

# ESJ U.S.

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

June 2009

52573

### Preliminary Plot Plans

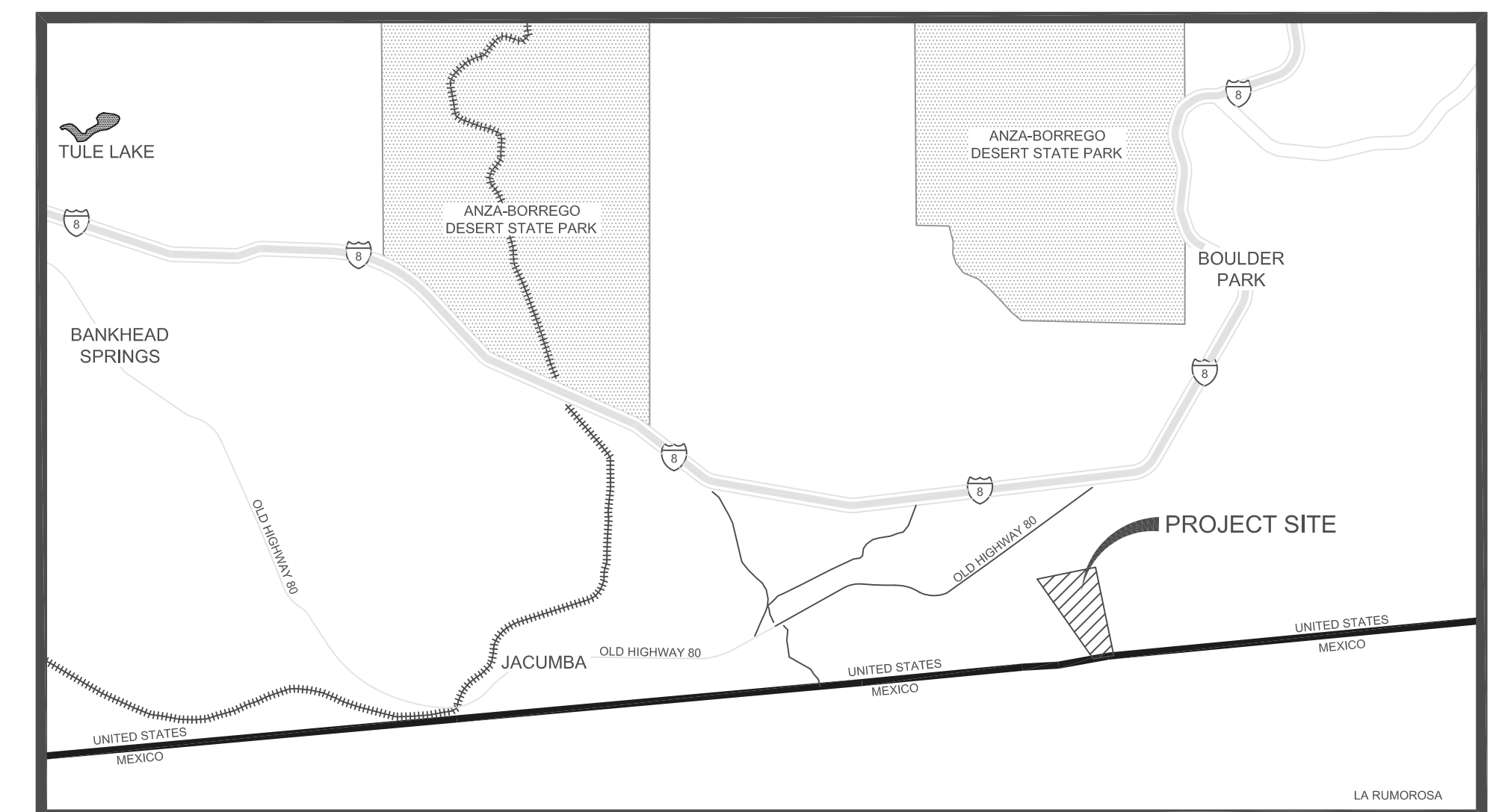
#### DRAWING LIST

DWG. NO.	REVISION	TITLE
P01	1	COVER-INDEX
P02	1	OVERALL LAYOUT SHEET
P03	1	230KV STEEL LATTICE TOWER PLAN & PROFILE
P04	1	230KV STEEL MONOPOLE PLAN & PROFILE
P05	1	230KV ALTERNATIVE PRELIMINARY PLOT PLAN SHEET 1 OF 2
P06	1	230KV ALTERNATIVE PRELIMINARY PLOT PLAN SHEET 2 OF 2
P07	1	500KV STEEL LATTICE TOWER PLAN & PROFILE
P08	1	500KV STEEL MONOPOLE PLAN & PROFILE
P09	1	500KV ALTERNATIVE PRELIMINARY PLOT PLAN SHEET 1 OF 2
P10	1	500KV ALTERNATIVE 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.

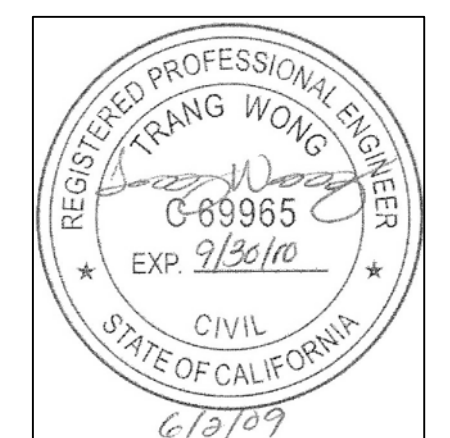
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APN 661-080-10  
APN 661-090-04  
APN 661-090-05  
APN 661-090-06

**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

**PRELIMINARY - NOT  
FOR CONSTRUCTION**

**NOTE:**  
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.

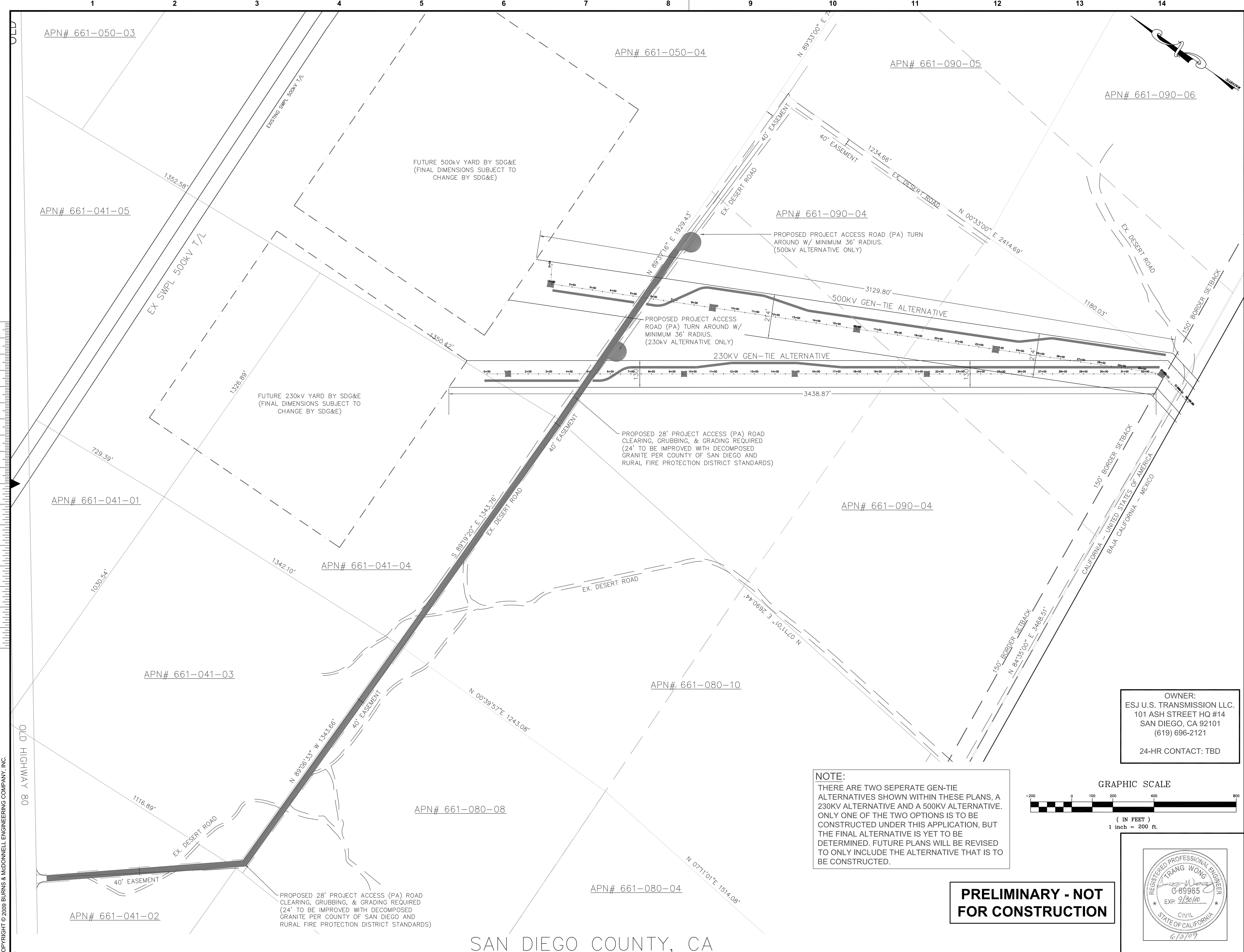


**NOTE:**  
DEPICTION OF SDG&E'S ECO SUBSTATION IS APPROXIMATE AND SUBJECT TO FINAL DESIGN BY SDG&E.

**ESJ U.S. Gen-Tie Line Project**  
**MUP 09-008**  
**KIVA 09-0107420**



# P01



no.	date	by	ckd	description

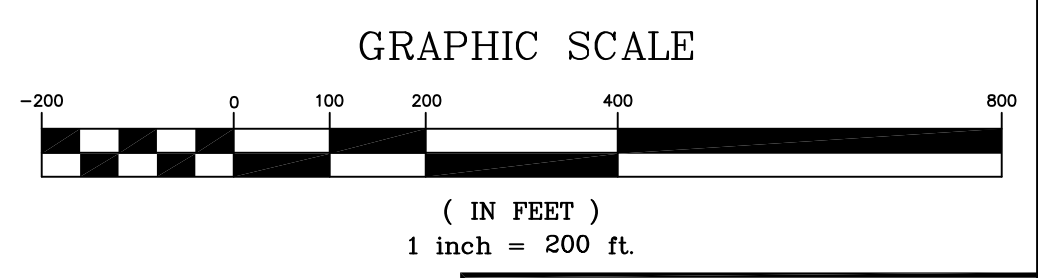
Scale For Micromining  
Millimeters

Inches

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**NOTE:**  
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.



**PRELIMINARY - NOT FOR CONSTRUCTION**

SAN DIEGO COUNTY, CA



date JUNE 1, 2009	detailed J. KANITZ
designed J. KANITZ	checked J. STAHLAK

MUP 09-008  
KIVA 09-0107420

**ESJ U.S.**  
230KV & 500KV GEN-TIE LINE ALTERNATIVES  
OVERALL LAYOUT PLAN

project 52573	contract
drawing <b>P02</b>	rev. <b>1</b>
sheet 2	of 10
file ESJ-BASE11.DWG	

APN# 661-050-03

APN# 661-050-04

APN# 661-090-05

APN# 661-090-06

APN# 661-041-05

APN# 661-090-04

APN# 661-041-01

APN# 661-090-04

APN# 661-041-04

APN# 661-080-10

APN# 661-041-03

APN# 661-080-08

APN# 661-080-04

APN# 661-041-02

OLD HIGHWAY 80

1

2

3

4

5

6

7

8

9

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14

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B

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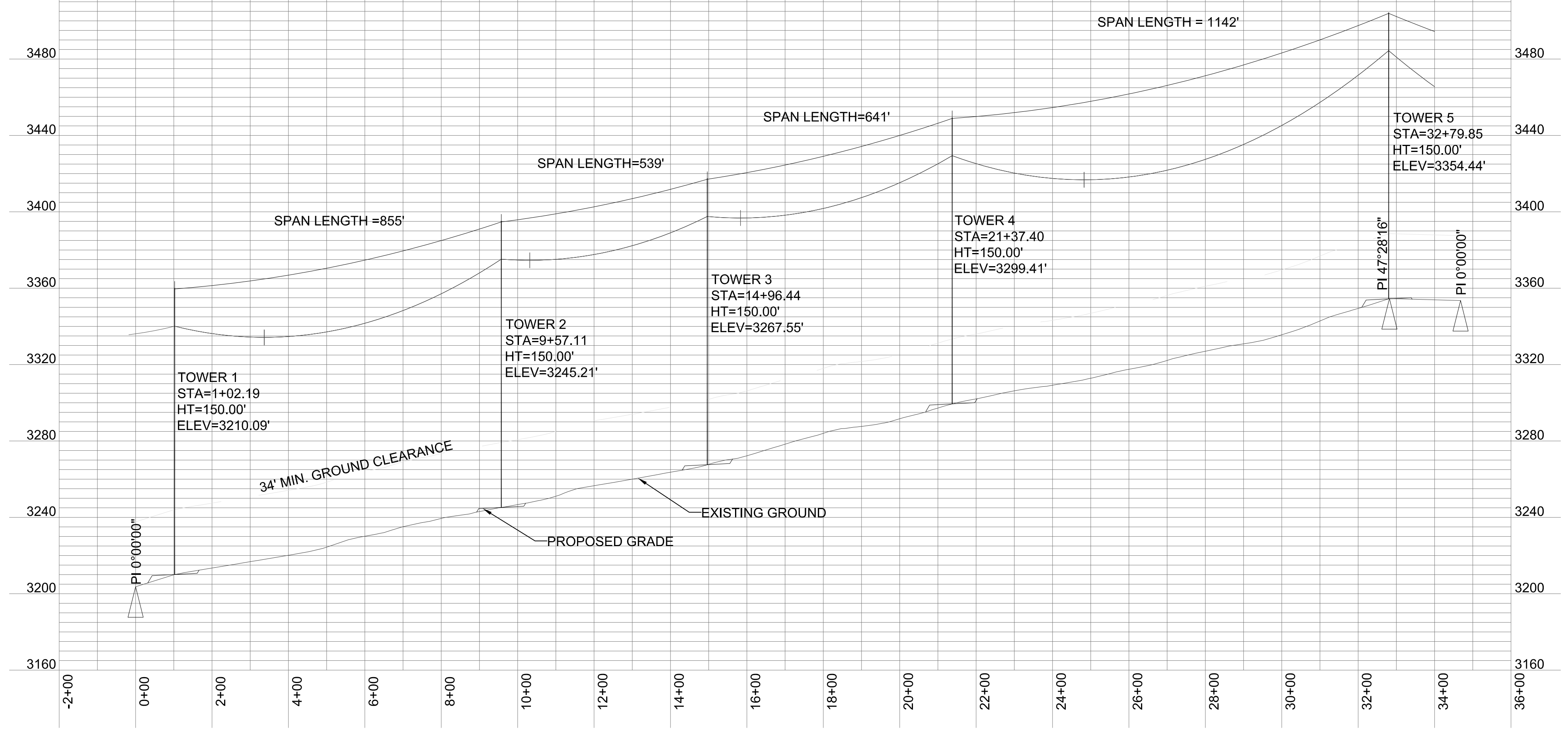
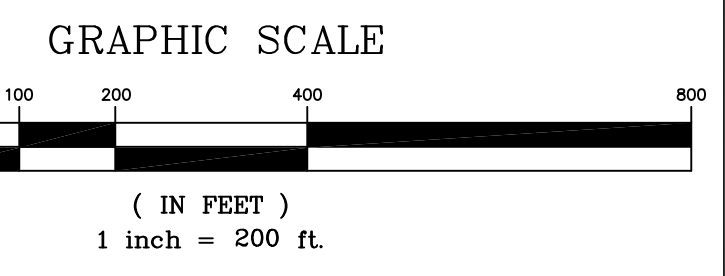
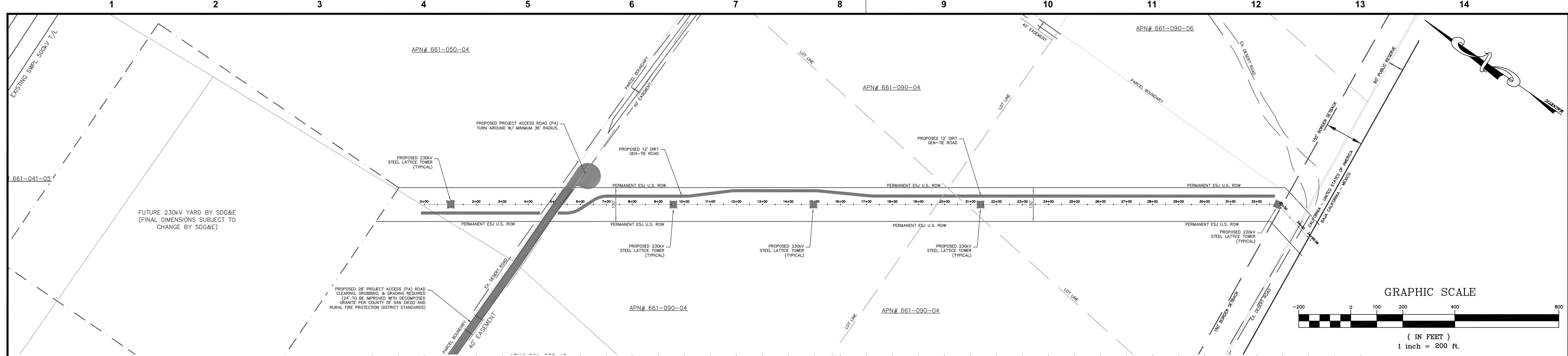
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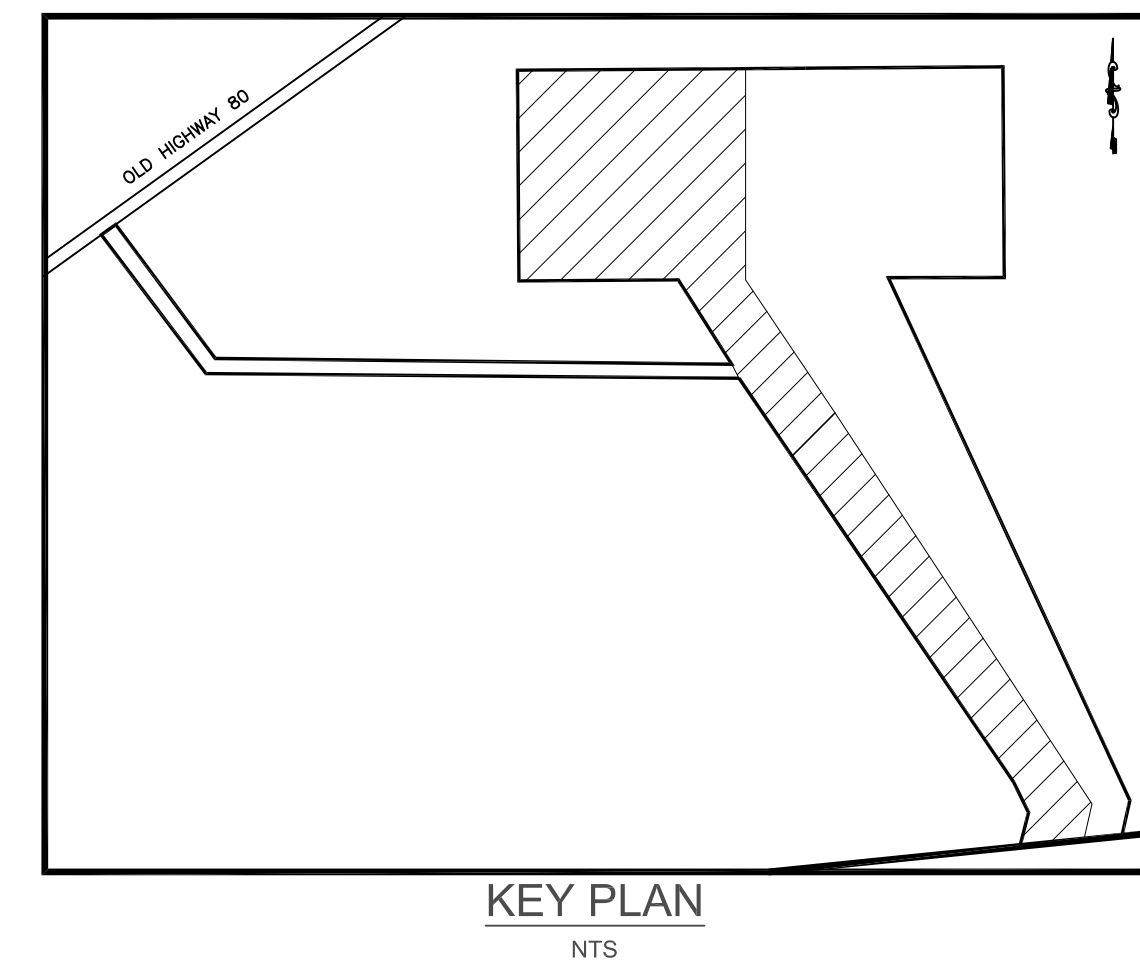
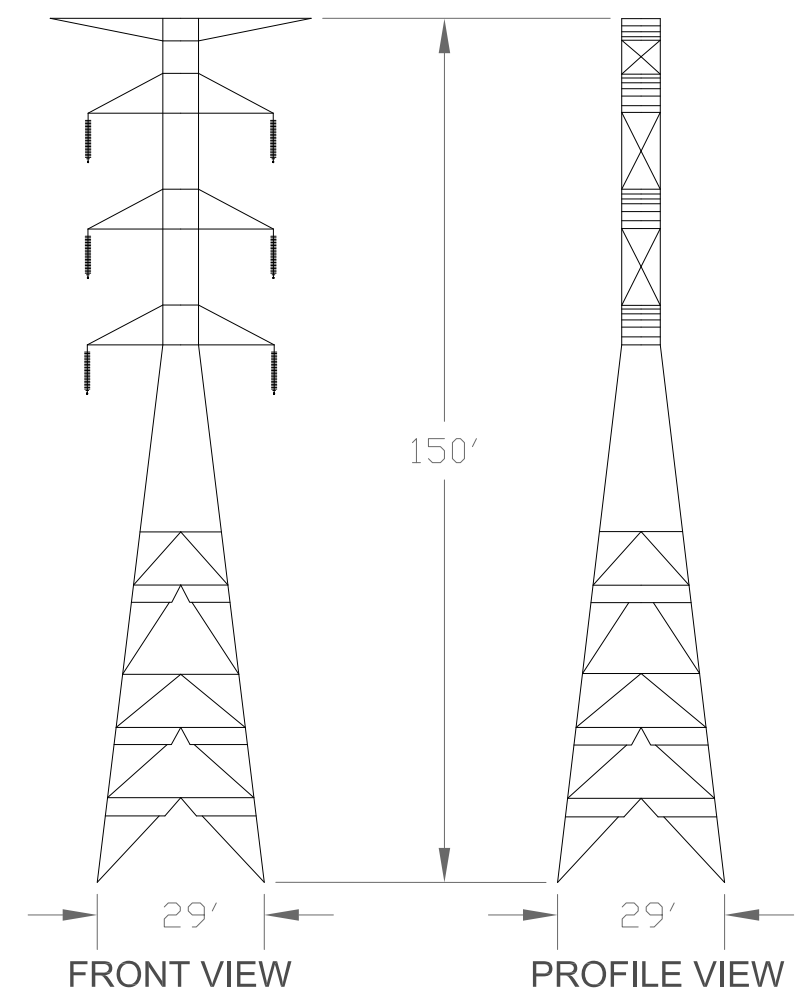


### 230 kV LATTICE TOWER PROFILE

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 230kV STEEL LATTICE TOWER

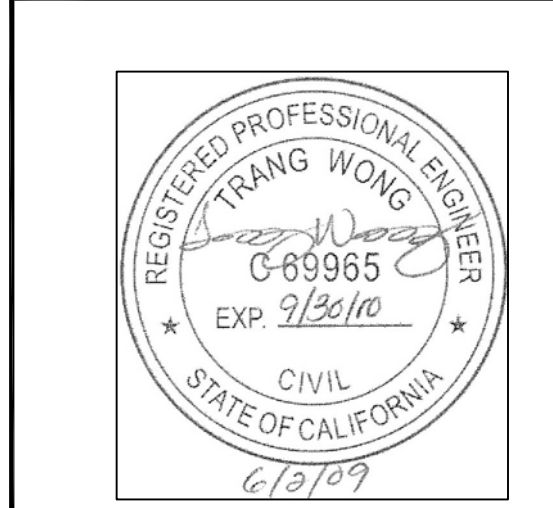


**PRELIMINARY - NOT FOR CONSTRUCTION**



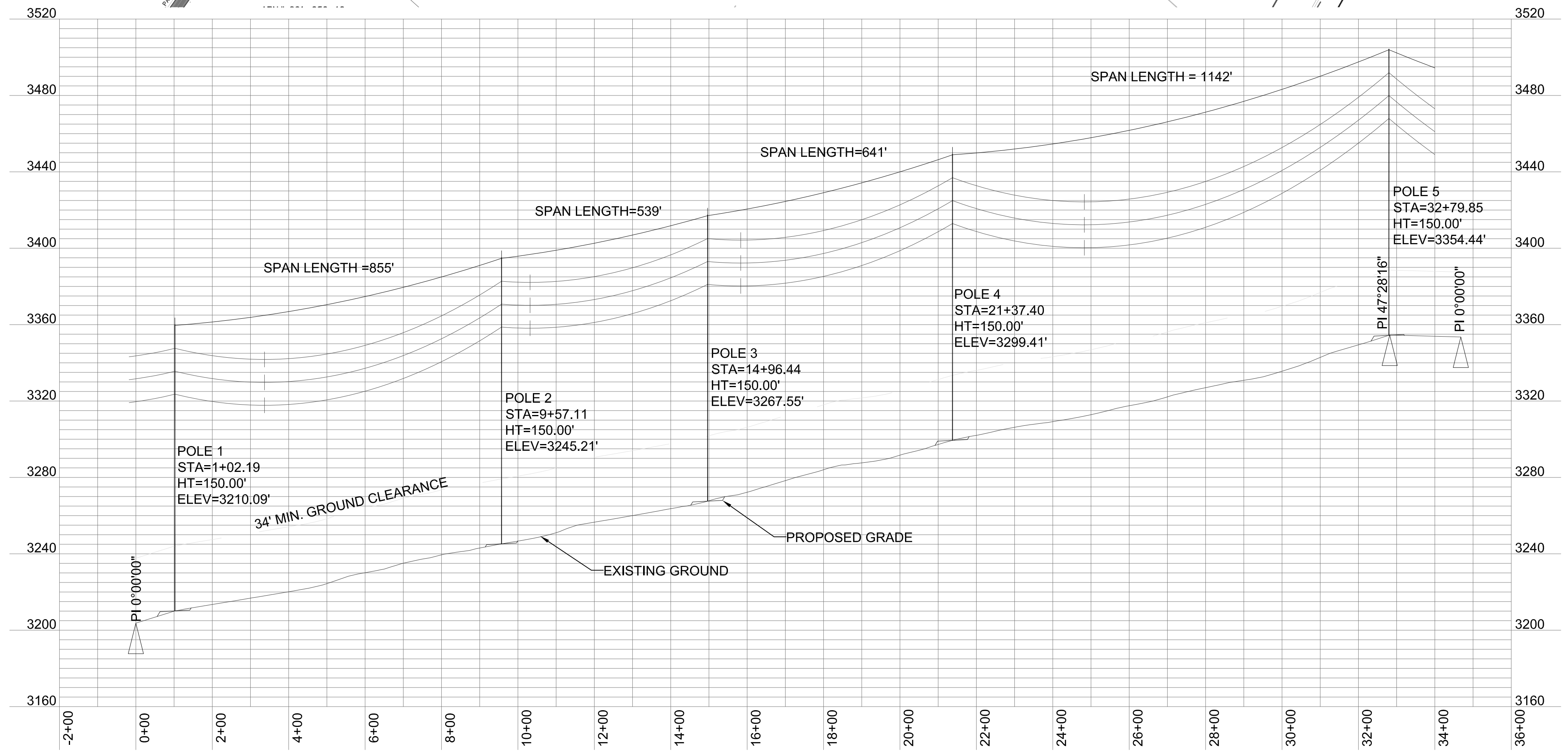
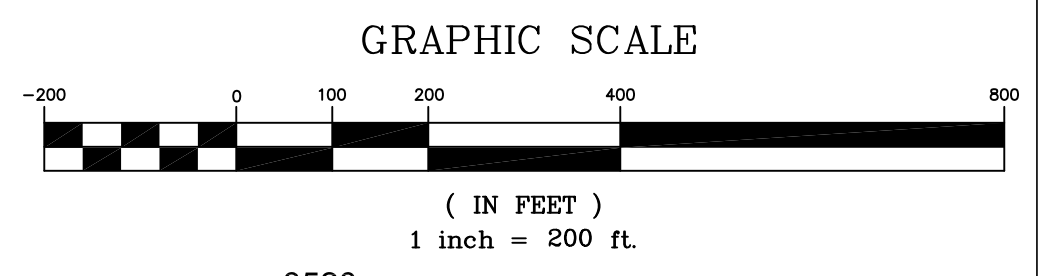
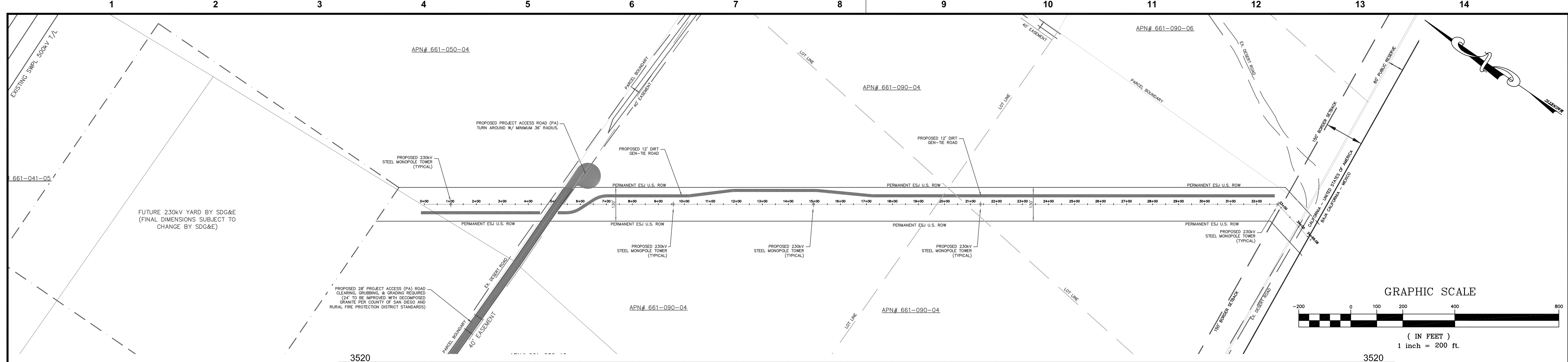
date	JUNE 1, 2009	detailed	J. KANITZ
designed	J. KANITZ	checked	J. STAHLAK
MUP 09-008		KIVA 09-0107420	
24-HR CONTACT: TBD			

OWNER:  
ESJ U.S. TRANSMISSION LLC.  
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**ESJ U.S.**  
230 kV GEN-TIE LINE ALTERNATIVE  
LATTICE TOWER PLAN/PROFILE

project	52573	contract	
drawing	<b>P03</b>	rev.	<b>1</b>
sheet	3 of 10	sheets	
file ESJ-BASE11.DWG			



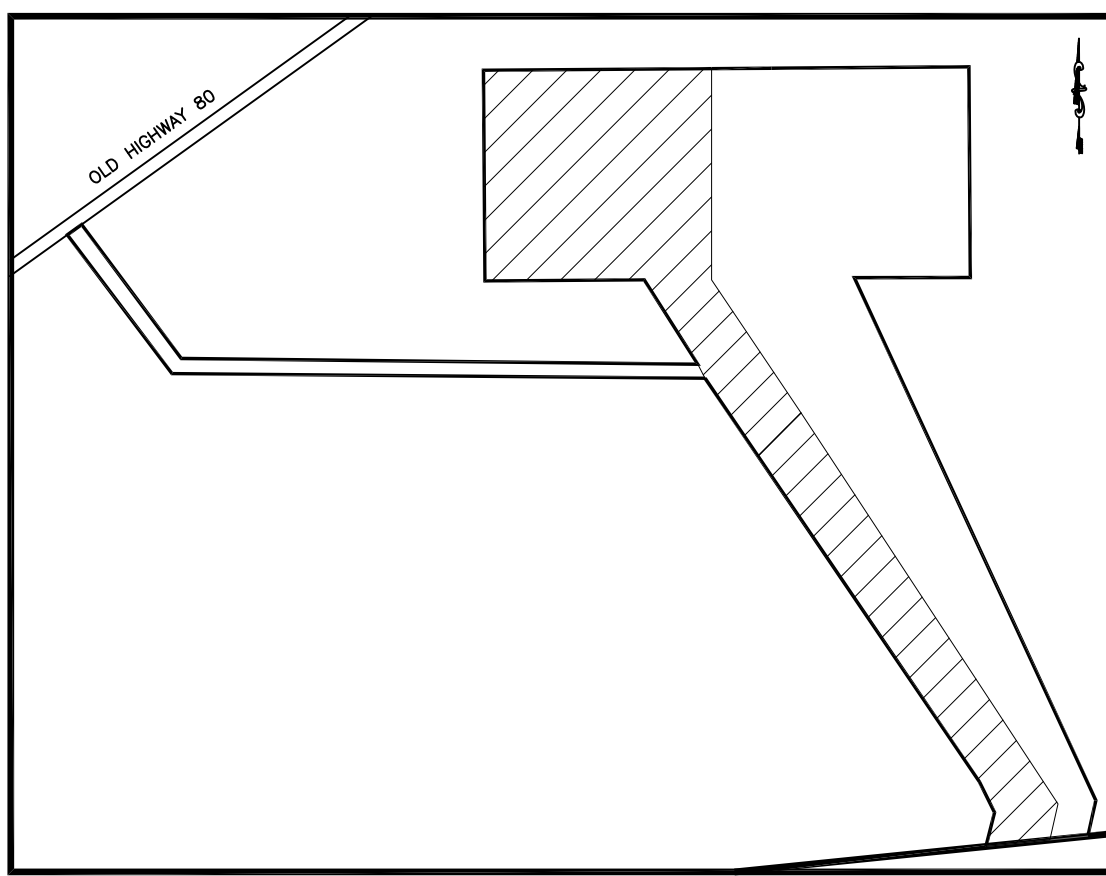
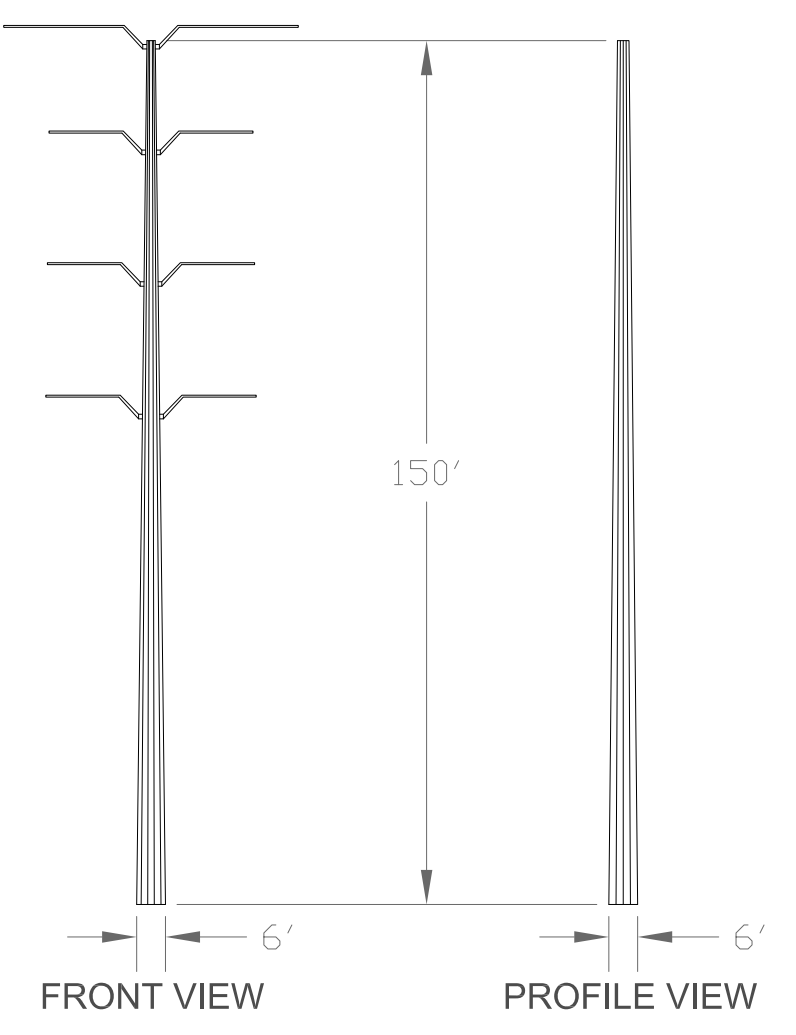
### 230 kV MONOPOLE PROFILE

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

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date	JUNE 1, 2009	detailed	J. KANITZ
designed	J. KANITZ	checked	J. STAHLAK

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(619) 696-2121  
  
24-HR CONTACT: TBD

MUP 09-008  
KIVA 09-0107420



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

project	52573	contract	
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drawing **P04** - rev. **1**

sheet 4 of 10 sheets  
file ESJ-BASE11.DWG

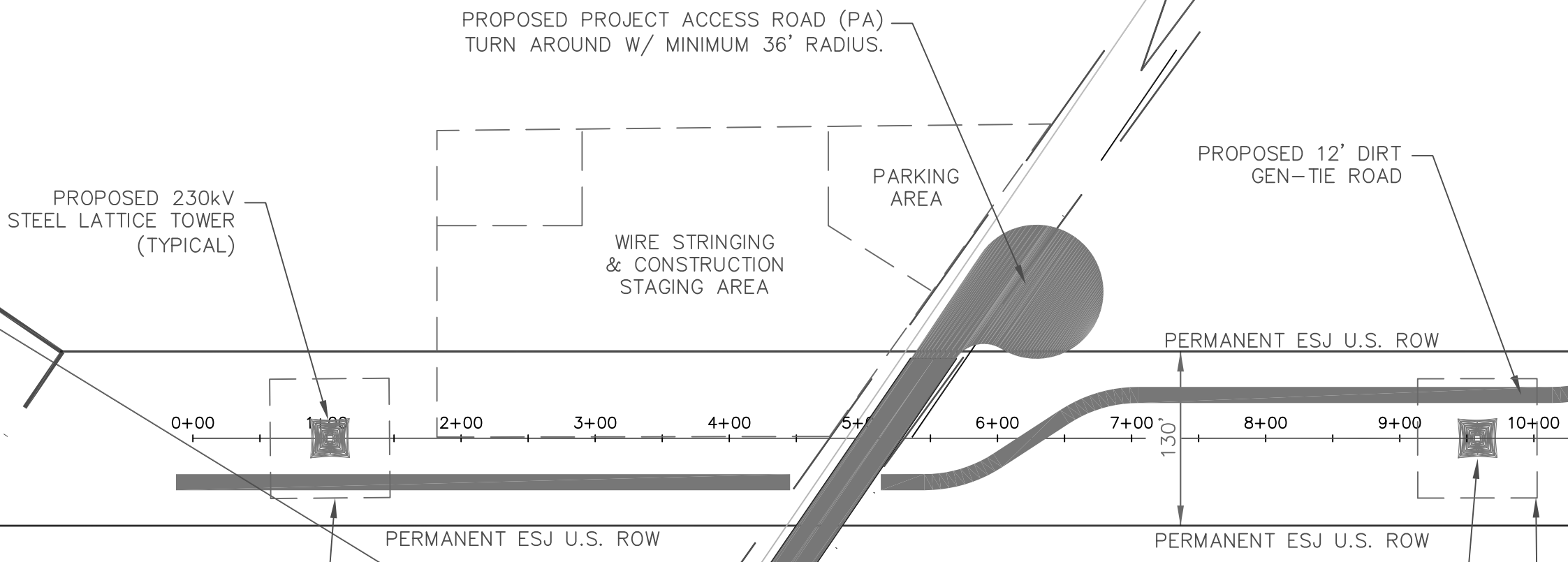
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EXISTING SWPL 500kV T/L

APN# 661-050-04

APN# 661-041-05

FUTURE 230kV YARD BY SDG&E  
(FINAL DIMENSIONS SUBJECT TO  
CHANGE BY SDG&E)



APN# 661-041-04

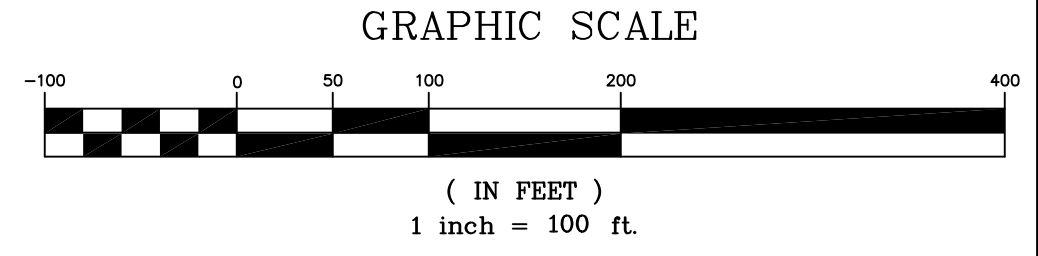
PROPOSED 28' PROJECT ACCESS (PA) ROAD  
CLEARING, GRUBBING, & GRADING REQUIRED  
(24' TO BE IMPROVED WITH DECOMPOSED  
GRANITE PER COUNTY OF SAN DIEGO AND  
RURAL FIRE PROTECTION DISTRICT STANDARDS)

APN# 661-080-10

APN# 661-090-04

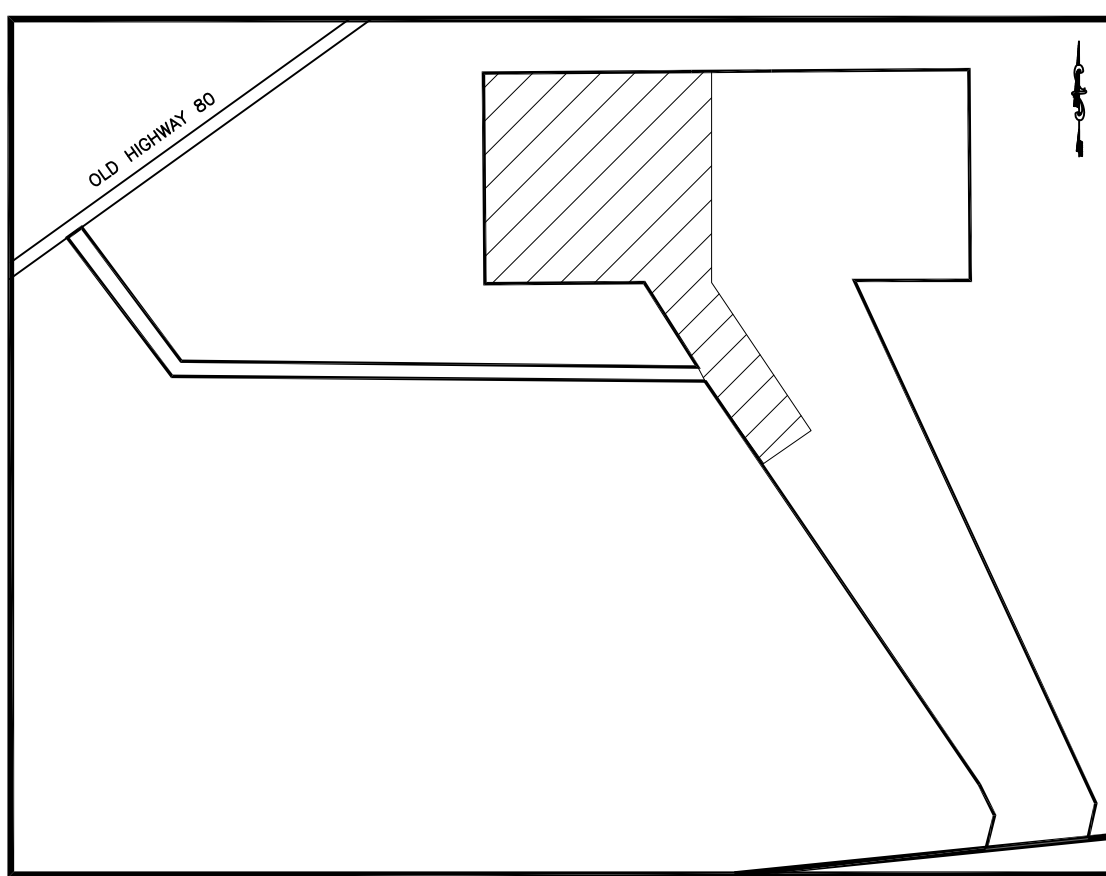
SAN DIEGO COUNTY, CA

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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 230kV STEEL LATTICE TOWER
- PROPOSED 230kV STEEL MONO-POLE



KEY PLAN  
NTS



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(619) 696-2121  
  
24-HR CONTACT: TBD

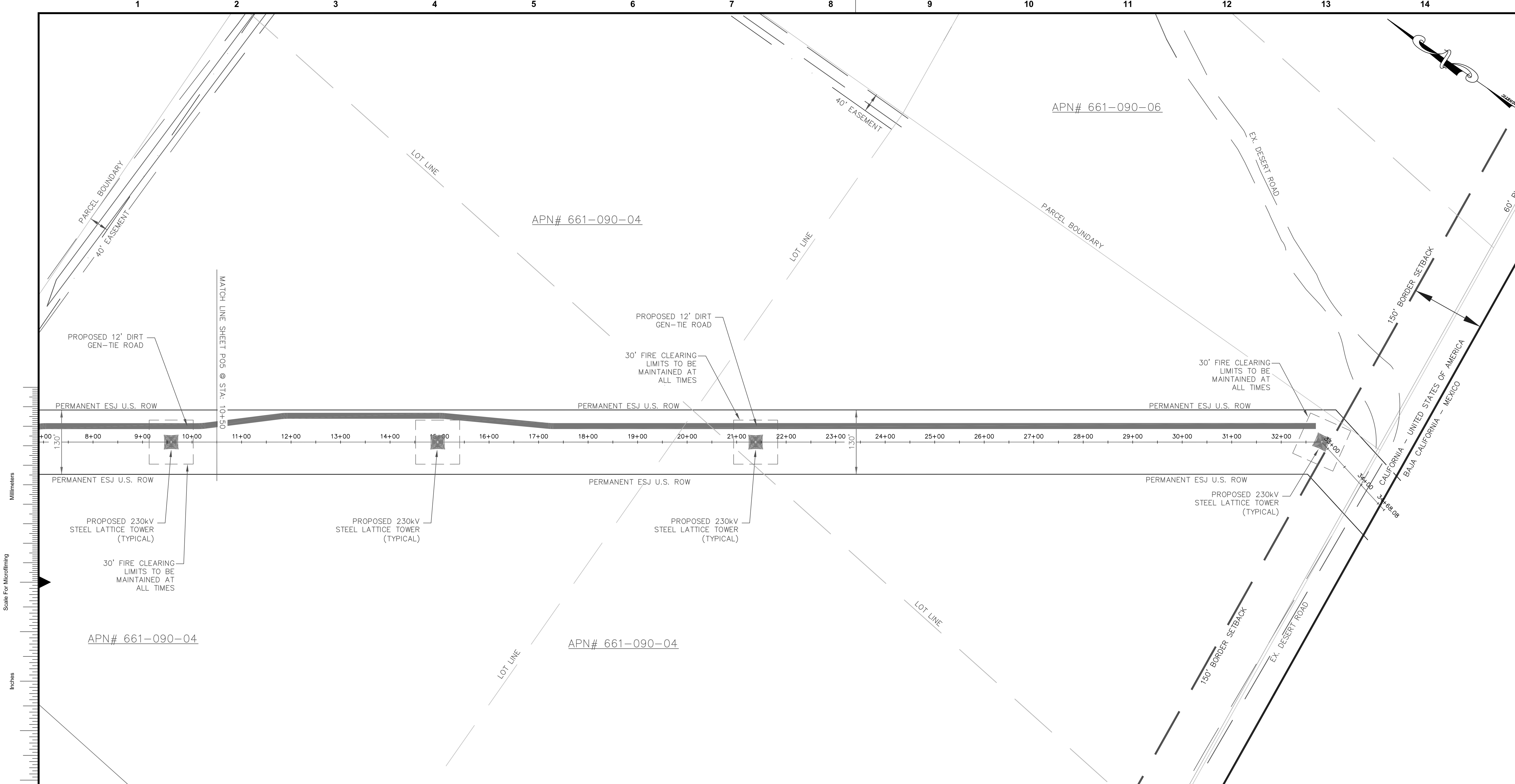
date JUNE 1, 2009	detailed J. KANITZ
designed J. KANITZ	checked J. STAHULAK

MUP 09-008  
KIVA 09-0107420

**ESJ U.S.**  
230 kV GEN-TIE LINE ALTERNATIVE  
LAYOUT PLAN

project 52573	contract
drawing <b>P05</b>	rev. <b>1</b>
sheet 5	of 10
file ESJ-BASE11.DWG	

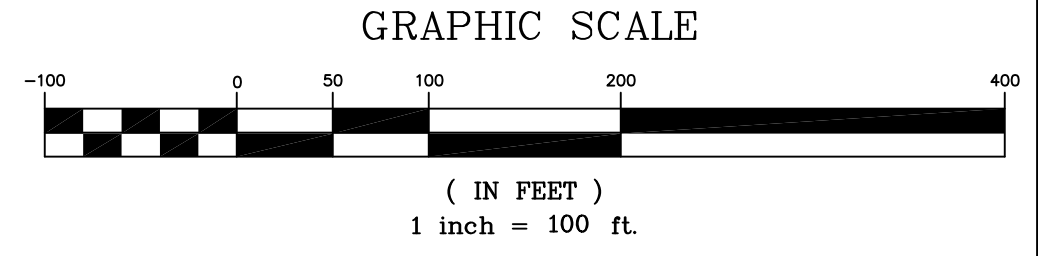
Scale For Microminim  
Millimeters  
Inches



Millimeters  
Scale For Microminim  
Inches

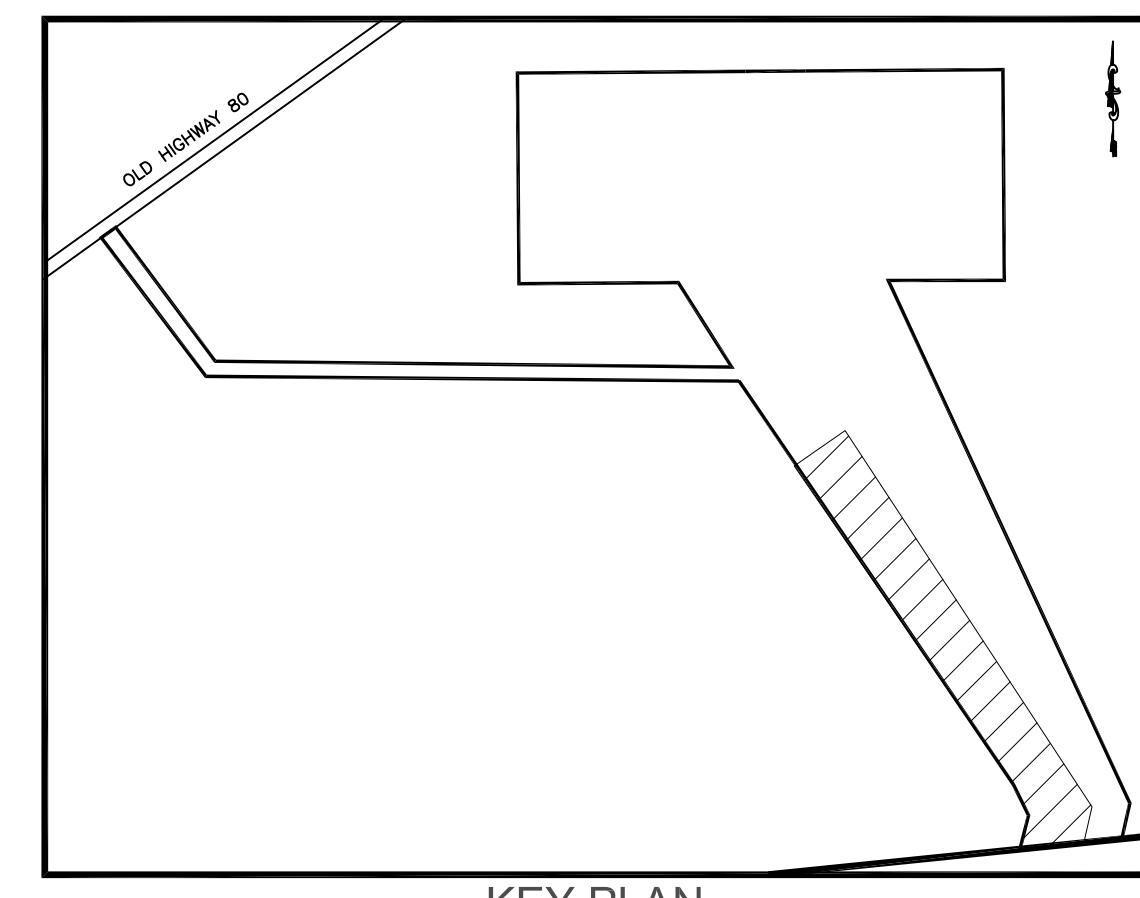
SAN DIEGO COUNTY, CA

**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 230kV STEEL LATTICE TOWER
- PROPOSED 230kV STEEL MONO-POLE



KEY PLAN  
NTS

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24-HR CONTACT: TBD



no.	date	by	ckd	description

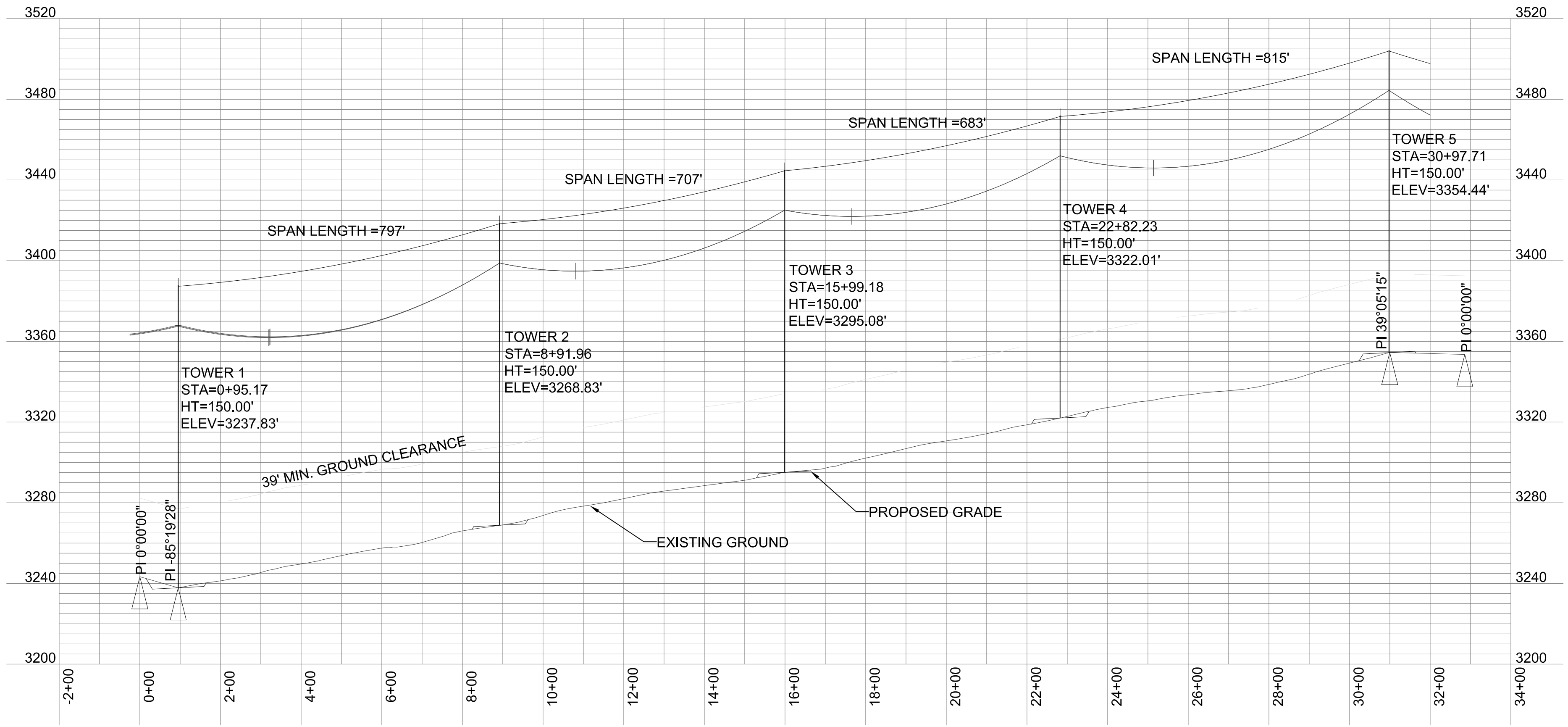
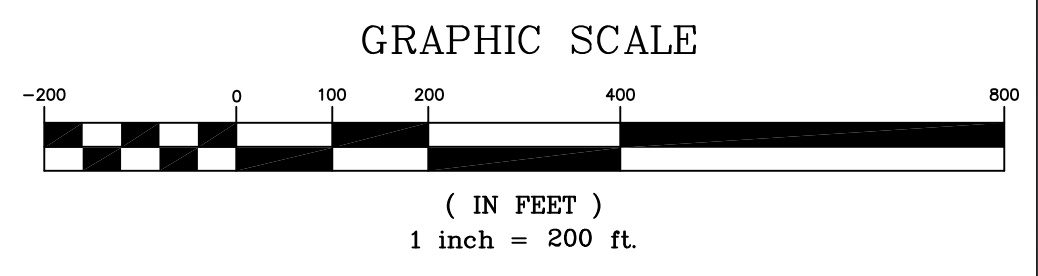
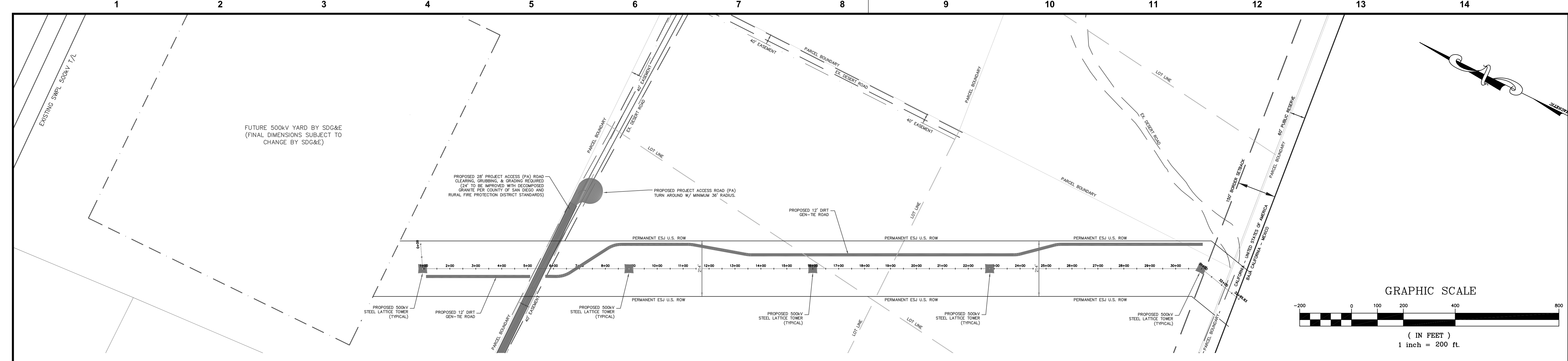


date JUNE 1, 2009	detailed J. KANITZ
designed J. KANITZ	checked J. STAHLAK
MUP 09-008 KIVA 09-0107420	

<b>ESJ U.S.</b> 230 kV GEN-TIE LINE ALTERNATIVE LAYOUT PLAN	
project 52573	contract
drawing <b>P06</b>	rev. <b>1</b>
sheet 6	of 10
file ESJ-BASE11.DWG	

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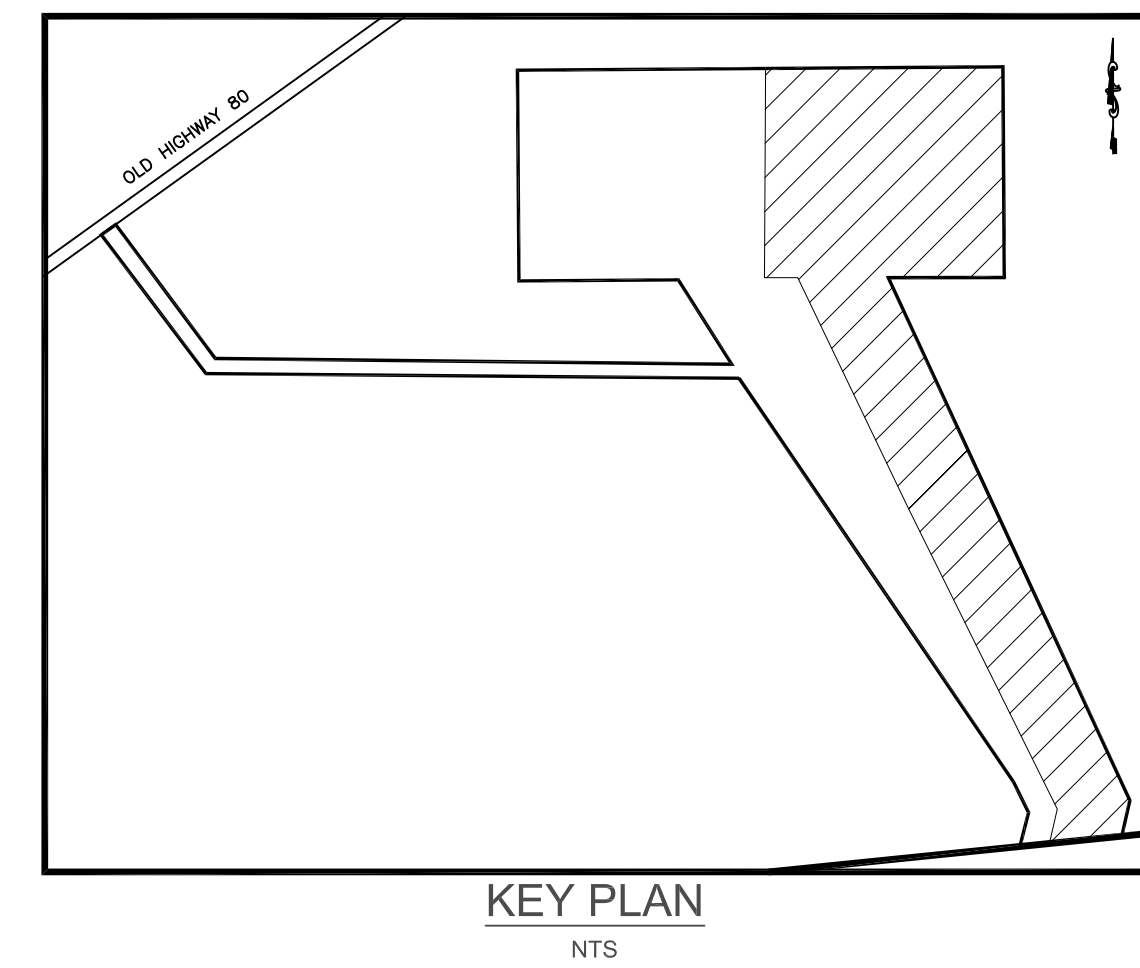
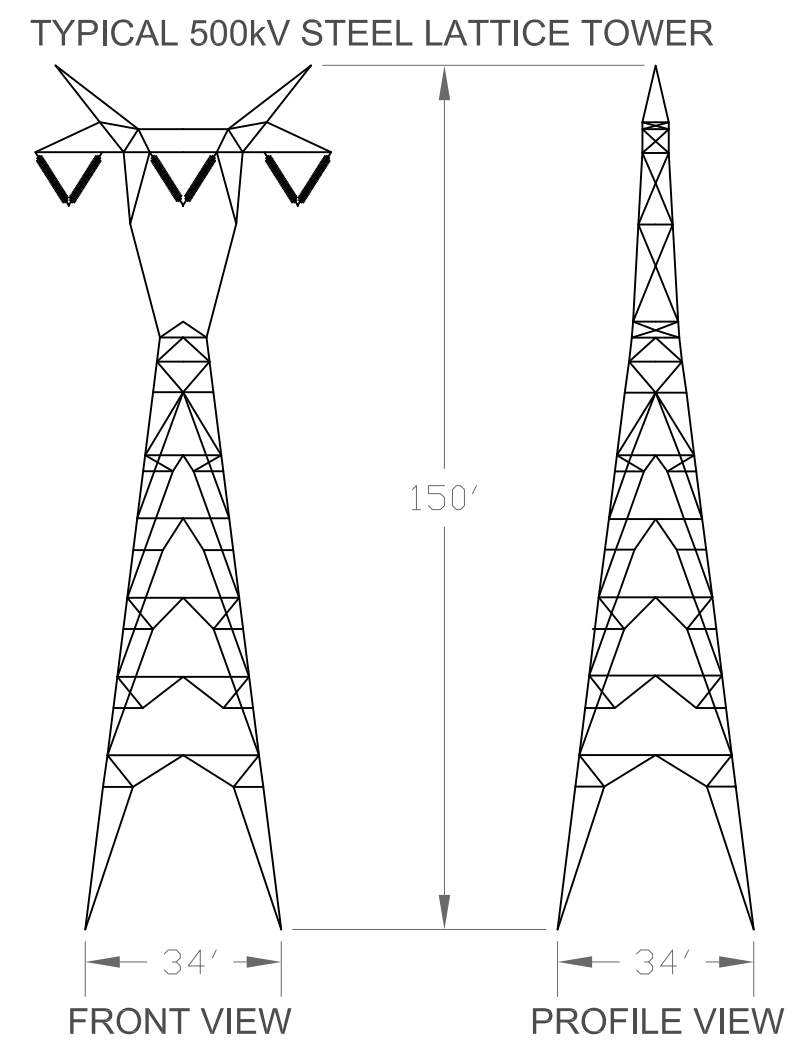


### 500 kV LATTICE TOWER PROFILE

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



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designed J. KANITZ	checked J. STAHLAK

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24-HR CONTACT: TBD

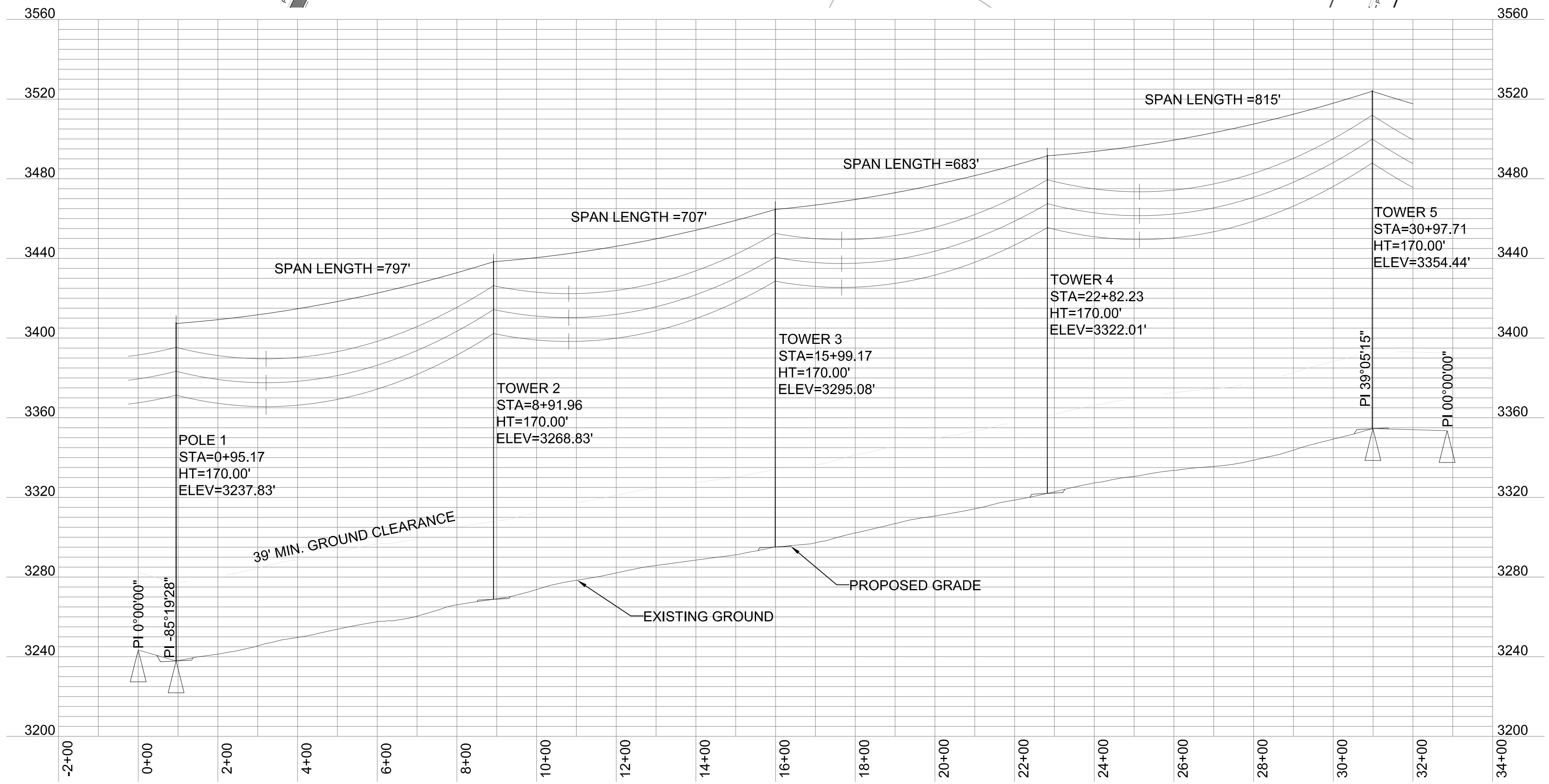
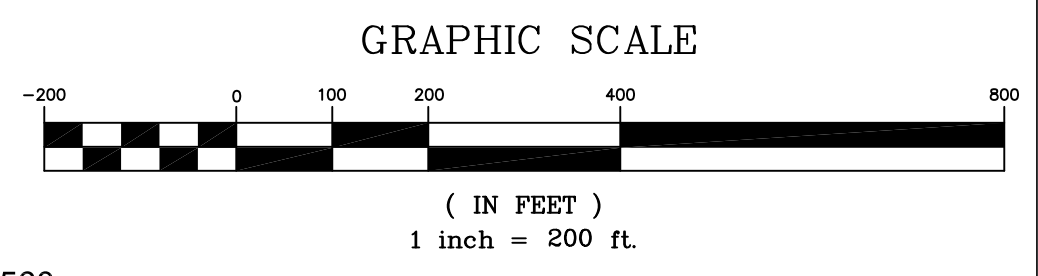
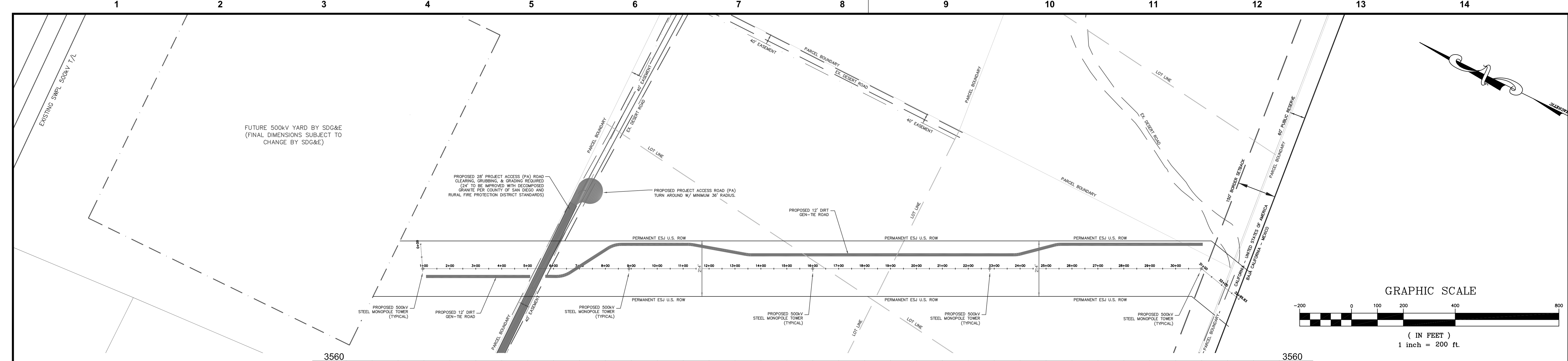
MUP 09-008  
KIVA 09-0107420



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

project 52573	contract
drawing <b>P07</b>	rev. <b>1</b>
sheet 7 of 10 sheets	file ESJ-BASE11.DWG

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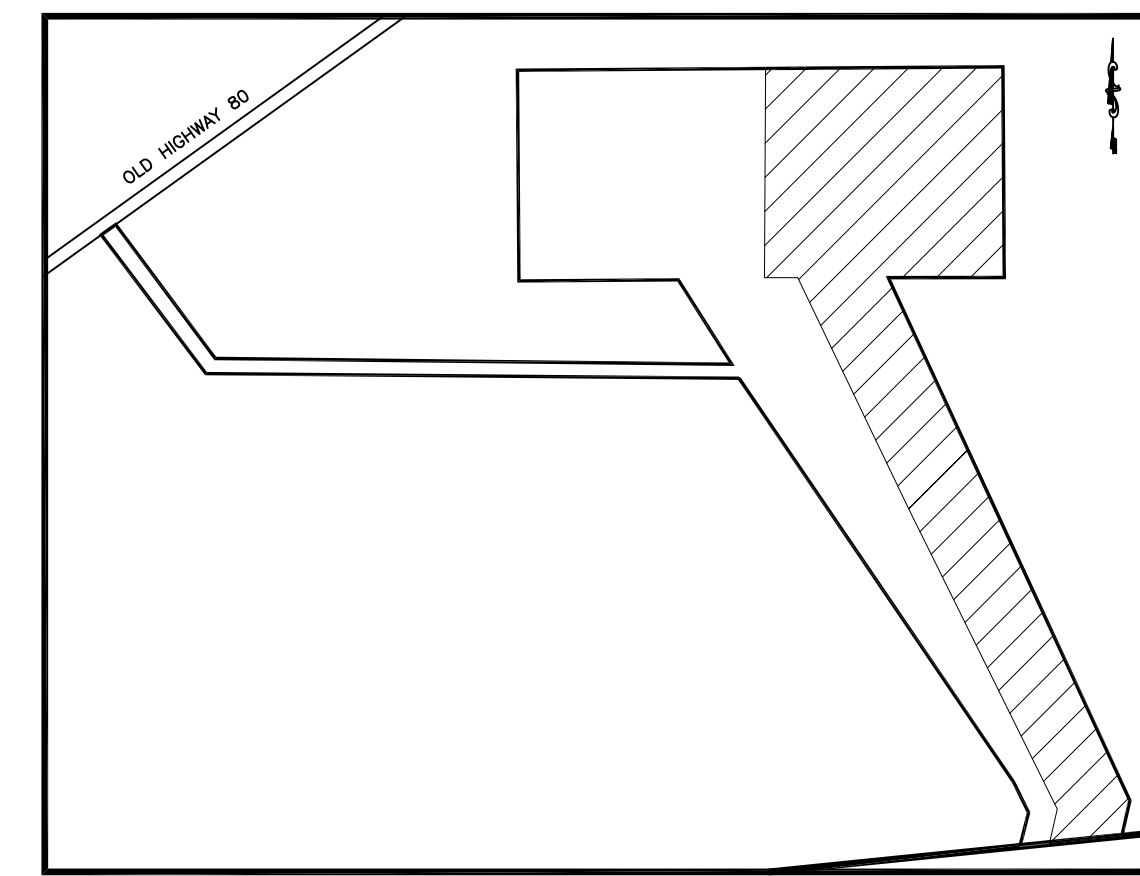
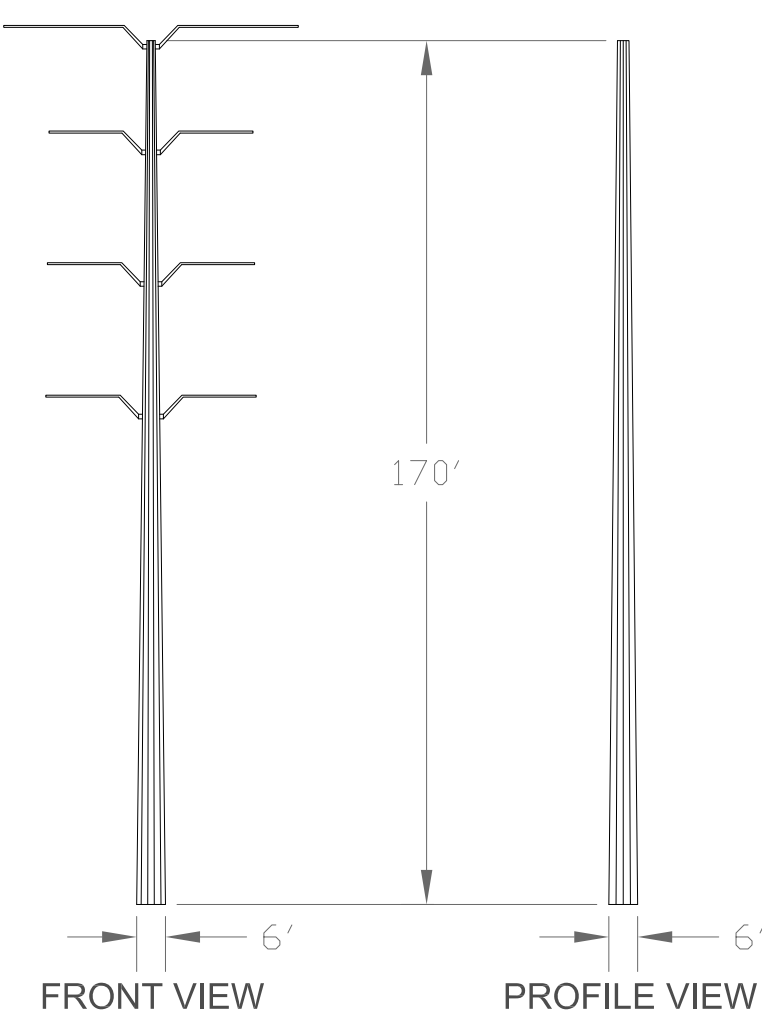
### 500 kV MONOPOLE PROFILE

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 500kV STEEL MONOPOLE

#### TYPICAL 500kV STEEL MONOPOLE



KEY PLAN  
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24-HR CONTACT: TBD

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**ESJ U.S.**  
500 kV GEN-TIE LINE ALTERNATIVE  
MONOPOLE TOWER PLAN/PROFILE

project 52573	contract
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drawing **P08** - rev. **1**

sheet 8 of 10 sheets  
file ESJ-BASE11.DWG



EXISTING SWPL 500kV T/L

FUTURE 500kV YARD BY SDG&E  
(FINAL DIMENSIONS SUBJECT TO  
CHANGE BY SDG&E)

PROPOSED 28' PROJECT ACCESS (PA) ROAD  
CLEARING, GRUBBING, & GRADING REQUIRED  
(24' TO BE IMPROVED WITH DECOMPOSED  
GRANITE PER COUNTY OF SAN DIEGO AND  
RURAL FIRE PROTECTION DISTRICT STANDARDS)

PROPOSED PROJECT ACCESS ROAD (PA)  
TURN AROUND W/ MINIMUM 36' RADIUS.

WIRE STRINGING  
& CONSTRUCTION  
STAGING AREA

PARKING  
AREA

PERMANENT ESJ U.S. ROW

APN# 661-050-04

APN# 661-041-05

30' FIRE CLEARING  
LIMITS TO BE  
MAINTAINED AT  
ALL TIMES

PROPOSED 500kV  
STEEL LATTICE TOWER  
(TYPICAL)

PROPOSED 12' DIRT  
GEN-TIE ROAD

PROPOSED 500kV  
STEEL LATTICE TOWER  
(TYPICAL)

PERMANENT ESJ U.S. ROW

30' FIRE CLEARING  
LIMITS TO BE  
MAINTAINED AT  
ALL TIMES

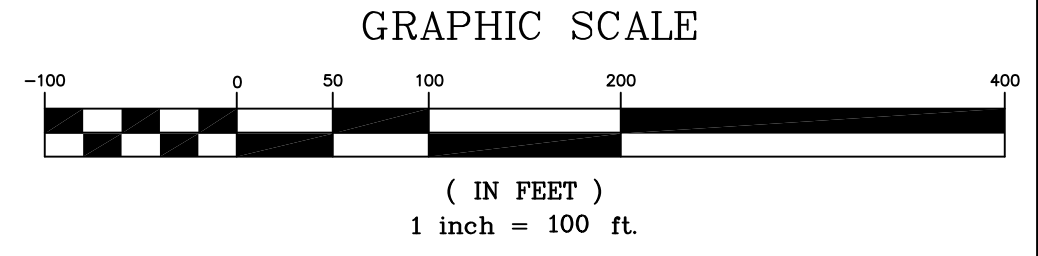
PROPOSED 28' PROJECT ACCESS (PA) ROAD  
CLEARING, GRUBBING, & GRADING REQUIRED  
(24' TO BE IMPROVED WITH DECOMPOSED  
GRANITE PER COUNTY OF SAN DIEGO AND  
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APN# 661-041-04

APN# 661-090-04

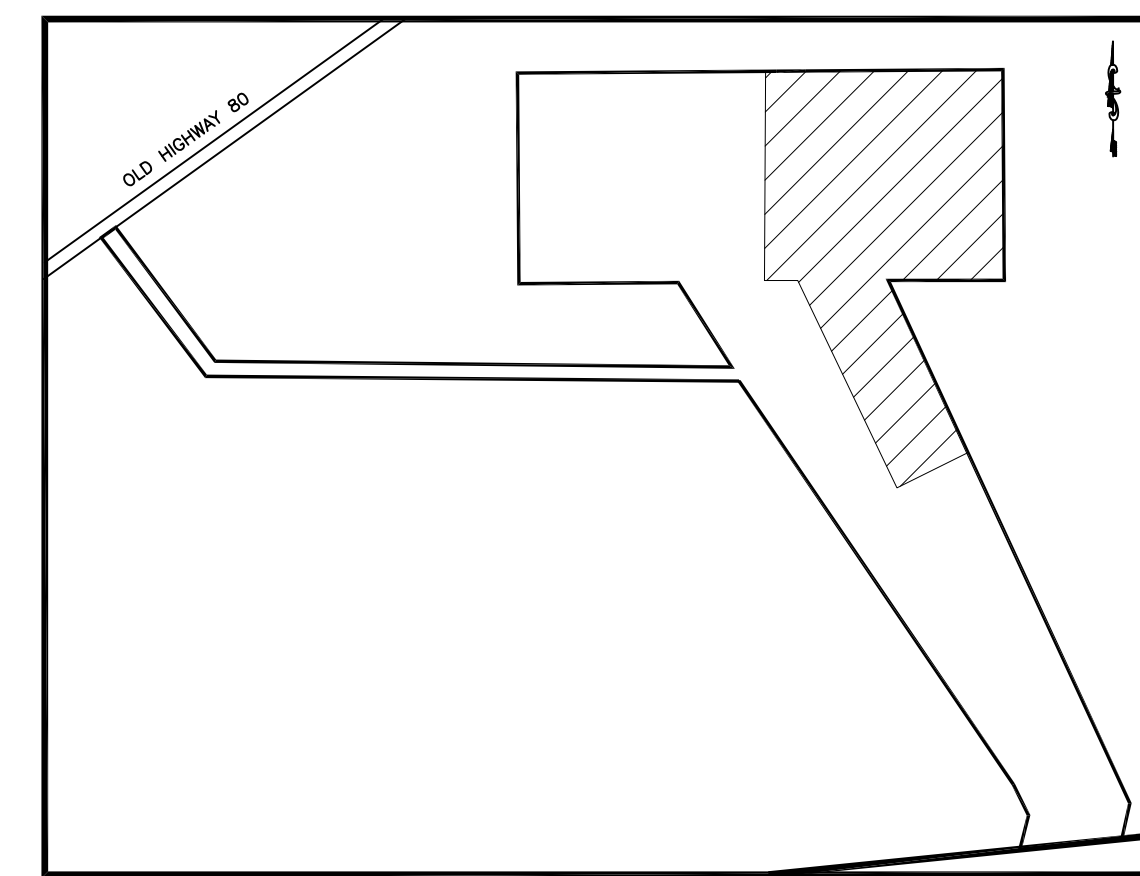
SAN DIEGO COUNTY, CA

**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



KEY PLAN  
NTS



OWNER:  
ESJ U.S. TRANSMISSION LLC.  
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24-HR CONTACT: TBD

date JUNE 1, 2009	detailed J. KANITZ
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MUP 09-008 KIVA 09-0107420	

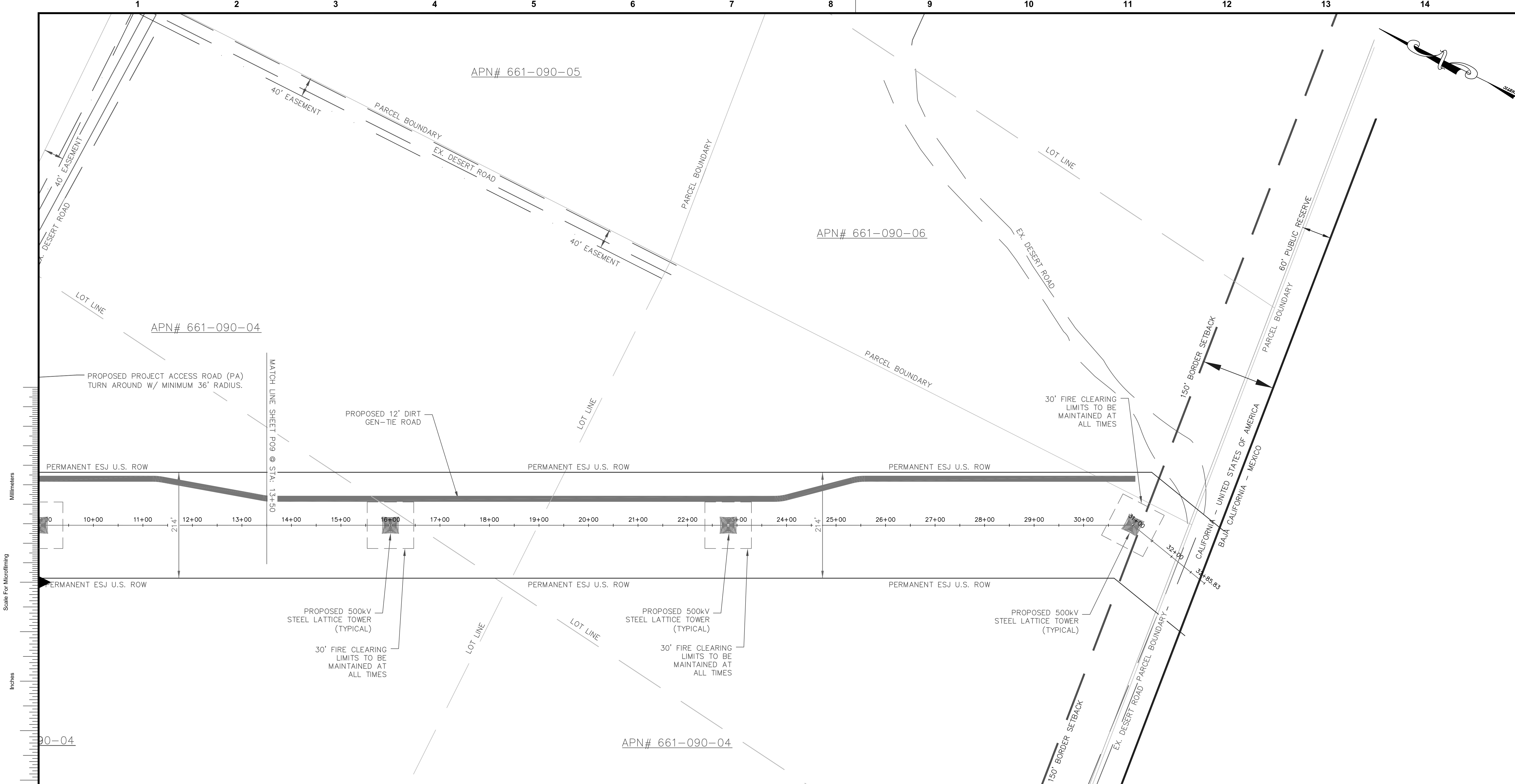
**ESJ U.S.**  
500 kV GEN-TIE LINE ALTERNATIVE  
LAYOUT PLAN

project 52573	contract
drawing <b>P09</b>	rev. <b>1</b>
sheet 9	of 10
file ESJ-BASE11.DWG	

no.	date	by	ckd	description

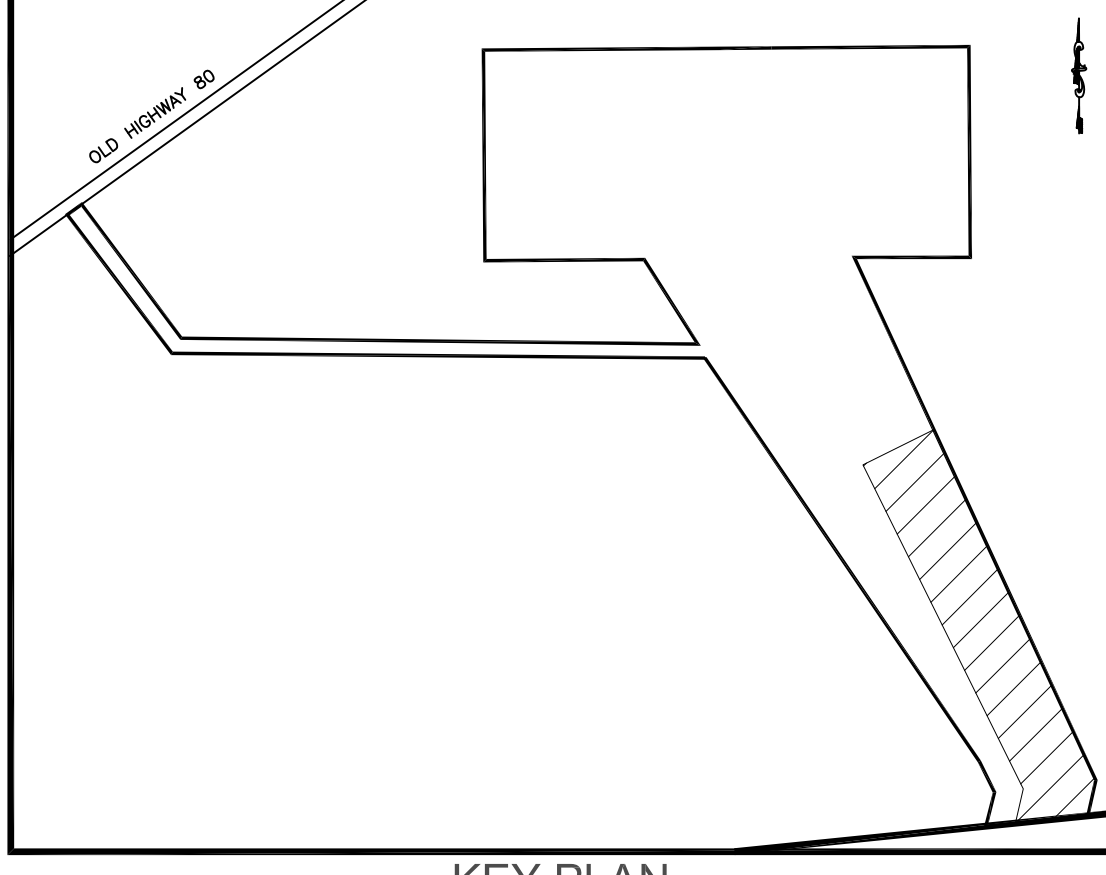
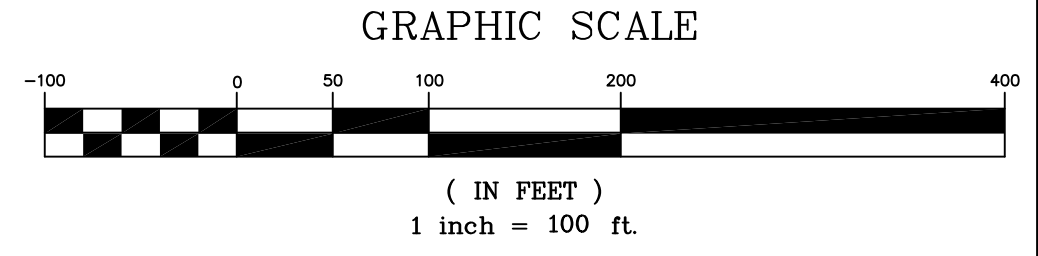
Scale For Microminim  
Millimeters  
Inches

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SAN DIEGO COUNTY, CA

**PRELIMINARY - NOT FOR CONSTRUCTION**



KEY PLAN  
NTS

**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

no.	date	by	ckd	description
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date	JUNE 1, 2009	detailed	J. KANITZ
designed	J. KANITZ	checked	J. STAHLAK

MUP 09-008  
KIVA 09-0107420

**ESJ U.S.**  
500 kV GEN-TIE LINE ALTERNATIVE LAYOUT PLAN

project	52573	contract	
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drawing **P10** - rev. **1**

sheet 10 of 10 sheets  
file ESJ-BASE11.DWG



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