

# ESJ U.S.

## Energia Sierra Juárez Gen-Tie Line Alternative Project San Diego County, California

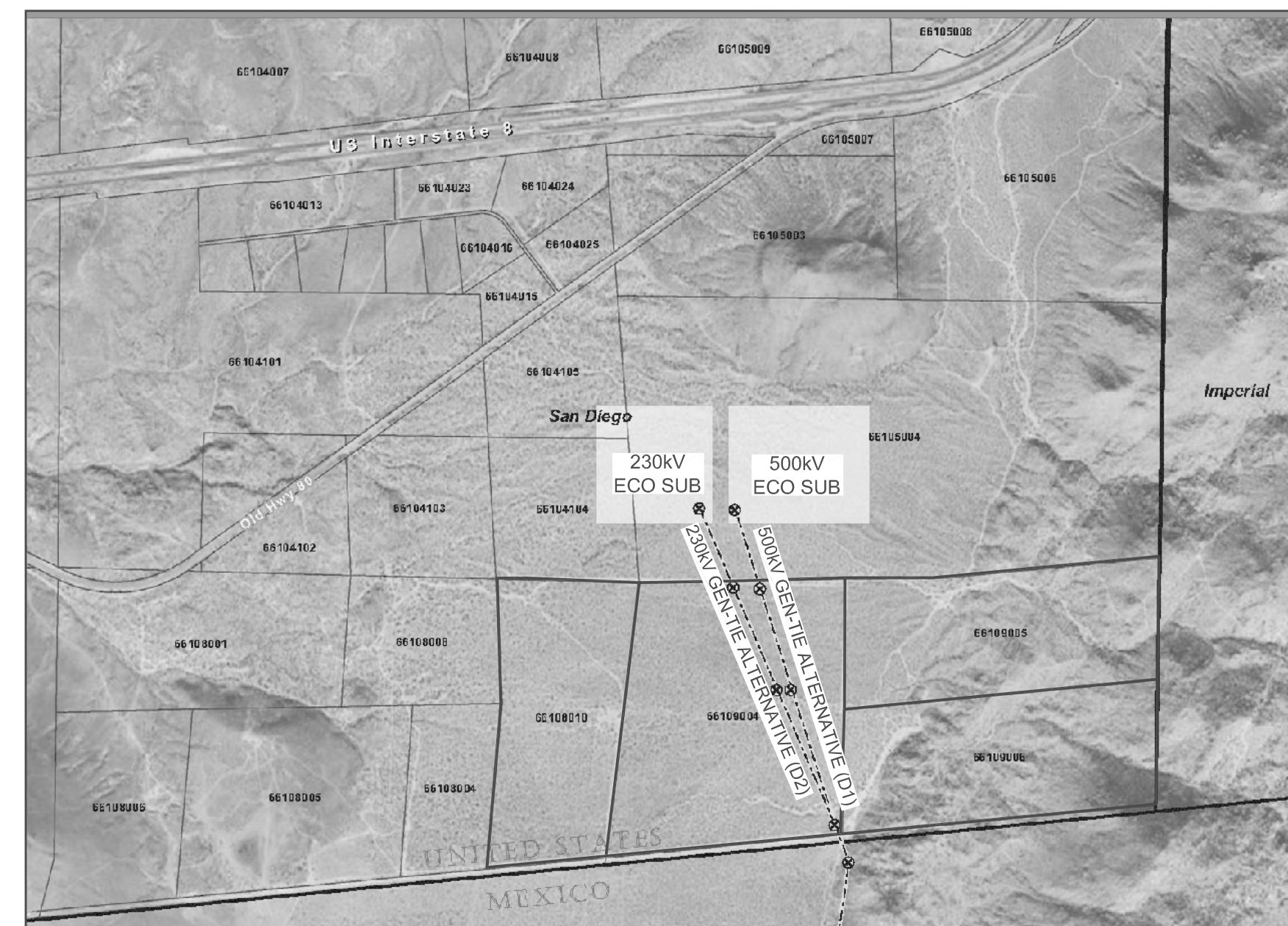
May 2010

52573

### Preliminary Plot Plans

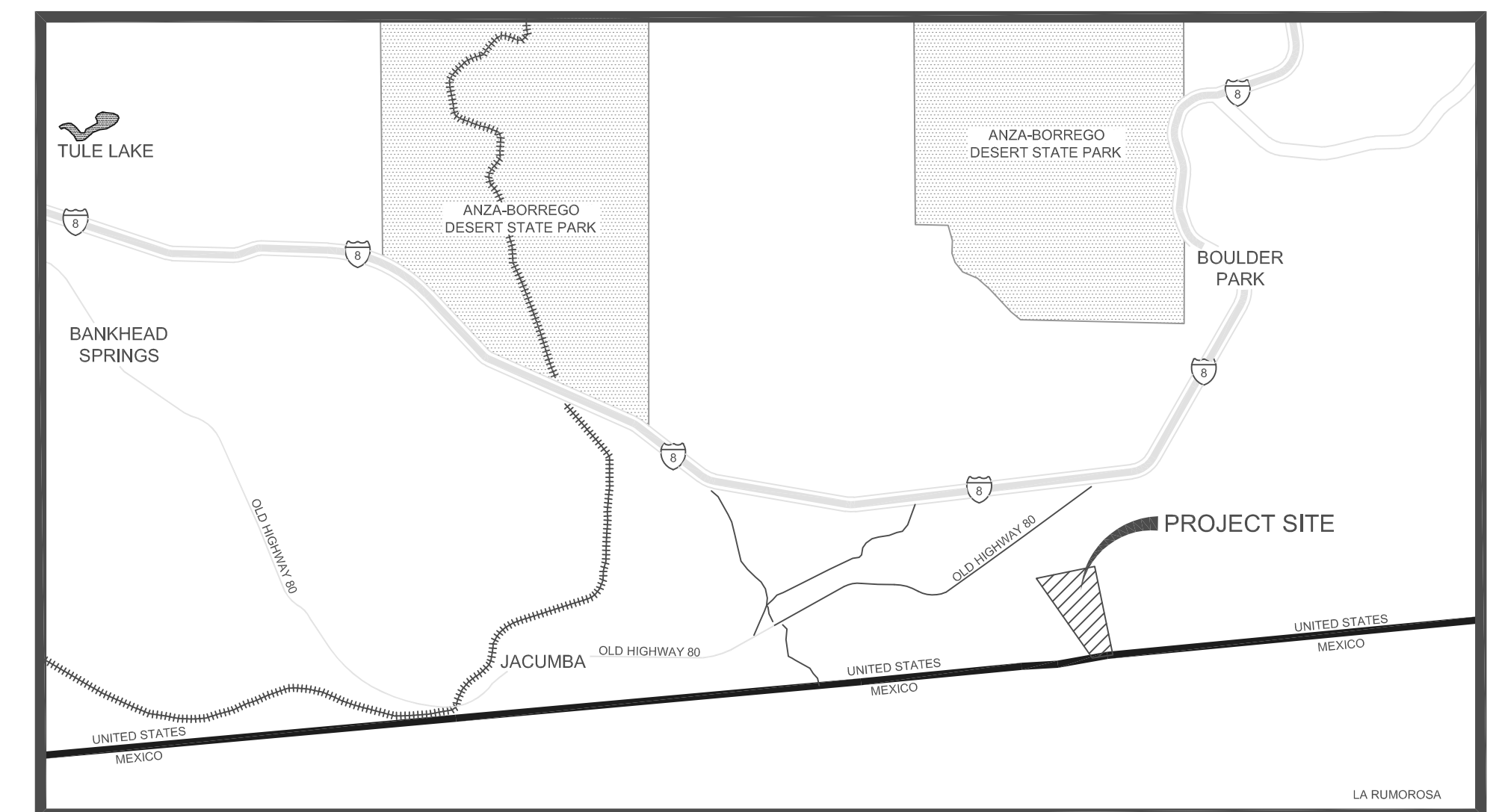
#### DRAWING LIST

| DWG. NO. | REVISION | TITLE   |
|----------|----------|---|
| P11      | -        | COVER-INDEX   |
| P12      | -        | OVERALL LAYOUT SHEET                                      |
| P13      | -        | 230KV STEEL LATTICE TOWER PLAN & PROFILE                  |
| P14      | -        | 230KV STEEL MONOPOLE PLAN & PROFILE                       |
| P15      | -        | 230KV ALTERNATIVE (D2) PRELIMINARY PLOT PLAN SHEET 1 OF 2 |
| P16      | -        | 230KV ALTERNATIVE (D2) PRELIMINARY PLOT PLAN SHEET 2 OF 2 |
| P17      | -        | 500KV STEEL LATTICE TOWER PLAN & PROFILE                  |
| P18      | -        | 500KV STEEL MONOPOLE PLAN & PROFILE                       |
| P19      | -        | 500KV ALTERNATIVE (D1) PRELIMINARY PLOT PLAN SHEET 1 OF 2 |
| P20      | -        | 500KV ALTERNATIVE (D1) PRELIMINARY PLOT PLAN SHEET 2 OF 2 |



**OWNER:** ENERGIA SIERRA JUAREZ U.S. TRANSMISSION LLC. (ESJ U.S.)  
101 ASH STREET  
HQ #14  
SAN DIEGO, CA 92101  
(619) 696-2121

**ENGINEER:** BURNS & MCDONNELL  
9400 WARD PARKWAY  
KANSAS CITY, MO 64114  
(816) 333-9400



VICINITY MAP  
N.T.S.

**PROJECT PARCEL #'s:**

APN 661-090-04  
APN 661-090-05  
APN 661-090-06

**ECO SUBSTATION PARCEL #'s:**

APN 661-050-04  
APN 661-041-04  
APN 661-041-05

**ACCESS PARCEL #'s:**

APN 661-041-03  
APN 661-041-02  
APN 661-080-08  
APN 661-080-10

**ACCEPTABLE CONDUCTOR CONFIGURATIONS**

|                                   |                                 |
|-----------------------------------|---------------------------------|
| 230 kV ALTERNATIVE                | 500 kV ALTERNATIVE              |
| 2 CONDUCTOR 2156 kcmil BLUEBIRD   | 2-CONDUCTOR 2156 kcmil BLUEBIRD |
| 2 CONDUCTOR 1113 kcmil FINCH/ACSS | 3-CONDUCTOR 795 kcmil DRAKE     |

**PRELIMINARY - NOT FOR CONSTRUCTION**

**NOTE:**  
DEPICTION OF SDG&E'S ECO SUBSTATION IS APPROXIMATE AND SUBJECT TO FINAL DESIGN BY SDG&E.

**NOTE:**  
THESE REVISED PLANS ARE BASED ON THE ECO SUBSTATION ALTERNATIVE LOCATIONS. THERE ARE TWO SEPERATE GEN-TIE ALTERNATIVES SHOWN WITHIN THESE PLANS, A 230KV ALTERNATIVE AND A 500KV ALTERNATIVE. ONLY ONE OF THE TWO OPTIONS IS TO BE CONSTRUCTED UNDER THIS APPLICATION, BUT THE FINAL ALTERNATIVE IS YET TO BE DETERMINED. FUTURE PLANS WILL BE REVISED TO ONLY INCLUDE THE ALTERNATIVE THAT IS TO BE CONSTRUCTED.



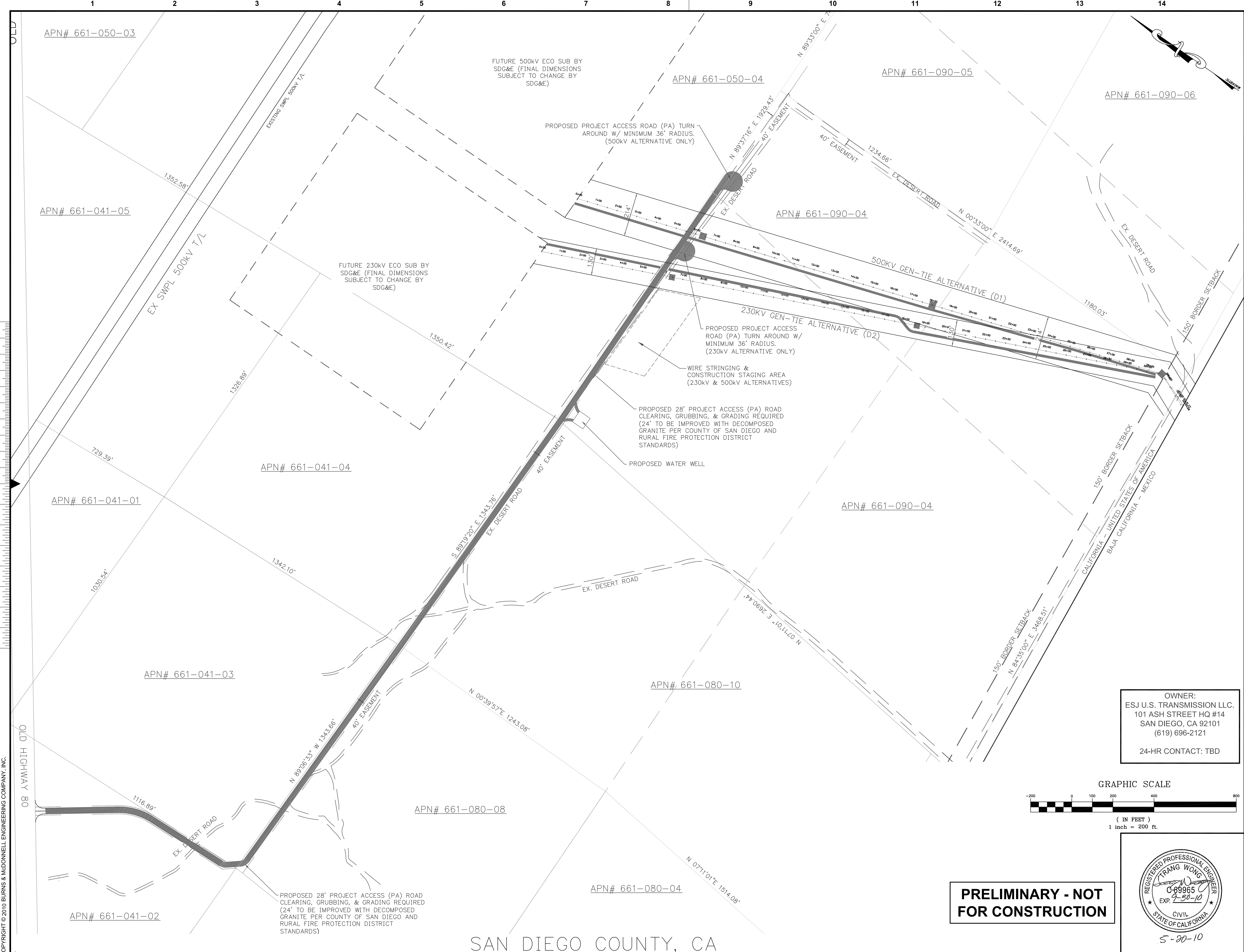
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| no. | date | by | ckd | description |
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**ESJ U.S. Gen-Tie Line Alternative Project**  
MUP 09-008  
KIVA 09-0107420

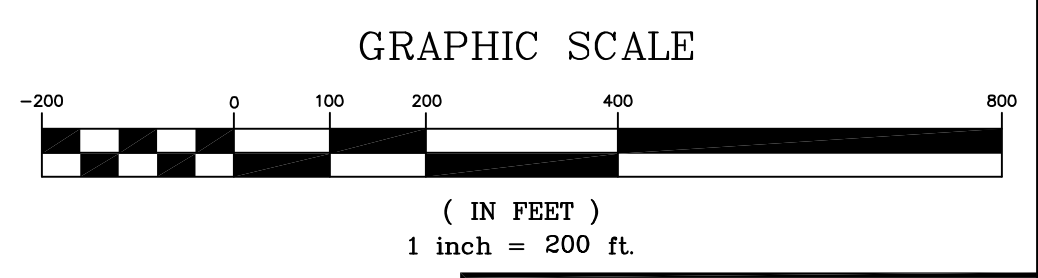
**P11**



| no. | date | by | ckd | description |
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|     |      |    |     |             |

Scale For Microlithing  
Millimeters  
Inches

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24-HR CONTACT: TBD



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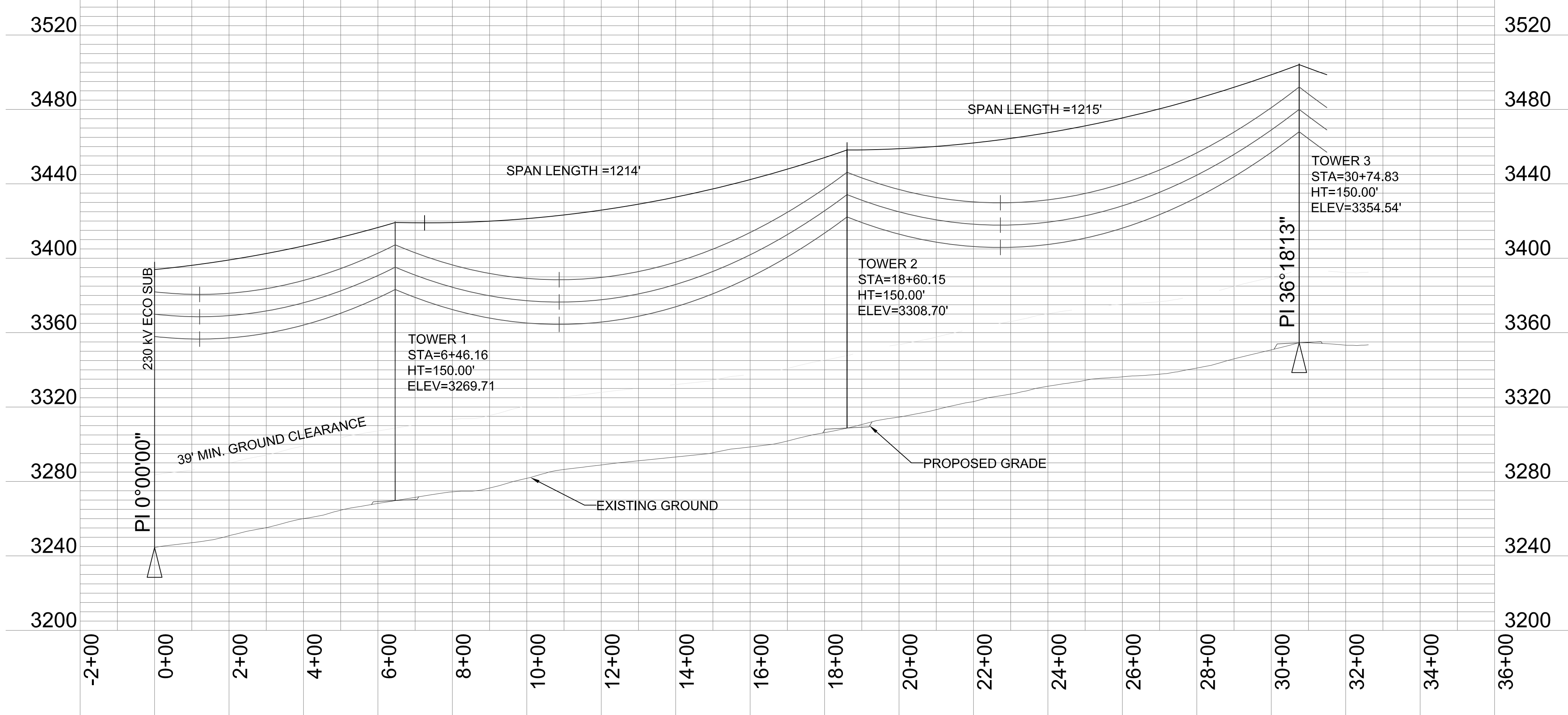
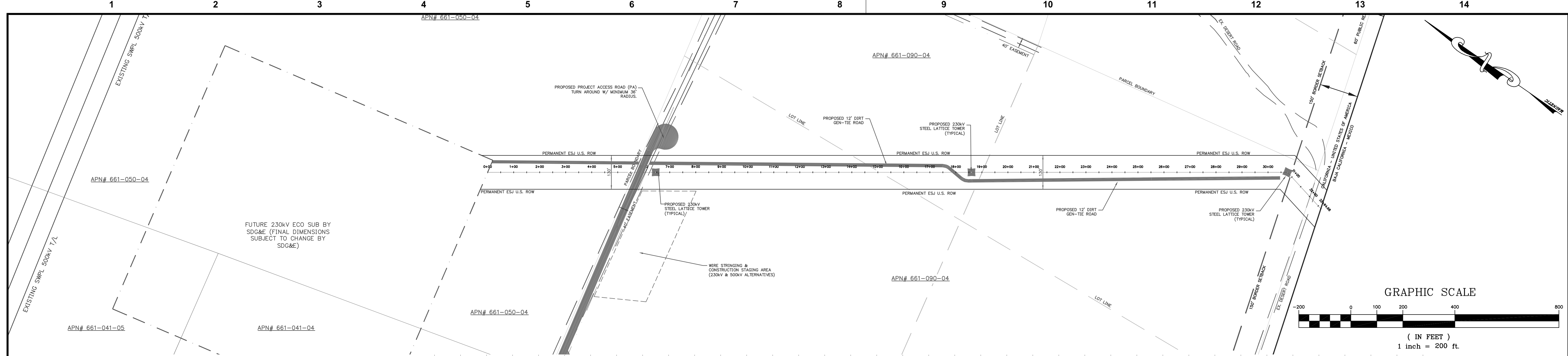
|                       |                       |
|-----------------------|-----------------------|
| date<br>MAY 14, 2010  | detailed<br>J. KANITZ |
| designed<br>J. KANITZ | checked<br>J. STAHLAK |

MUP 09-008  
KIVA 09-0107420

ESJ U.S.  
230KV & 500KV GEN-TIE LINE ALTERNATIVES (D2 & D1)  
OVERALL LAYOUT PLAN

|                               |           |
|-------------------------------|-----------|
| project<br>52573              | contract  |
| drawing<br><b>P12</b>         | rev.<br>- |
| sheet<br>12                   | of<br>20  |
| sheets                        |           |
| file ESJ-BASE14 ALT 3 & 4.DWG |           |

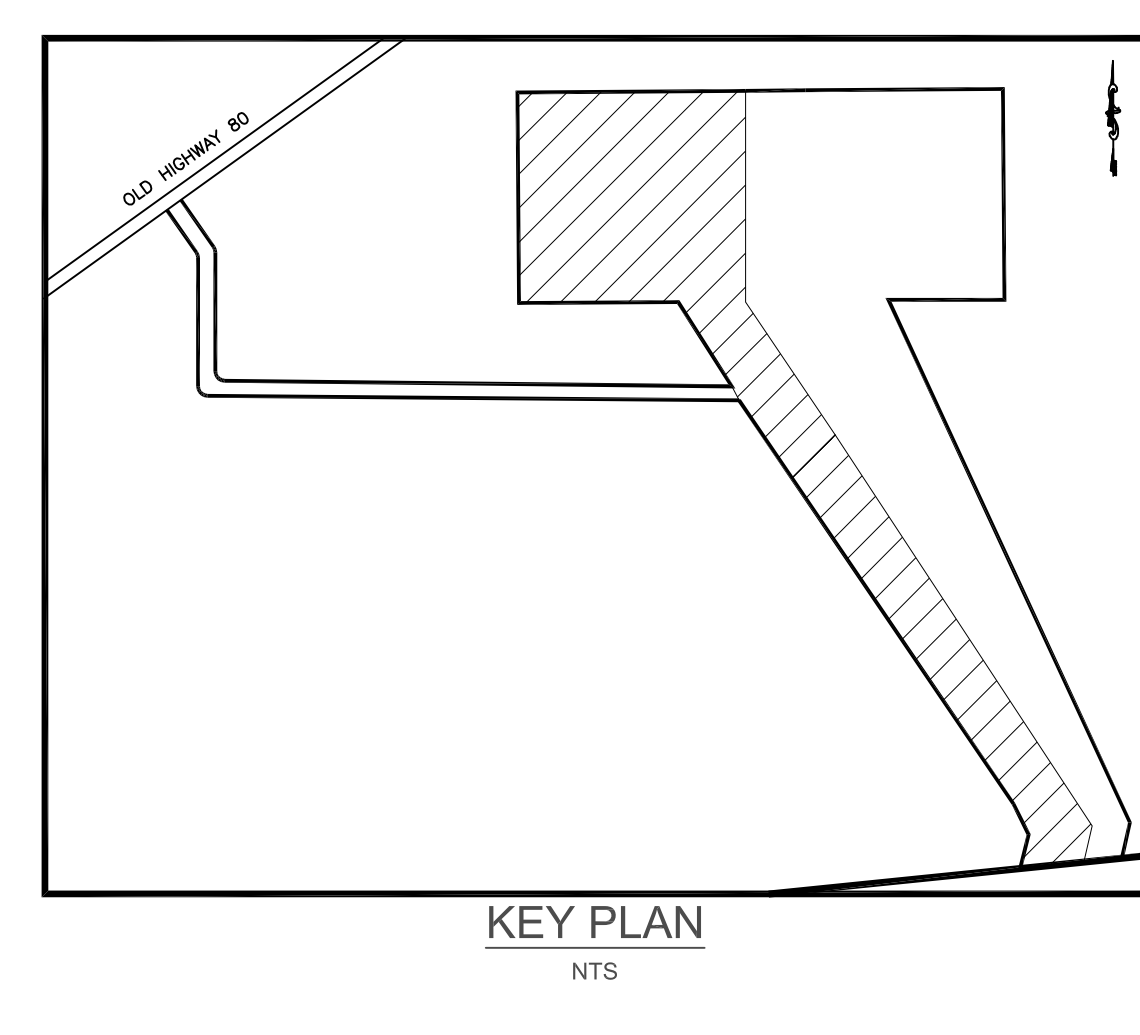
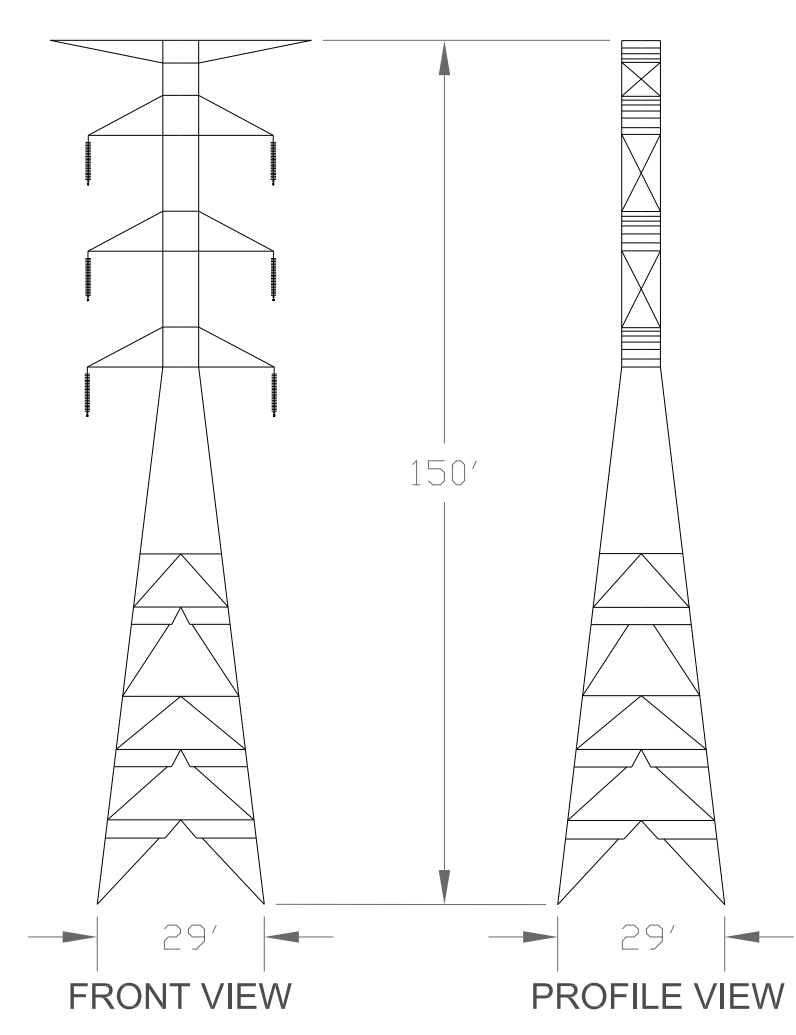
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### 230 kV LATTICE TOWER PROFILE

SCALE: 1"=200' HORIZONTAL  
1"=40' VERTICAL

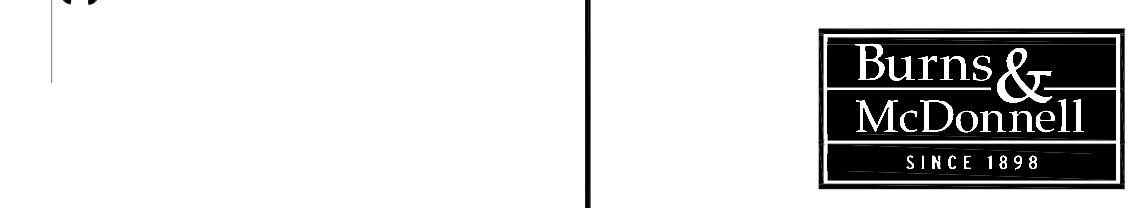
TYPICAL 230KV STEEL LATTICE TOWER



#### LEGEND

- PARCEL BOUNDARY LINE
- EASEMENT LINE
- FUTURE SUBSTATION BOUNDARY
- EXISTING DESERT ROAD
- 28' PROJECT ACCESS (PA) ROAD
- 12' PROPOSED GEN-TIE ROAD
- PROPOSED 230KV STEEL LATTICE TOWER

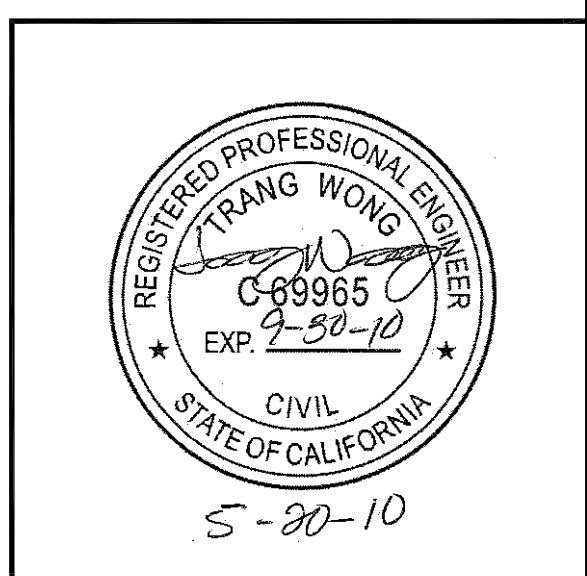
**PRELIMINARY - NOT FOR CONSTRUCTION**



|          |              |          |             |
|----------|--------------|----------|-------------|
| date     | MAY 14, 2010 | detailed | J. KANITZ   |
| designed | J. KANITZ    | checked  | J. STAHULAK |

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24-HR CONTACT: TBD

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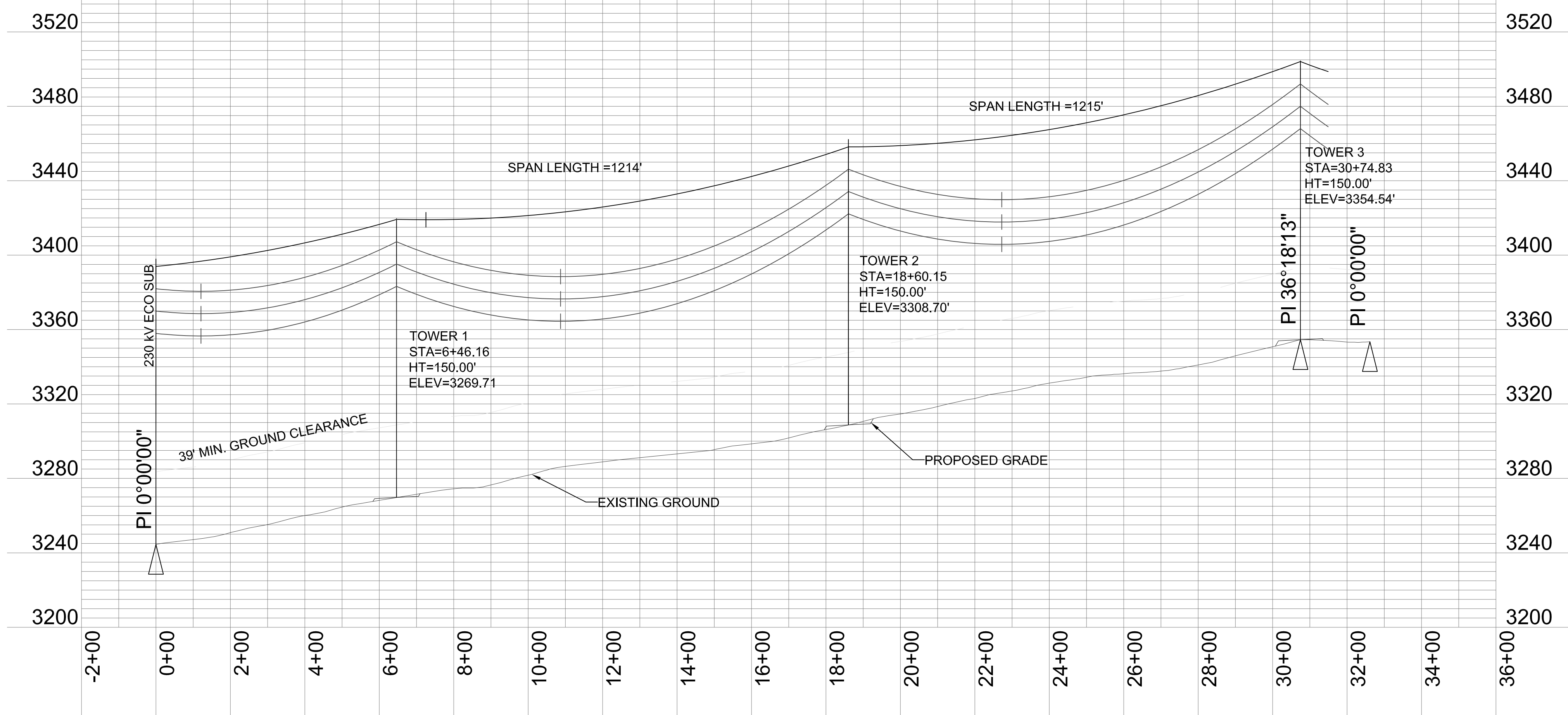
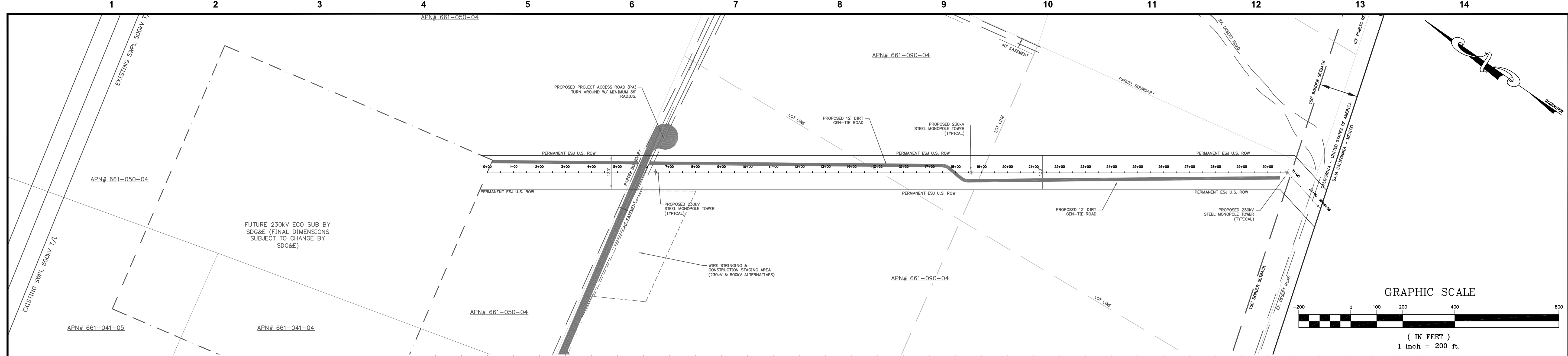


ESJ U.S.  
230 kV GEN-TIE LINE ALTERNATIVE (D2)  
LATTICE TOWER PLAN/PROFILE

|                               |            |          |           |
|-------------------------------|------------|----------|-----------|
| project                       | 52573      | contract |           |
| drawing                       | <b>P13</b> | rev.     |           |
| sheet                         | 13         | of       | 20 sheets |
| file ESJ-BASE14 ALT 3 & 4.DWG |            |          |           |

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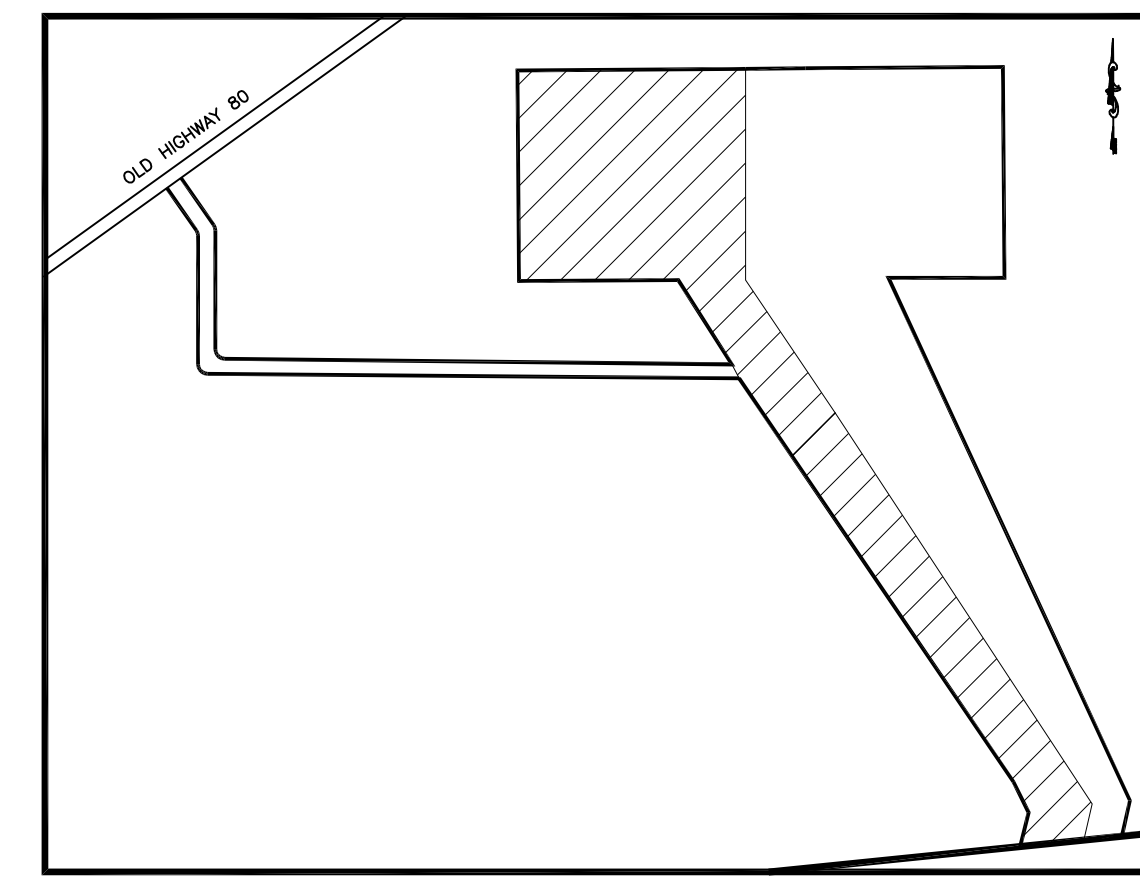
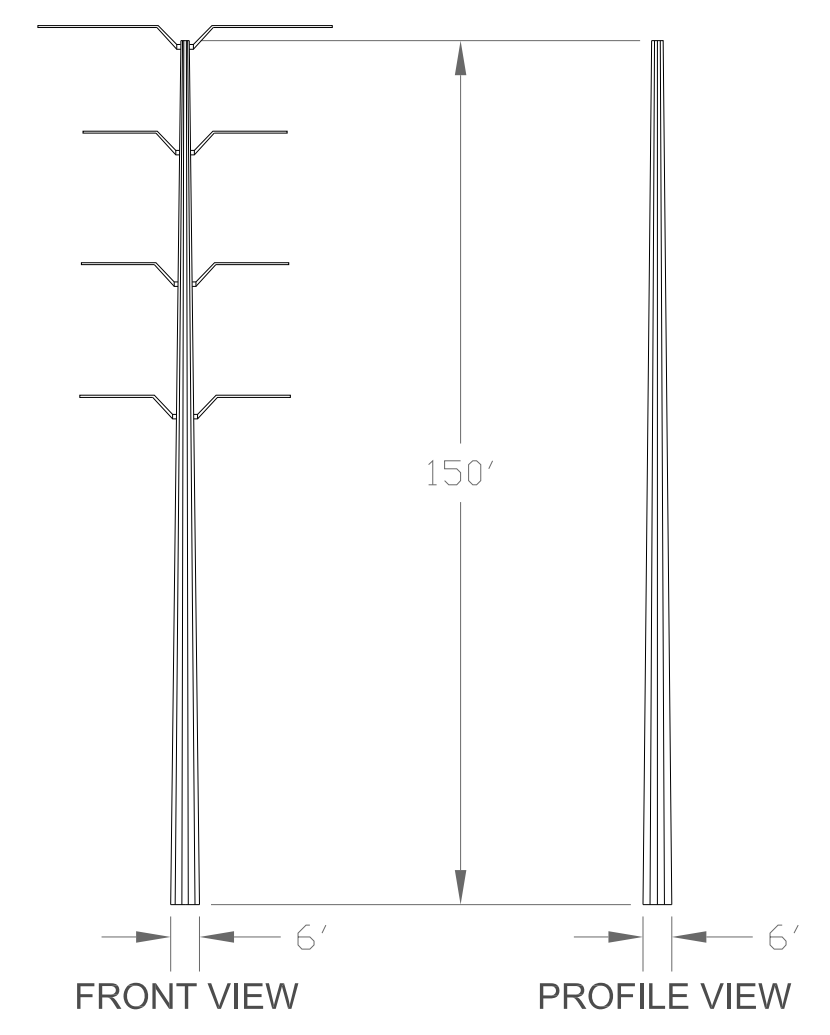
### 230 kV MONOPOLE PROFILE

SCALE: 1"=200' HORIZONTAL  
1"=40' VERTICAL

#### LEGEND

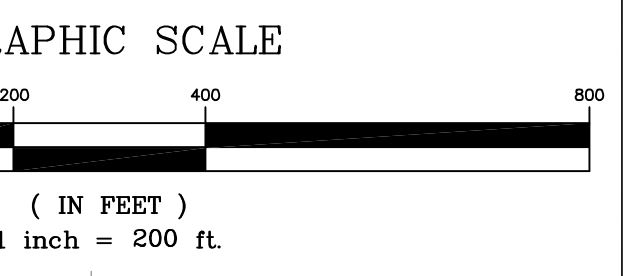
- PROPERTY BOUNDARY LINE
- EASEMENT LINE
- FUTURE SUBSTATION BOUNDARY
- EXISTING DESERT ROAD
- 28' PROJECT ACCESS (PA) ROAD
- 12' PROPOSED GEN-TIE ROAD
- PROPOSED 230KV STEEL MONO-POLE

#### TYPICAL 230KV STEEL MONOPOLE



KEY PLAN  
NTS

**PRELIMINARY - NOT FOR CONSTRUCTION**



Scale For Microfilming  
Millimeters  
Inches

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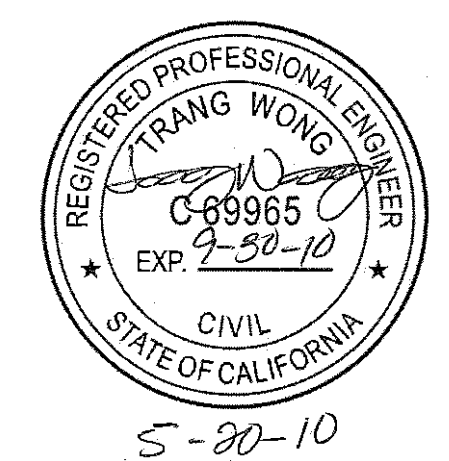
| no. | date | by | ckd | description |
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|                       |                       |
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| date<br>MAY 14, 2010  | detailed<br>J. KANITZ |
| designed<br>J. KANITZ | checked<br>J. STAHLAK |

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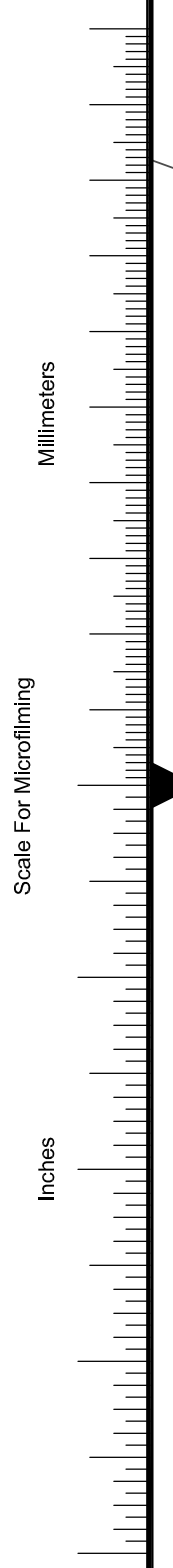
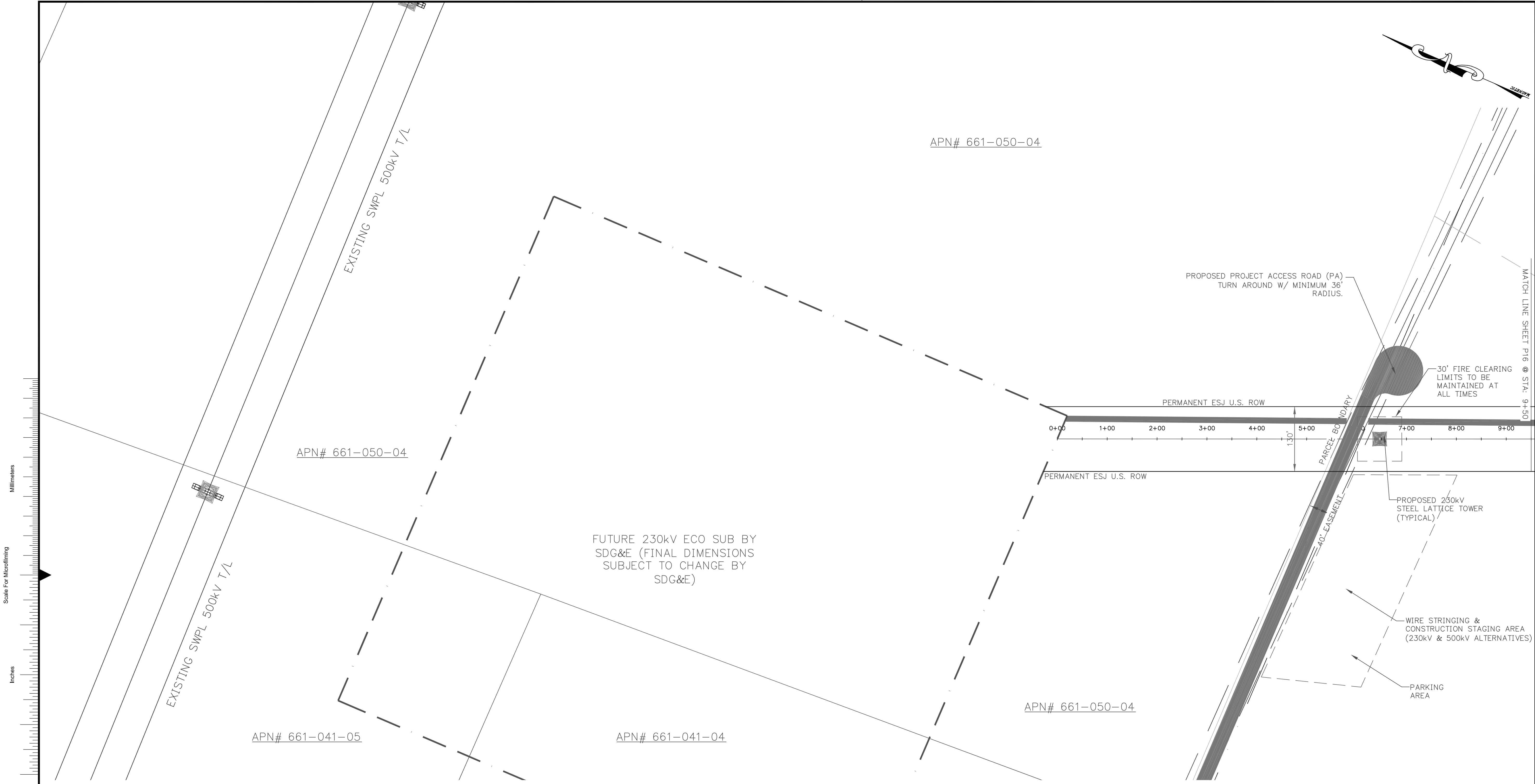


ESJ U.S.  
230 kV GEN-TIE LINE ALTERNATIVE (D2)  
MONOPOLE PLAN/PROFILE

|                               |           |
|-------------------------------|-----------|
| project<br>52573              | contract  |
| drawing<br><b>P14</b>         | rev.<br>- |
| sheet<br>14                   | of<br>20  |
| file ESJ-BASE14 ALT 3 & 4.DWG |           |

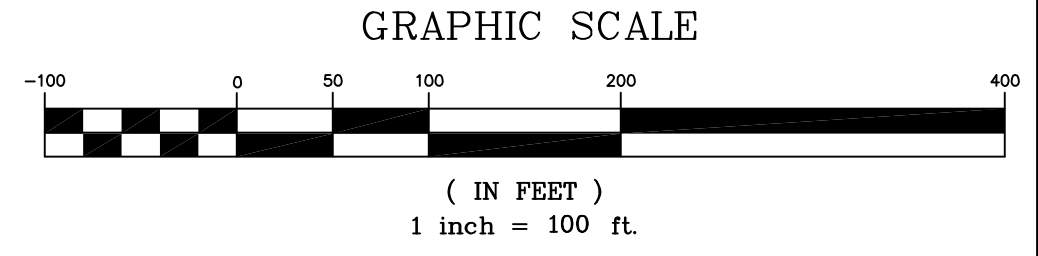
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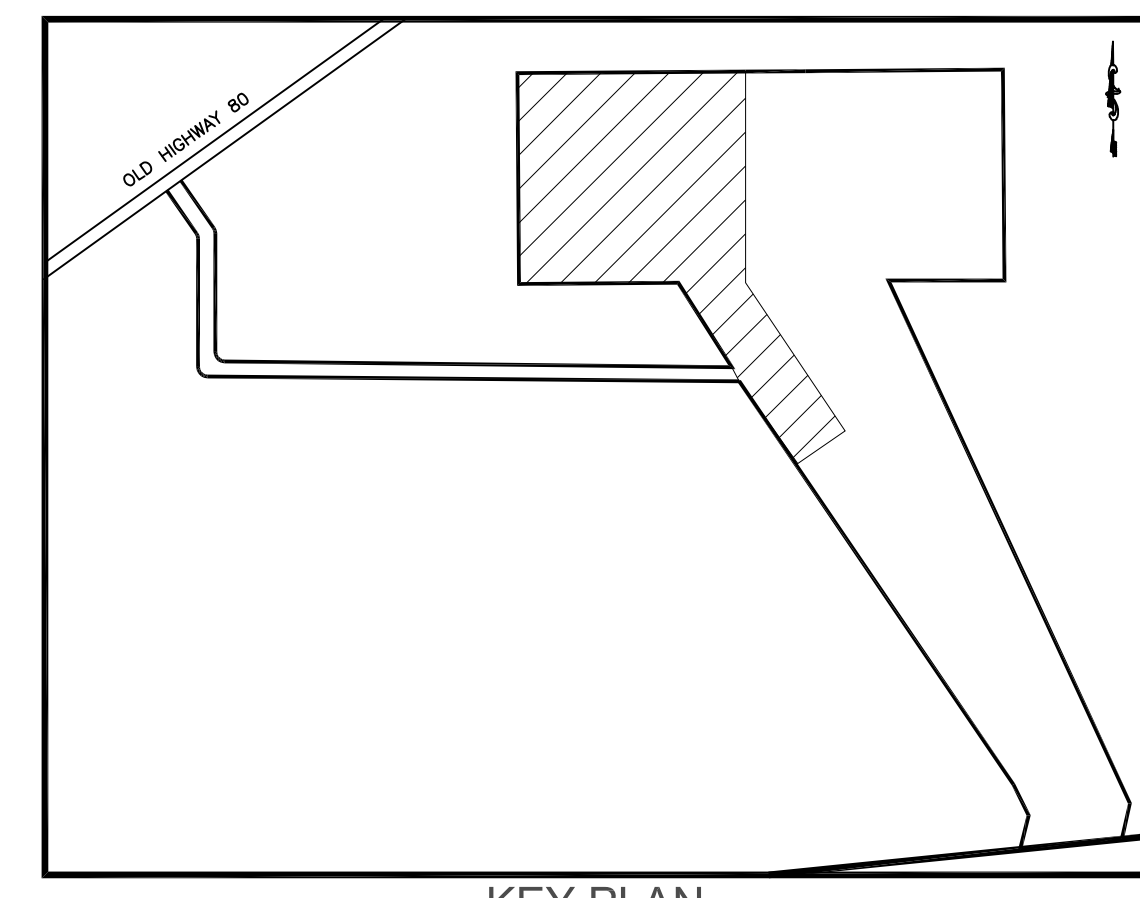
SAN DIEGO COUNTY, CA

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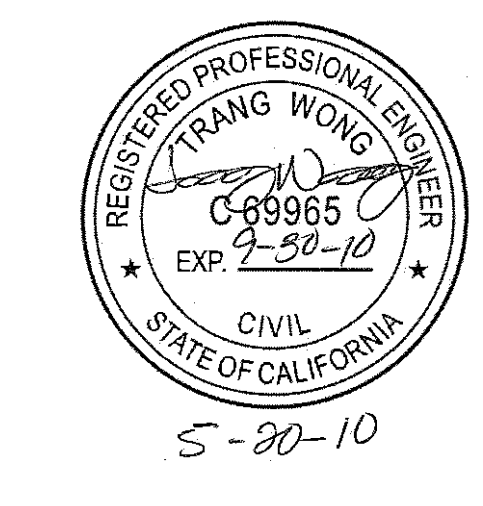
**LEGEND**

- PROPERTY BOUNDARY LINE
- EASEMENT LINE
- FUTURE SUBSTATION BOUNDARY
- EXISTING DESERT ROAD
- 28' PROJECT ACCESS (PA) ROAD
- 12' PROPOSED GEN-TIE ROAD
- PROPOSED 230kV STEEL LATTICE TOWER
- PROPOSED 230kV STEEL MONO-POLE



KEY PLAN  
NTS

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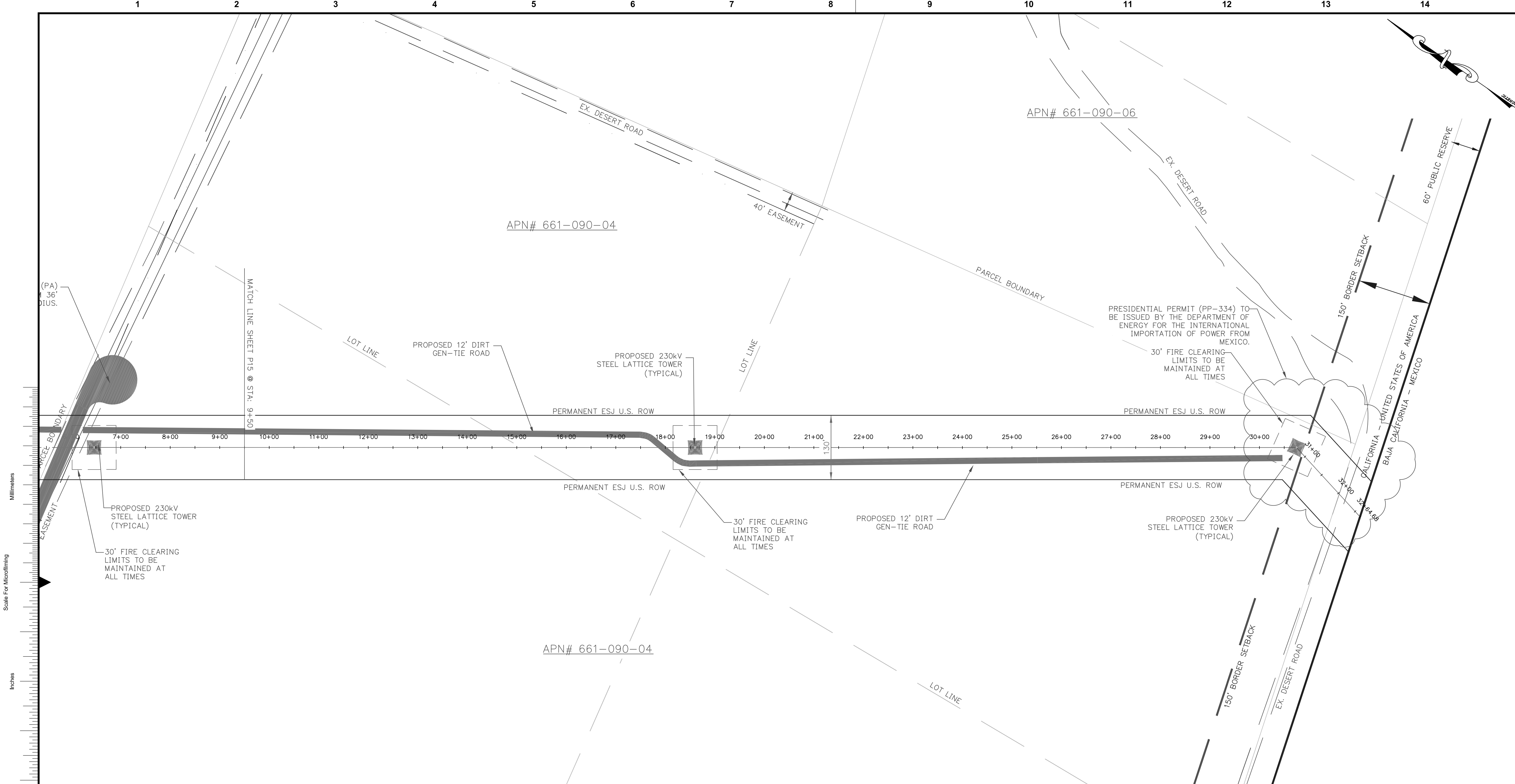


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|-------------------------------|-----------------------|
| date<br>MAY 14, 2010          | detailed<br>J. KANITZ |
| designed<br>J. KANITZ         | checked<br>J. STAHLAK |
| MUP 09-008<br>KIVA 09-0107420 |                       |

|   |              |
|---|--------------|
| <b>ESJ U.S.</b>                                     |              |
| 230 kV GEN-TIE LINE ALTERNATIVE (D2)<br>LAYOUT PLAN |              |
| project<br>52573                                    | contract     |
| drawing<br><b>P15</b>                               | rev. -       |
| sheet<br>15   | of 20 sheets |
| file ESJ-BASE14 ALT 3 & 4.DWG                       |              |

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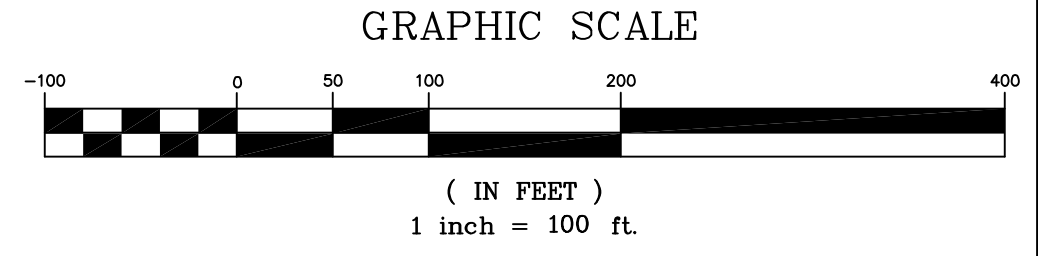
| no. | date   | by  | ckd | description |
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| A   | 2/1/10 | JAK | JAK | ADDED NOTES |



Millimeters  
Scale for Microfilming  
Inches

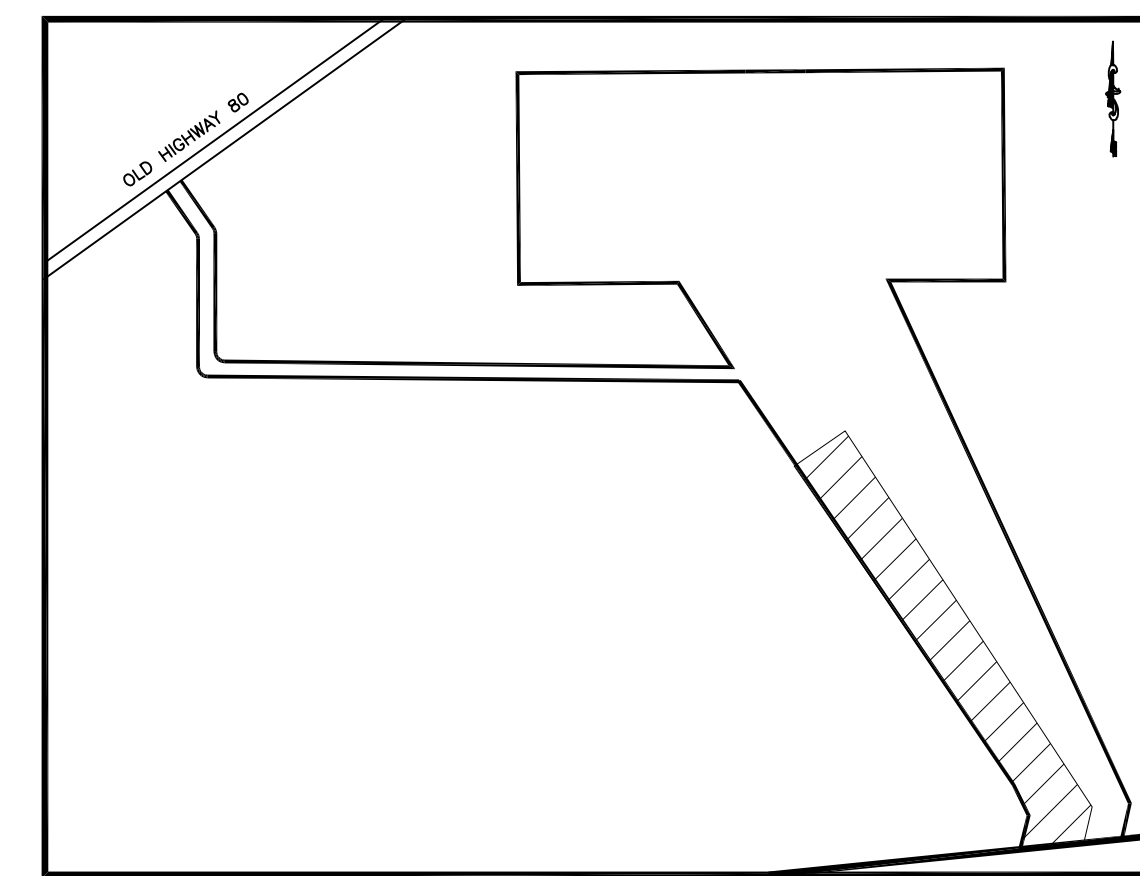
SAN DIEGO COUNTY, CA

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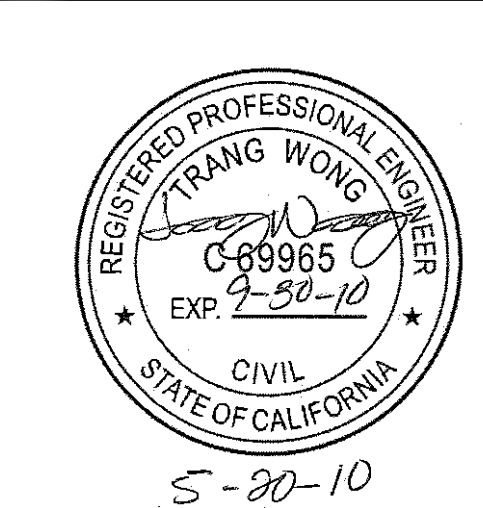
**LEGEND**

|  |                                    |
|--|------------------------------------|
|  | PROPERTY BOUNDARY LINE             |
|  | EASEMENT LINE                      |
|  | FUTURE SUBSTATION BOUNDARY         |
|  | EXISTING DESERT ROAD               |
|  | 28' PROJECT ACCESS (PA) ROAD       |
|  | 12' PROPOSED GEN-TIE ROAD          |
|  | PROPOSED 230kV STEEL LATTICE TOWER |
|  | PROPOSED 230kV STEEL MONO-POLE     |



KEY PLAN  
NTS

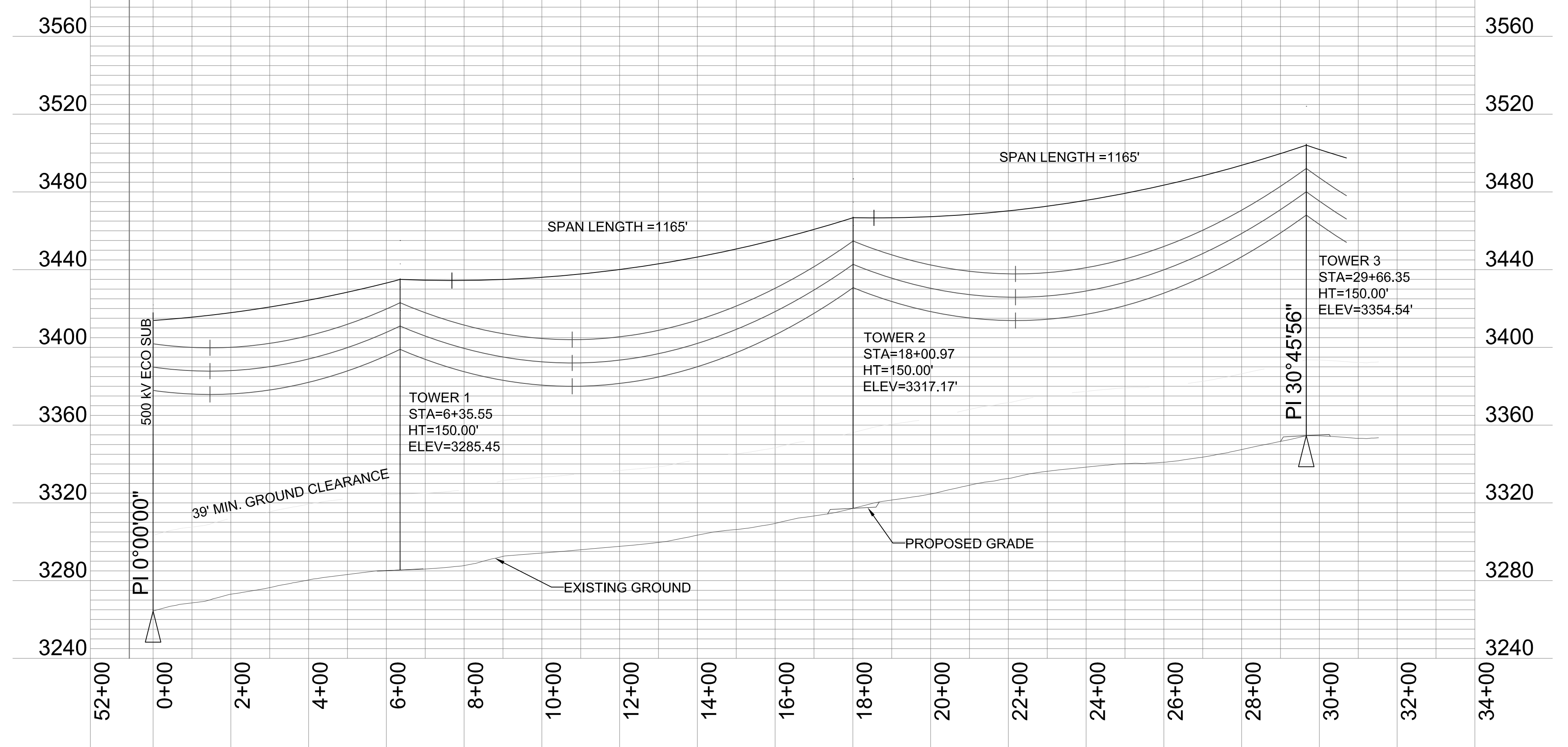
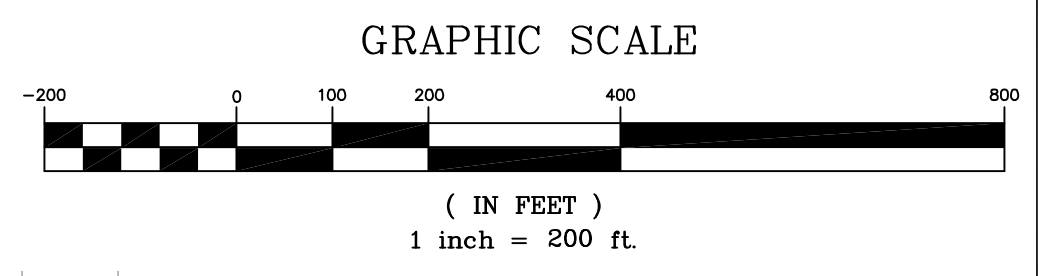
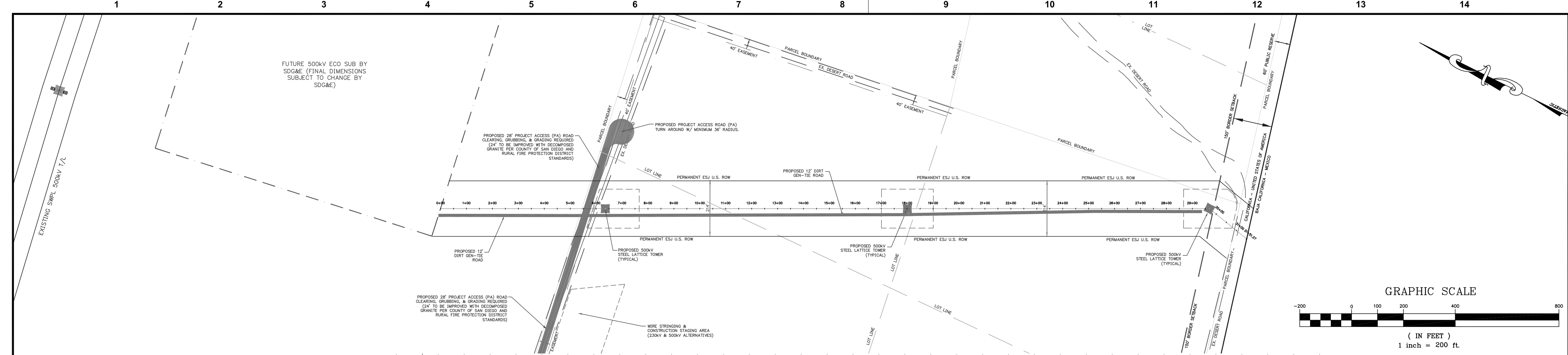
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|            |              |                 |            |
|------------|--------------|-----------------|------------|
| date       | MAY 14, 2010 | detailed        | J. KANITZ  |
| designed   | J. KANITZ    | checked         | J. STAHLAK |
| MUP 09-008 |              | KIVA 09-0107420 |            |

|   |            |          |           |
|---|------------|----------|-----------|
| <b>ESJ U.S.</b>                                     |            |          |           |
| 230 kV GEN-TIE LINE ALTERNATIVE (D2)<br>LAYOUT PLAN |            |          |           |
| project   | 52573      | contract |           |
| drawing   | <b>P16</b> | rev.     | -         |
| sheet   | 16         | of       | 20 sheets |
| file ESJ-BASE14 ALT 3 & 4.DWG                       |            |          |           |

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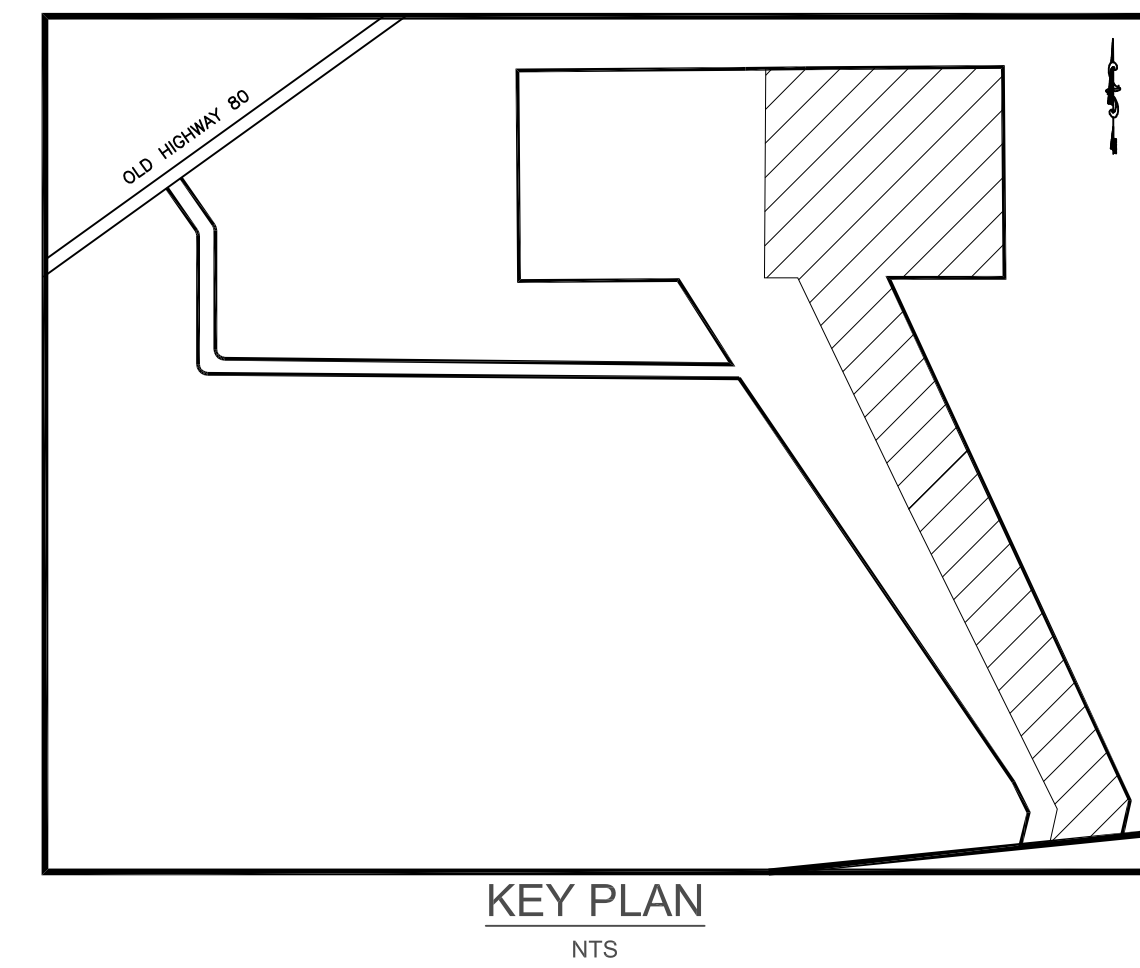
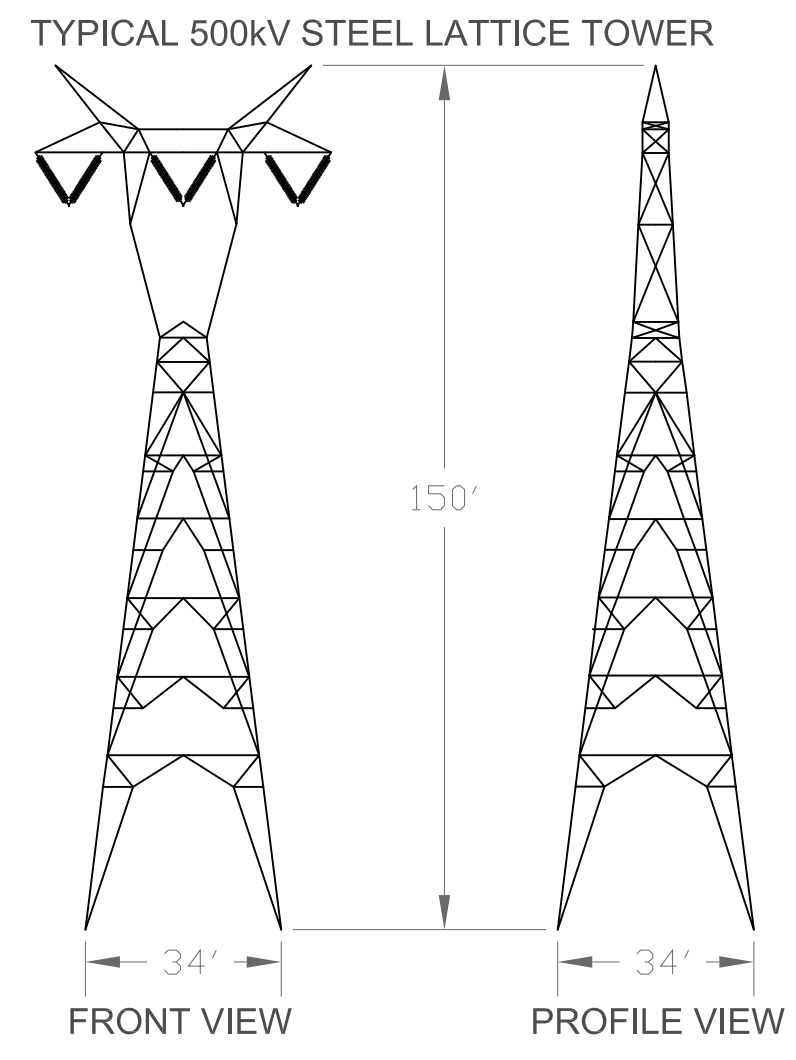


### 500 kV LATTICE TOWER PROFILE

SCALE: 1"=200' HORIZONTAL  
1"=40' VERTICAL

#### LEGEND

- PARCEL BOUNDARY LINE
- EASEMENT LINE
- FUTURE SUBSTATION BOUNDARY
- EXISTING DESERT ROAD
- 28' PROJECT ACCESS (PA) ROAD
- 12' PROPOSED GEN-TIE ROAD
- PROPOSED 500KV STEEL LATTICE TOWER



**PRELIMINARY - NOT FOR CONSTRUCTION**



|          |              |          |            |
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| designed | J. KANITZ    | checked  | J. STAHLAK |

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ESJ U.S.  
500 kV GEN-TIE LINE ALTERNATIVE (D1)  
LATTICE TOWER PLAN/PROFILE

|                               |            |          |           |
|-------------------------------|------------|----------|-----------|
| project                       | 52573      | contract |           |
| drawing                       | <b>P17</b> | rev.     |           |
| sheet                         | 17         | of       | 20 sheets |
| file ESJ-BASE14 ALT 3 & 4.DWG |            |          |           |

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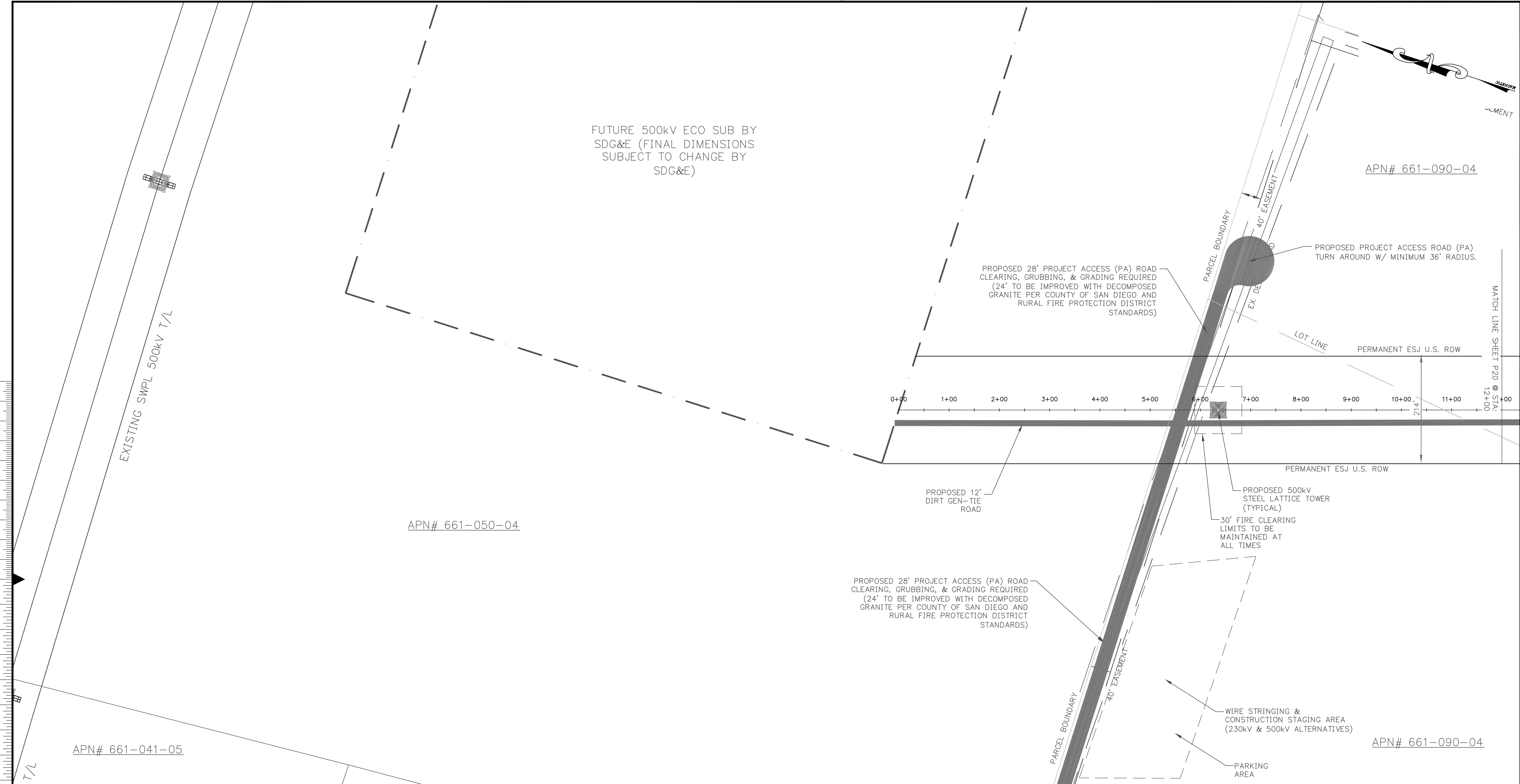






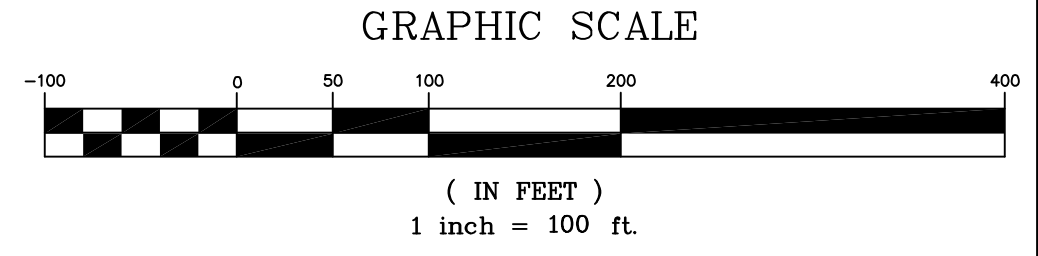
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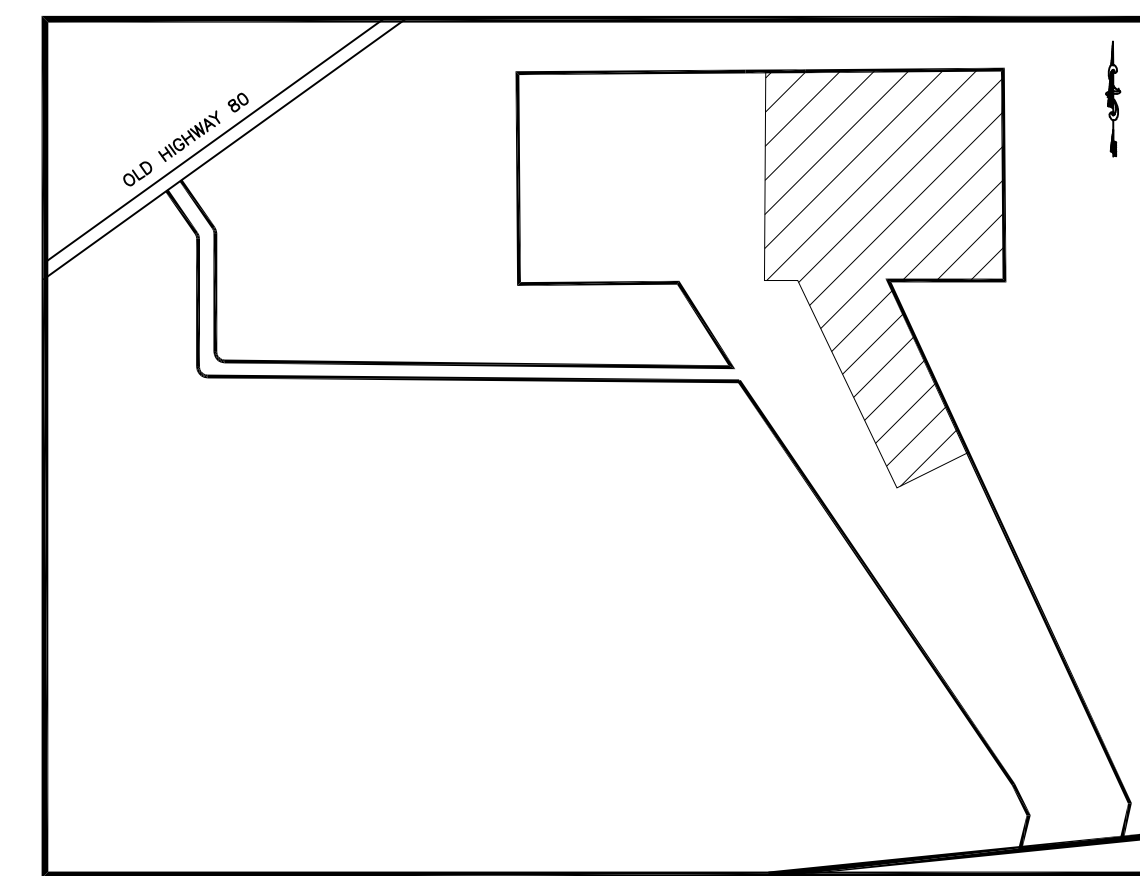
SAN DIEGO COUNTY, CA

**PRELIMINARY - NOT FOR CONSTRUCTION**



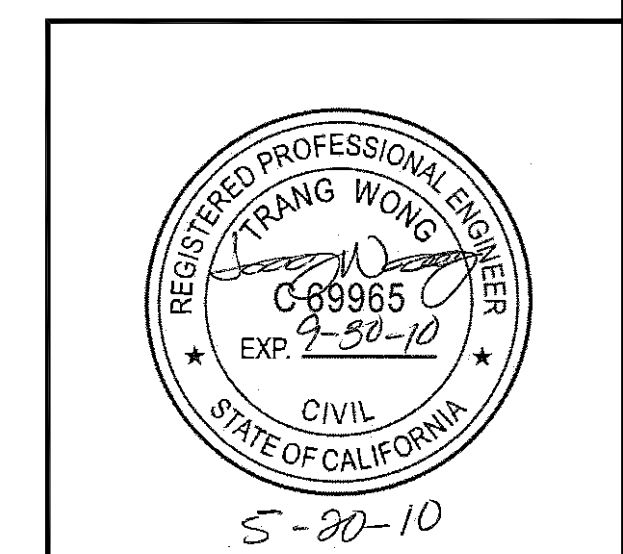
**LEGEND**

|  |                                    |
|--|------------------------------------|
|  | PROPERTY BOUNDARY LINE             |
|  | EASEMENT LINE                      |
|  | FUTURE SUBSTATION BOUNDARY         |
|  | EXISTING DESERT ROAD               |
|  | PROJECT ACCESS (PA) ROAD           |
|  | PROPOSED GEN-TIE ROAD              |
|  | PROPOSED 500kV STEEL LATTICE TOWER |
|  | PROPOSED 500kV STEEL MONO-POLE     |



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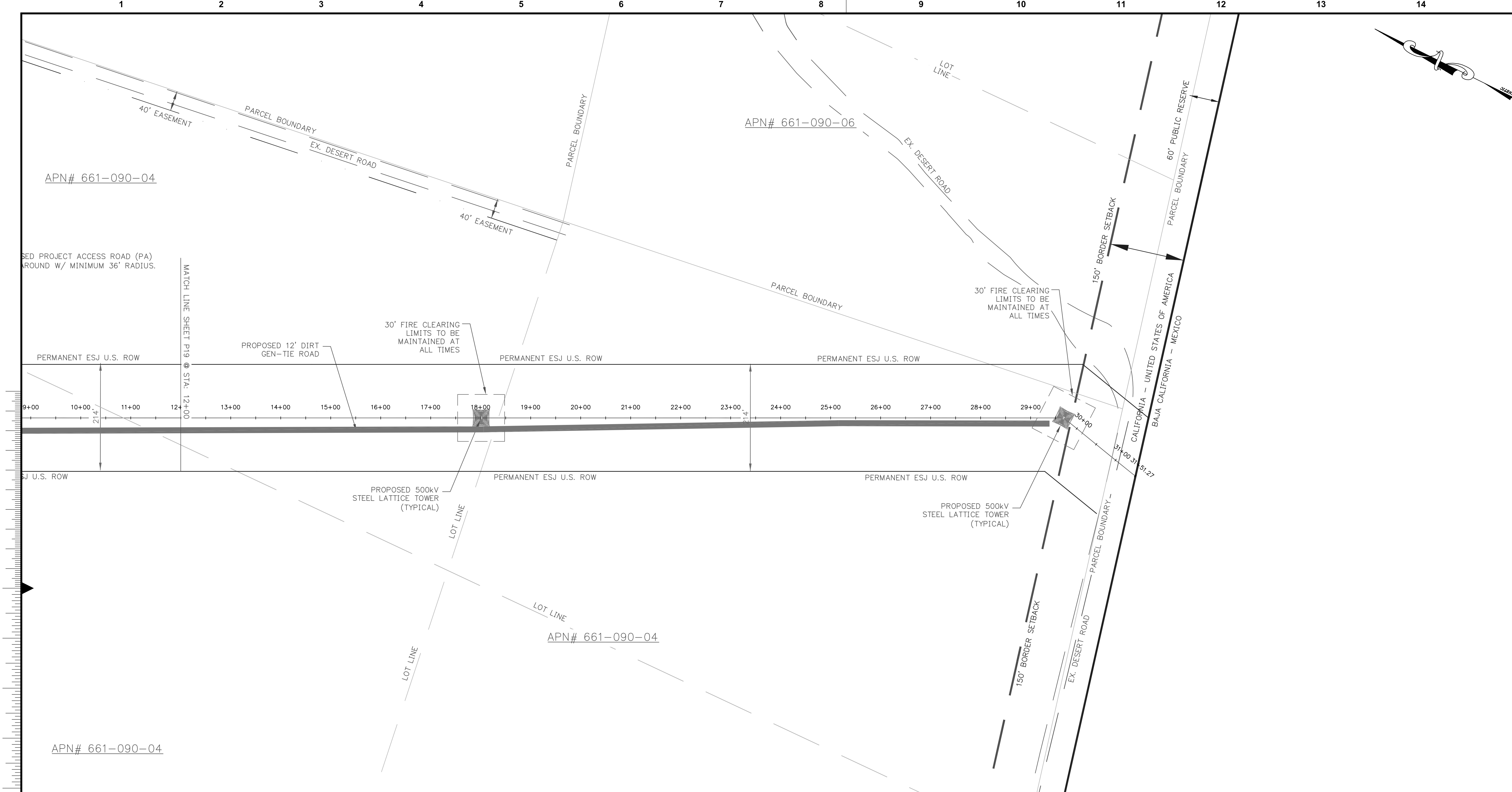
24-HR CONTACT: TBD



|                               |                       |
|-------------------------------|-----------------------|
| date<br>MAY 14, 2010          | detailed<br>J. KANITZ |
| designed<br>J. KANITZ         | checked<br>J. STAHLAK |
| MUP 09-008<br>KIVA 09-0107420 |                       |

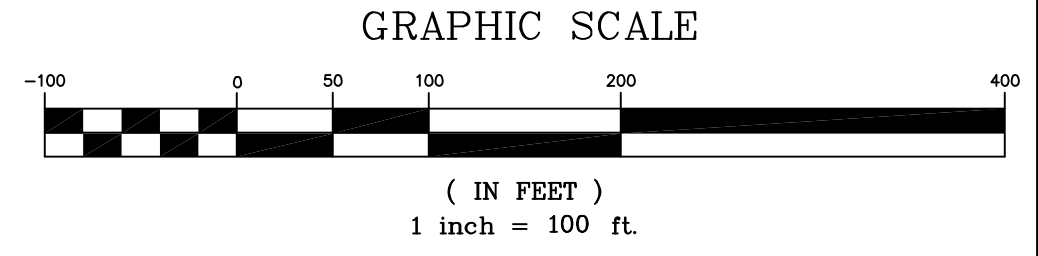
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| ESJ U.S.<br>500 kV GEN-TIE LINE ALTERNATIVE (D1)<br>LAYOUT PLAN |              |
| project<br>52573  | contract     |
| drawing<br><b>P19</b>   | rev. -       |
| sheet<br>19   | of 20 sheets |
| file ESJ-BASE14 ALT 3 & 4.DWG                                   |              |

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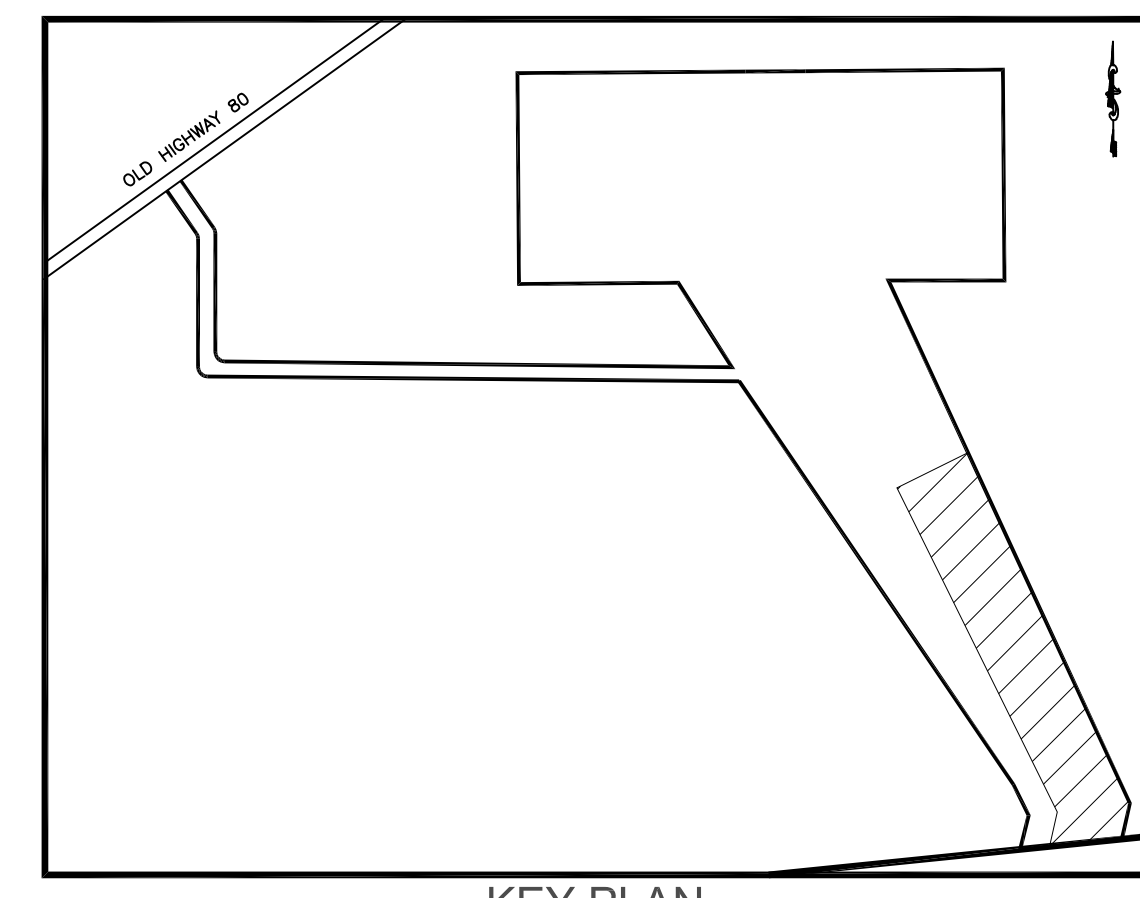
SAN DIEGO COUNTY, CA

**PRELIMINARY - NOT FOR CONSTRUCTION**

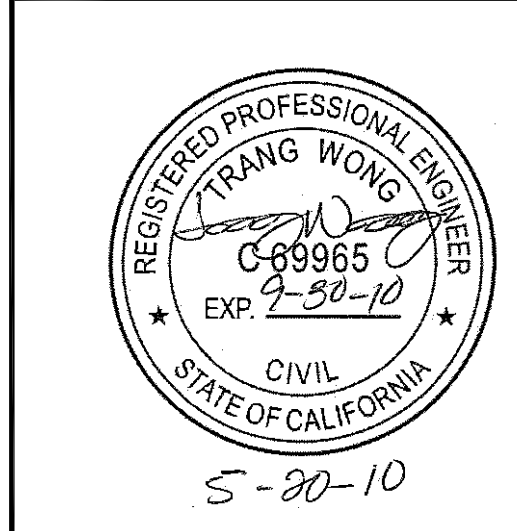


**LEGEND**

- PROPERTY BOUNDARY LINE
- EASEMENT LINE
- FUTURE SUBSTATION BOUNDARY
- EXISTING DESERT ROAD
- 28' PROJECT ACCESS (PA) ROAD
- 12' PROPOSED GEN-TIE ROAD
- PROPOSED 500kV STEEL LATTICE TOWER
- PROPOSED 500kV STEEL MONO-POLE



KEY PLAN  
NTS



| no. | date | by | ckd | description |
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|          |              |          |            |
|----------|--------------|----------|------------|
| date     | MAY 14, 2010 | detailed | J. KANITZ  |
| designed | J. KANITZ    | checked  | J. STAHLAK |

|                               |    |          |           |
|-------------------------------|----|----------|-----------|
| project                       |    | contract |           |
| 52573                         |    |          |           |
| drawing                       |    | rev.     |           |
| <b>P20</b>                    |    | -        |           |
| sheet                         | 20 | of       | 20 sheets |
| file ESJ-BASE14 ALT 3 & 4.DWG |    |          |           |

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