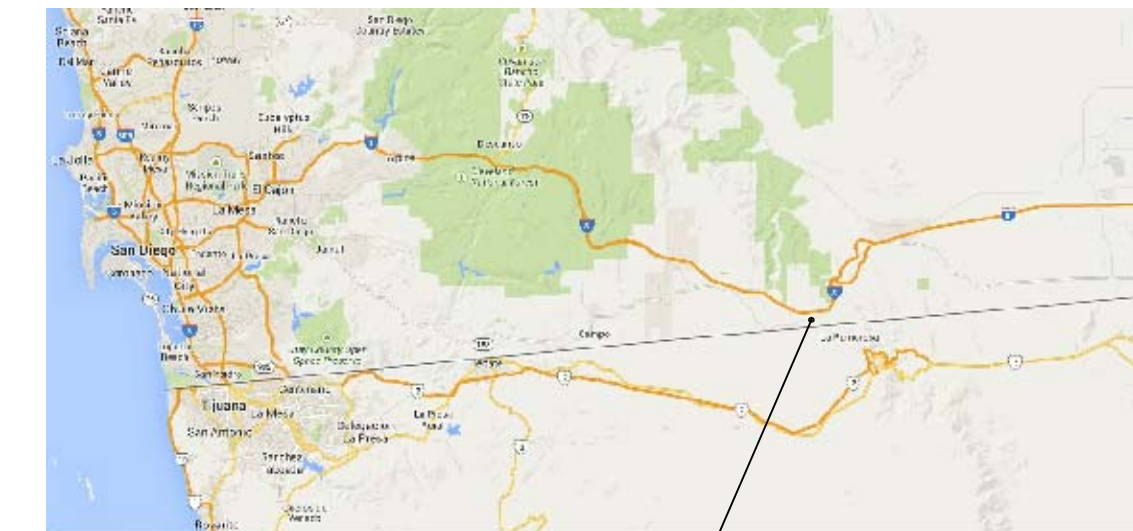
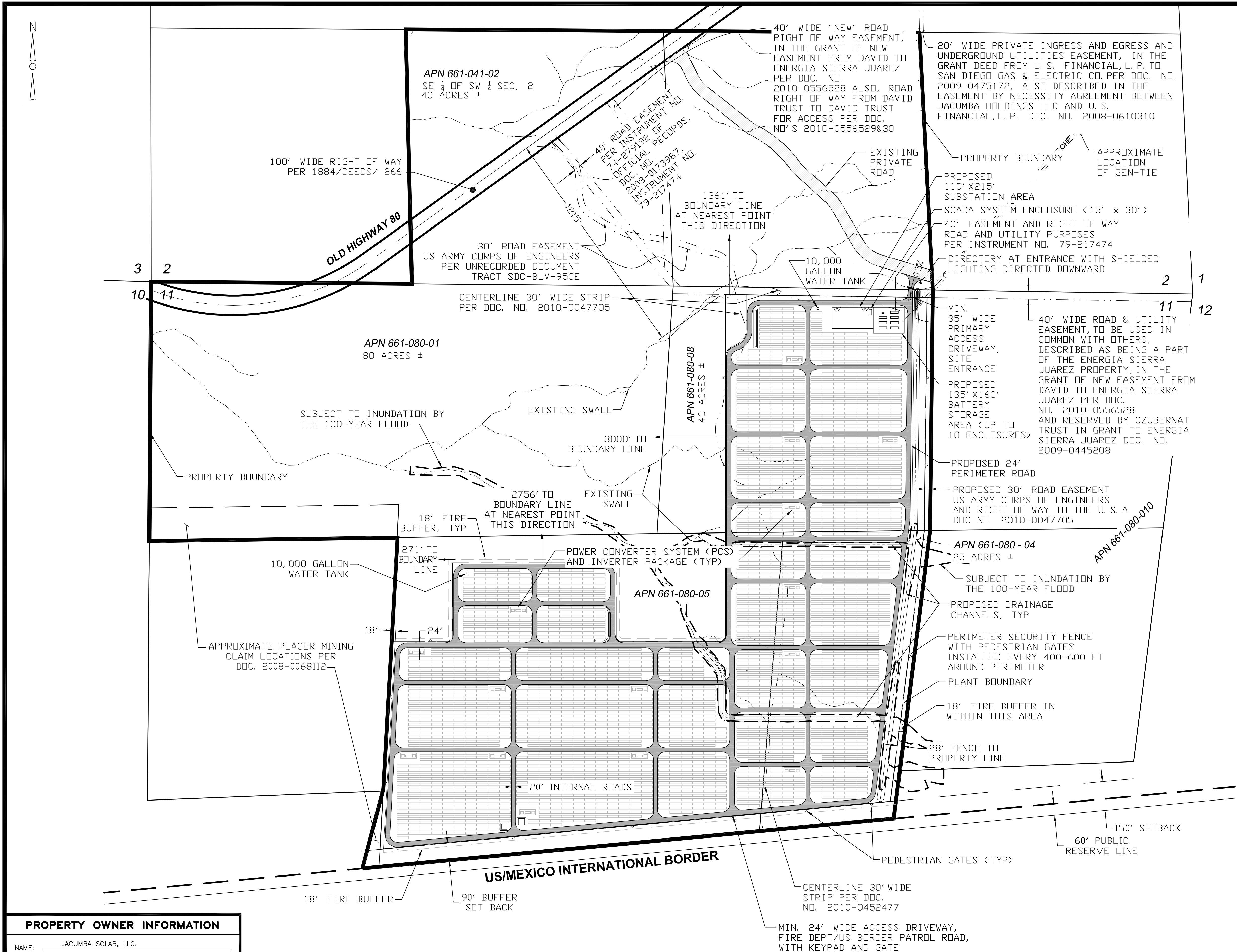
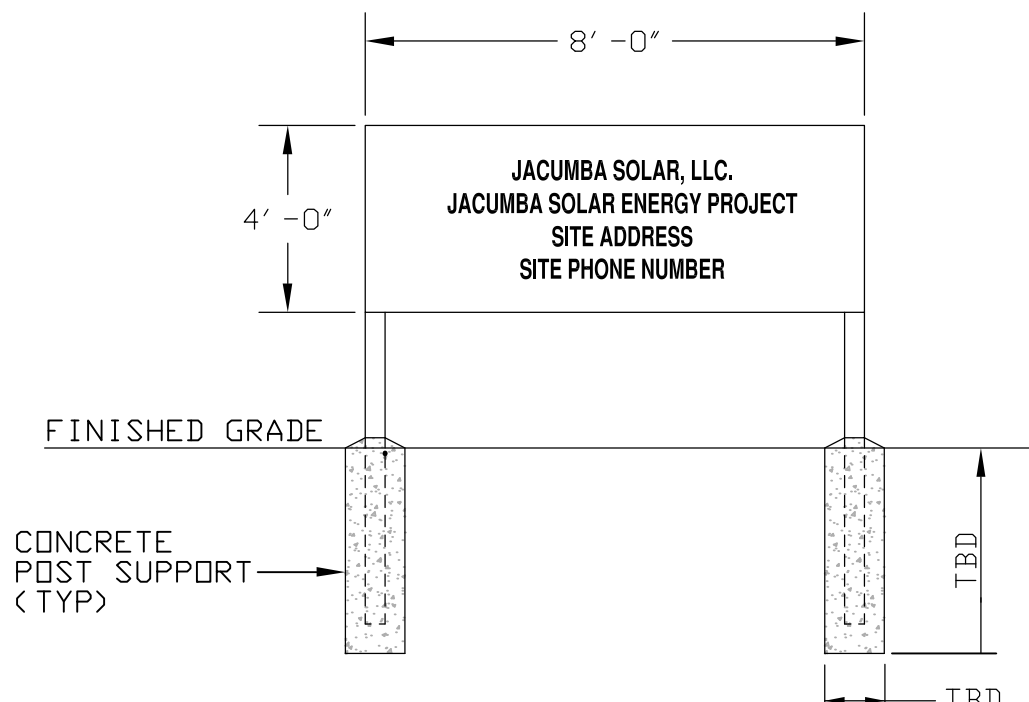




VICINITY MAP
NOT TO SCALE



PLANT ENTRANCE SIGN
NOT TO SCALE

EARTHWORK QUANTITIES:

EXCAVATION:	180,000	CUBIC YARDS
FILL:	180,000	CUBIC YARDS
IMPORT:	0	CUBIC YARDS
EXPORT:	0	CUBIC YARDS

SHEET LEGEND:

	PROPERTY BOUNDARY
	PLANT BOUNDARY/FENCE
	100-YEAR FLOOD INUNDATION LINE
	PCS/INVERTER PACKAGE
	SECTION LINE
	FIXED TILT RACK
	DRAINAGE CHANNEL (TBD PER DRAINAGE STUDY)
	DRAINAGE FLOWLINE (TBD PER DRAINAGE STUDY)
	PEDESTRIAN GATE
	GEN-TIE

CONCEPTUAL
ENGINEERING PLANS

NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

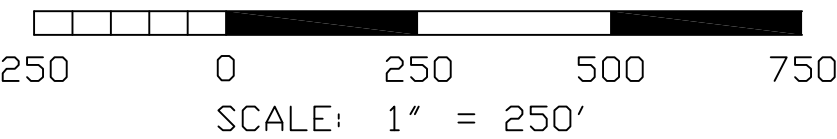
PROPERTY OWNER INFORMATION

NAME:	JACUMBA SOLAR, LLC.
ADDRESS:	700 UNIVERSE BLVD JUNO BEACH, FL 33408
TELEPHONE NUMBER: (24 HOUR CONTACT NUMBER)	661-041-02, 661-041-03, 661-080-01, 661-080-04
SITE A.P.N. NUMBER:	661-080-05, 661-080-08
SITE ADDRESS:	XXX OLD HWY 80 JACUMBA, CA 91934

REFERENCE DRAWINGS:

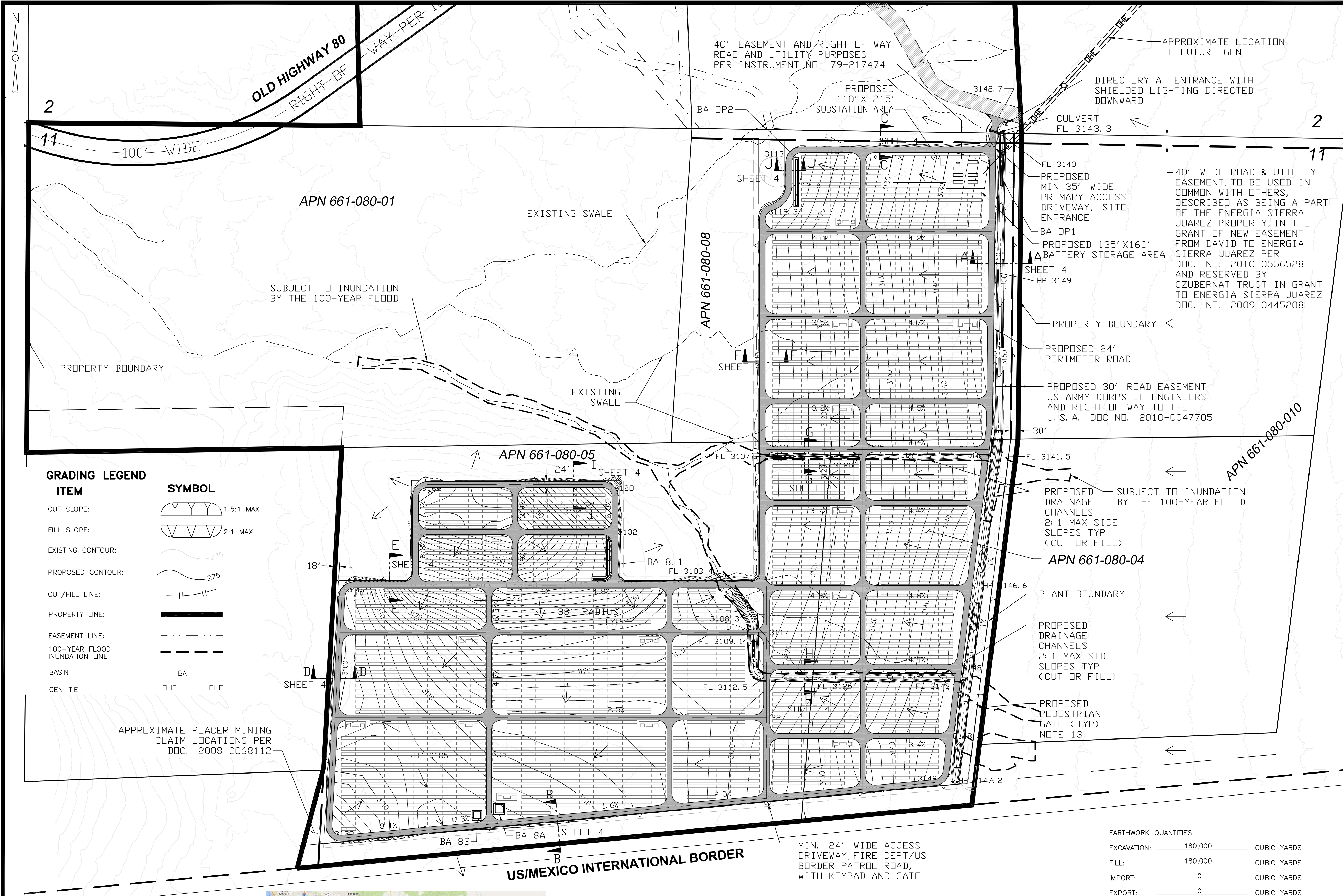
JSEP-2-DW-112-101-000	COVER SHEET
JSEP-2-DW-112-735-001	PRELIMINARY GRADING PLAN
JSEP-2-DW-112-735-002	GRADING SECTIONS AND DETAILS
JSEP-2-DW-112-735-003	FENCE DETAILS
JSEP-2-DW-112-717-001	EROSION CONTROL PLAN
JSEP-2-DW-601-206-010	CONCEPTUAL ONE LINE DIAGRAM

PLOT PLAN



MINOR GRADING PLAN FOR: JACUMBA SOLAR, LLC. JACUMBA SOLAR ENERGY PROJECT		
SHEET: 2	20MW PV PLOT PLAN	OF SHEETS: 7
APPROVED: DIRECTOR OF PLANNING & DEVELOPMENT SERVICES		GRADING RECORD ID: JSEP-2-DW-112-002-001
BY:	DATE:	

ENGINEER WORLEYPARSONS
2330 E. BIDWELL ST., SUITE 150
FOLSOM, CA 95630
(916) 817-3920



ITEM	SYMBOL
CUT SLOPE:	1.5:1 MAX
FILL SLOPE:	2:1 MAX
EXISTING CONTOUR:	275
PROPOSED CONTOUR:	275
CUT/FILL LINE:	275
PROPERTY LINE:	18'
EASEMENT LINE:	18'
100-YEAR FLOOD INUNDATION LINE	18'
BASIN	BA
GEN-TIE	DHE DHE

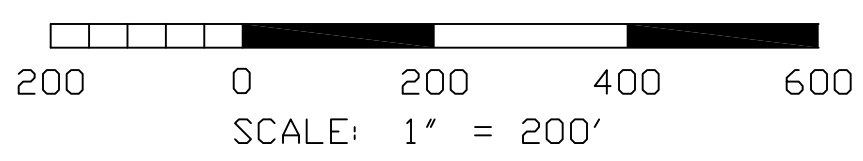
APPROXIMATE PLACER MINING CLAIM LOCATIONS PER DDC. 2008-0068112

PROPERTY OWNER INFORMATION	
NAME:	JACUMBA SOLAR, LLC.
ADDRESS:	700 UNIVERSE BLVD JUNO BEACH, FL 33408
TELEPHONE NUMBER: (24 HOUR CONTACT NUMBER)	661-041-02, 661-041-03, 661-080-01, 661-080-04
SITE A.P.N. NUMBER:	661-080-05, 661-080-08
SITE ADDRESS:	XXX OLD HWY 80 JACUMBA, CA 91934



SITE LOCATION
LATITUDE 32° 37' 16" NORTH
LONGITUDE 116° 7' 52" WEST
VICINITY MAP
NOT TO SCALE

PRELIMINARY GRADING PLAN



CONCEPTUAL
ENGINEERING PLANS

**NOT FOR CONSTRUCTION
FOR PERMITTING ONLY**

EARTHWORK QUANTITIES:	
EXCAVATION:	180,000 CUBIC YARDS
FILL:	180,000 CUBIC YARDS
IMPORT:	0 CUBIC YARDS
EXPORT:	0 CUBIC YARDS

ENGINEER WORLEYPARSONS
2330 E. BIDWELL ST., SUITE 150
FOLSOM, CA 95630
(916) 817-3920

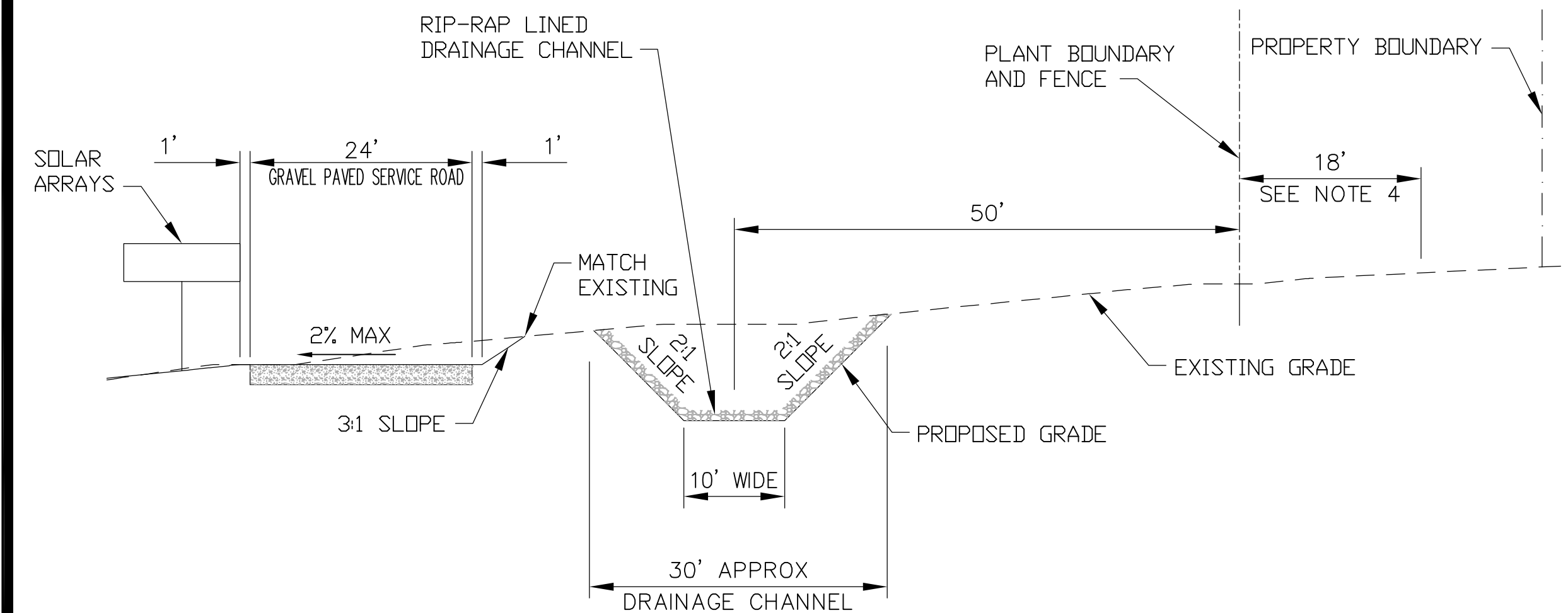
- NOTES:**
- SEE SHEET JSEP-2-DW-112-101-000 FOR GRADING NOTES.
 - SEE SHEET JSEP-2-DW-112-735-002 FOR VEGETATIVE FIRE SUPPRESSION DETAILS.
 - THIS PLAN IS PROVIDED TO ALLOW FOR FULL AND ADEQUATE DISCRETIONARY REVIEW OF PROPOSED DEVELOPMENT PROJECT. THE PROPERTY OWNER ACKNOWLEDGES THAT ACCEPTANCE OR APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL TO PERFORM ANY GRADING SHOWN HEREON, AND AGREES TO OBTAIN A VALID GRADING PERMIT BEFORE COMMENCING SUCH ACTIVITY.
 - THE APPLICANT WILL APPLY WATER THREE TIMES PER DAY OR AS NECESSARY DEPENDING ON WEATHER CONDITIONS TO SUPPRESS FUGITIVE DUST DURING GRUBBING, CLEARING, GRADING, TRENCHING, AND SOIL COMPACTION AND/OR APPLY A NONTOXIC SOIL BINDING AGENT TO HELP WITH SOIL STABILIZATION DURING CONSTRUCTION. THESE MEASURES WILL BE APPLIED TO ALL ACTIVE CONSTRUCTION AREAS, UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AS NECESSARY.
 - SWEEPERS AND WATER TRUCKS WILL BE USED TO CONTROL DUST AND DEBRIS AT PUBLIC STREET ACCESS POINTS.
 - INTERNAL CONSTRUCTION ROADWAYS WILL BE STABILIZED BY PAVING, CHIP SEALING OR NONTOXIC SOIL BINDERS AFTER ROUGH GRADING.
 - EXPOSED STOCKPILES (E.G., DIRT, SAND) WILL BE COVERED AND/OR WATERED OR STABILIZED WITH NONTOXIC SOIL BINDERS, TAPPS, FENCING OR OTHER SUPPRESSION METHODS AS NEEDED TO CONTROL EMISSIONS.
 - TRAFFIC SPEEDS ON UNPAVED ROADS WILL BE LIMITED TO 15 MILES PER HOUR (MPH)
 - ALL HAUL AND DUMP TRUCKS ENTERING OR LEAVING THE SITE WITH SOIL OR FILL MATERIAL WILL MAINTAIN AT LEAST 2 FEET OF FREEBOARD, OR COVER LOADS OF ALL HAUL AND DUMP TRUCKS SECURELY.
 - DISTURBED AREAS WILL BE RESEED WITH EITHER A NATIVE PLANT HYDRSEED MIX AS SOON AS POSSIBLE AFTER DISTURBANCE, OR COVERED WITH A NONTOXIC SOIL BINDING AGENT (SUCH AS EPA'S ENVIROTAC II AND RHINOSNOT DUST CONTROL, EROSION CONTROL AND SOIL STABILIZATION).
 - SEE EROSION CONTROL PLAN FOR LOCATION OF BMP'S.
 - ALL THE SOLAR PANELS AT MAXIMUM TILT LOWEST ELEVATION WILL BE ABOVE THE 100-YEAR BASE FLOOD ELEVATION.

CONCEPT BASE PLAN NOTES

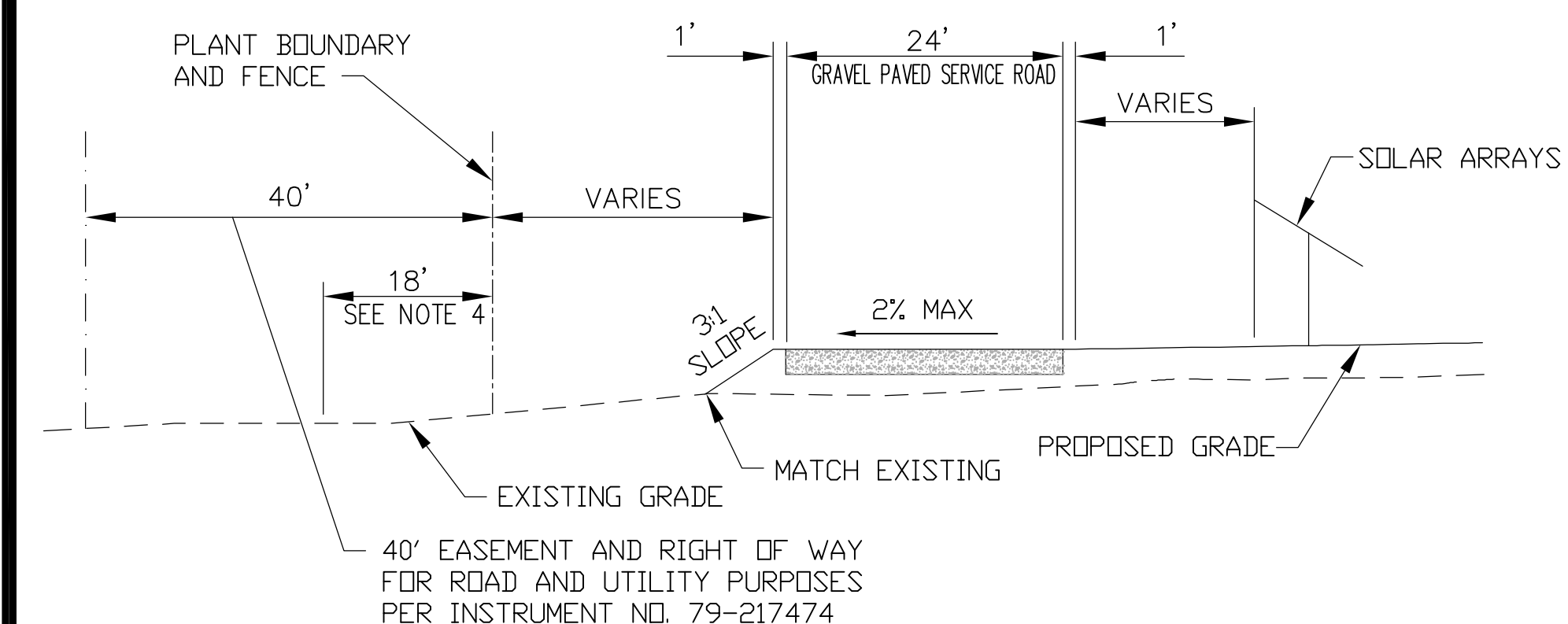
- THIS "CONCEPT BASE PLAN" DRAWING IS A COMPILATION OF RECORD DATA (SEE NOTE 2 BELOW) AND/OR CALCULATIONS MADE FROM RECORD INFORMATION AND/OR CONCEPT PLANNING FOR INFORMATIONAL AND/OR CONCEPT PLANNING PURPOSES ONLY. AN ACTUAL SURVEY WILL RESULT IN DIFFERENCES FROM THE BOUNDARY INFORMATION SHOWN HEREON. THE INFORMATION SHOWN ON THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY AND THE ACCURACY IS UNKNOWN. PRIOR TO CRITICAL DESIGN OR DECISIONS, AN ACTUAL SURVEY SHOULD BE PERFORMED TO BE USED AS THE BASIS FOR SUCH DESIGN OR DECISIONS.
- BLM DISCLAIMER: THE GEOGRAPHIC COORDINATES AND THEIR ASSOCIATED PRODUCTS ARE NOT LEGAL LAND SURVEY RECORDS. THESE COORDINATES CAN NOT BE USED AS A SUBSTITUTE FOR A LEGAL LAND SURVEY. THEY CAN BE USED FOR RECORD KEEPING, MAPPING, GRAPHICS, AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY THE BUREAU OF LAND MANAGEMENT FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY THE BLM.
- CONTOURS SHOWN HEREON HAVE BEEN PROVIDED BY AIRBORNE 1 AND UNDER THE RESPONSIBLE SUPERVISION OF MIKE KENNADA (PLS5642), CALIFORNIA.

- SURVEY NOTES**
- THE HORIZONTAL DATUM FOR THIS SURVEY IS NAD 83 FROM AIRBORNE 1 CORPORATION.
 - THE ORTHOMETRIC HEIGHTS (ELEVATIONS) ARE BASED ON NAVD 88 FROM AIRBORNE 1 CORPORATION.
 - THE CONTOUR INTERVAL IS 2 FOOT.
 - AERIAL MAPPING PRODUCED BY:
AIRBORNE 1 CORPORATION
300 N. SEPULVEDA BLVD., SUITE 1060
EL SEGUNDO, CA 90245
PHONE: (310) 414-7400
 - ORTHOGRAPHY PRODUCED BY:
DIGITAL GLOBE CORPORATE
1601 DRY CREEK DRIVE
SUITE 260
LONGMONT, CO 80503
PHONE: (303) 684-4000
PHOTOGRAPHY DATED: 2008
 - UTILITY LOCATIONS ARE PLOTTED BASED ON DIGITAL GLOBE (ABOVE GROUND SURFACE STRUCTURES). ACTUAL LOCATION MAY DIFFER.
 - EASEMENTS AFFECTING THE PROPERTY SHOWN HEREON AND HAVE BEEN PLOTTED BASED UPON P.T.R. BY CHICAGO TITLE COMPANY.
ORDER NO.: 106744613-X49
DATED: 9/23/2010
OWNER: MCCARY
-RESERVATIONS FOR 1/2 MINERAL RIGHTS ARE BLANKET IN NATURE PER 6860/O.R./8.
-RESERVATIONS FOR RIGHTS ARE BLANKET IN NATURE PER 43/PATENTS/369.
 - EASEMENTS AFFECTING THE PROPERTY SHOWN HEREON AND HAVE BEEN PLOTTED BASED UPON P.T.R. BY CHICAGO TITLE COMPANY.
ORDER NO.: 106744614-X49
DATED: 9/23/10
OWNER: PRIDY
-RESERVATIONS FOR 1/2 MINERAL RIGHTS ARE BLANKET IN NATURE PER 6860/O.R./8.
-RESERVATIONS FOR RIGHTS ARE BLANKET IN NATURE PER 43/PATENTS/369.
 - EASEMENTS AFFECTING THE PROPERTY SHOWN HEREON AND HAVE BEEN PLOTTED BASED UPON P.T.R. BY CHICAGO TITLE COMPANY.
ORDER NO.: 106744615-X49
DATED: 9/23/10
OWNER: JACUMBA HOLDINGS
-RESERVATIONS FOR DITCHES AND CANALS ARE BLANKET IN NATURE PER INST. NO. 541/O.R./350
-RESERVATIONS FOR MINERAL RIGHTS ARE BLANKET IN NATURE PER 541/O.R./350

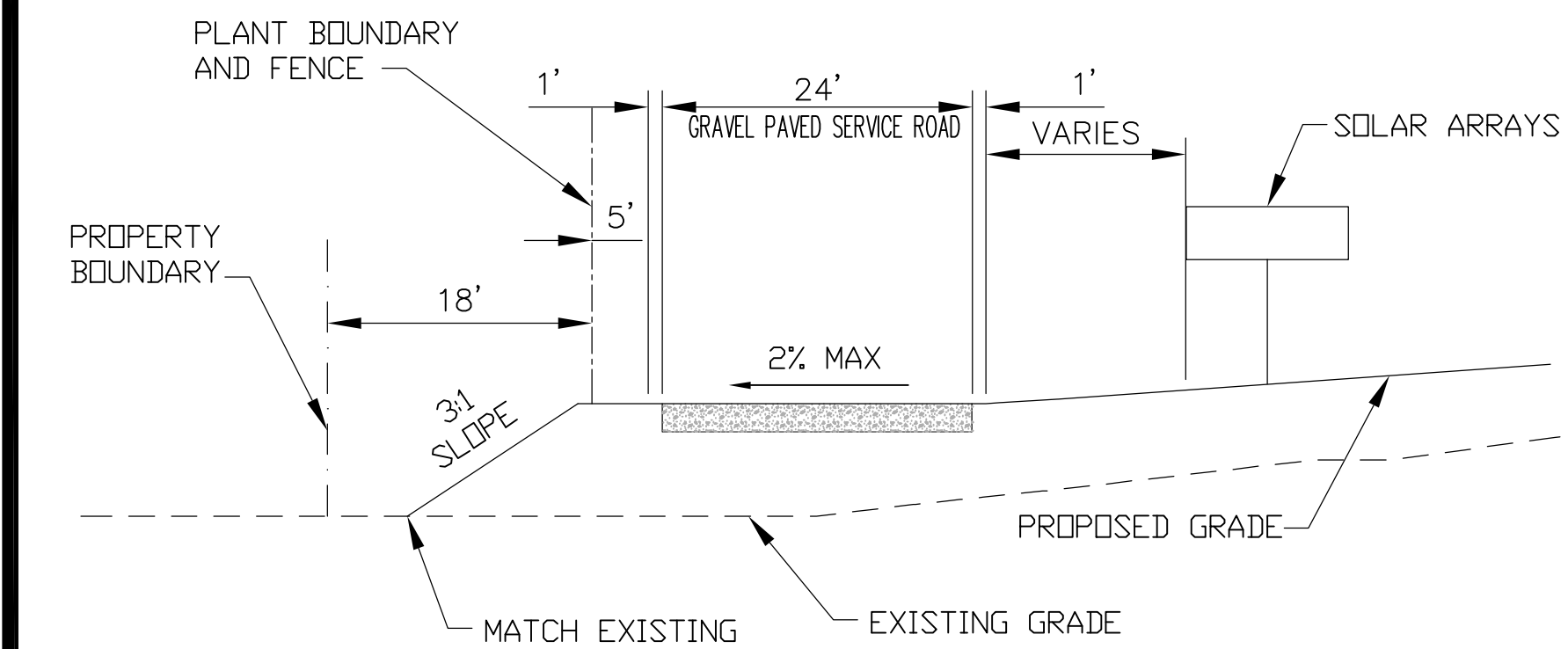
MINOR GRADING PLAN FOR:	
JACUMBA SOLAR, LLC. JACUMBA SOLAR ENERGY PROJECT 20MW PV	
SHEET: 3	OF SHEETS: 7
PRELIM GRADING PLAN	
GRADING RECORD ID: JSEP-2-DW-112-735-001	
APPROVED DIRECTOR OF PLANNING & DEVELOPMENT SERVICES	DATE:



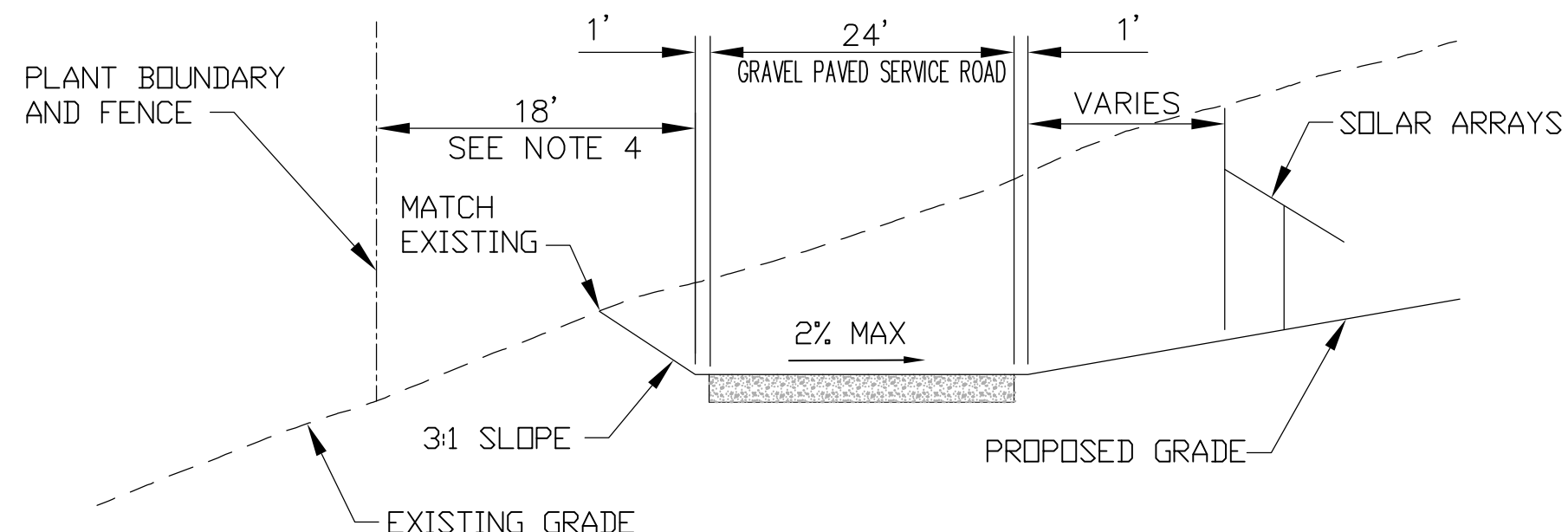
SECTION A-A
NOT TO SCALE



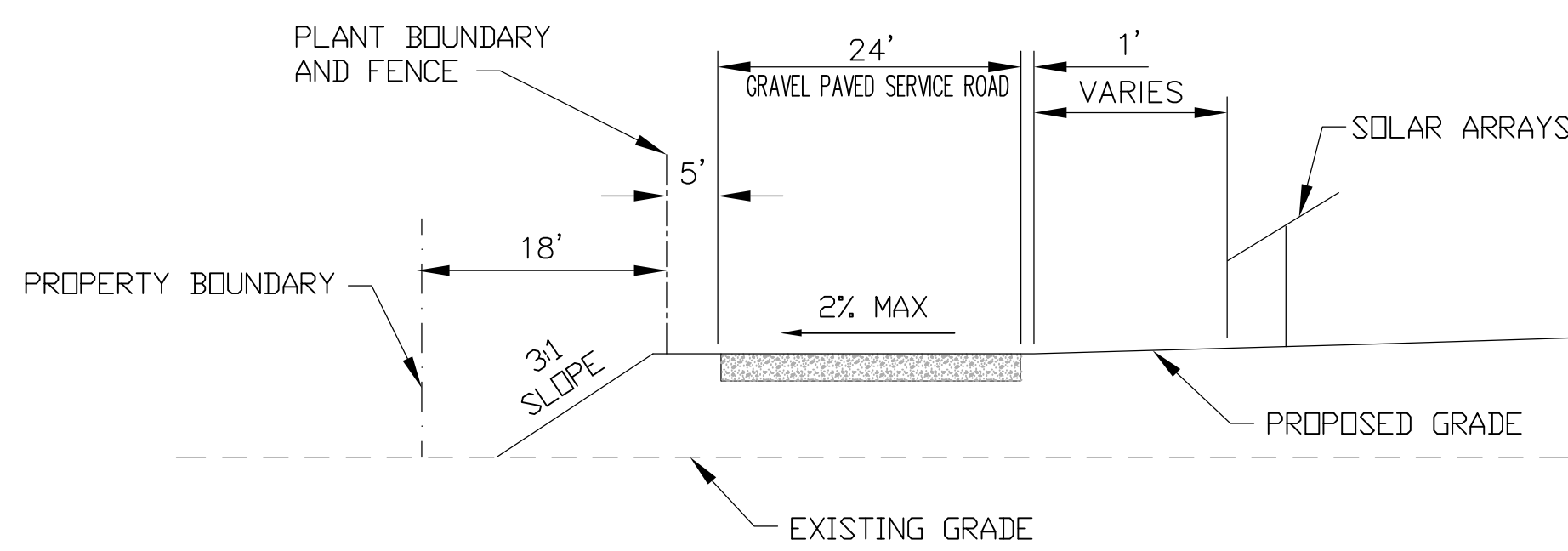
SECTION C-C
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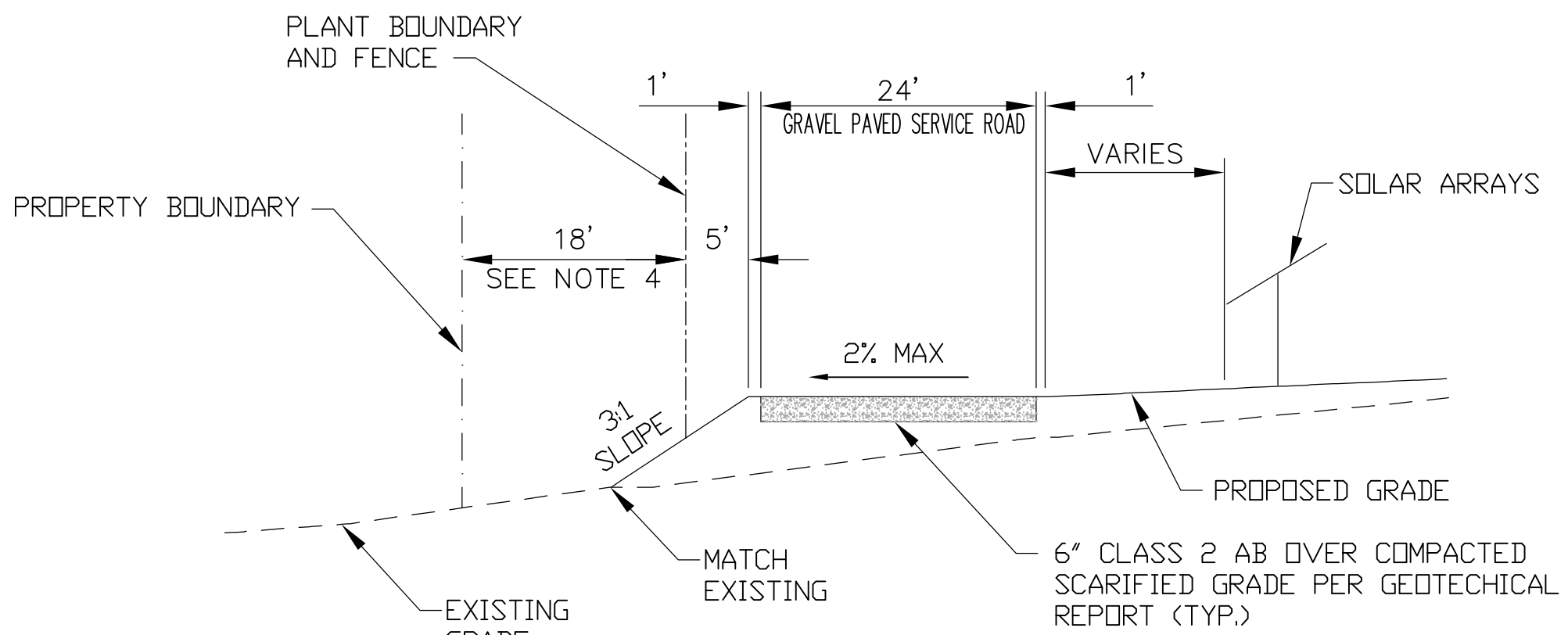
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NOT TO SCALE



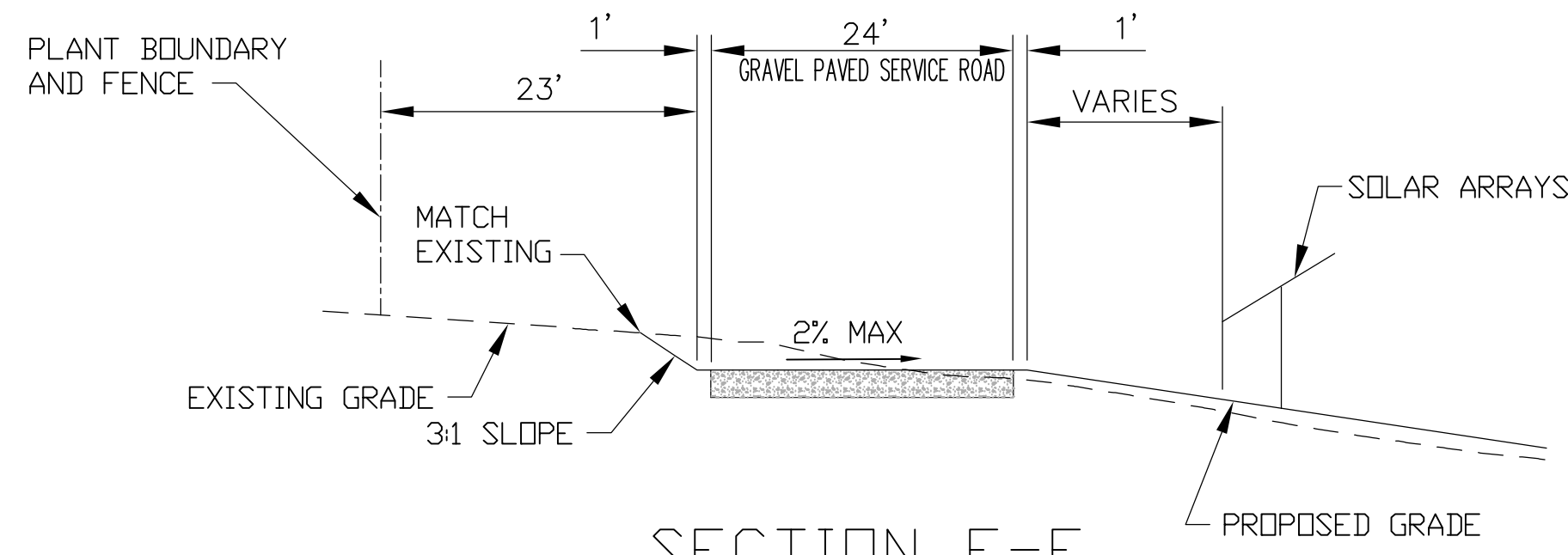
SECTION I-I
NOT TO SCALE



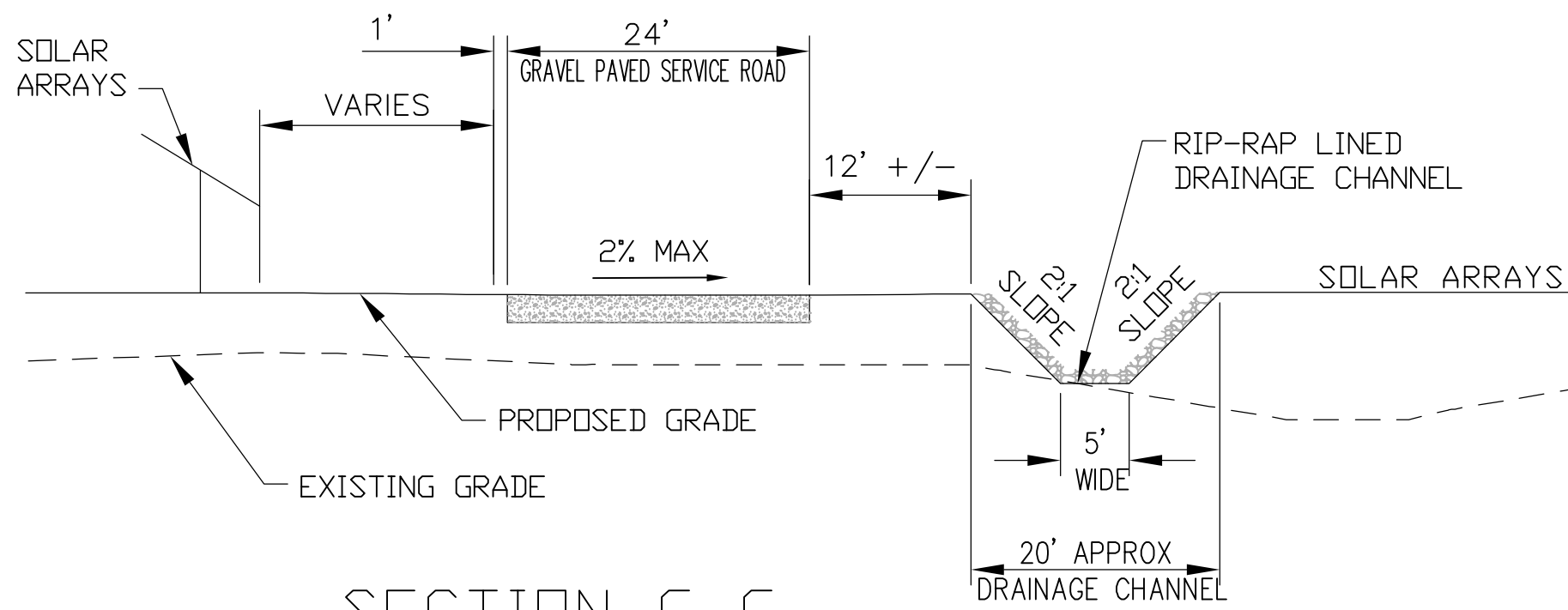
SECTION B-B
NOT TO SCALE



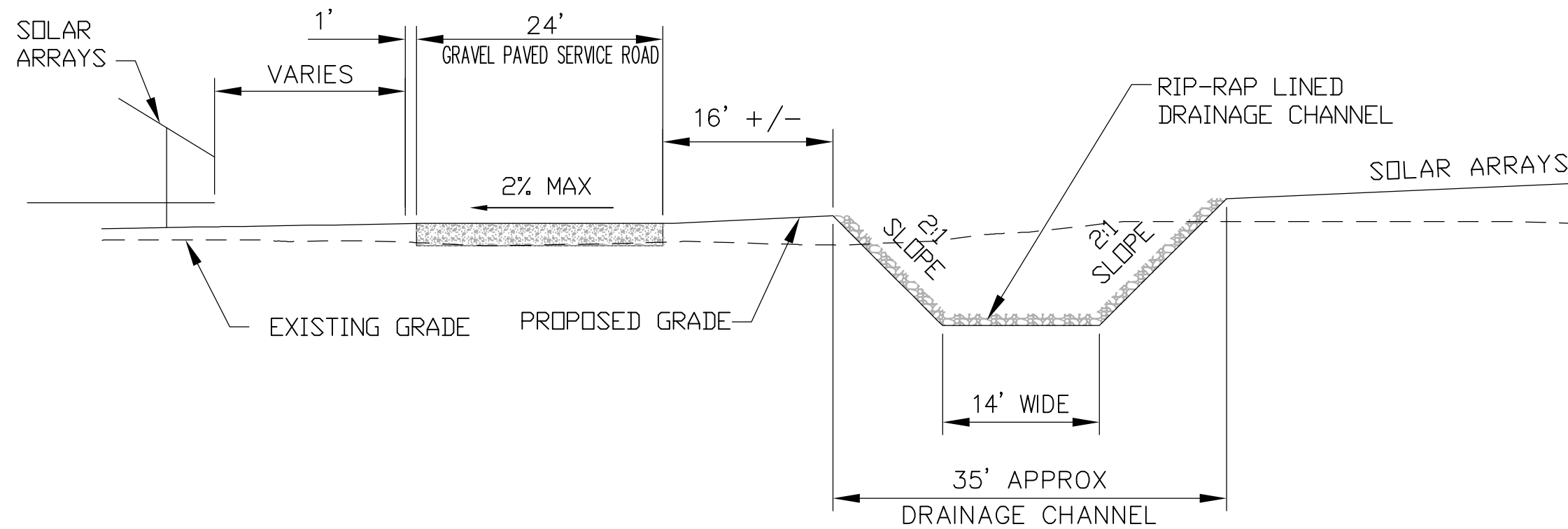
SECTION D-D
NOT TO SCALE



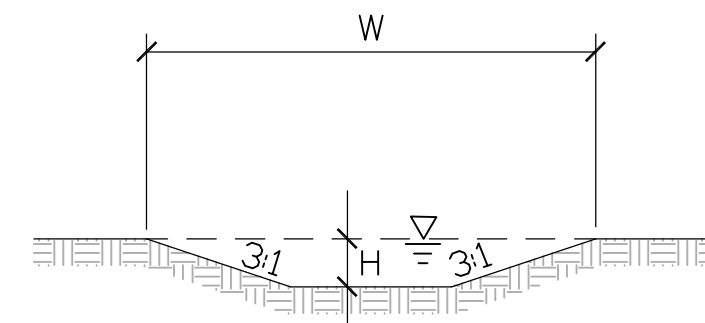
SECTION E-E
NOT TO SCALE



SECTION G-G
NOT TO SCALE



SECTION H-H
NOT TO SCALE



TYP RETENTION BASIN
SECTION J-J
NOT TO SCALE

- NOTES:
1. THE 50' MINIMUM BUFFER REQUIREMENT HAS BEEN MET PER SECTION A-A.
 2. THE 50' MINIMUM BUFFER REQUIREMENT HAS BEEN MET PER SECTION B-B.
 3. THE 50' MINIMUM BUFFER REQUIREMENT HAS BEEN MET PER SECTION C-C.
 4. 18' WIDE CLEARED AREA WITH GRAVEL TOP DRIVABLE BY EMERGENCY VEHICLES.
 5. 12' OF LOW FUEL PLANTINGS (6" HEIGHT) OR EXTENDED CLEARED AND ROCKED AREA.
 6. SEE SHEET JSEP-1-DW-112-101-001 FOR GRADING NOTES AND LEGEND.

CONCEPTUAL
ENGINEERING PLANS

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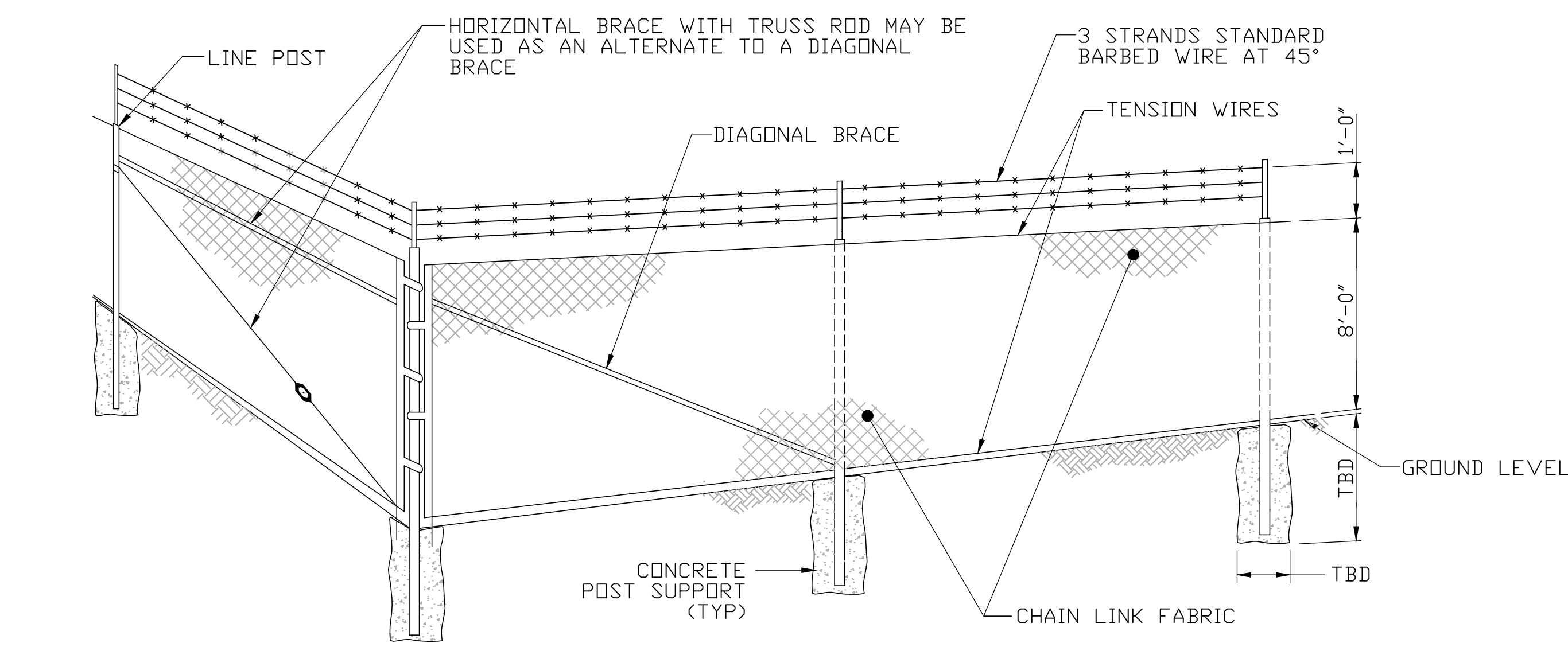
PROPERTY OWNER INFORMATION	
NAME:	JACUMBA SOLAR, LLC.
ADDRESS:	700 UNIVERSE BLVD JUNO BEACH, FL 33408
TELEPHONE NUMBER:	(24 HOUR CONTACT NUMBER) 661-041-02, 661-041-03, 661-080-01, 661-080-04
SITE A.P.N. NUMBER:	661-080-05, 661-080-08
SITE ADDRESS:	XXX OLD HWY 80 JACUMBA, CA 91934

REFERENCE DRAWINGS:	
JSEP-2-DW-112-101-000	COVER SHEET
JSEP-2-DW-112-002-001	PLOT PLAN
JSEP-2-DW-112-735-001	PRELIMINARY GRADING PLAN
JSEP-2-DW-112-735-003	FENCE DETAILS
JSEP-2-DW-112-717-001	EROSION CONTROL PLAN
JSEP-2-DW-601-206-010	CONCEPTUAL ONE LINE DIAGRAM

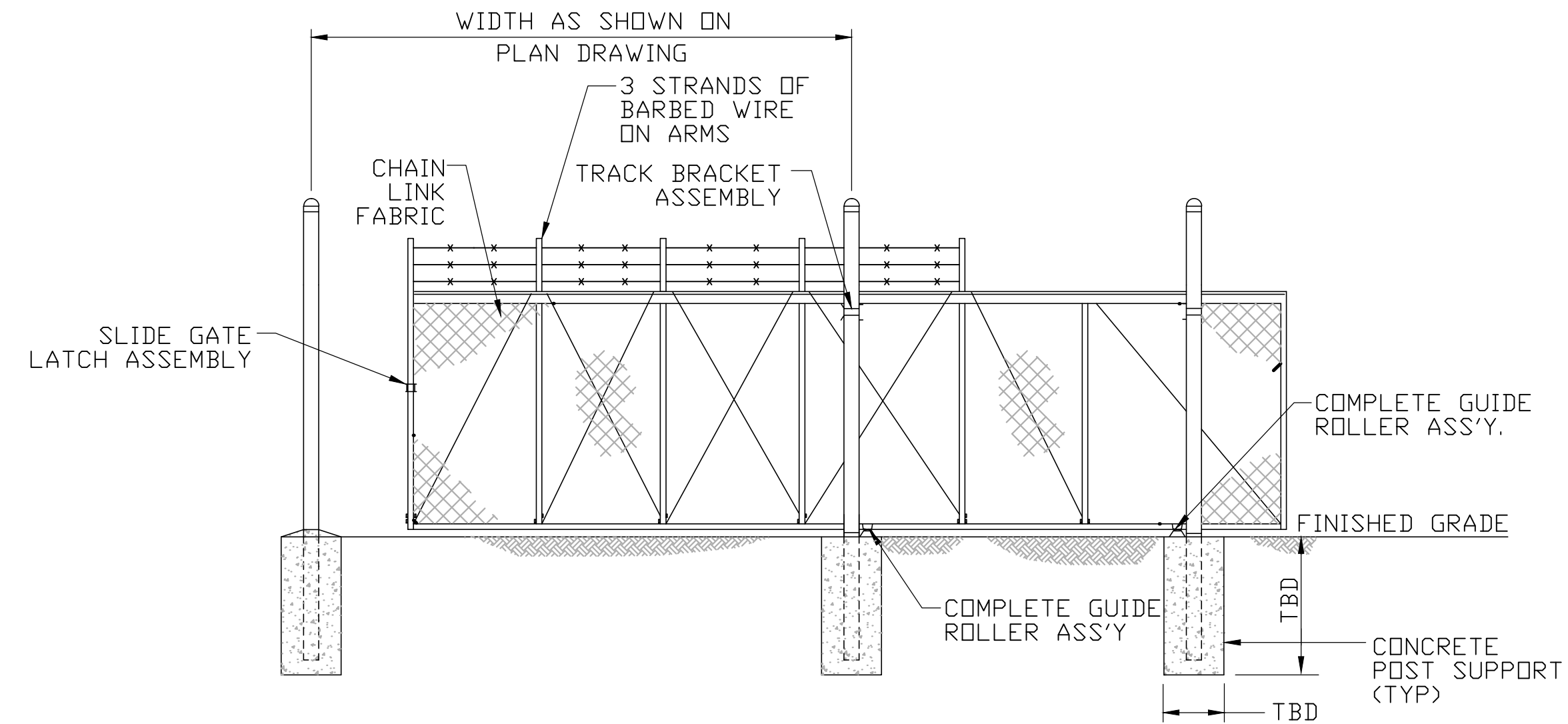
ENGINEER WORLEYPARSONS
2330 E. BIDWELL ST., SUITE 150
FOLSOM, CA 95630
(916) 817-3920

MINOR GRADING PLAN FOR:			
JACUMBA SOLAR, LLC. JACUMBA SOLAR ENERGY PROJECT 20MW PV			
SHEET:	4	OF SHEETS:	7
GRADING SECTIONS		JSEP-2-DW-112-735-002	
APPROVED:	DIRECTOR OF PLANNING & DEVELOPMENT SERVICES	GRADING RECORD ID:	
BY:		DATE:	

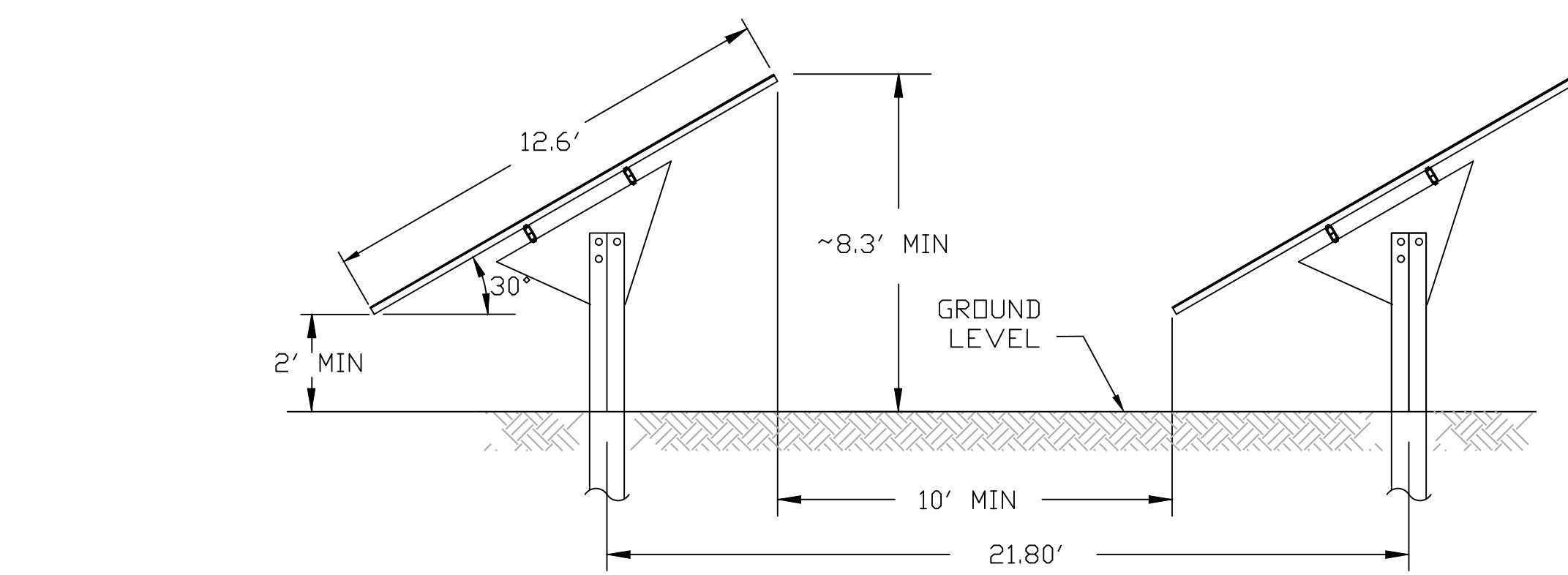
- NOTES:
- FENCING SETBACKS WILL BE DETERMINED DURING DETAILED DESIGN SO THAT ANY PONDING WILL BE WITHIN PROJECT BOUNDARY.
 - THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR DETAILED DESIGN.



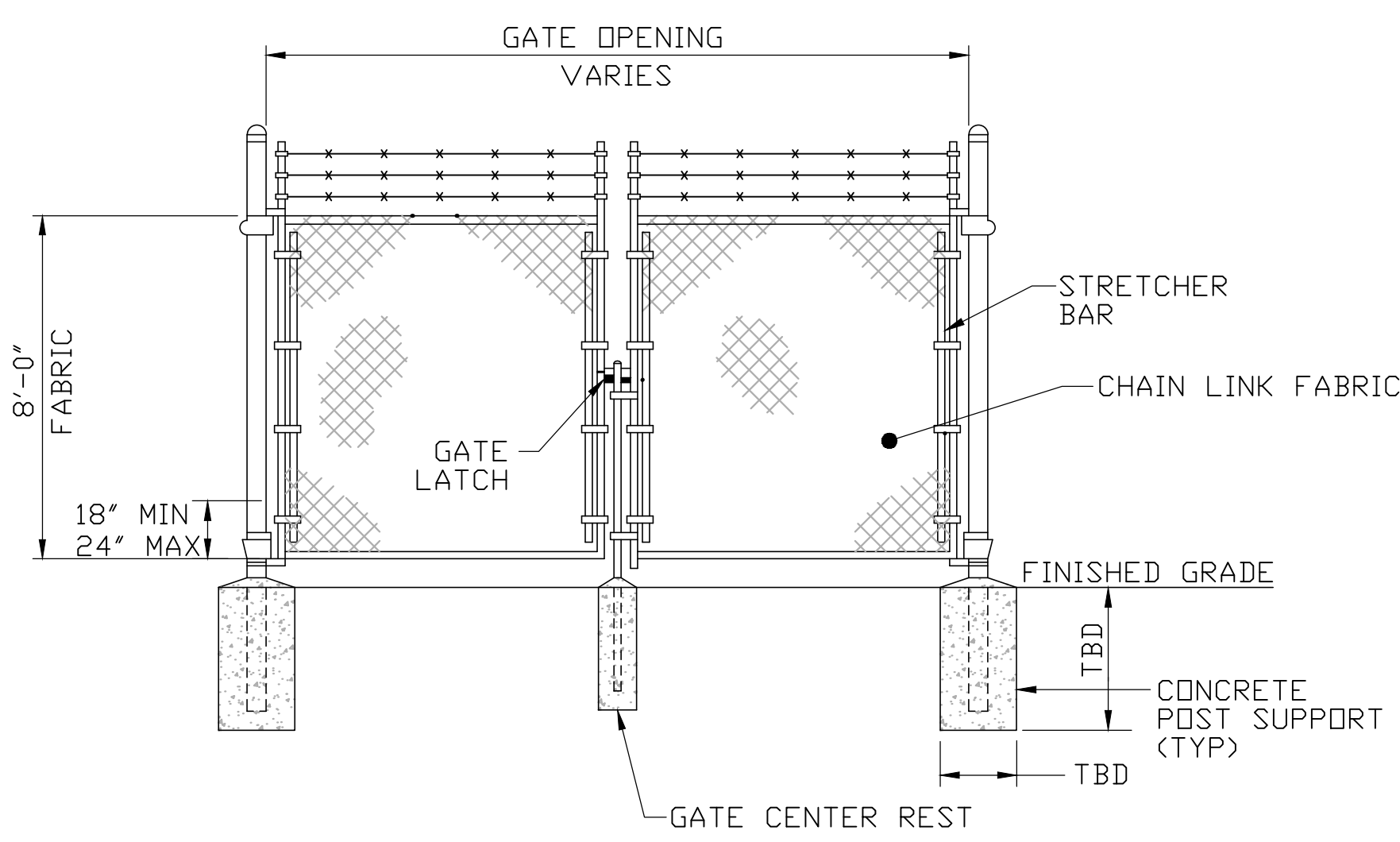
TYPICAL FENCE ELEVATION
NOT TO SCALE



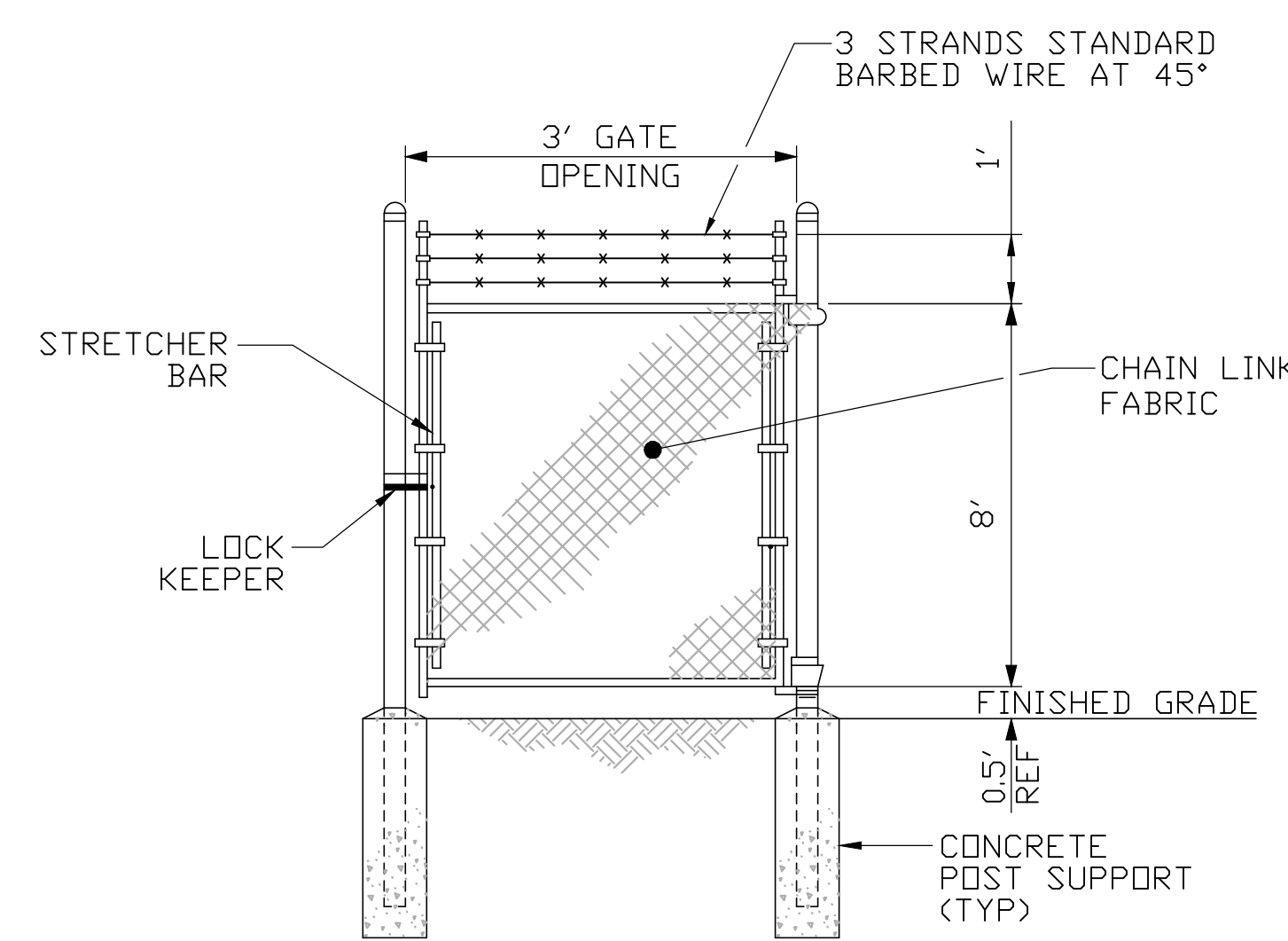
TYPICAL CANTILEVER
SLIDING GATE
NOT TO SCALE



FIXED TILT RACK
NOT TO SCALE



TYPICAL DOUBLE SWING GATE
NOT TO SCALE



TYPICAL SINGLE SWING GATE
NOT TO SCALE

CONCEPTUAL
ENGINEERING PLANS

NOT FOR CONSTRUCTION
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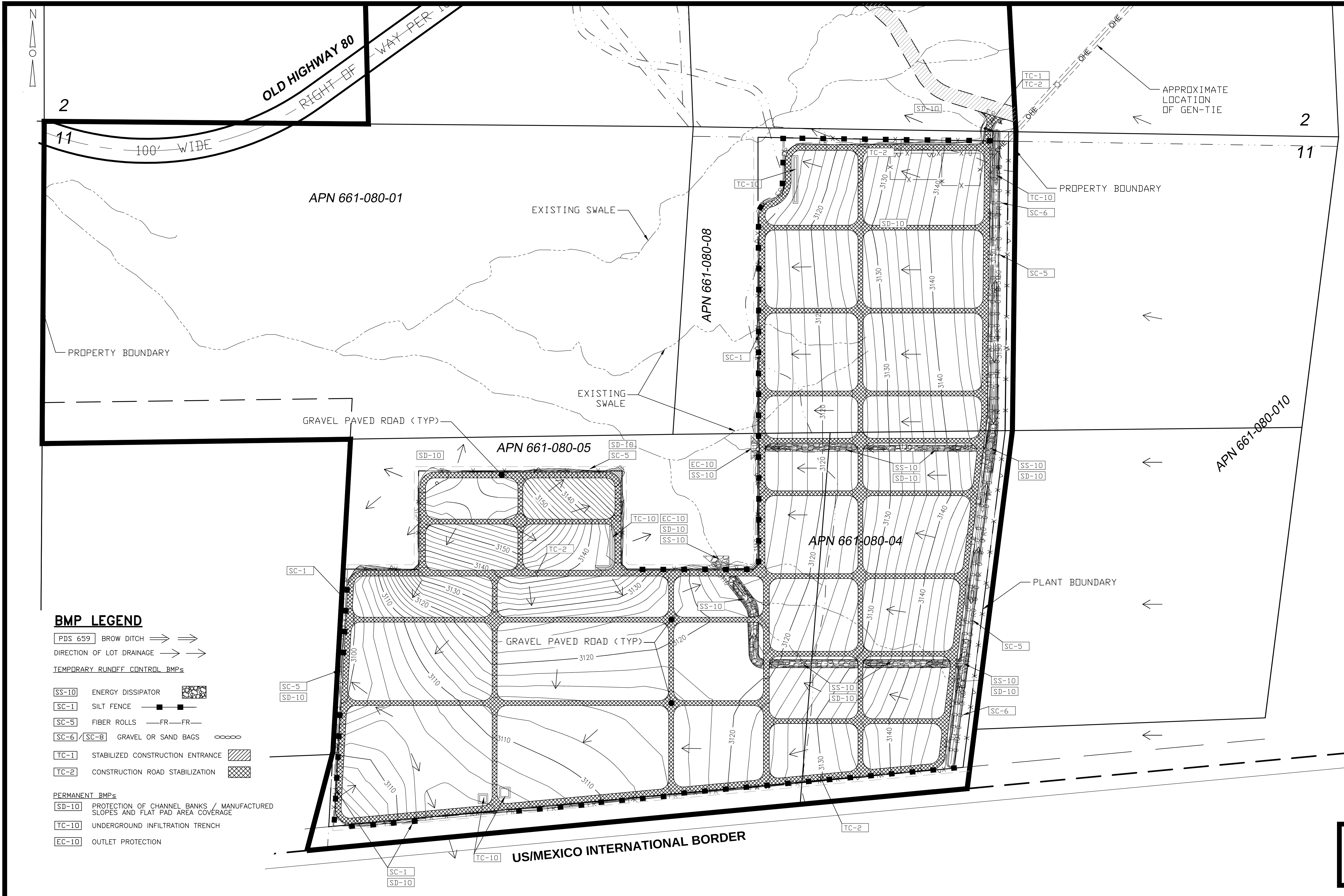
PROPERTY OWNER INFORMATION	
NAME:	JACUMBA SOLAR, LLC.
ADDRESS:	700 UNIVERSE BLVD JUNO BEACH, FL 33408
TELEPHONE NUMBER: (24 HOUR CONTACT NUMBER)	661-041-02, 661-041-03, 661-080-01, 661-080-04
SITE A.P.N. NUMBER:	661-080-05, 661-080-08
SITE ADDRESS:	XXX OLD HWY 80 JACUMBA, CA 91934

REFERENCE DRAWINGS:	
JSEP-2-DW-112-101-000	COVER SHEET
JSEP-2-DW-112-002-001	PLOT PLAN
JSEP-2-DW-112-735-001	PRELIMINARY GRADING PLAN
JSEP-2-DW-112-735-002	GRADING SECTIONS
JSEP-2-DW-112-717-001	EROSION CONTROL PLAN
JSEP-2-DW-601-206-010	CONCEPTUAL ONE LINE DIAGRAM

SHEET LEGEND:
TBD = TO BE DETERMINED
(TYP) = TYPICAL

ENGINEER WORLEYPARSONS
2330 E. BIDWELL ST., SUITE 150
FOLSOM, CA 95630
(916) 817-3920

MINOR GRADING PLAN FOR: JACUMBA SOLAR, LLC. JACUMBA SOLAR ENERGY PROJECT 20MW PV FENCE DETAILS			
SHEET: 5	OF SHEETS: 7	GRADING RECORD ID: JSEP-2-DW-112-735-003	
APPROVED DIRECTOR OF PLANNING & DEVELOPMENT SERVICES		BY: _____ DATE: _____	



- NOTES:
1. DURING THE RAINY SEASON FROM OCTOBER 1ST TO APRIL 30TH THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED WITHIN 48 HOURS OF A PREDICTED RAIN.
 2. 125% OF ALL NEEDED BMP MATERIALS SHALL BE STORED ONSITE YEAR-ROUND TO ALLOW FULL DEPLOYMENT AND INSTALLATION WITHIN 48 HOURS OF A PREDICTED RAIN.
 3. THE PROPERTY OWNER SHALL COMPLY WITH ALL APPLICABLE STORMWATER REGULATIONS AT ALL TIMES. THE BMPs THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO PREVENT ONSITE EROSION AND TO PREVENT DISCHARGES OF POLLUTANTS FROM LEAVING THE SITE. MAINTENANCE OF BMPs IS THE RESPONSIBILITY OF THE PROPERTY OWNER AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMPs MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED BMPs FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE AS SOON AS IT IS SAFE TO DO SO.
 4. PERIMETER SEDIMENT CONTROL BMPs SHALL BE INSTALLED IMMEDIATELY AFTER THE AREA TO BE GRADED IS BRUSHED OR CLEARED, BUT PRIOR TO THE START OF GRADING OPERATIONS.
 5. EROSION CONTROL BMPs USED FOR SLOPE STABILIZATION SHALL BE INSTALLED AS SOON AS THE FINISHED SLOPES ARE COMPLETE.
 6. A PERIMETER BMP INSPECTION IS REQUIRED ON THE FIRST DAY OF GRADING.
 7. ALL ROADS ARE GRAVEL PAVED UNLESS OTHERWISE NOTED.
 8. ALL CONCRETE PADS TO SUPPORT THE PCS/INVERTER PACKAGE ARE DISPERSED AND DISCONNECTED ACROSS THE SITE.

BMP LEGEND

PDS 659 BROW DITCH
DIRECTION OF LOT DRAINAGE

TEMPORARY RUNOFF CONTROL BMPs

- SS-10 ENERGY DISSIPATOR
- SC-1 SILT FENCE
- SC-5 FIBER ROLLS
- SC-6 / SC-8 GRAVEL OR SAND BAGS
- TC-1 STABILIZED CONSTRUCTION ENTRANCE
- TC-2 CONSTRUCTION ROAD STABILIZATION

PERMANENT BMPs

- SD-10 PROTECTION OF CHANNEL BANKS / MANUFACTURED SLOPES AND FLAT PAD AREA COVERAGE
- TC-10 UNDERGROUND INFILTRATION TRENCH
- EC-10 OUTLET PROTECTION

SHEET LEGEND:

- PROPERTY BOUNDARY
- PLANT BOUNDARY/FENCE
- SECTION LINE
- SHEET FLOW
- DHE DHE GEN-TIE

CONCEPTUAL
ENGINEERING PLANS

NOT FOR CONSTRUCTION
FOR PERMITTING ONLY

PROPERTY OWNER INFORMATION

NAME: JACUMBA SOLAR, LLC.
ADDRESS: 700 UNIVERSE BLVD
JUNO BEACH, FL 33408
TELEPHONE NUMBER:
(24 HOUR CONTACT NUMBER)
661-041-02, 661-041-03, 661-080-01, 661-080-04
SITE A.P.N. NUMBER: 661-080-05, 661-080-08
SITE ADDRESS: XXX OLD HWY 80
JACUMBA, CA 91934

REFERENCE DRAWINGS:

JSEP-2-DW-112-101-000 COVER SHEET
JSEP-2-DW-112-002-001 PLOT PLAN
JSEP-2-DW-112-735-001 PRELIMINARY GRADING PLAN
JSEP-2-DW-112-735-002 GRADING SECTIONS AND DETAILS
JSEP-2-DW-112-735-003 FENCE DETAILS
JSEP-2-DW-601-206-010 CONCEPTUAL ONE LINE DIAGRAM

EROSION CONTROL PLAN

200 0 200 400 600
SCALE: 1" = 200'

MINOR GRADING PLAN FOR:

JACUMBA SOLAR, LLC.
JACUMBA SOLAR ENERGY PROJECT
20MW PV

SHEET: 6 OF 7
EROSION CONTROL PLAN

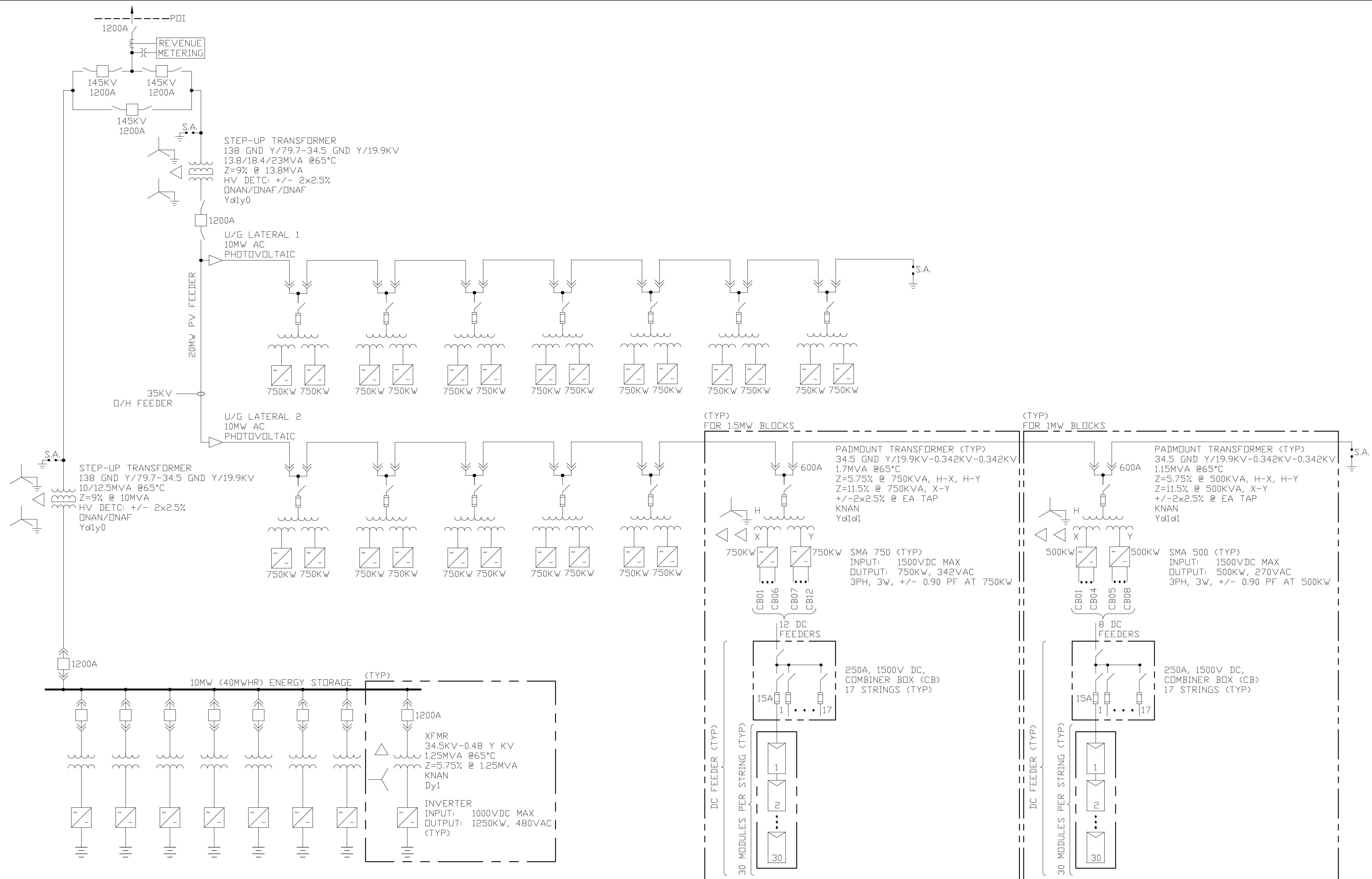
APPROVED
DIRECTOR OF PLANNING & DEVELOPMENT SERVICES

BY: DATE:

GRADING RECORD ID:

JSEP-2-DW-112-717-001

ENGINEER WORLEYPARSONS
2330 E. BIDWELL ST., SUITE 150
FOLSOM, CA 95630
(916) 817-3920



PROPERTY OWNER INFORMATION	
NAME:	JACUMBA SOLAR, LLC.
ADDRESS:	700 UNIVERSE BLVD JUNO BEACH, FL 33408
TELEPHONE NUMBER:	(24 HOUR CONTACT NUMBER) 661-041-02, 661-041-03, 661-080-01, 661-080-04
SITE A.P.N. NUMBER:	661-080-05, 661-080-08
SITE ADDRESS:	XXX OLD HWY 80 JACUMBA, CA 91934

REFERENCE DRAWINGS:	
JSEP-2-DW-112-101-000	COVER SHEET
JSEP-2-DW-112-102-001	PLOT PLAN
JSEP-2-DW-112-103-001	PRELIMINARY GRADING PLAN
JSEP-2-DW-112-104-002	GRADING SECTIONS
JSEP-2-DW-112-105-003	FENCE DETAILS
JSEP-2-DW-112-106-001	EROSION CONTROL PLAN

CONCEPTUAL
ENGINEERING PLANS

**NOT FOR CONSTRUCTION
FOR PERMITTING ONLY**

MINOR GRADING PLAN FOR:	
JACUMBA SOLAR, LLC. JACUMBA SOLAR ENERGY PROJECT BATTERY STORAGE OPTION	
SHEET: 7	OF 7
CONCEPTUAL ONE LINE DIAGRAM	
APPROVED DIRECTOR OF PLANNING & DEVELOPMENT SERVICES	GRADING RECORD ID: JSEP-2-DW-601-206-010
BY: _____	DATE: _____

ENGINEER WORLEYPARSONS
2330 E. BIDWELL ST., SUITE 150
FOLSOM, CA 95630
(916) 817-3920

APPENDIX C

San Diego County Hydrology Manual Parameters

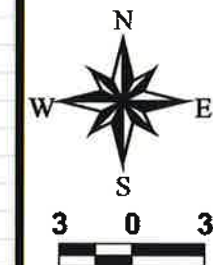
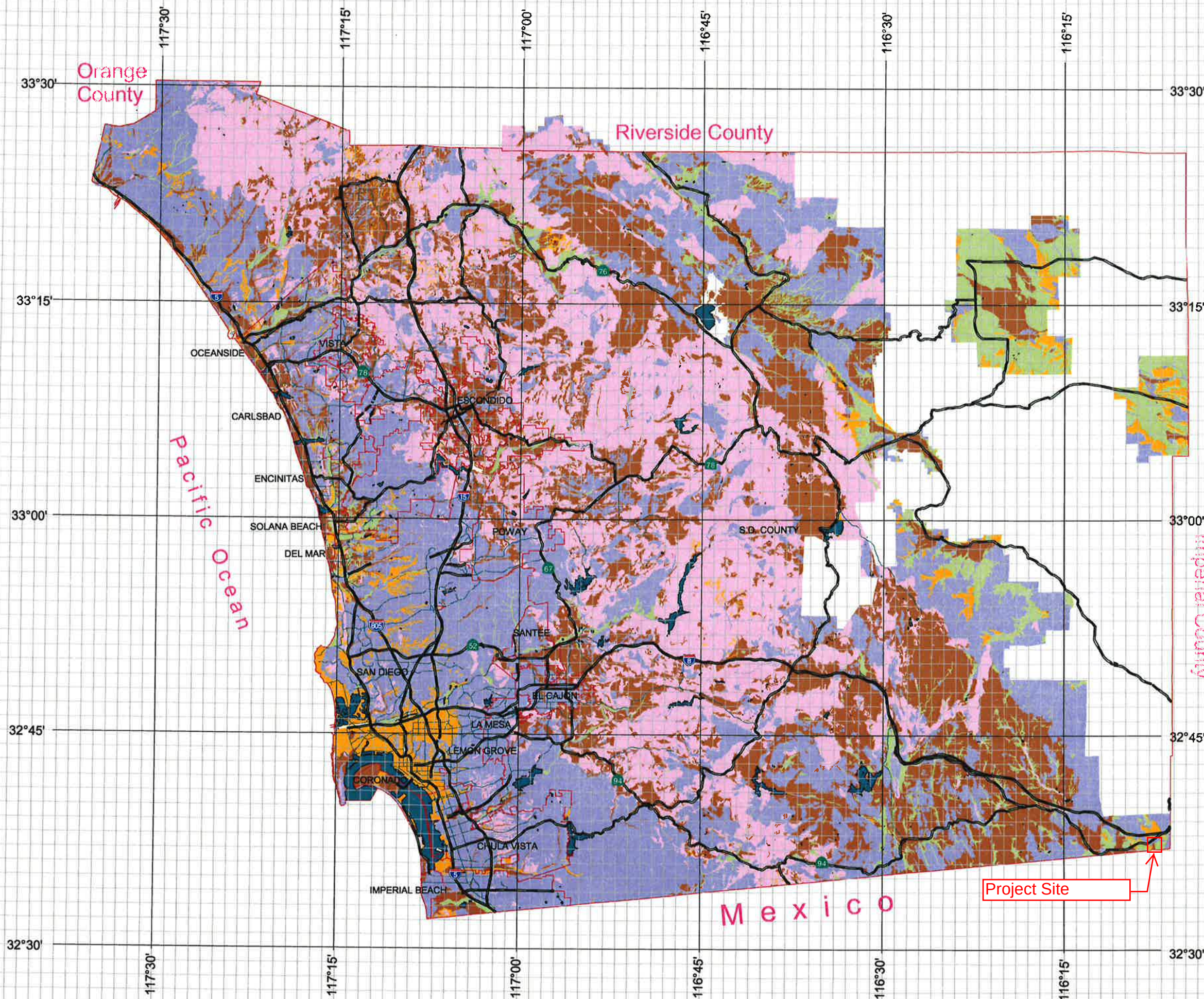
County of San Diego Hydrology Manual



Soil Hydrologic Groups

Legend

Soil Groups	
	Group A
	Group B
	Group C
	Group D
	Undetermined
	Data Unavailable



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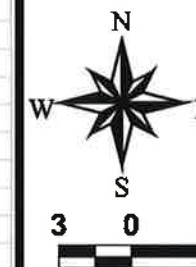
County of San Diego Hydrology Manual



Rainfall Isopluvials

100 Year Rainfall Event - 6 Hours

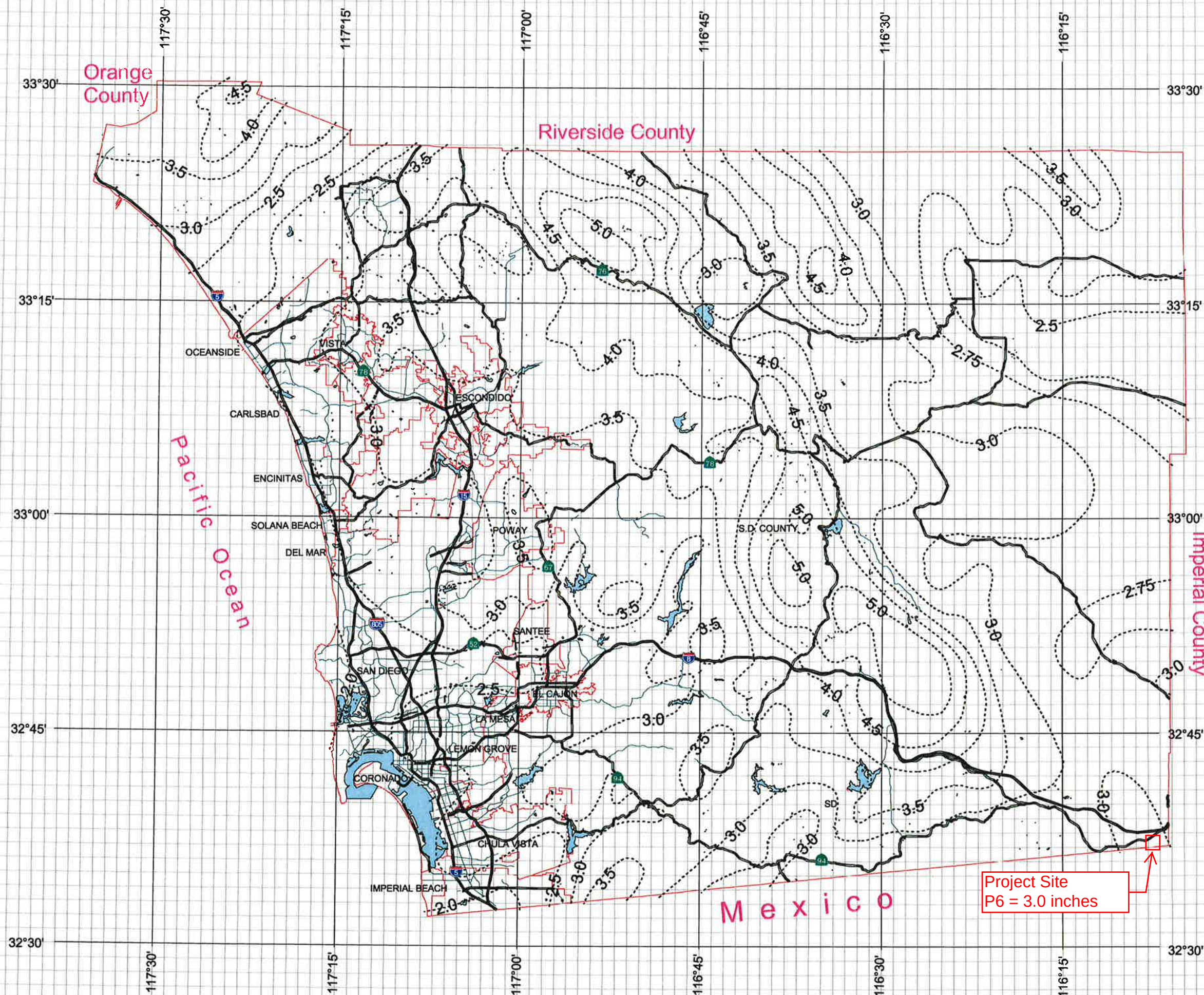
----- Isopluvial (inches)



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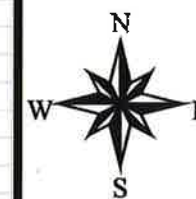
County of San Diego Hydrology Manual



Rainfall Isopluvials

100 Year Rainfall Event - 24 Hours

----- Isopluvial (inches)

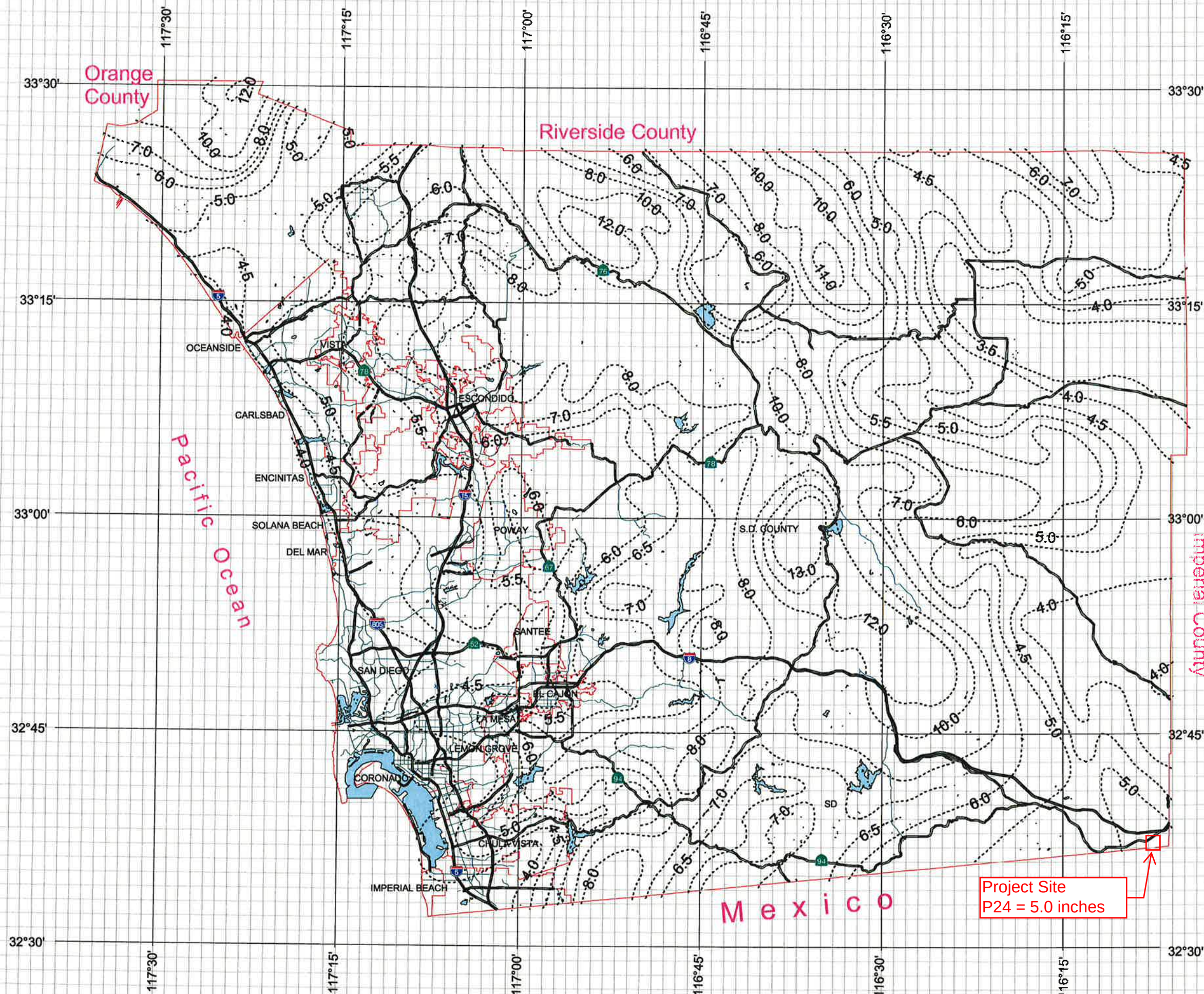


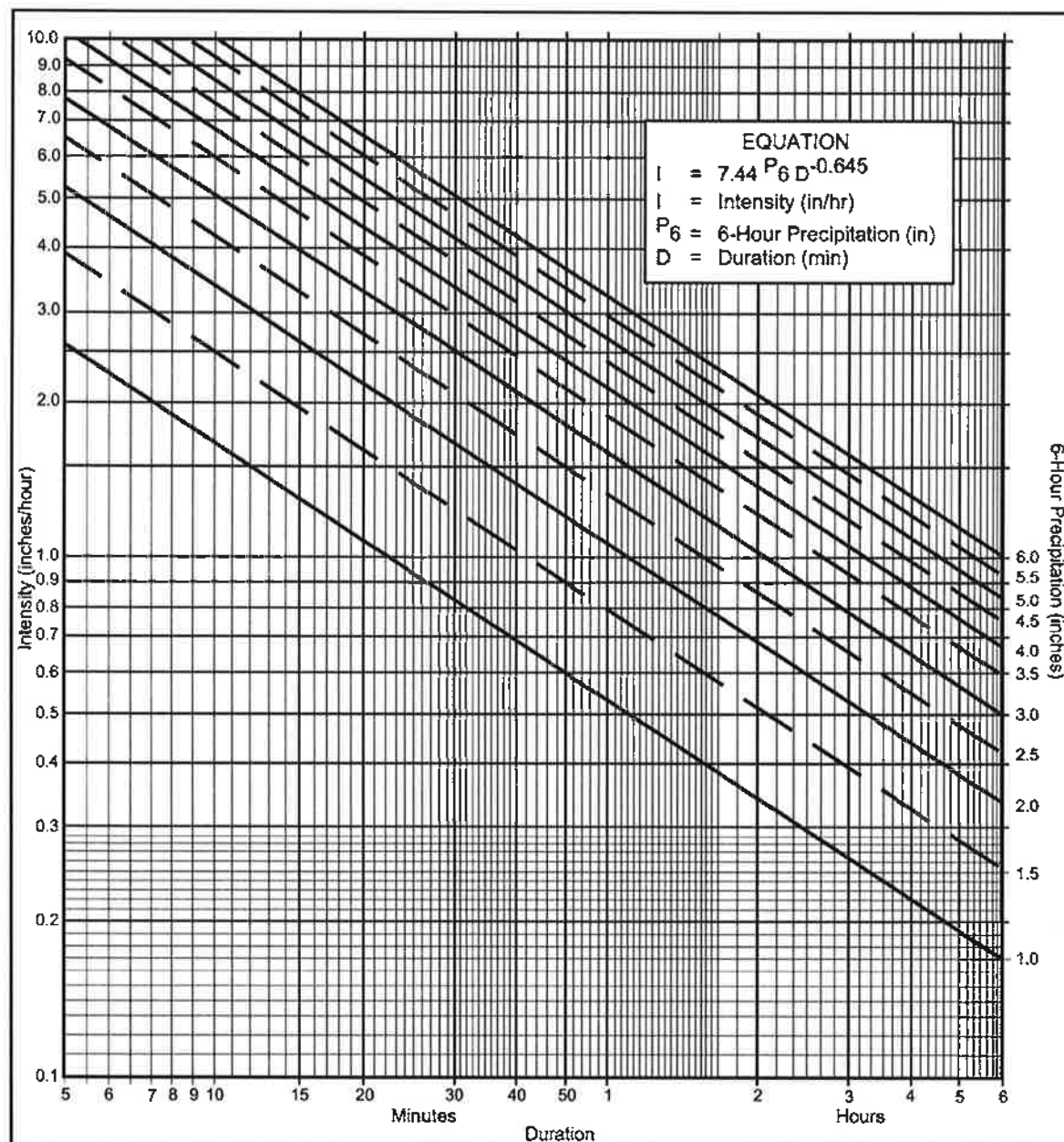
3 0 3 Miles

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Directions for Application:

- (1) From precipitation maps determine 6 hr and 24 hr amounts for the selected frequency. These maps are included in the County Hydrology Manual (10, 50, and 100 yr maps included in the Design and Procedure Manual).
- (2) Adjust 6 hr precipitation (if necessary) so that it is within the range of 45% to 65% of the 24 hr precipitation (not applicable to Desert).
- (3) Plot 6 hr precipitation on the right side of the chart.
- (4) Draw a line through the point parallel to the plotted lines.
- (5) This line is the intensity-duration curve for the location being analyzed.

Application Form:

- (a) Selected frequency 100 year
- (b) $P_6 = \underline{3.0}$ in., $P_{24} = \underline{5.0}$, $\frac{P_6}{P_{24}} = \underline{60} \%$ ⁽²⁾
- (c) Adjusted $P_6^{(2)} = \underline{\hspace{1cm}}$ in.
- (d) $t_x = \underline{\hspace{1cm}}$ min.
- (e) $I = \underline{\hspace{1cm}}$ in./hr.

Note: This chart replaces the Intensity-Duration-Frequency curves used since 1965.

P6	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
Duration	I	I	I	I	I	I	I	I	I	I	I
5	2.63	3.95	5.27	6.59	7.90	9.22	10.54	11.86	13.17	14.49	15.81
7	2.12	3.18	4.24	5.30	6.36	7.42	8.48	9.54	10.60	11.66	12.72
10	1.68	2.53	3.37	4.21	5.05	5.90	6.74	7.58	8.42	9.27	10.11
15	1.30	1.95	2.59	3.24	3.89	4.54	5.19	5.84	6.49	7.13	7.78
20	1.08	1.62	2.15	2.69	3.23	3.77	4.31	4.85	5.39	5.93	6.46
25	0.93	1.40	1.87	2.33	2.80	3.27	3.73	4.20	4.67	5.13	5.60
30	0.83	1.24	1.66	2.07	2.49	2.90	3.32	3.73	4.15	4.56	4.98
40	0.69	1.03	1.38	1.72	2.07	2.41	2.76	3.10	3.45	3.79	4.13
50	0.60	0.90	1.19	1.49	1.79	2.09	2.39	2.69	2.98	3.28	3.58
60	0.53	0.80	1.06	1.33	1.59	1.86	2.12	2.39	2.65	2.92	3.18
90	0.41	0.61	0.82	1.02	1.23	1.43	1.63	1.84	2.04	2.25	2.45
120	0.34	0.51	0.68	0.85	1.02	1.19	1.36	1.53	1.70	1.87	2.04
150	0.29	0.44	0.59	0.73	0.88	1.03	1.18	1.32	1.47	1.62	1.76
180	0.26	0.39	0.52	0.65	0.78	0.91	1.04	1.18	1.31	1.44	1.57
240	0.22	0.33	0.43	0.54	0.65	0.76	0.87	0.98	1.08	1.19	1.30
300	0.19	0.28	0.38	0.47	0.56	0.66	0.75	0.85	0.94	1.03	1.13
360	0.17	0.25	0.33	0.42	0.50	0.58	0.67	0.75	0.84	0.92	1.00

Intensity-Duration Design Chart - Template

FIGURE

3-1

**Table 3-1
RUNOFF COEFFICIENTS FOR URBAN AREAS**

Land Use		Runoff Coefficient "C"				
NRCS Elements	County Elements	% IMPER.	Soil Type			
			A	B	C	D
Undisturbed Natural Terrain (Natural)	Permanent Open Space	0*	0.20	0.25	0.30	0.35
Low Density Residential (LDR)	Residential, 1.0 DU/A or less	10	0.27	0.32	0.36	0.41
Low Density Residential (LDR)	Residential, 2.0 DU/A or less	20	0.34	0.38	0.42	0.46
Low Density Residential (LDR)	Residential, 2.9 DU/A or less	25	0.38	0.41	0.45	0.49
Medium Density Residential (MDR)	Residential, 4.3 DU/A or less	30	0.41	0.45	0.48	0.52
Medium Density Residential (MDR)	Residential, 7.3 DU/A or less	40	0.48	0.51	0.54	0.57
Medium Density Residential (MDR)	Residential, 10.9 DU/A or less	45	0.52	0.54	0.57	0.60
Medium Density Residential (MDR)	Residential, 14.5 DU/A or less	50	0.55	0.58	0.60	0.63
High Density Residential (HDR)	Residential, 24.0 DU/A or less	65	0.66	0.67	0.69	0.71
High Density Residential (HDR)	Residential, 43.0 DU/A or less	80	0.76	0.77	0.78	0.79
Commercial/Industrial (N. Com)	Neighborhood Commercial	80	0.76	0.77	0.78	0.79
Commercial/Industrial (G. Com)	General Commercial	85	0.80	0.80	0.81	0.82
Commercial/Industrial (O.P. Com)	Office Professional/Commercial	90	0.83	0.84	0.84	0.85
Commercial/Industrial (Limited I.)	Limited Industrial	90	0.83	0.84	0.84	0.85
Commercial/Industrial (General I.)	General Industrial	95	0.87	0.87	0.87	0.87

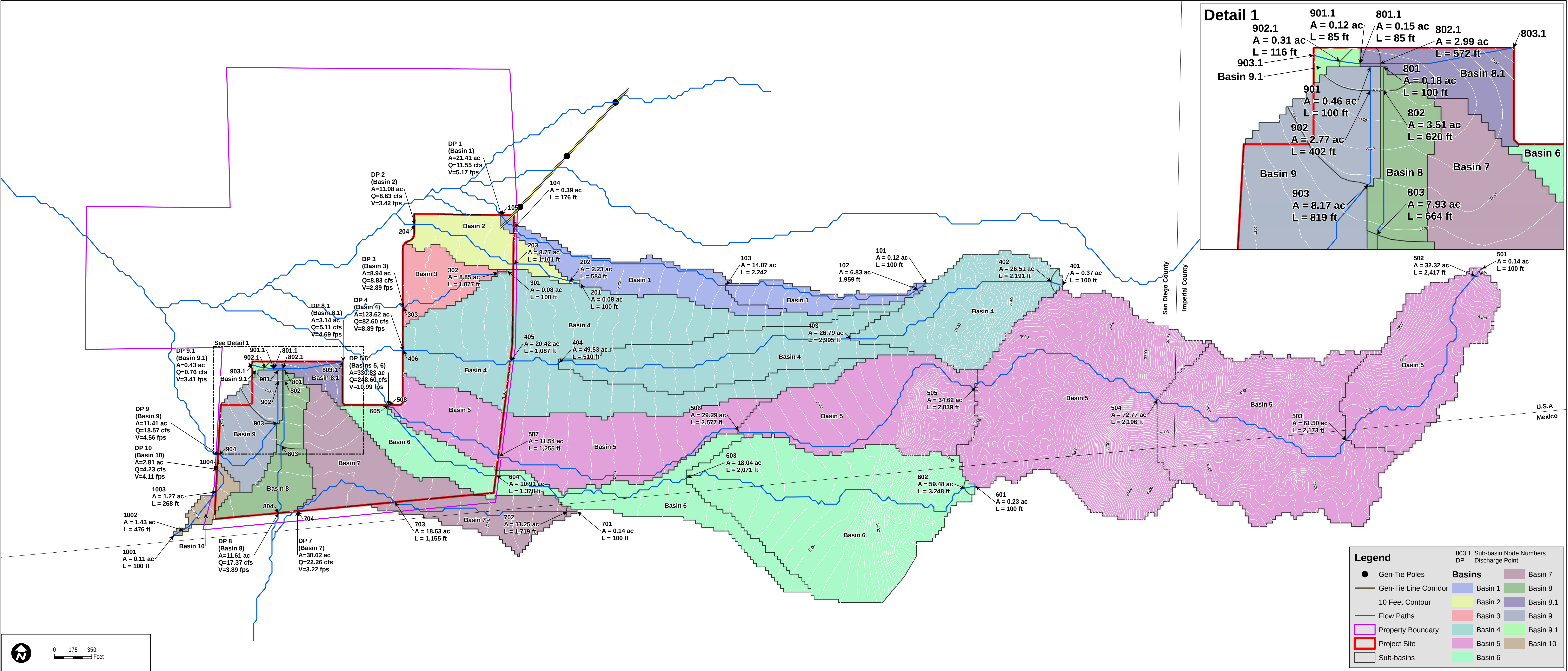
*The values associated with 0% impervious may be used for direct calculation of the runoff coefficient as described in Section 3.1.2 (representing the pervious runoff coefficient, C_p , for the soil type), or for areas that will remain undisturbed in perpetuity. Justification must be given that the area will remain natural forever (e.g., the area is located in Cleveland National Forest).

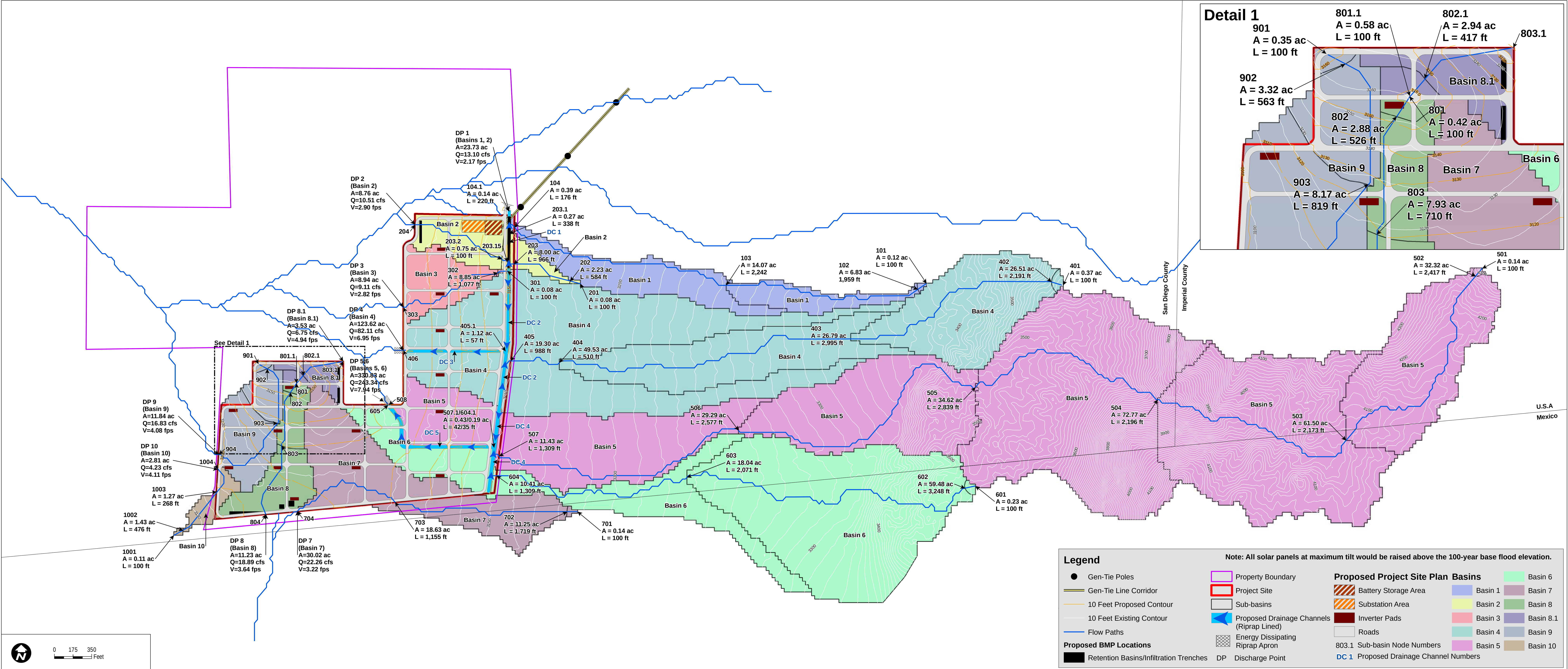
DU/A = dwelling units per acre

NRCS = National Resources Conservation Service

APPENDIX D

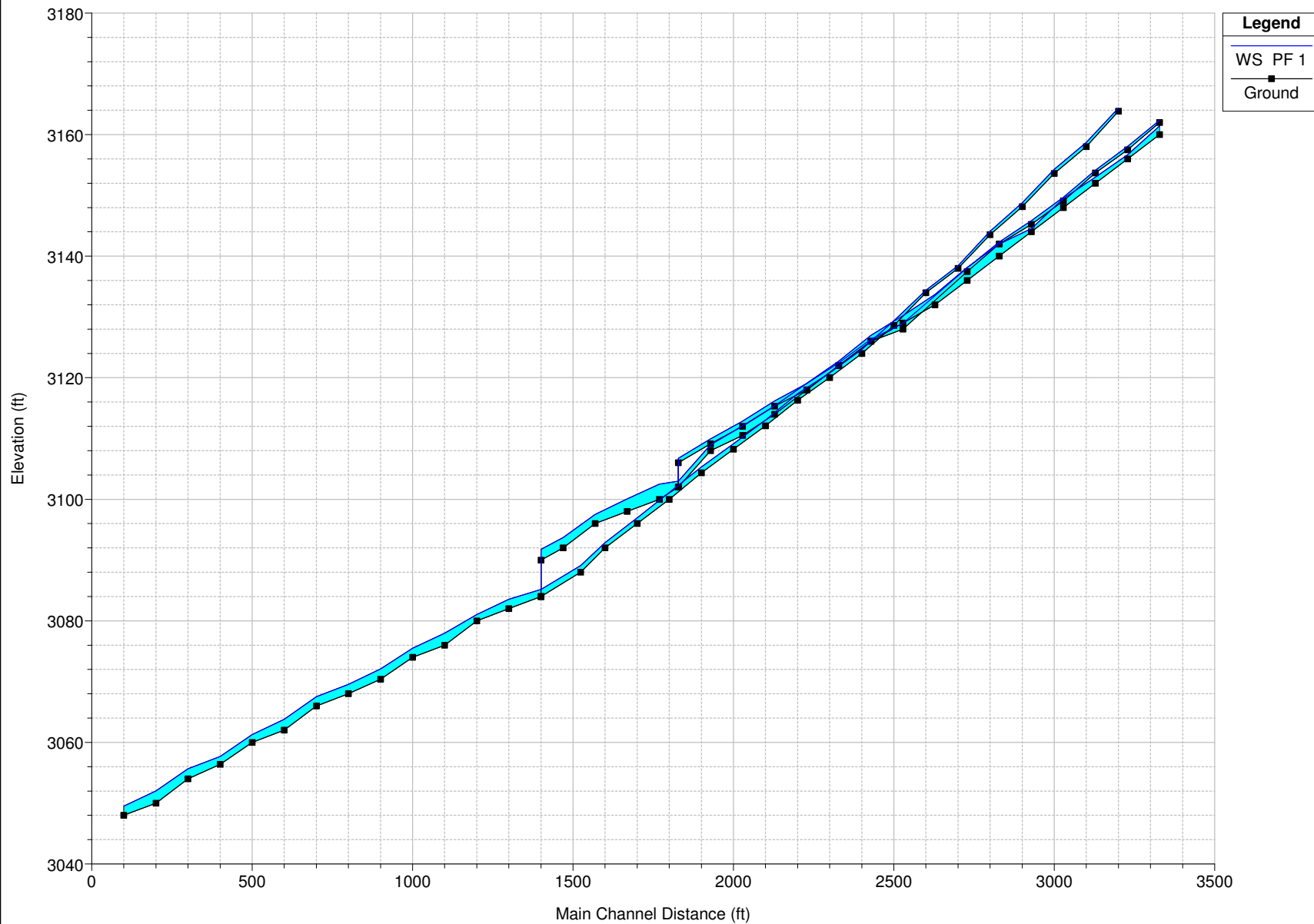
Figures 5 and 6





APPENDIX E

HEC-RAS Results

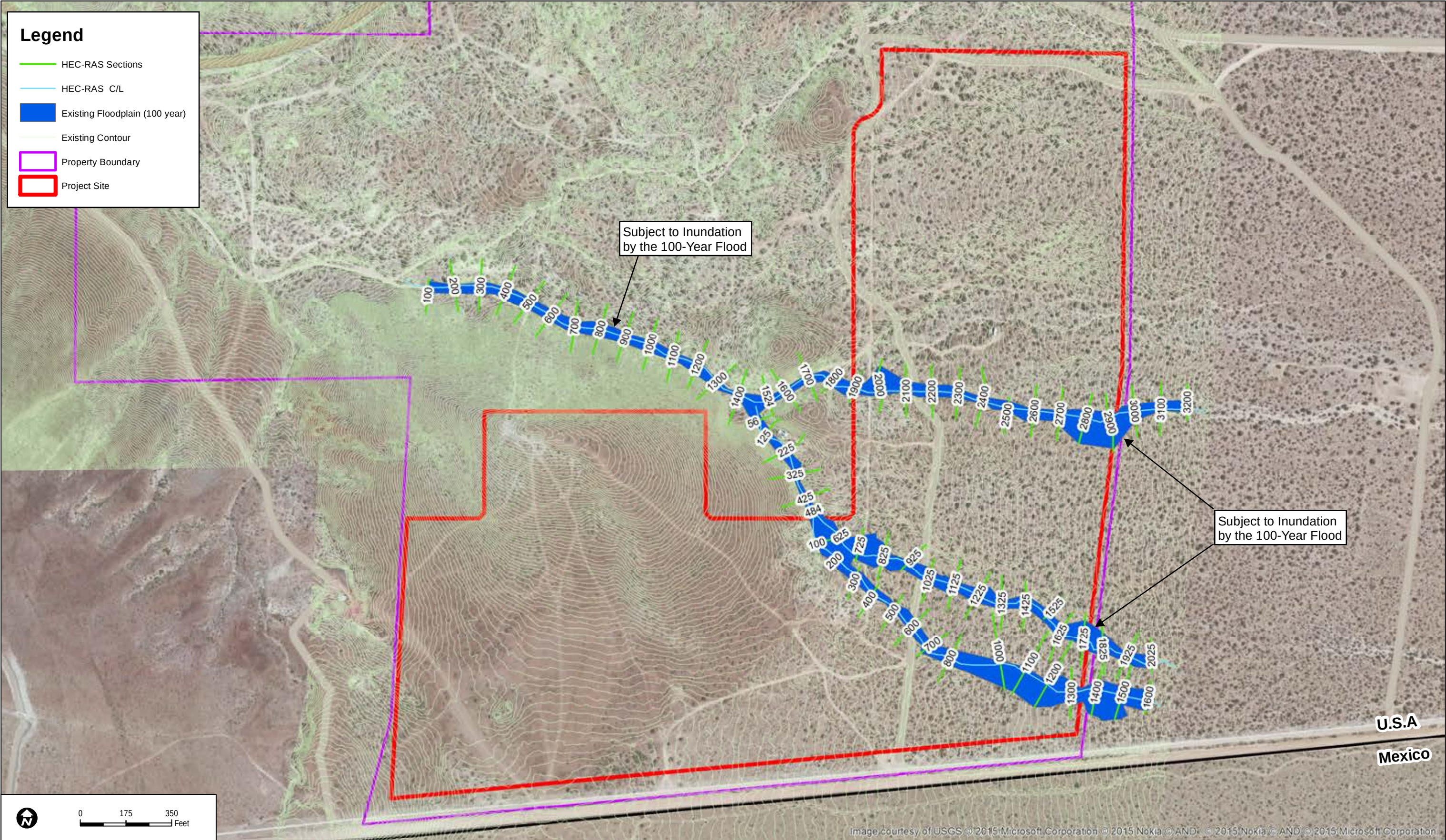


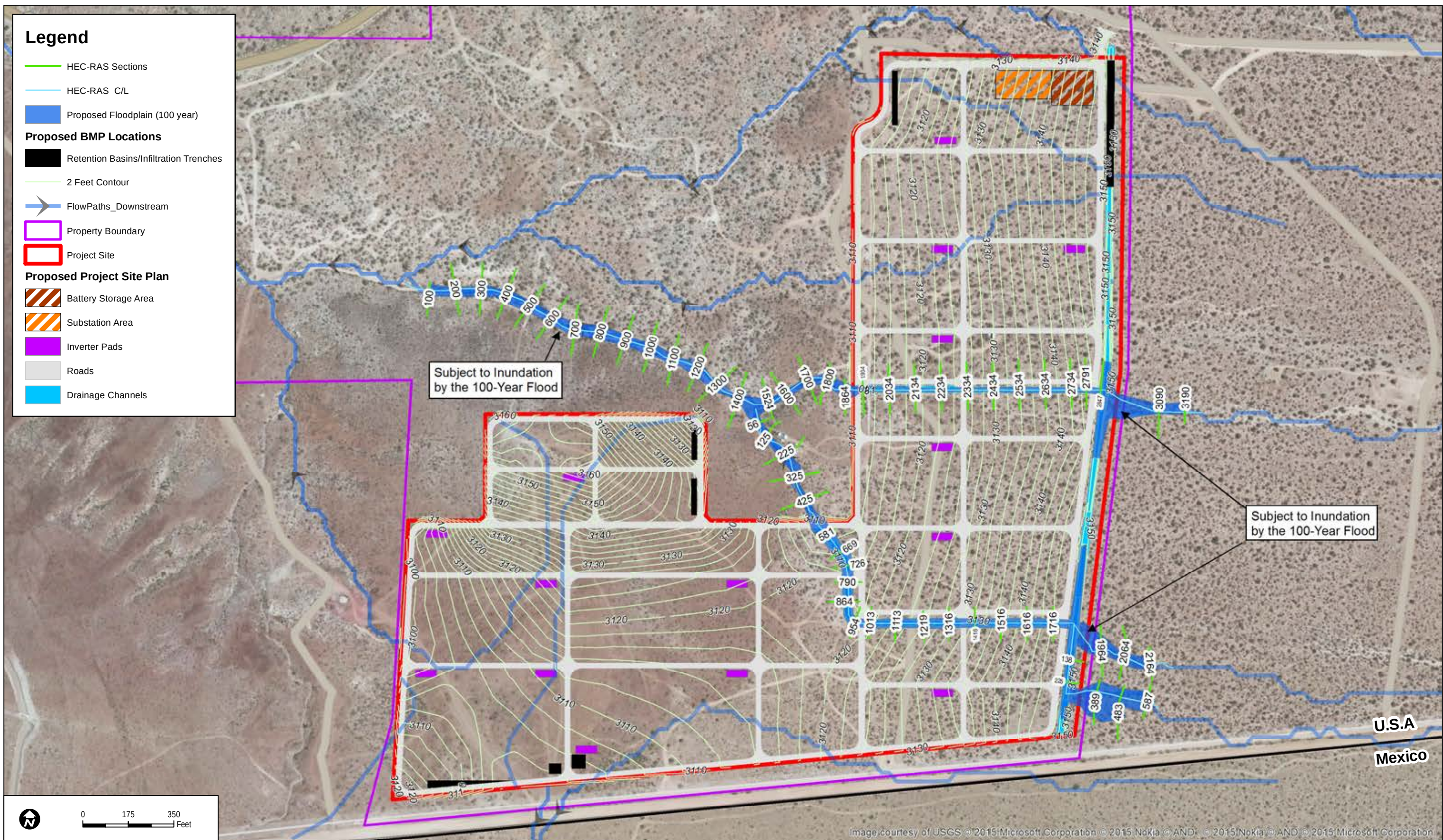
HEC-RAS Plan: ExistingCond Profile: PF 1

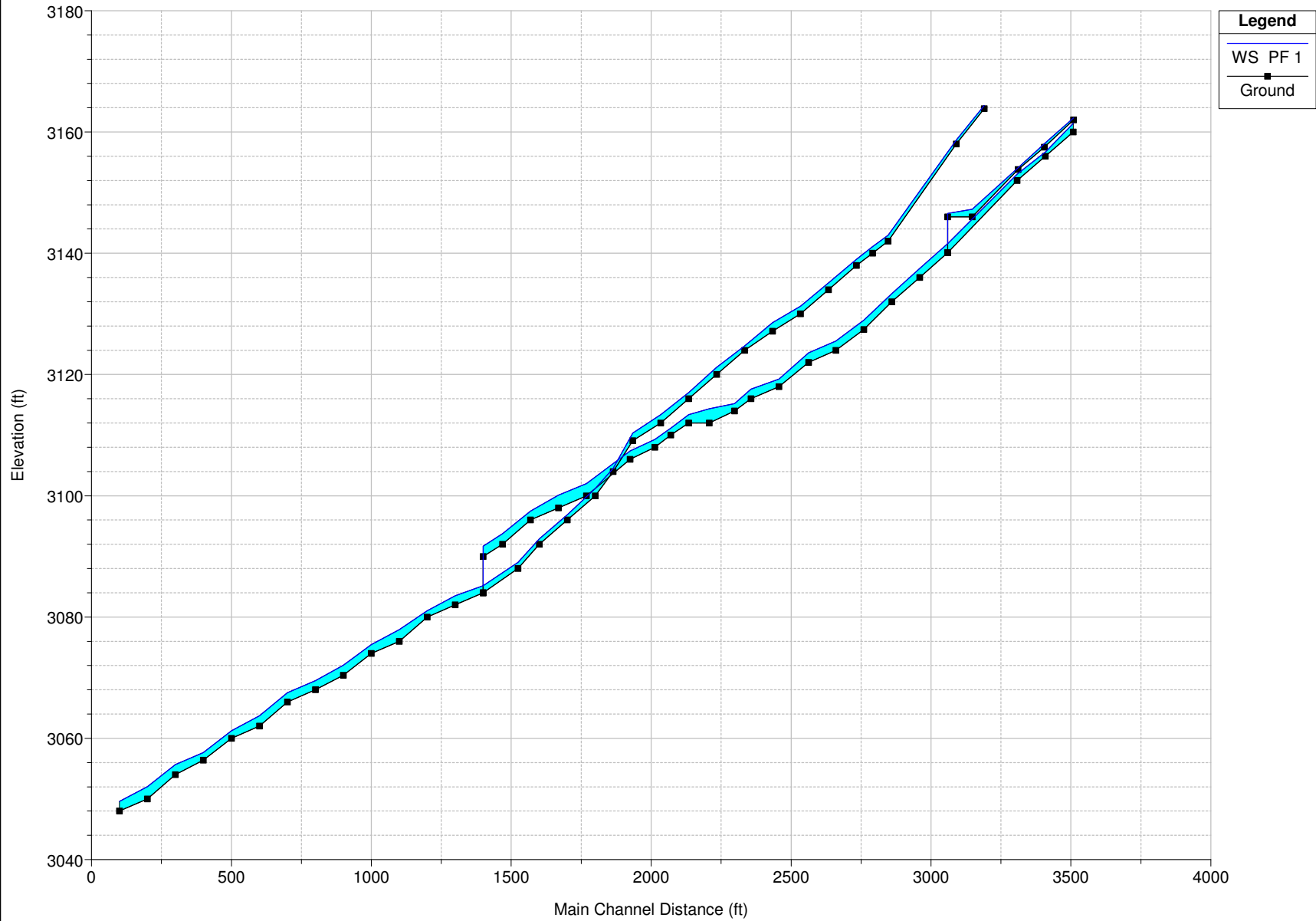
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
4	3200	PF 1	74.00	3163.85	3164.38	3164.38	3164.56	0.042060	3.91	23.84	67.19	1.14
4	3100	PF 1	74.00	3158.02	3158.71	3158.87	3159.24	0.068255	5.82	12.71	27.29	1.50
4	3000	PF 1	74.00	3153.60	3154.32	3154.32	3154.49	0.033672	3.36	22.01	63.52	1.01
4	2900	PF 1	83.00	3148.15	3148.79	3148.93	3149.26	0.084457	5.53	15.02	40.98	1.61
4	2800	PF 1	83.00	3143.54	3144.11	3144.15	3144.37	0.044017	4.13	20.20	129.81	1.17
4	2700	PF 1	83.00	3138.00	3138.42	3138.53	3138.79	0.072873	4.83	17.18	51.33	1.47
4	2600	PF 1	83.00	3134.00	3134.40	3134.40	3134.58	0.032643	3.43	24.17	66.00	1.00
4	2500	PF 1	83.00	3128.61	3129.36	3129.51	3129.88	0.072413	5.79	14.35	32.54	1.54
4	2400	PF 1	83.00	3124.00	3124.69	3124.72	3124.99	0.034366	4.44	18.68	36.00	1.09
4	2300	PF 1	83.00	3120.00	3120.79	3120.86	3121.18	0.042459	5.03	16.51	30.96	1.21
4	2200	PF 1	83.00	3116.29	3117.37	3117.37	3117.68	0.028988	4.46	18.59	31.25	1.02
4	2100	PF 1	83.00	3112.07	3113.03	3113.18	3113.51	0.064238	5.58	14.88	32.54	1.45
4	2000	PF 1	83.00	3108.24	3109.11	3109.10	3109.26	0.031839	3.11	26.71	83.14	0.97
4	1900	PF 1	83.00	3104.34	3105.33	3105.37	3105.64	0.037236	4.46	18.61	37.87	1.12
4	1800	PF 1	83.00	3100.00	3101.13	3101.26	3101.75	0.040078	6.36	13.04	16.17	1.25
4	1700	PF 1	83.00	3096.00	3096.96	3097.11	3097.60	0.043014	6.42	12.92	16.68	1.29
4	1600	PF 1	83.00	3092.00	3092.86	3092.97	3093.38	0.040809	5.79	14.34	20.99	1.23
4	1524	PF 1	83.00	3088.00	3089.08	3089.31	3089.87	0.051820	7.11	11.68	14.84	1.41
5	2025	PF 1	193.00	3160.00	3161.42	3161.42	3161.80	0.025930	4.94	39.08	52.00	1.00
5	1925	PF 1	193.00	3156.00	3156.70	3156.95	3157.54	0.079782	7.38	26.14	44.20	1.69
5	1825	PF 1	193.00	3152.00	3153.01	3153.01	3153.24	0.031490	3.85	50.07	111.91	1.02
5	1725	PF 1	193.00	3148.00	3149.49	3149.59	3150.11	0.030768	6.30	30.77	67.55	1.14
5	1625	PF 1	193.00	3144.00	3144.53	3144.74	3145.26	0.086941	6.85	28.19	56.96	1.71
5	1525	PF 1	193.00	3140.00	3141.98	3141.98	3142.60	0.022230	6.30	30.63	24.62	1.00
5	1425	PF 1	193.00	3136.00	3138.16	3138.36	3138.85	0.076130	6.68	28.90	53.96	1.61
5	1325	PF 1	193.00	3132.00	3133.69	3133.78	3134.39	0.029294	6.69	28.88	27.12	1.13
5	1225	PF 1	193.00	3128.99	3130.22	3130.37	3130.81	0.043850	6.15	31.39	44.55	1.29
5	1125	PF 1	193.00	3126.00	3126.96	3126.99	3127.34	0.027227	4.92	40.23	139.99	1.02
5	1025	PF 1	193.00	3122.00	3122.74	3122.92	3123.35	0.062730	6.26	30.82	55.78	1.48
5	925	PF 1	193.00	3118.00	3119.07	3119.10	3119.53	0.025293	5.48	36.78	47.74	1.02
5	825	PF 1	193.00	3114.00	3115.36	3115.48	3115.83	0.059013	5.53	34.93	72.79	1.41
5	725	PF 1	193.00	3110.50	3112.08	3112.20	3112.55	0.020878	5.56	39.95	109.66	0.95
5	625	PF 1	193.00	3108.00	3108.98	3109.15	3109.67	0.041228	7.43	33.03	43.19	1.32
6	1600	PF 1	60.00	3162.00	3162.34	3162.34	3162.48	0.035654	3.02	19.86	70.21	1.00
6	1500	PF 1	60.00	3157.50	3158.07	3158.09	3158.20	0.052296	2.97	20.23	98.84	1.15
6	1400	PF 1	60.00	3153.69	3154.12	3154.12	3154.23	0.038349	2.64	22.70	103.68	1.00
6	1300	PF 1	60.00	3149.08	3149.67	3149.72	3149.92	0.048489	4.01	14.97	43.60	1.21
6	1200	PF 1	60.00	3145.22	3145.84	3145.84	3145.98	0.036443	2.92	20.52	77.49	1.00

HEC-RAS Plan: ExistingCond Profile: PF 1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
6	1100	PF 1	60.00	3142.00	3142.32	3142.32	3142.42	0.034642	2.55	23.51	104.79	0.95
6	1000	PF 1	60.00	3137.47	3138.07	3138.08	3138.16	0.053627	2.48	24.19	156.16	1.11
6	800	PF 1	60.00	3128.00	3128.95	3128.88	3129.11	0.020176	3.20	18.74	39.52	0.82
6	700	PF 1	60.00	3126.00	3126.34	3126.34	3126.48	0.035643	2.94	20.39	75.00	0.99
6	600	PF 1	60.00	3122.00	3122.45	3122.48	3122.71	0.039652	4.04	14.84	36.70	1.12
6	500	PF 1	60.00	3118.00	3119.05	3119.02	3119.31	0.025759	4.08	14.74	26.71	0.95
6	400	PF 1	60.00	3115.32	3116.16	3116.16	3116.34	0.034029	3.45	17.39	48.65	1.02
6	300	PF 1	60.00	3112.00	3112.85	3112.89	3113.13	0.038476	4.27	14.04	31.23	1.12
6	200	PF 1	60.00	3109.15	3109.93	3109.93	3110.15	0.032836	3.78	15.88	37.63	1.02
6	100	PF 1	60.00	3106.00	3106.73	3106.73	3106.99	0.030338	4.13	14.54	28.44	1.02
5-2	484	PF 1	249.00	3102.00	3103.00	3103.36	3104.21	0.068623	8.86	28.11	32.13	1.67
5-2	425	PF 1	249.00	3100.00	3102.47	3102.47	3103.18	0.021913	6.76	36.85	26.47	1.01
5-2	325	PF 1	249.00	3098.00	3100.05	3100.11	3100.79	0.026150	6.92	35.98	28.88	1.08
5-2	225	PF 1	249.00	3096.00	3097.53	3097.57	3098.05	0.027452	5.76	43.25	47.51	1.06
5-2	125	PF 1	249.00	3092.00	3093.72	3093.90	3094.46	0.047933	6.90	36.09	45.89	1.37
5-2	56	PF 1	249.00	3090.00	3091.75	3091.75	3092.35	0.022579	6.25	39.81	33.25	1.01
4-2	1400	PF 1	320.00	3084.00	3085.18	3086.47	3091.76	0.379163	20.58	15.55	17.92	3.89
4-2	1300	PF 1	320.00	3082.00	3083.55	3083.55	3084.18	0.022401	6.38	50.13	40.43	1.01
4-2	1200	PF 1	320.00	3080.00	3081.04	3081.11	3081.64	0.028732	6.21	51.55	52.30	1.10
4-2	1100	PF 1	320.00	3076.00	3077.96	3078.09	3078.72	0.029650	6.98	45.83	39.94	1.15
4-2	1000	PF 1	320.00	3074.00	3075.50	3075.50	3076.08	0.022872	6.10	52.42	45.95	1.01
4-2	900	PF 1	320.00	3070.39	3072.08	3072.31	3073.01	0.042133	7.71	41.50	40.64	1.34
4-2	800	PF 1	320.00	3068.00	3069.55	3069.37	3069.95	0.014818	5.10	62.80	52.23	0.82
4-2	700	PF 1	320.00	3066.00	3067.52	3067.52	3068.13	0.022682	6.28	50.97	42.48	1.01
4-2	600	PF 1	320.00	3062.00	3063.81	3064.14	3064.97	0.045415	8.62	37.10	32.36	1.42
4-2	500	PF 1	320.00	3060.00	3061.28	3061.28	3061.83	0.023298	5.96	53.70	49.62	1.01
4-2	400	PF 1	320.00	3056.41	3057.70	3057.94	3058.54	0.048774	7.35	43.51	51.18	1.41
4-2	300	PF 1	320.00	3054.00	3055.67	3055.67	3056.32	0.022088	6.47	49.45	38.57	1.01
4-2	200	PF 1	320.00	3050.00	3052.04	3052.40	3053.24	0.043899	8.80	36.36	29.86	1.41
4-2	100	PF 1	320.00	3048.00	3049.52	3049.59	3050.20	0.025453	6.68	49.00	45.13	1.07







HEC-RAS Plan: PropCond. Profile: PF 1

Reach	River Sta		Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
4	3190	3200	PF 1	74.00	3163.85	3164.36	3164.36	3164.53	0.033222	3.29	22.50	66.46	1.00
4	3090	3100	PF 1	74.00	3158.02	3158.67	3158.87	3159.31	0.091247	6.46	11.46	26.21	1.72
4	2847		PF 1	83.00	3142.00	3142.95	3143.24	3143.92	0.047827	7.90	10.50	12.93	1.55
4	2791		PF 1	83.00	3140.00	3141.10	3141.24	3141.79	0.029053	6.68	12.42	13.48	1.23
4	2734		PF 1	83.00	3138.00	3139.00	3139.23	3139.85	0.039893	7.41	11.19	13.22	1.42
4	2634		PF 1	83.00	3134.00	3135.13	3135.36	3136.00	0.037114	7.49	11.07	12.10	1.38
4	2534		PF 1	83.00	3130.00	3131.25	3131.52	3132.21	0.038474	7.86	10.56	10.93	1.41
4	2434		PF 1	83.00	3127.13	3128.58	3128.64	3129.08	0.023927	5.72	14.52	17.48	1.11
4	2334		PF 1	83.00	3124.00	3124.70	3124.92	3125.39	0.063705	6.64	12.50	25.55	1.67
4	2234		PF 1	83.00	3120.00	3121.18	3121.25	3121.78	0.023011	6.18	13.43	13.72	1.10
4	2134		PF 1	83.00	3116.00	3117.00	3117.38	3118.22	0.059221	8.85	9.38	11.36	1.72
4	2034		PF 1	83.00	3112.00	3113.39	3113.55	3114.16	0.027907	7.04	11.79	11.26	1.21
4	1934		PF 1	83.00	3109.08	3110.32	3110.51	3111.09	0.033712	7.01	11.83	13.36	1.31
4	1864		PF 1	83.00	3104.00	3104.51	3104.90	3106.11	0.221507	10.16	8.17	22.50	2.97
4	1800	1800	PF 1	83.00	3100.00	3101.22	3101.27	3101.72	0.029567	5.70	14.56	16.93	1.08
4	1700	1700	PF 1	83.00	3096.00	3096.89	3097.11	3097.67	0.057729	7.11	11.68	16.18	1.47
4	1600	1600	PF 1	83.00	3092.00	3092.91	3092.97	3093.36	0.032081	5.33	15.56	21.48	1.10
4	1524	1524	PF 1	83.00	3088.00	3089.02	3089.31	3089.94	0.065019	7.72	10.75	14.30	1.57
5	2164	2025	PF 1	193.00	3160.00	3161.41	3161.41	3161.80	0.026143	4.96	38.94	51.86	1.01
5	2064	1925	PF 1	193.00	3156.00	3156.70	3156.96	3157.54	0.078803	7.35	26.25	44.24	1.68
5	1964	1825	PF 1	193.00	3152.00	3153.03	3153.03	3153.25	0.030264	3.88	52.50	113.90	1.00
6	587	1600	PF 1	56.00	3162.00	3162.32	3162.32	3162.46	0.036047	2.97	18.89	69.27	1.00
6	483	1500	PF 1	56.00	3157.50	3158.06	3158.13	3158.30	0.044636	4.51	19.87	98.51	1.20
6	389	1400	PF 1	56.00	3153.82	3154.11	3154.11	3154.22	0.071816	2.78	21.67	102.69	1.28
6	225		PF 1	56.00	3146.00	3147.24	3146.64	3147.31	0.002204	2.14	26.27	23.70	0.35
6	138		PF 1	56.00	3146.00	3146.57	3146.57	3146.85	0.022011	4.21	13.34	24.52	1.00
5-2	1716		PF 1	243.00	3140.08	3141.60	3142.14	3143.36	0.049456	10.66	22.80	18.30	1.68
5-2	1616		PF 1	243.00	3136.00	3137.50	3137.91	3138.91	0.038466	9.55	25.43	19.99	1.49
5-2	1516		PF 1	243.00	3132.00	3133.33	3133.77	3134.80	0.044149	9.70	25.04	21.44	1.58
5-2	1416		PF 1	243.00	3127.44	3128.98	3129.40	3130.40	0.043720	9.57	25.39	22.08	1.57
5-2	1316		PF 1	243.00	3124.00	3125.51	3125.81	3126.68	0.030891	8.69	27.96	21.53	1.34
5-2	1219		PF 1	243.00	3122.00	3123.57	3123.61	3124.32	0.017971	6.92	35.13	25.48	1.04
5-2	1113		PF 1	243.00	3118.00	3119.23	3119.79	3121.03	0.059705	10.76	22.58	20.78	1.82
5-2	1013		PF 1	243.00	3116.00	3117.57	3117.57	3118.27	0.016868	6.72	36.18	26.17	1.01
5-2	954		PF 1	243.00	3114.00	3115.18	3115.62	3116.62	0.048470	9.61	25.30	23.72	1.64
5-2	864		PF 1	243.00	3112.00	3114.36	3113.64	3114.67	0.004693	4.44	54.71	27.88	0.56
5-2	790		PF 1	243.00	3112.00	3113.40	3113.40	3114.04	0.017099	6.41	37.91	29.90	1.00
5-2	726		PF 1	243.00	3110.00	3111.15	3111.49	3112.35	0.041566	8.81	27.59	26.34	1.52
5-2	669		PF 1	243.00	3108.00	3109.30	3109.53	3110.30	0.029806	8.01	30.34	25.96	1.31
5-2	581		PF 1	243.00	3106.00	3107.37	3107.43	3108.09	0.019927	6.81	35.67	28.79	1.08
5-2	425		PF 1	243.00	3100.00	3102.01	3102.42	3103.41	0.048427	9.49	25.66	21.58	1.48
5-2	325		PF 1	243.00	3098.00	3100.11	3100.11	3100.75	0.022480	6.45	37.67	29.57	1.01

HEC-RAS Plan: PropCond. Profile: PF 1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
5-2	225	PF 1	243.00	3096.00	3097.46	3097.55	3098.04	0.032902	6.11	39.76	45.90	1.16
5-2	125	PF 1	243.00	3092.00	3093.76	3093.89	3094.41	0.040134	6.47	37.58	46.42	1.26
5-2	56	PF 1	243.00	3090.00	3091.69	3091.71	3092.33	0.023413	6.46	37.80	32.50	1.03
4-2	1400	PF 1	313.00	3084.00	3085.16	3086.45	3091.74	0.384674	20.58	15.21	17.72	3.91
4-2	1300	PF 1	313.00	3082.00	3083.50	3083.52	3084.17	0.022321	6.58	48.33	40.00	1.02
4-2	1200	PF 1	313.00	3080.00	3081.03	3081.09	3081.62	0.028694	6.17	50.77	52.22	1.10
4-2	1100	PF 1	313.00	3076.00	3077.92	3078.08	3078.72	0.028992	7.17	44.35	39.37	1.15
4-2	1000	PF 1	313.00	3074.00	3075.47	3075.48	3076.05	0.023570	6.13	51.07	45.51	1.02
4-2	900	PF 1	313.00	3070.39	3072.06	3072.28	3073.00	0.039994	7.76	40.60	40.46	1.32
4-2	800	PF 1	313.00	3068.00	3069.52	3069.36	3069.93	0.015402	5.13	61.00	51.68	0.83
4-2	700	PF 1	313.00	3066.00	3067.51	3067.51	3068.15	0.020251	6.48	50.58	42.36	0.98
4-2	600	PF 1	313.00	3062.00	3063.73	3064.10	3065.04	0.050459	9.20	34.45	31.36	1.50
4-2	500	PF 1	313.00	3060.00	3061.26	3061.26	3061.83	0.021308	6.08	52.89	49.48	0.98
4-2	400	PF 1	313.00	3056.41	3057.66	3057.92	3058.56	0.055019	7.62	41.08	50.14	1.48
4-2	300	PF 1	313.00	3054.00	3055.65	3055.65	3056.29	0.022310	6.45	48.51	38.29	1.01
4-2	200	PF 1	313.00	3050.00	3052.01	3052.34	3053.22	0.043295	8.83	35.46	29.39	1.40
4-2	100	PF 1	313.00	3048.00	3049.57	3049.58	3050.14	0.022991	6.06	51.67	46.13	1.01