

ESJ U.S.

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

June 2009

52573

Preliminary Grading Plans

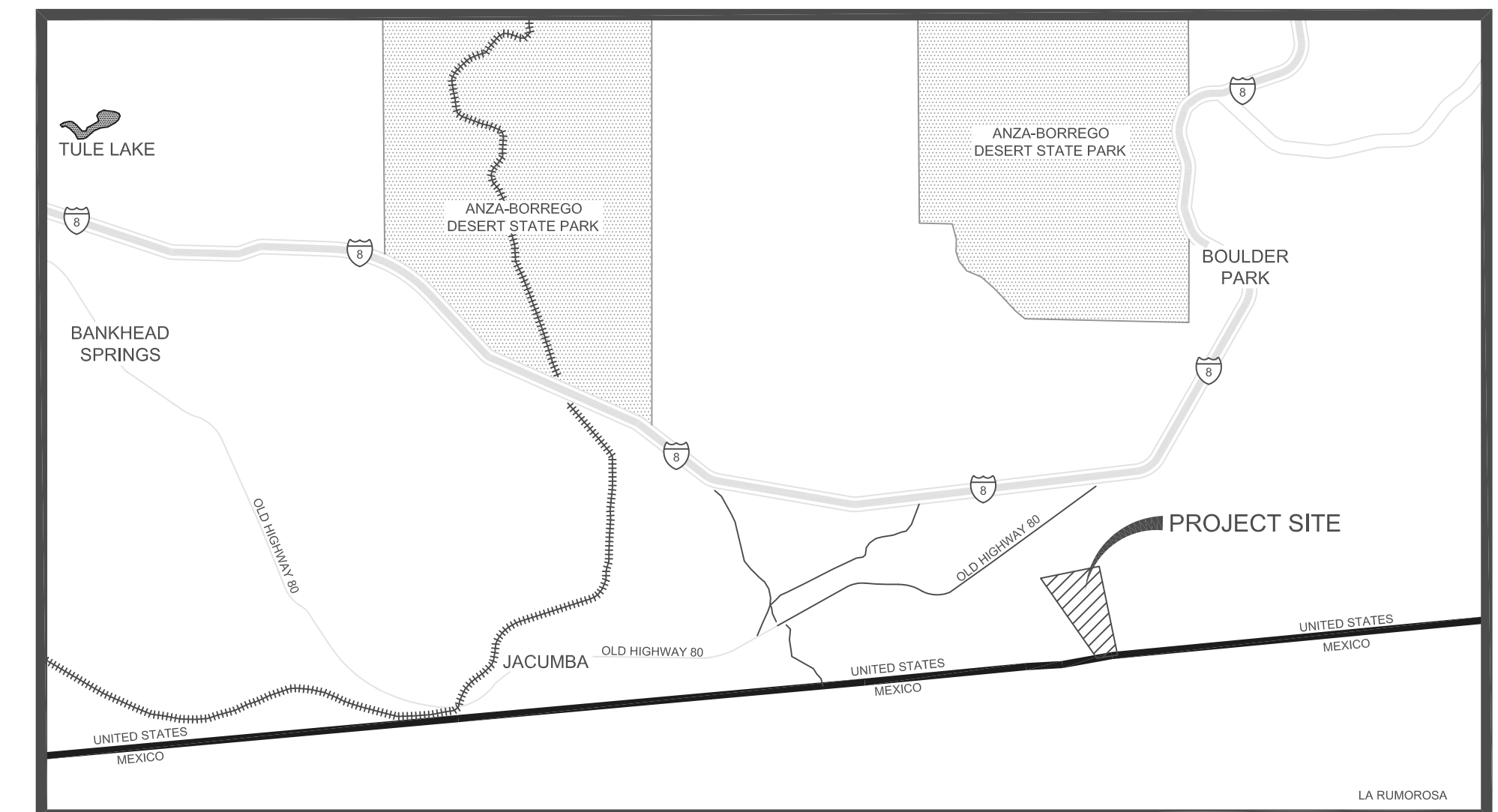
DRAWING LIST

DWG. NO.	REVISION	TITLE
C01	1	COVER-INDEX
C02	1	OVERALL PRELIM. GRADING & EROSION CONTROL PLAN
C03	1	230KV ALTERNATIVE PRELIM. GRADING & EROSION CONTROL PLAN SHEET 1 OF 2
C04	1	230KV ALTERNATIVE PRELIM. GRADING & EROSION CONTROL PLAN SHEET 2 OF 2
C05	1	500KV ALTERNATIVE PRELIM. GRADING & EROSION CONTROL PLAN SHEET 1 OF 2
C06	1	500KV ALTERNATIVE PRELIM. GRADING & EROSION CONTROL PLAN SHEET 2 OF 2
C07	1	GRADING & EROSION CONTROL DETAILS
C08	1	PROJECT DRAINAGE MAP



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
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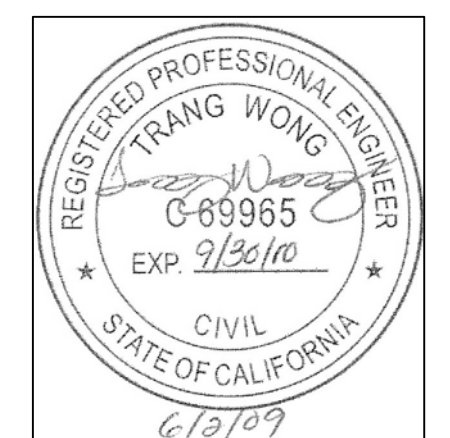
PROJECT PARCEL #'s:
APN 661-080-10
APN 661-090-04
APN 661-090-05
APN 661-090-06

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.



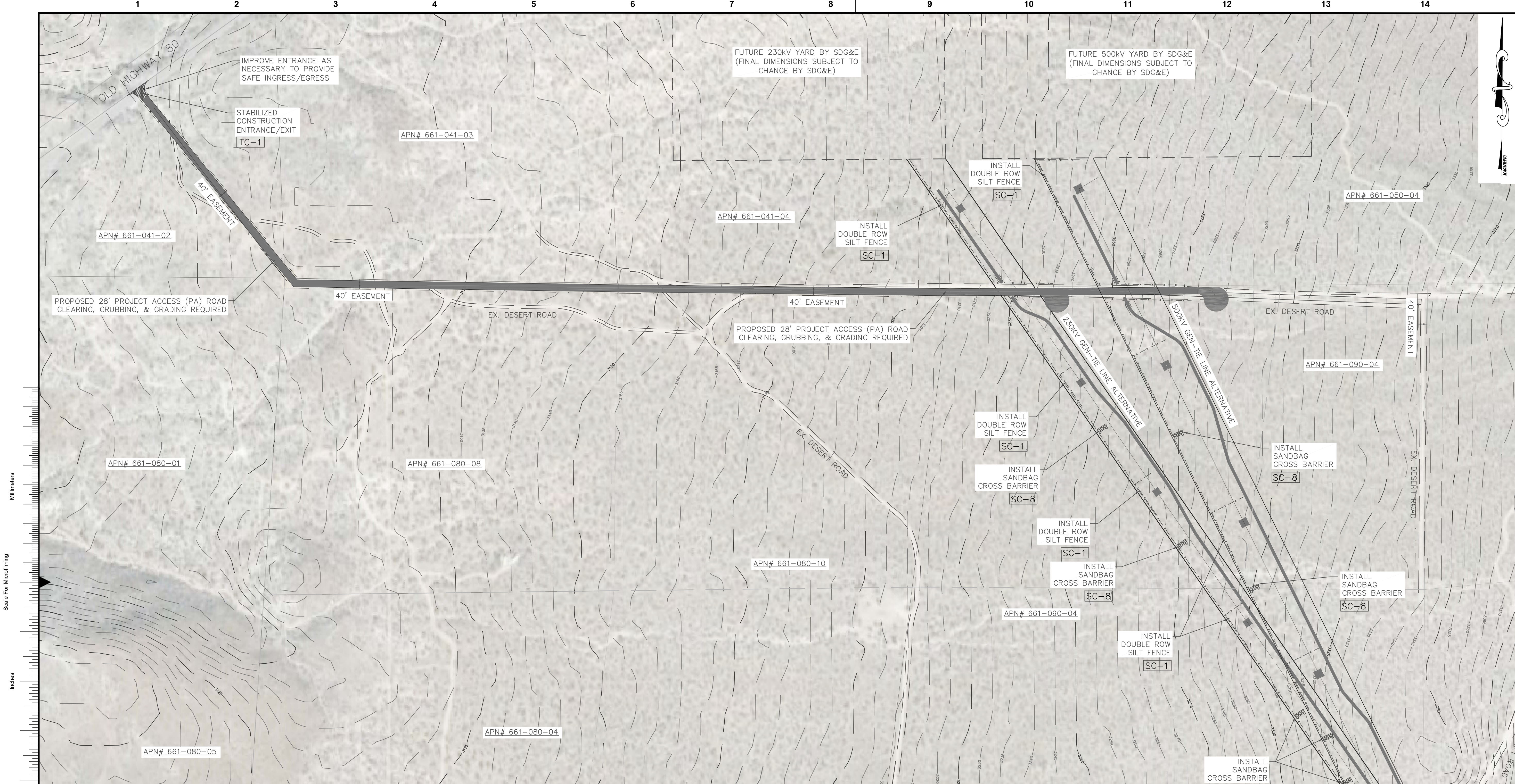
NOTE:
DEPICTION OF SDG&E'S ECO SUBSTATION IS APPROXIMATE AND SUBJECT TO FINAL DESIGN BY SDG&E.

no.	date	by	ckd	description



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

C01



SAN DIEGO COUNTY, CA

EROSION CONTROL LEGEND

- SC-1 TEMPORARY SILT FENCE
- WM-3 STOCKPILE MANAGEMENT
- WE-1 WIND EROSION CONTROL
- SC-8 SANDBAG CROSS BARRIER
- TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT

*SEE SHEET C07 FOR GRADING & EROSION CONTROL DETAILS

NOTE:
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EROSION CONTROL NOTES

1. SILT FENCE TO BE INSTALLED ON ALL RIGHT-OF-WAY LINES WHERE SILT MAY LEAVE PROJECT AREA. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE PERFORMED UNTIL SILT BARRIER INSTALLATION IS COMPLETE.
2. CROSS BARRIERS TO BE INSTALLED EVERY 492 ft. (150 m) ALONG EACH REACH OF SILT FENCE.
3. LEAVE SILT FENCE IN PLACE UNTIL FINAL STABILIZATION ON PROJECT HAS OCCURRED.
4. ANY DISTURBED AREA LEFT EXPOSED FOR 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
5. EROSION CONTROL MEASURES TO BE MAINTAINED AT ALL TIMES.
6. ALL SLOPES STEEPER THAN 3:1 SHALL BE COVERED WITH EROSION CONTROL BLANKET.
7. TO REDUCE WIND EROSION, ALL TEMPORARY DISTURBED AREAS SHALL BE WETTED AS NECESSARY.
8. ALL TEMPORARILY DISTURBED AREAS SHALL BE RE-VEGETATED AFTER CONSTRUCTION IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN, OR AS REQUIRED BY SAN DIEGO COUNTY. A 30' BUFFER WILL REMAIN UNVEGETATED AROUND EACH TOWER FOR FIRE PROTECTION.
9. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AS SPECIFIED BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION CONSTRUCTION SITE BMP MANUAL.

GRADING NOTES

1. SITE TO BE ACCESSED VIA A 28' WIDE LEGAL PROJECT ACCESS ROAD (PA) (CLEARING, GRUBBING, & GRADING REQUIRED) TO BE INSTALLED AS SHOWN.
2. A 12' WIDE GEN-TIE ROAD SHALL BE INSTALLED WITHIN THE PERMANENT RIGHT OF WAY TO PROVIDE STRUCTURE ACCESS. MAJOR GRADING SHOULD NOT BE NEEDED FOR INSTALLATION OF GEN-TIE ACCESS ROADS.
3. ONLY MINOR GRADING SHOULD BE NECESSARY AT STRUCTURE LOCATIONS.
4. SEE EARTHWORK SUMMARY TABLE (THIS SHEET) FOR A SUMMARY OF THE PROJECT EARTHWORK.
5. TOPOGRAPHIC INFORMATION BASED ON U.S.G.S. NATIONAL ELEVATION DATA SET.

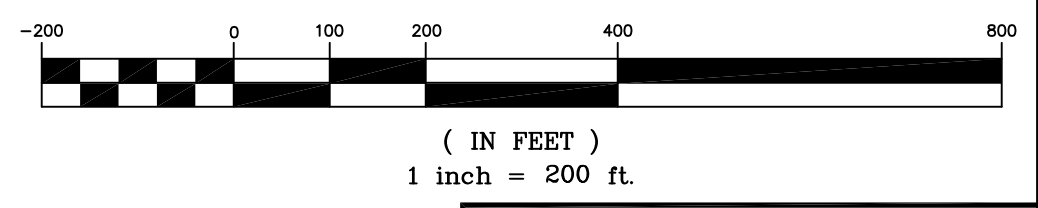
EARTHWORK SUMMARY

TASK	230 kV ALTERNATIVE	500 kV ALTERNATIVE
PROJECT ACCESS ROAD	10,852 CY (CUT) 1,550 CY (FILL) 9,302 CY (NET EXPORT)	14,729 CY (CUT) 2,602 CY (FILL) 12,127 CY (NET EXPORT)
GEN TIE ROADS	BALANCED (NO NET IMPORT/EXPORT)	BALANCED (NO NET IMPORT/EXPORT)
PAD GRADING	910 CY (IMPORT)	580 CY (IMPORT)
FOUNDATION EXCAVATION	300 CY (EXPORT)	600 CY (EXPORT)
NET PROJECT EARTHWORK	8,692 CY (EXPORT)	12,147 CY (EXPORT)

OWNER:
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24-HR CONTACT: TBD

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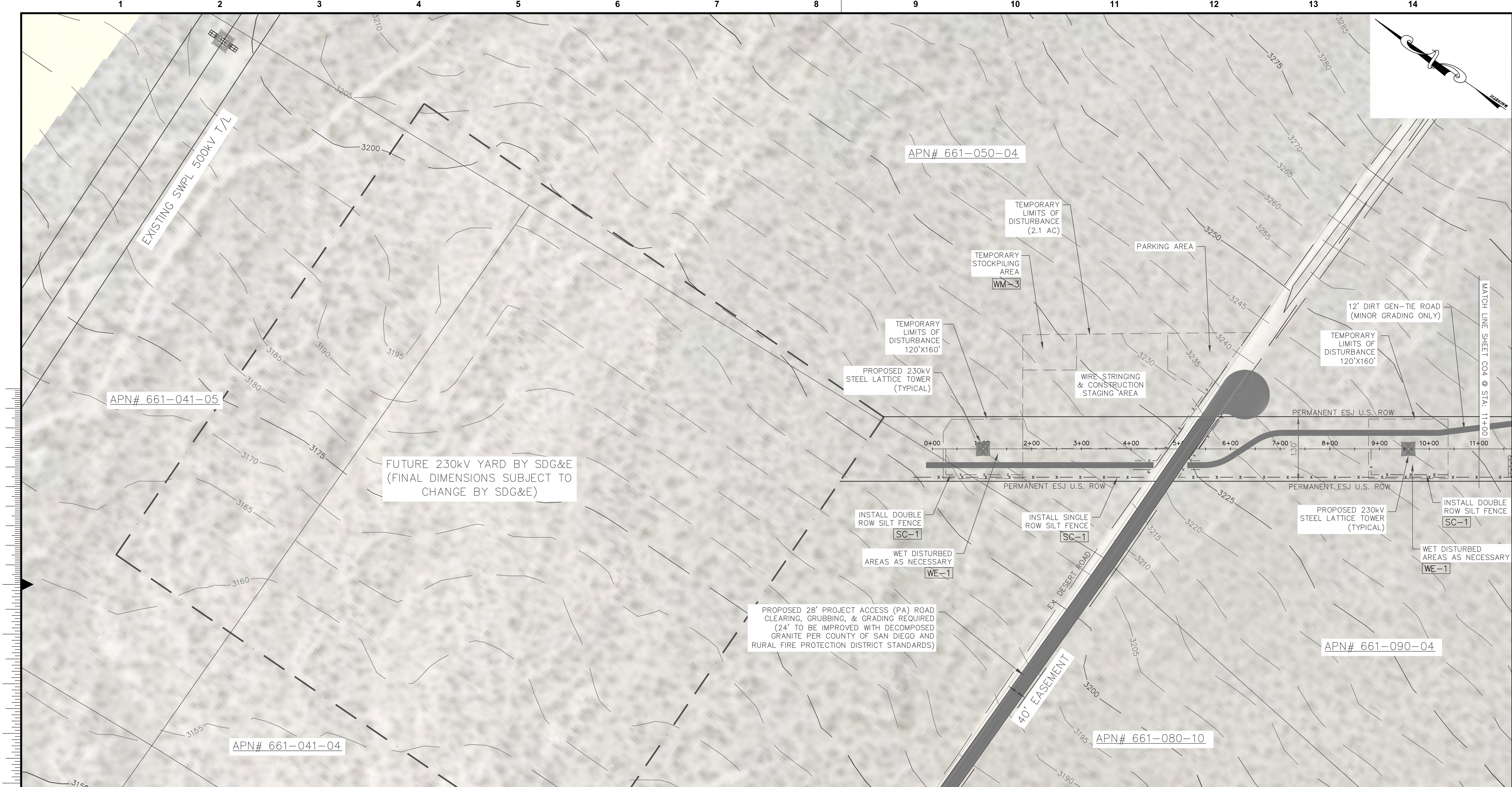
date JUNE 1, 2009	detailed J. KANITZ
designed J. KANITZ	checked J. STAHULAK

MUP 09-008
KIVA 09-0107420

ESJ U.S.
230kV & 500kV GEN-TIE LINE ALTERNATIVES
OVERALL PRELIMINARY GRADING
& EROSION CONTROL PLAN

project 52573	contract
drawing C02	rev. 1
sheet 2	of 8
file ESJ-BASE11.DWG	

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Scale For Microminim
 Millimeters
 Inches

EROSION CONTROL LEGEND

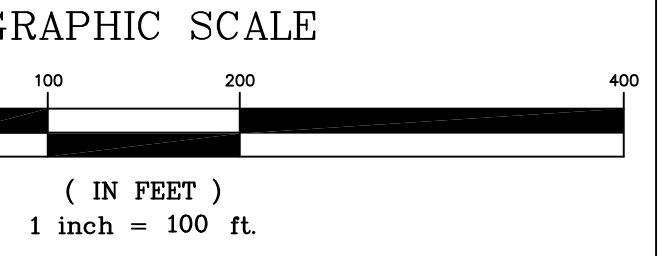
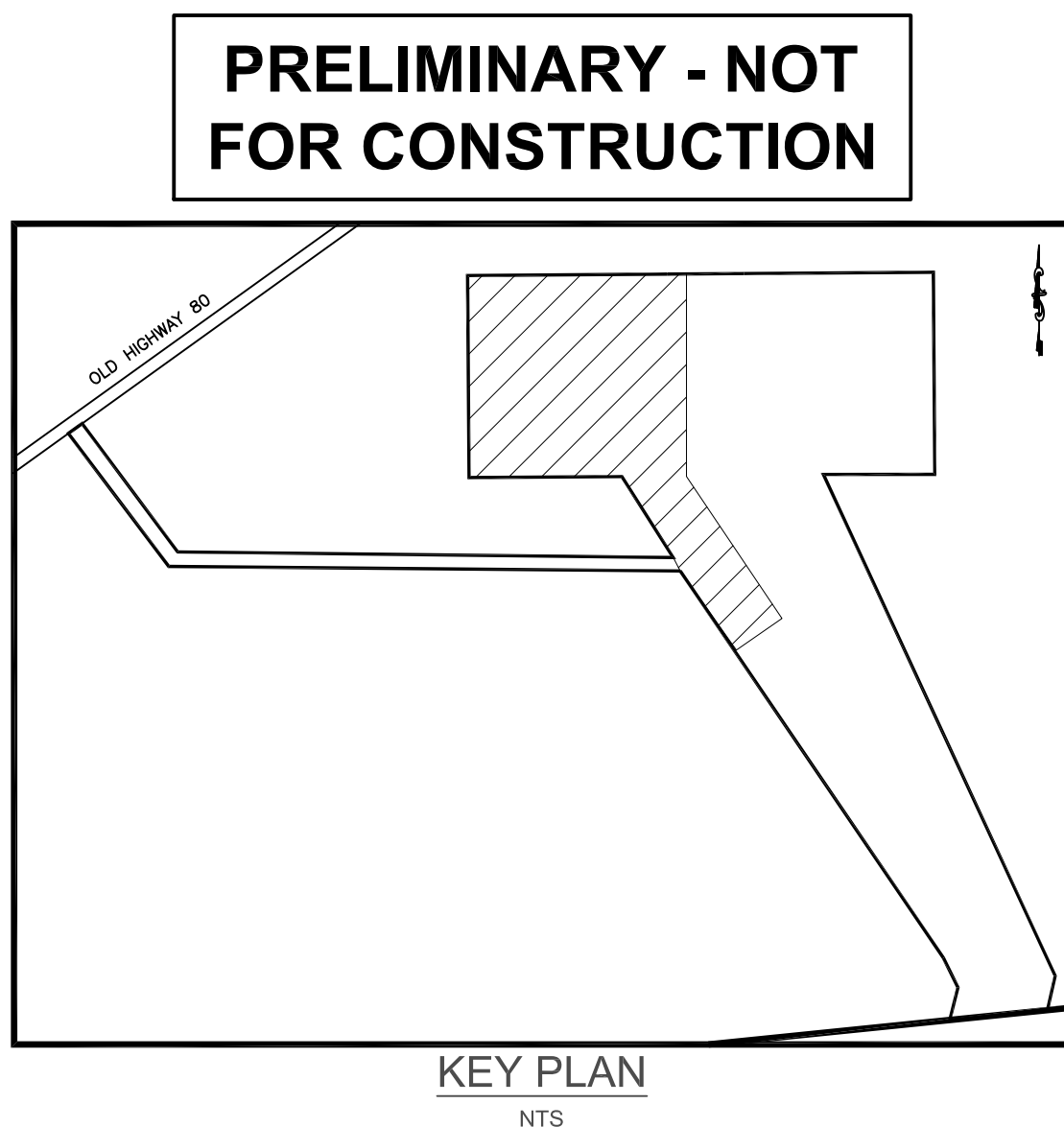
SC-1	— x —	TEMPORARY SILT FENCE
WM-3		STOCKPILE MANAGEMENT
WE-1		WIND EROSION CONTROL
SC-8		SANDBAG CROSS BARRIER
TC-1		STABILIZED CONSTRUCTION ENTRANCE/EXIT

EROSION CONTROL NOTES

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- SEE EARTHWORK SUMMARY TABLE ON SHEET C01 FOR A SUMMARY OF THE PROJECT EARTHWORK.
- TOPOGRAPHIC INFORMATION BASED ON U.S.G.S. NATIONAL ELEVATION DATA SET.



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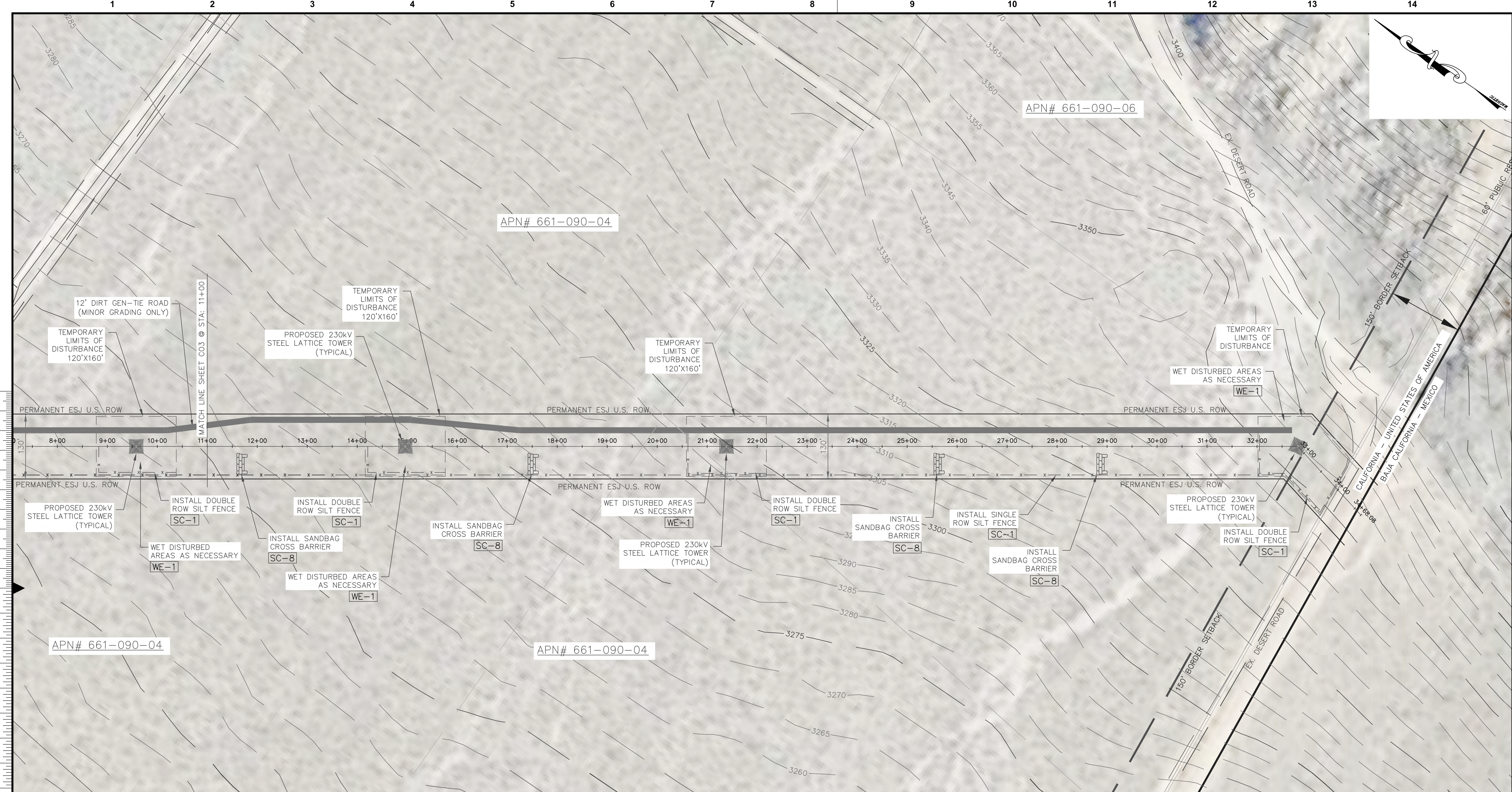


date	JUNE 1, 2009	detailed	J. KANITZ
designed	J. KANITZ	checked	J. STAHLAK
MUP 09-008 KIVA 09-0107420			

ESJ U.S.			
230 kV GEN-TIE LINE ALTERNATIVE PRELIMINARY GRADING & EROSION CONTROL PLAN			
project	52573	contract	
drawing	C03	rev.	1
sheet	3	of	8
file ESJ-BASE11.DWG			

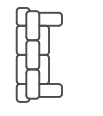
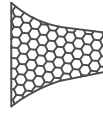
SAN DIEGO COUNTY, CA

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EROSION CONTROL LEGEND

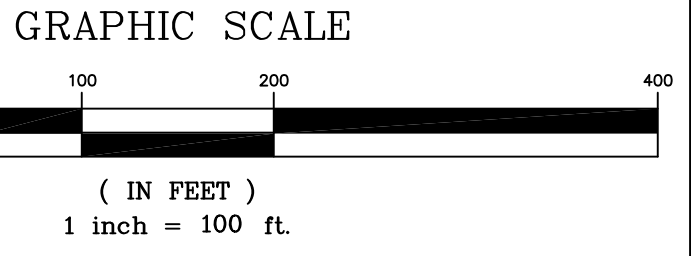
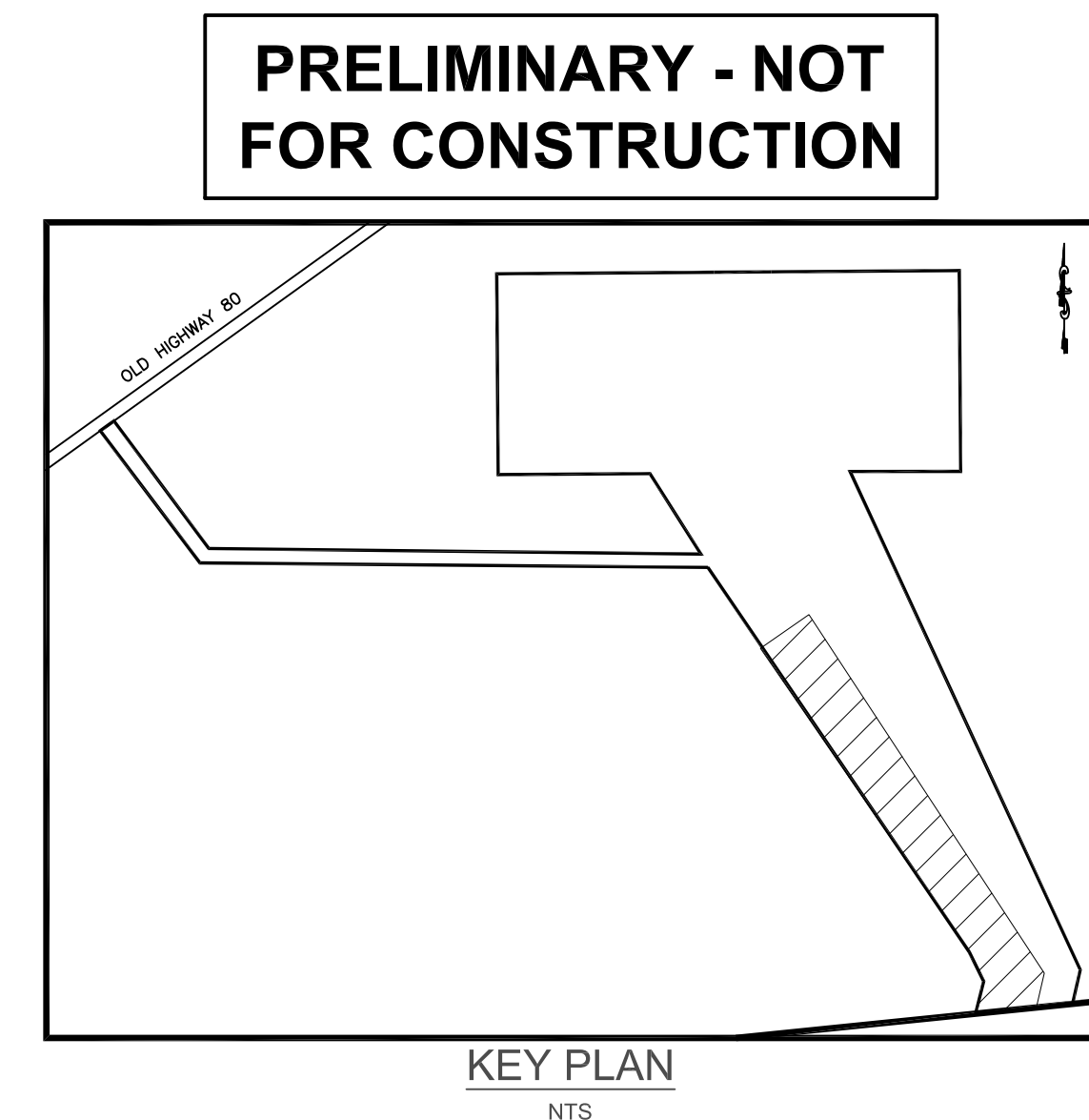
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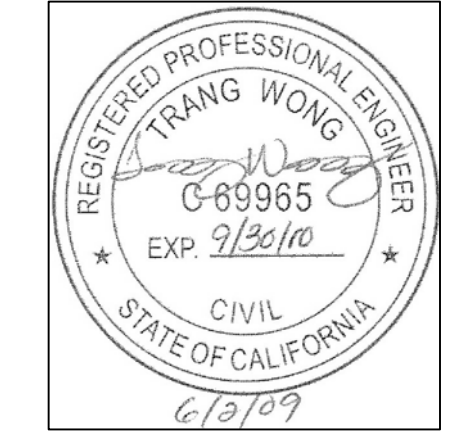
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24-HR CONTACT: TBD

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

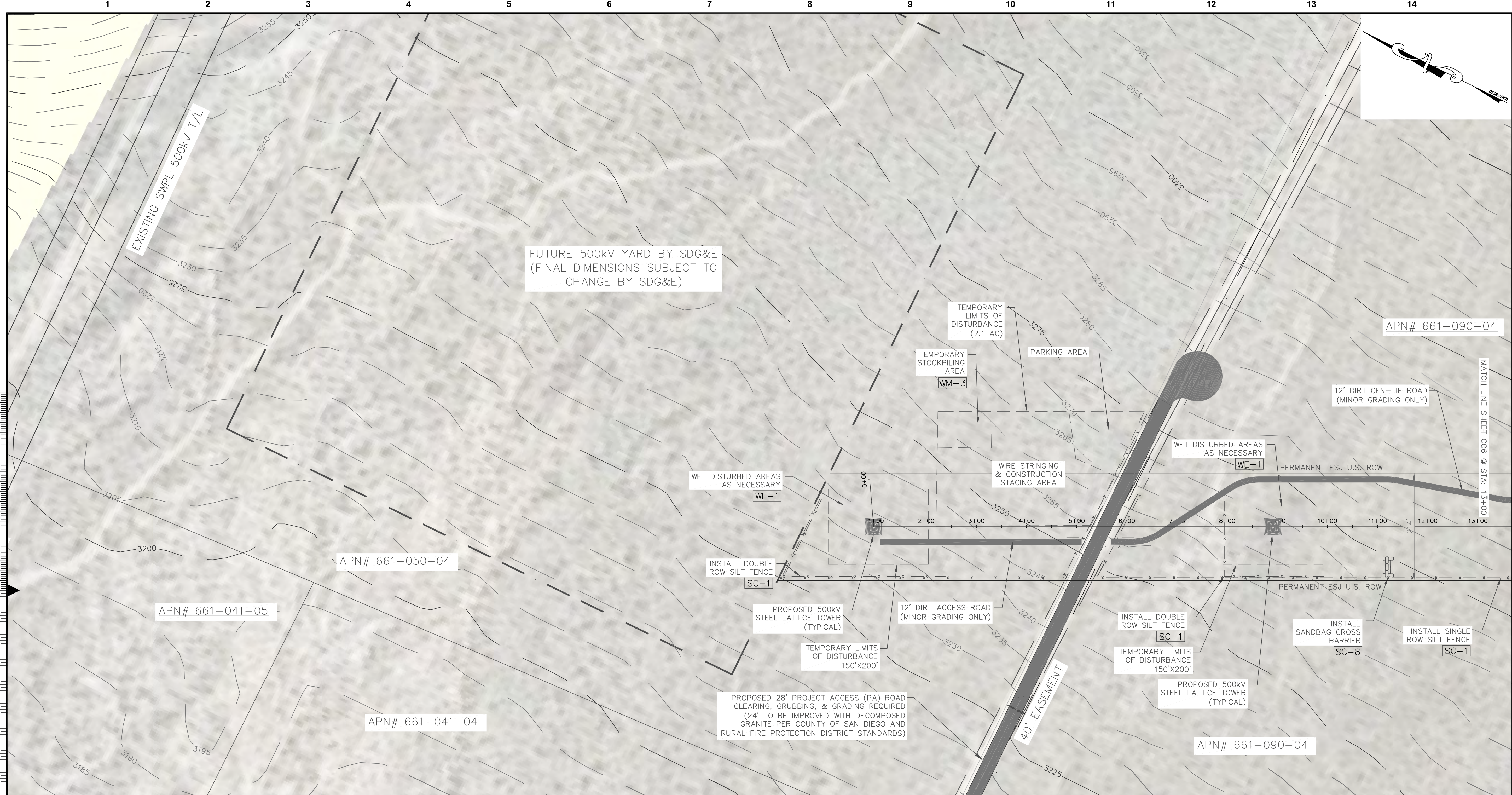
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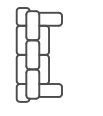
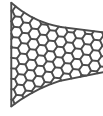
ESJ U.S.	
230 kV GEN-TIE LINE ALTERNATIVE PRELIMINARY GRADING & EROSION CONTROL PLAN	
project	contract
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drawing	rev.
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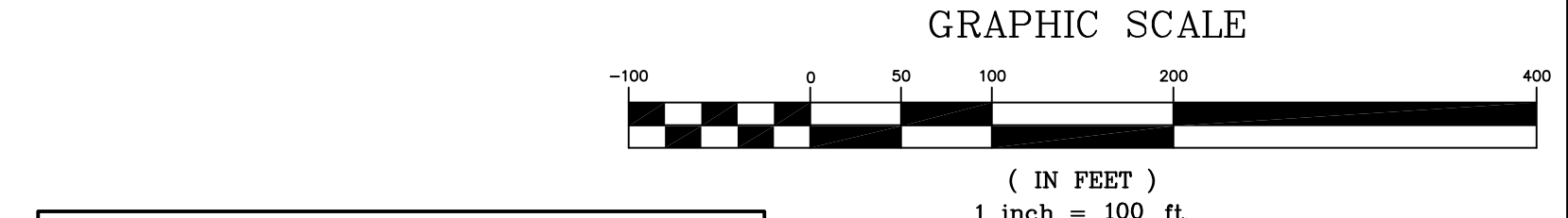
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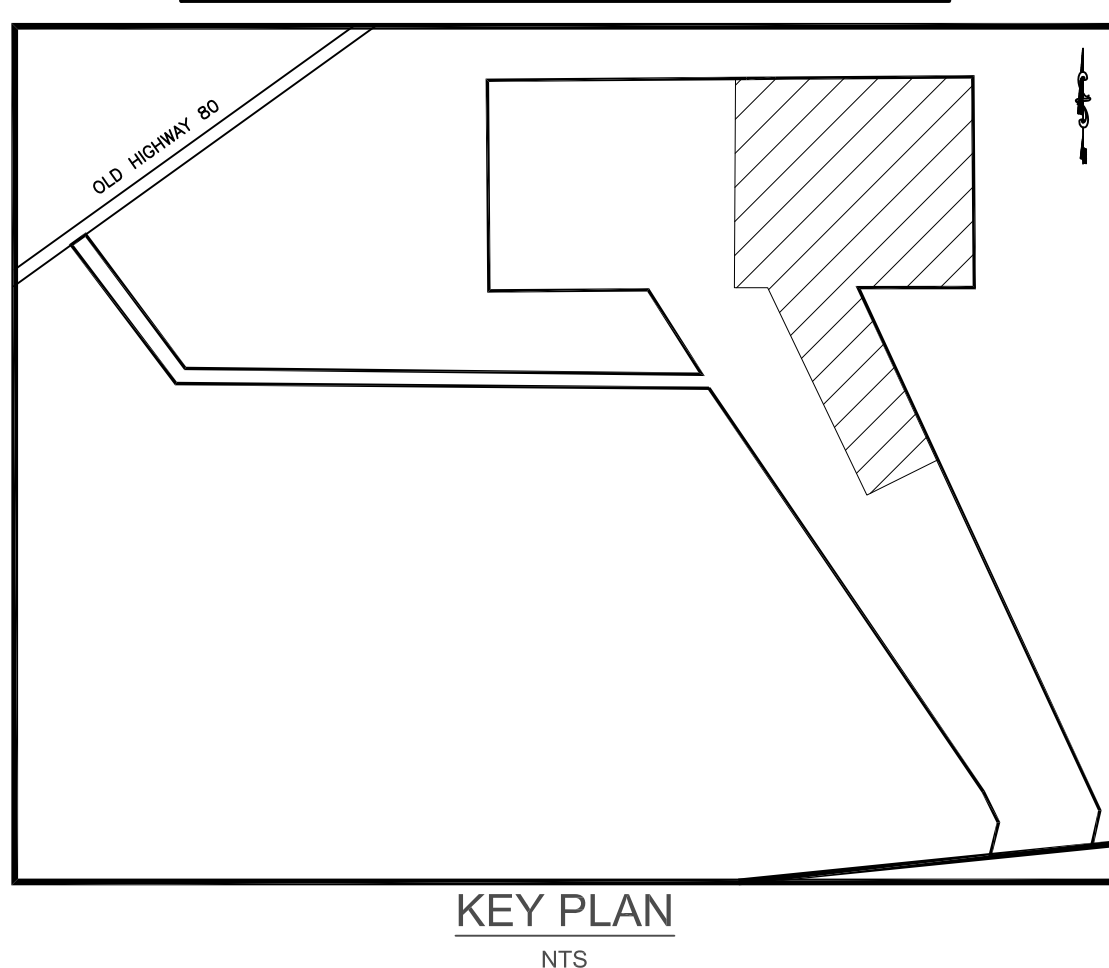
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SAN DIEGO COUNTY, CA

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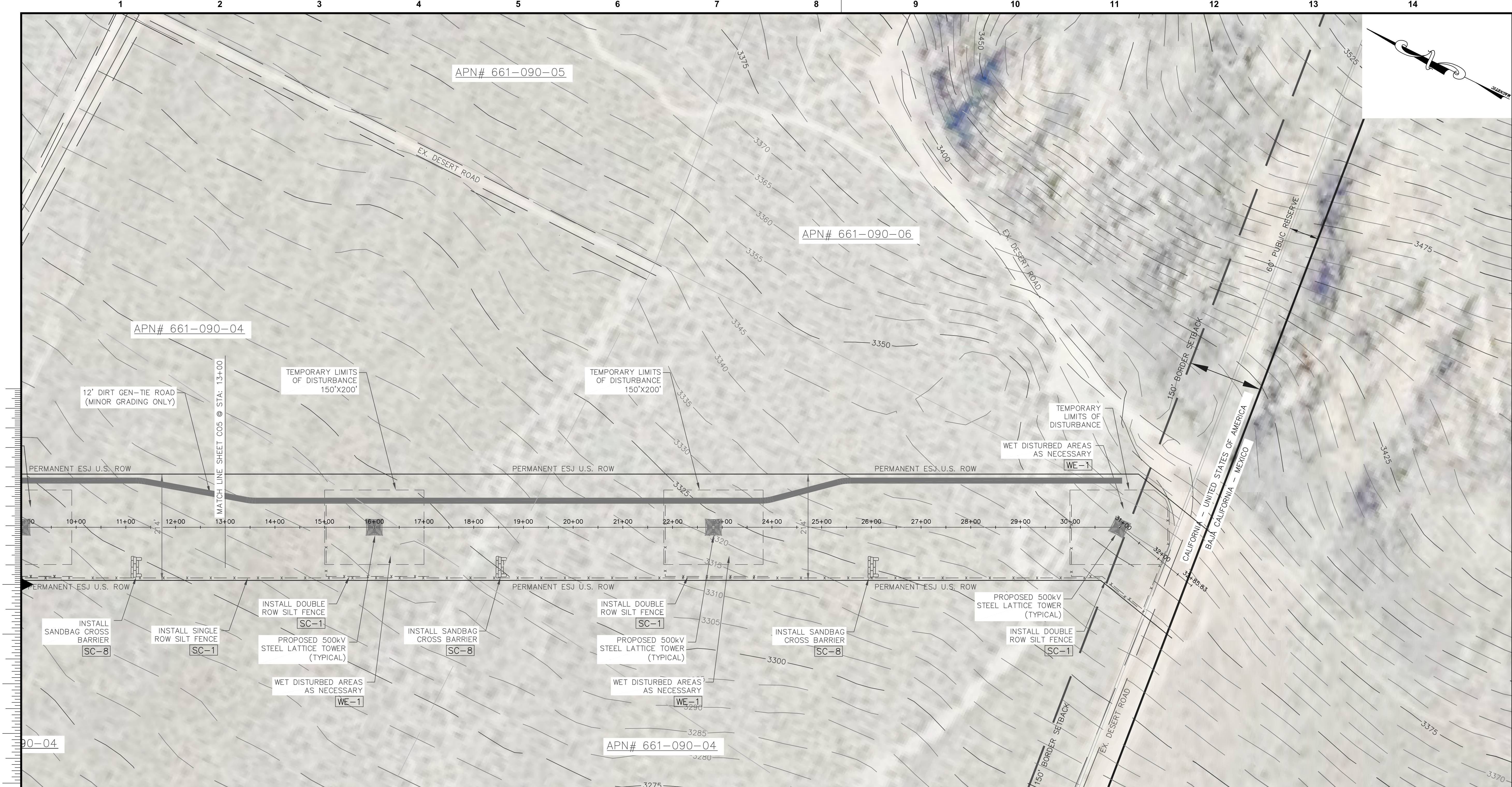


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sheet 5 of 8 sheets file ESJ-BASE11.DWG	

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Scale For Micromining
Scale For Microfinishing
Inches

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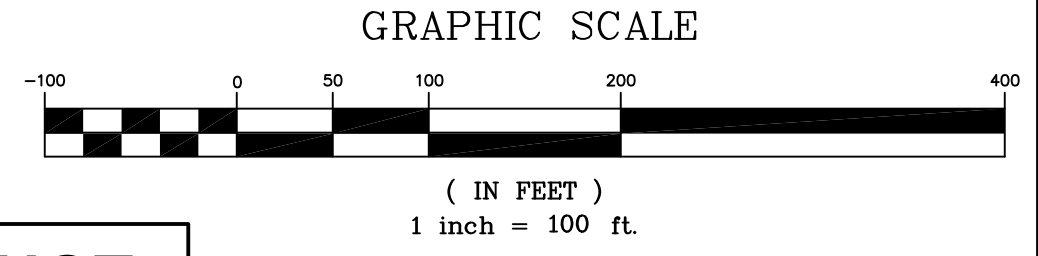
SAN DIEGO COUNTY, CA

EROSION CONTROL NOTES

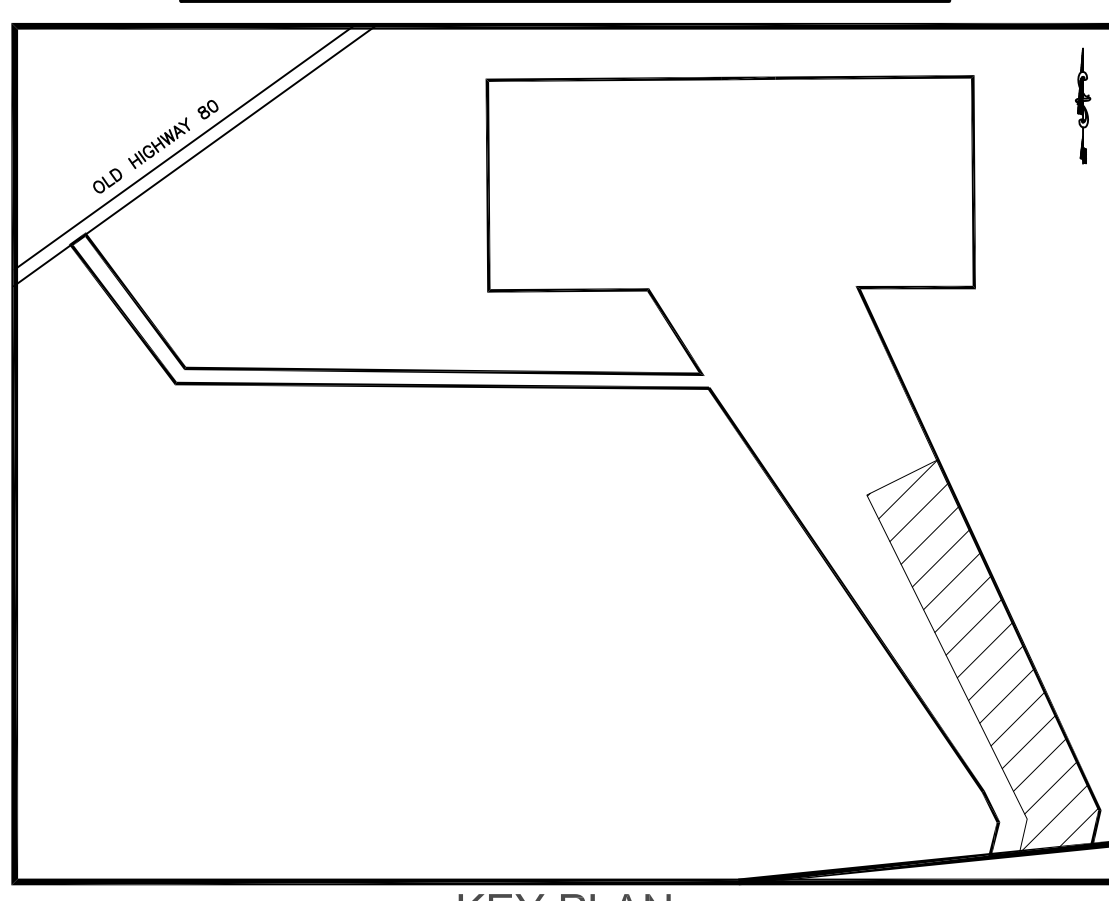
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24-HR CONTACT: TBD

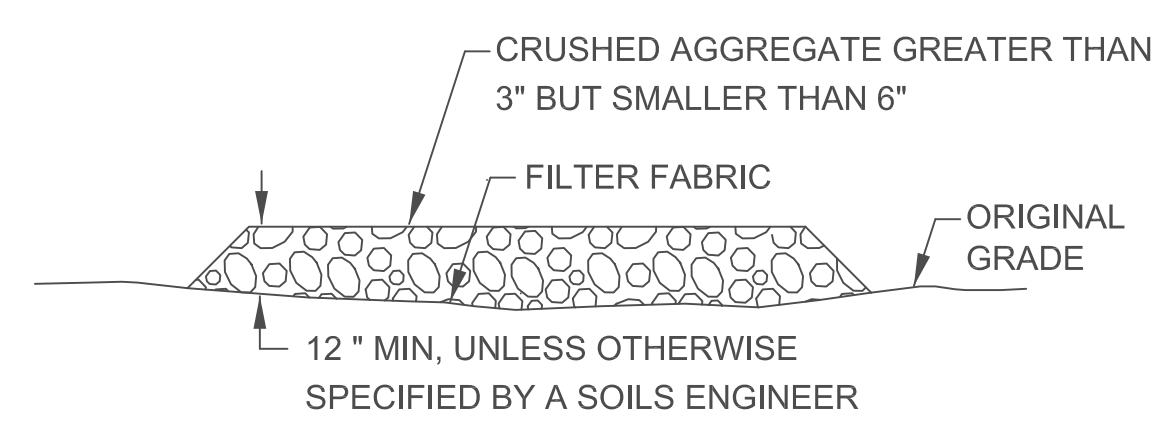
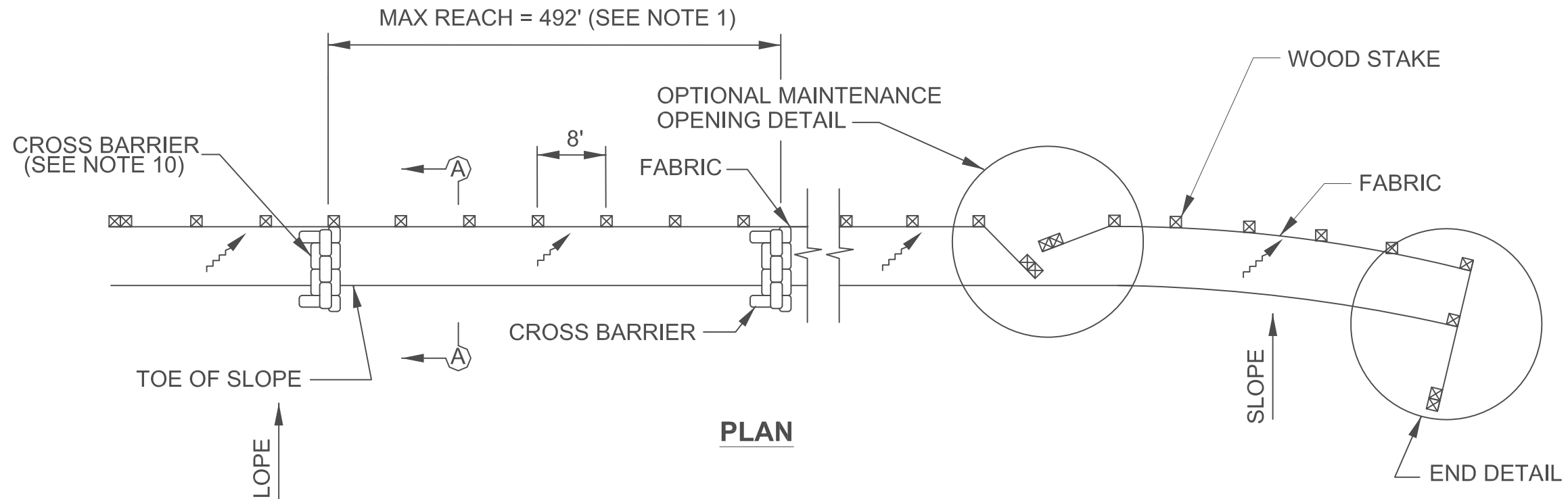


date	JUNE 1, 2009	detailed	J. KANITZ
designed	J. KANITZ	checked	J. STAHULAK

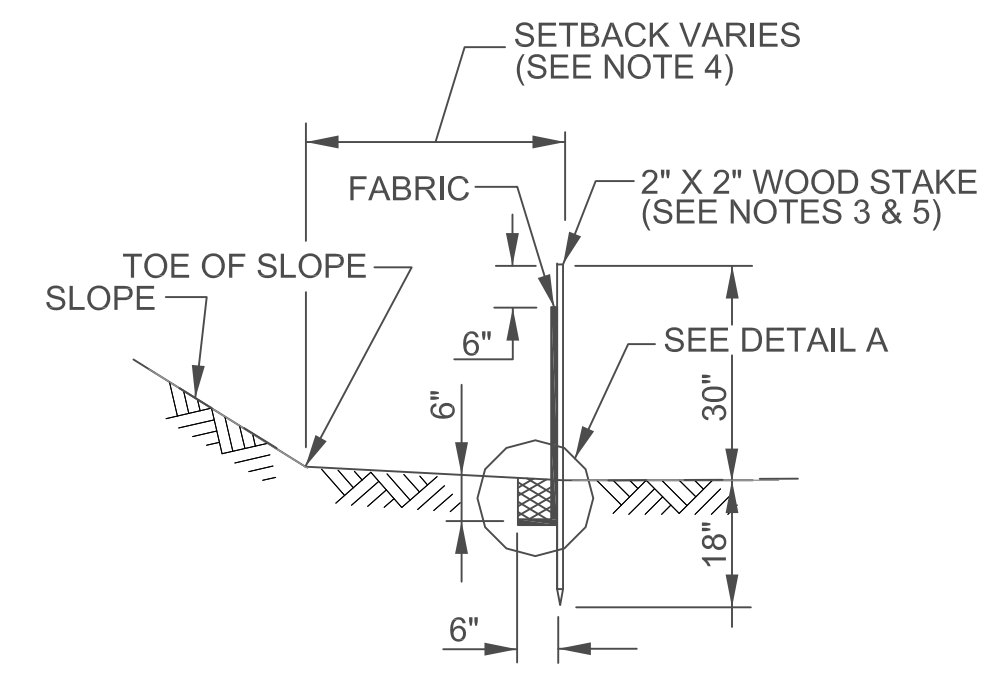
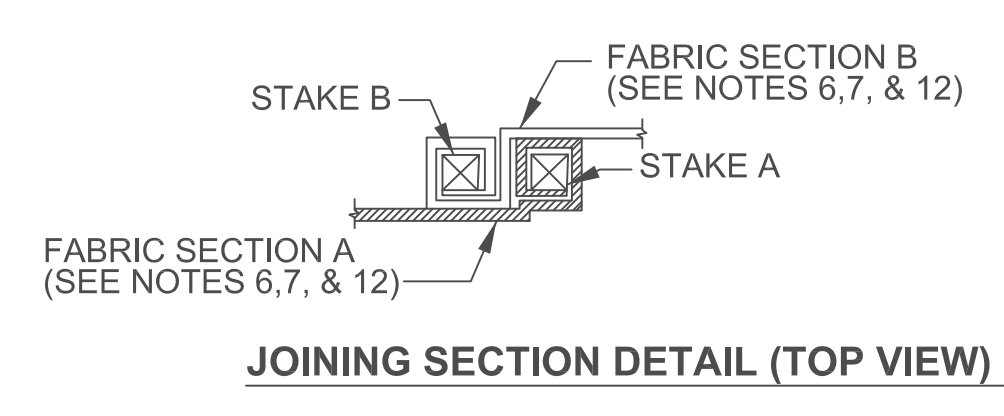
MUP 09-008
KIVA 09-0107420

ESJ U.S.	
500 KV GEN-TIE LINE ALTERNATIVE PRELIMINARY GRADING & EROSION CONTROL PLAN	
project	52573
contract	
drawing	C06
rev.	1
sheet	6 of 8 sheets
file ESJ-BASE11.DWG	

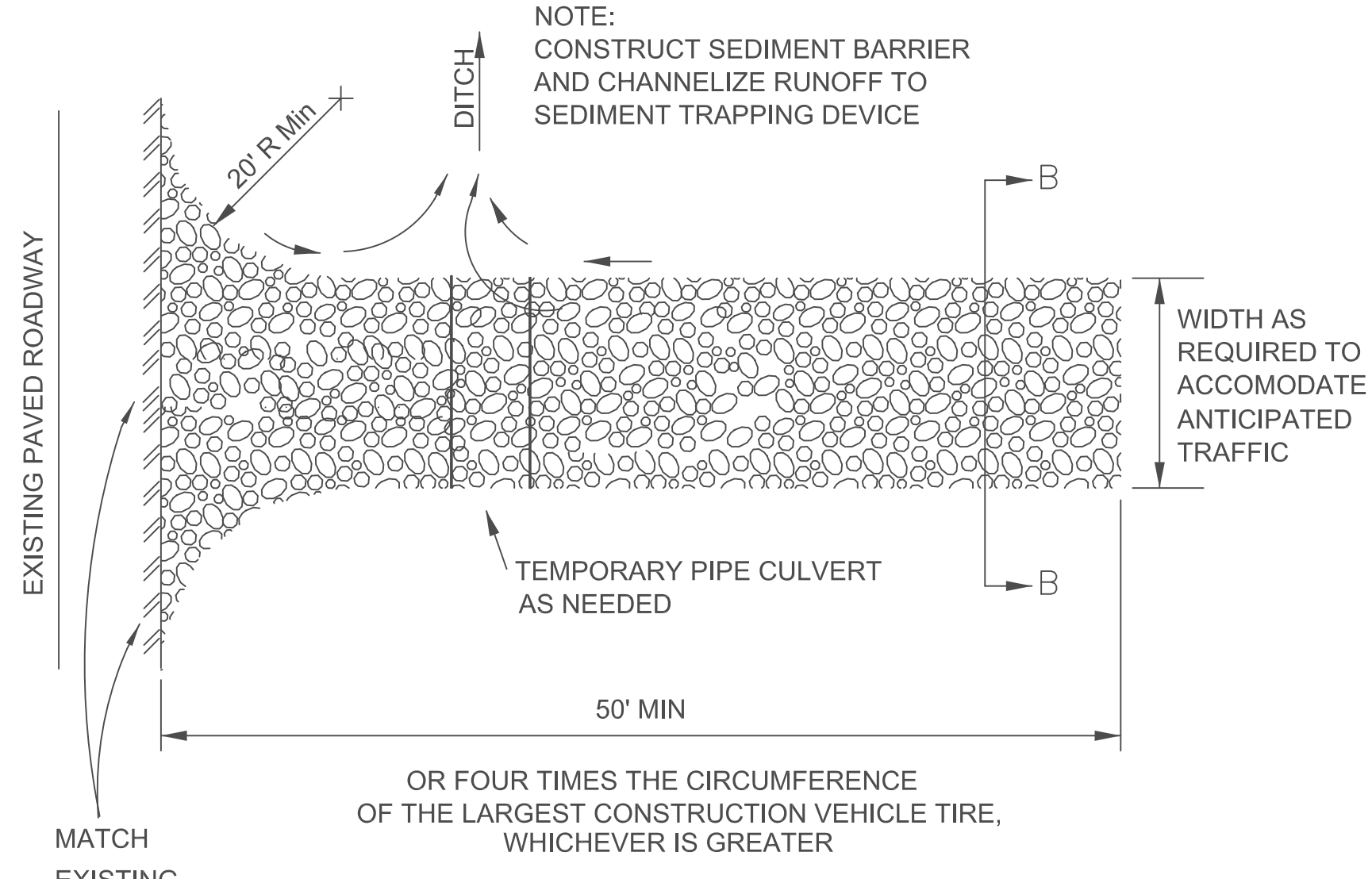
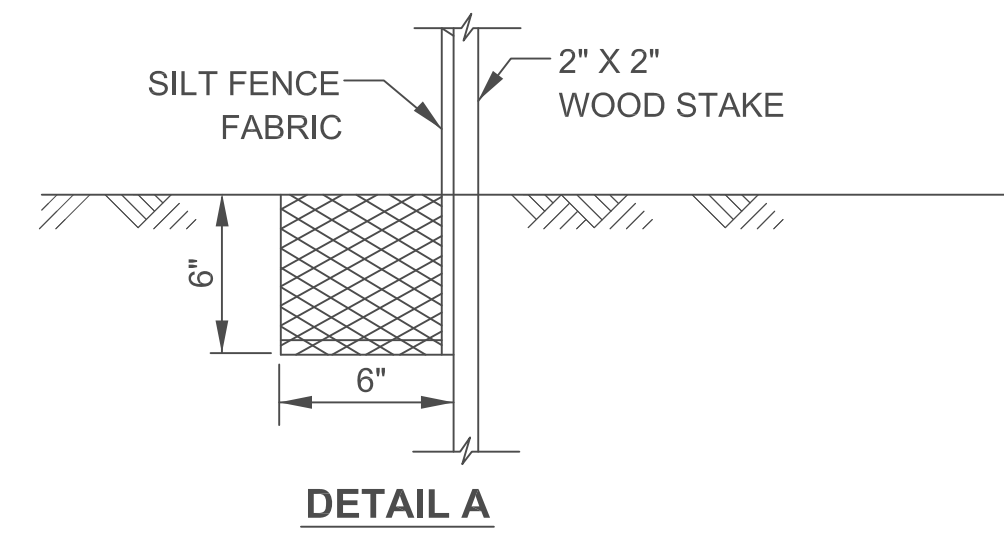
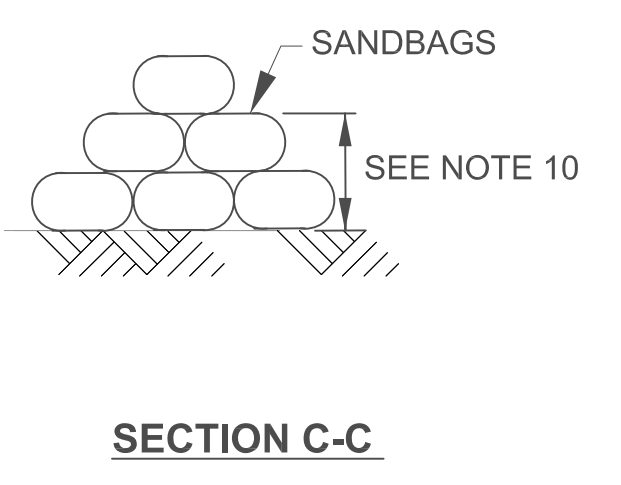
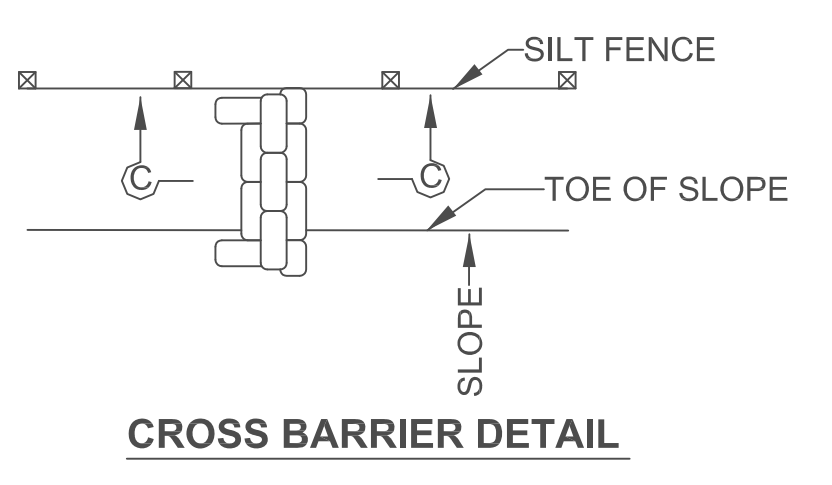
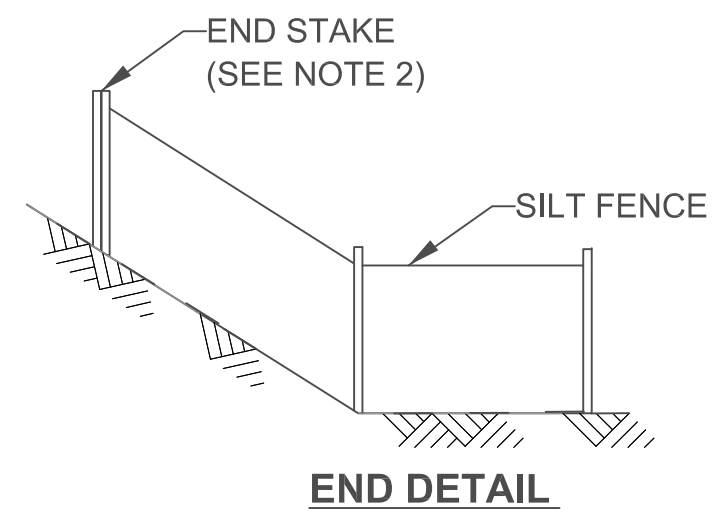
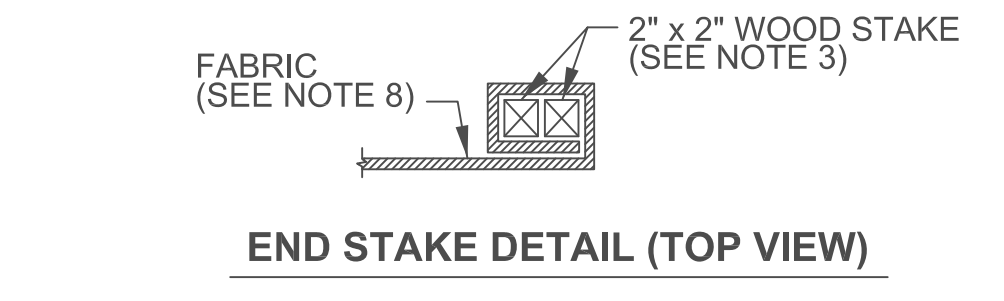
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SECTION B-B NTS



SECTION A-A



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT (TYPE I)
 NO SCALE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 SC-1 TEMPORARY LINEAR SEDIMENT BARRIER (TYPE SILT FENCE)
 NO SCALE

- NOTES**
- CONSTRUCT THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED 1/3 THE HEIGHT OF THE LINEAR BARRIER, IN NO CASE SHALL THE REACH LENGTH EXCEED 492'.
 - THE LAST 8' OF FENCE SHALL BE TURNED UP SLOPE.
 - STAKE DIMENSIONS ARE NOMINAL.
 - DIMENSIONS MAY VARY TO FIT FIELD CONDITION.
 - STAKES SHALL BE SPACED AT 8' MAXIMUM AND SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE.
 - STAKES TO OVERLAP AND FENCE FABRIC TO FOLD AROUND EACH STAKE ONE FULL TURN. SECURE FABRIC TO STAKE WITH 4 STAPLES.
 - STAKES SHALL BE DRIVEN TIGHTLY TOGETHER TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT JOINT. THE TOPS OF THE STAKES SHALL BE SECURED WITH WIRE.
 - FOR END STAKE, FENCE FABRIC SHALL BE FOLDED AROUND TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
 - MINIMUM 4 STAPLES PER STAKE. DIMENSIONS SHOWN ARE TYPICAL.
 - CROSS BARRIERS SHALL BE A MINIMUM OF 1/3 AND A MAXIMUM OF 1/2 THE HEIGHT OF THE LINEAR BARRIER.
 - MAINTENANCE OPENINGS SHALL BE CONSTRUCTED IN A MANNER TO ENSURE SEDIMENT REMAINS BEHIND SILT FENCE.
 - JOINING SECTIONS SHALL NOT BE PLACED AT SUMP LOCATIONS.
 - SANDBAG ROWS AND LAYERS SHALL BE OFFSET TO ELIMINATE GAPS.

no.	date	by	ckd	description
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ESJ U.S.
 GEN-TIE LINE
 GRADING & EROSION CONTROL DETAILS

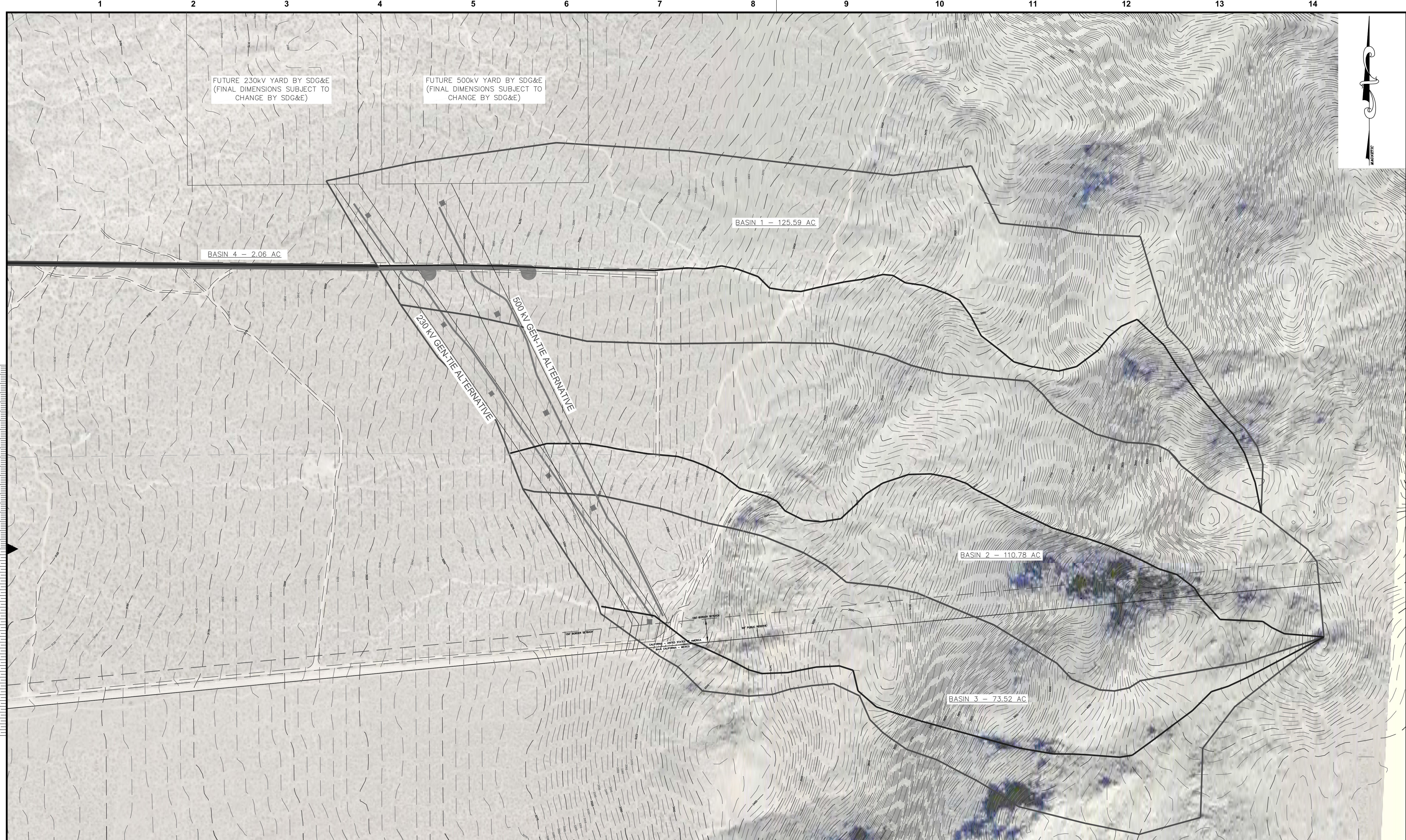
project	52573	contract	
drawing	C07	rev.	0

sheet	7	of	8	sheets
file	ESJ-BASE11.DWG			



Scale For Microminim
 Millimeters
 Inches

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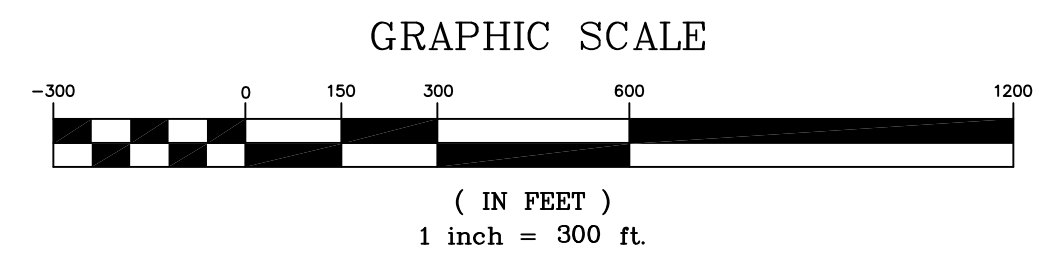


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BASIN ANALYSIS

BASIN #	AREA(Ac)	Post Dev CN	10 YR PRE-DEVELOPED Q (c.f.s)	10 YR POST-DEVELOPED Q (c.f.s)
1.	146.01	64.3	10.04	10.04
2.	159.53	72.5	40.03	40.03
3.	92.27	75.8	34.62	34.62
4.	2.06	67.3	.049	.197

SAN DIEGO COUNTY, CA



OWNER:
ESJ U.S. TRANSMISSION LLC.
101 ASH STREET HQ #14
SAN DIEGO, CA 92101
(619) 696-2121
24-HR CONTACT: TBD

NOTE: THE PROPOSED DEVELOPMENT HAS NO SIGNIFICANT DOWNSTREAM IMPACT. THE SMALL AMOUNT OF IMPERVIOUS SURFACE ADDED IS NOT LARGE ENOUGH TO AFFECT THE POST-DEVELOPED CN, AND THEREFORE DOES NOT INCREASE THE POST-DEVELOPED RUNOFF (Q). FOR FURTHER INFORMATION REFER TO THE FULL HYDROLOGY REPORT.



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

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ESJ U.S.
PROJECT DRAINAGE MAP

project	52573	contract	
drawing	C08	rev.	1
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