

# VAULT AND MANHOLE REQUIREMENTS (PRECAST)

# UGS

REVISION: Updated Notes, Added Approved Manufacture P/N & Revision No. to Table

CHECKED BY (ENGINEERING): SJ DATE: 04/17/17

CHECKED BY (FIELD): RJ

PREPARED BY: SJR


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### GENERAL

Acceptable precast vaults and manholes are listed in the schedules below. Other equal units may be used if prior Department approval is obtained. Include accessories and facilities in each structure in conformance with the requirements set forth on the drawings and in the specifications and schedules referred to below. Small variations in construction of units have been allowed for different manufacturers.

1. Concrete Reinforcement Shall be in conformance with..... UGS-016
2. Duct Entrance..... UGS-110
3. Inserts..... UGS-202, UGS-205 & UGS-205.1 & UGS-206
4. Sump..... UGS-215
5. Ground Rods and Wires..... UGS-225
6. Vents..... UGS-230 thru UGS-239
7. Ladder..... UGS-240
8. Structure Details..... See Table Below

Item No.	Nominal Size (Depth x Width x Height)	Precast Concrete Manufactures				Structure Details	Installation Details
		Jensen		Oldcastle			
		Approved Mfg. Dwg #s	Rev.	Approved Mfg. Dwg #s	Rev.		
1	4' x 6' 6" x 5' PJC	K466-FV60-21	△ I	070-XB19-291-001	A		
2	4' x 6' 6" x 7' PJC	K466-FV84-21	△ H	070-XB19-292-001	A	UGS-005.1	UGS-461
3	4' x 6' 6" x 9'6" PJC	K466-FV114-21	△ H	070-XB19-293-001	A		
4	5' x 10' 6" x 7' PMH	K5106-PMH84-21	D	070-XB19-298-001	△ A	UGS-005.2	
5	5' x 10' 6" x 9'6" PMH	K5106-PMH114-21	△ E	070-XB19-299-001	△ A		
6	5' x 10' 6" x 7' PME (Right Opening)	K5106-PME84-R83-21	△ J	070-XB19-300-001	△ A	UGS-005.3	UGS-463
7	5' x 10' 6" x 7' PME (Left Opening)	K5106-PME84-L83-21	△ J	070-XB19-301-001	△ A		
8	5' x 10' 6" x 9'6" PME (Right Opening)	K5106-PME114-R83-21	H	070-XB19-302-001	△ A	UGS-005.4	
9	5' x 10' 6" x 9'6" PME (Left Opening)	K5106-PME114-L83-21	G	070-XB19-303-001	△ A		
10	6' x 10' x 7' Manhole	<del>K610-FM84-21</del>	<del>△</del>	<del>070-XB19-310-001</del>	<del>△ A</del>		
11	6' x 12' x 7' Manhole	K612-FM84-21	△ E	070-XB19-319-001	△ A	UGS-005.5	UGS-435
12	7' x 14' x 8' Manhole	<del>K714-FM96-21</del>	<del>△</del>	<del>070-XB19-320-001</del>	<del>△ A</del>		
13	6' x 12' x 7' Vault	K612-FV84-21	D	070-XB19-321-001	△ A		
14	7' x 14' x 8' Vault	<del>K714-FV96-21</del>	<del>D</del>	<del>070-XB19-322-001</del>	<del>△ A</del>		
15	8' x 14' x 9' 4" Vault	K814-FV112-21	B	070-XB19-323-001	△ A	UGS-005.6	UGS-541
16	8' x 16' x 9' 4" Vault	K816-FV112-21	D	070-XB19-324-001	△ A		
17	8' x 20' x 9' 4" Transmission Vault	K820-FV112-21	B	070-XB19-325-001	△ A		
18	Ø30" x 12" Manhole Neck, Frame & Cover *	K36-MN14-21T	-	070-XB19-295-001	△ A		
-	12" Cone/Neck Section	MN36-N12		070-XB19-295-003	△ A		
-	3" Manhole Riser Ring Section	MN36-R3		070-XB19-295-004	△ A	UGS-062	UGS-435
-	6" Manhole Riser Ring Section	MN36-R6		070-XB19-295-005	△ A		
-	12" Manhole Riser Ring Section	MN36-R12		070-XB19-295-006	△ A		
19	4' x 5' Vault Neck, Cover Section with Cover *	K45-VN12-21	-	070-XB19-335-001	△ A		
-	12" Neck Section	VN45-N12-056		070-XB19-335-003	△ A	UGS-053	UGS-541
-	6" Vault Riser Section	VN45-R6		070-XB19-335-004	△ A		
-	12" Vault Riser Section	VN45-R12		070-XB19-335-005	△ A		

Shaded Items  are Obsolete / for reference only or pending approval (RPU T&D Supervisor approval required for use).  
 \* Specify Riser Height, and quantity when ordering; limit of cover over roof section is 1'-6" to 4'-0".

Notes: △

1. Manufactures wall & top section thickness, terminator & pull iron locations may slightly vary; verify all dimensions on RPU Approved manufacture drawing (Latest Revision) when ordering for proper conduit layout & trench clearances. See RPU Material Spec.1-4.11 for approved manufacture specifications.
2. All interior surfaces shall be painted with one coat of flat white latex paint.
3. Structures to be stenciled with Manufactures Name, Part No, Date of Pour & Weight on interior & exterior of concrete structure.
4. All Cast-in unistruts (1-5/8 x 1-5/8) shall be flush to wall & cut to specified lengths.
5. Joints between precast sections shall be self centering and make a uniform watertight joint with manufacture provided 7/8" x 1-3/4" x Required Length" gasket when assembled.
6. Do not backfill until precast structure has been completely assembled & inspected by RPU field inspector.