



S1 CABLE HOIST ASSEMBLY (2 REQ'D. BY OTHERS)
NOT TO SCALE

CABLE DRUM HOIST

1. THE PLAN AND ELEVATION SHOWN ARE A GENERAL ARRANGEMENT FOR A CABLE DRUM HOIST SYSTEM. ALTERNATIVE DESIGNS WILL BE CONSIDERED ACCEPTABLE PROVIDED THAT THE SPECIFICATIONS ARE MET.
2. REFER TO SPECIFICATION SECTION 14611 - VERTICAL LIFT GATE OPERATING SYSTEMS FOR PRODUCT REQUIREMENTS.
3. REFER TO SPECIFICATION "SECTION 09900 - PROTECTIVE COATINGS" FOR THE HOIST COATING REQUIREMENTS.
4. THE DEAD LOAD OF EACH ROLLER GATE IS APPROXIMATELY 22,000 lbs.
5. THE REQUIRED LIFTING HEIGHT OF THE ROLLER GATES IS 12.0 FEET ABOVE THE SPILLWAY CREST.
6. THE CONTRACTOR SHALL CONFIRM ALL PERTINENT STRUCTURE DIMENSIONS PRIOR TO FABRICATION OF THE HOIST.
7. FOR HOIST POWER SUPPLY, CONTRACTOR SHALL CONNECT TO THE ELECTRICAL PANEL LOCATED IN THE CONTROL HOUSE ADJACENT TO THE STRUCTURE. THE EXISTING SERVICE IS 100 AMP, SINGLE PHASE 120/240 VOLTS.
8. THE OPERATING FORCES FOR THE GATE HOIST SHALL BE DETERMINED BASED ON AN UNBALANCED HEAD CONDITION OF 12.0 FEET.

**100% DRAWINGS
NOT FOR CONSTRUCTION**

I:\Projects\CADD\USRB\S-251 CABLE DRUM HOIST\CONSTRUCTIONS-251 CABLE DRUM HOIST.dwg

NO.	REVISION	BY	DATE	APPROVED	DATE

UPPER ST. JOHNS RIVER BASIN
STRUCTURE S251 REHABILITATION
MARION COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: AUGUST 10, 2021 REVIEWER: W.R.C.
SCALE: AS NOTED DESIGNER: W.R.C. SECTION CHIEF: W.R.C.

CABLE DRUM HOIST

CERTIFICATION:
WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: AUGUST 10, 2021

FILE NAME:
S-251 CABLE DRUM HOIST.dwg
PROJECT NO.:
SHEET:
S1