SPECIFICATIONS

GENERAL

1. A NO FEE ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE CITY OF STOCKTON PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS PERTAINING TO HIS OPERATIONS. HE SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
3. THE CONTRACTOR SHALL LOCATE AND PRESERVE ALL EXISTING FACILITIES INCLUDING GAS, WATER, IRRIGATION, POWER, TELEPHONE, SEWER OR OTHERS WHICH MAY BE PRESENT IN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITY COMPANIES PRIOR TO BEGINNING WORK.
4. THE CONTRACTOR SHALL DEMOLISH, EXCAVATE, REMOVE AND DISPOSE OF ALL EXISTING CONCRETE CURB, GUTTER OR SIDEWALK, ASPHALT CONCRETE PAVING, AND DELETERIOUS MATERIAL AS REQUIRED TO CONSTRUCT THE CONTRACT WORK. ALL SUCH EXCESS MATERIAL GENERATED SHALL BE DISPOSED OF FROM THE SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
5. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FOR THE CONSTRUCTION MANAGER.
6. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND OR DETOUR PLAN FOR APPROVAL BY THE CITY OF STOCKTON PRIOR TO THE START OF CONSTRUCTION.
7. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT ISSUE OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
8. IF THE CONTRACTOR DISTURBS ANY PROPERTY CORNERS OR CENTERLINE MONUMENTS DURING THE DEMOLITION OR CONSTRUCTION OF THE PROJECT, THE CONTRACTOR MUST HIRE A REGISTERED LAND SURVEYOR TO RESET THE MONUMENT PER THE PROFESSIONAL LAND SURVEYORS ACT SECTION 8771.
9. CONTRACTOR SHALL FIELD VERIFY ALL SIZES, ELEVATIONS, FLOW DIRECTIONS, AND PROXIMITY OF UNDERGROUND UTILITIES PRIOR TO COMMENCING PIPE REPLACEMENT CONSTRUCTION. CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES ARE FOUND IN FIELD PRIOR TO COMMENCING WORK.
10. THE CONTRACTOR SHALL REPLACE ANY ITEMS IN KIND THAT ARE DAMAGED DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSING AND SERVICES.
12. THE CONTRACTOR SHALL KEEP A NEATLY MARKED SET OF FULL SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL FACILITIES. THE AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.
13. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE CONSTRUCTION MANAGER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.

UTILITIES

14. PWPVC SHOWN ON THE PLANS SHALL BE PROFILE WALL POLYVINYL CHLORIDE PIPE (PWPVC) PWPVC SHALL BE CLOSED PROFILE ASTM F 1803-97 WITH A BELL AND SPIGOT GASKETED JOINT. THE JOINT SHALL MEET THE REQUIREMENTS OF ASTM D 3212. THE PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS WHEN TESTED IN ACCORDANCE WITH ASTM D 2412.
15. WHERE THE PLANS NOTE THAT THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITY LINES PRIOR TO THE START OF CONSTRUCTION, IT IS INTENDED THAT THE CONTRACTOR "POT HOLE" THE EXISTING UTILITIES. IF A CONFLICT EXISTS BETWEEN THE EXISTING AND PROPOSED UTILITY LINES, THE CONTRACTOR SHALL CONTACT THE CITY'S CONSTRUCTION MANAGER PRIOR TO BEGINNING THE INSTALLATION OF THE PROPOSED UTILITIES. FIELD ADJUSTMENTS TO THE UTILITIES CAN BE MADE WITH THE APPROVAL OF THE CITY'S CONSTRUCTION MANAGER.
16. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5 FEET OR MORE. EXCAVATIONS OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR TRENCHES 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH SECTION 5-1.02A OF THE CALTRANS STANDARDS, SECTION 6705 OF THE STATE OF CALIFORNIA LABOR CODE, AND ANY LOCAL CODES OR ORDINANCES.
17. THE CONTRACTOR SHALL EXPOSE EXISTING STORM DRAINS AND SANITARY SEWERS WHERE CONNECTIONS ARE TO BE MADE SO EXISTING FLOWLINES AND LOCATIONS CAN BE VERIFIED BEFORE THE START OF CONSTRUCTION.
18. THE CONTRACTOR'S ATTENTION IS DRAWN TO SECTION 71 OF THE CITY OF STOCKTON'S STANDARD SPECIFICATIONS.
19. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 9, SECTION 6705, 6706, AND 6707 OF THE STATE LABOR CODE.
20. ALL UTILITY TRENCHES SHALL BE BACKFILLED AND RECOMPACTED IN ACCORDANCE WITH THE CITY OF STOCKTON AND COUNTY STANDARD SPECIFICATIONS.
21. WHENEVER EXISTING PAVEMENT IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED, AFTER PROPER BACKFILLING, WITH THE PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE CONSTRUCTION MANAGER.

DEWATERING

22. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE AND MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION, AND SHALL DEWATER AND DISPOSE OF THE WATER SO AS TO NOT CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THE GROUNDWATER LEVEL OUTSIDE OF THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTY. ALL COST FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT BELOW THE BOTTOM OF THE EXCAVATION TO MAINTAIN THE UNDISTURBED STATE OF NATURAL SOILS AND ALLOW THE PLACEMENT OF ANY FILL TO SPECIFIED DENSITY. DISPOSAL OF WATER SHALL NOT DAMAGE PROPERTY, CREATE NUISANCE OR VIOLATE THE LAW. THE CONTRACTOR SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION. THE DEWATERING SYSTEM SHALL OPERATE CONTINUOUSLY UNTIL BACKFILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE NORMAL STATIC GROUNDWATER LEVEL.

BYPASS PUMPING

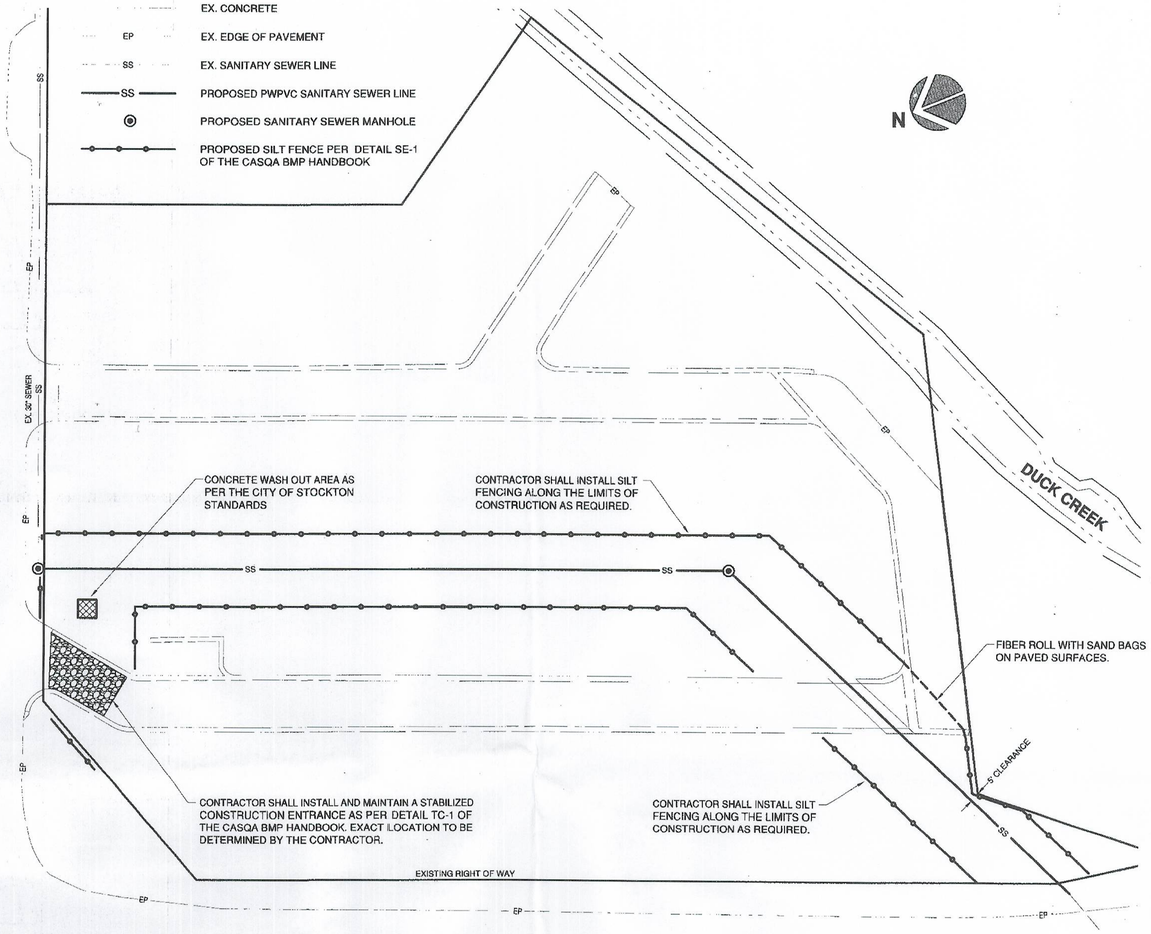
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE BYPASS PUMPING PLAN TO BE SUBMITTED FOR APPROVAL TO THE CITY OF STOCKTON NO LESS THAN 72 HOURS PRIOR TO THE START OF BYPASS PUMPING. THE CONTRACTOR WHEN AND WHERE REQUIRED, SHALL PROVIDE DIVERSION FOR THE REPLACEMENT PROCESS. THE PUMPS AND BYPASS LINE SHALL BE OF ADEQUATE CAPACITY AND SIZE TO HANDLE ALL FLOWS.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUITY OF SANITARY SEWER SERVICE DURING DURING THE EXECUTION OF THE WORK.
25. IF SEWAGE BACKUP OCCURS AND ENTERS BUILDINGS THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP, REPAIR, PROPERTY DAMAGE COST AND CLAIMS.
26. CONTRACTOR TO PROVIDE BYPASS SEWER PLAN TO THE CITY OF STOCKTON MUNICIPAL UTILITY DEPARTMENT TO MAINTAIN SERVICE DURING SEWER LINE REPLACEMENT. THE CONTRACTOR'S PLAN SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
    - A. LOCATIONS OF FLOW DIVERSION STRUCTURES, COLLAPSIBLE SEWER PLUGS, DAMS, PUMPS AND RELATED MATERIALS AND EQUIPMENT.
    - B. KEY OPERATIONAL CONTROL FACTORS (I.E. MINIMUM FLOW ELEVATIONS UPSTREAM AND DAMS).
    - C. PUMP SIZES AND FLOW RATES INCLUDING ALL RELATED CALCULATIONS.
    - D. DESTINATION OF BYPASS FLOWS INCLUDING ROUTING OF FORCE MAINS AND PROVISION FOR VEHICULAR AND PEDESTRIAN TRAFFIC AS NECESSARY.
    - E. MEANS OF MONITORING THE TEMPORARY BYPASS PUMPING SYSTEM TO ENSURE THAT NO OVERFLOWS OCCUR.
    - F. WET WEATHER EVENT PROCEDURES.
27. THE DESIGN, INSTALLATION AND OPERATION OF THE TEMPORARY BYPASS SYSTEM SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
28. CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, SUPERVISION AND MATERIALS NECESSARY TO REDUCE/CONTROL FLOWS VIA SEWAGE FLOW MECHANISMS OR ELIMINATE FLOWS VIA BYPASS PUMPING THROUGH A SECTION OR SECTIONS OF PIPE DESIGNATED FOR INSPECTION AND/OR REHABILITATION. ALL SEWER BYPASS SHALL BE PROVIDED AT CONTRACTOR'S EXPENSE.
29. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING AND MAINTAINING ALL FLOWS WITHIN THE SEWER SYSTEM DURING WORK. CONTRACTOR MAY DRAIN FLOWS BY PIPE CHASES, FLUMING, BYPASS PUMPING OR OTHER APPROPRIATE METHODS APPROVED BY THE CONSTRUCTION MANAGER.
30. PLUGGING OF ANY SEWER LINE WITHOUT BYPASSING SHALL NOT BE PERMITTED.
31. PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT FLOW CONTROL AND DEWATERING OPERATIONS SHALL NOT CAUSE FLOODING OR DAMAGE TO PUBLIC OR PRIVATE PROPERTIES. IN THE EVENT FLOODING OR DAMAGE OCCURS, THE CONTRACTOR SHALL MAKE PROVISIONS TO CORRECT SUCH DAMAGE AT NO ADDITIONAL COST TO THE CITY.
32. CONTRACTOR SHALL PLAN AND EXECUTE BYPASS PUMPING SUCH THAT NO SEWER SERVICES ARE INTERRUPTED OR AFFECTED IN ANY WAY. NO INTERRUPTION OR LOSS OF SEWER SERVICE IS ACCEPTABLE.
33. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE PUMPING EQUIPMENT, FORCE MAINS AND OTHER NECESSARY APPURTENANCES IN ORDER TO MAINTAIN RELIABLE SANITARY SEWER SERVICE IN ALL SANITARY SEWER LINES WITH THE POTENTIAL TO BE AFFECTED BY THE WORK. CONTRACTOR TO HAVE BACKUP PUMPS AND APPURTENANCES ON-SITE READY TO DEPLOY IMMEDIATELY.
34. ALL PIPING, JOINTS AND ACCESSORIES SHALL BE DESIGNED TO WITHSTAND AT LEAST TWICE THE MAXIMUM SYSTEM PRESSURE, OR A MINIMUM OF 50 P.S.I., WHICHEVER IS GREATER.

EROSION CONTROL

35. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF STOCKTON STANDARDS, AND THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPs) MANUAL.
36. PAVED AREAS WILL BE KEPT FREE OF EARTH MATERIALS AND DEBRIS YEAR ROUND. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
37. CONSTRUCTION ENTRANCES CONSISTING OF AGGREGATE ON GEOTEXTILE FABRIC SHALL BE PROVIDED AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED ROADS.
38. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
39. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES.
40. CONSTRUCTION SHALL BE CARRIED OUT IN SUCH A MANOR THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE COMPLIED WITH.
41. DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTORS EXPENSE. TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF THE CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE CITY OF STOCKTON.
42. TEMPORARY CONCRETE WASH OUT AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES OR WATERCOURSES.
43. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHALL BE BROKEN UP, REMOVED AND DISPOSED OF PER BMP WM-5, "SOLID WASTE MANAGEMENT", AND IN CONFORMANCE WITH THE PROVISIONS IN THE STATE STANDARD SPECIFICATIONS, SECTION 15-3.02, "REMOVAL METHODS". DISPOSE OF HARDEN CONCRETE ON A REGULAR BASIS.

LEGEND

- EX. CONCRETE
- EP — EX. EDGE OF PAVEMENT
- SS — EX. SANITARY SEWER LINE
- SS — PROPOSED PWPVC SANITARY SEWER LINE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED SILT FENCE PER DETAIL SE-1 OF THE CASQA BMP HANDBOOK



EROSION CONTROL PLAN
SCALE: 1" = 40'

SUBMITTALS			REVISIONS					
%	DATE		NO.	DESCRIPTION	DATE	BY	APRVD. BY

SCALE	NOTED
DESIGNED BY	M.P.K.
DRAWN BY	M.P.K
CHECKED BY	A.T.
F. B. NO.:	-
RECORD DWG:	-

REGISTERED PROFESSIONAL ENGINEER — ANTONIO S. TORRES — NO. C58703 — EXP. 12/31/13 — STATE OF CALIFORNIA
DATE: 2/14/13

CITY OF STOCKTON
MUNICIPAL UTILITIES DEPT.
2500 NAVY DRIVE
STOCKTON, CA 95206
PHONE: (209) 937-8700
WWW.STOCKTONGOV.COM

DATE: 01/31/13
ORIGINAL DRAWING SCALE: 0 1/2" 1"

MUNICIPAL UTILITIES DEPARTMENT
CITY OF STOCKTON, CALIFORNIA
APPROVED BY: DATE 2/14/13
ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES

HIGHWAY 99 WIDENING
SANITARY SEWER RELOCATIONS
SPECIFICATIONS & EROSION CONTROL PLAN

SHEET NO. 8
OF 8 SHEETS
PROJECT NO. M12015

1007X