

GUARDIAN

HELICOPTERS, INC.

HELICOPTER LIFT OPERATIONS SAFETY BRIEF CHECKLIST

PRIOR TO BEGINNING ANY HELICOPTER OPERATION A THOROUGH SAFETY BRIEF WILL BE CONDUCTED UTILIZING THE FOLLOW CHECKLIST: *Bear Valley Mountain Village*

- ☐ SAFETY BRIEF SIGN IN *11-25, 11-26, 11-27*
- ☐ GHI CREW INTRODUCTION *12-2, 12-3, 12-4, 12-5*
- ☐ IS A TRANSLATOR REQUIRED *NON CAP*
- ☐ WORK STOP AUTHORITY *HEC, compressor, poles*
- ☐ DESIGNATE A 911 CALLER *2000 LBS MAX*
- ☐ IDENTIFY CLOSEST EMERGENCY MEDICAL SERVICES *TD 1296914 TD 417014*
- ☐ CREW FATIGUE AND HYDRATION *TD 334483 TD 10168666 TD 1282399*
- ☐ HELICOPTER LIFT LIMITATIONS *TD 1309615 TD 1329458*
- ☐ HAZMAT WILL OR WILL NOT BE CARRIED ON THE HOOK
- ☐ NON GHI EMPLOYEES WILL NOT APPROACH HELICOPTER WITH ROTORS ENGAGED
- ☐ HELICOPTER HAZARD AREA (TAIL/MAIN ROTOR)
- ☐ EFFECT OF ROTOR DOWN WASH ON LOAD

DUST MASK: BURN AREA, DUST, POLLEN EXPOSURE

- ☐ HELICOPTER DOOR REMOVAL AND FIRE EXTINGUISHER LOCATION
- ☐ PPE REQUIREMENTS (GLOVES, EYE PROTECTION, HARD HAT WITH CHIN STRAP)
- ☐ PILOT/GROUND CREW COMMUNICATIONS/ LOST COMMUNICATIONS PROCEDURES
- ☐ POTENTIAL STATIC CHARGE CAUSED BY HELICOPTER
- ☐ SITE PLAN / FLIGHT PATH
- ☐ FALL, PINCH, CRUSH DANGER POINTS
- ☐ RIGGING OPERATIONS CONNECTING AND DISCONNECTING CRANE HOOK AND SPREADER BAR HOOK
- ☐ PROPER SECURING OF EQUIPMENT / TOOLS IN SUPER SACK AND ON LONG LINE
- ☐ STREET CLOSURE / EVACUATION USE DIAGRAM TO ENSURE ALL HOMES ARE CLEAR
- ☐ NO CELL PHONES OR CAMERA USED BY GROUND CREW

Tailboard & Helicopter Safety Briefing

Pilot:

Location:**Mission:****Aircraft:**[illegible]

AIRCRAFT	ENVIRONMENT	EXTERNAL LOAD
☐ Approach and departure ☐ Main/tail rotor hazards ☐ Safe cargo loading/unloading ☐ Loose articles: - Aircraft & LZ ☐ Hearing protection ☐ Door/seatbelt operation ☐ Headset/helmet/intercom ☐ Air-sickness ☐ In-flight emergencies Establish who will call 911 ☐ Location of: o First aid/survival kit o Fire extinguisher o Fuel and battery shut off procedure o Radios, ELT, SAT Phone ☐ Fueling Operations: - Duties & Safety Issues	☐ Weather conditions ☐ Wind direction ☐ Fuel ☐ Gross weight ☐ Terrain ☐ Landing zone hazards ☐ Density altitude ☐ Noise abatement ☐ Congested area plan ☐ Traffic/crowd control CRM ☐ COMMUNICATION IS CRITICAL ☐ Standardized language ☐ "Code Red" phrases ☐ Sterile cockpit ☐ Flight following/radio procedures ☐ Possible tasks for crew, e.g., switch/tune radios, maps ☐ Hazard awareness, e.g., birds, other hazards ☐ STOP work policy ☐ Re-brief in case scope changes ☐ <u>IMSAFE Acronym</u> Pilot fatigue mitigation must be briefed prior to work	☐ Ground crew PPE ☐ Long Line & Rigging Equipment Inspection ☐ Communication: Use of headset for lineman communicating with pilot ☐ Head/Hand Signals ☐ Pole set procedures: Brief how pole will be secured: 1) Taglines 2) Pikes 3) fill dirt ☐ Steps on pole ☐ Remote hook operations ☐ Ground crew hook up procedures ☐ Static discharge ☐ Emergency flyaway procedures ☐ Long line clearance (6'- 25'- 150% rule) ☐ No person under load ☐ Ground crew safety zone ☐ Pole removal with potential snag issues must be discussed ☐ Nylon straps (wood vs. glass) ☐ Load ratings (7:1 minimum) ☐ Dry Run/Play by play pole set Procedures ☐ Induced Voltage from: - Adjacent circuits, Underbuild, Parallel circuits etc. ☐ In case of Non-Company ground crew: Rigging procedures must be briefed ☐ No cell phone/camera use during external loads ☐ Essential crew only

APPROVED

OCT 02 2019 SEP 19 2019



Dispatch Copy

Guardian
11/25-27/20
12/2-5/2015

SCE Aircraft Operations Flight Request Form

Instructions: Please complete this form in its entirety and email to: airops@sce.com or fax to 909-974-4678. Once this form is received by Aircraft Operations, you will receive a response within 24 hours. For questions call SCE Aircraft Operations Dispatch at PAX 11676.

Requestor Information

Flight requested by:*	JOHN WHARTON
Department:*	DIVERSIFIED UTILITY SERVICE
Pax:*	00000
Cell Number:*	661 864-6051
Email Address:*	Whartonj@dsur.com

SAP Accounting Number*	TD1296914 TD1417014 TD334483 TD1016866 TD1282399 BEAR VALLEY
------------------------	--

Flight Description

Please choose a mission type:

- | | | |
|---|--------------------------------------|---|
| ☐ Camera - HD/IR | ☐ Line String | ☒ Pole-set |
| ☐ Crew support | ☐ Passenger | ☐ Recon |
| ☐ External Load | ☐ Patrol | ☐ Training |
| ☒ HEC | ☐ Photo | ☐ Need more info, please contact |

Mission specific details (ex: Passenger name, pole size/weight, external load type, etc):

NEED 7 DET POLES R & R BY HELICOPTER SEE ATTACHED LIST OF FLIGHT REQUEST POLES & WEIGHTS. CONTACT JOHN WHARTON FOR PRE-CON MTG 661 864-6051

General Operating Location	N/S HWY 38 W/O MOUNTAIN HM CRK RD , MENTONE
District	REDLANDS 31
LZ Coordinates (if known)	N34 05 42.93 W116 56 49.20
Pick-up location for passenger flights	
Drop-off location for passenger flights	

Date(s) for which service is requested	OCTOBER 24 2019
Time of Pick-up	0730
Approx. mission duration (if known)	
Back-up date for mission (if known)	OCT. 30 2019

Authorizer	SCE / PGS PAUL WILLIAMSON 909 557-0086
Authorizer PAX and cell number	

*required information

RECEIVED

[Click to e-mail form](#)

For office use only

Date Received by Aircraft Operations: SEP 19 2019 Date Initial Contact Made: _____

Referred to contractor: ☐ No ☐ Yes, Date: _____ Company: _____

Follow up status: ☐ Week 1 _____

☐ Week 2 _____

☐ Week 3 _____

Bucket 1 - 6/26/19

APPROVED

OCT 02 2019



EDISON

Dispatch Copy

Guardian
11/25-27/20
12/2-5/201SCE Aircraft Operations
Flight Request Form

Instructions: Please complete this form in its entirety and email to: airops@sce.com or fax to 909-974-4678. Once this form is received by Aircraft Operations, you will receive a response within 24 hours. For questions call SCE Aircraft Operations Dispatch at PAX 11676.

Requestor Information

Flight requested by:*	JOHN WHARTON
Department:*	DIVERSIFIED UTILITY SERVICE
Pax:*	00000
Cell Number:*	881 884-8051
Email Address:*	Whartonj@dus1.com

SAP Accounting Number*	TD1310088 TD1309815 TD1329458 BEAR VALLEY
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Flight Description

Please choose a mission type:

- | | | |
|---|--------------------------------------|---|
| ☐ Camera – HD/IR | ☐ Line String | ☒ Pole-set |
| ☐ Crew support | ☐ Passenger | ☐ Recon |
| ☐ External Load | ☐ Patrol | ☐ Training |
| ☒ HEC | ☐ Photo | ☐ Need more info, please contact |

Mission specific details (ex: Passenger name, pole size/weight, external load type, etc):

REQUEST FOR 5 HELICOPTER POLE SETS WITH HEC FOR CREWS PLZ
CONTACT JOHN WHARTON FOR PRE-CON MEETING. POLE LIST & MAPS
INCLUDED

General Operating Location	N/S HWY 38 W/O MTN HOME CRK RD , ANGELUS OAKS
District	REDLANDS 31
LZ Coordinates (if known)	N34 05 42.93 W118 56 49.20
Pick-up location for passenger flights	
Drop-off location for passenger flights	

Date(s) for which service is requested	OCTOBER 30 2019 WED.
Time of Pick-up	0800
Approx. mission duration (if known)	
Back-up date for mission (if known)	

Authorizer	SCE / PGS PAUL WILLAIMSON 909 557-0086
Authorizer PAX and cell number	

*required information

RECEIVED

[Click to e-mail form](#)

For office use only

Date Received by Aircraft Operations: OCT 01 2019 Date Initial Contact Made: _____

Referred to contractor: ☐ No ☐ Yes, Date: _____ Company: _____Follow up status: ☐ Week 1☐ Week 2☐ Week 3

Other - 6/26/19

BEAR VALLEY 33KV REQUEST FOR FLIGHT POLES ON 10/30/19

PROPOSED POLES SETS & HEC FOR LINE CREWS

1. 4912059E 50' CL-1 (wt:1974 lbs) TD1310088 (272113S) ^μ
2. 1764118E 45' CL-4 (wt:1078 lbs) TD1309615 ^{4/26}
3. 1610050E 45' CL-4 (wt:1078 lbs) TD1309615 ^{6/26}
4. 1609146E 40' H-2 (wt:1828 lbs) TD1329458
5. 1609145E 40' H-2 (wt:1828 lbs) TD1329458

NOTE: Numbers in parenthesis () old pole number

5 POLES TOTAL FOR HELICOPTER SETS

LZ: N34 05 42.93 W116 56 49.20 (county yard Forest Falls)

**HEC NEEDED FOR DIGGING CREWS AND EQUIP.
FOR OCTOBER 27, 27,28 0700-1600**

**Note : equip may consist of one these air compressors
Small compressor est 1000 lbs
Large compressor est 2000 lbs**

HELICOPTER LZ N34 05 42.93 W116 56 49.20

CHP & TRAFFIC CONTROL SUPPLIED FOR HELICOPTER

TO CROSS HWY 38 @ N34 06 09.91 W116 59 45.02

CONTACT JOHN WHARTON G.F. FOR INFO ON PRE-CON

MEETING 661 864-6051

BEAR VALLEY 33KV REQUEST FOR FLIGHT POLES ON 10/24/19

PROPOSED POLES SETS & HEC FOR LINE CREWS

1. 4823102E 50'CL-2 (wt: 1652 lbs) TD1296914 (272104S) - 6/20
2. 1609681E 50' CL-1 (wt: 1974 lbs) TD1417014 - 6/20
3. 1609676E 50' CL-4 (wt: 1259 lbs) TD1334483 - 6/30
4. 1609678E 50' CL-1 (wt: 1974 lbs) TD1016866 6/30
5. 4909708E 45' CL-4 (wt: 1078 lbs) TD1282399 (272107A) 6/30
- 4909709E 45' CL-4 (wt: 1078 lbs) " " (272107B) 6/30
- 4909710E 50' CL-4 (wt: 1259 lbs) " " (272107C) 6/30

7 POLES TOTAL FOR HELICOPTER SETS

LZ: N34 05 42.93 W116 56 49.20

NOTE; numbers in Parnetheses are old pole numbers

HEC NEEDED FOR DIGGING CREWS AND EQUIP.

ON OCTOBER 21, 22, 23 0800-1600

HELICOPTER LZ: N34 05 42.93 W116 56 49.20

**CHP AND TRAFFIC CONTROL SUPPLIED FOR HELICOPTER
TO CROSS HWY 38 @ N34 06 09.91 W116 59 45.02**

**CONTACT JOHN WHARTON G.F. FOR INFO ON PRE-CON
MTG. 661 864-6051**



SECTION 7

Part 135 GH 4A Part 133 GH 4L

NON-Congested Area Plan

Operator: Guardian Helicopters, Inc
67 D STREET
Fillmore CA. 93015
Phone (818) 442-9904
FAX (818) 442-9901

PROJECT :EDISON HEC EQUIPMENT AND POLES WORK ORDER NUMBER: TD1296914 TD 1417014 TD334483 TD10168666 TD1282399 TD1309615 TD1329458

ADDRESS: HWY 38/VALLEY OF THE FALLS DR : ANGELUS OAKS CA

LZ STAGING AREA 34° 5'40.21"N 116°56'49.33"W

1764175E 34° 6'49.09"N 116°59'15.94"W

1764113E 34° 6'22.66"N 116°59'33.39"W

1609676E 34° 6'25.32"N 116°59'29.69"W

1609678E 34° 6'27.64"N 116°59'24.05"W

1609681E 34° 6'40.98"N 116°59'28.10"W

4939495E 34° 6'41.75"N 116°59'25.79"W

1610050E 34° 7'45.18"N 116°59'15.71"W

1764118E 34° 7'51.39"N 116°59'13.06"W

4912059E 272113S 34° 7'31.93"N 116°59'23.43"W

1609146E 1609145E 34° 7'3.51"N 116°59'13.75"W

CONTRACTOR'S NAME: DIVERSIFIED JOHN WHARTON PHONE#: 661-864-6051

CONTACT AT SITE: DIVERSIFIED UTILITY SERVICE PHONE #: 661-864-6051

PILOT'S NAME(S): 1. JOHN OLSON CERT #: 2769166

2. BUCKEY MACKAY CERT #: 2778051

3. MARTIN RODRIGUEZ CERT #: 3555121

4. MICHAEL KLINK CERT# 33018828

TYPE OF AIRCRAFT: BELL UH-1H N# N711GH A/C CATEGORY: RESTRICTED

BELL UH-1H N# N214KK A/C CATEGORY: RESTRICTED

BELL 205A1 N# N216GH A/C CATEGORY: STANDARD

BELL 407 N# 407GH A/C CATEGORY: STANDARD

AS350 B2 N# N498PT A/C CATEGORY: STANDARD

AS350 B3 N# N718GH A/C CATEGORY: STANDARD

AS350 B3 N# N215GH A/C CATEGORY: STANDARD

TYPE OF ITEM LIFTING: POLE ☐ AERODYNAMIC ☒ NON- AERODYNAMIC

IF SAFETY DICTATES AND OR THE CUSTOMER REQUESTS ADDITIONAL LIFTS THE LIFTS WILL BE CONDUCTED REMAINING WITHIN THE APPROVED TIME PARAMETERS.

TYPE OF LIFTS: HEC SMALL COMPRESSORS AND POLES HEAVIEST POLE IS 2000 LBS

MAX SINGLE - LIFT WEIGHT: 2000 LBS CLASS OF LOAD: EXTERNAL CL B

LONG LINE: (NO) XXX (YES) LESS THEN 150 FT (LENGTH)

OPERATIONAL ALTITUDE: < 250 STREET CLOSING: XX (NO) (YES)

DATE AND TIMES OPERATION WILL BEGIN AND TERMINATE:

FLIGHT DATES	TIME BEGIN	TIME END	TODAY'S DATE
11-25-2019	SUNRISE	SUNSET	11-20-2019
11-26-2019	SUNRISE	SUNSET	11-20-2019

11-27-2019	SUNRISE	SUNSET	11-20-2019
12-2-2019	SUNRISE	SUNSET	11-20-2019
12-3-2019	SUNRISE	SUNSET	11-20-2019
12-4-2019	SUNRISE	SUNSET	11-20-2019
12-5-2019	SUNRISE	SUNSET	11-20-2019
AGENCY NAME:	PHONE#:	PERSON NOTIFIED:	DATE:
YUCAIPA POLICE DEPARTMENT	909-918-2305	WATCH COMMANDER	NOTIFY
ANGELUS OAKS FIRE DEPARTMENT	909-794-3227	WATCH COMMANDER	NOTIFY

Evacuation



No Evacuated Structures

☐ Evacuated Structures

Crowd Control



Operator



Contractor

Street Closure



Yes ☐ No



Contractor

☐ Operator

LIST OF BUILDINGS THAT SHALL EITHER BE PARTIALLY OR ENTIRELY UNOCCUPIED PERSONS:

BUILDING DESCRIPTION/ADDRESS	OWNER(S):	PHONE #:
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Narrative description of pick-up site, route, delivery site, and plan for ceasing operation if unauthorized persons enter operational area or real hazard occurs.

SITE INSPECTION NOTES

ONLY PERSONNEL ESSENTIAL TO COMPLETING THE JOB SAFELY WILL BE PERMITTED TO PARTICIPATE IN THE EVOLUTION. ONLY PERSONNEL PARTICIPATING IN THE SAFETY BRIEF WILL BE PERMITTED TO BE IN THE AREA OF OPERATIONS. ONLY AUTHORIZED ESSENTIAL PERSONAL WILL BE PERMITTED IN THE IMMEDIATE AREA OF OPERATIONS. IN THE EVENT AN UNAUTHORIZED PERSON ENTERS THE OPERATIONS AREA OR A POTENTIAL HAZARD IS IDENTIFIED THE PILOT WILL HOLD THE AIRCRAFT IN RELATIVE POSITION. THIS WILL BE ACHIEVED WITHOUT OVER FLYING THE GROUND CREW. ALL OPERATIONS WILL BE CEASED UNTIL THE PROBLEM IS RECTIFIED. IN THE EVENT OF AN AIRCRAFT EMERGENCY, THE PILOT WILL RADIO GROUND PERSONNEL AND WILL ATTEMPT TO LAND IN THE EMERGENCY LANDING AREA.

DURING THE LIFT EVOLUTION THE AIRCRAFT AND GROUND CREW WILL ALL BE IN RADIO COMMUNICATIONS. IN THE EVENT OF LOSS COMMUNICATIONS THE CREW WILL USE STANDARD HAND SIGNALS TO COMMUNICATE WITH THE PILOT. WHEN THE PILOT IS CLEAR HE WILL MOVE THE AIRCRAFT TO A SAFE LOCATION TO ALLOW THE COMMUNICATION PROBLEM TO BE RECTIFIED.

THE OPERATIONS AREA IS WITHIN THE SECURED AREA. ALL ESSENTIAL CREW WITHIN THE OPERATIONS AREA WILL NOT BE INVOLVED IN TAKING PICTURES OR ANY OTHER USE OF CELL PHONES.

A TAILBOARD SAFETY MEETING WILL BE HELD AT A PRE-DESIGNATED AREA PRIOR TO DAILY HELICOPTER OPERATIONS

1. HELICOPTER WILL LAND IN THE STAGING / FUEL AREA AT COUNTY YARD OFF OF HWY 38 AND VALLEY OF THE FALLS DR

2. FUELING WILL ONLY BE CONDUCTED AT THE STAGING AREA

3. EMERGENCY LANDING ZONE IS AT THE STAGING AREA AND ALONG THE FLIGHT PATH

4. REMOTE AREA NO BUILDINGS ARE IN THE OPERATING AREA.

5. PROVIDE A WATER TRUCK AT THE LANDING ZONES

6. DRIVE INTO YARD WILL BE SECURED FLAGMAN NOT REQUIRED

7. EQUIPMENT AND HEC PICK UP TBD

8. 38 MUST BE CLOSED WHEN FLYING A LOAD ACROSS

9. THE POLES TO THE WEST WILL BE STAGED ALONG HWY 38 REQUIRING THE STREET TO BE CLOSED.

Jeffrey M. J...

11-20-2019

DATE OF SUBMISSION

COMPANY OFFICIAL / TITLE

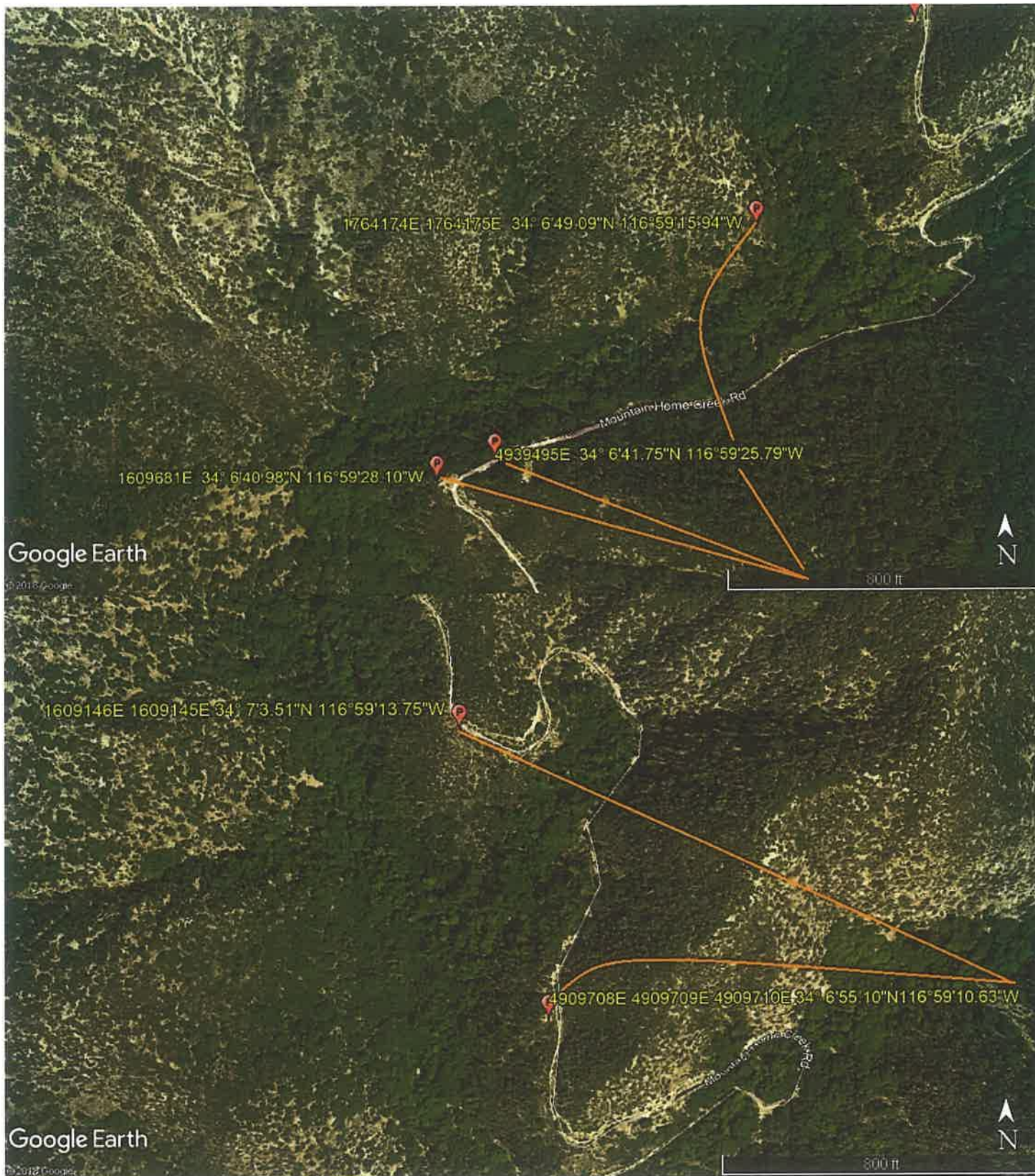


GUARDIAN
HELICOPTERS, INC.

**Part 135 GH 4A Part 133 GH 4L
OPERATIONS AREA DIAGRAM**









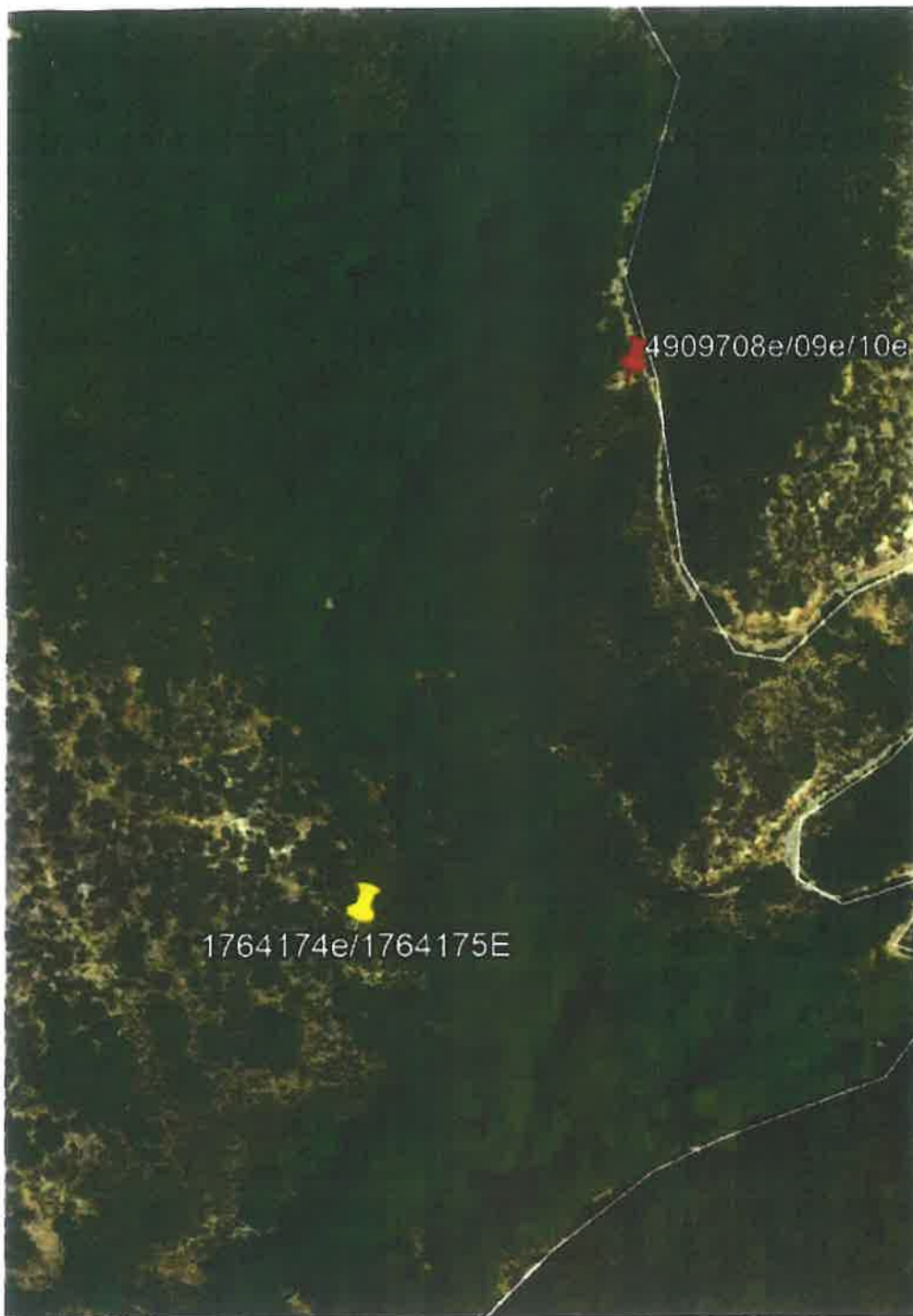
LEGEND

SITE PLAN SYMBOLS: EVACUATION FLIGHT PATH

LANDING AREA = (LZ)	STREET BLOCKED = XXXX	TOP TWO FLOORS = UBT2
ATTACH AREA = (A)	RELEASE AREA = (R)	
FLIGHT PATH = >>>>	EMERGENCY LAND = (ELZ)	
UNOCCUPIED BUILDING = (UBA)	UNOCCUPIED BUILDING TOP FLOOR = (UBT1)	

AREA SURVEY CONDUCTED BY : Jeffrey M. Jutma

12/4



4909708e/09e/10e

1764174e/1764175E

1764174E/1764175E (2 poles)

34 6 49.11N

116 59 15.98W

11/26 5/6

4909708/09/10 (3 poles)

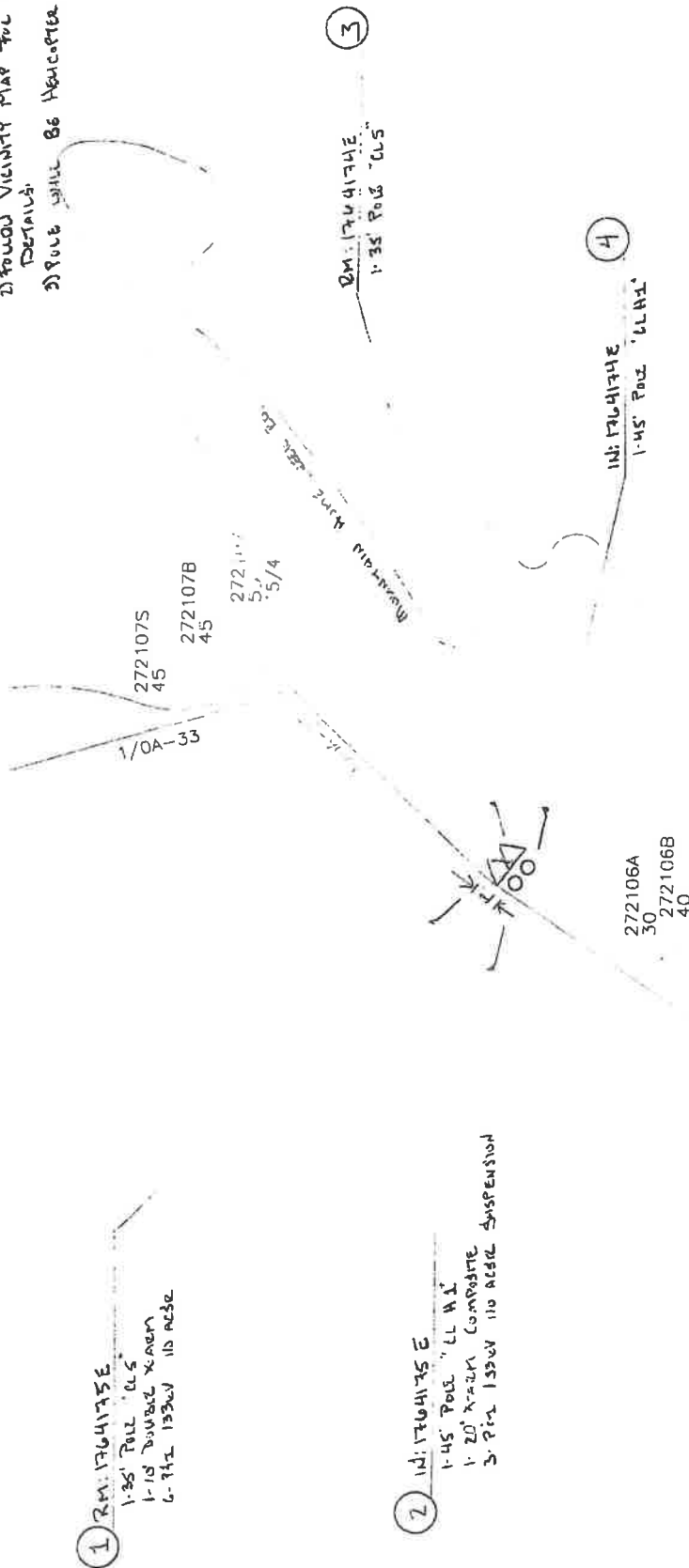
34 6 55.13N

116 59 10.63W

11/27 5/6

NOTE:

- 1) LIST THIS INTRAL SOLID TUBES FOR NEW POLE SETS.
- 2) FOUNDED VICINITY MAP FOR ACCESS DETAILS.
- 3) POLE WILL BE HELICOPTER SET.



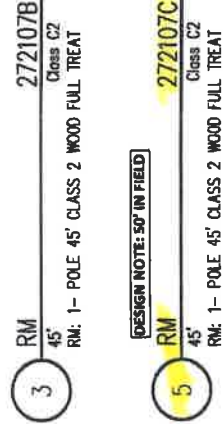
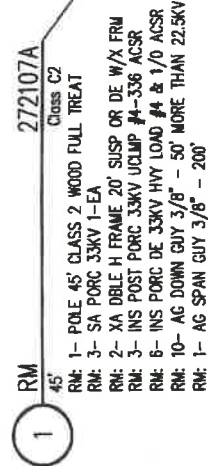
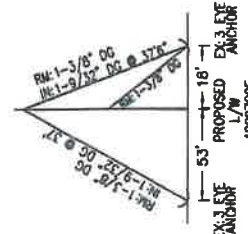
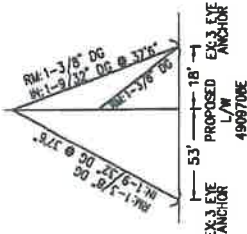
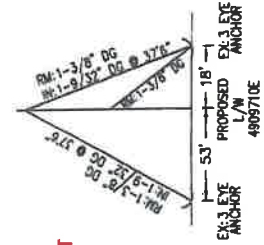
PERMIT INCLUDED

NO ENVIRONMENTAL

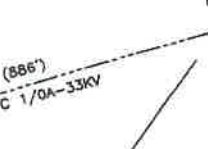
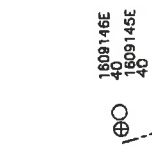
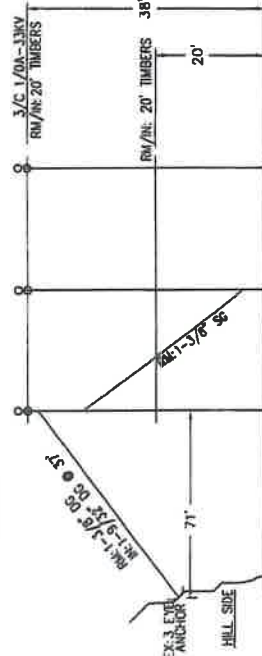
PLANNER: JASSI	JOB NAME: DET. BIL. JASSI # 410002341	FORWARD:	DISTRICT: 3
DWG: JASSI	JOB LOCATION: DET. BIL. JASSI # 410002341	TRUCK:	DATE SENT TO RMR: 22-1-2004
MAP NO: 150103	TRANSPORT REQUIRED: YES	DRAWN BY: JASSI	DIST. SHEET #
JPA NO:	TRANSPORT NO. REQUIRED: NO	PHONE NO:	
	ORD. NO. THOMAS MAP	ENV. MAP NO. 19	
	RELATED W.D.:	VERIFIED (V)	

DECAL / 50

* NOTES:
 ENVIRO POLE - OPEN SPACE / WOODPECKER
 FEDERAL PERMIT REQ'D - SAN BERNARDINO NATIONAL FOREST
 CREW NOTE: INSTALL 50' POLE FOR POLE
 4909710E, BASE OF POLE IS LOWER
 THAN RELATED POLES. ON SLOPE OF HILL.
 BULLETIN 322 AREA
 E-ALL POLE
 HAND SET
 HELICOPTER SET REQ'D
 TR: 3/C 1/0A-33KV



DESIGN NOTE: 50' IN FIELD



PROJECT REQUIREMENTS (Y/N)

EDISON EASEMENT REQUIRED	☒
PWRD 88 REQUIRED	☒
PERMIT REQUIRED	☒
OUTAGE DATE:	TIME:
TRAFFIC CONTROL REQUIRED	☒
PED. TRAFFIC CONTROL REQ'D	☒
CONVEYANCE LETTER REQ'D	☒
ENVIRONMENTAL CLEARANCE REQ'D	☒
CSD 140 (TLM) REQ'D	☒

SET 1' NORTH
 POLE
 45'
 IN: 1- POLE 45' CLASS 4 WOOD FULL TREAT
 IN: 2- XA DBLE H FRAME 20' SUSP OR DE W/X FRM
 IN: 3- INS POLY W/PIN 33KV CLMP #4-653 ACSR
 IN: 6- INS POLY DE 33KV COLD 1/0 ACSR
 IN: 7- AG DOWN GUY 9/32" - 50' MORE THAN 22.5KV
 N: 34° 6' 55.13"
 W: 116° 59' 10.63"
 ELEVATION: 4526'
 4909708E
 Class C4

SET 1' NORTH
 POLE
 45'
 IN: 1- POLE 45' CLASS 4 WOOD FULL TREAT
 N: 34° 6' 55.13"
 W: 116° 59' 10.76"
 ELEVATION: 4524'
 4909709E
 Class C4

SET 1' NORTH
 POLE
 50'
 IN: 1- POLE 50' CLASS 4 WOOD FULL TREAT
 N: 34° 6' 55.17"
 W: 116° 59' 10.88"
 ELEVATION: 4521'
 4909710E
 Class C4



NOT TO SCALE

DISTRICT	31 - REDLANDS	PROJ. MGR.	SANDOVAL, SANDRA	PLANNER	HAMPTON, TEDDER	DESIGNER	HAMPTON, TEDDER
PROJECT NO.	1445219	SERVICE REQUEST	MSR NO.	1282399-INFRA REPLAC - DET POLE REPLACEMENT	PHONE	(909) 628-1253	ASSOC. DESIGN
CIRCUIT / VOLTAGE	2359461	THOMAS GADE	PRODUCT-1	PRODUCT-2	PRODUCT-3	ASSOC. DESIGN	ASSOC. DESIGN
BEAR / VALLEY	33KV	CIRCUIT CODE	01338	PROJECT-3		ASSOC. DESIGN	
INVENTORY MAP	224-2304-2	J.P.A. NO.					
PROPOSED CONSTRUCTION (LOCATION)	272107A, 272107B, 272107C						
1618' W/O HWY 18, 3655' NW/O MOUNTAIN HOME CREEK RD.							
FOREST FALLS, CA							
DATE	7/25/2017	CHECKED BY	SS/ATE	DRAWN BY	PAN #		
TYPE		APPROVED BY					
Southern California Edison Company							SHEET 1 OF 1
DESIGN/WORKING NO.							937933_0.01

12/4



1764113E

34 6 22.67N

116 59 33.40W

1609676E

34 6 25.32N

116 59 29.69W

1609678E

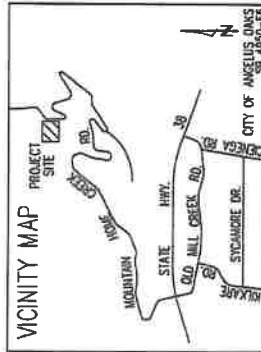
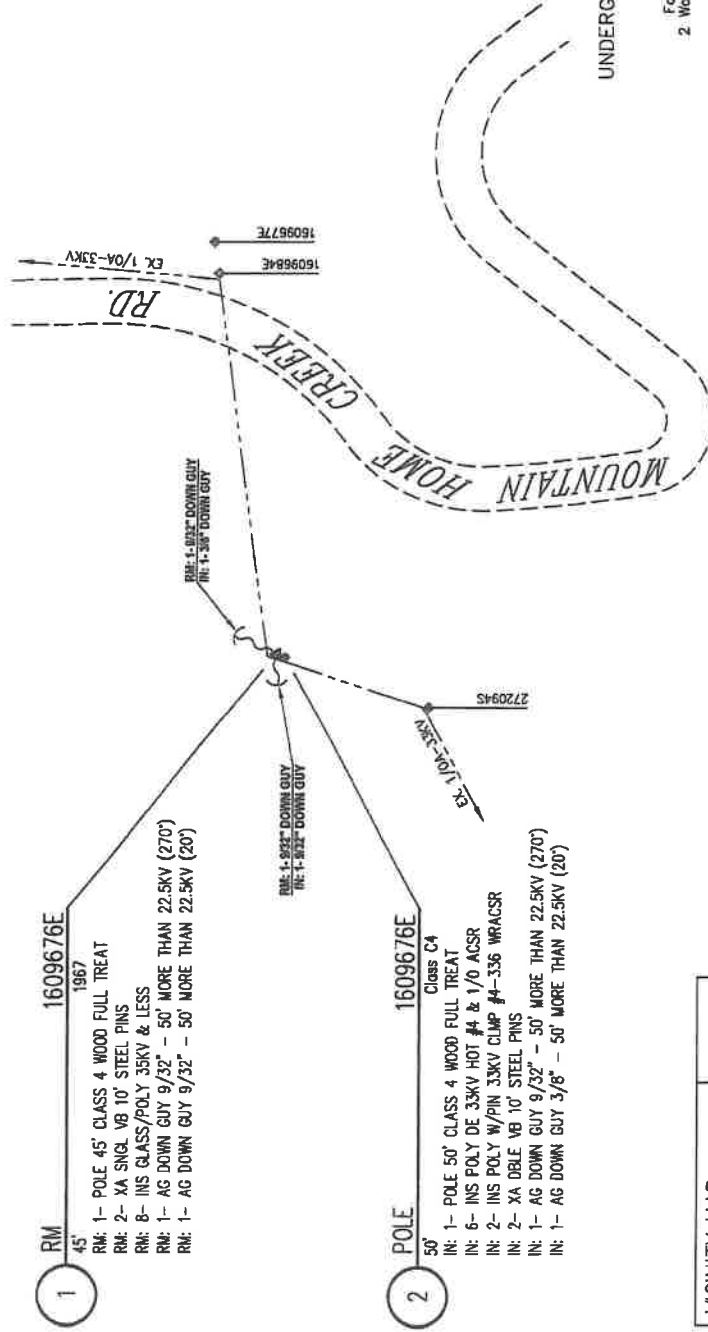
34 6 27.64N

116 59 24.05W

11/25 DIA

PROJECT REQUIREMENTS (Y/N)

- EDISON EASEMENT REQUIRED ☒
- PWRD 88 REQUIRED ☒
- UG CIVIL ONLY WORK ORDER ☒
- PERMIT REQUIRED ☒
- OUTAGE REQUIRED ☒
- OUTAGE DATE: _____ TIME: _____
- TRAFFIC CONTROL REQUIRED ☒
- PED. TRAFFIC CONTROL REQ'D ☒
- CONVEYANCE LETTER REQ'D ☒
- ENVIRONMENTAL CLEARANCE REQ'D ☒
- CSD 140 (TLM) REQ'D ☒

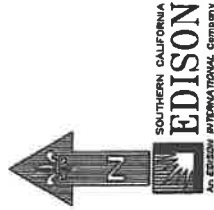


UNDERGROUND SERVICE ALERT

Call 811

For Underground Locating
2 Working Days Before You Dig

NOT TO SCALE



ESTIMATE NO.	31 - REDLANDS	PLANNER	HOGUE, MICHAEL	DESIGNER	MOWERY, CHRISTOPHER
PROJECT NO.	1514444	SERVICE REQUEST	PHONE	909-307-8836	
CIRCUIT / VOLTAGE	24/26075	MSR NO.	1334483	INFRASTRUCTURE REPLACEMENT PLP	ASSOC DESIGN
SUB / PG NO.	BEAR VALLEY 33KV	THOMAS CODE	SB 4950-F6	PROJECT-2	ASSOC DESIGN
		CIRCUIT CODE	PROJECT-3		ASSOC DESIGN
INVENTORY MAP 220-2304-2 J.P.A. NO. E6031-409277110					
PROPOSED CONSTRUCTION (LOCATION)					
REPLACE DET POLE					
VARIOUS LOCATIONS (LOCATION 1)					
ANGELUS OAKS (TIER 3)					
DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAN #	SHEET
Southern California Edison Company					DESIGN/WORK NO. 981319_0.01

NOTES:
• RENTER - CHARTER COMMUNICATIONS
• POLE LOCATED ON A MOUNTAIN NEAR A WALKING TRAIL
• NO VEHICLE ACCESS - CHOPPER SET RECOMMENDED

1609679E
45

NOTE:

HARD SET N.W

POLE

1609678E
Class C1
2

50' IN: 1- POLE 50' CLASS 1 WOOD FULL TREAT
IN: 1- 1/2" XA DBLE VB 10' STEEL PINS
IN: 6- 1/2" INS POLY DE 33KV HOT #4 & 1/0 ACSR
IN: 1- 1/2" INS POLY W/PIN 33KV CLMP #4-653 ACSR
IN: 2- AG DOWN GUY 3/8" - 50' MORE THAN 22.5KV

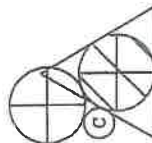
1609678E
Class C4

45' RM: 1- POLE 45' CLASS 4 WOOD FULL TREAT
RM: 1- 1/2" XA DBLE VB 10' STEEL PINS
RM: 6- 1/2" INS POLY DE 33KV HOT #4 & 1/0 ACSR
RM: 1- 1/2" INS POLY W/PIN 33KV CLMP #4-653 ACSR
RM: 2- AG DOWN GUY 9/32" - 50' MORE THAN 22.5KV

NOTE:

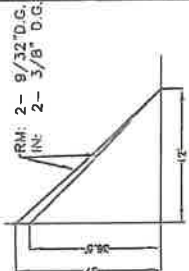
TR: (3) 1/0ACSR - 33KV PRIMARY
TR: (1) ANCHOR

RISER - DETAIL

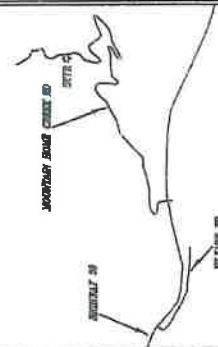


GUY - DETAIL

FACING NORTH



VICINITY MAP



ENVIRONMENTAL SCREENING
REQUIRED?

YES X NO

0121 Rev. 03/20/15

POLE DETAILS

JOINT POLE:	Y
REINFORCING:	Y
WIND FLOW:	N
JOINT MET:	N
TRUCK ACCESS:	N
HAND SET:	N
CONTACT CATY:	Y

MOUNTAIN HOME CREEK RD

1609677E

⊕ 45

1609684E

45

BULLETIN 322:	Y
EAGLE ZONE:	Y
TREE TRAINING REQUIRED:	
TR COMM:	
PULLING ROUTINE:	
SPECIAL AGREEMENT:	
ADDITIONAL NOTES:	

STATIONS
01 & 02



NOT TO SCALE

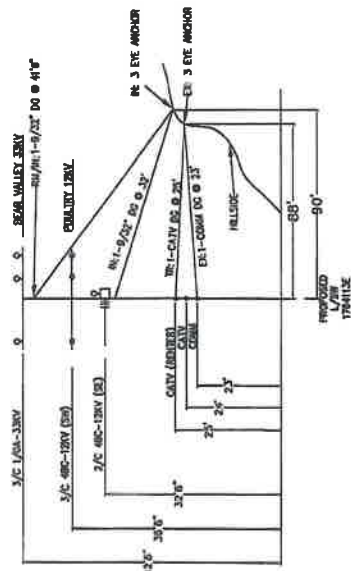
UC / SYNERGETIC Innovative Thinking Engineered Solutions	
GPS COORDINATES	
34° 06'	27.54"
-116° 59'	24.14"
ELEVATION 4176'	
HEAVY LOADING Y	

PROJECT REQUIREMENTS	
EDISON EASEMENT REQUIRED	N
PWRD 88 REQUIRED	N
PERMIT REQUIRED	Y
PERMIT TYPE: FEDERAL LAND - FOREST	
OUTAGE REQUIRED	N
TRAFFIC CONTROL REQUIRED	N
PED. TRAFFIC CONTROL REQ'D	N
PAVEMENT REPAIR REQ'D	N
ASPH CONC	N
SIZE	-

DISTRICT	ST - REDLANDS	PROJ. MGR. RODRIGUEZ, JOHN T	PLANNER MACHARIA, ROBERT K	DESIGNER FITZSIMMONS, TIMOTHY J
PROJECT NO.	SERVICE REQUEST 1090918	PHONE 626-437-9332	PHONE 909-808-7485	
CIRCUIT / VOLTAGE	BEAR VALLEY 33KV	THOMAS GLOBE N/A	PRODUCT-1 1016866-INFRASTRUCTURE REPLACEMENT PLP	ASDC DESIGN
SUB / PG NO.	ZANUA	CIRCUIT CODE	PRODUCT-2	ASDC DESIGN
INVENTORY MP	220-2304-2	4-P.A. NO.	PRODUCT-3	ASDC DESIGN
PROPOSED CONSTRUCTION (LOCATION)				
DET POLE REPLACEMENT (1609678E)				
8171 MOUNTAIN HOME CREEK RD				
REDLANDS, CA				
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY
SHEET				PAGE 2
Southern California Edison Company				OF

DESIGN/DATE NO.
712078 0.01

TEL: 1-800-451-7211



12/4



1609681E

4939495E

34 6 40.98N

34 6 41.81N

116 59 28.10W

116 59 25.84W

DIG

11/26

SPECIAL USE PERMIT

N: 34° 6' 40.98"
W: 116° 59' 28.10"
ELEVATION: 4273'

609681E

Class C1

Class C1

IN: 1- PULE 50 GLASS 1 HS COMP SEC POLE
IN: 4- CROSSARM, COMPOSITE, DEADEND, HEAVY DUTY, 10' LENGTH

2- ATTACHMENT, GUY, DUCTILE IRON

INS POLY DE 33KV HOT SHOE #4 & 1/0 ACSX

IN: 1- AG DOWN GUY 7/16" - 50' LESS THAN 22.5KV
IN: 1- AG DOWN GUY 3/8" - 50' LESS THAN 22.5KV

AXR777 WILL GET ON 2/5 1:00 WOOD AV 1 W

HFLA 4.19.19

TIER: 3



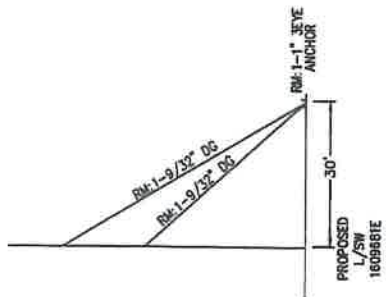
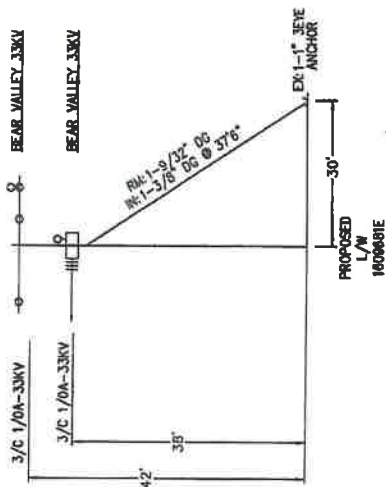
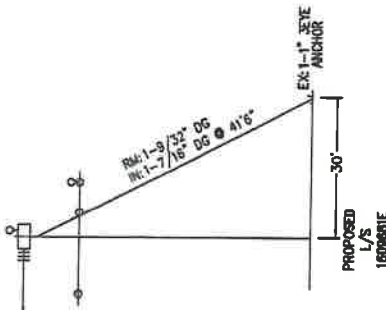
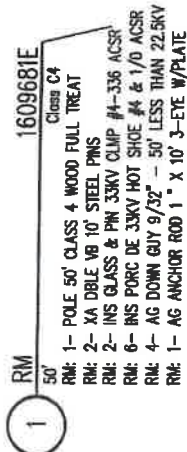
SECTIONAL COMPOSITE

NOT TO SCALE

[illegible]

PROJECT REQUIREMENTS (Y/N)	
EDISON EASEMENT REQUIRED	N
PMRD 88 REQUIRED	N
UG CIVIL ONLY WORK ORDER	N
PERMIT REQUIRED	Y
PERMIT TYPE: OUTAGE REQUIRED N	
OUTAGE DATE: TIME:	
TRAFFIC CONTROL REQUIRED	N
PED. TRAFFIC CONTROL REQD	N
CONVEYANCE LETTER REQD	N
ENVIRONMENTAL CLEARANCE REQD	Y
CSD 140 (TLM) REQD	N

1174 Rev: 02/08/11



* NOTES:

HIGH FIRE - 3

RENTER - CONTACT CATV

ENVIRO POLE - WOODPECKER

FEDERAL LAND - US FOREST SERVICE

BULLETIN 322 AREA

ALL-POLE

COMPOSITE POLE

HARD ACCESS: OFF OF A WASHED UP DIRT ROAD WITH NO TRUCK ACCESS. BEHIND LOCKED GATE.

HAND SET

RIGHTS CHECK REQ'D - FEDERAL LAND

TR: 3/C 1/0A-33KV(N/E)

TR: 3/C 1/0A-33KV(SE)

12/5



050E

34 745.25N

116 59 15.79W

12/3 1/6

118E

34 7 51.39N

116 59 13.06W

EX: 27705 101

175415Z
FM
TO
INFO
SUBJ
REF
ATTACH
175415Z

FILE 1/641129

3 JUL 85 161045Z
 1- PAGE 45 CLASS 2 0000 1000Z
 001 1 2A 0000 00 00 0000 0000
 002 3 0000 0000 0000 0000
 003 1 0000 0000 0000 0000

45 - RULE IS CHASE A HUNGARY 1041
 161005Z
 4
 Cent 04

UNIVERSITY OF MICHIGAN LIBRARY

[illegible]

12/5

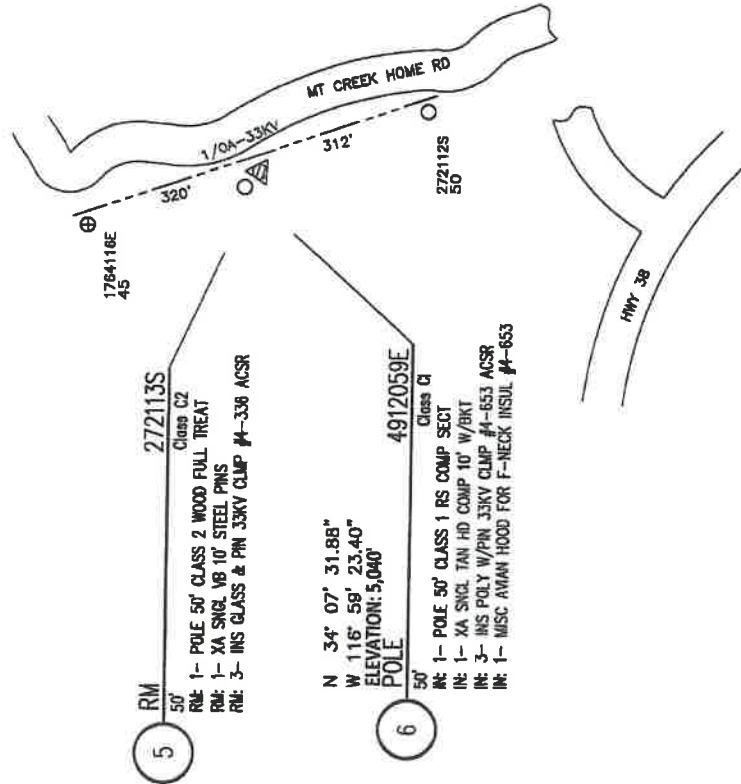


34 7 31.93N
116 59 23.43W

12/3

COMPOSITE POLE
ENVIRO POLE - WOODPECKER DAMAGE & OPEN & WEEDY
HARD ACCESS: OFF HIKING TRAIL, NO VEHICLE ACCESS
BULLETIN 322 AREA
EAGLE ZONE
HAND SET
SET 1' NORTHWEST

SUP
SPECIAL USE PERMIT



3/C 1/0A-33KV @ 41'6"



**SOUTHERN CALIFORNIA
EDISON**
AN EDISON INTERNATIONAL COMPANY

PROJECT REQUIREMENTS (Y/N)	
ERSON EMPLOYMENT REQUIRED	87
PERM AS REQUIRED	88
PERMIT REQUIRED	89
PERMIT TYPE	
OUTSIDE REQUIRED	90
OUTSIDE DATE: _____ TIME: _____	
TRAFFIC CONTROL REQUIRED	91
PEL TRAFFIC CONTROL, NEED	92
CONFORMANCE LETTER BOND	93
ENVIRONMENTAL CLEARANCE REQD	94
CSD 140 (Y/N) REQD	95

ESTIMATOR 31 - REDLANDS	PROJ. MGR. LIVINGSTON, JASON	PLANNER ASPLUNDH	DESIGNER ASPLUNDH
DESIGN NO. 13435853	SERVICE REQUEST 2396542	PHONE 714-323-4041	PHONE 714-893-2405
DATE MAY 7/80	BY ZANIA SUB	PRODUCT-1 1310080-INFR A REPLAC -- DET POLE REPLACEMENT	ASSOC DESIGN
		PRODUCT-2	ASSOC DESIGN
		PRODUCT-3	ASSOC DESIGN
PROPERTY MAP	U.P.A. NO. 228-2304-2	PROPOSED CONSTRUCTION (LOCATION) POLE # 212113S	
		MT CREEK HOME RD W/S 9080' W/O HWY 38	
		ANGELUS OAKS, CA	
TYPE	DATE	APPROVED BY	CHECKED BY
			ASPL
DRAWN BY			
SHEET			
DESIGN/DATE NO.			960832 0.01
Southern California Edison Company			

DATE: 08/08/2018

12/5



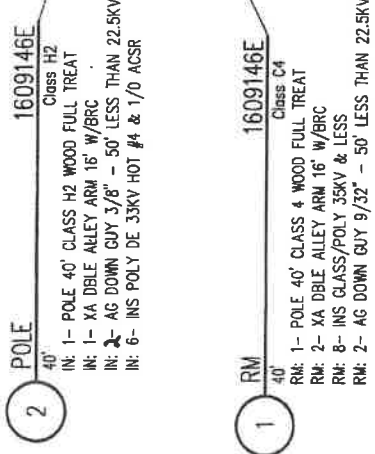
146E/145E (2 poles)

34 7 3.51 N

116 59 13.75 W

12/2

The map shows a network of roads. Highway 30 runs vertically on the right side, with 'FOREST FALLS' at the top and 'MOUNTAIN HOME' at the bottom. Highway 75 runs horizontally across the middle, with 'ANGELUS OAKS' on the left. A road branches off Highway 30 towards the top left, passing a box that marks the study site. The box is located between Highway 30 and Highway 75, closer to Highway 30.



CREW NOTES:
• TRAMP POLE, RE-BUILD AS SEEN IN FIELD.

UNDERGROUND SERVICE ALERT

Call USA

Underground Locating

Underground Locating

NOT TO SCALE



**SOUTHERN CALIFORNIA
EDISON**
An EDISON INTERNATIONAL Company

EDISON EASEMENT REQUIRED

EDISON EASEMENT REQUIRED

03/11/2008 08:00 PM

1 WIND 66 REQUIRED

PERMIT REQUIRED ☒ YTYPE: FORESTRY☒ OUTPACE REQUIRED

OUTAGE REQUIRED

TIME: _____

CONTROL REQUIRED ☐ N

Specific Control Req'd

NO CONTROL REQ'D

ANCE LETTER REQ'D

Y
L CLEARANCE REQ'D

SD 140 (TLM) REQ'D ☐ N

OWNER		PROJ. MGR. SANDOVAL, SANDRA		PLANNER DENT, MICHAEL	DESIGNER
331 - REDLANDS		PHONE 909-660-1362		PHONE 909-307-6874	L ADAMS
PROJECT NO. SERVICE REQUEST		MSR NO.		PRODUCT - 1	
15062605 2420024		N/A		1329458	
CIRCUIT / VOLTAGE		THOMAS GARD		PRODUCT - 2	
BEAR VALLEY 33KV					
248 / PG NO.		CIRCUIT CODE		PRODUCT - 3	
ZANUA					
INVENTORY MAP		J.P.A. NO. EQ031-408970837		PROPOSED CONSTRUCTION (LOCATION)	
				DET POLE REPLACEMENT	
				STR 1609145E 2.5 MILES N/O LOCH LEVEN CONFR	
				MOUNTAIN HOME/ANGELUS OAKS	
				NOTIFICATION #408761203	
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	SHEET
				PAT	DESIGN/WORKING NO.
					1 037060 001
				Southern California Edison Company	