



**SACRAMENTO AREA  
SEWER DISTRICT**  
SERVING YOU 24/7



**MARCH 2026**

CONTRACT DOCUMENTS FOR THE CONSTRUCTION OF  
**ECHOWATER RESOURCE RECOVERY FACILITY**

# **SECONDARY SEDIMENTATION TANKS 10 & 16 REHABILITATION PROJECT**

Version: 2026.1.0

**BID DOCUMENTS**

**PART B - DRAWINGS  
VOLUME 2 OF 2**



**RFB 8529**  
CONTRACT NUMBER

# SACRAMENTO AREA SEWER DISTRICT

SERVING YOU 24/7



MARCH 2026

BOARD OF  
DIRECTORS

CONTRACT DOCUMENTS FOR THE CONSTRUCTION OF  
ECHOWATER RESOURCE RECOVERY FACILITY

## SECONDARY SEDIMENTATION TANKS 10 & 16 REHABILITATION PROJECT BID DOCUMENTS






GENERAL, CIVIL AND STRUCTURAL

Version: 2026.1.0

### PART B - DRAWINGS

VOLUME 2 OF 2

#### APPROVALS

 SUBMITTED: GERARDO AGUIRRE, PE PROJECT ENGINEER	3/11/2026 DATE	 SUBMITTAL APPROVED: THOMAS ULLENSVANG PROJECT MANAGER	3/11/2026 DATE	
 SUBMITTAL APPROVED: WILLIAM YU, PE ENGINEERING MANAGER, ECHOWATER OPERATIONS DEPARTMENT	3/11/2026 DATE	 SUBMITTAL APPROVED: SONNY LUNDE, PE DIRECTOR, ECHOWATER OPERATIONS DEPARTMENT	3/11/2026 DATE	 APPROVED: CHRISTOPH DOBSON, PE DISTRICT ENGINEER



**RFB 8529**  
CONTRACT NUMBER

- R. Desmond
- R. Dickinson
- P. Hume
- L. Kaplan
- J. Karpinski-Costa
- P. Kennedy
- Q. Orozco
- P. Pluckebaum
- J. Raithel
- S. Robles
- R. Rodriguez
- D. Sander
- P. Serna
- D. Suen
- O. Villegas

## INDEX

SHEET #	DRAWING #	TITLE
03	INDEX	INDEX OF DRAWINGS AND GENERAL SYMBOLS
04	94G01	LOCATION AND VICINITY MAP
05	94G02	VEHICLE ACCESS AND TANK LOCATIONS
06	94G03	SURVEY MONUMENT DATA




## STRUCTURAL

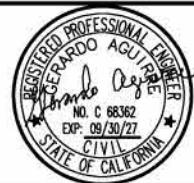
SHEET #	DRAWING #	TITLE
07	94S01	SST 10 STEEL COATINGS
08	94S02	SST 10 CONCRETE REPAIR AND AVERAGE MIL SAMPLES
09	94S03	SST 16 STEEL COATING BELOW SUPER STRUCTURE SCOPE
10	94S04	SST 16 SUPER STRUCTURE STEEL COATINGS
11	94S05	SST's 10 & 16 LAUNDER & SLUDGE COLLECTOR REPAIR CONSTRUCTION NOTES
12	94S06	SST's 10 & 16 EFFLUENT LAUNDER VERTICAL SUPPORT REPAIR
13	94S07	SST's 10 & 16 SLUDGE COLLECTOR PIPE SUPPORT REPAIR
14	94S08	SST's 10 & 16 EFFLUENT LAUNDER REPAIR

## MECHANICAL

SHEET #	DRAWING #	TITLE
15	94M01	SST 10 STANDARD PIPE HANGERS
16	94M02	SST's 10 & 16 SLIDE GATE & WEIR PLATE MODIFICATIONS
17	94M03	SST's 10 & 16 DEMOLITION AND DISTRIBUTION WELL SEAL REPAIRS
18	94M04	SST's 10 & 16 NEW EQUIPMENT

## GENERAL SYMBOLS

	DENOTES WORK TO BE DONE UNDER THIS PROJECT
	DENOTES EXISTING PIPING, EQUIPMENT, OR STRUCTURES
	EQUIPMENT TO BE REMOVED UNDER THIS CONTRACT



REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2"-SCALE ACCORDINGLY)

FILE \_\_\_\_\_  
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DESIGNED \_\_\_\_\_ T \_\_\_\_\_ U  
CHECKED \_\_\_\_\_

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SACRAMENTO AREA  
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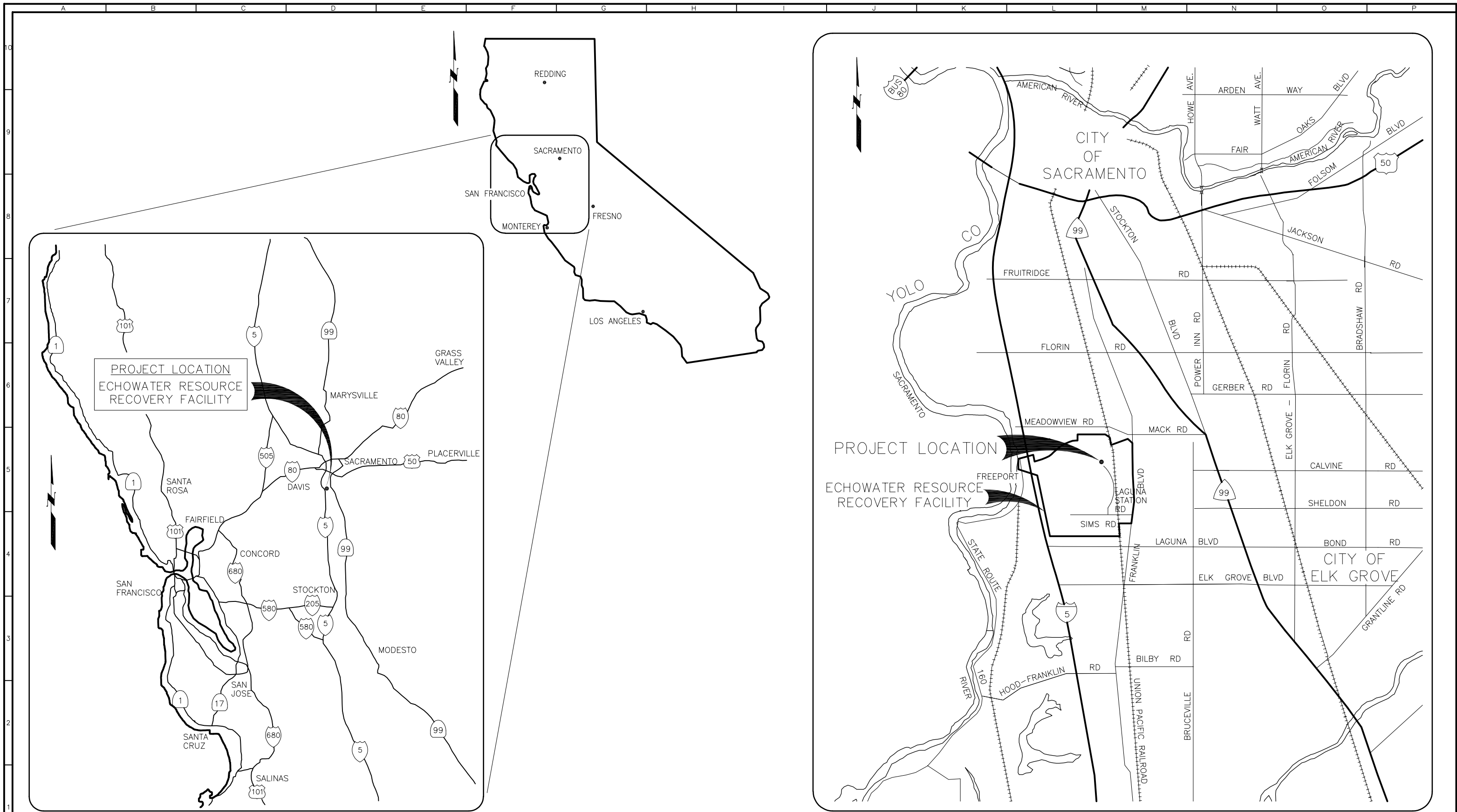
ECHOWATER RESOURCE  
RECOVERY FACILITY  
SECONDARY SEDIMENTATION TANKS  
10 & 16 REHABILITATION PROJECT

INDEX OF DRAWINGS AND  
GENERAL SYMBOLS

SCALE  
NO SCALE

DRAWING NUMBER  
INDEX

SHEET NUMBER  
3 OF 18



VICINITY MAP

LOCATION MAP



REVISIONS					
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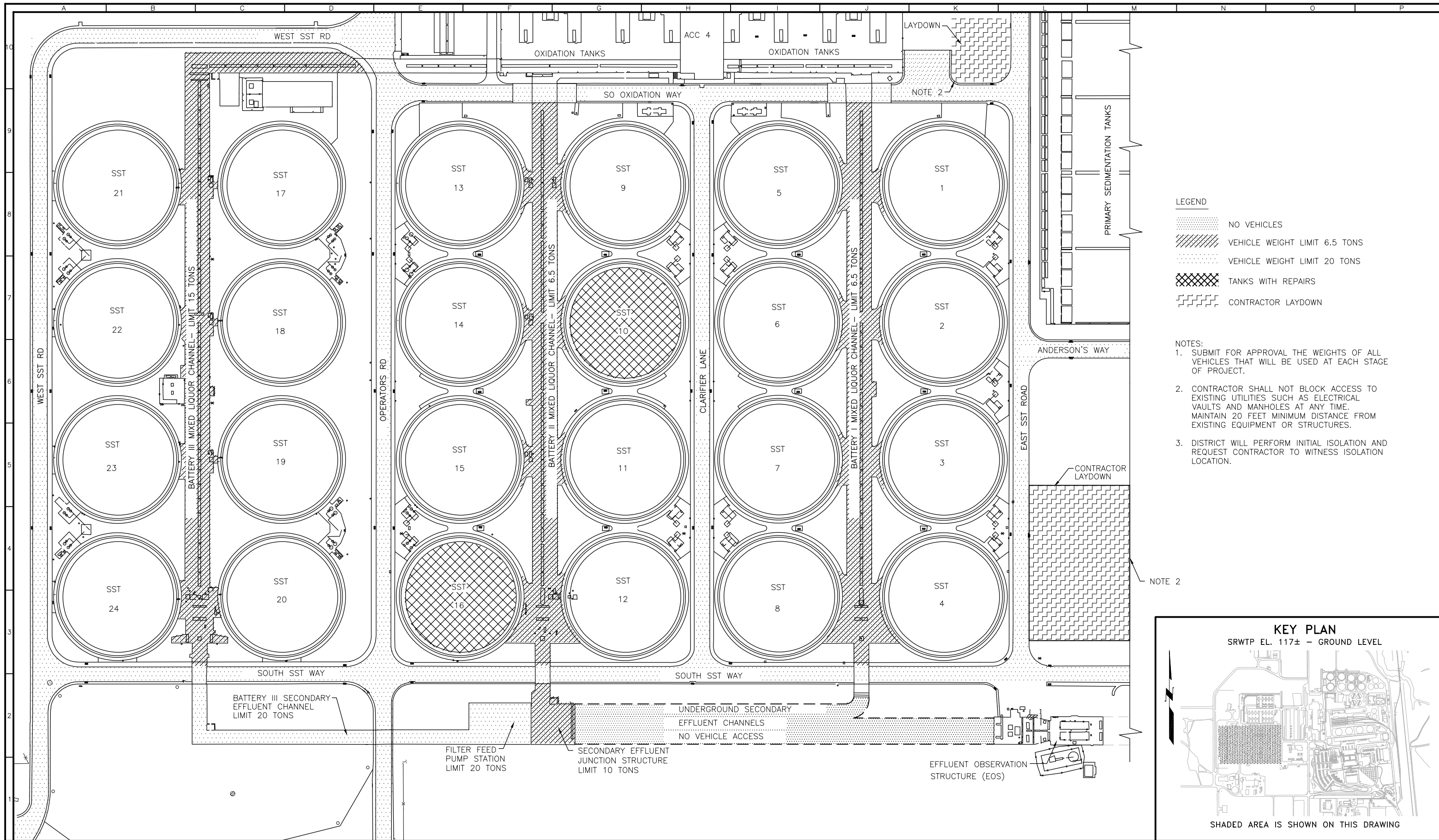
GENERAL

LOCATION AND VICINITY MAP

SCALE  
NONE

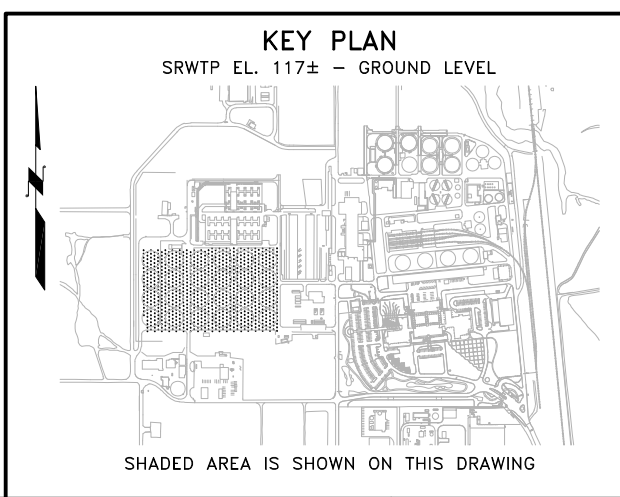
DRAWING NUMBER  
**94G01**

SHEET NUMBER  
4 OF 18



- LEGEND**
- NO VEHICLES
  - VEHICLE WEIGHT LIMIT 6.5 TONS
  - VEHICLE WEIGHT LIMIT 20 TONS
  - TANKS WITH REPAIRS
  - CONTRACTOR LAYDOWN

- NOTES:**
1. SUBMIT FOR APPROVAL THE WEIGHTS OF ALL VEHICLES THAT WILL BE USED AT EACH STAGE OF PROJECT.
  2. CONTRACTOR SHALL NOT BLOCK ACCESS TO EXISTING UTILITIES SUCH AS ELECTRICAL VAULTS AND MANHOLES AT ANY TIME. MAINTAIN 20 FEET MINIMUM DISTANCE FROM EXISTING EQUIPMENT OR STRUCTURES.
  3. DISTRICT WILL PERFORM INITIAL ISOLATION AND REQUEST CONTRACTOR TO WITNESS ISOLATION LOCATION.



REVISIONS				
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ECHOWATER RESOURCE RECOVERY FACILITY  
SECONDARY SEDIMENTATION TANKS 10 & 16 REHABILITATION PROJECT

GENERAL

VEHICLE ACCESS AND TANK LOCATIONS

SCALE NONE

DRAWING NUMBER **94G02**

SHEET NUMBER 5 OF 18



SURVEY GRID MONUMENT DATA			
NUMBER	DESCRIPTION	COORDINATES	ELEVATION
2	SRWTP2	E 2,152,198.1560 N 283,795.6640	118.006
8	SRWTP8	E 2,153,558.6100 N 286,237.8450	120.785
9	SRWTP9	E 2,153,594.1320 N 285,625.7560	116.114
10	MONUMENT L-1	E 2,152,599.9280 N 287,025.3300	116.339
11	SIMS ROAD	E 2,151,701.7890 N 285,066.6580	116.749
12	MONUMENT 3	E 2,152,599.9170 N 285,050.9380	115.061
13	MONUMENT 4 @ RE TRAILER	E 2,153,799.9850 N 283,999.9820	116.130
14	MONUMENT D-5(DESTROYED)	E 2,153,249.5420 N 284,818.7560	113.728
15	SEC COR MONUMENT 6	E 2,153,849.4180 N 286,648.2240	111.910
20	MONUMENT 3F	E 2,153,593.4273 N 286,990.5363	116.253
21	PT GREG (REPL 7)	E 2,152,562.8710 N 285,998.3540	117.539
23	SRWTP10	E 2150745.4282 N 281,398.6040	117.427
24	SRWTP11	E 2,153,242.0683 N 281,509.5693	117.217
25	SRWTP12	E 2,153,983.7623 N 281,303.6092	115.809
26	SRWTP13	E 2,155,634.1248 N 281,333.2388	123.60
27	SRWTP14	E 2,149,519.5031 N 279,892.4928	117.011
28	SRWTP15	E 2,150,901.9228 N 279,901.4206	117.050
29	SRWTP16	E 2,149,414.5858 N 283,044.0587	117.315
30	SRWTP17	E 2,150,813.0067 N 283,002.7927	116.922
32	SRWTP19	E 2,155,261.4072 N 283,025.6317	120.542
35	SRWTP24	E 2,153,801.2965 N 286,867.7101	120.518
36	SRWTP25	E 2,155,040.8816 N 284,371.4608	115.722

**LEGEND:**

- ⊕ NAIL AND SHINER
- ⊙ BRASS DISC

**GENERAL NOTES:**

- MONUMENT NUMBERS 3, L-1, 3A, 3B, 3C, 3E, 3F AND 7 SHALL NOT BE USED.
- ESTABLISH ADDITIONAL MONUMENTS, AS NEEDED FOR CONTROL OF CONSTRUCTION.
- ELEVATIONS SHOWN REPRESENT MEAN SEA LEVEL PLUS 100.00.
- NOTIFY THE RESIDENT ENGINEER 48 HOURS IN ADVANCE OF REMOVING OR DESTROYING ANY SURVEY MONUMENT FOR THE PURPOSE OF REFERENCING MONUMENTS OR FOR RE-ESTABLISHING A POINT AFTER WORK IS COMPLETED.
- THIS DRAWING AND ALL OTHER SRWTP DRAWINGS USE THE NAD27 COORDINATE SYSTEM. IF YOU ARE USING NAD83 OR ANY OTHER COORDINATE SYSTEM, PLEASE CONVERT AS NEEDED.



REVISIONS					
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SECONDARY SEDIMENTATION TANKS  
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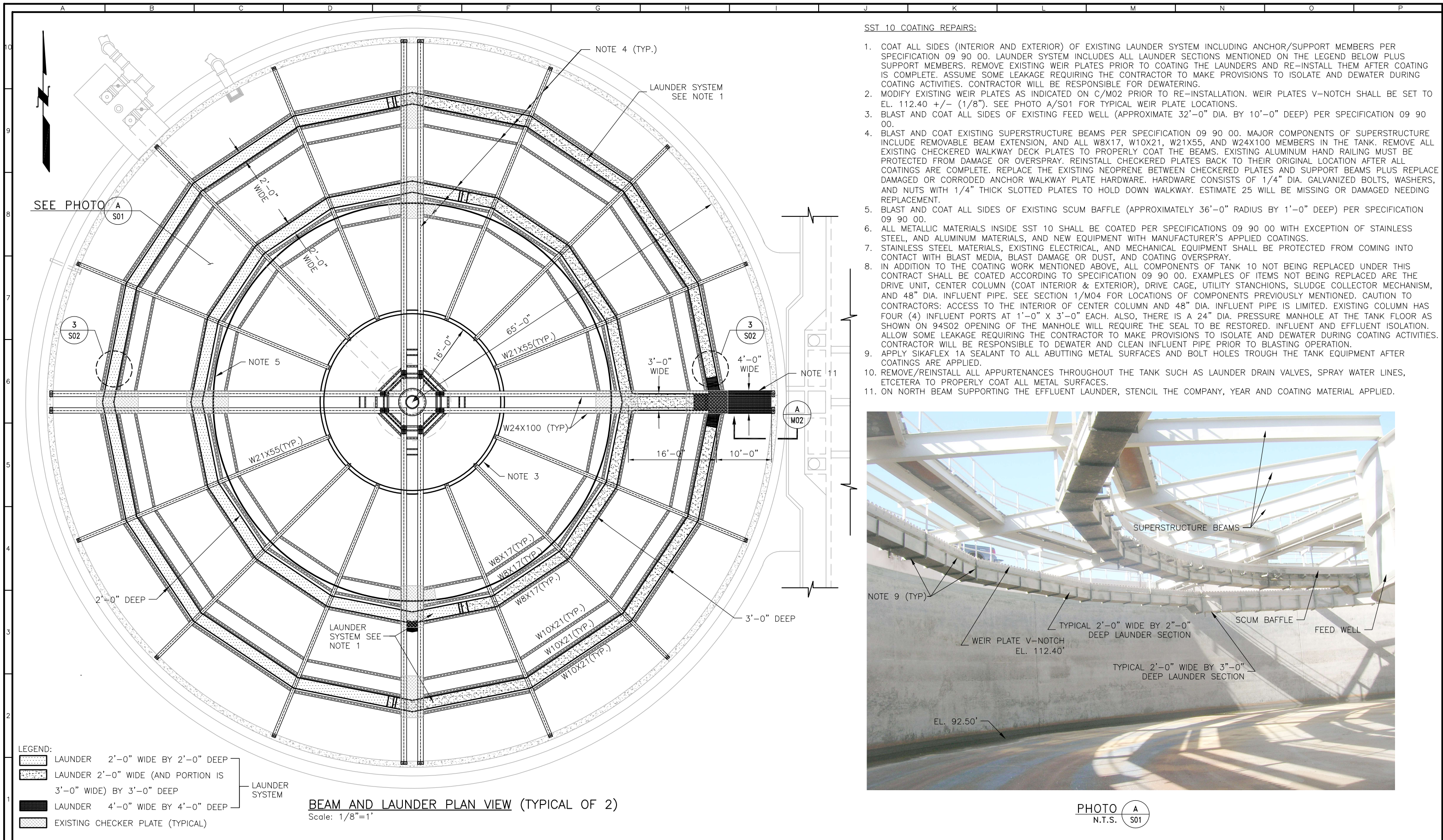
GENERAL

SURVEY MONUMENT DATA

SCALE  
1"=500'

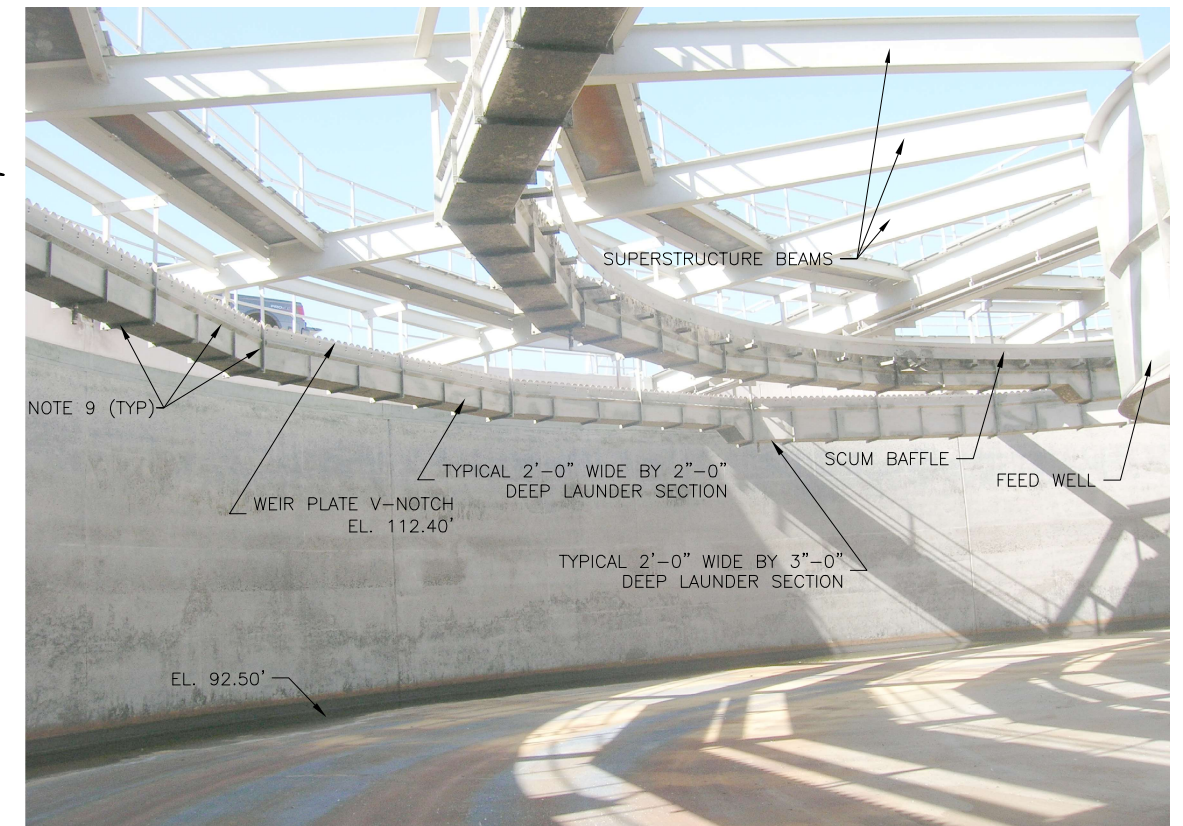
DRAWING NUMBER  
**94G03**

SHEET NUMBER  
6 OF 18



**SST 10 COATING REPAIRS:**

1. COAT ALL SIDES (INTERIOR AND EXTERIOR) OF EXISTING LAUNDR SYSTEM INCLUDING ANCHOR/SUPPORT MEMBERS PER SPECIFICATION 09 90 00. LAUNDR SYSTEM INCLUDES ALL LAUNDR SECTIONS MENTIONED ON THE LEGEND BELOW PLUS SUPPORT MEMBERS. REMOVE EXISTING WEIR PLATES PRIOR TO COATING THE LAUNDERS AND RE-INSTALL THEM AFTER COATING IS COMPLETE. ASSUME SOME LEAKAGE REQUIRING THE CONTRACTOR TO MAKE PROVISIONS TO ISOLATE AND DEWATER DURING COATING ACTIVITIES. CONTRACTOR WILL BE RESPONSIBLE FOR DEWATERING.
2. MODIFY EXISTING WEIR PLATES AS INDICATED ON C/M02 PRIOR TO RE-INSTALLATION. WEIR PLATES V-NOTCH SHALL BE SET TO EL. 112.40 +/- (1/8"). SEE PHOTO A/S01 FOR TYPICAL WEIR PLATE LOCATIONS.
3. BLAST AND COAT ALL SIDES OF EXISTING FEED WELL (APPROXIMATE 32'-0" DIA. BY 10'-0" DEEP) PER SPECIFICATION 09 90 00.
4. BLAST AND COAT EXISTING SUPERSTRUCTURE BEAMS PER SPECIFICATION 09 90 00. MAJOR COMPONENTS OF SUPERSTRUCTURE INCLUDE REMOVABLE BEAM EXTENSION, AND ALL W8X17, W10X21, W21X55, AND W24X100 MEMBERS IN THE TANK. REMOVE ALL EXISTING CHECKERED WALKWAY DECK PLATES TO PROPERLY COAT THE BEAMS. EXISTING ALUMINUM HAND RAILING MUST BE PROTECTED FROM DAMAGE OR OVERSPRAY. REINSTALL CHECKERED PLATES BACK TO THEIR ORIGINAL LOCATION AFTER ALL COATINGS ARE COMPLETE. REPLACE THE EXISTING NEOPRENE BETWEEN CHECKERED PLATES AND SUPPORT BEAMS PLUS REPLACE DAMAGED OR CORRODED ANCHOR WALKWAY PLATE HARDWARE. HARDWARE CONSISTS OF 1/4" DIA. GALVANIZED BOLTS, WASHERS, AND NUTS WITH 1/4" THICK SLOTTED PLATES TO HOLD DOWN WALKWAY. ESTIMATE 25 WILL BE MISSING OR DAMAGED NEEDING REPLACEMENT.
5. BLAST AND COAT ALL SIDES OF EXISTING SCUM BAFFLE (APPROXIMATELY 36'-0" RADIUS BY 1'-0" DEEP) PER SPECIFICATION 09 90 00.
6. ALL METALLIC MATERIALS INSIDE SST 10 SHALL BE COATED PER SPECIFICATIONS 09 90 00 WITH EXCEPTION OF STAINLESS STEEL, AND ALUMINUM MATERIALS, AND NEW EQUIPMENT WITH MANUFACTURER'S APPLIED COATINGS.
7. STAINLESS STEEL MATERIALS, EXISTING ELECTRICAL, AND MECHANICAL EQUIPMENT SHALL BE PROTECTED FROM COMING INTO CONTACT WITH BLAST MEDIA, BLAST DAMAGE OR DUST, AND COATING OVERSPRAY.
8. IN ADDITION TO THE COATING WORK MENTIONED ABOVE, ALL COMPONENTS OF TANK 10 NOT BEING REPLACED UNDER THIS CONTRACT SHALL BE COATED ACCORDING TO SPECIFICATION 09 90 00. EXAMPLES OF ITEMS NOT BEING REPLACED ARE THE DRIVE UNIT, CENTER COLUMN (COAT INTERIOR & EXTERIOR), DRIVE CAGE, UTILITY STANCHIONS, SLUDGE COLLECTOR MECHANISM, AND 48" DIA. INFLUENT PIPE. SEE SECTION 1/M04 FOR LOCATIONS OF COMPONENTS PREVIOUSLY MENTIONED. CAUTION TO CONTRACTORS: ACCESS TO THE INTERIOR OF CENTER COLUMN AND 48" DIA. INFLUENT PIPE IS LIMITED. EXISTING COLUMN HAS FOUR (4) INFLUENT PORTS AT 1'-0" X 3'-0" EACH. ALSO, THERE IS A 24" DIA. PRESSURE MANHOLE AT THE TANK FLOOR AS SHOWN ON 94S02 OPENING OF THE MANHOLE WILL REQUIRE THE SEAL TO BE RESTORED. INFLUENT AND EFFLUENT ISOLATION. ALLOW SOME LEAKAGE REQUIRING THE CONTRACTOR TO MAKE PROVISIONS TO ISOLATE AND DEWATER DURING COATING ACTIVITIES. CONTRACTOR WILL BE RESPONSIBLE TO DEWATER AND CLEAN INFLUENT PIPE PRIOR TO BLASTING OPERATION.
9. APPLY SIKAFLEX 1A SEALANT TO ALL ABUTTING METAL SURFACES AND BOLT HOLES THROUGH THE TANK EQUIPMENT AFTER COATINGS ARE APPLIED.
10. REMOVE/REINSTALL ALL APPURTENANCES THROUGHOUT THE TANK SUCH AS LAUNDR DRAIN VALVES, SPRAY WATER LINES, ETCETERA TO PROPERLY COAT ALL METAL SURFACES.
11. ON NORTH BEAM SUPPORTING THE EFFLUENT LAUNDR, STENCIL THE COMPANY, YEAR AND COATING MATERIAL APPLIED.



**PHOTO A S01**  
N.T.S.



REVISIONS					
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**SACRAMENTO AREA SEWER DISTRICT**  
OF SACRAMENTO COUNTY, CALIFORNIA

**ECHOWATER RESOURCE RECOVERY FACILITY**  
SECONDARY SEDIMENTATION TANKS 10 & 16 REHABILITATION PROJECT

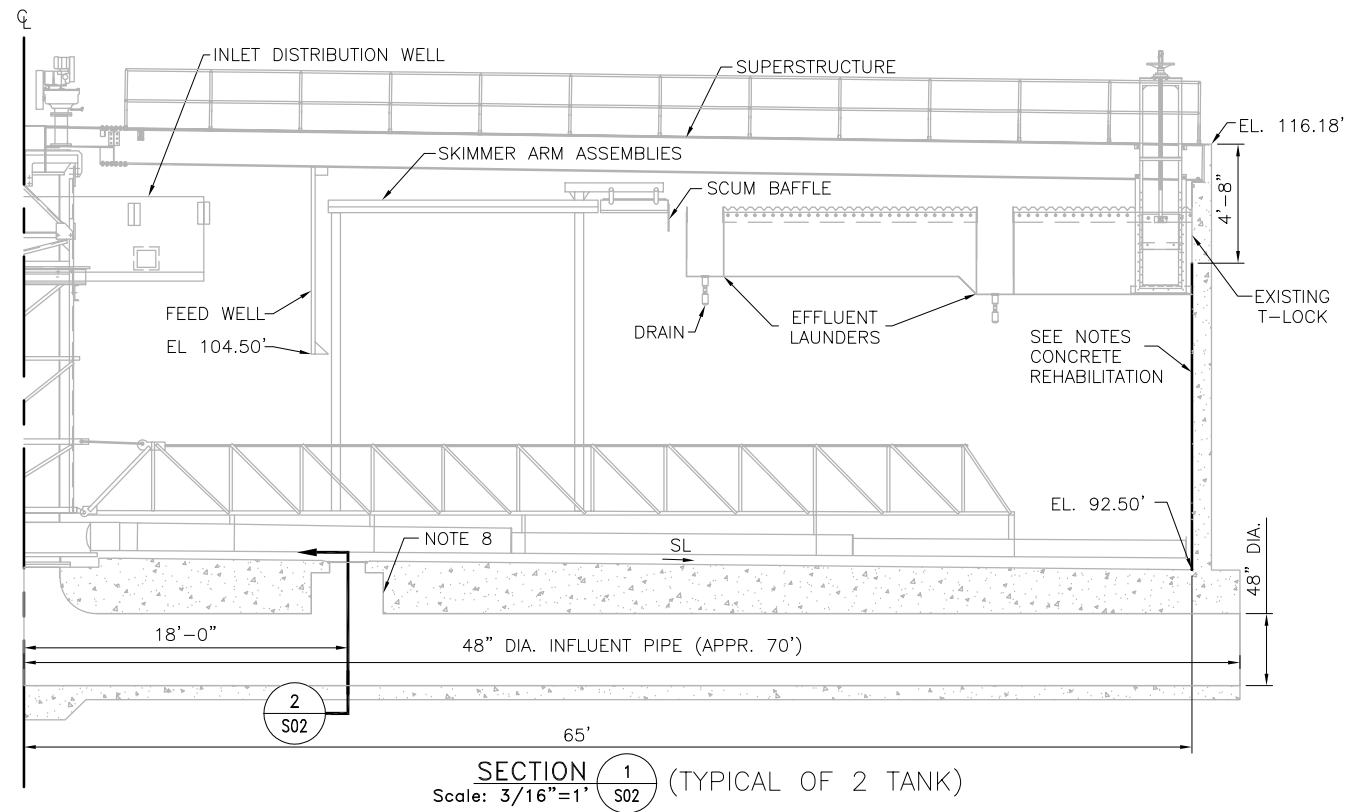
STRUCTURAL

**SST 10 STEEL COATINGS**

SCALE AS NOTED

DRAWING NUMBER **94S01**

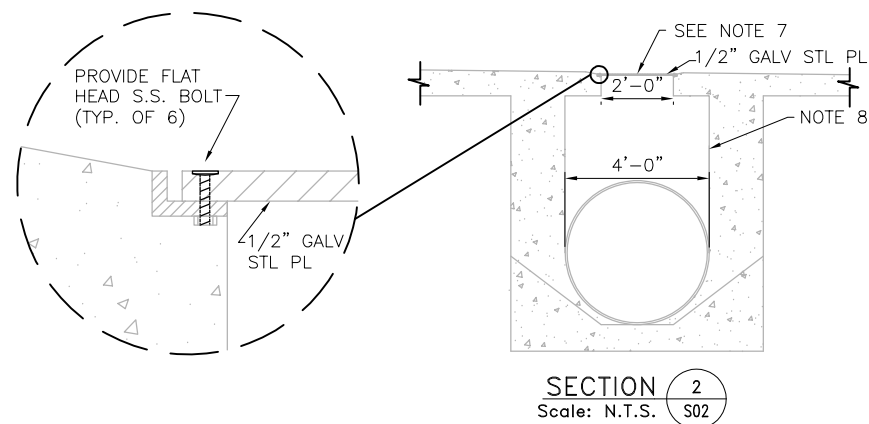
SHEET NUMBER 7 OF 18



SECTION 1 (TYPICAL OF 2 TANK)  
Scale: 3/16"=1' S02

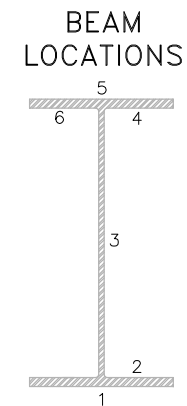
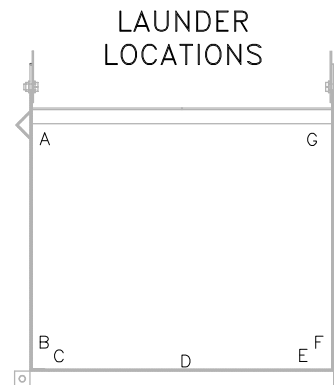
SST 10 CONCRETE REHABILITATION:

1. LIGHT SAND BLAST CONCRETE WALLS TO REMOVE UNSOUND CONCRETE PRIOR TO THE CONCRETE REHABILITATION PER SPECIFICATION 03 01 26.76.
2. REHABILITATE BLASTED CONCRETE WALLS PER SPECIFICATION 03 01 26.76.
3. SEAL COAT VERTICAL CONCRETE WALLS OF SST 10 PER SPECIFICATION 09 90 00.
4. CONCRETE BLAST PREPARATION, REHABILITATION, AND SEAL COAT IS FROM THE BOTTOM OF THE EXISTING T-LOCK DOWN TO THE TANK FLOOR AND AROUND THE TANK CIRCUMFERENCE (APPROXIMATELY 19FT HIGH x 410FT).
5. CONTRACTOR SHALL PROPERLY SEAL EFFLUENT SLIDE GATE AND INFLUENT BUTTERFLY VALVE AT EACH TANK TO PREVENT WATER INFILTRATION TO SST DURING CONSTRUCTION.
6. CONCRETE COATING IS BELOW-GRADE APPLICATION AND EXISTING VERTICAL EXPANSION JOINTS WILL NOT REQUIRE PATCHING.
7. CONTRACTOR SHALL RE-SEAL MANHOLE AND LIFTING HOLES AFTER CONSTRUCTION.
8. LIGHT SAND BLAST CONCRETE MH'S TO REMOVE UNSOUND CONCRETE PRIOR TO THE CONCRETE REHABILITATION.



SECTION 2  
Scale: N.T.S. S02

EX. OF BATTERY II READINGS (MIL)	LAUNDER LOCATIONS							BEAM LOCATIONS						
	WEST													
	49.1	31.0	37.6	30.1	10.7	29.3	8.9	2.2	5.6	4.3	4.9	3.9	6.4	
	8.7	45.2	32.1	43.7	16.3	51.8	35.6	4.7	5.9	4.2	6.9	4.8	5.3	
	33.1	19.0	16.8	20.7	42.6	22.4	33.2	9.3	15.2	3.9	6.7	7.1	6.1	
	EAST	32.4	18.3	23.7	30.4	26.7	46.1	48.2	4.5	10.4	5.4	8.2	5.5	4.3
		21.2	19.8	20.7	36.3	25.4	25.9	38.0	1.7	6.7	7.7	6.1	4.0	2.3



EXISTING MIL READING SAMPLES 3 S06

NOTES:

1. THE ABOVE COATING THICKNESS SAMPLE READINGS WERE TAKEN FROM OTHER TANKS TO SHOW THE CONTRACTORS POSSIBLE VARIATIONS BETWEEN AREAS. CONTRACTORS ARE RESPONSIBLE TO ACCOUNT FOR THESE VARIATIONS AND PERFORM FIELD MEASUREMENTS DURING SITE VISITS IF NEEDED.



REVISIONS					
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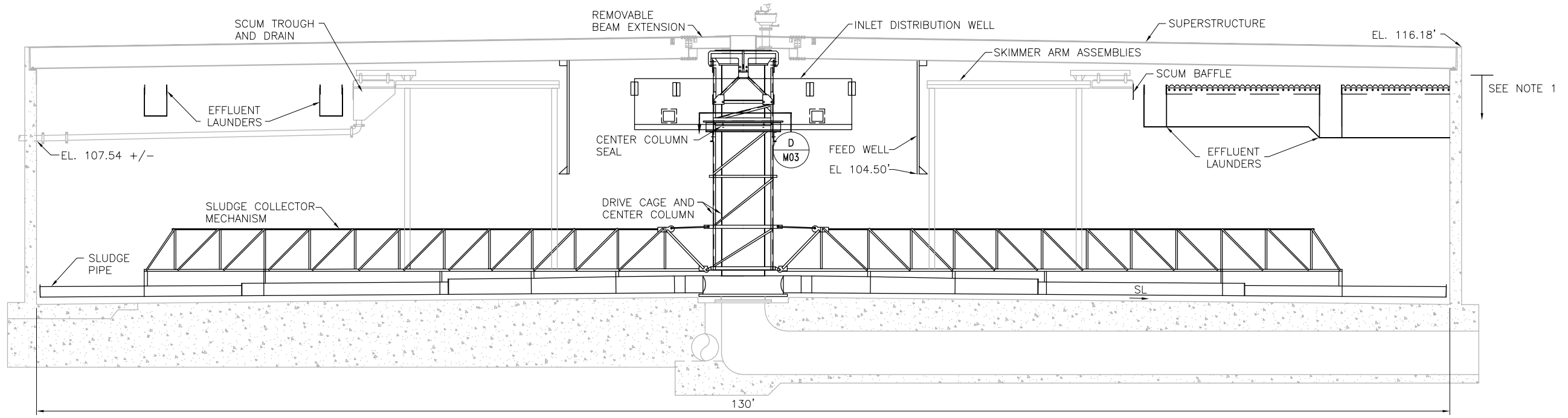
STRUCTURAL

SST 10 CONCRETE REPAIR AND AVERAGE MIL SAMPLES

SCALE AS NOTED

DRAWING NUMBER 94S02

SHEET NUMBER 8 OF 18



SECTION 1  
Scale: 3/16"=1' S03



PHOTO A  
N.T.S. S03



PHOTO B  
N.T.S. S03

SST 16 BELOW SUPER STRUCTURE COATING NOTES:

1. BLAST AND COAT EVERYTHING BELOW THE SUPER STRUCTURE BEAMS. THIS INCLUDES, THE SLUDGE COLLECTOR MECHANISM AND SLUDGE PIPE, FEED WELL, INLET DISTRIBUTION WELL, DRIVE CAGE, CENTER COLUMN, SCUM BAFFLE, EFFLUENT LAUNDERS AND SUPPORTS.
2. PROTECT ALL WALKWAY PLATES FROM BLAST MEDIA AND OVERSPRAY. KEEP PLATES CONNECTED TO SUPER STRUCTURE.
3. COAT ALL SIDES (INTERIOR AND EXTERIOR) OF EXISTING LAUNDER SYSTEM INCLUDING ANCHOR/SUPPORT MEMBERS PER SPECIFICATION 09 90 00. LAUNDER SYSTEM INCLUDES ALL LAUNDER SECTIONS MENTIONED ON THE LEGEND BELOW PLUS SUPPORT MEMBERS. REMOVE EXISTING WEIR PLATES PRIOR TO COATING THE LAUNDERS AND RE-INSTALL THEM AFTER COATING IS COMPLETE.
4. ALL STAINLESS STEEL MATERIAL, EXISTING ELECTRICAL, AND MECHANICAL EQUIPMENT SHALL BE PROTECTED FROM COMING INTO CONTACT WITH BLAST MEDIA, BLAST DAMAGE OR DUST, AND COATING OVERSPRAY.
5. REMOVE AND REPLACE ALL NEOPRENE, BOLTS AND WASHER FOR V-NOTCH WEIRS AND SQUEEGEES AS INDICATED ON C/94M02 AND B/94M04. WEIR PLATES V-NOTCH SHALL BE SET TO EL. 112.40 +/- (1/8").
6. REMOVE AND REINSTALL SEALS AT CENTER COLUMN AS SHOWN ON DRAWING 94M03.
7. REMOVE ALL APPURTENANCES THROUGHOUT THE TANK SUCH AS LAUNDER DRAIN VALVES, SPRAY WATER LINES, CATHODIC ANODES, ETCETERA TO PROPERLY COAT ALL METAL SURFACES AND PROTECT APPURTENANCES. DO NOT REMOVE WALKWAYS. RE-INSTALL REMOVED APPURTENANCES AFTER COATING.
8. ON NORTH BEAM SUPPORTING THE EFFLUENT LAUNDER, STENCIL THE COMPANY, YEAR AND COATING MATERIAL APPLIED. USING 4" HIGH LETTERING.
9. APPLY SIKAFLEX 1A SEALANT TO ALL ABUTTING METAL SURFACES AND BOLT HOLES THROUGH THE TANK EQUIPMENT WHERE THE NEW COATING IS APPLIED.
10. ONCE THE PROJECT IS COMPLETED, THE CONTRACTOR ALONG WITH AN INSPECTOR AND A DISTRICT REPRESENTATIVE WILL RUN THE SLUDGE ARM IN TWO FULL ROTATIONS WHILE DRY TO MAKE SURE THE ARM RUNS CORRECTLY. ONCE ACCEPTED, THE TANK WILL BE FILLED AND PUT INTO SERVICE SO THAT THE WEIRS ARE ADJUSTED.



REVISIONS					
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FILE \_\_\_\_\_  
DRAWN T.U.  
DESIGNED T.U.  
CHECKED \_\_\_\_\_

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ECHOWATER RESOURCE RECOVERY FACILITY  
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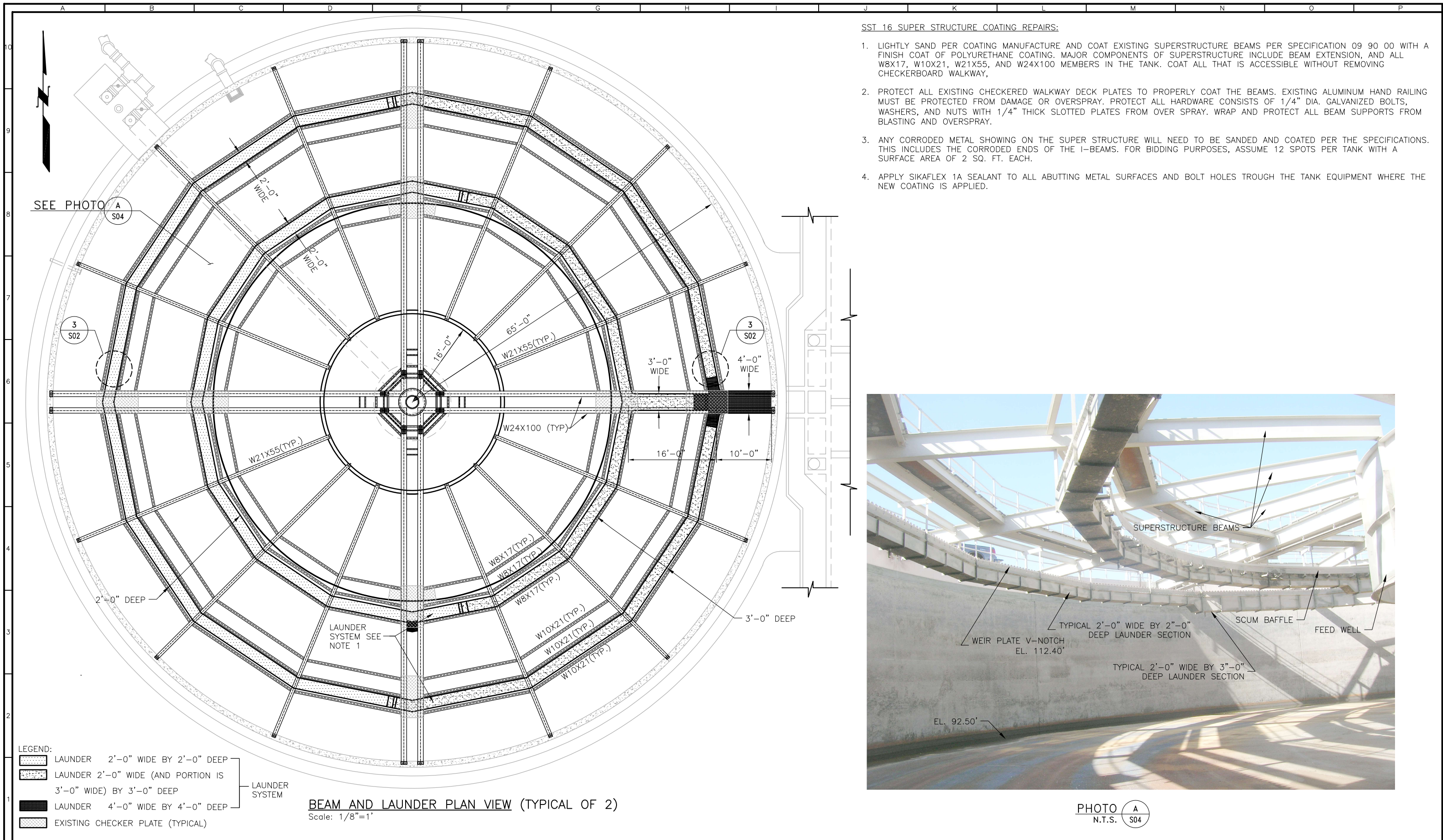
GENERAL

SST 16 STEEL COATING BELOW SUPER STRUCTURE SCOPE

SCALE NONE

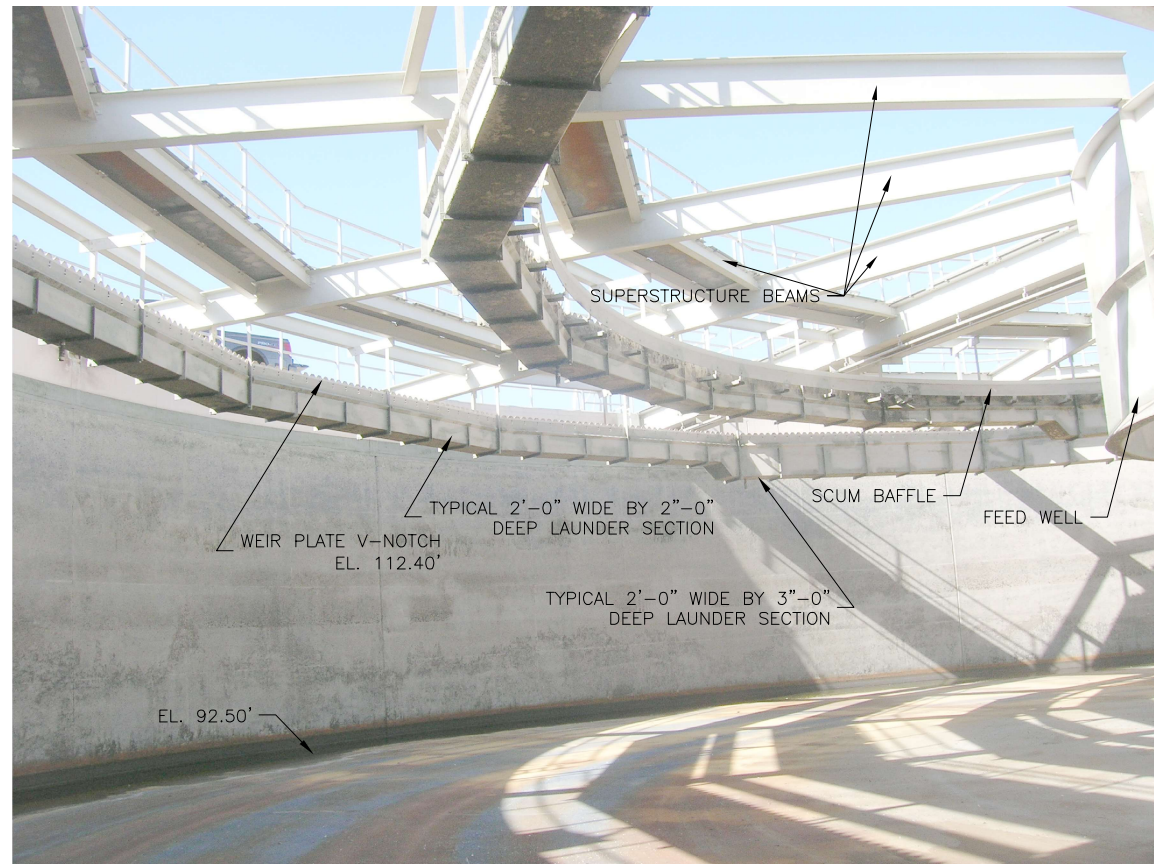
DRAWING NUMBER 94S03

SHEET NUMBER 9 OF 18



**SST 16 SUPER STRUCTURE COATING REPAIRS:**

1. LIGHTLY SAND PER COATING MANUFACTURE AND COAT EXISTING SUPERSTRUCTURE BEAMS PER SPECIFICATION 09 90 00 WITH A FINISH COAT OF POLYURETHANE COATING. MAJOR COMPONENTS OF SUPERSTRUCTURE INCLUDE BEAM EXTENSION, AND ALL W8X17, W10X21, W21X55, AND W24X100 MEMBERS IN THE TANK. COAT ALL THAT IS ACCESSIBLE WITHOUT REMOVING CHECKERBOARD WALKWAY.
2. PROTECT ALL EXISTING CHECKERED WALKWAY DECK PLATES TO PROPERLY COAT THE BEAMS. EXISTING ALUMINUM HAND RAILING MUST BE PROTECTED FROM DAMAGE OR OVERSPRAY. PROTECT ALL HARDWARE CONSISTS OF 1/4" DIA. GALVANIZED BOLTS, WASHERS, AND NUTS WITH 1/4" THICK SLOTTED PLATES FROM OVER SPRAY. WRAP AND PROTECT ALL BEAM SUPPORTS FROM BLASTING AND OVERSPRAY.
3. ANY CORRODED METAL SHOWING ON THE SUPER STRUCTURE WILL NEED TO BE SANDED AND COATED PER THE SPECIFICATIONS. THIS INCLUDES THE CORRODED ENDS OF THE I-BEAMS. FOR BIDDING PURPOSES, ASSUME 12 SPOTS PER TANK WITH A SURFACE AREA OF 2 SQ. FT. EACH.
4. APPLY SIKAFLEX 1A SEALANT TO ALL ABUTTING METAL SURFACES AND BOLT HOLES TROUGH THE TANK EQUIPMENT WHERE THE NEW COATING IS APPLIED.



**LEGEND:**

- LAUNDER 2'-0" WIDE BY 2'-0" DEEP
- LAUNDER 2'-0" WIDE (AND PORTION IS 3'-0" WIDE) BY 3'-0" DEEP
- LAUNDER 4'-0" WIDE BY 4'-0" DEEP
- EXISTING CHECKER PLATE (TYPICAL)

LAUNDER SYSTEM

**BEAM AND LAUNDER PLAN VIEW (TYPICAL OF 2)**  
Scale: 1/8"=1'

**PHOTO A S04**  
N.T.S.



REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE \_\_\_\_\_  
DRAWN TU  
DESIGNED TU  
CHECKED \_\_\_\_\_

**RFB #8529**  
CONTRACT NUMBER

SACRAMENTO AREA SEWER DISTRICT OF SACRAMENTO COUNTY, CALIFORNIA

ECHOWATER RESOURCE RECOVERY FACILITY  
SECONDARY SEDIMENTATION TANKS 10 & 16 REHABILITATION PROJECT

STRUCTURAL

SST 16 SUPER STRUCTURE STEEL COATINGS

SCALE AS NOTED

DRAWING NUMBER **94S04**

SHEET NUMBER 10 OF 18



PHOTO A  
N.T.S. S05

LAUNDER AND SLUDGE COLLECTOR REPAIRS

GENERAL NOTES:

1. THE LAUNDER SUPPORTS ON THESE DWGS ARE FOR REFERENCE ONLY.
2. ALL METAL REPAIRS SHALL USE STAINLESS STEEL CONFORMING TO ASTM A 276, GRADE A, TYPE 304L. METAL PLATES SHALL BE STAINLESS STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A 240, TYPE 304L.
3. TIG WELDING OF STRUCTURAL STAINLESS STEEL SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.6. WELDING OF STRUCTURAL STEEL TO STAINLESS STEEL. WELDING SHALL BE DONE BY WELDERS WHO HAVE BEEN QUALIFIED BY TESTS AS PRESCRIBED BY AWS D1.6. SUBMIT WELDERS TEST RECORDS/ CERTIFICATIONS.
4. THE SUPPORTS ARE A DIFFERENT STAGE OF DETERIORATION AND THEY ARE CLASSIFIED AS CASE 1 & 2 REPAIRS DWG 94S06.
5. MATERIALS AND METHODS OF CONSTRUCTION ARE DESCRIBED BELOW.

LAUNDER AND COLLECTOR PIPE SUPPORT REPAIR MATERIALS:

1. ALL NEW STEEL PLATES AND ANGLES TO BE STAINLESS STEEL TYPE 304L, CONFORMING TO ASTM A276 STANDARDS.
2. ALL NEW BOLTS, INCLUDING ALL-THREAD RODS FOR ADHESIVE ANCHORS, TO BE STAINLESS STEEL TYPE 304, CONFORMING TO ASTM F593, GROUP 1, CONDITION CW, STANDARD.
3. NEW WELD STUDS TO BE STAINLESS STEEL, TYPE 304L, CONFORMING TO ASME A276 OR A43 STANDARDS. NELSON WELD STUDS ARE ALSO AN ACCEPTABLE PRODUCT.
4. ADHESIVE FOR ADHESIVE ANCHORS TO BE SIMPSON STRONG-TIE, SET-3G, OR HILTI HIT-RE 500-V3.
5. ELECTRODES FOR CARBON STEEL WELDING TO BE E70XX.
6. FOR WELDING STAINLESS STEEL TO CARBON STEEL USE 309L FILL MATERIAL. SUBMIT WELDING PROCEDURE AND FILLER METAL MATERIAL FOR REVIEW AND APPROVAL.

LAUNDER AND COLLECTOR PIPE SUPPORT CONSTRUCTION NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND MEMBER SIZES.
2. REPAIR OF THE EFFLUENT LAUNDER VERTICAL SUPPORTS (REPAIR ON DRAWING 94S06) CAN BE DONE ON EVERY OTHER SUPPORT AT THE SAME TIME. REPAIRS ON TWO ADJACENT VERTICAL SUPPORTS IS NOT PERMITTED. A VERTICAL SUPPORT INCLUDES BOTH SUPPORT ANGLES ON EACH SIDE OF THE EFFLUENT LAUNDER.
3. FOR CASES 1 AND 2 OF THE REPAIRS OF THE EFFLUENT LAUNDER VERTICAL SUPPORTS THE WELDED STUDS CONNECTION IS THE PREFERRED METHOD. IF EFFLUENT LAUNDER PLATE IS LESS THAN 3/16" THICK OR IF WELDED STUDS ARE POSSIBLE THEN USE THE WELDED CONNECTION DETAILS. METHODS ARE DESCRIBED IN DWG 94S06.
4. LOCATION OF WELDED STUDS CAN BE AT THE SAME LOCATIONS AS THE EXISTING STUDS IF THE EFFLUENT LAUNDER PLATE IS AT LEAST 3/16" THICK. WELDED STUDS CAN BE LOCATED AT LEAST TWO INCHES, MEASURED CENTER TO CENTER, ABOVE OR BELOW EXISTING STUDS.
5. NEW HOLES IN EXISTING SUPPORT ANGLES TO BE COATED IN ACCORDANCE WITH COATING SPECIFICATIONS.



REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2"-SCALE ACCORDINGLY)

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ECHOWATER RESOURCE  
RECOVERY FACILITY  
SECONDARY SEDIMENTATION TANKS  
10 & 16 REHABILITATION PROJECT

STRUCTURAL

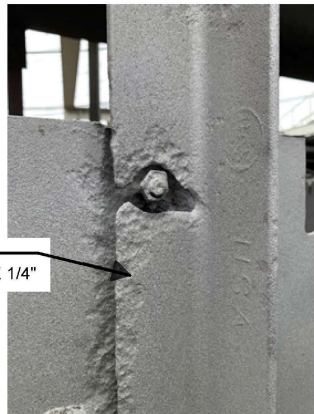
SST's 10 & 16  
LAUNDER & SLUDGE COLLECTOR  
REPAIR CONSTRUCTION NOTES

SCALE  
N.T.S.

DRAWING NUMBER  
**94S05**

SHEET NUMBER  
11 OF 18

PHOTO A  
N.T.S. S06



EXIST ANGLE  
L 2 1/2" X 2 1/2" X 1/4"

PHOTO B  
N.T.S. S06



EXIST ANGLE  
L 2 1/2" X 2 1/2" X 1/4"

CASE 1: ONE LEG OF SUPPORT ANGLE COMPLETELY CORRODED, OR SUPPORT ANGLE IN FAIR CONDITION BUT DETACHED FROM LAUNDER PLATE DUE TO RUST POCKETS BEHIND ANGLE



CORROSION  
AROUND BOLTS

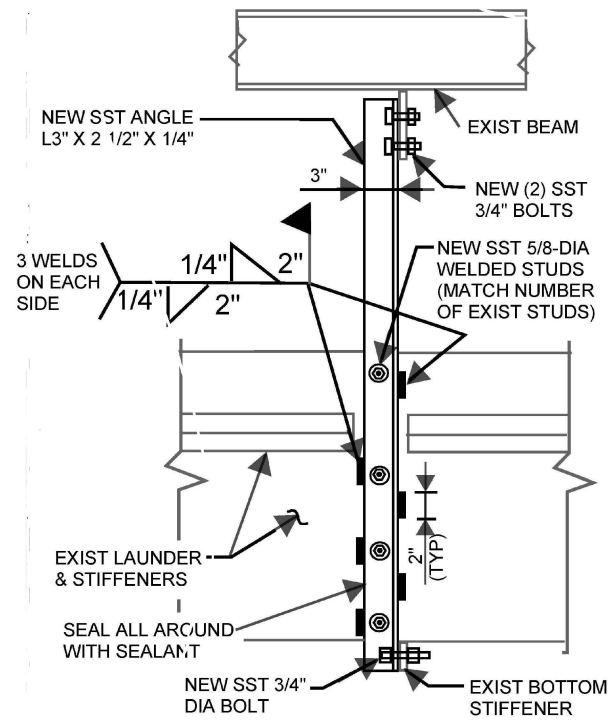
SEE DETAIL C/S06  
FOR CONNECTION  
DETAILS

CASE 2: SUPPORT ANGLE IN FAIR CONDITION BUT WITH LOCALIZED CORROSION AROUND THE BOLTS

CASE 2 REPAIR PROCEDURES (TYPICAL 40 PER TANK):

1. AFTER BLASTING, LOCATIONS TO BE DETERMINED BY DISTRICT ENGINEER.
2. SEE SHEET 94S05 FOR MATERIAL AND CONSTRUCTION NOTES.
3. CUT EXISTING STUD BOLTS, CLEAN HOLES AND WELD NEW STAINLESS STEEL 5/8" DIA THREADED STUD BOLTS TO LAUNDER PLATE. CONNECT EXISTING STAINLESS STEEL ANGLE L 3" X 2 1/2" X 5' 6" X 1/4" TO TOP SUPPORTING BEAMS TO LAUNDER.
4. IF WELDING NEW STUD BOLTS ARE NOT FEASIBLE, STICH WELD EXISTING ANGLE TO EXISTING EFFLUENT LAUNDER WITH (6) 1/4" FILLET WELDS BY 2" LONG, AND STAGGER 3 WELDS ON EACH SIDE OF THE ANGLE LEG. SEE DETAIL C/S06 FOR WELD INFORMATION.
5. CONNECT SUPPORT ANGLE TO EXISTING LAUNDER BOTTOM STIFFNER PLATE WITH A STAINLESS STEEL 3/4" DIA BOLT, NUT AND WASHER AS SHOWN IN DETAIL C/S06.
6. SEAL ALL EDGES OF NEW ANGLE IN CONTACT WITH THE LAUNDER PLATE WITH SIKAFLEX 1A SEALANT.

PHOTO D  
N.T.S. S06

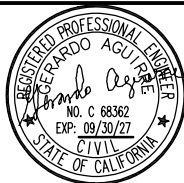


VERTICLE SUPPORT DETAIL C  
N.T.S. S06

CASE 1 REPAIR PROCEDURES (TYPICAL 40 PER TANK):

1. AFTER BLASTING, ANGLE REPLACEMENT LOCATIONS TO BE DETERMINED BY DISTRICT ENGINEER.
2. SEE SHEET 94S05 FOR MATERIAL AND CONSTRUCTION NOTES.
3. REMOVE EXITING SUPPORT ANGLE. CUT EXISTING BOLTS FLUSH WITH LAUNDER PLATE. BLAST CLEAN EFFLUENT LAUNDER PLATE AND COAT AS SPECIFIED IN THE CONTRACT.
4. WELD STAINLESS STEEL 5/8" DIA THREADED STUD TO LAUNDER PLATE. CONNECT NEW STAINLESS STEEL ANGLE L 3" X 2 1/2" X 5' 6" X 1/4" TO TOP SUPPORTING BEAMS AND TO LAUNDER. IF EXISTING LAUNDER PLATE IS LESS THAN 1/8" THICK STICH WELD NEW SUPPORT ANGLE TO EXISTING EFFLUENT LAUNDER WITH (6) 1/4" FILLET WELDS BY 2" LONG. AND STAGGER 3 WELDS ON EACH SIDE OF THE ANGLE LEG. SEE DETAIL C/S06 FOR WELD INFORMATION. CONNECT NEW SUPPORT ANGLE TO EXISTING LAUNDER BOTTOM STIFFENER PLATE WITH A STAINLESS STEEL 3/4" DIAMETER BOLT, NUT AND WASHER.
5. SEAL ALL EDGES OF NEW ANGLE IN CONTACT WITH THE LAUNDER PLATE WITH SIKAFLEX 1A SEALANT.

TYPICAL EFFLUENT LAUNDER VERTICLE SUPPORT ANGLE REPAIRS



REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 2 INCHES  
AT FULL SIZE  
(F NOT 2"-SCALE ACCORDINGLY)

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DESIGNED T.U.  
CHECKED \_\_\_\_\_

RFB #8529  
CONTRACT NUMBER

SACRAMENTO AREA  
SEWER DISTRICT  
OF SACRAMENTO COUNTY, CALIFORNIA

ECHOWATER RESOURCE  
RECOVERY FACILITY  
SECONDARY SEDIMENTATION TANKS  
10 & 16 REHABILITATION PROJECT

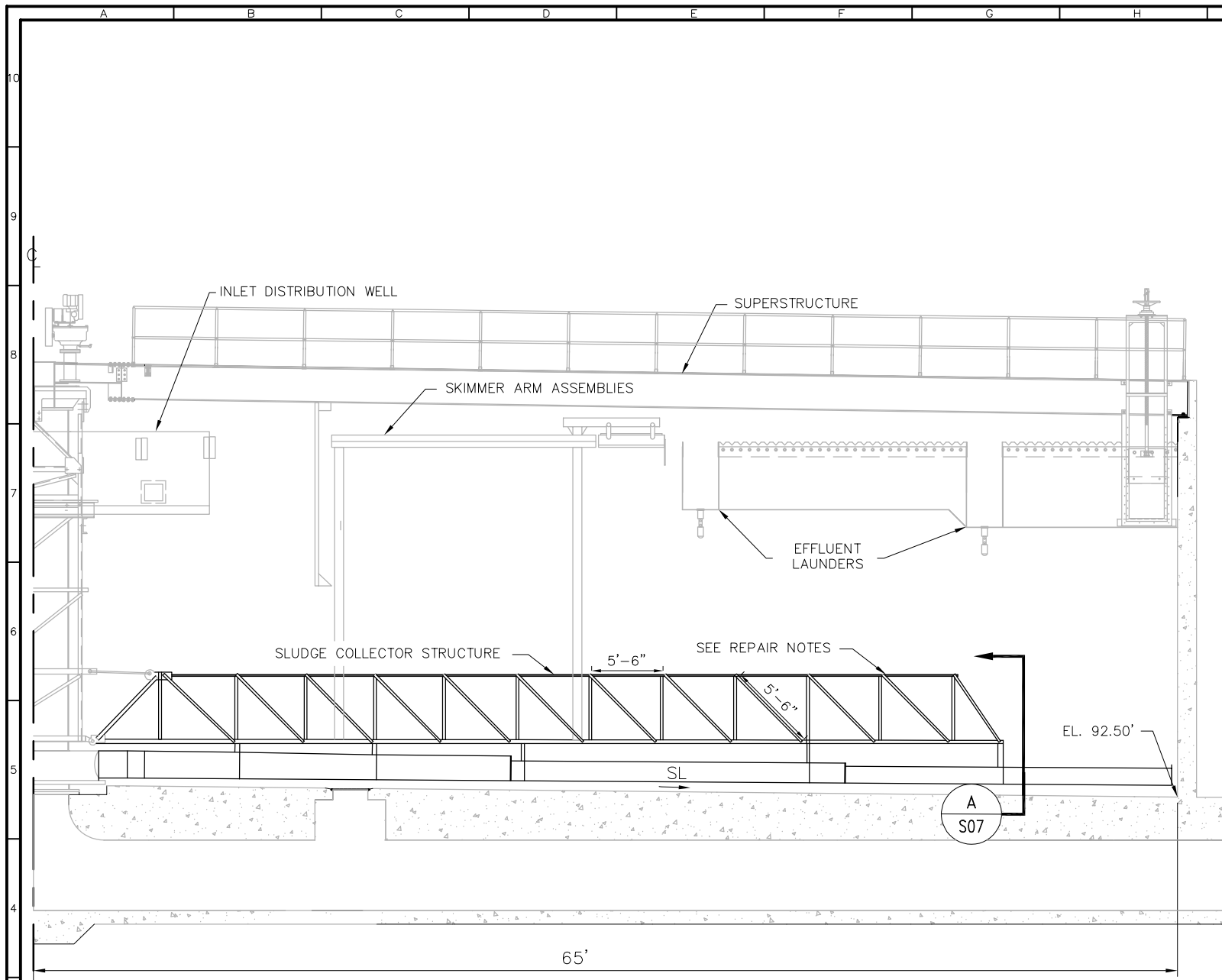
STRUCTURAL

SST's 10 & 16  
EFFLUENT LAUNDER VERTICAL  
SUPPORT REPAIR

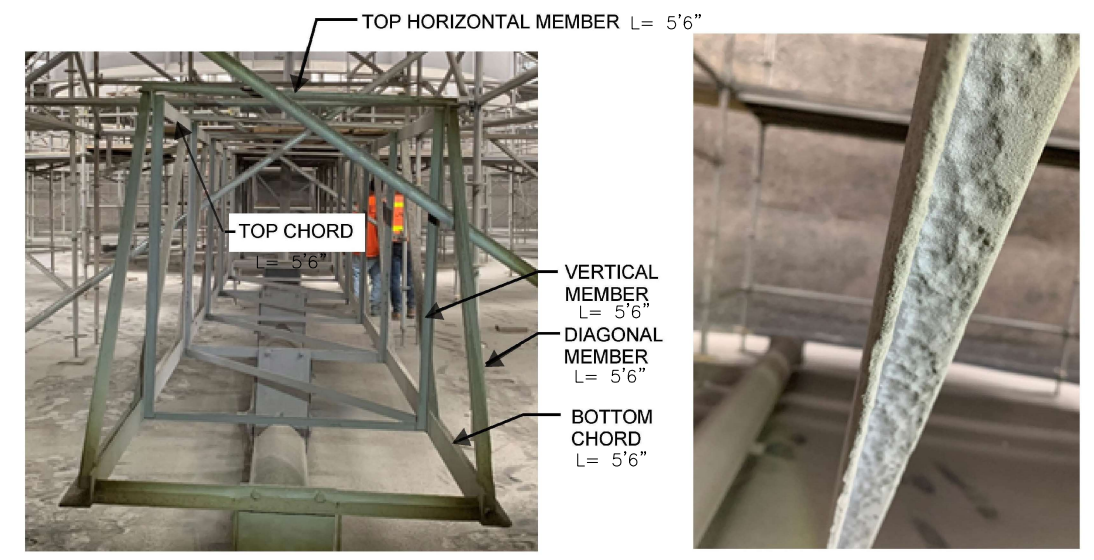
SCALE  
N.T.S.

DRAWING NUMBER  
**94S06**

SHEET NUMBER  
12 OF 18



SECTION 1 (TYPICAL OF 2 TANKS)  
N.T.S. S07  
SLUDGE COLLECTOR STRUCTURE PLAN VIEW

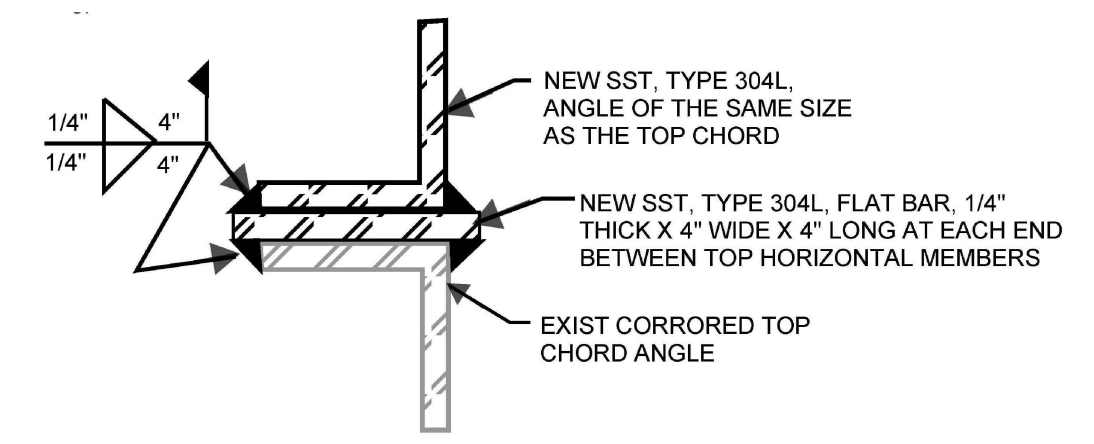


COLLECTOR PIPE SUPPORT ARM

TYPICAL MEMBER CORROSION

PHOTO A N.T.S. S07

PHOTO B N.T.S. S07



DETAIL C N.T.S. S07  
SLUDGE COLLECTOR ARM REPAIR

SLUDGE COLLECTOR REPAIR NOTES (TYPICAL 20 PER TANK):

1. AFTER BLASTING, DISTRICT ENGINEER WILL IDENTIFY CORRODED MEMBERS WITH CROSS SECTIONAL AREA LOSS OF 25 PERCENT OR MORE.
2. FOR CORRODED HORIZONTAL, VERTICAL AND DIAGONAL TRUSS MEMBERS WELD NEW STAINLESS STEEL TYPE 304L, ANGLE OF THE SAME SIZE AS THE CORRODED MEMBER TO THE OPPOSITE SIDE OF THE TOP AND BOTTOM CHORD MEMBERS ADJUST LOCATION OF THE NEW ANGLE TO AVOID CONFLICTS WITH EXISTING MEMBERS.
3. FOR CORRODED TOP CHORD MEMBERS WELD A 304L SST GUSSET PLATE 1/4" THICK X 4" WIDE X 4" LONG ON THE TO LEG, ONE AT EACH SIDE, BETWEEN TOP HORIZONTAL MEMBERS. WELD A NEW STAINLESS STEEL ANGLE OF THE SAME SIZE AS THE CORRODED MEMBER TO THE GUSSET PLATE PER DETAIL C/S07.
4. SEE DWG 94S05 FOR MATERIAL AND CONSTRUCTION NOTES



REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 2 INCHES AT FULL SIZE (F NOT 2"-SCALE ACCORDINGLY)

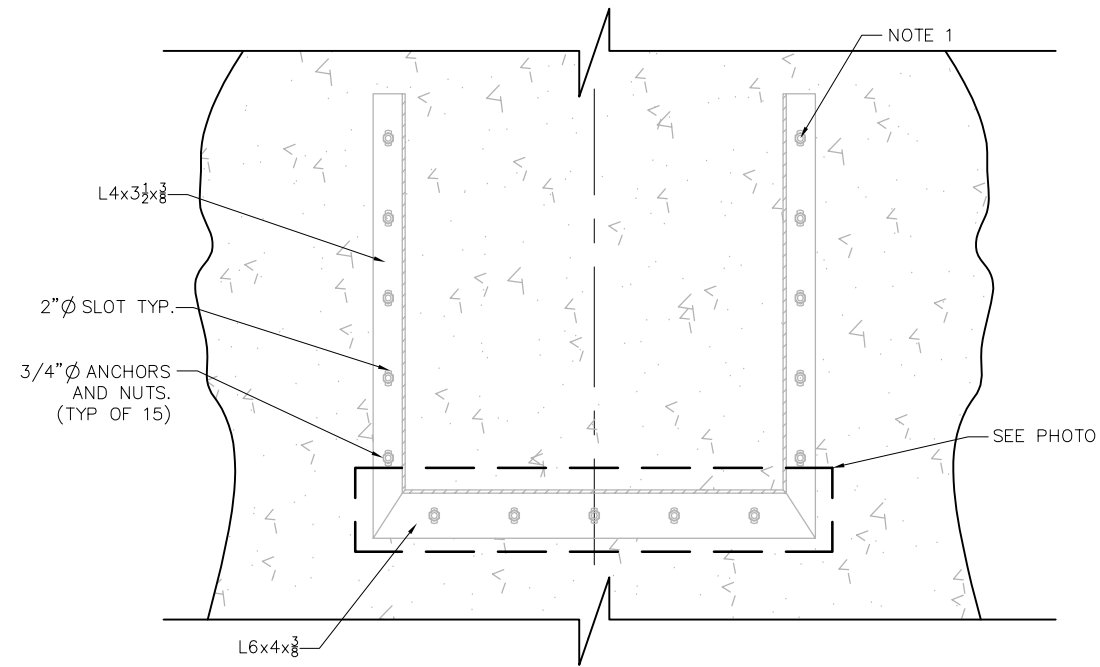
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RFB #8529  
CONTRACT NUMBER

SACRAMENTO AREA SEWER DISTRICT OF SACRAMENTO COUNTY, CALIFORNIA  
ECHOWATER RESOURCE RECOVERY FACILITY  
SECONDARY SEDIMENTATION TANKS 10 & 16 REHABILITATION PROJECT

STRUCTURAL  
SST's 10 & 16  
SLUDGE COLLECTOR PIPE SUPPORT REPAIR

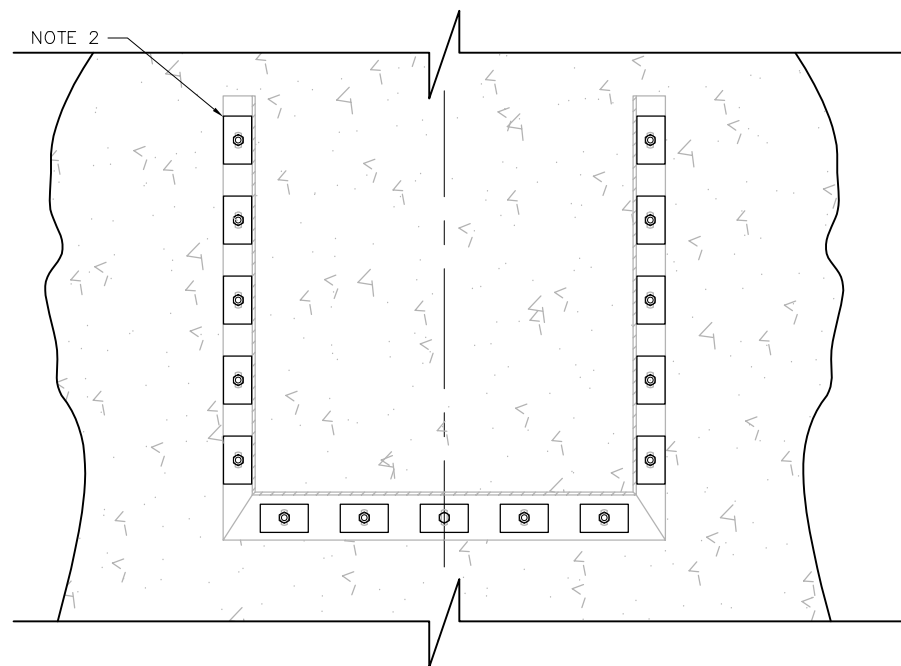
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DRAWING NUMBER 94S07  
SHEET NUMBER 13 OF 18



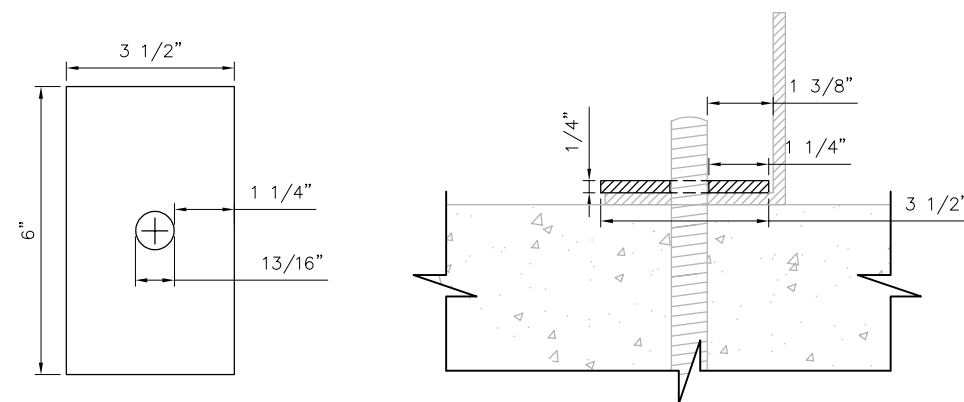
EXISTING LAUNDRER & CONCRETE WALL CONNECTION DETAIL



EXISTING LAUNDRER & CONCRETE WALL CONNECTION



NEW LAUNDRER & CONCRETE WALL CONNECTION DETAIL PER TANK



SQUARE WASHER DETAIL

NOTES:

1. REMOVE EXISTING 3/4" NUTS AND RETHREAD EXISTING ANCHORS AS NEEDED. REPLACE ANCHORS THAT BREAK DURING THE NUT REMOVAL.
2. PROVIDE FIFTEEN (15) 6"x3 1/2"x1/4" STAINLESS STEEL PLATE WASHERS WITH OFFSET 1-1/8" DIA. HOLE TO AVOID INTERFERENCE WITH LAUNDRER (APPROXIMATELY 15 WASHERS PER TANK).
3. SANDBLAST LAUNDRER FLANGE AND COAT PER SPEC. 09 90 00. CLEAN PLATE WASHERS OF OILS PRIOR TO INSTALLATION WITH NEW 3/4" STAINLESS STEEL NUTS. SEAL ALL EDGES AND BOLTS WITH SIKA1A TO PREVENT WATER INTRUSION BETWEEN PLATES.



REVISIONS					
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 DESIGNED: TU  
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RFB #8529  
 CONTRACT NUMBER

SACRAMENTO AREA SEWER DISTRICT OF SACRAMENTO COUNTY, CALIFORNIA

ECHOWATER RESOURCE RECOVERY FACILITY  
 SECONDARY SEDIMENTATION TANKS 10 & 16 REHABILITATION PROJECT

STRUCTURAL

SST's 10 & 16  
 EFFLUENT LAUNDRER REPAIR

SCALE

DRAWING NUMBER  
**94S08**

SHEET NUMBER  
 14 OF 18



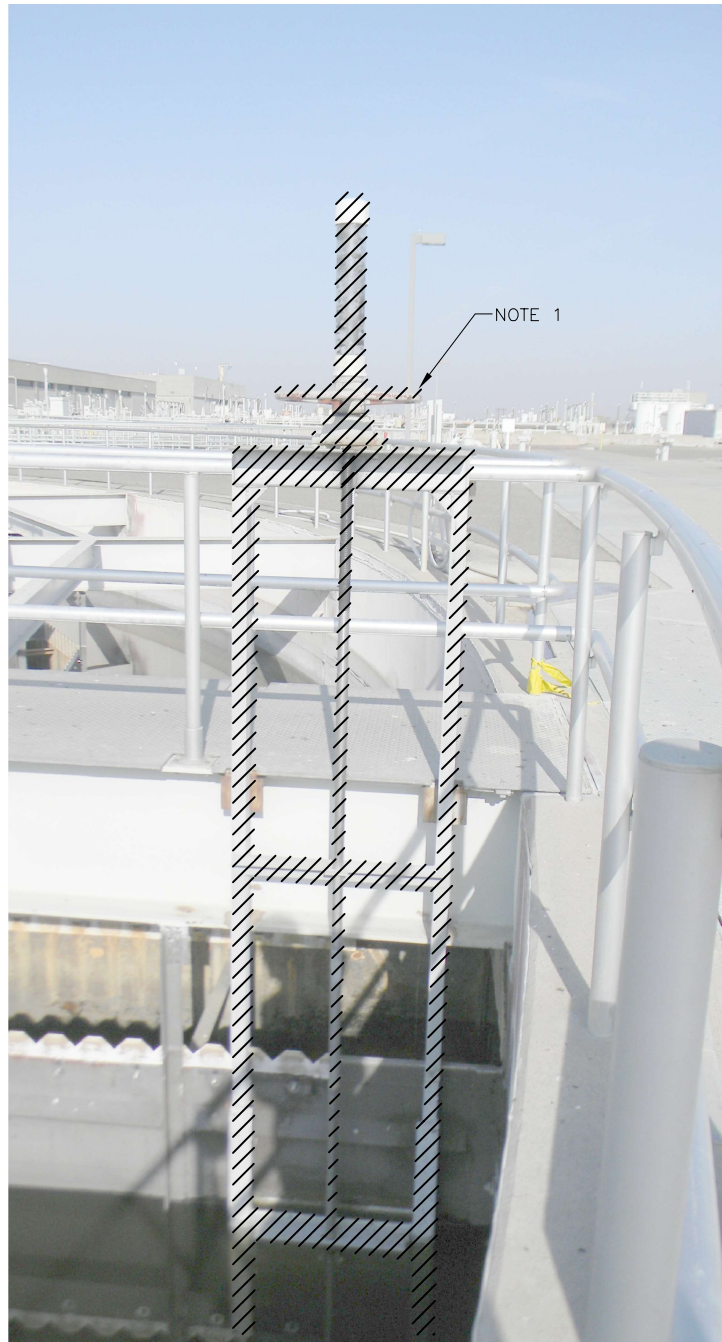


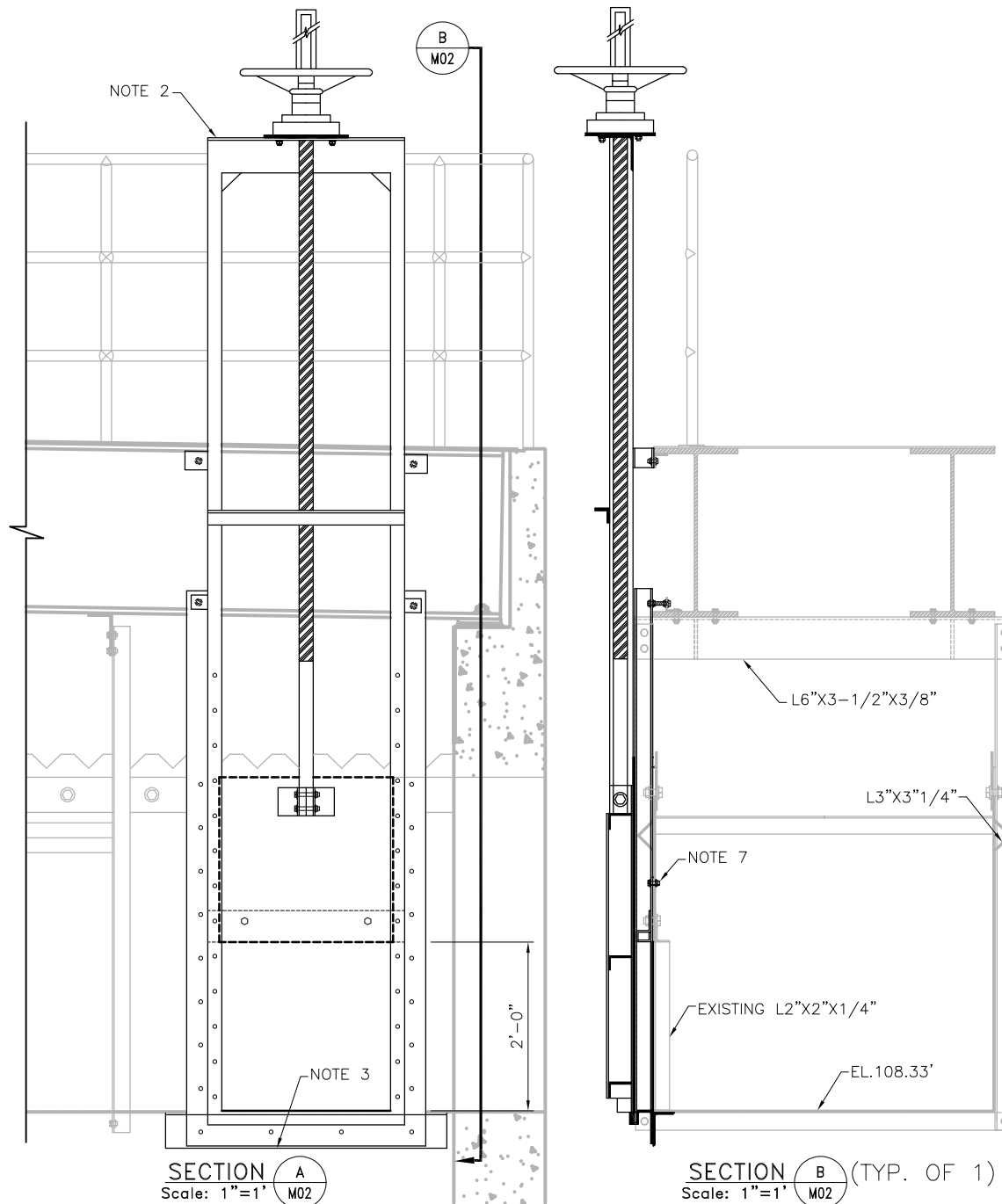
PHOTO (A) (TYP. OF 2)  
N.T.S. M02

**SST 10 SLG44214 NOTES:**

1. REMOVE EXISTING OPERATOR, SHAFT, AND SLIDE GATE AS SHOWN ON PHOTO A/M02.
2. REMOVE EXISTING SLIDE GATE AND ANGLE IRON ON EXISTING GATE.
3. MODIFY LAUNDERS AS NEEDED FOR THE PROPER INSTALLATION AND OPERATION OF SLIDE GATES INSTALLED UNDER THIS CONTRACT

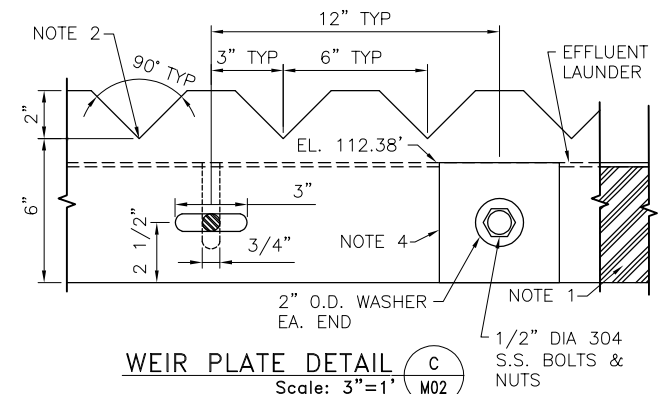
**SST 16 SLG44814 NOTES:**

1. REMOVE EXISTING OPERATOR, SHAFT, AND SLIDE GATE AS SHOWN ON PHOTO A/M02 AND RE-USE.



SECTION (A) (TYP. OF 1)  
Scale: 1"=1' M02

SECTION (B) (TYP. OF 1)  
Scale: 1"=1' M02



WEIR PLATE DETAIL (C)  
Scale: 3"=1' M02

**SST 10 & 16 NOTES:**

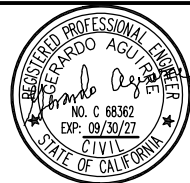
1. REPLACE EXISTING NEOPRENE WITH 1/8" THICK X 5" HIGH AND CONTINUOUS LENGTHS WHEN POSSIBLE. NEOPRENE BOLT HOLES TO BE PUNCHED OR DRILLED WITH TIGHT FIT TO PREVENT FLOW SHORT CIRCUITING. CONTRACTOR TO FIELD VERIFY ACTUAL LENGTH ON TANKS 10 & 16.
2. CAUTION MUST BE USED DURING THE WEIR PLATE REMOVAL/LABELING TO ALLOW FOR PROPER REINSTALLATION. CONTRACTOR WILL BE RESPONSIBLE TO CORRECT ANY EFFLUENT SHORT CIRCUITING. DUE TO BEAM DEFLECTIONS, ELEVATIONS ARE DIFFERENT WHEN THE TANK IS EMPTY VS. IN-SERVICE. SET THE V-NOTCH WEIR P TO EL. 112.40' +/- (1/8") WHEN TANKS ARE IN-SERVICE.
3. REUSE EXISTING WEIR BOLTS AND PROVIDE ADDITIONAL BOLTS AS NEEDED OR MISSING. ESTIMATE A TOTAL OF 30 SETS OF BOLTS, NUTS, AND WASHERS WILL NEED TO BE REPLACED ON TANKS 10 & 16. APPLY ANTI-SIEZE COMPOUND TO BOLTS.
4. INSTALL A FIBERGLASS SQUARE 5"X5"X1/4" THICK WITH 9/16" DIAMETER BOLT HOLE IN CENTER AT EACH BOLT TO SUPPORT EXISTING WEIR PLATE. A TOTAL OF 1,300 WASHERS FOR SST's 10 ONLY. FLAT AND SHARP EDGES OF FIBERGLASS WASHERS MUST BE SEALED WITH APPROPRIATE ULTRAVIOLET RESISTANT RESIN.

**SST 10 SLG44214 NOTES:**

1. INSTALL SLIDE GATES PER SPECIFICATION 40 06 20.30.
2. TOP OF FRAMES MUST BE 44" MINIMUM ABOVE EXISTING DECK AND OPERATORS MUST MAINTAIN A 3" MINIMUM SEPARATION FROM EXISTING RAILINGS.
3. WELD NEW 4' LONG L5"X3"X1/4" ASTM A36 TO EXISTING LAUNDERS.
4. MODIFY EXISTING LAUNDERS AS NEEDED TO ALLOW PROPER INSTALLATION AND INSTALLATION OF THE SLIDE GATES.
5. COAT EXISTING LAUNDRER AND BEAM PER SPECIFICATION 09 90 00 PRIOR TO SLIDE GATE INSTALLATION.
6. INSTALL 1/8" NEOPRENE CLOTH INSERT GASKET WITH RTV SEALANT BETWEEN SLIDE GATES AND EXISTING LAUNDERS.
7. TYPICAL SLIDE GATE ANCHORAGE PER MANUFACTURER INSTRUCTIONS. BOLTS SHALL BE TYPE 304 STAINLESS STEEL.

**SST 16 SLG44814 NOTES:**

1. REINSTALL EXISTING SLIDE GATE AND EXISTING NEOPRENE SEALS.



REVISIONS					
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ECHOWATER RESOURCE RECOVERY FACILITY  
SECONDARY SEDIMENTATION TANKS 10 & 16 REHABILITATION PROJECT

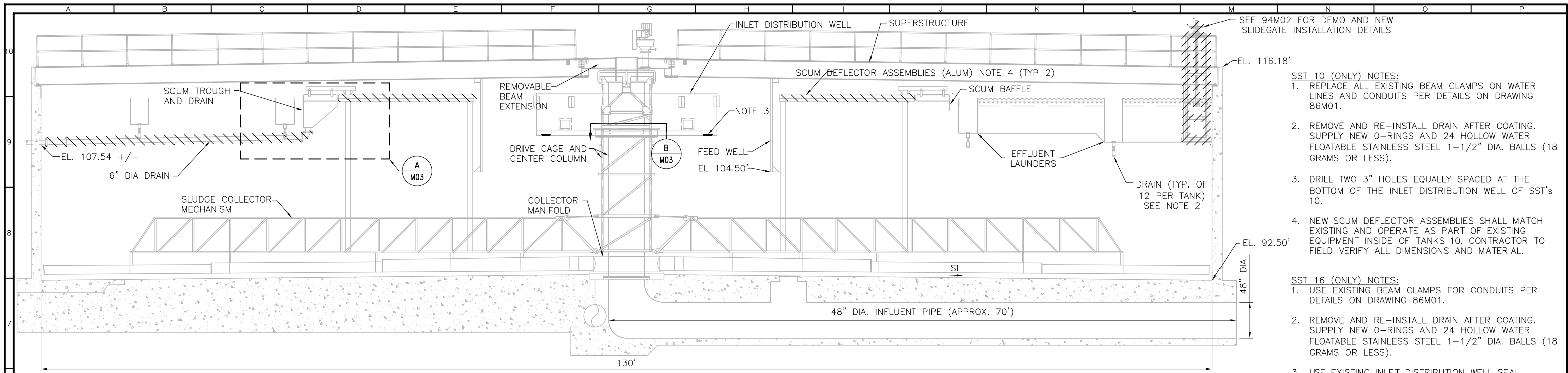
MECHANICAL

SST'S 10 & 16 SLIDE GATE AND WEIR PLATE MODIFICATIONS

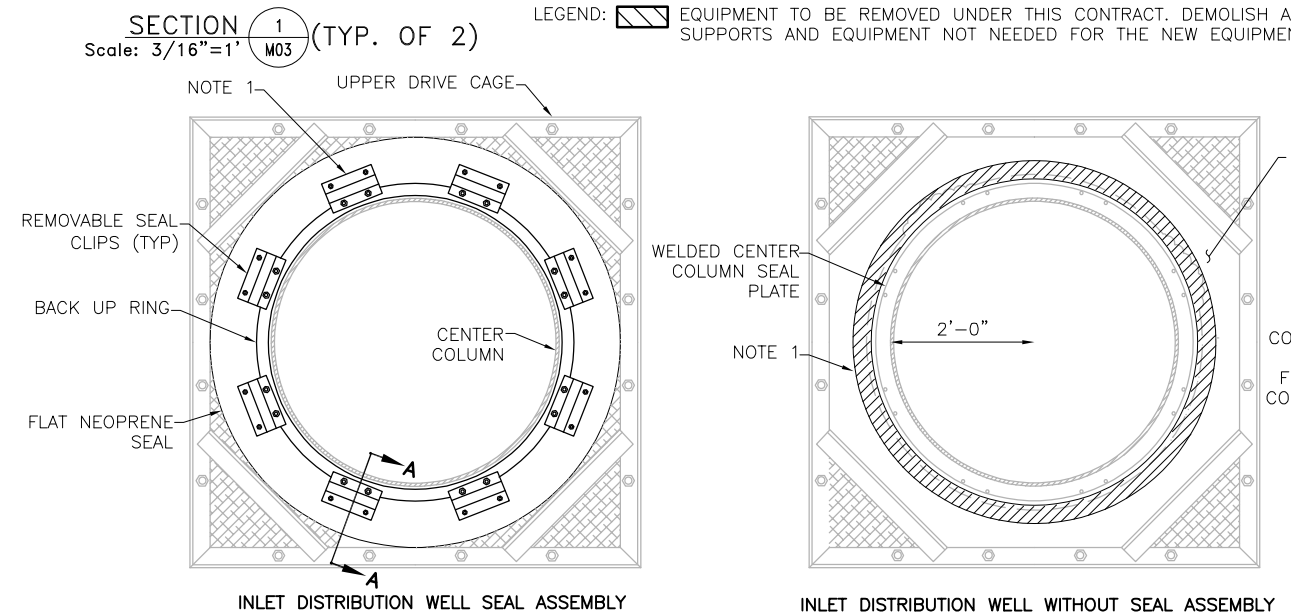
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DRAWING NUMBER 94M02

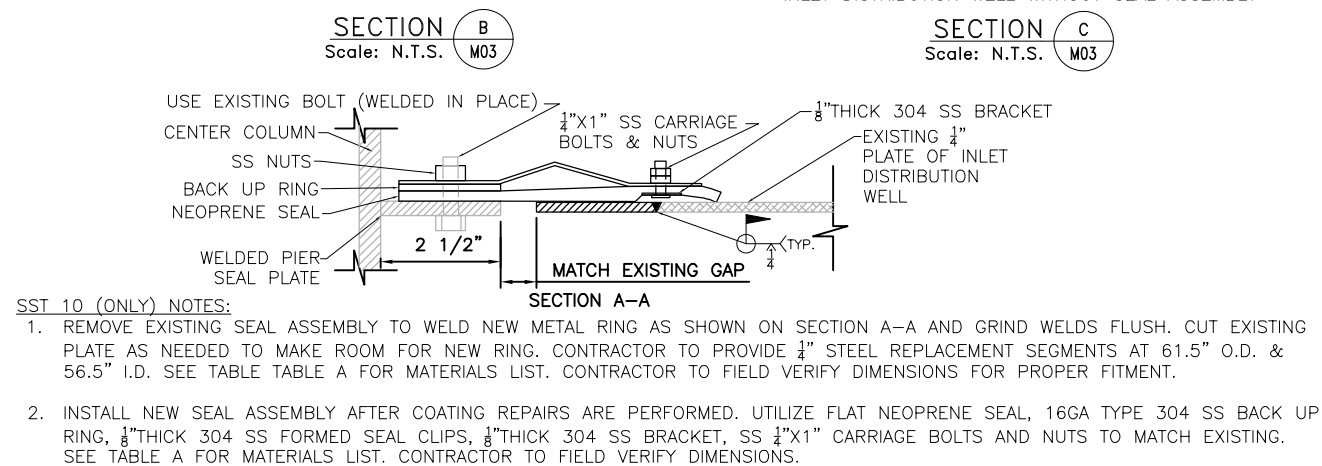
SHEET NUMBER 16 OF 18



- SST 10 (ONLY) NOTES:**
1. REPLACE ALL EXISTING BEAM CLAMPS ON WATER LINES AND CONDUITS PER DETAILS ON DRAWING 86M01.
  2. REMOVE AND RE-INSTALL DRAIN AFTER COATING. SUPPLY NEW O-RINGS AND 24 HOLLOW WATER FLOATABLE STAINLESS STEEL 1-1/2" DIA. BALLS (18 GRAMS OR LESS).
  3. DRILL TWO 3" HOLES EQUALLY SPACED AT THE BOTTOM OF THE INLET DISTRIBUTION WELL OF SST's 10.
  4. NEW SCUM DEFLECTOR ASSEMBLIES SHALL MATCH EXISTING AND OPERATE AS PART OF EXISTING EQUIPMENT INSIDE OF TANKS 10. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND MATERIAL.
- SST 16 (ONLY) NOTES:**
1. USE EXISTING BEAM CLAMPS FOR CONDUITS PER DETAILS ON DRAWING 86M01.
  2. REMOVE AND RE-INSTALL DRAIN AFTER COATING. SUPPLY NEW O-RINGS AND 24 HOLLOW WATER FLOATABLE STAINLESS STEEL 1-1/2" DIA. BALLS (18 GRAMS OR LESS).
  3. USE EXISTING INLET DISTRIBUTION WELL SEAL ASSEMBLY
  4. USE EXISTING SCUM DEFLECTOR ASSEMBLIES.



**PHOTO A**  
Scale: N.T.S. M03



**TABLE A**

**CENTER COLUMN SEAL MATERIAL LIST TANK 10 (ONLY)**

QTY	UM	PART	DESCRIPTION
8	EA	BRACKETS	3/8" 304ss BRACKETS
8	EA	FORMED BRACKET	3/8" THICK 304SS ANGLE BRACKETS
4	EA	SEAL RING SEGMENTS	16GA SS
1	EA	1/4" STEEL RING SET	61.5" OD 56.5" ID
32	EA	1/2"x1" BOLTS	SS CARRIAGE BOLTS
32	EA	NUTS	SS NUTS



**REVISIONS**

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

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**RFB #8529**  
CONTRACT NUMBER

**SACRAMENTO AREA SEWER DISTRICT OF SACRAMENTO COUNTY, CALIFORNIA**

**ECHOWATER RESOURCE RECOVERY FACILITY**

**SECONDARY SEDIMENTATION TANKS 10 & 16 REHABILITATION PROJECT**

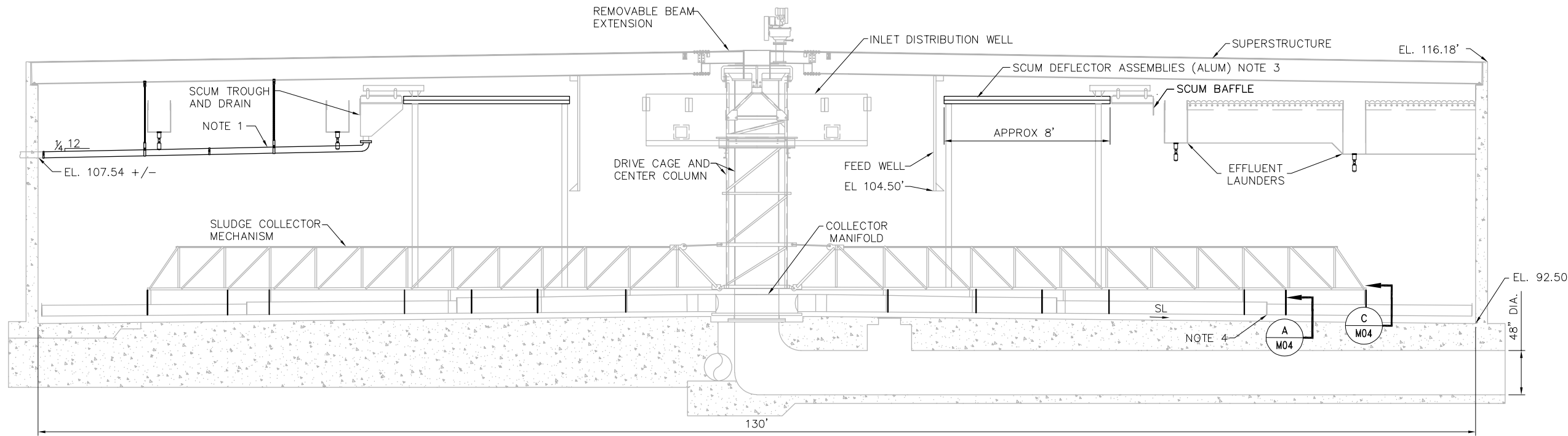
**MECHANICAL**

**SST 10 & 16 DEMOLITION AND DISTRIBUTION WELL SEAL REPAIR**

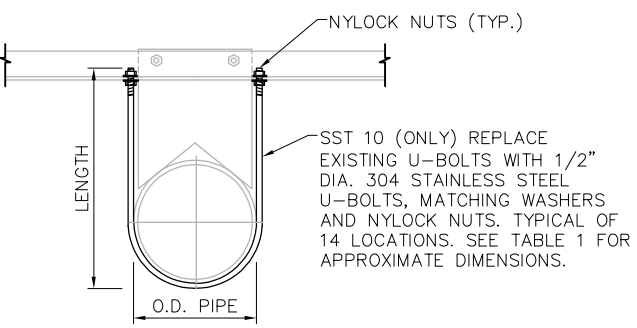
SCALE AS NOTED

DRAWING NUMBER **94M03**

SHEET NUMBER 17 OF 18

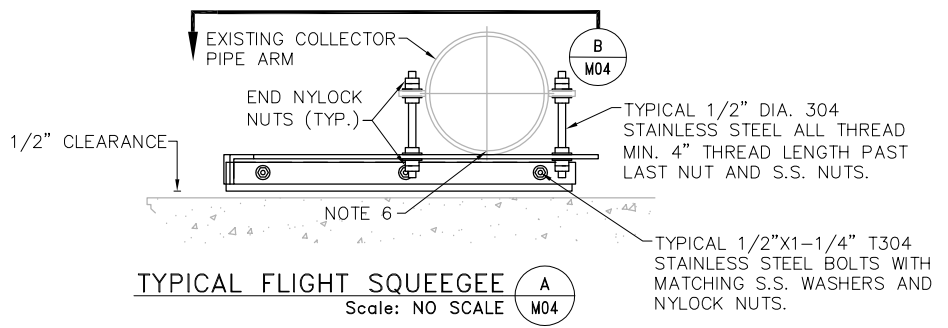


SECTION 1  
Scale: 3/16"=1'

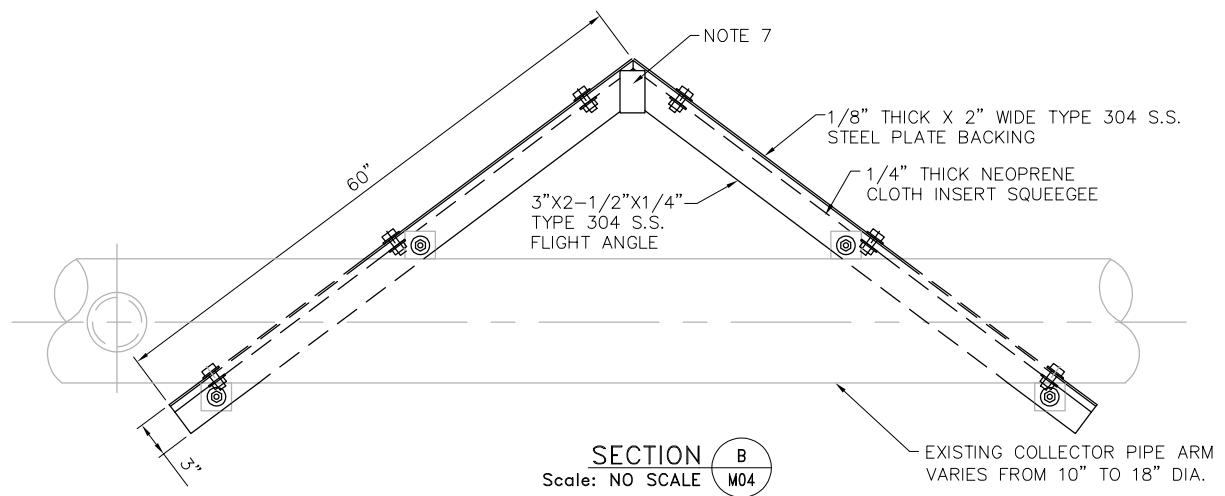


TYPICAL U-BOLT SUPPORT  
Scale: NO SCALE

TABLE 1 (FIELD VERIFY)		
O.D. PIPE (IN)	LENGTH (IN)	QUANTITY (PER TANK)
11	27	4
14	27	4
18	27	6



TYPICAL FLIGHT SQUEEGEE  
Scale: NO SCALE



SECTION B  
Scale: NO SCALE

TANK 10 ONLY NOTES:

- NEW SCUM PIPE SHALL BE 6" DIA. ASTM A312 TYPE 304L SCH.10 STAINLESS STEEL PIPE. JOINT FITTINGS SHALL BE GRUVLOK FIG.7400SS GROOVE COUPLINGS WITH NITRILE GASKET OR EQUAL. PIPE SUPPORTS SHALL BE STAINLESS STEEL AS SHOWN ON DRAWING 94M01. HORIZONTAL BENDS ON NEW PIPE TO ALLOW FOR MISPLACEMENT OF NEW SCUM TROUGH WILL NOT BE PERMITTED.
- SECONDARY SEDIMENTATION TANK EQUIPMENT SHALL BE SET TO PROPERLY OPERATE AT NORMAL FLOW CONDITIONS AND WEIR PLATE AND V-NOTCH ELEVATION OF 112.40'. SEE NOTE 2 ON 94M02 FOR ADDITIONAL INFORMATION.
- SCUM DEFLECTOR ASSEMBLIES SHALL MATCH EXISTING AND OPERATE AS PART OF EXISTING EQUIPMENT INSIDE OF TANKS 10. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND MATERIAL.
- CONTRACTOR TO REMOVE EXISTING COLLECTOR FLIGHT SQUEEGEES PRIOR TO COATING EXISTING SLUDGE COLLECTOR PIPES. EXISTING FLIGHT SQUEEGEES NOT SHOWN FOR CLARITY (TYP. OF 30 PER TANK).
- INSTALL NEW FLIGHT SQUEEGEES ACCORDING TO A/M04 AND B/04 (TYP. OF 30 PER TANK). CONTRACTOR TO FIELD VERIFY ORIENTATION AND ACTUAL LENGTHS PRIOR TO REMOVAL OF EXISTING FLIGHTS SO NEW FLIGHTS ARE INSTALLED IN SAME MANNER.
- INSTALL S.S. SHIMS TACK WELDED TO SQUEEGEE AS NEEDED TO MAINTAIN NEEDED CLEARANCE FROM FLOOR. INSTALL 1/8" NEOPRENE BETWEEN SHIMS AND COLLECTOR PIPE THEN BOLT TIGHT SQUEEGEE ARM AGAINST THE COLLECTOR ARM.
- FIELD WELD 3"x2" S.S. BAR TO CONNECT FLIGHT SQUEEGEES.

TANK 16 ONLY NOTES:

- EXISTING 6" SCUM PIPE TO REMAIN IN-PLACE AND PROTECTED FROM BLASTING AND COATING.
- SECONDARY SEDIMENTATION TANK EQUIPMENT SHALL BE SET TO PROPERLY OPERATE AT NORMAL FLOW CONDITIONS AND WEIR PLATE V-NOTCH ELEVATION OF 112.40'. SEE NOTE 2 ON 94M02 FOR ADDITIONAL INFORMATION.
- EXISTING SCUM DEFLECTOR ASSEMBLIES TO REMAIN IN-PLACE AND PROTECTED FROM BLASTING AND COATING.
- USE EXISTING BOLTED CONNECTIONS TO EXISTING MEMBERS.
- CONTRACTOR TO REMOVE EXISTING COLLECTOR FLIGHT SQUEEGEES PRIOR TO COATING EXISTING SLUDGE COLLECTOR PIPES. EXISTING FLIGHT SQUEEGEES NOT SHOWN FOR CLARITY (TYP. OF 30 PER TANK).
- RE-INSTALL EXISTING FLIGHT SQUEEGEES ACCORDING TO A/M04 AND B/M04 (TYP. OF 30 PER TANK). INSTALL NEW 1/8" NEOPRENE THEN BOLT TIGHT SQUEEGEE ARM AGAINST THE COLLECTOR ARM.



REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE \_\_\_\_\_  
DRAWN TU  
DESIGNED TU  
CHECKED \_\_\_\_\_

RFB #8529  
CONTRACT NUMBER

SACRAMENTO AREA SEWER DISTRICT OF SACRAMENTO COUNTY, CALIFORNIA

ECHOWATER RESOURCE RECOVERY FACILITY  
SECONDARY SEDIMENTATION TANKS 10 & 16 REHABILITATION PROJECT

MECHANICAL

SST 10 & 16 NEW EQUIPMENT

SCALE AS NOTED

DRAWING NUMBER 94M04

SHEET NUMBER 18 OF 18