

SCREW PRESS SLUDGE DEWATERING PROJECT

FOR

COUNTY SERVICE AREA (CSA) 70 – GLEND HELEN DEVORE, CALIFORNIA

WARNING: ALL INDIVIDUALS INTERESTED IN BIDDING ON THIS PROJECT MUST OBTAIN THE FINAL PLANS AND SPECIFICATIONS FROM THE DEPARTMENT MANAGING THE PROJECT OR AS OTHERWISE STATED IN THE ADVERTISEMENT FOR BIDS FOR THE PROJECT. DO NOT USE THE PLANS AND SPECIFICATIONS POSTED ON THE CLERK OF THE BOARD'S WEBSITE FOR BIDDING THE PROJECT.



SECTION G

CONTRACT DRAWINGS

SCREW PRFSS SLUDGE DEWATERING PROJECT

FOR

COUNTY SERVICE AREA (CSA) 70 – GLEND HELEN DEVORE, CALIFORNIA

PROJECT NO. 30.30.0028



DISTRICTS SPECIAL SAN BERNARDINO OF PUBLIC WORKS Ю COUNT DEPARTMENT

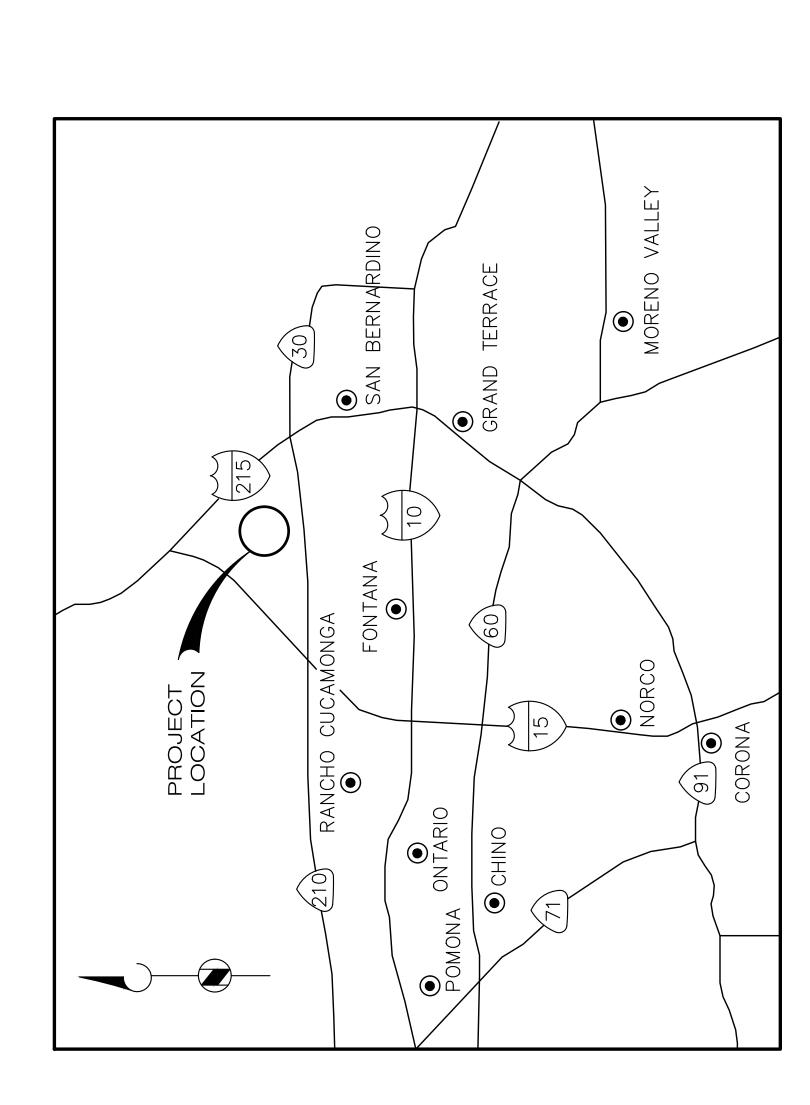
CONSTRUCTION F O R DOCUMENTS

DEWATERING YOLING REC SLUDGE TER WASTEWA PRESS SCREW LORTI-エ CHEEK

DECEMBER 2020

DRAWINGS

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SOLIDS PROCESS FLOW DIAGRAM

PROCESS FLOW DIAGRAM

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SYMBOLS AND ABBREVIATIONS

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COVER, LOCATION AND INDEX

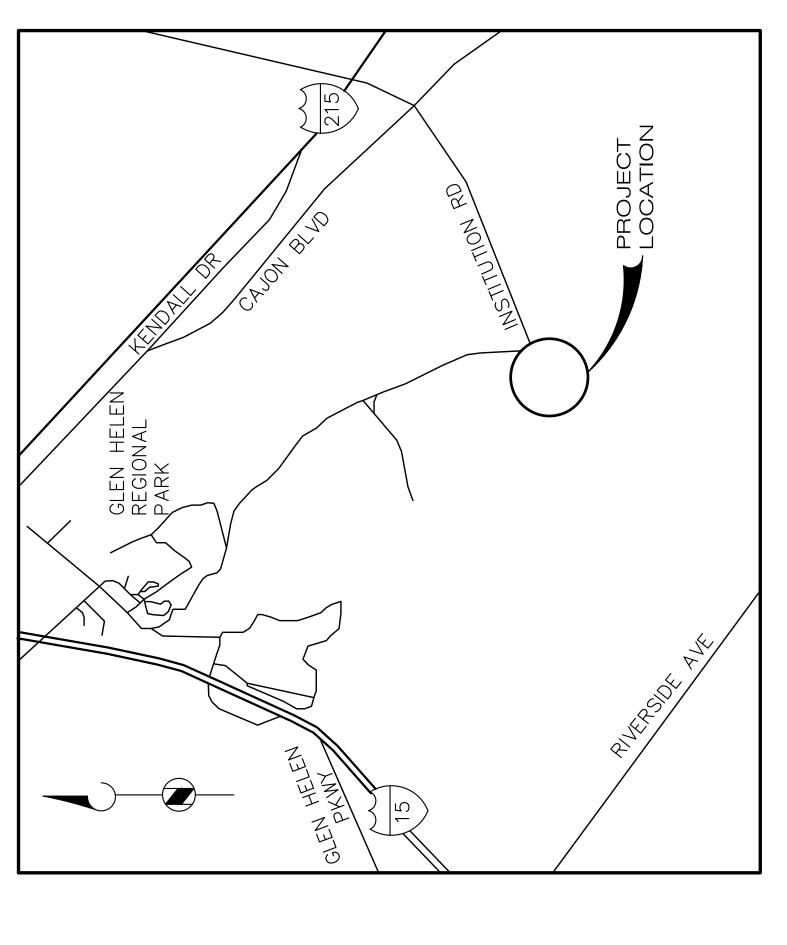
GENERAL PROJECT NOTES

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LOCATION

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SCREW PRESS CANOPY AREA LIGHTING PLAN

SCREW PRESS AREA ELECTRICAL PLAN

ELECTRICAL SITE PLAN

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RAS/WAS MOV ELECTRICAL AREA PLAN

CONDUIT SCHEDULE AND ONE-LINE

ELECTRICAL DETAILS

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				.v. DATE	
				DESCRIPTION	
				APF	

COUNTY OF SAN BERNARDII	DEPARTMENT OF PUBLIC WORKS - SPECIAL DI	222 WEST HOSPITALITY LANE, 2ND FLOOR	SAN BERNARDINO, CA 92415-0450	0088-986-3

KPK DESIGNED

KPD CHECKED

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SDINO	AL DISTRICTS	LOOR	50

2/28/2021	DATE 12/28/20	DATE	
Royal Park	APPROVED Melandar	PROJECT ENGINEER	

DRAWING NUMBER	SHEET 1	SCALE:
LYTLE CREEK NORTH	SLUDGE DEWATERING	COVER, LOCATION, AND INDEX

OF 26

DATE: DEC 2

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GENERAL NOTES

- EXISTING UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE, AND OVERHEAD) ARE INDICATED ONLY TO THE EXTENT THAT SUCH INFORMATION WAS KNOWN BY THE ENGINEER IN PREPARING THE DRAWINGS. THE LOCATIONS, CONFIGURATIONS, AND ELEVATIONS OF SUBSURFACE UTILITIES ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, THE ENGINEERING INVESTIGATIONS, LOCATION, AND DESIGNATION OF SUBSURFACE UTILITIES SHOWN ON THESE PLANS HAVE BEEN PERFORMED TO QUALITY LEVEL C IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRINCIPLES AND PRACTICES AS OUTLINED IN ASCE STANDARD GUIDELINE CI/ASCE 38-02. THE UNDERGROUND UTILITIES SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. ADDITIONAL UTILITY LINES MAY BE PRESENT ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, IDENTIFYING, AND PROTECTING ALL BURIED UTILITIES AND UNDERGROUND STRUCTURES. EXISTING UTILITIES DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REPAIRED TO AS GOOD OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICT OR UTILITIES NOT SHOWN ON THE PLANS.
- MATERIAL, SIZE, AND DEPTH OF ALL CROSSINGS AND CONNECTING HAND OR HYDRO—VAC METHODS. CONTRACTOR TO PROVIDE SCALED, TION ACTIVITIES. PAY ITEMS FOR PIPELINE ADJUSTMENTS ARE PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY THE LOCATION, MUTILITIES REQUIRED TO COMPLETE THE WORK. UTILITY INVESTIGATION SHALL BE COMPLETED BY DETAILED, UTILITY CONFLICT FIELD NOTES AS CONDITION PRECEDENT TO PAYMENT FOR MOBILIZA INCLUDED IN THE BID FORMS IF REQUIRED IN THE ENGINEER'S SOLE OPINION. $\vec{\alpha}$
- PROCEEDING CONTRACTOR SHALL LOCATE AND PROTECT ALL SURVEY POINTS AND POTHOLE ALL SUBSURFACE UTILITIES AND POINTS OF CONNECTION NOTED ON THE PLANS BEFORE STARTING WORK, SUBMIT A RECORD OF FIELD VERIFICATION PRIOR TO SUBMITTAL OF MAJOR EQUIPMENT SHOP DRAWINGS AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL FIELD VERIFY THE CONDITION AND DIMENSIONS OF EXISTING STRUCTURES AND UTILITIES TO BE MAINTAINED. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE IS A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONSTRUCTION BEFORE PROCEED WITH WORK. Б.
- MITH TO SAN BERNARDINO COUNTY'S SECURITY POLICY REFER TO CONTRACT SHALL COORDINATE THE LOCATION OF PARKING AND STORAGE AREAS MATERIALS SHALL BE RESTRICTED TO AGREED UPON AREAS. ACCESS CONTROL: ALL CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE SUBJECT GENERAL CONDITION 3.13.3; SEE SUPPLEMENTAL GENERAL PROVISIONS. THE CONTRACTOR THE OWNER'S REPRESENTATIVE CONTRACTOR PARKING AND STORAGE OF EQUIPMENT AND
- ALL WORK WILL BE PERFORMED INSIDE SAN BERNARDINO COUNTY—CONTROLLED ACCESS AREAS; ADDITIONAL SECURITY FENCING IS NOT REQUIRED BY CONTRACT BUT MAY BE INSTALLED AT CONTRACTOR'S COST. CONTRACTOR MAY PROVIDE TEMPORARY FENCING AS NECESSARY FOR CONSTRUCTION OPERATIONS. CONSTRUCTION ACTIVITY LIMITS ACTIVITIES SHALL REMAIN WITHIN THE DESIGNATED WORK AREA LIMITS FOR THIS PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATION, STOCKPILED EXCAVATED MATERIAL, BACKFILL MATERIAL, AND PIPE MATERIAL. DAMAGE CAUSED BY CONSTRUCTION ACTIVITY OUTSIDE THE DESIGNATED WORK AREA LIMITS SHALL BE PAID FOR AND REPLACED OR RECONSTRUCTED TO PRE—CONSTRUCTION CONDITIONS BY THE CONTRACTOR.
- CONTRACTOR SHALL REESTABLISH PRE—CONSTRUCTION GROUND ELEVATIONS IN AREAS WHERE GRADING IS NOT DEFINED. 6

E CONFORMING TO AWWA C 151, MINIMUM PRESSURE CLASS 350. BURIED FITTINGS TO BE MECHANICAL JOINT (MJ); PIPING SHALL BE LINED WITH MIN, 40—MIL PROTECTO 401 CERAMIC EPOXY.

EXPOSED-SCH 80 GALVANIZED STEEL PIPE WITH THREADED FITTINGS

PIPING DESIGNATED OR REQUIRED TO BE ABANDONED SHALL BE CUT, DRAINED, AND OPEN ENDS CAPPED OR PLUGGED. ANY EXPOSED PIPING TO BE COMPLETELY OVED TO A MINIMUM DEPTH OF 24" BELOW FINISHED GRADE.

ALL PIPING REMOVED

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ALL TRENCHES UNDER OR WITHIN 5 FEET OF PAVEMENT OR STRUCTURES TO BE BACKFILLED IN MAXIMUM 8-INCH LIFTS COMPACTED TO 95% STANDARD PROCTOR DENSITY; TRENCHES IN OTHER AREAS TO BE COMPACTED TO THE DENSITY OF THE ADJACENT, UNDISTURBED SOIL.

UNLESS OTHERWISE NOTED, ALL PIPE PROJECTIONS THROUGH CONCRETE STRUCTURES SHALL HAVE A WALL FLANGE. ALL WALL FLANGES SHALL BE CAST—IN—PLACE WITH STRUCTURAL CONCRETE OR GROUTED IN BLOCK—OUTS WITH NON—SHRINK GROUT.

ALL UNDERGROUND NUTS AND BOLTS MUST BE 304 STAINLESS STEEL. ALL ABOVE GROUND NUTS AND BOLTS MUST BE ZINC PLATED OR STAINLESS STEEL, UNLESS OTHERWISE SPECIFIED. ALL DISSIMILAR PIPE, BOLT AND NUT MATERIAL MUST BE INSTALLED WITH INSULATION KITS.

ALL BURIED GALVANIZED STEEL PIPE SHALL BE WRAPPED WITH 3M COMPANY 0.020—INCH—THICK NO. 51 "SCOTCHWRAP" VINYL PLASTIC TAPE, HALF LAPPED TO GIVE DOUBLE THICKNESS WRAP. REMOVE ALL OIL, GREASE AND DIRT FROM PIPE WITH A SUITABLE SOLVENT, AND CLEAN AND DRY BEFORE WRAPPING.

AND OPERATIONS OF THE UTILITIES WITHIN THE PROJECT SITE

CONTRACTOR IS RESPONSIBLE FOR THE

BE

ABANDONED PREVIOUSLY IS NO LONGER IN SERVICE. LINES IN SERVICE SHALL

10.

INSULATE ALL EXPOSED PIPING SUBJECT TO FREEZING, 6 INCH DIAMETER AND SMALLER WITH 2" THICK FIBERGLASS INSULATION JACKET WITH REINFORCED VAPOR RETARDER FACING AND FACTORY APPLIED LONGITUDINAL ACRYLIC ADHESIVE CLOSURE SYSTEM, J.M. MICRO—LOK OR EQUAL. INSTALL IN ACCORDANCE WITH MFR'S RECOMMENDATIONS. ALL OUTDOOR INSULATION AND INDOORS UP TO 8' A.F.F. SUBJECT TO IMPACT DAMAGE TO BE JACKETED WITH 20 GA. ALUMINUM SHEET METAL.

UNLESS OTHERWISE NOTED, ALL POTABLE AND NON—POTABLE WATER MAIN PIPING 4—INCHES IN DIAMETER AND LARGER SHALL BE PVC CONFORMING TO AWWA C 900, CLASS 150 (DR 18), WITH MJ DUCTILE IRON FITTINGS. ALL RISERS TO CONNECT TO FACILITIES AT OR ABOVE GRADE AND EXPOSED PIPING TO BE DUCTILE IRON OR WELDED STEEL.

) BE AS FOLLOWS: 80 PVC WITH SOLVENT WELD FITTINGS;

UNLESS OTHERWISE NOTED, YARD (PLANT) PIPING TO MINOR WATER LINES (<4" DIAMETER): BURIED—SCH & GRAVITY SEWERS: PVC SDR—26.

WHERE SO DESIGNATED, PROVIDE DUCTILE IRON PIPE EXPOSED FITTINGS TO BE FLANGED (FL). RAS/WAS P

MAINTAIN A MINIMUM OF SIX (6) INCHES CLEARANCE PROPOSED BURIED UTILITY OR STRUCTURE.

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PIPING NOTES

BETWEEN THE OUTSIDE OF ALL PROPOSED PIPING, FITTINGS OR APPURTENANCES AND ANY OTHER EXISTING OR

BE REMOVED MAY NOT BE SHOWN. WHERE PIPING TO BE ABANDONED MUST REMAIN IN SERVICE UNTIL CONFLICT WITH NEW PIPING, TEMPORARILY RELOCATE OR PROVIDE SUITABLE BYPASS TO MAINTAIN PLANT

LINES IN SERVICE

CONTRACTOR SHALL PLAN, STAGE, AND PROVIDE ALL FACILITIES NECESSARY TO ASSURE CONTINUOUS OPERATION OF ALL PLANT FACILITIES THROUGHOUT THE CONSTRUCTION, STARTUP AND COMMISSIONING OF THE FACILITIES BE CONSTRUCTED AS PART OF THIS PROJECT.

OPERATIONS)

MOPO (MAINTENANCE OF PLANT

CONTRACTOR SHALL VERIFY THAT PIPING SHOWN TO BE ABANDONED OR AS ABANDONED PREVIOUSLY IS NO LONGER IN SERVICE. MAINTAINED UNTIL NO LONGER REQUIRED BY THE OWNER.

IN NO CASE SHALL A DOWNTIME OF MORE THAN 4-HOURS BE ALLOWED.

EXISTING PIPES TO BE ABANDONED IN PLACE OR COMPLETION OF OTHER PHASES OF WORK, AND IF OPERATIONS.

- PER COUNTY STANDARD DETAILS AND SPECIFICATIONS. L CONSTRUCTION LOCATIONS ON D OTHERWISE INDICATED ON THE DRAWINGS OR SPECIFIED, CIVIL SHALL APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC L
- CONTRACTOR SHALL COMPLY WITH LOCAL CONSTRUCTION STORM WATER DISCHARGE REGULATIONS AND REQUIREMENTS. $\dot{\infty}$
- SMALLER THAN 12" SHALL HAVE A MINIMUM COVER OF 30" UNLESS OTHERWISE NOTED. PIPES SHALL BE ROUTED AS SHOWN UNLESS ADJUSTMENTS ARE SARY TO AVOID EXISTING PIPES, CONDUITS, BURIED STRUCTURES, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL FITTINGS AND ADAPTERS RED TO MAKE THE ADJUSTMENTS AT THE UNIT BID PER ADJUSTMENT AS DESCRIED IN THE BIDDING DOCUMENTS. PIPES SMA NECESSAR' REQUIRED 6
- CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT FROM DAMAGE EXISTING FACILITIES AND UTILITIES SHOWN OR NOT SHOWN IN ARE TO REMAIN IN PLACE. ALL FACILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE INAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION. ORIGINAL OR 10.
- SHALL PROVIDE ALL FITTINGS, ADAPTERS, AND APPURTENANCES ORTED COMPLETE AND WORKING SYSTEM. CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING PIPE, EQUIPMENT, ETC. AS REQUIRED AND REQUIRED TO MAKE THE CONNECTIONS. PROVIDE ALL SUPPORTS REQUIRED FOR A RIGIDLY SUPPORT
- ALL VALVE BOXES, VAULTS, PULL BOXES, AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR DIRECTED. MANHOLES IN OPEN FIELDS SHALL TWELVE INCHES ABOVE FINISHED GRADE AND VAULTS SHALL BE SIX INCHES ABOVE FINISHED GRADE. ADJUST BE SET 12.

13.

- OR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL ABIDE BY SHOWN TO BE ABANDONED OR AS BY THE OWNER. CONTRACTOR SHALL VERIFY THAT PIPING MAINTAINED UNTIL NO LONGER REQUIRED
- SPECIAL PRECAUTIONS IN THE VICINITY OF ANY UNDERGROUND ANY REQUIREMENT BY THE OWNER OF THE ELECTRIC LINES. THE CONTRACTOR SHALL TAKE NATIONAL ELECTRIC CODE AND 14.

- AN≺ N O CONFLICT REQUIREMENTS SPECIAL GOVERN. VEVER WILL (ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE COUNTY OF SAN BERNARDING GRADING A EXCAVATION REGULATIONS AND GRADING MANUAL THE COUNTY OF SAN BERNARDINO STANDARD PLANS SPECIAL REQUIREMENTS OF THE GRADING PERMIT THE CALIFORNIA BUILDING CODE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2013 CALIFORNIA SUPPLEMENT WHENEY THE OWNERS REPRESENTATIVE WILL DETERMINE WHICH SPECIAL REQUIREMENTS AND/OR CODE WI
- THE OWNERS REPRESENTATIVE APPROVED BY EXPORT SOIL MUST GO TO A LEGAL DUMPSITE OR TO A LEGAL PERMITTED SITE 16.
- PUBLIC 出 ANY DEBRIS IN PROJECT. C RIGHTS-OF-WAY DURING THE ADING INSPECTOR. PUBLI THE PU B≺ NIHLIM SSARY NO DIRT, ROCK OR CONSTRUCTION MATERIAL MAY BE TRACKED OR DROPPED RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY AND/OR AS DEEMED NECES 9 8

FOR BID"

STORMWATER QUALITY AND EROSION CONTROL

- ORNIA'S GENERAL PERMIT FOR STORM WATER DISCHARGES DING THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER THE GENERAL PERMIT. A COPY OF THE GENERAL PERMIT IS REQUIRED RAL PERMIT. A COPY OF THADDITIONAL REQUIREMENTS. PREPARE AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN TO COMPLY WITH CALIFORNIA'S GE ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES (GENERAL PERMIT), INCLUDING THE S NO. 2009—0009—DWQ (AS AMENDED BY ORDERS 2010—0014—DWQ AND 2012—0006—DWQ) FOR THE GENERATO BE KEPT ON THE PROJECT SITE AT ALL TIMES. REFER TO CONTRACT GENERAL CONDITION 3.15.3 FOR A
- ESS THAN 30—DAYS PRIOR TO COMMENCING ANY WORK AT THE SITE. THE WORK
 TE A STORM WATER POLLUTION PREVENTION PLAN, INSPECT THE EROSION CONTROL
 N GOOD WORKING ORDER IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS DURING
 EROSION CONTROL DEVICES FROM THE SITE. CONTRACTOR SHALL PREPARE AND SUBMIT AN EROSION CONTROL PLAN NOT LESS INCLUDES ALL MATERIALS, LABOR, AND MAINTENANCE NECESSARY TO COMPLETE A DEVICES FOR EFFECTIVENESS AND MAINTAIN THE EROSION CONTROL DEVICES IN GOOTHE CONSTRUCTION UNTIL THE SITE IS STABILIZED AND THEN TO REMOVE THE EROSI
- STORM WATER POLLUTION PREVENTION APPURTENANCES DURING THE DURATION OF THE PROJECT. CONTRACTOR SHALL MAINTAIN ALL EROSION AND 里

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- CONTRACTOR SHALL CONFORM ACTIVITIES TO THE SWPPP INCLUDED IN THE PLANS, INCLUDING INSTALLING, MAINTAINING INSPECTIONS OF POLLUTION CONTROLS, SPRINKLING FOR DUST CONTROL, MAINTAINING SPILL RESPONSE EQUIPMENT ON—SITE, AND "GOOD HOUSEKEEPING". POLLUTION CONTROLS MAY INCLUDE SILT FENCES (OR EROSION CONTROL MATS), ROCK FILTER DAMS, STABILIZED CONSTRUCTION ENTRANCE, SPRINKLING FOR DUST CONTROL.
- WORK CONTRACTOR'S THE OCCASIONED DAMAGE ALL FOR SOLELY RESPONSIBLE CONTRACTOR IS 5

DESCRIPTION DATE REV. Kimley» Horn

DEPARTMENT OF PUBLIC WORKS - SPECIAL DISTRICTS COUNTY OF SAN BERNARDINO 222 WEST HOSPITALITY LANE, 2ND FLOOR SAN BERNARDINO, CA 92415-0450 0088-986-606

KPK DESIGNED

RKR DRAWN

APP.



APPROVE PROJECT

2/28/2021	DATE	12/28/20	DATE	DATE
Should the	ED	Mela Yak	r engineer	FNDFD

SHEET 2 OF 26

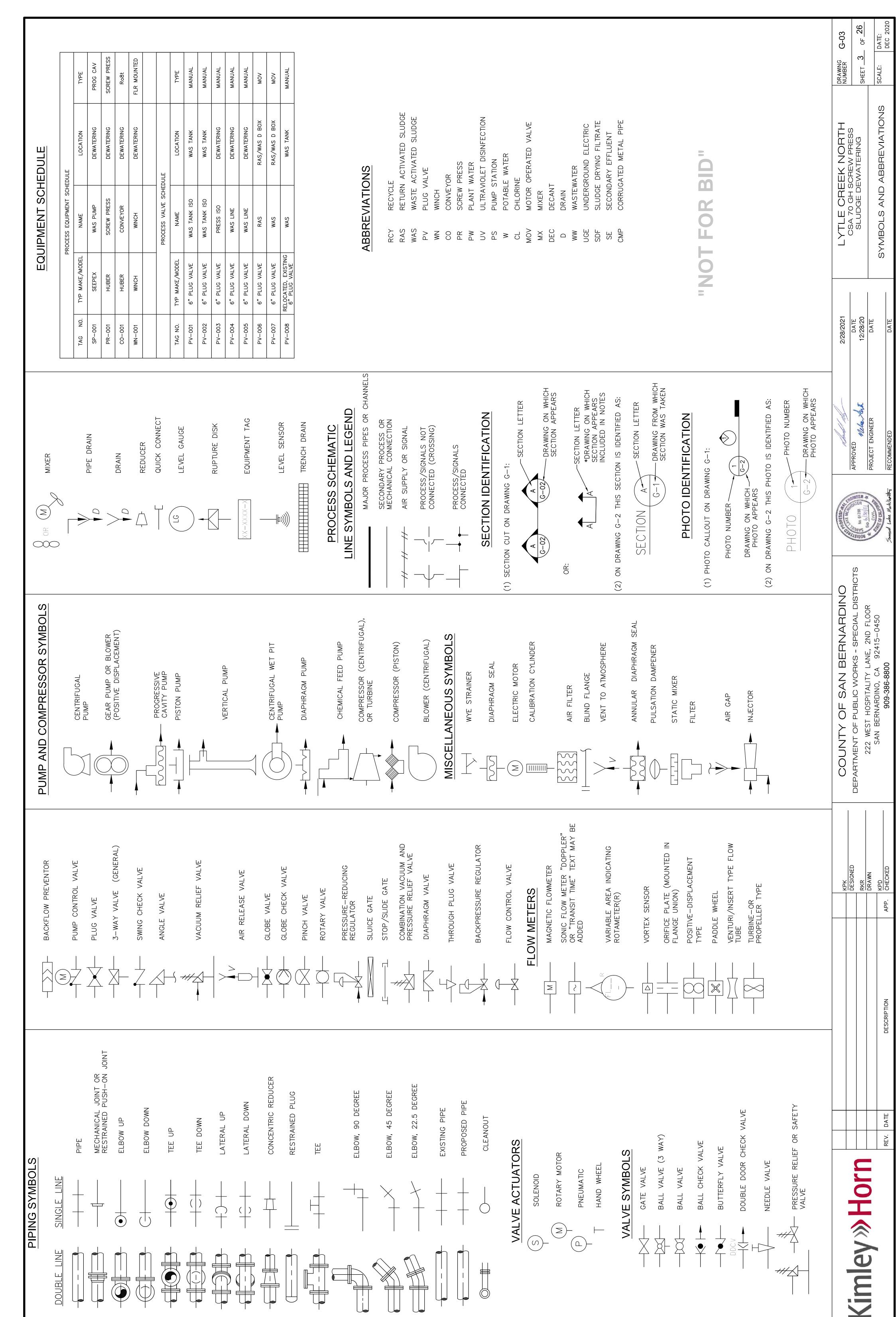
SCALE:

GENERAL PROJECT NOTES

G-02

DRAWING NUMBER

TLE CREEK NORTH SA 70 GH SCREW PRESS SLUDGE DEWATERING



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