

ATTENTION: These documents are provided for informational purposes. They provide standard configurations, general requirements, and guidelines for trenching and standard customer interconnections for APS customers. These documents do not address every possible situation. It is the responsibility of the customer to ensure that the documents provided here are the most current version. APS reserves the rights to require modifications based on site specific or system conditions.



ARIZONA PUBLIC SERVICE COMPANY
T&D CONSTRUCTION STANDARDS

BY	LDR.	MGR.	DATE	REV.
MLM	M. CAM	J.M. HORMELL	06/2020	9

**SUBSTRUCTURES
FRAME, COVER AND GRADE
RINGS FOR 36-INCH MANHOLE ENTRY**

COVER

8695

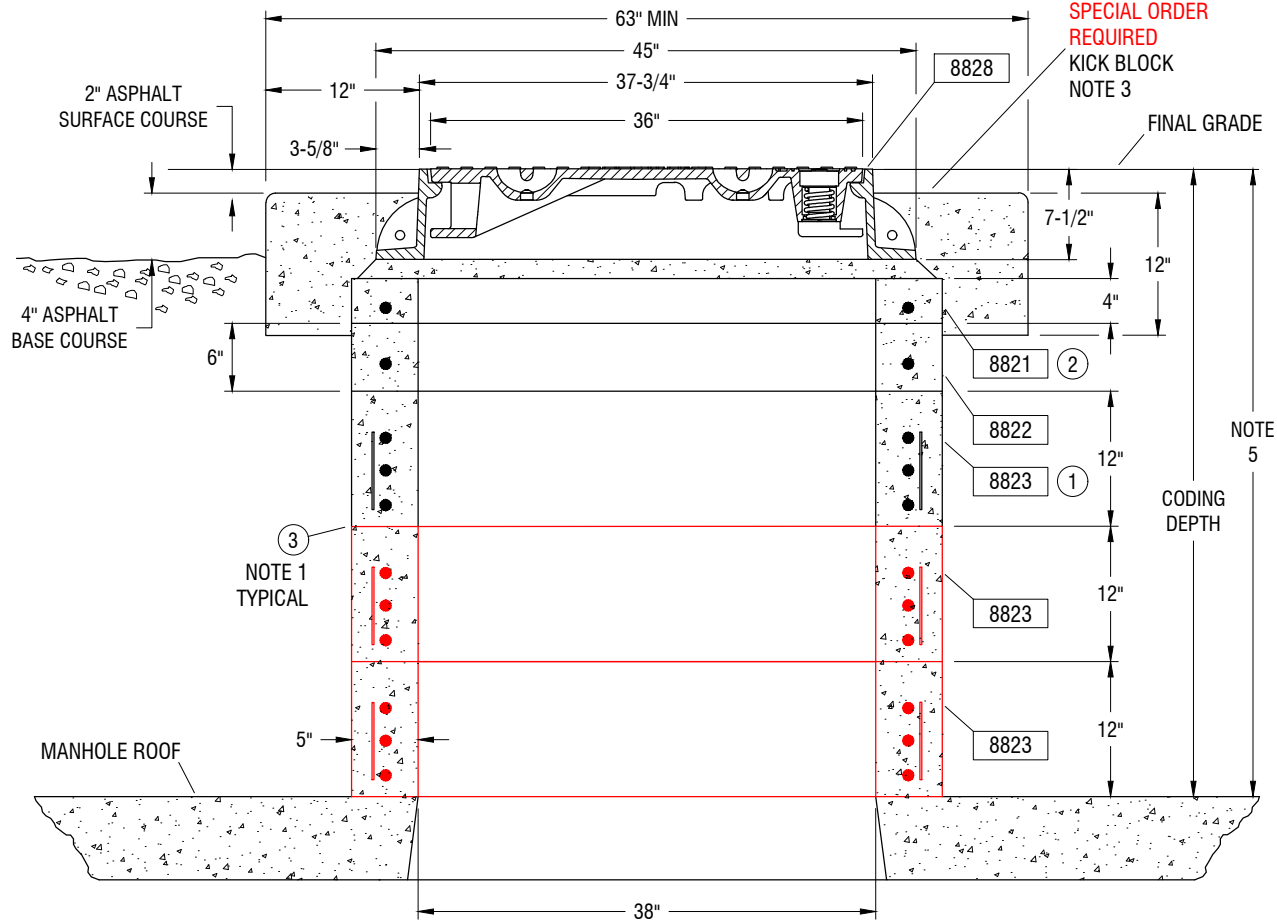
8695. A

SEE NOTE 6

REFER TO ADJACENT PAGE
FOR REQUIRED CODE CHARACTERS

CONSTANT

**SPECIAL ORDER
REQUIRED
KICK BLOCK
NOTE 3**



NOTES:

- USE SUFFICIENT PREFORMED BUTYL JOINT SEALER APN 00104055 UNIT OF MEASURE IS 11-FOOT ROLL. CLEAN JOINT SURFACES WITH A BRUSH AND ENSURE JOINTS ARE DRY. FIRMLY PRESS JOINT SEALER ONTO SURFACE, END-TO-END AROUND THE ENTIRE JOINT. ALLOW 1-INCH OVERLAPS WHEN ABUTTING.
- INSTALL CAST-IRON FRAME TO WITHIN 1/8-INCH OF FINAL GRADE. A DEPRESSION IN ROADWAY IS PREFERABLE TO A PROJECTION (BUMP) ABOVE FINAL GRADE.
- A 12-INCH CONCRETE KICK BLOCK SURROUNDING THE CONVERSION RING AND STEEL FRAME WITH COVER IS REQUIRED. THE CONCRETE SHALL HAVE A MINIMUM RATING OF 2000 PSI AT 24 HOURS (COMPRESSIVE TESTING PER ASTM C39). THE CONCRETE MAY BE 4000 PSI AT 28 DAYS (2000 PSI AT 72 HOURS) IF QUICK SET-UP IS NOT REQUIRED. THE CONCRETE IS NOT PROVIDED BY THIS STANDARD.
- GROUT SHALL BE 2500 PSI AT 24 HOURS. ONE 50 LB PAIL OF GROUT IS PROVIDED WITH MANHOLE STANDARDS 8680 AND 8690. A 2-INCH TO 6-INCH ELEVATION ADJUSTMENT MAY BE PREFORMED AS SPECIFIED ON 8810 THROUGH 8816.
- THE STANDARD MINIMUM COVER ABOVE THE MANHOLE ROOF SHALL BE PER 8606 AND 8610. MAXIMUM COVER SHALL BE 11 FEET.
- ONE 6-INCH AND TWO 12-INCH GRADE RINGS WITH SEALER AND STEPS, PLUS THE STEEL FRAME, CAST IRON MANHOLE COVER, AND FAST-CRETE ARE PROVIDED WITH MANHOLE STANDARDS 8680 AND 8690. THIS STANDARD 8695 PROVIDES ANY ADDITIONAL MATERIAL NEEDED WHEN THE DEPTH IS 37 INCHES OR GREATER.
- SEE 8826 FOR FRAME AND COVER DETAILS.
- SEE 8865 FOR MANHOLE LADDER DETAILS.
- SEE 8601 FOR PROPER BACKFILL AND COMPACTION DETAILS.
- SEE 8680 AND 8690 FOR MANHOLE DETAILS.

CODE	8695	MATERIAL LIST	
ITEM	QTY	DESCRIPTION	APN
1	VAR	GRADE RING 12"	32902562
2	VAR	GRADE RING 4"	32902566
3	VAR	GRADE RING SEALER	00104055
4	VAR	STEP HOT DIP GALV.	00052071

CODE	DEPTH	CODE	DEPTH	CODE	DEPTH	CODE	DEPTH
*	-	61	61"	86	86"	111	111"
37	37"	62	62"	87	87"	112	112"
38	38"	63	63"	88	88"	113	113"
39	39"	64	64"	89	89"	114	114"
40	40"	65	65"	90	90"	115	115"
41	41"	66	66"	91	91"	116	116"
42	42"	67	67"	92	92"	117	117"
43	43"	68	68"	93	93"	118	118"
44	44"	69	69"	94	94"	119	119"
45	45"	70	70"	95	95"	120	120"
46	46"	71	71"	96	96"	121	121"
47	47"	72	72"	97	97"	122	122"
48	48"	73	73"	98	98"	123	123"
49	49"	74	74"	99	99"	124	124"
50	50"	75	75"	100	100"	125	125"
51	51"	76	76"	101	101"	126	126"
52	52"	77	77"	102	102"	127	127"
53	53"	78	78"	103	103"	128	128"
54	54"	79	79"	104	104"	129	129"
55	55"	80	80"	105	105"	130	130"
56	56"	81	81"	106	106"	131	131"
57	57"	82	82"	107	107"	132	132"
58	58"	83	83"	108	108"		
59	59"	84	84"	109	109"		
60	60"	85	85"	110	110"		

* THE MINIMUM COVER OVER M.H. IS 20 INCHES BECAUSE THE HOOK STYLE LADDER LENGTH REQUIRES A MINIMUM 12-INCH GRADE RING WITH STEP. NOTIFY T&D ENGINEERING AND STANDARDS DEPT. FOR SPECIAL LADDER/STEP DESIGNS WHERE MANHOLE HAS LESS THAN 20 INCHES COVER.



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