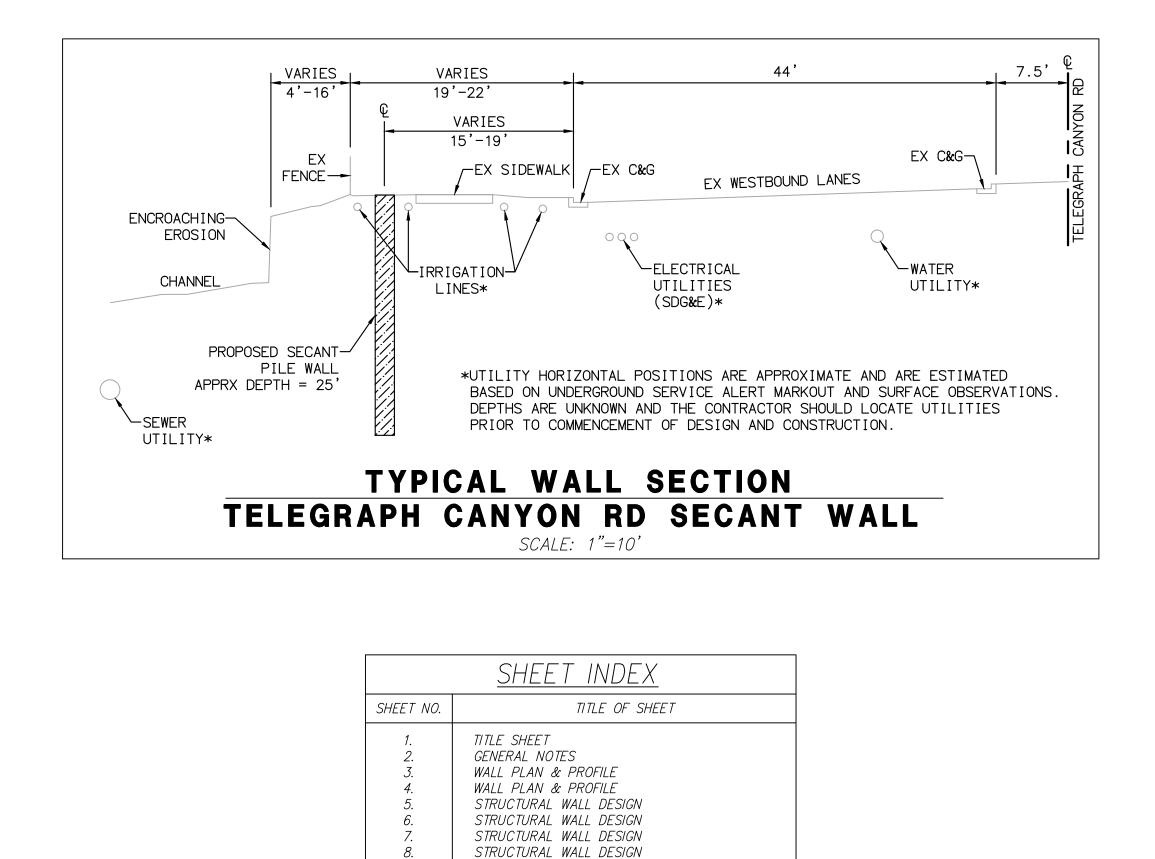
<u>AS—E</u> <u>NGINEER OF WORK</u> HEREBY CERTIFY THAT TO THE BEST VIS SET OF PLANS (SHEET O1 THROUG JBSTANTIAL CONFORMANCE WITH THE SCRETIONARY APPROVAL(S) FOR THE GNED:	GH ##) HAVE BEEN INSTALLED AN SAID PLANS, ALL APPROPRIATE PROJECT.	THE IMPROVEMENTS S ID CONSTRUCTED IN STANDARDS AND ANY DATE:		DEC I HEREBY DECLARE RESPONSIBLE CHAR BUSINESS AND PRO CITY OF CHULA VIS 276 FOURTH AVENU CHULA VISTA, CALIF BY:	THAT I AM GE OVER TH DFESSIONS CO TA JE FORNIA 91910	THE ENG E DESIG ODE AND	N OF THE PRO
	BUILT CERTIFICAT	<u></u>		DEC	CLARA	TION	OF RE.
CONTRACTOR SHALL FURI	NISH TO THE ENGINEER OF WORK, JBMITTAL TO THE CITY ENGINEER CODE.						
CONTRACTOR SHALL NOT	ICTION CONFEREN begin any work on this proj and the city public works in		NSTRUCTION	CONFERENCE IS HELI	D WITH		
12.ACCESS TO FIRE HYDRAN IN ANY MANNER.	ITS TO BE PROVIDED AND MAINTA	NNED AT ALL TIMES.	HYDRANTS .	SHALL NOT BE OBSTR	RUCTED		
EQUAL OR SUPERIOR. 11. CONTRACTOR IS RESPONS	SIBLE FOR HAVING TRAFFIC CONTI IN THE PUBLIC RIGHT OF WAY.						
ADJUSTED OR REPLACED.	NTECT IN PLACE ALL THOSE IMPRO AIR ALL DESTROYED OR DAMAGED				75		
SHALL BE CONFIRMED BY	'ATION OF EXISTING IMPROVEMENT. Y THE CONTRACTOR'S FIELD MEAS ORT TO THE OWNER ANY DISCREF	SUREMENTS PRIOR TO	THE CONSTR	PUCTION OF NEW WOR	PK. THE		
	IG SHALL BE PROVIDED BY THE C QUESTS.	NTY. THE CONTRACTO	PR SHALL GI	VE A MINIMUM OF 48	HOURS		
THE CITY SURVEYING GRC IT. ANY PROPERTY MON	XISTING HORIZONTAL AND VERTIC, DUP UNLESS THERE IS A BID ITEN IUMENTS DESTROYED BY THE CON MARKS AND INTERSECTION TIES W	1 IN THE CONTRACT F ITRACTOR'S NEGLIGENO	ROPOSAL FO E MUST BE	DR THE CONTRACTOR REPLACED AT HIS/H	TO DO ER OWN		
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TIMES ON WHICH ALL CHA AND PLOTTED ACCURATED		DRK, INCLUDING ALL U	TILITIES FOU	ND, ARE TO BE RECO			
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STREET LIGHTS, TRAFF STORM DRAINS, SEWEF WATER TELEPHONE GAS & ELECTRIC CABLE T.V.	R (CITY OF CHULA VI (SWEETWATER AUTH (AT&T) (SDG&E) (COX COMMUNICATI (NEX HORIZO (NEXTG NETW	ISTÁ) HORITY) IONS – SAN DIEGO) N – CHULA VISTA) VORKS)	619-454-	6009 6850 4725 8339 5220 0268			
MUST BE APPROVED BY 2. ALL EXISTING UTILITIES A EXAMINED ARE INDICATED FACILITIES MAY EXIST WH PRECAUTIONARY MEASUR	MPLETED PER THESE PLANS AND THE CITY ENGINEER, IN WRITING, NND STRUCTURES REPORTED BY C O ON THE PLANS WITH THEIR APF HICH HAVE NOT BEEN REPORTED ES TO PROTECT THOSE FACILITIES FY THE OWNERS OF THE FOLLOWN	PRIOR TO ANY REQUE DWNERS OR OTHERS, A PROXIMATE LOCATIONS ON RECORD. THE CO S FOUND AT THE SITE	ST FOR INSI ND THOSE S AND EXTEN NTRACTOR IS . IT SHALL	PECTION. SHOWN ON RECORDS TS. UNDERGROUND S REQUIRED TO TAKE BE THE CONTRACTOF	DUE		

# CANYON RD SECANT WALL MEDICAL CENTER DRIVE TO PASEO LADERA (CIP NO. DR199) PROJECT LOCATION



VICINITY MAP

SCALE: NTS

SPONSIBLE CHA	RGE				
DRK FOR THIS PROJECT, THAT I HAVE EXERCISED OJECT AS DEFINED IN SECTION 6703 OF THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. DATE:		PROFESSIONAL PROFESSIONAL ISTORY M. JAIL ISTORY M. JAIL ISTORY No.C60283 SITURE OF CALIFORNIE	ENGINEER OF WORK:	CARLSBAD, CALIF	NCINAS, SUITE 260 ORNIA 92008-4386 8 = www.RBF.com
DATUMS	SCALE	DESIGNED BY:	DRAWN BY:		
	HORIZONTAL	SB	SB	CHECKED BY: DATE:	APPROVED BY:
DATUM: NAVD88	1" = 20'	RESPONSIBLE CHARGE OF WORK	: DATE: <u>12/17/14</u>		
L DATUM: CCS '83 ZONE 6,	VERTICAL	1	RCE NO.: <u>60283</u>		
EPOCH 1991.35		TIMOTHY THIELE		(senior engineer), P.E SENIOR CIVIL E	NGINEER (principal), F

STRUCTURAL WALL DESIGN

STRUCTURAL WALL DESIGN

9. 10.



## WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS AND THE FOLLOWING: 1. 2012 CITY OF CHULA VISTA SUBDIVISION MANUAL

- 2. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2006 EDITION ("GREENBOOK")
- 3. 2006 REGIONAL SUPPLEMENT TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("REGIONAL SUPPLEMENT")
- 4. SAN DIEGO REGIONAL STANDARD DRAWINGS ("SDRSD"), DATED SEPTEMBER 2012
- 5. CITY OF CHULA VISTA STANDARD SPECIAL PROVISIONS (CV SPECIAL PROVISIONS), DATED OCTOBER 2008
- 6. CITY OF CHULA VISTA DEPARTMENT OF PUBLIC WORKS DESIGN AND CONSTRUCTION STANDARDS ("CVDS") & ("CVCS"), 2002 EDITION
- 7. CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS 2010 ("CALTRANS STANDARD PLANS")
- 8. CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 2010 ("CALTRANS STANDARD SPECIFICATIONS")
- 9. 2012 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ("MUTCD")

#### BASIS OF COORDINATES

THE BASIS OF COORDINATES FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM NAD83, ZONE 6, (EPOCH 1991.35) BASED LOCALLY ON THE FOLLOWING CONTROL STATIONS PER THE CITY OF CHULA VISTA SURVEY CONTROL NETWORK.

STATION	NORTHING (ft.) GRID	EASTING (ft.) GRID
5101	1807644.479	6326693.872
5099	1809029.784	6329422.557

QUOTED BEARINGS FROM REFERENCE MAPS OR DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM. DISTANCES SHOWN HEREON ARE GROUND, EXCEPT WHERE NOTED AND ARE IN TERMS OF THE U.S. SURVEY FOOT.

GRID DISTANCE = GROUND DISTANCE X COMBINED SCALE FACTOR (1.0000221477)

#### **BENCHMARK**

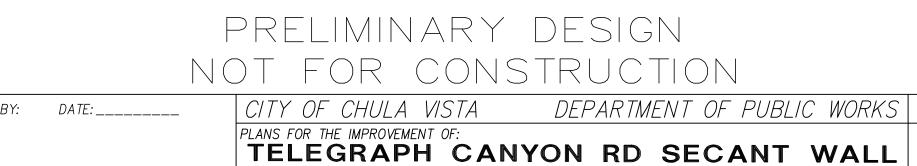
THE BASIS OF ELEVATIONS FOR THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) PER THE CITY OF CHULA VISTA SURVEY CONTROL NETWORK. POINT NUMBER 521 - 1 1/2" BRASS DISC LOCATED AT THE SOUTHEAST CORNER OF TELEGRAPH CANYON ROAD AND MEDICAL CENTER DRIVE ON THE WEST END OF A CURB INLET. ELEVATION: 274.33 (ft.)

#### <u>LEGEND</u>

- WATER METER
- WATER VALVE
- AIR RELEASE VALVE O
- IRRIGATION CONTROL VALVE
- IRRIGATION CONTROL BOX
- STORM DRAIN MANHOLE
- UTILITY MANHOLE
- ELECTRIC PULL BOX
- TRAFFIC PULL BOX
- SIGN ᅭ
- POST
- ----- WOOD FENCE



SECANT WALL ---- RIGHT-OF-WAY



MEDICAL CENTER DRIVE TO PASEO LADERA

TOTAL SHEETS: 10 DRAWING NO.

14051 - 01H: \PDATA\144215\_TELEGRAPH CANYON WALL\CADD\LAND\DLV\IMPROVE\144215-01-TT.DWG 10/28/2014 8:55 AM

#### GENERAL NOTES:

- 1. ALL UNDERGROUND UTILITIES AND LATERALS TO BE INSTALLED BEFORE CONSTRUCTION OF CURB, SIDEWALK, OR SURFACING OF STREETS.
- 2. SIDEWALK IS TO BE SIX INCHES THICK THROUGH ALL DRIVEWAYS.
- 3. ALL WORK SHALL BE COMPLETED PER THESE PLANS AND APPROVED REVISIONS. ALL CHANGES OR REVISIONS THERETO, MUST BE APPROVED BY THE CITY ENGINEER, IN WRITING, PRIOR TO ANY REQUEST FOR INSPECTION.
- 4. 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 CONTRACOTR IS REQUIRED TO TAKE DUE PRECATIONARY 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 1-800-422-4133) 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 SIGNA	L LIGHT CONDUIT	
	CITY OF CHULA VISTA	(619)397-6163
SEWER OR STORM DRAIN	CITY OF CHULA VISTA	
	VERIFICATION	(619)691-5024
	NOTIFICATION	(619)397-6000
GAS AND ELECTRIC	SAN DIEGO GAS & ELECTRIC	(619)230-7800
WATER	OTAY WATER DISTRCT	(619)670-2222
	SAN DIEGO COUNTY WATER A	
		(858)522-6900
TELEPHONE	PACIFIC BELL	(619)266-4683
TELEVISION	COX CABLE OF SAN DIEGO	(619)263-9251
TELEVISION	ULTRONICS	(619)476-0177

- 5. 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)397-6128.
  - B. THE CONTRACTOR SHALL GIVE 24 HOURS NOTICE (ONE WORKING DAY) NOTICE ON ALL CALLS FOR INSPECTION, PHONE: (619)397 - 6128.
  - 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.
- 6. STREET LIGHT NOTE: THE STREET LIGHTS AND SERVICE POINTS SHOWN HEREON ARE APPROXIMATE ONLY. SERVICE POINTS ARE SUBJECT TO REVISION BY SAN DIEGO GAS AND ELECTRIC COMPANY FINAL PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE PROPER SERVICES TO THE STREET LIGHTS SHOWN ON THE PLAN ACCORDING TO ALL THE APPLICABLE CITY OF CHULA VISTA PLANS AND SPECIFICATIONS. THE DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING CONDUIT AND CONDUCTORS FROM STREET LIGHTS TO APPROVED SERVICE POINTS FURNISHED BY THE SAN DIEGO GAS AND ELECTRIC COMPANY. CONDUIT RUNS AND CONDUCTOR SIZE FROM STREET LIGHTS TO SERVICE POINTS SHALL BE SHOWN ON THESE PLANS AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION. STREET LIGHTING CONDUIT SHALL BE 1 1/2" MIN. PVC (SCHEDULE 80). FINAL LOCATION AND SIZE OF STREET LIGHTS, CONDUIT, WIRE AND PULL BOXES SHALL BE APPROVED PRIOR TO BEGINNING OF CONSTRUCTION.
- 7. 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.
- 8. LOCATION AND TYPE OF STREET TREES FOR EACH LOT TO BE DETERMINED BY THE GENERAL SERVICES AND PUBLIC WORKS OPERATIONS DEPARTMENTS - STREET OPERATIONS.
- 9. MAXIMUM DISTANCE BETWEEN PULL BOXES IS 190 FEET.
- 10. ALL UTILITIES SHALL HAVE A MINIMUM OF 90% RELATIVE COMPACTION IN ALL TRENCH BACKFILL.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE THAT ANY MONUMENT OR BENCH MARK WHICH IS DISTURBED OR DESTROYED SHALL BE RE-ESTABLISHED AND REPLACED BY A REGISTERED CIVIL ENGINEER WHO IS ALLOWED TO PRACTICE SURVEYING OR A LICENSED LAND SURVEYOR AND A CORNER RECORD, RECORD OF SURVEY, OR CERTIFICATE OF CORRECTION FILED AS REQUIRED BY THE LAND SURVEYOR'S ACT.
- 12. AS-BUILT DRAWINGS: A SET OF BLUELINE PRINTS AND A SET OF SPECIFICATIONS SHALL BE KEPT AT ALL TIMES ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL UTILITIES, ARE TO BE RECORDED.
- 1.3 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 APPROVAL
- 14. 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.
- 15. ALL STORM DRAIN PIPE SHALL BE 1500 D-LOAD UNLESS OTHERWISE SHOWN ON THESE PLANS.
- 16. DUST GENERATED 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 REGULAR WATERING OF GRADED SURFACES AND RESTRICTION OF ALL CONSTRUCTION VEHICLES AND EQUIPMENT TO TRAVEL ALONG ESTABLISHED AND REGULARLY WATERED ROADWAYS.

#### GRADING NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE APPROVED PLANS AND APPROVED REVISIONS. ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER AND MITIGATION MONITOR PRIOR TO ANY REQUEST FOR INSPECTION.

2. ALL GRADING SHALL BE INSPECTED AND TESTED BY OR UNDER THE DIRECTION OF A QUALIFIED SOILS ENGINEER. THE SOILS ENGINEER SHALL: INSPECT THE EXCAVATION, AND SHALL OBSERVE AND TEST THE PLACEMENT, AND COMPACTION OF FILL AND BACKFILL AND COMPACTION OF TRENCHES; SUBMIT GEOTECHNICAL OR SOILS REPORTS AS REQUIRED AND DETERMINE THE SUITABILITY OF ANY FILL MATERIAL UPON COMPLETION OF GRADING OPERATIONS. THE SOILS ENGINEER SHALL STATE THAT OBSERVATIONS AND TESTS WERE MADE BY, OR UNDER DIRECTION OF THE SOILS ENGINEER, AND THAT EMBANKMENTS AND EXCAVATIONS WERE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL ASPECTS OF THE APPROVED GRADING PLANS, ANY APPROVED REVISIONS THERETO, SUBJECT LAND DEVELOPMENT PERMIT AND ORDINANCE NO. 1797 AS AMENDED, AND THAT ALL EMBANKMENTS AND EXCAVATIONS ARE ACCEPTABLE FOR THEIR INTENDED USE.

3. THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. CONTRACTOR SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE, AND SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF FRESHLY GRADED AREAS UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED TO THE SATISFACTION OF THE CITY ENGINEER AND THE MITIGATION MONITOR.

4. ALL AREAS TO BE FILLED SHALL BE PREPARED PRIOR TO FILLING, AND FILL SHALL BE PLACED IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE SOILS REPORT. ALL VEGETABLE MATTER AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED, BY THE CONTRACTOR, FROM THE SURFACE UPON WHICH THE FILL IS TO BE PLACED. LOOSE FILL AND UNSUITABLE SOILS SHALL BE REMOVED TO SUITABLE FIRM NATURAL GROUND. THE EXPOSED SOILS SHALL BE SCARIFIED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND THEN COMPACTED TO A MINIMUM OF 90% OF ASTM-D1557. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE, SPREAD. WATER AND COMPACT THE FILL IN STRICT ACCORDANCE WITH THE SPECIFICATIONS.

5. CUT AND FILL SLOPES SHALL BE CUT AND TRIMMED TO THE FINISHED GRADE TO PRODUCE SMOOTH SURFACES AND UNIFORM CROSS SECTIONS. THE SLOPES OF EXCAVATIONS AND EMBANKMENTS SHALL BE SHAPED, TRIMMED, AND PLANTED IN ACCORDANCE WITH THE PLANTING NOTES AND AS DIRECTED BY THE ENGINEER OF WORK, AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS AND OTHER WASTE MATERIALS EXPOSED ON THE EXCAVATION OR EMBANKMENT SLOPES WHICH ARE LIABLE TO BECOME LOOSENED, SHALL BE REMOVED AND DISPOSED OF. THE TOE AND TOP OF ALL SLOPES SHALL BE ROUNDED IN ACCORDANCE WITH ORDINANCE NO. 1797, THESE GRADING PLANS, AND THE STANDARD DRAWINGS CVDS 26 AND 27. SLOPE SETBACKS AND GRADES SHALL CONFORM TO CVDS 25.

6. IF THERE ARE EROSION SCARS ON EXISTING SLOPES WHICH OTHERWISE WOULD NOT BE ELIMINATED BY THE PROPOSED GRADING, THESE SCARS ARE TO BE ELIMINATED BY TRIMMING, FINE GRADING AND PLANTING. IF THE SCARS ARE IN AREAS OF NATIVE VEGETATION, THE REPAIRS SHOULD BE PERFORMED WITH AN EFFORT TO AVOID OR MINIMIZE IMPACTS TO NATIVE VEGETATION. ALL SUCH REPAIRS IN AREAS OF NATIVE VEGETATION SHALL BE REVIEWED AND APPROVED BY THE CITY'S MITIGATION MONITORING COORDINATOR PRIOR TO THE BEGINNING OF THE REPAIR WORK.

7. ALL TREES, BRUSH, GRASS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE COLLECTED, PILED OR OTHERWISE DISPOSED OF OFF THE SITE BY THE CONTRACTOR SO AS TO LEAVE THE AREAS THAT HAVE BEEN CLEARED WITH A NEAT AND FINISHED APPEARANCE FREE FROM UNSIGHTLY DEBRIS. APPROVAL OF LOCATIONS FOR DEBRIS FILL SHALL BE OBTAINED FROM THE SOILS ENGINEER PRIOR TO THE DISPOSAL OF ANY SUCH MATERIAL.

8. SUBDRAIN LOCATIONS SHOWN ARE APPROXIMATE AND ARE RECOMMENDED FOR ALL SIGNIFICANT FILL CANYONS. THE ACTUAL LOCATION AND EXTENT OF SUBDRAINS SHALL BE DETERMINED BY THE GEOTECHNICAL CONSULTANT AT THE TIME OF CONSTRUCTION.

9. BY REFERENCE HERE, THE REPORT (TITLE OF GEOTECHNICAL REPORT) PREPARED BY (GEOTECHNICAL CONSULTANT) ON (DATE) IS INCLUDED AS PART OF THESE PLANS.

10. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES. LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND SHOWN FOR GENERAL INFORMATION ONLY.

11. WHERE GRADING DOES NOT OCCUR, ALL EXISTING PLANT MATERIAL IS TO BE PROTECTED IN PLACE. NO CONSTRUCTION EQUIPMENT WILL BE ALLOWED TO TRAVEL THROUGH AND DAMAGE ANY OF THESE AREAS. ALL AREAS TO BE RETAINED IN A NATURAL CONDITION SHALL BE FENCED UNDER THE DIRECTION OF THE PROJECT BIOLOGIST. CONTRACTOR WILL BE RESPONSIBLE TO REPAIR ANY AND ALL DAMAGE/IMPACTS TO THESE AREAS.

12. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER OF WORK AS-BUILT PLANS FOR ALL NEW IMPROVEMENTS AND GRADING SHOWN ON THESE PLANS FOR SUBMITTAL TO THE CITY ENGINEER FOR APPROVAL IN ACCORDANCE WITH SECTION 15.04.140 OF THE CHULA VISTA MUNICIPAL CODE.

13. IN THE CASE OF CONFLICTS, THE REQUIREMENTS OF THE EARTHWORK, SPECIFICATIONS PREPARED FOR THE PROJECT BY THE SOILS ENGINEER SHALL GOVERN THE REQUIREMENTS OF THIS PLAN AND THESE NOTES AND THESE PLANS SHALL BE REVISED ACCORDINGLY.

### LANDSCAPING NOTES

1. ALL SLOPES SHALL BE PLANTED AND IRRIGATED IN ACCORDANCE WITH PLANS APPROVED BY THE CITY OF CHULA VISTA DIRECTOR OF PARKS AND RECREATION AND CITY ENGINEER. PLANS SHALL CONFORM TO THE CITY OF CHULA VISTA LANDSCAPE MANUAL AND ORDINANCE NO. 1797, BOTH AS AMENDED.

2. FINISH GRADING AND PLANTING SHALL BE ACCOMPLISHED ON ALL SLOPES PRIOR TO OCTOBER 1 OR IMMEDIATELY UPON COMPLETION OF ANY SLOPES GRADED BETWEEN OCTOBER 1 AND APRIL 1. PADS OR OTHER RELATIVELY LEVEL AREAS SHALL BE PLANTED AS DIRECTED BY THE CITY'S DIRECTOR OF PARKS AND RECREATION.

3. PRIOR TO GRADING, CONTRACTOR SHALL FIELD VERIFY EXISTING IRRIGATION SYSTEMS TO DETERMINE WHICH ARE OPERABLE. UNLESS OTHERWISE NOTED ON THESE PLANS, ALL EXISTING IRRIGATION SYSTEMS ARE TO BE PROTECTED IN PLACE AND REMAIN OPERABLE, PARKS AND RECREATION DEPARTMENT (LANDSCAPING COORDINATION NAME AND PHONE NO., PER SEC. 5-300).

AS-BUILT				UTILITY NOTE				
	DATE: R.C.E. NO.: MY REGISTRATION EXPIRATION:			ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED O ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN TH FIELD PRIOR TO THE START OF CONSTRUCTION.				
CONSTRUCTION RECORD	REFERENCES	BY	ŀ	REVISIONS	DATE	APP'D	DATUMS	SCALE
CONTRACTOR:	DWG. NO.:						VERTICAL DATUM: NAVD88	HORIZONTAL
INSPECTOR:							VERTICAL DATUM: NAVDOO	
DATE COMPLETED:							HORIZONTAL DATUM: CCS '83 ZONE 6,	VERTICAL
							EPOCH 1991.35	

#### PUBLIC IMPROVEMENT AND GRADING PLAN MONUMENTATION NOTE

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 DESTROYED, 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 THREE (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.

#### DIG ALERT NOTICE

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-422-4133 AT LEAST TWO WORKING DAYS BEFORE YOU DIG.

#### PAVING NOTE:

THE OFFICE OF THE CITY ENGINEER SHALL DESIGN ALL STRUCTURAL STREET SECTIONS BASED ON THE "R" VALUE METHOD SPECIFIED BY THE CITY ENGINEER. THE SOIL TEST SHALL BE PERFORMED BY A REGISTERED CIVIL ENGINEER WHOSE PRIMARY PROFESSIONAL ACTIVITY IS PERFORMING SUCH TESTS TEST RESULTS SHALL BE PROVIDED TO THE CITY BY THE SUBDIVIDER IN THE NUMBER AND AT SUCH LOCATIONS AND TIMES AS DETERMINED BY THE CITY ENGINEER. WHERE HEAVY GRADING IS PROPOSED, GATHERING OF SAMPLES SHALL BE DELAYED UNTIL ROUGH SUBGRADE IS MADE. MINIMUM BASE THICKNESS ON ALL STREET CLASSIFICATIONS SHALL BE PER SECTION 3-405.3 OF THE SUBDIVISION MANUAL. BASE MATERIAL SHALL CONFORM TO CRUSHED AGGREGATE BASE, 3/4 INCH MAXIMUM, OR APPROVED ALTERNATIVE, AS SET FORTH IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 200-2.2 1997 EDITION. ALL ASPHALT CONCRETE SURFACES SHALL BE SEAL COATED IN ACCORDANCE WITH SECTION 302.5.10 OF THE REGIONAL STANDARD SPECIAL PROVISIONS.





CONSULTING A Baker Company

5050 AVENIDA ENCINAS, SUITE 260 CARLSBAD, CALIFORNIA 92008-4386 760.476.9193 = FAX 760.476.9198 = www.RBF.com

DATUMS	SCALE	DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	APPROVED BY
	HORIZONTAL	SB	SB			
DATUM: NAVD88	TIONIZONTAL	RESPONSIBLE CHARGE OF WORK	K: DATE: 12/17/14			
		THEST UNSIDEL CHARGE OF WORK	$DATL - \underline{-\underline{-}}$			
L DATUM: CCS '83 ZONE 6,	VERTICAL	1	RCE NO.: 60283			
EPOCH 1991.35		TIMOTHY THIELE		(senior engineer)	), P.E. – SENIOR CIVIL ENGINEER	(principal),

No.C60283

CIVIL

OF CAL'

#### EROSION CONTROL NOTES

PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, TEMPORARY EROSION CONTROL SHALL BE PREFORMED AND INSTALLED BY THE CONTRACTOR AS INDICATED BELOW:

1. THE EROSION CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION AND MODIFICATION OF THE EROSION CONTROL DEVICES DURING THE RAINY SEASON. THE CONTRACTOR, PERMITTEE OR OWNER SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF THE EROSION CONTROL DEVICES DURING THE RAINY SEASON. IN THE EVENT OF FAILURE OR REFUSAL TO PROPERLY MAINTAIN SAID DEVICES, THE CITY ENGINEER OR MITIGATION MONITOR MAY CAUSE EMERGENCY MAINTENANCE WORK TO BE DONE TO PROTECT ADJACENT PRIVATE AND PUBLIC PROPERTY, THE COST (INCLUDING AN INITIAL MOBILIZATION AMOUNT) OF WHICH SHALL BE CHARGED TO THE OWNER.

2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER AND MITIGATION MONITOR

3. TEMPORARY EROSION CONTROL DEVICES, WHICH INTERFERE WITH THE WORK, SHALL BE RELOCATED OR MODIFIED AS THE WORK PROGRESSES, AS RECOMMENDED BY THE ENGINEER OF WORK AND AS APPROVED BY THE CITY ENGINEER AND MITIGATION MONITOR.

4. ALL REMOVABLE PROTECTION DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40 PERCENT. AFTER EACH RAINSTORM EXCEEDING 1/4 INCH IN A 12-HOUR PERIOD, SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS AND DESILTING BASINS AND BASINS SHALL BE PUMPED DRY AS DEEMED NECESSARY BY THE CITY ENGINEER AND MITIGATION MONITOR.

5. EFFECTIVE PLANTING SHALL BE INSTALLED, FULLY GERMINATED, AND SHALL EFFECTIVELY COVER THE REQUIRED SLOPES PRIOR TO FINAL APPROVAL. THE PLANTING MIX SHALL BE APPROVED. BY THE DIRECTOR OF PARKS AND RECREATION. PRIOR TO INSTALLATION. SPRINKLER SYSTEMS ARE REQUIRED ON ALL SLOPES OVER FIVE FEET IN HEIGHT

6. A 12 INCH HIGH BY 3 FEET WIDE BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS. CONCENTRATED WATER SHALL NOT BE CARRIED CLOSER THAN 10 FEET FROM THE TOP OF SLOPES.

7. SILT BASINS, TRAPS, OR SANDBAGS SHALL BE PROVIDED AT EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.

8. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPE, THE CONTRACTOR SHALL INSURE THAT WATER DRAINING TO THE SUMPS IS DIRECTED INTO THE INLET, AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. SANDBAGS OR DIKES.

9. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY.

10. THE CONTRACTOR SHALL CHECK AND MAINTAIN LINED AND UNLINED DITCHES AFTER EACH RAINFALL.

11. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH RAINFALL EXCEEDING 1/4" IN A 12-HOUR PERIOD AND WHEN SILT REACHES A DEPTH OF 1.0'

12. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.

13. DEVICES SHOWN ON THESE PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE PUBLIC WORKS INSPECTOR AND MITIGATION MONITOR

14. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER AND MITIGATION MONITOR AFTER EACH RAINFALL WHICH PRODUCES RUNOFF.

15. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE CITY ENGINEER OR MITIGATION MONITOR DUE TO INCOMPLETE GRADING OPERATIONS OR UNFORSEEN CIRCUMSTANCE WHICH MAY ARISE.

16. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

17. ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON

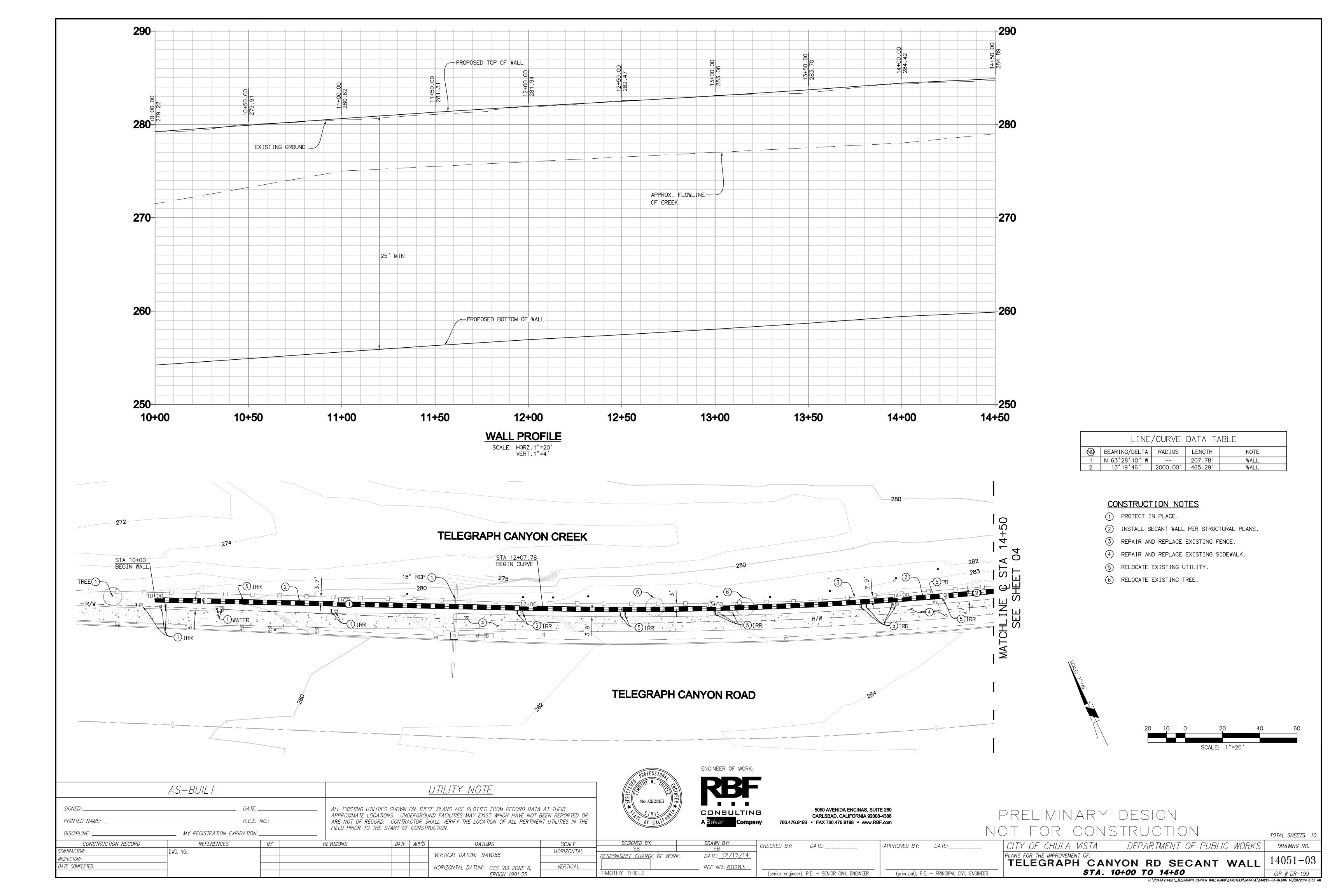
18. GRADED AREA AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY.

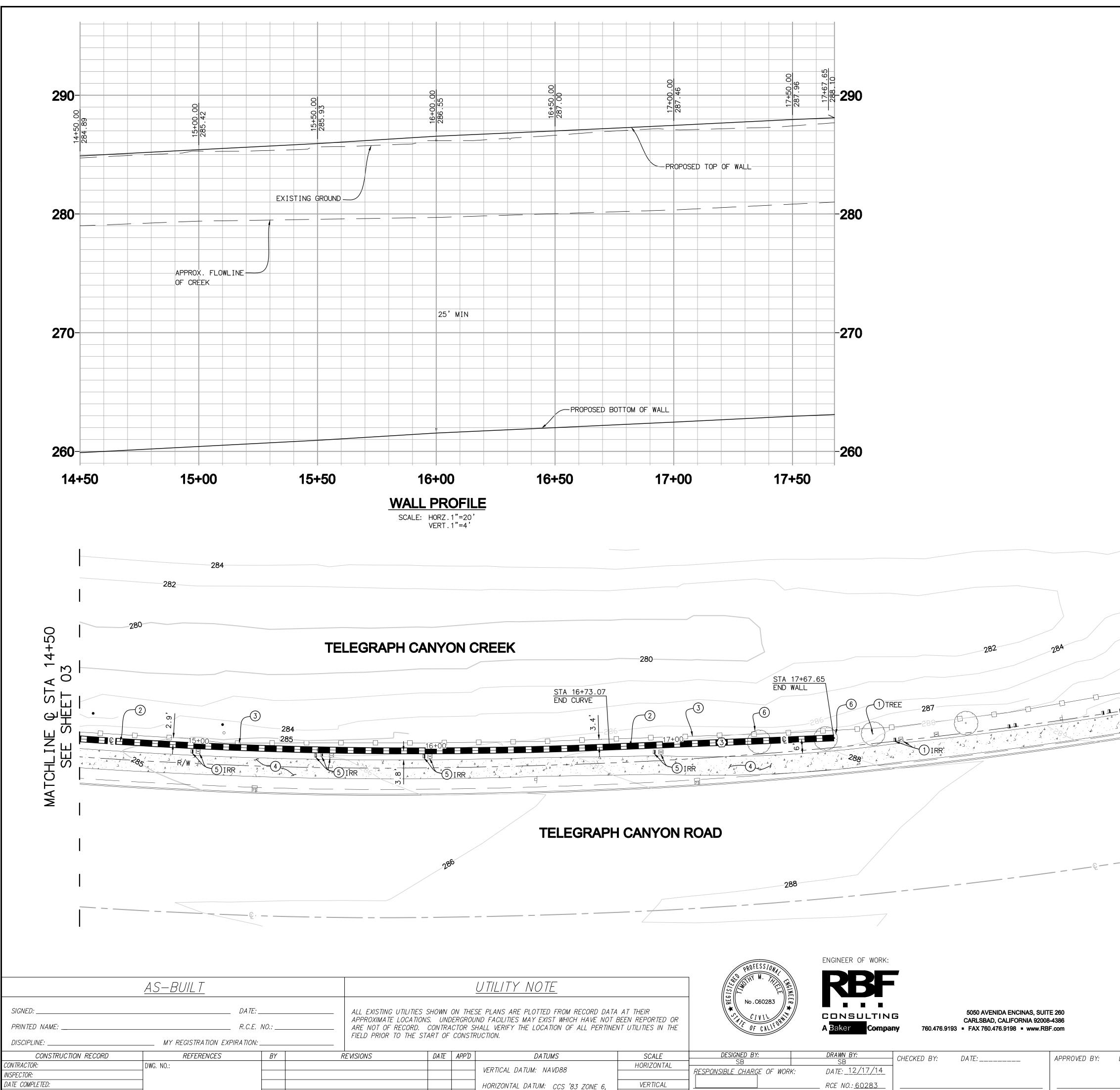
19. IN CASE EMERGENCY WORK IS REQUIRED, CONTACT (DEVELOPER'S NAME & PHONE NO.)

20. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT MAY RESULT FROM GRADING OPERATIONS BY APPROPRIATE MEANS (SANDBAGS, HAY BALES, TEMPORARY DESILTING BASINS, SILT FENCES, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE TOTAL PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY OWNER.



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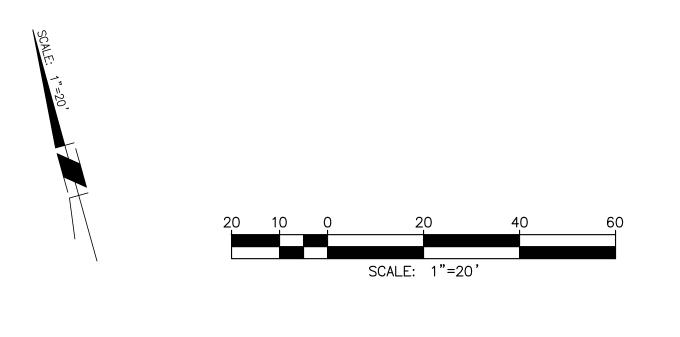


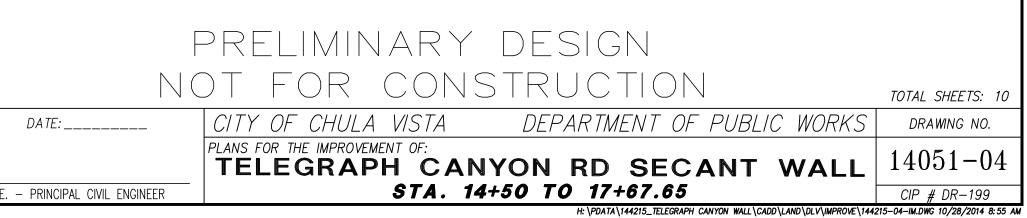
DATUMS	SCALE	DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:	APPROVED BY:
	HORIZONTAL	SB	SB			
DATUM: NAVD88	HORIZONTIL	RESPONSIBLE CHARGE OF WORF	K: DATE: 12/17/14			
L DATUM: CCS '83 ZONE 6,	VERTICAL		<i>RCE NO.:</i> <u>60283</u>			
EPOCH 1991.35		TIMOTHY THIELE		(senior engineer	), P.E. – SENIOR CIVIL ENGINEER	(principal), P.E.

	LINE/CURVE DATA TABLE					
	0	BEARING/DELTA	RADIUS	LENGTH	NOTE	
ĺ	3	N 76°47'56"W		94.58'	WALL	

#### CONSTRUCTION NOTES

- 1 PROTECT IN PLACE.
- 2 INSTALL SECANT WALL PER STRUCTURAL PLANS.
- (3) REPAIR AND REPLACE EXISTING FENCE.
- (4) REPAIR AND REPLACE EXISTING SIDEWALK.
- (5) RELOCATE EXISTING UTILITY.
- 6 RELOCATE EXISTING TREE.





#### SPECIAL INSPECTION TABLE

2 BR 3 4 P V 5 5 B 6 7 8 9 W 10 1 11 D	ast-in-place concrete olts installed in concrete einforcing steel re-stressing steel olumetric weld examinations (UT, RT) isual weld examinations igh-strength bolting tructural masonry recast concrete /ood construction ireproofing or fire-resistant coatings eep foundations (piles, piers, and caissons) hotcrete	18B 18C 18D	Verify soil conditions are substant conformance with the soil investion Verify that foundation excavation proper depth and bearing strate Provide soil compaction test resul- fill, relative density, and bearing Provide soil expansion test resul- index, recommendations for found slab-on-grade recommendations Seismic force-resisting system Pre-fabricated building component Structural observations Exterior insulation and finishing s	igation report is extend to ults, depth of values ts, expansion lation, and ts
No.	Description of Type of Inspection	n Re	quired, Location, Remarks	Design Strength
1, 11	"MALE" SECANT PILE CAISSONS			f'c = 4,500 PSI
1, 11	"FEMALE" SECANT PILE CAISSONS			f'c = 500 PS

U <sub>9</sub> U U	"MALE" SECANT FILE CAISSONS	f"c = 4,500
1, 11	"FEMALE" SECANT PILE CAISSONS	f'c = 500 P
3	REINFORCING STEEL PLACEMENT	fy = 60 KSI
13A	Existing conditions during caisson drilling	
13B	CAISSON DRILLING DEPTHS	
16	STRUCTURAL OBSERVATION	

- a. Special inspections listed above are in addition to required inspections by the building official, as identified in C.B.C. Section 109. Special inspection is not necessarily a substitute for inspection by the building official. Specially inspected work which is installed or covered without the approval of the city inspector is subject to removal or exposure.
- b. Refer to C.B.C. Tables 1704.3-1704.9 for frequency requirements of special inspection (periodic vs. contínuous), unless noted otherwise.
- c. Special inspectors must be approved or certified by the City of Chula Vista to perform the types of inspection specified.
- d. It is the responsibility of the contractor to inform the special inspector or inspection agency at least one day prior to performing any work that requires special inspection. All work performed without required special inspection is subject to removal.

	<u>AS-BUILT</u>						<u>UTILITY NOTE</u>
SIGNED: PRINTED NAME; DISCIPLINE:	<i>R.C.E.</i>	NO.:		APPROXIMATE LOCATION	IS. UNL CONTRA	ERGROU	SE PLANS ARE PLOTTED FI IND FACILITIES MAY EXIST HALL VERIFY THE LOCATION RUCTION.
CONSTRUCTION RECORD	REFERENCES	BY	l A	REVISIONS	DATE	APP'D	DATUMS
CONTRACTOR: INSPECTOR: DATE COMPLETED:	D\#G. NO.:						VERTICAL DATUM: NAVD HORIZONTAL DATUM: CO

## GENERAL NOTES & SPECIFICATIONS

#### REINFORCING STEEL

- 1. DETAILS OF REINFORCEMENT SHALL CONFORM TO WITH CHAPTER 7 OF ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," LATEST APPROVED EDITION, WITH AMENDMENTS AS FOUND IN 2013 C.B.C. CHAPTER 19, REINFORCING STEEL DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING. STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE," LATEST EDITION.
- 2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- 3. ALL REINFORCING STEEL AND OTHER EMBEDDED ITEMS SHALL BE SECURELY HELD IN POSITION AND INSPECTED PRIOR TO PLACING CONCRETE AND/OR GROUT,
- 4. ALL REINFORCING STEEL SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER AND THE ARCHITECT PRIOR TO FABRICATION,
- 5. BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATION" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI),

#### STRUCTURAL OBSERVATION

- 1. THE OWNER SHALL EMPLOY A CALIFONIA REGISTERED STRUCTURAL ENGINEER TO PERFORM STRUCTURAL OBSERVATIONS AS DEFINED IN 2013 CBC SECTION 1709.
- 2. AT CONCLUSION OF ALL PERMITTED WORK. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE REQUIRED SITE VISITS HAVE BEEN MADE TO OBSERVE GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS, AND APPROVED CONSTRUCTION CHANGES. THE STATEMENT SHALL ALSO IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE OBSERVER'S KNOWLEDGE, HAVE NOT BEEN REGOLVED,
- 3. AT A MINIMUM, THE STRUCTURE REQUIRES STRUCTURAL OBSERVATIONS AT THE FOLLOWING MILESTONES:
- A. PRIOR TO CONCRETE PLACEMENT OF FIRST MALE SECANT PILE, AFTER REBAR CAGE INSTALLATION, OTHER NON-INSTALLED CAGES TO BE AVAILABLE FOR OBSERVATION,
- 4. THE STRUCTURAL OBSERVER SHALL SUBMIT A WRITTEN REPORT FOR EACH SITE OBSERVATION DEDICATED TO THE MILESTONES LISTED ABOVE, ALL OBSERVED DEFICIENCIES SHALL BE INCLUDED WITHIN THESE REPORTS, WHICH SHALL BE SENT TO THE OWNER'S REPRESENTATIVE SPECIAL INSPECTOR, AND CONTRACTOR, ALL DEFICIENCIES NOTED MUST BE CORRECTED BEFORE FINAL OCCUPANCY PERMIT CAN BE ISSUED,

#### SPECIAL INSPECTION

- 1. SPECIAL INSPECTION BY SPECIAL INSPECTORS SATISFACTORY TO THE BUILDING OFFICIAL IS REQUIRED FOR THE FOLLOWING TYPES OF WORK, IN CONFORMANCE WITH THE 2013 CALIFORNIA BUILDING CODE (2012 1.B.C.), CHAPTER 17. REFER TO C.B.C. SPECIAL INSPEC-TION TABLES IN SECTION 1705 FOR SPECIFIC INSPECTION MILESTONES, FREQUENCY, AND REFERENCE CRITERIA.
- 2. CONCRETE: DURING PLACEMENT AND SAMPLING OF ALL TEST SPECIMENS FOR ALL REIN-FORCED CONCRETE,
- 3. REINFORCING STEEL: FOLLOWING PLACEMENT OF REINFORCING STEEL FOR ALL CONCRETE ELEMENTS,
- 4. SOILS: VERIFY EXISTING SITE CONDITIONS, CAISSON DEPTHS, ETC. AS PER C.B.C. TABLE 1705.6 AND APPROVED SOILS REPORT.
- 5. SECANT PILE CAISSONS: DURING INSTALLATION AS PER C.B.C. TABLE 1705.8 AND APPROVED SOILS REPORT.
- 6. STRUCTURAL OBSERVATION PER C.B.C. 1709.
- 1. REFER TO SPECIAL INSPECTION TABLE FOR SUMMARY OF SPECIFIC INSPECTIONS AND REQUIRED MATERIAL STRENGTHS

#### SECANT PILE WALL CONSTRUCTION PROCEDURES

- "FEMALE" SECANT PILE CAISSON CONSTRUCTION:
- 1.1 LAYOUT AND DRILL THE HOLE DIAMETER TO DEPTH AS INDICATED IN THE DRAWINGS,
- 1,2 PLACE SPECIFIED SLURRY CONCRETE FROM THE BOTTOM OF THE HOLE UP TO SURFACE ELEVATION SPECIFIED IN PLANS.
- 2. "MALE" SECANT PILE CAISSON CONSTRUCTION:
- 2,1 LAYOUT AND DRILL THE HOLE DIAMETER TO DEPTH AS INDICATED IN THE DRAWINGS (OVERLAPPED WITH "FEMALE" PILES),
- 2.2 PLACE THE REBAR CAGE APPROXIMATELY IN THE CENTER OF THE HOLE,
- 2.3 PLACE SPECIFIED CONCRETE FROM THE BOTTOM OF THE HOLE UP TO SURFACE ELEVATION SPECIFIED IN PLANS,

NOTE
PLOTTED FROM RECORD DATA AT THEIR
MAY EXIST WHICH HAVE NOT BEEN REPORTED OR
HE LOCATION OF ALL PERTINENT UTILITIES IN THE





A Baker

CONSULTING

5050 AVENIDA ENCINAS, SUITE 260 CARLSBAD, CALIFORNIA 92008-4386 760.476.9193 = FAX 760.476.9198 = www.RBF.com

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DATUM: CCS '83 ZONE 6,	VERTICAL		SE NO.: <u>4825</u>

CHECKED BY: DATE: 12/18/14

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GENERAL

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND.
- 2. SPECIFIC CODES AND DETAILS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES IN CASE OF CONFLICT, CONTACT THE ENGINEER FOR CLARIFICATION,
- 3. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS USED SHALL BE THE SAME AS FOR OTHER SIMILAR WORK, PROVIDED THAT PRIOR APPROVAL IS OBTAINED FROM THE ENGINEER,
- 4. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES WITH THE STRUCTURAL REQUIREMENTS,
- 5. THE DESIGN IS BASED ON THE 2013 CALIFORNIA BUILDING CODE-TITLE 24 PART 2. THE CALTRANS SHORING DESIGN GUIDE IS USED AS A RESOURCE REFERENCE.
- 6. NEITHER THE OWNER NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULA-TIONS, THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING. THE CONTRACTOR IS ALSO SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.

#### SOILS CRITERIA

- 1. AN EXPLORATION OF THE SOILS UNDERLYING THIS SITE WAS MADE BY NINYO & MOORE INC. AND IS DESCRIBED IN THEIR REPORTS DATED 3/8/2013 AND 11/4/13 UNDER PROJECT NUMBER 105198058. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE INFORMATION CONTAINED THEREIN BEFORE COMMENCING ANY WORK, ALL EXCAVATIONS AND SOIL PREPARATION SHALL BE IN CONFORMANCE WITH THIS REPORT.
- 2. CAISSON DEPTHS SHOWN AND ARE ASSUMED TO BE IN SUITABLE BEARING MATERIALS. THE ACTUAL ADEQUACY OF THE BEARING MATERIAL SHALL BE DETERMINED BY A REPRESENTATIVE OF THE GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF ANY REINFORCING STEEL OF CONCRETE, CAISSON DEPTHS SHALL BE ADJUSTED, OR OTHER REMEDIAL ACTION TAKEN, AS DIRECTED BY THIS REPRESENTATIVE AND APPROVED BY THE ENGINEER
- 3. BOTTOM OF ALL EXCAVATIONS SHALL BE CLEAR OF DEBRIS PRIOR TO CONCRETE PLACEMENT,
- 4. ALL ANCHORS & REBAR SHALL BE TIED IN PLACE PRIOR TO CALLING FOR INSPECTION.
- 5. THE ACTIVE SOIL PRESSURE FOR UNRESTRAINED RETAINING WALLS WITH LEVEL BACKFILL 13 48 PCF (E.F.P.), THE BUOYANT ACTIVE SOIL PRESSURE WITH LEVEL BACKFILL 13 24 PCF (E.F.P.), IN ADDITION TO HYDROSTATIC FLUID PRESSURE OF 62.4 PCF. THE SHORT-TERM UNIFORM SURCHARGE FOR CONSTRUCTION EQUIPMENT IS 120 PSF.
- 6. THE PASSIVE PRESSURE ALLOWANCE FOR EMBEDDED PORTION OF SOLDIER PILES IS 400 PCF (E.F.P.), FOR PILES THAT ARE EMBEDDED IN COMPETENT FORMATIONAL MATERIAL AS DESCRIBED IN SOILS REPORT. CAISSON DEPTHS MAY NEED TO BE ADJUSTED BY THE GEOTECHNICAL CONSULTANT BASED ON LOCALLY OBSERVED CONDITIONS,

REINFORCED CONCRETE

- 1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," LATEST APPROVED EDITION, WITH AMENDMENTS AS FOUND IN 2013 C.B.C. CHAPTER 19.
- 2. ALL REINFORCING DETAILS SHALL CONFORM TO THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE." LATEST EDITION.
- 3, REINFORCING, ANCHOR BOLTS, AND ALL OTHER EMBEDDED ITEMS SHALL BE SECURELY TIED IN POSITION AND INSPECTED AS REQUIRED PRIOR TO PLACING CONCRETE,

4. CONCRETE STRENGTHS:

THE CONCRETE STRENGTHS SHOWN IN THE FOLLOWING TABLE ARE MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS, THE AGGREGATES SHOWN ARE THE MAXIMUM SIZE (INCHES) AND THE WATER CONTENT SHOWN IS THE MAXIMUM RATIO, THE COMPRESSIVE STRENGTH OF CONCRETE SHALL BE PROPORTIONED AS REQUIRED ACT 318, SECTION 5.3. ITEM OF CONSTRUCTION (1/5 PCE AVE) GTOENCTU 

TEPT OF CONSTRUCTION (145 FCF AVE.)	SIRENGIH	AGGREGATE	N/C
A. "MALE" SECANT PILE CAISSONS	4,500 PSI	1 <sup>1</sup> /2 "	Ø.45
B. "FEMALE" SECANT PILE CAISSONS	500 PSI	3/8 "	N/A

TYPE II/V PORTLAND CEMENT SHALL BE USED IN ALL 'MALE' SECANT PILES.

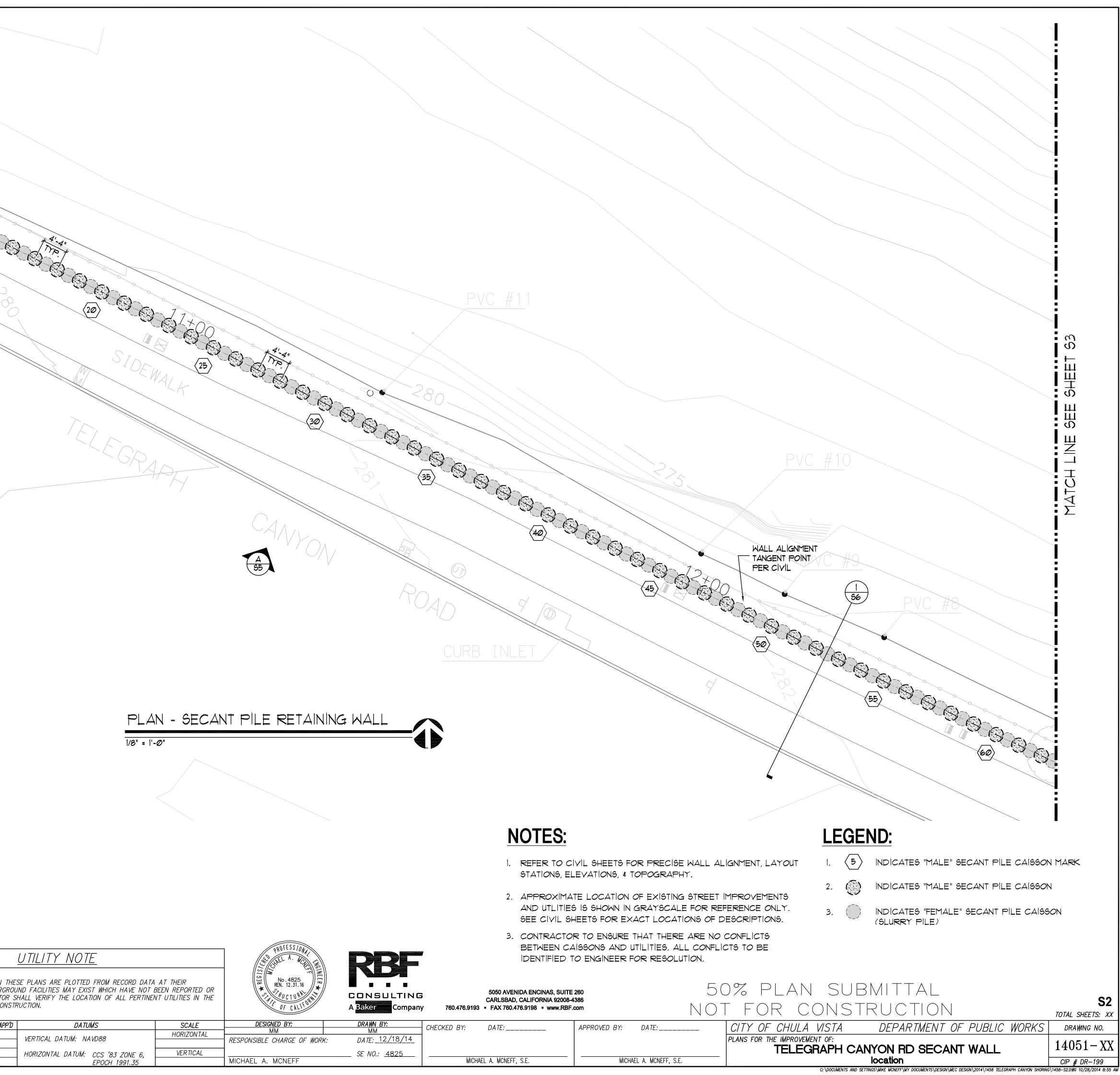
- 6. THE EVALUATION AND ACCEPTANCE OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF C.B.C. SECTION 1905.
- 1. MINIMUM PROTECTIVE CONCRETE COVERAGE OF REINFORCING:

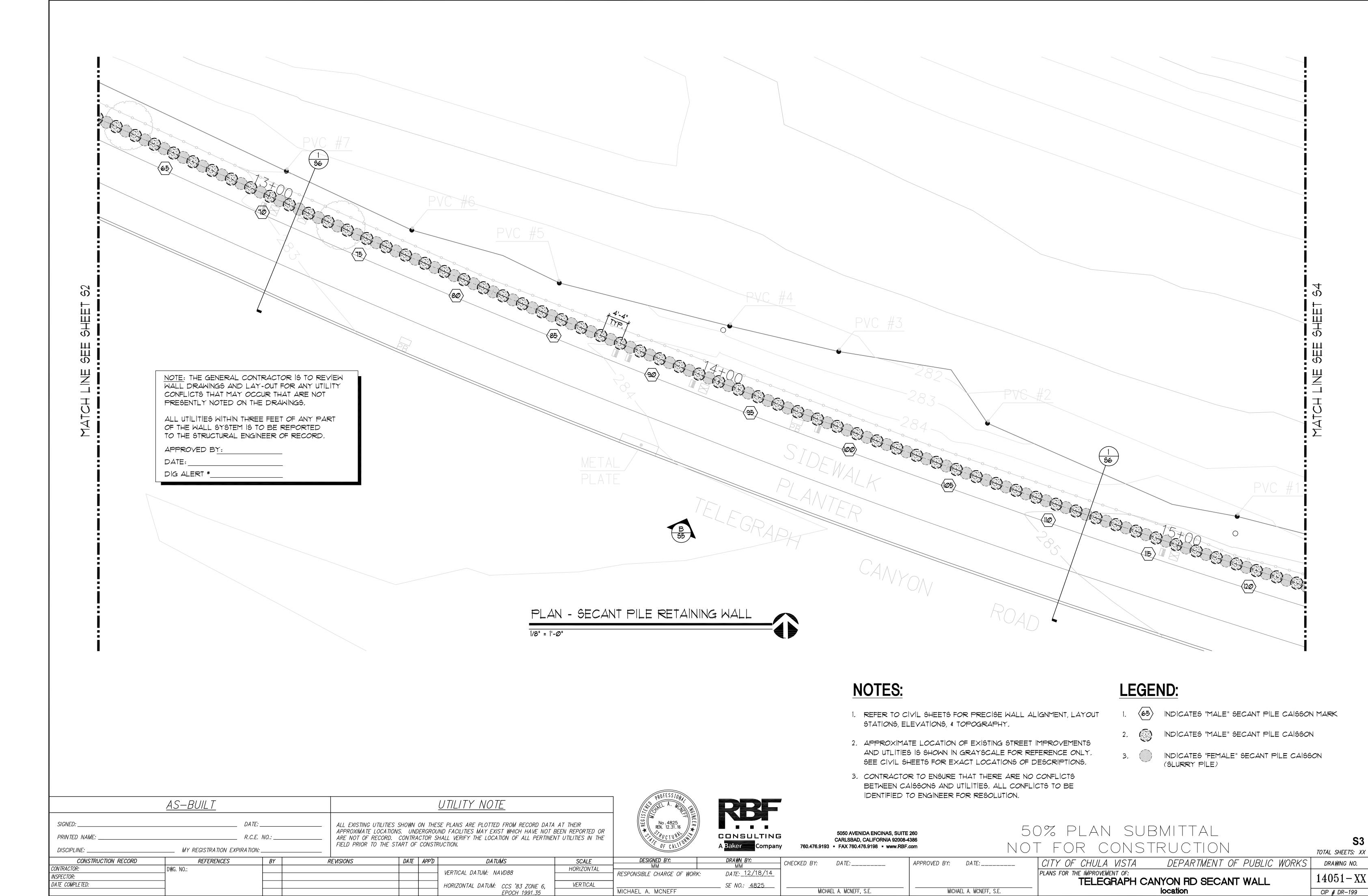
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Β,	EXPOSED TO EARTH OR WEATHER, NO. 6 & UP	.2	ÌN,
	EXPOSED TO EARTH OR WEATHER, NO. 5 & LESS		

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	PLANS FOR THE IMPROVEMENT OF:			14051 333
	TELEGRAPH CANYON RD	SECANT WALL		14051 - XX

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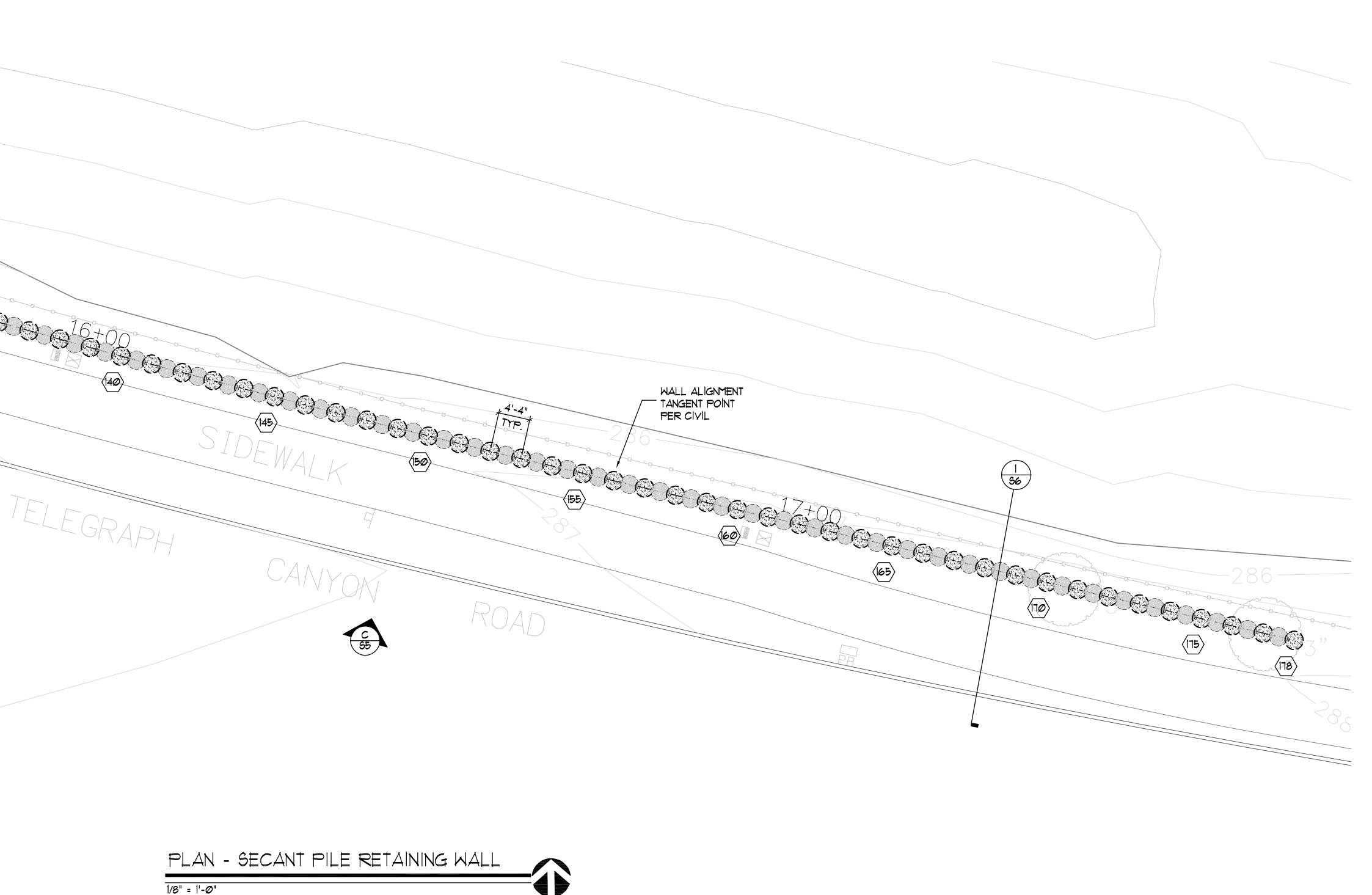
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	<u>AS–</u>	<u>BUILT</u>			<u>UTILITY</u>
					S SHOWN ON THESE PLANS ARE ONS. UNDERGROUND FACILITIES
				ARE NOT OF RECORD.	CONTRACTOR SHALL VERIFY 1 START OF CONSTRUCTION.
DISCIPLINE:	MY	Y REGISTRATION EXPIRATION REFERENCES	N: BY	REVISIONS	DATE APP'D
CONTRACTOR: INSPECTOR:	DWG. NO.:				VERTICAL DA
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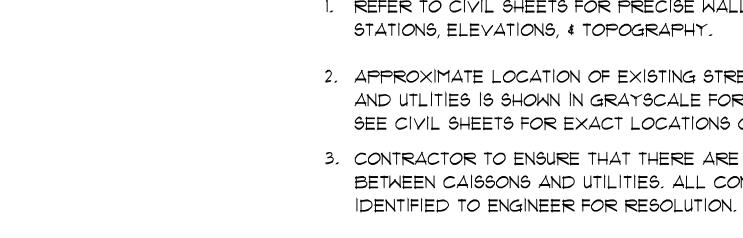




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MATCH LINE SEE SHEET S.	NOTE: THE GENERAL CON (25) (25) NOTE: THE GENERAL CON WALL DRAWINGS AND LAT CONFLICTS THAT MAY OCC PRESENTLY NOTED ON THE ALL UTILITIES WITHIN THRE OF THE WALL SYSTEM IS T TO THE STRUCTURAL ENGIN APPROVED BY: DATE: DIG ALERT *	TRACTOR IS -OUT FOR CUR THAT A E DRAWING E FEET OF O BE REPO	B TO REVIEW ANY UTILITY RE NOT S. ANY PART DRTED			a a b c c c c c c c c c c c c c c c c c
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CONSTRUCTION RECORD CONTRACTOR: INSPECTOR: DATE COMPLETED:	DWG. NO.:	BY	REVISIONS		APP'D	DATUN VERTICAL DATUM: NAT HORIZONTAL DATUM:





<u>NOTE</u> PLOTTED FROM RECORD DATA MAY EXIST WHICH HAVE NOT E THE LOCATION OF ALL PERTINEN	BEEN REPORTED OR	PROFESSION PROFESSION Wo.4825 REN. 12.31.16 SPUCTURN OF CALIFORN	CONSULTING A Baker Company		5050 AVENIDA ENCINAS, SUITE CARLSBAD, CALIFORNIA 92008- FAX 760.476.9198 • www.RBF	4386
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ATUM; NAVD88	HORIZONTAL	RESPONSIBLE CHARGE OF WORK:	DATE: <u>12/18/14</u>			
. DATUM: CCS '83 ZONE 6, EPOCH 1991.35	VERTICAL	MICHAEL A. MCNEFF	SE NO.: <u>4825</u>	MICHA	EL A. MCNEFF, S.E.	

NOTES:

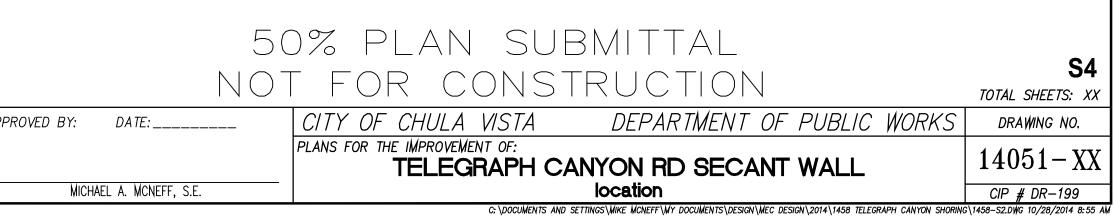
REFER TO CIVIL SHEETS FOR PRECISE WALL ALIGNMENT, LAYOUT

2. APPROXIMATE LOCATION OF EXISTING STREET IMPROVEMENTS AND UTLITIES IS SHOWN IN GRAYSCALE FOR REFERENCE ONLY. SEE CIVIL SHEETS FOR EXACT LOCATIONS OF DESCRIPTIONS.

3. CONTRACTOR TO ENSURE THAT THERE ARE NO CONFLICTS BETWEEN CAISSONS AND UTILITIES, ALL CONFLICTS TO BE

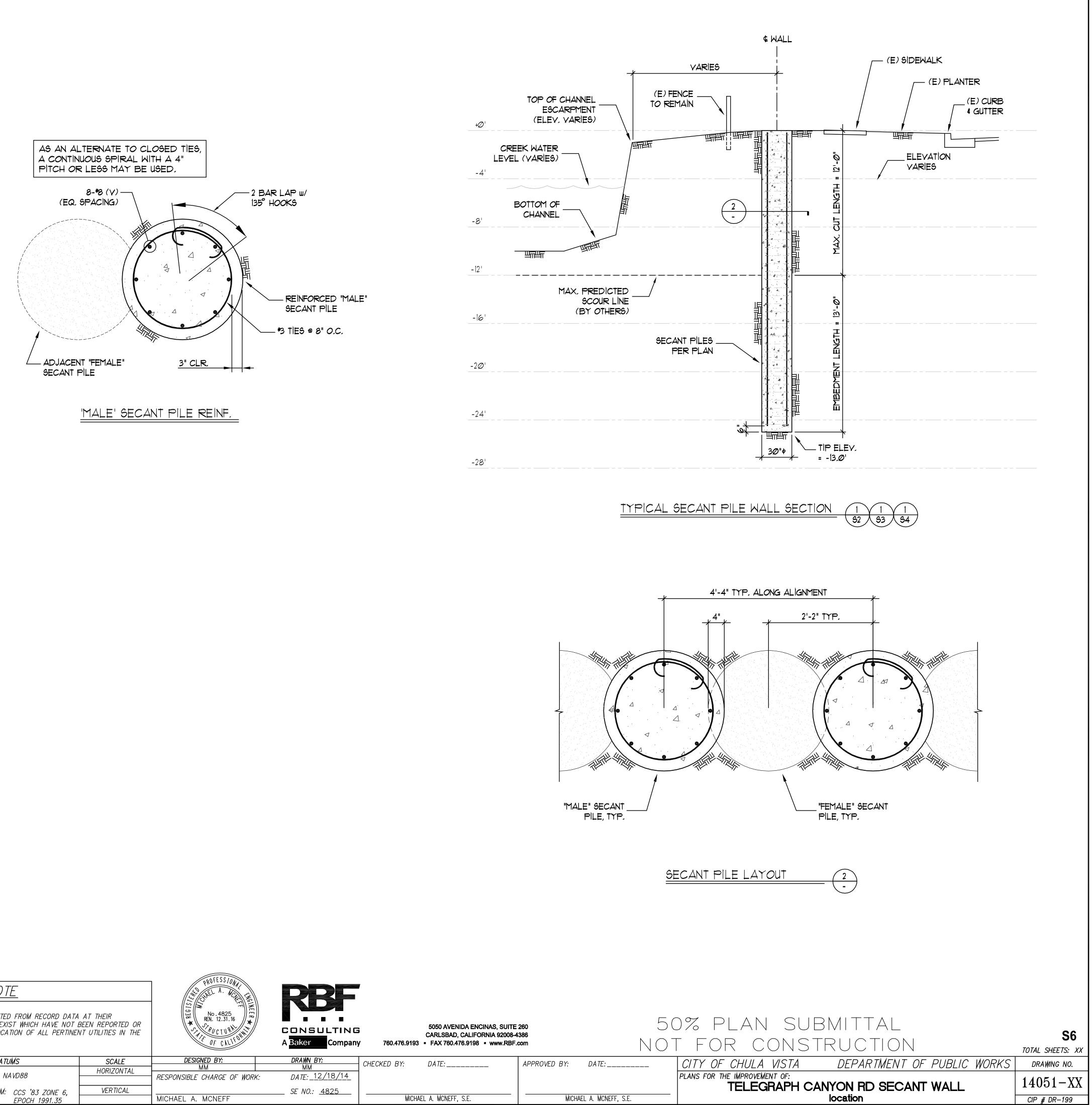
# LEGEND:

- (125) INDICATES "MALE" SECANT PILE CAISSON MARK
- INDICATES "MALE" SECANT PILE CAISSON 2.
- INDICATES "FEMALE" SECANT PILE CAISSON (SLURRY PILE) 3.

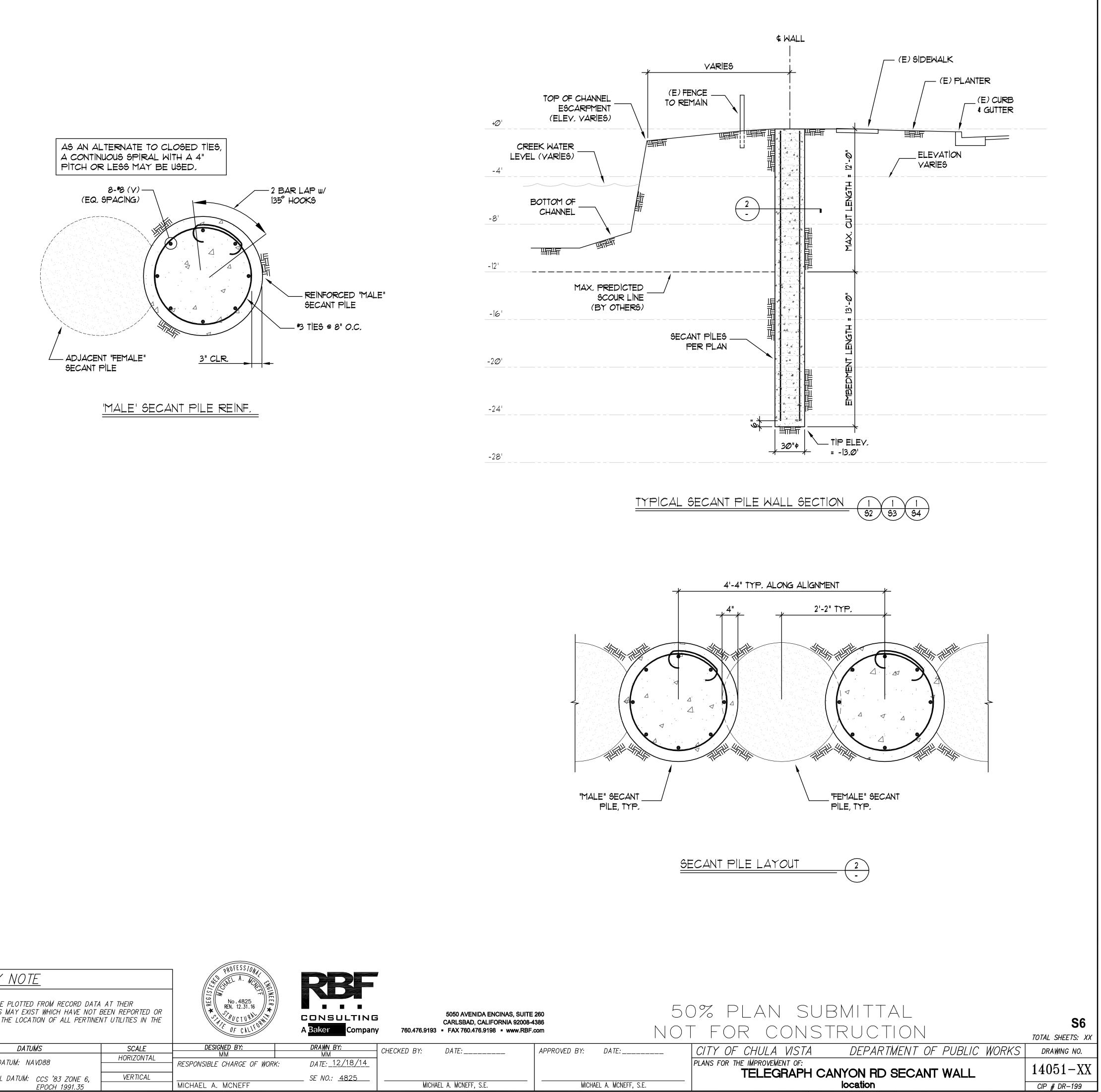


10+00 284'	(5) MAX, ( DEPTH	(10) CREEK BEYOND TW=280.0'	(15)	11+00	30	(35) TW=281.0'	40 MAX, CREEK DEPTH BEYOND	12+00 (50) 	(55) TW=282.5' 
	TW=279.2'								1       1
				SECANT PILE F 1/8" = 1'-0"	ETAINING WALL E	ELEVATION A			
<b>61</b> 288'	65	√TØ> 13+ØØ	(15) MAX, CREEK DEPTH BEYOND	85	(90)	95	(100)	MAX. CREEK DEPTH BEYOND 	(115) 15+00 (120) TW=285.3'288'
	TW=282.5'       TW=283.0'         I				- TW=284.0'				
				SECANT PILE F 1/8" = 1'-0"	ETAINING WALL E	LEVATION B			
(121) 292' 288' / T	(125) TW=285.3'	(130)	(135) 16+00 TW=286.0'-	(145)	(150)	(155) TW=287.@'	(60) 17+00	(ite)	(175) (178) 292' TW=287.8' 288'
284' 280' 280' 216' 216' 212' 268' 268' 1 1 1 1 1 1 1 1 1 1 1 1 1									
	SECANT PILE RETAINING WALL ELEVATION C								
				PROFE			1. REFER TO CIVIL SHEETS FOR LAYOUT STATIONS, ELEVATION	NS, & TOPOGRAPHY.	INDICATES "MALE" SECANT PILE CAISSON MARK
	<u>AS-BUILT</u>		<u>UTILITY NOTE</u>				2. REFER TO SHEET SG FOR WA		INDICATES ELEVATION AMOL
SIGNED: PRIN TED NAME: DISCIPLINE: CONSTRUCTIO CONTRACTOR: INSPECTOR: DATE COMPLETED:	My registration expl	R.C.E. NO.: ARE NOT OF R	UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECO LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HA RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL TO THE START OF CONSTRUCTION. DATE APP'D DATUMS VERTICAL DATUM: NAVD88 HORIZONTAL DATUM: CCS '83 ZC EPOCH 199	RD DATA AT THEIR VE NOT BEEN REPORTED OR PERTINENT UTILITIES IN THE SCALE HORIZONTAL RESPONSIBLE CHARCE	CONSULT       CNSULT       A Baker       Consult       Baker       Baker <td>5050 AVENIDA ENCINAS, CARLSBAD, CALIFORNIA           pany         760.476.9193           CHECKED BY:         DATE:</td> <td>, SUITE 260 92008-4386</td> <td>ll sections. 0% PLAN SUBMI<sup>-</sup> T FOR CONSTRU</td> <td>TTAL CTION BARTMENT OF PUBLIC WORKS DRAWING NO.</td>	5050 AVENIDA ENCINAS, CARLSBAD, CALIFORNIA           pany         760.476.9193           CHECKED BY:         DATE:	, SUITE 260 92008-4386	ll sections. 0% PLAN SUBMI <sup>-</sup> T FOR CONSTRU	TTAL CTION BARTMENT OF PUBLIC WORKS DRAWING NO.

	<u>AS-BUILT</u>					UTILITY
		4 TE: C.E. NO.: TION:	APPROXIMATE LOCATIO ARE NOT OF RECORD. FIELD PRIOR TO THE	DNS. UNL CONTRA	DERGROU ACTOR SI	ND FACILITIES . HALL VERIFY TH
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	DATE	APP'D	
CONTRACTOR: INSPECTOR: DATE COMPLETED:	D₩G. NO.:					VERTICAL DA HORIZONTAL







C; \DOCUMENTS AND SETTINGS\MIKE MCNEFF\MY DOCUMENTS\DESIGN\MEC DESIGN\2014\1458 TELEGRAPH CANYON SHORING\1458-S6,DWG 10/28/2014 8:55 AM