RD

GENERAL NOTES

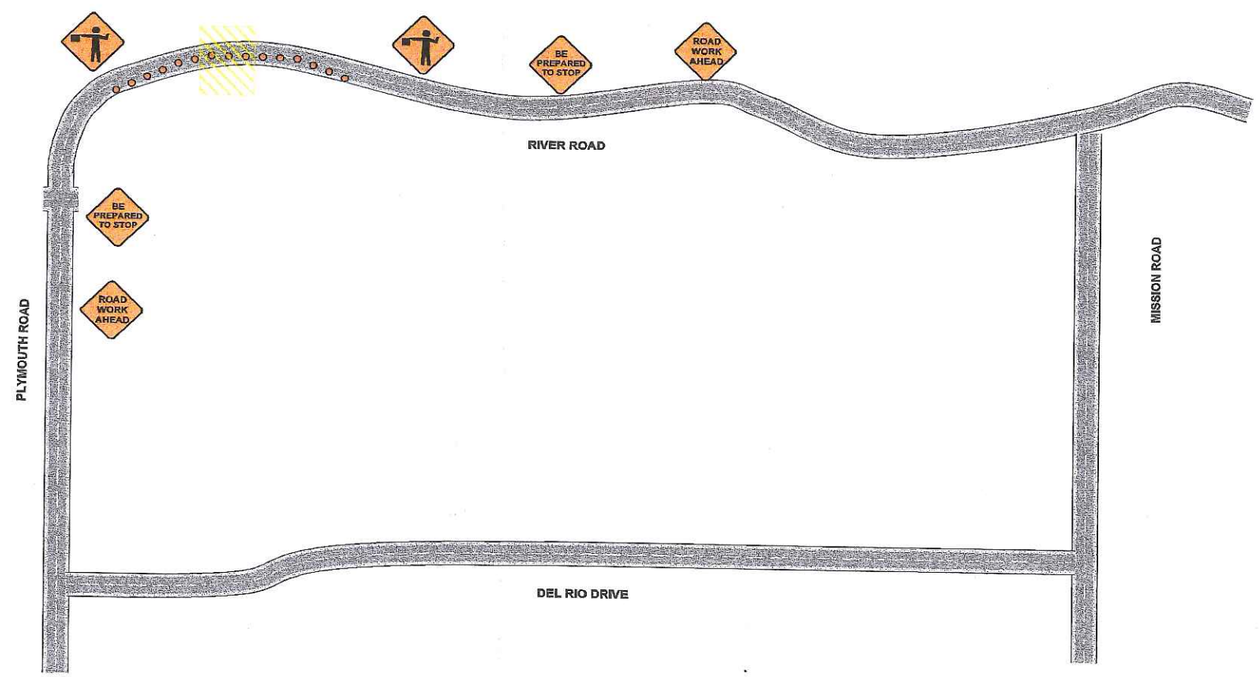
1. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE CALIFORNIA MUTCD.
2. COVER ALL EXSTING SIGNS TO REMAIN THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL.
3. ALL TEMPORARY SIGNS SHALL BE PLACED PER MUTCD.
4. THESE PLANS SHALL BE USED A GUIDE FOR TRAFFIC CONTROL, BUT THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE AND VEHCULAR SAFETY AND SHALL IMPLEMENT A TRAFFIC CONTROL PLAN ACCORDING TO MUTCD GUIDLINES.
5. NOTIFY SHERIFF/POLICE/FIRE DEPARTMENT,CHP AND REGIONAL TRANSIT 5 DAYS PRIOR TO START OF WORK. NOTIFY RESIDENTS/PROPERTY OWNERS 3 DAYS PRIOR TO START OF WORK.

SIGN REFFRNCE (THIS SHEET ONLY)

1. INSTALL W20-1 "ROAD WORK AHEAD" SIGN
2. INSTALL W20-7B "PREPARE TO STOP
3. INSTALL W20-7A " FLAGGER" SIGN

NOTE: LANE CLOSURES SHALL ONLY BE FOR DAY TIME WORK ONLY. ALL SIGNAGE AND CONES WILL BE REMOVE AT THE END OF EACH WORKING DAY.

ALL REGULATORY/WARNING SIGNS RESTORED
ALL SIGNS/INSTALATION PER MUTCD



LEGEND

CONSTRUCTION ZONE

TRAVEL DIRCTION

PORTABLE DELINEATORS

Robt. Burns CONSTRUCTION
Robt. Burns Construction, Inc.
2501 N. Wilson Drive
Stockton, CA 95205
Phone: (209)943-6969
Fax: (209)943-1718
License No. 466931
Construction and Development
Grading • Paving • Utilities

RECLAMATION DISTRICT NO. 1614 SMITH TRACT, SAN JOAQUIN COUNTY CA.	
RIVER ROAD STOCKTON, CA. LANE CLOSURE	
SCALE	NTS
DESIGNED BY	TBJ
DRAWN BY	TBJ
APPROVED BY / DATE	SHEET NO. TC-1
CITY ENGINEER STOCKTON, CALIFORNIA	OF 1 SHEET

RB

NOTE: LANE CLOSURES SHALL ONLY BE FOR DAY TIME WORK ONLY.
ALL SIGNAGE AND CONES WILL BE REMOVE AT THE END OF EACH WORKING DAY.
NOTE: ROAD CLOSED TO THRU TRAFFIC ON:
DATE: 9/29/11 TIME: 7:00 a.m. TO 4:00 p.m.
ROAD CLOSED TO THRU TRAFFIC SHALL ONLY BE FOR DAY TIME CLOSURE ONLY

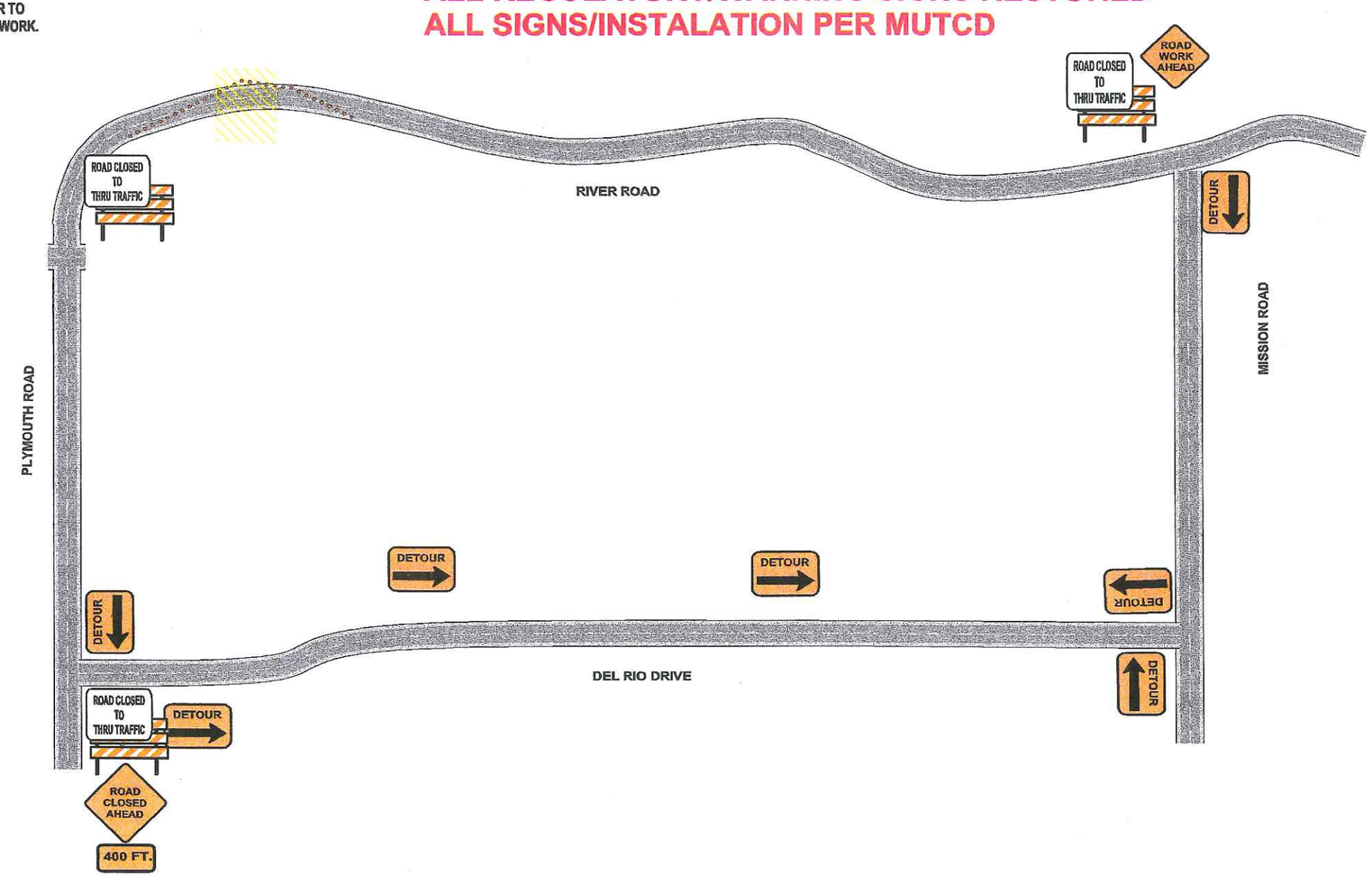
ALL REGULATORY/WARNING SIGNS RESTORED
ALL SIGNS/INSTALATION PER MUTCD

GENERAL NOTES

1. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE CALIFORNIA MUTCD.
2. COVER ALL EXSTING SIGNS TO REMAIN THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL.
3. ALL TEMPORARY SIGNS SHALL BE PLACED PER MUTCD.
4. THESE PLANS SHALL BE USED A GUIDE FOR TRAFFIC CONTROL, BUT THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE AND VEHCULAR SAFETY AND SHALL IMPLEMENT A TRAFFIC CONTROL PLAN ACCORDING TO MUTCD GUIDLINES.
5. NOTIFY SHERIFF/POLICE/FIRE DEPARTMENT,CHP AND REGIONAL TRANSIT 5 DAYS PRIOR TO START OF WORK. NOTIFY RESIDENTS/PROPERTY OWNERS 3 DAYS PRIOR TO START OF WORK.

SIGN REFFRNCE (THIS SHEET ONLY)

1. INSTALL W20-1 "ROAD WORK AHEAD" SIGN
2. INSTALL W20-7B "PREPARE TO STOP
3. INSTALL W20-7A " FLAGGER" SIGN
4. INSTALL TYPE III BARRICADE
5. INSTALL R11-4 " ROAD CLOSED TO THRU TRAFFIC"
6. INSTALL DETOUR SIGNAGE
7. INSTALL C19 "ROAD CLOSED AHEAD"
8. INSTALL C29 " 400 FT." SIGN
9. INSTALL 42" POST TUBE DELINEATOR



LEGEND

- CONSTRUCTION ZONE
- TRAVEL DIRCTION
- PORTABLE DELINEATORS

Robt. Burns CONSTRUCTION

Robert Burns Construction, Inc
2501 N. Wilkeen Drive
Stockton, CA 95205
Phone: (209)943-6969
Fax: (209)943-1715
License No. 460981
Construction and Development
Grading • Paving • Utilities

RECLAMATION DISTRICT NO. 1614 SMITH TRACT, SAN JOAQUIN COUNTY CA.	
RIVER ROAD STOCKTON, CA. ROAD CLOSURE	
SCALE	NTS
DESIGNED BY	TBJ
DRAWN BY	TBJ
APPROVED BY / DATE / SHEET NO.	TC-1
CITY ENGINEER STOCKTON, CALIFORNIA	OF 1 SHEET

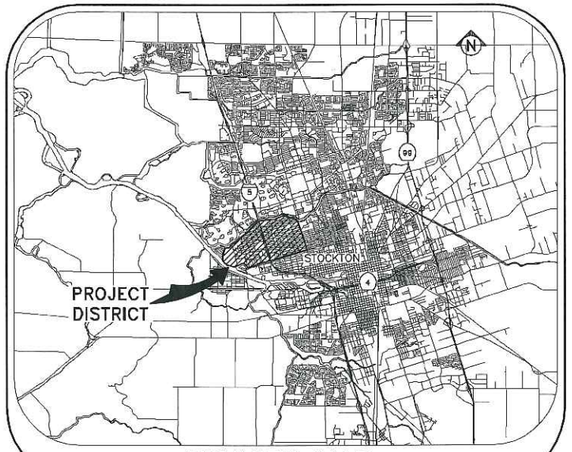
RECLAMATION DISTRICT NO. 1614

SMITH TRACT

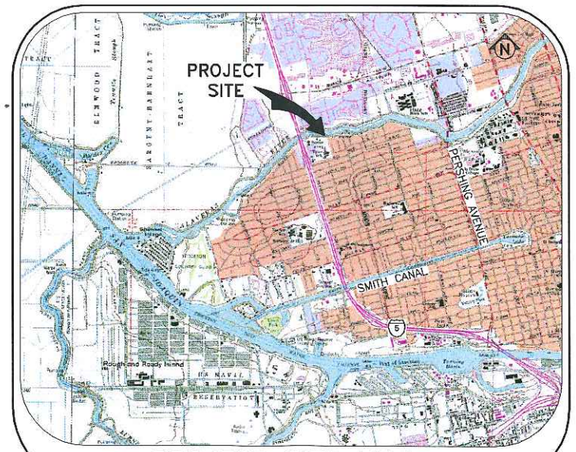
SAN JOAQUIN COUNTY, CALIFORNIA

HOGUE PUMP STATION REPAIR PROJECT

CALAVERAS RIVER



VICINITY MAP



PROJECT SITE MAP

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	BASE MAP
3	CONSTRUCTION NOTES
4	DESIGN CROSS SECTION
5	DETAILS

SHEET INDEX

CALL BEFORE YOU DIG 1-800-227-2600 UNDERGROUND SERVICE ALERT

Submittal	
%	Date

PROJECT ENGINEER — REGISTERED PROFESSIONAL ENGINEER — JEFFREY A. MUELLER — NO. 73738 EXP. 6/30/2011 — CIVIL — STATE OF CALIFORNIA

KSN INC. KJELDSEN SINNOCK NEUDECK
Civil Engineers and Land Surveyors
Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

RECLAMATION DISTRICT NO. 1614
SMITH TRACT
SAN JOAQUIN COUNTY

HOGUE PUMP STATION PIPE REPAIRS
TITLE SHEET

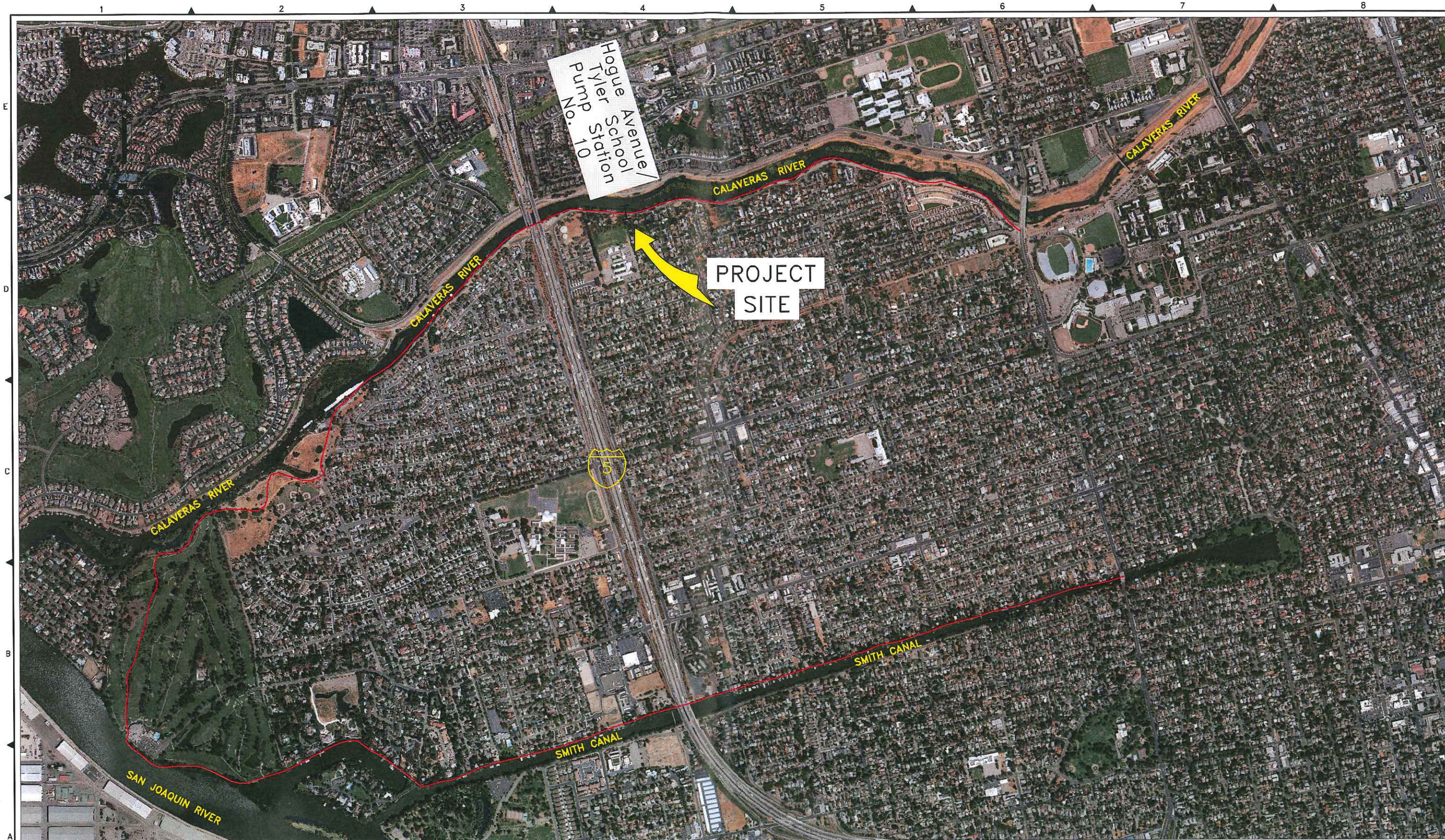
Revisions				
No.	Description	Date	By	Aprvd. By

Design JAM
Drawn JAM
Check CHN

Scale N.T.S.
Original Drawing Scale 0 ½" 1"

Date JUNE 2011
Sheet Number 1 Of 5
Project File No. 0806-0090

FILE SPEC: P:\0806_Smith Tract\0090_Pump_ Stations\01-110_Hogue10\2011_Emergency_Pipe_Repair_Project\05_Civil\Sht-Title.dwg
PLOT DATE: Jun 03, 2011 - 2:46pm



CALL 2 WORK DAYS BEFORE YOU DIG
1-800-227-2600
UNDERGROUND SERVICE ALERT

Submittal	
%	Date

PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
JEFFREY A. MUELLER
NO. 73738
EXP. 6/30/2011
CIVIL
STATE OF CALIFORNIA

KSN INC.
KJELDSEN SINNOCK NEUDECK
Civil Engineers and Land Surveyors
Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

RECLAMATION DISTRICT NO. 1614
SMITH TRACT
SAN JOAQUIN COUNTY

HOGUE PUMP STATION PIPE REPAIRS
BASE MAP

Revisions				
No.	Description	Date	By	Aprvd. By

Design JAM
Drawn JAM
Check CHN

Scale 1" = 600'
Original Drawing Scale 0 ½" 1"

Date JUNE 2011
Sheet Number 2 Of 5
Project File No. 0806-0090

FILE SPEC: P:\0806_Smith Tract\0090_Pump_ Stations\01-110_Hogue10\2011_Emergency_Pipe_Repair_Project\05_Civil\Sht-BaseMap.dwg
PLOT DATE: Jun 03, 2011 - 3:43pm

GENERAL NOTES:

1. PRIOR TO THE COMMENCEMENT OF WORK, A JOINT INSPECTION BETWEEN THE ENGINEER, OR HIS REPRESENTATIVE, AND THE CONTRACTOR, OR HIS REPRESENTATIVE, WILL BE CONDUCTED TO REVIEW THE PRECONSTRUCTION CONDITIONS OF THE EXISTING FACILITIES IN THE VICINITY OF THE PROJECT SITE, (E.G. ROADS, PUMPS, DISCHARGE PIPES, SIPHONS, RAMPS, GATES, SIGNS, ETC.) IF SUCH EXISTING FACILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR, AT HIS EXPENSE, SHALL REPLACE OR RESTORE THEM TO THE CONDITION THAT EXISTED PRIOR TO THE COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT (209) 946-0268, A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
3. THE DISTRICT RESERVES THE RIGHT TO SUSPEND CONSTRUCTION AT ANY TIME IN THE EVENT OF EXTREME HIGH OR LOW TIDES, FLOOD EVENTS, OTHER CONDITIONS OR EMERGENCIES THAT MAY JEOPARDIZE THE INTEGRITY OF THE DISTRICT'S LEVEE AND ROAD SYSTEM.
4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS, AS REQUIRED FOR TRAFFIC CONTROL AND PUBLIC SAFETY DURING PROJECT CONSTRUCTION.
5. THE DISTRICT WILL FURNISH ALL RIGHT-OF-WAYS FOR ALL LEVEE ROADS UNDER THE DISTRICT'S JURISDICTION. THE CONTRACTOR WILL SECURE RIGHT-OF-WAYS FOR ALL OTHER AREAS NOT UNDER THE DISTRICT'S JURISDICTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS ALONG THE DISTRICT/COUNTY LEVEE ROADS AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO THE LEVEE ROADS AND ACCESS RAMPS SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
7. IF DELIVERING MATERIAL OR EQUIPMENT BY TRUCK, ALL TRUCK TRAFFIC SHALL BE LIMITED TO THE DISTRICT/COUNTY LEVEE ROADS, UNLESS OTHERWISE APPROVED.
8. MAXIMUM SPEED LIMIT ON DISTRICT LEVEE ROADS IS 30 MPH, OR AS POSTED.
9. THE ENGINEER WILL PROVIDE LOCATIONS OF THE DESIGNATED PROJECT REPAIR SITES WITH START AND STOP POINTS, AND WILL PROVIDE TEMPORARY BENCHMARKS IN THE VICINITY OF THE PROJECT SITES TO BE UTILIZED BY THE CONTRACTOR FOR SETTING ELEVATIONS.
10. THE CONTRACTOR IS RESPONSIBLE FOR SETTING ALL CONSTRUCTION STAKING AND SURVEYING, AS MAY BE REQUIRED FOR CONSTRUCTION ACTIVITIES, INCLUDING, BUT NOT LIMITED TO, SETTING ANY ELEVATIONS AS REQUIRED THROUGHOUT THE PROJECT SITES.
11. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE DISTRICT AND THE DISTRICT'S ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT OR THE ENGINEER.
12. ANY DEFICIENCIES NOTED DURING INTERIM AND FINAL INSPECTIONS BY THE ENGINEER AND/OR DISTRICT, SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE BY THE DISTRICT. ANY ADDITIONAL COSTS AND EXPENSES FOR MOBILIZATION AND/OR DEMOBILIZATION, LABOR, EQUIPMENT AND OTHER ASSOCIATED COSTS REQUIRED TO CORRECT THE DEFICIENCIES NOTED, EXCEPT SPECIFIED MATERIAL(S), SHALL BE BORNE BY THE CONTRACTOR.
13. THE CONTRACTOR SHALL NOT CLOSE ANY ROAD, STREET, OR HIGHWAY TO THE PUBLIC EXCEPT WITH THE PERMISSION OF THE ENGINEER AND THE PROPER GOVERNMENTAL AUTHORITY. TEMPORARY PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO ENSURE CONTINUOUS ACCESS TO PUBLIC AND PRIVATE DRIVEWAYS, AND PROPER FUNCTIONING OF SEWER INLETS, GUTTERS, CULVERTS, DRAINAGE AND IRRIGATION DITCHES, AND NATURAL WATER COURSES.
14. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.
15. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTRACT THE ENGINEER AT (209) 946-0268 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
16. THE INTENT OF THESE PLANS ARE TO SERVE AS A GUIDE AND TO PROVIDE THE CONTRACTOR WITH INFORMATION AND DETAILS NECESSARY TO CONSTRUCT THE PROJECT AND FURNISH THE NECESSARY LABOR, MATERIALS, AND EQUIPMENT TO PERFORM THE WORK IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE DISTRICT'S ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. IF THE PLANS DESCRIBE PORTION OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
17. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS.
18. ALL IMPROVEMENTS TO BE DONE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
19. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHENEVER IT APPEARS THERE IS A CHANGE IN SITE CONDITIONS OR AN ADJUSTMENT TO BE MADE IN WORK REQUIREMENTS.
20. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE SECURITY OF HIS PLANT AND EQUIPMENT. THE DISTRICT WILL NOT TAKE ANY RESPONSIBILITY FOR MISSING OR DAMAGED EQUIPMENT, TOOLS, OR PERSONAL BELONGINGS.

ENVIRONMENTAL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN AIR POLLUTION CONTROLS BY NOT DISCHARGING SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH QUANTITY AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONSTITUTED AUTHORITY. HE SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER, OR OTHER MEANS AS NECESSARY. THE USE OF WATER IN AN AMOUNT WHICH RESULTS IN MUD ON PUBLIC ROADS IS NOT ACCEPTABLE AS A SUBSTITUTE FOR SWEEPING OR OTHER METHODS.
2. THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PROTECT STREAMS, WATERWAYS AND OTHER BODIES OF WATER FROM POLLUTION WITH FUELS, OIL, BITUMENS, CALCIUM CHLORIDE, AND OTHER HARMFUL MATERIALS AND SHALL CONDUCT AND SCHEDULE HIS OPERATIONS SO AS TO AVOID OR MINIMIZE MUDDYING AND SILTING OF SAID WATERS. CARE SHALL BE EXERCISED TO PRESERVE ROADSIDE VEGETATION BEYOND THE LIMITS OF CONSTRUCTION.
3. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CONDITIONS CLEAN AND FREE FROM RUBBISH AND DEBRIS.

DUST AND MUD CONTROL:

1. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION AREAS, EMBANKMENT FILL AREAS, HAUL ROADS, OTHER ROADWAYS, AND OTHER USE AREAS WHERE DUST IS GENERATED WELL WATERED; AND DURING WET CONDITIONS, AREAS USED BY LOCAL TRAFFIC, FREE AND CLEAR FROM MUD.
   A. NON WORK DAYS: THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL IN ANY PROJECT AREAS AND CONSTRUCTION ROADS WHICH ARE USED BY THE CONTRACTOR, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL DEDICATE AT LEAST ONE (1) WATER TRUCK FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE FOR, BUT NOT LIMITED TO THE FOLLOWING AREAS:
   A. PROJECT AREA
   B. ACCESS AND HAUL ROADS
   C. EMBANKMENT FILL AREAS
   D. OTHER CONSTRUCTION USE AREAS
3. WATER WILL BE MADE AVAILABLE FOR THE CONSTRUCTION OPERATIONS FROM THE DISTRICT FROM THE SURROUNDING WATERWAY. THE PUMPING FACILITY SHALL BE LOCATED IN AN AREA THAT WILL NOT CREATE A TRAFFIC OR MUD HAZARD ON THE LEVEE ROADS USED BY THE PUBLIC, LOCAL TRAFFIC, OR CONSTRUCTION ACTIVITIES.

UTILITY NOTES:

1. THE APPROXIMATE LOCATION OF KNOWN UTILITIES, SUBMARINE CABLES SIPHONS, FERRY CABLES, DISCHARGE PIPES, ETC., MAYBE BE SHOWN ON THE PLANS FOR THE INFORMATION OF THE CONTRACTOR. THE DISTRICT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF THIS INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND, SURFACE, OVERHEAD, AND SUBMARINE IMPROVEMENTS, OR FACILITIES WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF HIS OPERATIONS.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK.
3. HE SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITIES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY CONSTRUCTION. (UNDERGROUND SERVICE ALERT (800) 642-2444)
4. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING IRRIGATION AND DRAINAGE FACILITIES INCLUDING, BUT NOT LIMITED TO, SIPHONS, DITCHES, CROSSINGS, DISTRIBUTION BOXES, SLIDE GATES, ETC., DURING THE TERM OF THE CONTRACT. THE EXISTING IRRIGATION AND DRAINAGE FACILITIES MUST REMAIN FULLY OPERATIONS DURING THE PERIOD OF CONSTRUCTION.

TRAFFIC CONTROL

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND AS DESCRIBED IN SPECIAL PROVISIONS, SECTION 1.12, "TRAFFIC CONTROL."

CLEANUP:

1. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE PREMISES OCCUPIED BY HIM IN A CLEAN AND ORDERLY CONDITION, DISPOSING OF REFUSE IN A MANNER SATISFACTORY TO THE ENGINEER.
2. THE CONTRACTOR, UPON COMPLETION OF ALL WORK, SHALL RESTORE ALL LEVEE AND ACCESS ROADS, HAUL ROADS, AND PROJECT SITES IN A MANNER SATISFACTORY TO THE ENGINEER AND LANDOWNER.

POWER LINES:

1. THE CONTRACTOR SHALL TAKE NOTE OF ANY POWER LINES WITHIN THE CONSTRUCTION ZONE. EXTREME CUATION IS ADVISED WHILE WORKING AROUND AND NEAR THESE LIVE LINES.

CLEARING & GRUBBING

1. UNLESS OTHERWISE INDICATED, THE WORK AREAS SHALL BE CLEARED AND GRUBBED TO 20 FT. BEYOND THE DESIGN FILL SECTION.
2. USE CAUTION WHILE CLEARING AND GRUBBING AROUND POWER LINES & ANY BURIED ELECTRICAL CABLES.
3. ALL MATERIAL CLEARED AND REMOVED SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR FOR REMOVAL AND DISPOSAL OFFSITE.

CONSTRUCTION NOTES:

ACCESS ROADS:

1. THE CONTRACTOR SHALL IMPROVE AND MAINTAIN THE LOCAL ACCESS AND LEVEE ROADS AS MAY BE REQUIRED FOR TRANSPORTATION AND HAULING MATERIAL TO THE SITE.
2. THE CONTRACTOR SHALL REVIEW THE ACCESS ROAD ROUTES AND DETERMINE THE LOCATION FOR ADDITIONAL TURNOUTS, RAMPS, ROAD DRAINAGE, ALIGNMENT, ETC. UPON COMPLETION OF THE PROJECT, SOME PORTIONS OF THE ACCESS ROADS MAY REQUIRE MINOR MODIFICATIONS AND ALTERATIONS. THE ACCESS ROADS WHICH REMAIN SHALL BE LEFT IN GOOD CONDITION FOR THE DISTRICT, FARMERS, AND OTHER LOCAL TRAFFIC.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAKING ANY NECESSARY IMPROVEMENTS, MODIFICATIONS, AND ALTERATIONS TO MEET HIS REQUIREMENTS AND FOR THE MAINTENANCE AND EXPENSE THEREOF.
4. THE CONTRACTOR SHALL SECURE ALL OTHER ACCESS ROAD EASEMENTS AS MAY BE REQUIRED WITH THE INDIVIDUAL PROPERTY OWNERS FOR ALL NON-DISTRICT AND/OR PUBLIC ACCESS ROADS AND AS DESCRIBED IN SPECIAL PROVISIONS, SECTION 1.12, "TRAFFIC CONTROL & RIGHT-OF-WAY."
5. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZED TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATIONS OVER THE DESIGNATED ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

IMPORT FILL:

1. EMBANKMENTS SHALL BE CONSTRUCTED WITH ACCEPTABLE MATERIALS SUFFICIENT TO MEET DESIGN GRADES.
2. ALL AREAS WITHIN THE LIMITS TO RECEIVE THE EMBANKMENT FILL MATERIAL SHALL BE CLEARED AND GRUBBED.
3. ALL SUBGRADE AREAS RECEIVING EMBANKMENT FILL SHALL BE PREPARED AS NOTED. THE CONTRACTOR MAY BE REQUIRED TO PERFORM ADDITIONAL SUBGRADE PREPARATION WORK WITHIN THE FILL AREAS PRIOR TO THE ACCEPTANCE OF THE EMBANKMENT FILL MATERIAL.
4. THE CONTRACTOR SHALL DELIVER EMBANKMENT FILL MATERIAL TO THE REQUIRED SECTIONS AS UNIFORM MIXTURES. THE MIXTURE SHALL BE DEPOSITED AND SPREAD TO THE REQUIRED COMPACTED THICKNESS. SEGREGATION OF MATERIAL SHALL BE AVOIDED AND EACH LAYER OF MATERIAL, AS SPREAD, SHALL BE FREE FROM POCKETS OF COARSE OR FINE MATERIAL.
   A. THE EMBANKMENT FILL MATERIAL SHALL BE PLACED IN LOOSE HORIZONTAL LAYERS NOT MORE THAN EIGHT INCHES (8") IN THICKNESS PRIOR TO COMPACTION. THE MATERIAL SHALL BE GENTLY SPREAD OUT. UNDER NO CIRCUMSTANCES SHALL ANY MATERIAL BE DROPPED FROM ANY HEIGHT ONTO THE LEVEE FILL SECTION.
   B. IN THE EVENT SEGREGATION OCCURS, THE MATERIAL SHALL BE WORKED UNTIL THE VARIOUS SIZES OF MATERIAL ARE UNIFORMLY AND SATISFACTORILY BLENDED. AFTER BEING SPREAD, THE MATERIAL SHALL BE WATERED AND SHAPED TO THE REQUIRED SECTION AND THEN COMPACTED.
   C. WHERE THE REQUIRED THICKNESS IS 6 INCHES (6") OR LESS, THE MATERIAL MAY BE SPREAD AND COMPACTED IN ONE LAYER. WHERE THE REQUIRED THICKNESS IS MORE THAN 6 INCHES (6"), THE MATERIAL SHALL BE SPREAD AND COMPACTED IN HORIZONTAL LAYERS OF APPROXIMATELY EQUAL THICKNESS, AND THE MAXIMUM COMPACTED THICKNESS OF ANY ONE LAYER SHALL NOT EXCEED 8 INCHES. EACH LAYER SHALL BE SPREAD AND COMPACTED IN A SIMILAR MANNER.
   D. AT THE TIME EMBANKMENT FILL MATERIAL IS SPREAD, IT SHALL HAVE A MOISTURE CONTENT SUFFICIENT TO OBTAIN THE REQUIRED COMPACTION. MOISTURE SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE MATERIAL.
   E. SUBGRADE AREAS SHALL BE SCARIFIED TO A UNIFORM DEPTH OF TWELVE INCHES (12") AND COMPACTED TO 85% RELATIVE COMPACTION, AND EMBANKMENT FILL AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% RELATIVE COMPACTION.
5. FINISHING AND SLOPING GRADING
   A. THE SURFACE OF THE TOP LAYER SHALL BE FINISHED TO THE DESIGNATED GRADE AND CROSS SECTION. THE FINISHED SURFACE SHALL BE OF UNIFORM TEXTURE, DRESSED AND GRADED TO DRAIN AND PREVENT WATER PONDING.

QUARRY STONE RIPRAP

1. THE REPAIR SITE AREA TO RECEIVE QUARRY STONE RIPRAP, AND/OR FILL SHALL BE CLEARED TO THE GROUND SURFACE OF ALL VEGETATIVE GROWTH AND DEBRIS, EXCEPT AS NOTED. ONLY MINOR SLOPE CLEARING AND DEBRIS REMOVAL IS ANTICIPATED PRIOR TO PLACEMENT OF MATERIAL. CLEARED MATERIALS MAY BE TEMPORARILY STOCKPILED ON THE BACKSLOPE OF THE LEVEE. UNDER NO CIRCUMSTANCES SHALL MATERIAL BE BURNED ON THE LEVEE SECTION OR DISPOSED OF BY DUMPING IT INTO THE WATERWAYS. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY CLEARED MATERIALS OFF THE PROJECT.
2. UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE PLANS, THE EMBANKMENT SLOPE SHALL BE CONSTRUCTED FROM MATERIALS SPECIFIED IN ORDER TO END UP WITH A NEAT AND UNIFORM SLOPE SECTION TO A MINIMUM OF 1-1/2 HORIZONTAL TO 1 VERTICAL (1-1/2 : 1)
3. ANY EXCAVATION OR EMBANKMENT FILL SECTIONS REQUIRED SHALL BE BALANCED IN ORDER TO END UP WITH THE MINIMUM SLOPE SECTION.
4. EMBANKMENT FILL PLACED BELOW THE WATER SURFACE SHALL BE PLACED BY METHODS WHICH WILL NOT SEGREGATE FILL MATERIAL AND SHALL BE SPREAD UNIFORMLY ON THE BASE OF THE PREPARED SLOPE SECTIONS.
5. MATERIAL SHALL BE PLACED IN A SYSTEMATIC MANNER WITH PLACEMENT BEGINNING AT THE BASE OF THE EMBANKMENT SLOPES AND BROUGHT TO A MINIMUM DESIGN SLOPE SECTION AS SHOWN.
6. EMBANKMENT FILL PLACED ABOVE THE WATER SURFACE SHALL BE PLACED IN HORIZONTAL LIFTS AND BUCKET TAMPED PRIOR TO PLACEMENT OF QUARRY STONE RIPRAP, UNLESS OTHERWISE SPECIFIED.
7. ALL QUARRY STONE RIPRAP SHALL BE PLACED UNIFORMLY ON PREPARED LEVEE SLOPES, AND KEYED INTO THE LEVEE SECTION, LEVEE TOE OR WATERSIDE BENCH, AND INTO ANY PREVIOUSLY PLACED QUARRY STONE RIPRAP, UNLESS OTHERWISE DIRECTED.
8. QUARRY STONE RIPRAP SHALL BE PLACED SYSTEMATICALLY BEGINNING AT THE BASE OF THE PREPARED EMBANKMENT SLOPES TO THE LINES AND GRADES SHOWN ON THE PLANS.
9. BUCKET TAMPING OF THE STONE ABOVE THE WATER SHALL BE REQUIRED TO SET THE NEW STONE PROTECTION IN PLACE AND TO ACHIEVE THE REQUIRED SLOPE AND TOLERANCE OF PLUS 2 INCHES TO MINUS 1 INCH WILL BE ALLOWED FROM THE THICKNESS SHOWN ON THE PLANS.
10. BUCKET TAMPING OF THE QUARRY STONE RIPRAP WILL BE PERFORMED IN A MANNER NOT TO DEGRADE THE STONE PLACED.
11. REARRANGING OF INDIVIDUAL STONES BY MECHANICAL EQUIPMENT OR HAND MAY BE REQUIRED TO THE EXTENT NECESSARY TO OBTAIN A REASONABLY WELL GRADED DISTRIBUTION OF STONE SIZES TO PROVIDE A FINISHED SURFACE FREE OF PROTRUDING STONES.
12. DUE TO VARIATIONS IN SLOPE LENGTH, THE APPLICATION RATE OF ANY FILL AND QUARRY STONE RIPRAP MAY VARY BETWEEN STATIONS.
13. EXTREME CARE MUST BE USED WHILE WORKING AROUND OR NEAR ANY LEVEE STRUCTURES: E.G. SIPHONS, DISCHARGE PIPES, PUMPS, ETC.
14. FOR THE PURPOSE OF THESE PLANS, THE TERM "EMBANKMENT" INCLUDES ALL THE EXCAVATION AND FILL PORTIONS AS MAY BE DESIGNATED ON THE PLANS AND REQUIRED AS A RESULT OF THE LEVEE WATERSIDE SLOPING OPERATIONS.

WELDED STEEL PIPE:

1. WELDED STEEL PIPE SHALL CONFORM TO THE SPECIFICATIONS OF ANSI/AWWA DESIGNATION: C200-05; ASTM DESIGNATION: A 53, GRADE B; API SPECIFICATION 5L, GRADE B; OR API SPECIFICATION 5LX, GRADE X42. PIPE THICKNESS IS AS INDICATED ON THE PLANS.
2. FIELD WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF ANSI/AWWA DESIGNATION: C206-11.
3. ALL PIPE JOINTS SHALL BE WELDED AND EPOXY COATED AT THE WELDED JOINTS IN ACCORDANCE WITH ANSI/AWWA C210-07.
4. PRIOR TO BACKFILLING AT THE WELDED JOINTS, THE PIPE SHALL BE TESTED AND PLACED UNDER OPERATING HEAD FOR A PERIOD OF 2 HOURS. ANY LEAKS OR OTHER DEFECTS SHALL BE CORRECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL TEST EQUIPMENT, GAUGES, PLUGS AND CAPS REQUIRED FOR TESTING.
5. WELDED FIELD JOINTS SHALL BE MADE IN ACCORDANCE WITH ANSI/AWWA C210-08 STANDARDS AND ANSI/AWWA C206-11 STANDARDS FOR "FIELD WELDING OF WATER PIPE" AND WITH AWS D1.1.
6. AFTER THE PIPE HAS BEEN PROPERLY ASSEMBLED AND INSTALLED, BACKFILLING SHALL BE PERFORMED AT ALL TIMES IN A MANNER THAT AVOIDS ABRASION OR OTHER PIPE DAMAGE.
7. AFTER THE INITIAL BACKFILLING HAS BEEN MADE AND APPROVED BY THE ENGINEER, THE FINAL BACKFILLING SHALL BE MADE. MATERIAL SHALL BE PLACED IN THE TRENCH CAREFULLY IN ORDER NOT TO DAMAGE THE PIPE AND THEN COMPACTED TO 90% RELATIVE COMPACTION IN ACCORDANCE WITH ASTM D 1557-09 PROCEDURE TO THE PROPER LINES AND GRADES.

COMPACTION EQUIPMENT:

1. COMPACTION SHALL BE PERFORMED WITH A NON-VIBRATORY TYPE ROLLER COMPACTOR. VIBRATORY EQUIPMENT WILL NOT BE PERMITTED ON DISTRICT LEVEES AND FILLS.

NOTE:

1. CONTRACTOR IS RESPONSIBLE FOR THE OFFSITE DISPOSAL OF ALL REMOVED PIPE AT HIS EXPENSE.
2. CONTRACTOR MUST SECURE AN ENCROACHMENT PERMIT FROM SAN JOAQUIN COUNTY PUBLIC WORKS, 1810 EAST HAZELTON AVE., STOCKTON CA.

SPECIAL NOTE: THE NOTES PLACED ON THIS PLAN SHEET ARE TO BE USED AS A GUIDE FOR VARIOUS TOPICS DESCRIBED. SPECIFIC DETAILS AND FURTHER EXPLANATIONS OF THE VARIOUS NOTES ARE DESCRIBED IN THE SPECIFICATIONS AND WITHIN THESE PLANS.

CALL BEFORE YOU DIG 1-800-227-2600 UNDERGROUND SERVICE ALERT

Submittal	
%	Date

PROJECT ENGINEER — REGISTERED PROFESSIONAL ENGINEER JEFFREY A. MUELLER NO. 73738 EXP. 6/30/2011 CIVIL STATE OF CALIFORNIA

KSN INC. KJELDSEN SINNOCK NEUDECK
Civil Engineers and Land Surveyors
Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

RECLAMATION DISTRICT NO. 1614
SMITH TRACT
SAN JOAQUIN COUNTY

HOGUE PUMP STATION PIPE REPAIRS
CONSTRUCTION NOTES

Revisions				
No.	Description	Date	By	Aprvd. By

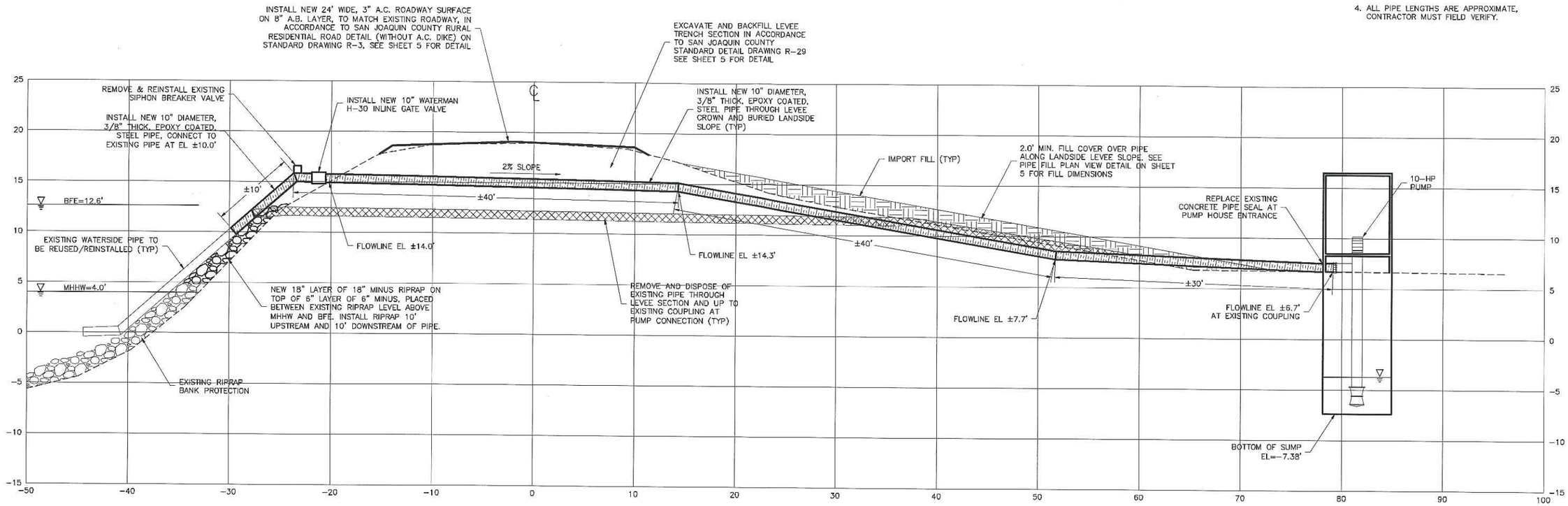
Design JAM	Scale N.T.S.	Date JUNE 2011
Drawn JAM	Original Drawing Scale 0 ½" 1"	Sheet Number 3 Of 5
Check CHN		Project File No. 0806-0090

FILE SPEC: P:\0806_Smith Tract\0090_Pump_ Stations\01-110_Hogue10\2011_Emergency_Pipe_Repair_Project\05_Civil\Sht-Notes.dwg
PLOT DATE: Jun 03, 2011 - 2:41pm

VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)

NOTES:

1. EPOXY COATED PIPE SHALL HAVE A SHOP-APPLIED LIQUID-EPOXY EXTERNAL COATING PRIOR TO DELIVERY AT THE PROJECT SITE IN ACCORDANCE WITH ANSI/AWWA C210-08 STANDARDS.
2. THE EXTERIOR SHALL BE A TWO-PART, CHEMICALLY CURED EPOXY PRIMER AND ONE COAT OF A DIFFERENT TWO-PART, CHEMICALLY CURED EPOXY TOPCOAT. THE TWO-PART MATERIALS USED IN BOTH THE PRIMER AND FINISHED TOPCOAT SHALL BE A PRODUCT OF ONE MANUFACTURER.
3. THE DRY FILM COATING THICKNESS (DFT) SHALL BE BASED UPON THE MANUFACTURER'S RECOMMENDATIONS. THE MINIMUM DFT SHALL BE NO LESS THAN 16 MILS (406μm).
4. ALL PIPE LENGTHS ARE APPROXIMATE, CONTRACTOR MUST FIELD VERIFY.



HOGUE PUMP STATION
STA 262+00

Submittal	
%	Date

CALL BEFORE YOU DIG 1-800-227-2600 UNDERGROUND SERVICE ALERT

PROJECT ENGINEER: REGISTERED PROFESSIONAL ENGINEER JEFFREY A. MUELLER NO. 73738 EXP. 6/30/2011 CIVIL STATE OF CALIFORNIA

KSN INC. KJELDSEN SINNOCK NEUDECK
Civil Engineers and Land Surveyors
Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

RECLAMATION DISTRICT NO. 1614
SMITH TRACT
SAN JOAQUIN COUNTY

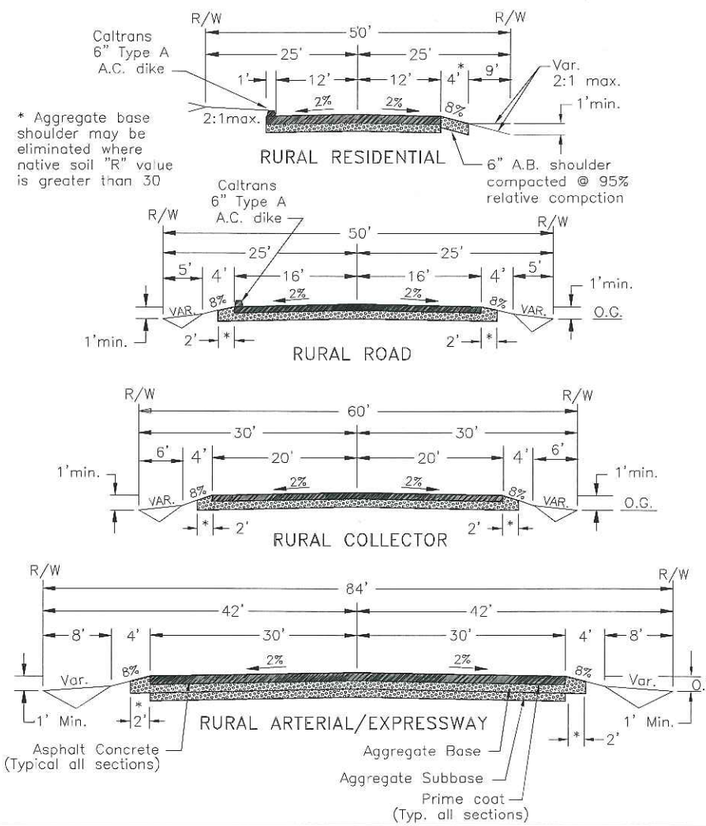
HOGUE PUMP STATION PIPE REPAIRS
DESIGN CROSS SECTION

Revisions				
No.	Description	Date	By	Aprvd. By

Design JAM	Scale N.T.S.	Date JUNE 2011
Drawn JAM	Original Drawing Scale 0 ½" 1"	Sheet Number 4 Of 5
Check CHN		Project File No. 0806-0090

FILE SPEC: P:\0806_Smith Tract\0090_Pump_ Stations\01-110_Hogue10\2011_Emergency_Pipe_Repair_Project\05_Civil\Shl-XS_Details.dwg
PLOT DATE: Jun 03, 2011 - 2:50pm

NOTE: The Structural section shall be determined by the roadway design standards and Standard Drawing No. R-27.



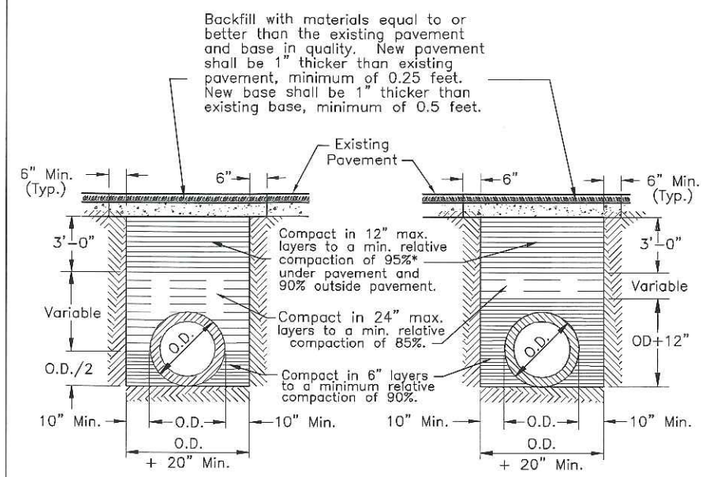
No.	Revised	By
1	Feb. 1996	PD

Drawn by JLD
Checked by
Scale NONE

TYPICAL RURAL ROAD SECTIONS

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by
Director of Public Works
Date JUNE 1997
Drawing No. R-3



RIGID CONDUIT

FLEXIBLE CONDUIT

NOTES:

1. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
2. All existing pavement shall be neatly cut to line prior to trench excavation.
3. Jetting or ponding will be permitted within the street Right of Way with a 3 year bond.
4. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
5. Special bedding requirements may be shown on the plans or specified in special provisions.
6. Shoulders shall be as shown on the plans or specified in the special provisions but in no case shall the shoulder be less than three feet wide as measured from the edge of pavement.

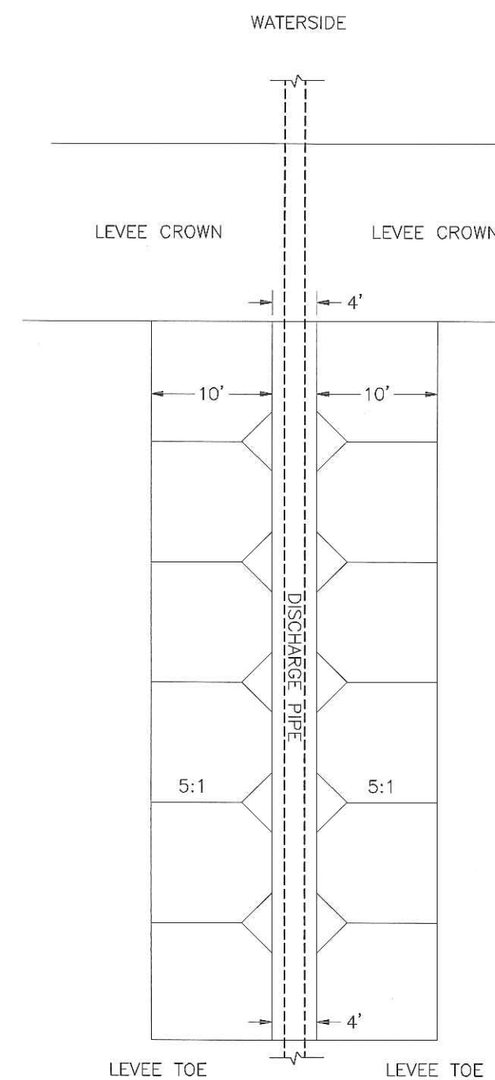
No.	Revised	By
1	Feb. 1996	PD

Drawn by JLD
Checked by
Scale NONE

TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by
Director of Public Works
Date JUNE 1997
Drawing No. R-29



PIPE FILL PLAN VIEW DETAIL
SCALE: N.T.S.

CALL BEFORE YOU DIG 800-227-2600 UNDERGROUND SERVICE ALERT

Submittal	
%	Date

PROJECT ENGINEER — REGISTERED PROFESSIONAL ENGINEER JEFFREY A. MUELLER NO. 73738 EXP. 6/30/2011 CIVIL STATE OF CALIFORNIA

KSN INC. KJELDSEN SINNOCK NEUDECK
Civil Engineers and Land Surveyors
Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

RECLAMATION DISTRICT NO. 1614
SMITH TRACT
SAN JOAQUIN COUNTY

HOGUE PUMP STATION PIPE REPAIRS DETAILS

Revisions				
No.	Description	Date	By	Aprvd. By

Design JAM
Drawn JAM
Check CHN
Scale N.T.S.
Original Drawing Scale 0 ½" 1"
Date JUNE 2011
Sheet Number 5 Of 5
Project File No. 0806-0090

FILE SPEC: P:\0806_Smith Tract\C090_Pump_ Stations\01-110_Hogue10\2011_Emergency_Pipe_Repair_Project\05_Civil\Shl-XS_Details.dwg
PLOT DATE: Jun 03, 2011 - 2:56pm