APPENDIX D: Salt Creek Improvement Plan

2. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN HEREON. HOWEVER THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UNDERGROUND SERVICE ALERT (PHONE 1-BD0-422-4133) TWO (2) WORKING DAYS IN ADVANCE OF ANY EXCAVATION OF COMMENCEMENT OF WORK. FOR ANY QUESTIONS REGARDING THE MARK OUT OF UNDERGROUND UTILITIES, THE CONTRACTOR SHOULD CONTACT THE RESPECTIVE UTILITY COMPANY:

STREET LIGHT OR SIGNAL LIGHT CONDUIT CITY OF CHULA VISTA (619)397-6166 SEWER OR STORM DRAIN CITY OF CHULA VISTA (619)397-60DD VERIFICATION (619)397-60DD NOTIFICATION GAS AND ELECTRIC SAN DIEGO GAS & ELECTRIC (619)23D-78DD WATER (619)67D-2222 OTAY WATER DISTRICT SAN DIEGO COUNTY WATER AUTHORITY (B5B)522-69DD TELEPHONE (619)266-46B3 PACIFIC BELL (619)263-9251 **TELEVISION** COX CABLE OF SAN DIEGO **TELEVISION** ULTRONICS (619)476-D177

- 3. CITY OF CHULA VISTA INSPECTION NOTICE:
- A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE CITY ENGINEER 2 WORKING DAYS IN ADVANCE OF COMMENCEMENT OF WORK. PHONE: (619)397-612B.
- B. THE CONTRACTOR SHALL GIVE 24 HOURS NOTICE (ONE WORKING DAY) NOTICE DN ALL CALLS FOR INSPECTION, PHONE: (619)397-612B.
- C. ANY WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL AT CONTRACTOR'S EXPENSE.
- D. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND WORK PRIOR TO THE EXCAVATION FOR INSTALLATION OF NEW UNDERGROUND WORK.

4. NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS DURING CONSTRUCTION OPERATIONS

5. ALL UTILITIES SHALL HAVE A MINIMUM OF 9D% RELATIVE COMPACTION IN ALL TRENCH BACKFILL.

6. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK OR PROPOSED IMPROVEMENTS; AND IF DESTROYEO, A LAND SURVEYOR, OR A CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING SHALL REPLACE SUCH MONUMENTS WITH THE APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF CHULA VISTA FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST (3) DAYS PRIOR TO THE CONSTRUCTION. THE DEVELOPER/CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

7. AS-BUILT DRAWINGS: A SET OF BLUELINE PRINTS AND A SET DF SPECIFICATIONS SHALL BE KEPT AT ALL TIMES ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL UTILITIES, ARE TO BE RECORDED

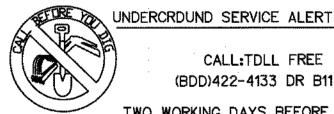
B. CONTRACTOR SHALL FURNISH TO THE ENGINEER OF WORK AS-BUILT PLANS FOR ALL NEW IMPROVEMENTS SHOWN ON THESE PLANS FOR SUBMITTAL TO THE CITY ENGINEER FOR

9. THE OWNER MUST OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (D.O.S.H.) PRIOR TO THE START OF CONSTRUCTION.

1D. DUST CENERATED BY CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE LOCAL DUST CONTROL AND UNIFORM BUILDING CODE (UBC) REQUIREMENTS WHICH INCLUDE DUST CONTROL MEASURES FOR CONSTRUCTION SITES. DUST REDUCING MEASURES SHALL INCLUDE RECULAR WATERING OF GRADED SURFACES AND RESTRICTION OF ALL CONSTRUCTION VEHICLES AND EQUIPMENT TO TRAVEL ALONG ESTABLISHED AND RECULARLY WATERED ROADWAYS.

DIG ALERT NOTICE

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES THAT DIC ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIC ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-8DD-422-4133 AT LEAST TWO WORKING DAYS BEFORE YOU DIG.

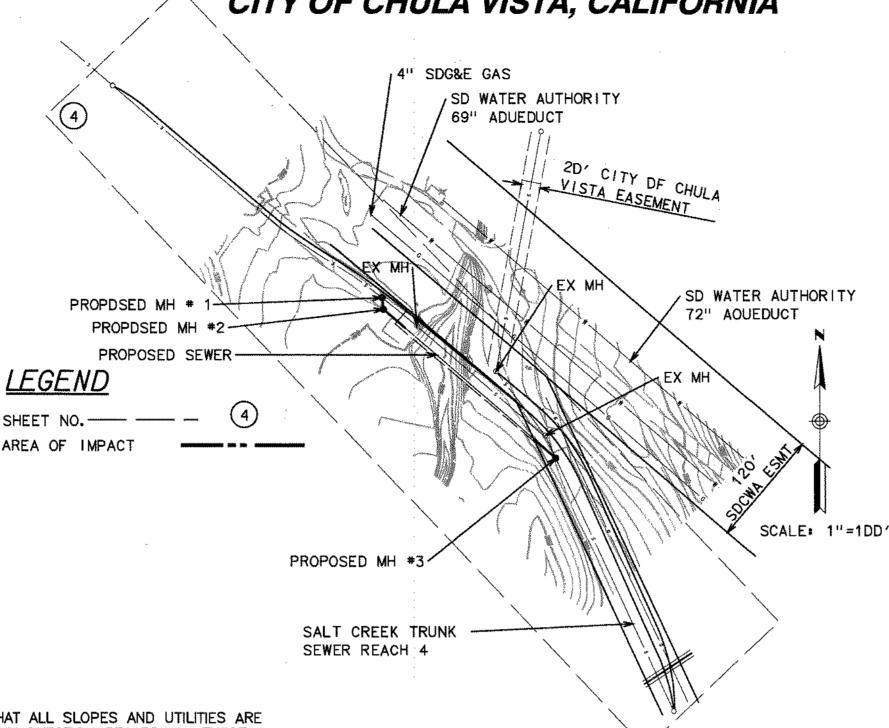


CALL:TDLL FREE (BDD)422-4133 DR B11

TWO WORKING DAYS BEFORE YDU DIG

"CAUTION": REMEMBER THAT THE USA CENTER NOTIFIES ONLY THOSE UTILITIES BELDNGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL INFORM YOU OF WHOM THEY WILL NOTIFY.

IMPROVEMENT PLANS FOR: SALT CREEK SEWER CITY OF CHULA VISTA, CALIFORNIA



ASSESSORS PARCEL 643-D70-10

SPECIAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES AND UTILITIES ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK AT (619)291-D7D7 AND THE CITY INSPECTOR CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM CONTRACTOR'S OPERATIONS BY APPROPRIATE MEANS (SAND BACS, HAY BALES, TEMPORARY DESILTING BASINS. SILT FENCES, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE TOTAL PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.

2. CONTRACTOR WILL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.

LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET (OR AVOIDED) BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR SHALL REFORT TO THE ENCINEER OR CITY INSPECTOR ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND THE PLANS.

BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS.

5. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS

6. CONTRACTOR AGREES: TO 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 OWNER, THE ENCINEER AND THE CITY OF CHULA VISTA HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLECED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING THEREFROM LIABILITY ARISING FROM THE SOLE NECLICENCE OF THE OWNER OR THE ENCINEER OR THE CITY OF CHULA VISTA.

7. IF REQUIRED CONTRACTOR IS RESPONSIBLE FOR HAVING TRAFFIC CONTROL PLANS APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCING ANY WORK IN THE PUBLIC RIGHT OF WAY.

8. CONTRACTOR SHALL REPAIR ALL DESTROYED OR DAMACED EXISTING SURFACE IMPROVEMENTS WITH IMPROVEMENTS EQUAL OR SUPERIOR.

BENCH MARK

BENCHMARK, INDEX NO. 1750. DESCRIPTION: BRASS DISK IN WELL

Y CHULA VISTA VERTICAL CONTROL

Horizonta AS SHDWN

INGINEER

9. ALL DEMOLISHED MATERIAL AND TRENCH SPOILS SHALL BE REMOVED FROM THE JOB SITE TO AN APPROVED DISPOSAL SITE.

10. THE ENGINEER PREPARINC THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANCES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE CITY

ENGINEER.

OWNERS CERTIFICATE:

IT IS ACREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS. IT IS FURTHER ACREED THAT THE OWNER (DEVELOPER) SHALL HAVE THE ENGINEER OF WORK MAKE SUCH CHANCES, ALTERATIONS OR ADOITIONS TO THESE PLANS, WHICH THE ENCINEER OF WORK DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS. ALL PLAN CHANGES SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONTRUCTION.

I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING CITY RIGHT-OF-WAY WITHIN 6D DAYS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL.

SLF IV/McMILLIN MILLENIA JV, LLC ADDRESS: 2750 WOMBLE ROAD, SUITE 20D SAN DIEGO, CA 92106 TEL (619)477-4117 FAX: (619)336-3D10 Do Maluel, SVP DATE: 3.12.14

ENGINEER OF WORK:

DISCIPLINE: CIVIL

Checked By

Orawn By

s former Supervision Of Oate

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF PLANS (SHEET 1 THROUGH 4) HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH SAID PLANS, APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT.

DATE:___ P.E. NO. 33D37 PRINTEO NAME: JOHN D. GODDARD JR.

DECLARATION OF RESPONSIBLE CHARGE:

I HEREBY OECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 67D3 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE OESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF THE PROJECT ORAWINGS AND SPECIFICATIONS BY THE CITY OF CHULA VISTA IS CONFINED TO REVIEW ONLY AND OOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

MY RECISTRATION EXPIRES: D6/3D/14

RICK ENGINEERING COMPANY 562D\FRIARS\ROAD SAN DIEGO, CA 9211 R.O.E. 33037 EXP. D6/30/14

Submitted_

Office SH

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (MAY 2DD6) COMMONLY REFEREED TO AS THE "GREEN BOOK," SAN DIEGO REGIONAL SUPPLEMENT AMENOMENTS (2D06), SAN DIEGO AREA REGIONAL STANDARO DRAWINGS (AUGUST 2D12), STATE OF CALIFORNIA OEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS (MAY 2D1D) AND STANOARD SPECIFICATIONS (MAY 2DD6). STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS (JAN 2D1D), OESIGN AND CONSTRUCTION STANDARDS OF THE CITY OF CHULA VISTA (2D10), ANO CITY OF CHULA VISTA STANDARD SPECIAL PROVISIONS (2DD8), ALL AS ADOPTED BY THE CITY OF CHULA VISTA, ARE MADE PART OF THE SPECIFICATIONS. ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY REQUEST FOR INSPECTION.

LEGEND

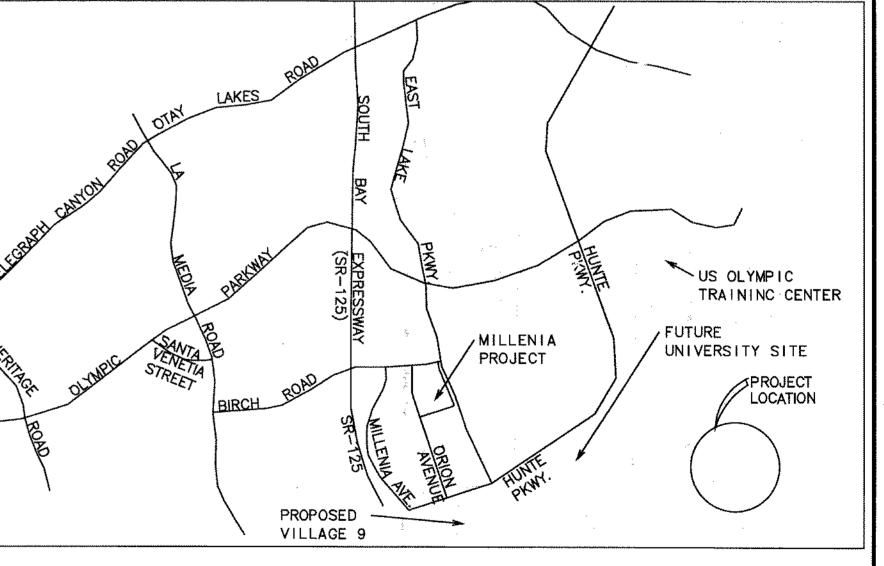
5' SEWER MANHDLES.D.A.R.S.D. NOS. SM-2, SM-3, SM-4, SM-5, SM-7, M-4	
EXISTING SEWER MANHOLE MAINAS SHOWN	S
SEWER MAIN(SIZE, CLASS & TYPE PER PLAN)S.D.R.S.D. NO. SP-2	
ENVIRDNMENTALLY CLEARED FDDTPRINT	
SDG&E RIGHT-DF-WAY LINE	

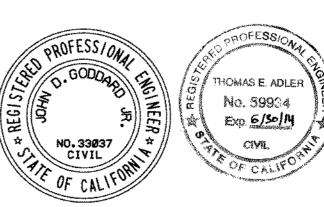
SEWER NOTES:

- SEWER SHOWN ON THESE PLANS IS P.V.C. SEWER PIPE PER ASTM D-3D34 TYPE C9D5, UNLESS OTHERWISE NOTED, WITH MINIMUM PIPE STIFFNESS DF 46 WHEN TESTED AT FIVE (5) PERCENT DEFLECTION. GRAVITY P.V.C. SEWER SHALL HAVE A 3/4-INCH MAXIMUM CRUSHED ROCK BACKFILL TO ONE FDOT ABOVE THE PIPE.
- 2. AS AN ALTERNATE TO P.V.C. AN A.B.S. CDMPDSITE SEWER PIPE CDNFORMING TO ASTM D-26BD WITH TYPE S.C. COUPLERS MAY BE USED IN SIZES EIGHT (B) INCHES AND ABOVE. FOUR (4) OR SIX (6) INCH PIPES SHALL BE ABS. SOLID WALL WITH F/DY NDT LESS THAN 15D PSI PER ASTM D-2751
- SEWER CONTRACTOR SHALL MAKE CERTAIN THAT ALL MANHOLES ARE CONSIQUETED IN EXACT LOCATION SHOWN, AND WITH THE OFFSET CONE POSITIONED AWAY FROM SURVEY MONUMENT LOCATION ADJACENT
- 4. THE PIPE BEDDING SHALL BE IN ACCORDANCE WITH REGIDNAL STANDARD DRAWING NO. S-4 (TYPE C).
- THE P.V.C. AND A.B.S. PIPE CONNECTIONS TO MANHOLES SHALL HAVE MANHOLE WATER STOP GASKETS AT EACH CONNECTION TO MANHOLES. THESE WATER STOP GASKETS SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT PRICE BID FOR MANHDLES.
- PIPE CDNNECTION TO MANHOLE (MH) SHALL CDMPLY WITH REGIONAL STANDARDS.

TRAFFIC CONTROL

IF THE NEED FOR TRAFFIC CONTROL BECOMES APPARENT AFTER THE ISSUANCE OF A PERMIT OR START OF WORK, THE INSPECTION SECTION MAY REQUIRE THE PREPARATION OF SUCH A PLAN. IF SUCH A DETERMINATION IS MADE BY THE INSPECTION SECTION, UPON NOTIFICATION OF THE SUPERINTENDENT OF THE JOB IN QUESTION, WORK IN THE RIGHT OF WAY SHALL CEASE UNTIL SUCH TIME AS TRAFFIC CONTROL PLANS HAVE BEEN APPROVED BY TRAFFIC ENGINEERING.





3/19/14

Ton Adler

Principal Civil Engineer

Approved_

ND SCALE

TOTAL SHEETS = 4

CITY OF CHULA VISTA **DEVELOPMENT SERVICES** Orawing No PLANS FOR THE IMPROVEMENT OF SEWER & TEMPORARY HI-LINE: 13045-SALT CREEK SEWER W.O.No. PC2232

AS BUILT OATE: SIGNEO PRINT NAME : JOHN O. GODDARD, JR. P.E. NO. 33D37 REGISTRATION EXPIRES DISCIPLINE CIVIL

5620 FRIARS ROAD

SAN DIEGO, CA 92110 619.291.0707 (FAX)619,291,4165

J-16629M

REVISIONS

rickengineering.com ngineering Compan verside - Orange - San Luis Obispo - Bakersfield - Sacramento - Phoenix - Tucsor CONSTRUCTION RECORO REFERENCES

ORW NO. 96-64 Contractor.

Inspector... Oate Completed. Re \16829\CIvII_18629-M-SqitCreek\Sewer_pian\18629_aewer-pian-eht_01.dgn

FDR ANY WDRK PROPDSED TO BE INITIATED BETWEEN FEBRUARY 15 AND AUGUST 15, PRIDR TD ISSUANCE DF ANY LAND DEVELOPMENT PERMITS. INCLUDING CLEARING, GRUBBING, GRADING, AND CONSTRUCTION PERMITS ASSDCIATED WITH IMPROVEMENTS TO THE DFF-SITE SCSL, A PRECONSTRUCTION SURVEY FOR THE CDASTAL CALIFORNIA GNATCATCHER MUST BE PERFORMED IN DRDER TO REAFFIRM THE PRESENCE AND EXTENT OF DCCUPIED HABITAT. THE PRE-CONSTRUCTION SURVEY AREA FOR THE CDASTAL CALIFORNIA GNATCATCHER SHALL ENCOMPASS ALL HABITAT WITHIN THE PROJECT WORK ZONE AS WELL AS A 3DD-FODT BUFFER EXTENDING FROM THE STUDY AREA AS DELINEATED DN FIGURE 5 OF THE HELIX BIDLDGICAL TECHNICAL REPORT.

THE PRE-CONSTRUCTION SURVEY MUST BE PERFORMED TO THE SATISFACTION DF THE ENVIRDNMENTAL REVIEW COORDINATOR (ERC) BY A QUALIFIED BIDLDGIST FAMILIAR WITH THE CITY'S MSCP SUBAREA PLAN. THE RESULTS DF THE PRE-CONSTRUCTION SURVEY MUST BE SUBMITTED IN A REPORT TO THE ERC FOR REVIEW AND APPROVAL PRIDE TO THE ISSUANCE OF ANY LAND DEVELOPMENT PERMITS AND PRIDR TO INITIATING ANY CONSTRUCTION ACTIVITIES. IF THE CDASTAL CALIFORNIA GNATCATCHER IS DETECTED, A MINIMUM 3DD-FDDT BUFFER OELINEATEO BY DRANGE BIOLDGICAL FENCING SHALL BE ESTABLISHED ARDUND THE DETECTED SPECIES TO ENSURE THAT NO WORK SHALL DCCUR WITHIN THE OCCUPIED HABITAT FROM FEBRUARY 15 THROUGH AUGUST 15 AND DN-SITE NOISE REDUCTION TECHNIQUES SHALL BE INCORPORATED, AS APPROPRIATE. THE ERC SHALL HAVE THE DISCRETION TO MODIFY THE BUFFER WIOTH DEPENDING DN SITE-SPECIFIC CONDITIONS. IF THE RESULTS OF THE PRE-CONSTRUCTION SURVEY DETERMINE THAT THE SURVEY AREA IS UNOCCUPIED, THE WORK MAY COMMENCE AT THE DISCRETION OF THE ERC FOLLOWING THE REVIEW AND APPROVAL OF THE PRE-CDNSTRUCTION REPORT.

MITIGATION MEASURE 4.7-5:

PRIDR TD ISSUANCE OF LAND DEVELOPMENT PERMITS, INCLUOING CLEARING. GRUBBING, GRAOING AND CONSTRUCTION PERMITS FOR THE OFF-SITE SCSL PROJECT. THE APPLICANT SHALL PROVIDE A REVEGETATION PLAN FOR D.16 ACRE OF OIEGAN CDASTAL SAGE SCRUB TO THE SATISFACTION OF THE CITY'S ENVIRONMENTAL REVIEW CODRDINATOR (ERC). THE REVEGETATION PLAN MUST BE PREPARED BY A DUALIFIED CITY-APPROVEO BIDLOGIST FAMILIAR WITH THE CITY'S MSCP SUBAREA PLAN AND MUST INCLUDE, BUT NOT BE LIMITEO TO, AN IMPLEMENTATION PLAN; APPROPRIATE SEED MIXTURES AND PLANTING METHDO: IRRIGATION METHDO: QUANTITATIVE AND QUALITATIVE SUCCESS CRITERIA; MAINTENANCE, MONITORING, AND REPORTING PROGRAM; ESTIMATEO COMPLETION TIME; AND CONTINGENCY MEASURES. THE APPLICANT SHALL ALSD BE REQUIRED TO IMPLEMENT THE REVEGETATION PLAN SUBJECT TO THE DVERSIGHT AND APPROVAL OF THE ERC

MITIGATION MEASURE 4.7-6:

PRIDR TD ISSUANCE DF LAND OEVELDPMENT PERMITS, INCLUOING CLEARING OR GRUBBING AND GRADING AND/OR CONSTRUCTION PERMITS FOR THE DFFSITE SCSL, THE APPLICANT SHALL INSTALL FENCING IN ACCORDANCE WITH CVMC 17.35.030. PROMINENTLY CDLORED, WELL-INSTALLED FENCING AND SIGNAGE SHALL BE IN PLACE WHEREVER THE LIMITS OF GRADING ARE ADJACENT TD SENSITIVE VEGETATION COMMUNITIES OR OTHER BIDLDGICAL RESDURCES, AS IDENTIFIED BY THE QUALIFIED MONITORING BIOLOGIST. FENCING SHALL REMAIN IN PLACE DURING ALL CONSTRUCTION ACTIVITIES.AL TEMPDRARY FENCING SHALL BE SHOWN ON GRAOING PLANS FOR THE OFF-SITE SCSL. PRIOR TD RELEASE DF GRADING ANO/DR IMPROVEMENT BDNDS, A QUALIFIEO BIDLDGIST SHALL PROVIOE EVIDENCE THAT WORK WAS CONOUCTED AS AUTHORIZED UNOER THE APPROVEO LAND OEVELOPMENT PERMIT AND ASSDCIATEO PLANS.

MITIGATION MEASURE 4.7-7:

A BIDLDGICAL MONITOR SHALL ATTEND ALL PRE-CONSTRUCTION MEETINGS AND BE PRESENT DURING THE REMDVAL OF ANY VEGETATION ASSOCIATED WITH THE MDOIFICATIONS TO THE OFF-SITE SCSL. PRIDR TO ISSUANCE DF LAND DEVELOPMENT PERMITS, INCLUDING CLEARING OR GRUBBING AND GRADING AND/DR CONSTRUCTION PERMITS FOR THE SCSL PROJECT, THE APPLICANT SHALL PROVIDED WRITTEN CONFIRMATION THAT A CITY-APPROVED BIDLOGICAL MONITOR HAS BEEN RETAINED AND SHALL BE ON-SITE OURING CLEARING. GRUBBING, AND/OR GRADING ACTIVITIES TO ENSURE THAT THE APPROVEO LIMITS OF DISTURBANCE ARE NOT EXCEEDED AND PROVIDE PERIODIC MDNITORING OF THE IMPACT AREA INCLUOING, BUT NOT LIMITED TO TRENCHES, STOCKPILES, STDRAGE AREAS, AND FENCING, THE BIDLDGICAL MONITOR SHALL ALSO BE ON-SITE DURING THE PLACEMENT AND REMOVAL OF THE PROPOSEO HIGH LINE TO ENSURE THAT REMOVAL OR DAMAGING DF NATIVE VEGETATION DOES NOT DCCUR. THE BIOLDGICAL MONITOR SHALL BE AUTHORIZEO TO HALT ALL ASSOCIATED PROJECT ACTIVITIES THAT MAY BE IN VIDLATION OF THE CITY'S MSCP SUBAREA PLAN.

MITIGATION MEASURE 4.7-8:

PRIDR TD ISSUANCE DF LANO OEVELDPMENT PERMITS, AND PRIDR TD CONSTRUCTION ACTIVITIES OCCURRING IN AREAS CONTAINING SENSITIVE BIDLOGICAL RESDURCES WITHIN THE DFF-SITE SCSL, ALL WORKERS SHALL BE EDUCATED BY A CITY-APPROVEO BIDLOGIST TO RECOGNIZE AND AVDIO THDSE AREAS WHICH HAVE BEEN MARKED AS SENSITIVE BIDLDGICAL RESDURCES.

AS BUILT SIGNED P.E. NO. 33037 PRINT NAME : JOHN D. GDDDARD, JR. OISCIPLINE: CIVIL REGISTRATION EXPIRES:

SAN DIEGO, CA 92110 619.291.0707 (FAX)619.291.4165

J-16629M

MITIGATION MEASURE 4.7-12: (SEE "PERMIT NDTE")

PRIDR TD ISSUANCE DF LAND DEVELOPMENT PERMITS, INCLUDING CLEARING GRUBBING, GRADING AND CONSTRUCTION PERMITS FOR THE DFF-SITE SCSL. THE APPLICANT SHALL PROVIDE THE CITY WITH WRITTEN CONFIRMATION TO THE SATISFACTION OF THE CITY'S ENVIRONMENTAL REVIEW CODRDINATOR THAT THE RESDURCE AGENCIES HAVE BEEN NDTIFIED DF THE SCSL GRADING. THE APPLICANT SHALL ALSO BE RESPONSIBLE FOR DBTAINING ALL APPLICABLE REGULATORY PERMITS, SUCH AS THOSE REQUIRED UNDER SECTION 4D4 DF THE FEDERAL CLEAN WATER ACT, SECTION 16DD OF THE CALIFORNIA DEPARTMENT DF FISH ANO GAME CDDE, ANO PDRTER CDLOGNE WATER QUALITY ACT. IN ADDITION, PRIDR TO ISSUANCE DF ANY GRACING PERMITS ASSOCIATED WITH THE DFF-SITE SCSL, THE APPLICANT SHALL PREPARE A FRAC-DUT CONTINGENCY PLAN (FCP) TO THE SATISFACTION OF THE CITY ENGINEER AND THE CITY'S ERC. THE FCP SHALL ESTABLISH DPERATIONAL PROCEDURES AND RESPONSIBILITIES FOR THE PREVENTION, CONTAINMENT, NOTIFICATION, AND CLEAN-UP OF THE INADVERTENT RELEASE OF DRILLING FLUIO (FRAC-DUT) THAT CDULD PDTENTIALLY DCCUR WITH THE PROPOSED DIRECTIONAL DRILLING UNDER SALT CREEK. ISSUES ADDRESSED IN THE PLAN SHALL INCLUDE BUT NDT BE LIMITED TO:

1.SPDIL STDCKPILE MANAGEMENT;

- 2 HAZARDDUS MATERIALS STDRAGE AND SPILL CLEANUP;
- 3 .SITE-SPECIFIC ERDSION AND SEGIMENT CONTROL:

4.PRDCEDURES FDR TIMELY DETECTION DF FRAC-OUTS: ANO

ANY DTHER BMPS TO ENSURE PROTECTION OF SENSITIVE BIOLDGICAL RESOURCES IN THE ADJACENT PRESERVE AREAS ANO MINIMIZE WATER OUALITY IMPACTS AS DESCRIBED IN THE

IF A FRAC-OUT EVENT WERE TO OCCUR DURING THE BDRING AND JACKING PROCESS, WORK SHDULO CEASE IMMEDIATELY, AND MEASURES SHOULO BE TAKEN TO CONTAIN THE FRAC-OUT SLURRY IN AS SMALL AN AREA AS POSSIBLE. THE BIDLDGICAL MONITOR SHALL CONTACT THE CITY AND APPROPRIATE RESDURCE AGENCIES WITHIN 24 HDURS OF THE FRAC-DUT AND PRDVIDE AN INITIAL ASSESSMENT OF IMPACTS TO NATIVE VEGETATION. MITIGATION FOR THE IMPACTS WILL BE COORDINATED IN CONJUNCTION WITH THE CITY AND RESDURCE AGENCIES.

MITIGATION MEASURE 4.7-9:

PRIOR TO ISSUANCE OF LAND OEVELOPMENT PERMITS, INCLUOING CLEARING OR GRUBBING AND GRADING AND/DR CONSTRUCTION PERMITS FOR THE EUC PROJECT SITE (INCLUOING THE DFF-SITE SSA) DR SCSL, THE APPLICANT SHALL PROVICE WRITTEN CONFIRMATION THAT MITIGATION MEASURE 4.9.2 (HYDROLDGY ANO DRAINAGE), REQUIRING A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPOES) AND STDRM WATER PDLLUTION PREVENTION PLAN (SWPPP), HAS BEEN FULFILLED TO THE SATISFACTION DF THE CITY ENGINEER.

MITIGATION MEASURE 4.7-1D:

PRIDR TD ISSUANCE DF LAND OEVELOPMENT PERMITS, INCLUDING CLEARING DR GRUBBING AND GRADING ANO/DR CONSTRUCTION PERMITS FOR THE DFFSITE SSA, THE APPLICANT SHALL INSTALL TEMPDRARY ORANGE BIDLDGICAL FENCING ALDNG THE LIMITS OF GRADING IN AREAS AOJACENT TO SENSITIVE BIOLOGICAL RESDURCES TD AVDIO IMPACTS DN SUCH RESDURCES. ALL FENCING. INCLUOING TEMPORARY FENCING, SHALL BE SHOWN ON THE PROJECT GRADING PLANS. PRIOR TD AND DURING CONSTRUCTION, THE CITY'S MITIGATION MONITOR SHALL VERIFY THAT BIDLDGICAL FENCING IS PROPERLY INSTALLEO AND MAINTAINEO.

MITIGATION MEASURE 4.7-13:

TD AVOID ANY OIRECT IMPACTS TD RAPTDRS AND/DR ANY MIGRATDRY BIROS, REMDVAL DF HABITAT THAT SUPPDRTS ACTIVE NESTS DN THE PROPDSED AREA OF DISTURBANCE (WITHIN THE EUC PROJECT SITE, SCSL, OR SSA)
SHOULO OCCUR OUTSIDE DF THE BREEDING SEASON FOR THESE SPECIES
(JANUARY 15 TO AUGUST 31). IF REMOVAL OF HABITAT DN THE PROPOSED AREA OF DISTURBANCE (WITHIN THE EUC PROJECT SITE, SCSL, OR SSA) MUST OCCUR DURING THE BREEDING SEASON, THE APPLICANT SHALL RETAIN A CITY-APPROVEO BIDLDGIST TO CONOUCT A PRE-CONSTRUCTION SURVEY TO OETERMINE THE PRESENCE OR ABSENCE DF NESTING BIRDS DN THE PROPDSEO AREA OF DISTURBANCE. THE PRE-CONSTRUCTION SURVEY MUST BE CONOUCTED WITHIN 1D CALENDAR OAYS PRIDR TO THE START DF CDNSTRUCTION, THE RESULTS OF WHICH MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.

IF NESTING BIROS ARE DETECTED, A LETTER REPORT DR MITIGATION PLAN AS

OEEMED APPROPRIATE BY THE CITY, SHALL BE PREPARED AND INCLUDE PRDPDSEO MEASURES TO BE IMPLEMENTED TO ENSURE THAT OISTURBANCE DF BREEDING ACTIVITIES IS AVOIDED. THE REPORT DR MITIGATION PLAN SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL AND IMPLEMENTED TO THE SATISFACTION OF THE CITY. THE CITY5/32S MITIGATION MONITOR SHALL VERIFY AND APPROVE THAT ALL MEASURES IDENTIFIED IN THE REPORT OR MITIGATION PLAN ARE IN PLACE PRIOR TO AND/OR DURING CONSTRUCTION.

MITIGATION MEASURE 4.9-1:

PRIOR TO ISSUANCE OF EACH GRAOING PERMIT FOR THE EUC SPA PLAN. THE SSA, THE SALT CREEK SEWER LATERAL IMPROVEMENT, AND THE PDGGI CANYDN SEWER IMPRDVEMENT AREA OR ANY LAND OEVELOPMENT PERMIT, INCLUOING CLEARING AND GRADING, THE PROJECT APPLICANT(S) SHALL SUBMIT A NDTICE OF INTENT (NDI) AND OBTAIN CDVERAGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPOES) PERMIT FOR CONSTRUCTION ACTIVITY FROM THE STATE WATER RESOURCES CONTROL BOARD (SWRCB). THE PERMIT REQUIRES OEVELOPMENT OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MDNITORING PLAN THAT SHALL BE SUBMITTED TD THE CITY ENGINEER AND THE OIRECTOR OF PUBLIC WORKS. THE SWPPP SHALL BE INCORPORATED INTO THE GRAOING AND DRAINAGE PLANS AND SHALL PROVIDE FOR IMPLEMENTATION OF CONSTRUCTION AND POST-CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) DN SITE TD REDUCE THE AMDUNT DF SEDIMENTS AND PDLLUTANTS IN CONSTRUCTION AND PDST-CONSTRUCTION SURFACE RUNDFF BEFDRE IT IS DISCHARGED INTO DFF-SITE STORM WATER FACILITIES. THE BMPS SHALL INCLUDE MEASURES TO MITIGATE POTENTIALLY SIGNIFICANT INDIRECT IMPACTS TO THE JURISOICTIONAL FEATURE APPROXIMATELY 3DD FEET DDWNSTREAM DF THE OFF-SITE SOILS STDCKPILING AREA. THE GRADING PLANS SHALL NDTE THE CONDITION REDUIRING A SWPPP AND MONITORING PLANS.

MITIGATION FOR INDIRECT IMPACTS (BIOLOGICAL TECHNICAL REPORT, 7-2)

7.2 MITIGATION FOR INDIRECT IMPACTS

THE PROJECT IS A MODIFICATION OF A PLANNED FACILITY AND IS SUBJECT TD THE CITY'S ADJACENCY MANAGEMENT ISSUES (SECTION 7.5.2 DF THE CITY'S SUBAREA PLAN). THE FDLLDWING MEASURES WILL BE IMPLEMENTED TD MITIGATE POTENTIAL INDIRECT IMPACTS BOTH ON SITE AND WITHIN THE DFF SITE MITIGATION PARCELS FOR THE EASTERN DTAY RANCH DRAINAGE FACILITIES PRDJECT, HUNTE PARKWAY PRDJECT, AND DTAY RANCH VILLAGE 11 PROJECT RESULTING FROM THE PROJECT.

SIGNAGE: APPLICANT WILL INSTALL BARRIERS AND SIGNAGE WHERE NECESSARY TD DIRECT PUBLIC ACCESS AWAY FROM SENSITIVE RESDURCES WITHIN THE PROJECT AREA DURING CONSTRUCTION AND FOLLOW UP RESTORATION OF THE SITE.

DRAINAGE ISSUES: ND RELEASE DF TDXINS, CHEMICALS PETROLEUM PRODUCTS, EXDTIC PLANT MATERIALS DR DTHER ELEMENTS THAT MIGHT HARM OR OEGRAOE THE NATURAL ECDSYSTEM OF THE PRESERVE SHALL BE ALLDWED; THE APPLICANT WILL INCDRPDRATE BEST MANAGEMENT PRACTICES (BMP) STANDARDS AS OEFINED BY THE CITY'S STANOARO URBAN STDRM MITIGATION PLAN (SUSMP).

TDXIC SUBSTANCES: THE PROPDSEO PROJECT IS A SEWER BY-PASS AND ND TOXIC SUBSTANCES FROM AGRICULTURAL ANO/OR RECREATIONAL WILL BE RELEASED INTO THE PRESERVE.

NDISE: THE PRDJECT MAY HAVE INOIRECT EFFECTS (NDISE) DN NESTING BIRDS IF CONSTRUCTION, INCLUDING PUMPING ASSOCIATED WITH THE HIGH LINE, IS TAKE PLACE OURING GNATCATCHER NESTING SEASDN (FEBRUARY 15 THROUGH AUGUST 15), THE APPLICANT WILL CONOUCT A NESTING BIRO SURVEY PRIOR TO ANY GROUND CLEARING AND/DR GRDUNO DISTURBING ACTIVITIES. ACTIVE NEST WILL BE FLAGGED ANO NDISE REDUCTION TECHNIQUES WILL BE INCORPORATED TO REDUCE NDISE LEVELS TO BELDW SIGNIFICANT LEVELS. NO RESTRICTIONS ARE PLACED ON TEMPORARY CONSTRUCTION NOISE OUTSIDE THE BIRO BREEDING SEASON(S).

INVASIVES: ND INVASIVE NDN-NATIVE PLANT SPECIES WILL BE INTRODUCED INTO THE PRESERVE BY THIS PROJECT.

WITH IMPLEMENTATION OF THE MITIGATION MEASURES DUTLINED ABOVE, ALL IMPACTS TO BIDLOGICAL RESOURCES WILL BE MITIGATED TO BELDW A LEVEL OF SIGNIFICANCE.

PERMIT NOTE

PER THE SALT CREEK SEWER LATERAL BIDLDGICAL TECHNICAL REPORT PREPARED BY HELIX ENVIRONMENTAL PLANING INC. DATEO JANUARY 5, 2D09, ND AGENCY PERMITS (INCLUDING ACDE 4D4 PERMIT, CDFW 160Z PERMIT OR A RWCO 4D1 PERMIT) ARE REQUIRED FOR THIS PROJECT

CONSTRUCTION NOTES

1. GROUNOWATER MAY BE HIGH AND SEASDNALLY VARIABLE AT EXCAVATIONS. DEWATERING SYSTEMS SHALL EFFECTIVELY INTERCEPT AND REMDVE WATER FROM THE SURRDUNOING STRATA AND THUS PREVENT ITS ENTRY INTO THE EXCAVATION. THE EMPLOYMENT OF ANY OF THE AVAILABLE ALTERNATIVES TO ACHIEVE THIS DBJECTIVE MAY BE REQUIRED, RELIANCE SHALL NOT BE PLACED SOLELY DN SHEETING TO PROTECT WORK AREAS. THE ALTERNATIVE USE DF INTERLOCKING SHEET PILING WITH BRACES OR ANCHORAGE SUPPLEMENTED BY DEWATERING MEASURES OR OTHER MEANS WHICH MAY BE SUITABLE, SHALL BE PERMITTED THROUGH THE APPROPRIATE GOVERNING AGENCY.

2. IF GROUNOWATER IS ENCOUNTERED OURING CONSTRUCTION, THE CONTRACTOR SHALL USE DEWATERING MEASURES OR OTHER MEANS WHICH MAY BE SUITABLE. DEWATERING SHALL BE PERMITTED THROUGH THE APPROPRIATE GOVERNING AGENCIES.

3. SITE WILL BE ACCESSED BY EXISITING DIRT AND PAVED RDADS.

3. IF FEASABLE THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE CITY OF CHULA VISTA SEWER OFFARTMENT PRIOR TO DISCHARGING GROUNDWATER INTO THE ADJACENT SEWER SYSTEM.

HIGH LINE SEWER NOTES

1. CONTRACTOR SHALL SUBMIT A SEWER BYPASS HIGH LINE PLAN TO THE CITY ENGINEER FOR APPROVAL PRIOR TO PRE-CONSTRUCTION MEETING. SEWER BYPASS HIGH LINE PLAN SHALL INCLUOE LOCATIONS OF PUMPS, BACKUP PUMPS, HIGH LINES, FAILURE PROTECTION FACILITIES, ANY NECCESSARY EROSION CONTROL MEASURES, LOCATION OF ALL HABITAT AND MITIGATION LIMITS, ANO SIZE AND LOCATION OF JACKING AND RECEIVING PITS OR ANY DTHER INFORMATION DR FACILITIES AS REOLIREO BY RESIDENT ENGINEER.

2. CONTRACTOR SHALL DETERMINE THE FLOAT LEVELS FOR BYPASS PUMPING. THE PUMP STARTS AT THE HIGH WATER LEVEL(HWL), SHUTS OFF AT THE LOW WATER LEVEL (LWL). THE HIGH, HIGH WATER LEVEL (HHWL) SHALL BE SIGNIFICANTLY BELOW THE RIM OF THE MANHOLE TO GIVE THE CONTRACTOR ENDUGHT TIMETO REMEDY THE PROBLEM.

3. CONTRACTOR SHALL HAVE ONE DPERATIONAL PUMP AND ONE STANDBY PUMP AT ALL TIMES IN THE MANHOLE.

4. THE PROJECT FALLS UNDER CAL-OSHA JURISDICTION AND THE CONTRACTOR SHALL MAKE HIS PERSONNEL AWARE THAT THEY WILL BE EXPOSED TO RAW WASTEWATER DURING THIS CDNSTRUCTION PROJECT. THE CDNTRACTOR SHALL TAKE THE NECESARRY HEALTH PRECAUTIONS TO GUARD AGAINST CONTACT WITH THE RAW WASTEWATER. IT IS THE RESPONSIBILITY OF THE CDNTRACTOR TD PREVENT ANY SPILL DF RAW WASTEWATER AS A RESULT OF HIS DPERATIONS .

5. THE NEW SEWER MUST BE PRESSURE TESTED BEFORE BYPASSING INTO A NEW MANHOLE CAN CDMMENCE. ONCE THE NEWLY INSTALLED SEWER HAS PASSED, BYPASSING CAN BEGIN.

6. SEWER HIGH LINE WILL BE LAID ON GROUND SURFACE AND NOT INVOLVE ANY EXCAVATION DF SURFACE DISTURBANCE.

7. SEWER HIGH LINE WILL BE BRIDGED ACROSS CHANNEL WHERE NEEDED.

GROUT NOTES AND SPECIFICATIONS

MATERIALS

A. GROUT. THE GROUT MATERIALS SHALL CDNSIST DF PDRTLAND CEMENT (PORTLAND CEMENT AND FLY ASH) ANO/OR AOOITIVES.

B. COMPRESSIVE STRENGTH. THE GROUT SHALL HAVE A MINIMUM PENETRATION RESISTANCE OF 100 PSI IN 24 HDURS WHEN TESTEO IN ACCORDANCE WITH ASTM C 403 AND A MINIMUM COMPRESSIVE STRENGTH DF 3DD PSI IN 28 OAYS WHEN TESTED IN ACCDRDANCE WITH ASTM C 495 AND C 1D9.

C. PERFORMANCE REDUIREMENTS. THE GROUTING SYSTEM SHALL HAVE SUFFICIENT GAUGES, MONITORING DEVICES, ANO TESTS TO DETERMINE THE EFFECTIVENESS OF THE GROUTING OPERATION AND TO ENSURE COMPLIANCE WITH THE PIPE SPECIFICATIONS AND DESIGN PARAMETERS.

O. MIX OESIGNS. ONE DR MORE MIXES SHALL BE DEVELOPED TO COMPLETELY FILL THE ANNULAR SPACE BASED DN THE FOLLOWING REDUIREMENTS.

1. SIZE DF THE ANNULAR VDID.

2. SUFFICIENT STRENGTH AND DURABILITY TO PREVENT MOVEMENT OF THE CARRIER PIPE.

3. PRDVIOE AOEDUATE RETARDATION.

4. PRDVIOE LESS THAN 1 PERCENT SHRINKAGE BY VOLUME.

E. OENSITY. THE CONTRACTOR SHALL DESIGN A GROUT MIX WITH A DENSITY TO MEET THE REQUIREMENTS TO PREVENT FLOATING OF THE PIPE. THE APPARENT VISCOSITY SHALL NDT EXCEED 35 SECONOS IN ACCORDANCE WITH ASTM C 939.

EXECUTION

A. OUALIFICATIONS

THE CONTRACTOR SHALL PROVIDE REFERENCES OF PREVIOUS PROJECTS DEMONSTRATING TO THE ENGINEER ITS CAPABILITIES DF FILLER THE ANNULAR SPACE AND PERFDRMING WORK IN CONFORMANCE WITH THE PLANS AND THE SPECIFICATIONS.

B. GROUTING EQUIPMENT

THE MATERIALS SHALL BE MIXEO IN EDUIPMENT DF SUFFICIENT SIZE AND CAPACITY TO PROVIDE THE DESIRED AMOUNT DF GROUT MATERIAL FDR EACH STAGE IN A SINGLE OPERATION. THE EDUIPMENT SHALL BE CAPABLE DF MIXING THE GROUT AT DENSITIES REDUIREO FDR THE APPROVED PROCEDURE AND SHALL ALSO BE CAPABLE OF CHANGING DENSITY AS DICTATED BY FIELD CONDITIONS ANY TIME OURING THE GROUTING OPERATION.

C. INJECTION PROCEDURE AND PRESSURE

THE GAUGEO PUMPING PRESSURE SHALL NDT EXCEED THE LINER PIPE MANUFACTURER \$ S APPROVEO RECOMMENDATIONS. PUMPING EDUIPMENT SHALL BE OF A SIZE SUFFICIENT TO INJECT GROUT AT VELDCITY AND PRESSURE RELATIVE TD THE SIZE OF THE ANNULAR SPACE. GAUGES TO MONITOR GROUT PRESSURE SHALL BE ATTACHED IMMEDIATELY AOJACENT TO EACH INJECTION PORT. THE GAUGE SHALL CONFORM TO AN ACCURACY OF NO MORE THAN ONE-HALF PERCENT ERROR OVER THE FULL RANGE OF THE GAUGE. THE RANGE OF THE GAUGE SHALL NOT BE MORE THAN 100 PERCENT GREATER THAN THE OESIGN GROUT PRESSURE. PRESSURE GAUGES SHALL BE INSTRUMENT OIL FILLEO ANO ATTACHED TD A SAOOLE-TYPE OIAPHRAGM SEAL (GAUGE SAVER) TO PREVENT CLOGGING WITH GROUT, ALL GAUGES SHALL BE CERTIFIED AND CALIBRATED IN ACCORDANCE WITH ANSI 840, GRADE 2A.

O. DN-SITE TEST EQUIPMENT

DENSITY SHALL BE VERIFIED BY ASTM C 138. VISCOSITIES SHALL BE CHECKED WITH A FLOWCONE PROVIDED BY THE CONTRACTOR AND TESTED PER ASTM C 939.

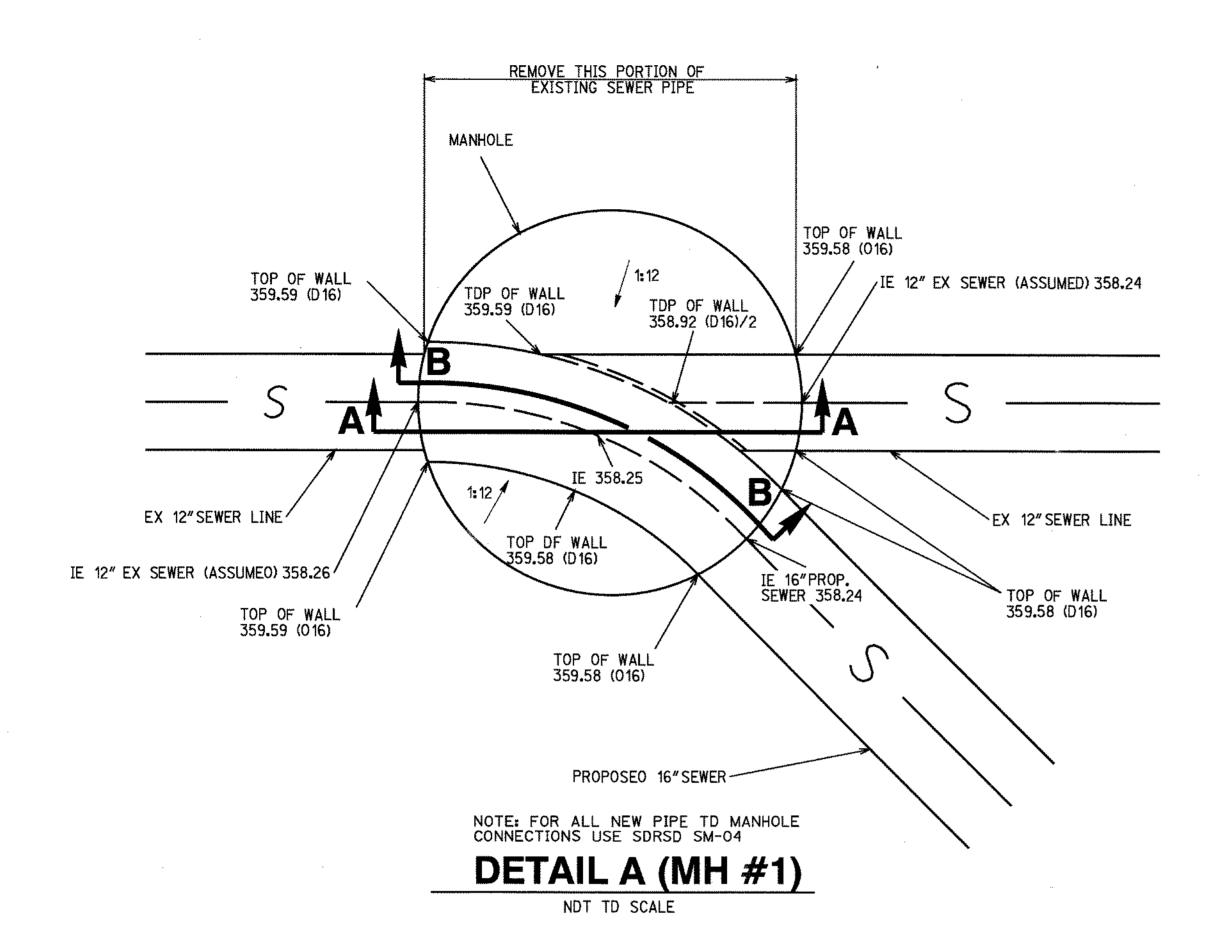
E. TEST SECTION

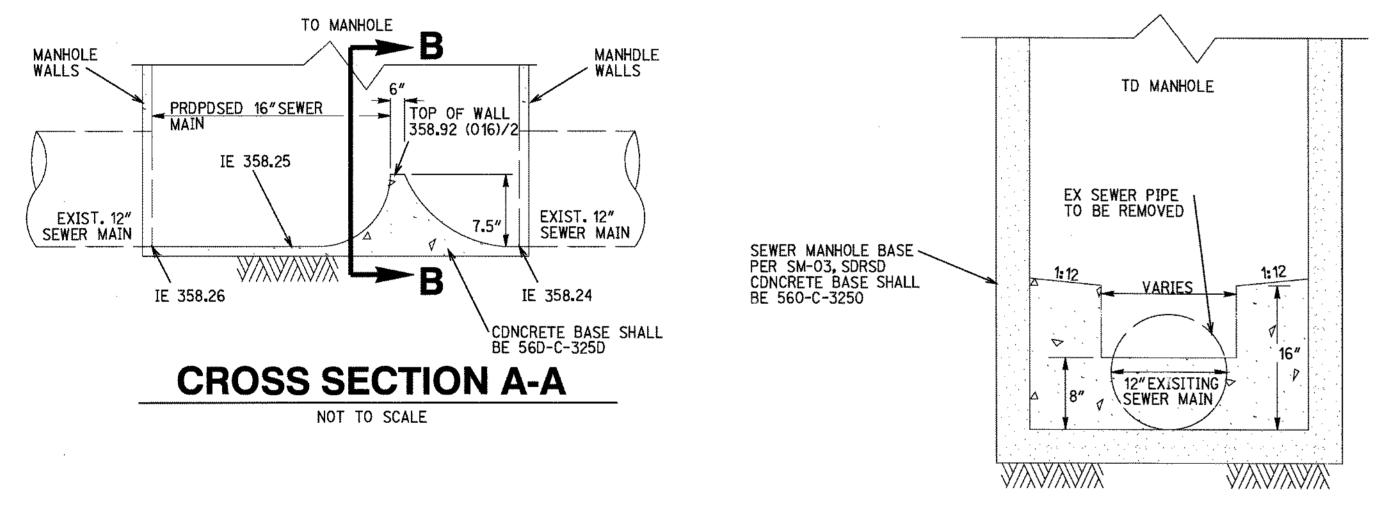
THE CONTRACTOR MAY BE REQUIRED TO PERFORM AN ABOVE-GROUND TEST DN EACH TYPE OF GROUT AND GROUT SYSTEM PROPOSED TO BE USED. THE TEST SECTION TO BE GROUTED AND THE SIZE OF THE ANNULAR SPACE CONSIDEREO FOR EACH TYPE DF GROUT SYSTEM SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVEO BY THE DISTRICT.



ENGINEERING COMPANY San Diego Riverside - Orange - Sar	rickengineering a Luis Obispo - Bakersfield - Sacramento - Phoenix - T	icson				· ·		OF CALIFORN		
CONSTRUCTION RECORD	REFERENCES DRW NO. 96-64	Ву	REVISIONS Date A	pp'd BENCH MARK CITY CHULA VISTA VERTICAL CONTROL	SCALE	Designed By Drawn By Checked By	Submitted 3/18/14	Approved 3/19/14	CITY OF CHULA VISTA DEVELOPMENT SERVICES	Orawing No.
InspectorOate Completed				BENCHMARK, INDEX NO. 1750, DESCRIPTION: BRASS DISK IN WELL	Horizontal AS SHOWN Vertical	Plans Jeth Under Supervision Of	By Stands	By Tom Adler	PLANS FOR THE IMPROVEMENT OF SEWER & TEMPORARY HI-LINE: SALT CREEK SEWER	13045- 2
õ	<u></u>				NA NA	ENGINEER R.C.E. No. 33037	_ Office SH	Principal Civil Engineer		W.O.No. PC2232

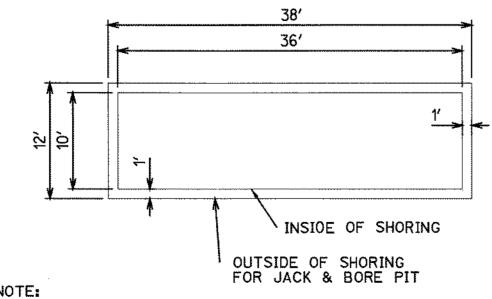
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CROSS SECTION B-B

NOT TO SCALE



NOTE:
JACK ANO BORE PIT DIMESNIONS MAY VARY, AUGER IS IN 10' LENGTHS.
PIT LENGHT IS BORE MACHINE PLUS WORK ROOM PLUS MULTPLES OF
10'. RECEIVING PIT IS BIG ENOUGH TO MAKE TIE WELD.

JACK AND BORE PIT DETAIL

CITY CHULA VISTA VERTICAL CONTROL BENCHMARK, INDEX NO. 1750, DESCRIPTION: BRASS DISK IN WELL

NOT TO SCALE

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P.E. NO. 33D37

J-16629M

DATE:__

REGISTRATION EXPIRES:

Checked By 3/19/14 Ton Adler Under Supervision Df
Dote Principal Civil Engineer Dffice SH

CITY OF CHULA VISTA PLANS FOR THE IMPROVEMENT OF SEWER & TEMPORARY HI-LINE:

DEVELOPMENT SERVICES

DETAIL B (MH #3) NOT TO SCALE PRDPOSEO MH IN EXIST 24"SEWER C-905 CLASS 16 PVC (SEE SHT 4) SEWER MANHOLE BASE PER SM-03, SDRSD CONCRETE BASE SHALL BE 560-C-3250 TO MANHOLE SEWER MANHDLE BASE — PER SM-D3, SDRSD CONCRETE BASE SHALL BE 560-C-3250 EXIST. 24" SEWER MAIN EXIST. 24" SEWER MAIN **/}\\//\\// **CROSS SECTION D-D**

TOP OF WALL 358.20 (024)

IE 24"EX SEWER 356.19

MANHDLE

TDP DF WALL 358-18 (D24)

-IE 24" EX SEWER (ASSUMEO) 356.18

-EX 24"SEWER LINE C-9D5 CLASS 165



EX 24" SEWER LINE-

TDP OF WALL 358.20 (024)

TOP OF WALL 358.19 (024)

IE 16"PROP. SEWER 356.94

TOP OF WALL 358.19 (024)

TDP DF WALL 358.18 (D24)

NOTE: FOR ALL NEW PIPE TO MANHOLE CONNECTIONS USE SDRSD SM-04

IE 24" EX SEWER (ASSUMEO) 356.20 -

TO MANHOLE

24"EXISTING SEWER MAIN

TRANSITION

CROSS SECTION C-C

NOT TO SCALE

PROP. 16" SEWER MAIN

/EX SEWER PIPE TD BE REMOVED

**/\\\/\\\/\\

Drawing No. 13045- 3 SALT CREEK SEWER

NDT TO SCALE

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5620 FRIARS ROAD SAN DIEGO, CA 92110

619.291.0707 FAX)619.291.4165

AS BUILT

DISCIPLINE CIVIL

PRINT NAME : JOHN D. GDDDARD, JR.



