



**SACRAMENTO AREA
SEWER DISTRICT**

SERVING YOU 24/7



MARCH 2026

CONTRACT DOCUMENTS FOR THE CONSTRUCTION OF
ECHOWATER RESOURCE RECOVERY FACILITY

PRIMARY DECK REHABILITATION PROJECT PHASE 5: SLIDE GATE REPAIRS

Version: 2026.1.0

BID DOCUMENTS

PART C - DRAWINGS
VOLUME 2 OF 2



8530
RFB NUMBER



SACRAMENTO AREA SEWER DISTRICT

SERVING YOU 24/7



MARCH 2026

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CONTRACT DOCUMENTS FOR THE CONSTRUCTION OF ECHOWATER RESOURCE RECOVERY FACILITY

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PRIMARY DECK REHABILITATION PROJECT PHASE 5: SLIDE GATE REPAIRS

BID DOCUMENTS
GENERAL, STRUCTURAL

PART C - DRAWINGS
VOLUME 2 OF 2
APPROVALS

Version: 2026.1.0



<i>Jorge Melendez</i> SUBMITTED: JORGE MELENDEZ, PE PROJECT ENGINEER	3/9/2026 DATE	<i>Guillermo Robles</i> SUBMITTAL APPROVED: GUILLERMO ROBLES, PE PROJECT MANAGER	3/9/2026 DATE		
<i>William Yu</i> SUBMITTAL APPROVED: WILLIAM YU, PE ENGINEERING MANAGER, ECHOWATER OPERATIONS DEPARTMENT	3/10/2026 DATE	<i>Sonny Lunde</i> SUBMITTAL APPROVED: SONNY LUNDE, PE DIRECTOR, ECHOWATER OPERATIONS DEPARTMENT	3/10/2026 DATE	<i>Christoph Dobson</i> APPROVED: CHRISTOPH DOBSON, PE DISTRICT ENGINEER	3/10/2026 DATE

8530
RFB NUMBER

INDEX OF DRAWINGS

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
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TREATMENT PLANT ABBREVIATIONS

AGRT	AERATED GRIT REMOVAL TANK
EDS	EMERGENCY DIVERSION STRUCTURE
IDC	INFLUENT DIVERSION CHANNEL
MDC	MAINTENANCE DIVERSION CHANNEL
ORT	ODOR REMOVAL TOWER
PDC	PRIMARY DISTRIBUTION CHANNEL
PEC	PRIMARY EFFLUENT CHANNEL
PECC	PRIMARY EFFLUENT COLLECTION CHANNEL
PSS	PRIMARY SEDIMENTATION STRUCTURE
PST	PRIMARY SEDIMENTATION TANK
SACSEWER	SACRAMENTO AREA SEWER DISTRICT
ECHOWATER FACILITY	ECHOWATER RESOURCE RECOVERY FACILITY

SYMBOLS

	- DETAIL / NEW CALLOUT
	- SECTION CALLOUT
	- STRUCTURAL GRIDLINE
	- ELEVATION MARKER
	- ELEVATION CALLOUT
	- DRAWING MATCHLINE
	- NORTH ARROW
	- SURFACE PREPARATION AND COATING SYSTEM, SEE SPECIFICATIONS
	- EXISTING CONCRETE
	- CONCRETE DEMOLITION
	- NEW CAST-IN-PLACE CONCRETE
	- NEW SITE-PRECAST CONCRETE
	- EXISTING REINFORCING STEEL
	- NEW REINFORCING STEEL

GENERAL ABBREVIATIONS

&	AND
#	NUMBER OR REBAR SIZE (# / 8 ")
@	AT
Ø	DIAMETER
ADD'L	ADDITIONAL
ALT.	ALTERNATE
APPROX.	APPROXIMATE
BFV	BUTTERFLY VALVE
BTW.	BETWEEN
¢	CENTERLINE
C.I.	CAST IRON
CJ	CONSTRUCTION JOINT
CLR	CLEAR
CONC.	CONCRETE
CONT.	CONTINUOUS
DIA.	DIAMETER
DO	DITTO (SAME AS ADJACENT)
DWG(S)	DRAWINGS
(E)	EXISTING
EQ	EQUAL
F.B.	FLAT BAR
FRP	FIBER-REINFORCED POLYMER
GALV.	GALVANIZED
GVW	GROSS VEHICLE WEIGHT
HORIZ.	HORIZONTAL
ID	INSIDE DIAMETER
LF	LINEAR FEET
LNG	LONG
MAX.	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MVU	MOTOR VEHICLE USE
(N)	NEW
NOM.	NOMINAL
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
¢	PLATE
PSF	POUNDS PER SQUARE FOOT
QTY.	QUANTITY
RC	REINFORCED CONCRETE
REF	REFERENCE
REQ'D	REQUIRED
SIM.	SIMILAR
SS	STAINLESS STEEL
STD.	STANDARD
STIFF	STIFFENER
ST'L	STRUCTURAL
SQ	SQUARE
THK.	THICK OR THICKNESS
THRU	THROUGH
TYP.	TYPICAL
U.N.O	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH



NO.	DESCRIPTION	ENGR INIT	DISTRICT APPROVAL	
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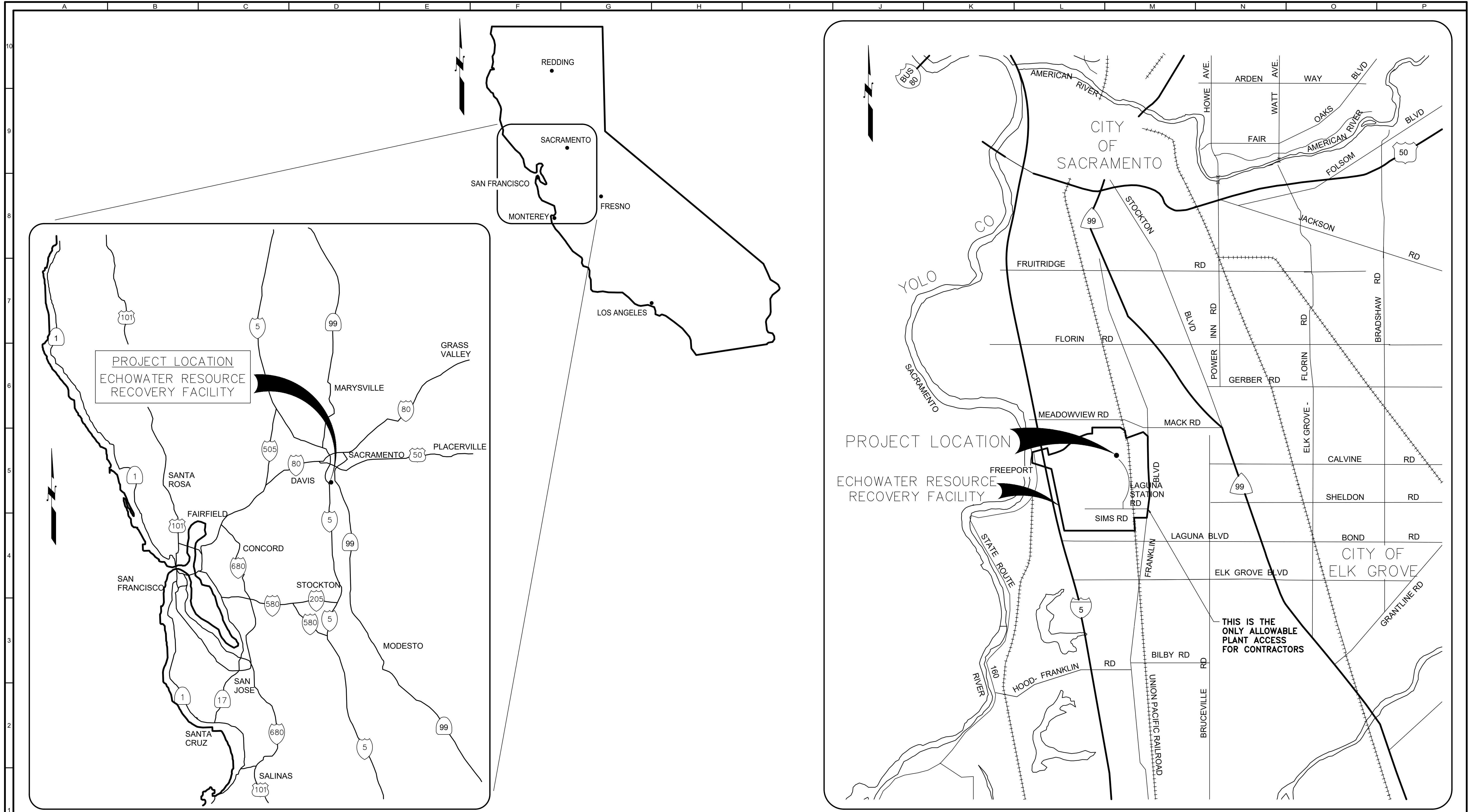
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SACRAMENTO AREA SEWER DISTRICT OF SACRAMENTO COUNTY, CALIFORNIA
 ECHOWATER RESOURCE RECOVERY FACILITY
 PRIMARY DECK REHABILITATION PROJECT
 PHASE 5: SLIDE GATE REPAIRS

SCALE	NO SCALE
DRAWING NUMBER	G02
SHEET NUMBER	3 OF 10

INDEX OF DRAWINGS



VICINITY MAP

LOCATION MAP



NO.	DESCRIPTION	ENGR INIT	DISTRICT APPROVAL	
			BY	DATE

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DRAWN	JM
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SACRAMENTO AREA SEWER DISTRICT
OF SACRAMENTO COUNTY, CALIFORNIA
ECHOWATER RESOURCE RECOVERY FACILITY
PRIMARY DECK REHABILITATION PROJECT
PHASE 5: SLIDE GATE REPAIRS

VICINITY & LOCATION MAP

SCALE	NO SCALE
DRAWING NUMBER	G03
SHEET NUMBER	4 OF 10

GENERAL NOTES

INTENT AND SCOPE OF WORK

THE INTENT OF THE WORK DESCRIBED IN THESE CONSTRUCTION DOCUMENTS IS TO REPAIR DAMAGED OR OTHERWISE DETERIORATED ELEMENTS, AND TO REESTABLISH STRUCTURAL CAPACITIES INTENDED BY THE ORIGINAL STRUCTURAL DRAWINGS.

THE SCOPE OF WORK INCLUDES THE FOLLOWING, LIMITED IN GENERAL TO THE PRIMARY SEDIMENTATION STRUCTURE OF THE ECHOWATER RESOURCE RECOVERY FACILITY:

- DEMOLITION AND RECASTING OF DELAMINATED, DAMAGED, OR OTHERWISE DETERIORATED CONCRETE.
- DEMOLITION, REPLACEMENT, OR REPAIR OF DAMAGED OR OTHERWISE DETERIORATED HATCH FRAME ELEMENTS.
- DEMOLITION, REPLACEMENT, OR REPAIR OF SELECTED DAMAGED OR OTHERWISE DETERIORATED SLIDE GATE FRAMES.

GENERAL

- ALL CONSTRUCTION SHALL CONFORM TO THE 2025 EDITION OF THE CALIFORNIA BUILDING CODE AND ALL APPLICABLE AMENDMENTS BY LOCAL JURISDICTIONS.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE STARTING WORK, AND SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES.
- TYPICAL DETAILS AND GENERAL NOTES ARE APPLICABLE UNLESS OTHERWISE DETAILED OR NOTED ON THE DRAWINGS. THE JOB SPECIFICATIONS AND NOTES OR DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS AND GENERAL NOTES.
- COORDINATE AND OBTAIN INSPECTIONS AND SPECIAL INSPECTIONS REQUIRED FOR THE WORK.
- INSTALL OR APPLY MATERIALS SPECIFIED OR SHOWN IN THESE DRAWINGS IN STRICT CONFORMANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. WHERE APPLICABLE, THE CONTRACTOR SHALL BE A LICENSED APPLICATOR OR INSTALLER OF ALL SPECIFIED PROPRIETARY PRODUCTS AND MATERIALS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR THEIR MEANS AND METHODS OF CONSTRUCTION, AND SHALL PERFORM ALL WORK IN A SAFE AND CONSCIENTIOUS MANNER TO PREVENT INJURIES.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY, AND SHALL ENSURE THEIR COMPLIANCE WITH OSHA STANDARDS FOR JOB SAFETY AND WORKER PROTECTION. SAFETY MEASURES INCLUDE, BUT ARE NOT LIMITED TO ADEQUATE FALL PROTECTION, ERECTION BRACING, BARRICADES, FENCES, SIGNS, FIRST AID STATIONS, CONFINED SPACE PROTECTION, ETC.
- CONTRACTOR SHALL PROTECT ALL EXISTING AND ADJACENT SURFACES FOR THE DURATION OF THE PROJECT. ANY DAMAGE TO EXISTING STRUCTURES OR OWNER CONTENTS THAT HAVE BEEN DETERMINED TO BE CAUSED BY THE CONTRACTOR, OR CONSTRUCTION PRACTICES THAT OCCUR FOLLOWING THE NOTICE TO PROCEED, SHALL BE CORRECTED TO PRE-CONSTRUCTION CONDITION AT NO EXPENSE TO THE OWNER.
- TIMING OF CONSTRUCTION ACTIVITIES, INCLUDING THOSE REQUIRING PARTIAL OR COMPLETE SHUTDOWN OF PORTIONS OF THE TREATMENT PLANT, SHALL BE CLOSELY COORDINATED WITH SACSEWER. ALL CHANNELS AND TANKS SHALL REMAIN OPERATIONAL DURING WORK EXCEPT AS PERMITTED BY AND COORDINATED WITH SACSEWER.
- COORDINATE LAYDOWN LOCATION ACCORDING TO ACCESS REQUEST REQUIREMENTS. INCLUDING MATERIAL STORAGE, PORTABLE TOILETS, DUMPSTERS, AND OTHER FACILITIES REQUIRED FOR CONSTRUCTION WITH SACSEWER PRIOR TO CONSTRUCTION.
- PRIMARY SEDIMENTATION STRUCTURE DECK CONTAINS ADDITIONAL PIPES, CONDUITS, EQUIPMENT, CURBS, LIGHTS, PANELS, ETC. THAT ARE NOT SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL VERIFY IN FIELD THE EXISTENCE AND LOCATION OF THESE POTENTIAL OBSTACLES PRIOR TO COMMENCING WORK.

DEMOLITION

- DOUBLE-GATE ISOLATION IS REQUIRED BEFORE ENTRY INTO CONFINED SPACE BY THE CONTRACTOR'S PERSONNEL. SINGLE-GATE ISOLATION IS ONLY AVAILABLE IN THE DISTRIBUTION CHANNEL; CONSTRUCT A TEMPORARY BULKHEAD TO ACHIEVE DOUBLE ISOLATION PRIOR TO ENTRY.
- DO NOT PLACE LOADS ON THE STRUCTURE OR STORE DEMOLISHED MATERIALS ON THE STRUCTURE IN A MANNER THAT WILL ENDANGER IT. SEE S02 FOR VEHICULAR LOAD LIMITS ON THE PRIMARY SEDIMENTATION STRUCTURE DECK.
- ALL HATCH COVERS AT THE PRIMARY SEDIMENTATION STRUCTURE, EXCEPT WHERE REPAIRED OR REPLACED AS PART OF THESE DRAWINGS, SHALL BE ASSUMED TO HAVE NO STRUCTURAL CAPACITY. DO NOT OPERATE EQUIPMENT OR PLACE LOADS ON HATCH COVERS IN ANY PART OF THE PRIMARY SEDIMENTATION STRUCTURE, REGARDLESS OF THE LOAD RATING SHOWN ON SHEET S02.
- PRIOR TO DEMOLITION, REMOVE EXISTING HATCH COVERS, GRATING, AND SUPPORT BEAMS, AND STORE FOR REUSE UNLESS OTHERWISE DETAILED IN DRAWINGS.

5. CONDUCT DEMOLITION WORK TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING CHANNEL BELOW. SMALL QUANTITIES OF SMALL CHIPS (LESS THAN 1") AND DUST INCIDENTAL TO CAREFUL CONCRETE REMOVAL ARE ACCEPTABLE.

6. ALL PLASTIC LINER DAMAGED DURING DEMOLITION OR CONSTRUCTION WORK SHALL BE REPAIRED.

STRUCTURAL NOTES

CAST-IN-PLACE CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE.
- MINIMUM CLEAR COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE DETAILED IN THE DRAWINGS:
 - CONCRETE CAST DIRECTLY AGAINST EARTH: 3"
 - CONCRETE TO BE IN CONTACT WITH WASTEWATER: 2-1/2"
 - ALL OTHER CONCRETE: 2"
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AFTER CASTING AS FOLLOWS:
 - ALL CONCRETE: 4000 PSI
- ALL CONCRETE SHALL BE NORMALWEIGHT.
- ALL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES, AND EMBEDMENTS NOT SHOWN ON STRUCTURAL DRAWINGS, BUT REQUIRED BY OTHER DRAWINGS OR SPECIFICATIONS SHALL BE PROVIDED PRIOR TO CASTING CONCRETE.
- EXCEPT AS OTHERWISE REQUIRED, ALL EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4" CHAMFERS.
- CONCRETE ROUGHENING SHALL BE TO A MINIMUM AMPLITUDE OF 1/4-INCH PER ACI 318, AND SHALL BE PERFORMED AT ALL NEW-TO-EXISTING CONCRETE INTERFACES, UNLESS OTHERWISE NOTED. ALL ROUGHENED SURFACES SHALL BE BLOWN FREE OF DUST AND DEBRIS TO ENSURE GOOD BOND BETWEEN NEW AND EXISTING CONCRETE.

REINFORCING STEEL

- ALL REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD AND SHALL CONFORM TO THE TYPICAL BENDS SHOWN IN DETAIL 1/S01, AND AS REQUIRED BY THE LATEST EDITION OF ACI 318.
- REINFORCEMENT DEVELOPMENT LENGTH AND SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING, AND AS REQUIRED BY THE LATEST EDITION OF ACI 318:
 - MINIMUM DEVELOPMENT LENGTH FOR BARS IN TENSION SHALL BE:
 - #6 BARS AND SMALLER: 38 TIMES THE NOMINAL BAR DIAMETER (TYPICAL)
 - #7 BARS AND LARGER: 48 TIMES THE NOMINAL BAR DIAMETER (TYPICAL)
 - MINIMUM SPLICE LENGTH FOR BARS IN TENSION SHALL BE 1.3 TIMES THE DEVELOPMENT LENGTH. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, THE SPLICE LENGTH MAY BE BASED ON THE SMALLER OF THE TWO BARS.
- DOWELS SHALL BE THE SAME SIZE AND SPACING AS THE BARS WITH WHICH THEY ARE LAPPED, UNLESS OTHERWISE NOTED.
- NO FIELD WELDING OF REINFORCING STEEL IS PERMITTED.
- ALL REINFORCING STEEL SHALL BE ACCURATELY AND SECURELY IN PLACE PRIOR TO CASTING CONCRETE.
- ALL REINFORCING BARS SHALL BE FREE OF DIRT, GREASE, LOOSE RUST, OR OTHER MATERIALS THAT MAY IMPAIR BOND WITH CONCRETE.

MISCELLANEOUS STEEL

- MISCELLANEOUS STEEL, INCLUDING BUT NOT LIMITED TO HATCHES, HATCH FRAMES, AND SLIDE GATE FRAMES BUILT UP FROM ANGLES, CHANNELS, PLATES, AND BARS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - STAINLESS STEEL: ASTM A276-2017, TYPE 316
 - ALL OTHER STEEL: ASTM A36-2017
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS, APPROVED BY THE BUILDING OFFICIAL HAVING JURISDICTION, USING SUITABLE FILLER MATERIALS. WELDERS SHALL BE CERTIFIED FOR BOTH THE TYPE AND POSITION OF THE WELDS THEY ARE PERFORMING.
- ALL MISCELLANEOUS NON-STAINLESS STEEL COMPONENTS NOT FULLY EMBEDDED IN CONCRETE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123-2017. WHERE COMPONENTS FORM PART OF A LARGER BUILT-UP FRAME, HATCH, OR OTHER PART, THE ENTIRE PART SHALL BE HOT-DIP GALVANIZED AFTER ASSEMBLY.

ADHESIVE POST-INSTALLED ANCHORS AND DOWELS

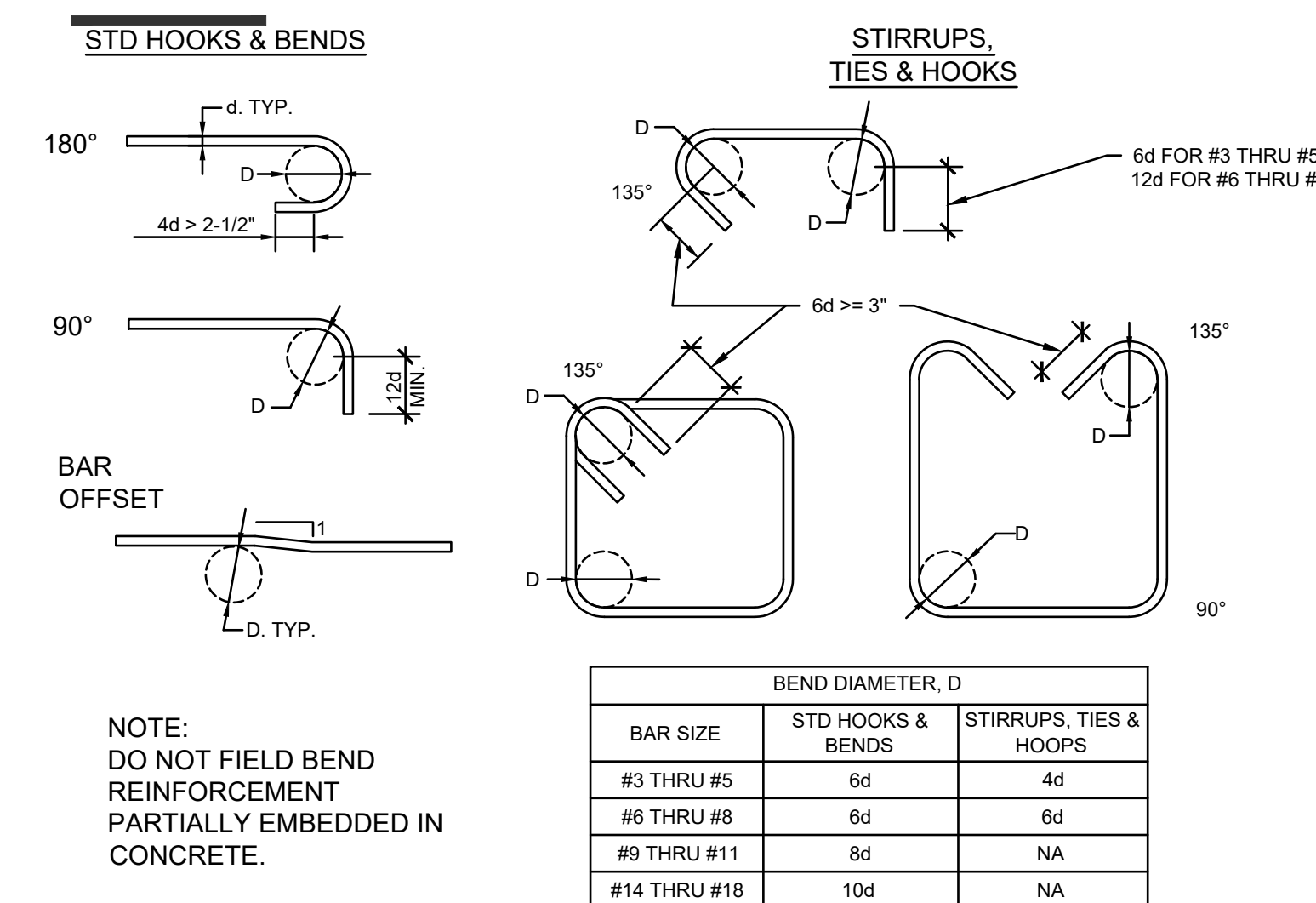
- POST-INSTALLED ADHESIVE ANCHORS INTO HARDENED CONCRETE SHALL SATISFY THE FOLLOWING REQUIREMENTS OF A PRE-QUALIFIED ADHESIVE ANCHORING SYSTEM.
- POST-INSTALLED ADHESIVE FOR DOWELS, THREADED RODS, OR OTHER ANCHORS INTO HARDENED CONCRETE SHALL BE ONE OF THE FOLLOWING PRODUCTS, OR A SUBMITTED-AND-APPROVED EQUIVALENT:
 - SIMPSON STRONG-TIE SET XP
 - HILTI HIT-HY 200-R
- EPOXY-SET ANCHORS AND HARDWARE SHALL CONFORM TO THE FOLLOWING:
 - STAINLESS STEEL THREADED RODS: ASTM F593, GRADE 316
 - ALL OTHER THREADED RODS: ASTM A36
 - REBAR DOWELS: ASTM A615, GRADE 60
- STAINLESS STEEL NUTS AND WASHERS SHALL BE USED WHERE STAINLESS STEEL THREADED RODS ARE SPECIFIED, AND SHALL BE OF EQUIVALENT GRADE AS THE THREADED RODS.
- INSTALL ANCHORS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- CAREFULLY DRILL THE HOLES FOR POST-INSTALLED ANCHORS SO THAT NO REINFORCING STEEL IS DAMAGED. IF REINFORCING STEEL IS ENCOUNTERED WHILE DRILLING A HOLE, ABANDON THAT HOLE, SHIFT THE ANCHOR LOCATION BY THREE HOLE DIAMETERS (ON CENTER) OR AS DETAILED BY THE APPLICABLE DRAWING, AND INFILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. NOTIFY SACSEWER OF THE PROPOSED REVISED ANCHOR BOLT LOCATION BEFORE INSTALLING ANCHOR IN A NEW LOCATION.

MECHANICAL POST-INSTALLED ANCHORS

- POST-INSTALLED MECHANICAL ANCHORS INTO HARDENED CONCRETE SHALL BE SCREW-TYPE ANCHORS. WEDGE-TYPE EXPANSION ANCHORS AND SLEEVE ANCHORS SHALL NOT BE USED.
- SCREW ANCHORS SHALL BE ONE OF THE FOLLOWING PRODUCTS, OR A SUBMITTED-AND-APPROVED EQUIVALENT:
 - SIMPSON STAINLESS-STEEL TITEN HD
 - HILTI KWIK HUS-HR
- INSTALL ANCHORS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- CAREFULLY DRILL THE HOLES FOR POST-INSTALLED ANCHORS SO THAT NO REINFORCING STEEL IS DAMAGED. IF REINFORCING STEEL IS ENCOUNTERED WHILE DRILLING A HOLE, ABANDON THAT HOLE, SHIFT THE ANCHOR LOCATION BY THREE HOLE DIAMETERS (ON CENTER) OR AS DETAILED BY THE APPLICABLE DRAWING, AND INFILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. NOTIFY SACSEWER OF THE PROPOSED REVISED ANCHOR BOLT LOCATION BEFORE INSTALLING THE NEW ANCHOR IN A NEW LOCATION.

STRUCTURAL TESTS AND SPECIAL INSPECTION

- STRUCTURAL TESTS AND INSPECTIONS SHALL BE MADE BY THE BUILDING OFFICIAL AND/OR SPECIAL INSPECTORS AS REQUIRED BY THE 2025 EDITION OF THE CALIFORNIA BUILDING CODE, AND AS REQUIRED BY THE BUILDING OFFICIAL. THE FOLLOWING MINIMUM SPECIAL INSPECTIONS SHALL BE MADE:
 - SPECIAL INSPECTION (CONTINUOUS) OF EPOXY-EMBEDMENT OF ALL DOWELS AND ANCHORS
 - SPECIAL INSPECTION OF PLACEMENT OF ALL REINFORCING STEEL PRIOR TO PLACEMENT OF CONCRETE
 - SPECIAL INSPECTION (CONTINUOUS) OF CONCRETE INSTALLATION
 - SPECIAL INSPECTION AND TESTING OF CONCRETE CYLINDERS
 - SPECIAL INSPECTION OF FILLET WELDS (INTERMITTENT OKAY)
 - SPECIAL INSPECTION (CONTINUOUS) OF REINFORCING STEEL COUPLERS
 - SPECIAL INSPECTION OF THREADED ROD COUPLERS (INTERMITTENT OKAY)
- CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING STRUCTURAL TESTS, SPECIAL INSPECTIONS, AND BUILDING DEPARTMENT INSPECTIONS.



NOTE: DO NOT FIELD BEND REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE.

1 TYPICAL REBAR BENDS
SCALE: N.T.S.



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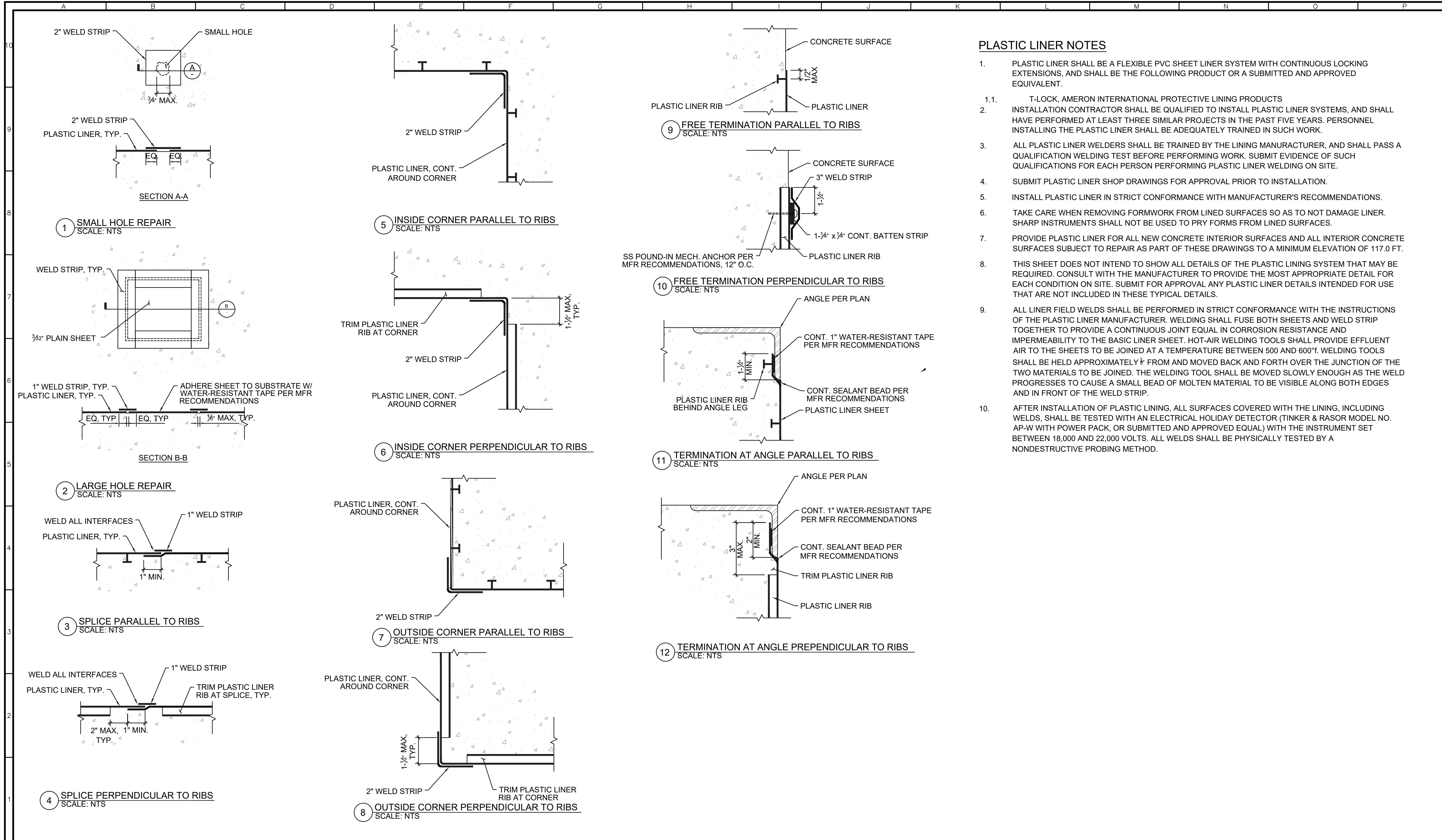
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8530 RFB NUMBER

SACRAMENTO AREA SEWER DISTRICT OF SACRAMENTO COUNTY, CALIFORNIA
ECHOWATER RESOURCE RECOVERY FACILITY PRIMARY REHABILITATION PROJECT PHASE 5: SLIDE GATE REPAIRS

PROJECT INFORMATION & NOTES

SCALE NO SCALE
DRAWING NUMBER S01
SHEET NUMBER 5 OF 10



PLASTIC LINER NOTES

1. PLASTIC LINER SHALL BE A FLEXIBLE PVC SHEET LINER SYSTEM WITH CONTINUOUS LOCKING EXTENSIONS, AND SHALL BE THE FOLLOWING PRODUCT OR A SUBMITTED AND APPROVED EQUIVALENT.
 - 1.1. T-LOCK, AMERON INTERNATIONAL PROTECTIVE LINING PRODUCTS
2. INSTALLATION CONTRACTOR SHALL BE QUALIFIED TO INSTALL PLASTIC LINER SYSTEMS, AND SHALL HAVE PERFORMED AT LEAST THREE SIMILAR PROJECTS IN THE PAST FIVE YEARS. PERSONNEL INSTALLING THE PLASTIC LINER SHALL BE ADEQUATELY TRAINED IN SUCH WORK.
3. ALL PLASTIC LINER WELDERS SHALL BE TRAINED BY THE LINING MANUFACTURER, AND SHALL PASS A QUALIFICATION WELDING TEST BEFORE PERFORMING WORK. SUBMIT EVIDENCE OF SUCH QUALIFICATIONS FOR EACH PERSON PERFORMING PLASTIC LINER WELDING ON SITE.
4. SUBMIT PLASTIC LINER SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.
5. INSTALL PLASTIC LINER IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. TAKE CARE WHEN REMOVING FORMWORK FROM LINED SURFACES SO AS TO NOT DAMAGE LINER. SHARP INSTRUMENTS SHALL NOT BE USED TO PRY FORMS FROM LINED SURFACES.
7. PROVIDE PLASTIC LINER FOR ALL NEW CONCRETE INTERIOR SURFACES AND ALL INTERIOR CONCRETE SURFACES SUBJECT TO REPAIR AS PART OF THESE DRAWINGS TO A MINIMUM ELEVATION OF 117.0 FT.
8. THIS SHEET DOES NOT INTEND TO SHOW ALL DETAILS OF THE PLASTIC LINING SYSTEM THAT MAY BE REQUIRED. CONSULT WITH THE MANUFACTURER TO PROVIDE THE MOST APPROPRIATE DETAIL FOR EACH CONDITION ON SITE. SUBMIT FOR APPROVAL ANY PLASTIC LINER DETAILS INTENDED FOR USE THAT ARE NOT INCLUDED IN THESE TYPICAL DETAILS.
9. ALL LINER FIELD WELDS SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE INSTRUCTIONS OF THE PLASTIC LINER MANUFACTURER. WELDING SHALL FUSE BOTH SHEETS AND WELD STRIP TOGETHER TO PROVIDE A CONTINUOUS JOINT EQUAL IN CORROSION RESISTANCE AND IMPERMEABILITY TO THE BASIC LINER SHEET. HOT-AIR WELDING TOOLS SHALL PROVIDE EFFLUENT AIR TO THE SHEETS TO BE JOINED AT A TEMPERATURE BETWEEN 500 AND 600°F. WELDING TOOLS SHALL BE HELD APPROXIMATELY 1/2" FROM AND MOVED BACK AND FORTH OVER THE JUNCTION OF THE TWO MATERIALS TO BE JOINED. THE WELDING TOOL SHALL BE MOVED SLOWLY ENOUGH AS THE WELD PROGRESSES TO CAUSE A SMALL BEAD OF MOLTEN MATERIAL TO BE VISIBLE ALONG BOTH EDGES AND IN FRONT OF THE WELD STRIP.
10. AFTER INSTALLATION OF PLASTIC LINING, ALL SURFACES COVERED WITH THE LINING, INCLUDING WELDS, SHALL BE TESTED WITH AN ELECTRICAL HOLIDAY DETECTOR (TINKER & RASOR MODEL NO. AP-W WITH POWER PACK, OR SUBMITTED AND APPROVED EQUAL) WITH THE INSTRUMENT SET BETWEEN 18,000 AND 22,000 VOLTS. ALL WELDS SHALL BE PHYSICALLY TESTED BY A NONDESTRUCTIVE PROBING METHOD.



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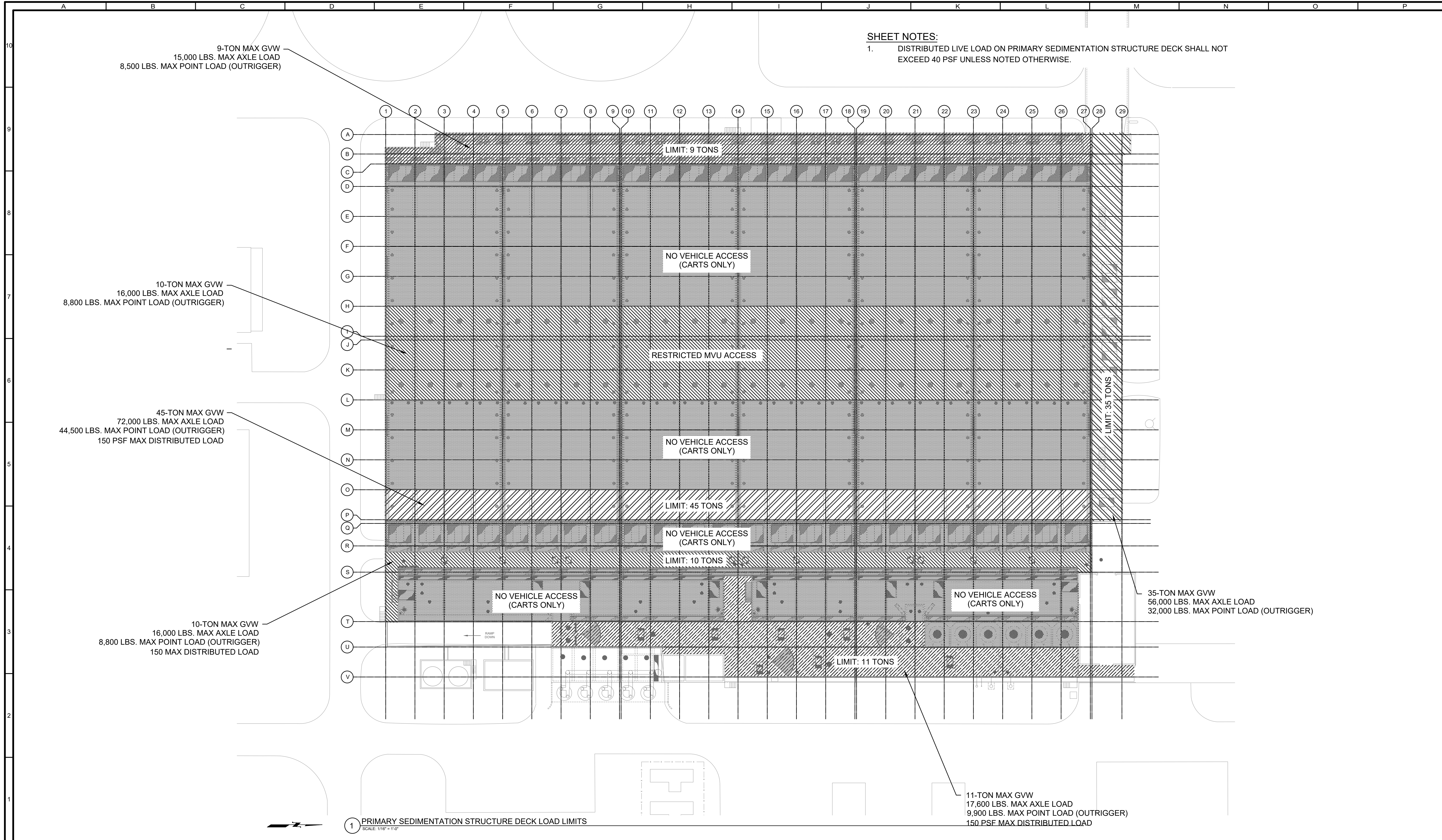
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SACRAMENTO AREA SEWER DISTRICT
OF SACRAMENTO COUNTY, CALIFORNIA

ECHOWATER RESOURCE RECOVERY FACILITY
PRIMARY DECK REHABILITATION PROJECT
PHASE 5: SLIDE GATE REPAIRS

TYPICAL PLASTIC LINER DETAILS

SCALE NO SCALE
DRAWING NUMBER S02
SHEET NUMBER 6 OF 10



SHEET NOTES:
 1. DISTRIBUTED LIVE LOAD ON PRIMARY SEDIMENTATION STRUCTURE DECK SHALL NOT EXCEED 40 PSF UNLESS NOTED OTHERWISE.

1 PRIMARY SEDIMENTATION STRUCTURE DECK LOAD LIMITS
 SCALE: 1/16" = 1'-0"



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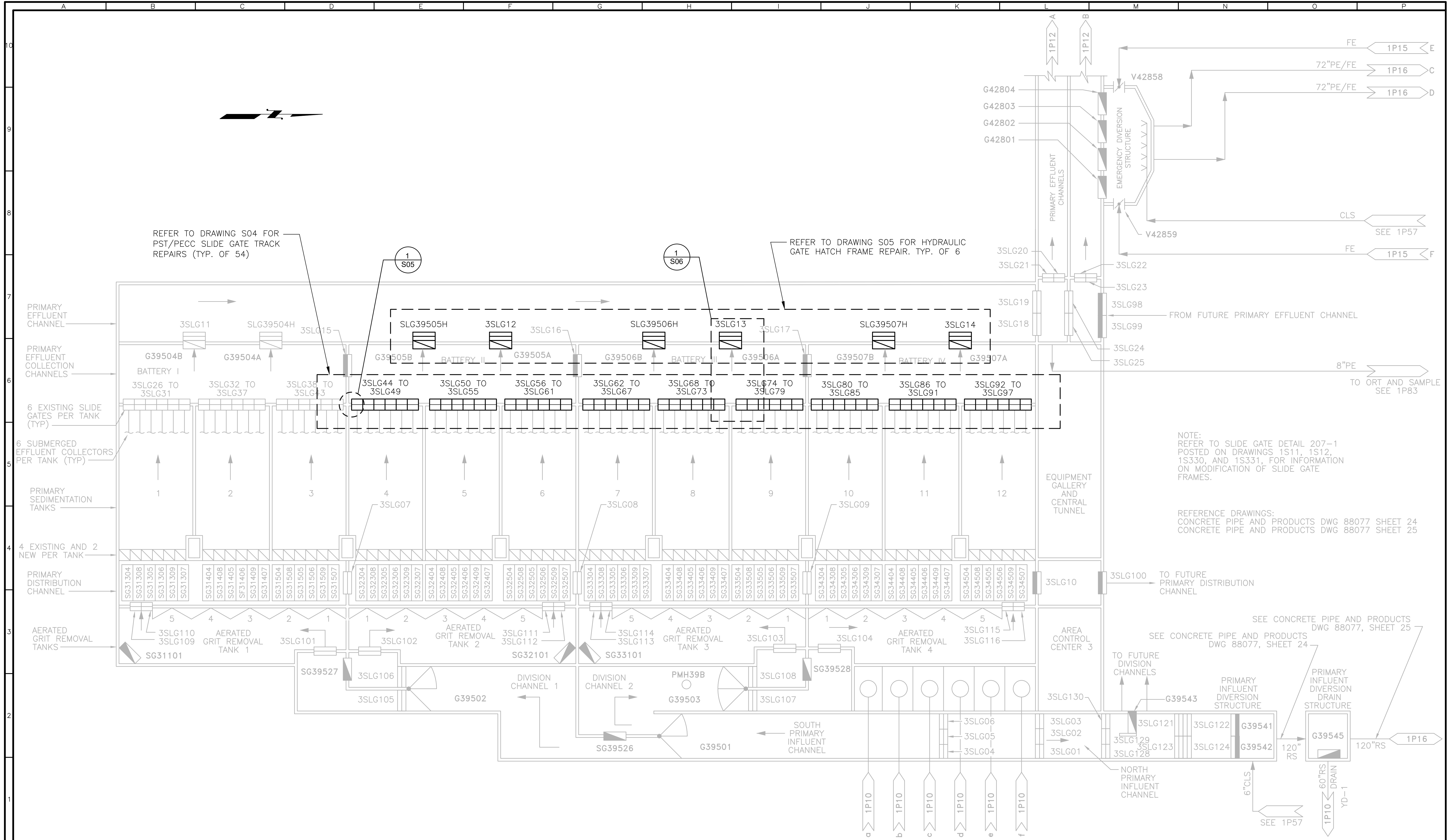
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 PRIMARY DECK REHABILITATION PROJECT
 PHASE 5: SLIDE GATE REPAIRS

PRIMARY DECK LOAD LIMITS

SCALE
 NO SCALE
 DRAWING NUMBER
 S03
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 7 OF 10



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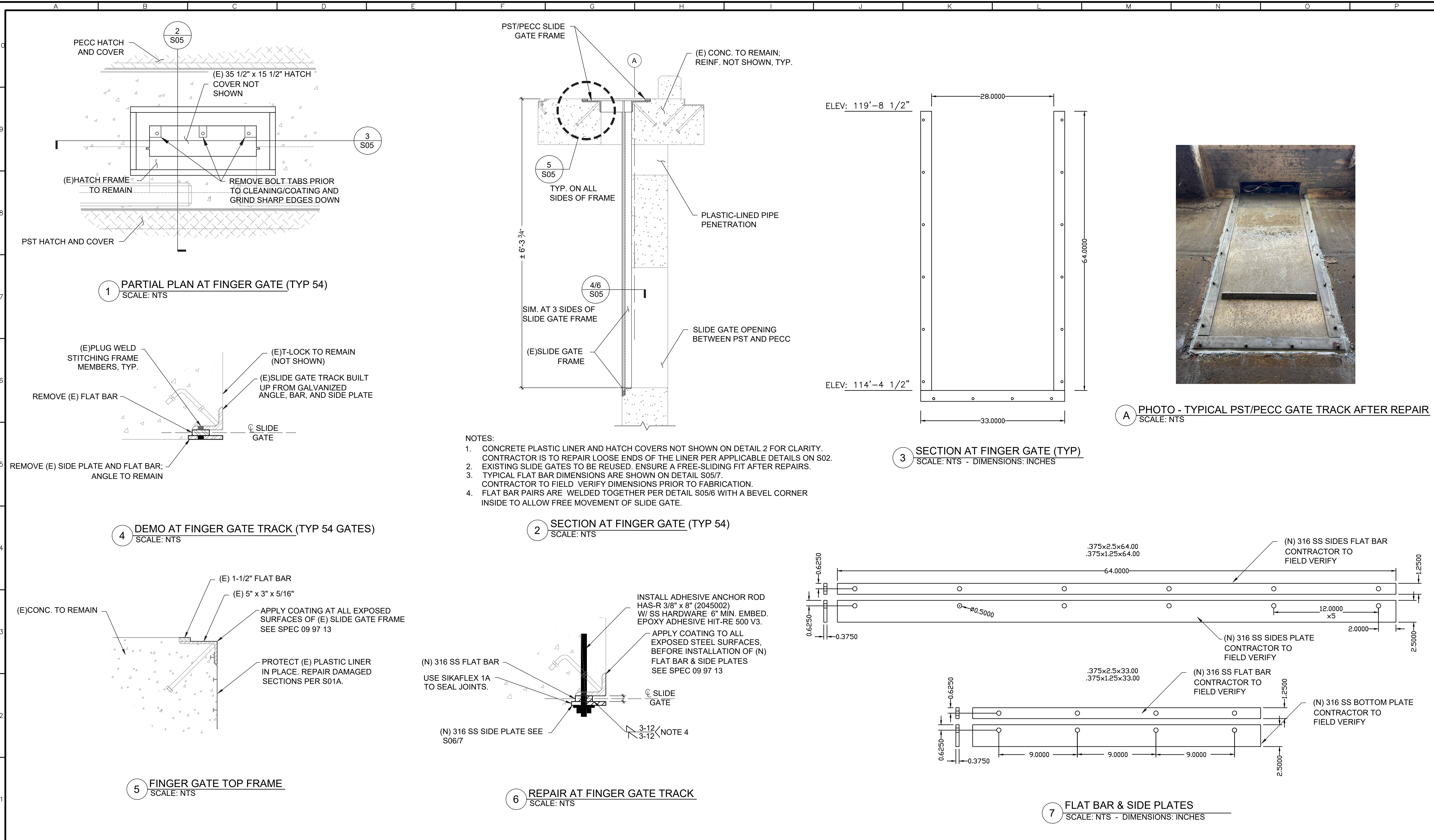
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ECHOWATER RESOURCE RECOVERY FACILITY
PRIMARY DECK REHABILITATION PROJECT
PHASE 5: SLIDE GATE REPAIRS

TOP OF SLAB PLAN

SCALE
NO SCALE
DRAWING NUMBER
S04
SHEET NUMBER
8 OF 10



NO.	DESCRIPTION	ENGR INIT	DISTRICT APPROVAL	
			BY	DATE

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)
FILE <u>FILE NAME</u>
DRAWN <u>JM</u>
DESIGNED <u>JM</u>
CHECKED <u>GR</u>

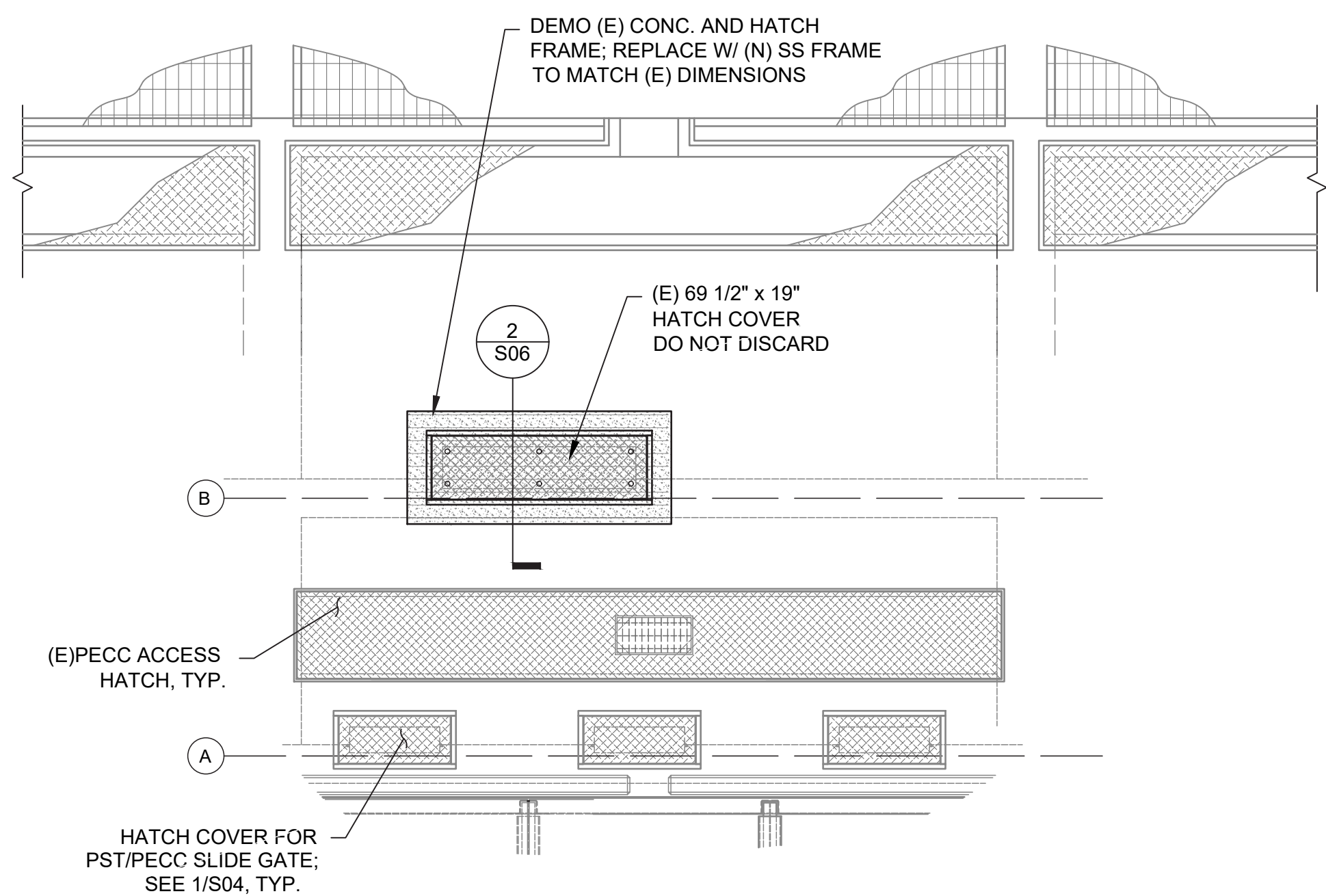
8530
RFB NUMBER

SACRAMENTO AREA SEWER DISTRICT
OF SACRAMENTO COUNTY, CALIFORNIA
ECHOWATER RESOURCE RECOVERY FACILITY
PRIMARY DECK REHABILITATION PROJECT
PHASE 5: SLIDE GATE REPAIRS

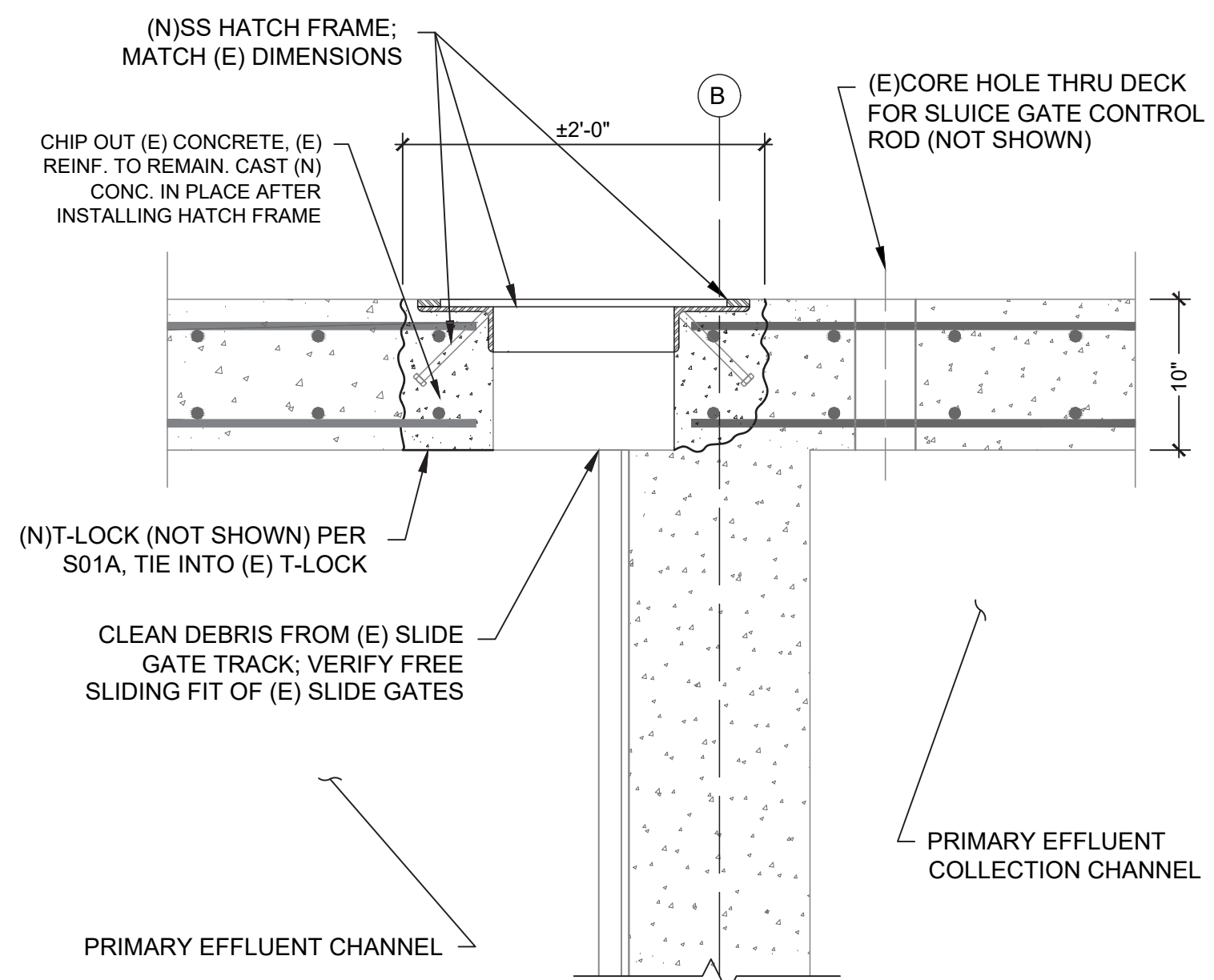
PST/PECC SLIDE GATE TRACK REPAIRS

SCALE NO SCALE
DRAWING NUMBER S05
SHEET NUMBER 9 OF 10

OPTIONAL FULL REPAIR (TYPICAL OF 1)



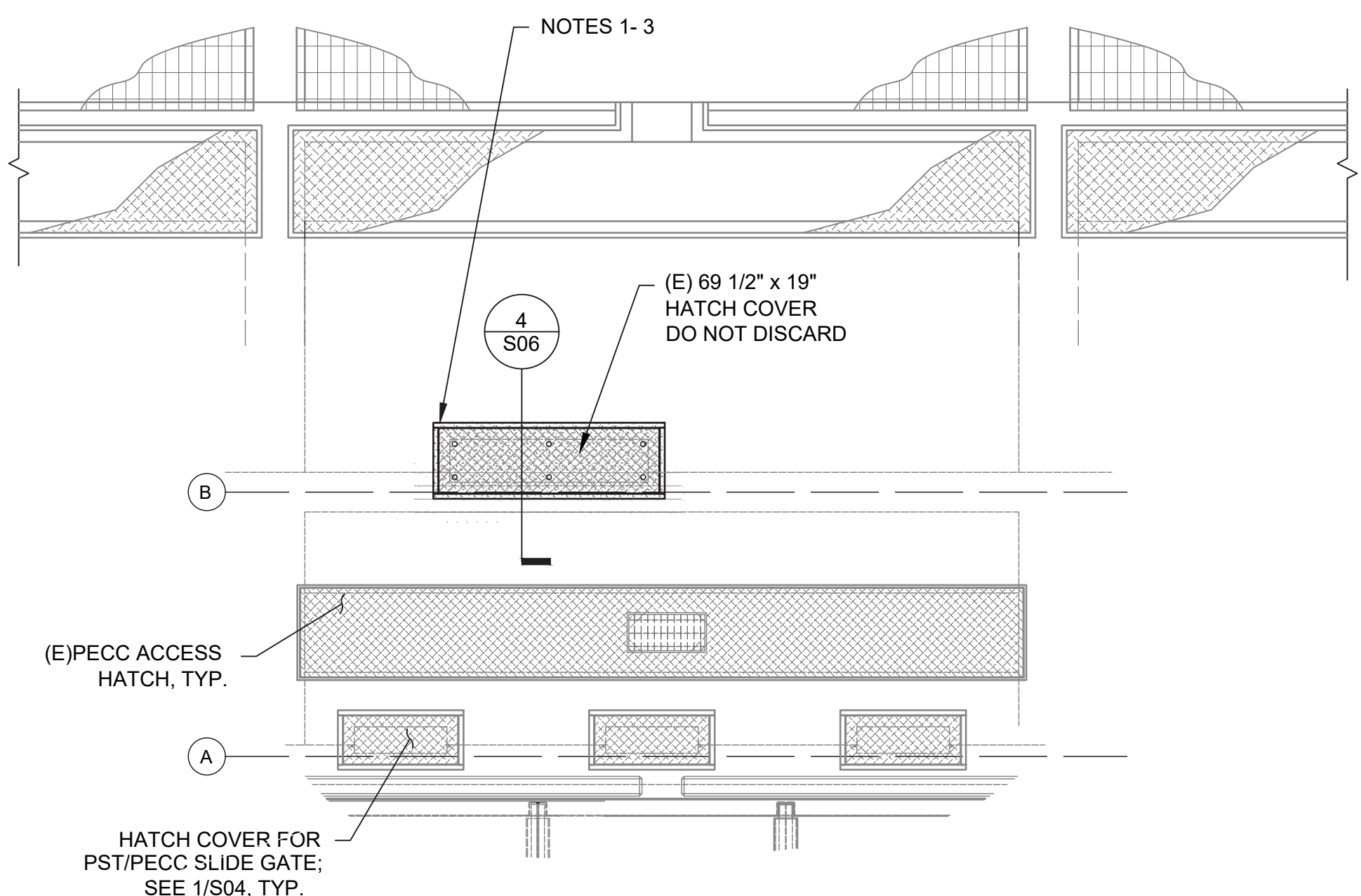
1 PARTIAL PLAN NEAR HYDRAULIC SLUICE GATE
SCALE: NTS



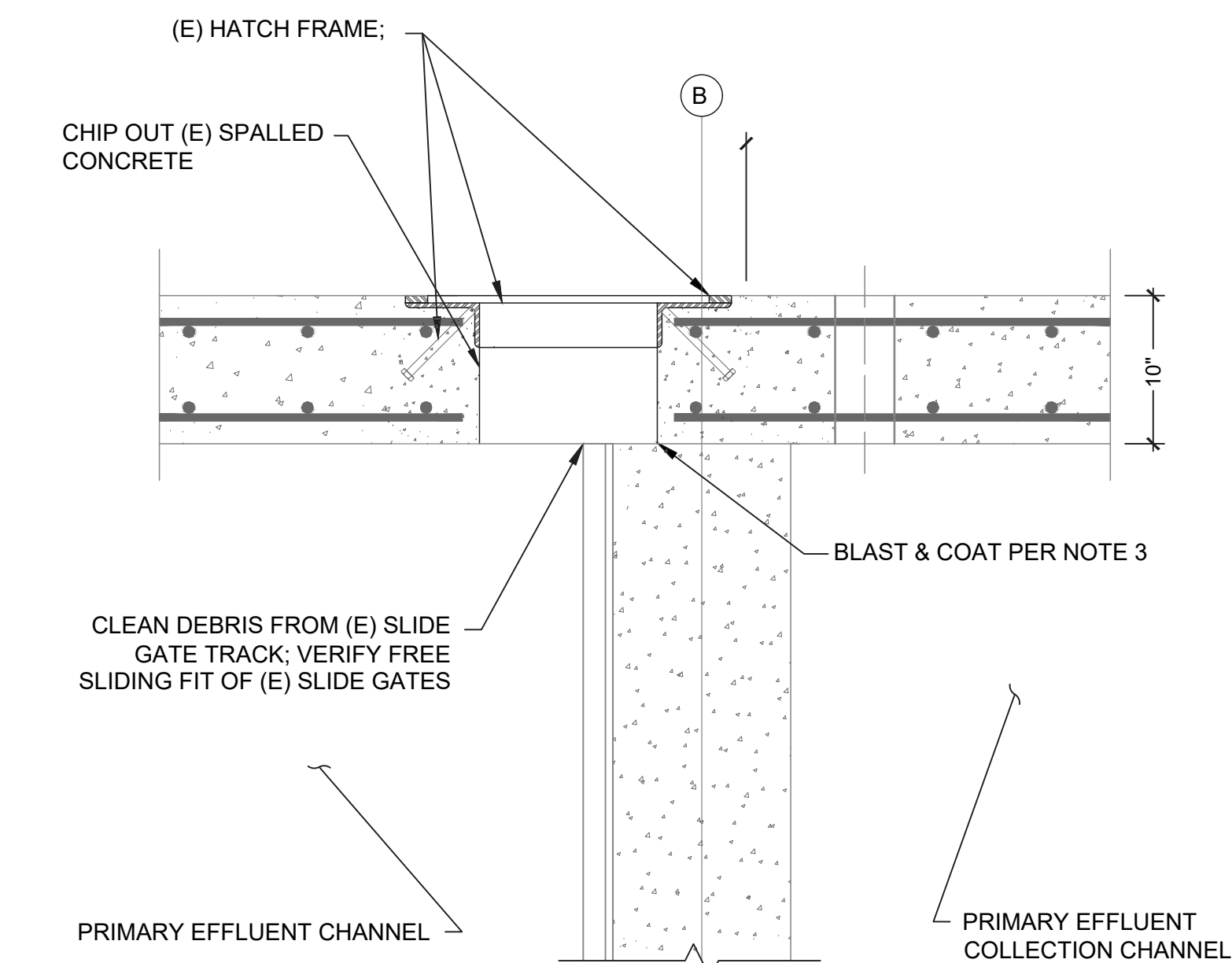
2 SECTION AT HYDRAULIC SLUICE GATE
SCALE: NTS

- NOTES:
1. PLASTIC LINER AND HATCH COVERS NOT SHOWN.
 2. EXISTING SLIDE GATES TO BE REUSED. ENSURE A FREE-SLIDING FIT AFTER REPAIRS.

PARTIAL REPAIR (TYPICAL OF 6)

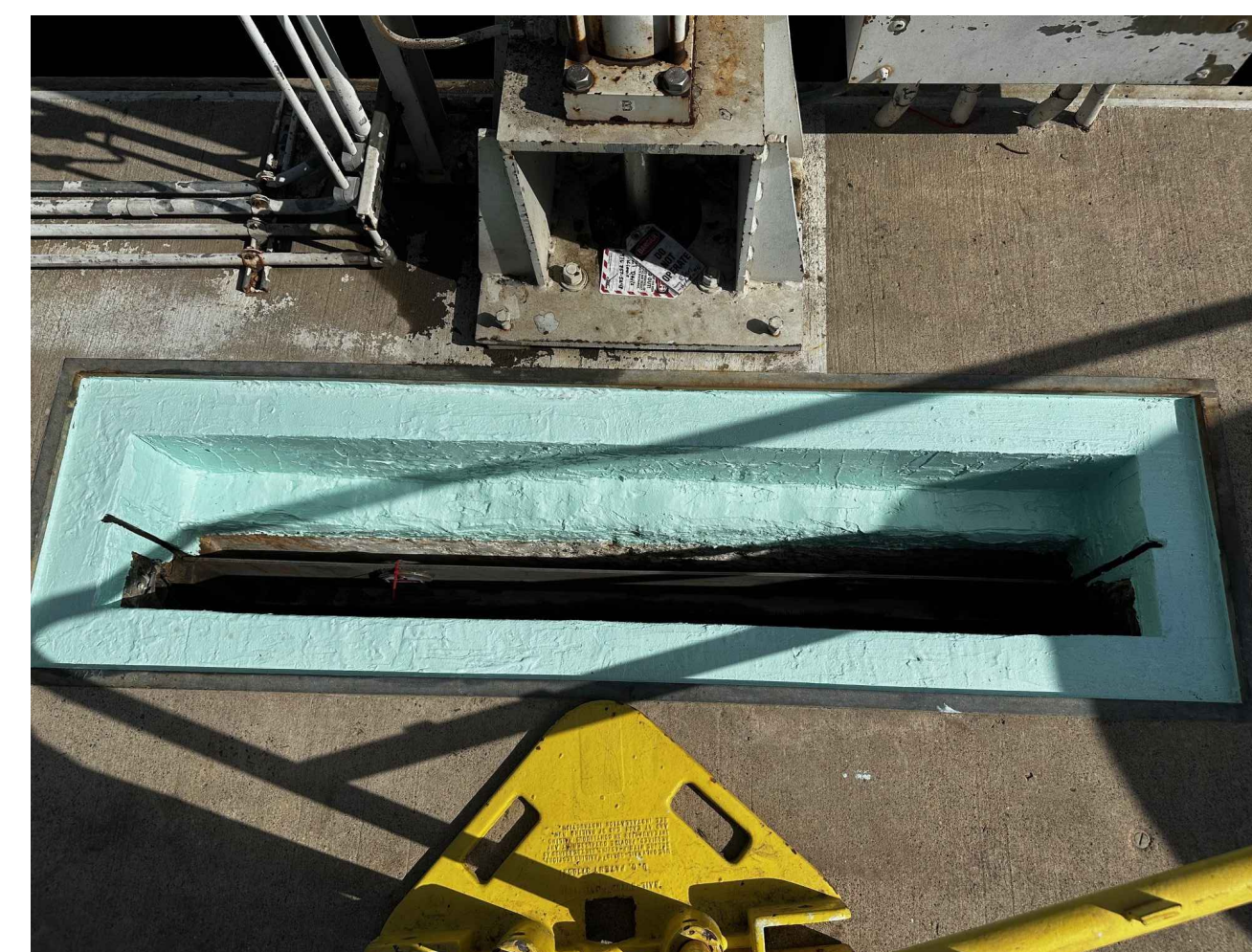


3 PARTIAL PLAN NEAR HYDRAULIC SLUICE GATE
SCALE: NTS



4 SECTION AT HYDRAULIC SLUICE GATE
SCALE: NTS

- NOTES:
1. CHIP AWAY ANY EXISTING SPALLED CONCRETE AROUND HATCH FRAME.
 2. CUT AWAY ANY LOOSE T-LOCK LINER.
 3. BLAST SLIDE GATE TRACK, CONCRETE, & FRAME TO SSPC SP-10 AND COAT WITH SUPER HIGH VISCOSITY NEOPOXY NPR-5305 TO 10" BELOW TOP OF DECK. SEE PHOTO A FOR TYPICAL COATING APPLICATION.



A PHOTO - TYPICAL NEOPOXY COATING
SCALE: NTS



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FILE FILE NAME

DRAWN JM

DESIGNED JM

CHECKED GR

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SACRAMENTO AREA SEWER DISTRICT OF SACRAMENTO COUNTY, CALIFORNIA

ECHOWATER RESOURCE RECOVERY FACILITY

PRIMARY DECK REHABILITATION PROJECT

PHASE 5: SLIDE GATE REPAIRS

HYDRAULIC GATE HATCH FRAME REPAIR

SCALE NO SCALE
DRAWING NUMBER S06
SHEET NUMBER 10 OF 10