CALIFORNIA COASTAL COMMISSION

SOUTH COAST DISTRICT OFFICE 301 E. OCEAN BLVD., SUITE 300 LONG BEACH, CA 90802-4830 (562) 590-5071



F15a

5-23-0193 (SoCalGas) November 17, 2023

EXHIBITS

- Exhibit 1 Vicinity Map and Project Site
- Exhibit 2 Project Plans
- Exhibit 3 Project Rendering
- Exhibit 4 Avoidance and Minimization Measures
- Exhibit 5 Construction Staging Areas
- Exhibit 6 Tract Map 20362 and Historic Aerials/Documents



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GENERAL SPECIFICATIONS FOR GRADING:

PERMIT NO. XXXXXX JOB ADDRESS: PLAYA DEL REY STORAGE FIELD

- 1. SPECIFICATIONS SHALL HAVE PRECEDENCE OVER DRAWINGS. 2 THE STAMPED SET OF PLANS SHALL BE ON THE JOB SITE AT ALL TIMES.
- 3.
- NO WORK WHATSOEVER SHALL BE STARTED IN OR ABOUT A GRADING PROJECT WITHOUT FIRST NOTIFYING THE GRADING INSPECTOR.
- GRADING (INCLUDING THE EXPORT OR IMPORT OF EARTH MATERIAL) SHALL NOT BE 4 CONDUCTED BETWEEN THE HOURS OF 6:00 P.M. AND 8:00 A.M. ON ANY DAY, NOR ON SUNDAY AT ANY TIME, EXCEPT IN EMERGENCIES AS PROVIDED IN 97.7001(F).
- OWNER SHALL KEEP THE CONSTRUCTION AREA MOISTURE CONDITIONED TO CONTROL DUST CAUSED BY GRADING AND CONSTRUCTION. OWNER SHALL, AT ALL TIMES, PROVIDE REASONABLE CONTROL OF DUST CAUSED BY WIND.
- IF A GRADING JOB EXTENDS OVER A PERIOD OF TIME EXCEEDING SIX CALENDAR MONTHS, THE DEPARTMENT MAY REQUIRE PLANTING OF THOSE PORTIONS OF THE JOB WHERE ALL OTHER GRADING REQUIREMENTS HAVE BEEN MET IN ORDER TO PREVENT 6. WHERE ALL OTHER O DUST AND EROSION.
- HIGHWAY EQUIPMENT SHALL BE KEPT IN GOOD OPERATING CONDITION AND MUFFLED AS REQUIRED BY LAW. 7.
- CONTRACTOR SHALL CONTROL NOISE RESULTING FROM REPAIR OF HEAVY EQUIPMENT AFTER NORMAL WORKING HOURS BY LOCATING SUCH ACTIVITIES AS FAR AS PRACTICABLE FROM ADJACENT INHABITED AREAS AND SO THAT SUCH ACTIVITIES DO NOT CONSTITUTE A PUBLIC NUISANCE OR DISTURB THE PEACE.
- THE TRAFFIC BUREAU OF THE LOS ANGELES POLICE DEPARTMENT SHALL BE NOTIFIED PRIOR TO THE START OF HAULING. (213) 485-3106. 10. A HAUL ROUTE SATISFACTORY TO THE GRADING DIVISION SHALL BE DETAILED ON THE PLANS.
- 11. THE EXPORT OR IMPORT OF THE FILL MATERIAL SHALL BE COMPLETED WITHIN THE MAXIMUM TIME LIMIT OF ______R/a____ FROM THE START.
- 12. THE FILL MATERIAL IN EACH TRUCKLOAD SHALL BE KEPT LOW ENOUGH TO PREVENT SPILLAGE AND SHALL BE SUFFICIENTLY WET DOWN TO PREVENT DUST.
- 13. NO PERSON SHALL, WHEN HAULING ANY EARTH, SAND GRAVEL, ROCK, STONE, DEBRIS, PAPER OR OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE, ALLOW SUCH MATERIALS TO BLOW OR SPILL OVER AND UPON THE PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE OR ADJACENT PRIVATE PROPERTY.
- 14. NOREPOST SHALL WENT RECORDER OF APARTMENT AND AND A CARTHAU AND A CARTHAUCH A
- PERMISSION SHALL BE SECURED FROM THE DEPARTMENT OF PUBLIC WORKS IF THE TRUCKS ARE LOADED IN THE STREET.
- THE LOCATION FOR DUMPING EXCESS SOIL SHALL BE APPROVED BY THE GRADING INSPECTOR PRIOR TO STARTING EXCAVATION.
- 17. BRUSHING AND SCARIFYING OF SLOPES SHALL PROCEED ONLY AS FAR AS PERIODICALLY CLEARED BY THE GRADING INSPECTOR.
- 18. SLOPES SHALL BE CLEARED AND GRUBBED AND BRUSHED PRIOR TO PLACING FILL.
- 19. LOOSE MATERIAL SHALL NOT EXCEED 3" IN DEPTH ON A FILLED SLOPE.
- 20. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE.
- 21. ALL LOOSE FILL SHALL BE REMOVED AND COMPACTED.
- 22. BUILDINGS SHALL BE LOCATED CLEAR OF THE TOE OF ALL SLOPES WHICH EXCEED A SLOPE OF TWO HORIZONTAL TO ONE VERTICAL ACCORDING TO THE FOLLOWING:
- SLOPE OF THO FONDAMINE OF THE FEEL OR ADDAMING TO THE FOLDAMING. VERTICAL HEIGHT. 222. ONE-THAT THE VERTICAL HEIGHT WITH A MAXIMUM OF 15 FEET FOR SLOPES EXCEEDING SIX FEET. COST OF CUT SLOPES SHALL NOT BE MADE NEARER TO A PROPERTY LINE THAN ONE FOR SUPERIOR STALL FOR THE ADDE NEARER TO A PROPERTY LINE THAN ONE HORIZONTAL DISTANCE OF TEN FEET.
- 24. DRIVEWAY GRADES EXCEEDING 10 PERCENT SHALL BE PAVED.
- 25. IF, AT ANY STAGE OF WORK ON AN EXCAVATION OR FILL, THE LADBS (LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY) DETERMINES BY INSPECTING THAT FURTHER PROPERTY OF PUBLIC WAY, THE DEPARTMENT MAY REQUIRE & S A CONDITION TO ALLOW THE WORK TO CONTINUE THAT PLANS FOR SUCH WORK BE AMENDED TO INCLUEE ADDULATE SAFETY PRECAUTIONS.
- 26. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE FROM BEGINNING TO COMPLETION OF GRADING OPERATIONS.
- ALL RECOMMENDATIONS AND CONDITIONS OF THE SOILS REPORT BY GEOSYNTEC CONSULTANTS, INC. DATED 3/27/2020, SHALL BE A PART OF THE PLANS. THE SOLS ENGINEER AND CIVIL ENGINEER SHALL CAMPLY WITH REA-4-67 AND 5-67 AND SHALL PROVDE THE DEPARTMENT WITH A GRADING CERTIFICATION UPON COMPLETION OF THE JOB.
- 29. AN AS-GRADED PLAN AT A SCALE OF 1"=40' PREPARED BY THE TRACT CIVIL ENGINEER SHALL BE SUBMITTED WITH THE REQUIRED GRADING CERTIFICATIONS TO THE DEPARTMENT UPON JOB COMPLETION.
- 30. THE PERMITTEE SHALL PROVIDE SUPERVISORY CONTROL DURING THE CONSTRUCTION.
- 31. GRADING IN OR ADJACENT TO THE PUBLIC PROPERTY REQUIRES DEPARTMENT OF PUBLIC WORKS' APPROVAL.
- 32. ALL GRADING SLOPES SHALL BE PLANTED AND SPRINKLERED (7012.1).
- 33. NO FILL TO BE PLACED, UNTIL THE CITY INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION.
- 34. STANDARD 12 INCH HIGH BERM IS REQUIRED AT TOP OF ALL GRADED SLOPES 1
- 35. MAN-MADE FILLS SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF

- 90% MAX DRY DENSITY WITHIN 40 FT BELOW FINISH GRADE AND 93% OF MAX DRY DENSITY DEEPER THAN 40 FT BELOW FINISH GRADE PER ASTM D1557, UNLESS A LOWER RELATIVE COMPACTION (NOT LESS THAN 90% OF MAX DRY DENSITY) IS JUSTIFIED BY THE SOILS ENGINEER.
- 36. FILLS AND BACKFILLS SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING ABOUT 6-B INCHES IN THICKNESS, BROUGHT TO NEAR-OPTIMUM MOISTURE CONTENT IN-PLACE, AND COMPACTED TO AT LEAST 90% OF THE MAX DRY DENSITY PER ASTM D-1557 USING MECHANICAL COMPACTION EQUIPMENT.
- 37. TEMPORARY EROSION CONTROL TO BE INSTALLED BETWEEN OCTOBER 1 AND APRIL 15. OBTAIN GRADING INSPECTOR'S AND DEPARTMENT OF PUBLIC WORKS APPROVAL OF PROPOSED PROCEDURES [2200 C7] (7007.1).

<u> /1</u> INSPECTION OF EXCAVATION AND FILLS:

- THE CONTRACTOR OR HIS AGENT SHALL NOTIFY THE SUPERINTENDENT WHEN THE GRADING OPERATION IS READY FOR EACH OF THE FOLLOWING INSPECTIONS: 1.
- INITIAL INSPECTION: WHEN THE CONTRACTOR IS READY TO BEGIN WORK, BUT BEFORE ANY GRADING OR BRUSHING IS STARTED. TOE INSPECTION: AFTER THE NATURAL GROUND IS EXPOSED AND PREPARED TO RECEIVE FILL, BUT BEFORE ANY FILL IS PLACED. 2.
- EXCAVATION INSPECTION: AFTER THE EXCAVATION IS STARTED, BUT BEFORE THE VERTICAL DEPTH OF THE EXCAVATION EXCEEDS TEN FT. 3.
- FILL INSPECTION: AFTER THE FILL PLACEMENT IS STARTED, BUT BEFORE THE VERTICAL HEIGHT OF THE LIFTS EXCEEDS TEN FT.
- DRAINAGE DEVICE INSPECTION: AFTER FORMS AND PIPE ARE IN PLACE, BUT BEFORE ANY CONCRETE IS PLACED. 5.
- ROUGH CREARING: WHEN ALL ROUGH GRADING HAS BEEN COMPLETED. THIS INSPECTION MAY BE CALLED FOR AT THE COMPLETION OF THE ROUGH GRADING WITHOUT THE NECESSITY OF THE DEPARTMENT HAVING PREVIOUSLY REVIEWED AND APPROVED THE REPORTS. 6.
- FINAL: WHEN ALL WORK, INCLUDING INSTALLATION OF ALL DRAINAGE STRUCTURES AND OTHER PROFECTIVE DEVICES, HAS BEEN COMPLETED AND THE AS-GRADED PLAN AND REQUIRED REPORTS HAVE BEEN SUBMITED

AND REQUIRED REPARTS TARE BEEN SUBMITED ISSUARCE OF CERTIFICATE. IF, UPON INSPECTION OF ANY EXCAVATION OR FILL, IT IS FOUND THAT THE WORK AUTHORIZED BY THE GRADING PERMIT HAS BEEN SATISFACTORILY COMPLETED IN ACCORDANCE. WITH THE REQUIREMENTS OF THIS COOR, A GRADING CERTIFICATE COVERNIC SUCH WORK SHALL BE ISSUED TO THE OWNER BY THE SUPERIMETEDDRY TO FULLIONE, ON THE OWNER'S ROUGHST AS EPARATE CERTIFICATE WILL DEFENSIVE DRY AND THE OWNER'S ROUGHST AS EPARATE CERTIFICATE WILL FOR PROBA TO THE COMPLETION OF GRADING. THIS PLAN SET IS NOT FOR CONSTRUCTION UNLESS IT IN CUDES CIT APPRVALS. UNLESS IT INCLUDES CITY APPROVALS.

LEGAL DESCRIPTION

SITE ADDRESS: 8141 SOUTH GULANA AVE, PLAYA DEL REY, CALIFORNIA TRACT-20362, LOT-LT1, BLOCK-NONE, GRANT DEED-NONE, BOOK-MB 633-44/45

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APPLICANT: GEOSYNTEC CONSULTANTS INC. 1031 S BROADWAY SUITE 300

LOS ANGELES, CALIFORNIA, 90015 PH: 310-957-6100

OWNER/DEVELOPER:

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MS. KARINEH GREGORIAN, SENIOR GAS ENGINEER
                                                 \triangle
SOUTHERN CALIFORNIA GAS COMPANY
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555 W 5TH STREET LOS ANGELES, CALIFORNIA, 90013

CIML/GEOTECHNICAL ENGINEER: GEOSYNTEC CONSULTANTS INC, 1031 S BROADWAY

SUITE 300 LOS ANGELES, CALIFORNIA, 90015

PH: 310-957-6100

CIVIL REPRESENTATIVE: DANIEL LEE, P.E. RICHARD GONZALEZ, P.E.

GEOTECHNICAL REPRESENTATIVE: BORA BATURAY, P.E., G.E. SAVERIO SICILIANO, P.G., C.E.G.

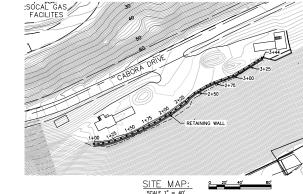
DESCRIPTION OF WORK

CONSTRUCTION OF RETAINING WALLS AND PERMANENT DRAINAGE. REFER TO EARTHWORK QUANTITIES HEREON

PLAYA DEL REY STORAGE FIELD CABORA DRIVE SLOPE REPAIR PLAYA DEL REY, LOS ANGELES COUNTY, CA

JULY 2023

		DRAWING INDEX
SHEET NO.	DRAWING NO.	DRAWING TITLE
1	8001	TITLE SHEET
2	8002	GENERAL NOTES
3	8003	EXISTING SITE CONDITIONS
4	8004	SOLDIER BEAM AND LAGGING WALL
5	8005	SOLDIER BEAM & LAGGING WALL (CONT)
6	8006	RETAINING WALL CROSS SECTIONS
7	8007	GUTTER DETAIL
8	8008	GRADING PREINSPECTION REPORT
9	8009	SOILS AND GEOLOGY REPORT AND APPROVAL LETTER



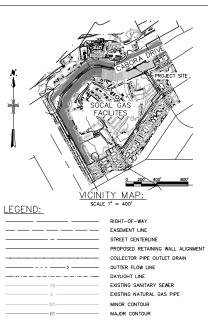
ESTIMATED EARTHWORK QUANTITIES

RAW CUT (DRILLING): 55 CY FILL (CONCRETE): 55 CY RAW CUT (FARTHWORK): 20 Ch BULK FILL (FARTHWORK): 60 CY NET IMPORT (EARTHWORK): 40 CY NET EXPORT (EARTHWORK): 0 CY THE ABOVE LEARNINGTORY; TO UT NET EXPORT (EARNINGRK): 0 CY THE ABOVE LISTE QUANTITIES REFLECT THE ENRINEES'S ESTIMATE OF THE EARNINGRK VOLUMES. THESE QUANTITIES ARE FOR DESIGN AND BONDING PURPOSES ONLY, AND NOT FOR CONTRACT PURPOSES THE CONTRACTOR IS RESPONSIBLE FOR COMPUTING HIS OWN QUANTITIES.

GEOTECHNICAL APPROVAL

THIS PLAN HAS BEEN REVIEWED AND CONFORMS TO RECOMMENDATIONS OF SOILS ENGINEERING/GEOLOGIC REPORT DATED 03/27/2020 BY GEOSYNTEC CONSULTANTS, INC.





ABBREVIATIONS

ASTM

AWS

F FG FL FT FY

GR PIC MAX MINC MISC PSIG SCH SCG SD SS SS SS SS SS

SSPWC STA TOW TYP

AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WELDING SOCIETY BOTTOM OF WALL SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE FINISHED GRADE FOOT/FEET REINFORCING BAR YIELD STRESS GAS LINE GAS LINE GRADE HIGH POINT INCORPORATED INVERT ELEVATION MAXIMUM MINIMUM MINIMUM MISCELLANEOUS POUNDS PER SQUARE INCH SOUTHERN CALIFORNIA GAS COMPANY SCHEDULE STORM DRAIN SQUARE FOOT/FEET STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION STATION TOP OF WALL TYPICAL

BENCH MARK

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVDB8) ESTABLISHED BY A OPS SURVEY TIED TO NATIONAL GEODETIC SURVEY (NGS) BERCHMARK NO. "TIDAL 2" ELEVATION: "17.57" AND USING A HIGH RESOLUTION GEOID MODEL (GEOID 12A).

AKA LA CITY BM 17-11700, NGVD 1929, ELEV 15,226

USC&GS BM DISC *STMPD TIDAL NO.2 1967* IN FIJI WAY IN CTR OF CURB RETURN N END OF MEDIAN: 28 FT OF CTR LINE OF N DRVWY ENTRANCE TO ADMINISTRATION PARKING LOT; 0.69MI W/O ADMIRALTY WAY

BASIS OF BEARINGS

DATE: 07-07-2023

TE: 08-24-2020

BEARINGS, DISTANCES AND COORDINATES SHOWN HEREON ARE GRID, BASED ON THE CALIFORNIA STATE PLANE COORDINATE SYSTEM, NAD83, ZONE 5 (EPOCH 2010,000) ESTABLISHED BY A GPS SURVEY TIED TO CSRC CORS STATIONS "UCLP" & "SPK1"

DICALDOT	0		(APIER)	INSTALL PIPE WITH AT LEAST	or cover selow Grade		PERMIT INFORMATION		1 6/22/2	2020 SO	BL				81	DATE		PDR STORAGE FIELD
DIGALERT	-eosimter	1031 S BROADWAY	APRIL DOWN BY	COUNTY: LOS ANGELES	DATE MOVED CH:	WOA	ISSUED BY	NJWBER	2 7/7/2	023 RG	88				designed: B. LANTHIER	04/24/2020	1	CABORA WELLS RETAINING WALL
DIG	UCOSVILLCC		18/2 72.9	DISTRICT:	DATE NOVED OFT:										DRAWN: R. GONZALEZ	04/24/2020	Collers .	
		SUITE 300	Har Die Sans 3	STRP MAP NO.:	DATE OF OPERATION:										CHEORED: B. LANTHIER	04/24/2020	W coresono	PLAYA DEL REY
	consultants	LOS MIGLES, ON SOUND	1 Em 7/80/24 1	ATLAS NO.:	CONST. CREW FOREMANE										PROJ APV:		A Caragon Dampy any	TITLE SHEET 8141 GULANA AVE, PLAYA DEL REY, CA 90293
W	constituints	TEL: (310) 957-6100	Chexicher /+	7 DOT CL 🛛 🖓 🖓 🖓	CONST. COMPANY:										SCO ENC APV:			8141 GULANA AVE, PLAYA DEL REY, CA 90293
	and the second second second second		PACTED NO. 15	CATHODICALLY PROTECTED:	REGION:									6			ASS DEC DET	
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GRADING NOTES:

- GRADING SHALL CONFORM TO DEPARTMENT OF BUILDING AND SAFETY GENERAL SPECIFICATIONS FOR GRADING PLANS, FORM B-164, WHICH SHALL BE CONSIDERED A PART OF THESE PLANS.
- ALL RECOMMENDATIONS OF THE HEREIN MENTIONED SOILS REPORT AND ADDENDUMS SHALL BE MADE A PART OF THESE PLANS.
- NO WORK SHALL COMMENCE UNTIL A GRADING PERMIT IS ISSUED BY THE DEPARTMENT OF BUILDING AND SAFETY.
- ALL CONCENTRATED DRAINAGE MUST BE CONDUCTED TO THE STREET IN APPROVED NON-EROSIVE DEVICES.
- MATERIAL IN, OR ADJACENT TO, AREAS UNDER THE JURISDICTION OF THE BOARD OF PUBLIC WORKS, WHICH, IN A NATURAL POSITION, IS UNSTABLE AND CONSTITUTES A POTENTIAL SLIDE, SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS OFFICE.
- ALL PROPOSED ELEVATIONS SHOWN ON THE ROUGH GRADING PLAN ARE TO FINISHED SURFACE. THE CONTRACTOR SHOULD DEDUCT THE THICKNESS OF THE PAVEMENT STRUCTURAL SECTION FOR TOP OF SUBGRADE ELEVATIONS. WHERE THERE IS AN EXISTING STORM DRAIN IN THE STREET, DRAINAGE DEVICES FROM THE SLOPES SHALL BE CONNECTED TO THE STORM DRAIN.
- THE SLOPES SHALL BE CONNECTED TO THE STORM DRAIN. IF AT ANY THE DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED FROM THE SOILS ENGINEER/ENGINEERING GEOLOGIST OR HIS REPRESENTATIVE. 8.
- ALL GRADED SLOPES SHALL BE PLANTED.
- STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
- ELEVATIONS UNLESS UTTERMISE STOWN ON THE PLANS. FILLS AND BACKFILLS SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING ABOUT 6-8 INCHES IN THICKNESS, BROUGH TO NEAR-OPTIMUM MOISTURE CONTENT IN-PLACE, AND COMPACTED TO AT LEAST 90X OF THE MAX DRY DENSITY PER ASTM D-1557 USING MECHANICAL COMPACTION EQUIPMENT. 11.
- 12. ALL AREAS TO RECEIVE FILL SHALL BE INSPECTED BY THE SOILS ENGINEER/ENGINEERING GEOLOGIST OR REPRESENTATIVE OF THE SOILS ENGINEER/ENGINEERING GEOLOGIST PRIOR TO PLACING OF FILL MATERIALS.
- 13. PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS, THE PRIVATE ENGINEER MUST CERTIFY, IN WRITING, TO THE DISTRICT ENGINEER THAT GRADING IN AND ADJACENT TO THE STREET OR RIGHT-OF-WAY IS ESSENTIALLY COMPLETE AND IN ACCORDANCE WITH ROVED PLANS. CERTIFICATION MAY BE IN PHASES TO FACILITATE CONSTRUCTION
- THE CONTRACTOR IS REMINDED TO GIVE REASONABLE NOTICE TO ADJACENT OWNERS OR OCCUPANTS OF THE PROPOSED IMPROVEMENT FRONTING THEIR PROPERTY PER SECTION 7-9 OF THE STANDARD SPECIFICATIONS.
- ALL WORK DETAILED ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATESE EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SPPWC), INCLUDING AMENDMENTS, AND THE MODIFIED STANDARD SPECIFICATION BY THE CITY OF LOS ANGELES.
- SPECIFICATION BY THE CITY OF LOS ANGELES. THE SOLIS ENGNEER OR HIS REPRESENTATIVE IS TO APPROVE THE KEY OR BOTTOM OF EXCAVATION AND LEAVE A CERTIFICATE ON THE SITE FOR THE GRADING INSPECTOR. THE GRADING INSPECTOR IS TO BE NOTIFIED BEFORE ANY GRADING BECINES AND, FOR BOTTOM INSPECTION, BEFORE ANY FILL IS PLACED. FILL MAY NOT BE PLACED WITHOUT APPROVAL OF THE GRADING INSPECTOR.
- DOCUMENTS: PLANS, REPORTS, APPROVAL LETTERS, SURVEY, CITY PLANNING LETTERS, ETC, SHALL BE ON SITE FOR INSPECTION. THE PROJECT SUPERVISING GRADING DEPUTY AND SOLS ENGINEER OR HIS REPRESENTATIVE SHALL BE PRESENT. 17.
- DEPUT AND SENSITIVE OWNERA OF INS REPRESENTATIVE STALL DE PRESENT IS. ALL EARTHWORK SHALL DE PERFORMED UNDER CONTINUOS OBSERVITION AND TESTING BY THE PROJECT SOILS ENGINEER OR REPRESENTATIVE OF THE SOILS ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE THE RELATED SERVICES AT LEAST 24 HOURS IN ADVANCE.
- LATERAL SUPPORT SHALL NOT BE REMOVED FROM ADJACENT PROPERTIES, STRUCTURES, OR PUBLIC RIGHT-OF-WAYS.
- 20. REGISTERED DEPUTY GRADING INSPECTOR IS REQUIRED ON GRADING AND FOUNDATION EARTHWORK WHERE:
- SHORING WORK INCLUDING SLOT CUTS

EROSION CONTROL:

- PLANS FOR TEMPORARY EROSION CONTROL SHALL COMPLY WITH ORDINANCE NO. 135.199 WHICH BECAME EFFECTURE SEPTEMBER 15, 1967, AMENDING SECTION 91.3002, SECTION 62.111, AND ADDING SECTION 61.02 TO THE LOS ANGELES MUNICIPAL CODE.
- DESILTING BASINS REQUIRED FOR TEMPORARY EROSION CONTROL WILL NOT BE PERMITTED IN THE STREET AREAS UNLESS SPECIFICALLY AUTHORIZED BY THE DISTRICT ENGINEER.

PRIVATE ENGINEER'S NOTICE TO

CONTRACTORS

DIGALERT

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- LINITO OF VORK STOWN AFE CHPRONUME THE CONTRACTOR IS REPORTED FOR UNITED TO THE STOWN AFE CHPRONUME THE CONTRACTOR IS REPORT OF COMPLETE THE WORK PROG TO COMMENDING CONSTRUCTON, THE CONTRACTOR SHALL VERTY ALL EXISTING CONDITIONS FOR GRADING, DRAINAGE AND UNDERGROUND FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FORTER FRAN THOSE SHOWN IN THE PRO INFORMATION OF THE CONTRACTOR DIFTER FRAN HOSE SHOWN IN THE PRO INFORMATION UNTIL THE CONTRACTOR HAVE BEENE VERYLAWED TO SHOWN IN THE PRO INFORMATION UNTIL THE CONTRACTOR HAVE BEENE VERYLAWED AND SHOWN INFORMATION OF DISTINGTION HAVE BEENE VERYLAWED FOR THE CONTRACTOR OF DISTING UNDERGROUND AND THE FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DIFTER FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DIFTER FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DIFTER FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DIFTER FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DIFTER FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DIFTER FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DIFTER FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DIFTER FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DIFTER FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DIFTER FRANCH AND SHOWN INFORMATION OF DISTING UNDERGROUND TO DISTING OF DISTING OF DISTING OF DISTING UNDERGROUND TO DISTING OF DISTING OF
- HAVE BEEN EVALUATED. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OF PRECAUTIONARY BEASAGES TO PROTECT THE UTILITY LINES SHOWN AND DATY OTHER PRECAUTIONARY BEASAGES TO PROTECT THE UTILITY LINES SHOWN AND DATY OTHER LINES NOT OF RECORD OF NOT SHOWN ON THESE PLANS INCLUDING POINTOING FOR DATION

Geosyntec^D

consultants

1031 S BROADWAY

SUITE 300 LOS ANGELES, CA 90015

TEL: (310) 957-6100

- MAINTAIN DRILL HOLES AWAY FROM SANITARY SEWER LINES.
- MAINTAIN DRILL HOLES AWAY FROM SANITARY SEWER LINES. THE CONTRACTOR SHALL ASSUME SQLE AND COMPLETE RESPONSIBILITY FOR THE JOB STE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROFERTY, DURING THE CONTRUCTOR SOLE SUBJECT OF THIS FROLECT. THIS FROLENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DESUMENTY AND HOLD THE OWNER HOURS. THE FROM ANY AND ALL DEFEND, INCLUDING THE OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF MORK ON THIS FROLECT.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGY REPORTS, AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.
- SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER BEFORE PROCEEDING WITH THE WORK IN OUFSTION

DEPARTMENT OF PUBLIC WORKS NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS UNDER THE JURISDICTION OF THE BOARD OF PUBLIC WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND IN THE PRESENCE OF AN INSPECTOR APPOINTED BY THE BOARD OF PUBLIC WORKS. 1.
- THIS GRADING PLAN WHEN APPROVED BY THE DISTRICT ENGINEER, AS WELL AS PERMITS FOR WORK WITHIN STATE OR COUNTY RIGHTS-OF-WAY, SHALL BE ON THE SITE OF WORK AT ALL TIMES.
- IF AT ANY TIME DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED. 3.
- CONTROLINE MEASURES AND OF INTROL. DEPARTIMENT OF PUBLIC WORKS, BUREAU OF ENGINEERING, GEOLOGY AND SOILS CONSTRUCTION DIVISION SHALL BE NOTIFIED PRIOR TO COMMENCING GRADING OPERATIONS. ALL FILLS SHALL BE COMPACTED TO SOR FRELTWE COMPACTION UNLESS OTHERMISE RECOMMENDED BY THE GROTECHNICAL SECTION, CONSTRUCTION DIVISION AND SPECIFIED BY THE PRIVATE REVIEWEE DRAINAGE FROM ALL LOTS SHALL BE CARRIED TO THE IMPROVED STREET GUTTER.
- ALL SLOPES IN PRIVATE PROPERTY ADJOINING STREETS, DRAINAGE CHANNELS, OR OTHER PUBLIC FACILITIES SHALL BE GRADED NOT STEEPER THAN 2:1 FOR CUT AND 6.
- AN APPROVED TEMPORARY DRAINAGE PLAN IS REQUIRED PRIOR TO START OF CONSTRUCTION.

WORK HOURS AND RESTRICTIONS

- NO PHYSICAL WORK WHICH CAUSES NOISE SHALL BEGIN BEFORE B AM UNLESS OTHERWISE DIRECTED BY GAS COMPANY SUPERVISION.
- ALL EQUIPMENT AND DELIVERABLES SHALL BE RECEIVED AFTER 8 AM WITH NO EXCEPTIONS. THE CONTRACTOR WILL COORDINATE ALL SUCH ACTIVITIES AND ASSUMES ALL RESPONSIBILITY FOR THIS ACTIVITY.
- ALL RESPONSIBILITION IN AUTOMIN. PERSONAL VEHICLES AND SERVEC TRUCKS WITH A GVW OF OVER 10,000 LBS ARE NOT PERMITTED ON THE PROPERTY BEFORE 8 AM. THE DRIVER OF THE VEHICLE W REPORT TO THEIR DESIGNATED WORK AREA AND WILL REFRAIN FROM MAKING ANY LOUD NOISE OR CREATING ANY KIND OF DISTURBANCE BEFORE 8 AM. IDLING AT THE FRONT GATE OR PARKING IN THE RESIDENTIAL NEIGHBORHOOD IS PROHIBITED.
- PROVIDE IELD. 5. EVERY EFFORT WILL BE MADE BY THE CONTRACTOR TO ELIMINATE ANY NOISE BEFORE 8 AM WHICH COULD BE DISRUPTIVE TO THE NEIGHBORHOOD. EXAMPLES INCLUDE BUT ARE NOT IMITED TO LOUD MUSIC AND TALKING, BACK UP FOR MONITORING AND POLICING THEIR EMPLOYEES ALCING WITH ANY SUBCONTRACTORS TO ASSURE COMPLIANCE WITH THESE REQUERTMENTS.

STRUCTURAL STEEL:

- MATERIALS UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS, MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
- 1.1. STRUCTURAL STEEL SHAPES, FOR SOLDER PILES: ASTM A572, GRADE 50
- 1.2. STRUCTURAL STEEL PIPES: ASTM A-53 GRADE 3.
- 1.3. MISC STRUCTURAL STEEL, PLATES AND BARS: ASTM A36
- 1.4. HIGH STRENGTH BOLTS, NUTS AND WASHERS: ASTM A325
- 1.5. WELDING ELECTRODES: AWS A5.1 SERIES E70 OR F70

- 1.6. GALVANIZING OF SOLDIER PILES: ASTM A-123 CLASS G 185 COATING (2.25 OUNCES/SF)
- 1.7. STRUCTURAL WIRE ROPE, ZINC COATED: ASTM A-603 CLASS B COATING 2. CONNECTIONS
- 2.1. UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS, ALL SHOP CONNECTIONS SHALL BE WELDED AND ALL FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS DESIGNED AS "BEARING TYPE WITH THREADS IN SHEAR DIVISION (LATE N) CONSISTENT CONSTRUCTIONS OF A VELOCITY PLANE" (A325-N). FABRICATOR MAY SUBSTITUTE EQUIVALENT FIELD WELDED CONNECTIONS SUBJECT TO APPROVAL.
- 2.2. ALL BOLTED CONNECTIONS SHALL BE MADE WITH A MINIMUM OF TWO (2)
- 3. PAINTING

- CONTACT SURFACES OF STEEL TO BE EMBEDDED IN CONCRETE, GROUTED, OR FIELD WELDED SHALL NOT BE PAINTED EXCEPT SOLDER PILES WHICH SHALL BE GALVANIZED.
- 3.2. SURFACES WITHIN TWO INCHES OF FIELD WELDS SHALL BE FREE OF PAINT AND OTHER MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES DURING WELDING.

or cover selow Grade

WOA

PSIG

CONCRETE NOTES:

- MATERIALS UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS, MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
- 1.1. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615. GRADE 60.
- 1.2. UNLESS OTHERWISE NOTED ON THE DRAWINGS, CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL NOT BE LESS THAN THE FOLLOWING:
- 1.2.1. STRUCTURAL MEMBERS, FOUNDATIONS, WALLS, SUSPENDED SLABS AND PRECAST PLANKS: 4000 PSI 1.2.2. LEAN CONCRETE: 2000 PSI
- 1.3. ANCHOR BOLTS AND MISC EMBEDDED STEEL: ASTM A36
- 2. CONSTRUCTION 2.1. MINIMUM CONCRETE PROTECTION FOR REINFORCING STEEL IN CAST-IN-PLACE CONCRETE SHALL BE AT LEAST EQUAL TO THE BAR DIAMETER. BUT NOT LESS THAN THE FOLLOWING:
 - 2.1.1. CONCRETE DEPOSITED AGAINST THE GROUND: 3 INCHES
 - SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH GROUND AFTER REMOVAL OF FORMS: 2.1.2.
 - FOR BARS LARGER THAN #5: 3 INCHES 2.1.2.1.
 - 2.1.2.2. FOR #5 BARS OR SMALLER: 3 INCHES
 - SURFACES IN CONTACT WITH FRESH WATER: 3 INCHES 2.1.2.3.
 - 2.1.2.4. PREFABRICATED CONCRETE PANELS: 3 INCHES
 - 2.1.2.4. PIOL RAINGARED CONTRACT PARELS. J HAVING SHALL BE 40 X BAR DIAMETER MIN. LAPPED SPLICES OF REINFORCING BARS SHALL BE 40 X BAR DIAMETER MIN. LENGTH OF THE OVERLAP MEASURED BETWEEN THE OUTERNOST CROSS WRES OF EACH FABRIC SHEET IS NOT LESS THAN THE CROSS WIRE SPACING PLUS 2 MINUSE INCHES.
 - 2.3. LOCATION OF CONSTRUCTION AND OTHER JOINTS SHALL BE AS SHOWN ON THE DRAWINGS. ADDITIONAL JOINTS AND/OR CHANGES IN JOINT LOCATIONS SHALL BE AS APPROVED BY ARCHITECT/ENGINEER.
 - 2.4. CONSTRUCTION JOINTS SHALL BE PROVIDED WITH KEYS WERE SHOWN, OR THE CONTACT SURFACE SHALL BE ROUGHEDD. SLABS AND BEAMS SHALL HAVE NO HORIZONITAL CONSTRUCTION JOINTS.

SOLDIER PILE NOTES:

- ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE. WHERE CONFLICTS OCCUR, THESE SPECIFICATIONS SHALL PREVAIL.
- 2. THE SOLDIER PILE ANALYSIS WAS COMPLETED USING THE COMPUTER PROGRAM "CT-SHORING" PUBLISHED BY CIVIL TECH.
- 3. REFERENCE MATERIALS: 3.1. "INVESTIGATION REPORT, CABORA WELLS RETAINING WALL, PLAYA DEL REY, LOS ANGELES, CA" BY GEOSYNTEC CONSULTANTS, INC. DATED 03/27/2020
- SOLDIER PILE WALL DESIGN PARAMETERS WERE PROVIDED IN SECTION 6.5 OF THE ABOVE REFERENCED GEOTECHNICAL REPORT.
- LATERAL DISPLACEMENT REFERENCE POINTS SHALL BE ESTABLISHED AND MONITORED BY THE GENERAL CONTRACTOR OR AS REQUIRED BY THE OWNER.
- SOLDIER PILE SYSTEM INSTALLATION SHALL BE CONSISTENT WITH THE DESIGN CRITERIA REQUIREMENTS AND INSTALLATION RESTRICTIONS SPECIFIED HEREIN. 6. 7. SOLDIER PILES SHALL BE ASTM A572 GRADE 50.
- 8. MISC. SUPPORT STEEL SHALL BE A36 (Fy = 36 KSI) MIN.
- 9. CONCRETE MIX SHALL CONSIST OF F' = 4000 PSI MIN.
- 10. LEAN MIX SHALL CONSIST OF 2 SACK MINIMUM SAND SLURRY WITH F' = 200 PSI MIN.
- 11. ALL WELDS TO BE ELECTRIC ARC WITH E70XX ELECTRODES.
- 12. ALTERNATIVE PILES FROM THOSE SHOWN IN THE PLANS MAY BE USED PROVIDED THEY HAVE AN EQUAL OR GREATER SECTION MODULUS AND MOMENT OF INERTIA.
- 13. SOLDIER BEAM WALL PARAMETERS:

1 6/22/2020 SO BL 2 7/7/2023 RG BB

NUMBER

ISSUED BY

	LATERAL EARTH PRESSURES								
LATERAL FORCE	SOIL PROFILE	COEFFICIENT OF LATERAL PRESSURE	PRESSURE (LB/FT ³ /FT DEPTH)						
ACTIVE PRESSURE	1.33∺1∨	-	62						
ACTIVE PRESSURE	1H:1V	-	80						
PASSIVE RESISTANCE	ACTIVE PRESSURE	kp=4.85	530						

- EXCAVATION NOTES:
- EXCAVATION SHOULD BE PERFORMED AT THE LOCATIONS AND TO THE GRADES SHOWN ON THE PLANS 1.
- 2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES INCLUDING POTHOLING TO MAINTAIN DRILL HOLES AWAY FROM SANITARY SEWER LINES. 3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SURVEY CONTROL.

GEOTEXTILE:

- 1. MATERIALS - UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS, MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - 1.1. NONWOVEN GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS CLASS 3 CONSTRUCTION SURVIVABILITY IN ACCORDANCE WITH AASHTO M288.
- 1.2. NONWOVEN GEOTEXTILE PRODUCTS SHALL BE MIRAFI 140N OR APPROVED FOUIVALENT.

DRAINAGE PIPE:

SYMBOLS:

8004

DESIGNED: B. LANTHIER 04/24/2020

CHECKED: B. LANTHIER 04/24/2020

DRAMN: R. GONZALEZ 04/24/2020

(SeCelBes

Galifornia Goastal²Commission

- SECTION NUMBER

DRAWING NUMBER

WHERE SECTION IS SHOWN

- MATERIALS UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS, MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: 1.1. DRAINAGE COLLECTION PIPE SHALL BE A 4" DIAMETER HDPE PIPE WITH A MINIMUM PIPE STIFFNESS OF 22 PSI PER ASTM D2412.
- 1.2. THE DRAINAGE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM D1248 FOR HDPE PIPE AND FITTINGS.
- 1.3. IF PERFORATIONS ARE SPECIFIED ON THE DESIGN DRAWINGS, THEN THE 3-HOLE PERFORATION PATTERN SHALL BE USED.

8004

TYPICAL SECTION

PDR STORAGE FIELD

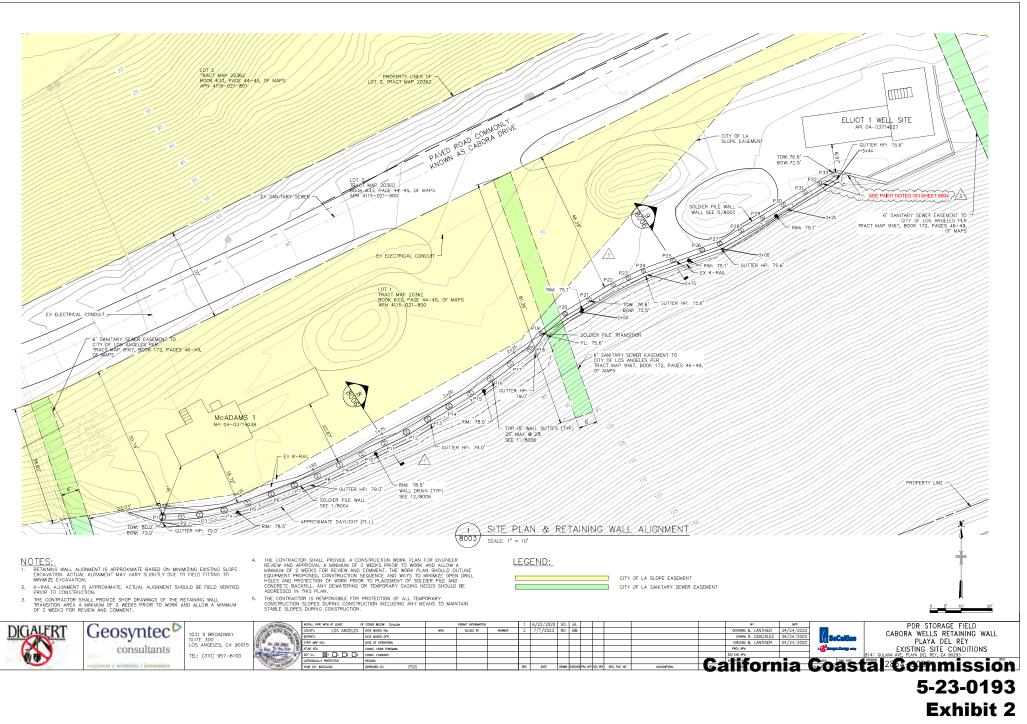
CABORA WELLS RETAINING WALL

PLAYA DEL REY

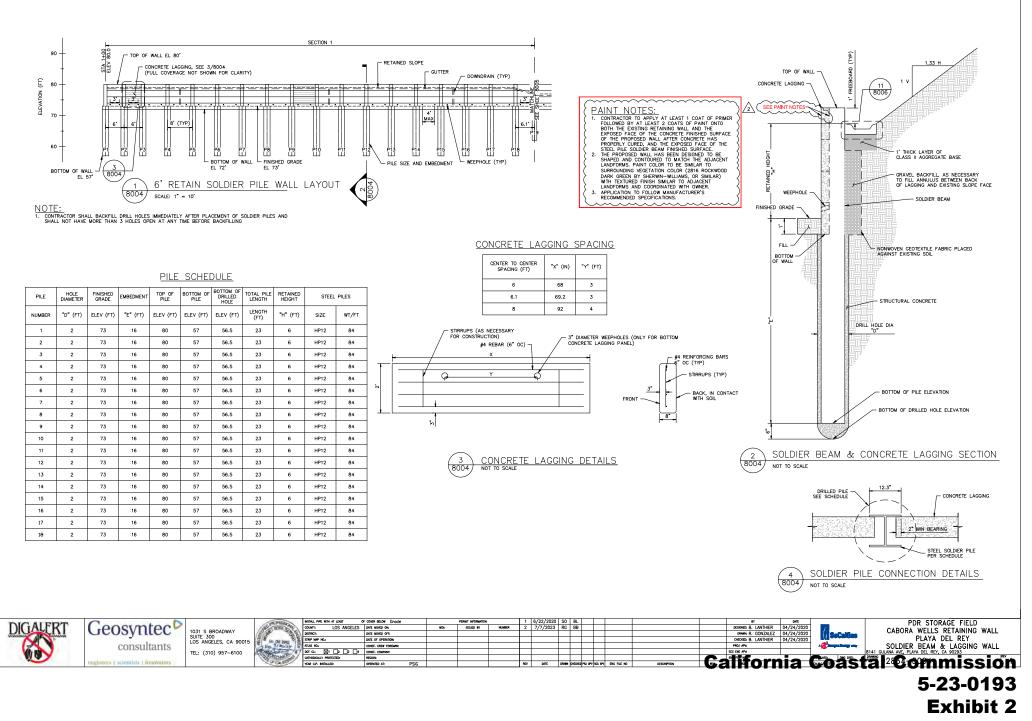
GENERAL NOTES

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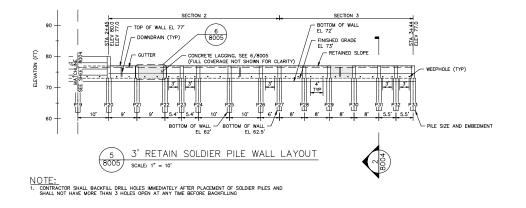
NOT TO SCALE



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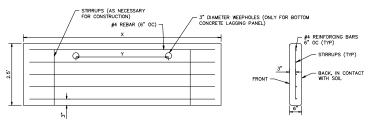


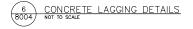
PILE SCHEDULE

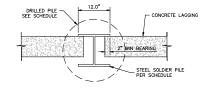
PILE	HOLE DIAMETER	FINISHED GRADE	EMBEDMENT	TOP OF PILE	BOTTOM OF PILE	BOTTOM OF DRILLED HOLE	TOTAL PILE LENGTH	RETAINED HEIGHT	STEEL	PILES
NUMBER	"D" (FT)	ELEV (FT)	"E" (FT)	ELEV (FT)	ELEV (FT)	ELEV (FT)	LENGTH (FT)	"H" (FT)	SIZE	WT/FT
19	1.5	73	11	80	62	61.5	18	3	HP12	53
20	1.5	73	11	80	62	61.5	18	3	HP12	53
21	1.5	73	11	77	62	61.5	15	3	HP12	53
22	1.5	73	11	77	62	61.5	15	3	HP12	53
23	1.5	73	11	77	62	61.5	15	3	HP12	53
24	1.5	73	11	77	62	61.5	15	3	HP12	53
25	1.5	73	11	77	62	61.5	15	3	HP12	53
26	1.5	73	11	77	62	61.5	15	3	HP12	53
27	1.5	73	10.5	77	62.5	62	14.5	3	HP12	53
28	1.5	73	10.5	77	62.5	62	14.5	3	HP12	53
29	1.5	73	10.5	77	62.5	62	14.5	3	HP12	53
30	1.5	73	10.5	77	62.5	62	14.5	3	HP12	53
31	1.5	73	10.5	77	62.5	62	14.5	3	HP12	53
32	1.5	73	10.5	77	62.5	62	14.5	3	HP12	53
33	1.5	73	10.5	77	62.5	62	14.5	3	HP12	53

CONCRETE LAGGING SPACING

CENTER TO CENTER SPACING (FT)	"X" (IN)	"Y" (FT)		
5.4	61	3		
5.5	62	3		
6	68	3		
8	92	4		
9	104	4		
10	116	4		





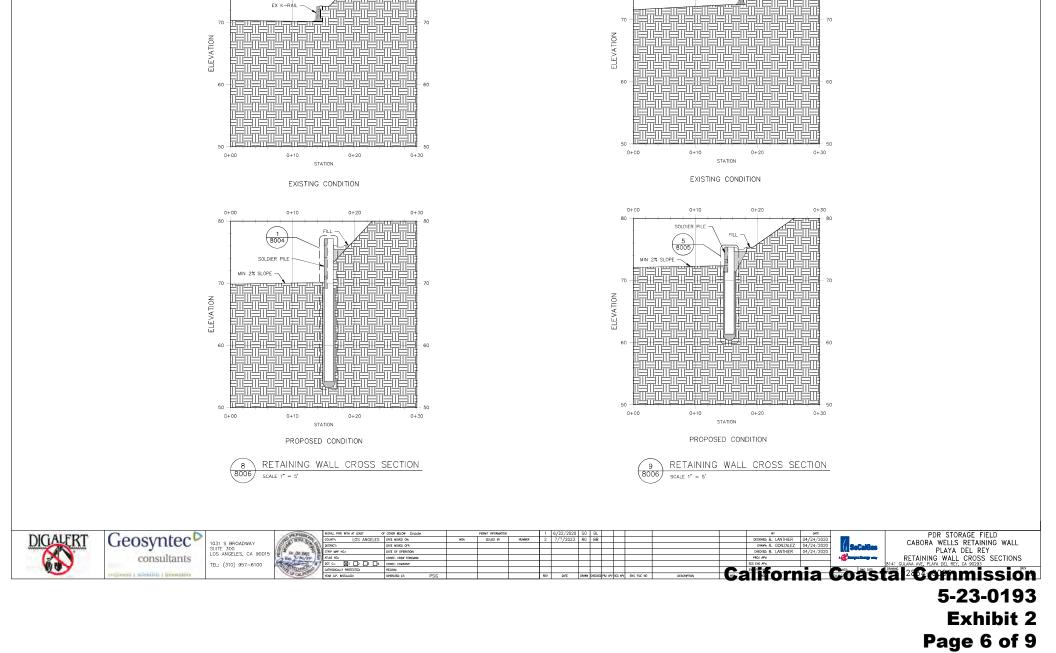


7 SOLDIER PILE CONNECTION DETAILS 8005 NOT TO SCALE

DICALDOT	0	1	CONTRACTOR OF	INSTALL PIPE WITH AT LEAST OF	or cover selow Grade	· · · ·	PERMIT INFORMATION		1 6/22/201	20 SO	BL				81	DATE		PDR STORAGE FIELD
DIGALERT	-eosymter		State and and	COUNTY: LOS ANGELES	DATE MOVED ON:	WOA	ISSUED BY	NJMBER	2 7/7/202	23 RG	88				DESIGNED: B LANTHIER	04/24/2020	1	CABORA WELLS RETAINING WALL
DICECTAT	UCOSYILLEC	1031 S BROADWAY SUITE 300	6/2 20	A DISTRICT:	DATE MOVED OFT:			, <u> </u>	(DRAWN: R. GONZALEZ	04/24/2020	Califier '	
		LOS ANGELES, CA 90015	A Han Die same 20	STRP MAP NO.:	DATE OF OPERATION:				(CHEORED: B. LANTHIER	04/24/2020	Ki commente i	PLAYA DEL REY
	consultants	LOS ANGELES, CA SOUIS	1 Em 7/80/14	ATLAS NO.:	CONST. CREW FOREMANE	, 			(-			PROJ APV:		A Comparison of the second sec	SOLDIER BEAM & LAGGING WALL (CONT)
	constituints	TEL: (310) 957-6100	Chexicher-1/4	/ worau 🛛 🖓 🖓 🖓 🖓	CONST. COMPANY:				(SCO ENG APM		- ,	8141 GULANA AVE, PLAYA DEL REY, CA 90293
			PROPERTY ST	CATHODICALLY PROTECTED:	REGION:				(-			ASS_ DOG DIST_	
\sim	engineers scientists innovators	1	CARO	YEAR C.P. INSTALLED	OPERATED AT: PSIG	· — – – – –			REV DATE	CRAIN -	CHECKED PRJ APV 900	APV ENG FILE NO	DESCRIPTION	100				al ² Commission
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0+10

EX SURFACE

0+20

0+30

80

0+00

80

70

ELEVATION

0+00

ELEVATION

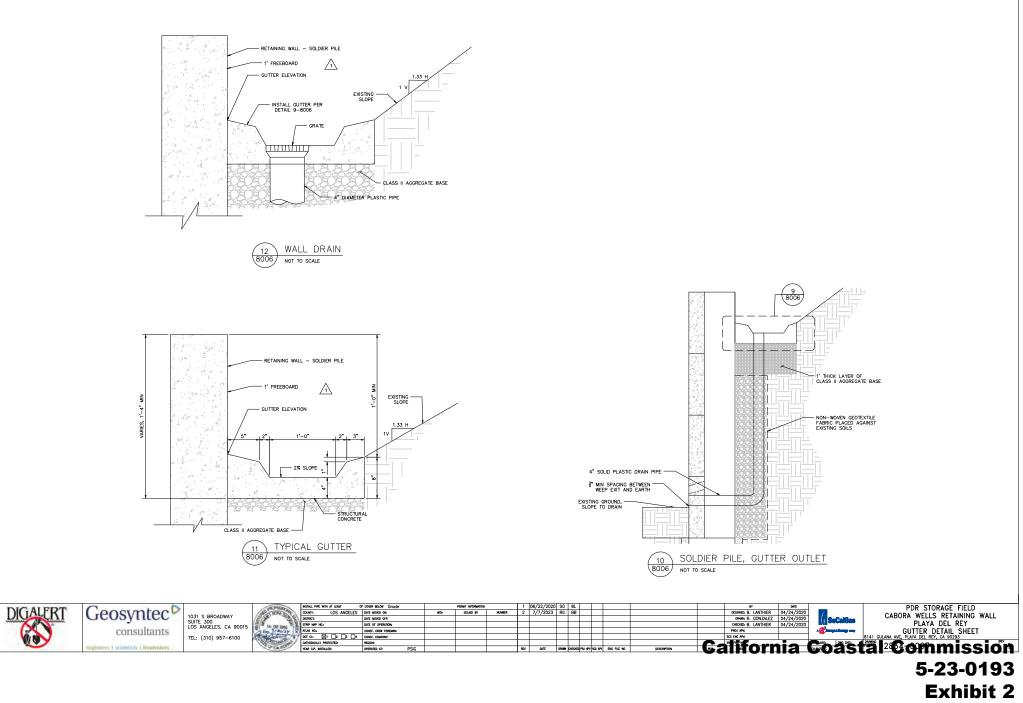
0+10

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EX SURFACE

0+30

60



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City of Los Angeles Department of Building and Safety

Versino

Grading Pre-Inspection Report

Council District: 11 Perm	nit Application: 20030-10000-02210
Work Description:	
GPI & POSTING FOR TOE OF SLO WALLS & DRAINAGE	OPE/BLUFF REPAIR WITH NEW RETAINING
TALLO & DIVATIVAGE	
Inspector/Telephone: KIRK LINKL	ATER, (310) 914-3937
Inspection District: WLA	
Inspection Date: 05/21/2020	
Property Posted: Yes Posting Date: Tract: TR 20362	: 05/21/2020 Posting Fees Paid? Yes
	05/21/2020 Posting Fees Paid? Yes ARB: County Ref No: M B 633-44/45
Tract: TR 20362	
Tract: TR 20362 Block: Lot(s): LT 1 Approved Graded Lot: No Fill Over 100 Feet: No	ARB: County Ref No: M B 633-44/45 Bearing Value: Duttress Fill: No
Tract: TR 20362 Block: Lot(s): LT 1 Approved Graded Lot: No	ARB: County Ref No: M B 633-44/45 Bearing Value: Duttress Fill: No Natural Soil Classification 1804-2: PER REPORT
Tract: TR 20362 Block: Lot(s): LT 1 Approved Graded Lot: No Fill Over 100 Feet: No	ARB: County Ref No: M B 633-44/45 Bearing Value: Duttress Fill: No
Tract: TR 20362 Block: Lot(s): LT 1 Approved Graded Lot: No Till over 100 Feet: No Slope of Surface: Ascending Fill: degrees Height: ft in	ARB: County Ref No: M B 633-44/45 Bearing Value: Duttress Till: No Natural Soil Classification 1804.2: PER REPORT Cut: degrees Height: ft in
Tract: TR 20362 Block: Lot(s): LT 1 Approved Graded Lot: No Fill Over 100 Feet: No	ARB: County Ref No: M B 633-44/45 Bearing Value: Duttress Fill: No Natural Soil Classification 1804-2: PER REPORT
Tract: TR 20362 Block: Lot(s): LT 1 Approved Graded Lot: No Till over 100 Feet: No Slope of Surface: Asconding Fill: degrees Height: 80th Natural: 32+1 degrees Height: 80th	ARB: County Ref No: M B 633-44/45 Bearing Value: Duttress Till: No Natural Soil Classification 1804.2: PER REPORT Cut: degrees Height: ft in
Tract: TR 20362 Block: Lot(s): LT 1 Approved Graded Lot: No Fill Over 100 Feet: No Slope of Surface: Ascondig Fill: degrees Height: ft in Natural: 33-11 degrees Height: 90ft in Sewer Available: N/A	ARB: County Ref No: M B 633-44/45 Bearing Value: Duttress Till: No Natural Soil Classification 1804.2: PER REPORT Cut: degrees Height: ft in Silde Area: No PSDS Sized Per Code: N/A Roof Guttes: No
Tract: TR 20362 Block: Lot(s): LT 1 Approved Graded Lot: No Till Over 100 Feet: No Slope of Surface: Ascending Fill: degrees Height: ft in Natural: 33:41 degrees Height:	ARB: County Ref No: M B 633-44/45 Bearing Value: Duttress Till: No Natural Soli Classification 1804.2: PER REPORT Cut: degrees Height: ft in Silde Area: No PSDS Sized Per Code: N/A

GRADING APPROVAL TO ISSUE PERMIT(S)

- OK TO ISSUE. SEE BELOW FOR COMMENTS.
- X DO NOT ISSUE UNTIL BELOW REQUIREMENTS HAVE BEEN SATISFIED.

Page 1 of 3

- X 1. A grading permit is required for excavation and backfill . X 2. A retaining wall permit is required . X 3. OSHA permit required for vertical cuts 5 feet or over. 4. All footings shall be founded in undisturbed natural soil per Code Design for expansive soil or submit a soils report to the grading division per information bulletin P/BC 2008-116 and 91.1805.8. 6. In the event excavations reveal unfavorable conditions, the services of a soils engineer and/or geologist may be required. X 7. Geological and Soils report(s) are required. Submit three copies (1 original and 2 copies), with appropriate fees, to the Grading Section for review and approval. X 8. Incorporate all recommendations of the approved Geological and Soils report(s) and Department letters dated 01/07/2020 into the plans. Geologist and Soils Engineer to sign plan 9. Site is subject to mudflow. Comply with provisions of Section 91.7014.3. Geological and soils report required. 10. Duildings shall be located clear of the toe of all slopes which exceed a gradient of 3 horizontal to 1 vertical as per Section 91.1805.3.1. 11. Footings shall be set back from the descending slope surface exceeding 3 horizontal to 1 vertical as per Section 91.1805.3.7. 12. Swimming pools and spas shall be set back from descending and ascending slopes as per Section 91.1805.3.3 13. Department approval is required for construction of . on or over slopes steeper than 2 horizontal to 1 X 14. Provide complete details of engineered temporary shoring or slot cutting procedures on plans. Call for inspection before excavation begins. х 15. All concentrated drainage, including roof water, shall be conducted, via gravity, to the street or an approved location at a 2% minimum. Drainage to be shown on the plans. X 16. A Registered Deputy Inspector is required. X 17. All fill or backfill shall be compacted by mechanical means to a minimum 90% relative compaction as determined by ASTM method D-1557. Subdrains shall be provided where required by Code. X 18. Specify on the plans: "The soils engineer is to approve the key or bottom and leave a certificate on the site for the grading inspector. The grading inspector is to be notified before any grading begins and, for bottom inspection, before fill is placed. Fill may not be placed without approval of the grading inspector." X 19. Existing non-conforming slopes shall be cut back at 2:1 (26 degrees) or retained. All concentrated drainage, including roof water, shall be conducted, via gravity, to the street or an approved location at a 2% minimum. Drainage to be shown on the plans. X 20. All cut or fill slopes shall be no steeper the 2:1 (26 degrees). X 21. Stake and flag the property lines in accordance with a licensed survey map. .
- 22. Approval required by the Department for . 23. Approval required by the Department of Public Works, Urban Forestry Division, for native tree protected ORD. 177,040. Phone # (213) 847-3077
- 24. This is a preliminary pre-inspection only base on limited information. When complete plans (and possibly calculations and/or required reports) are submitted for a permit, a new pre-inspection and fee will be required.

Page 2 of 3

PDR STORAGE FIELD CABORA WELLS RETAINING WALL DIGALER INSTALL PIPE WITH AT LEA OVER BELOW Grade Geosyntec² LOS ANGELES DATE NOVED ON NUMBER 2 7/7/2023 RG BB ISSUED BY DESIGN 1031 S BROADWAY SUITE 300 LOS ANGELES, CA 90015 DISTRICT: DATE NOVED OFT: DRAWN: CHECKED: PROJ APIC (SoCalGas PLAYA DEL REY STRP MMP NO.: DATE OF OPENING ATUGS HO.: CONST. CHEW FOR DOT OL: 21 DOT OL: 21 DATE OF OPERATION He DE 200 GRADING PREINSPECTION REPORT consultants TEL: (310) 957-6100 California Coastal²Commission rs i scient VER CO NETHIE OFFENTED AT

** Additional requirements: THIS GPI SHALL BE A PART OF THE APPROVED PLANS, CALL FOR INITIAL GRADING INSPECTION PRIOR TO THE COMMENCEMENT OF WORK.

Construction of new occupied buildings or major additions to buildings on sites located in any of the Seismic Hazard Zones (liquefaction, Landslide or Alquist-Priolo Fault Zone) will require a geology and/or soil enginee report, For questions call (21) 482-0480.

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BUILDING AND BAFETY COMMISSIONERS VAN AMBATIELOS ANDER NUMBER JACOBER NUMBER		BUILDING AND SAFETY IN KOTH FOURIES STREET VOTWOODED A STREET OF AND A STREET OSAMA VOLNAM, P.E. SCHOOL WOWDOT
JOSELYN GEAGA-ROSENTHAL GEORGE HOVAGUMAN ELVINW, MOON	ERIC GARGETTI MARIOR	JOHN WEIGHT EXECUTIVE OFFICIA

GEOLOGY AND SOILS REPORT APPROVAL LETTER

September 15, 2020 Southern California Gas Compa SSS W. 5th Street Los Angeles. CA 90013	ry.	SOIL	# 111464-02 SGBOLOGY FILE - 2 Frompt
29AGT: 20362 LOT(25 LT 1 LOCATION: 8141 5.	Gulana Avenue		
CURRENT REFERENCE REPORT/LETTER(S) Addaptedum Report	REPORT No. SCOTIA	DATE OF DOCUMENT 08/26/2020	PREPARED BY Georyntec Consultants
PREVIOUS REFERENCE REPORT/LETTER(S) Dept. Review Letter Addondum Report Dept. Review Letter Geology/Soils Report	REPORT No. 111464-01 SC0766 111464 SC0766	DATE OF <u>DOCUMENT</u> 07/15/2020 06/11/2020 01/07/2020 12/06/2019	PREPARED BY LADBS Geosyntec Consultants LADBS Geosyntec Consultants

The Goaling Davision of the Deparement of Richling and Endly has reviewed for information approximation of the properties resonantiation of the properties resonantiation of the analysis of the properties resonantiation of the second and well is hazard at the tor of a blant does not exciting and blanc approximation of the second and the second approximation of the second and the second approximation of the second approx

The each materials at the softwarface exploration locations consist of older samd done and money deposits, which are underlain by San Pedro Formation bedrock. Weathered terrace deposits are indicated to be the main geologic formation exposed on the face of the slope with older due deposits at the top.

The site is located in a designated seismically induced landslide hazard zone as shown on the "Seismic located (note: Source) and the state of California throater, the propulse contraction is carrently and the (note 2000 Mar.)

The referenced reports are acceptable, provided the following conditions are complied with during site development:

AN EQUAL EMPLOYMENT OPPORTUNITY - APPIRATIVE ACTION EMPLOYER LADES 5.5 (Am 07010006

Page 2 8141 S. Oulana Avenue

(Note: Numbers in parenthesis () refer to applicable sections of the 2020 City of LA Building Code. P/BC numbers refer the applicable information Bulletin. Information Bulletins can be accessed on the internet at LADBS.ORG.)

- The geologist and soils engineer shall review and approve the detailed plans prior to issuance of any permits. This approval shall be by signature on the plans that clearly indicates the geologist and units suginese have reviewed the plans propeed by the design engineer; and, that the plans include the recommendations contained in their report (7006.1).
- All recommendations of the reports that are in addition to or more restrictive than the condition contained horein shall be incorporated into the plant. 2.
- A copy of the subject and appropriate referenced reports and this approval letter shall be attached to the District Office and field set of plans (7000.1). Submit one copy of the above reports to the Public Publi 3.
- A grading permit shall be obtained for all structural fill and retaining wall backfill (106.1.2).
- All man-made fill shall be compacted to a minimum 90 percent of the maximum dry density of the fill material per the latest version of AS1M U 1537. Where contensions soil having less than 15 percent fior than 8006 millionstern i und for fill is that the compacted for a minimum of 95 percent relative compaction based on maximum dry density. Facement of gravel in lieu of compaced fills is out all-world "companying with LAMS-Section 91.2011.x.
- Existing uncertified fill shall not be used for support of footings, concrete slabs or new fill (1809.2, 2011.7).
- Drainage in coefformance with the provisions of the Code shall be maintained during and subsequent to construction (7013.12). 7.
- Grading shall be schooled for completion prior to the start of the raisy sensors, or detailed temporary erosion control plans shall be filled in a manner satisfactory to the Grading Division of the Department and the Department of Public Wests, Barness of Engineering, B-Permit Section, for any grading with in access of 200 cobic yards (7007.1).

1625 Sawtells Blvd., 3rd Floot, West 5,6 (310) 575-8388

- The applicant is advised that the approval of this report does not waive the requirements for escavations contained in the General Safety Orders of the California Department of Industrial Relations (3301.1).
- The soils engineer shall review and approve the shoring plans prior to issuance of the permit (3307.3.2).
- Prior to the issuance of the permits, the soils engineer and/or the structural designer shall evaluate the succharge loads used in the report calculations for the design of the retaining while and shoring. If the surcharge loads used in the exclusions do not encodents to the attain surcharge loads, the roll engineer shall submit a supplementary report with revised recommendations to the Department for ensurementary and the supplementary report with revised recommendations to the Department for
- Shoring shall be designed for the lateral earth pressures specified in the section titled "Soil Lateral Load for Retaining Walk" on page 11 of the 00/26/2020 report, all surcharge loads shall be included in the design. Total lateral load on shoring piles shall be determined by multiplying the recommended EFP by the pile spacing. 12.

Page 3 8141 S. Gulana Avenue

- 13. A shoring monitoring program shall be implemented to the satisfaction of the soils engineer All foundations shall derive entire support from native undisturbed soils, as recommended and approved by the geologist and soils engineer by impection.
- Pile caisson and/or isolated foundation ties are required by LAMC Sections 91.1809.13 and/or 91.1810.3.13. Exceptions and modification to this requirement are provided in Information Bulterin PIDE 2020-039.
- When water is present in delied pile holes, the concrete shall be tremied from the bottom ensure minimum segregation of the mix and negligible turbulence of the water (1808.8.3).
- 12 The Croat magnitude analysis for the group effects on Ramol Molecia shares the attention of the attent
- 18. The available straight of the strain and a first from the strain and s
- 19. Retaining walls up to 6 feet in height shall be designed for the lateral earth pressures specified in the sortion titled "Goill assuel 1 and the Bratising Walls" on page 11 of the 08/26/2020 separt. All servicing to be shall be included into the design.
- 20. The retaining wall shall be provided with a minimum freeboard of one foot, as recommended The recommended equivalent fluid peasaes (EFP) for the proposed retaining wall shall apply from the top of the freeboard to the bottom of the wall footing.
- All retaining walls shall be provided with a standard surface backdrain system and all drainage shall be conducted in a non-crosive device to the street in an acceptable manner (7013.11).
- All entuining walls shall be provided with a subdatin system to prevent possible behavior, for the same of any pennic, the retaining wall subdatin system recommended in the soils requires table the incompared into the foundation plan which shall be reviewed and approved by the soils engineer of record (1805.4). 23
- Installation of the subdrain system shall be inspected and approved by the soils engineer of record and the City grading/building inspector (108.9).
- 25.
- Prefabricated drainage composites (Miradesin, Geotextiles) may be only used in addition to traditionally accepted methods of draining retained earth. 26
- All concentrated drainage shall be conducted in an approved device and disposed of in a manner approved by the LADBS (7013.10).

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- [27] Any recommunications prepared by the parkegist matrix the wolk support for correction of geological barrook found during grading that is structured to the Gradian Division of the Heightment in support plot to its at the GeV (1995), 2008(3)
- 28. The geologies and performance dual impact all eccentrices to determine that certain anticipated in the report tax base encountered and its provide recommendation for the correction of taxanty-found during grading (7588) 1785.6 (2015).
- 39 All discum pld er unions defiling and extendition shift by performed order the amounteen and append af dis geologies and unit exploses. The geologies and additate the decremental livities plds or extensor perspective into computer essent under nativelli in a written field memoration. (1983):53, 1062-12
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- Proce to economical an initial importion dial he called with the LADHS Expector. Through the minical important, the sequence of construction: aboring pile installation, protection floers, and mini and traffic control will be, whithdull (00.9 1). -11 B
- 32 total lation of during and/or pile exampliants shall be performed under the inspection and approval or discussion segment and deputy grading inspectors (1785-6, 1705-8).
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5-23-0193 Exhibit 2

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	Attachment G -	- Cabora Wells Retaining Wall Project Rendering / Photo Log
Client: Southern California	a Gas Company	Project: Proposed Retaining Wall
Site Name: Playa del Rey I	Facility	Site Location: 8141 Gulana Ave, Playa del Rey, CA 90293
Rendering 1 Direction: West-Southwest Comments: Rendering of proposed retaining wall. The wall will be painted to blend with the background vegetation and existing painted pipes and equipment.		
Rendering 2 Direction: East-Southeast Comments: Rendering of proposed retaining wall. The wall will be painted to blend with the background vegetation and existing painted pipes and equipment.		



7.0 PROPOSED AVOIDANCE AND MINIMIZATION MEASURES

As discussed, the Project site is located in previously-graded Bare Ground, previously-developed, and existing non-native habitats. All appropriate BMPs should be used during construction. The list below includes the known or potential biological constraints for the Project:

- Adjacent Special-Status Habitats
- Bird Species Protected by the MBTA
- Western Burrowing Owl Habitat
- Adjacent Raptor Nesting Habitat

7.1 Adjacent Special-Status Habitats

There are coastal brackish marsh/wetlands located adjacent to the Project site within the Ballona Wetlands. As discussed above, this area will not be directly impacted by the Project. The following avoidance and minimization measures are proposed to minimize potential impacts.

Avoidance and Minimization Measure 1

During construction within 100 feet of any special status habitat, a biological monitor will be present. The monitor will identify potential special status species in the area and enforce the use of BMPs. If special status species are identified within the vicinity of construction, construction will be halted until the wildlife has left the vicinity.

Avoidance and Minimization Measure 2

Appropriate construction BMPs must be used during construction to ensure avoidance of any indirect temporary impacts to adjacent special status habitats. BMPs may include but are not limited to:

- The owner or contractor shall keep the construction area sufficiently dampened to control dust caused by grading and hauling, and at all times provide reasonable control of dust caused by wind.
- All loads shall be secured by trimming, watering or other appropriate means to prevent spillage and dust.
- All materials transported off-site shall be either sufficiently watered or securely covered to prevent excessive amount of dust.
- All clearing, grading, earth moving, or excavation activities shall be discontinued during periods of high winds (i.e., greater than 15 mph), if needed, to prevent excessive amounts of dust.



- General contractors shall maintain and operate construction equipment so as to minimize exhaust emissions.
- Construction and demolition activities shall be scheduled so as to avoid operating several pieces of equipment simultaneously, which causes high noise levels.
- The project contractor shall use power construction equipment with state-of-the-art noise shielding and muffling devices.
- All waste shall be disposed of properly. Use appropriately labeled recycling bins to recycle construction materials including solvents, water-based paints, vehicle fluids, broken asphalt and concrete; wood, and vegetation. Non-recyclable materials/wastes shall be taken to an appropriate landfill. Toxic wastes shall be discarded at a licensed regulated disposal site.
- Leaks, drips and spills shall be cleaned up immediately to prevent contaminated soil on paved surfaces that can be washed away into the storm drains.
- Pavement shall not be hosed down at material spills. Dry cleanup methods shall be used whenever possible.
- Dumpsters shall be covered and maintained. Place uncovered dumpsters under a roof or cover with tarps or plastic sheeting.
- Excavation and grading activities shall be scheduled during dry weather periods.
- Appropriate erosion control and drainage devices shall be employed to ensure runoff will not impact adjacent habitats.
- 7.2 Bird Species Protected by the MBTA

There is suitable nesting habitat for a number of common and special-status birds protected by the MBTA adjacent to the site. As discussed, the MBTA prohibits the taking of migratory birds.

Avoidance and Minimization Measure 3

Construction should be conducted between September 1 and January 31 avoiding the nesting bird season, if feasible. Construction during this period would not require a pre-disturbance nesting bird survey and would prevent impacts to nesting birds or unfledged young. If construction activity will occur during the typical avian nesting season (February 1-August 31), a pre-disturbance survey shall be performed to determine if active nests are present within or up to 500 feet away from Project disturbance areas. The survey shall be conducted by a qualified Biologist no more than one weeks prior to the onset of construction activities. If active nests are found on the site or adjacent to the site, disturbance or removal of the nest shall be avoided until the young have fledged and the nest is no longer active. Extensive buffers, such as those recommended for nesting raptors, are not necessary for nesting avian species protected solely by the MBTA. However, depending on the species, site conditions, and the proposed construction activities near the active nest, a buffer may be prescribed and work may be allowed to continue, as determined by the Biologist.

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7.3 Western Burrowing Owl

Although burrowing owls were not observed during the field surveys, the Project site contains marginally suitable habitat for burrowing owl in areas within small mammal burrows that occur immediately adjacent to the southwest side of the Project area in Disturbed Ruderal/Non-Native Grassland habitat and along the edges of the existing concrete pads where mammal burrows have a high potential to occur. The following avoidance and minimization measure will minimize potential impacts to this species.

Avoidance and Minimization Measure 4

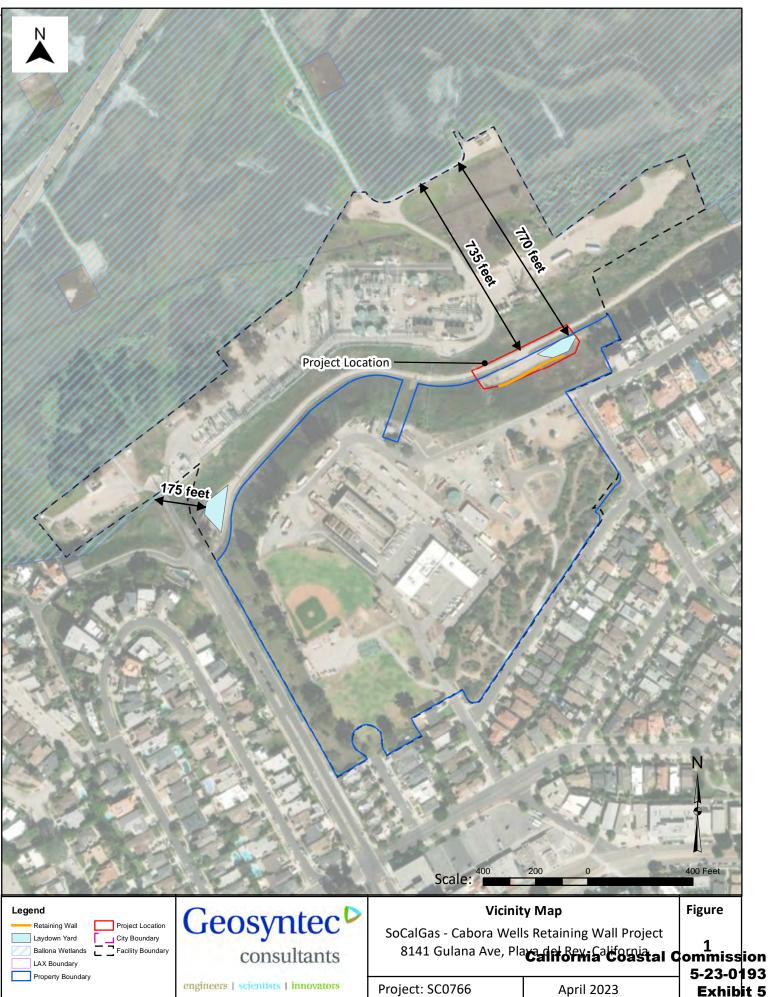
No more than 30 days prior to the onset of construction-related activities, a burrowing owl survey may be conducted to determine the presence or absence of the species. Burrowing owls can be present during all times of the year in California, so this survey shall be performed regardless of the time construction-related activities occur. If active owl burrows are located during the pre-activity survey, a 250-foot buffer zone may be established around each burrow with an active nest until the young have fledged and are able to exit the burrow. Work may be allowed to continue with adaptive measures in place if determined by the Biologist to be appropriate, such as shelter-in-place hay bale placement or biological monitoring during work activities.

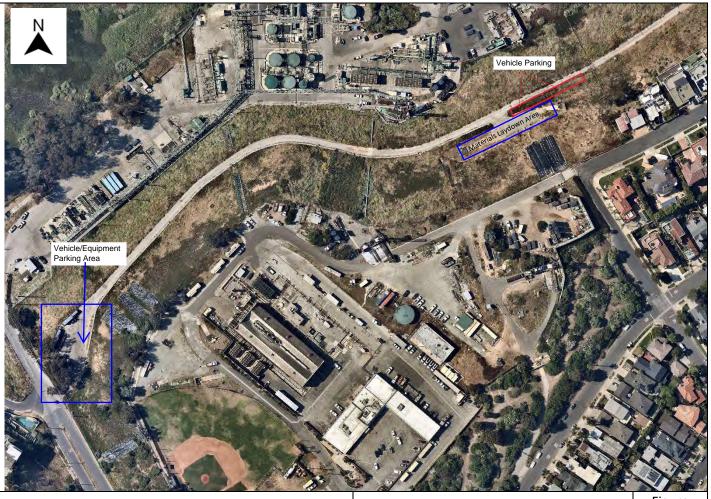
7.4 Adjacent Raptor Nesting Habitat

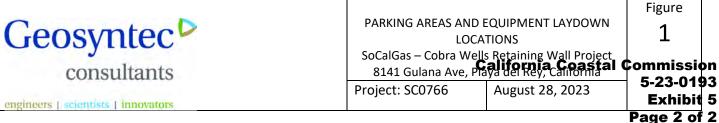
There is potential raptor nesting habitat in the form of eucalyptus trees located adjacent to the Project site approximately 120 feet to the east and 300 feet to the north. As discussed above, this area will not be directly impacted by the Project. The following avoidance and minimization measure is proposed to minimize indirect temporary impacts.

Avoidance and Minimization Measure 5

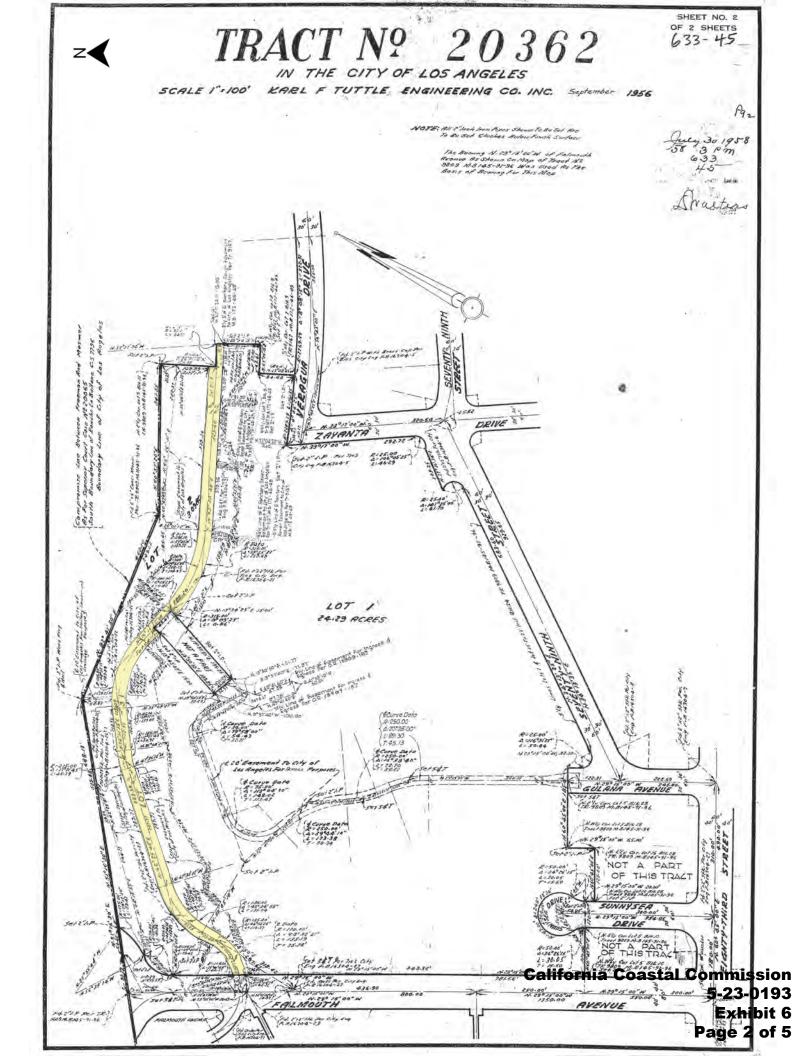
If Project construction activities are initiated during the raptor nesting season, (February 1 to August 31), a nesting raptor survey shall be conducted. Seven days prior to the onset of construction activities, a qualified Biologist shall survey within the limits of the Project disturbance area for the presence of any active raptor nests (common or special status). If no active nests are found, no further avoidance or minimization measures would be required. If nesting activity is present, the active site shall be protected until nesting activity has ended to ensure compliance with Section 3503.5 of the CDFW Code. To protect any nest site, the following restrictions on construction are recommended between February 1 and August 31 (or until nests are no longer active, as determined by a qualified Biologist): (1) Construction limits should be established a minimum of 300 feet in any direction from any occupied nest and (2) access and surveying shall be restricted within 200 feet of any occupied nest. Any encroachment, except for vehicular traffic on existing roads, into the 300- and/or 200-foot buffer area(s) around the known nest shall only be allowed if a qualified Biologist determines that the proposed activity shall not disturb the nest occupants.

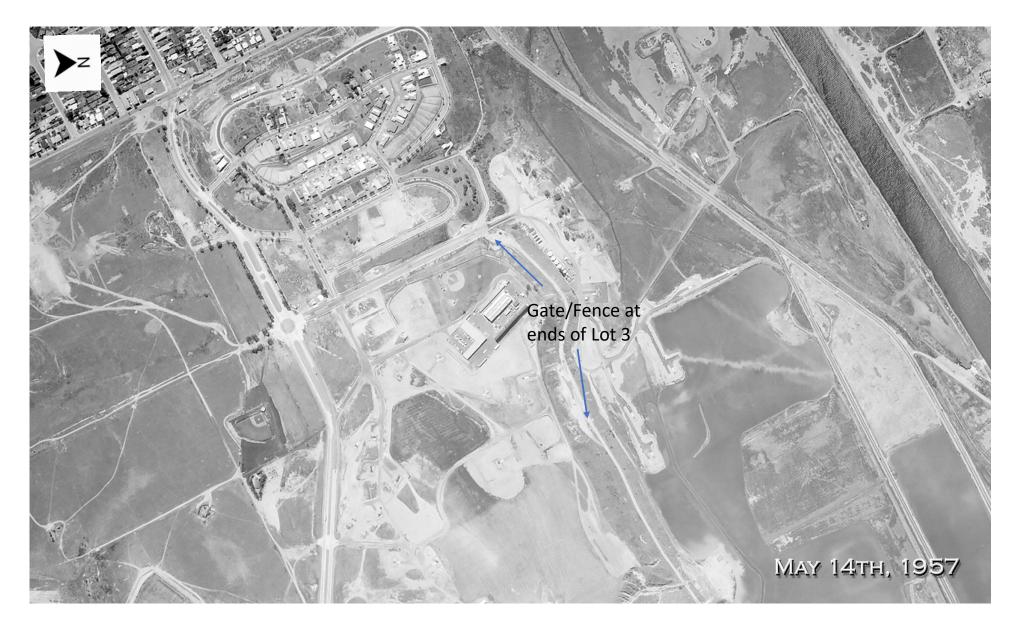




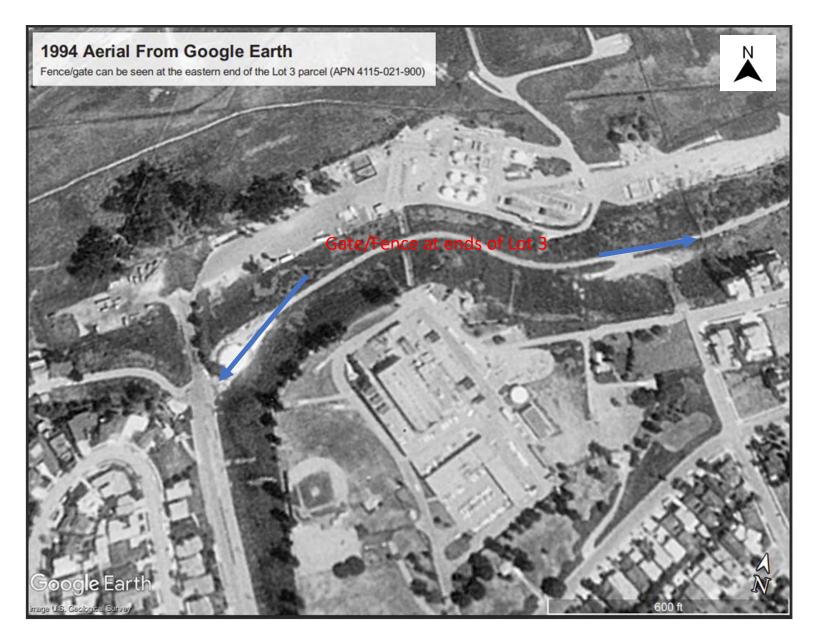


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California Coastal Commission 5-23-0193 Exhibit 6 Page 3 of 5



California Coastal Commission 5-23-0193 Exhibit 6 Page 4 of 5

