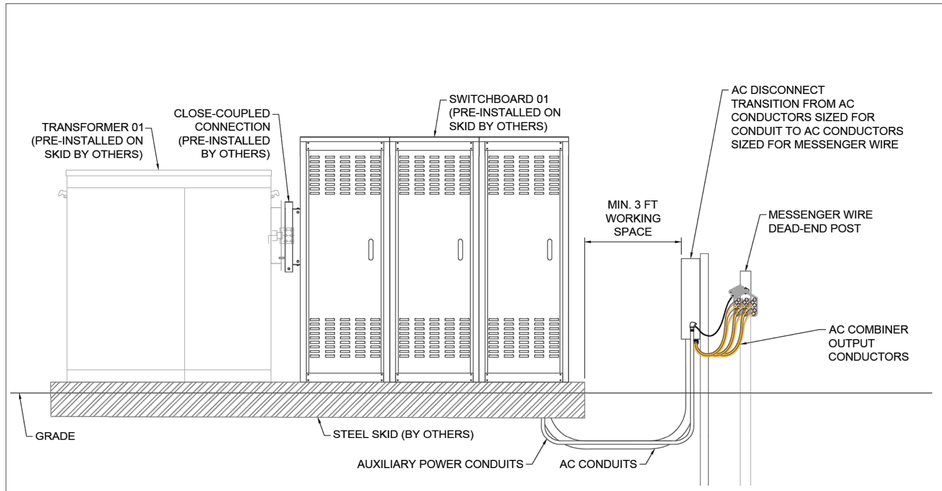

NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.
2. SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE FOR EQUIPMENT CONCRETE PAD/VAULT DETAILS AND REQUIREMENTS.
3. DIMENSIONS ARE MINIMUM AND SHOWN FOR REFERENCE ONLY.
4. FOUNDATION DETAILS ARE FOR REFERENCE ONLY. REFER TO CIVIL DESIGN SET FOR FINAL EQUIPMENT FOUNDATIONS.
5. REFER TO EQUIPMENT SKID DRAWINGS FOR SKID SPECIFICATIONS AND DIMENSIONS.
6. WORKING SPACE SHALL PERMIT ALL HINGED DOORS TO A MINIMUM OF A 90° OPENING.
7. WORKING CLEARANCE BETWEEN AND IN FRONT OF THE EQUIPMENT DOORS AND PANELS SHALL CONFORM TO NEC REQUIREMENTS.
8. RACK MOUNTED EQUIPMENT ARE SUPPORTED BY GALVANIZED STEEL EQUIPMENT RACK BY SUBCONTRACTOR.
9. SUBCONTRACTOR (ELECTRICAL CONTRACTOR) SHALL PROVIDE SHOP DRAWINGS/SUBMITTALS FOR EQUIPMENT RACKS.
10. ALL EQUIPMENT SUPPORT HARDWARE, E.G. STRUTS, CLAMPS, FASTENERS, ETC SHALL BE GALVANIZED STEEL, STAINLESS STEEL OR OTHER APPROVED MATERIAL SUITABLE FOR OUTDOOR INSTALLATION.
11. EXPOSED STRUT ENDS SHALL BE COVERED USING VINYL STRUT CAPS.
12. PIPE CAPS SHALL BE USED ON ANY OPEN ENDED PIPES.
13. CIVIL DESIGN DRAWINGS SHALL SUPERSEDE CIVIL CONDITIONS AND FEATURES SHOWN ON THE ELECTRICAL DRAWINGS.

601/3 ARRAY 01 EQUIPMENT ELEVATION

0 30 FT 60 FT

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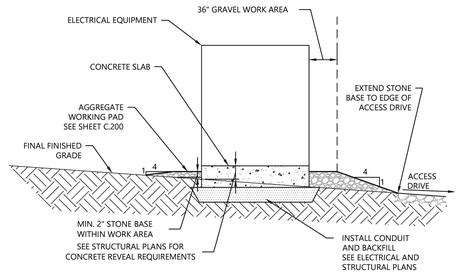
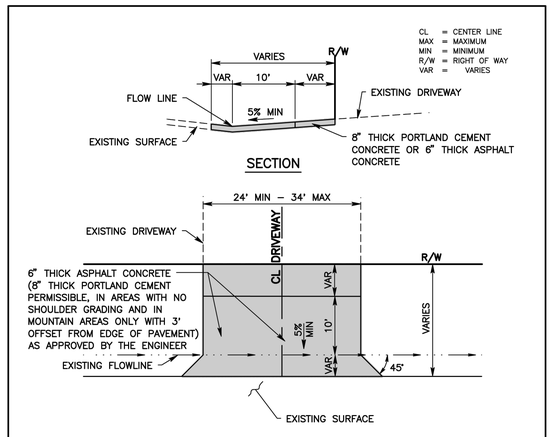


604/3 PERMANENT TYPICAL EQUIPMENT PAD DETAIL

NOT TO SCALE



NOTES:

1. DRIVEWAY APPROACH LOCATION SHALL BE AS INDICATED IN THE SAN BERNARDINO COUNTY TRANSPORTATION DEPARTMENT ROAD PLANNING AND DESIGN MANUAL AND PER STANDARD 130.
2. SURFACING MATERIAL SHALL BE:
   A) 6" THICK TYPE A ASPHALT CONCRETE.
   B) IN AREAS NOT REGULARLY SUBJECTED TO SNOW PLOWING, 6" THICK (MINOR CONCRETE) PORTLAND CEMENT CONCRETE MAY BE USED.
   C) UNPAVED, IF THE ROADWAY IS UNPAVED.
3. FLOWLINE GRADE SHALL BE MAINTAINED.
4. WHERE EXISTING BERM IS REMOVED, THE DRIVEWAY APPROACH SHALL BE CONSTRUCTED TO AN ELEVATION EQUAL IN HEIGHT TO CONTROL DRAINAGE.

REGISTERED PROFESSIONAL ENGINEER BRENDON P. BIGGS NO. C57127 12-31-2025 CIVIL STATE OF CALIFORNIA

SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS

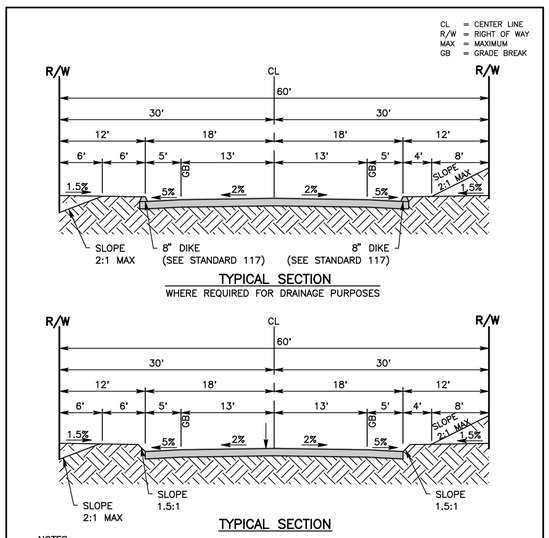
COMMERCIAL DRIVEWAY APPROACH WITHOUT CURB AND GUTTER

BRENDON P. BIGGS, PE
DIRECTOR OF PUBLIC WORKS/ROAD COMMISSIONER

129C

602/3 ENTRANCE PAVING WITHIN ROAD DEDICATION

NOT TO SCALE



NOTES:

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOILS TESTS AND SO INDICATED ON CONSTRUCTION PLANS.
2. CONSTRUCTION OUTSIDE RIGHT OF WAY LINE SHALL REQUIRE SLOPE EASEMENTS.
3. SLOPE REQUIREMENT MAY BE VARIED BY SUBMISSION OF SOILS REPORT.

REGISTERED PROFESSIONAL ENGINEER BRENDON P. BIGGS NO. C57127 12-31-2025 CIVIL STATE OF CALIFORNIA

SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS

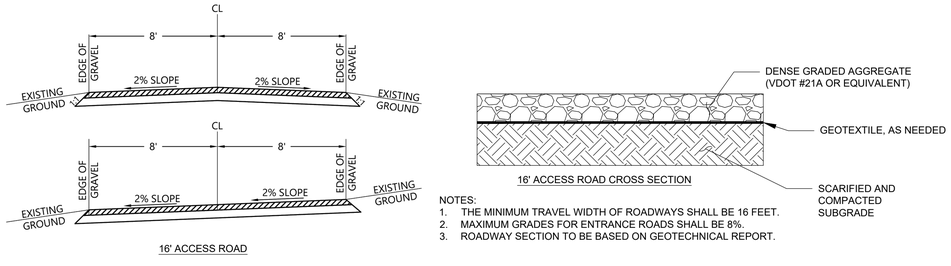
PAVED ROAD

BRENDON P. BIGGS, PE
DIRECTOR OF PUBLIC WORKS/ROAD COMMISSIONER

114A

603/3 PUBLIC ROADWAY PAVING DETAIL

NOT TO SCALE



NOTES:

1. THE MINIMUM TRAVEL WIDTH OF ROADWAYS SHALL BE 16 FEET.
2. MAXIMUM GRADES FOR ENTRANCE ROADS SHALL BE 8%.
3. ROADWAY SECTION TO BE BASED ON GEOTECHNICAL REPORT.

605/3 PROPOSED TYPICAL ACCESS ROAD DETAIL

NOT TO SCALE

CONCEPTUAL DESIGN

NOT FOR CONSTRUCTION

Rev.	Date	Description	By	Chk
2	12/16/2025	SITE LAYOUT REVISIONS	BW	SL
1	3/20/2025	ISSUED FOR REVIEW	SW	SL
0	2/6/2025	ISSUED FOR REVIEW	SW	SL

ERM

BEAR VALLEY SOLAR ENERGY PROJECT
CONSTRUCTION DETAILS - 1

DISCIPLINE NO.

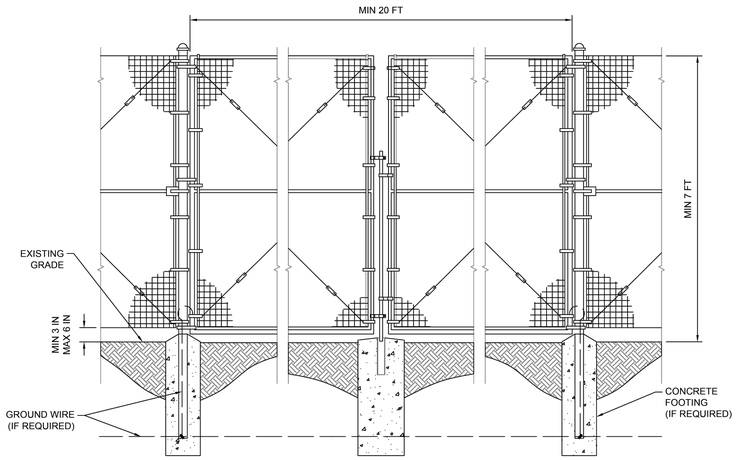
CA - BEAR VALLEY ERWIN RANCH
2125 ERWIN RANCH ROAD
BIG BEAR CITY, CA 92314

REV. 2

SCALE	DESIGNED BY	PROJECT NUMBER	SHEET NO.
AS NOTED	SW	0739207	6
DATE DRAWN	DRAWN BY		
12/16/2025	SW		

Environmental Resources Management

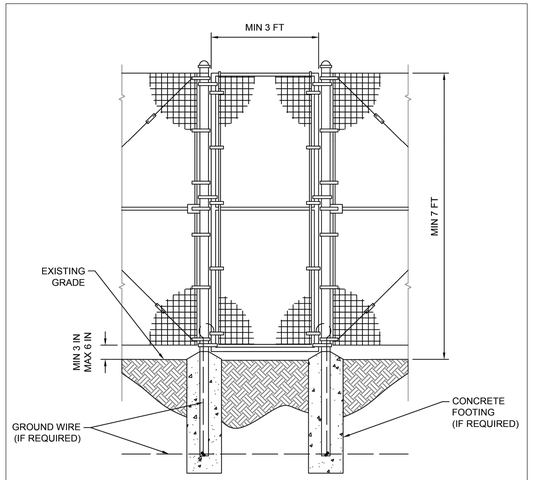
FILE PATH: \\ahdcfs02\data\Annapolis\Team\DMM\CAD\Clients E-H\EDF Renewables\0739207 - Bear Valley Solar Energy Project\Task 7_Civil Design and Engineering\0739207 - Bear Valley Solar Energy - Site Plan.dwg DETAIL-1, PRINTED ON 12/12/2025 BY Bethany Wolinski



NOTES:

1. THE PURPOSE OF THIS DRAWING IS TO EXHIBIT A BEST PRACTICE OR STANDARD INSTALLATION METHOD AND DOES NOT REFLECT AN APPROVED DESIGN.
2. FENCE COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F567.

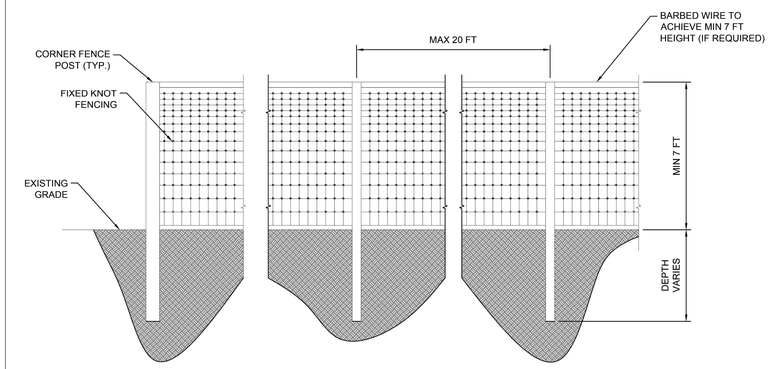
701 / 3 VEHICLE GATE DETAIL
NOT TO SCALE



NOTES:

1. THE PURPOSE OF THIS DRAWING IS TO EXHIBIT A BEST PRACTICE OR STANDARD INSTALLATION METHOD AND DOES NOT REFLECT AN APPROVED DESIGN.
2. FENCE COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F567.

702 / 3 PERSONNEL GATE DETAIL
NOT TO SCALE



NOTES:

1. THE PURPOSE OF THIS DRAWING IS TO EXHIBIT A BEST PRACTICE OR STANDARD INSTALLATION METHOD AND DOES NOT REFLECT AN APPROVED DESIGN.
2. AREAS OF PROPOSED FENCE INSTALLATION NEAR LIMITS OF DISTURBANCE BOUNDARY MAY HAVE FENCE POSTS INSTALLED OUTSIDE OF THE PROJECT FOOTPRINT TO PROVIDE GREATER WORKING CLEARANCE DURING INSTALLATION.
3. FENCE COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F567.

703 / 3 PERIMETER SECURITY FENCE DETAIL
NOT TO SCALE

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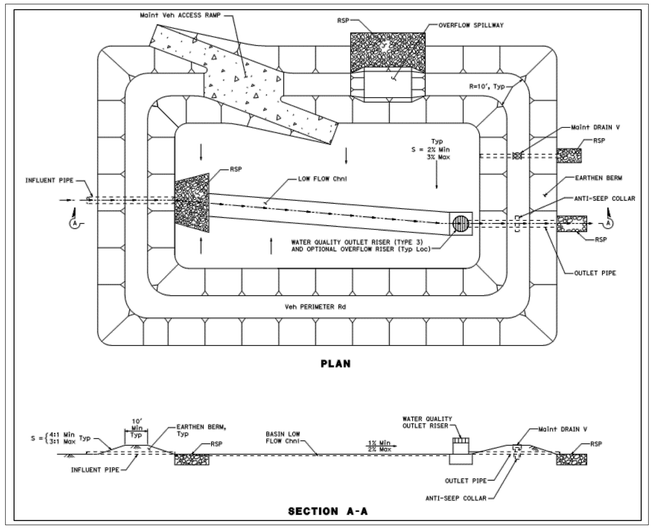
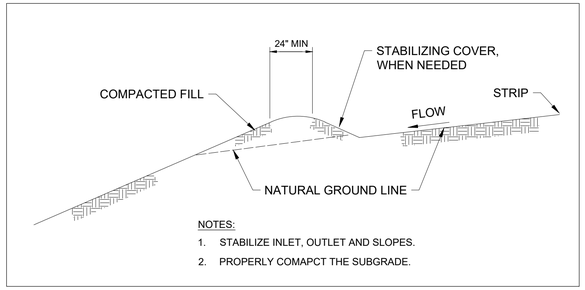


DETENTION BASIN SUMMARY								
DETENTION BASIN	SHAPE	BOTTOM LENGTH, FT.	BOTTOM WIDTH, FT.	SIDE SLOPE (H:V)	DEPTH, FT.	FREEBOARD, FT.	OVERALL DEPTH, FT.	STORAGE VOLUME, CU. FT.
A	RECTANGLE	146	66	3:1	2	2	4	21,905
B	IRREGULAR	76	50	3:1	2	2	4	6,787
C	IRREGULAR	80	48	3:1	2	2	4	9,309
						PROVIDED TOTAL VOLUME, CU. FT.		38,001
						PROVIDED TOTAL VOLUME, AC.-FT.		0.87
						REQUIRED TOTAL VOLUME, AC.-FT.		0.063

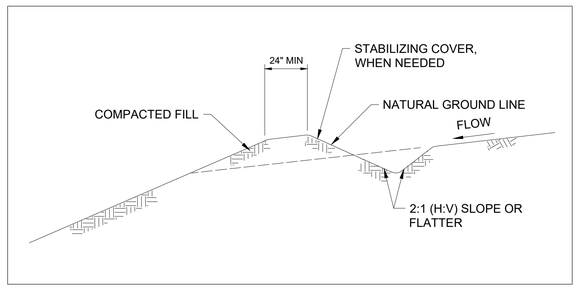
704 / 3 DETENTION BASIN DETAIL
NOT TO SCALE



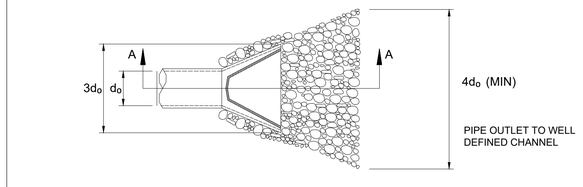
NOTES:

1. STABILIZE INLET, OUTLET AND SLOPES.
2. PROPERLY COMAPCT THE SUBGRADE.

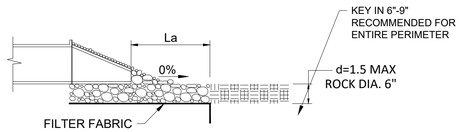
705 / 3 RUNOFF DIVERSION TYPICAL DETAIL
NOT TO SCALE



706 / 3 DRAINAGE SWALE TYPICAL DETAIL
NOT TO SCALE



PLAN VIEW



SECTION A-A

Pipe Diameter inches	Discharge ft³/s	Apron Length, La ft	Rip Rap D_{50} Diameter Min inches
12	5	10	4
	10	13	6
18	10	10	6
	20	16	8
	30	23	12
	40	26	16
24	30	16	8
	40	26	8
	50	26	12
	60	30	16

707 / 3 OUTLET PROTECTION TYPICAL DETAIL
NOT TO SCALE

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

Rev.	Date	Description	By	Chk
2	12/16/2025	SITE LAYOUT REVISIONS	BW	SL
1	3/20/2025	ISSUED FOR REVIEW	SW	SL
0	2/6/2025	ISSUED FOR REVIEW	SW	SL

ERM

BEAR VALLEY SOLAR ENERGY PROJECT
CONSTRUCTION DETAILS - 2

DISCIPLINE NO.

CA - BEAR VALLEY ERWIN RANCH
2125 ERWIN RANCH ROAD
BIG BEAR CITY, CA 92314

REV. 2

SCALE	DESIGNED BY	PROJECT NUMBER	SHEET NO.
AS NOTED	SW	0739207	7
DATE DRAWN 12/16/2025	DRAWN BY SW		

Environmental Resources Management

FILE PATH: \\sbdcfs02\data\Annapolis\Team\DMR\CAD\Clients E-H\EDF Renewables\0739207 - Bear Valley Solar Energy Project\Task 7_Civil Design and Engineering\0739207 - Bear Valley Solar Energy - Site Plan.dwg DETAIL-2, PRINTED ON 12/16/2025 BY Bethany Wolinski