



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

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



HELICOPTER HEC OPERATIONS SAFETY BRIEF CHECKLIST

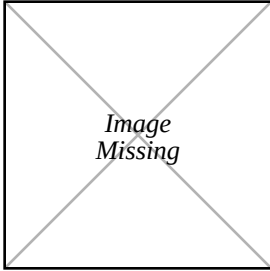
PRIOR TO BEGINNING ANY HELICOPTER HEC OPERATIONS A THOROUGH SAFETY BRIEF WILL BE CONDUCTED UTILIZING THE FOLLOW CHECKLIST THIS DOES NOT SUPERSEDE INITIAL HEC TRAINING REQUIREMENTS

- ☐ CONDUCT STANDARD HELICOPTER LIFT SAFETY BRIEF PRIOR TO HEC SAFETY BRIEF
- ☐ HEC SAFETY BRIEF SIGN IN
- ☐ INITIAL HEC TRAINING VERIFIED ISSUE STICKER DISPLAYED ON HELMET
- ☐ WORK STOP AUTHORITY
- ☐ PPE REQUIREMENTS (HELMETS, EYEWEAR, GLOVES AND FOOTWEAR)
- ☐ HARNESS, FITMENT, CONDITION AND LOAD LIMIT
- ☐ PROPER USE OF ATTACHMENT EQUIPMENT (CARABINERS)
- ☐ BUDDY /SELF CHECK
- ☐ COMMUNICATIONS REQUIREMENTS VIA RADIO OR HEAD AND HAND SIGNALS (RADIO WILL BE TETHERED OR SECURED)
- ☐ NO EQUIPMENT WILL BE TRANSPORTED DURING HEC
- ☐ HEC SHORT HAUL OPERATIONS PLAN, DAILY MISSION
- ☐ INSERTION POINT AND AREA HAZARDS
- ☐ HEC ATTACH ZONE AND WAITING AREA
- ☐ EMERGENCY PROCEDURES; ENGINE FAILURE, TR FAILURE, HOOK FAILURE, LINE ENTANGLEMENT)
- ☐ NO CELL PHONE OR CAMERA USED DURING HEC

[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

22-02073 Request Summary



Requestor	Tyler J Irwin	Request Date	08/03/2022
LAN ID	TJI1	Work Type	Lift Work
Phone	(707) 449-5832	Lift Work Type	HEC -
Cell	(707) 684-9396		Non-Energized
LOB	Electric Transmission	For Contractor	Yes
	Line		MICHELS
Vendor	Guardian Helicopters		

Work Dates

08/15/2022 - 08/31/2022 BELL 407

Approver

Superintendent Pete M Dominguez (PXD1)

PXD1@PGE.COM

(C) (805) 459-6255

Scope of Work

FRESNO/MADERA
HELMS-GREGG #1 230 KV
CAP- NO
DISPATCH NOTIFICATIONS- NO

USFS/NATIONAL PARK TERRITORY- SIERRA NATION FOREST
APPROVAL RECEIVED- YES

THIRD PARTY- MICHELS
REQUESTOR- ARMANDO CEBALLOS 559-288-3594
FOREMAN- KEN FIELDS 920-204-4403
PGE PM- ALBERO MANCERO A9MR

SCOPE- HELICOPTER WILL PERFORM HEC TO BRING LINE WORKERS TO TOWER. THEY WILL PERFORM INSULATOR CHANGES AND MAINTENACE ON TOWERS. TRANSPORT TOOLING AND OTHER MATERIALS. HELICOPTERS WILL BE AT DIFFERENT LZ LOCATIONS THROUGH OUT JOB.

LZ- LZ 1 IS CLEARING IN FOREST. CAN FIT 2 HELICOPTERS AT LOCATION. APPROVAL RECIEVED. WAREHOUSE IN AREA ARE AWARE OF HELICOPTER USAGE.
LZ 2 LOCATED AT DEDICATED HELI PAD. STRUCTURES NEAR BY PAD. VERIFIED APPROVAL TO USE.
REMAINING LZS ARE LOCATED IN GRASS FIELDS WITH SOME TREES IN AREA. TRAFFIC MITIGATION WILL BE IN PLACE WHERE NEEDED
LZ DIAMETER VERIFIED FOR TYPE 3 AIRCRAFT- 75 FEET DIAMETER

WORK LOCATION(S)- STARTING WORK LOCATIONS ARE IN HIGH ELEVATION MOUNTAINOUS TERRAIN. AS THEY TRAVEL WEST ELEVATION DECREASES. NO OBSTRUCTIONS TO LISTED WORK LOCATIONS.

(3) TOTAL AIRCRAFT ONSITE.

DUST/ TRAFFIC MITIGATION TO BE PROVIDED BY CONTRACTOR.

Daily Information

22-02073 Request Summary

08/15/2022 - 08/31/2022

Asset Category: LIGHT

Asset Type: BELL 407

Locations

08:00 - LZ	LZ 1	37 00.56'N 119 00.94'W	<no headquarters>	<no county>
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Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ 2	36 57.65'N 119 10.50'W	<no headquarters>	<no county>	5250 ft
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Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ 3	36 57.67'N 119 12.96'W	<no headquarters>	<no county>	2085 ft
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Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ 4	36 56.51'N 119 21.00'W	<no headquarters>	<no county>	1500 ft
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Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ 5	36 56.36'N 119 27.35'W	<no headquarters>	<no county>	1500 ft
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Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ 6	36 57.59'N 119 37.06'W	<no headquarters>	<no county>	565 ft
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Dust/Snow Mitigation Plan: Surface is composed of low vegetative cover.

--- - Work Location

LZ 7	36 56.39'N 119 46.55'W	<no headquarters>	<no county>	395 ft
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22-02073 Request Summary

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ 8	36	<no	<no	355 ft
	55.45'N	headquarters>	county>	
	119			
	51.41'W			

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ 9	36	<no	<no	300 ft
	51.40'N	headquarters>	county>	
	119			
	55.12'W			

Dust/Snow Mitigation Plan: ---

--- - Work Location

20058 HELMS-GREGG #1 230 KV (WORK LOCATION START)	37	Line #:	<no	<no	8050
	01.72'N	002/017A	headquarters>	county>	ft
	118				
	59.82'W				

Dust/Snow Mitigation Plan: ---

--- - Work Location

20058 HELMS-GREGG #1 230 KV (MIDDLE WORK LOCATION)	36	Line #:	<no	<no	1490
	56.57'N	029/178	headquarters>	county>	ft
	036				
	56.57'W				

Dust/Snow Mitigation Plan: ---

--- - Work Location

20059 HELMS-GREGG #2 230 KV (WORK LOCATION END)	36	Line #:	<no	<no	310 ft
	51.23'N	060/320	headquarters>	county>	
	119				
	54.92'W				

Dust/Snow Mitigation Plan: ---

--- - Work Location

COMPLETE LIST OF WORK LOCATIONS IN ADDITIONAL COMMENTS	<no	<no
	lat/lon>	headquarters>

Dust/Snow Mitigation Plan: ---

Est. Use Hours	8.00	Vendor	Guardian Helicopters
Contract	PSPS 2 GUARDIAN (407)	Over Water	No
Fuel Truck	Yes	Cargo Weight	1600.0 lbs
Special Equipment	---	Billing Number	31533801 50%
Comments	37.02859 -118.996988 002/017A LZ 01		31551822 50%
	37.019926 -119.005789 002/024A LZ 01	Req. Notifications	---
	37.008316 -119.024144 004/034A LZ 01		
	37.007092 -119.026307 004/035A LZ 01		

22-02073 Request Summary

36.996686 -119.043533 005/044A LZ
01
36.995306 -119.051966 005/048A LZ
01
36.98814 -119.086119 008/063A LZ
01
36.987165 -119.090173 008/064A LZ
01
36.988402 -119.108809 009/069A LZ
02
36.985536 -119.119891 009/074A LZ
02
36.978359 -119.131551 010/078A LZ
02
36.97831 -119.13415 010/079A LZ
02
36.977397 -119.140261 011/081A LZ
02
36.964059 -119.16403 012/093A LZ
02
36.959914 -119.172123 013/098A LZ
02
36.961326 -119.204166 015/109A LZ
03
36.961626 -119.207278 015/110A LZ
03
36.96191 -119.210282 015/111A LZ
03
36.962234 -119.213715 015/112A LZ
03
36.965284 -119.224697 016/116 LZ
03
36.963461 -119.270968 019/129 LZ
03
36.961325 -119.280178 019/132 LZ
03
36.961952 -119.290009 020/136 LZ
03
36.960615 -119.296611 020/138 LZ
03
36.95508 -119.307073 021/142 LZ
03
36.953198 -119.310909 021/144 LZ
03
36.948415 -119.362376 024/158 LZ
04
36.942292 -119.445274 029/177 LZ
05
36.942829 -119.451899 029/178 LZ
05
36.943502 -119.458293 029/180 LZ
05
36.942606 -119.470292 030/182 LZ
05
36.935644 -119.512896 032/192 LZ
06

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36.943853 -119.544972 034/201 LZ
06
36.949268 -119.57935 036/209 LZ 06
36.948256 -119.584875 037/211 LZ
06
36.947979 -119.586386 037/212 LZ
06
36.947361 -119.58974 037/213 LZ 06
36.944672 -119.61543 038/219 LZ 06
36.943832 -119.665036 041/230 LZ
06
36.944329 -119.693034 043/237 LZ
06
36.942829 -119.751379 046/252 LZ
07
36.943046 -119.755642 046/253 LZ
07
36.943233 -119.759313 046/254 LZ
07
36.943348 -119.778657 047/260 LZ
07
36.939253 -119.829019 050/274 LZ
09
36.934744 -119.844358 051/278 LZ
09
36.929576 -119.857472 052/282 LZ
09
36.919816 -119.867204 053/288 LZ
09
36.916456 -119.913112 056/300 LZ
09
36.907326 -119.913204 056/303 LZ
09
36.871191 -119.913563 059/314 LZ
09
36.862693 -119.914242 059/317 LZ
09
36.853885 -119.9154 060/320 LZ 09

Talk About #	151.76	Talk Group	151.76	Talk Radio #	151.76
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22-02073 - August 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	16 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	17 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	18 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	19 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	20 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W
21 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	22 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	23 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	24 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	25 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	26 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	27 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W
28 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	29 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	30 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	31 08:00 -16:00 BELL 407 LZ 1 37 00.56'N 119 00.94'W	1	2	3
4	5	6	7	8	9	10



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: PG&E HEC INSULATOR CARGO WORK ORDER #: 22-02073

ADDRESS: HWY 99, 41, 168 CITY: FRESNO STATE: CA

SEE ATTACHED FLIGHT REQUEST AND KMZ FILE

CONTACT REQUESTOR: ARMANDO CEBALLOS PHONE#: **559-288-3594**

CONTACT FORMAN: KEN FIELDS PHONE#: **920-204-4403**

PILOT'S NAME(S)

- | | |
|--------------------------|------------------------|
| 1. <u>MICHAEL KLINK</u> | CERT#: <u>3018828</u> |
| 2. <u>BUCKEY MACKAY</u> | CERT #: <u>2778051</u> |
| 3. <u>IAN GOODALE</u> | CERT#: <u>3741973</u> |
| 4. <u>ROSS GOULET</u> | CERT#: <u>3396777</u> |
| 5. <u>TREVOR NEEDHAM</u> | CERT#: <u>3597668</u> |

TYPE OF AIRCRAFT:

BELL 407 N# N407GH A/C CATEGORY: STANDARD

BELL 407 N# N111GH A/C CATEGORY: STANDARD

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 INSULATORS LOAD: EXT CL B TYPE OF ITEM LIFTING: ☐ AERODYNAMIC ☒ NON-AERODYNAMIC LONG LINE: (NO) _____ (YES) XXX LESS 200 FT (LENGTH) OPERATIONAL ALTITUDE: < 250 AGL STREET CLOSING: _____ (NO) XX (YES)

DATE AND TIMES OPERATION WILL BEGIN AND TERMINATE:

FLIGHT DATES	TIME BEGIN	TIME END	TODAY'S DATE
8-15-2022 THRU	SUNRISE	SUNSET	8-3-2022
8-31-2022	SUNRISE	SUNSET	8-3-2022
<u>AGENCY NAME:</u>	<u>PHONE#:</u>	<u>PERSON NOTIFIED:</u>	<u>DATE:</u>
FRESNO POLICE DEPARTMENT	559-621-6500	NORTHWEST	NOTIFIED
FRESNO POLICE DEPARTMENT	559-621-6400	NORTHEAST	NOTIFIED
FRESNO FIRE DEPARTMENT	559-621-4199	STATION 2	NOTIFIED

Evacuation

☒ No Evacuated Structures

☐ Evacuated Structures

Crowd Control

☒ Operator

☒ Contractor

Street Closure

☐ Yes ☒ No

☒ Contractor

☐ Operator



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

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
REMOTE NO EVACUATION	VACANT DURING OPS	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.

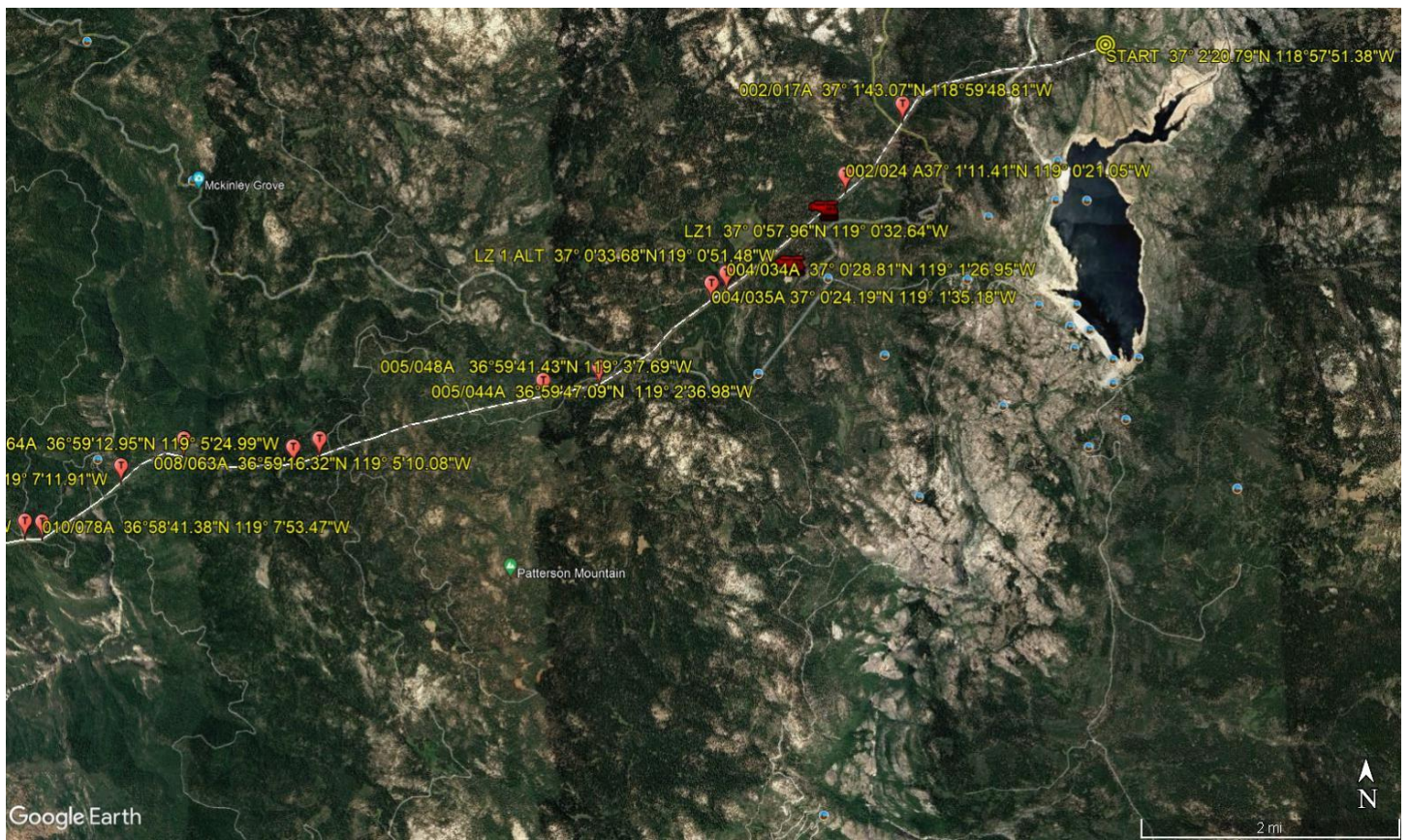
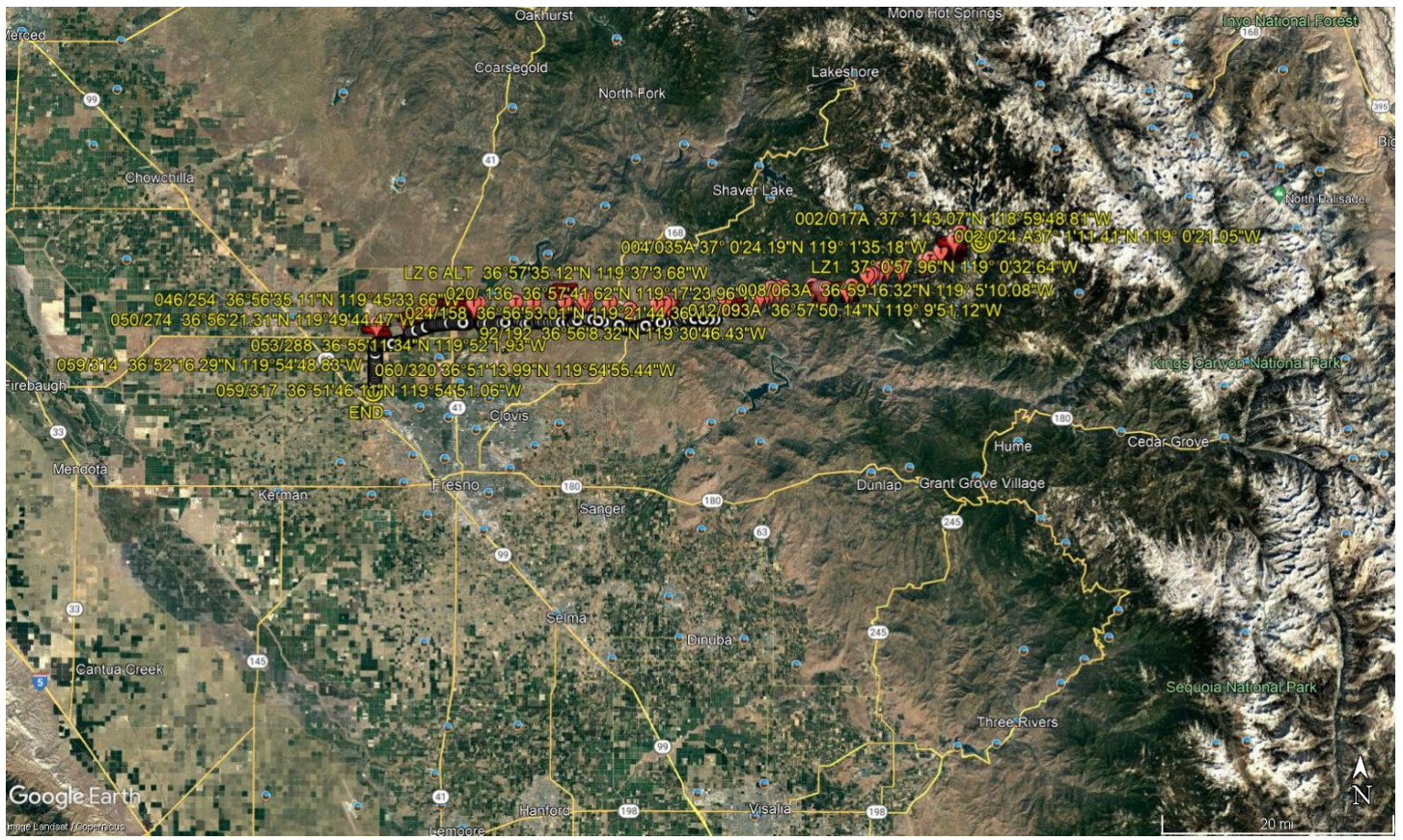
THE OPERATIONS AREA IS WITHIN THE SECURED AREA. ALL ESSENTIAL CREW WITHIN THE OPERATIONS AREA WILL NOT BE INVOLVED IN TAKING PICTURES OR ANY OTHER USE OF CELL PHONES.

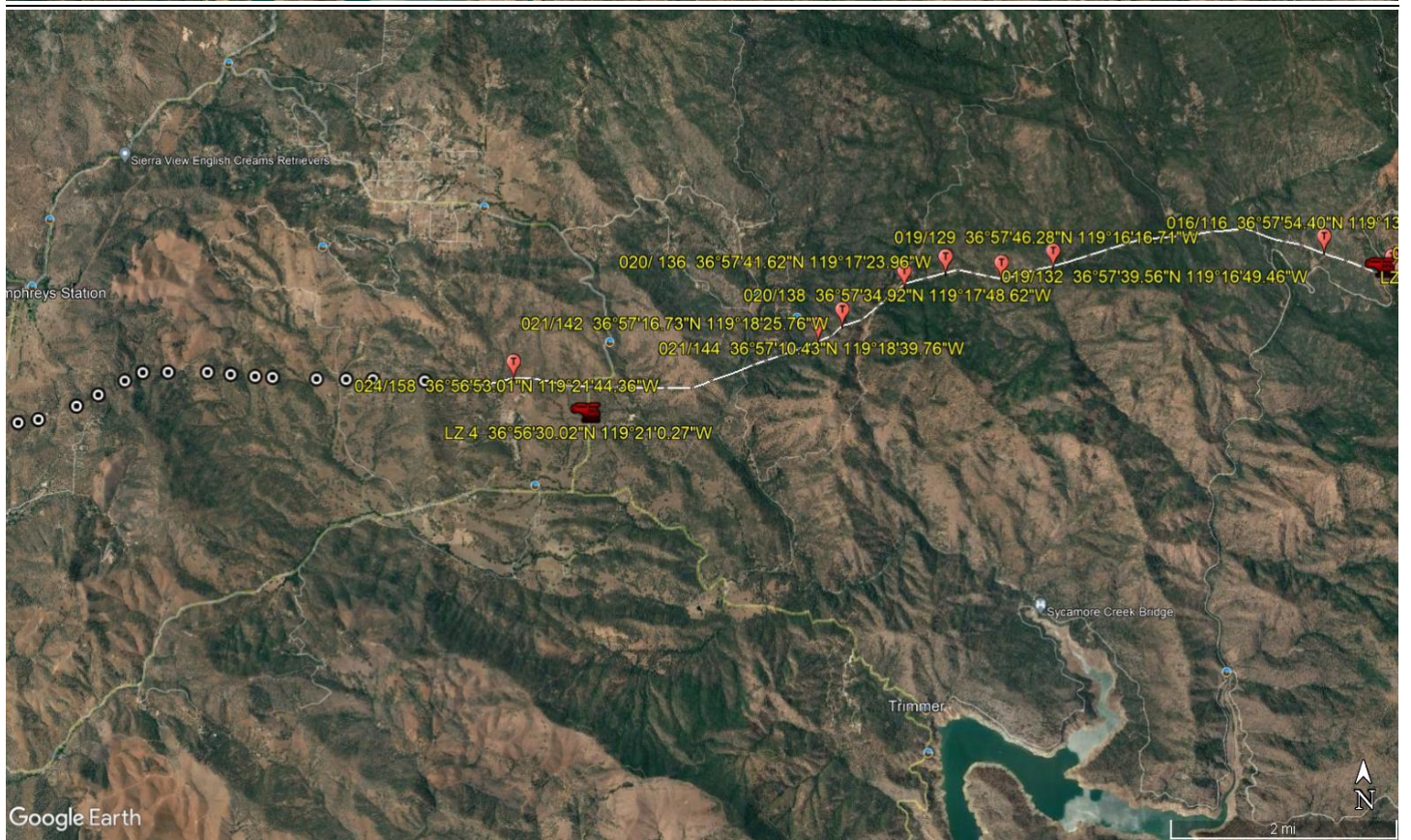
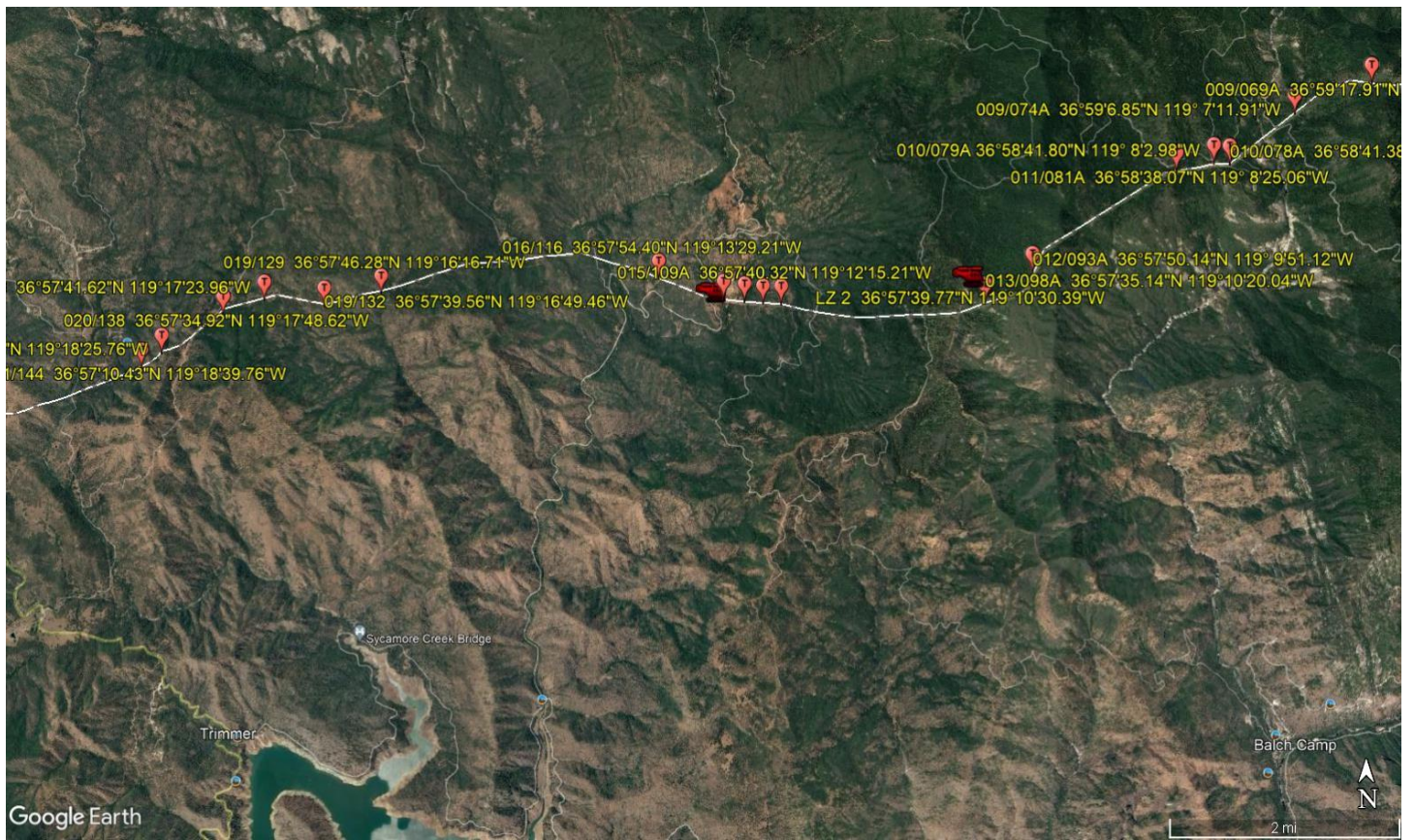
PRIOR TO BEGINNING OPERATIONS, A TAILBOARD SAFETY BRIEF WILL BE CONDUCTED.

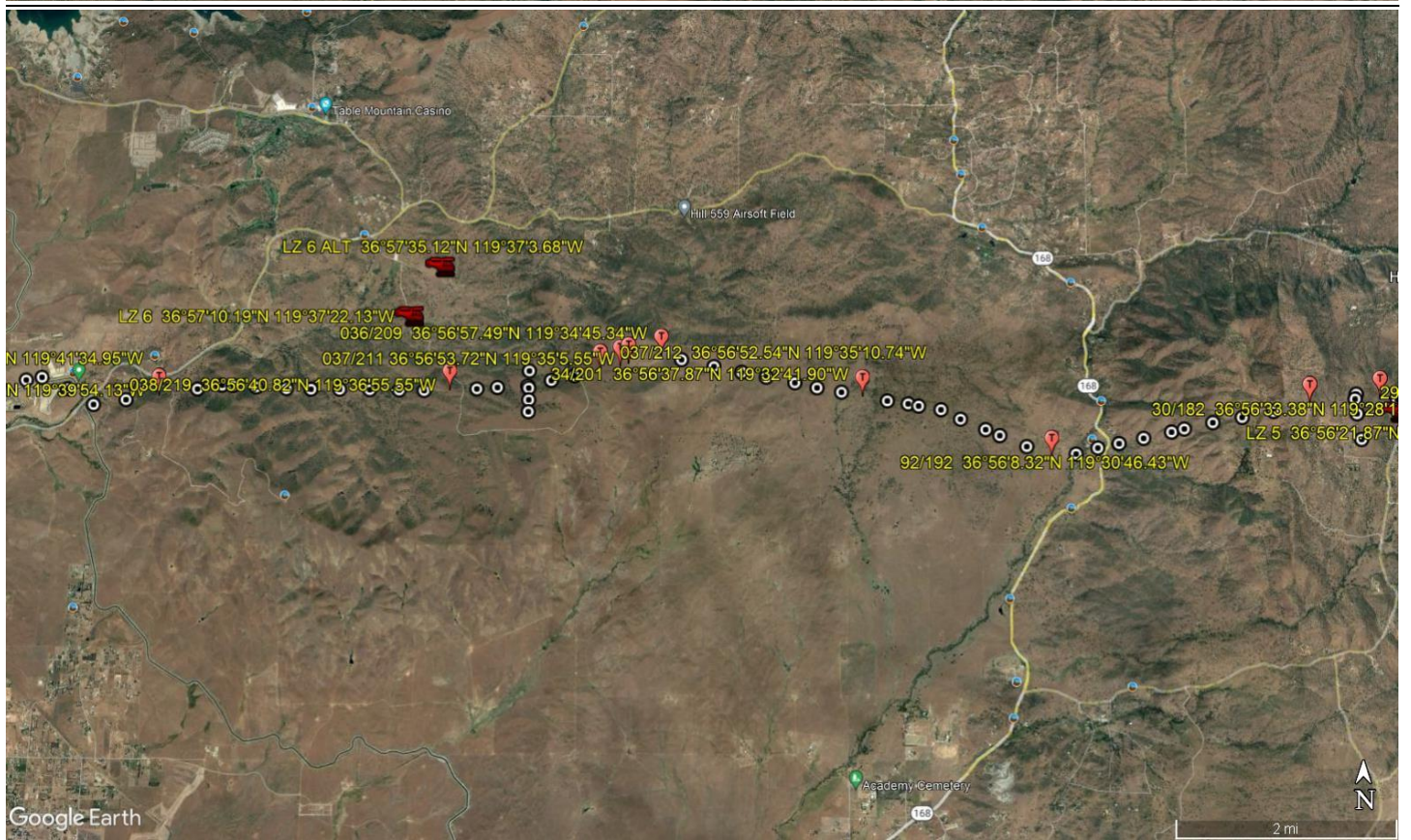
1. HELICOPTER WILL LAND AT THE LZ STAGING AREA TO CONDUCT A TAILBOARD AND HEC TRAINING
2. WATER TRUCK REQUIRED AT LZ STAGING AREA
3. VARIOUS ROADS WILL EXPERIENCE INTERMITTANT ROAD CLOSURES
4. REMOTE AREA NO EVACUATIONS

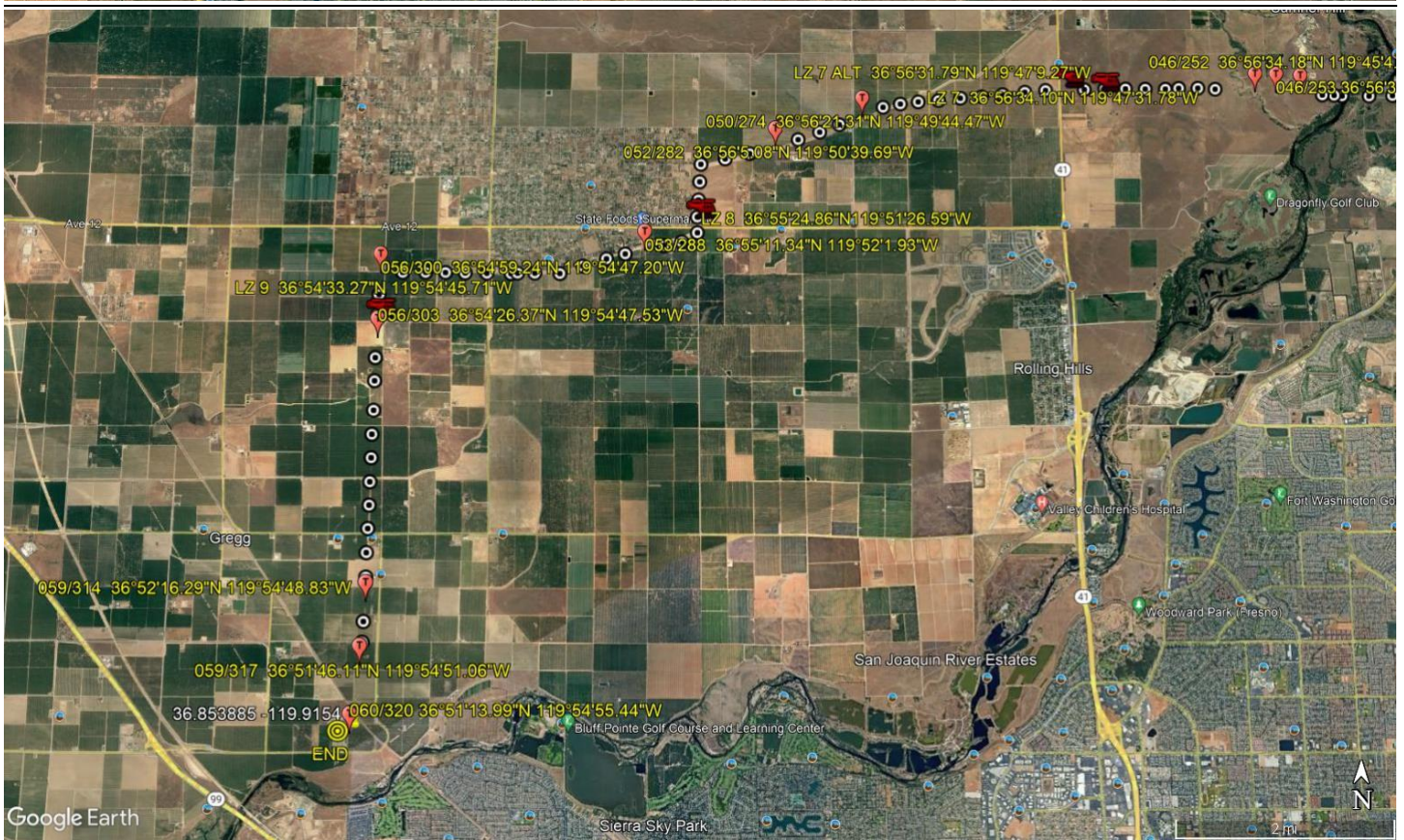
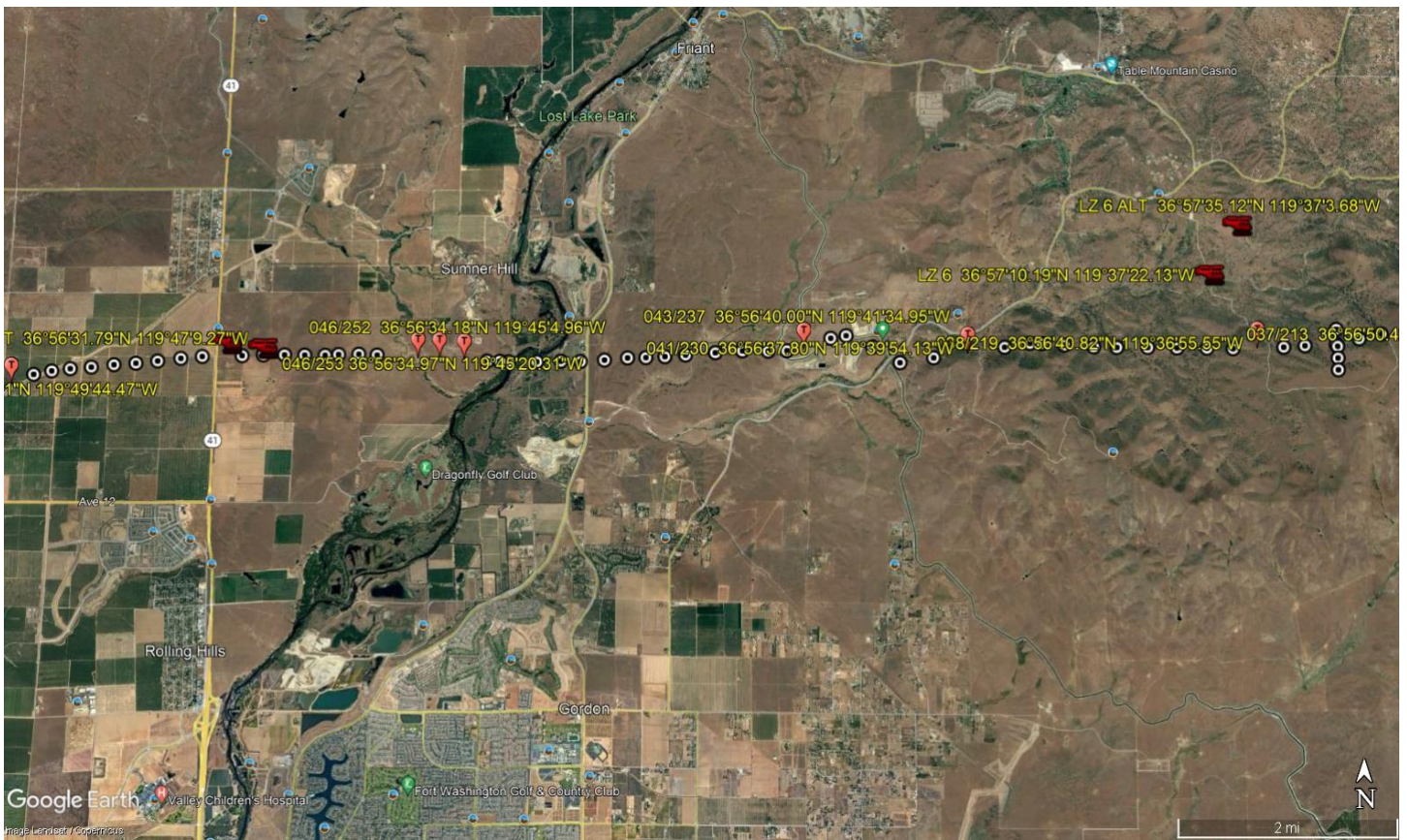
LEGEND

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 = (UB)	UNOCCUPIED BUILDING TOP FLOOR = (UBT1)	









Jeffrey M. Teubner

8-5-2022
DATE OF SUBMISSION

COMPANY OFFICIAL / TITLE
Jeffrey M. Teubner Flight Coordinator