

RECORD DRAWINGS
 Revisions Drawn by H. HERBICE Date 2/4/87
 THESE RECORD DRAWINGS HAVE BEEN PREPARED IN PART OR IN WHOLE BY THE ENGINEER OR ARCHITECT AND ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

App	Drawing No
	5

Date	June 1983
Designed by	O.J.A.
Drawn by	T.L.P.
Checked by	J.C.P.
Scale	NONE



San Antonio
WASTEWATER FACILITIES IMPROVEMENTS

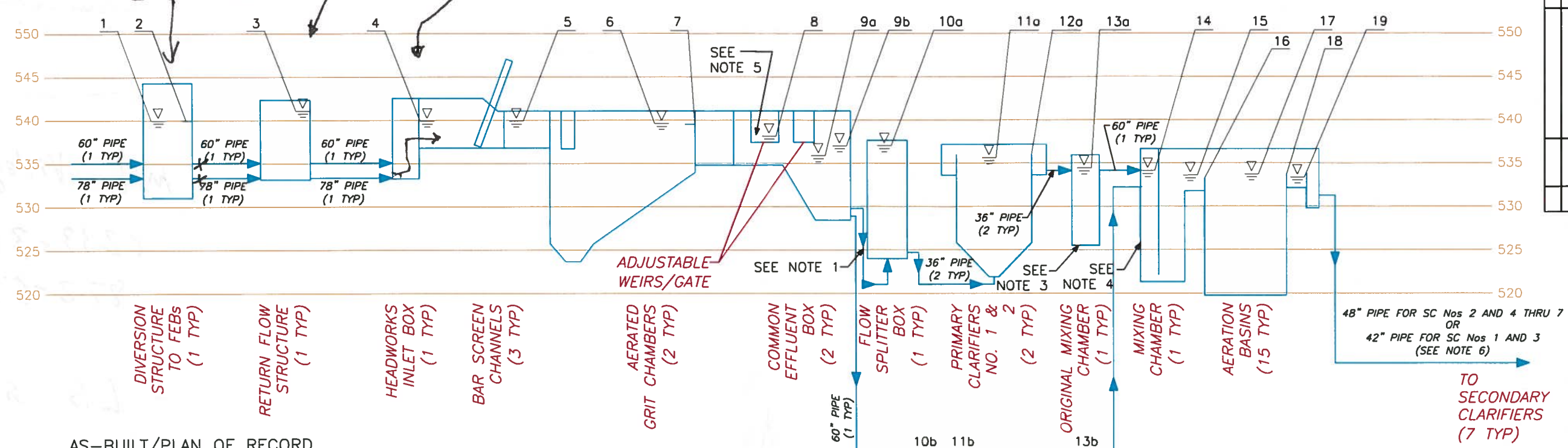
Revisions	No	Date

FLOW DIAGRAM
 IMPROVEMENTS AND EXPANSIONS TO LEON CREEK TREATMENT PLANT

Sheet C-2
 of 99

9110217
 LC 83-6501

DB(MHS 66902) MH62373 MH62312 (headworks)

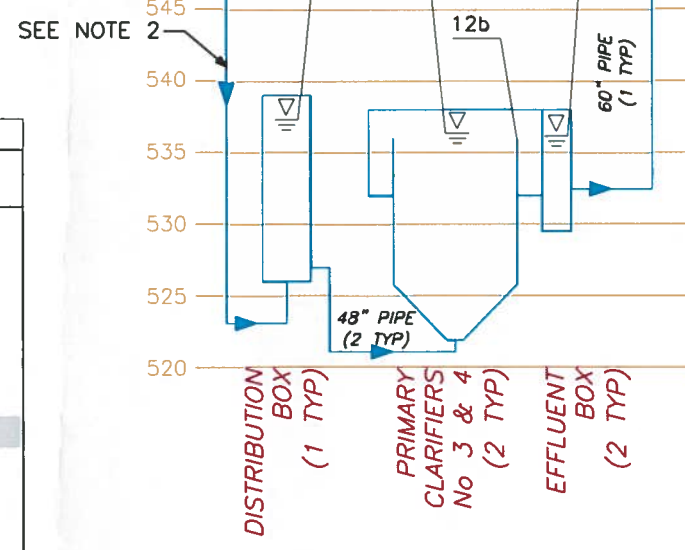


AS-BUILT/PLAN OF RECORD
SUBMITTED FEBRUARY 2014

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No.	Structure	Location Description	WSELs (Q = 92 MGD)	WSELs (Q = 70 MGD)	WSELs (Q = 33 MGD)
1	Diversion Structure	Influent Box (Upstream of Weirs)	542.35	541.41	540.75
2	Diversion Structure	Weir Elevation (to SBSP Interconnect Line)	541.05	540.11	539.45
2	Diversion Structure	Weir Elevation (to FEBs)	541.56	540.63	Closed
3	Return Flow Structure	Basin	542.00	541.20	540.69
4	Headworks	Influent Channel (Upstream of Bar Screen)	541.59	540.95	540.63
5	Headworks	Effluent Channel (Downstream of Bar Screen)	541.24	540.69	540.54
6	Aerated Grit Chamber	Main Basin	540.54	540.20	540.17
7	Aerated Grit Chamber	Weir Elevation	539.52	539.52	539.52
8	Common Effluent Box	Downstream Section of Basin	539.38	538.24	537.55
9a	Common Effluent Box	Flow Splitter Box Drop Box	539.29	537.24	offline
10a	Primary Clarifier No 1 & 2	Flow Splitter Box	538.04	536.68	offline
11a	Primary Clarifier No 1 & 2	Basin	536.97	536.18	offline
12a	Primary Clarifier No 1 & 2	Weir Elevation	536.00	536.00	536.00
13a	Primary Clarifier No 1 & 2	Effluent Box	536.86	535.87	offline
9b	Common Effluent Box	Flow Splitter Box Drop Box	539.32	538.14	537.42
10b	Primary Clarifier No 3 & 4	Distribution Box	537.28	536.67	536.49
11b	Primary Clarifier No 3 & 4	Basin	536.80	536.34	536.30
12b	Primary Clarifier No 3 & 4	Weir Elevation	536.13	536.13	536.13
13b	Primary Clarifier No 3 & 4	Effluent Box	536.74	536.10	535.38
14	Mixing Chamber	Inlet	535.69	535.34	534.90
15	Aeration Basin	Influent Channel	534.88	534.79	534.68
16	Aeration Basin	Weir Elevation	534.25	534.25	534.25
17	Aeration Basin	Main Basin	534.15	534.11	534.06
18	Aeration Basin	Weir Elevation	533.84	533.84	533.84
19	Aeration Basin	Effluent Channel	533.56	533.69	533.53

THIS HYDRAULIC PROFILE IS PRESENTED FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES. IT WAS PRESENTED IN THE PRELIMINARY ENGINEERING REPORT DATED MAY 31, 2011. THE HYDRAULIC PROFILE DOES NOT REFLECT IMPROVEMENTS FROM THE LEON CREEK WATER RECYCLING CENTER INTERCONNECT TO THE SBSP PROJECT, WHICH INCLUDE, BUT ARE NOT LIMITED TO, FLOW DISTRIBUTION MODIFICATIONS AND FLOW RESTRICTIONS AT THE HEADWORKS.



NOTES:

- METER VAULT AND ALL PIPE SIZE CHANGES NOT SHOWN FOR CLARITY. REFER TO FIGURE No 2-2a IN THE PRELIMINARY ENGINEERING REPORT.
- METER VAULT, ALL PIPE SIZE CHANGES AND JUNCTION BOXES NOT SHOWN FOR CLARITY. REFER TO FIGURE No 2-2a IN THE PRELIMINARY ENGINEERING REPORT.
- DEMOLISHED MIXING CHAMBER (WHICH SERVES AS A JUNCTION BOX) NOT SHOWN FOR CLARITY. REFER TO FIGURE No 2-2a IN THE PRELIMINARY ENGINEERING REPORT.
- HYDRAULIC PROFILE DOES NOT SHOW RAS, RETURN FLOW, DRAIN AND OTHER MISCELLANEOUS PIPELINES. REFER TO FIGURE No 2-2a IN THE PRELIMINARY ENGINEERING REPORT.
- ELEVATION VARIES. PLANT OPERATORS ADJUST GATE POSITIONING BASED ON DESIRED FLOW SPLIT TO THE PRIMARY CLARIFIERS.
- FLOWPATH SHOWN IS REPRESENTATIVE OF SECONDARY CLARIFIER No 4. REFER TO FIGURE No 2-2B IN THE PRELIMINARY ENGINEERING REPORT FOR ALTERNATE FLOWPATHS FROM OTHER SECONDARY CLARIFIERS.

SAWS Job No. 10-6501

300 E. SONTERRA BLVD. STE. 1250
SAN ANTONIO, TEXAS 78258
TBE FIRM NO. : F-1741

CP&Y
in association with
CDM Smith
SAN ANTONIO, TEXAS 78217
1777 N.E. LOOP 410, SUITE. 500
TBE FIRM NO. : F-3043

Date: DECEMBER 2011
Des'gn. by: AMK
Drawn by: DWS
Checked by: DJH
Scale: NONE

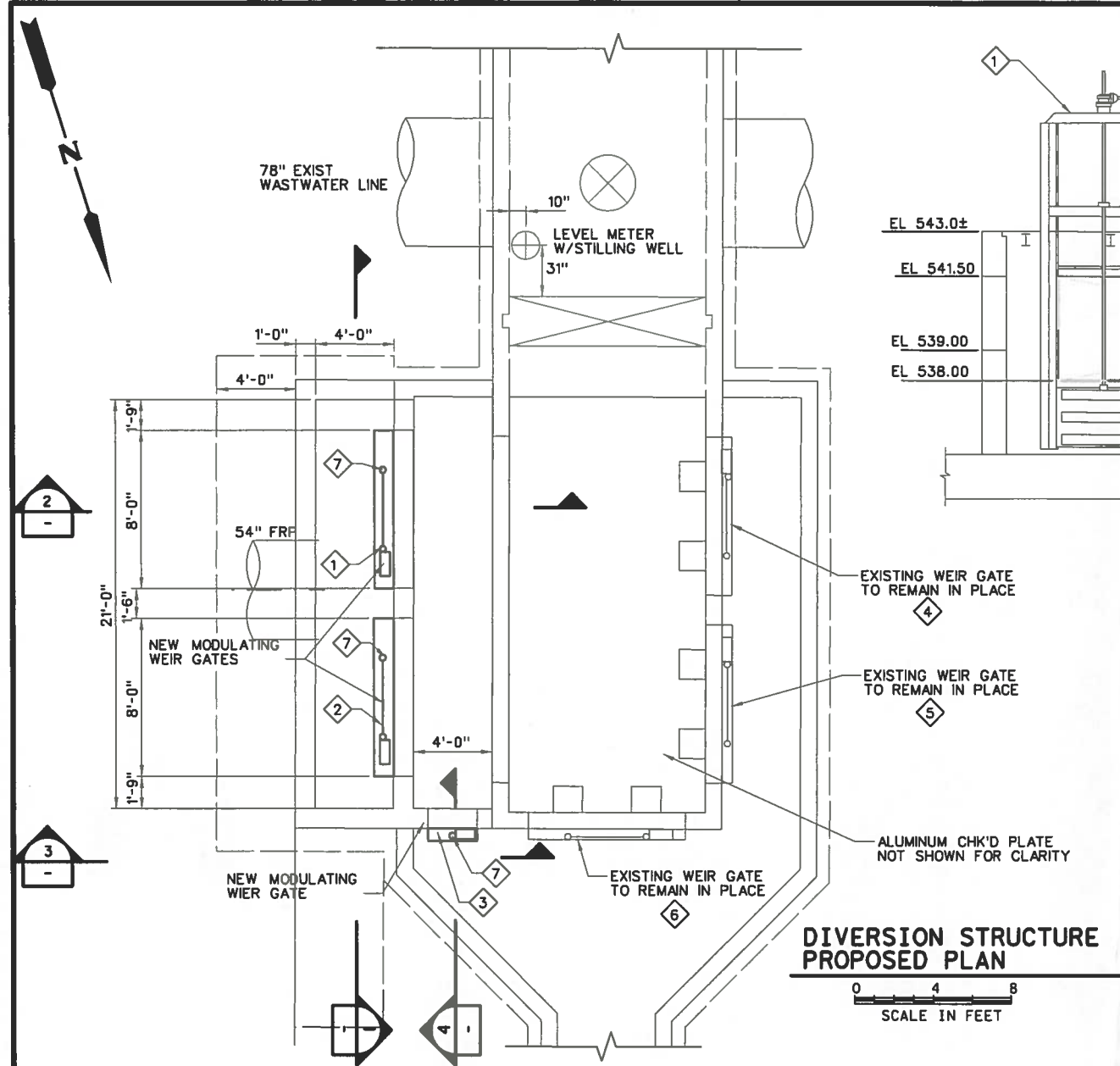
THE SEAL THIS ORIGINALLY APPLIED TO THIS DOCUMENT WAS ALTERED ON DATE 12/19/13 BY: DAWN R. ANDERSON. ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

SAWS JOB NO. 10-6501
LEON CREEK WRC INTERCONNECT TO THE SBSP
LEON CREEK WRC EXISTING HYDRAULIC PROFILE 1

SAN ANTONIO WATER SYSTEM

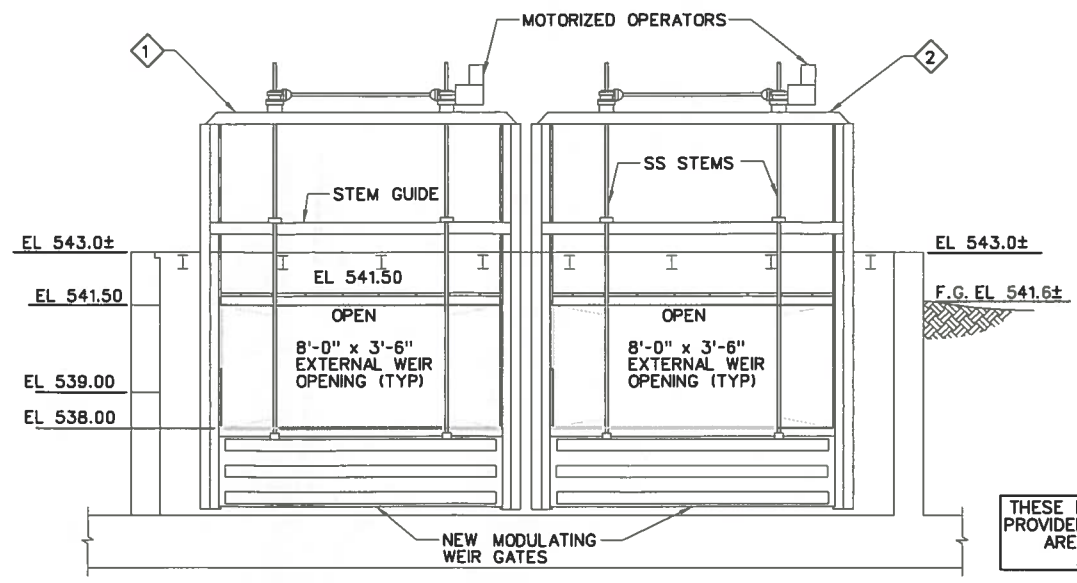
SHEET G-15
16 OF 113

MA566902

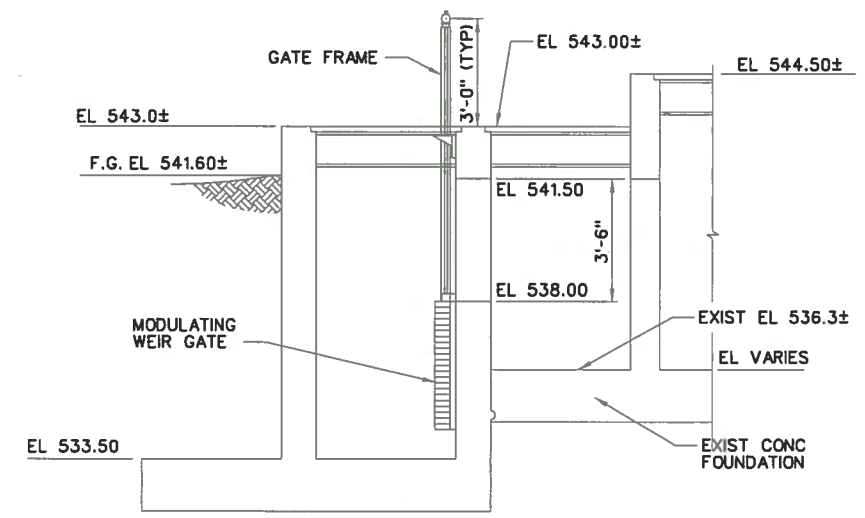


NOTES:

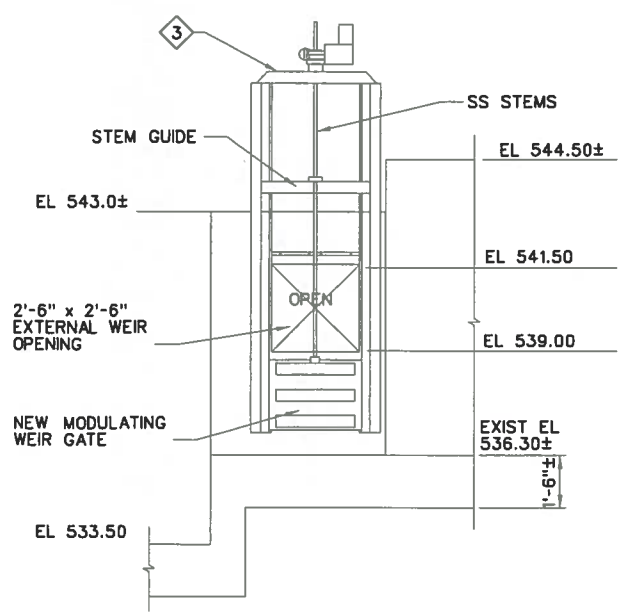
1. ALL EXISTING DIMENSIONS AND ELEVATIONS ARE APPROXIMATE, BASED ON AVAILABLE INFORMATION.
2. A TOTAL OF THREE (3) NEW GATES SHALL BE INSTALLED IN THE LOCATIONS AS SHOWN. THE EXISTING GATES SHALL REMAIN IN PLACE AS SHOWN.
3. NEW GATES (LC-01-IC-GATE-01 AND LC-01-IC-GATE-26) SHALL BE DOWNWARD OPENING, WEIR TYPE, DOUBLE STEMMED AND SHALL INCLUDE MOTORIZED ACTUATORS.
4. NEW GATES (LC-01-EQ-GATE-04) SHALL BE DOWNWARD OPENING, WEIR TYPE, SINGLE STEMMED AND SHALL INCLUDE MOTORIZED ACTUATORS.
5. NEW GATES SHALL BE FACE MOUNTED ON THE OUTSIDE OF THE NEW CONCRETE WALL AS SHOWN.
6. EXISTING T-LOCK LINER INSIDE STRUCTURE SHALL REMAIN IN PLACE. LINER MAY BE CUT ONLY FOR INSTALLATION OF NEW OPENINGS. ANY DAMAGE DONE BY CONTRACTOR TO THE EXISTING LINER SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE IN ACCORDANCE WITH LINER MANUFACTURE'S RECOMMENDATIONS.
7. REMOVAL OF THE TWO (2) EXISTING GATES SHALL BE ACCOMPLISHED AFTER NEW GATES HAVE BEEN INSTALLED, TESTED AND ARE FULLY OPERATIONAL.
8. CONTRACTOR SHALL REMOVE EXISTING ALUMINUM CHECKERED PLATES ONLY AS NECESSARY FOR INSTALLATION OF THE NEW GATES. EXISTING ALUMINUM CHECKERED PLATES SHALL BE REPLACED AFTER NEW GATES HAVE BEEN INSTALLED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ISOLATION OF WORK AREA AND DEWATERING OF THE STRUCTURE (IF NECESSARY).
10. CONTRACTOR SHALL PROVIDE A DETAILED SAFETY PLAN FOR REVIEW PRIOR TO START OF WORK. SAFETY PLAN SHALL DESCRIBE IN DETAIL ALL MEASURES THAT WILL BE TAKEN FOR THE EVACUATION OF THE STRUCTURE DURING HIGH FLOW. SAFETY PLAN SHALL ALSO INCLUDE DETAILED SAFETY PROVISIONS FOR WORKING IN HAZARDOUS AREA, INCLUDING, BUT NOT LIMITED TO ALARMS, FANS, GAS MONITORING EQUIPMENT, ETC.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND ELEVATIONS FOR NEW GATE FRAMES PRIOR TO ORDERING, AND SHALL VERIFY DIMENSIONS ON SHOP DRAWINGS.
12. CONTRACTOR TO COORDINATE WITH CONSTRUCTION INSPECTOR FOR ALL ACTIVITIES REQUIRING THE ISOLATION OR SHUT DOWN OF EXISTING FACILITIES.
13. CONTRACTOR SHALL MAKE EVERY EFFORT TO PERFORM HIS EXCAVATION AND CONSTRUCTION ACTIVITIES WITHOUT DAMAGING ADJOINING STRUCTURES AND INFRASTRUCTURE. ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



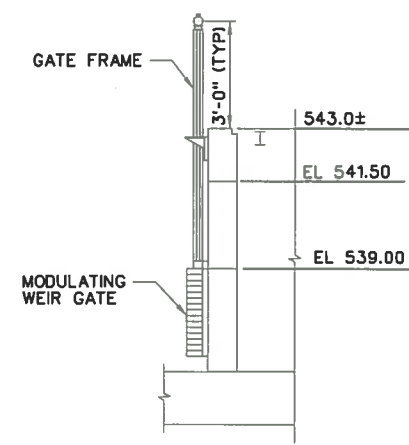
SECTION 1
SCALE IN FEET



SECTION 2
SCALE IN FEET



SECTION 3
SCALE IN FEET



SECTION 4
SCALE IN FEET

IDENTIFICATION LEGEND

- 1 LC-01-IC-GATE-01
- 2 LC-01-IC-GATE-02
- 3 LC-01-EQ-GATE-04
- 4 LC-01-EQ-GATE-01
- 5 LC-01-EQ-GATE-02
- 6 LC-01-EQ-GATE-03
- 7 CONTRACTOR SHALL PROVIDE OPENINGS IN CHECKERED PLATING FOR NEW GATE FRAMES AND STEMS AS REQUIRED. CONTRACTOR SHALL ADD ADDITIONAL GRATING SUPPORTS AS REQUIRED TO FRAME OPENINGS.

AS-BUILT/PLAN OF RECORD
SUBMITTED MARCH 2015

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SAWS Job No.
10-6501

300 E. SONTERRA BLVD., STE. 1250
SAN ANTONIO, TEXAS 78258
TYPE FIRM NO. : F-1741



Date: DECEMBER 2011
Design by: EJ
Drawn by: JM
Checked by: JM
Scale: AS SHOWN

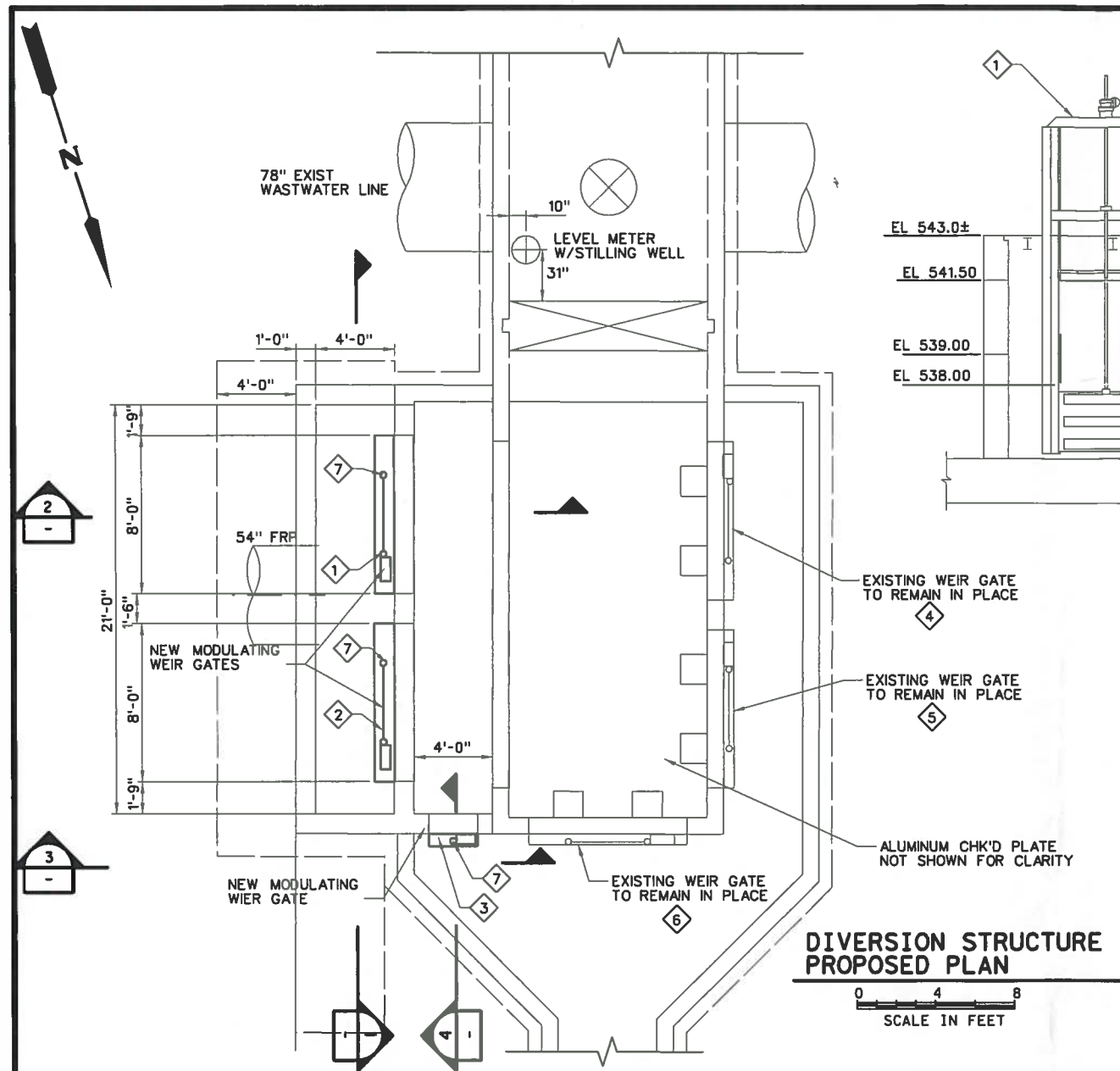
THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS REVOKED BY JOSHUA MARAZZINI ON DATE 12/19/13 ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT

SAN ANTONIO
WATER SYSTEM



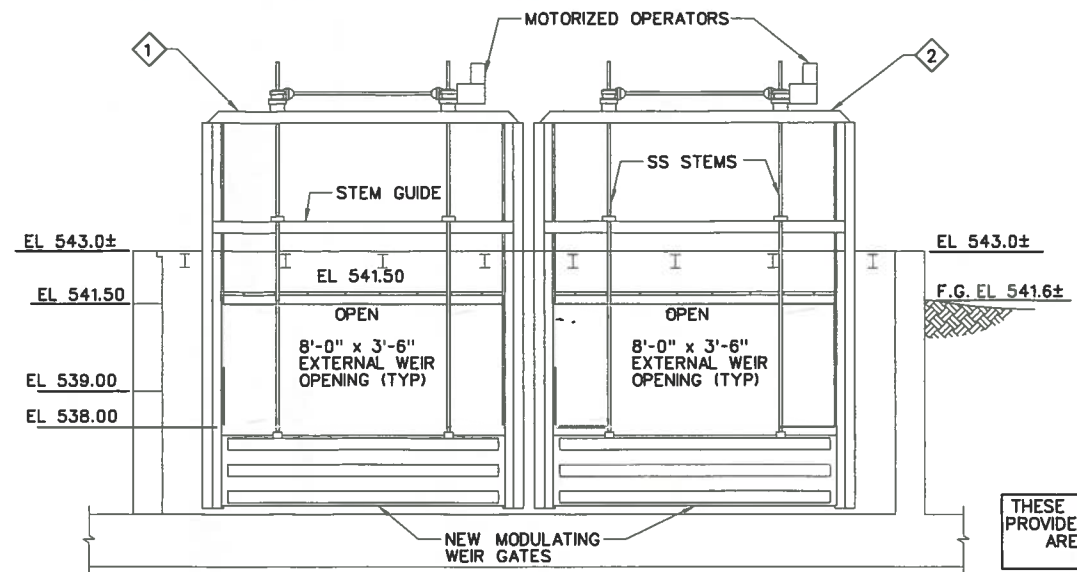
SAWS JOB NO. 10-6501
LEON CREEK WRC
INTERCONNECT TO THE SBSP
FEB DIVERSION STRUCTURE
PLAN AND SECTION

SHEET M-1



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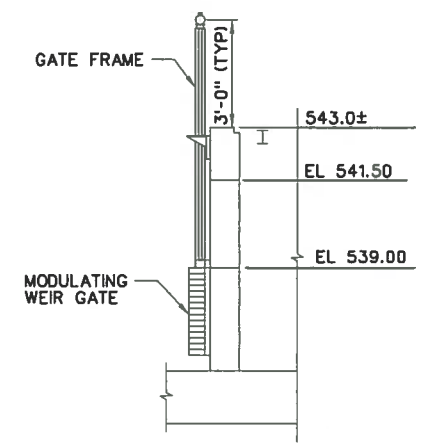
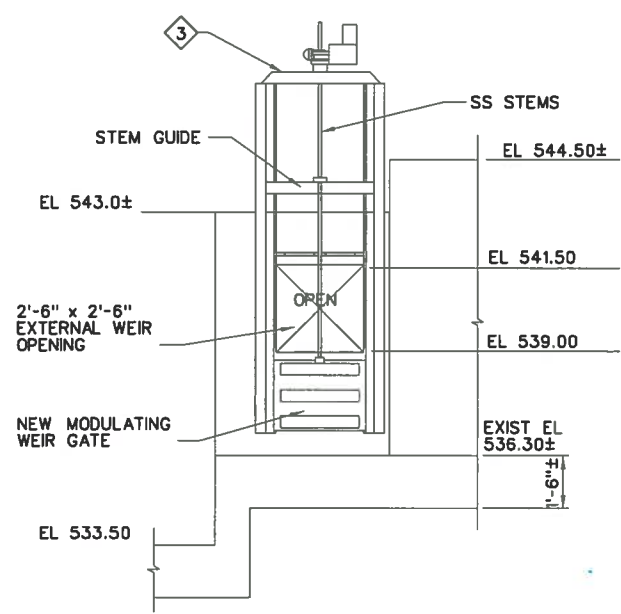
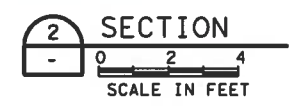
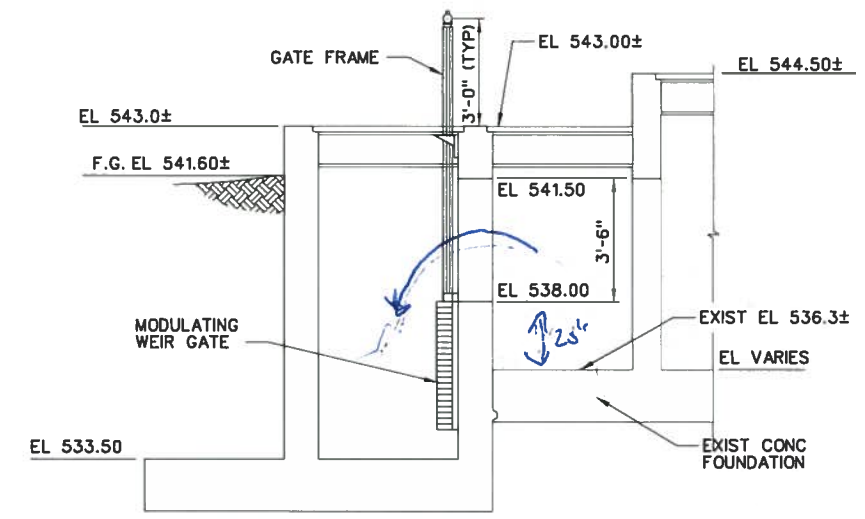


IDENTIFICATION LEGEND

- 1 LC-01-IC-GATE-01
- 2 LC-01-IC-GATE-02
- 3 LC-01-EQ-GATE-04
- 4 LC-01-EQ-GATE-01
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- 7 CONTRACTOR SHALL PROVIDE OPENINGS IN CHECKERED PLATING FOR NEW GATE FRAMES AND STEMS AS REQUIRED. CONTRACTOR SHALL ADD ADDITIONAL GRATING SUPPORTS AS REQUIRED TO FRAME OPENINGS.

**AS-BUILT/PLAN OF RECORD
SUBMITTED MARCH 2015**

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10-6501

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SAN ANTONIO, TEXAS 78258
TBE FIRM NO. : F-1741



Date: DECEMBER 2011
Design by: EJ
Drawn by: RM
Checked by: JM
Scale: AS SHOWN

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SAN ANTONIO
WATER SYSTEM

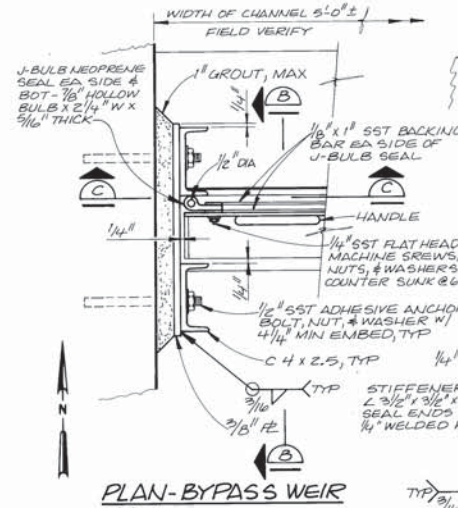
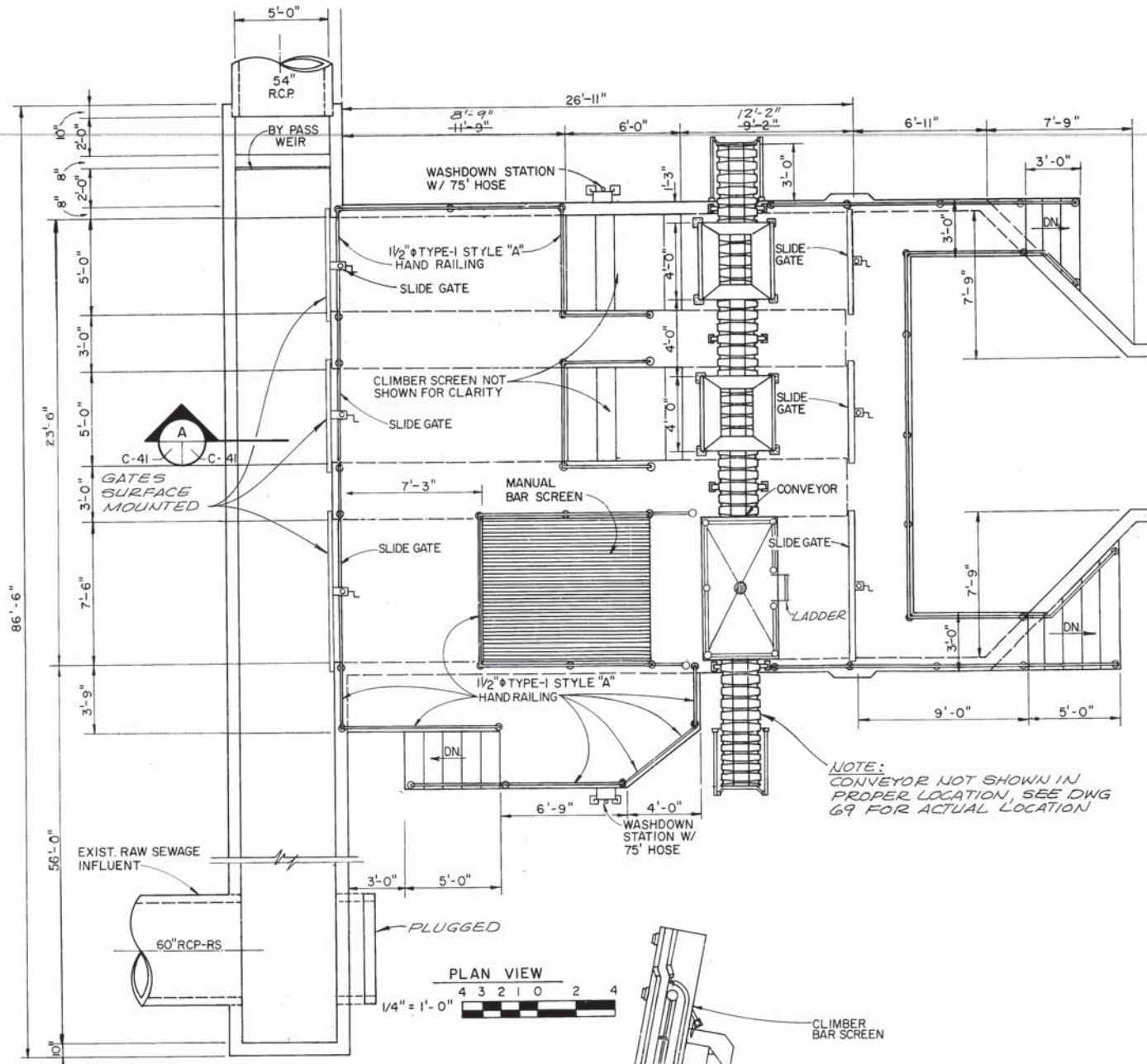
SAWS JOB NO. 10-6501
LEON CREEK WRC
INTERCONNECT TO THE SBSP
FEB DIVERSION STRUCTURE
PLAN AND SECTION

RECORD DRAWINGS
 Revisions Drawn by *H. HERRICK* Date *2/12/87*
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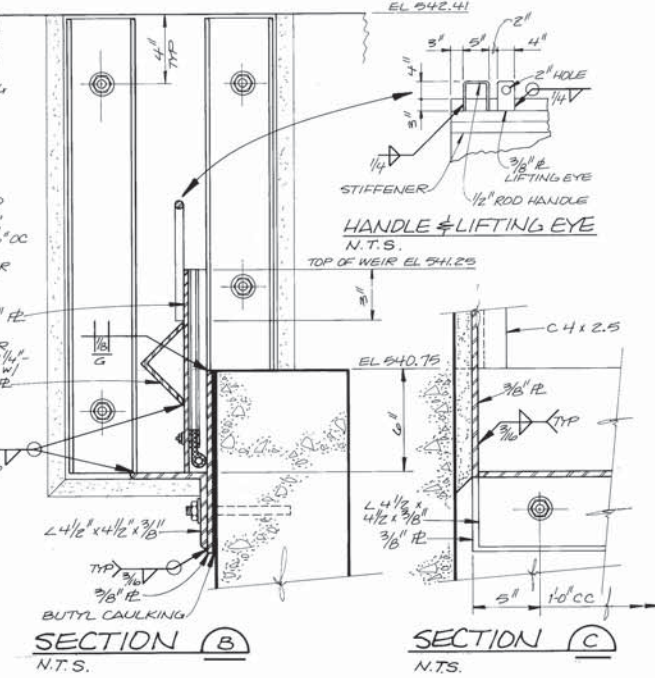
APP	Drawing No	65
NO.	DATE	REVISIONS
1	JUNE 1983	DESIGNED BY <i>R. J. JENSEN</i> DRAWN BY <i>C. JENSEN</i> CHECKED BY <i>R. J. JENSEN</i> DATE
2		BY <i>W. J. JENSEN</i> DATE
3		BY <i>G. A. PARR</i> DATE

GENERAL NOTES

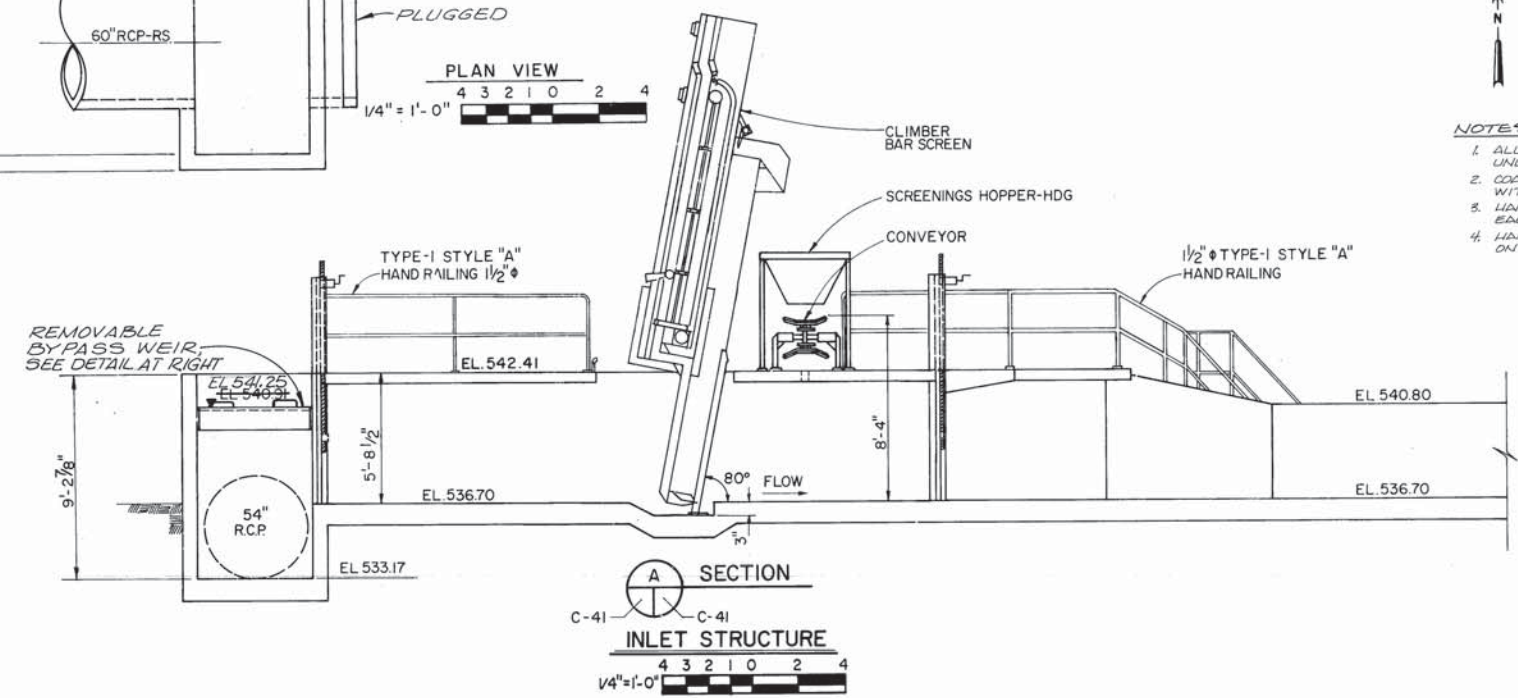
- FLOW DIVERSION SEQUENCE**
1. CONTRACTOR SHALL SUBMIT FOR ENGINEERS REVIEW HIS PROPOSED METHOD OF FLOW DIVERSION.
 2. SEE DRAWING NO. 64 FOR 78" R.C.P. STUBOUT AT INLET STRUCTURE.



- NOTES**
1. ALL MATERIALS ARE ALUMINUM UNLESS OTHERWISE IDENTIFIED.
 2. COAT ALL SURFACES IN DIRECT CONTACT WITH CONCRETE WITH ONE COAT BUTYLMASTIC.
 3. HANDLE AND LIFTING EYE TYPICAL EACH END OF WEIR PLATE.
 4. HANDLE AND LIFTING EYE SHALL BE ON SAME SIDE AS STIFFENER.



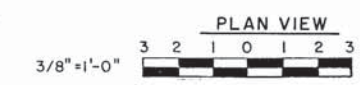
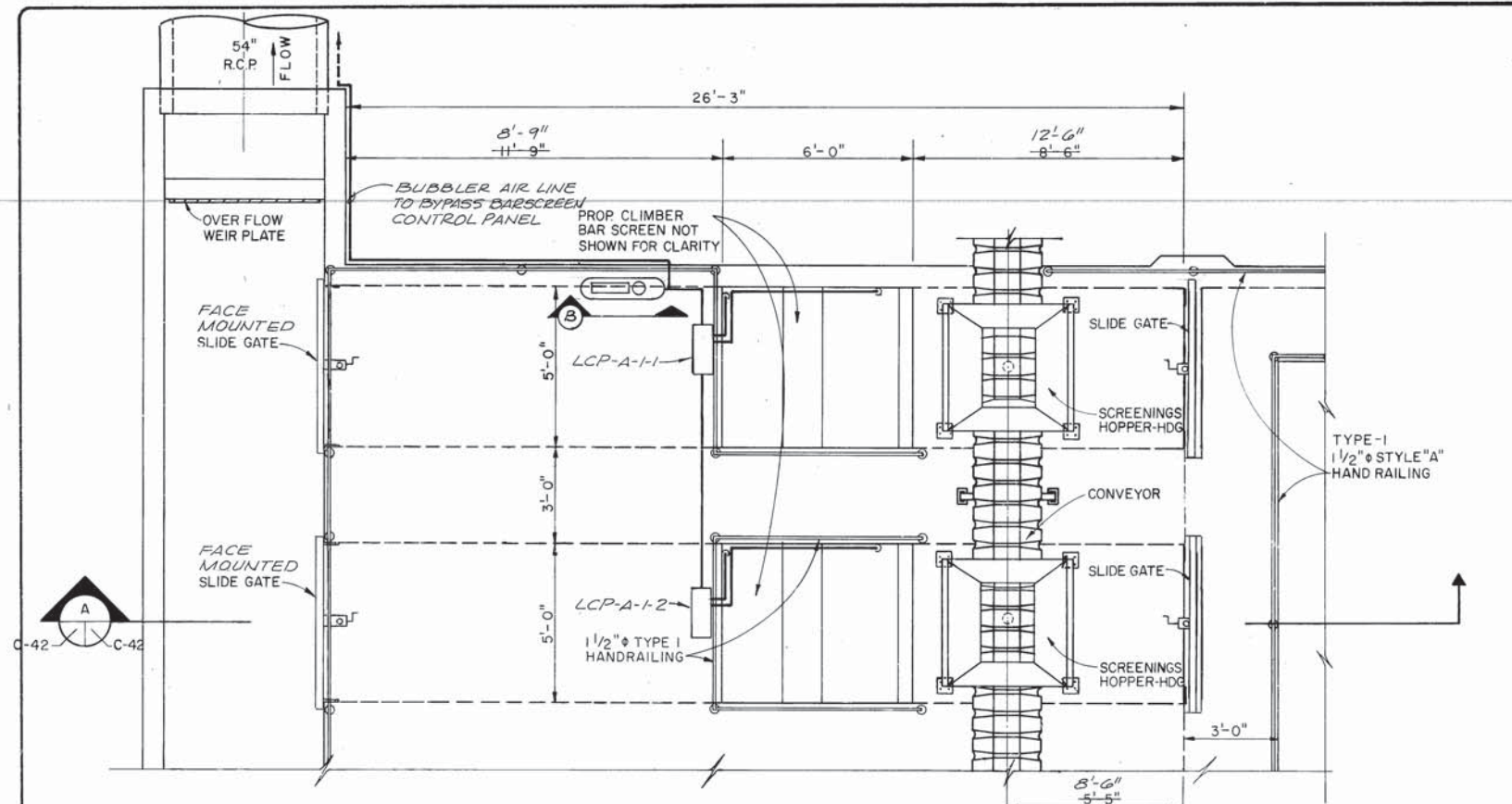
REMOVABLE BYPASS WEIR DETAIL



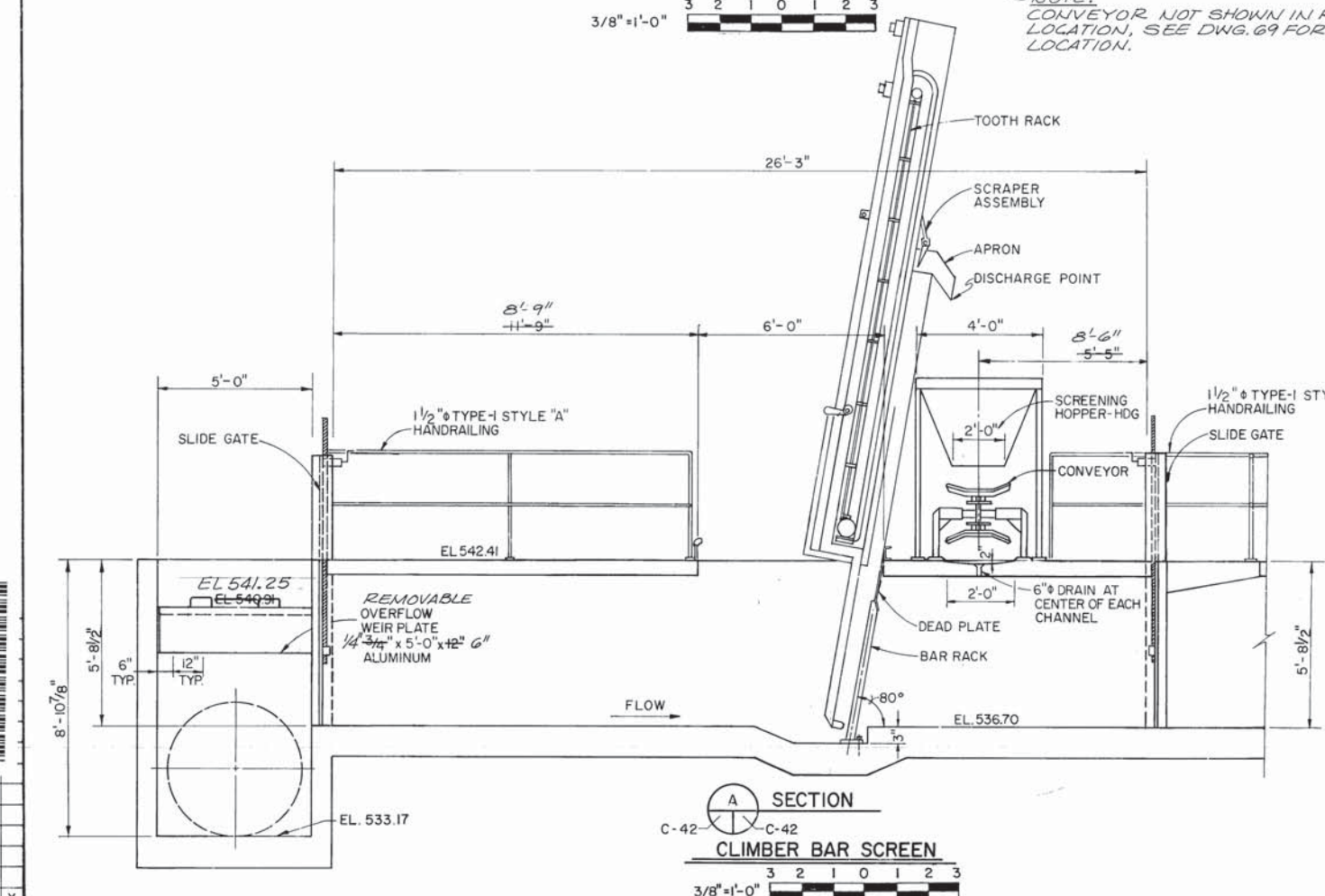
San Antonio
WASTEWATER FACILITIES IMPROVEMENTS

INLET STRUCTURE
IMPROVEMENTS AND EXPANSIONS TO LEON CREEK TREATMENT PLANT

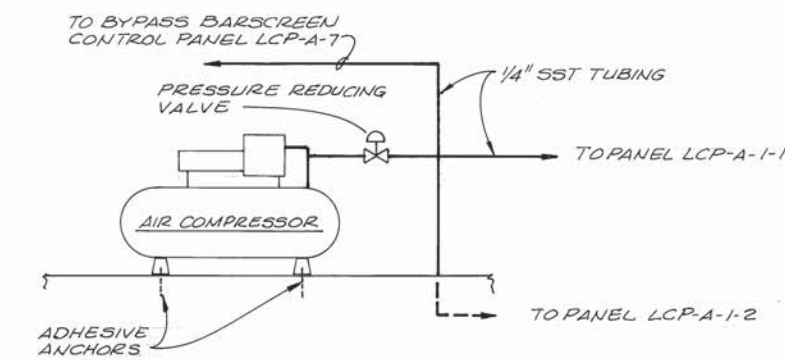
9110279
 LC 83-6501



NOTE: CONVEYOR NOT SHOWN IN PROPER LOCATION, SEE DWG. 69 FOR ACTUAL LOCATION.



SECTION A
CLIMBER BAR SCREEN
3/8" = 1'-0"



SECTION A
HEADWORKS BUBBLER SYSTEM

RECORD DRAWINGS
Revisions Drawn by *H. Herbeck* Date *2/19/87*

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App	Drawing No
	66
No	Date
1	JUNE, 1983
Designed by <i>[Signature]</i>	
Drawn by <i>[Signature]</i>	
Checked by <i>[Signature]</i>	
Scale: 3/8" = 1'-0"	



San Antonio
WASTEWATER FACILITIES IMPROVEMENTS

CLIMBER BAR SCREEN
IMPROVEMENTS AND EXPANSIONS TO LEON CREEK TREATMENT PLANT

Sheet	C-42
Total	99

LC 83-6501