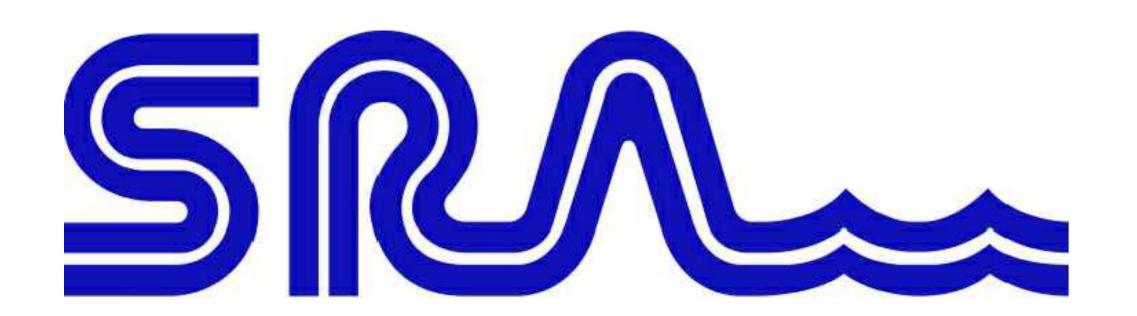
SABINE RIVER AUTHORITY OF TEXAS



CONSTRUCTION DRAWINGS FOR

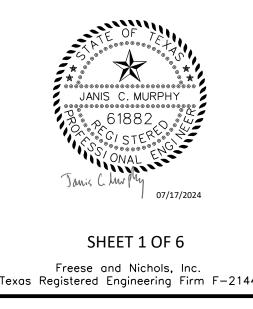
IRON BRIDGE DAM ROCK RIPRAP REPAIR PHASE 2

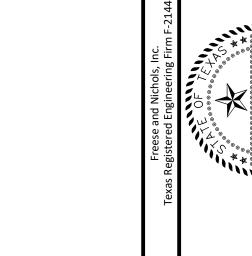
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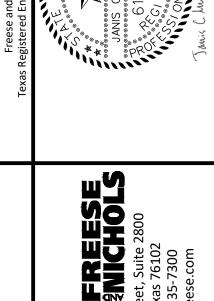
JULY 2024



SRA22667







	801 Cherry Street, Suite Fort Worth, Texas 76103 Phone - (817) 735-7300 Web - www.freese.com
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RIPRAP REPAIR	
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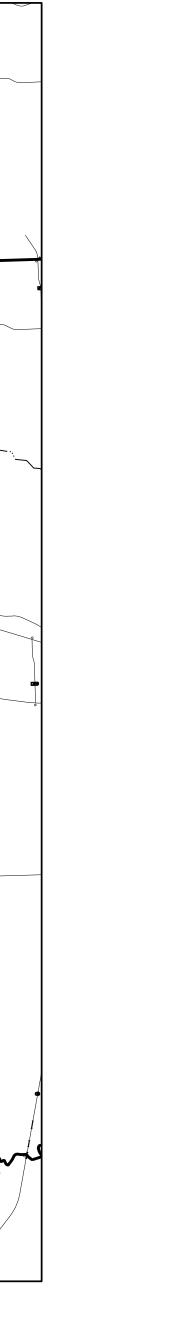
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LAKE TAWAKONI

PROJECT LOCATION

N.T.S.

N.T.S.

GENERAL CONSTRUCTION REQUIREMENTS:

- 1. IN ACCORDANCE WITH TEXAS STATE LAW, AT LEAST 2 DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING A TEXAS REGISTERED NOTIFICATION CENTER (I.E. TEXAS ONE CALL, DIG TESS, ETC.), IN ORDER TO HAVE EXISTING UTILITIES LOCATED.
- 2. THE SURVEY INFORMATION CONTAINED ON THESE DRAWINGS DOES NOT SHOW OR INCLUDE THE LOCATIONS OF ALL EXISTING TREES OR UTILITIES.
- 3. CONTRACTOR SHALL DISPOSE OF ALL DEBRIS, CONSTRUCTION RUBBLE, AND TRASH AT AN APPROVED DISPOSAL FACILITY IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- 4. NO BLASTING IS ALLOWED. NO FIRES ARE ALLOWED.
- 5. ALL AREAS WHICH ARE DISTURBED DURING CONSTRUCTION INCLUDING AREAS OF STOCKPILED RIPRAP ADJACENT TO THE SPILLWAY AND ON THE NORTH SIDE OF THE RAMP ROAD SHALL BE RESEEDED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL SEEDED AREAS SHALL BE WATERED DAILY FOR A PERIOD OF NOT LESS THAN ONE MONTH AFTER REVEGETATION. CONTINUE WATERING UNTIL THE VEGETATION IS ESTABLISHED.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SERVICE LINES CROSSED OR EXPOSED BY HIS CONSTRUCTION OPERATIONS. WHERE EXISTING SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY REPLACE THE SERVICE LINES WITH THE SAME TYPE OF ORIGINAL CONSTRUCTION MATERIAL OR BETTER.
- 7. CONTRACTOR SHALL VERIFY DEPTH AND LOCATIONS OF ALL UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT.
- 8. ALL ELEVATIONS SHALL BE VERIFIED BY CONTRACTOR. ALL PROPOSED TIE-INS TO EXISTING STRUCTURES SHALL BE VERIFIED.
- 9. PROPOSED CONTOUR LINES, SPOT ELEVATIONS AND SLOPE INDICATORS REPRESENT FINISHED GRADES, EXCEPT AS OTHERWISE NOTED ON THE DRAWINGS.
- 10. MAXIMUM SPEED LIMIT ON THE PROJECT SITE SHALL BE 20 M.P.H.
- 11. THE NORMAL LAKE LEVEL ELEVATION IS 437.5 FEET.
- 12. BEFORE BEGINNING CONSTRUCTION, CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOUND IN DRAWINGS AND/OR FIELD DIMENSIONS.
- 13. SITE SECURITY IS THE CONTRACTORS RESPONSIBILITY.
- 14. THE CONTRACTOR SHALL CONTROL EROSION AND SEDIMENTATION PER THE APPLICABLE PERMITS, LAWS, AND REGULATIONS INCLUDING AN SWPPP.
- 15. THE CONTRACTOR STAGING AREA SHALL BE ON THE FLEXBASE AREA BY THE RAMP ROAD. ALL OTHER REQUESTED AREAS SHALL BE APPROVED BY THE OWNER.
- 16. THE CONTRACTOR SHALL REMOVE THE LOOSE DEBRIS (WOOD, TRASH, ETC.) ON THE ROCK RIPRAP AND DISPOSE OF IT IN AN APPROVED LANDFILL. COST FOR THIS ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS BID.
- 17. ALL ROCK RIPRAP IS FURNISHED BY THE OWNER AND IS ON-SITE AS INDICATED.
- 18. CONTRACTOR SHALL UTILIZE RUBBER TIRED EQUIPMENT OR SHALL UTILIZE MATS OR STEEL PLATES ON THE CREST ROAD TO MINIMIZE DAMAGE.
- 19. ANY MODIFICATIONS TO THE EARTH EMBANKMENT WILL NEED TO BE MADE IN THE FORM OF A SUBMITTAL AND APPROVAL WILL BE AT THE DISCRETION OF OWNER. MINOR AMOUNTS OF GRAVEL MAY BE ADDED TO THE UPSTREAM EDGE OF CREST OF THE EMBANKMENT. SOME MATERIAL MAY BE LEFT IN PLACE, SUBJECT TO THE OWNER'S APPROVAL, PROVIDING IT DOES NOT IMPACT DRAINAGE, OR IS UNSIGHTLY. ANY DAMAGE TO THE EXISTING ROCK RIPRAP WHICH IS TO REMAIN ON THE EMBANKMENT SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION BY THE CONTRACTOR AT HIS EXPENSE.
- 20. CONTRACTOR SHALL BE REQUIRED TO PROVIDE A "PROVE-OUT" SESSION TO DEMONSTRATE PLACEMENT METHODS. CONTRACTOR SHALL NOT BE ALLOWED TO PLACE ROCK RIPRAP IN THE AREA SHOWN AS A RESTRICTED AREA ON THE PLANS WITHOUT WRITTEN PERMISSION. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.
- 21. PLANS AND SPECIFICATIONS SHALL NOT BE SUBSTANTIALLY OR MATERIALLY ALTERED WITHOUT PRIOR WRITTEN APPROVAL OF THE TCEQ'S EXECUTIVE DIRECTOR.
- 22. CONTRACTOR WILL BE REQUIRED TO CONDUCT A PROVE-OUT SESSION FOR ROCK PLACEMENT AT THE BEGINNING OF THE PROJECT. SEE SPECIFICATION 01 36 00.
- 23. CONTRACTOR SHALL ALSO BE REQUIRED TO PERFORM A SPOT REPAIR AS SHOWN ON SHEET C-2 IN A LOCATION SELECTED BY THE OWNER. LOCATION IS ANTICIPATED TO BE BETWEEN STA. 110+00 AND 140+00.

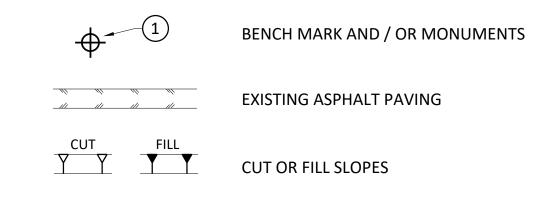
REGULATORY PERMITTING AND SAFETY:

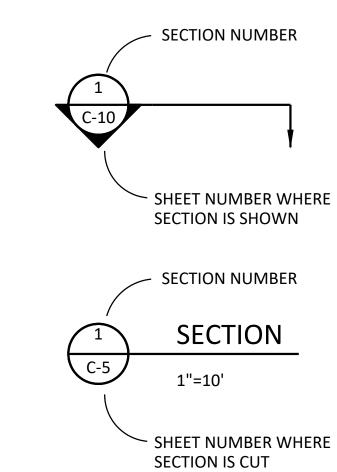
- 1. CONTRACTOR SHALL ABIDE BY ALL APPLICABLE GOVERNMENTAL AND REGULATORY STANDARDS AND REQUIREMENTS AND SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FOR CONSTRUCTION OF THE FACILITIES SHOWN IN THE DRAWINGS.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GENERAL SAFETY AT AND ADJACENT TO THE PROJECT AREA, INCLUDING THE PERSONAL SAFETY OF THE CONSTRUCTION STAFF AND GENERAL PUBLIC, AND FOR THE SAFETY OF PUBLIC AND PRIVATE PROPERTY.
- 3. THE CONTRACTOR SHALL MINIMIZE TURBIDITY IN WATERWAYS DURING ALL PHASES OF THE PROJECT, INCLUDING DREDGE, DECANT, FILL AND CONSTRUCTION. THE CONTRACTOR SHALL EMPLOY ADEQUATE METHODS TO ENSURE MINIMUM TURBIDITY FROM NEW AND LONG TERM EROSION FROM FILL, SPOIL, AND/OR DEVEGETATED AREAS DURING AND FOLLOWING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS CONCERNING WATER POLLUTION AND CONTROL OF EROSION.
- 4. THE CONTRACTOR SHALL CONTROL EROSION AND SEDIMENTATION PER THE APPLICABLE PERMITS, LAWS, AND REGULATIONS INCLUDING AN SWPPP .
- 5. THE AREA DESIGNATED AS RESTRICTED ON SHEET C-1 SHALL BE RESTRICTED DURING A PORTION OF THE PROJECTS AS OUTLINED IN THE SPECIFICATIONS SECTION 01 31 00 PROJECT MANAGEMENT AND COORDINATION. CONTRACTOR SHALL NOT BE ALLOWED TO PERFORM WORK IN THIS AREA UNTIL GIVEN WRITTEN PERMISSION BY OWNER. THIS IS ANTICIPATED TO BE JUNE 1-AUG 31. TRUCK TRAFFIC MAY CONTINUE THROUGH THIS AREA AT THE REQUIRED SPEED.

ACCESS REQUIRMENTS:

- THE CONTRACTOR MAY USE EXISTING PUBLIC ROADS FOR TRANSPORTATION. THE CONTRACTOR SHALL FOLLOW THE LAWS FOR ROAD WEIGHT RESTRICTION. DAMAGE CAUSED BY CONSTRUCTION VEHICLES FROM CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. ALL GATES SHALL BE KEPT CLOSED TO CONTROL ACCESS TO THE SITE. GATES SHALL BE LOCKED AT NIGHT.
- 3. ALL FENCING WHICH IS REMOVED FOR CONSTRUCTION SHALL BE REPLACED PRIOR TO THE END OF THE WORK DAY.
- 4. THE CONTRACTOR MAY ACQUIRE ADDITIONAL TEMPORARY CONSTRUCTION EASEMENTS AT HIS OWN COST, IF HE SO CHOOSES. IF THE CONTRACTOR ACQUIRES ADDITIONAL TEMPORARY EASEMENTS, HE SHALL PROVIDE COPIES OF THE WRITTEN AGREEMENT TO THE ENGINEER. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ANY DAMAGES RESULTING FROM USE OF ADDITIONAL TEMPORARY EASEMENTS.
- 5. OWNER WILL NEED PERIODIC ACCESS TO THE SPILLWAY VIA THE ROAD ON THE CREST OF THE DAM TO PERFORM ROUTINE OPERATION ACTIVITIES. CONTRACTOR WILL BE REQUIRED TO PROVIDE ROOM FOR VEHICULAR ACCESS. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE OWNER, PARK EQUIPMENT USED FOR THE REPLACEMENT OF THE ROCK ON THE TOP OF THE DAM OVERNIGHT, PROVIDED A VEHICLE CAN PASS AND IT IS MARKED WITH TRAFFIC CONES OR SOME TYPE OF REFLECTIVE MARKERS VISIBLE FROM BOTH DIRECTIONS.
- 6. ANY DAMAGE TO THE ROAD ON THE CREST OF THE DAM SHALL BE REPAIRED TO CONDITIONS ACCEPTABLE TO THE OWNER. EXISTING ROAD SECTION IS SHOWN ON THE PLANS. SECTIONS OF THE ASPHALT ON THE ROAD ARE NOT AS THICK AS DEPICTED IN THE PLANS.
- 7. NO CONSTRUCTION TRAFFIC IS ALLOWED ON THE DOWNSTREAM SLOPE OF THE DAM.
- 8. NO ACCESS EXISTS ACROSS THE SPILLWAY AT THE CREST OF THE DAM.
- 9. SEVERAL PIEZOMETERS ARE LOCATED ON THE CREST OF THE DAM IN TRAFFIC RATED CONCRETE BOXES. THE OWNER WILL MARK THESE LOCATIONS. CONSTRUCTION TRAFFIC SHOULD STRADDLE THE INSTRUMENTS TO THE EXTENT POSSIBLE TO PREVENT DAMAGE. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE PIEZOMETERS OR ENCLOSURES AT HIS EXPENSE.
- 10. THE FIRST PHASE OF THE ROCK RIPRAP PROJECT DAMAGED SOME SECTIONS OF THE CREST ROAD. THESE AREAS WERE REPAIRED BY SAW CUTTING THE PAVEMENT AND FILLING THE DAMAGED AREA WITH FLEXBASE. THESE SHALL BE REPAIRED TO A PRE-CONSTRUCTION CONDITION AT THE END OF CONSTRUCTION.
- 11. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM ROAD MAINTENANCE DURING THE PROJECT CONSTRUCTION.

LEGEND OF SYMBOLS





Freese and Nichols, Inc.

Texas Registered Engineering Firm F-2144

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