

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:

- ☐ SAFETY BRIEF SIGN IN
- ☐ GHI CREW INTRODUCTION
- ☐ IS A TRANSLATOR REQUIRED
- ☐ WORK STOP AUTHORITY
- ☐ DESIGNATE A 911 CALLER
- ☐ IDENTIFY CLOSEST EMERGENCY MEDICAL SERVICES
- ☐ CREW FATIGUE AND HYDRATION
- ☐ HELICOPTER LIFT LIMITATIONS
- ☐ 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

5-28-2019

Springville

TD 1421701 TD 1483083

7 poles Largest 2400 LBS

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

[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

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:*	Ron Maurer (559)331-1399 / Hot Line GF Jeff Emerson
Department:*	San Joaquin Region
Pax:*	73454
Cell Number:*	(559)331-1399
Email Address:*	ronald.maurer@sce.com

SAP Accounting Number*	TD1421701 / TD1483083
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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):

This mission involves helicopter setting a total of 7 poles (2 - H-frames & 3 single poles).
All details of pole sizes, weights and locations are detailed on the spread sheet, also a kmz is attached.

General Operating Location	Springville
District	51
LZ Coordinates (if known)	36.134853 -118.788514
Pick-up location for passenger flights	
Drop-off location for passenger flights	

Date(s) for which service is requested	5/28/2019
Time of Pick-up	0700
Approx. mission duration (if known)	8
Back-up date for mission (if known)	

Authorizer	Michael J Robb
Authorizer PAX and cell number	73474 / (559)972-4151

**required information*

[Click to e-mail form](#)

For office use only

Date Received by Aircraft Operations: _____ Date Initial Contact Made: _____

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

Follow up status: ☐ Week 1 _____

☐ Week 2 _____

☐ Week 3 _____

San Joaquin Region Helicopter Set Date/s 5/28/19

#	Circuit	TD. #	Fly Date	Sta	Str. #	Pole Size	Weight	Elev	Coordinates	Notes/pole pickup loc
1	Mahogany	TD1421701	5/28/2019	1/2	722738E	45 H-1	2300	4300'	36.147092° -118.646542°	H-Frame 1
2	Mahogany	TD1421701	5/28/2019	3/4	722737E	45 H-1	2300	4300'	36.147092° -118.646542°	H-Frame 1
3	Mahogany	TD1421701	5/28/2019	5/6	722739E	45 H-1	2300	4300'	36.145797° -118.644186°	H-Frame 2
4	Mahogany	TD1421701	5/28/2019	7/8	722740E	45 H-1	2300	4300'	36.145797° -118.644186°	H-Frame 2
5	Mahogany	TD1483083	5/28/2019	1/2	1783319E	45' CL-1	1930	2405	36.157885° -118.730264°	
6	Mahogany	TD1483083	5/28/2019	3/4	4541277E	45' CL-2	1560	2410	36.157983° -118.729267°	
7	Mahogany	TD1483083	5/28/2019	5/6	1783321E	45' CL-2	1560	2420	36.157872° -118.727969°	
8										
9										
10										
11										
12										
13										
14										

LZ: Tailboard location and all 7 poles staged here at the SCE Tule Power House

Town: Springville

GPS 36.134853° -118.788514°

Elevation 1200'

Hot Line Contacts

Jeff Emerson 559-376-3870

SCE PGS Contacts:

Ron Maurer (559)331-1399

Jeff Milhous (559)476-9264

Notes:

TD1421701 consists of 2 H-frames 722737E & 738E is H-frame 1, 722739E & 740E is H-frame 2



SECTION 7

Part 135 GH 4A Part 133 GH 4L
NON-Congested Area Plan

Operator: Guardian Helicopters, Inc
16425 Hart Street
Van Nuys, CA 91406
Phone (818) 442-9904
FAX (818) 442-9901

PROJECT: EDISON POLE REPLACEMENT WORK ORDER # TD 1421701 TD 1483083
ADDRESS: HWY 190 TULE POWER HOUSE : SPRINGVILLE CA
LZ STAGING AREA LATITUDE 36° 8'5.36"N LONGITUDE 118°47'18.61"W
1783319E LATITUDE 36° 9'28.41"N LONGITUDE 118°43'48.95"W 45CL1 1930 LBS
4541277E 45 CL 2 1560 LBS LATITUDE 36° 9'28.76"N LONGITUDE 118°43'45.32"W
1783321E 45 CL 2 1560 LBS LATITUDE 36° 9'28.33"N LONGITUDE 118°43'40.67"W
HFRAME STAGING AREA LATITUDE 36° 8'56.33"N LONGITUDE 118°39'8.69"W
H FRAME 722737E/722738E 45 H1 2300 LBS LATITUDE 36° 8'49.62"N LONGITUDE 118°38'47.44"W
HFRAME 722739E/722740E 45 H1 2300 LBS LATITUDE 36° 8'44.95"N LONGITUDE 118°38'38.98"W

CONTRACTOR'S NAME: JEFF EMERSON HOTLINE PHONE#: 559-376-3870
CONTRACTOR'S NAME: JEFFREY MILLOUS SCE PHONE#: 559-476-9264
CONTRACTOR'S NAME: RON MAURER SCE PHONE#: 559-331-1399
CONTACT AT SITE: STUART RUSSELL HOTLINE PHONE #: 925-237-6937
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# N407GH 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: (7) POLES AND EQUIPMENT

MAX SINGLE - LIFT WEIGHT: 2400 LBS CLASS OF LOAD: EXTERNAL

NO. OF LIFTS: TBD LONG LINE: (NO) XXX (YES) LESS THEN 150 FT (LENGTH)

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



NON- Congested Area Plan (Continued)

DATE AND TIMES OPERATION WILL BEGIN AND TERMINATE

FLIGHT DATES	TIME BEGIN	TIME END	TODAY'S DATE
5-28-2019	SUNRISE	SUNSET	5-23-2019
CROWD CONTROL			
OWNER:	XXX	CONTRACTOR:	XXX
OPERATOR:	XXX	SECURITY:	
AGENCY NAME:	PHONE#:	PERSON NOTIFIED:	DATE:
SPRINGVILLE	559-539-2626	TULARE STATION 22	NOTIFY
SHERIFF	559-782-9650	TULARE COUNTY SHERIFF	NOTIFY

LIST OF BUILDINGS THAT SHALL EITHER BE PARTIALLY OR ENTIRELY UNOCCUPIED PERSONS ALSO HOMES THAT WILL BE NOTIFIED OF ACTIVITY:

BUILDING DESCRIPTION/ADDRESS	REMARKS	METHOD OF CONTACT
SEE DIAGRAM	VACANT DURING OPERATION	HAND DELIVER

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.

TAIL BOARD SAFETY MEETING WILL BE HELD AT A PRE AGGreed-on LOCATION PRIOR TO EACH DAY.

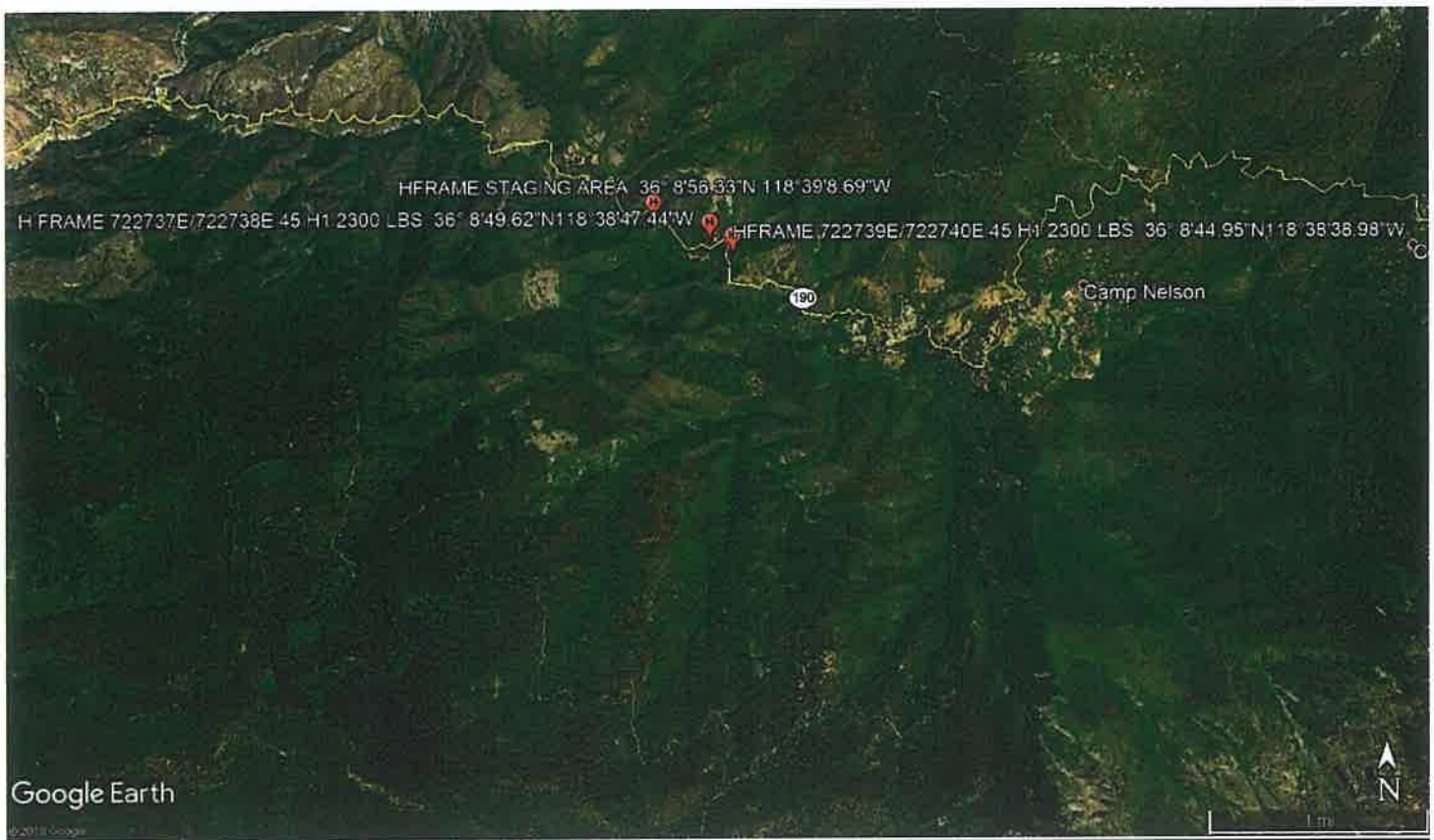
1. HELICOPTER WILL LANDED AT THE ASSIGNED STAGING AREA ONLY.
2. FUELING WILL ONLY BE CONDUCTED AT THE AIRPORT OR ASSIGNED LANDING STAGING AREA
3. EMERGENCY LANDING ZONE IS AT THE STAGING AREA AND ALONG THE FLIGHT PATH
4. NO STRUCTURES WILL BE EVACUATED
5. WATER TRUCK WILL BE PROVIDED STAGING LANDING AREA
6. SEE DIAGRAM FOR STREET CLOSURES
7. POLES WILL BE FLOWN FROM ASSIGNED STAGING AREAS

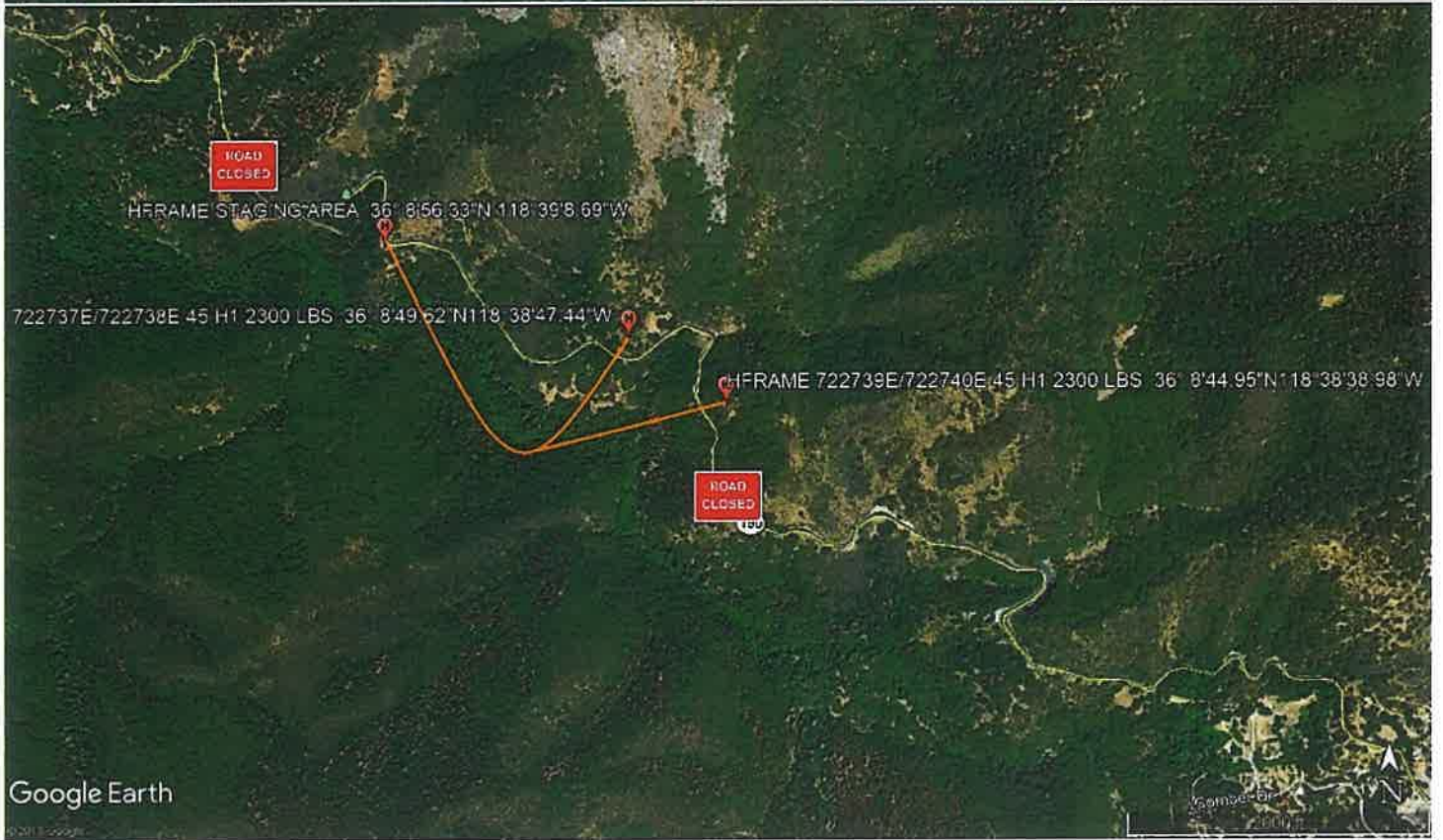
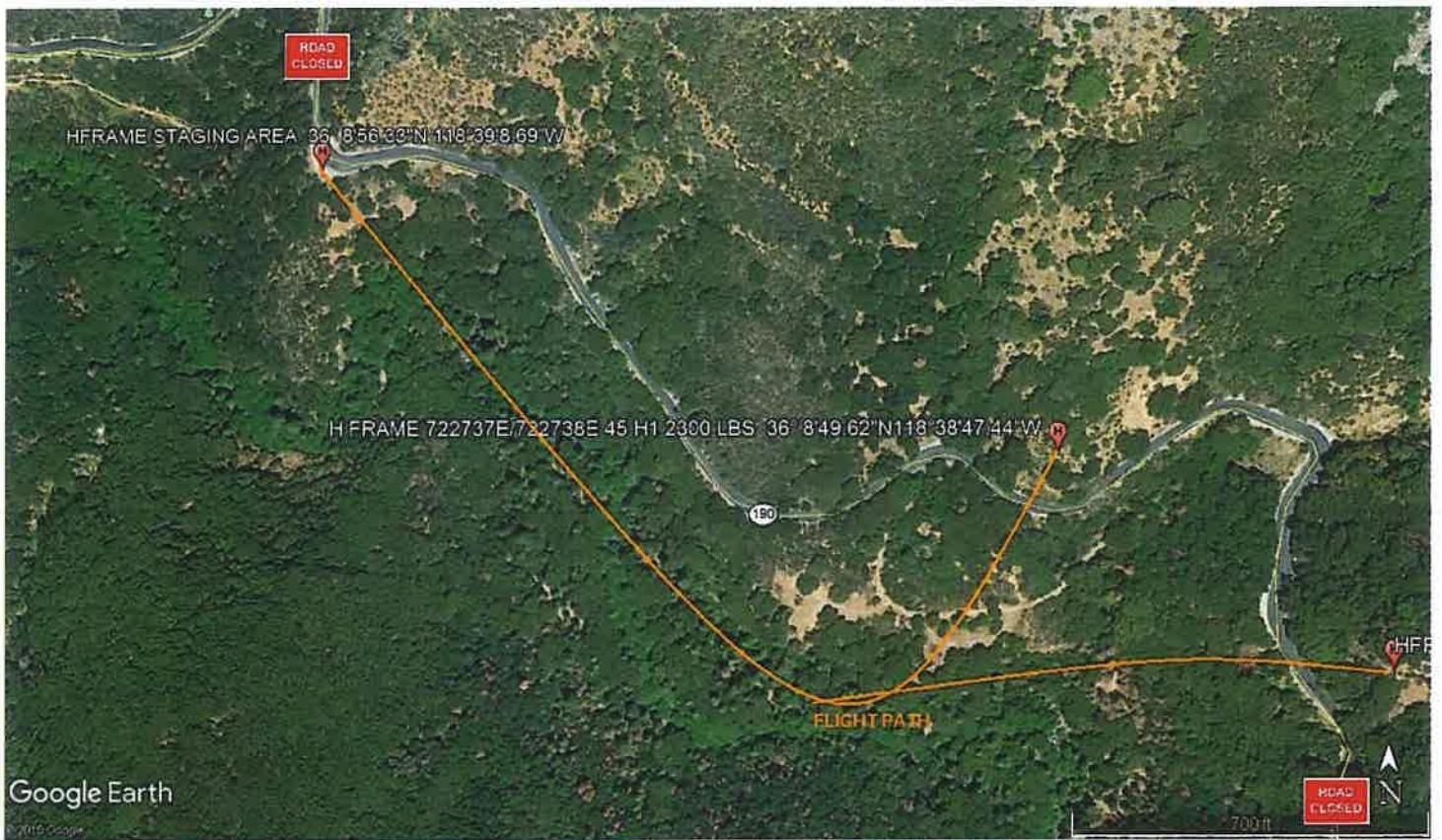


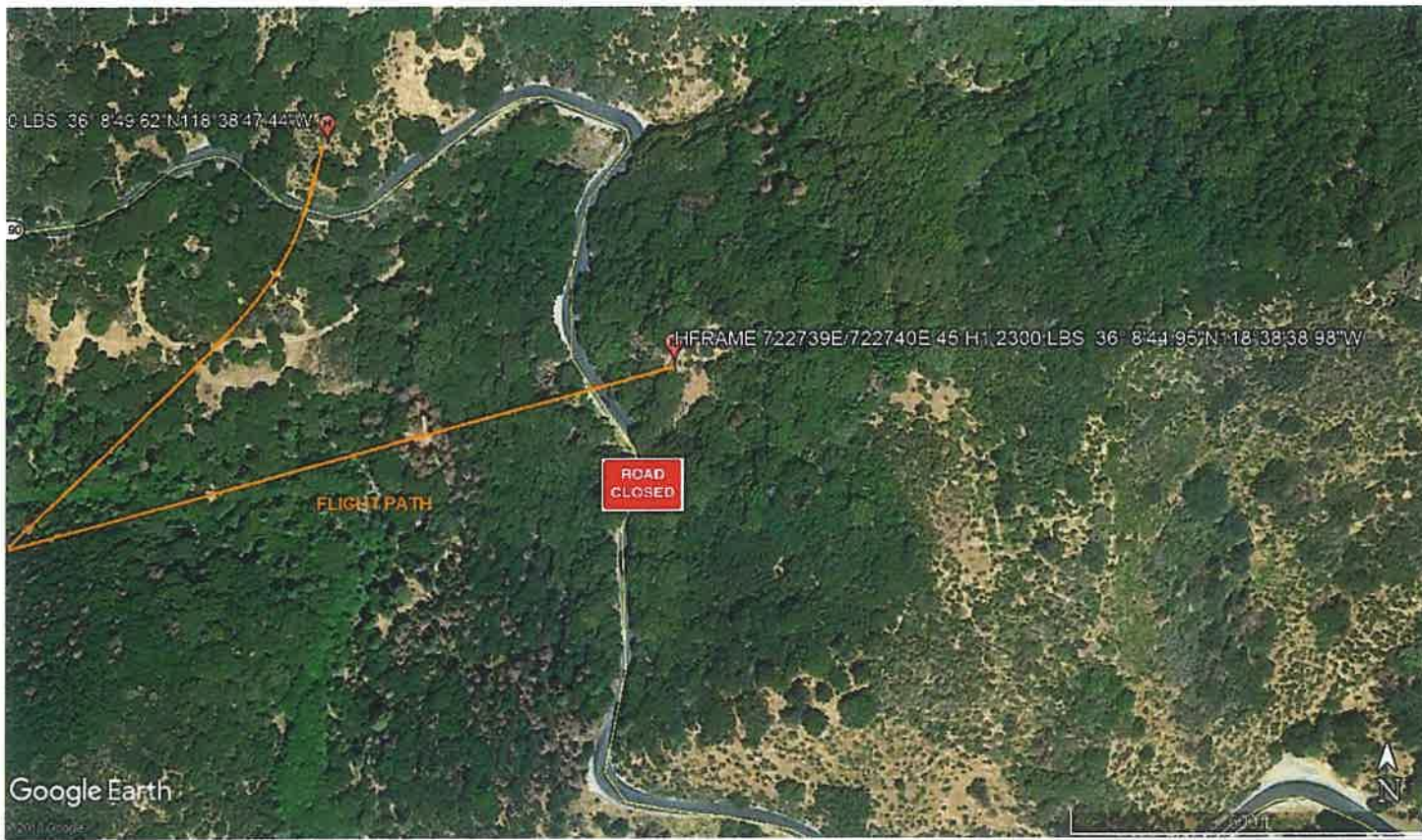
GUARDIAN
HELICOPTERS, INC.

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







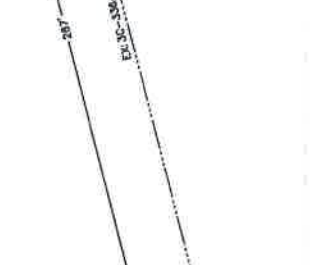
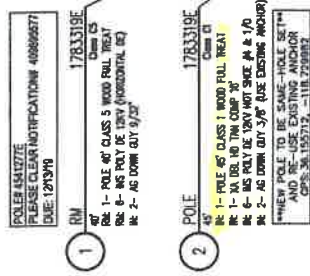
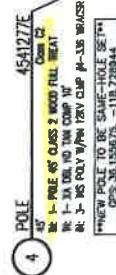
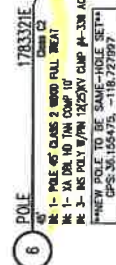
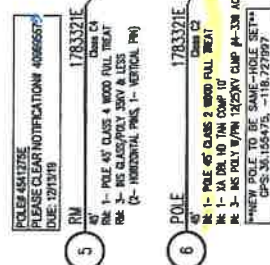
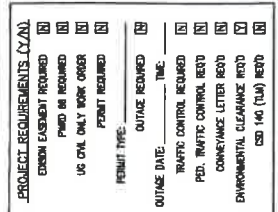


LEGEND

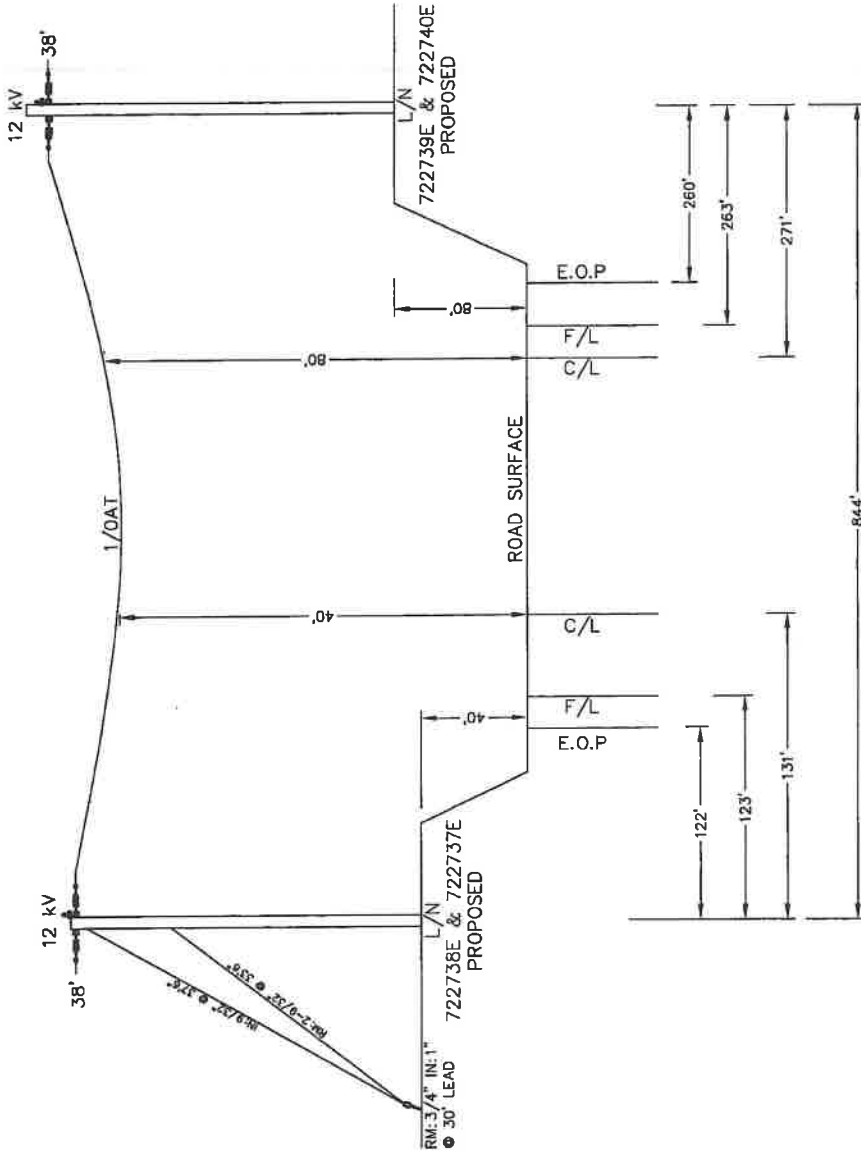
SITE PLAN SYMBOLS: EVACUATION FLIGHT PATH

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. Jentura

[illegible]

CAL-TRANS EXHIBIT MAP



NOT TO SCALE

DISTRICT 51 - TULARE	PROJ. MGR. DEEDS, DUANE	PLANNER PHONE 661-325-3212	DESIGNER DIVERSIFIED UTILITIES
PROJECT NO. 1622561	SERVICES REQUEST 2530945	PRODUCT-1 1421701-INFRASTRUCTURE REPLACEMENT PLP	ASSOC DESIGN
CIRCUIT / VOLTAGE MAHOGANY 12KV	THOMAS GUIDE	PRODUCT-2	ASSOC DESIGN
SUB / PPS NO. % TULE (PG&E) A2	CIRCUIT CODE	PRODUCT-3	ASSOC DESIGN
INVENTORY MAP 292-2100-2	J.P.A. NO.	PROPOSED CONSTRUCTION (LOCATION) STR# 722739E & 722740E / 722738E & 722737E 1.7 MI W/O PIERPOINT 144' N/O HWY 190 CAMP NELSON, CA	
DATE 10/17/2018	APPROVED BY	CHECKED BY	DRAWN BY
TYPE	DATE	APPROVED BY	CHECKED BY
Southern California Edison Company			
SHEET			DESIGNING NO. 1052104_0.01

NOTES: 722739E

- NO TRUCK ACCESS
- SET HARD SOUTH EAST
- HELICOPTER SET
- RIGHTS CHECK (FEDERAL LAND/ CAL-TRANS)

TRANSFER:

- 3-1/OA-12

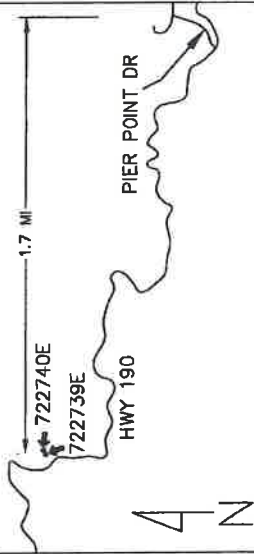
NOTES: 722740E

- NO TRUCK ACCESS
- SET HARD SOUTH EAST
- HELICOPTER SET
- RIGHTS CHECK (FEDERAL LAND/ CAL-TRANS)

TRANSFER:

- 3-1/OA-12

VICINITY MAP



REPLACE ON STATIONS 1 & 2, 5 & 6

722739E Class C5

- RM: 1- POLE 40' CLASS 5 WOOD FULL TREAT
- RM: 1- XA DBLE H FRAME 20' SUSP OR DE W/X FRM
- RM: 1- AG DOWN GUY 9/32" - 50' LESS THAN 22.5KV

5

36' 8" 44.96" N,
118' 38" 39.03" W
ELEV: 4,300'

POLE

722739E Class C1

- IN: 1- POLE 45' CLASS 1 COMP SEC POLE
- IN: 1- XA, H-FRM, DE, 20', COMP CATALINA ONLY
- IN: 1- AG DOWN GUY 9/32" - 50' LESS THAN 22.5KV
- IN: 1- OH GUYING TEE W/HARDWARE CMP & WOOD

6



12 kV 37'6"

37'6"

12 kV

37'6"

12 kV

37'6"

PROJECT REQUIREMENTS (Y/N)	
EDISON EASEMENT REQUIRED	☒
PMRD 88 REQUIRED	☒
UC CIVIL ONLY WORK ORDER	☒
PERMIT REQUIRED	☒
PERMIT TYPE: CAL-TRANS	☒
OUTAGE REQUIRED	☒
OUTAGE DATE: _____ TIME: _____	
TRAFFIC CONTROL REQUIRED	☒
PD, TRAFFIC CONTROL REQ'D	☒
CONVEYANCE LETTER REQ'D	☒
ENVIRONMENTAL CLEARANCE REQ'D	☒
CSD 140 (TUM) REQ'D	☒

722739E & 722740E

PROPOSED

PROPOSED

SECTIONAL COMPOSITE POLES INSTALLED ON THIS WORK ORDER

722740E Class C5

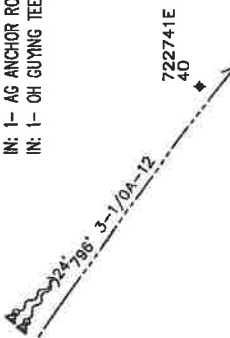
- RM: 1- POLE 40' CLASS 5 WOOD FULL TREAT
- RM: 6- INS GLASS/POLY 35KV & LESS
- RM: 1- AG DOWN GUY 9/32" - 50' LESS THAN 22.5KV
- RM: 6- DE SHACKLES
- RM: 3- ANGLE IRON SUPPORTS
- RM: 1- AG ANCHOR ROD 3/4" X 8' 2-EYE W/PLATE

36' 8" 44.87" N,
118' 38" 39.07" W
ELEV: 4,300'

POLE

722740E Class C1

- IN: 1- POLE 45' CLASS 1 RS COMP SEC POLE
- IN: 6- INS POLY DE 12KV HOT SHOE #4 & 1/0
- IN: 3- INS POLY W/PIN 12(25)KV CLIP #4-336 ACSR
- IN: 6- DE SHACKLES
- IN: 3- ANGLE IRON SUPPORTS
- IN: 1- AG DOWN GUY 9/32" - 50' LESS THAN 22.5KV
- IN: 1- AG ANCHOR ROD 1" X 10' 3-EYE W/PLATE
- IN: 1- OH GUYING TEE W/HARDWARE CMP & WOOD



722741E 40

3-1/OA-12

224' 196"

3-1/OA-12

40

722741E

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3-1/OA-12

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722741E

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3-1/OA-12

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722741E

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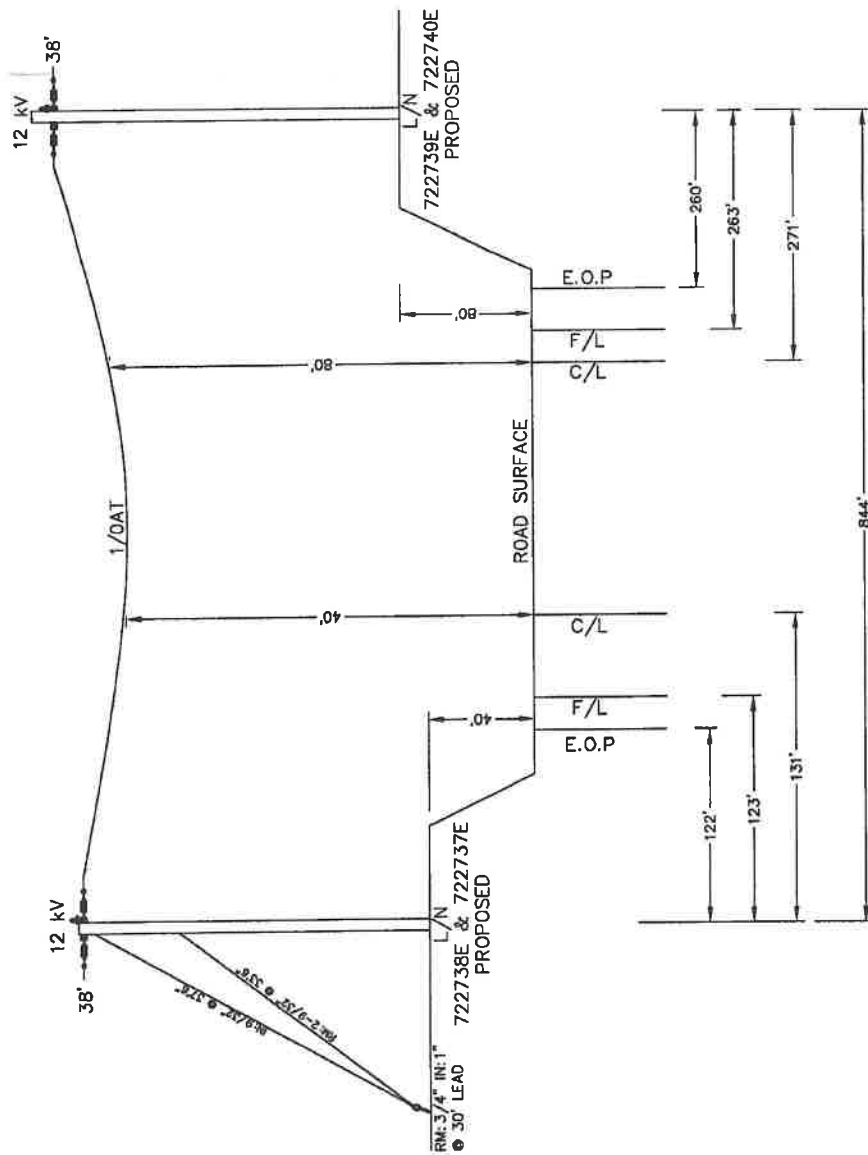
722741E

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3-1/OA-12

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CAL-TRANS EXHIBIT MAP



**SECTIONAL COMPOSITE
POLE(S) INSTALLED
ON THIS WORK ORDER**



NOT TO SCALE

[illegible]