

R.C.E. NO. 63344

EXPIRES: 06-30-10

VICINITY MAP

BEYOND ENGINEERING

GRADING PLAN

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE WORK TO BE DONE ACCORDING TO THESE PLANS, SDG&E SPECIFICATIONS, STANDARD SPECIFICATIONS AND THE SAN DIEGO REGIONAL STANDARD DRAWINGS, STATE OF CALIFORNIA. DEPARTMENT OF TRANSPORTATION, AND WATER AGENCY STANDARDS.

STANDARD DRAWINGS

SAN DIEGO REGIONAL STANDARD DRAWINGS, DOCUMENT NO. AEC1231062, FILED DECEMBER 31, 2006. STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS, DATED MAY 2006. 3. WATER AGENCY STANDARDS (SDWAS). SEPTEMBER 28, 2009.

STANDARD SPECIFICATIONS

- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2006 EDITION) INCLUDING THE 2006 REGIONAL AND 2006 CITY OF SAN DIEGO SUPPLEMENTAL AMENDMENTS DOC. AEC1231062, FILED DECEMBER
- 2. STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DOCUMENT NO. AEC0925062, FILED SEPTEMBER 25, 2006.
- 3. WATER AGENCY STANDARD SPECIFICATIONS (SDWAS), SEPTEMBER 28, 2009

CONTRACTOR'S NOTE

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

EARTHWORK QUANTITIES

1,086,000 CY 1,229,000 CY FILL

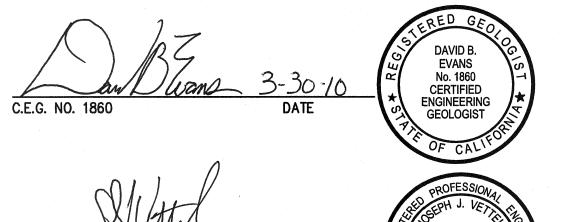
NOTE: QUANTITIES NOT ADJUSTED FOR BULK OR SHRINK. TOTALS DO NOT INCLUDE REMEDIAL EARTHWORK, OVEREXCAVATION OR IMPORT SOILS FROM SUBSTATION ACCESS ROAD. EARTHWORK VOLUMES SHOWN HEREON ARE APPROXIMATE. ACTUAL VOLUMES ARE DEPENDENT UPON ACTUAL PERCENT OF BULK AND SHRINKING, QUANTITY OF REMEDIAL EXCAVATION, QUANTITY OF OVEREXCAVATION AND EXISTING SURFACE TOPOGRAPHY. EARTHWORK SHALL BE QUANTIFIED IN THE FIELD DURING GRADING OPERATIONS.

ARREVIATIONS

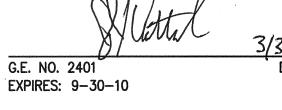
<u>ARRI</u>	REVIATIONS			
APPRO)	K APPROXIMATE	MSE	MECHANICALLY STABILIZED EARTH	
AC	ASPHALT CONCRETE	OC	ON CENTER	
BW	BOTTOM OF WALL	OD	OUTSIDE DIAMETER	
CB	CATCH BASIN	OH	OVERHEAD	
CONC	CONCRETE	POB	POINT OF BEGINNING	
CL	CENTER LINE	PVC		
CP	CENTER POINT	PVT	PRIVATE	
DIA	DIAMETER	PCC	PORTLAND CEMENT CONCRETE	
D.I.	DUCTILE IRON	R/W	RIGHT-OF-WAY	
DG	DECOMPOSED GRANITE	RC	RELATIVE COMPACTION	
EP	EDGE OF PAVEMENT	RIM	RIM ELEVATION	
EX	EXISTING	RT	RIGHT	
FF	FINISH FLOOR	RCP	REINFORCED CONCRETE PIPE	
IE	INVERT ELEVATION	RSD	SAN DIEGO REGIONAL STANDARD DRAWINGS	
ID	INSIDE DIAMETER	S	SLOPE	
FS	FINISH SURFACE	SCH	SCHEDULE	
FG	FINISH GRADE	SD	STORM DRAIN	
FH	FIRE HYDRANT	SDRSD		
FL	FLOW LINE	SDWAS	SAN DIEGO WATER AGENCIES STANDARDS	
FLG.	FLANGED	SF	SQUARE FEET	
GB	GRADE BREAK	STA	STATION	
HDPE	HIGH DENSITY POLYETHYLENE	TC	TOP OF CURB	
HP	HIGH POINT	TF	TOP OF FOOTING	
LAT	LATERAL	TG	TOP OF GRATE	
LF	LINEAR FEET	TOP	TOP OF PIPE	
LOC	LOCATION	TOS	TOP OF SLOPE	
LT	LEFT	TW	TOP OF WALL	
MAX	MAXIMUM	TYP	TYPICAL	
MIN	MINIMUM	W/	WITH	
МН	MANHOLE	WAS	WATER AGENCIES STANDARDS	
МН	MANHOLE			

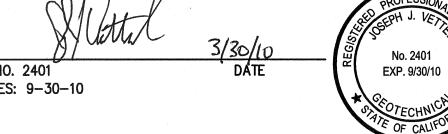
GRADING SPECIFICATIONS

- ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST AND IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT ENTITLED "GEOTECHNICAL INVESTIGATION REPORT, SUNCREST SUBSTATION SDG&E 500KV SUNRISE POWERLINK PROJECT". LOCATED IN THE COUNTY OF SAN DIEGO, CALIFORNIA, DATED DECEMBER 21, 2009, PREPARED BY URS CORPORATION (PROJECT # 27669017.00002), AND UPDATE REPORT AND CHANGE OF GEOTECHNICAL ENGINEER OF RECORD, PREPARED BY GEOCON INC, (PROJECT # G1164.32.01) ______ ALL FILL MATERIAL SHALL BE ACCORDING TO THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND SUBMITTED TO THE SDG&E PROJECT ENGINEER PRIOR TO THE ACCEPTANCE OF
- 2. AT THE COMPLETION OF THE GRADING OPERATIONS, AN AS-GRADED SOILS AND GEOLOGICAL REPORT SHALL BE PREPARED AND DELIVERED TO THE SDG&E PROJECT ENGINEER.
- THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS OUTLINED IN THE REFERENCED GEOTECHNICAL REPORTS PREPARED FOR THIS









TOPOGRAPHY

SOURCE OF TOPOGRAPHY IS: FINLEY ENGINEERING CO., INC., DBA G. E. RALEIGH AND ASSOCIATES, 1800 NW 169TH PLACE SUITE B250, BEAVERTON, OR 97006. AERIAL PHOTOGRAMMETRY BY: DAVID C. SMITH AND ASSOCIATES, INC., 1734 S.E. TACOMA STREET, PORTLAND, OREGON 97202. AERIAL PHOTOGRAPHY DATED AUGUST, 2007, JULY, 2008, AND SEPT, 2008.

BENCHMARK/BASIS OF BEARING

THE BASIS OF COORDINATES OF THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 6, NAD 83 (1992). THE COORDINATES ARE DISPLAYED IN U.S. SURVEY FEET, AS DETERMINED LOCALLY BY THE LINE BETWEEN GPS 32 AND CA 1102, I.E. NORTH 41°29'59 WEST AS SHOWN ON SDCO ROS 14310. THE BENCHMARK USED IS SAN DIEGO COUNTY BENCHMARK WHICH IS A 3 INCH BRASS DISK MARKED USGS H133 SET IN A GRANITE ROAD LEDGE NORTHERLY OF BELL BLUFF TRUCK TRAIL, AND WESTERLY OF JAPATUL VALLEY ROAD. THE ELEVATION OF THE BENCHMARK IS 3152.01 FEET (NAVD 88 DATUM).

SAN DIEGO GAS & ELECTRIC COMPANY

LEGEND

SYMBOL

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A-4 CO

STRUCTURE TYPE

- DETAIL LETTER

-SHEET NUMBER

LEGEND

EXISTING CONTOUR

LIMITS OF GRADING

CUT/FILL LINE

GRADE BREAK

STORM DRAIN

WATER MAIN

CUT-OFF WALL

PCC DRAINAGE DITCH

CONCRETE BACKFILL

RIP-RAP DISSIPATOR

STRAIGHT HEADWALL

ENERGY DISSIPATOR

CANYON SUBDRAIN

OUT-GRATE LID

TYPE A CLEAN OUT

TYPE B-1 CURB INLET

TYPE F CATCH BASIN

TYPE G CATCH BASIN

PAVEMENT SUBDRAIN

PRECAST WATER QUALITY SYSTEM

PRECAST WATER QUALITY SYSTEM

AC PAVING

F.3——STRUCTURE NUMBER STORM DRAIN CALLOUT

CONTECH CDS 3030 DV

CONTECH CDS 2015 DV

6" A.C. BERM TYPE A

MSE WALL/SOIL NAIL

CHAIN LINK FENCE

SPOT ELEVATION

DETAIL CALLOUT

FIRE HYDRANT W/

PROTECTION POST

BLOWOFF ASSEMBLY

AIR RELEASE AND

GATE VALVE

AIR/VACUUM VALVE

AUTOMATIC COMBINATION

SETTLEMENT MONUMENT

MODIFIED TYPE A CLEAN

OUT-TYPE F INLET TOP MODIFIED TYPE A CLEAN

WING HEADWALL

CONCRETE

FLOW LINE

FINISH CONTOUR

CUT SLOPE

FILL SLOPE

STD.

RSD D75

TYPE B & TYPE D

RSD G-33

WAS WP-2

RSD D-40

SDD-100

RSD D-30

RSD D-34

RSD D-41

RSD D-9

RSD D-9

RSD D-2

RSD D-7

RSD D-8

RSD G-5

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WAS WF-1

WAS WF-4

WAS WB-1

WAS WA-2,

WAS WA-3

WAS WV-1

FS\CI\	REVISIONS													SAN DIEGO GAS & ELECTRIC COMPANY SAN DIEGO, CALIFORNIA	
sn\	NO. WORK DONE	DATE:	BY: APP'D:	NO. WORK DONE		DATE:	BY: APP'D: NO	IO. WORK DONE	DATE:	BY:	APP'D: NO.	WORK DONE DATE: BY	APP'D:	SUNCREST SUBSTATION	
, O														SUNCILS I SUBSTATION	
δ														TITLE SHEET, KEY MAP, GENERAL NOTES	
6															
96														DRAWN BY: MJ DATE: 3/24/10 SCALE: AS NOTED W.O.: - REV.: 0	
303														CHECKED BY: RWM DATE: —	
S.S.													AF	APPROVED BY: CR DATE: - SHEET 1 OF 66 SCR-C-001	
Ä N M													C/	CAD NO.: GP01 PLOT SCALE: 1=1	

MSE WALL SECTIONS AND DESIGN CHARTS

SCR-C-037

SCR-C-042

No. 63344 5

EXP. 6-30-10

SCR-C-038-SCR-C-039 MSE WALL DETAILS

SCR-C-040-SCR-C-041 GRADING AND DRAINAGE DETAILS

SCR-C-043-SCR-C-046 GRADING AND DRAINAGE DETAILS

SCR-C-060-SCR-C-065 EROSION CONTROL PLANS

SCR-C-047-SCR-C-059 WATER AND WELL SYSTEM DETAILS

FENCE DETAILS