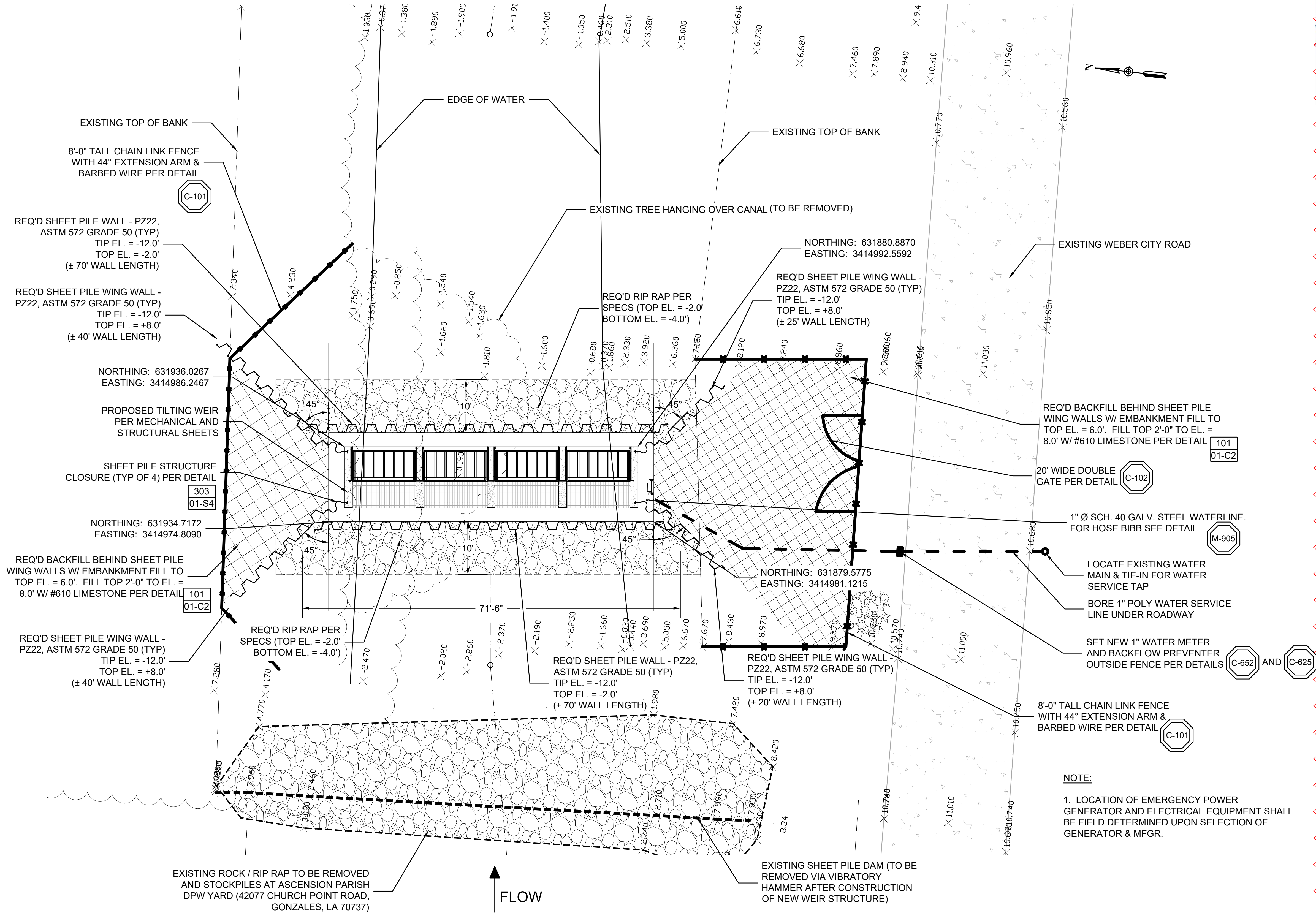




WARNING
IF THIS BAR DOES NOT MEASURE 1" (OR EQUIVALENT) IN LENGTH, THE DRAWING IS NOT TO SCALE.

HDC
H. Davis Cole & Associates, LLC
Consulting Engineers

REVISION RECORD			
NO.	DATE	BY	CHKD
1	10/31/22	HDC	
2	10/31/22	HDC	
3	10/31/22	HDC	
4	10/31/22	HDC	
5	10/31/22	HDC	
6	10/31/22	HDC	
7	10/31/22	HDC	
8	10/31/22	HDC	
9	10/31/22	HDC	
10	10/31/22	HDC	
11	10/31/22	HDC	
12	10/31/22	HDC	
13	10/31/22	HDC	
14	10/31/22	HDC	
15	10/31/22	HDC	
16	10/31/22	HDC	
17	10/31/22	HDC	
18	10/31/22	HDC	
19	10/31/22	HDC	
20	10/31/22	HDC	
21	10/31/22	HDC	
22	10/31/22	HDC	
23	10/31/22	HDC	
24	10/31/22	HDC	
25	10/31/22	HDC	
26	10/31/22	HDC	
27	10/31/22	HDC	
28	10/31/22	HDC	
29	10/31/22	HDC	
30	10/31/22	HDC	

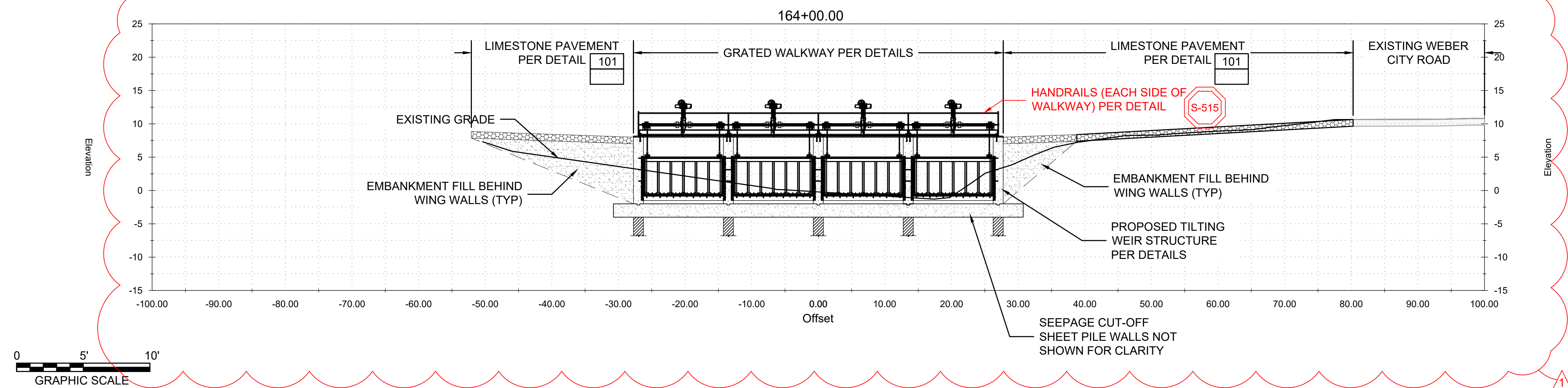
DESIGNED BY: HDC
DRAWN BY: RM
CHECKED BY: HDC

DATE: Oct-22
DETAILED BY: RM
HDC PROJECT NO.: 2021-14

NEW RIVER TILTING WEIR STRUCTURE
LOUISIANA
ASCENSION PARISH
EAST ASCENSION CONSOLIDATION GRAVITY DRAINAGE DISTRICT 1
ASCENSION PARISH
PROPOSED SITE PLAN

SHEET ID
01-C1

SHEET SET
15 OF 30



WEIR STRUCTURE SECTION

GENERAL NOTES:

1. CROSS SECTION DEVELOPED FROM SURVEY
PREPARED BY BRYANT HAMMETT & ASSOCIATES, LLC.
2. SEE MECHANICAL AND STRUCTURAL SHEETS FOR
ADDITIONAL INFORMATION AND CONNECTION
DETAILS.

2. SEE MECHANICAL AND STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION AND CONNECTION DETAILS.



WARNING



(BASED ON 22"x34" SHEET) THE
DRAWING IS NOT TO SCALE.



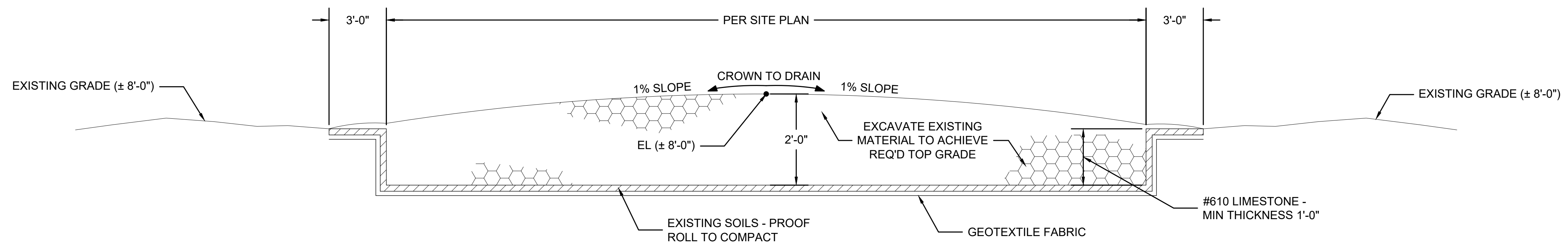
H. Davis Cole & Associates, LLC
Consulting Engineers

NEW ORLEANS, LA

[illegible]

GENERAL NOTES:

1. SEE SITE PLAN FOR LOCATION.



LIMESTONE PAVEMENT DETAIL

SCALE: N.T.S.

DATE:	Oct-22	DESIGNED BY:	HDC
		DRAWN BY:	RM
		CHECKED BY:	HDC
		HDC PROJECT NO.	2021-14

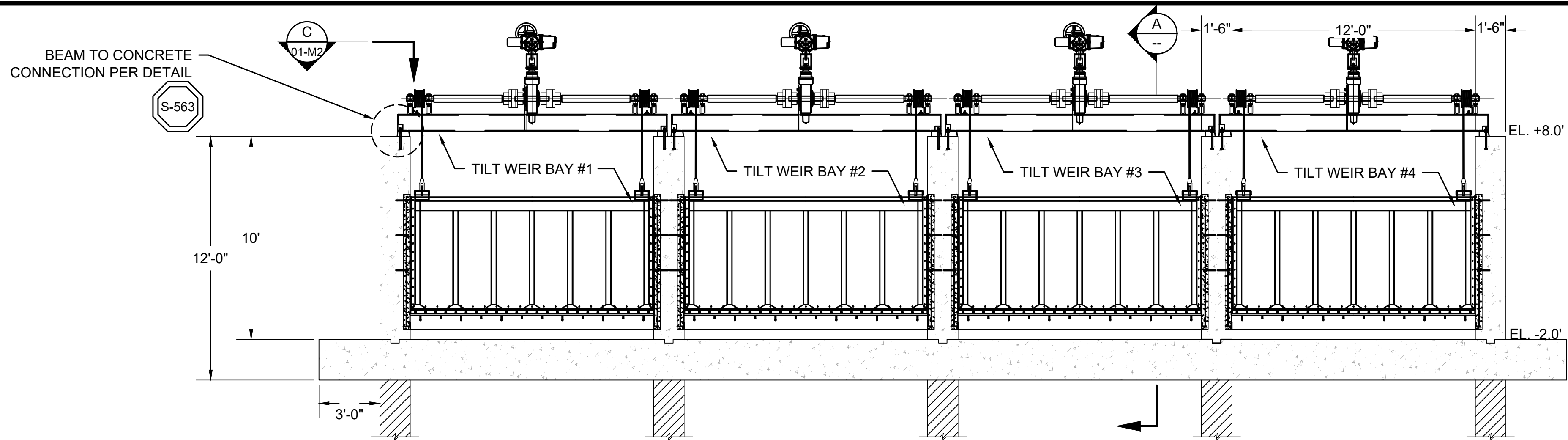
LOUISIANA SECTION CONSOLIDATION GRAVITY DRAINAGE DISTRICT 1 ASCENSION PARISH SECTION VIEW

NEW RIVER
ASCENSION PARISH
EAST ASCEC
1

SHEET ID

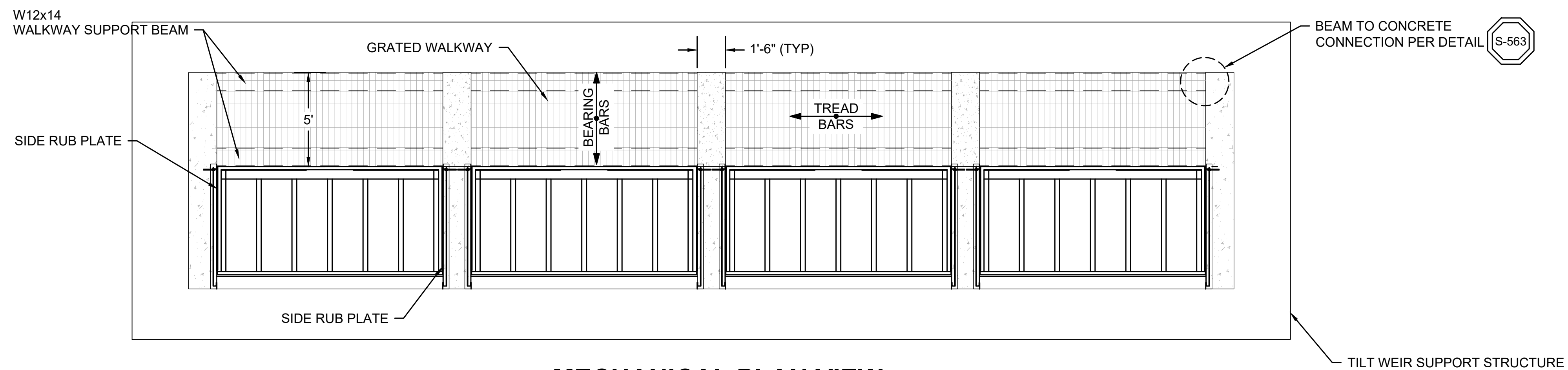
01-C2

SHEET SET
16 OF **30**



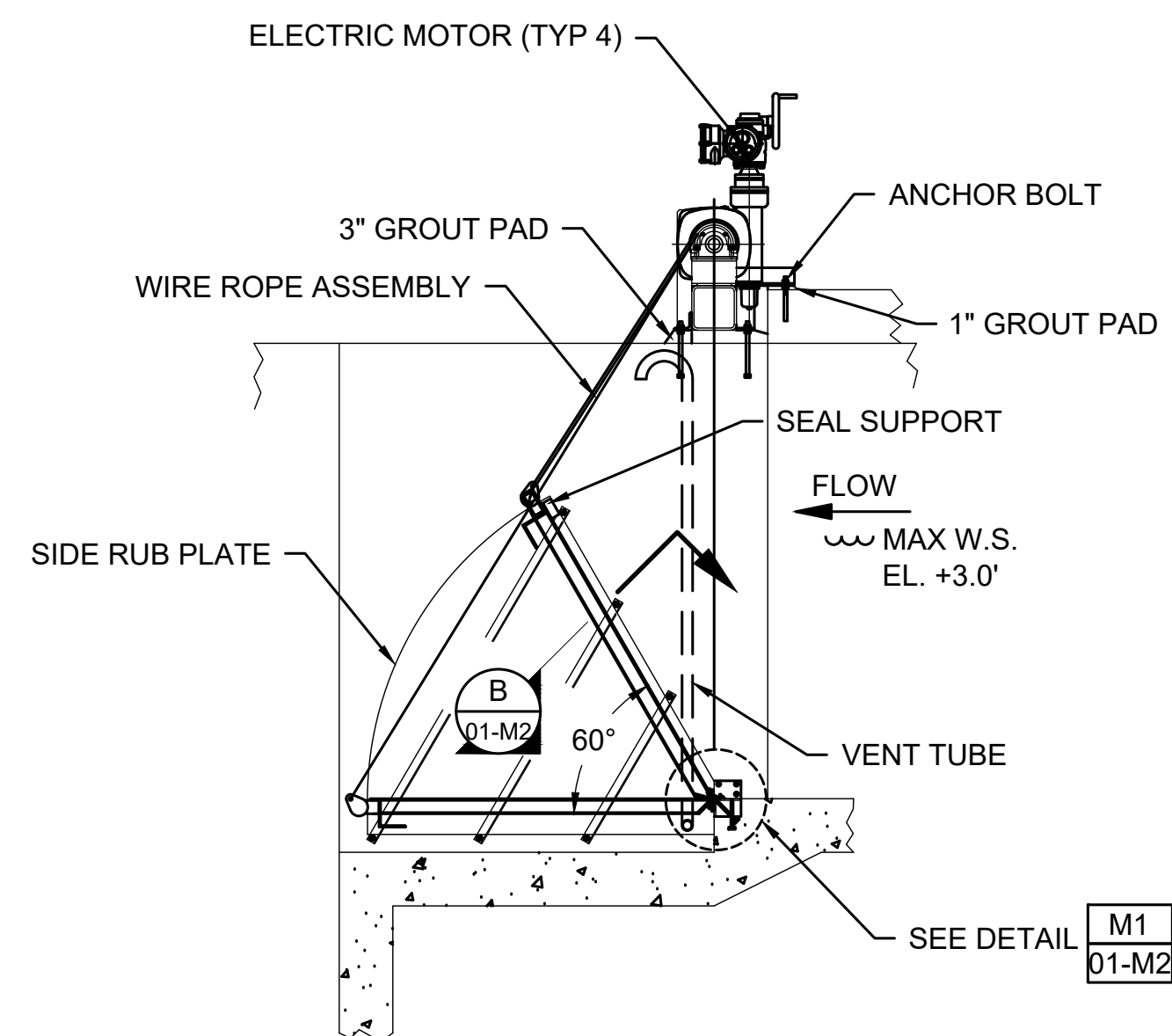
ELEVATION VIEW

SCALE: 1/4" = 1'-0" (22"x34" SHEET)



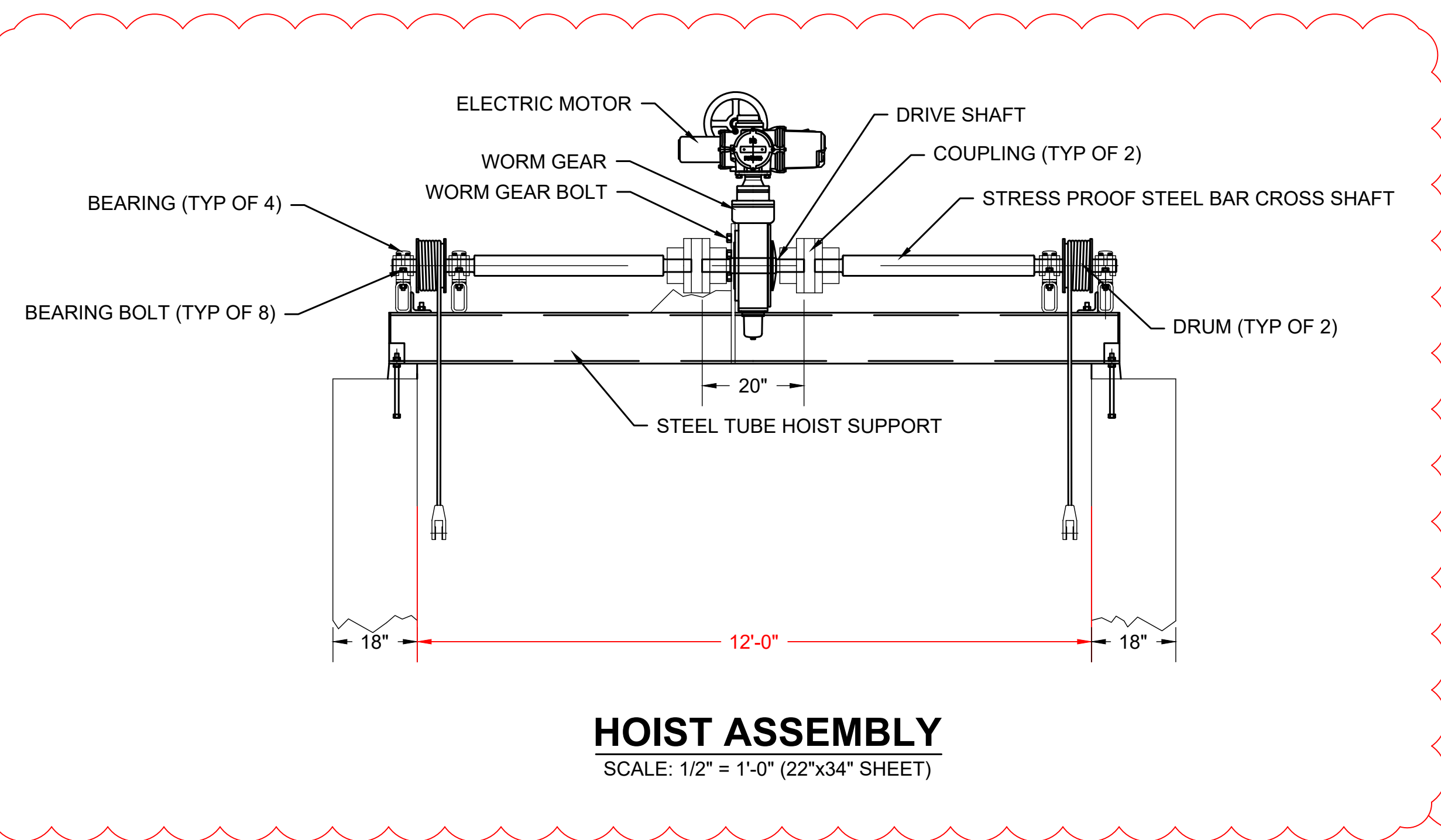
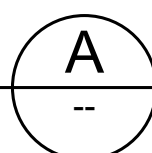
MECHANICAL PLAN VIEW

SCALE: 1/4" = 1'-0" (22"x34" SHEET)



SECTION VIEW

SCALE: 1/2" = 1'-0" (22"x34" SHEET)



HOIST ASSEMBLY

SCALE: 1/2" = 1'-0" (22"x34" SHEET)

NOTES:

1. GROUT FILL AFTER GATE HAS BEEN INSTALLED AND ALIGNED.
2. SIDE WALK BLOCKOUT TO INCREASE AS SHOWN TO ACCOMMODATE ANCHOR BOLTS.
3. THE DRUM REQUIRES 3 DEAD WRAPS PRIOR TO ANCHORING THE WIRE ROPE THRU THE DRUM FLANGE WITH THE GATE IN THE FULL DOWN POSITION.
4. ANCHOR BOLTS ARE DESIGNED FOR USE WITH THE HILTI HIT-RE 500-SD ADHESIVE INJECTION SYSTEM OR EQUAL INSTALLED IN DRY CONCRETE.

WARNING

IF THIS BAR DOES NOT MEASURE 1" (0.0625") IN LENGTH, THE DRAWING IS NOT TO SCALE.

HDC
H. Davis Cole & Associates, LLC
Consulting Engineers

NEW ORLEANS, LA

REVISION RECORD			
MARK	DESCRIPTION	DATE	BY
Δ	ADDENDUM #1	10/31/22	HDC
			HDC
			HDC
			HDC
			HDC
			HDC
			HDC
			HDC
			HDC
			HDC

DESIGNED BY: HDC

DRAWN BY: RM

CHECKED BY: HDC

DATE: Oct-22

DETAILED BY: RM

HDC PROJECT NO. 2021-14

NEW RIVER TILTING WEIR STRUCTURE

LOUISIANA

ASCENSION PARISH

EAST ASCENSION CONSOLIDATION GRAVITY DRAINAGE DISTRICT 1

ASCENSION PARISH

LOUISIANA

ASCENSION PARISH

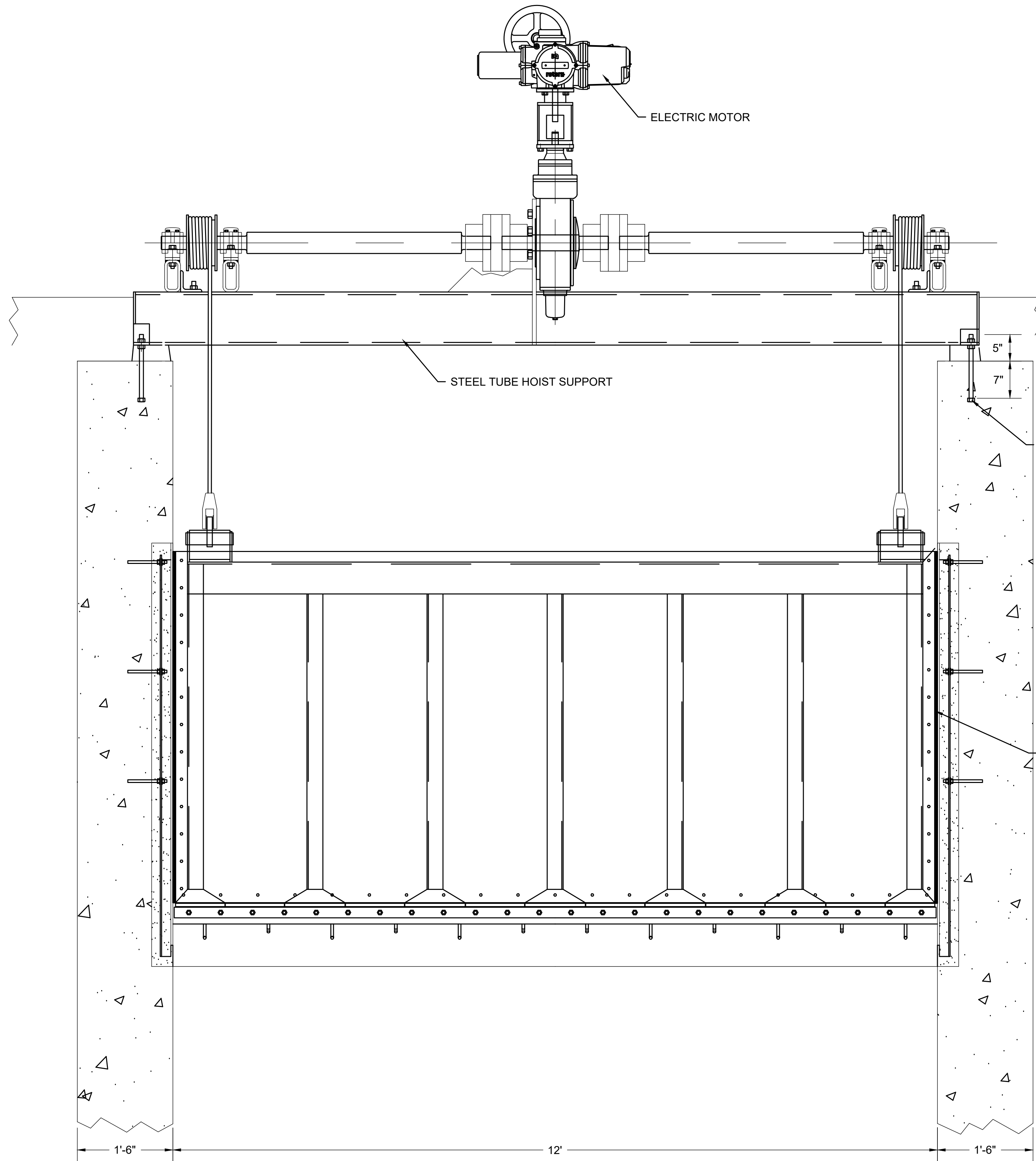
EAST ASCENSION CONSOLIDATION GRAVITY DRAINAGE DISTRICT 1

ASCENSION PARISH

TILTING WEIR MECHANICAL DETAILS

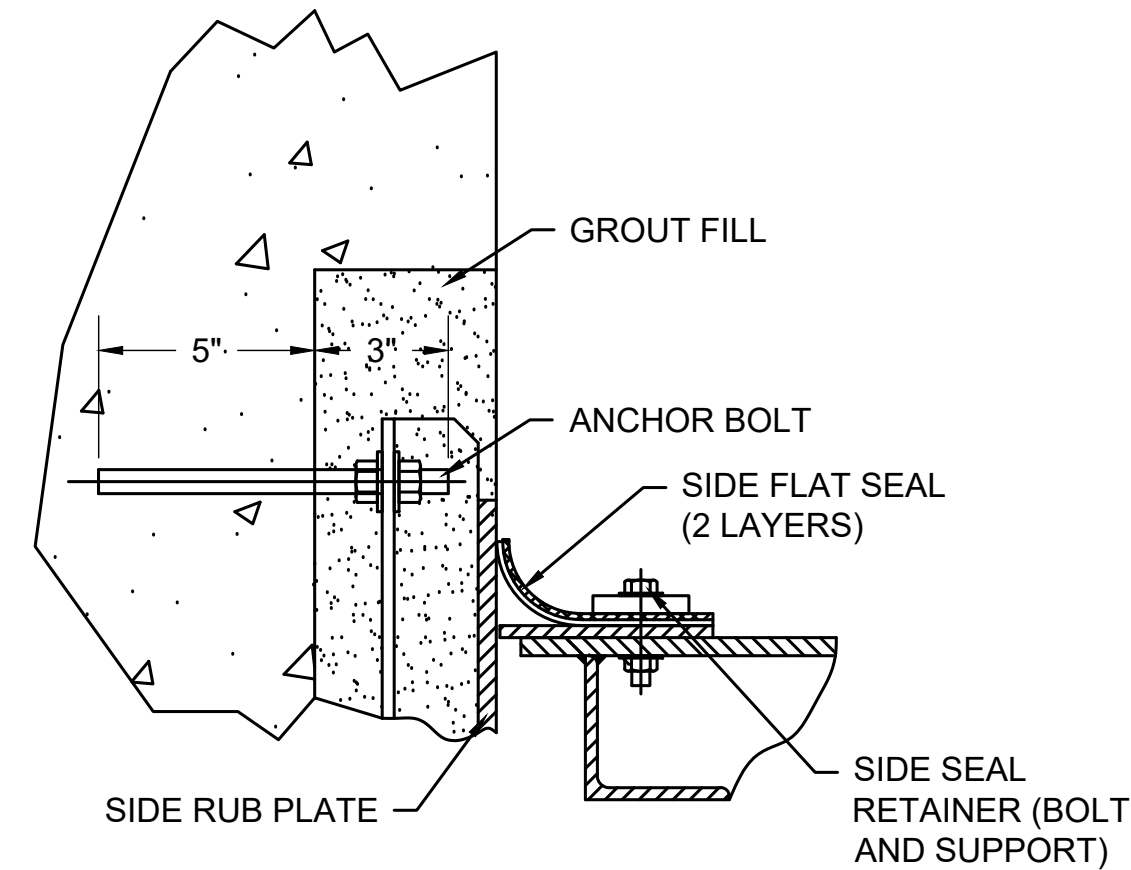
SHEET ID: **01-M1**

SHEET SET: **17** OF **30**



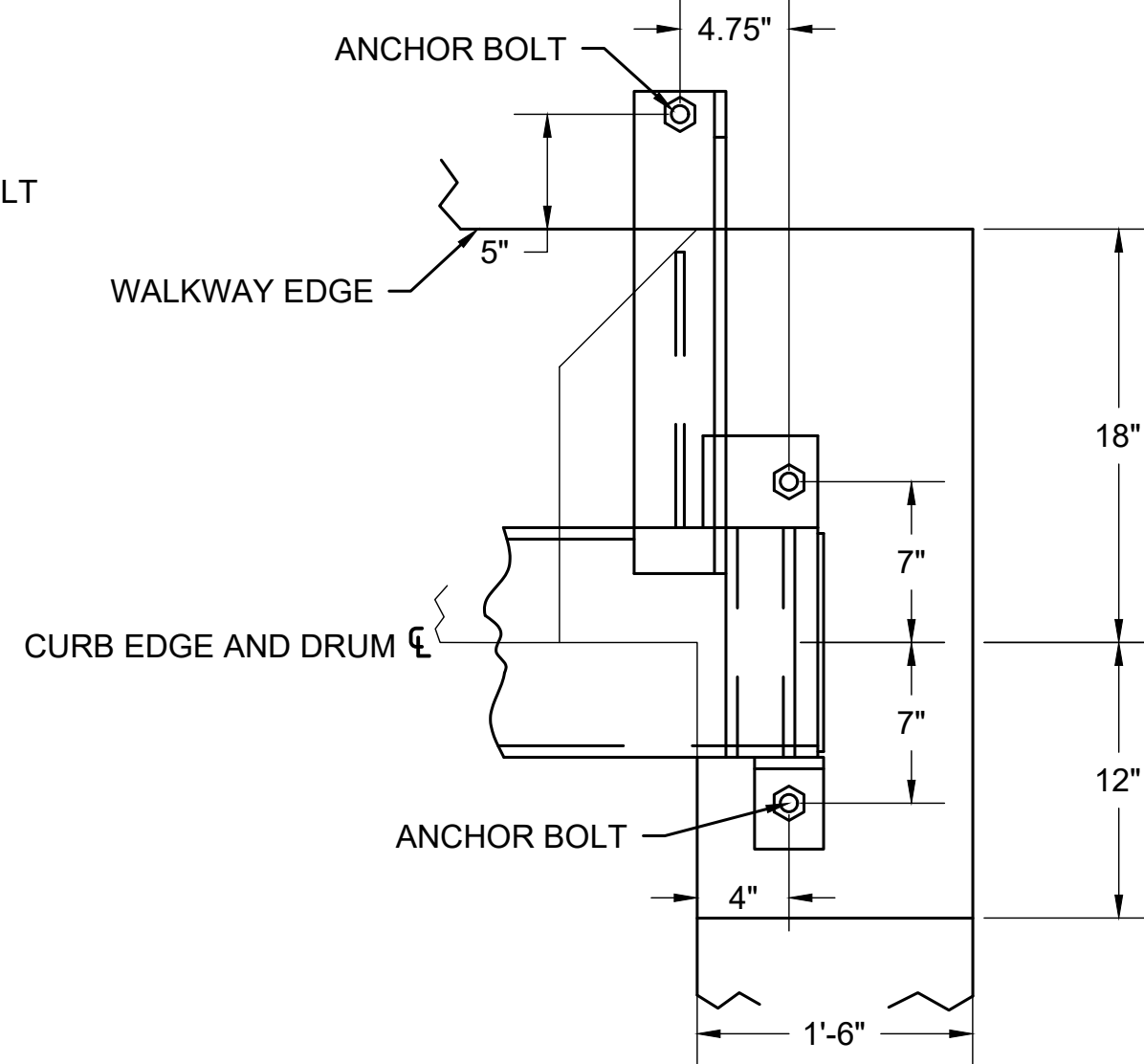
ELEVATION

SCALE: 1/2" = 1'-0" (22"x34" SHEET)



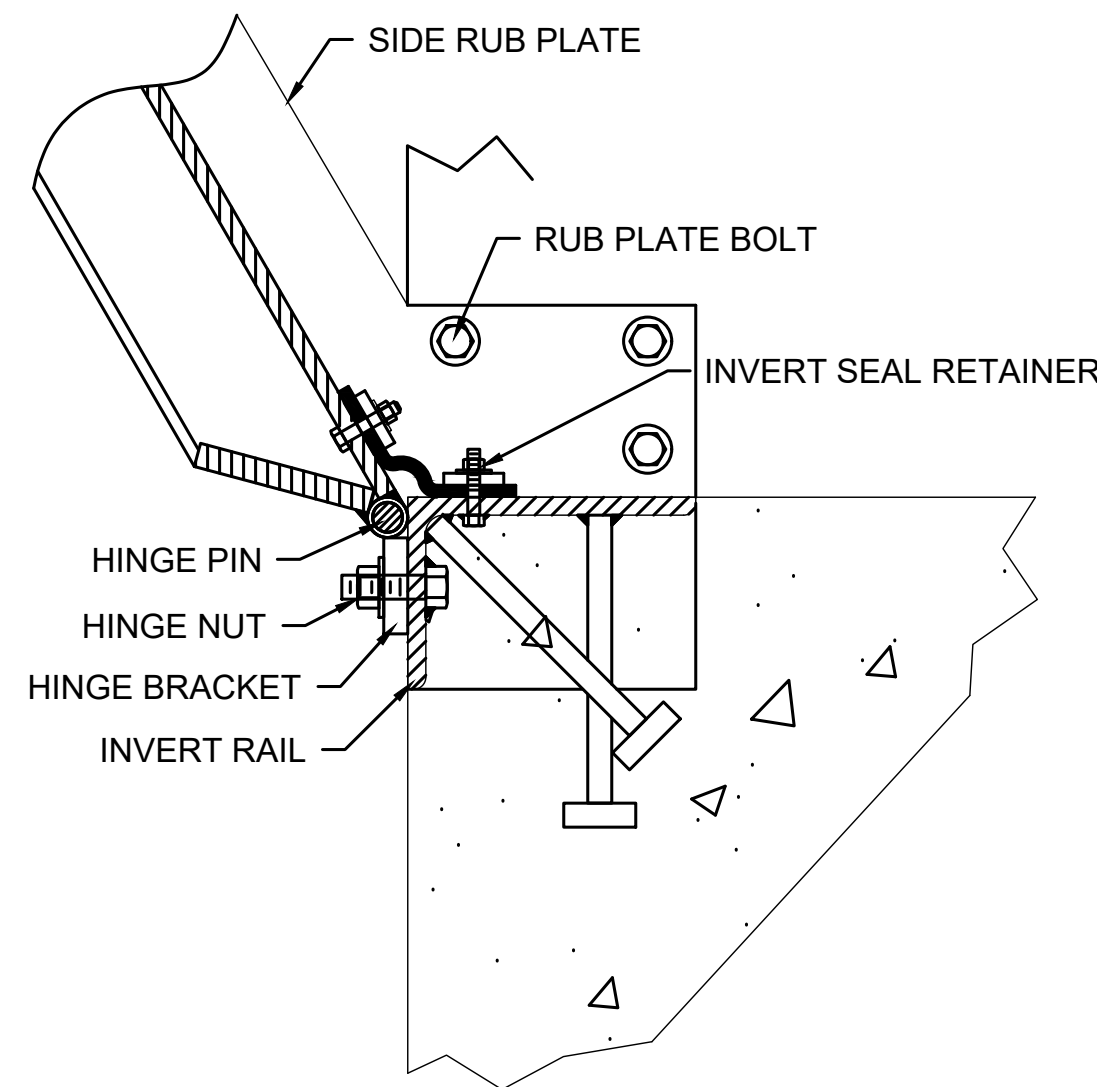
SECTION B

SCALE: N.T.S. 01-M1



SECTION C

SCALE: N.T.S. 01-M1



MECHANICAL DETAIL

SCALE: N.T.S.

NOTES:

1. GROUT FILL AFTER GATE HAS BEEN INSTALLED AND ALIGNED.
2. SIDE WALK BLOCKOUT TO INCREASE AS SHOWN TO ACCOMMODATE ANCHOR BOLTS.
3. THE DRUM REQUIRES 3 DEAD WRAPS PRIOR TO ANCHORING THE WIRE ROPE THRU THE DRUM FLANGE WITH THE GATE IN THE FULL DOWN POSITION.
4. ANCHOR BOLTS ARE DESIGNED FOR USE WITH THE HILTI HIT-RE 500-SD ADHESIVE INJECTION SYSTEM OR EQUAL INSTALLED IN DRY CONCRETE.

WARNING
IF THIS BAR DOES NOT MEASURE 1" (OR 1/2" IF PRINTED SMALLER) DRAWING IS NOT TO SCALE.

HDC
H. Davis Cole & Associates, LLC
Consulting Engineers
NEW ORLEANS, LA

REVISION RECORD			
MARK	DATE	BY	CHKD
ADDENDUM #1	10/31/22	HDC	HDC

DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:
Oct-22	HDC	RM	HDC

DATE	DETAILED BY:	HDC PROJECT NO.
	RM	2021-14

NEW RIVER TILTING WEIR STRUCTURE

LOUISIANA

ASCENSION PARISH

EAST ASCENSION CONSOLIDATION GRAVITY DRAINAGE DISTRICT 1

ASCENSION PARISH

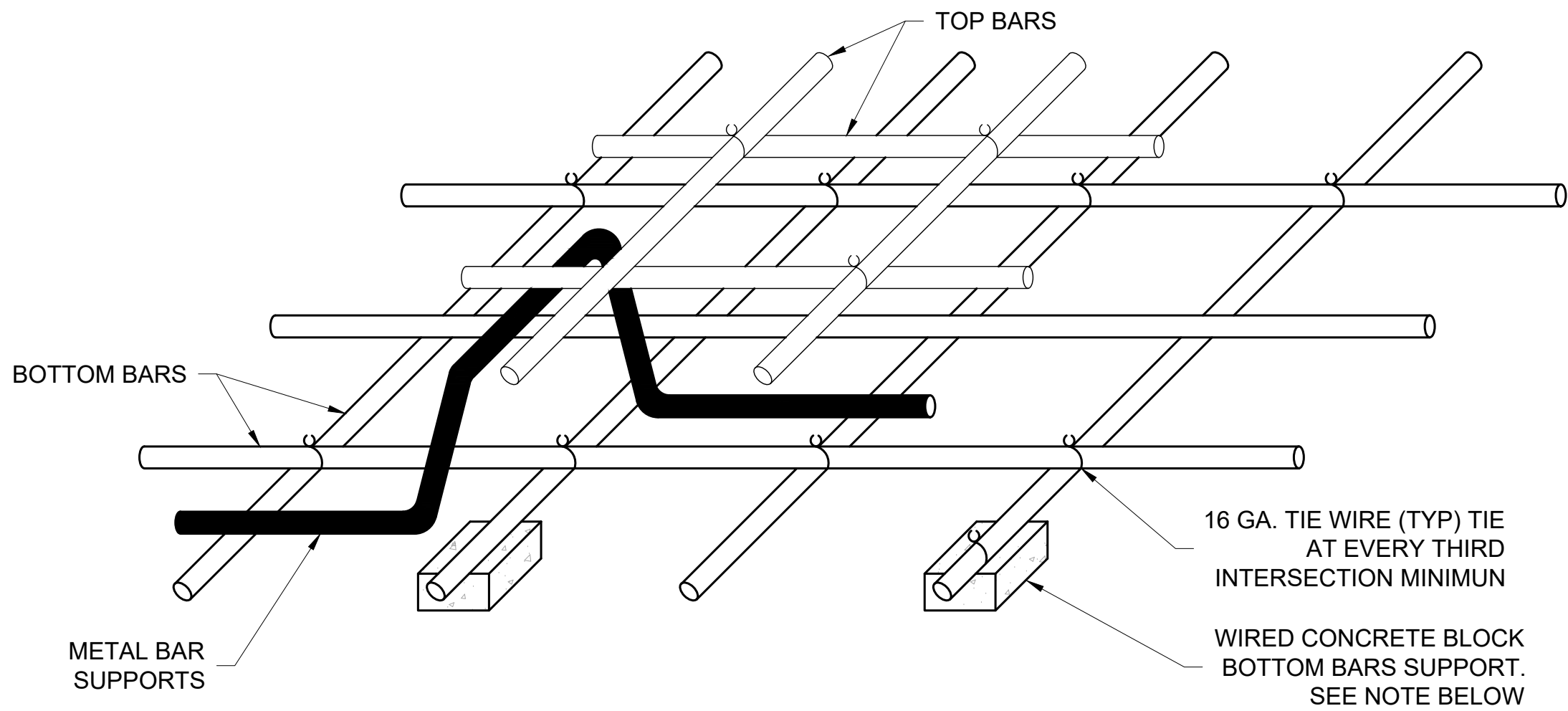
TILTING WEIR MECHANICAL DETAILS

SHEET ID

01-M2

SHEET SET

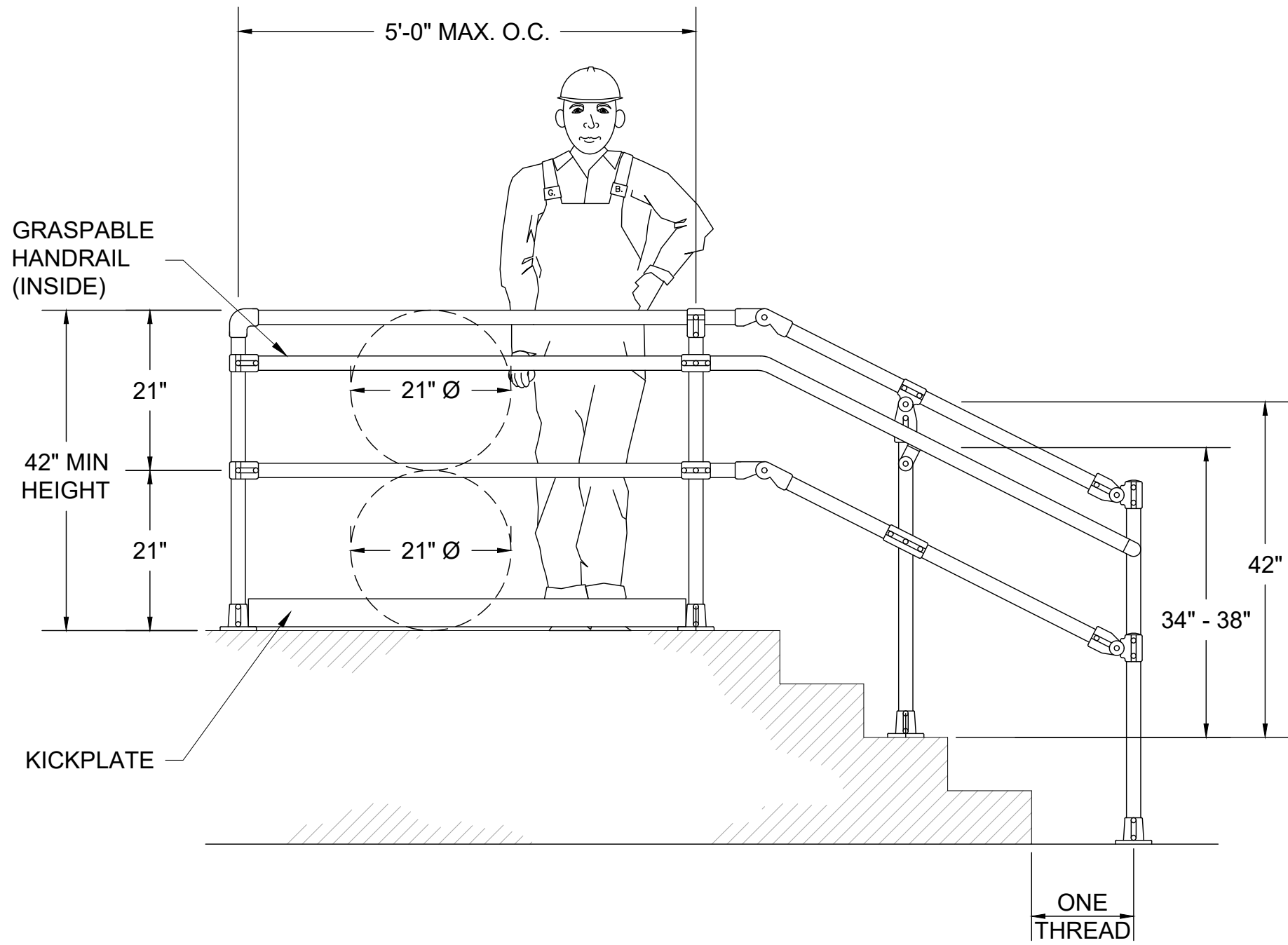
18 OF **30**



NOTE:
METAL BAR SUPPORTS, IF USED IN
SLABS NOT ON GROUND, SHALL
NOT MAKE CONTACT WITH FORMS

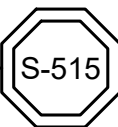
REINFORCEMENT SUPPORT

SCALE: N.T.S. (22"x34" SHEET)



TWO-RAIL SAFETY RAILING

SCALE: N.T.S. (22"x34" SHEET)



- NOTES:
- THIS DRAWING IS A GENERAL ASSEMBLY DRAWING SHOWING TYPICAL RAILING DETAILS AND ARRANGEMENTS ONLY. CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS PRIOR TO FABRICATION.
 - RAILING SUPPLIER SHALL BE RESPONSIBLE FOR DESIGN OF ALL RAIL ELEMENTS AND RAIL ACCESSORIES.
 - RAIL SYSTEM SHALL COMPLY WITH THE DRAWINGS AND SPECIFICATIONS.

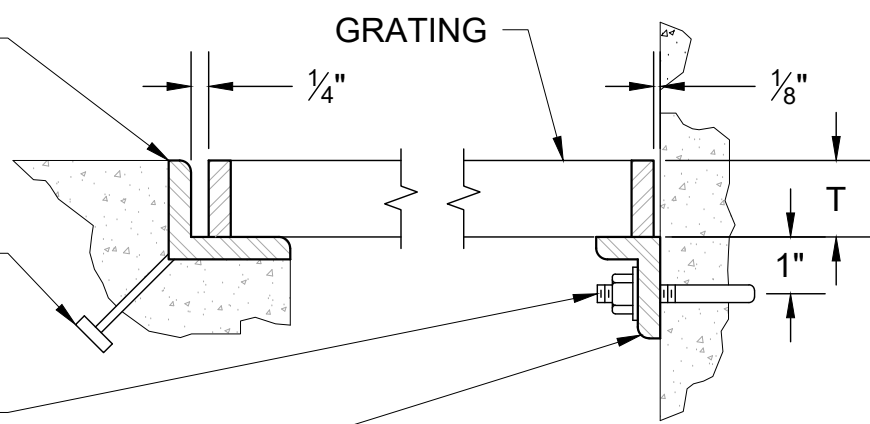
- NOTES:
- TWO-RAIL SYSTEM BY HOLLEANDER SPEED RAIL, OR APPROVED EQUAL.
 - SUBMIT SHOP DRAWINGS FOR REVIEW.

ANGLE FRAME. MATERIAL TO MATCH GRATING. SEE TABLE MITER AND WELD CORNERS.

1/2" Ø x 4" WELDED STUDS @ 12" O.C. (MAX). WELDED TO ANGLE FRAME.

5/8" SS ADHESIVE ANCHOR AND WASHER @ 18" O.C.

SUPPORT ANGLE LLV:
METAL = L 2 1/2" x 1/2" x 1/4"
FIBERGLASS = L-3 x 2 x 3/8"



1/4" STUD WELDED TO GRATING (EPOXY FIBERGLASS) SUPPORT WITH NUT AND WASHER

BEARING BAR

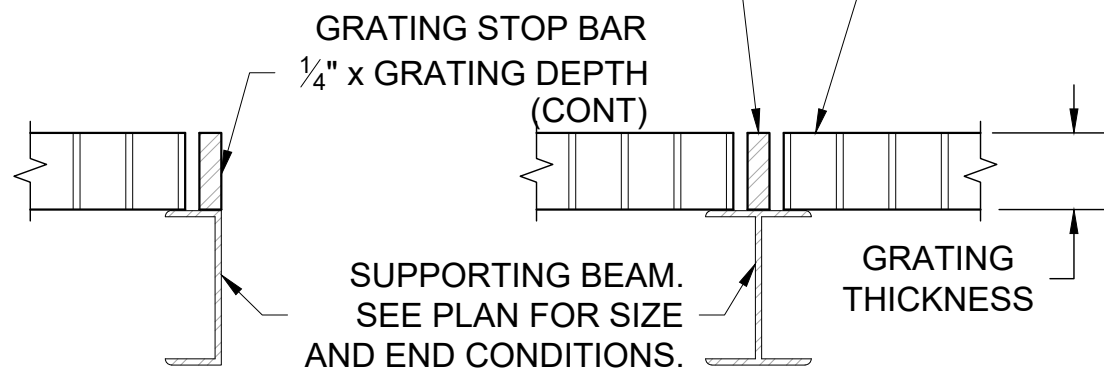
GRATING SEAT OR SUPPORT

GRATING CLIP DETAIL

GRATING FRAME TABLE SIZED TO MATCH GRATING (FOR FIBERGLASS USE CONTINUOUS PURTRUED FIBERGLASS SEAT & ANCHOR)	
GRATING DEPTH T	FRAME ANGLE (STEEL)
1"	1 3/4 x 1 1/4 x 1/4 (1 1/4 x 1 1/4 x 1/4)
1 1/4"	2 x 1 1/2 x 1/4 (1 1/2 x 1 1/2 x 1/4)
1 1/2"	1 3/4 x 1 3/4 x 1/4
1 3/4"	2 x 2 x 1/4
2"	* 2 1/2 x 2 1/2 x 1/2
2 1/4"	2 1/2 x 2 1/2 x 1/4
2 1/2"	3 x 3 x 1/2

* OR USE 2 1/2" X 2 1/2" 1/4" WITH 1/4" SHIM PLATE WELDED TO BOTTOM.

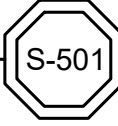
GRATING STOP 1/4" BAR WELD TO SUPPORT BEAM AT ALL INTERMEDIATE AND END SUPPORTS (SEAL WELD GALV'D STEEL. BOND FIBERGLASS BAR TO SUPPLY BEAM). OMIT WHERE GRATING IS CONT. OVER SUPPORT BEAM.



GRATING STOP DETAIL

GRATING

SCALE: N.T.S. (22"x34" SHEET)



- NOTES:
- UNLESS INDICATED OTHERWISE, ALL GRATING SHALL BE ALUMINUM.
 - GRATING DEPTH TO BE DETERMINED BY MANUFACTURER AND APPROVED BY ENGINEER (UNO)
 - ALL ENDS AND OPENINGS SHALL BE Banded.
 - WEIGHT OF GRATING SECTION SHALL NOT EXCEED 80 LBS.
 - METAL BEARING BARS SHALL BE DEPTH T X 3/16" AT 1 3/16" O.C., CROSS BARS SHALL BE AT 4" O.C.
 - PROVIDE A MINIMUM OF 4 PANEL CLIPS PER GRATING PANEL, APPROX. 4" FROM PANEL CORNERS. MAXIMUM CLIP SPACING AT 36" O.C.
 - MATERIALS:
 - ALUMINUM GRATING - USE ALUMINUM ANGLE SUPPORTS AND STAINLESS STEEL BOLTS AND CLIPS.
 - GALVANIZED STEEL GRATING - USE STEEL ANGLE SUPPORTS, BOLTS, AND CLIPS. GALVANIZED AFTER FABRICATION.
 - STAINLESS STEEL GRATING - USE STAINLESS STEEL ANGLE SUPPORTS, BOLTS AND CLIPS.
 - FIBERGLASS GRATING - USE FIBERGLASS FOR ALL COMPONENTS, EXCEPT DRILLED ANCHORS; ALL CUT EDGES SHALL BE SEALED WITH RESIN. BONDING: USE EPOXY ADHESIVE BONDING AGENT.



WARNING



IF THIS BAR DOES NOT MEASURE 1" (OR EQUIVALENT), DRAWING IS NOT TO SCALE.



NEW ORLEANS, LA

REVISION RECORD	DATE	BY	CHKD
ADDENDUM #1	10/31/22	HDC	HDC
DESCRIPTION			
MARK			

DESIGNED BY:	HDC
DRAWN BY:	RM
CHECKED BY:	HDC
DATE:	Oct-22
DETAILED BY:	RM
HDC PROJECT NO.	2021-14

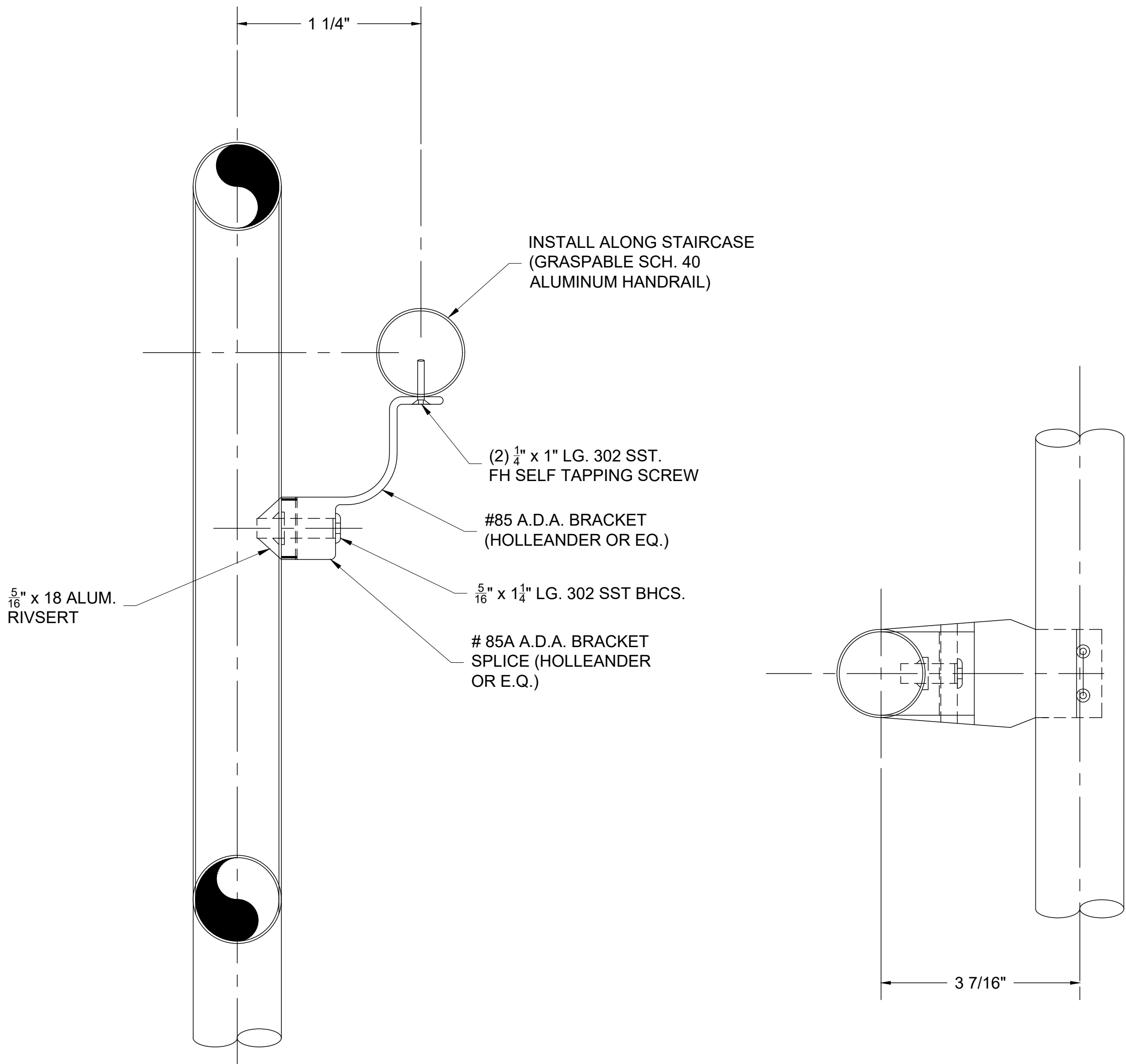
NEW RIVER TILTING WEIR STRUCTURE	LOUISIANA
ASCENSION PARISH	EAST ASCENSION CONSOLIDATION GRAVITY DRAINAGE DISTRICT 1
	ASCENSION PARISH
	STRUCTURAL DETAILS

SHEET ID

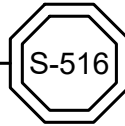
S1

SHEET SET

19 OF 30



SAFETY RAIL SECTION
SCALE: N.T.S. (22"x34" SHEET)



NEW RIVER TILTING WEIR STRUCTURE

ASCENSION PARISH

LOUISIANA

EAST ASCENSION CONSOLIDATION GRAVITY DRAINAGE DISTRICT 1

ASCENSION PARISH

STRUCTURAL DETAILS

DESIGNED BY: HDC

DRAWN BY: RM

CHECKED BY: HDC

DATE: Oct-22

REVISION RECORD

NO.	DESCRIPTION	DATE	BY	CHKD
1	ADDENDUM #1	10/31/22	HDC	HDC

10/31/22

HOWARD DAVIS COLE

License No. 30249

REGISTERED PROFESSIONAL CIVIL ENGINEER

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" LONG, THE DRAWING IS NOT TO SCALE.

HDC

H. Davis Cole & Associates, LLC

Consulting Engineers

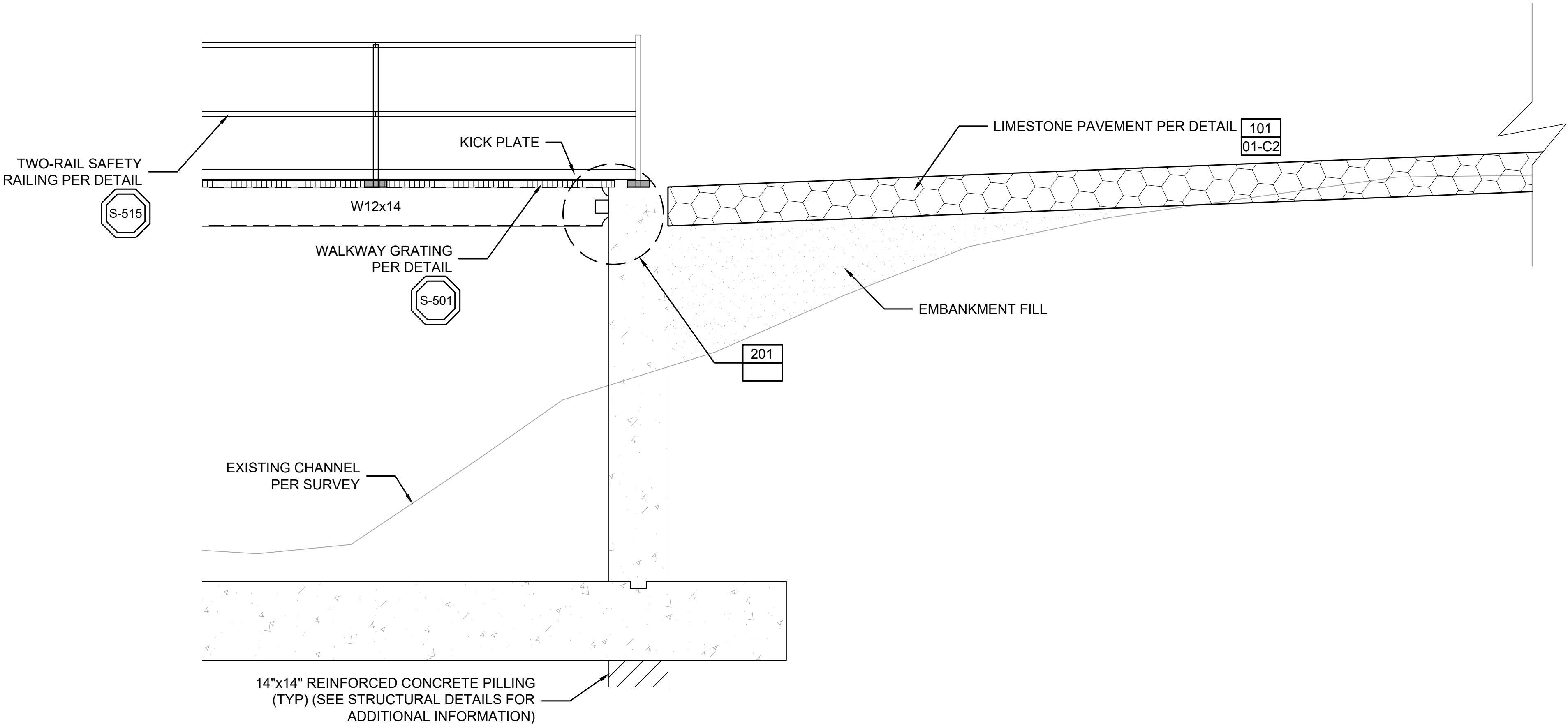
NEW ORLEANS, LA

SHEET ID

S2

SHEET SET

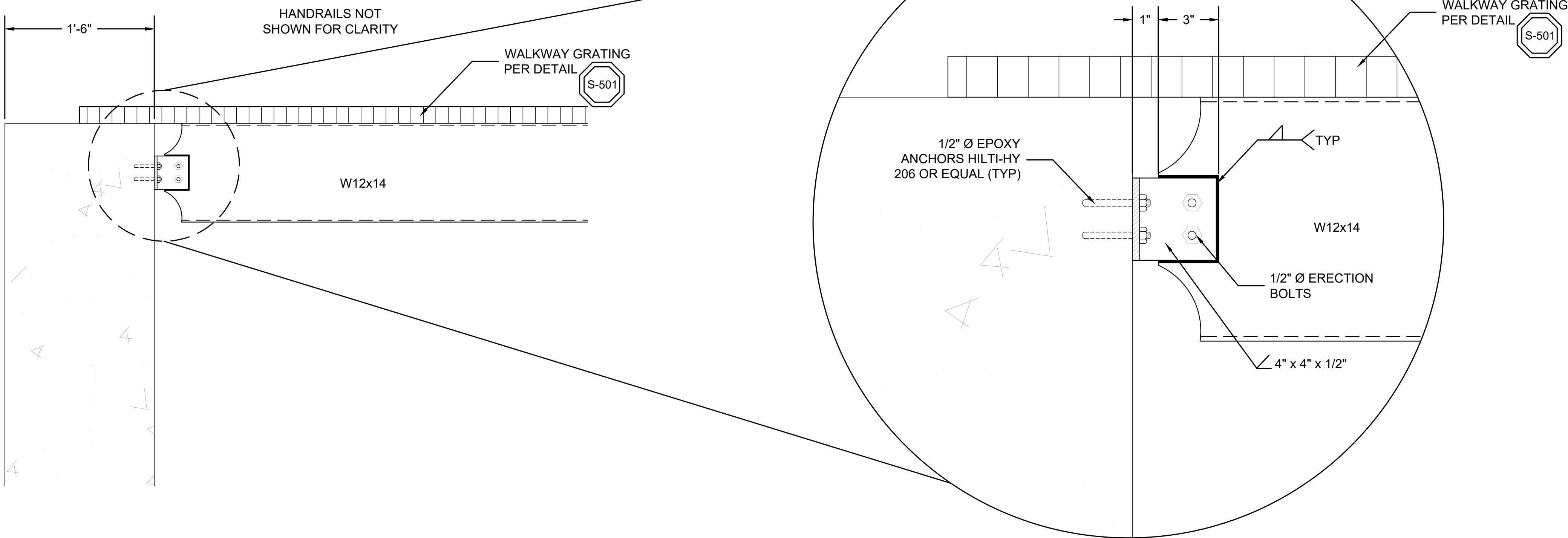
20 OF **30**



WEIR STRUCTURE TO WALKWAY

SCALE: N.T.S.

200



WEIR STRUCTURE TO WALKWAY CONNECTION

SCALE: N.T.S.

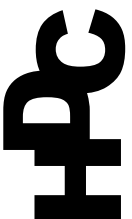
201



WARNING



IF THIS BAR DOES NOT MEASURE 1" (OR EQUIVALENT), THE DRAWING IS NOT TO SCALE.



H. Davis Cole & Associates, LLC
Consulting Engineers

NEW ORLEANS, LA

REVISION RECORD			
MARK	DESCRIPTION	DATE	BY
Δ	ADDENDUM #1	10/31/22	HDC
			HDC
			HDC
			HDC
			HDC

DESIGNED BY:	HDC
DRAWN BY:	RM
CHECKED BY:	HDC
DATE:	Oct-22
DETAILED BY:	RM
HDC PROJECT NO.	2021-14

NEW RIVER TILTING WEIR STRUCTURE	LOUISIANA
ASCENSION PARISH	EAST ASCENSION CONSOLIDATION GRAVITY DRAINAGE DISTRICT 1
	ASCENSION PARISH
STRUCTURAL DETAILS	

SHEET ID	S3
SHEET SET	21 OF 30

[illegible]