



# MOHAVE COUNTY FLOOD CONTROL DISTRICT

CONSTRUCTION PLANS FOR

**CRESTWOOD BASIN**  
SECTION 2, TOWNSHIP 21 NORTH, RANGE 17 WEST  
OF THE GILA AND SALT RIVER MERIDIAN

MOHAVE COUNTY CONTRACT NO. 21-PS-16

JE FULLER PROJECT NO. P4414.01

**PREPARED FOR**

MOHAVE COUNTY FLOOD CONTROL DISTRICT  
3250 E KINO AVE  
PO BOX 7000  
KINGMAN, AZ 86409  
(928) 757-0925  
CONTACT: KATHERINE FISH, CFM

**ENGINEER**

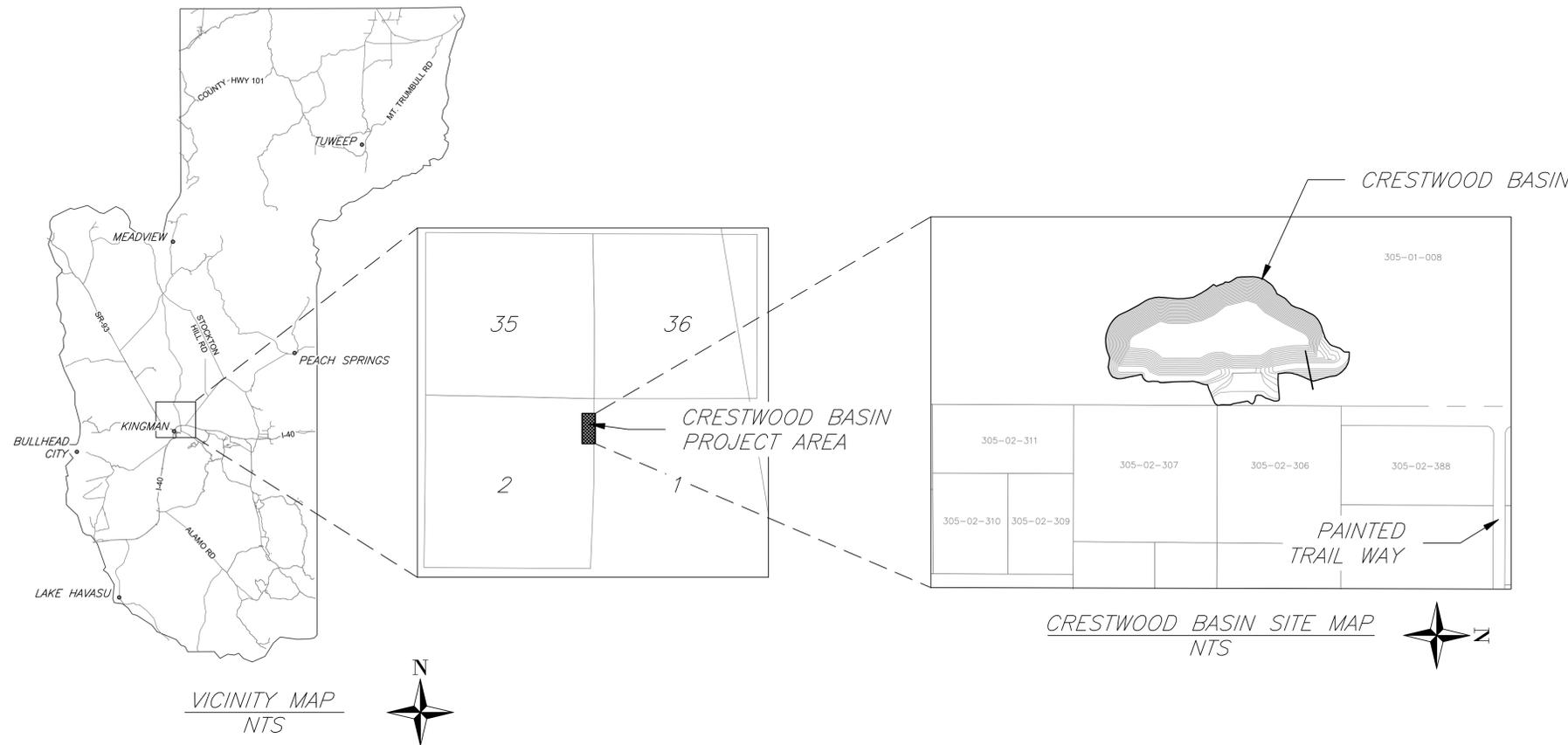
JE FULLER/HYDROLOGY & GEOMORPHOLOGY, INC.  
40 E HELEN ST  
TUCSON, AZ 85705  
CONTACT: CYRUS MILLER, P.E., CFM

**SURVEY DATUM**

-HORIZONTAL: NORTH AMERICAN Datum 1983, NSRS2007,  
STATE PLANE ARIZONA WEST  
-VERTICAL: NAVD88

**INDEX OF SHEETS**

DWG. NO.	SHT. NO.	DESCRIPTION
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DT-01	3	DETAIL SHEET
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GD-01	5	GRADING SHEET



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NO.	REVISION	BY	DATE
 <b>MOHAVE COUNTY FLOOD CONTROL DISTRICT</b>			
<b>CRESTWOOD BASIN PROJECT MOHAVE COUNTY KINGMAN, ARIZONA</b>			
		BY	DATE
		DESIGNED	CDM / CGC 11/26/2024
		DRAWN	CGC 11/26/2024
		CHECKED	CDM 11/26/2024
 <b>JE FULLER</b> 40 E HELEN ST TUCSON, AZ 85705 (520) 270-1650		SHEET OF	
DRAWING NO. CS-01		COVER SHEET	
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**GENERAL CONSTRUCTION NOTES**

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO APPLICABLE MOHAVE COUNTY STANDARDS AND BY REFERENCE THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) SPECIFICATION AND DETAILS, 2024 REVISIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- THE OWNER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES SHOWN ON PLANS. EXISTING UNDERGROUND UTILITIES SHOWN ON PLANS ARE BASED UPON BEST AVAILABLE INFORMATION. CAUTION SHOULD BE TAKEN IN ALL EXCAVATIONS. UTILITY LINES MAY BE ENCOUNTERED DURING EXCAVATION THAT ARE NOT SHOWN IN PLANS OR KNOWN TO EXIST.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND/OR ELEVATION OF EXISTING UTILITIES WHICH PERTAIN TO AND AFFECT THE CONSTRUCTION OF THIS PROJECT AND SHALL NOTIFY THE OWNER OF ANY CONFLICTING CONDITIONS.
- THE OWNER IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGE TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND SHALL TAKE ALL PRECAUTIONS TO PROTECT AND AVOID DAMAGE TO EXISTING FACILITIES. ACTIVE OR INACTIVE UTILITIES ENCOUNTERED SHALL BE HANDLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANIES.
- TWO (2) WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CALL THE BLUE STAKE CENTER (1-800-STAKEIT).
- PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY THEMSELVES AS TO THE ACTUAL CONDITIONS AND REQUIREMENTS OF THE WORK. NO CLAIM SHALL BE MADE AGAINST THE OWNER OR THE ENGINEER FOR ANY ALLEGED MISUNDERSTANDING OF THE CONDITIONS OR NATURE OF THE WORK.
- NOTHING CONTAINED IN THE CONSTRUCTION PLANS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
- THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AT HIS OWN EXPENSE, SUCH PERMITS AS ARE REQUIRED FROM THE APPROPRIATE AGENCY.
- THE ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- WORK NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- IT SHALL BE THE RESPONSIBILITY OF THE BIDDER TO VERIFY ALL QUANTITIES, INCLUDING EXCAVATION, BORROW, EMBANKMENT, SHRINK OR SWELL, GROUND COMPACTION, HAUL AND ANY OTHER ITEMS AFFECTING THEIR BID AND TO BASE THEIR BID SOLELY UPON THEIR OWN VERIFIED QUANTITIES, IRRESPECTIVE OF THE INFORMATION PROVIDED. IT SHALL BE THE BIDDER'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO BIDDING OF ANY MAJOR DISCREPANCIES.
- DISPOSAL AND/OR STOCKPILING OF MATERIAL SHALL BE DONE IN SUCH A WAY THAT WILL NOT CREATE A NUISANCE. PLACING OF MATERIAL ON PRIVATE PROPERTY REQUIRES WRITTEN AUTHORIZATION.
- THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING, CAREFUL GRADE CONTROL AND GRADE CHECKING WITH FINISH AS-BUILT PLANS AS REQUIRED TO PROVIDE PROPER DRAINAGE RELEASE.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL PAVEMENT IS SWEEPED CLEAN OF ALL DIRT AND DEBRIS

**GENERAL GRADING NOTES**

- EXCAVATED MATERIAL SHALL CONFORM TO MAG SPECIFICATIONS, SECTION 210, UNLESS NOTED OTHERWISE.
- FILL CONSTRUCTION SHALL CONFORM TO MAG SPECIFICATIONS, SECTION 211, UNLESS NOTED OTHERWISE.
- ALL SUBGRADE MATERIALS SHALL BE SCARIFIED TO A DEPTH OF EIGHT INCHES (8"), THE MOISTURE CONTENT ADJUSTED TO NEAR OPTIMUM, THEN COMPACTED TO 95 PERCENT OF ASTM D-698.
- SUFFICIENT COMPACTION TESTS SHALL BE TAKEN TO VERIFY COMPLIANCE WITH MAG SPECIFICATIONS.
- CLEARING AND GRUBBING SHALL EXTEND TO THE LIMITS OF GRADING AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH MAG SPECIFICATIONS, SECTION 201.
- TRENCH EXCAVATIONS, BACKFILLING AND COMPACTION SHALL CONFORM TO MAG SPECIFICATIONS, SECTION 601, TYPE I, UNLESS NOTED OTHERWISE.
- THE GROUND SURFACE SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION, NON-COMPLYING FILL, AND OTHER UNSUITABLE MATERIALS.
- NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 6 INCHES SHALL BE ALLOWED IN FILLS IN THE ABSENCE OF A SOILS REPORT AND INSPECTION BY A SOILS ENGINEER.
- ALL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AND VERIFIED BY A COMPACTION REPORT WHEN SUPPORTING A STRUCTURE.

**ENGINEER'S NOTES**

- NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE NOR SHALL BE CONSTRUED TO CREATE ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
- THE ENGINEER AND/OR OWNER ARE NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK.
- THE ENGINEER AND/OR OWNER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS NOR ANY COSTS INCURRED WHETHER INITIAL OR ADDITIONAL TO CORRECT MODIFY OR ALTER ANY CONSTRUCTION COMPLETED CONTRARY TO THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ACCURATE RECORD DRAWING MEASUREMENTS OF ALL EXISTING AND NEW IMPROVEMENTS AND SECURING THE ACCEPTANCE OF THE RECORD DRAWING BY THE JURISDICTIONAL AGENCY.
- THE CONTRACTOR SHALL NOTIFY MOHAVE COUNTY BEFORE THE WORK IS COVERED SO RECORD DRAWING MEASUREMENT MAY BE TAKEN. WORK SHALL NOT BE COVERED UNTIL MEASUREMENTS HAVE BEEN COMPLETED.
- A THOROUGH ATTEMPT HAS BEEN MADE TO SHOW THE LOCATIONS OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION AND SHALL DETERMINE THE EXACT LOCATION OF UTILITIES IN THE AREA AND SO NOTE ON THE RECORD DRAWINGS. FIELD VERIFY LOCATION AND INVERT OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MOHAVE COUNTY STANDARDS AND/OR MAG SPECIFICATIONS.
- ALL DEMOLITION DEBRIS SHALL BE HAULED BY THE CONTRACTOR TO AN APPROVED LANDFILL FACILITY FOR DISPOSAL. CONTRACTOR SHALL PAY ALL DISPOSAL FEES.

**EROSION AND WATER QUALITY CONTROL NOTES**

- INSTALL ALL TEMPORARY EROSION CONTROL MEASURES IN ACCORDANCE WITH MAG STANDARDS PRIOR TO SITE DISTURBANCE.
- INSTALL BASIN OUTLET PROTECTION TO PREVENT CLOGGING OF THE STORM SEWER AND SEDIMENT LOADS TO DOWNSTREAM STORM WATER FACILITIES WATER BODIES.
- GRADE TO THE DEPTH (ELEVATION) SPECIFIED IN THE CONSTRUCTION DOCUMENTS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- TOPSOIL WILL GENERALLY CONSIST OF THE TOP 6"-12" OF SOIL AND ORGANICS SHALL BE STOCKPILED SEPARATELY AND REPLACED AS PER PLANS. UNSUITABLE EXCAVATED MATERIAL WILL CONSIST OF MATERIAL FROM THE RESTRICTIVE LAYER AND OTHER SOILS OF LOW HYDRAULIC CONDUCTIVITY (E.G. CLAYS AND SILTS) AS IDENTIFIED BY THE ENGINEER SHALL BE STOCKPILED SEPARATELY FOR REMOVAL FROM THE SITE. OTHER SUITABLE EXCAVATED MATERIAL WILL BE REPLACED AS PER PLANS WITH EXCESS REMOVED FROM THE SITE.
- EXISTING VEGETATION OUTSIDE OF BASIN FOOTPRINT MUST NOT BE DISTURBED. DUST CONTROL DURING CONSTRUCTION MUST BE PROVIDED AND A SWPPP WILL BE REQUIRED.

**CRESTWOOD BASIN**



**SURVEY BENCHMARK KEY MAP**

**LEGEND**

- PARCEL LINE
- - - - EXISTING MINOR CONTOUR (1-FT)
- - - - EXISTING MAJOR CONTOUR (1-FT)
- - - - PROPOSED MINOR CONTOUR (1-FT)
- - - - PROPOSED MAJOR CONTOUR (1-FT)
- ▨ PROPOSED CONCRETE
- ▩ PROPOSED EROSION PROTECTION
- ➔ FLOW DIRECTION ARROW

**CRESTWOOD BASIN EARTHWORK**

CUT: 38,400 CY  
 FILL: 760 CY  
 TOTAL: 37,640 CY (CUT & EXPORT)

**PROJECT BENCHMARKS**

**BENCHMARK ID: 702**  
 DESC.: CHIS X SET 70FT SE OF 701  
 N: 1541733.604  
 E: 607999.557  
 ELEV.: 3657.034

**BENCHMARK ID: 2001**  
 DESC.: BC 3IN S2 S1 1-4 1995 RLS 23391  
 N: 1541659.051  
 E: 608090.611  
 ELEV.: 3651.181

**BENCHMARK ID: 707**  
 DESC.: RB 0.5IN SET CONTRL CAP 100FT W OF HAFLEY DR END  
 N: 1542984.893  
 E: 607936.727  
 ELEV.: 3678.79

**BENCHMARK ID: 2009**  
 DESC.: RB 5-BIN CAP CARLTON RLS 19319  
 N: 1542987.553  
 E: 608095.95  
 ELEV.: 3676.395

**BENCHMARK ID: 709**  
 DESC.: NGS E 253 RESET (PID FS0568)  
 N: 1524774.461  
 E: 606649.186  
 ELEV.: 3339.08

**GRID-BASED TIE LINES BETWEEN SURVEY BENCHMARKS (LISTED ABOVE)**  
 702 TO 2001: SOUTH 50° 41' 25" EAST 117.68'  
 702 TO 707: NORTH 2° 52' 28" WEST 1252.87'  
 707 TO 2009: NORTH 89° 02' 34" EAST 159.25'  
 2009 TO 2001: SOUTH 0° 13' 49" WEST 1328.51'

**UTILITY NOTIFICATIONS**

COMPANY	CONTACT	PHONE
CITY OF KINGMAN (WATER/SEWER)	CARLOS RODRIGUEZ	(928) 716-5545
UNISOURCE (ELECTRIC)	PAUL MARTIN	(928) 681-8924
UNISOURCE (GAS)	UES GAS	(877) 837-4968
ALLO (FIBEROPTIC)	JUSTIN MARTIN	(928) 733-7002
FRONTIER (COMM.)	USIC DISPATCH CENTER (24-HOUR)	(800) 778-9140
NPG CABLE, LLC/DBA SUDDENLINK (COMM.)	SANFORD YAZZIE	(928) 606-2464
BLACK MESA PIPELINE, INC. (COAL SLURRY)	MIKE KEAMS	(928) 606-3445

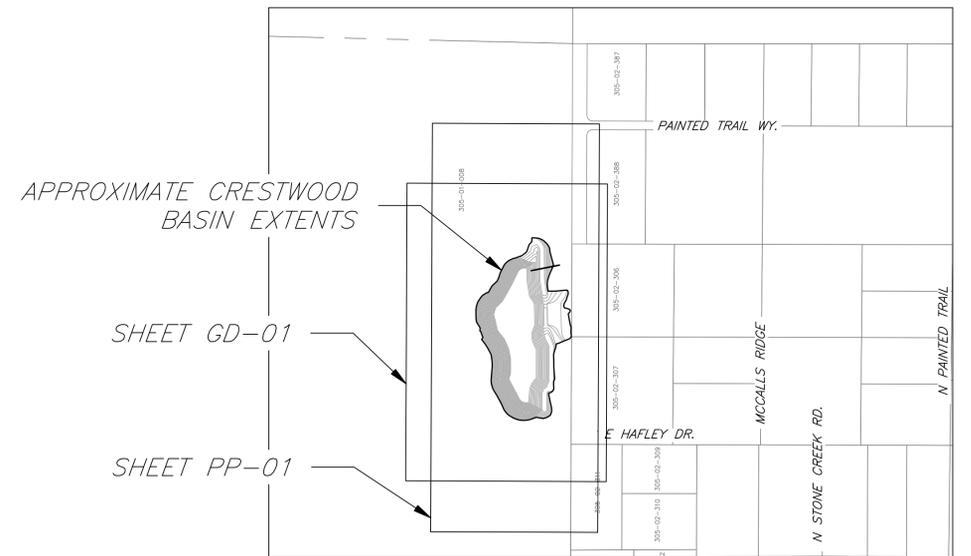
Line Table: Alignment

Line #	Length (feet)	Direction	Start Point	End Point	Start Station (feet)	End Station (feet)	Alignment
L1	137.23	N0° 04' 26.67"E	(608002.30,1543022.43)	(608002.48,1543159.66)	10+00.00	11+37.23	Crestwood Access Road
L2	135.68	N0° 04' 23.53"E	(608026.18,1543178.93)	(608026.35,1543314.60)	11+72.18	13+07.85	Crestwood Access Road
L3	115.37	N0° 56' 51.37"W	(608007.07,1543367.22)	(608005.16,1543482.57)	13+64.43	14+79.80	Crestwood Access Road
L4	54.91	N9° 31' 07.40"W	(608005.16,1543482.57)	(607996.08,154356.72)	14+79.80	15+34.71	Crestwood Access Road
L5	87.84	N0° 20' 24.83"W	(607994.21,1543563.66)	(607993.69,1543651.50)	15+61.76	16+49.60	Crestwood Access Road

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point	Start Station	End Station	Alignment
C1	13.71	24.31	N50° 52' 55.31"E	(608002.48,1543159.66)	(608018.96,1543173.06)	11+37.23	11+61.53	Crestwood Access Road
C2	6.00	10.64	N50° 52' 53.74"E	(608018.96,1543173.06)	(608026.18,1543178.93)	11+61.53	11+72.18	Crestwood Access Road
C3	35.04	20.09	N16° 21' 04.25"W	(608026.35,1543314.60)	(608020.77,1543333.62)	13+07.85	13+27.94	Crestwood Access Road
C4	98.74	36.49	N22° 11' 14.43"W	(608020.77,1543333.62)	(608007.07,1543367.22)	13+27.94	13+64.43	Crestwood Access Road
C5	139.66	27.05	N3° 58' 15.86"W	(607996.08,154356.72)	(607994.21,1543563.66)	15+34.71	15+61.76	Crestwood Access Road

**ALIGNMENT CONTROL TABLE**



**PLAN SHEET KEY MAP**



NO.	REVISION	BY	DATE
3			
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**MOHAVE COUNTY FLOOD CONTROL DISTRICT**

**CRESTWOOD BASIN PROJECT  
 MOHAVE COUNTY  
 KINGMAN, ARIZONA**

	BY	DATE
DESIGNED	CDM / CGC	11/26/2024
DRAWN	CGC	11/26/2024
CHECKED	CDM	11/26/2024

**JE FULLER**  
 40 E HELEN ST  
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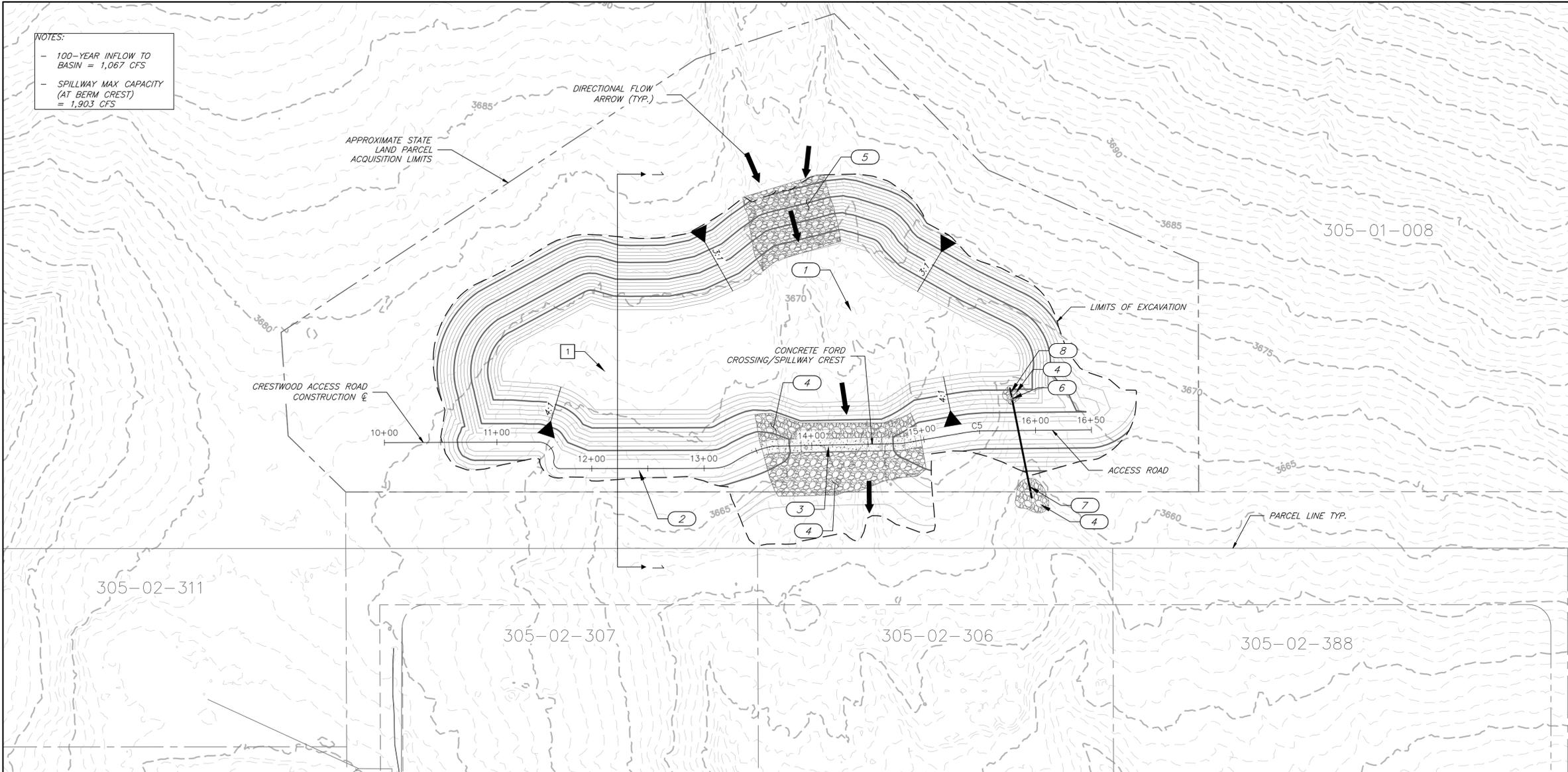
DRAWING NO. GN-01

GENERAL NOTES

SHEET OF 2 5



NOTES:  
 - 100-YEAR INFLOW TO BASIN = 1,067 CFS  
 - SPILLWAY MAX CAPACITY (AT BERM CREST) = 1,903 CFS



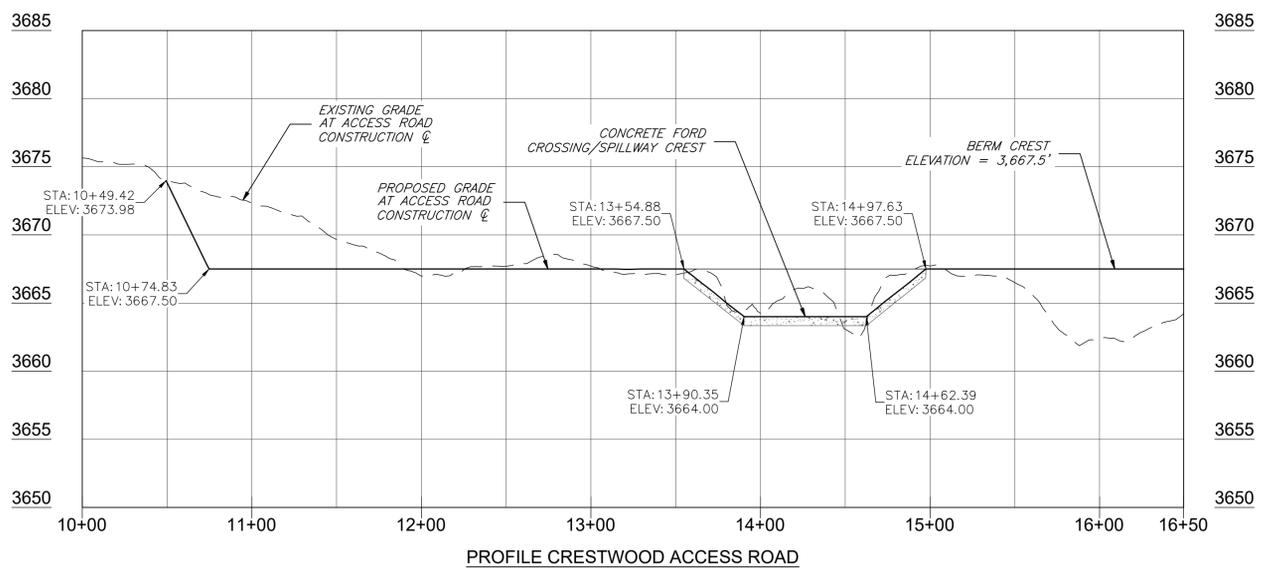
REMOVE		
	UNIT	QTY
1	LS	1

RELOCATE		
	UNIT	QTY

CONSTRUCT		
	UNIT	QTY
1	CY	39,160
2	LF	450
3	EA	1
4	CY	570
5	CY	535
6	EA	1
7	LF	90
8	LF	7

CONSTRUCTION ITEM NOTES:  
 \* NO CALCULATIONS OR ANALYSES WERE PERFORMED FOR THE SIZING AND PLACEMENT OF THE BASIN INLET EROSION PROTECTION SHOWN ON THESE PLANS. THE PROJECT OWNER HAS DECIDED THAT THE BASIN WILL BE MAINTAINED AND REHABILITATED AS NEEDED IN THE CASE OF SEDIMENTATION/EROSION/HEADCUTTING, AND FORMAL SIZING OF THE BASIN INLET EROSION PROTECTION WAS NOT PERFORMED. RIPRAP IS TO BE PLACED AT THIS LOCATION AS MATERIALS COME AVAILABLE FROM EXCAVATION FOR ADDED PROTECTION AT THE DIRECTION OF THE PROJECT OWNER.

UTILITY WARNING: BLACK MESA PIPELINE ABANDONED COAL SLURRY FACILITIES ARE BELIEVED TO BE LOCATED ADJACENT TO THE PROJECT AREA. HORIZONTAL AND VERTICAL LOCATIONS OF THESE FACILITIES ARE NOT AVAILABLE, BUT IT IS BELIEVED THAT THESE PIPELINES ARE LOCATED OUTSIDE (TO THE WEST) OF THE BASIN EXCAVATION LIMITS. IF ANY UNMARKED UNDERGROUND FACILITIES ARE UNCOVERED DURING CONSTRUCTION, DO NOT ASSUME THEY ARE ABANDONED LINES, AND CONTACT ARIZONA 811 IMMEDIATELY TO PROCESS AN UNKNOWN LINE TRANSACTION TO DETERMINE IF THE FACILITY IS ACTIVE OR ABANDONED.



0 25 50 100  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=5'

ARIZONA 811  
 Call 811 or click Arizona811.com

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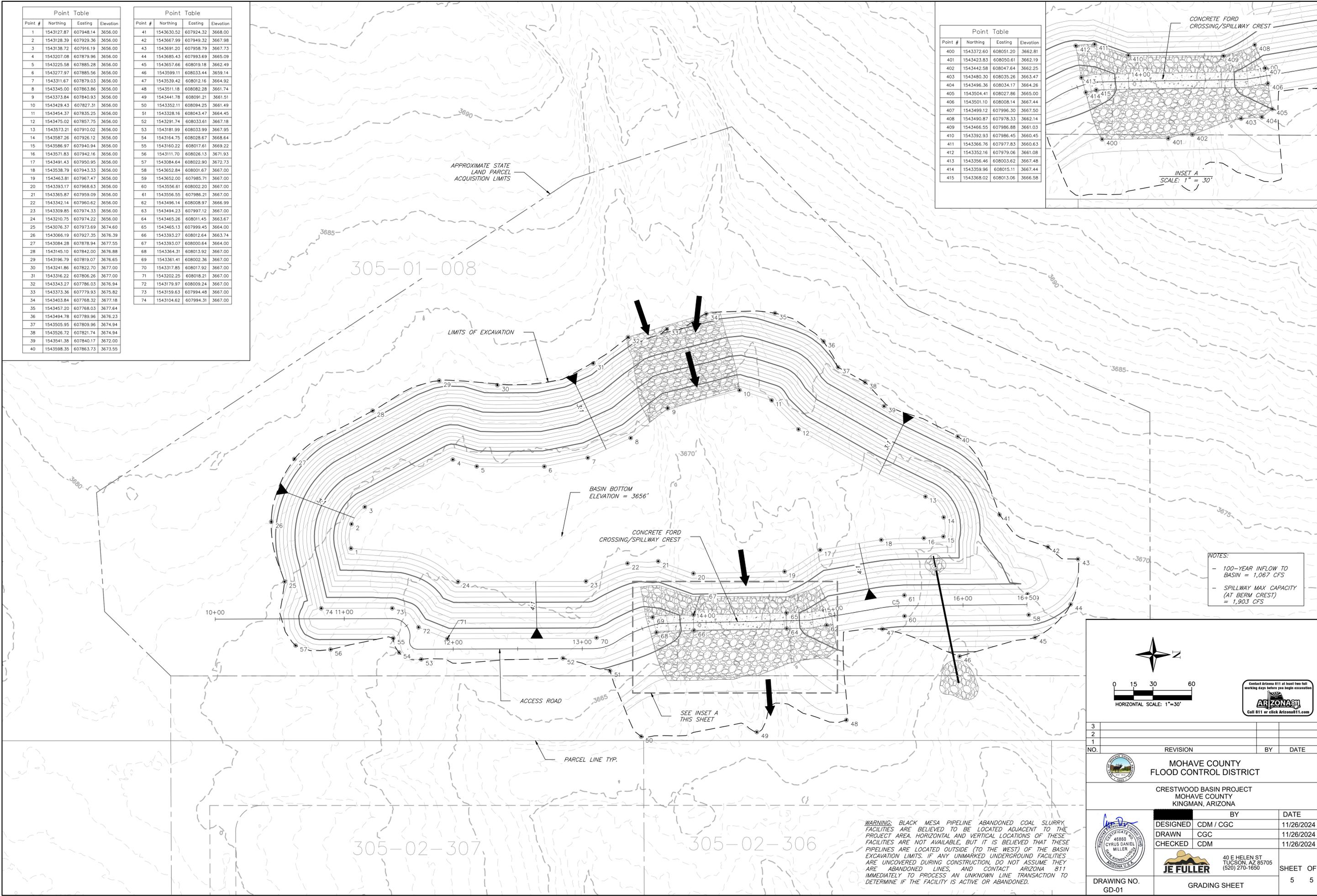
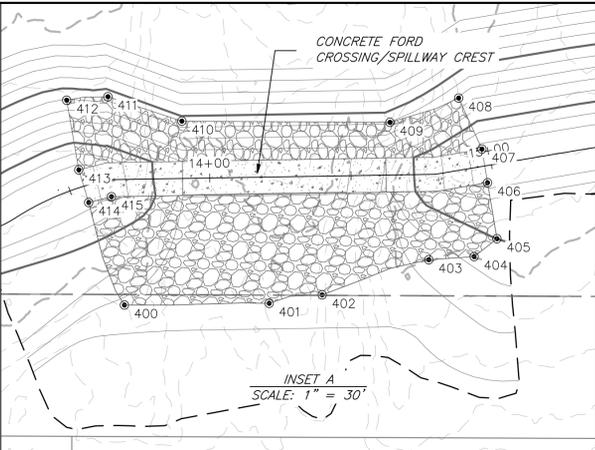
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 PLAN AND PROFILE SHEET  
 SHEET OF 4 5

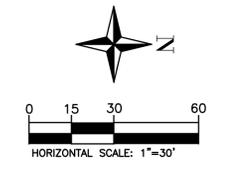
Point #	Northing	Eastng	Elevation
1	1543127.87	607948.14	3656.00
2	1543128.39	607929.36	3656.00
3	1543138.72	607916.19	3656.00
4	1543207.08	607879.96	3656.00
5	1543225.58	607885.28	3656.00
6	1543277.97	607885.56	3656.00
7	1543311.67	607879.03	3656.00
8	1543345.00	607863.86	3656.00
9	1543373.84	607840.93	3656.00
10	1543429.43	607827.31	3656.00
11	1543454.37	607835.25	3656.00
12	1543475.02	607857.75	3656.00
13	1543573.21	607910.02	3656.00
14	1543587.26	607926.12	3656.00
15	1543586.97	607940.94	3656.00
16	1543571.83	607942.16	3656.00
17	1543491.43	607950.95	3656.00
18	1543538.79	607943.33	3656.00
19	1543463.81	607967.47	3656.00
20	1543393.17	607968.63	3656.00
21	1543365.87	607959.09	3656.00
22	1543342.14	607960.62	3656.00
23	1543309.85	607974.33	3656.00
24	1543210.75	607974.22	3656.00
25	1543076.37	607973.69	3674.60
26	1543066.19	607927.35	3676.39
27	1543084.28	607878.94	3677.55
28	1543145.10	607842.00	3676.88
29	1543196.79	607819.07	3676.85
30	1543241.86	607822.70	3677.00
31	1543316.22	607806.26	3677.00
32	1543343.27	607786.03	3676.94
33	1543373.36	607779.93	3675.82
34	1543403.84	607768.32	3677.18
35	1543457.20	607768.03	3677.64
36	1543494.78	607789.96	3676.23
37	1543505.95	607809.96	3674.94
38	1543526.72	607821.74	3674.94
39	1543541.38	607840.17	3672.00
40	1543598.35	607863.73	3673.55

Point #	Northing	Eastng	Elevation
41	1543630.52	607924.32	3668.00
42	1543667.99	607949.32	3667.98
43	1543691.20	607958.79	3667.73
44	1543685.43	607993.69	3665.09
45	1543657.66	608019.18	3662.49
46	1543599.11	608033.44	3659.14
47	1543539.42	608012.16	3664.92
48	1543511.18	608082.28	3661.74
49	1543441.78	608091.21	3661.51
50	1543352.11	608094.25	3661.49
51	1543328.16	608043.47	3664.45
52	1543291.74	608033.61	3667.18
53	1543181.99	608033.99	3667.95
54	1543164.75	608028.67	3668.64
55	1543160.22	608017.61	3669.22
56	1543111.70	608026.13	3671.93
57	1543084.64	608022.90	3672.73
58	1543652.84	608001.67	3667.00
59	1543652.00	607985.71	3667.00
60	1543556.61	608002.20	3667.00
61	1543556.55	607986.21	3667.00
62	1543496.14	608008.97	3666.99
63	1543494.23	607997.12	3667.00
64	1543465.26	608011.45	3663.67
65	1543465.13	607999.45	3664.00
66	1543393.27	608012.64	3663.74
67	1543393.07	608000.64	3664.00
68	1543364.31	608013.92	3667.00
69	1543361.41	608002.36	3667.00
70	1543317.85	608017.92	3667.00
71	1543202.25	608018.21	3667.00
72	1543179.97	608009.24	3667.00
73	1543159.63	607994.48	3667.00
74	1543104.62	607994.31	3667.00

Point #	Northing	Eastng	Elevation
400	1543372.60	608051.20	3662.81
401	1543423.83	608050.61	3662.19
402	1543442.58	608047.64	3662.25
403	1543480.30	608035.26	3663.47
404	1543496.36	608034.17	3664.26
405	1543504.41	608027.86	3665.00
406	1543501.10	608008.14	3667.44
407	1543499.12	607996.30	3667.50
408	1543490.87	607978.33	3662.14
409	1543466.55	607986.88	3661.03
410	1543392.93	607986.45	3660.45
411	1543366.76	607977.83	3660.63
412	1543356.16	607979.06	3661.08
413	1543356.46	608003.62	3667.48
414	1543359.96	608015.11	3667.44
415	1543368.02	608013.06	3666.58



NOTES:  
 - 100-YEAR INFLOW TO BASIN = 1,067 CFS  
 - SPILLWAY MAX CAPACITY (AT BERM CREST) = 1,903 CFS



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GRADING SHEET

SHEET OF 5 5

WARNING: BLACK MESA PIPELINE ABANDONED COAL SLURRY FACILITIES ARE BELIEVED TO BE LOCATED ADJACENT TO THE PROJECT AREA. HORIZONTAL AND VERTICAL LOCATIONS OF THESE FACILITIES ARE NOT AVAILABLE, BUT IT IS BELIEVED THAT THESE PIPELINES ARE LOCATED OUTSIDE (TO THE WEST) OF THE BASIN EXCAVATION LIMITS. IF ANY UNMARKED UNDERGROUND FACILITIES ARE UNCOVERED DURING CONSTRUCTION, DO NOT ASSUME THEY ARE ABANDONED LINES, AND CONTACT ARIZONA 811 IMMEDIATELY TO PROCESS AN UNKNOWN LINE TRANSACTION TO DETERMINE IF THE FACILITY IS ACTIVE OR ABANDONED.