

FLOOD ZONE MAP FLOOD ZONE MAP 35001C0136G

EXISTING ON-SITE CONDITIONS

THE PROJECT SITE CONSISTS OF 30.60 ACRES (MORE OR LESS) AND IS CURRENTLY UNDEVELOPED AND CONSISTS OF BARE LAND THAT HAS BEEN RECENTLY CLEANED AND DISTURBED BY HUMAN ACTIVITY WITH SPARSE NATIVE VEGETATION. THE PROJECT SITE SLOPES TO THE WEST MODERATELY AT ABOUT 3%. THE EASTERN AND SOUTHERN EDGES OF THE PROJECT SITE HAVE BERMS ALONG THE ENTIRE LENGTHS, THEREFORE, THE PROJECT SITE DOES NOT RECEIVE ANY SIGNIFICANT OFF-SITE FLOWS. THE EXISTING LAND TREATMENTS AND EXISTING DRAINAGE BASINS FOR THE SITE ARE PROVIDED IN THE DRAINAGE DATA TABLES ON THIS SHEET.

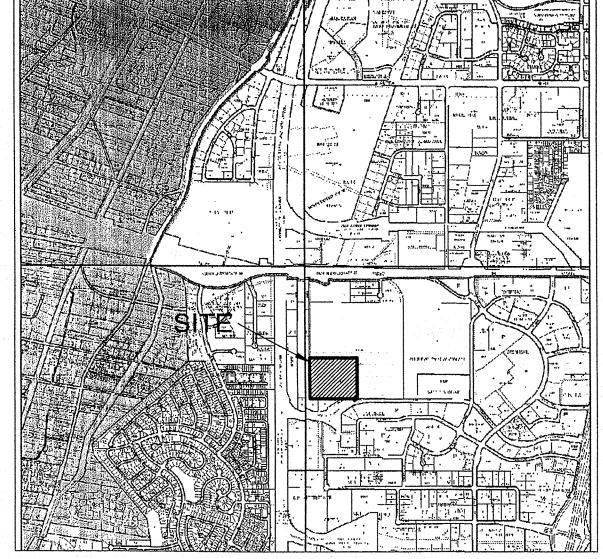
PROPOSED DEVELOPMENT

THE PROPOSED DEVELOPMENT CONSISTS OF CONSTRUCTING A SOLAR PANEL ARRAY FOR THE PURPOSES OF GENERATING ELECTRIC POWER. THE SOLAR PANELS WILL BE LOCATED IN THE CENTER OF THE PROJECT AREA. AN UNIMPROVED MAINTENANCE ROAD WILL BE CONSTRUCTED AROUND THE SOLAR PANELS. STORMWATER FLOWS WILL BE ROUTED TO THE NORTHWEST CORNER OF THE SITE TO A DRAINAGE CHANNEL. THE DRAINAGE CHANNEL WILL BE LOCATED ALONG THE WEST EDGE OF THE MAINTENANCE ROAD WHICH RUNS NORTH-SOUTH ALONG THE WESTERN EDGE OF THE SITE. THE DRAINAGE CHANNEL WILL THEN ROUTE FLOWS SOUTH AND WEST TO A NEW RETENTION POND LOCATED AT THE SOUTHWEST CORNER OF THE SITE AREA. THE DRAINAGE CHANNEL WILL ENTER THE RETENTION POND THROUGH A WIRE ENCLOSED RIP RAP RUNDOWN. AN EMERGENCY WIRE ENCLOSED RIP RAP SPILLWAY WILL BE LOCATED ON THE NORTH EDGE OF THE RETENTION POND. THE PROPOSED LAND TREATMENTS AND PROPOSED DRAINAGE BASINS FOR THE SITE ARE PROVIDED IN THE DRAINAGE DATA TABLES ON THIS

STORM WATER ROUTING

STORMWATER FLOWS WILL BE ROUTED TO THE NORTHWEST CORNER OF THE SITE TO A DRAINAGE CHANNEL. THE DRAINAGE CHANNEL WILL BE LOCATED ALONG THE WEST EDGE OF THE MAINTENANCE ROAD WHICH RUNS NORTH-SOUTH ALONG THE WESTERN EDGE OF THE SITE. THE DRAINAGE CHANNEL WILL THEN ROUTE FLOWS SOUTH AND WEST TO A NEW RETENTION POND LOCATED AT THE SOUTHWEST CORNER OF THE SITE AREA. THE DRAINAGE CHANNEL WILL ENTER THE RETENTION POND THROUGH A WIRE ENCLOSED RIP RAP RUNDOWN. THE RETENTION POND 10-DAY WILL PROVIDE 100% CONTAINMENT OF THE 100 YEAR-24-HOUR STORM. HOWEVER, AN EMERGENCY WIRE ENCLOSED RIP RAP SPILLWAY WILL BE LOCATED ON THE NORTH EDGE OF THE RETENTION POND AS A SAFETY MEASURE. IF THE SITE STORMWATER FLOWS WILL SPILL OVER THE CREST OF THE EMERGENCY SPILLWAY SOUTHERN AND FOLLOW AN EXISTING DRAINAGE SWALF LOCATED ALONG THE ENERGY SPILLWAY OF THE NEW RETENTION POND AND EVENTUALLY TO THE EXISTING OUTFALL TO THE

AF THE SOUTHWEST CORNER OF THE SITE.



VICINITY MAP

ZONE ATLAS MAP D-17-Z

OFFSITE FLOWS

THE EASTERN AND SOUTHERN EDGES OF THE PROJECT SITE HAVE EXISTING BERMS ALONG THEIR ENTIRE LENGTHS. THEREFORE, THE PROJECT SITE DOES NOT RECEIVE ANY SIGNIFICANT OFF-SITE FLOWS.

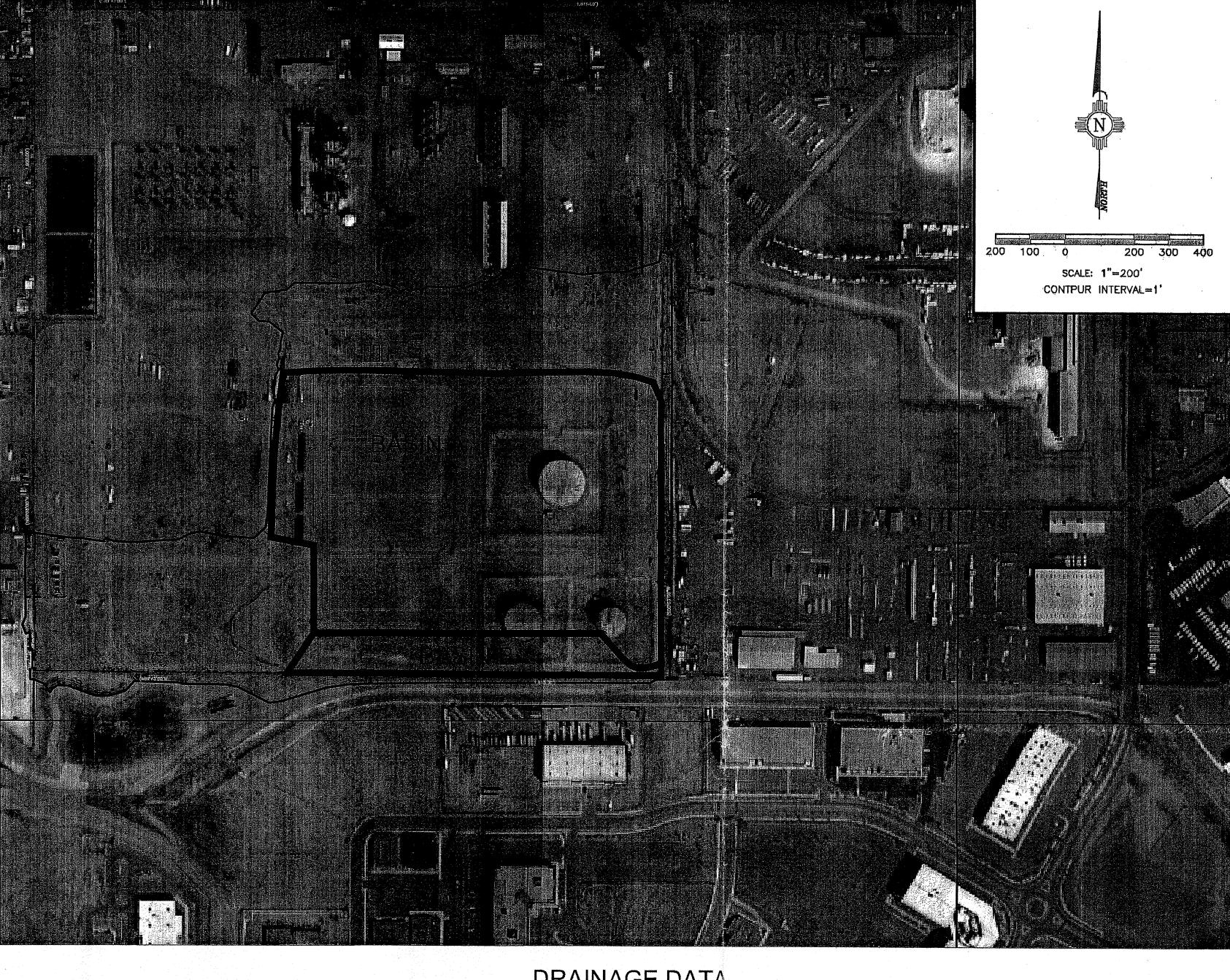
LEGAL DESCRIPTION

PORTION OF P.N.M. REEVES SOLAR SITE

CONCLUSION

THE PROPOSED SOLAR FIELD WILL INCREASE STORMWATER FLOWS FROM THE SITE. THE DRAINAGE CHANNEL THAT WILL BE CONSTRUCTED WILL SAFELY CONVEY A 100 YEAR-24 HOUR STORM. THE RETENTION POND THAT WILL BE CONSTRUCTED WILL PROVIDE 100% CONTAINMENT OF THE 100 YEAR-24 HOUR STORM. AN EMERGENCY, WIRE-ENCLOSED, RIP RAP SPILLWAY WILL BE LOCATED ON THE NORTH EDGE OF THE RETENTION POND AS A SAFETY MEASURE. IF THE SITE SHOULD RECEIVE A STORM THAT EXCEEDS THE 100 YEAR 24-HOUR STORM VOLUME. STORMWATER FLOWS WILL SPILL OVER THE CREST OF THE EMERGENCY SPILLWAY AND FOLLOW AN EXISTING DRAINAGE SWALE LOCATED ALONG THE NORTHERN EDGE OF THE NEW RETENTION POND. THE EXCESS STORMWATER FLOW WILL BE ROUTED OFF-SITE TO THE EXISTING OUTFALL LOCATION.

10-DAY



DRAINAGE DATA

									· C	
<u>Precipitat</u>	ion Zone 2 -	100-year S	torm	P(360) =	2.35	in	P(1440) =	2.75	in	
	Basin		and Treatn	nent Factor	S					
Basin	Area	Α	В	С	D	Ew	V(100-6)	V(100-24)	Q(100)	V(10-day
	(Ac)	2 . 1	(Acres)		(in)	(af)	(af)	(cfs)	(af)
Existing (Conditions	·								
Α	18.58	0.00	0.00	18.58	0.00	1.13	1.750	1.750	58.34	1.75
В	2.48	0.00	0.00	2.48	0.00	1.13	0.234	0.234	7.79	0.23
Total	21.06							1.98	66.13	1.98
Proposed	l Conditions					·				
A	18.58	0.00	0.00	12.58	6.00	1.45	2.245	2.445	67.70	3.04
В	2.48	0.00	0.00	2.48	0.00	2.09	0.432	0.432	7.79	0.43
Total	21.06							2.88	75.49	3.48

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Precipita	tion Zone 2 -	10-year St	orm	P(360) =	1.57	in	P(1440) =	1.84	in
	Basin		and Treatr	nent Factor	S				
Basin	Area	Α	В	С	D ,	Ew	V(10-6)	V(10-24)	Q(10)
	(Ac)		(Acres)		(in)	(af)	(af)	(cfs)
Existing	Conditions								:
Α	18.58	0.00	0.00	18.58	0.00	0.52	0.805	0.805	31.77
B	2.48	0.00	0.00	2.48	0.00	0.52	0.107	0.107	4.24
Total	21.06								36.01
Propose	d Conditions								
Α	18.58	0.00	0.00	12.58	6.00	0.78	1.215	1.349	40.35
В	2.48	0.00	0.00	2.48	0.00	0.52	0.107	0.107	4.24
Total	21.06				-			Section 2	44.59
							and the second s	<u>1</u> 395cc/77 t	433450 kg 1557 m

DRAINAGE CERTIFICATION

I, VERLYN A. MILLER, NMPE 14507, OF THE FIRM MILLER ENGINEERING CONSULTANTS, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLINANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED CONSTRUCTION DRAWINGS DATED 11/19/2010. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY THE CONTRACTOR SPARLING CONSTRUCTION CO. INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 1/12/2016 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE AS BUILTS PROVIDED IS REPRESENTATIVE OF ACUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR THE CITY OF

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE CONSTRUCTION DRAWINGS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



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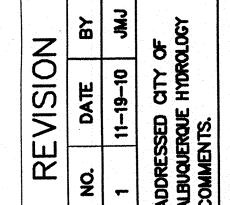
FLOOD ZONE, VICINITY, DRAINAGE BASINS

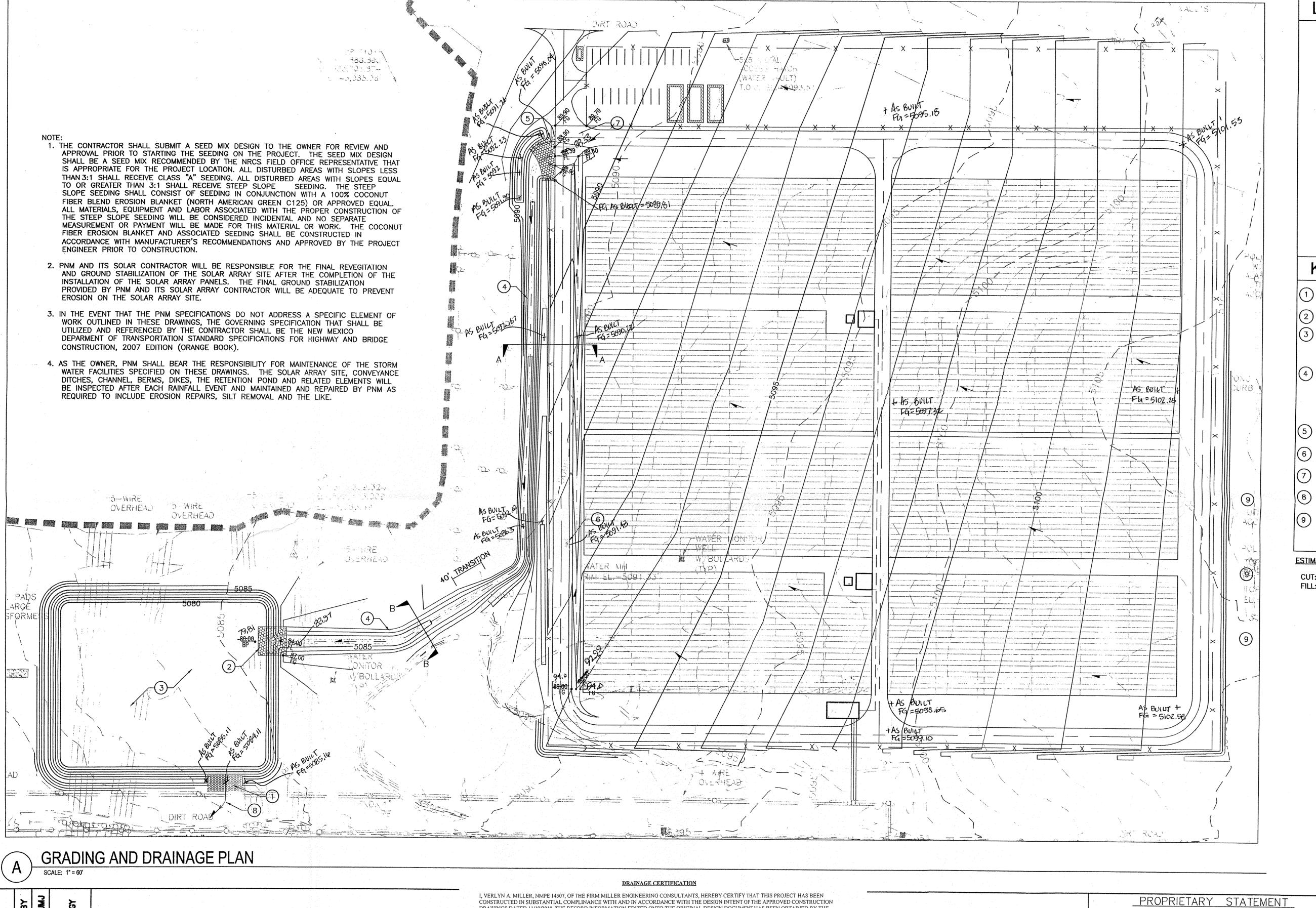
JAN % 3 2011

HYDROLOGY

HYDROLOGIC CALCULATIONS PNM REEVES SOLAR PARK

CT TO	DR: JAL	TR:	DATE: 11/03/10
	CKD: VAM	OK:	SCALE: 1"=200'
	APP:	ACAD FILE:	USS-14902-1
	REV. NO. 1		





LEGEND PROPOSED SPOT ELEVATIONS FLOW LINE **INVERT** FINISHED GRADE PROPOSED FLOW ARROW PROPOSED RIP RAP PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR — — — 5895 — — — EXISTING MAJOR CONTOUR **EXISTING MINOR CONTOUR**

KEY NOTES

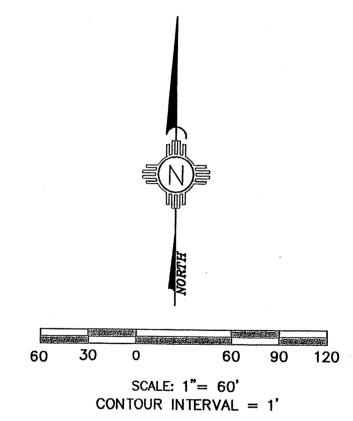
POND CREST = 5085.00

- (1) NEW EMERGENCY RIP RAP SPILLWAY. SEE DETAIL SHEET USS-14902-3.
- (2) NEW RIP RAP RUNDOWN. SEE DETAIL SHEET USS-14902-3.
- 3 NEW RETENTION POND. SEE DETAIL SHEET USS-14902-3. POND INV. = 5080.00POND OVERFLOW = 5084.00
- (4) NEW TRAPEZOIDAL CHANNEL. SEE DETAIL SHEET USS-14902-3 FOR SECTION DETAIL 'A-A' AND SECTION DETAIL 'B-B'. BOTTOM WIDTH = 5.00TOP WIDTH = VARIES SIDE SLOPES = VARIES
- WATER SURFACE ELEVATION (100 YR., 24 HR.) = 5083.50 (5) NEW RIP RAP PAD. REFERENCE THIS SHEET FOR SHAPE AND DIMENSIONS. SEE DETAIL SHEET USS-14902-3.
- (6) REMOVE AND DISPOSE OF EXISTING VAULT AND LIGHT FIXTURE. TERMINATE AND ABANDON IN PLACE EXISTING CONDUITS.
- (7) REMOVE AND DISPOSE OF EXISTING VAULT. TERMINATE AND ABANDON IN PLACE EXISTING CONDUITS.
- (8) GRADE SWALE TO DAYLIGHT SOUTH TO AMAFCA'S NORTH PINO ARROYO EXISTING POND FACILTY.
- (9) CONTRACTOR SHALL PLACE EXCESS EARTHWORK MATERIAL ALONG EAST FENCELINE TO IMPROVE EXISTING DIVERSION BERM CONSULT WITH PROJECT MANAGER AND PROJECT ENGINEER PRIOR TO CONSTRUCTION.

ESTIMATED EARTHWORK

CUT: 29,500 C.Y.

FILL: 27,500 C.Y. (WITH 25% SHRINK/SWELL FACTOR)





DRAWINGS DATED 11/19/2010. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY THE CONTRACTOR SPARLING CONSTRUCTION CO. INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 1/12/2014 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE AS BUILTS PROVIDED IS REPRESENTATIVE OF ACUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR THE CITY OF

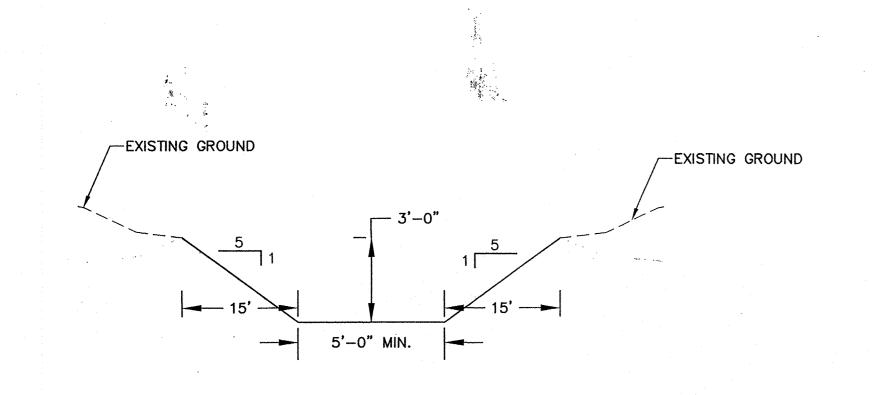
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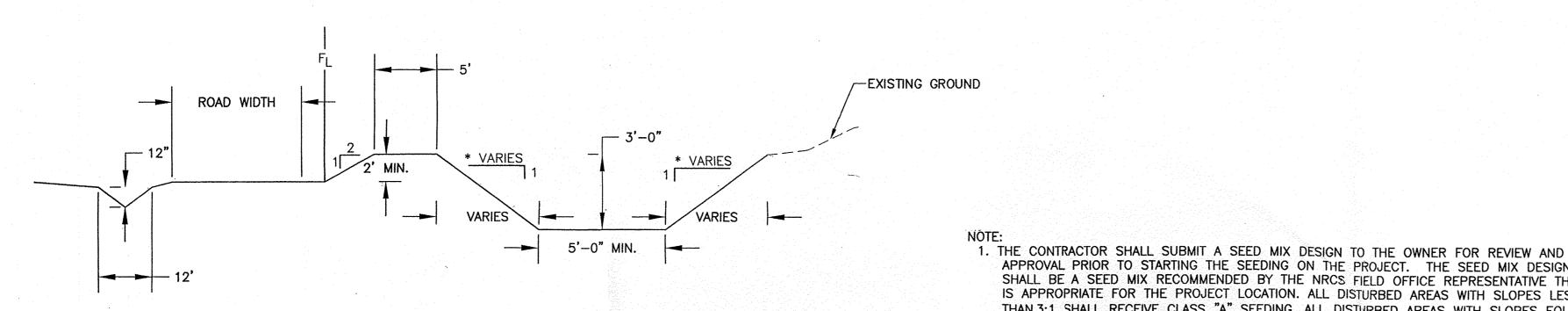
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GRADING AND DRAINAGE PLAN

.33				
o	DR:	JAL	TR:	DATE: 11/03/10
	CKD:	VAM	OK:	SCALE: 1"=60'
	APP:			USS-14902-2
	REV.	NO. 1		



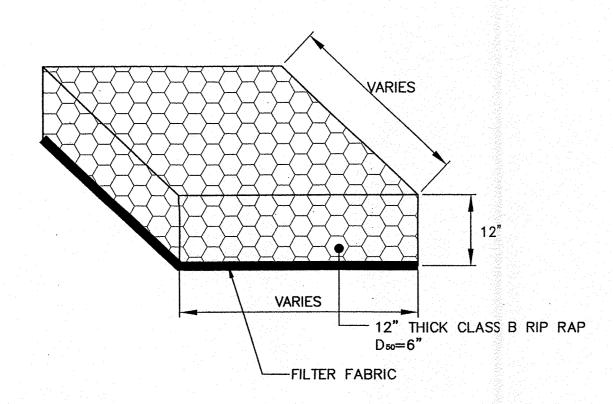
SECTION B-B



SECTION A-A

* 2:1 MAXIMUM ON ALL SLOPES

TRAPEZOIDAL CHANNEL SECTION DETAILS



RIP RAP PAD DETAIL

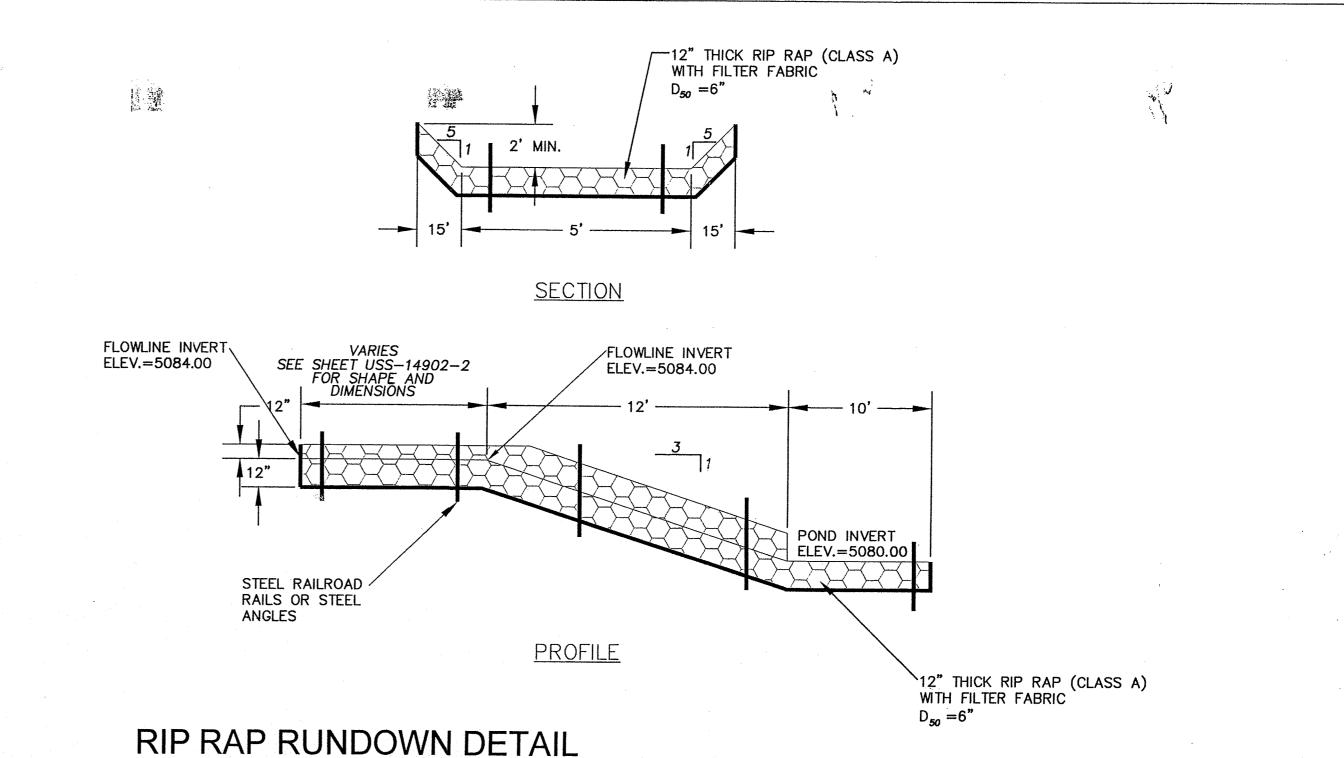
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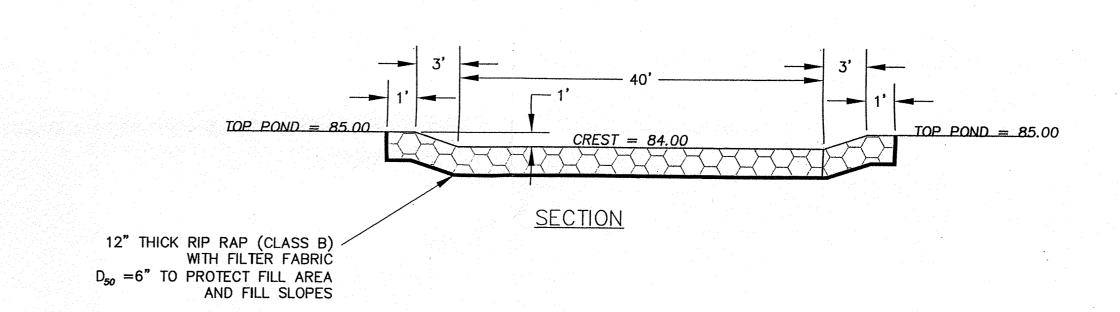
DRAINAGE CERTIFICATION

I, VERLYN A. MILLER, NMPE 14507, OF THE FIRM MILLER ENGINEERING CONSULTANTS, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLINANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED CONSTRUCTION DRAWINGS DATED 11/19/2010. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY THE CONTRACTOR SPARLING CONSTRUCTION CO. INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 1/12/2010 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE AS BUILTS PROVIDED IS REPRESENTATIVE OF ACUAL SITE CONDITIONS AND IS TRUE AND

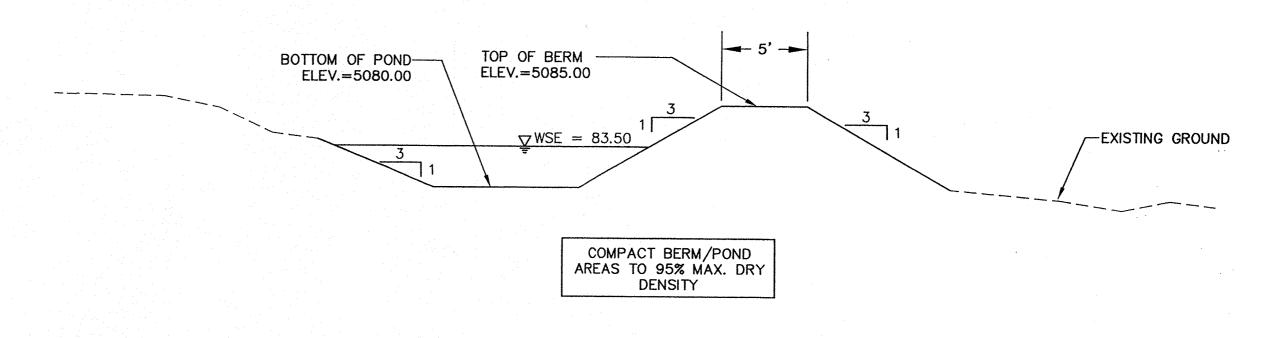
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VERLYN A. MILLER





EMERGENCY RIP RAP SPILLWAY DETAIL



TYPICAL POND SECTION DETAIL



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OTHERWISE USED OR DISCLOSED TO ANY OTHER PARTY WITHOUT FIRST OBTAINING THE

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CONDITION THAT IT WILL BE HELD IN CONFIDENCE BY THE RECIPIENT, THAT IT IS SUBJECT
TO RETURN UPON DEMAND, AND THAT IT WILL NOT BE USED IN ANY WAY DETRIMENTAL TO

DAILY

DEATH.

MISCELLANEOUS DETAILS

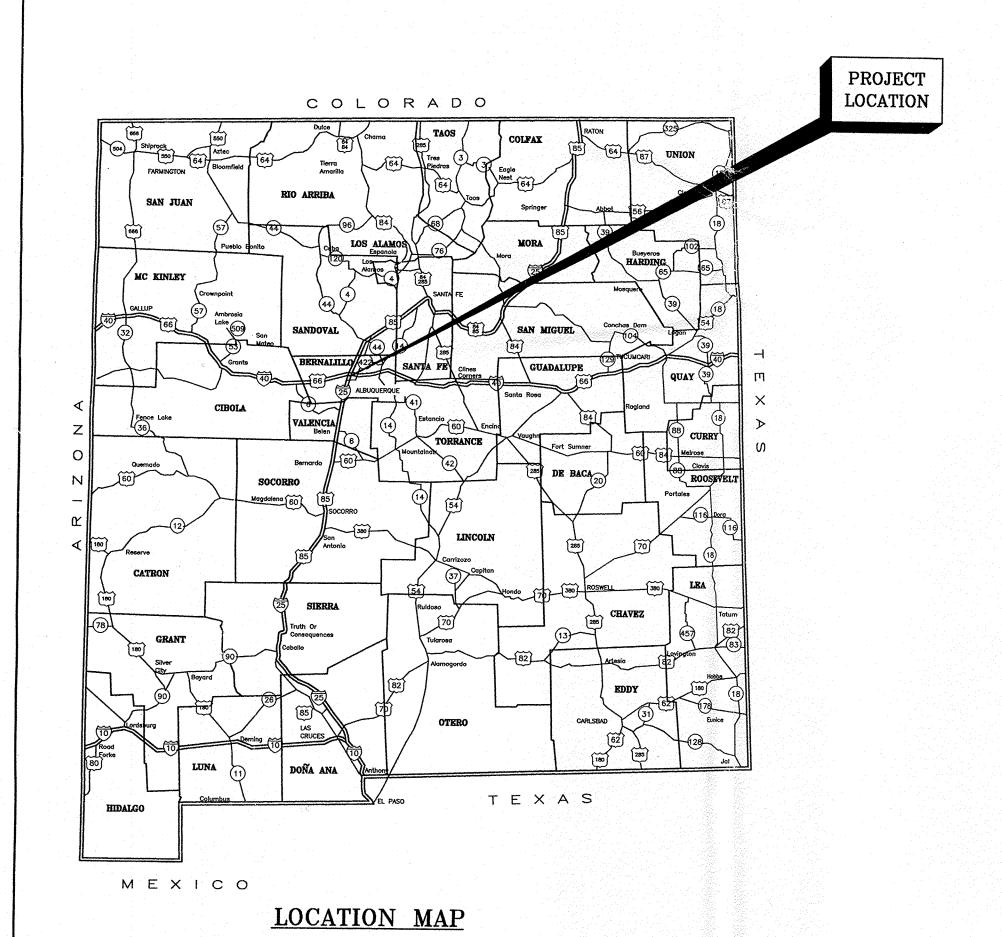
DATE: 11/03/10 SCALE: NO SCALE CKD: VAM ACAD FILE: USS-14902-3 REV. NO. 1

SHALL BE A SEED MIX RECOMMENDED BY THE NRCS FIELD OFFICE REPRESENTATIVE THAT IS APPROPRIATE FOR THE PROJECT LOCATION. ALL DISTURBED AREAS WITH SLOPES LESS THAN 3:1 SHALL RECEIVE CLASS "A" SEEDING. ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 3:1 SHALL RECEIVE STEEP SLOPE SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL. ALL MATERIALS, EQUIPMENT AND LABOR ASSOCIATED WITH THE PROPER CONSTRUCTION OF THE STEEP SLOPE SEEDING WILL BE CONSIDERED INCIDENTAL AND NO SEPARATE MEASURENENT OR PAYMENT WILL BE MADE FOR THIS MATERIAL OR WORK. THE COCONUT FIBER EROSION BLANKET AND ASSOCIATED SEEDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.

APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN

- 2. PNM AND ITS SOLAR CONTRACTOR WILL BE RESPONSIBLE FOR THE FINAL REVEGITATION AND GROUND STABILIZATION OF THE SOLAR ARRAY SITE AFTER THE COMPLETION OF THE INSTALLATION OF THE SOLAR ARRAY PANELS. THE FINAL GROUND STABILIZATION PROVIDED BY PNM AND ITS SOLAR ARRAY CONTRACTOR WILL BE ADEQUATE TO PREVENT EROSION ON THE SOLAR ARRAY SITE.
- 3. IN THE EVENT THAT THE PNM SPECIFICATIONS DO NOT ADDRESS A SPECIFIC ELEMENT OF WORK OUTLINED IN THESE DRAWINGS, THE GOVERNING SPECIFICATION THAT SHALL BE UTILIZED AND REFERENCED BY THE CONTRACTOR SHALL BE THE NEW MEXICO DEPARMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION (ORANGE BOOK).
- 4. AS THE OWNER, PNM SHALL BEAR THE RESPONSIBILITY FOR MAINTENANCE OF THE STORM WATER FACILITIES SPECIFIED ON THESE DRAWINGS. THE SOLAR ARRAY SITE, CONVEYANCE DITCHES, CHANNEL, BERMS, DIKES, THE RETENTION POND AND RELATED ELEMENTS WILL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED AND REPAIRED BY PNM AS REQUIRED TO INCLUDE EROSION REPAIRS, SILT REMOVAL AND THE LIKE.
- 5. COMPACT ALL CHANNELIZED AREAS, BERMS, AND DIKES TO 95% MAX. DRY DENSITY.

PUBLIC SERVICE COMPANY OF NEW MEXICO PLANS FOR MASS GRADING AND DRAINAGE PLAN FOR REEVES SOLAR ARRAY PROJECT



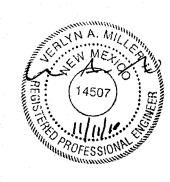
NOVEMBER 11, 2010

ENGINEERING CONSULTANTS, AND WERE CREATED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. THESE IDEAS, DESIGNS, ARRANGEMENTS, OR PLANS SHALL NOT BE USED BY ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF MILLER ENGINEERING CONSULTANTS.

THESE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

CERTIFICATION:

I, VERLYN A. MILLER, REGISTERED PROFESSIONAL ENGINEER NO. 14507 HEREBY CERTIFY THAT THE FOLLOWING PLANS AND DESIGNS WERE MADE UNDER MY SUPERVISION AND DIRECTION AND THAT SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



NOV I 2 2010 HYDROLOGY

NEW MEXICO PROFESSIONAL ENGINEER

P.E. 14507



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PIM PUBLIC SERVICE COMPANY COVER SHEET DATE: 11/03/10 CKD: VAM SCALE: NO SCALE ACAD FILE: USS-14902

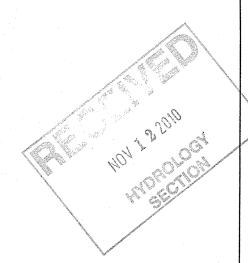
GENERAL NOTES:

- 1. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS SHOWN ON PLANS. DISTURBANCE TO PRIVATE PROPERTIES SHALL BE KEPT TO A MINIMUM. ANY COSTS ASSOCIATED WITH THE REPAIR TO PUBLIC OR PRIVATE PROPERTIES, CAUSED BY CONSTRUCTION ACTIVITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL DEVELOP THE TRAFFIC CONTROL PLAN AND SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES AND CONSTRUCTION SIGNING IN ACCORDANCE WITH THE "MUTCD" (LATEST EDITION) DURING THE CONSTRUCTION PERIOD (WORKING AND NON-WORKING HOURS). ANY NECESSARY DEVIATION FROM THE "MUTCD" SHALL HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER OR CONSTRUCTION INSPECTOR. THE CONTRACTOR SHALL SUBMIT A COPY OF THE PROPOSED TRAFFIC CONTROL PLAN TO THE ENGINEER AND THE CITY PROJECT COORDINATOR AT THE PRE-CONSTRUCTION MEETING. THIS PLAN SHALL SATISFY THE CITY OF ALBUQUERQUE REQUIREMENTS FOR PUBLIC SAFETY AND TRAVELING PUBLIC AS WELL AS THE REQUIREMENTS OF "MUTCD" AND SHALL BE REVISED AS NECESSARY TO MEET THE REQUIREMENTS DURING THE CONSTRUCTION PERIOD. THIS PLAN SHALL INCLUDE AN ADEQUATE NUMBER OF TRAFFIC CONTROL SIGNS & DEVICES AS DEEMED NECESSARY BY THE CITY PROJECT COORDINATOR. PAYMENT FOR DEVELOPING THE TRAFFIC CONTROL PLAN AND FOR ALL TRAFFIC CONTROL SIGNS AND DEVICES WILL BE MADE UNDER THE TRAFFIC CONTROL PLAN ITEM AND NO ADDITIONAL PAYMENT WILL BE MADE. THE SECTIONS OF ROADWAY WHICH ARE OPEN TO TRAFFIC SHALL BE KEPT IN GOOD RIDING CONDITION AND CLEAR OF HAZARDS TO TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND ACCESS TO RESIDENCES AND OTHER TURNOUTS SHALL BE OF PRIMARY CONSIDERATION. THE TRAFFIC CONTROL MANAGEMENT REQUIRED WILL BE INCLUDED IN THE PAYMENT FOR THE TRAFFIC CONTROL PLAN ITEM AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE.
- 3. ANY EXCESS MATERIAL (UNCLASSIFIED EXCAVATION) THAT CAN NOT BE USED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE HAULED TO A LOCATION ON THE PROJECT SITE AS DIRECTED BY PNM AND PNM REPRESENTATIVES. THE CONTRACTOR SHALL RECEIVE WRITTEN CONCURRENCE FROM THE CONSTRUCTION COORDINATOR AND INSPECTOR ON THE LOCATION OF THIS SITE. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE UNCLASSIFIED EXCAVATION ITEM AND NO ADDITIONAL PAYMENT WILL BE MADE.
- 4. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE CONTRACTOR MUST CONTACT THE UTILITY LINE LOCATING SERVICE (811) TWO WORKING DAYS PRIOR TO ANY EXCAVATION FOR THE LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS BEFORE COMMENCING WORK IN THE AREAS NEAR UNDERGROUND UTILITY LINES. CONTRACTOR SHALL NOT INTERFERE WITH UTILITY LINE OPERATION AND SHALL COORDINATE ALL WORK AFFECTING EXISTING UTILITIES WITH THE APPROPRIATE AUTHORITY FOR EACH UTILITY, AND THE CONSTRUCTION INSPECTOR SHALL BE PROMPTLY NOTIFIED OF ANY PROBLEMS OR CONFLICTS ENCOUNTERED.
- 5. DURING THE CONSTRUCTION OF THIS PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY THE UTILITY OWNERS (COUNTY AND/OR PRIVATELY OWNED). THE CONTRACTOR SHALL COORDINATE AND ADVISE THE UTILITY OWNERS, ALLOWING ENOUGH TIME SO THAT THE REQUIRED UTILITY ADJUSTMENTS DO NOT IMPEDE THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCE FROM SAID UTILITY APPURTENANCES.
- 6. THE USE OF HEAVY ROLLING EQUIPMENT (GREATER THAT 35 TONS STATIC) AND/OR VIBRATORY ROLLERS TO OBTAIN THE REQUIRED DENSITIES IN EMBANKMENT, EMBANKMENT FOUNDATION, MISCELLANEOUS FILLS, SUBGRADE & PAVEMENT WILL NOT BE PERMITTED IN URBAN OR OTHER AREAS WHERE THE USE OF SUCH EQUIPMENT WOULD DAMAGE UNREINFORCED MASONRY STRUCTURES, UNDERGROUND UTILITY FACILITIES OR OTHER PERMANENT INSTALLATION.
- 7. ALL AGGREGATES AND SUITABLE MATERIAL MAY BE OBTAINED FROM COMMERCIAL SOURCES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING A SUITABLE SOURCE MEETING ALL REQUIREMENTS OF THIS CONTRACT.
- 8. THE CONTRACTORS SHALL NOT EXCEED LEGAL LOADS ON EXISTING PAVED ROADWAYS.
- 9. TOPOGRAPHIC DATA, BENCHMARKS, REFERENCE POINTS, P.I.'S, STRUCTURE TIES, AND ALL OTHER MISCELLANEOUS SURVEY INFORMATION WAS OBTAINED FROM PREVIOUS FIELD SURVEYS. IT IS ENTIRELY POSSIBLE THAT THESE POINTS MAY NO LONGER EXIST IN THE FIELD. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO RE-ESTABLISH ANY MISSING BENCH MARKS. REFERENCE POINTS. OR P.I.'S REQUIRED FOR CONSTRUCTION OF THIS PROJECT AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY BETWEEN ADJACENT REFERENCE POINTS, BENCH MARKS, AND P.I.'S PRIOR TO THEIR USE IN CONSTRUCTING THIS PROJECT TO ASSURE THE INTEGRITY OF EACH POINT.
- 10. ALL EXISTING STREET SIGNS WILL BE REMOVED AS NECESSARY TO PERFORM CONSTRUCTION ACTIVITIES AND REPLACED IN A LOCATION TO BE DETERMINED BY THE PROJECT COORDINATOR. NO PAYMENT OR MEASUREMENT WILL BE MADE FOR THIS WORK.
- 11. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH PNM SPECIFICATIONS, AND SHALL ALSO BE IN COMPLIANCE WITH ALL CITY OF ALBUQUERQUE, STATE, AND FEDERAL REGULATIONS.
- 12. DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR WILL BE RESPONSIBLE FOR BUILDING, MANAGING, AND IMPLEMENTING THE TEMPORARY DRAINAGE MEASURES SPECIFIED IN THE SWPPP DOCUMENT PROVIDED BY PNM. ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY OR IMPROVEMENTS CONSTRUCTED BY THE CONTRACTOR RESULTING FROM STORM WATER FLOWS IN THE PROJECT VICINITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 13. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS MATERIAL, DEBRIS, AND ANY STRUCTURES AND/OR OBSTRUCTIONS REMOVED AT AN ENVIRONMENTALLY SUITABLE SITE AND SHALL COORDINATE WITH PNM TO DECIDE THE LOCATION. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE UNCLASSIFIED EXCAVATION ITEM.

- 14. FILL/BACK—FILL SHALL BE PLACED IN EIGHT INCH LIFTS MAXIMUM AND COMPACTED TO 90 PERCENT OPTIMUM DENSITY AS PER ASTM D-1577 AND 95 PERCENT UNDER STRUCTURES
- 15. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF
- 16. AS OF MARCH 10, 2003, THE USEPA REQUIRES NPDES PERMIT COVERAGE FOR STORM WATER DISCHARGES FROM CONSTRUCTION PROJECTS (COMMON PLANS OF DEVELOPMENT) THAT WILL RESULT IN THE DISTURBANCE (OR RE-DISTURBANCE) OF ONE OR MORE ACRES, INCLUDING EXPANSIONS OF TOTAL LAND AREA. THE DEVELOPER SHOULD BE MADE AWARE THAT THE USEPA REQUIRES THAT ALL "OPERATORS" (SEE FEDERAL REGISTER/VOL. 63, NO. 128 / MONDAY, JULY 6, 1999 PG 36509) OBTAIN NPDES PERMIT COVERAGE FOR CONSTRUCTION PROJECTS. GENERALLY THIS MEANS THAT AT LEAST TWO PARTIES WILL REQUIRE PERMIT COVERAGE. THE OWNER/DEVELOPER OF THIS CONSTRUCTION PROJECT WHO HAS OPERATIONAL CONTROL OVER THE PROJECT SPECIFICATIONS, THE GENERAL CONTRACTOR WHO HAS DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE SITE, WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE STORM WATER POLLUTION PLAN AND OTHER CONDITIONS, AND POSSIBLY OTHER "OPERATORS" THAT WILL REQUIRE APPROPRIATE NPDES PERMIT COVERAGE FOR THIS PROJECT. PNM WILL BE SOLELY RESPONSIBLE FOR DEVELOPING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT FOR THE PROJECT AND PROVIDING THE DOCUMENT FOR THE PROJECT. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR BUILDING, MANAGING AND MAINTAINING ALL BEST MANAGEMENT PRACTICES (BPM'S) AND TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE SWPPP DOCUMENT.
- 17. REMOVAL AND REINSTALLATION OF EXISTING FENCING WILL BE PAID FOR UNDER THE UNCLASSIFIED EXCAVATION ITEM AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.
- 18. ALL GEOTEXTILE FABRIC UNDERNEATH THE CLASS A RIP RAP SHALL BE CONSIDERED INCIDENTAL TO THE RIPRAP AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.
- 19. HORIZONTAL AND VERTICAL CONTROL IS BASED ON A STANDARD CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4 INCH ALUMINUM DISC SET FLUSH IN THE CONCRETE BRIDGE ABUTMENT STAMPED "13-D16 1991" LOCATED APPROXIMATELY 1.24 MILES WEST OF THE INTERSECTION O I-25 AND PASEO DEL NORTE TO THE NORTH DIVERSION CHANNEL AND THE STATION IS IN THE SOUTHWEST QUADRANT OF THE BRIDGE ABUTMENT WITHIN ALBUQUERQUE, NEW MEXICO. ELEVATION = 5073.47 FEET (NAVD 1988 VERTICAL DATUM). REFERENCE TOPOGRAPHIC SURVEY PREPARED BY TERRA LAND SURVEYS, LLC, DATED OCTOBER 14, 2010 FOR TEMPORARY BENCH MARK LOCATION AND COORDINATES.
- 20. CONTRACTOR SHALL OBTAIN A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO ANY GRADING OR
- 21. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT THE LINE LOCATING SERVICE (811), FOR LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND THE SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 22. ALL EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS HAS BEEN PROVIDED BY TERRA LAND SURVEYS, LLC. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- 23. THE SUBJECT PROPERTY APPEARS TO LIE WITHIN "ZONE X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM. FLOOD INSURANCE RATE MAP 35001C0136G. MAP REVISED SEPTEMBER 26, 2008.
- 24. THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY THE NRCS FIELD OFFICE REPRESENTATIVE THAT IS APPROPRIATE FOR THE PROJECT LOCATION. ALL DISTURBED AREAS WITH SLOPES LESS THAN 3:1 SHALL RECEIVE CLASS "A" SEEDING. ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 3:1 SHALL RECEIVE STEEP SLOPE SEEDING. THE STEEP SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL. ALL MATERIALS. EQUIPMENT AND LABOR ASSOCIATED WITH THE PROPER CONSTRUCTION OF THE STEEP SLOPE SEEDING WILL BE CONSIDERED INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS MATERIAL OR WORK. THE COCONUT FIBER EROSION BLANKET AND ASSOCIATED SEEDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.
- 25. PNM AND ITS SOLAR CONTRACTOR WILL BE RESPONSIBLE FOR THE FINAL REVEGITATION AND GROUND STABILIZATION OF THE SOLAR ARRAY SITE AFTER THE COMPLETION OF THE INSTALLATION OF THE SOLAR ARRAY PANELS. THE FINAL GROUND STABILIZATION PROVIDED BY PNM AND ITS SOLAR ARRAY CONTRACTOR WILL BE ADEQUATE TO PREVENT EROSION ON THE SOLAR ARRAY SITE.
- 26. IN THE EVENT THAT THE PNM SPECIFICATIONS DO NOT ADDRESS A SPECIFIC ELEMENT OF WORK OUTLINED IN THESE DRAWINGS. THE GOVERNING SPECIFICATION THAT SHALL BE UTILIZED AND REFERENCED BY THE CONTRACTOR SHALL BE THE NEW MEXICO DEPARMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION (ORANGE BOOK).
- 27. AS THE OWNER, PNM SHALL BEAR THE RESPONSIBILITY FOR MAINTENANCE OF THE STORM WATER FACILITIES SPECIFIED ON THESE DRAWINGS. THE SOLAR ARRAY SITE, CONVEYANCE DITCHES, CHANNEL, BERMS, DIKES, THE RETENTION POND AND RELATED ELEMENTS WILL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED AND REPAIRED BY PNM AS REQUIRED TO INCLUDE EROSION REPAIRS, SILT REMOVAL AND THE LIKE.

DRAWING INDEX:

SHEET NO.	SHEET TITLE
USS-14902-C USS-14902-0 USS-14902-1	GENERAL NOTES, DRAWING INDEX AND QUANTITIES SITE PLAN VICINITY MAP, FLOOD ZONE MAP, DRAINAGE BASINS, HYDROLOGY AND HYDROLOGIC CALCULATIONS
USS-14902-2 USS-14902-3	GRADING AND DRAINAGE PLAN MISCELLANEOUS DETAILS

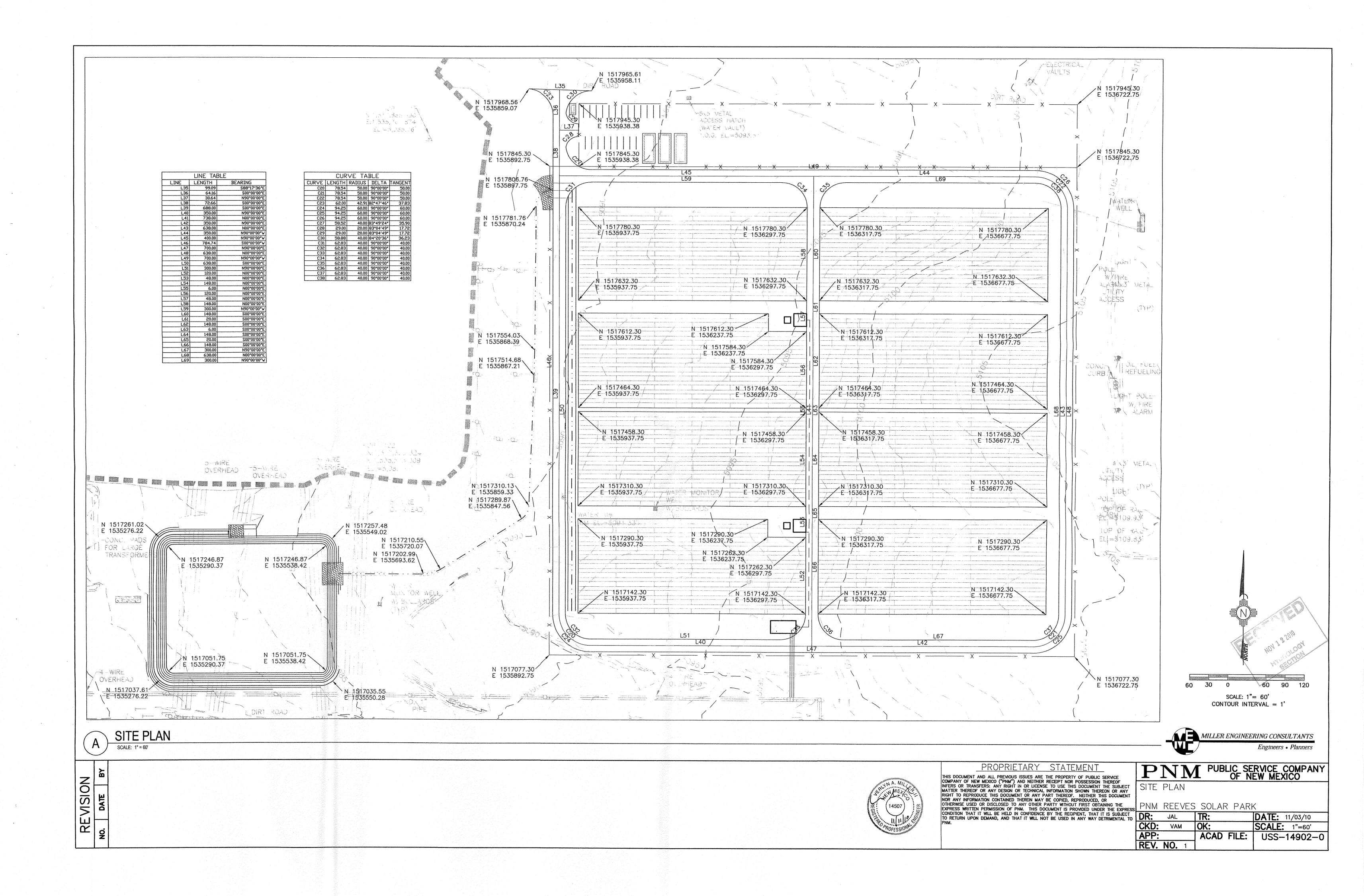


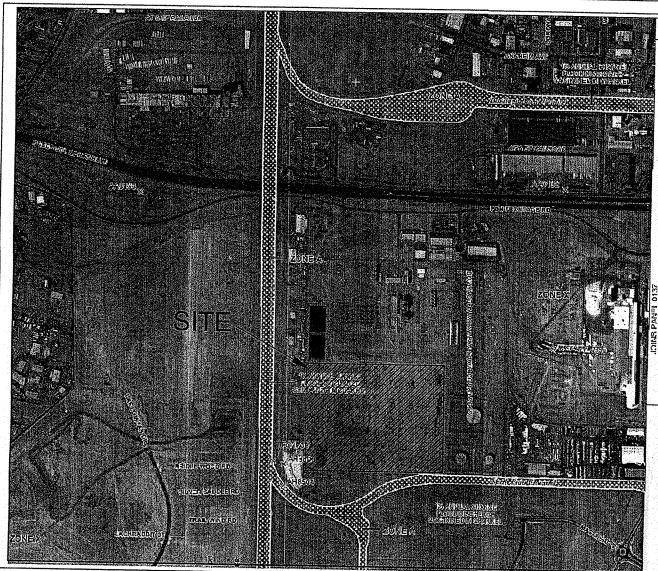


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	PIM PUBLIC SERVICE COMPANY OF NEW MEXICO
CT	GENERAL NOTES, QUANTITIES,
NT	GENERAL NOTES, QUANTITIES, DRAWING INDEX
DEGG	PNM REEVES SOLAR PARK

DR: JAL	TR:	DATE: 11/03/10
CKD: VAM	OK:	SCALE: NO SCALE
APP:	ACAD FILE:	USS-14902-C
REV. NO. 1		





FLOOD ZONE MAP FLOOD ZONE MAP 35001C0136G

EXISTING ON-SITE CONDITIONS

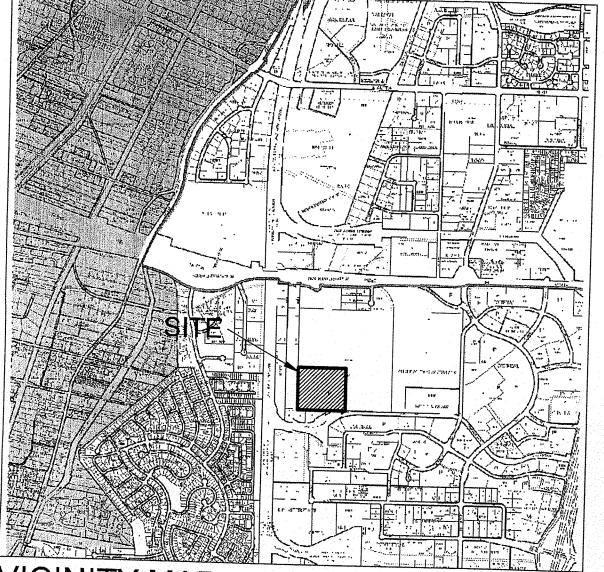
THE PROJECT SITE CONSISTS OF 30.60 ACRES (MORE OR LESS) AND IS CURRENTLY UNDEVELOPED AND CONSISTS OF BARE LAND THAT HAS BEEN RECENTLY CLEANED AND DISTURBED BY HUMAN ACTIVITY WITH SPARSE NATIVE VEGETATION. THE PROJECT SITE SLOPES TO THE WEST MODERATELY AT ABOUT 3%. THE EASTERN AND SOUTHERN EDGES OF THE PROJECT SITE HAVE BERMS ALONG THE ENTIRE LENGTHS, THEREFORE, THE PROJECT SITE DOES NOT RECEIVE ANY SIGNIFICANT OFF-SITE FLOWS. THE EXISTING LAND TREATMENTS AND EXISTING DRAINAGE BASINS FOR THE SITE ARE PROVIDED IN THE DRAINAGE DATA TABLES ON THIS SHEET.

PROPOSED DEVELOPMENT

THE PROPOSED DEVELOPMENT CONSISTS OF CONSTRUCTING A SOLAR PANEL ARRAY FOR THE PURPOSES OF GENERATING ELECTRIC POWER. THE SOLAR PANELS WILL BE LOCATED IN THE CENTER OF THE PROJECT AREA. AN UNIMPROVED MAINTENANCE ROAD WILL BE CONSTRUCTED AROUND THE SOLAR PANELS STORMWATER FLOWS WILL BE ROUTED TO THE NORTHWEST CORNER OF THE SITE TO A DRAINAGE CHANNEL. THE DRAINAGE CHANNEL WILL BE LOCATED ALONG THE WEST EDGE OF THE MAINTENANCE ROAD WHICH RUNS NORTH-SOUTH ALONG THE WESTERN EDGE OF THE SITE. THE DRAINAGE CHANNEL WILL THEN ROUTE FLOWS SOUTH AND WEST TO A NEW RETENTION POND LOCATED AT THE SOUTHWEST CORNER OF THE SITE AREA. THE DRAINAGE CHANNEL WILL ENTER THE RETENTION POND THROUGH A WIRE ENCLOSED RIP RAP RUNDOWN. AN EMERGENCY WIRE ENCLOSED RIP RAP SPILLWAY WILL BE LOCATED ON THE NORTH EDGE OF THE RETENTION POND. THE PROPOSED LAND TREATMENTS AND PROPOSED DRAINAGE BASINS FOR THE SITE ARE PROVIDED IN THE DRAINAGE DATA TABLES ON THIS

STORM WATER ROUTING

STORMWATER FLOWS WILL BE ROUTED TO THE NORTHWEST CORNER OF THE SITE TO A DRAINAGE CHANNEL. THE DRAINAGE CHANNEL WILL BE LOCATED ALONG THE WEST EDGE OF THE MAINTENANCE ROAD WHICH RUNS NORTH-SOUTH ALONG THE WESTERN EDGE OF THE SITE. THE DRAINAGE CHANNEL WILL THEN ROUTE FLOWS SOUTH AND WEST TO A NEW RETENTION POND LOCATED AT THE SOUTHWEST CORNER OF THE SITE AREA. THE DRAINAGE CHANNEL WILL ENTER THE RETENTION POND THROUGH A WIRE ENCLOSED RIP RAP RUNDOWN. THE RETENTION POND WILL PROVIDE 100% CONTAINMENT OF THE 100 YEAR-24 HOUR STORM. HOWEVER, AN EMERGENCY WIRE ENCLOSED RIP RAP SPILLWAY WILL BE LOCATED ON THE NORTH EDGE OF THE RETENTION POND AS A SAFETY MEASURE. IF THE SITE SHOULD RECEIVE A STORM THAT EXCEEDS THE 100 YEAR-24 HOUR STORM, STORMWATER FLOWS WILL SPILL OVER THE CREST OF THE EMERGENCY SPILLWAY AND FOLLOW AN EXISTING DRAINAGE SWALE LOCATED ALONG THE NORTHERN EDGE OF THE NEW RETENTION POND AND EVENTUALLY TO THE EXISTING OUTFALL TO THE



VICINITY MAP

OFFSITE FLOWS

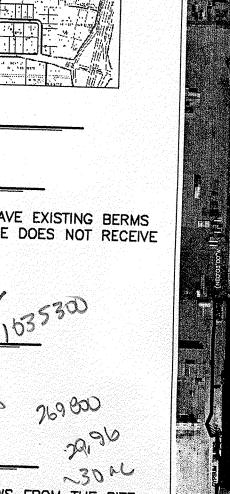
THE EASTERN AND SOUTHERN EDGES OF THE PROJECT SITE HAVE EXISTING BERMS ALONG THEIR ENTIRE LENGTHS. THEREFORE, THE PROJECT SITE DOES NOT RECEIVE ANY SIGNIFICANT OFF-SITE FLOWS.

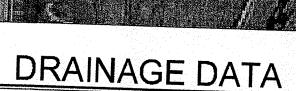
LEGAL DESCRIPTION

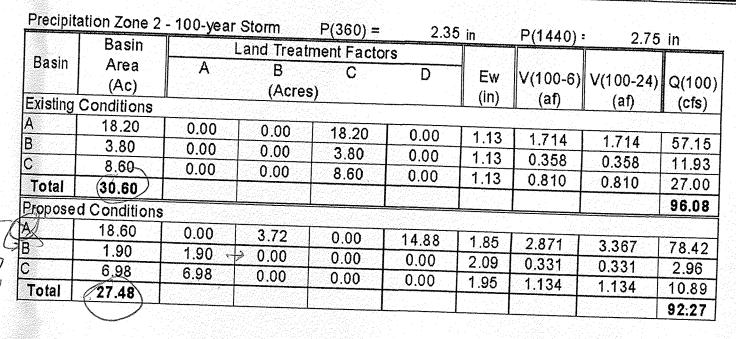
PORTION OF P.N.M. REEVES SOLAR SITE

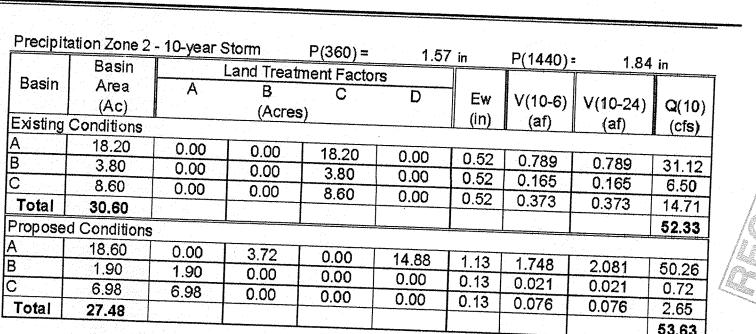
CONCLUSION

THE PROPOSED SOLAR FIELD WILL INCREASE STORMWATER FLOWS FROM THE SITE.
THE DRAINAGE CHANNEL THAT WILL BE CONSTRUCTED WILL SAFELY CONVEY A 100
YEAR-24 HOUR STORM. THE RETENTION POND THAT WILL BE CONSTRUCTED WILL PROVIDE 100% CONTAINMENT OF THE 100 YEAR-24 HOUR STORM. AN EMERGENCY, WIRE-ENCLOSED, RIP RAP SPILLWAY WILL BE LOCATED ON THE NORTH EDGE OF THE RETENTION POND AS A SAFETY MEASURE. IF THE SITE SHOULD RECEIVE A STORM THAT EXCEEDS THE 100 YEAR-24 HOUR STORM VOLUME, STORMWATER FLOWS WILL SPILL OVER THE CREST OF THE EMERGENCY SPILLWAY AND FOLLOW AN EXISTING DRAINAGE SWALE LOCATED ALONG THE NORTHERN EDGE OF THE NEW RETENTION POND. THE EXCESS STORMWATER FLOW WILL BE ROUTED OFF-SITE TO THE EXISTING OUTFALL LOCATION.











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FLOOD ZONE, VICINITY, DRAINAGE BASINS HYDROLOGIC CALCULATIONS

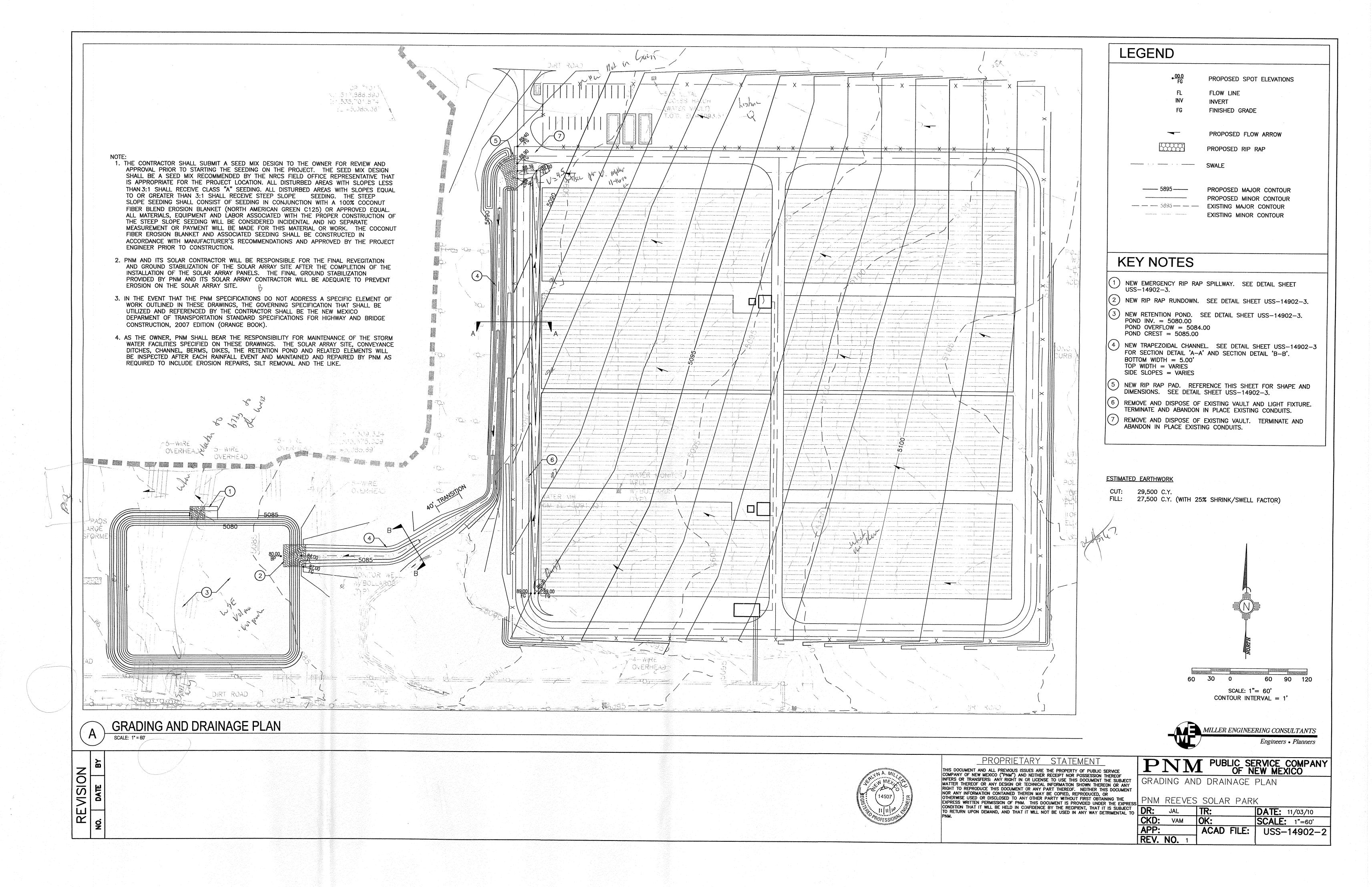
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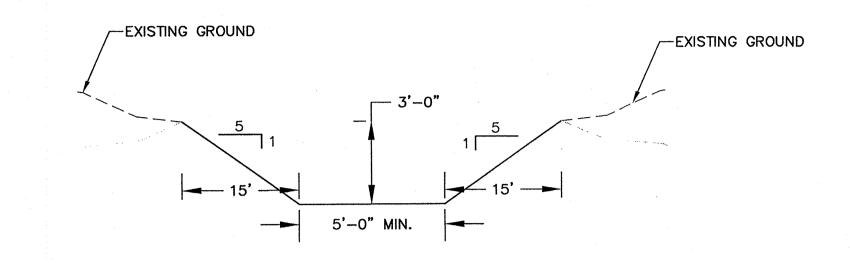
SCALE: 1"=200' CONTPUR INTERVAL=1'

PNM REEVES SOLAR PARK JAL DATE: 11/03/10 CKD: VAM SCALE: 1"=200' ACAD FILE: USS-14902-1 REV. NO. 1

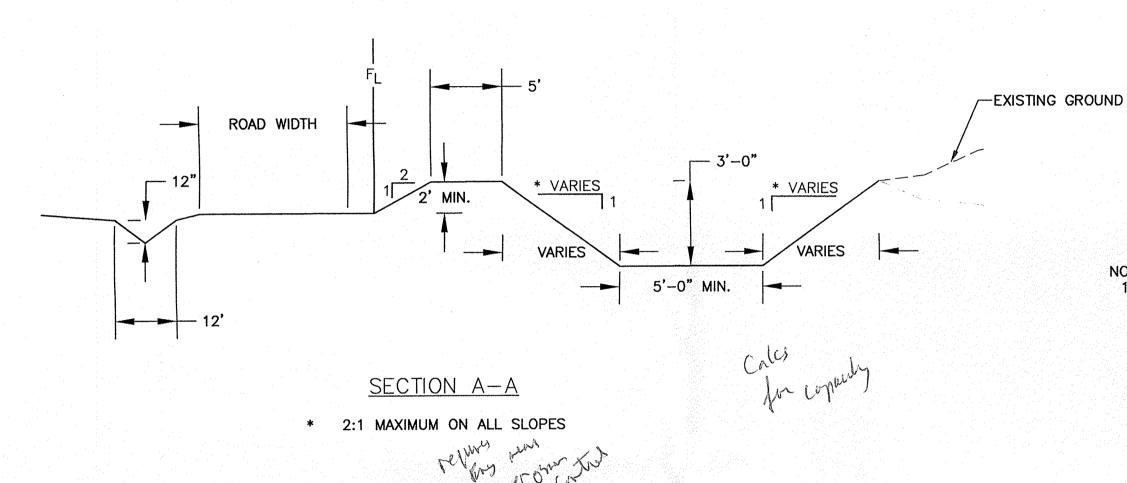


VISION DATE BY

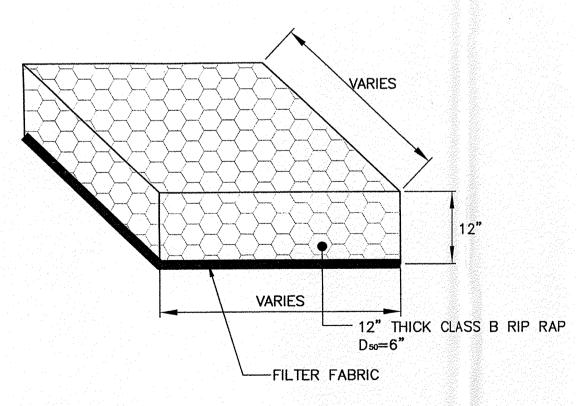




SECTION B-B

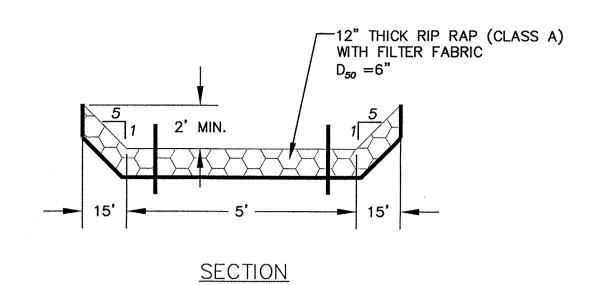


TRAPEZOIDAL CHANNEL SECTION DETAILS



RIP RAP PAD DETAIL

- 1. THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY THE NRCS FIELD OFFICE REPRESENTATIVE THAT IS APPROPRIATE FOR THE PROJECT LOCATION. ALL DISTURBED AREAS WITH SLOPES LESS THAN 3:1 SHALL RECEIVE CLASS "A" SEEDING. ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 3:1 SHALL RECEIVE STEEP SLOPE SEEDING. THE STEEP SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL. ALL MATERIALS, EQUIPMENT AND LABOR ASSOCIATED WITH THE PROPER CONSTRUCTION OF THE STEEP SLOPE SEEDING WILL BE CONSIDERED INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS MATERIAL OR WORK. THE COCONUT FIBER EROSION BLANKET AND ASSOCIATED SEEDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.
- 2. PNM AND ITS SOLAR CONTRACTOR WILL BE RESPONSIBLE FOR THE FINAL REVEGITATION AND GROUND STABILIZATION OF THE SOLAR ARRAY SITE AFTER THE COMPLETION OF THE INSTALLATION OF THE SOLAR ARRAY PANELS. THE FINAL GROUND STABILIZATION PROVIDED BY PNM AND ITS SOLAR ARRAY CONTRACTOR WILL BE ADEQUATE TO PREVENT EROSION ON THE SOLAR ARRAY SITE.
- 3. IN THE EVENT THAT THE PNM SPECIFICATIONS DO NOT ADDRESS A SPECIFIC ELEMENT OF WORK OUTLINED IN THESE DRAWINGS, THE GOVERNING SPECIFICATION THAT SHALL BE UTILIZED AND REFERENCED BY THE CONTRACTOR SHALL BE THE NEW MEXICO DEPARMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION (ORANGE BOOK).
- 4. AS THE OWNER, PNM SHALL BEAR THE RESPONSIBILITY FOR MAINTENANCE OF THE STORM WATER FACILITIES SPECIFIED ON THESE DRAWINGS. THE SOLAR ARRAY SITE, CONVEYANCE DITCHES, CHANNEL, BERMS, DIKES, THE RETENTION POND AND RELATED ELEMENTS WILL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED AND REPAIRED BY PNM AS REQUIRED TO INCLUDE EROSION REPAIRS, SILT REMOVAL AND THE LIKE.
- 5. COMPACT ALL CHANNELIZED AREAS, BERMS, AND DIKES TO 95% MAX. DRY DENSITY.



FLOWLINE INVERT
ELEV.=5084.00

SEE SHEET USS-14902-2
FOR SHAPE AND
DIMENSIONS

12'
POND INVERT
ELEV.=5080.00

STEEL RAILROAD
RAILS OR STEEL
ANGLES

PROFILE

12" THICK RIP RAP (CLASS A)
WITH FILTER FABRIC

TOP POND = 85.00

CREST = 84.00

SECTION

NATURAL GROUND

NATURAL GROUND

TOP POND = 85.00

SECTION

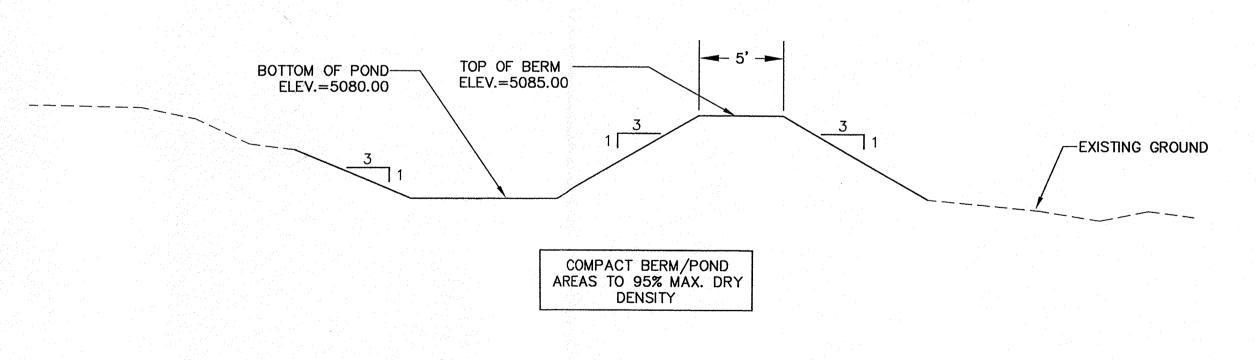
NATURAL GROUND

NATURAL GROUND

NATURAL GROUND

NATURAL GROUND

EMERGENCY RIP RAP SPILLWAY DETAIL



TYPICAL POND SECTION DETAIL

RIP RAP RUNDOWN DETAIL



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PIM PUBLIC SERVICE COMPANY OF NEW MEXICO MISCELLANEOUS DETAILS PNM REEVES SOLAR PARK DR: JAL TR: DATE: 11/03/10 CKD: VAM OK: SCALE: NO SCALE

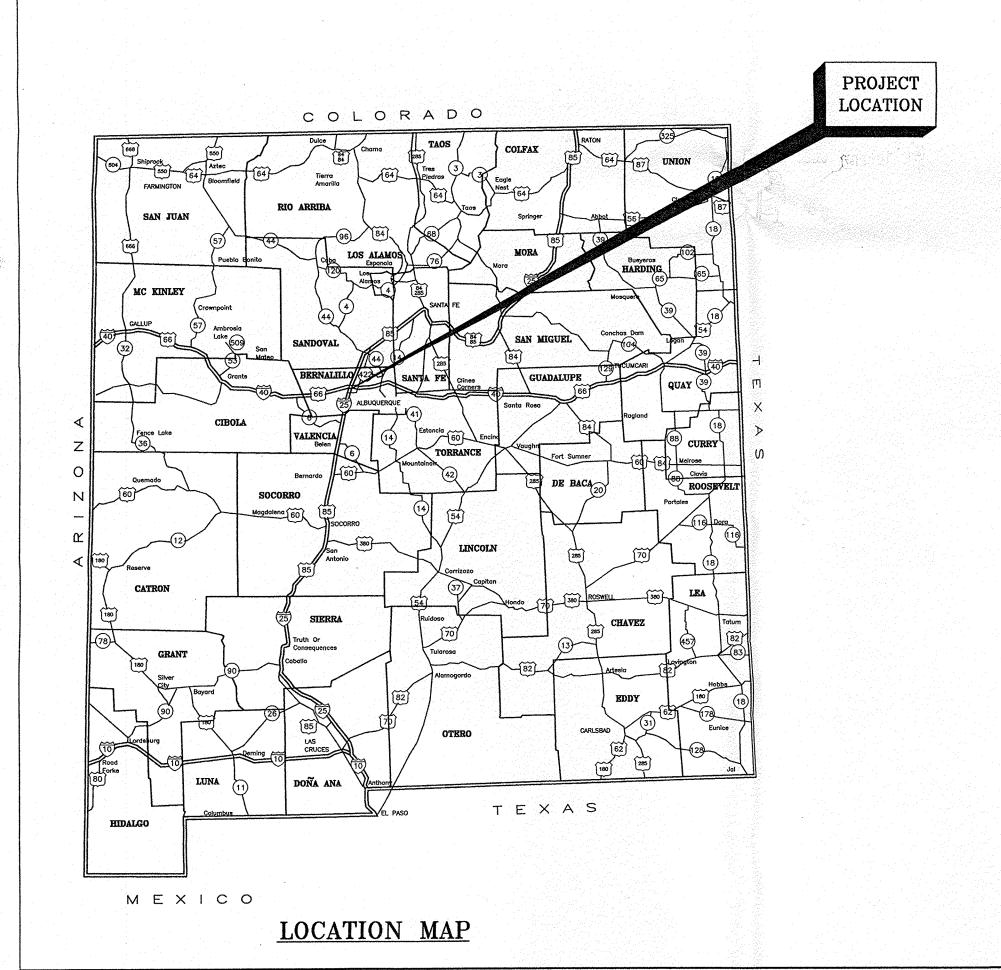
ACAD FILE:

REV. NO. 1

USS-14902-3

REVISION BY

PUBLIC SERVICE COMPANY OF NEW MEXICO PLANS FOR MASS GRADING AND DRAINAGE PLAN FOR REEVES SOLAR ARRAY PROJECT



NOVEMBER 19, 2010

FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. THESE IDEAS, DESIGNS, ARRANGEMENTS, OR PLANS SHALL NOT BE USED BY ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF MILLER ENGINEERING CONSULTANTS.

THESE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

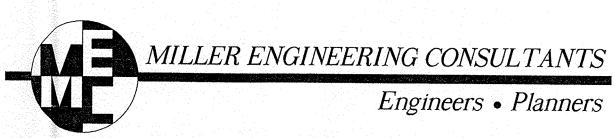
CERTIFICATION:

I, VERLYN A. MILLER, REGISTERED PROFESSIONAL ENGINEER NO. 14507 HEREBY CERTIFY THAT THE FOLLOWING PLANS AND DESIGNS WERE MADE UNDER MY SUPERVISION AND DIRECTION AND THAT SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



NEW MEXICO PROFESSIONAL ENGINEER

P.E. 14507



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PUBLIC SERVICE COMPANY COVER SHEET

PNM REEVES SOLAR PARK JAL

DATE: 11/03/10 SCALE: NO SCALE CKD: VAM ACAD FILE: USS-14902 REV. NO. 1

> NOV 19 2010 HYDROLOGY

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS SHOWN ON PLANS. DISTURBANCE TO PRIVATE PROPERTIES SHALL BE KEPT TO A MINIMUM. ANY COSTS ASSOCIATED WITH THE REPAIR TO PUBLIC OR PRIVATE PROPERTIES, CAUSED BY CONSTRUCTION ACTIVITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL DEVELOP THE TRAFFIC CONTROL PLAN AND SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES AND CONSTRUCTION SIGNING IN ACCORDANCE WITH THE "MUTCD" (LATEST EDITION) DURING THE CONSTRUCTION PERIOD (WORKING AND NON-WORKING HOURS). ANY NECESSARY DEVIATION FROM THE "MUTCD" SHALL HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER OR CONSTRUCTION INSPECTOR. THE CONTRACTOR SHALL SUBMIT A COPY OF THE PROPOSED TRAFFIC CONTROL PLAN TO THE ENGINEER AND THE CITY PROJECT COORDINATOR AT THE PRE-CONSTRUCTION MEETING. THIS PLAN SHALL SATISFY THE CITY OF ALBUQUERQUE REQUIREMENTS FOR PUBLIC SAFETY AND TRAVELING PUBLIC AS WELL AS THE REQUIREMENTS OF "MUTCD" AND SHALL BE REVISED AS NECESSARY TO MEET THE REQUIREMENTS DURING THE CONSTRUCTION PERIOD. THIS PLAN SHALL INCLUDE AN ADEQUATE NUMBER OF TRAFFIC CONTROL SIGNS & DEVICES AS DEEMED NECESSARY BY THE CITY PROJECT COORDINATOR. PAYMENT FOR DEVELOPING THE TRAFFIC CONTROL PLAN AND FOR ALL TRAFFIC CONTROL SIGNS AND DEVICES WILL BE MADE UNDER THE TRAFFIC CONTROL PLAN ITEM AND NO ADDITIONAL PAYMENT WILL BE MADE. THE SECTIONS OF ROADWAY WHICH ARE OPEN TO TRAFFIC SHALL BE KEPT IN GOOD RIDING CONDITION AND CLEAR OF HAZARDS TO TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND ACCESS TO RESIDENCES AND OTHER TURNOUTS SHALL BE OF PRIMARY CONSIDERATION. THE TRAFFIC CONTROL MANAGEMENT REQUIRED WILL BE INCLUDED IN THE PAYMENT FOR THE TRAFFIC CONTROL PLAN ITEM AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE.
- 3. ANY EXCESS MATERIAL (UNCLASSIFIED EXCAVATION) THAT CAN NOT BE USED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE HAULED TO A LOCATION ON THE PROJECT SITE AS DIRECTED BY PNM AND PNM REPRESENTATIVES. THE CONTRACTOR SHALL RECEIVE WRITTEN CONCURRENCE FROM THE CONSTRUCTION COORDINATOR AND INSPECTOR ON THE LOCATION OF THIS SITE. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE UNCLASSIFIED EXCAVATION ITEM AND NO ADDITIONAL PAYMENT WILL BE MADE.
- 4. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE CONTRACTOR MUST CONTACT THE UTILITY LINE LOCATING SERVICE (811) TWO WORKING DAYS PRIOR TO ANY EXCAVATION FOR THE LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS BEFORE COMMENCING WORK IN THE AREAS NEAR UNDERGROUND UTILITY LINES. CONTRACTOR SHALL NOT INTERFERE WITH UTILITY LINE OPERATION AND SHALL COORDINATE ALL WORK AFFECTING EXISTING UTILITIES WITH THE APPROPRIATE AUTHORITY FOR EACH UTILITY, AND THE CONSTRUCTION INSPECTOR SHALL BE PROMPTLY NOTIFIED OF ANY PROBLEMS OR CONFLICTS ENCOUNTERED.
- 5. DURING THE CONSTRUCTION OF THIS PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY THE UTILITY OWNERS (COUNTY AND/OR PRIVATELY OWNED). THE CONTRACTOR SHALL COORDINATE AND ADVISE THE UTILITY OWNERS, ALLOWING ENOUGH TIME SO THAT THE REQUIRED UTILITY ADJUSTMENTS DO NOT IMPEDE THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCE FROM SAID UTILITY APPURTENANCES.
- 6. THE USE OF HEAVY ROLLING EQUIPMENT (GREATER THAT 35 TONS STATIC) AND/OR VIBRATORY ROLLERS TO OBTAIN THE REQUIRED DENSITIES IN EMBANKMENT, EMBANKMENT FOUNDATION, MISCELLANEOUS FILLS, SUBGRADE & PAVEMENT WILL NOT BE PERMITTED IN URBAN OR OTHER AREAS WHERE THE USE OF SUCH EQUIPMENT WOULD DAMAGE UNREINFORCED MASONRY STRUCTURES, UNDERGROUND UTILITY FACILITIES OR OTHER PERMANENT INSTALLATION.
- 7. ALL AGGREGATES AND SUITABLE MATERIAL MAY BE OBTAINED FROM COMMERCIAL SOURCES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING A SUITABLE SOURCE MEETING ALL REQUIREMENTS OF THIS CONTRACT.
- 8. THE CONTRACTORS SHALL NOT EXCEED LEGAL LOADS ON EXISTING PAVED ROADWAYS.
- 9. TOPOGRAPHIC DATA, BENCHMARKS, REFERENCE POINTS, P.I.'S, STRUCTURE TIES, AND ALL OTHER MISCELLANEOUS SURVEY INFORMATION WAS OBTAINED FROM PREVIOUS FIELD SURVEYS. IT IS ENTIRELY POSSIBLE THAT THESE POINTS MAY NO LONGER EXIST IN THE FIELD. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO RE-ESTABLISH ANY MISSING BENCH MARKS, REFERENCE POINTS, OR P.I.'S REQUIRED FOR CONSTRUCTION OF THIS PROJECT AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY BETWEEN ADJACENT REFERENCE POINTS, BENCH MARKS, AND P.I.'S PRIOR TO THEIR USE IN CONSTRUCTING THIS PROJECT TO ASSURE THE INTEGRITY OF EACH POINT.
- 10. ALL EXISTING STREET SIGNS WILL BE REMOVED AS NECESSARY TO PERFORM CONSTRUCTION ACTIVITIES AND REPLACED IN A LOCATION TO BE DETERMINED BY THE PROJECT COORDINATOR. NO PAYMENT OR MEASUREMENT WILL BE MADE FOR THIS WORK.
- 11. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH PNM SPECIFICATIONS, AND SHALL ALSO BE IN COMPLIANCE WITH ALL CITY OF ALBUQUERQUE, STATE, AND FEDERAL REGULATIONS.
- 12. DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR WILL BE RESPONSIBLE FOR BUILDING, MANAGING, AND IMPLEMENTING THE TEMPORARY DRAINAGE MEASURES SPECIFIED IN THE SWPPP DOCUMENT PROVIDED BY PNM. ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY OR IMPROVEMENTS CONSTRUCTED BY THE CONTRACTOR RESULTING FROM STORM WATER FLOWS IN THE PROJECT VICINITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 13. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS MATERIAL, DEBRIS, AND ANY STRUCTURES AND/OR OBSTRUCTIONS REMOVED AT AN ENVIRONMENTALLY SUITABLE SITE AND SHALL COORDINATE WITH PNM TO DECIDE THE LOCATION. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE UNCLASSIFIED EXCAVATION ITEM.

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- 14. FILL/BACK-FILL SHALL BE PLACED IN EIGHT INCH LIFTS MAXIMUM AND COMPACTED TO 90 PERCENT OPTIMUM DENSITY AS PER ASTM D-1577 AND 95 PERCENT UNDER STRUCTURES INCLUDING DRIVEWAYS.
- 15. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
- 16. AS OF MARCH 10, 2003, THE USEPA REQUIRES NPDES PERMIT COVERAGE FOR STORM WATER DISCHARGES FROM CONSTRUCTION PROJECTS (COMMON PLANS OF DEVELOPMENT) THAT WILL RESULT IN THE DISTURBANCE (OR RE-DISTURBANCE) OF ONE OR MORE ACRES, INCLUDING EXPANSIONS OF TOTAL LAND AREA. THE DEVELOPER SHOULD BE MADE AWARE THAT THE USEPA REQUIRES THAT ALL "OPERATORS" (SEE FEDERAL REGISTER/VOL. 63, NO. 128 / MONDAY, JULY 6, 1999 PG 36509) OBTAIN NPDES PERMIT COVERAGE FOR CONSTRUCTION PROJECTS. GENERALLY THIS MEANS THAT AT LEAST TWO PARTIES WILL REQUIRE PERMIT COVERAGE. THE OWNER/DEVELOPER OF THIS CONSTRUCTION PROJECT WHO HAS OPERATIONAL CONTROL OVER THE PROJECT SPECIFICATIONS, THE GENERAL CONTRACTOR WHO HAS DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE SITE, WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE STORM WATER POLLUTION PLAN AND OTHER CONDITIONS, AND POSSIBLY OTHER "OPERATORS" THAT WILL REQUIRE APPROPRIATE NPDES PERMIT COVERAGE FOR THIS PROJECT. PNM WILL BE SOLELY RESPONSIBLE FOR DEVELOPING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT FOR THE PROJECT AND PROVIDING THE DOCUMENT FOR THE PROJECT. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR BUILDING, MANAGING AND MAINTAINING ALL BEST MANAGEMENT PRACTICES (BPM'S) AND TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE SWPPP DOCUMENT.
- 17. REMOVAL AND REINSTALLATION OF EXISTING FENCING WILL BE PAID FOR UNDER THE UNCLASSIFIED EXCAVATION ITEM AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.
- 18. ALL GEOTEXTILE FABRIC UNDERNEATH THE CLASS A RIP RAP SHALL BE CONSIDERED INCIDENTAL TO THE RIPRAP AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.
- 19. HORIZONTAL AND VERTICAL CONTROL IS BASED ON A STANDARD CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4 INCH ALUMINUM DISC SET FLUSH IN THE CONCRETE BRIDGE ABUTMENT STAMPED "13-D16 1991" LOCATED APPROXIMATELY 1.24 MILES WEST OF THE INTERSECTION O I-25 AND PASEO DEL NORTE TO THE NORTH DIVERSION CHANNEL AND THE STATION IS IN THE SOUTHWEST QUADRANT OF THE BRIDGE ABUTMENT WITHIN ALBUQUERQUE, NEW MEXICO. ELEVATION = 5073.47 FEET (NAVD 1988 VERTICAL DATUM). REFERENCE TOPOGRAPHIC SURVEY PREPARED BY TERRA LAND SURVEYS, LLC, DATED OCTOBER 14, 2010 FOR TEMPORARY BENCH MARK LOCATION AND COORDINATES.
- 20. CONTRACTOR SHALL OBTAIN A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO ANY GRADING OR CONSTRUCTION.
- 21. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT THE LINE LOCATING SERVICE (811), FOR LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND THE SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 22. ALL EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS HAS BEEN PROVIDED BY TERRA LAND SURVEYS, LLC. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- 23. THE SUBJECT PROPERTY APPEARS TO LIE WITHIN "ZONE X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP 35001C0136G, MAP REVISED SEPTEMBER 26, 2008.
- 24. THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY THE NRCS FIELD OFFICE REPRESENTATIVE THAT IS APPROPRIATE FOR THE PROJECT LOCATION. ALL DISTURBED AREAS WITH SLOPES LESS THAN 3:1 SHALL RECEIVE CLASS "A" SEEDING. ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 3:1 SHALL RECEIVE STEEP SLOPE SEEDING. THE STEEP SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL. ALL MATERIALS, EQUIPMENT AND LABOR ASSOCIATED WITH THE PROPER CONSTRUCTION OF THE STEEP SLOPE SEEDING WILL BE CONSIDERED INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS MATERIAL OR WORK. THE COCONUT FIBER EROSION BLANKET AND ASSOCIATED SEEDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.
- 25. PNM AND ITS SOLAR CONTRACTOR WILL BE RESPONSIBLE FOR THE FINAL REVEGITATION AND GROUND STABILIZATION OF THE SOLAR ARRAY SITE AFTER THE COMPLETION OF THE INSTALLATION OF THE SOLAR ARRAY PANELS. THE FINAL GROUND STABILIZATION PROVIDED BY PNM AND ITS SOLAR ARRAY CONTRACTOR WILL BE ADEQUATE TO PREVENT EROSION ON THE SOLAR ARRAY SITE.
- 26. IN THE EVENT THAT THE PNM SPECIFICATIONS DO NOT ADDRESS A SPECIFIC ELEMENT OF WORK OUTLINED IN THESE DRAWINGS, THE GOVERNING SPECIFICATION THAT SHALL BE UTILIZED AND REFERENCED BY THE CONTRACTOR SHALL BE THE NEW MEXICO DEPARMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION (ORANGE BOOK).
- 27. AS THE OWNER, PNM SHALL BEAR THE RESPONSIBILITY FOR MAINTENANCE OF THE STORM WATER FACILITIES SPECIFIED ON THESE DRAWINGS. THE SOLAR ARRAY SITE, CONVEYANCE DITCHES, CHANNEL, BERMS, DIKES, THE RETENTION POND AND RELATED ELEMENTS WILL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED AND REPAIRED BY PNM AS REQUIRED TO INCLUDE EROSION REPAIRS, SILT REMOVAL AND THE LIKE.

DRAWING INDEX:

SHEET NO.	SHEET TITLE
USS-14902-C USS-14902-0 USS-14902-1	GENERAL NOTES, DRAWING INDEX AND QUANTITIES SITE PLAN VICINITY MAP, FLOOD ZONE MAP, DRAINAGE BASINS, HYDROLOGY AND HYDROLOGIC CALCULATIONS
USS-14902-2 USS-14902-3	GRADING AND DRAINAGE PLAN MISCELLANEOUS DETAILS



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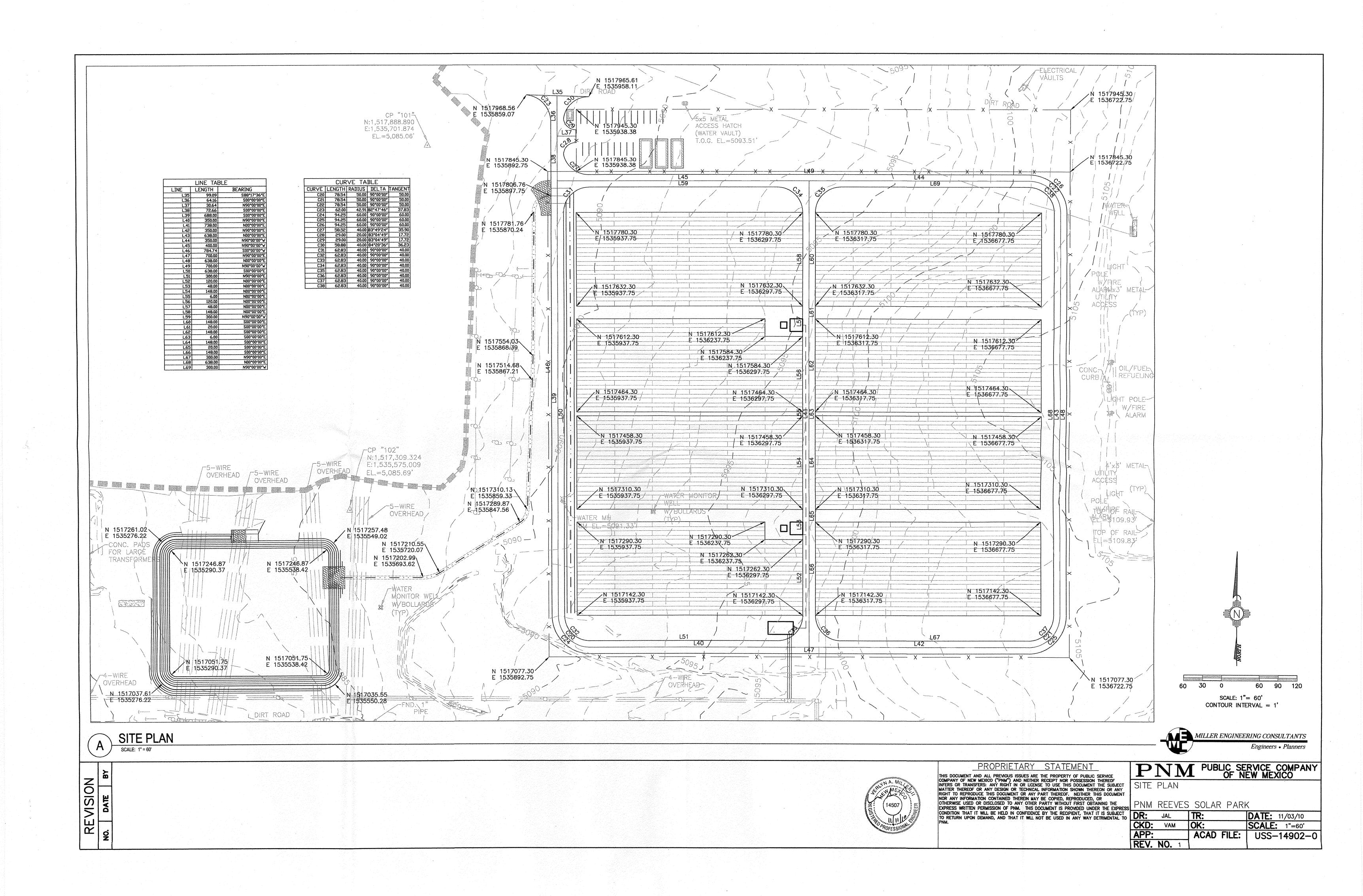
PIM PUBLIC SERVICE COMPANY
OF NEW MEXICO

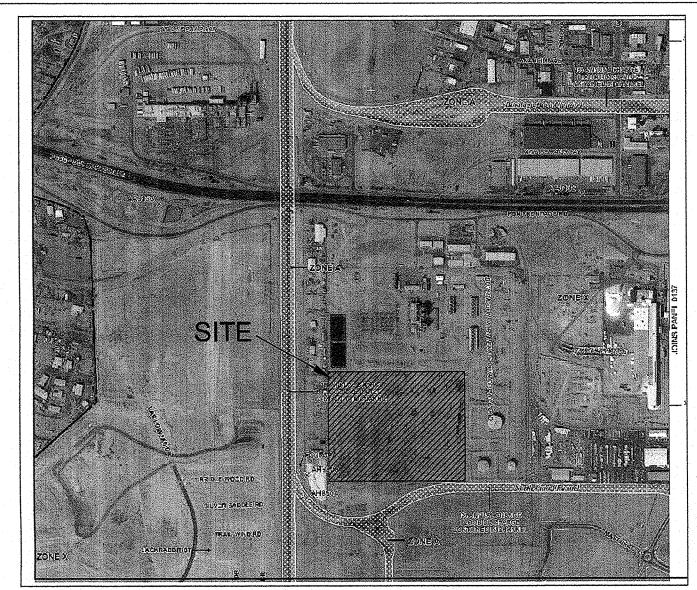
GENERAL NOTES QUANTITIES

GENERAL NOTES, QUANTITIES, DRAWING INDEX
PNM REEVES SOLAR PARK

DR: JAL TR:
CKD: VAM OK:
APP: ACAD FILE:
REV. NO. 1

DATE: 11/03/10 SCALE: NO SCALE USS-14902-C





FLOOD ZONE MAP 35001C0136G

EXISTING ON-SITE CONDITIONS

THE PROJECT SITE CONSISTS OF 30.60 ACRES (MORE OR LESS) AND IS CURRENTLY UNDEVELOPED AND CONSISTS OF BARE LAND THAT HAS BEEN RECENTLY CLEANED AND DISTURBED BY HUMAN ACTIVITY WITH SPARSE NATIVE VEGETATION. THE PROJECT SITE SLOPES TO THE WEST MODERATELY AT ABOUT 3%. THE EASTERN AND SOUTHERN EDGES OF THE PROJECT SITE HAVE BERMS ALONG THE ENTIRE LENGTHS, THEREFORE, THE PROJECT SITE DOES NOT RECEIVE ANY SIGNIFICANT OFF—SITE FLOWS. THE EXISTING LAND TREATMENTS AND EXISTING DRAINAGE BASINS FOR THE SITE ARE PROVIDED IN THE DRAINAGE DATA TABLES ON THIS SHEET.

PROPOSED DEVELOPMENT

THE PROPOSED DEVELOPMENT CONSISTS OF CONSTRUCTING A SOLAR PANEL ARRAY FOR THE PURPOSES OF GENERATING ELECTRIC POWER. THE SOLAR PANELS WILL BE LOCATED IN THE CENTER OF THE PROJECT AREA. AN UNIMPROVED MAINTENANCE ROAD WILL BE CONSTRUCTED AROUND THE SOLAR PANELS. STORMWATER FLOWS WILL BE ROUTED TO THE NORTHWEST CORNER OF THE SITE TO A DRAINAGE CHANNEL. THE DRAINAGE CHANNEL WILL BE LOCATED ALONG THE WEST EDGE OF THE MAINTENANCE ROAD WHICH RUNS NORTH—SOUTH ALONG THE WESTERN EDGE OF THE SITE. THE DRAINAGE CHANNEL WILL THEN ROUTE FLOWS SOUTH AND WEST TO A NEW RETENTION POND LOCATED AT THE SOUTHWEST CORNER OF THE SITE AREA. THE DRAINAGE CHANNEL WILL ENTER THE RETENTION POND THROUGH A WIRE ENCLOSED RIP RAP RUNDOWN. AN EMERGENCY WIRE ENCLOSED RIP RAP SPILLWAY WILL BE LOCATED ON THE NORTH EDGE OF THE RETENTION POND. THE PROPOSED LAND TREATMENTS AND PROPOSED DRAINAGE BASINS FOR THE SITE ARE PROVIDED IN THE DRAINAGE DATA TABLES ON THIS

STORM WATER ROUTING

STORMWATER FLOWS WILL BE ROUTED TO THE NORTHWEST CORNER OF THE SITE TO A DRAINAGE CHANNEL, THE DRAINAGE CHANNEL WILL BE LOCATED ALONG THE WEST EDGE OF THE MAINTENANCE ROAD WHICH RUNS NORTH—SOUTH ALONG THE WESTERN EDGE OF THE SITE. THE DRAINAGE CHANNEL WILL THEN ROUTE FLOWS SOUTH AND WEST TO A NEW RETENTION POND LOCATED AT THE SOUTHWEST CORNER OF THE SITE AREA. THE DRAINAGE CHANNEL WILL ENTER THE RETENTION POND THROUGH A WIRE ENCLOSED RIP RAP RUNDOWN. THE RETENTION POND WILL PROVIDE 100% CONTAINMENT OF THE 100 YEAR—24 HOUR STORM. HOWEVER, AN EMERGENCY WIRE ENCLOSED RIP RAP SPILLWAY WILL BE LOCATED ON THE NORTH EDGE OF THE RETENTION POND AS A SAFETY MEASURE, IF THE SITE SHOULD RECEIVE A STORM THAT EXCEEDS THE 100 YEAR—24 HOUR STORM, STORMWATER FLOWS WILL SPILL OVER THE CREST OF THE EMERGENCY SPILLWAY AND FOLLOW AN EXISTING DRAINAGE SWALE LOCATED ALONG THE NORTHERN EDGE OF THE NEW RETENTION POND AND EVENTUALLY TO THE EXISTING OUTFALL TO THE



VICINITY MAP ZONE ATLAS MAP D-17-Z

OFFSITE FLOWS

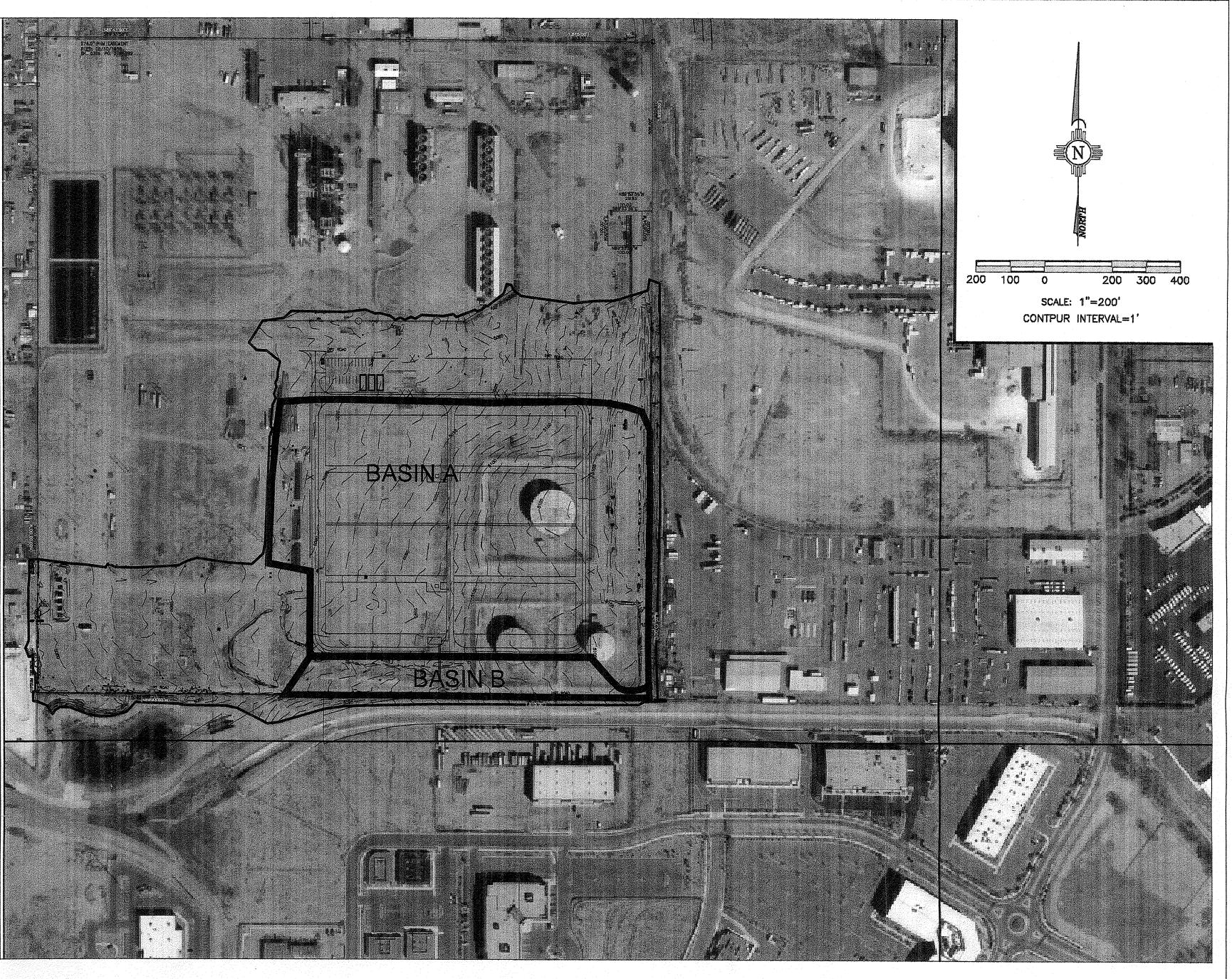
THE EASTERN AND SOUTHERN EDGES OF THE PROJECT SITE HAVE EXISTING BERMS ALONG THEIR ENTIRE LENGTHS. THEREFORE, THE PROJECT SITE DOES NOT RECEIVE ANY SIGNIFICANT OFF—SITE FLOWS.

LEGAL DESCRIPTION

PORTION OF P.N.M. REEVES SOLAR SITE

CONCLUSION

THE PROPOSED SOLAR FIELD WILL INCREASE STORMWATER FLOWS FROM THE SITE. THE DRAINAGE CHANNEL THAT WILL BE CONSTRUCTED WILL SAFELY CONVEY A 100 YEAR-24 HOUR STORM. THE RETENTION POND THAT WILL BE CONSTRUCTED WILL PROVIDE 100% CONTAINMENT OF THE 100 YEAR-24 HOUR STORM. AN EMERGENCY, WIRE-ENCLOSED, RIP RAP SPILLWAY WILL BE LOCATED ON THE NORTH EDGE OF THE RETENTION POND AS A SAFETY MEASURE. IF THE SITE SHOULD RECEIVE A STORM THAT EXCEEDS THE 100 YEAR-24 HOUR STORM VOLUME, STORMWATER FLOWS WILL SPILL OVER THE CREST OF THE EMERGENCY SPILLWAY AND FOLLOW AN EXISTING DRAINAGE SWALE LOCATED ALONG THE NORTHERN EDGE OF THE NEW RETENTION POND. THE EXCESS STORMWATER FLOW WILL BE ROUTED OFF-SITE TO THE EXISTING OUTFALL LOCATION.



DRAINAGE DATA

Precipita	tion Zone 2	- 100-year :	Storm	P(360) =	2.35	in	P(1440)	2.75	in
	Basin		and Treatr	nent Factor	` 5				
Basin	Area	Α	В	С	D	Ew	V(100-6)	V(100-24)	Q(100
	(Ac)		(Acres)		(in)	(af)	(af)	(cfs)
Existing (Conditions								
Α	18.58	0.00	0.00	18.58	0.00	1.13	1.750	1.750	58.34
В	2.48	0.00	0.00	2.48	0.00	1.13	0.234	0.234	7.79
Total	21.06								66.13
Propose	d Conditions								
Α	18.58	0.00	0.00	3.72	14.86	1.92	2.976	3,471	81.52
В	2.48	0.00	00.00	2.48	0.00	2.09	0.432	0.432	7.79
Total	21.06								89.31

Precipita	ation Zone 2 -	- 10-year S	torm	P(360) =	1,57	in in	P(1440):	1.84	in
	Basin		and Treat	ment Factor	\$				
Basin	Area	Α	В	С	D	∏ Ew	V(10-6)	V(10-24)	Q(10)
	(Ac)		(Acre	s)		(in)	(af)	(af)	(cfs)
Existing	Conditions								(A
Α	18.58	0.00	0.00	18.58	0.00	0.52	0.805	0.805	31.77
В	2.48	0.00	0.00	2.48	0.00	0.52	0.107	0.107	4.24
Total	21.06	ý, e							36.01
Propose	d Conditions								
А	18.58	0.00	0.00	3.72	14.86	1.18	1.821	2.152	53.02
В	2.48	0.00	0.00	2.48	0.00	0.52	0.107	0.107	4.24
Total	21.06								57.26

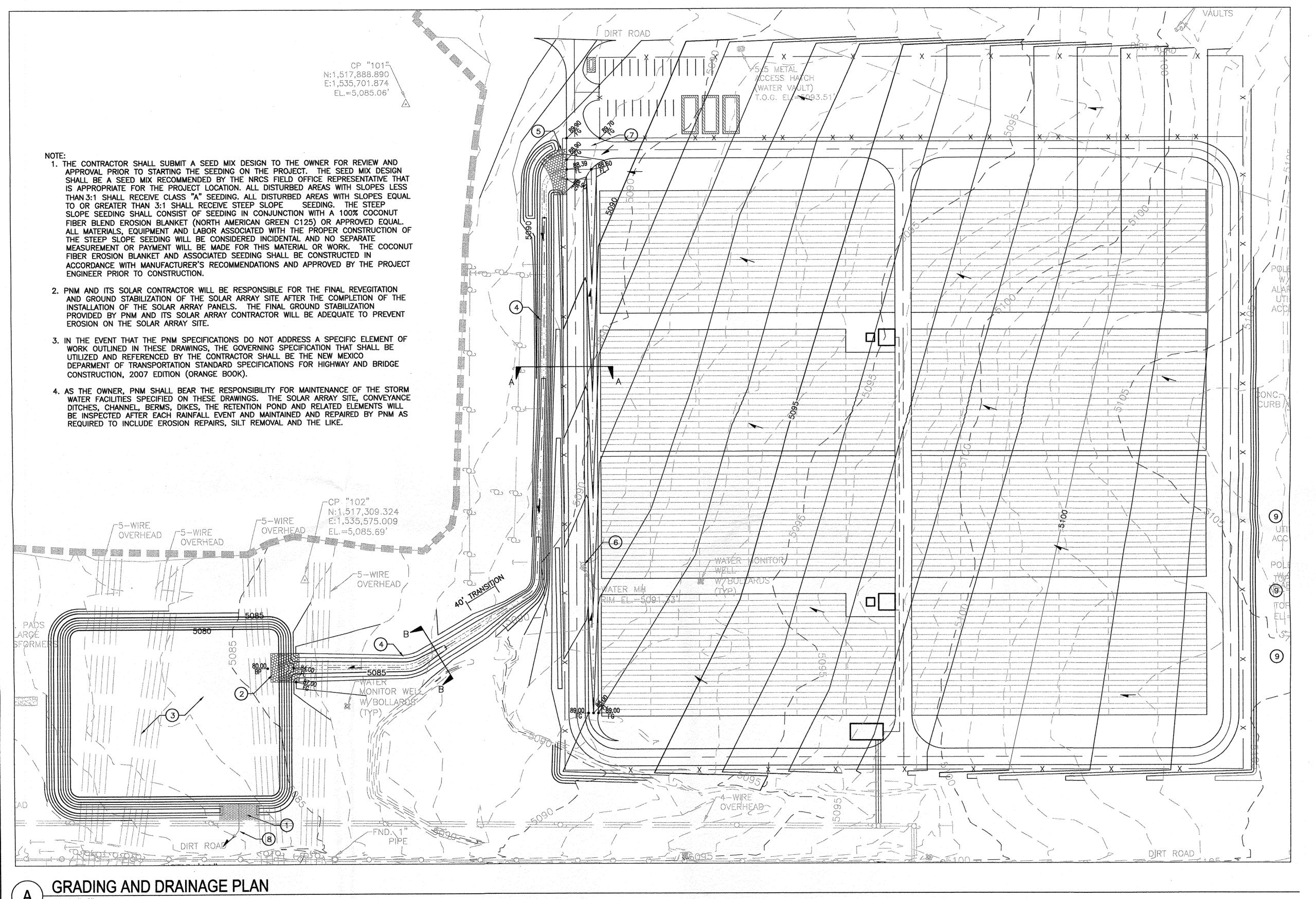
NO. DATE BY
1 11-19-10 JM
LIBUQUERQUE HYDROLOGY



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FLOOD ZONE, VICINITY, DRAINAGE BASINS
HYDROLOGIC CALCULATIONS
PNM REEVES SOLAR PARK

T TO	DR: JAL	TR:	DATE: 11/03/10
	CKD: VAM	OK:	SCALE: 1"=200'
	APP:	ACAD FILE:	USS-14902-1
	REV. NO. 1		



LEGEND	
_00.0 FG	PROPOSED SPOT ELEVATIONS
FL INV	FLOW LINE INVERT
FG	FINISHED GRADE
	PROPOSED FLOW ARROW
	PROPOSED RIP RAP
	SWALE
5895	PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR
——————————————————————————————————————	EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR

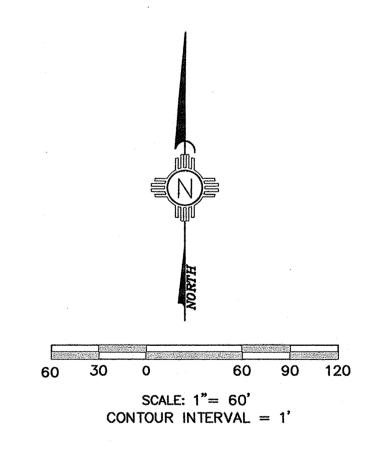
KEY NOTES

- 1 NEW EMERGENCY RIP RAP SPILLWAY. SEE DETAIL SHEET USS-14902-3.
- (2) NEW RIP RAP RUNDOWN. SEE DETAIL SHEET USS-14902-3.
- (3) NEW RETENTION POND. SEE DETAIL SHEET USS-14902-3. POND INV. = 5080.00POND OVERFLOW = 5084.00POND CREST = 5085.00
- (4) NEW TRAPEZOIDAL CHANNEL. SEE DETAIL SHEET USS-14902-3 FOR SECTION DETAIL 'A-A' AND SECTION DETAIL 'B-B'. BOTTOM WIDTH = 5.00TOP WIDTH = VARIES SIDE SLOPES = VARIES
- WATER SURFACE ELEVATION (100 YR., 24 HR.) = 5083.50 (5) NEW RIP RAP PAD. REFERENCE THIS SHEET FOR SHAPE AND
- DIMENSIONS. SEE DETAIL SHEET USS-14902-3. (6) REMOVE AND DISPOSE OF EXISTING VAULT AND LIGHT FIXTURE. TERMINATE AND ABANDON IN PLACE EXISTING CONDUITS.
- 7 REMOVE AND DISPOSE OF EXISTING VAULT. TERMINATE AND ABANDON IN PLACE EXISTING CONDUITS.
- (8) GRADE SWALE TO DAYLIGHT SOUTH TO AMAFCA'S NORTH PINO ARROYO EXISTING POND FACILTY.
- CONTRACTOR SHALL PLACE EXCESS EARTHWORK MATERIAL ALONG EAST FENCELINE TO IMPROVE EXISTING DIVERSION BERM. CONSULT WITH PROJECT MANAGER AND PROJECT ENGINEER PRIOR TO CONSTRUCTION.

ESTIMATED EARTHWORK

29,500 C.Y.

27,500 C.Y. (WITH 25% SHRINK/SWELL FACTOR)





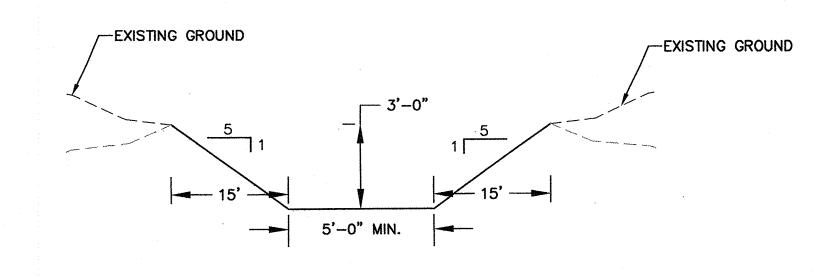


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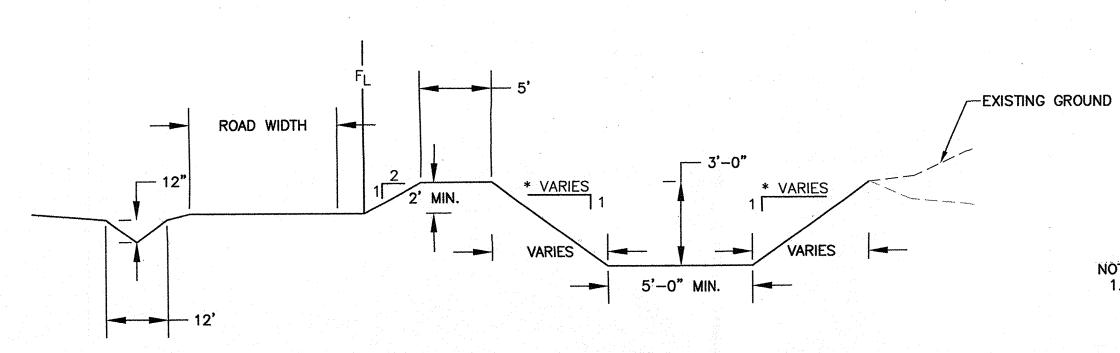
GRADING AND DRAINAGE PLAN

PNM REEVES SOLAR PARK

DR:	JAL	TR:		DATE: 11/03/10
CKD:	VAM	OK:		SCALE: 1"=60'
APP:		ACAD	FILE:	USS-14902-2
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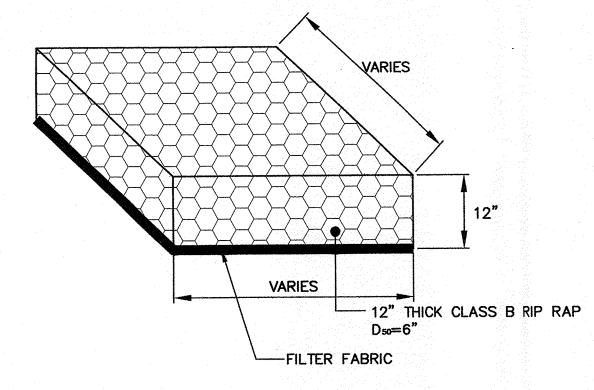
SECTION B-B



SECTION A-A

* 2:1 MAXIMUM ON ALL SLOPES

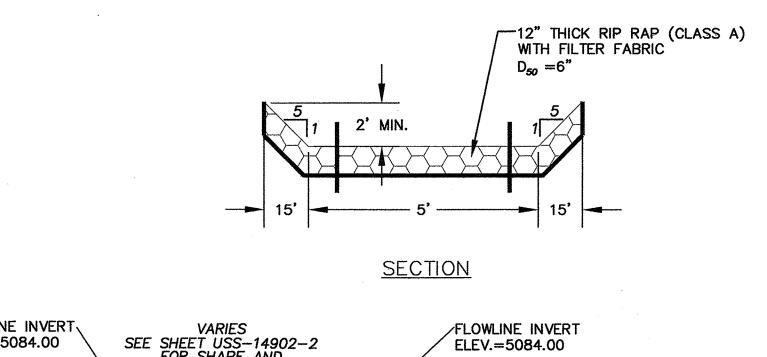
TRAPEZOIDAL CHANNEL SECTION DETAILS

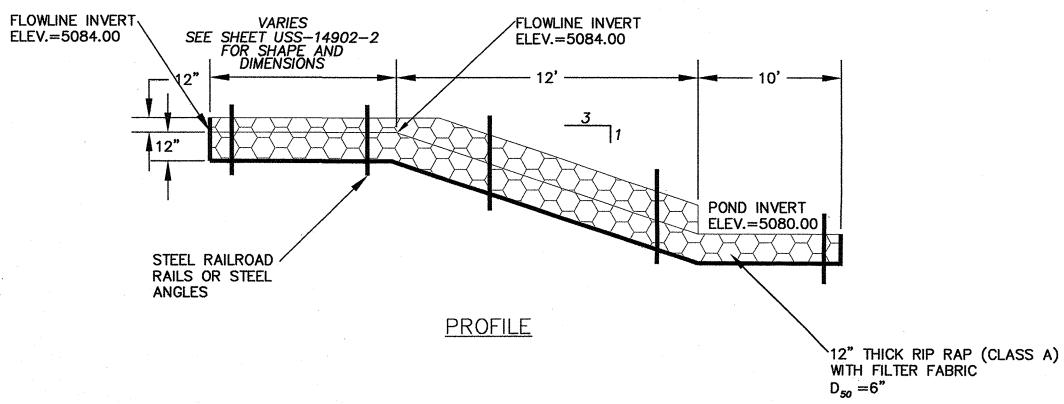


RIP RAP PAD DETAIL

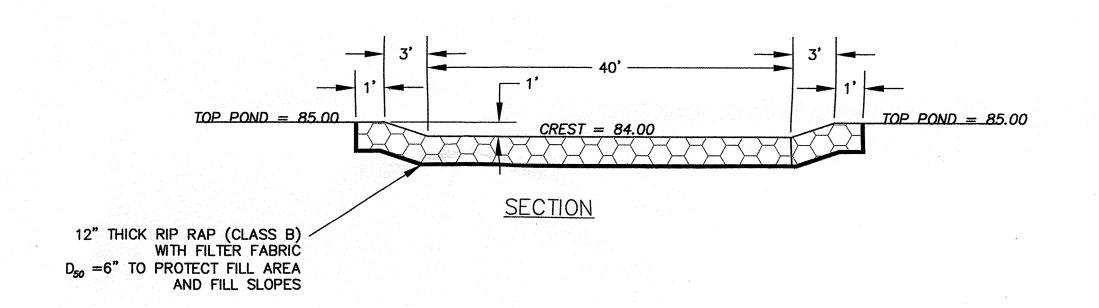
1. THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY THE NRCS FIELD OFFICE REPRESENTATIVE THAT IS APPROPRIATE FOR THE PROJECT LOCATION. ALL DISTURBED AREAS WITH SLOPES LESS THAN 3:1 SHALL RECEIVE CLASS "A" SEEDING. ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 3:1 SHALL RECEIVE STEEP SLOPE SEEDING. THE STEEP SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL. ALL MATERIALS, EQUIPMENT AND LABOR ASSOCIATED WITH THE PROPER CONSTRUCTION OF THE STEEP SLOPE SEEDING WILL BE CONSIDERED INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS MATERIAL OR WORK. THE COCONUT FIBER EROSION BLANKET AND ASSOCIATED SEEDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.

- 2. PNM AND ITS SOLAR CONTRACTOR WILL BE RESPONSIBLE FOR THE FINAL REVEGITATION AND GROUND STABILIZATION OF THE SOLAR ARRAY SITE AFTER THE COMPLETION OF THE INSTALLATION OF THE SOLAR ARRAY PANELS. THE FINAL GROUND STABILIZATION PROVIDED BY PNM AND ITS SOLAR ARRAY CONTRACTOR WILL BE ADEQUATE TO PREVENT EROSION ON THE SOLAR ARRAY SITE.
- 3. IN THE EVENT THAT THE PNM SPECIFICATIONS DO NOT ADDRESS A SPECIFIC ELEMENT OF WORK OUTLINED IN THESE DRAWINGS, THE GOVERNING SPECIFICATION THAT SHALL BE UTILIZED AND REFERENCED BY THE CONTRACTOR SHALL BE THE NEW MEXICO DEPARMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION (ORANGE BOOK).
- 4. AS THE OWNER, PNM SHALL BEAR THE RESPONSIBILITY FOR MAINTENANCE OF THE STORM WATER FACILITIES SPECIFIED ON THESE DRAWINGS. THE SOLAR ARRAY SITE, CONVEYANCE DITCHES, CHANNEL, BERMS, DIKES, THE RETENTION POND AND RELATED ELEMENTS WILL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED AND REPAIRED BY PNM AS REQUIRED TO INCLUDE EROSION REPAIRS, SILT REMOVAL AND THE LIKE.
- 5. COMPACT ALL CHANNELIZED AREAS, BERMS, AND DIKES TO 95% MAX. DRY DENSITY.

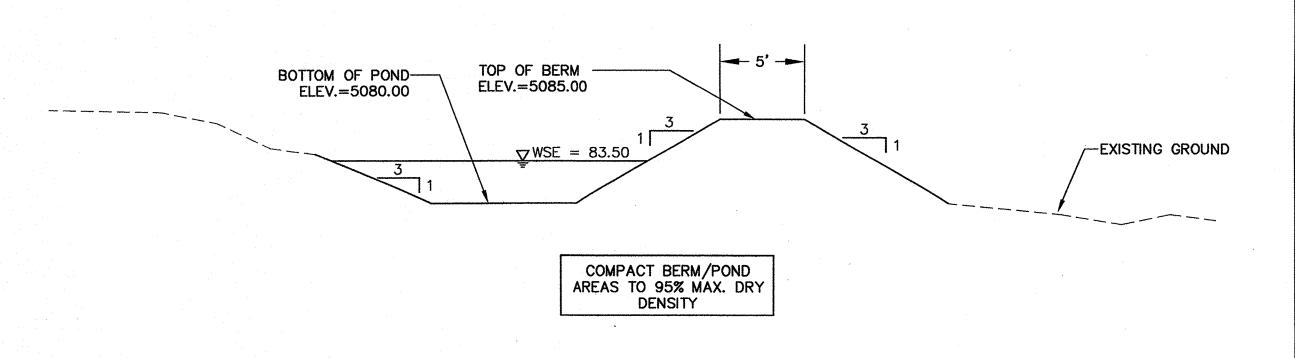




RIP RAP RUNDOWN DETAIL



EMERGENCY RIP RAP SPILLWAY DETAIL



TYPICAL POND SECTION DETAIL



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PIM PUBLIC SERVICE COMPANY
OF NEW MEXICO

MISCELLANEOUS DETAILS

PNM REEVES SOLAR PARK

DR: JAL TR: DATE: 11/03/10

CKD: VAM OK: SCALE: NO SCALE
APP: ACAD FILE: USS-14902-3

REV. NO. 1

REVISION

NO. DATE BY

1 11-19-10 JMJ

ADDRESSED CITY OF

ALBUQUERQUE HYDROLOGY