GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS AND IMPROVEMENT STANDARDS, EXCEPT AS NOTED ON THESE PLANS.
2. THE CONTRACTOR SHALL BE IN RECEIPT OF APPROVED PLANS PRIOR TO BEGINNING ANY WORK OF PUBLIC IMPROVEMENTS.
3. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZE, LOCATION, AND DEPTH OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE ALL UNDERGROUND FACILITIES, HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN ON THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION TO BE UNKNOWN.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO THE COUNTY INSPECTOR IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE COUNTY, THE CONTRACTOR SHALL STOP WORK UNTIL MITIGATION CAN BE MADE. ANY COSTS INCURRED RESULTING FROM THE CONTRACTOR'S FAILURE TO STOP WORK AS DIRECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CALL "UNDERGROUND SERVICE ALERT" 1-800-227-2600 FORTY-EIGHT (48) HOURS BEFORE DIGGING.
6. ALL WORK SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE APPROPRIATE PUBLIC AGENCY OR OWNER. WORK SHALL NOT BE COVERED PRIOR TO INSPECTION AND APPROVAL. REJECTED WORK SHALL BE RE-DONE AT THE CONTRACTOR'S EXPENSE.
7. IF ANY ARCHAEOLOGICAL RESOURCES ARE FOUND DURING THE GRADING OF THE SITE OR DURING PERFORMANCE OF ANY EXCAVATION, WORK SHALL BE HALTED AND A QUALIFIED ARCHAEOLOGICAL FIRM SHALL BE CONSULTED FOR ADVICE.
8. AT THE CONCLUSION OF ITS WORK, THE CONTRACTOR SHALL REPAIR OR REPLACE IN KIND ALL DAMAGED PROPERTY (PUBLIC AND PRIVATE) FOR WHICH HE IS RESPONSIBLE (INCLUDING, BUT NOT LIMITED TO PAVEMENT AND FENCING). THE WORK SITE AND ADJACENT AREAS SHALL BE CLEANED UP. THIS REPAIR, REPLACEMENT, AND CLEAN-UP WORK SHALL BE SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE OWNER OR PUBLIC ENTITY AS IS APPROPRIATE. THE COST OF CORRECTIVE WORK REQUIRED FOR COMPLETION AND/OR ACCEPTANCE OF THE WORK NECESSITATED BECAUSE OF UNSATISFACTORY WORKMANSHIP OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE COST OF PROTECTION AND/OR REPAIR OF THE CONTRACTOR'S WORK AS AFFECTED BY STORM WATERS DURING INCLEMENT WEATHER SHALL BE THE CONTRACTOR'S RESPONSIBILITY UNTIL THE PUBLIC IMPROVEMENTS HAVE BEEN ACCEPTED BY THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PROPERTIES OR IMPROVEMENTS AS A RESULT OF NOT PROTECTING SUCH AREAS FROM STORM WATERS FLOWING OUT OF THE WORK AREA.
10. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, HE WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
11. BID SHALL INCLUDE ONE SET OF SURVEY STAKES AS REQUIRED TO CONSTRUCT ALL THE IMPROVEMENTS. STAKES DAMAGED OR LOST BY CONTRACTOR WILL BE REPLACED AT THE CONTRACTORS SOLE COST.
12. AN ENCROACHMENT PERMIT IS REQUIRED FOR ALL WORK ON PUBLIC PROPERTY AND SHALL BE OBTAINED BY THE CONTRACTOR.
13. CUNNINGHAM ENGINEERING CORPORATION HAS EXERCISED A REASONABLE AND ACCEPTABLE STANDARD OF CARE IN THE PREPARATION OF THESE PLANS, HOWEVER, THE DESIGN PROCESS INCLUDES ACTIVITIES OCCURRING AFTER PLAN SIGNATURE. THESE ACTIVITIES INCLUDE CALCULATIONS, PLAN CHECK AND VERIFICATIONS DURING CONSTRUCTION. SHOULD PERSONS OTHER THAN CUNNINGHAM ENGINEERING CORPORATION PERFORM THE CONSTRUCTION STAKING OPERATION, THEY SHALL INDEMNIFY CUNNINGHAM ENGINEERING CORPORATION FROM ANY DAMAGES RESULTING FROM FAILURE TO PERFORM THESE TASKS OR ANY EXPENSE OR DAMAGE RESULTING FROM OMISSION OR ERROR CONTAINED IN THE PLANS WHICH WOULD REASONABLY HAVE BEEN DISCOVERED AND CORRECTED BY CUNNINGHAM ENGINEERING CORPORATION.
14. UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
15. ALL UTILITY WORK INCLUDING ELECTRICAL, GAS, TELEPHONE AND CABLE TV SHALL BE SUBJECT TO AN ENCROACHMENT PERMIT. NORMALLY THE UTILITY COMPANIES OBTAIN SEPARATE PERMITS FOR THEIR WORK. IT IS THE RESPONSIBILITY OF THE APPLICANT TO ENSURE THAT THIS HAS BEEN DONE PRIOR TO BEGINNING WORK.
16. THE EXISTING TOPOGRAPHY (AS SHOWN) IS BASED ON TOPOGRAPHIC SURVEYS PREPARED BY POINT CO., DATED MAY 1, 2013, AND PROVIDED BY TEICHERT AGGREGATES ON OCTOBER 2, 2013. THE CONTRACTOR SHALL FIELD VERIFY CURRENT SITE CONDITIONS.
17. TOPOGRAPHY SHOWN APPROXIMATELY 150' WEST OF THE SOUTH BIRD ROAD RIGHT-OF-WAY IS FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION.
18. THE CONTRACTOR SHALL CONTACT THE SAN FRANCISCO PUBLIC UTILITY COMMISSION AND COORDINATE WORK OCCURRING WITHIN THE SFPUC PROPERTY.
19. ALL EXISTING UTILITY SURFACE FEATURES TO REMAIN SUCH AS VALVE BOXES, CATCH BASINS OR MANHOLE LIDS WITHIN THE AREA OF WORK SHALL BE ADJUSTED OR RECONSTRUCTED BY THE CONTRACTOR TO THE FINISH GRADES AS SHOWN ON THESE PLANS, UNLESS OTHERWISE NOTED.
20. THE CONTRACTOR SHALL CONDUCT OPERATIONS IN ACCORDANCE WITH COUNTY REQUIREMENTS IN REGARD TO NOISE CONTROL, TRUCK ROUTES, AND HOURS OF OPERATIONS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION.
22. CONTRACTOR SHALL SALVAGE AND REINSTALL AT THE COMPLETION OF THE PROJECT ANY SIGNS THAT ARE TO BE REMOVED TEMPORARILY DURING CONSTRUCTION OF THE PROJECT.
23. TUNNEL IS SUBJECT TO MINOR CHANGES IN LOCATION AND ALIGNMENT BASED ON FINAL CONVEYOR LOCATION. CONTRACTOR SHALL VERIFY IN FIELD PRIOR TO CONSTRUCTION.

EARTHWORK AND PAVING

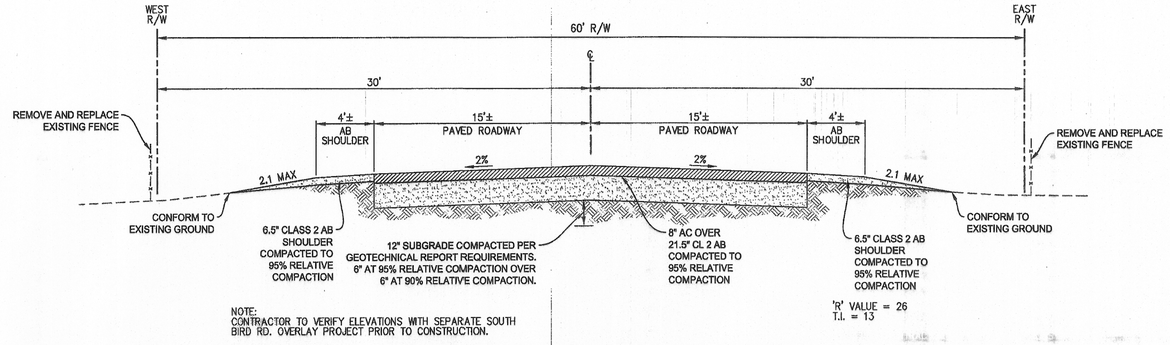
1. ALL EARTHWORK OPERATIONS AND TESTING OF SOILS COMPACTION SHALL BE IN ACCORDANCE WITH THE SOILS REPORT PREPARED BY KLEINFELDER (JOB NO. 138181) DATED JANUARY 6, 2014, AND ADDENDUM DATED FEBRUARY 3, 2014. COPIES OF THIS REPORT ARE AVAILABLE AT THE OFFICE OF THE ENGINEER. THE OWNER SHALL RETAIN THE SERVICES OF A SOILS ENGINEER. THE SOILS ENGINEER SHALL BE PRESENT DURING GRADING. RESULTS OF ALL SOILS TESTING SHALL BE SUBMITTED TO THE OWNER BY THE SOILS TESTING COMPANY UPON COMPLETION OF GRADING OPERATIONS.
2. ALL CONSTRUCTION AND MATERIALS FOR PAVING WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS AND DETAILS. WHERE DISCREPANCIES EXIST, APPROPRIATE NOTES ADDED TO PLANS SHALL TAKE PRECEDENCE OVER THE STANDARD CONSTRUCTION SPECIFICATIONS.
3. EXISTING ASPHALTIC CONCRETE SURFACE SHALL BE CUT TO A NEAT STRAIGHT LINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RE-COMPACTED, AND RE-SEALED PRIOR TO PAVING.
4. TUNNEL EXCAVATION, BEDDING, AND BACKFILL, INCLUDING COMPACTION, SHALL BE IN COMPLIANCE WITH THE SOILS REPORT RECOMMENDATIONS, MATERIAL MANUFACTURER SPECIFICATIONS, CALIFORNIA STATE REGULATIONS, AND SAN JOAQUIN COUNTY SPECIFICATIONS. IF IN CONFLICT, THE SOILS ENGINEER SHALL DETERMINE WHICH STANDARD SHALL GOVERN.
5. BRACING AND SHORING, IF REQUIRED, SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION SAFETY ORDERS OF THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY.
6. STRAIGHT GRADE BETWEEN ELEVATIONS SHOWN ON THE PLANS.

CONCRETE CONSTRUCTION

1. ALL CONCRETE SHALL CONFORM TO SECTION 40 & SECTION 90 OF THE CALTRANS STANDARD SPECIFICATIONS AND THE MOST CURRENT ACI STANDARDS WITH RESPECT TO MATERIALS, MIXING, HAULING, PLACEMENT, FINISHING, AND CURING.
2. CONCRETE MIX SHALL HAVE A 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. A CURING COMPOUND SHALL BE APPLIED TO THE POURED SURFACES TO CONTAIN MOISTURE DURING THE CURING PROCESS.
3. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 1/4 INCH RADIUS UNLESS OTHERWISE SHOWN.
4. FORMS SHALL BE STAKED OFTEN ENOUGH TO ENSURE STRAIGHT FINISHED CONCRETE EDGES.
5. ALL TUNNEL CONCRETE SHALL BE LIGHT BROOM FINISHED. SOUTH BIRD RD. CONCRETE SHALL BE GROOVE FINISHED PER CALTRANS STANDARDS.
6. FINISH SURFACES SHALL BE EVEN, UNIFORM IN COLOR, AND NOT PITTED OR OTHERWISE MARRED.
7. CONCRETE PLACED ADJACENT TO EXISTING CONCRETE SHALL BE DOWELED WITH #4 x 12" REBAR AT 18" ON CENTER.

EROSION CONTROL

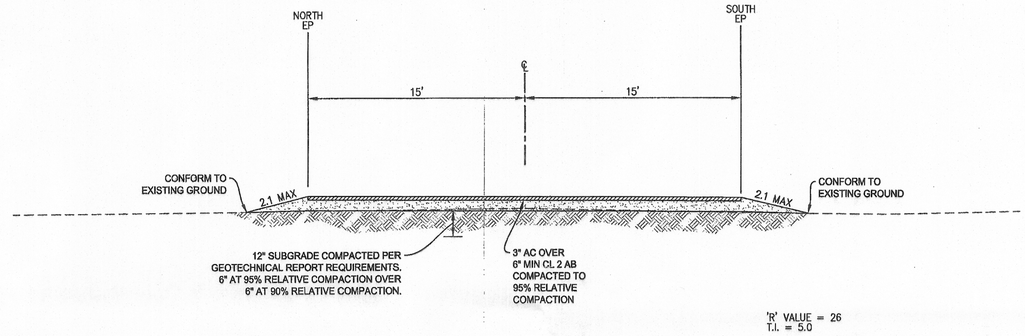
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN. THE FACILITIES SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED CONDITIONS. THEREFORE, DURING THE CONSTRUCTION PERIOD, CHANGES TO THE EROSION CONTROL PLAN SHALL BE MADE AS NEEDED TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE STORM DRAINAGE SYSTEMS OR VIOLATE APPLICABLE WATER QUALITY STANDARDS. THE EROSION CONTROL DEVICES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO GRADING ACTIVITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION, CONTINUAL INSPECTION AND MAINTENANCE, REPLACEMENT, AND UPGRADING OF THE EROSION CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETED AND APPROVED.
3. TEMPORARY EROSION CONTROL DEVICES WHICH INTERFERE WITH CONSTRUCTION WORK MAY BE RELOCATED OR MODIFIED TO MEET FIELD CONDITIONS. HOWEVER, ALL REMOVABLE PROTECTION DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS PROBABLE. AFTER EACH SIGNIFICANT RAIN STORM EVENT SILT AND DEBRIS SHALL BE REMOVED FROM THE EROSION CONTROL DEVICES AND THE DEVICES REPAIRED AS NEEDED.
4. ADJACENT PROPERTIES SHALL BE PROTECTED FROM STORM WATER, MUD, SILT, ETC.
5. ALL LOOSE SOIL, EXCESS MATERIAL, AND DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE UPON STARTING OPERATIONS. THE CLEANING OF PAVED STREETS BEFORE, DURING, AND AT THE COMPLETION OF CONSTRUCTION SHALL BE PERFORMED WITH MECHANICAL SWEEPERS. THE USE OF WATER TRUCKS TO "WASH DOWN" THE STREET IS PROHIBITED. STREETS NEED TO BE VISUALLY MONITORED DAILY FOR TRACK-OUT AND CLEANED AS SOON AS REASONABLY POSSIBLE.
6. AN EFFECTIVE DUST CONTROL PROGRAM SHOULD BE IMPLEMENTED WHENEVER EARTH-MOVING ACTIVITIES OCCUR ON THE PROJECT SITE. IN ADDITION, ALL DIRT LOADS EXITING A CONSTRUCTION SITE WITHIN THE PROJECT AREA SHOULD BE WELL WATERED AND/OR COVERED AFTER LOADING.
7. APPLY WATER OR DUST PALLIATIVES ON EXPOSED EARTH SURFACES AS NECESSARY TO CONTROL DUST EMISSIONS. CONSTRUCTION CONTRACTS SHALL INCLUDE DUST CONTROL TREATMENT IN LATE MORNING AND AT THE END OF THE DAY, OF ALL EARTH SURFACES DURING CLEARING, GRADING, EARTH MOVING, AND OTHER SITE PREPARATION ACTIVITIES. NON-POTABLE WATER SHALL BE USED, WHERE FEASIBLE. EXISTING WELLS SHALL BE USED FOR ALL CONSTRUCTION PURPOSES WHERE FEASIBLE. EXCESSIVE WATERING WILL BE AVOIDED TO MINIMIZE TRACKING OF MUD FROM THE PROJECT ONTO STREETS.



NOTE:
CONTRACTOR TO VERIFY ELEVATIONS WITH SEPARATE SOUTH BIRD RD. OVERLAY PROJECT PRIOR TO CONSTRUCTION.

TYPICAL SECTION - SOUTH BIRD RD TUNNEL EXCAVATION REPAIR

NTS



TYPICAL SECTION - TEMPORARY BYPASS

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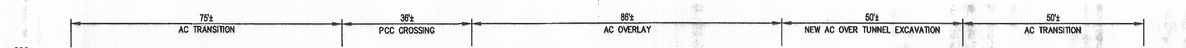

SOUTH BIRD ROAD CENTERLINE PROFILE

1"=20'

DATE SIGNED: 9/5/14

THESE DRAWINGS ARE NOT CONSIDERED FINAL UNTIL THE ENGINEER'S SEAL BELOW HAS BEEN SIGNED AND DATED.

REGISTERED PROFESSIONAL ENGINEER STEVEN C. GREENFIELD No. C30880 CIVIL STATE OF CALIFORNIA

REVISIONS			
NO.	DESCRIPTION	DATE	BY
△			

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

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TEICHERT VERNALIS
SOUTH BIRD ROAD CONVEYOR CROSSING
NOTES AND DETAILS

DESIGNED BY NC
DRAWN BY NC
CHECKED BY SG
SCALE AS SHOWN

SHEET C2.0 OF 4

DATE: 9/8/2014

1363.01

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