL SECTION E-E.
  - WETLAND BOUNDARY BEGINS AT THE EDGE OF EXISTING ROADS.

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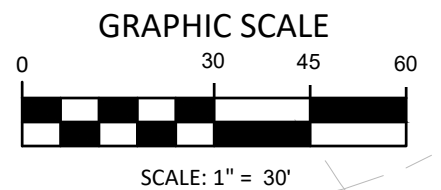
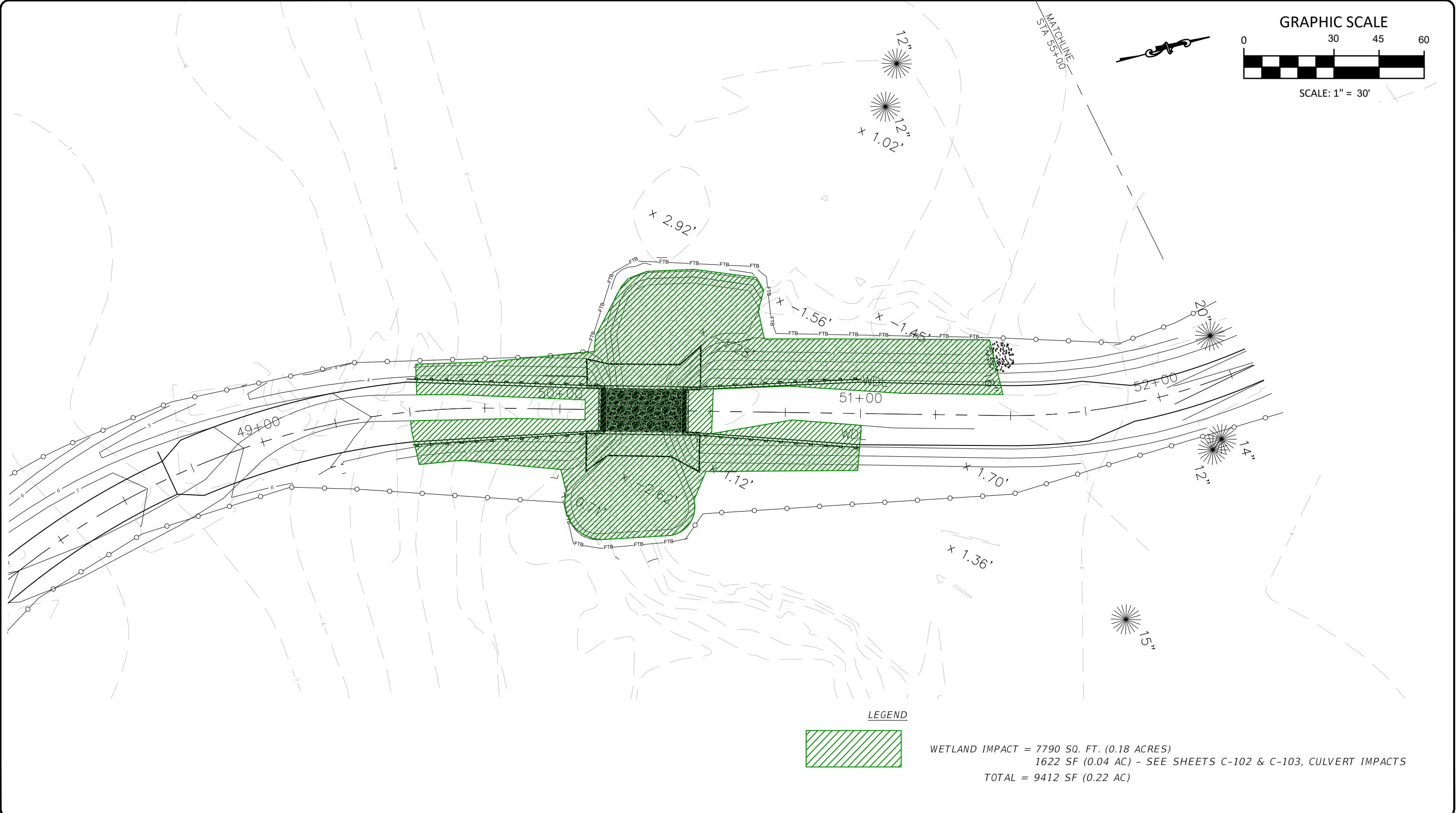
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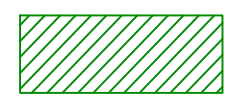
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SHEET TITLE	PLAN AND PROFILE - LOG BRIDGE ROAD
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	C-101A

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**LEGEND**



WETLAND IMPACT = 7790 SQ. FT. (0.18 ACRES)  
 1622 SF (0.04 AC) - SEE SHEETS C-102 & C-103, CULVERT IMPACTS  
 TOTAL = 9412 SF (0.22 AC)

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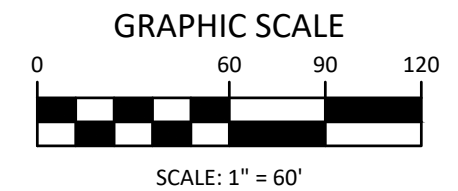
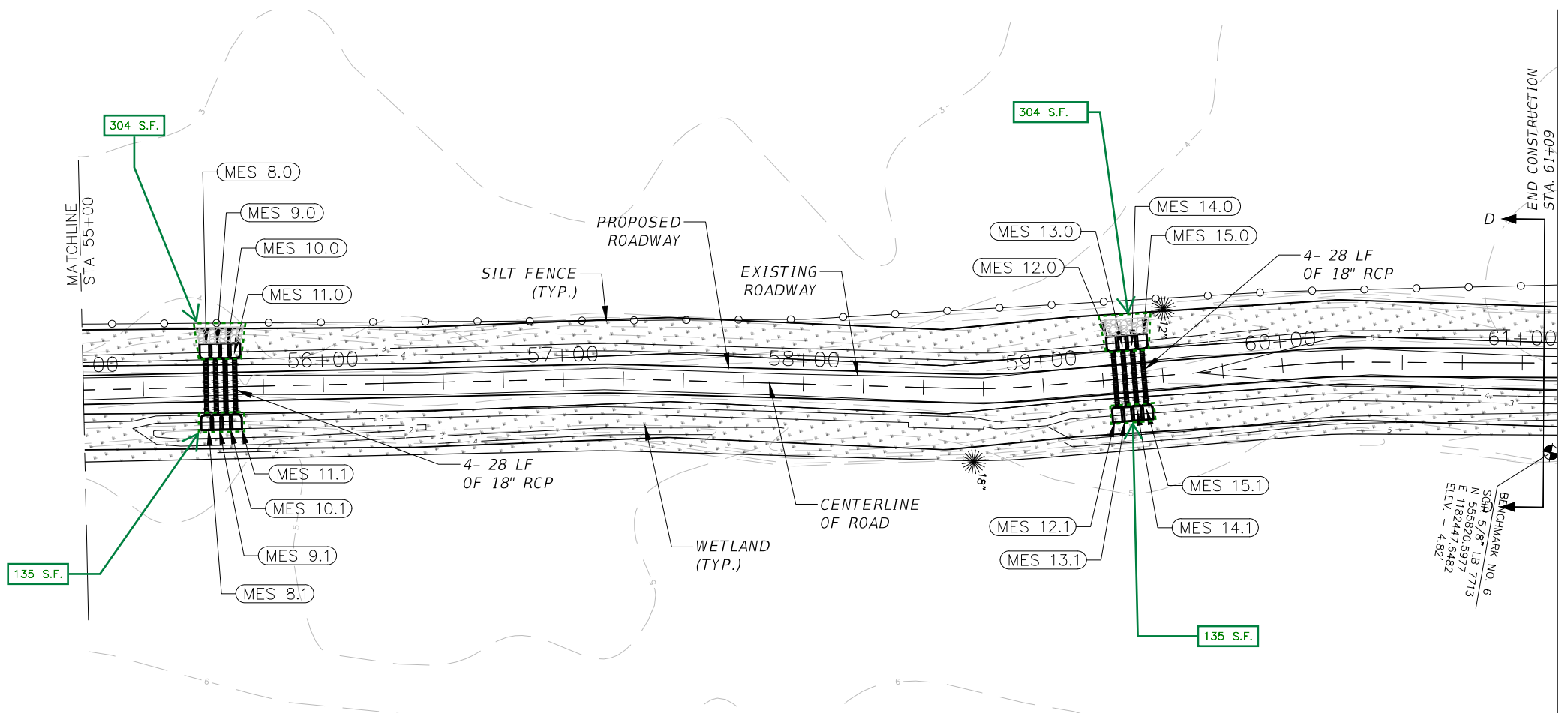
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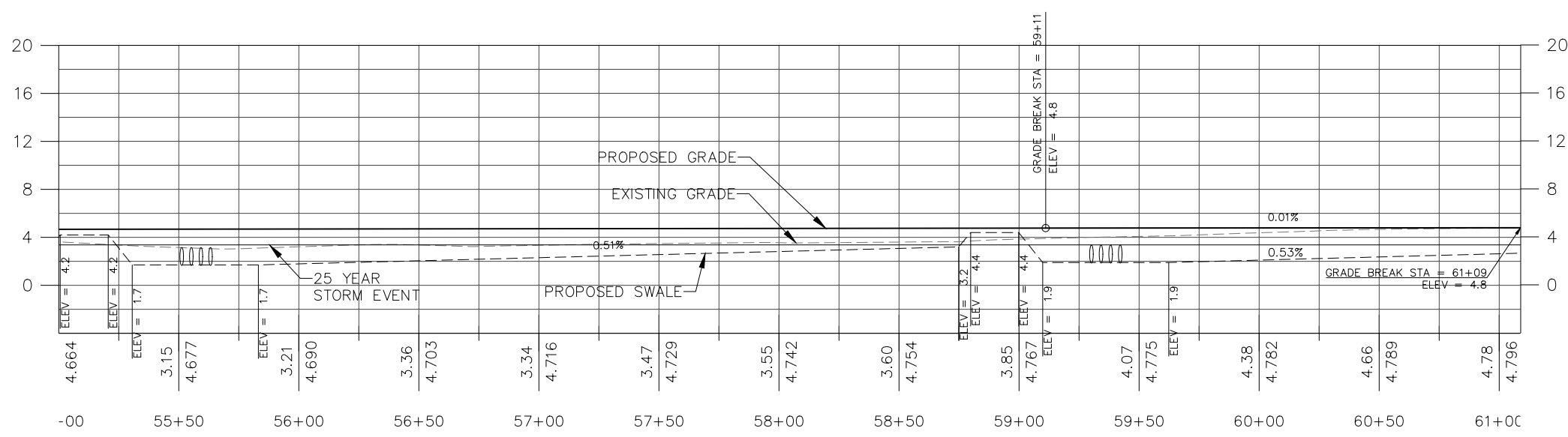
ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE LOG BRIDGE WETLAND IMPACT	
PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. C-101B

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WETLAND IMPACT AREA = 878 SF (0.02 AC)

- NOTES:
1. SEE SHEET D-101 FOR TYPICAL CROSS SECTIONS.
  2. SEE SHEETS C-401 AND C-402 FOR PIPE PROFILES.
  3. WETLAND BOUNDARY BEGINS AT THE EDGE OF EXISTING ROADS.



SCALE:  
1"=60' HORIZONTAL  
1"=12' VERTICAL

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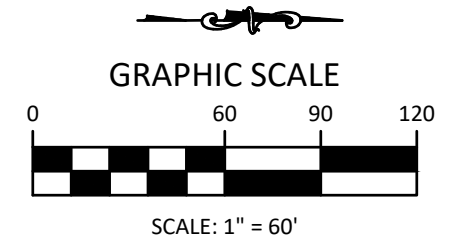
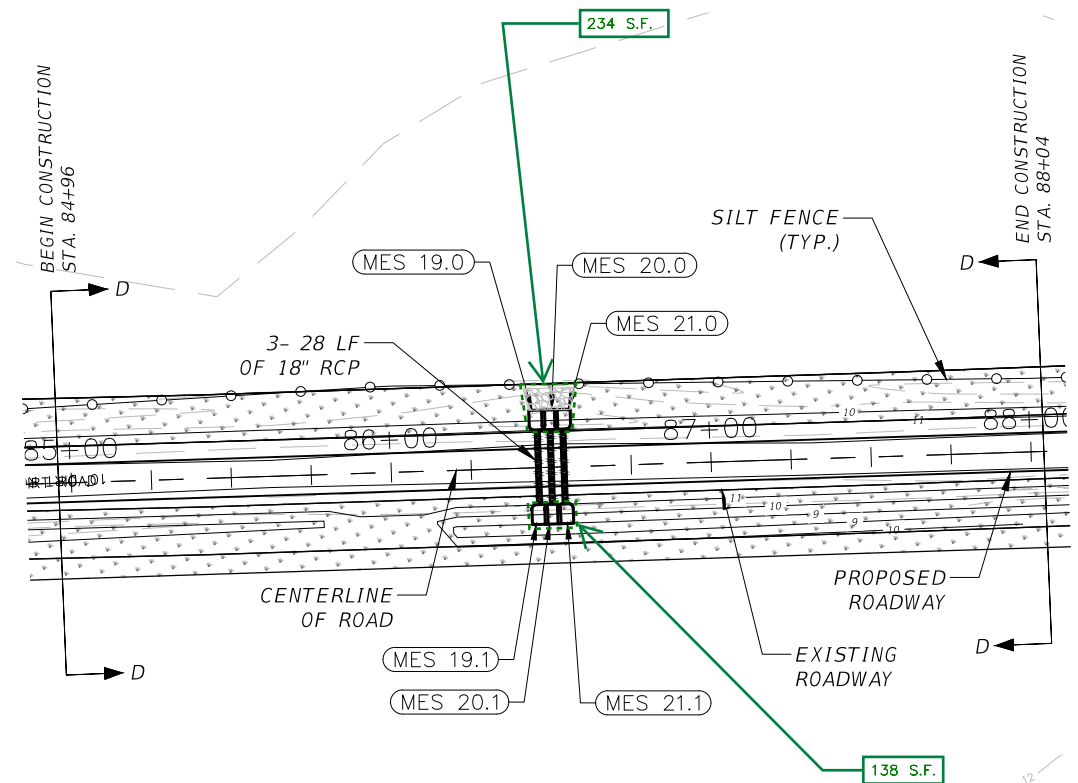
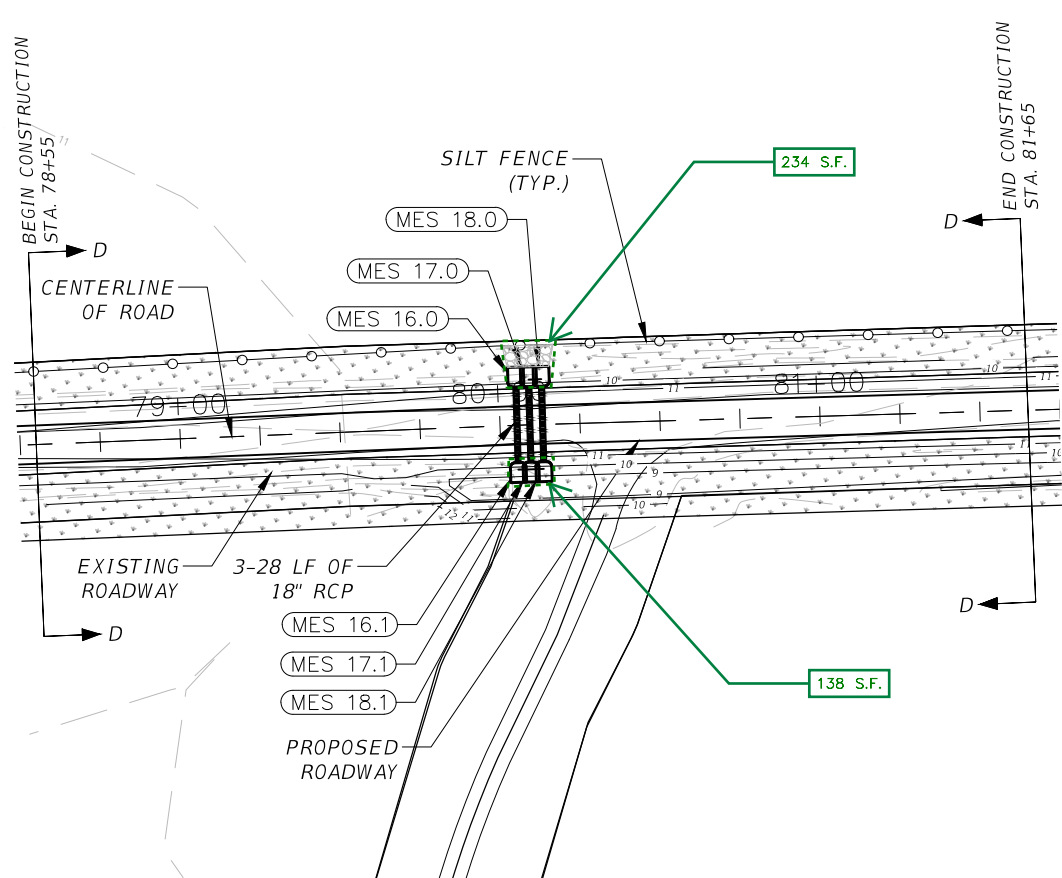
DESIGNER : BRL  
 DRAWN BY: RAJ  
 CDP. FILE No.  
 STATE PROJECT No.

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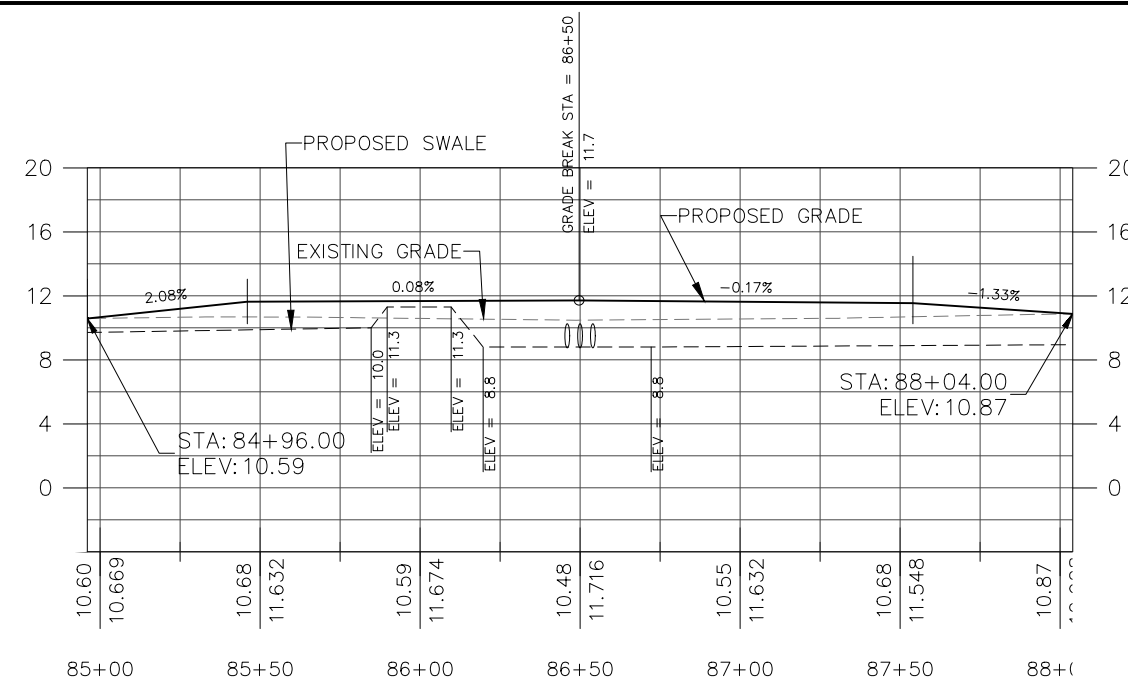
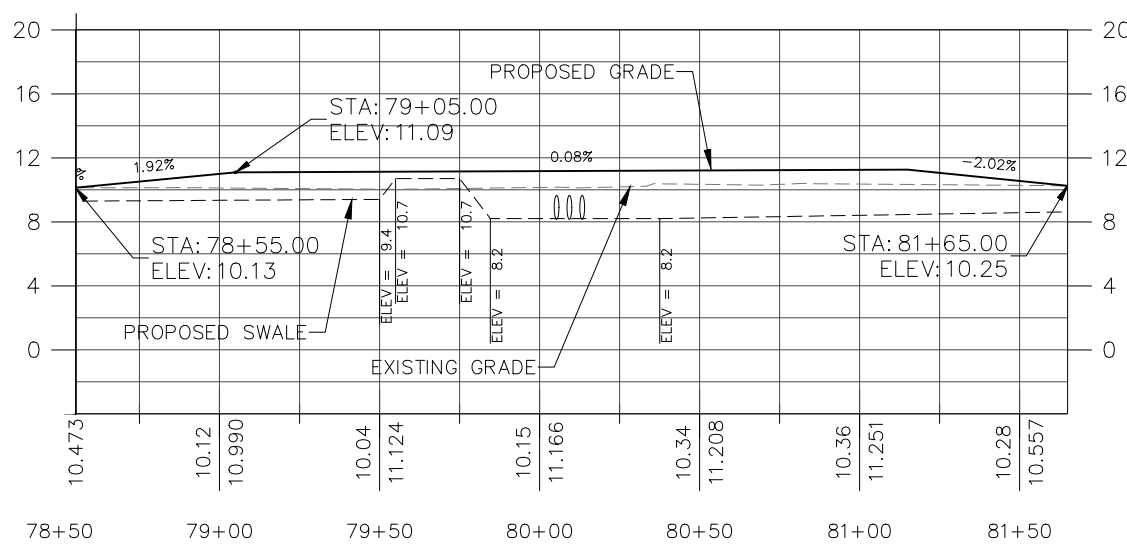
ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE	PLAN AND PROFILE - LOG BRIDGE ROAD
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	C-102

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WETLAND IMPACT AREA = 744 SF (0.02 AC)

- NOTES:
1. SEE SHEET D-101 FOR TYPICAL CROSS SECTIONS.
  2. SEE SHEETS C-403 & C-404 FOR PIPE PROFILES.
  3. WETLAND BOUNDARY BEGINS AT THE EDGE OF EXISTING ROADS.



SCALE:  
1"=60' HORIZONTAL  
1"=12' VERTICAL

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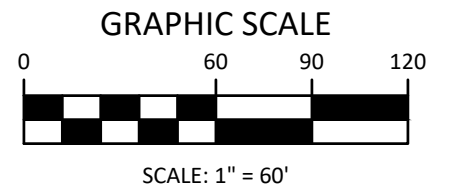
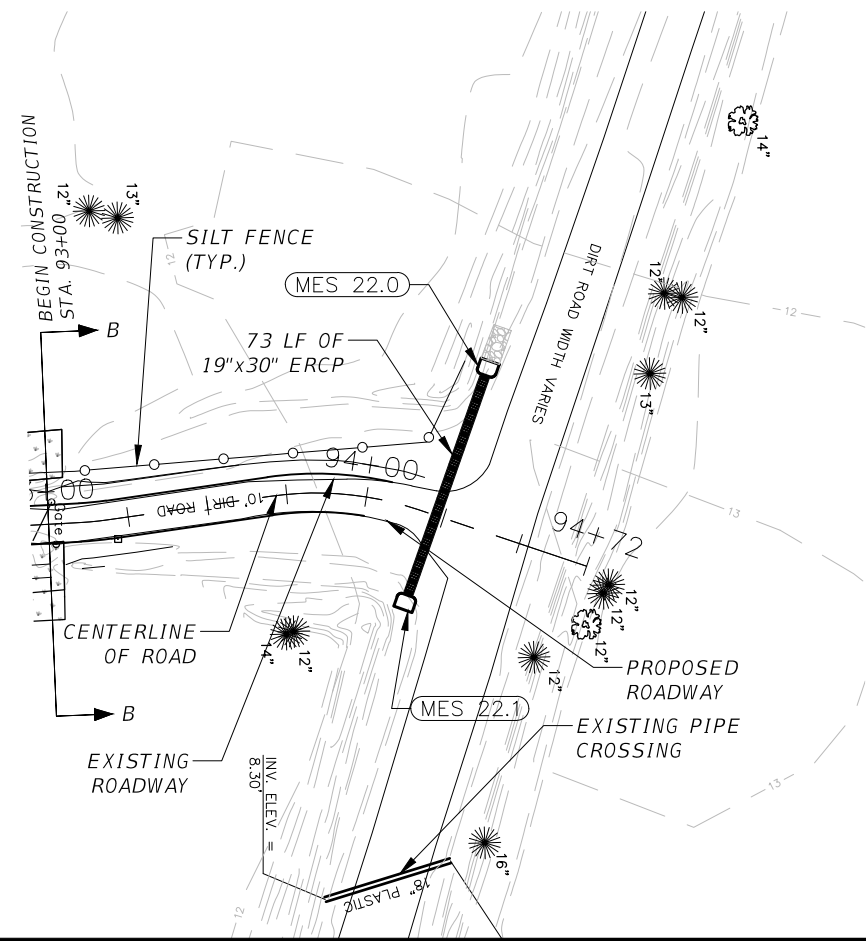
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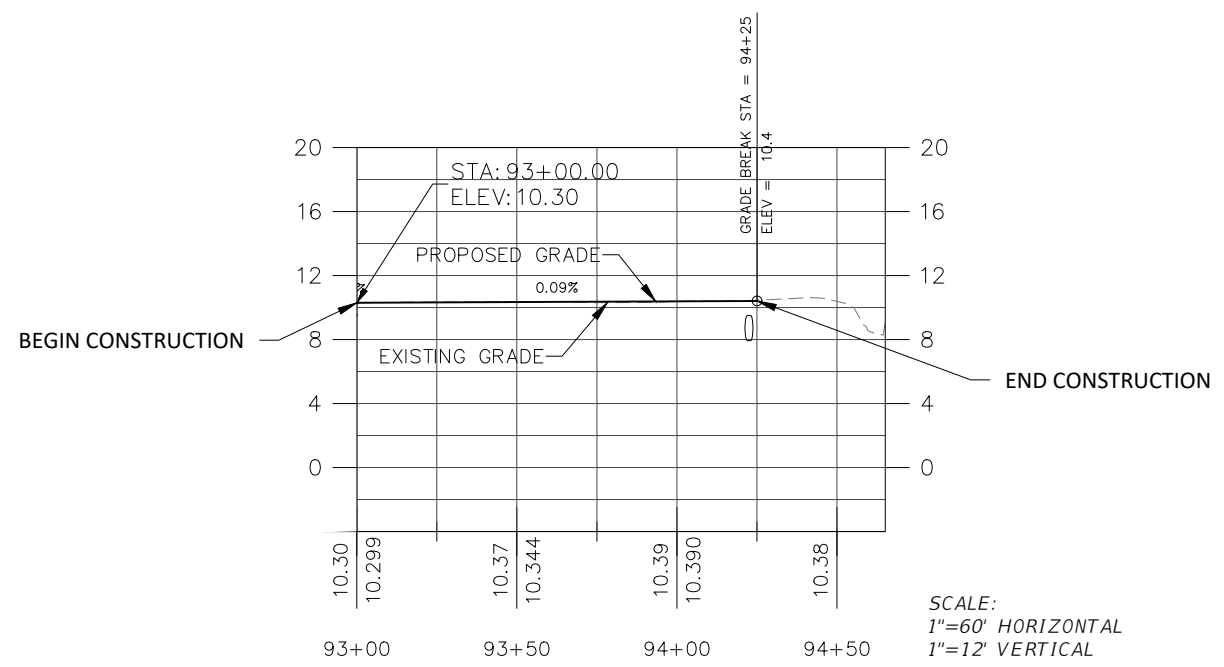
ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE	PLAN AND PROFILE - LOG BRIDGE ROAD
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	C-103



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- NOTES:
1. SEE SHEET D-101 FOR TYPICAL CROSS SECTIONS.
  2. SEE SHEETS C-404 FOR PIPE PROFILES.
  3. REMOVE AND REPLACE EXISTING GATE AT STATION 93+00.
  4. WETLAND BOUNDARY BEGINS AT THE EDGE OF EXISTING ROADS.



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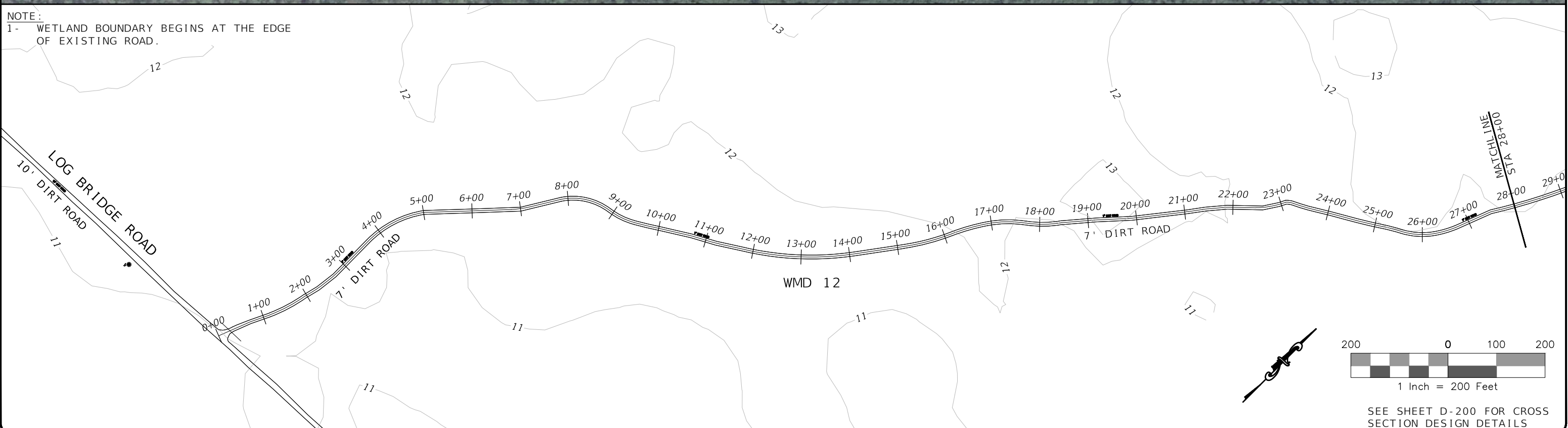
ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE	PLAN AND PROFILE - LOG BRIDGE ROAD
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	C-104



**DATA SOURCES**  
 1- TOPOGRAPHIC INFORMATION COLLECTED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONS LIDAR DATABASE.  
 2- SURVEY GATHERED BY O'NEAL SURVEYING & MAPPING INC.  
 3- IMAGES ARE FDOT AERIAL IMAGES



**NOTE:**  
 1- WETLAND BOUNDARY BEGINS AT THE EDGE OF EXISTING ROAD.



SEE SHEET D-200 FOR CROSS SECTION DESIGN DETAILS

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ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE PLAN VIEW - WMD 12	
PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. C-200

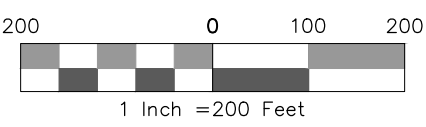
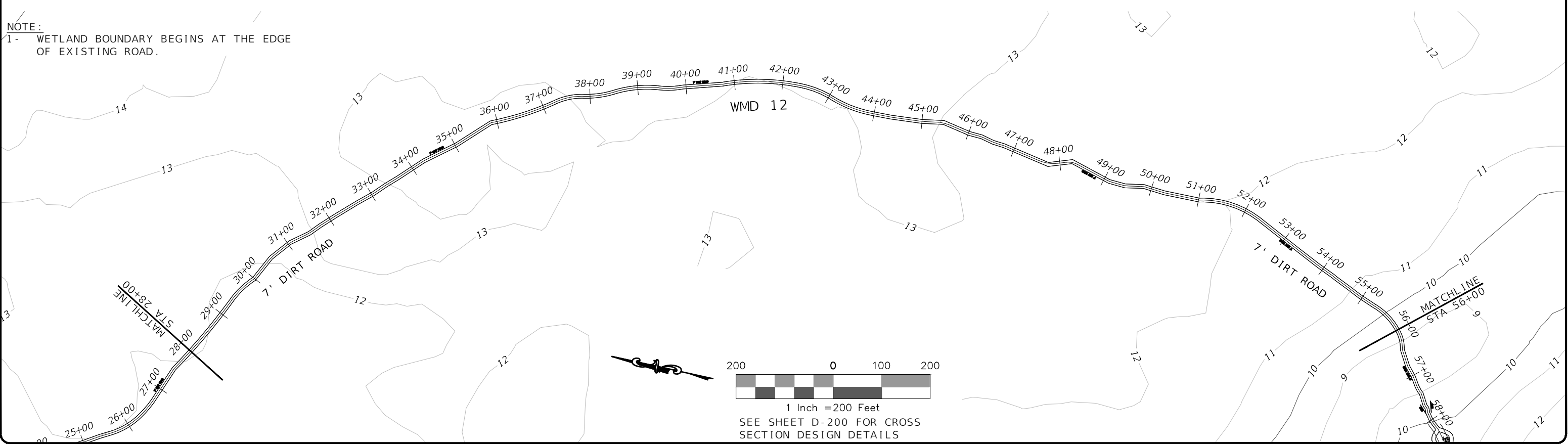
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**DATA SOURCES**  
 1- TOPOGRAPHIC INFORMATION COLLECTED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONS LIDAR DATABASE.  
 2- SURVEY GATHERED BY O'NEAL SURVEYING & MAPPING INC.  
 3- IMAGES ARE FDOT AERIAL IMAGES



**NOTE:**  
 1- WETLAND BOUNDARY BEGINS AT THE EDGE OF EXISTING ROAD.



SEE SHEET D-200 FOR CROSS SECTION DESIGN DETAILS

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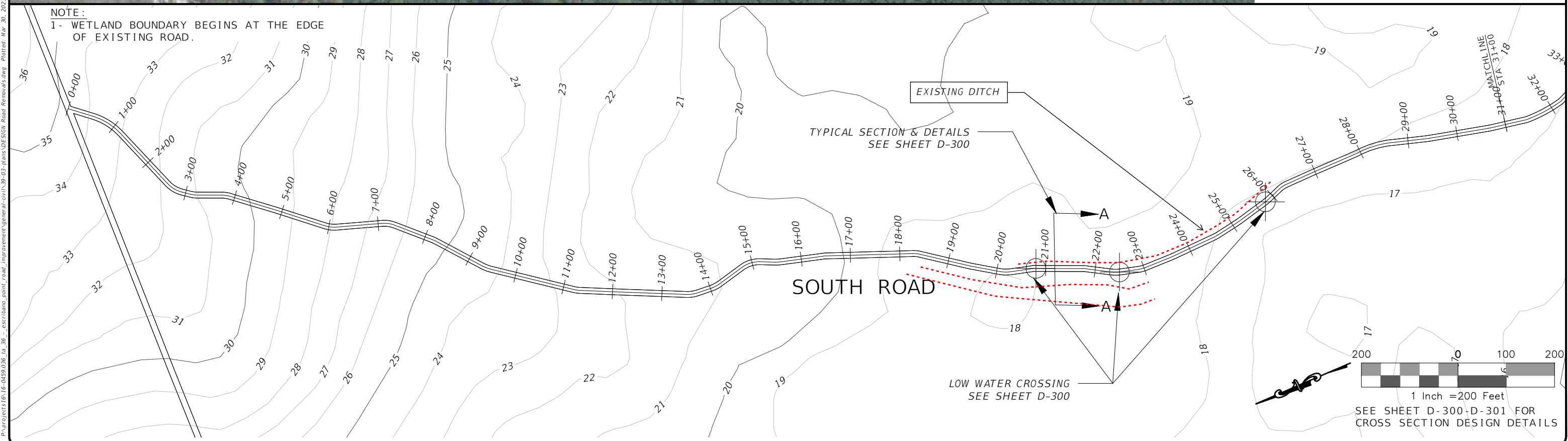
ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE PLAN VIEW - WMD 12	
PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. C-201

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**DATA SOURCES**  
 1- TOPOGRAPHIC INFORMATION COLLECTED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONS LIDAR DATABASE. LIDAR HAS A VERTICAL ACCURACY RANGE OF ±1.2 FEET.  
 2- IMAGES ARE FDOT AERIAL IMAGES



**NOTE:**  
 1- WETLAND BOUNDARY BEGINS AT THE EDGE OF EXISTING ROAD.

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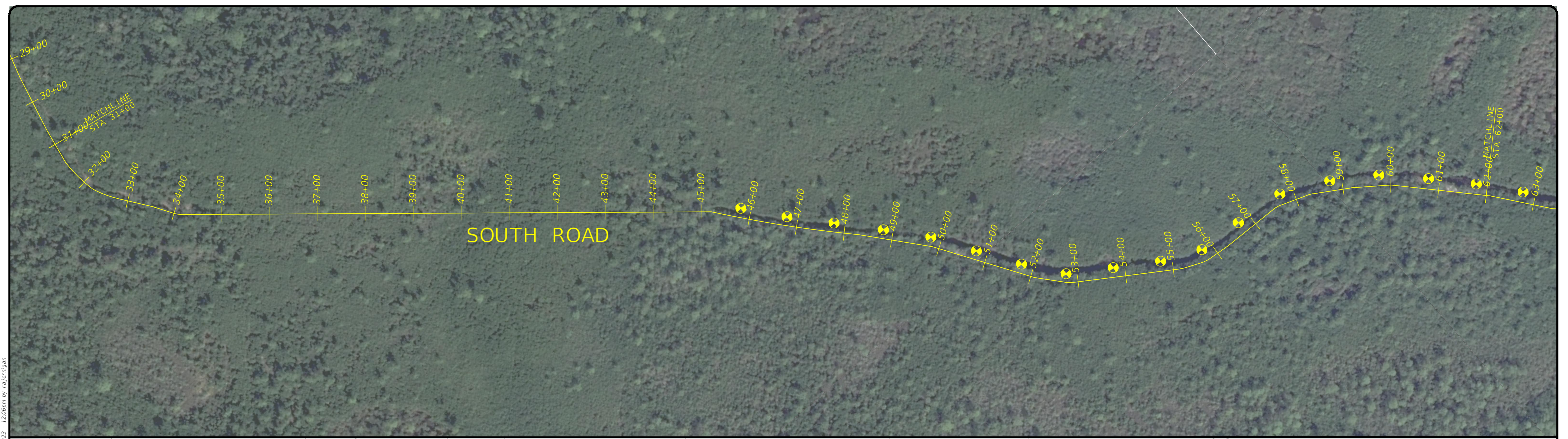
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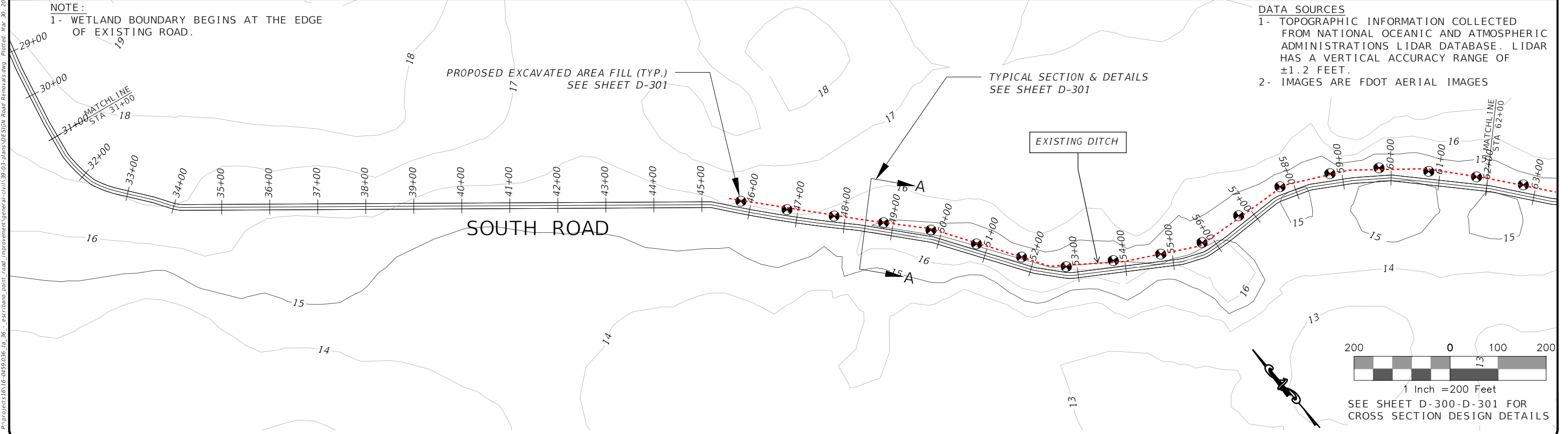
ESCRIBANO POINT WILDLIFE MANAGEMENT AREA  
 SHEET TITLE: **PLAN VIEW - SOUTH ROAD**  
 PROJECT TITLE: **HYDROLOGIC RESTORATION**  
 SHEET NO.: **C-300**





**NOTE:**  
 1- WETLAND BOUNDARY BEGINS AT THE EDGE OF EXISTING ROAD.

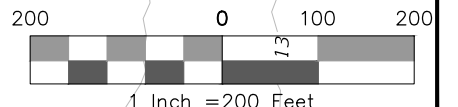
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 2- IMAGES ARE FDOT AERIAL IMAGES



TYPICAL SECTION & DETAILS SEE SHEET D-301

PROPOSED EXCAVATED AREA FILL (TYP.) SEE SHEET D-301

EXISTING DITCH



SEE SHEET D-300-D-301 FOR CROSS SECTION DESIGN DETAILS

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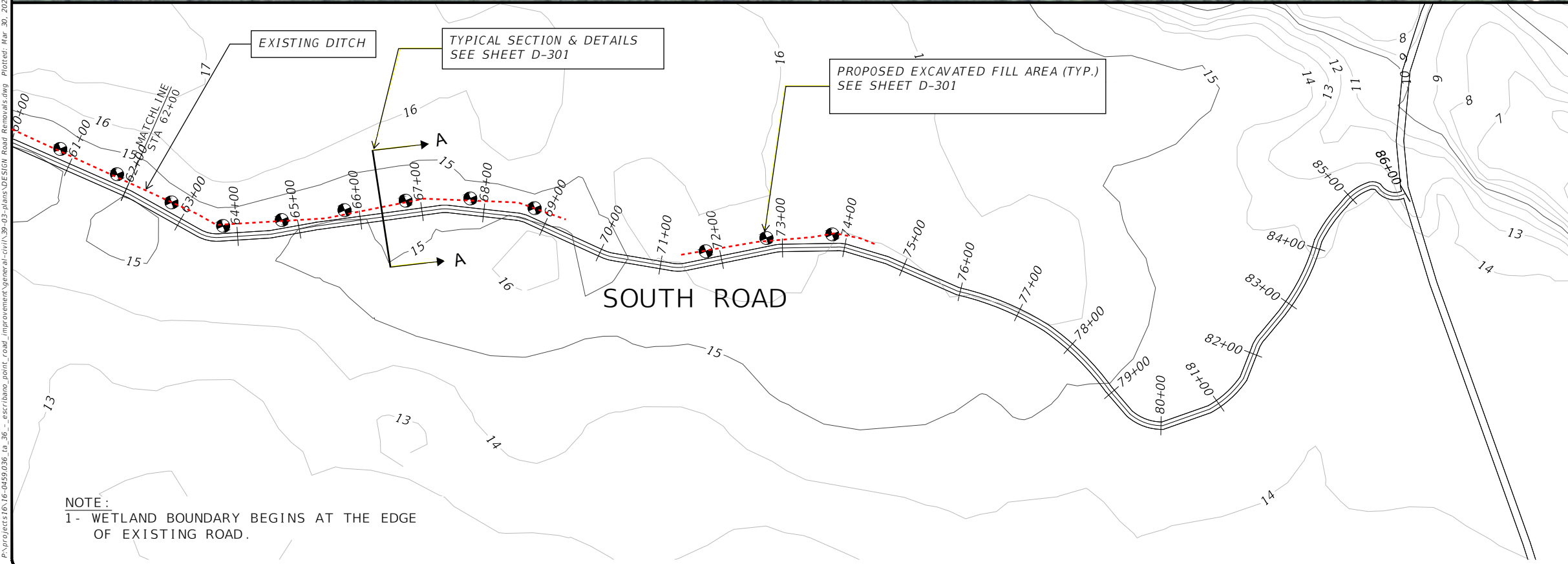
ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE PLAN VIEW - SOUTH ROAD	
PROJECT TITLE HYDROLOGIC RESTORATION	SHEET No. C-301

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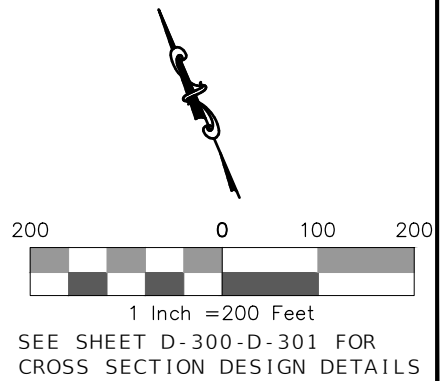




**DATA SOURCES**  
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 2- IMAGES ARE FDOT AERIAL IMAGES



**NOTE:**  
 1- WETLAND BOUNDARY BEGINS AT THE EDGE OF EXISTING ROAD.



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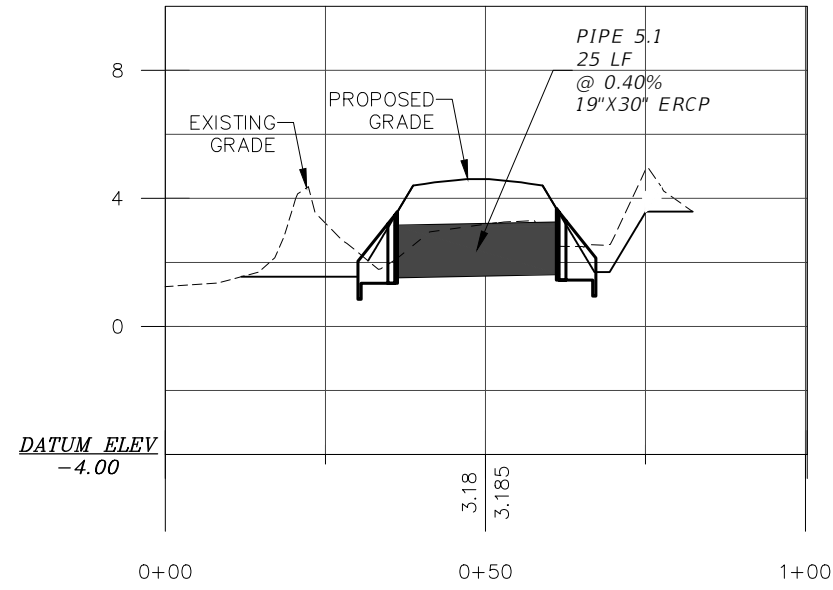
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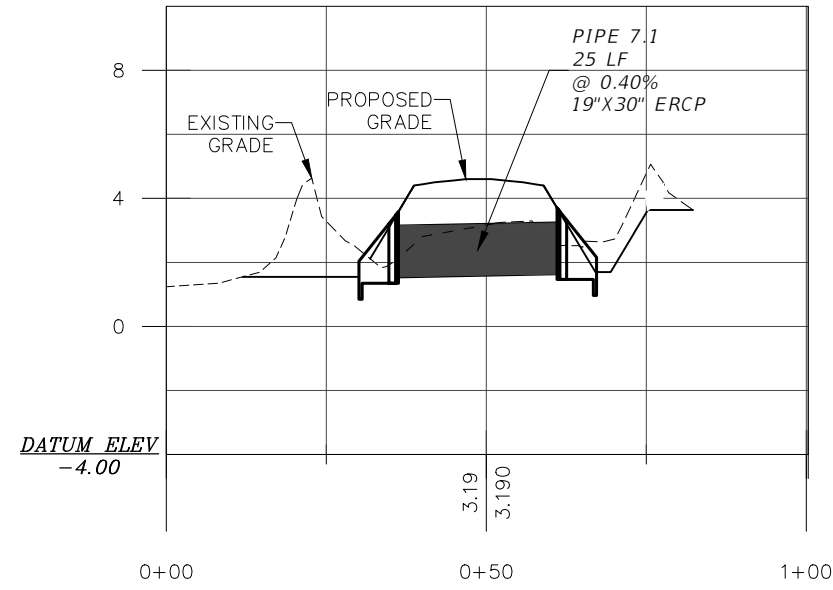
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SHEET TITLE PLAN VIEW - SOUTH ROAD	
PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. C-302

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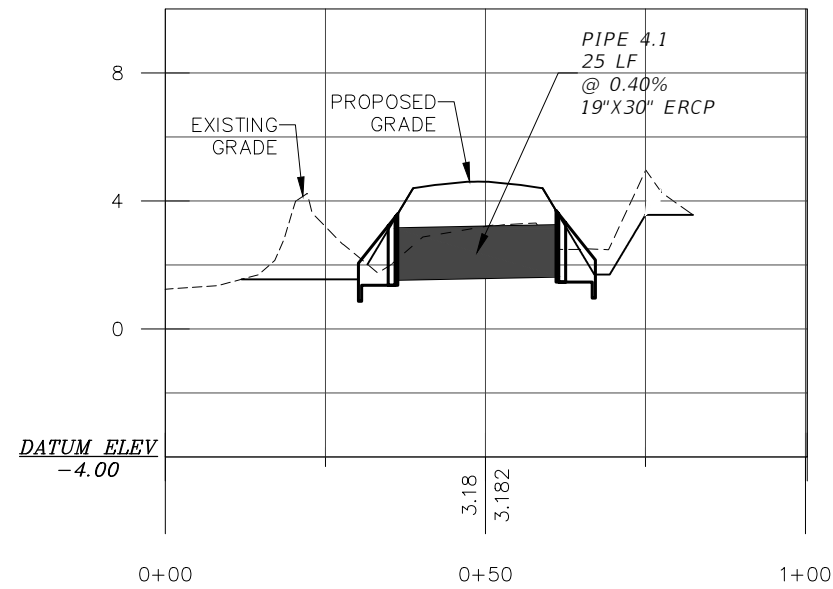
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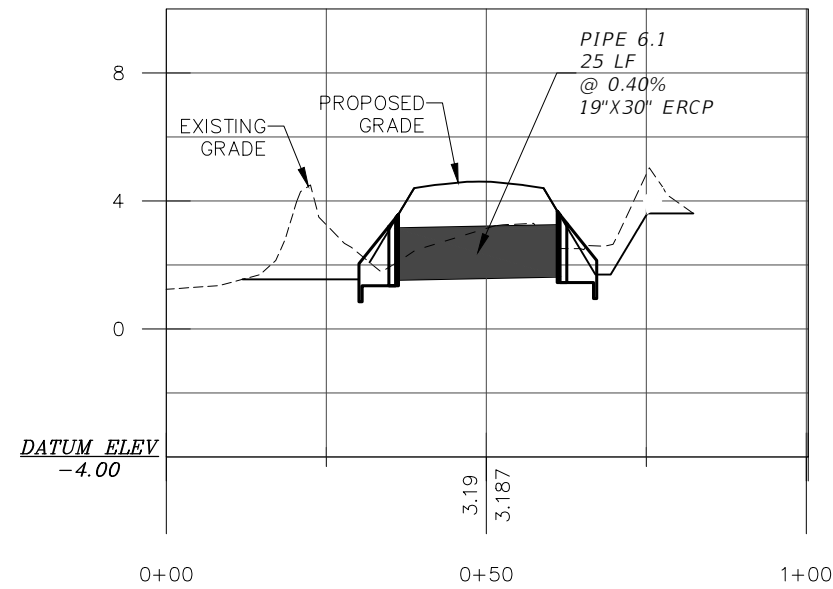
**PIPE 5.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 7.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 4.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 6.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'

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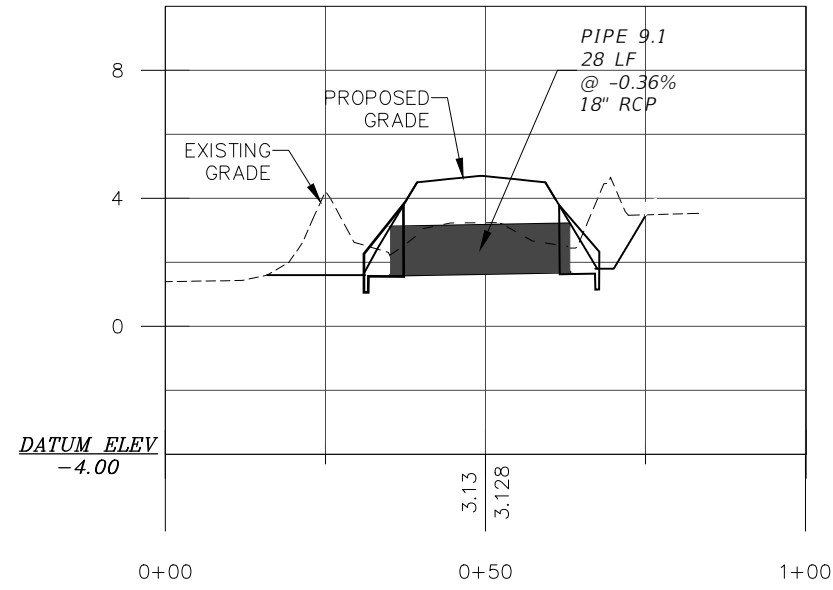
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 CDRP. FILE No. \_\_\_\_\_  
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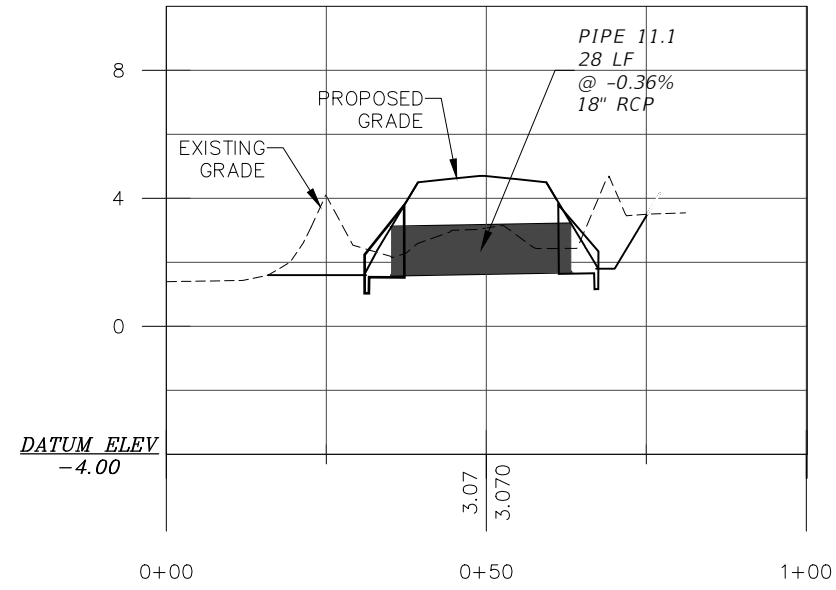
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ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE PIPE PROFILES - LOG BRIDGE ROAD	
PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. C-400

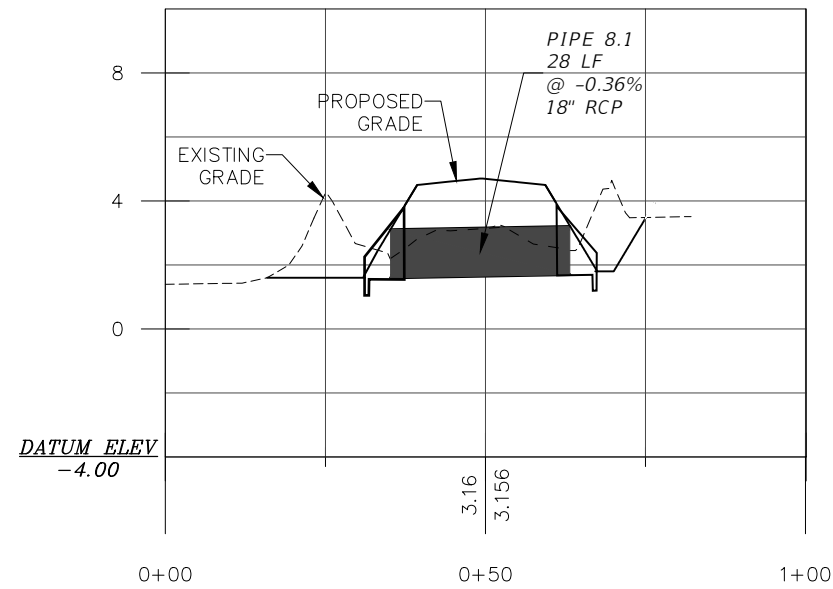
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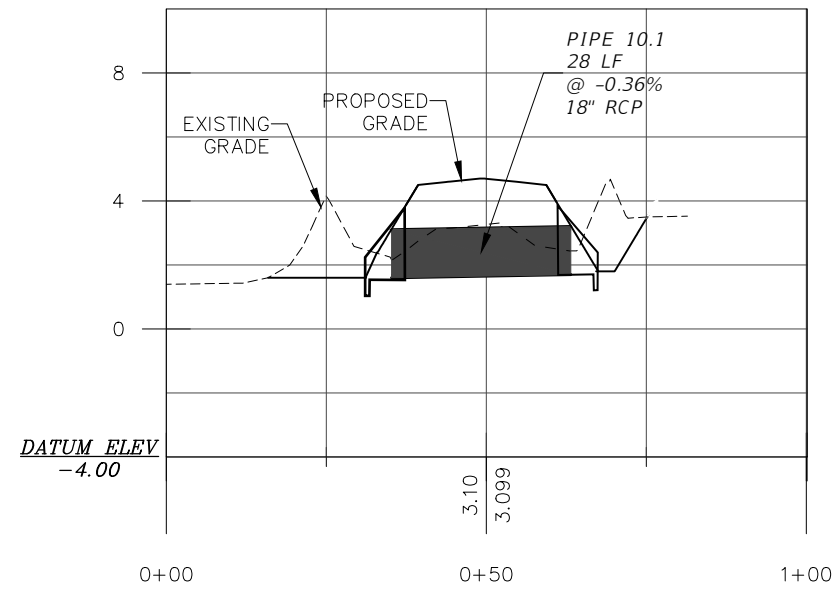
PIPE 9.1 PROFILE  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



PIPE 11.1 PROFILE  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



PIPE 8.1 PROFILE  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



PIPE 10.1 PROFILE  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'

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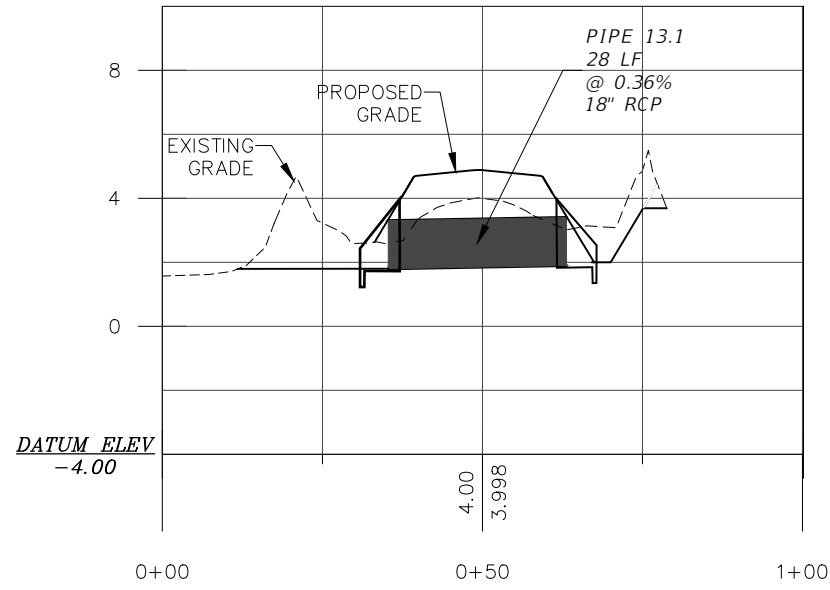
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 DRAWN BY:  
 RAJ  
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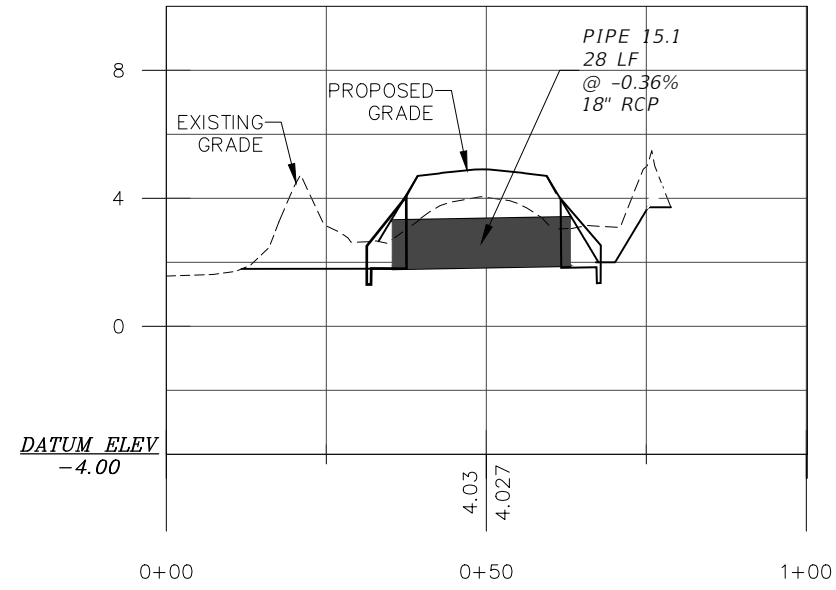
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PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. <b>C-401</b>

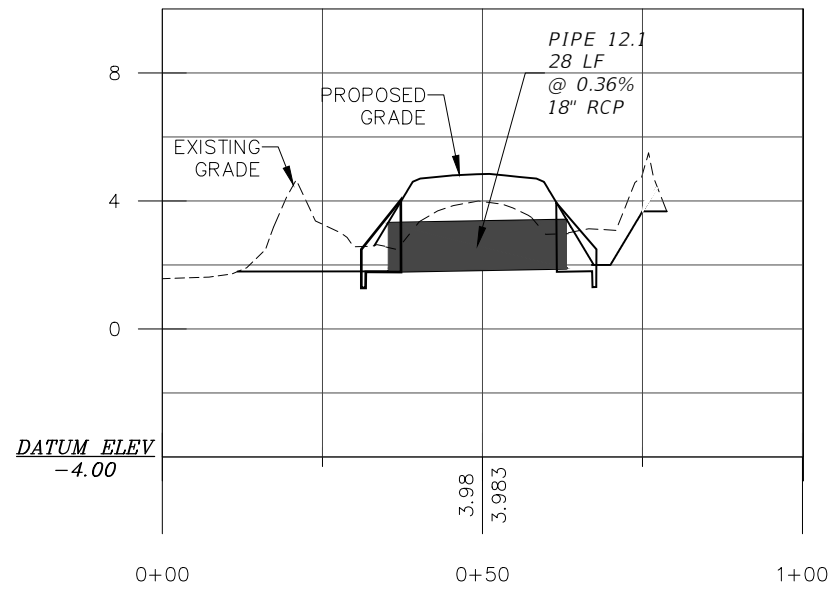
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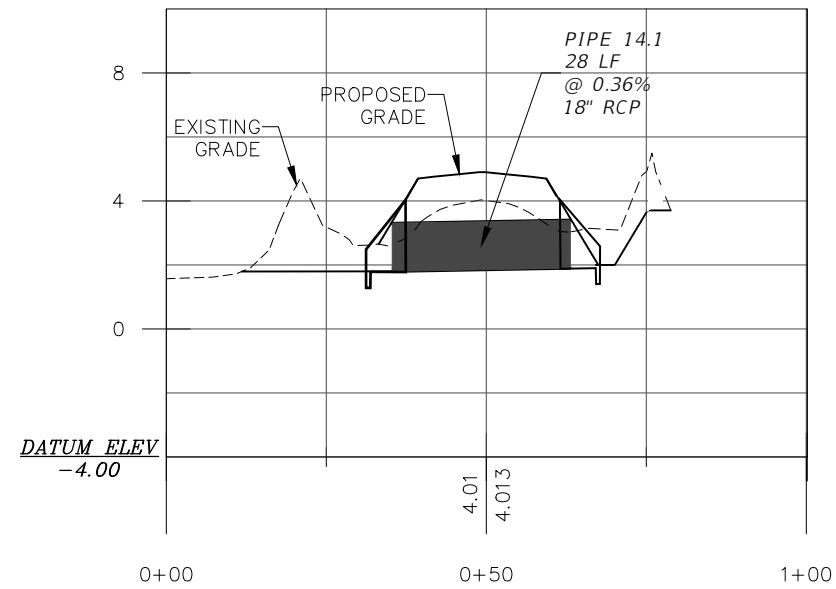
**PIPE 13.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 15.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 12.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 14.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'

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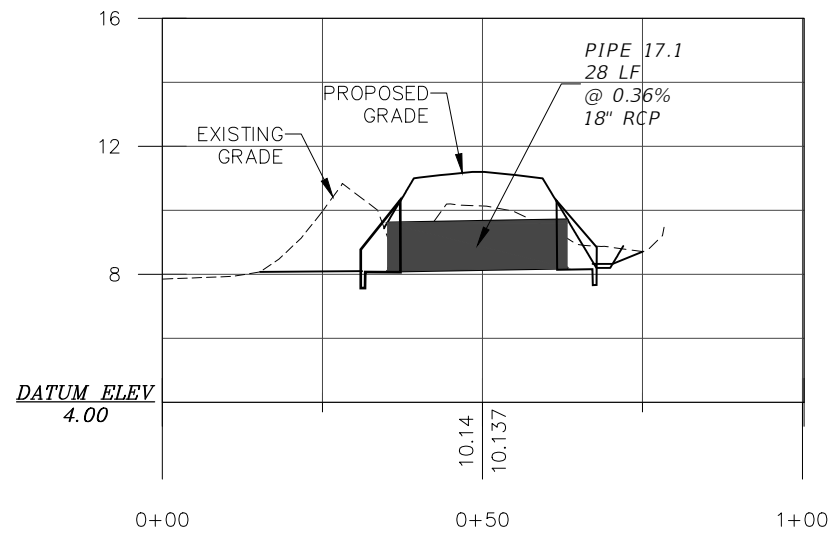
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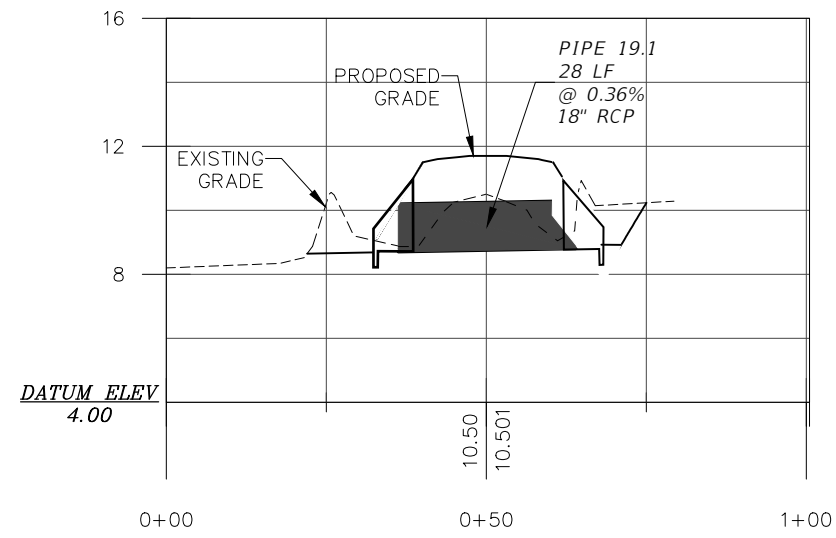
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SHEET TITLE	PIPE PROFILES - LOG BRIDGE ROAD
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	C-402



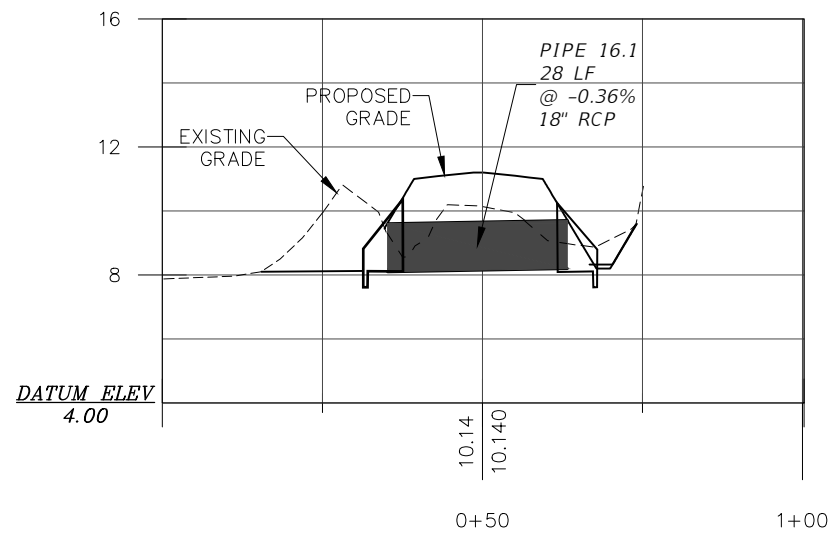
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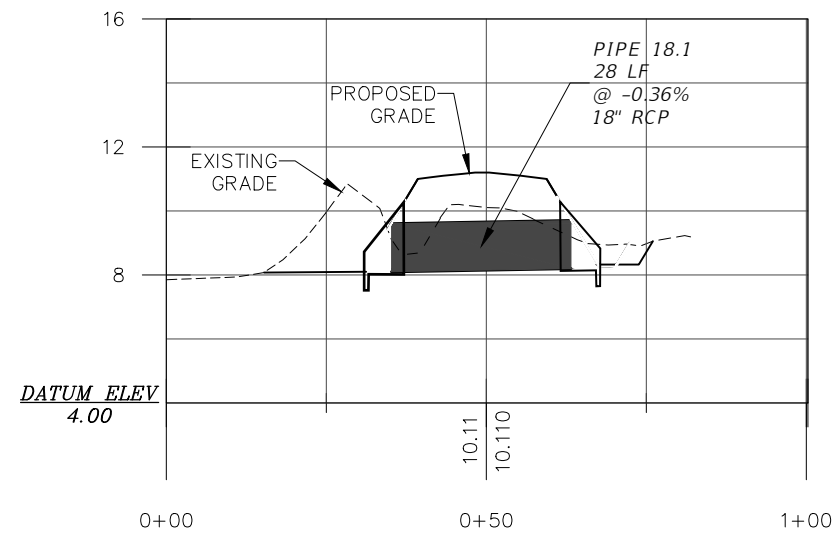
**PIPE 17.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 19.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 16.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 18.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'

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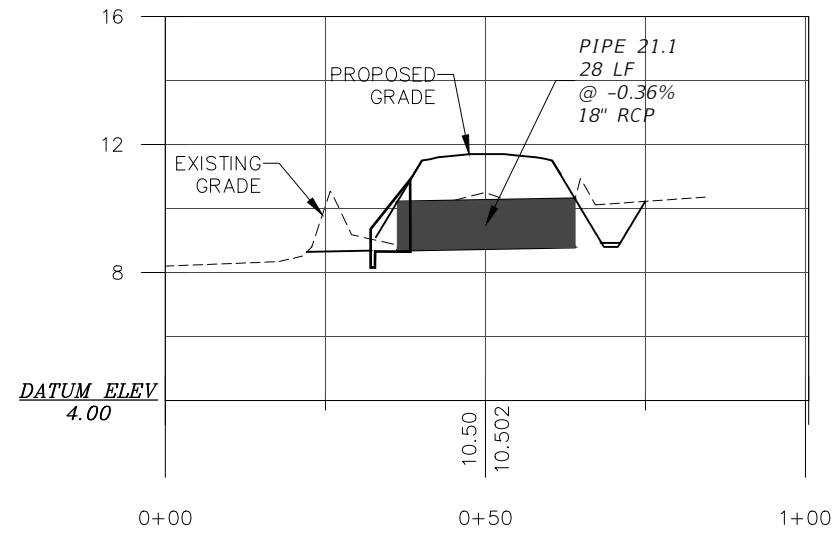
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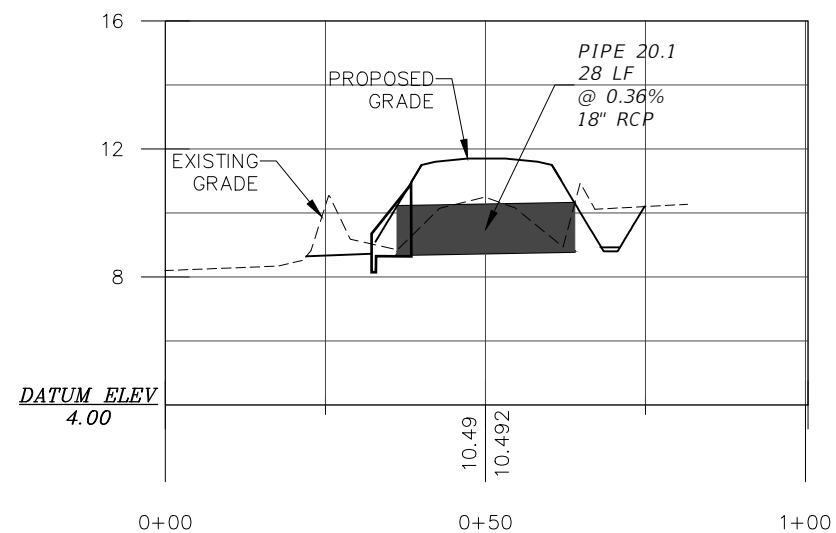
ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE	PIPE PROFILES - LOG BRIDGE ROAD
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	C-403



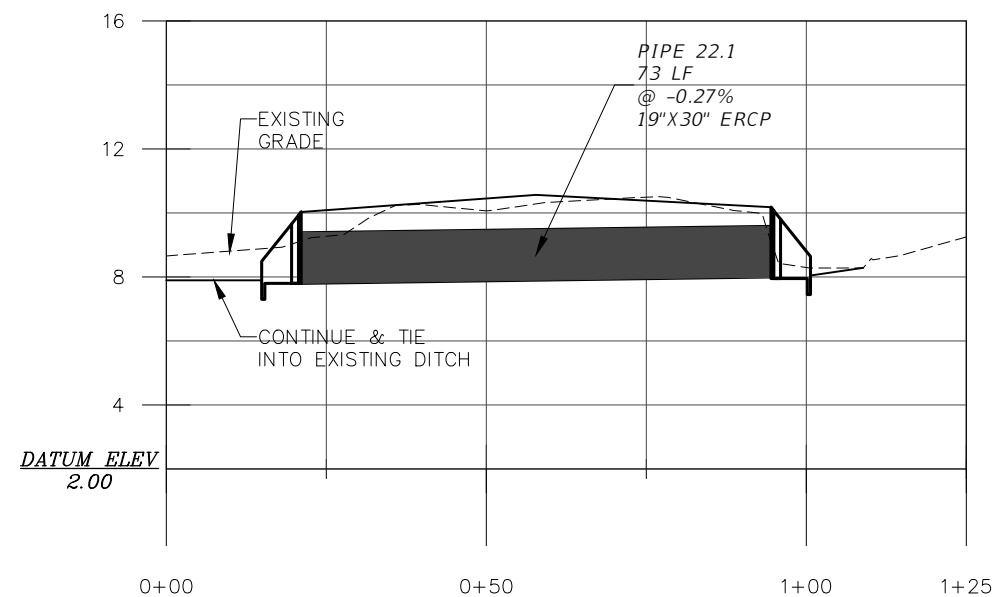
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**PIPE 21.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 20.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'



**PIPE 22.1 PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=6'

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PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. <b>C-404</b>

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1. THE CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE ROUTINE MAINTENANCE ON TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETED AND ACCEPTED.

2. USE OF TEMPORARY EROSION CONTROL FEATURES WILL BE AUTHORIZED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN AT THE TIME OF DESIGN OR TO PROVIDE IMMEDIATE TEMPORARY CONTROL OF EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION OPERATIONS. TEMPORARY EROSION AND WATER POLLUTION CONTROL FEATURES SHALL CONSIST OF, BUT NOT BE LIMITED TO, TEMPORARY GRASSING, TEMPORARY SODDING, TEMPORARY MULCHING (FROM NATIVE SPECIES ONLY), SANDBAGGING, SLOPE DRAINS, SEDIMENT BASINS, SEDIMENT CHECK BERMS, STRAW BALES, FLOATING TURBIDITY BARRIER, STAKED TURBIDITY BARRIER AND SILT FENCE.

SHOULD TEMPORARY GRASSING, SODDING, OR SEEDING BE REQUIRED TO STABILIZE SOIL AND REDUCE EROSION, THE TYPE AND APPLICATION MUST BE APPROVED BY PARK MANAGER PRIOR TO USE.

3. EROSION CONTROL PLAN

a) A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED BY THE CONTRACTOR. CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT AS THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. CONTRACTOR SHALL PROVIDE STRAW BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.

b) THE CONTRACTOR SHALL PREPARE A SWPPP DOCUMENT IN ACCORDANCE WITH THE NPDES REQUIREMENTS OUTLINED BY THE US ENVIRONMENTAL PROTECTION AGENCY AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

c) THE CONTRACTOR SHALL PROVIDE CONTINUOUS MONITORING OF EROSION AND SEDIMENT CONTROLS AND SHALL DOCUMENT ALL CORRECTIVE MEASURES TAKEN.

d) THE APPROVED SWPPP SHALL BE EXECUTED BY THE CONTRACTOR AND THE DOCUMENT SHALL BE KEPT ON SITE AT ALL TIMES FOR REVIEW BY THE OWNER'S REPRESENTATIVE AND BY NPDES INSPECTORS.

4. STOCKPILING MATERIAL

NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY. STOCKPILE MATERIAL SHALL HAVE EROSION CONTROLS ON THREE(3) DOWNHILL SIDE SLOPES.

5. EXPOSED AREA LIMITATION

THE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING SHALL NOT EXCEED 6 ACRES SO LONG AS THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

6. INLET PROTECTION

INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

7. TEMPORARY SEEDING

AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDING WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED, AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 LBS. PER ACRE.

8. TEMPORARY SEEDING AND MULCHING

SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN 4 ABOVE, SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATE 2 INCHES LOOSE MEASURE OF MULCH MATERIAL OUT INTO THE SOIL OF SEEDING AREA TO A DEPTH OF FOUR INCHES. SEE NOTE 2.

9. TEMPORARY GRASSING

THE SEEDING AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. SEE NOTE 2.

10. TEMPORARY REGRASSING

IF AFTER FOURTEEN DAYS, THE TEMPORARY GRASSING AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER. SEE NOTE 2.

11. MAINTENANCE

ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.

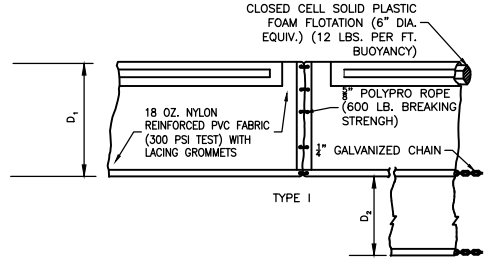
12. DUST ABATEMENT

DUST SHALL BE CONTROLLED WITH THE USE OF WATER AND CALCIUM CHLORIDE.

13. TEMPORARY ROCK CHECK DAM

TEMPORARY ROCK CHECK DAM SHALL BE INSTALLED PRIOR TO ANY WORK IN DITCH, AND SHALL BE REMOVED UPON CLEAN-UP.

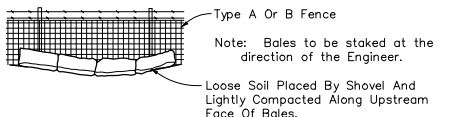
USE OF TEMPORARY EROSION CONTROL FEATURES WILL BE AUTHORIZED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN AT THE TIME OF DESIGN OR TO PROVIDE IMMEDIATE TEMPORARY CONTROL OF EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION OPERATIONS. TEMPORARY EROSION AND WATER POLLUTION CONTROL FEATURES SHALL CONSIST OF BUT NOT BE LIMITED TO, TEMPORARY GRASSING, TEMPORARY SODDING, TEMPORARY MULCHING, SANDBAGGING, SLOPE DRAINS, SEDIMENT BASINS, SEDIMENT CHECK BERMS, BALED STRAW OR STRAW, FLOATING TURBIDITY BARRIER, STAKED TURBIDITY BARRIER AND SILT FENCE. THE CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE ROUTINE MAINTENANCE ON



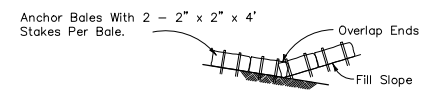
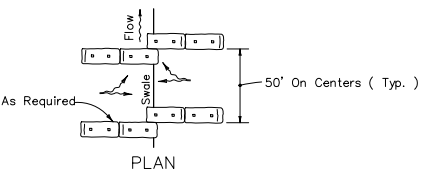
D<sub>1</sub> = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).  
D<sub>2</sub> = 5' STD. (ADDITIONAL PANEL FOR DEPTHS 5').  
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.  
TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

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

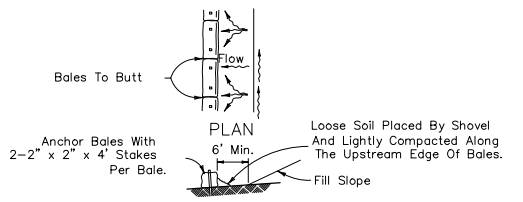
TURBIDITY BARRIER DETAIL



BALES BACKED BY FENCE

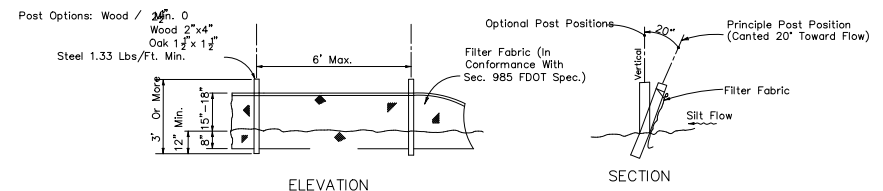


TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



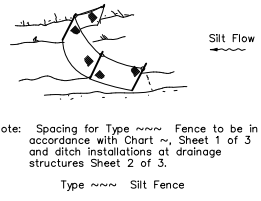
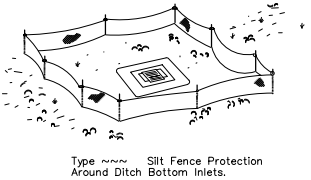
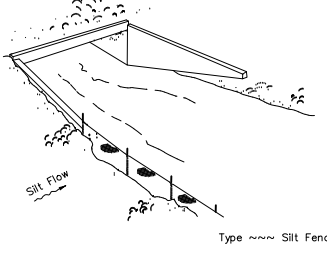
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES



Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

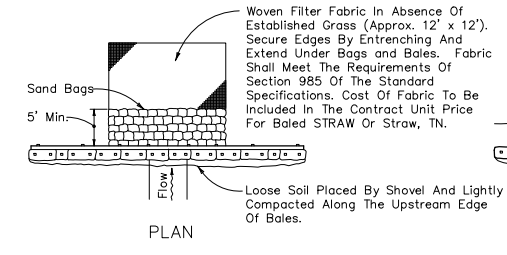
TYPE ~~~ SILT FENCE



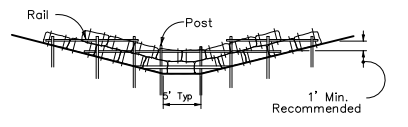
Note: Spacing for Type ~~~ Fence to be in accordance with Chart ~, Sheet 1 of 3 and ditch installations at drainage structures Sheet 2 of 3.

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS



PLAN

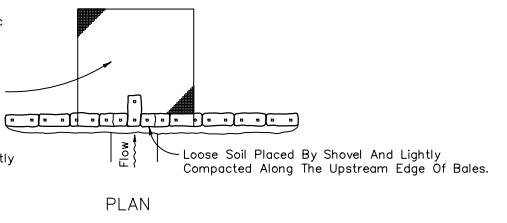


ELEVATION

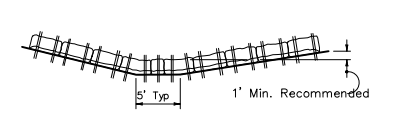
Anchor Lower Bales With 2 - 2" x 2" x 4" Stakes Per Bale.  
Anchor Top Bales To Lower Bales With 2 - 2" x 2" x 4" Stakes Per Bale.

TYPE II

Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in Chart 1, Sheet 1 of 3, Index No. 102



PLAN



ELEVATION

Anchor Bales With 2 - 2" x 2" x 4" Stakes Per Bale

TYPE I

BARRIER FOR UNPAVED DITCHES  
BALED STRAW OR STRAW BARRIER  
AND SILT FENCES

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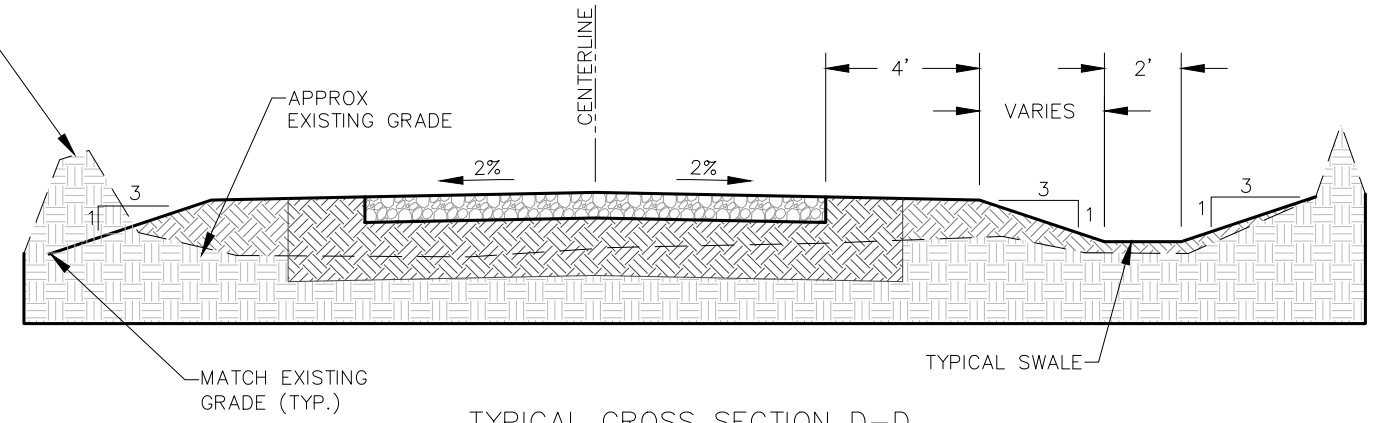
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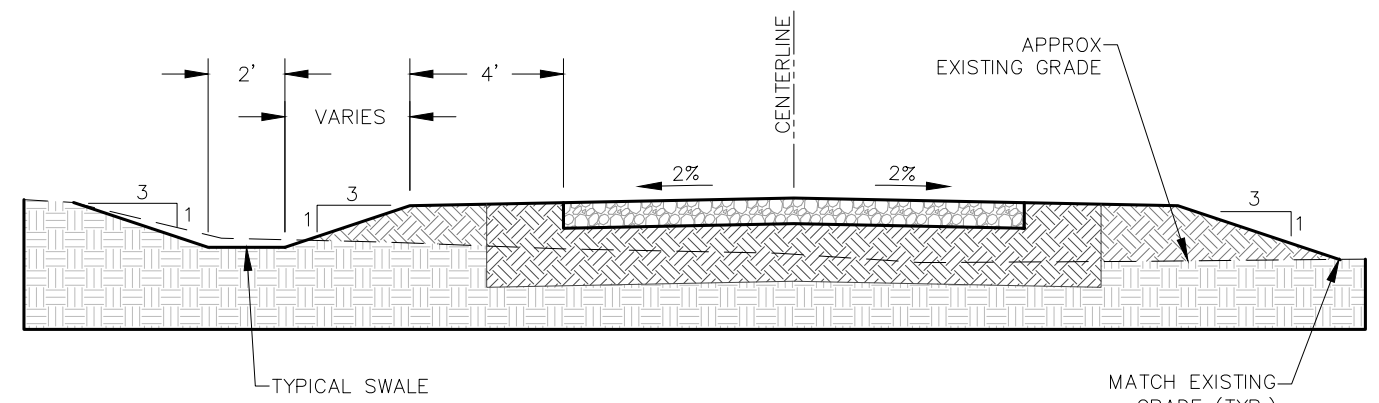
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SHEET TITLE: **EROSION CONTROL DETAILS - LOG BRIDGE ROAD**  
PROJECT TITLE: **HYDROLOGIC RESTORATION**  
SHEET NO. **D-100**

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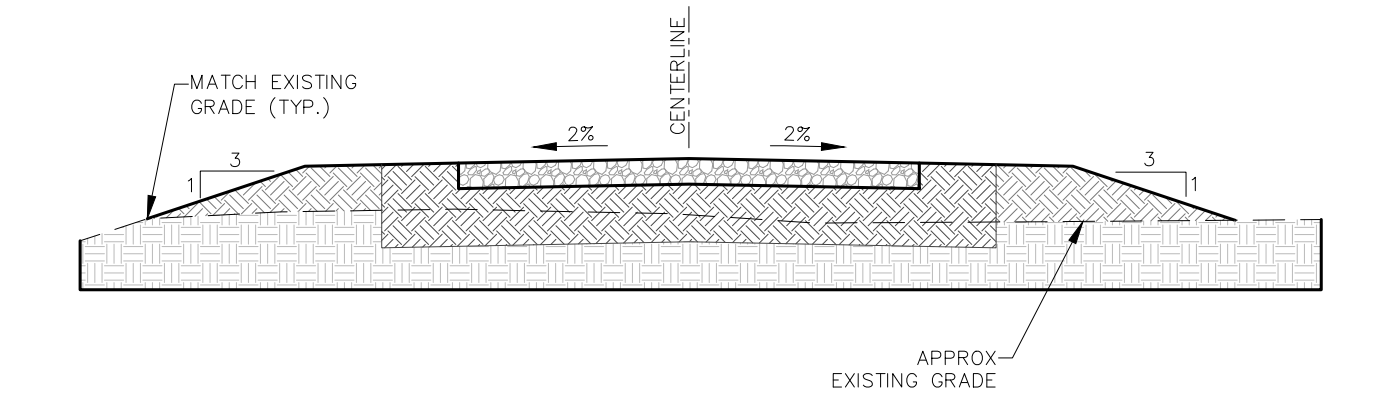
EXISTING BERM - REMOVE AND USE MATERIAL AS FILL ON WMD-12 SEE NOTE 1 ON SHEET D-200



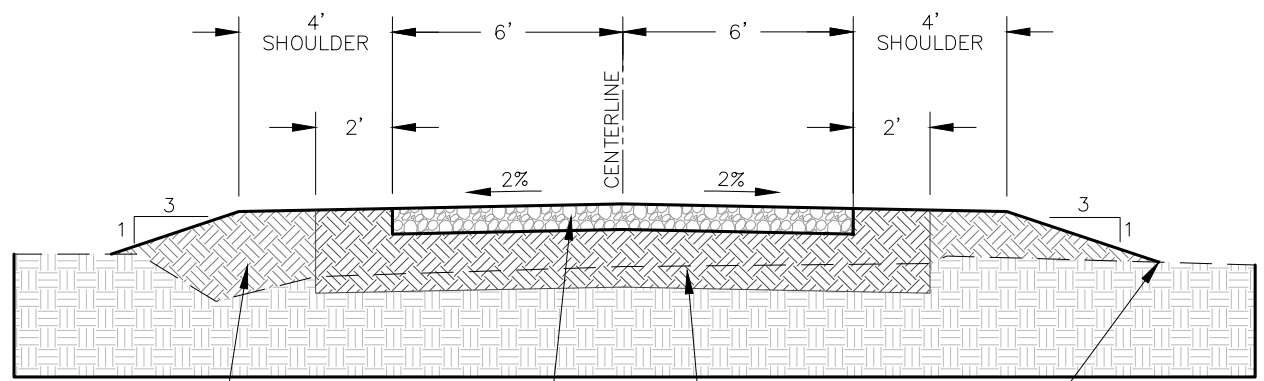
TYPICAL CROSS SECTION D-D



TYPICAL CROSS SECTION C-C



TYPICAL CROSS SECTION B-B



TYPICAL CROSS SECTION

CLEAN FILL (MATERIAL TO BE APPROVED BY FFCC)

8" CRUSHED CONCRETE PER FDOT INDEX 514 SPECIFICATIONS (RECYCLED CONCRETE AGGREGATE) (MATERIAL TO BE APPROVED BY FFCC)

18" COMPACTED SUBBASE (AASHTO A1 OR A3 GRANULAR SOIL) TO 98% STANDARD PROCTOR PER FDOT INDEX 505 SPECIFICATIONS (MATERIAL TO BE APPROVED BY FFCC)

MATCH EXISTING GRADE (TYP.)

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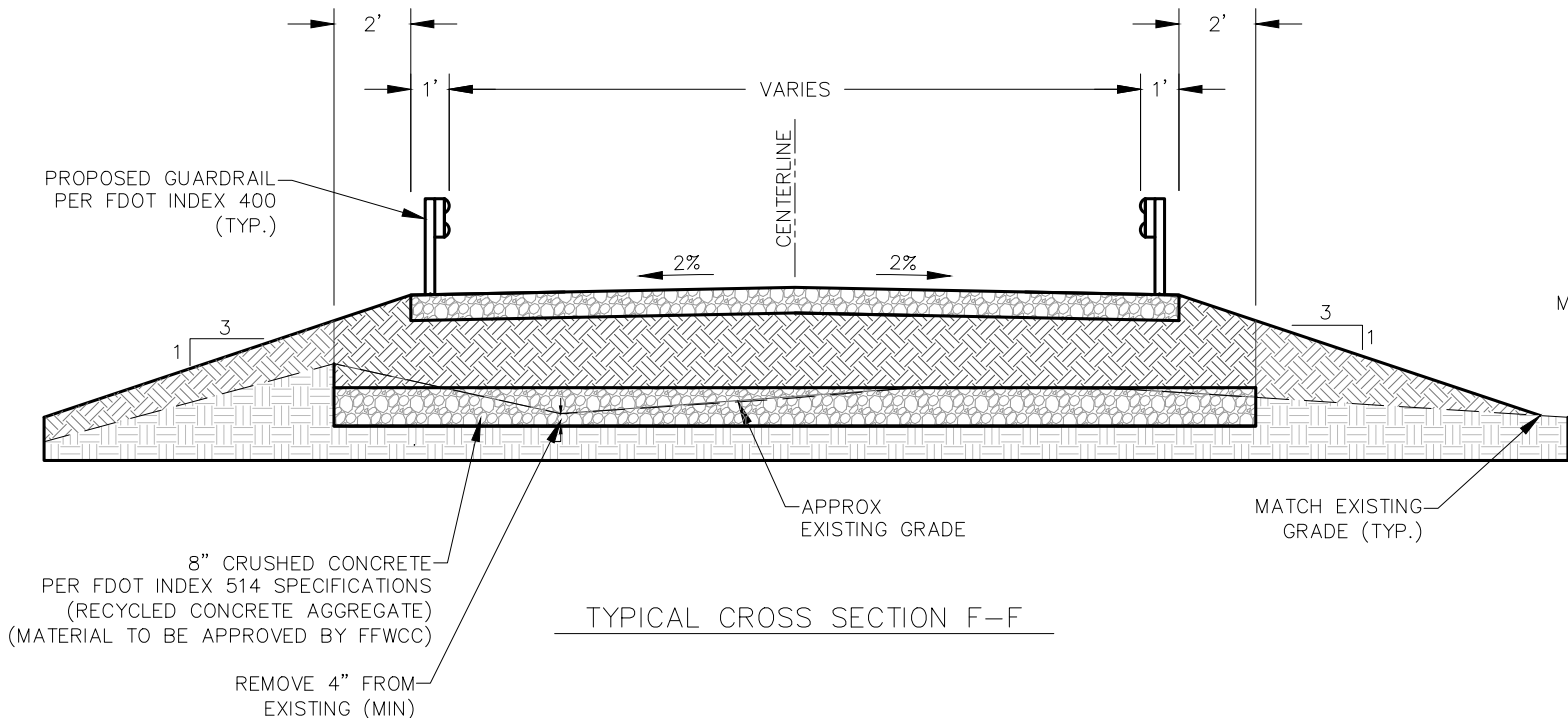
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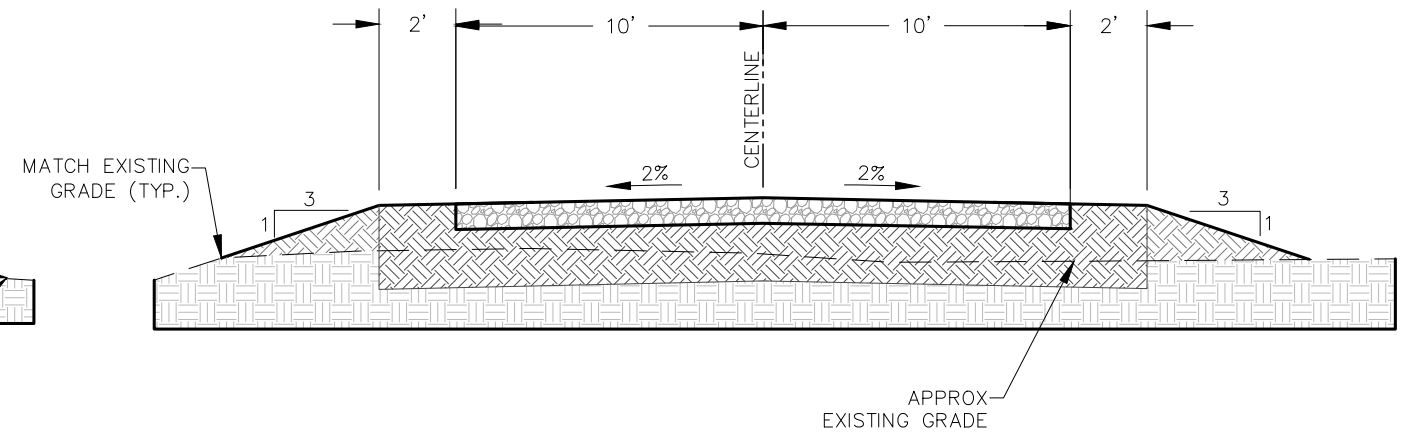
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SHEET TITLE CONSTRUCTION DETAILS - LOG BRIDGE ROAD	
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	D-101

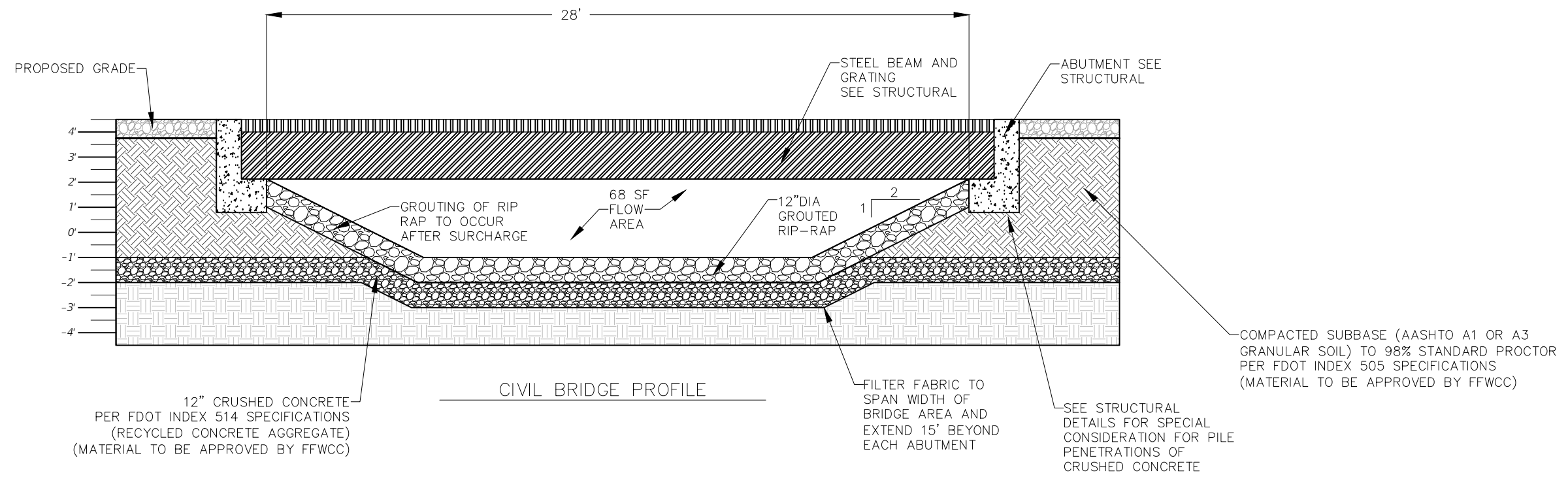
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TYPICAL CROSS SECTION F-F



TYPICAL CROSS SECTION E-E



CIVIL BRIDGE PROFILE

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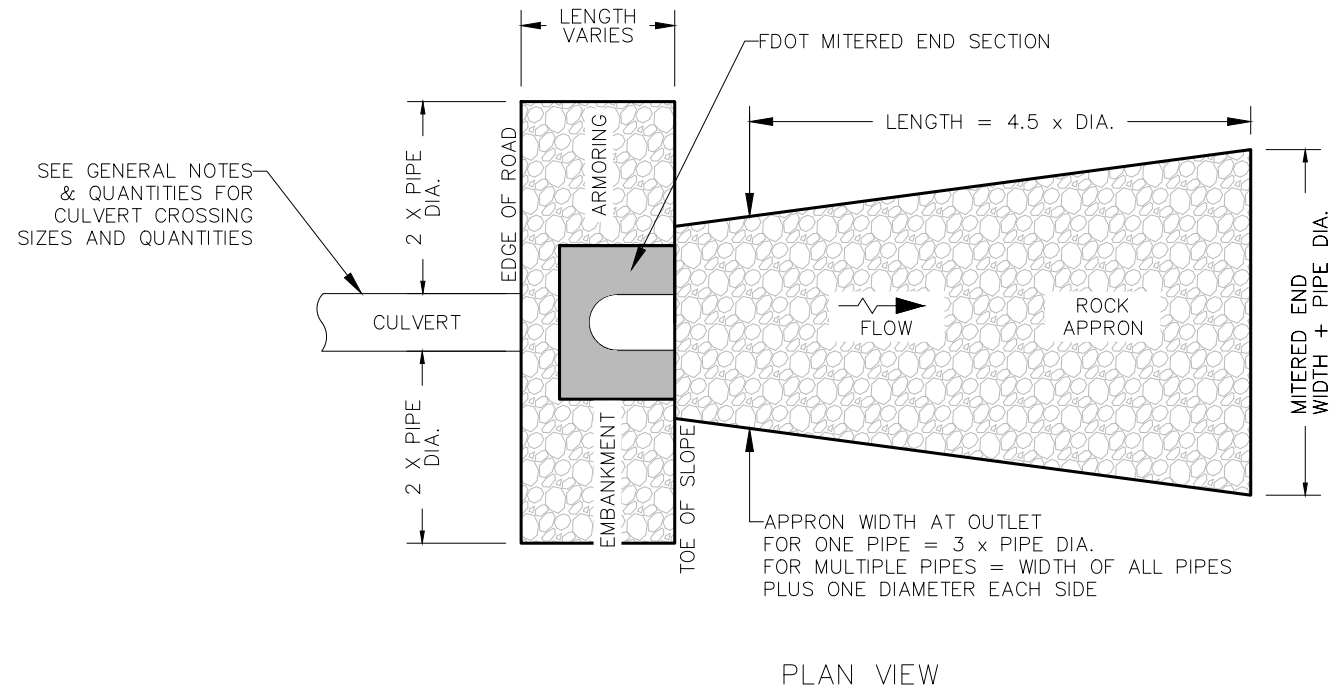
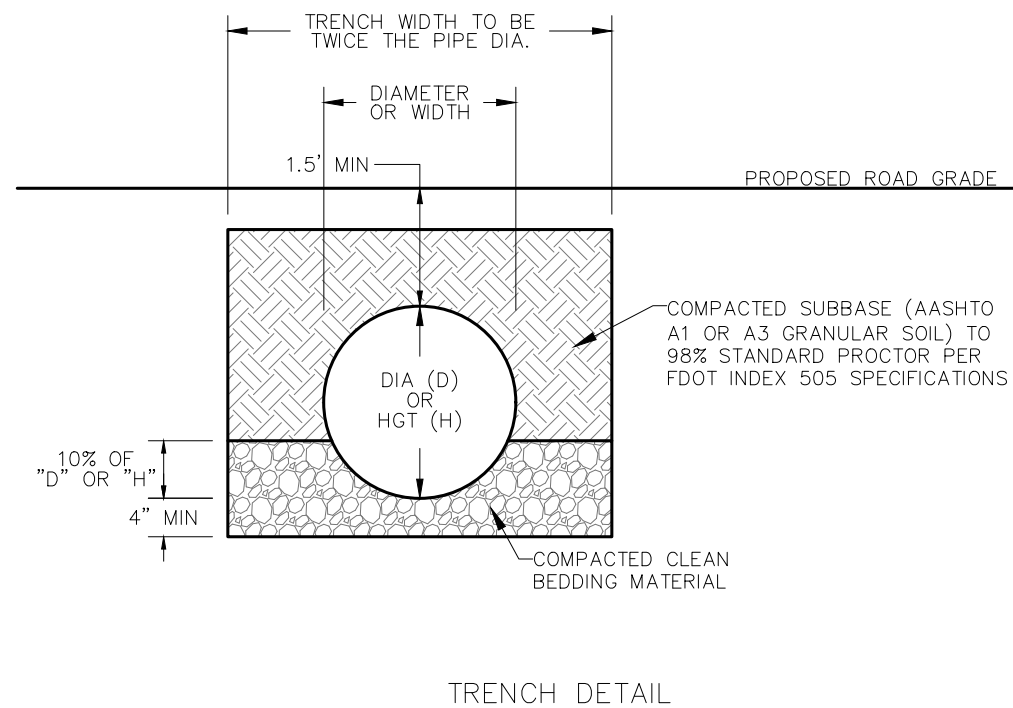
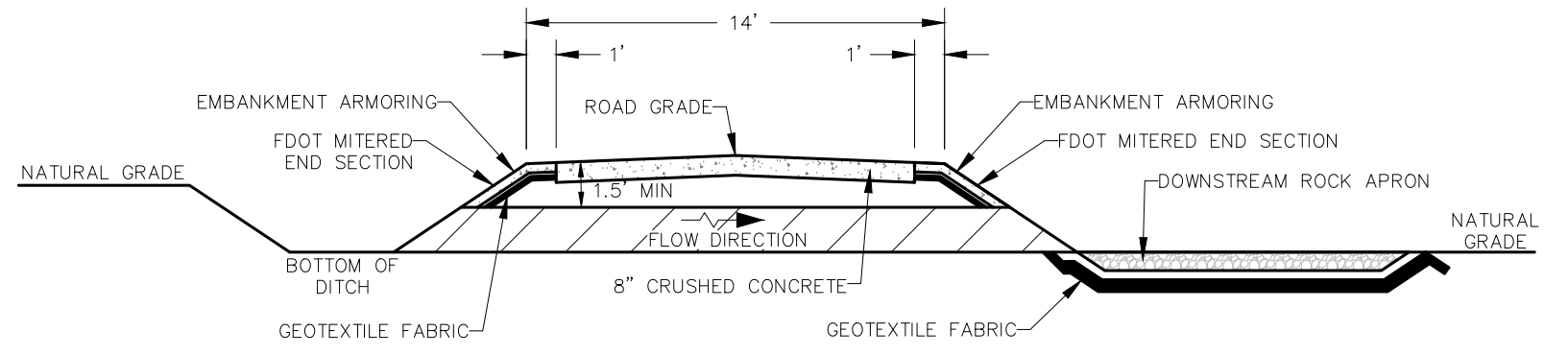
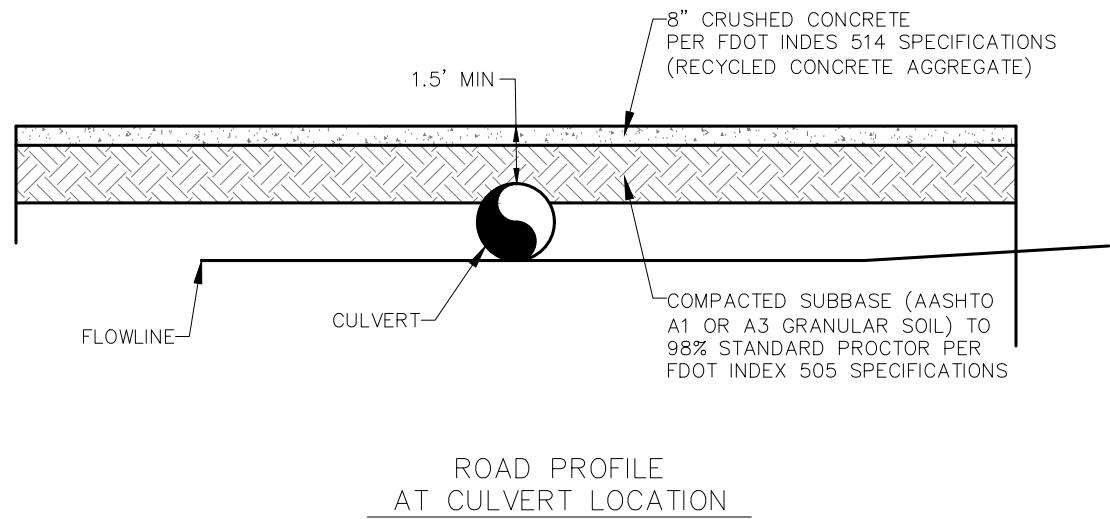
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ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE CONSTRUCTION DETAILS - LOG BRIDGE ROAD	
PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. D-102

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CULVERT CROSSING DETAILS

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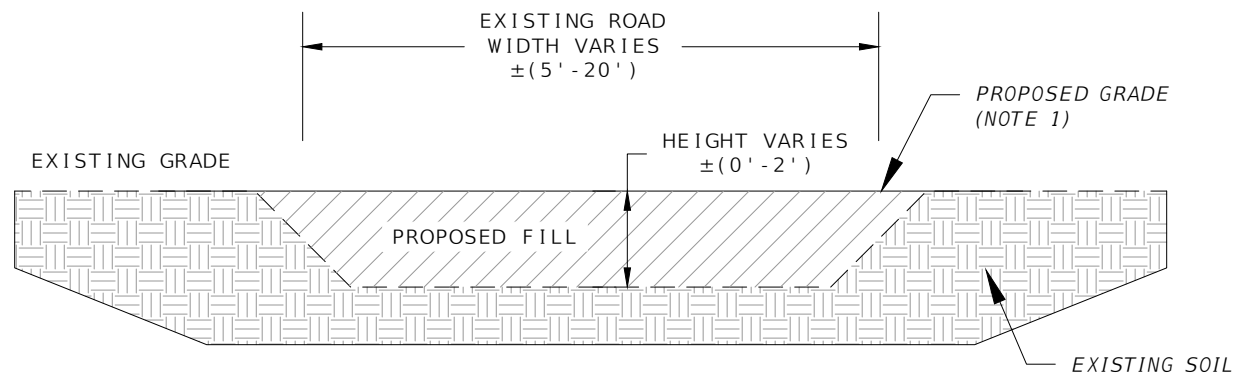
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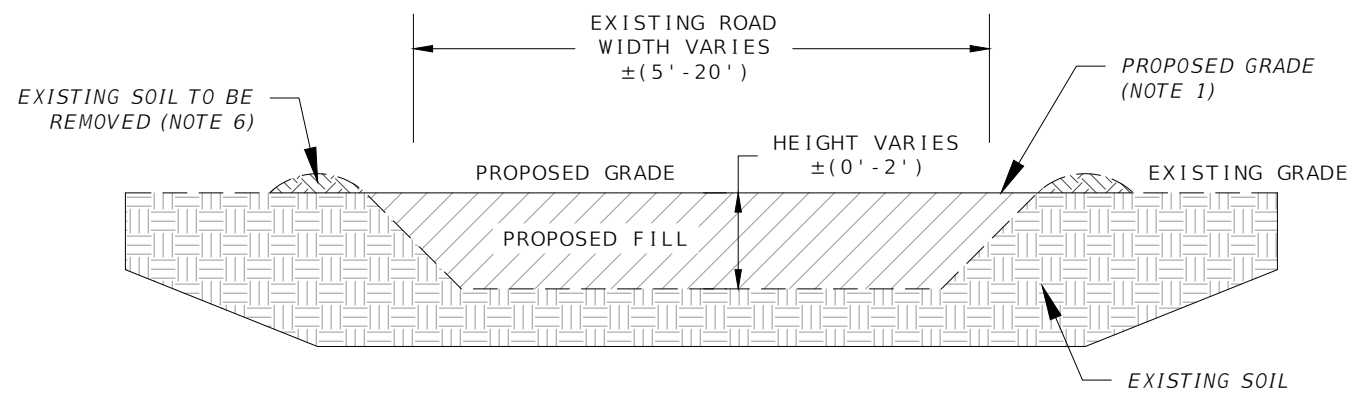
ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE	CONSTRUCTION DETAILS - LOG BRIDGE ROAD
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	D-103



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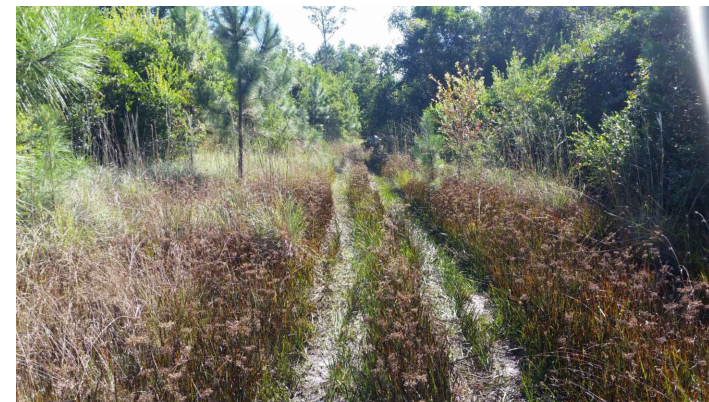


TYPICAL ROAD SECTION 1  
NOT TO SCALE

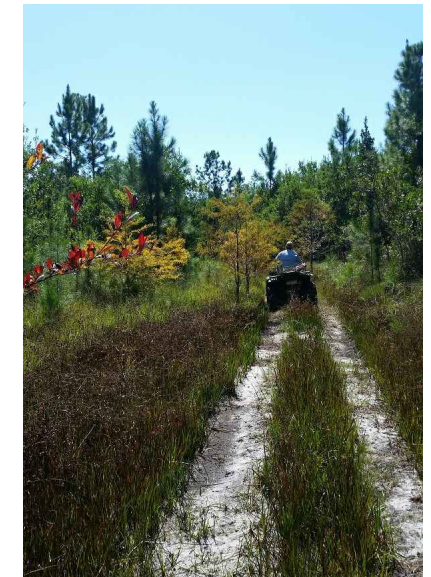


TYPICAL ROAD SECTION 2  
NOT TO SCALE

- CONSTRUCTION NOTES**
1. CONTRACTOR SHALL FILL EXISTING ROAD LOW SPOTS WITH SOIL AND DEBRIS FROM BERMS ALONG BOTH SIDES OF LOG BRIDGE ROAD.
  2. SOIL AND DEBRIS SHALL BE ROUGH GRADED TO LEVEL OUT ROAD HOLES TO MATCH SURROUNDING GRADE ELEVATIONS.
  3. FILL SHALL START ON THE NORTHWEST END OF WMD 12 ROAD AT THE INTERSECTION OF LOG BRIDGE ROAD AND CONTINUE SOUTHEAST AS FAR AS POSSIBLE.
  4. THE EXISTING BERM LOCATED ON THE PLANS SHALL BE GRADED FLAT TO MATCH EXISTING GRADING NORTH AND SOUTH OF THE BERM.
  5. EXCESS SOIL FROM BERM REGRADING SHALL BE USED TO FILL LOW SPOTS IN WMD 12.
  6. ANY BERMS THAT EXIST ALONG EITHER SIDE OF THE ROAD SHALL BE REGRADED TO ALLOW STORMWATER TO FLOW SOUTHWEST INTO THE ROAD AND DOWN HILL.
  7. ALL DISTURBED AREAS SHALL BE SEEDED WITH A LOCAL GRASS MIX TO BE DETERMINED BY OWNER



TYPICAL ROAD SECTION 1



TYPICAL ROAD SECTION 2



STREAM CROSSING

CONSTRUCTION DETAILS  
WMD 12 ROAD

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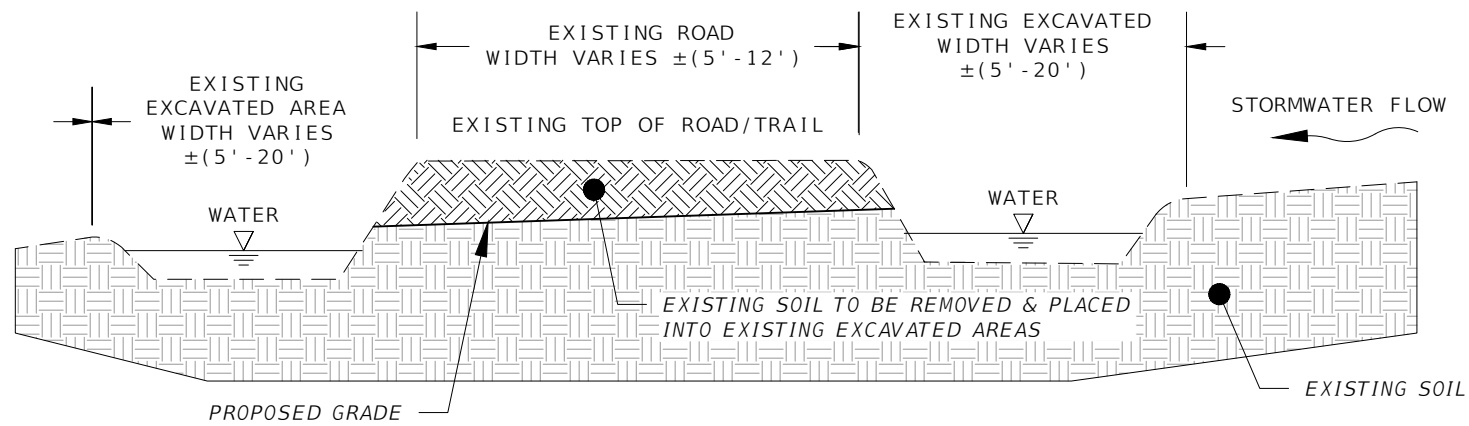
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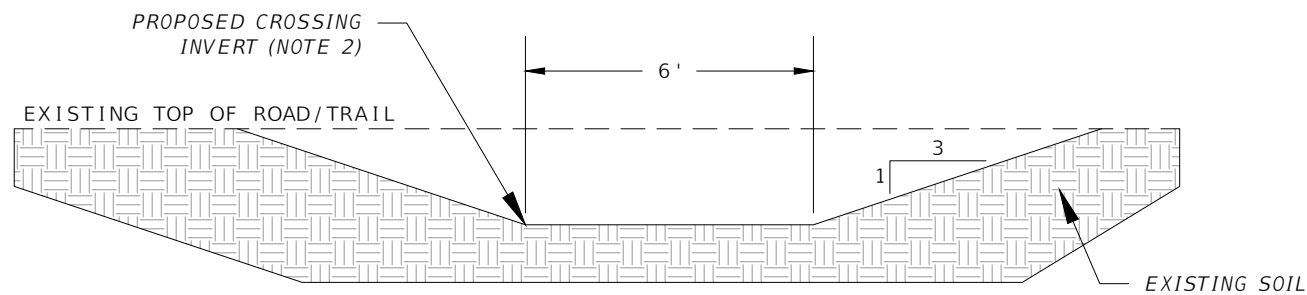
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SHEET TITLE	CONSTRUCTION DETAILS - WMD 12 ROAD
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	D-200

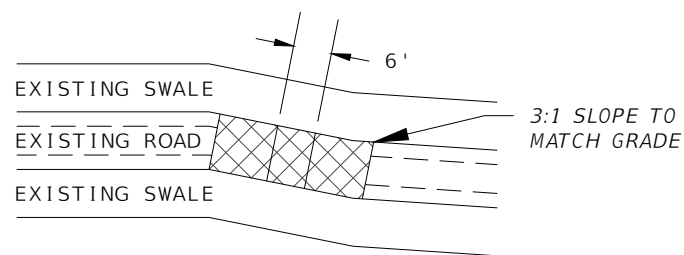




**PROPOSED ROAD REMOVAL**  
NOT TO SCALE



**LOW WATER CROSSING SECTION**  
NOT TO SCALE



**LOW WATER CROSSING PLAN VIEW**  
NOT TO SCALE

**CONSTRUCTION NOTES**

1. CUT ROAD REMOVAL/LOW WATER CROSSING IN EXISTING ROAD AT LOCATIONS IDENTIFIED ON PLANS
2. PROPOSED CROSSING INVERTS SHALL MATCH EXISTING GRADE IMMEDIATELY DOWNSTREAM (WEST) OF THE ROAD.



**TYPICAL ROAD SECTION**



**TYPICAL EXISTING EXCAVATED AREAS**

**CONSTRUCTION DETAILS  
SOUTH ROAD**

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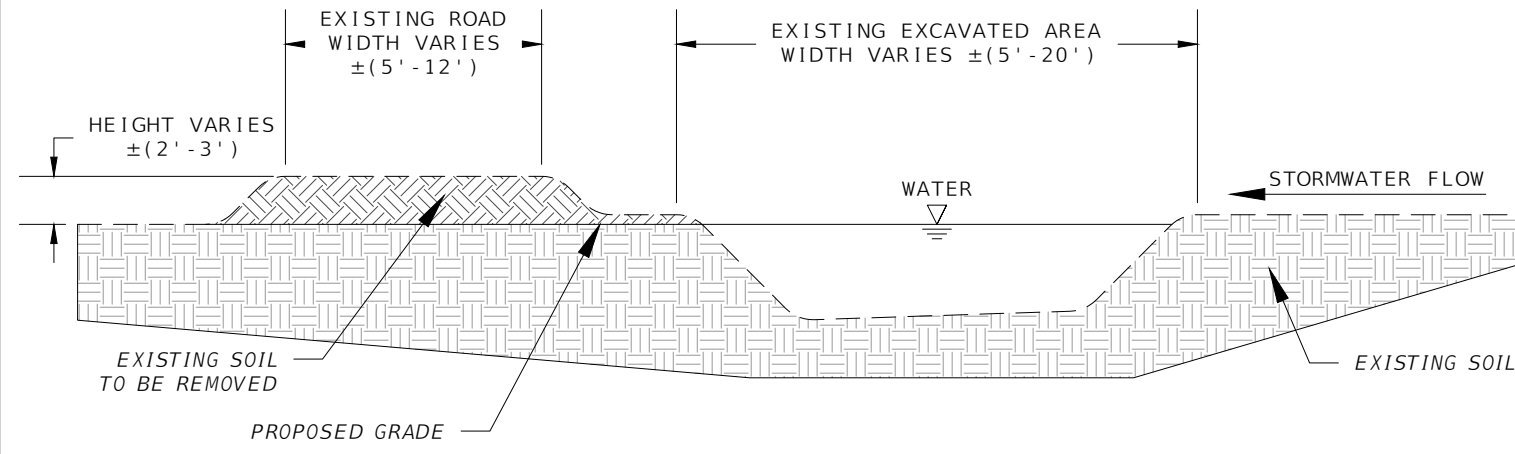
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SHEET TITLE	CONSTRUCTION DETAILS - SOUTH ROAD
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	D-300

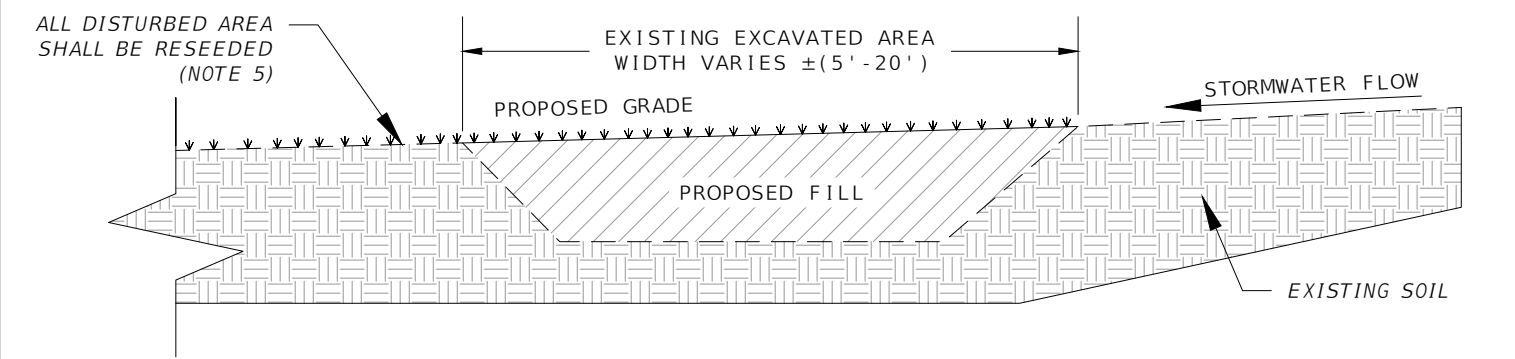
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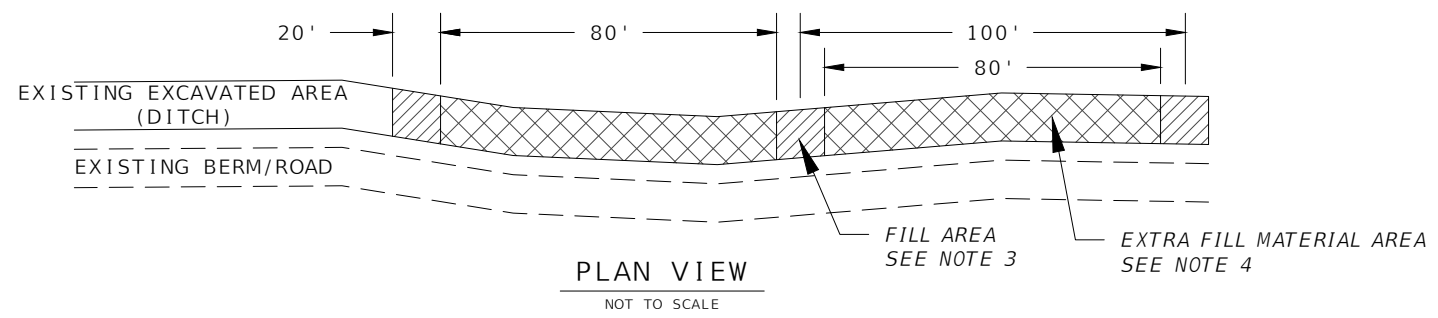
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TYPICAL ROAD SECTION  
MIDDLE OF ROAD LENGTH  
NOT TO SCALE



PROPOSED EXCAVATED  
AREA FILL  
NOT TO SCALE

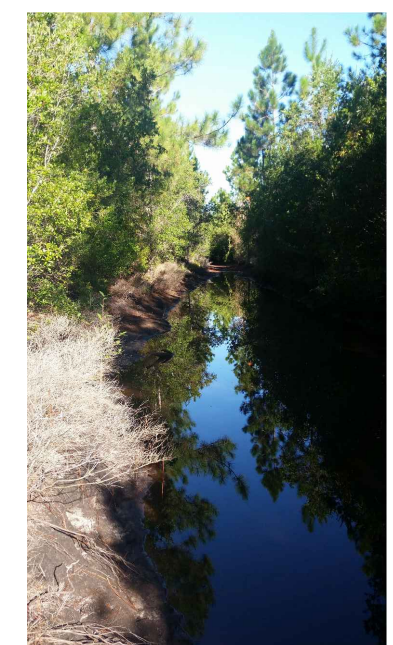


CONSTRUCTION DETAILS  
SOUTH ROAD

- CONSTRUCTION NOTES:**
1. THE EXISTING ROAD BERM SHALL BE CLEARED AND EXCAVATED TO MATCH THE NORTH SIDE OF THE BERM TO THE EXISTING GRADE IMMEDIATELY SOUTH OF THE BERM.
  2. ALL EXCAVATED SOIL SHALL BE PLACED IN THE EXISTING EXCAVATED AREA IMMEDIATELY NORTH OF THE EXISTING BERM.
  3. THE EXISTING EXCAVATED AREA SHALL BE FILLED COMPLETELY TO MATCH THE NORTH SIDE OF THE DITCH GRADE TO THE SOUTH SIDE OF THE DITCH EXISTING GRADE IN 20 FOOT WIDE STRIPS EVERY 100 FEET.
  4. EXTRA FILL MATERIAL LEFTOVER FROM FILLING 20 FOOT WIDE STRIPS SHALL BE USED TO FILL THE REMAINING 80 FOOT SECTIONS OF THE DITCH AS MUCH AS POSSIBLE TO MATCH GRADE NORTH TO SOUTH.
  5. ALL DISTURBED AREAS SHALL BE SEEDED WITH LOCAL GRASS APPROVED BY OWNER



TYPICAL ROAD SECTION  
SOUTHEAST ENTRANCE



TYPICAL EXCAVATED AREA  
SOUTHEAST ENTRANCE



TYPICAL ROAD SECTION  
MIDDLE OF ROAD LENGTH

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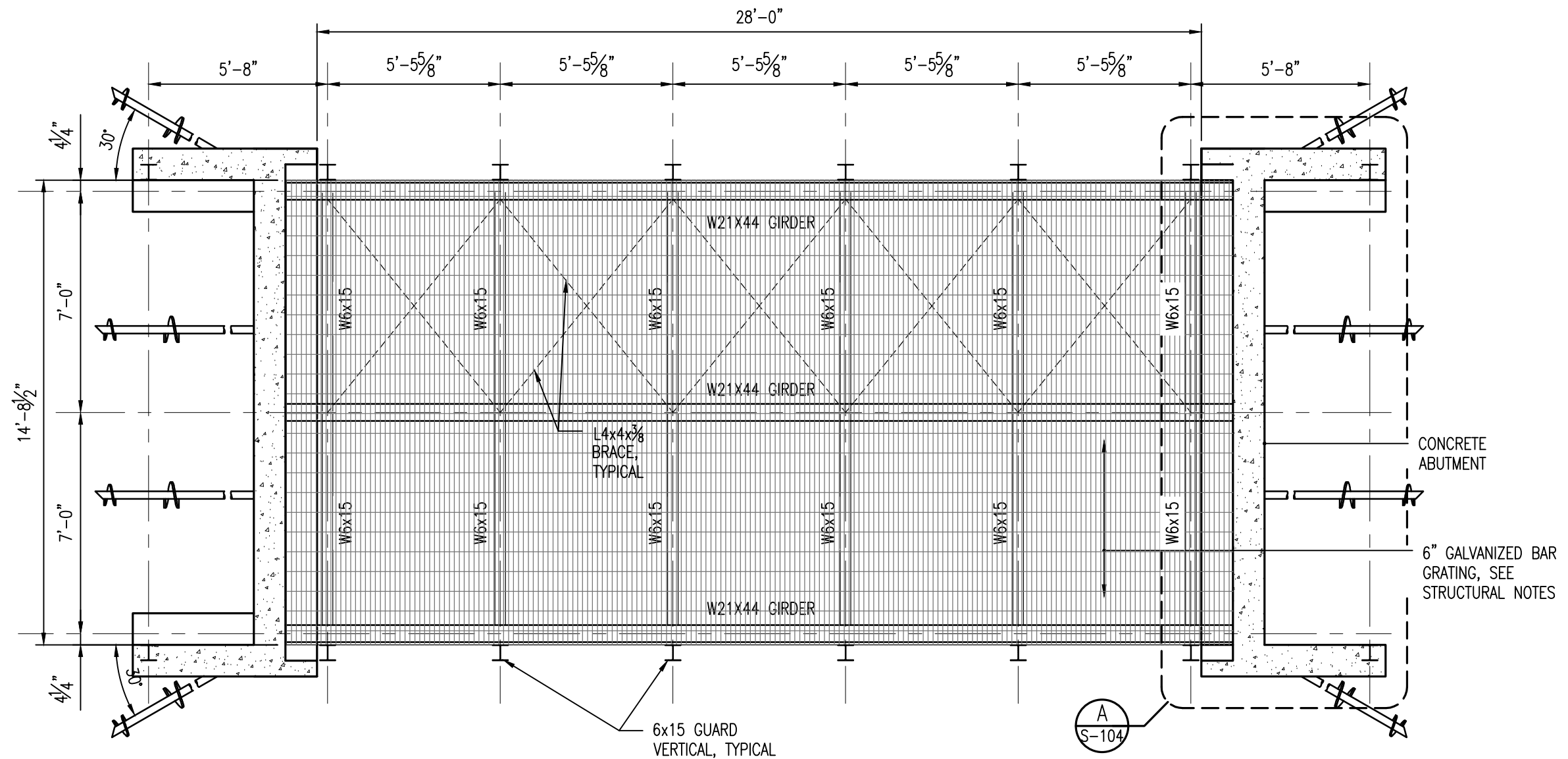
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ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE	CONSTRUCTION DETAILS - SOUTH ROAD
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	D-301



## STRUCTURAL NOTES

1. **GENERAL:**
- UNLESS OTHERWISE SPECIFIED, ALL WORK AND MATERIALS SHALL CONFORM TO "FLORIDA BUILDING CODE" (FBC) REQUIREMENTS, 2020 EDITION.
  - DO NOT SCALE DRAWINGS. USE DIMENSIONS AND DETAILS.
  - THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THESE STRUCTURAL CONTRACT DOCUMENTS.
  - THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE DESIGN, ADEQUACY, SAFETY AND STABILITY OF ERECTION BRACING, FORMWORK, SHORING, AND TEMPORARY SUPPORTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND FOR CONFORMANCE WITH THE HEALTH AND SAFETY PROVISIONS REQUIRED BY ANY REGULATORY AGENCIES. THE STRUCTURAL ENGINEER OF RECORD HAS NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR, OR THEIR EMPLOYEES WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS.
  - STRUCTURAL SUBMITTALS:
    - REPRODUCTION OF CONTRACT DOCUMENTS FOR ERECTION AND/OR SHOP DRAWINGS WILL NOT BE PERMITTED.
    - REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO QUANTITIES, MEMBER SIZES, DETAILS, AND THE DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISION.
2. **DESIGN LOADS:**
- LIVE LOADS**
    - HS20 TRUCK LOADING (MAXIMUM WEIGHT = 72,000LBS)
  - WIND LOAD**
    - ULTIMATE DESIGN WIND SPEED = 150 MPH
    - RISK CATEGORY: II
    - WIND EXPOSURE CATEGORY = B
    - ENCLOSURE CLASSIFICATION = ENCLOSED
    - INTERNAL PRESSURE,  $G_{Cpi} = \pm 0.00$
3. **MATERIALS AND CONSTRUCTION:**
- SOIL:**
    - THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT FILE NO. 07-43-16-01, DATED SEPTEMBER 2016 BY ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
    - SEE CIVIL DRAWINGS FOR DE-MUCKING AND SUBGRADE STABILIZATION REQUIREMENTS.
    - ALL FILL SHALL BE INSTALLED IN 12" LIFTS AND COMPACTED AT OPTIMUM MOISTURE CONTENT TO 98% PROCTOR PER FDOT INDEX 505 SPECIFICATIONS.
    - PROVIDE TWO (2) SOIL DENSITY TESTS IN EACH COMPACTED LIFT OF FILL
    - TESTING LABORATORY SHALL BE SELECTED AND PAID FOR BY THE CONTRACTOR. OWNER TO APPROVE LABORATORY PRIOR TO TESTING AND PAYMENT.
- B. **SURCHARGE:**
- THE EXISTING SUBGRADE BELOW THE PROPOSED FILL LEADING UP TO BOTH BRIDGE APPROACHES SHALL BE CONSOLIDATED WITH A MATERIAL SURCHARGE FOR AN EXTENDED DURATION OF TIME.
  - THE LIMITS OF THE SURCHARGE ARE INDICATED IN THE TYPICAL SURCHARGE DETAIL BELOW. SURCHARGE SHALL BEGIN 3' FROM THE WATER SIDE OF THE ABUTMENT AND SHALL EXTEND 200' FROM THE NORTH ABUTMENT AND 75' FROM THE SOUTH ABUTMENT.
- 
- TYPICAL SURCHARGE DETAIL**  
NO SCALE
- FILL AND SURCHARGE PLACEMENT SHALL NOT EXCEED 24" THICK PER WEEK.
  - FILL PLACEMENT SHALL NOT BE ALLOWED AT ANY TIME WHEN THE SETTLEMENT RATE EXCEEDS 0.5 INCHES A DAY.
  - SURCHARGE SHALL REMAIN IN PLACE UNTIL THE ENGINEER OR HIS REPRESENTATIVE PERMITS TERMINATION OF THE PROGRAM (ESTIMATED 6 WEEKS AFTER INSTALLATION). AT WHICH TIME SOILS SHALL BE REMOVED TO FINAL GRADE ELEVATIONS.
- C. **CONCRETE:**
- ALL CONCRETE WORK SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (A.C.I. 318-11). CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 PSI.
  - CHAMFER ALL CONCRETE EXPOSED EDGES UNLESS INDICATED OTHERWISE.
  - CONTRACTOR SHALL MAKE SETS OF FOUR ACCEPTANCE CYLINDERS FOR STRENGTH TESTING FOR EACH EMBUTMENT PLACED. CYLINDERS SHALL BE MADE IN ACCORDANCE WITH ASTM C31 AND WITH ASTM C172. TESTING SHALL BE PERFORMED BY AN ACI CERTIFIED TESTING LABORATORY AND SHALL BE PAID FOR BY THE CONTRACTOR. OWNER TO APPROVE LABORATORY PRIOR TO TESTING AND PAYMENT.
  - CURE ALL SURFACES FOR A PERIOD OF 7 DAYS UNTIL AVERAGE COMPRESSIVE STRENGTH HAS REACHED 70% OF SPECIFIED STRENGTH. CURING SHALL BE BY PONDING, MOIST CURING WITH SAND OR ABSORPTIVE MATS KEPT CONTINUOUSLY WET, CONTINUOUS APPLICATION OF STEAM (NOT EXCEEDING 105°F) OR MIST SPRAY, WATERPROOF CURING PAPER OR LIQUID MEMBRANE FORMING CURING COMPOUND. SELECTION OF CURING METHOD SHALL BE COMPATIBLE WITH THE FINISH TO BE APPLIED TO THE CONCRETE SURFACE.
- D. **REINFORCING STEEL:**
- ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60, WITH A MINIMUM SPLICE LENGTH OF 36 BAR DIAMETERS UNLESS INDICATED OTHERWISE.
  - PROVIDE ADDITIONAL HORIZONTAL CORNER BARS TO MATCH MAIN HORIZONTAL REINFORCING STEEL AT ALL BEAMS, OR WALL INTERSECTIONS, CORNERS AND OTHER CONCRETE DIRECTIONAL CHANGES AND CORNERS, INCLUDING FOOTINGS.
- E. **STRUCTURAL STEEL:**
- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S (AISC) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", (2005 EDITION).
  - STRUCTURAL STEEL SHAPES SHALL BE FABRICATED FROM THE FOLLOWING MATERIALS:
    - ROLLED W AND WT SHAPES: ASTM A992,  $F_y=50$  KSI.
    - ROLLED HP SHAPES: ASTM A572, GRADE 50
    - ALL OTHER ROLLED SHAPES: ASTM A36.
    - HOLLOW TUBE (HSS): ASTM A500, GRADE B,  $F_y=46$  KSI.
    - STRUCTURAL PIPE: ASTM A53, TYPE E OR S, GRADE B,  $F_y=35$  KSI.
  - ALL STEEL CONNECTIONS SHALL CONFORM TO AISC MANUAL "STANDARD FRAMED BEAM CONNECTIONS" UNLESS SHOWN OTHERWISE. HIGH STRENGTH BOLTS SHALL BE ASTM A325-N BEARING TYPE, THREAD INCLUDED IN SHEAR PLANE.
  - ANCHOR BOLTS AND ALL OTHERS SHALL BE ASTM F1554-36.
  - ALL WELDING WORK SHALL BE PERFORMED AS PER THE AMERICAN SOCIETY'S RECOMMENDATIONS BY CERTIFIED WELDERS.
  - UNLESS NOTED OTHERWISE, ALL WELDING SHALL BE MADE WITH E70 ELECTRODE.
  - NON-SHRINK GROUT SHALL BE NONMETALLIC SHRINKAGE-RESISTANT GROUT CONFORMING TO ASTM C1107.
- E. **STEEL BAR GRATE FLOORING**
- GRATING SHALL BE SUPPLIED IN CONFORMANCE WITH STANDARD SPECIFICATIONS AND CODE OF PRACTICE AS PROVIDED FOR IN NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM) HEAVY-DUTY METAL BAR GRATING MANUAL MMBG 532-00.
  - BAR GRATING SHALL BE LAUREL STEEL HEAVY-DUTY TYPE 22W4, WITH 3 x 3/8" BEARING BARS SPACED 1-3/8" c/c, AND 1/2" DIAMETER CROSS BAR SPACED 4" c/c. ALL MATERIAL SHALL BE ASTM A-36. ALL BEARING BAR/CROSS BAR INTERSECTIONS SHALL BE PLUG-WELDED. THE ENDS OF ALL GRATING PANELS SHALL BE TRIM BANDED.
  - THE LAUREL STEEL HEAVY-DUTY GRATING CAN SUPPORT THE AASHTO H-20 DESIGN TRUCK ON THE SPECIFIED SPAN.
  - GRATING SHALL BE INSTALLED TWO SPAN CONTINUOUS.
  - ALL BAR GRATING SHALL BE RATED FOR AN ALLOWABLE LIVE LOAD OF 100 PSF.
  - ALL EXTERIOR GRATING SHALL BE HOT DIPPED GALVANIZED, IN ACCORDANCE WITH ASTM A-123, PRIOR TO INSTALLATION.
- F. **HOT DIP GALVANIZATION**
- AFTER FABRICATION, ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED PER ASTM A123 TO A MINIMUM THICKNESS OF 3.9 MILS.
  - NO FIELD DRILL, CUTTING, WELDING OR OTHER ADJUSTMENTS WILL BE PERMITTED AFTER HOT DIP GALVANIZING
  - TOUCH UP ANY DAMAGE TO GALVANIZED SURFACES WITH TWO COATS OF ZINC-BASED TOUCHUP COATING: ZRC COLD GALVANIZING COMPOUND" MANUFACTURED BY ZRC WORLDWIDE.
- G. **STEEL HELICAL PILES AND ACCESSORIES:**
- SEE SHEET S-103



**BRIDGE FRAMING PLAN** A  
 SCALE: 1/4" = 1'-0" S102

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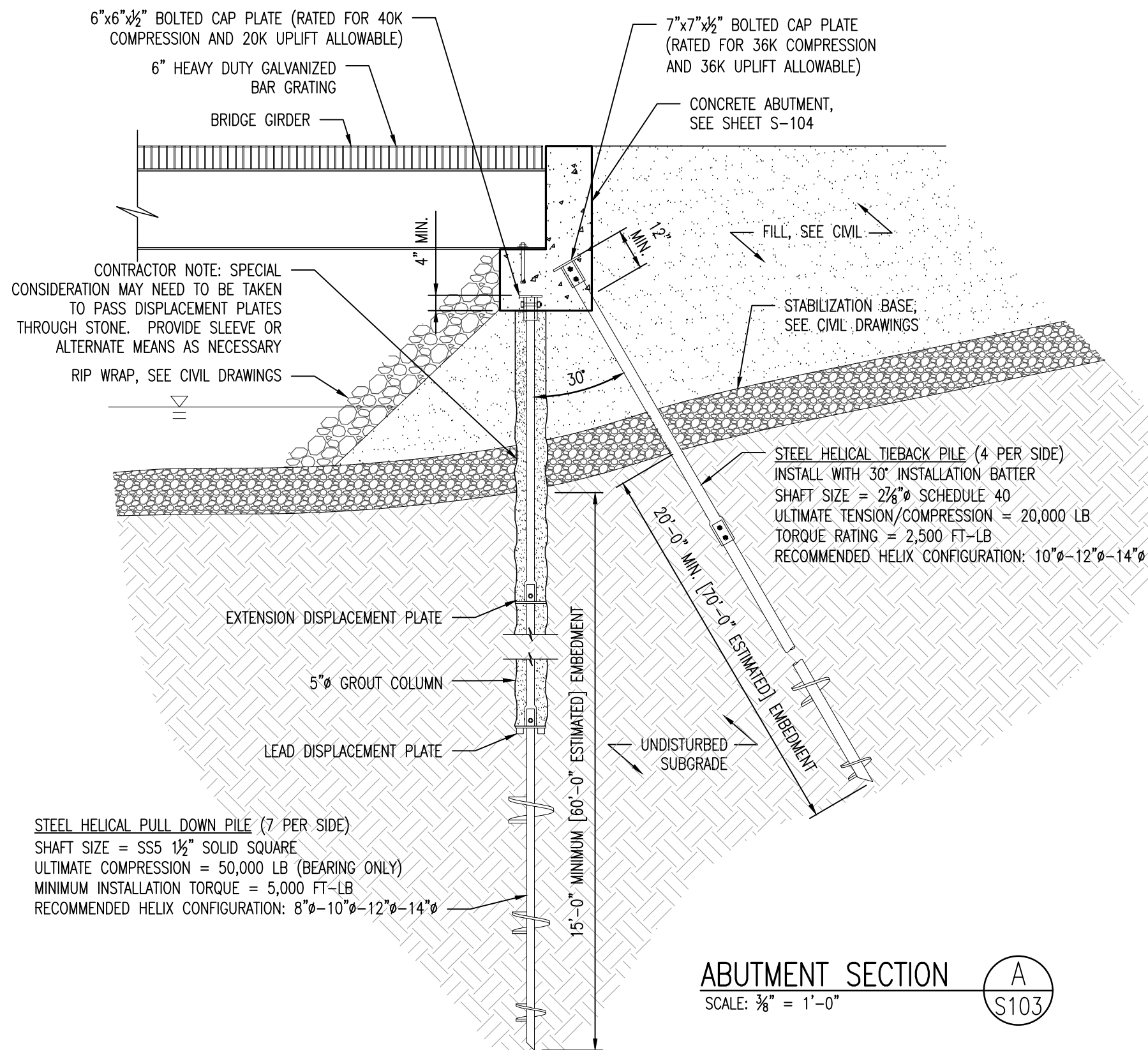
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SHEET TITLE	
BRIDGE FRAMING PLAN	
PROJECT TITLE	SHEET NO.
HYDROLOGIC RESTORATION	S-102



**ABUTMENT SECTION** (A)  
SCALE: 3/8" = 1'-0" (S103)

**NOTES FOR PILE CONSTRUCTION:**

**A. MATERIAL:**

1. ALL COMPONENTS SHALL BE MANUFACTURED BY HUBBELL CHANCE OR APPROVED ALTERNATIVE.
2. CENTRAL STEEL SHAFT: SHALL BE HOT ROLLED ROUND CORNERED SQUARE SOLID BARS MEETING THE DIMENSIONAL AND WORKMANSHIP REQUIREMENTS OF ASTM A29 WITH A MINIMUM YIELD STRENGTH = 90 KSI.
3. HELICAL BEARING PLATE: SHALL BE 3/8" THICK AND MEET ASTM A656 OR A1018 WITH A MINIMUM YIELD STRENGTH OF 50 KSI.
4. DISPLACEMENT PLATES/CENTRALIZERS: SHALL BE FABRICATED FROM 1/4" STEEL PLATE CONFORMING TO ASTM A36
5. PLATES, SHAPES, OR PIER CAPS: STRUCTURAL STEEL PLATES AND SHAPES FOR PILE TOP ATTACHMENT SHALL CONFORM TO ASTM A36 OR ASTM A572 GRADE 50.
6. GROUT
  - a. GROUT SHALL BE PDP TYPE A GROUT MANUFACTURED BY FOUNDATION TECHNOLOGIES, INC. OR APPROVED ALTERNATIVE
  - b. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150 TYPE I OR TYPE II.
  - c. WATER SHALL BE POTABLE AND MIXED AT A RATE OF 1.8 GAL/BAG
7. CORROSION PROTECTION - ALL COMPONENTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 AFTER FABRICATION.

**B. EXECUTION**

1. PILES SHALL BE INSTALLED AFTER ALL SOIL CONSOLIDATION WORK AND FILE GRADING IS COMPLETED.
2. INSTALLATION EQUIPMENT
  - a. EQUIPMENT SHALL BE HYDRAULIC POWER DRIVEN TORQUE MOTOR CAPABLE OF APPLYING ADEQUATE DOWN PRESSURE (CROWD) AND TORQUE SIMULTANEOUSLY WHILE MAINTAINING PROPER PILE ALIGNMENT.
  - b. A DIGITAL TORQUE INDICATOR SHALL BE USED TO CONTINUOUSLY RECORD INSTALLATION TORQUES.
3. PILES SHALL BE INSTALLED TO THE TORQUE AND MINIMUM DEPTH INDICATED ON THE SCHEDULE. TOP OF PILE ELEVATIONS ARE INDICATED ON THE PLAN.
4. PILE INSTALLATION LOG - THE CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF THE INSTALLATION RECORD WHICH SHALL INCLUDE:
  - a. PROJECT NAME
  - b. DATE AND TIME OF INSTALLATION
  - c. PILE IDENTIFICATION NUMBER
  - d. MANUFACTURER'S SKEW NUMBER FOR PILE COMPONENTS INCLUDING LEAD SECTION, EXTENSIONS AND NUMBER AND SIZE OF HELICAL PLATES.
  - e. TOTAL LENGTH OF INSTALLED PILE
  - f. CUT-OFF ELEVATION
  - g. INSTALLATION TORQUE AT ONE-FOOT INTERVALS FOR THE FINAL 10 FEET.
  - h. GROUT QUANTITIES PULLED DOWN ON A PER SECTION BASIS.
  - i. ACTUAL GROUT COLUMN DIAMETER AND LENGTH.
4. GROUT
  - a. GROUT SHALL BE MIXED WITH EQUIPMENT CAPABLE OF PROVIDING A STEADY SUPPLY AT THE REQUIRED LEVEL OF PRODUCTION
  - b. GROUT SHALL BE PLACED VIA A GRAVITY FED RESERVOIR LOCATED AT THE SURFACE. THE RESERVOIR SHALL CONSIST OF A TEMPORARY CASING OR FORM, WHICH IS CAPABLE OF CONTAINING LIQUID GROUT.
  - c. THE GROUT SHALL BE PLACED IN RESERVOIR IMMEDIATELY PRIOR TO ADVANCEMENT OF THE FIRST LEAD DISPLACEMENT PLATE INTO THE SOIL.
  - d. THE VOLUME OF GROUT CONTAINED IN THE RESERVOIR SHALL BE MAINTAINED TO PROVIDE POSITIVE HYDROSTATIC PRESSURE ON THE GROUT COLUMN.
  - e. VOLUME MEASUREMENTS SHALL BE TAKEN THROUGH THE INSTALLATION IN ORDER TO DETERMINE THE ACTUAL GROUT COLUMN DIAMETER.
  - f. GROUT SHALL CURE FOR 14 DAYS PRIOR TO LOADING.

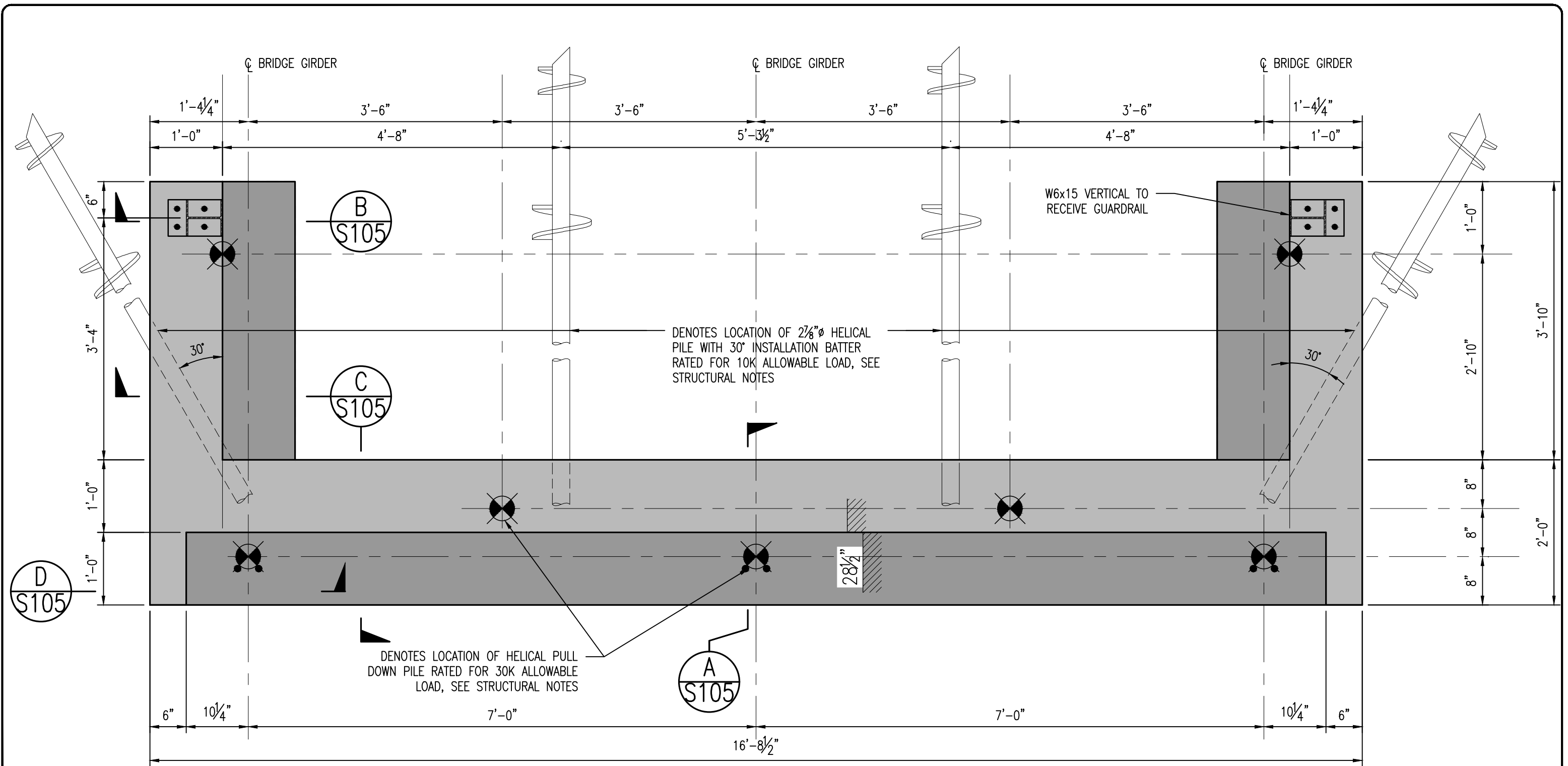
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SYMBOL	REVISION
DATE	

DESIGNER	PMM
DRAWN BY	PMM
COMP. FILE No.	
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ESCRIBANO POINT WILDLIFE MANAGEMENT AREA	
SHEET TITLE ABUTMENT AND BRIDGE DETAILS	
PROJECT TITLE HYDROLOGIC RESTORATION	SHEET NO. S-103



TYPICAL ABUTMENT PLAN

SCALE: 3/4" = 1'-0"

A  
S104

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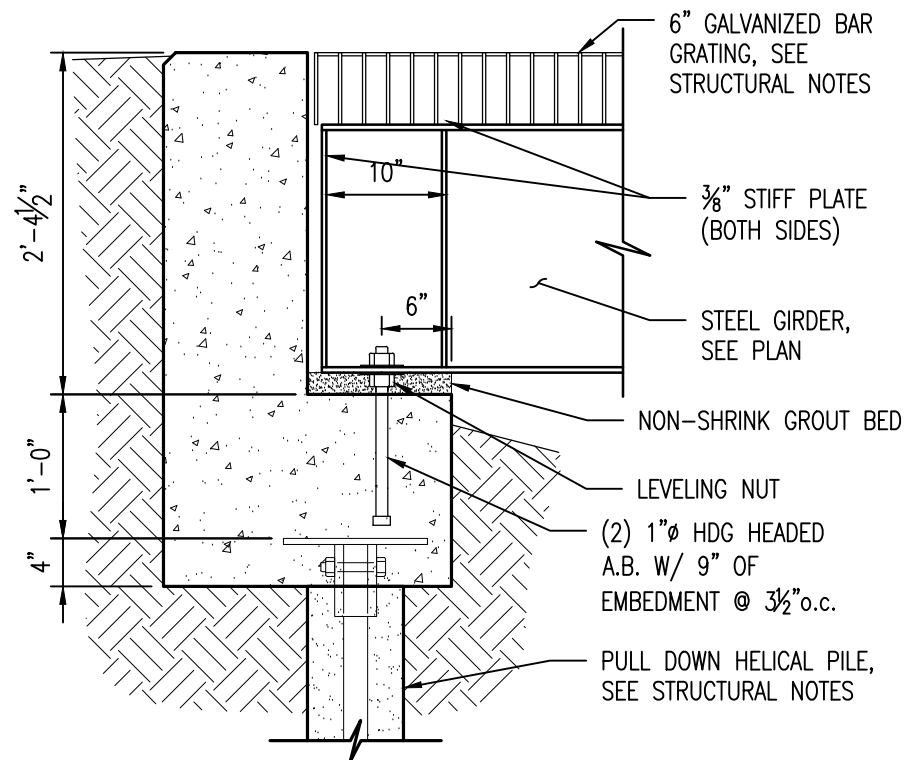
INITIAL ISSUE DATE	12/02/21	
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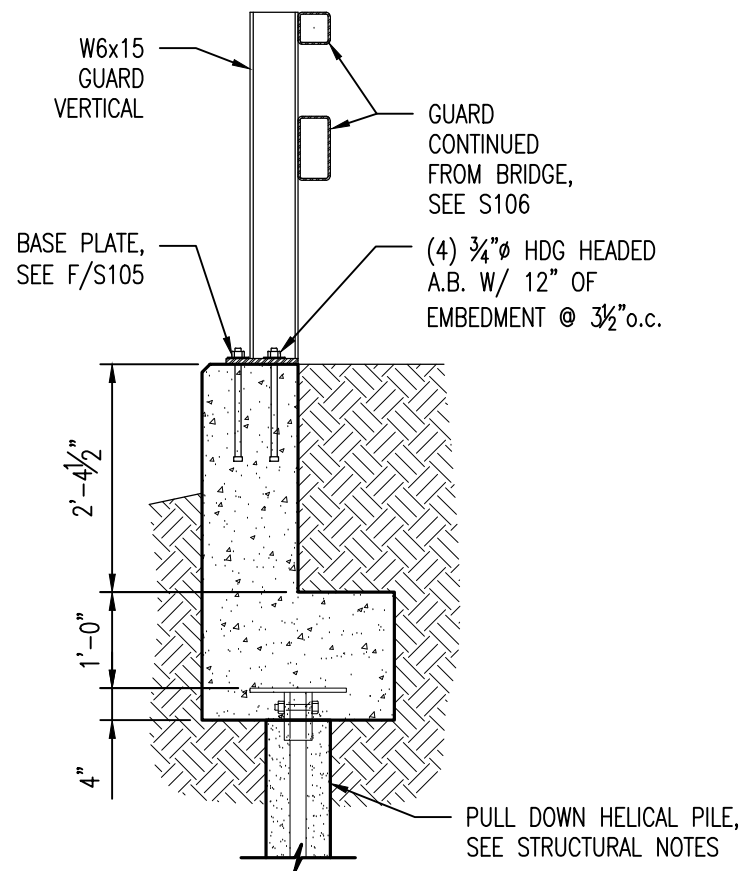
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SHEET TITLE	ABUTMENT PLAN
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	S-104



**BRIDGE GIRDER BEARING SECTION**

SCALE: 3/4" = 1'-0"

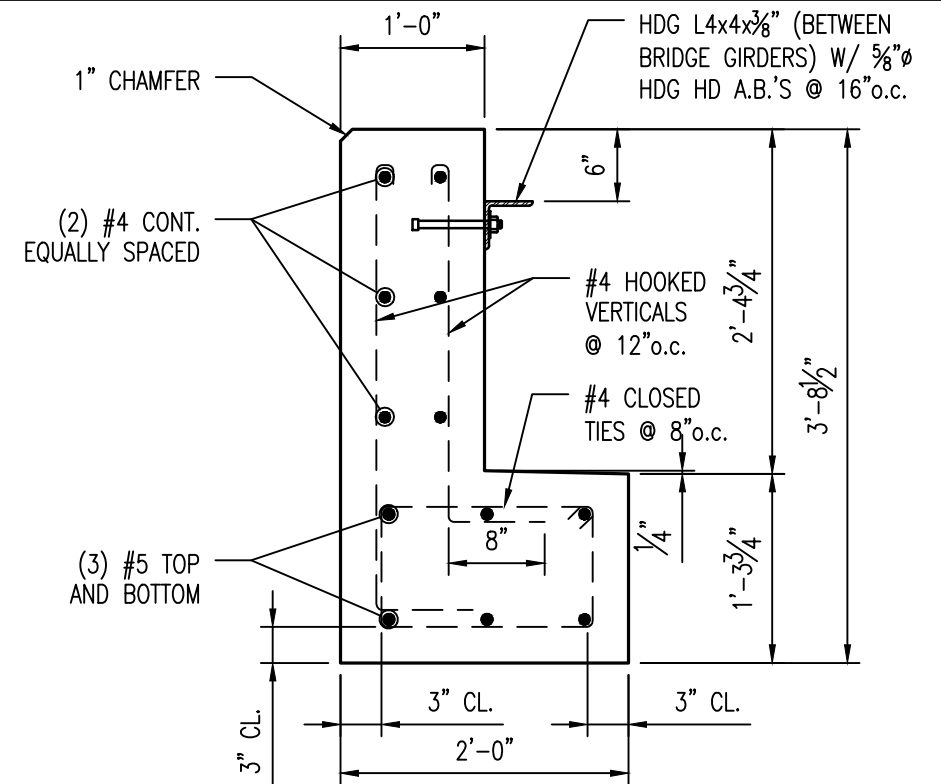
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S105



**WING WALL SECTION**

SCALE: 1/2" = 1'-0"

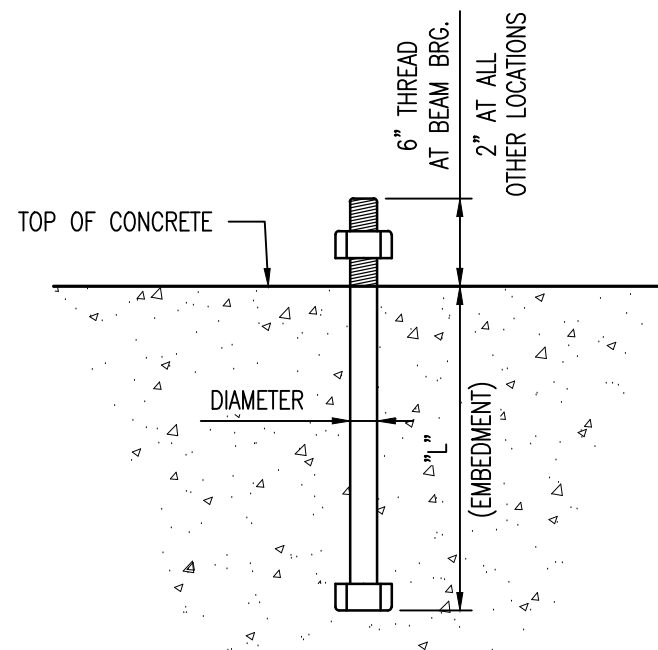
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S105



**TYPICAL ABUTMENT DETAIL**

SCALE: 3/4" = 1'-0"

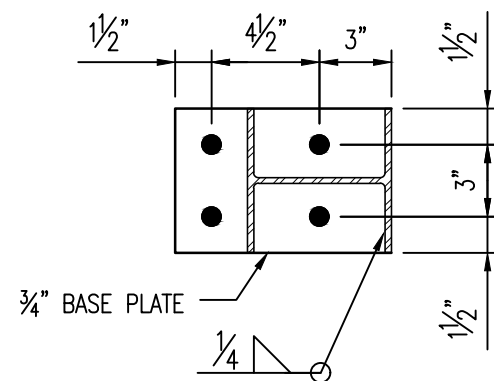
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S105



**TYPICAL ANCHOR BOLT DETAIL**

NO SCALE

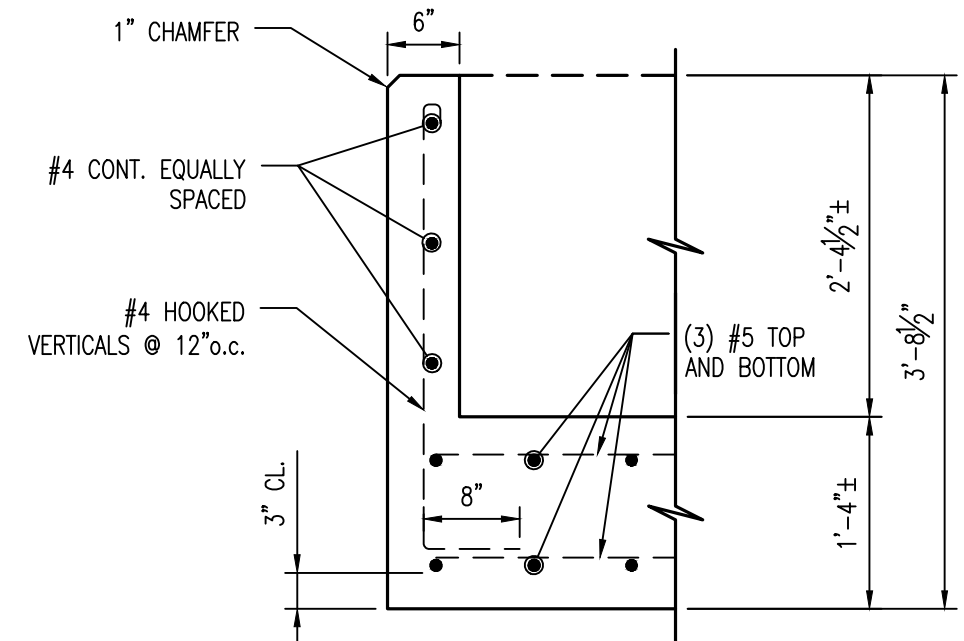
**E**  
S105



**GUARD BASE PLATE DETAIL**

SCALE: 1/2" = 1'-0"

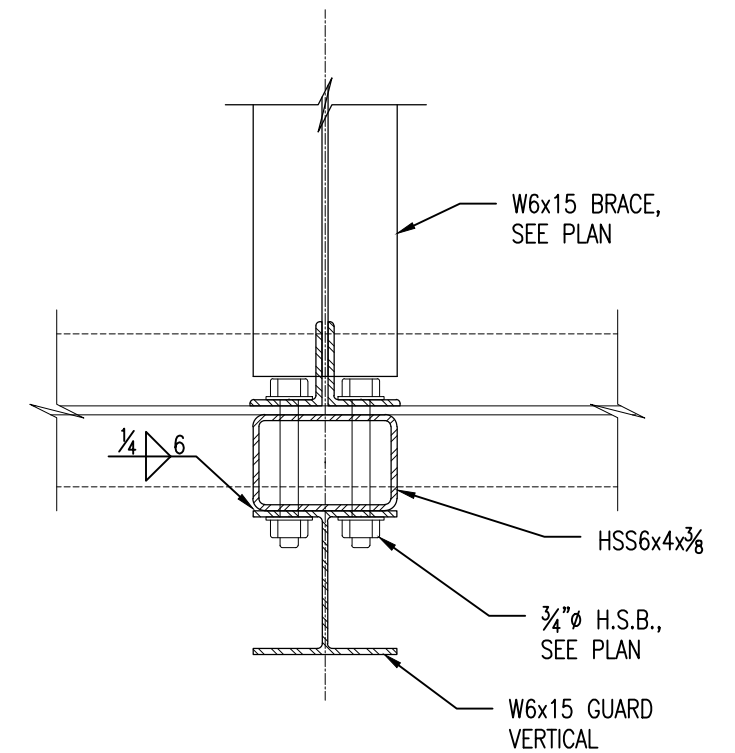
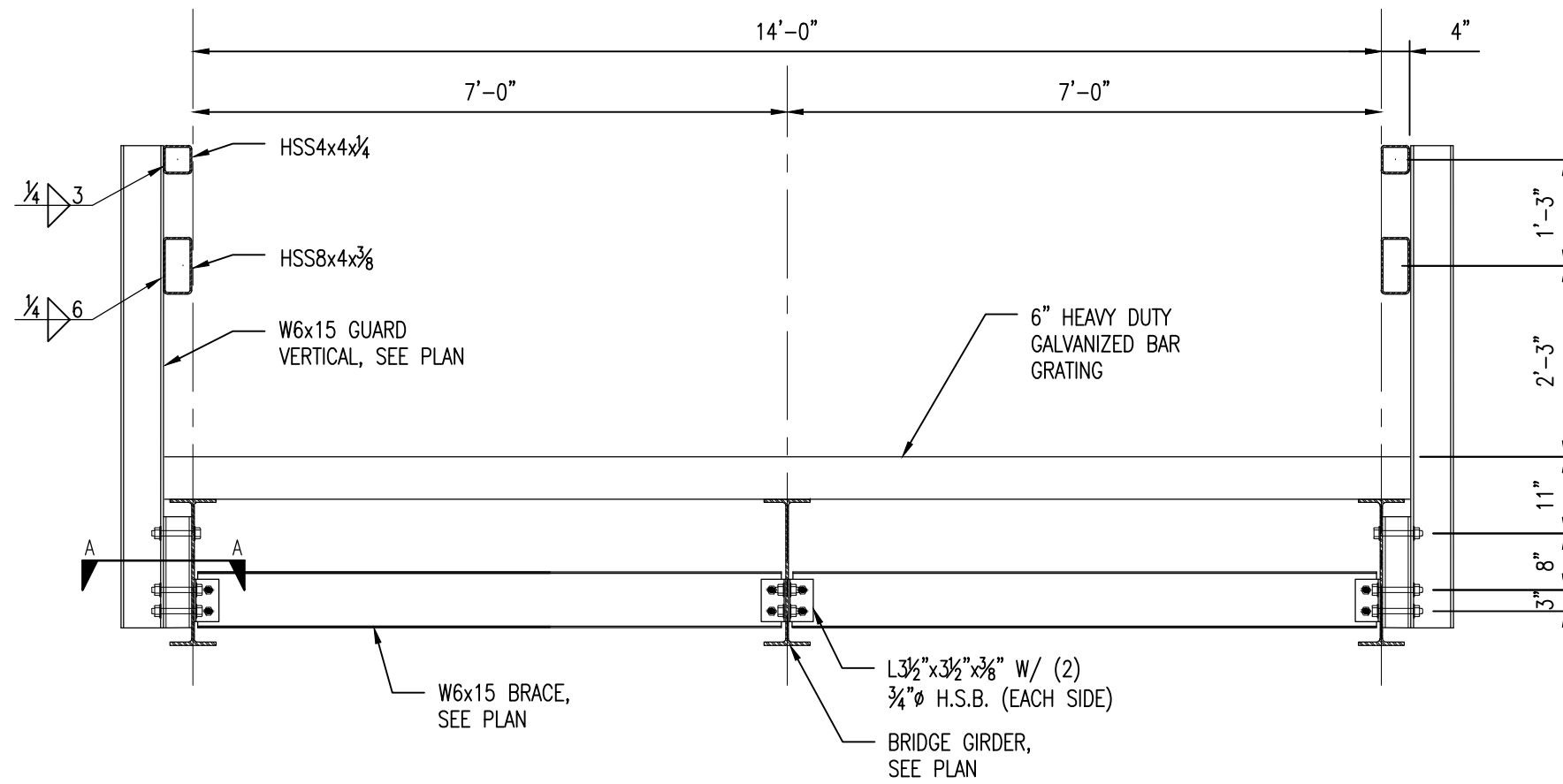
**F**  
S105



**TYPICAL ABUTMENT DETAIL**

SCALE: 3/4" = 1'-0"

**D**  
S105



**SECTION A-A**  
SCALE: 1/2" = 1'-0"

**BRIDGE SECTION B**  
SCALE: 1/2" = 1'-0" B  
S106

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SHEET TITLE	BRIDGE SECTION AND DETAILS
PROJECT TITLE	HYDROLOGIC RESTORATION
SHEET NO.	S-106