

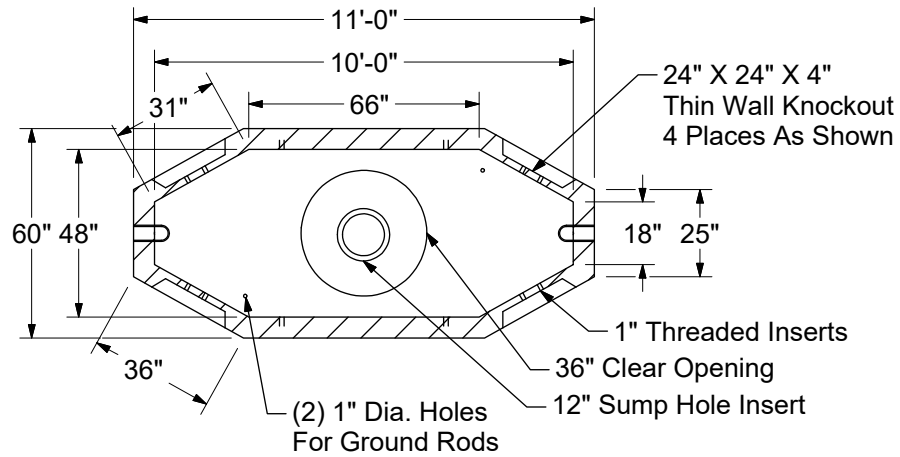


UNDERGROUND STRUCTURES

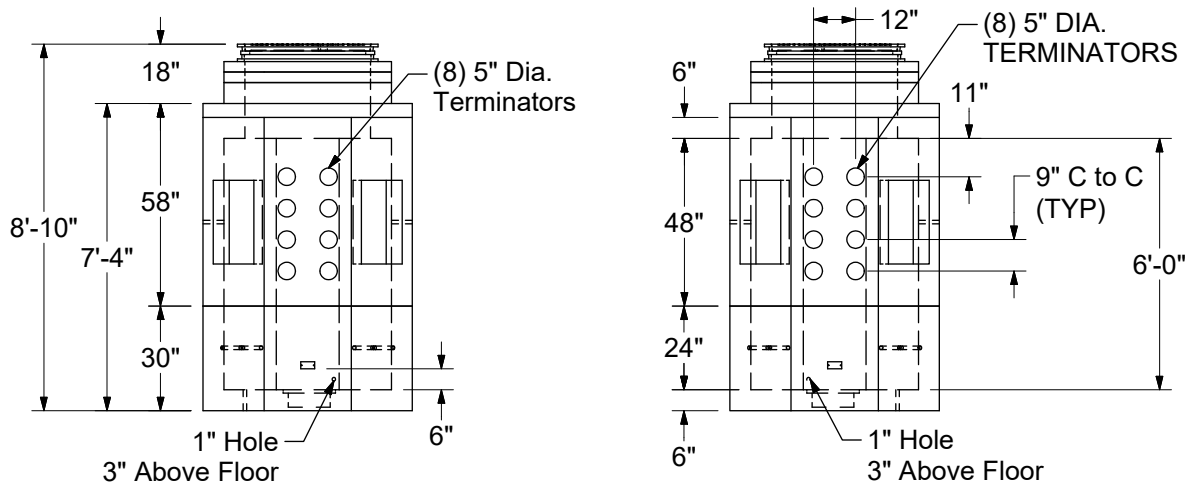
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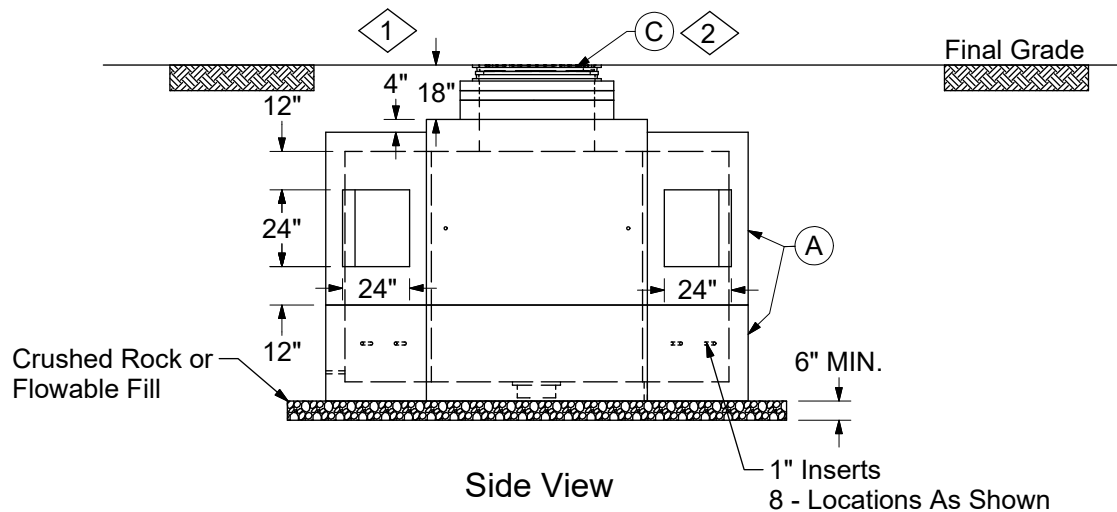
PRECAST MANHOLE - 6'-0" X 17'-6" X 7'-0".....	32 21 01 **
PRECAST MANHOLE - 4'-0" X 10'-0" X 6'-0".....	32 21 02 **
PRECAST MANHOLE - 6'-0" X 14'-0" X 7'-0".....	32 21 03 **
PRECAST MANHOLE - 6'-0" X 12'-0" X 7'-0" (TYPE 38Y - ROOF A).....IL ONLY.....	32 21 04 **
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Top View



End Views



Side View



UNDERGROUND STRUCTURES

Precast Manhole
4'-0" X 10'-0" X 6'-0"

32 21 02 **

2 of 2

CONSTRUCTION NOTE(s):

1. Preferred setting depth is 18" as shown. Minimum setting depth is 12" and maximum is 60".
2. Preferred collar configuration is one 6" and two 3" for 12" thickness. The 3" necks are required on all manholes and shall be the top two collars. Add the required necks so that frame and cover are at final grade. 3" thick collar is Stock #12 06 062 and 6" thick collar is Stock #12 06 063.
3. Weights are as follows: Top Section - 13,200 lbs., Base Section - 7,350 lbs., Total - 20,550 lbs.

DCS #	DESCRIPTION
32 21 02 01	18" Setting Depth
32 21 02 02	60" Setting Depth

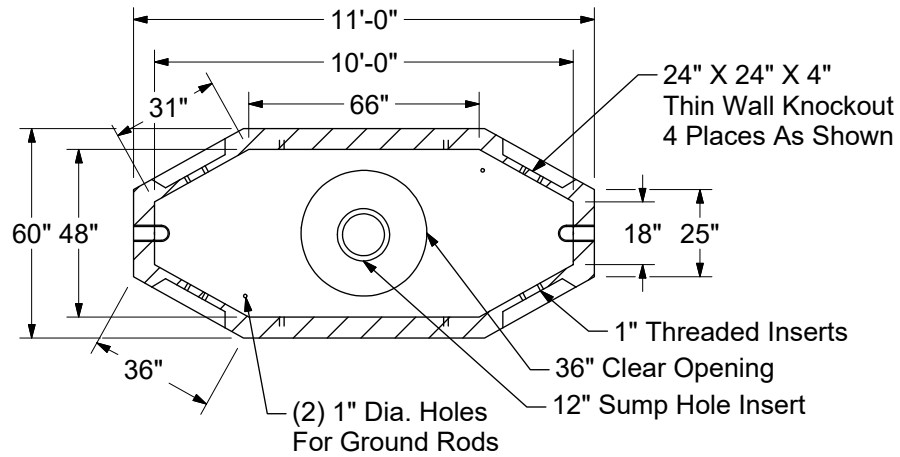
ITEM	STK / DCS #	DESCRIPTION	32 21 02 **	01	02
A	12 06 231	Manhole - Top, Precast Concrete		1	1
	12 06 232	Manhole - Bottom, Precast Concrete		1	1
B	98 00 006	Concrete - 2 Sack (c.y.)		4	4
C	33 12 01 01	Frame and Cover 36" Dia. x 18" Deep		1	-
	33 12 01 02	Frame and Cover 36" Dia. x 60" Deep		-	1
D	19 04 327	Grate - 14"		1	1
E	33 11 ** **	Wingwall Bays		#	#
F	98 00 014	Crushed Rock (c.y.)		2/3	2/3
G	12 53 017	Shield, Duct, 3" thru 6"		4	4
6 H	12 56 113	Cable Mounting Arm - 14"		#	#
6 I	12 56 112	Cable Mounting Arm - 18"		#	#
6 J	12 56 114	Cable Mounting Arm - 7-1/2"		#	#
6 K	12 56 125	J Hook - 5"		#	#
L	33 20 02 01	Grounding System, 4' x 10' Manhole		1	1
@		Op Code, Excavation (Mach.) (c.y.)		18	27
@		Op Code, Backfilling (Mach.) (c.y.)		4	11
@		Op Code, Tamping (s.f.)		70	70
@		Op Code, Surface Removal (s.f.)		70	70
@		Op Code, Surface Replacement (s.f.)		70	70
@		Op Code, Loading Out (c.y.)		#	#

DESIGN NOTE(s):

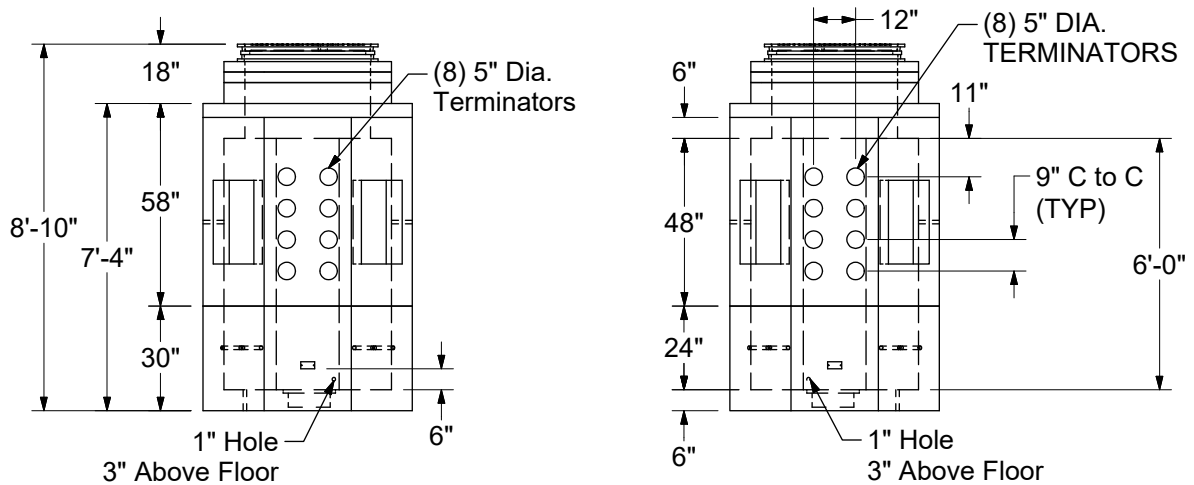
4. 2.45 Cubic yards of dirt removed per foot of excavation.
5. Add the required number of 6" concrete (Stock #12 06 063) and 3" concrete (Stock #12 06 062) necks so that the frame and cover are at final grade.
6. Manholes are equipped with the cable mounting racks. Add the required number of cable mounting arms to suspend the installed cables.
7. Traffic Rated Design - H-20 16,000 pounds wheel load.

DISTRIBUTION CONSTRUCTION STANDARDS

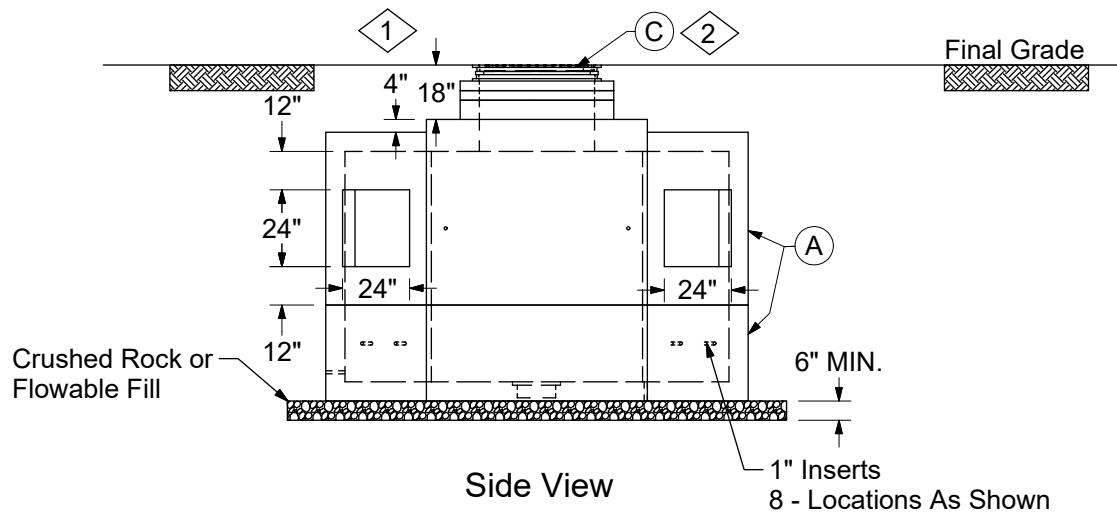
REV	DATE	ENG	DESCRIPTION
9	04/01/25	EJB	Correct Item L
8	01/01/24	JMW	Converted to new format



Top View



End Views



Side View



UNDERGROUND STRUCTURES

Precast Manhole
4'-0" X 10'-0" X 6'-0"

32 21 02 **

2 of 2

CONSTRUCTION NOTE(s):

1. Preferred setting depth is 18" as shown. Minimum setting depth is 12" and maximum is 60".
2. Preferred collar configuration is one 6" and two 3" for 12" thickness. The 3" necks are required on all manholes and shall be the top two collars. Add the required necks so that frame and cover are at final grade. 3" thick collar is Stock #12 06 062 and 6" thick collar is Stock #12 06 063.
3. Weights are as follows: Top Section - 13,200 lbs., Base Section - 7,350 lbs., Total - 20,550 lbs.

DCS #	DESCRIPTION
32 21 02 01	18" Setting Depth
32 21 02 02	60" Setting Depth

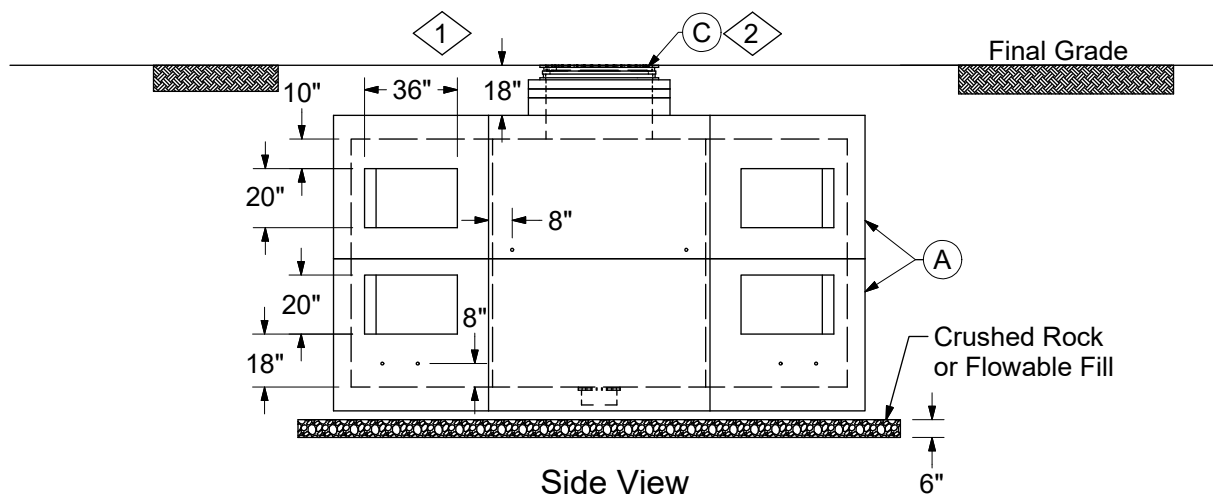
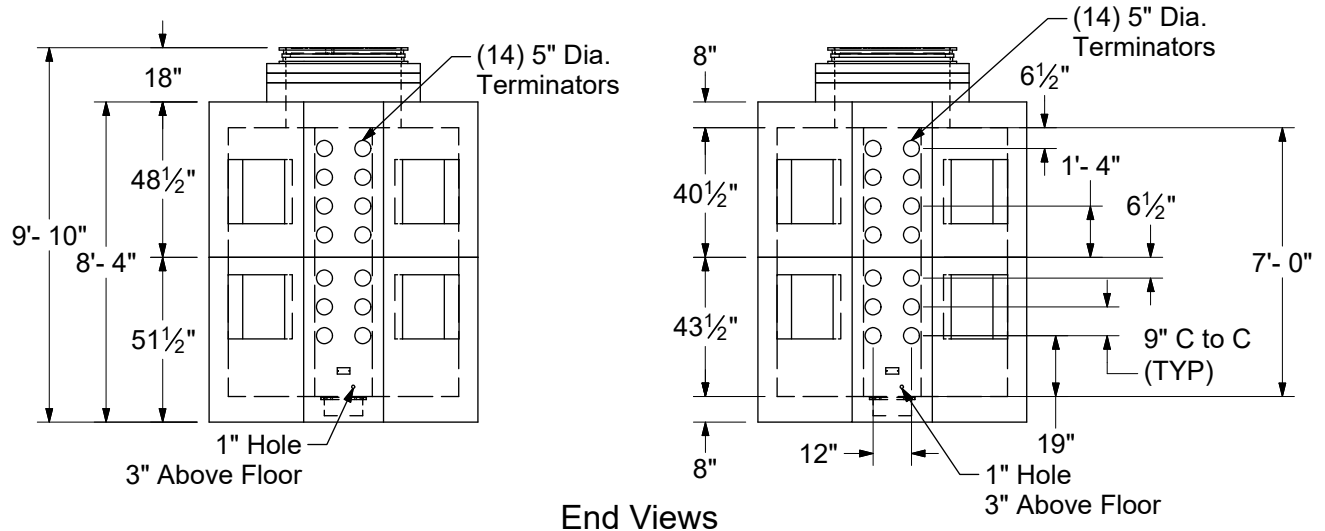
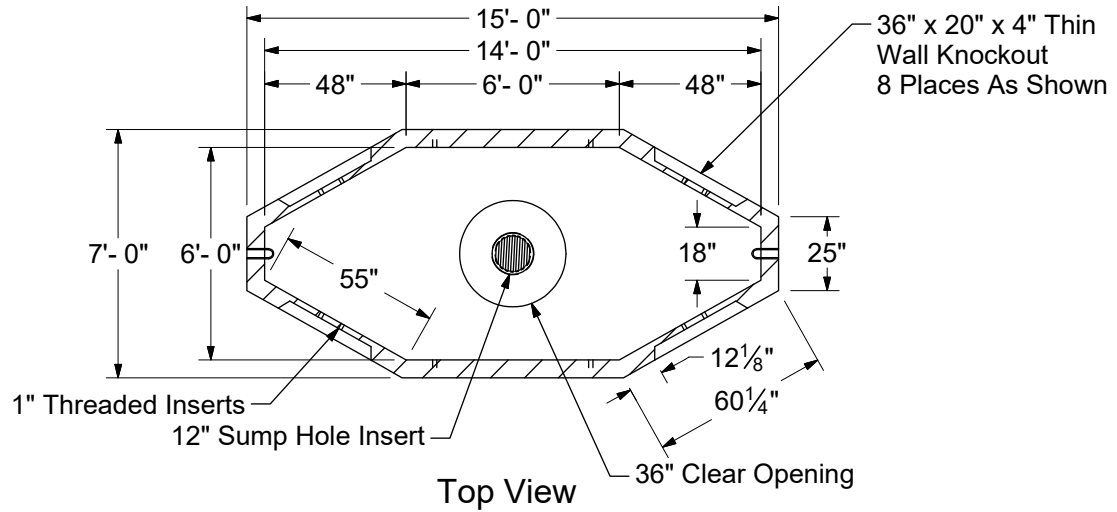
ITEM	STK / DCS #	DESCRIPTION	32 21 02 **	01	02
A	12 06 231	Manhole - Top, Precast Concrete		1	1
	12 06 232	Manhole - Bottom, Precast Concrete		1	1
B	98 00 006	Concrete - 2 Sack (c.y.)		4	4
C	33 12 01 01	Frame and Cover 36" Dia. x 18" Deep		1	-
	33 12 01 02	Frame and Cover 36" Dia. x 60" Deep		-	1
D	19 04 327	Grate - 14"		1	1
E	33 11 ** **	Wingwall Bays		#	#
F	98 00 014	Crushed Rock (c.y.)		2/3	2/3
G	12 53 017	Shield, Duct, 3" thru 6"		4	4
6 H	12 56 113	Cable Mounting Arm - 14"		#	#
6 I	12 56 112	Cable Mounting Arm - 18"		#	#
6 J	12 56 114	Cable Mounting Arm - 7-1/2"		#	#
6 K	12 56 125	J Hook - 5"		#	#
L	32 20 02 01	Grounding System, 4' x 10' Manhole		1	1
@		Op Code, Excavation (Mach.) (c.y.)		18	27
@		Op Code, Backfilling (Mach.) (c.y.)		4	11
@		Op Code, Tamping (s.f.)		70	70
@		Op Code, Surface Removal (s.f.)		70	70
@		Op Code, Surface Replacement (s.f.)		70	70
@		Op Code, Loading Out (c.y.)		#	#

DESIGN NOTE(s):

4. 2.45 Cubic yards of dirt removed per foot of excavation.
5. Add the required number of 6" concrete (Stock #12 06 063) and 3" concrete (Stock #12 06 062) necks so that the frame and cover are at final grade.
6. Manholes are equipped with the cable mounting racks. Add the required number of cable mounting arms to suspend the installed cables.
7. Traffic Rated Design - H-20 16,000 pounds wheel load.

DISTRIBUTION CONSTRUCTION STANDARDS

REV	DATE	ENG	DESCRIPTION
8	01/01/24	JMW	Converted to new format
7	12/12/12	DDG	





UNDERGROUND STRUCTURES

Precast Manhole
6'-0" X 14'-0" X 7'-0"

32 21 03 **

2 of 2

CONSTRUCTION NOTE(s):

1. Preferred setting depth is 18" as shown. Minimum setting depth is 12" and maximum is 60".
2. Preferred collar configuration is one 6" and two 3" for 12" thickness. The 3" necks are required on all manholes and shall be the top two collars. Add the required necks so that frame and cover are at final grade. 3" thick collar is Stock #12 06 062 and 6" thick collar is Stock #12 06 063.
3. Weights are as follows: Top Section - 19,798 lbs., Base Section - 20,526 lbs., Total - 40,324 lbs.

DCS #	DESCRIPTION
32 21 03 01	18" Setting Depth
32 21 03 02	60" Setting Depth

	ITEM	STK / DCS #	DESCRIPTION	32 21 03 **	01	02
	A	12 06 233	Manhole - Top, Precast Concrete		1	1
		12 06 234	Manhole - Bottom, Precast Concrete		1	1
	B	98 00 006	Concrete - 2 Sack (c.y.)		8	8
	C	33 12 01 01	Frame and Cover 36" Dia. x 18" Deep		1	-
		33 12 01 02	Frame and Cover 36" Dia. x 60" Deep		-	1
	D	19 04 327	Grate - 14"		1	1
	E	33 11 ** **	Wingwall Bays		#	#
	F	98 00 014	Crushed Rock (c.y.)		1	1
	G	12 53 017	Shield, Duct, Cable		12	12
6	H	12 56 112	Cable Mounting Arm - 18"		#	#
6	I	12 56 113	Cable Mounting Arm - 14"		#	#
6	J	12 56 114	Cable Mounting Arm - 7-1/2"		#	#
6	K	12 56 125	J Hook - 5"		#	#
	L	33 20 02 02	Grounding System, 6' x 14'		1	1
@			Op Code, Excavation (Mach.) (c.y.)		40	53
@			Op Code, Backfilling (Mach.) (c.y.)		9	24
@			Op Code, Tamping (s.f.)		99	99
@			Op Code, Surface Removal (s.f.)		99	99
@			Op Code, Surface Replacement (s.f.)		99	99
@			Op Code, Loading Out (c.y.)		#	#

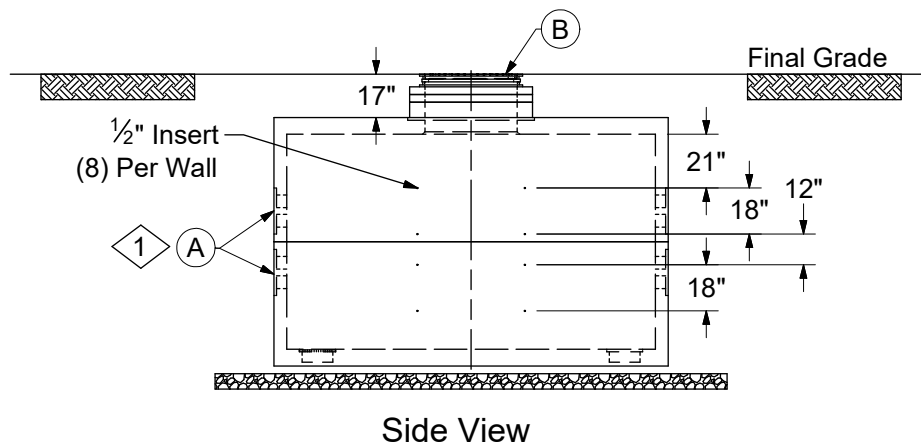
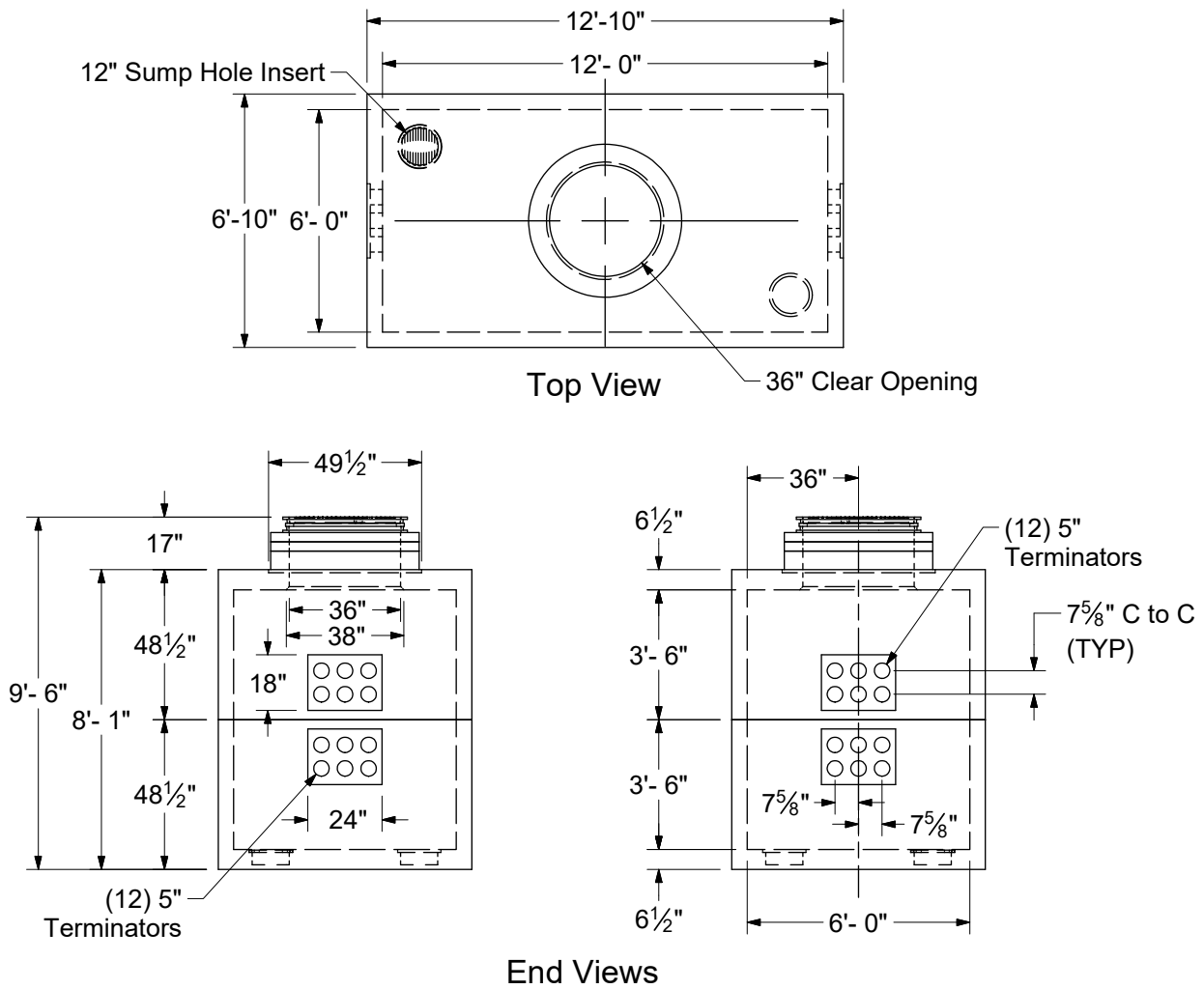
DESIGN NOTE(s):

4. 5.32 Cubic yards of dirt removed per foot of excavation.
5. Add the required number of 6" concrete (Stock #12 06 063) and 3" concrete (Stock #12 06 062) necks so that the frame and cover are at final grade.
6. Manholes are equipped with the cable mounting racks. Add the required number of cable mounting arms to suspend the installed cables.
7. Traffic Rated Design - H-20 16,000 pounds wheel load.

DISTRIBUTION CONSTRUCTION STANDARDS

REV	DATE	ENG	DESCRIPTION
11	01/01/24	JMW	Converted to new format
10	04/23/14	EJB	

ILLINOIS ONLY





UNDERGROUND STRUCTURES

Precast Manhole
6'-0" x 12'-0" (Type 38Y- Roof A)

32 21 04 **

2 of 2

CONSTRUCTION NOTE(s):

1. Weights are as follows: Top Section - 14,375 lbs., Bottom Section - 15,075 lbs., Total 29,450 lbs.

DCS #	DESCRIPTION
32 21 04 01	5-5/8" Setting Depth
32 21 04 02	10" Setting Depth

1	ITEM	STK / DCS #	DESCRIPTION	32 21 04 **	01	02
	A	12 06 223	Manhole - Top, Precast Concrete (Type 38Y- Roof A)		1	1
		12 06 224	Manhole - Bottom, Precast Concrete (Type 38Y- Roof A)		1	1
	B	33 12 02 01	Manhole Frame and Cover - 32" Dia. x 5-5/8" Deep		1	-
		33 12 02 02	Manhole Frame and Cover - 32" Dia. x 10" Deep		-	1

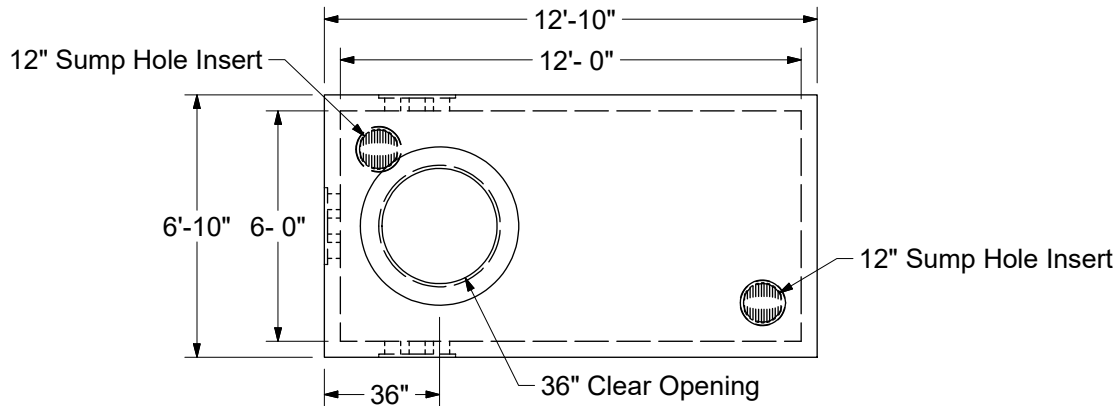
DESIGN NOTE(s):

2. Traffic Rated Design - H-20 16,000 pounds wheel load.

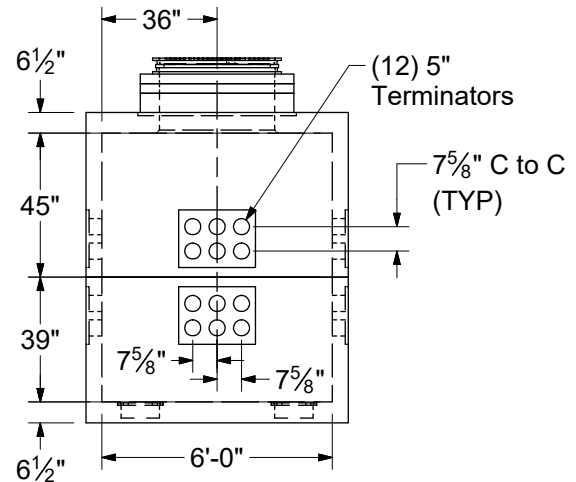
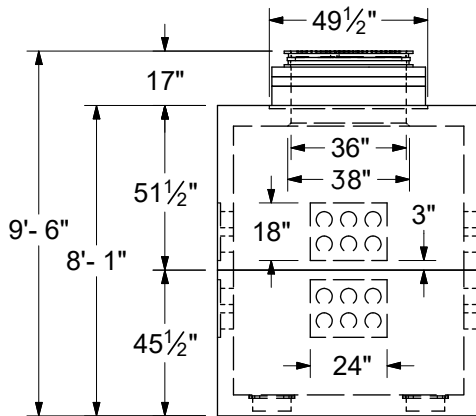
DISTRIBUTION CONSTRUCTION STANDARDS

REV	DATE	ENG	DESCRIPTION
3	01/01/24	JMW	Converted to new format
2	12/12/12	DDG	

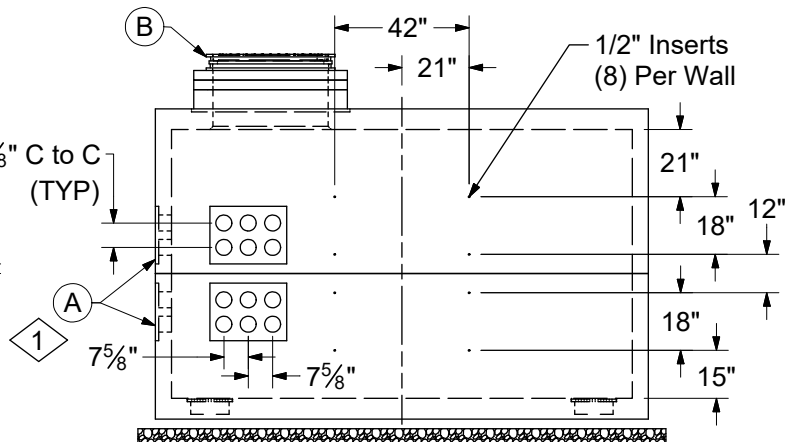
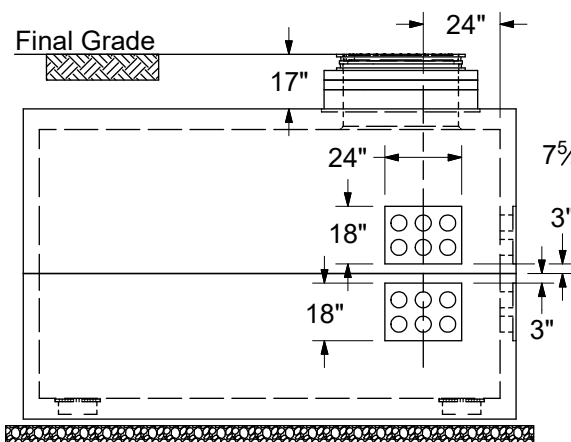
ILLINOIS ONLY



Top View



End Views



Side Views



UNDERGROUND STRUCTURES

Precast Manhole
6'-0" x 12'-0" (Type 38Y- J4 Roof A)

32 21 05 **

2 of 2

CONSTRUCTION NOTE(s):

1. Weights are as follows: Top Section - 14,375 lbs., Bottom Section - 15,075 lbs., Total - 29,450 lbs.

DCS #	DESCRIPTION
32 21 05 01	5-5/8" Setting Depth
32 21 05 02	10" Setting Depth

	ITEM	STK / DCS #	DESCRIPTION	32 21 05 **	01	02
1	A	12 06 225	Manhole - Top, Precast Concrete (Type 38Y- J4 Roof A)		1	1
		12 06 226	Manhole - Bottom, Precast Concrete (Type 38Y- J4 Roof A)		1	1
	B	33 12 02 01	Manhole Frame and Cover - 32" Dia. x 5-5/8" Deep		1	-
		33 12 02 02	Manhole Frame and Cover - 32" Dia. x 10" Deep		-	1

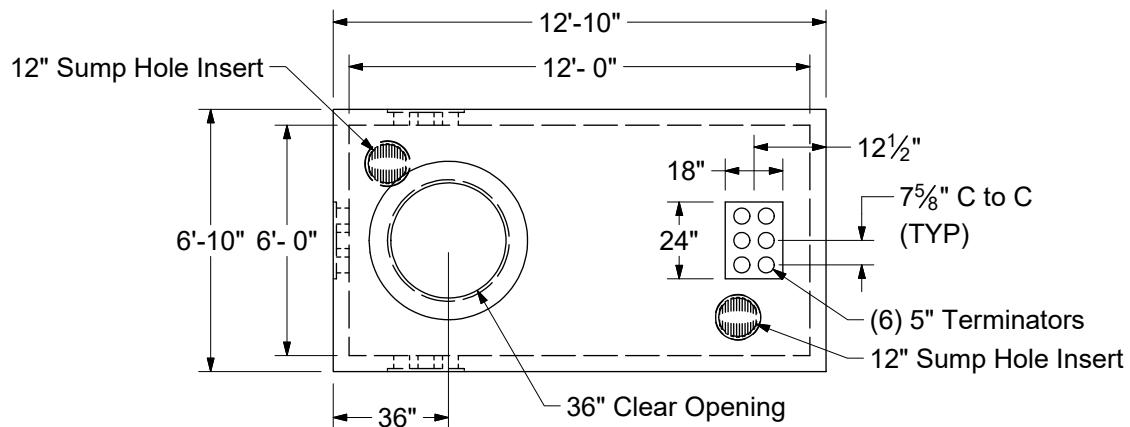
DESIGN NOTE(s):

2. Traffic Rated Design - H-20 16,000 pounds wheel load.

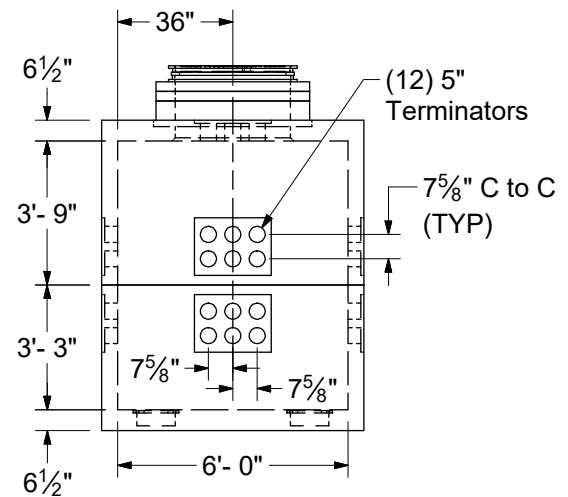
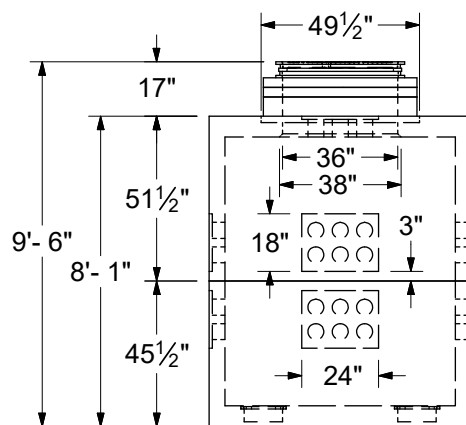
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REV	DATE	ENG	DESCRIPTION
3	01/01/24	JMW	Converted to new format
2	12/12/12	DDG	

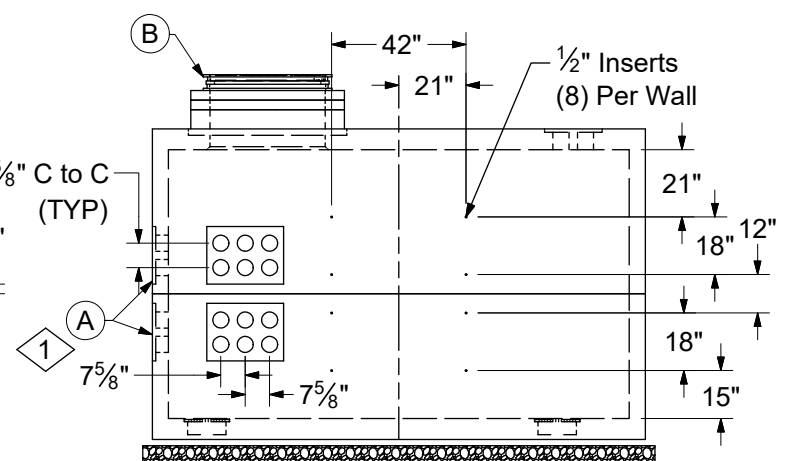
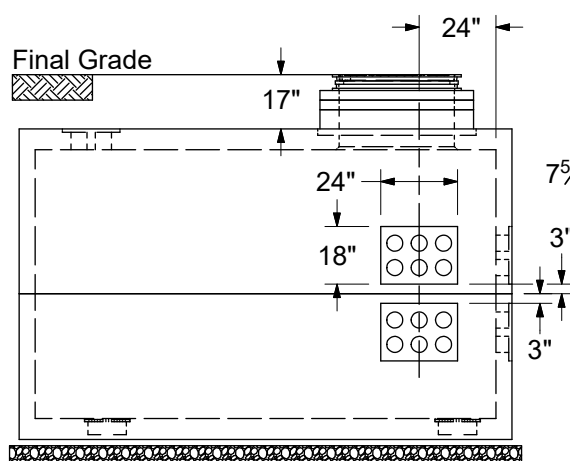
ILLINOIS ONLY



Top View



End Views



Side Views

REV	DATE	ENG	DESCRIPTION
3	01/01/24	JMW	Converted to new format
2	12/12/12	DDG	



UNDERGROUND STRUCTURES

Precast Manhole
6'-0" X 12'-0" (Type 38Y- J4 Roof D)

32 21 06 **

2 of 2

CONSTRUCTION NOTE(s):

1. Weights are as follows: Top Section - 14,375 lbs., Bottom Section - 15,075 lbs., Total - 29,450 lbs.

DCS #	DESCRIPTION
32 21 06 01	5-5/8" Setting Depth
32 21 06 02	10" Setting Depth

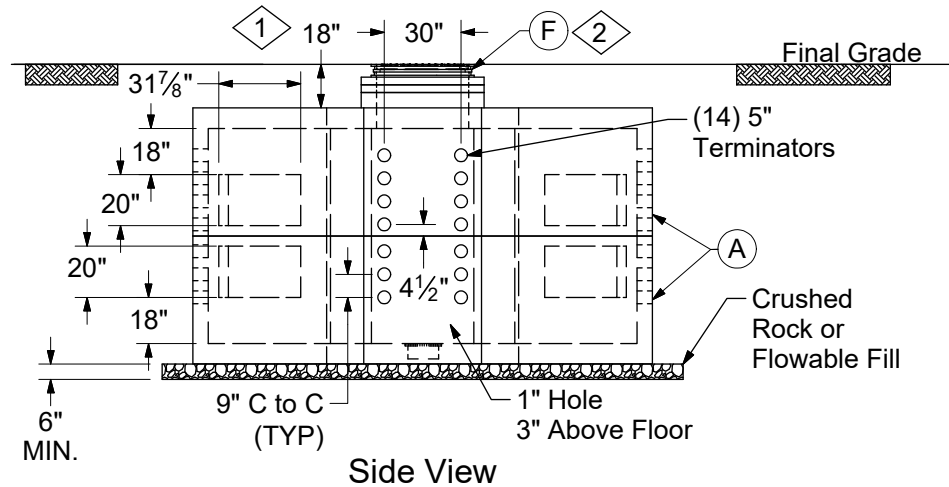
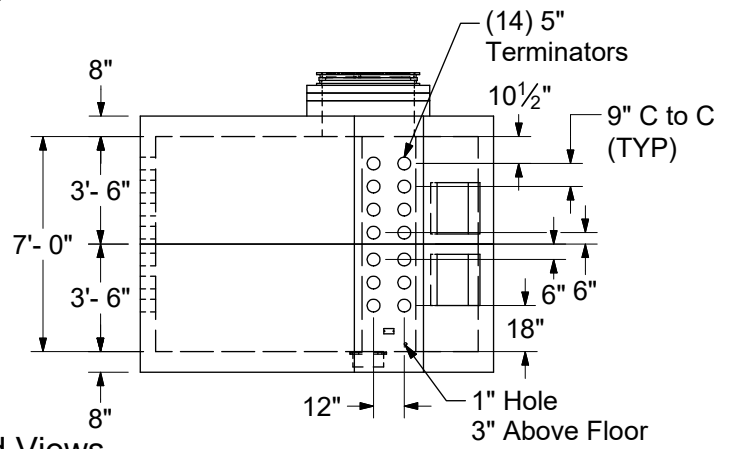
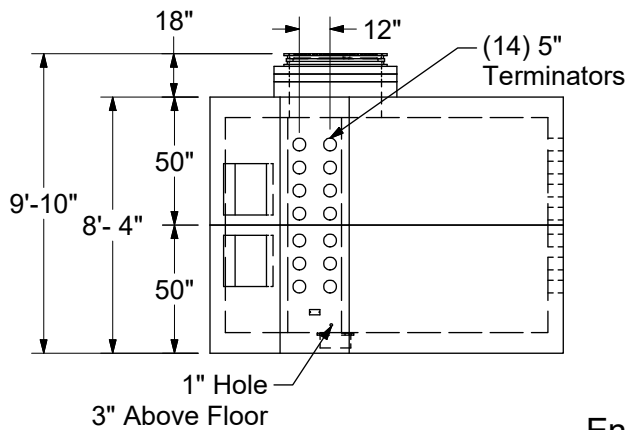
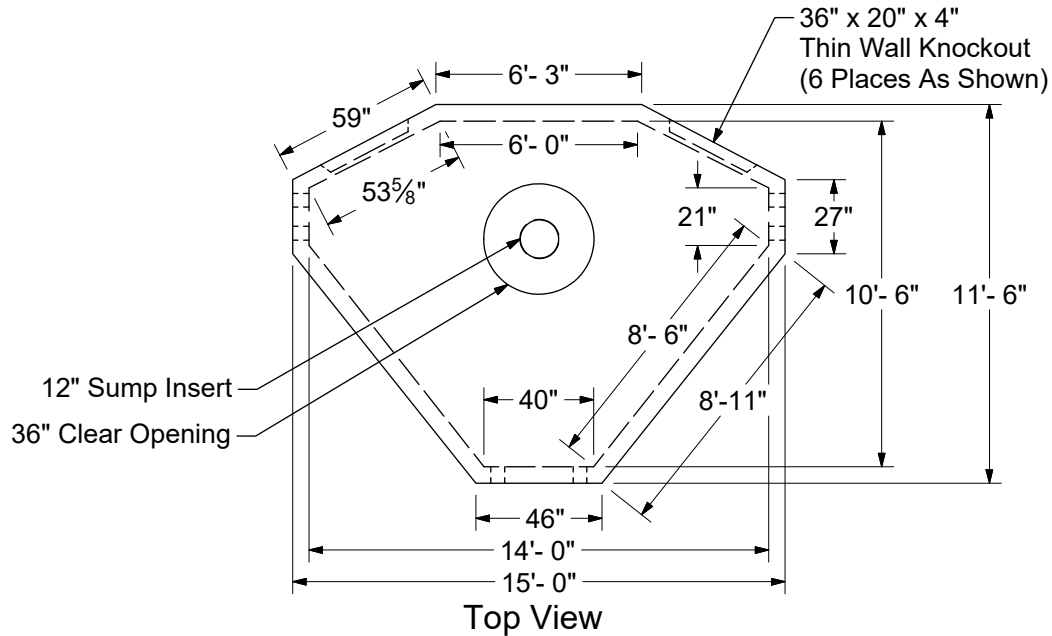
	ITEM	STK / DCS #	DESCRIPTION	32 21 06 **	01	02
1	A	12 06 227	Manhole - Top, Precast Concrete (Type 38Y- J4 Roof D)		1	1
		12 06 228	Manhole - Bottom, Precast Concrete (Type 38Y- J4 Roof D)		1	1
	B	33 12 02 01	Manhole Frame and Cover - 32" Dia. x 5-5/8" Deep		1	-
		33 12 02 02	Manhole Frame and Cover - 32" Dia. x 10" Deep		-	1

DESIGN NOTE(s):

2. Traffic Rated Design - H-20 16,000 pounds wheel load.

DISTRIBUTION CONSTRUCTION STANDARDS

REV	DATE	ENG	DESCRIPTION
3	01/01/24	JMW	Converted to new format
2	12/12/12	DDG	





UNDERGROUND STRUCTURES

Precast Manhole - 3 Way
10'-6" x 14'-0" x 7'-0"

32 22 01 **

2 of 2

CONSTRUCTION NOTE(s):

1. Preferred setting depth is 18" as shown. Minimum setting depth is 12" and maximum is 60".
2. Preferred collar configuration is one 6" and two 3" for 12" thickness. The 3" necks are required on all manholes and shall be the top two collars. Add the required necks so that frame and cover are at final grade. 3" thick collar is Stock #12 06 062 and 6" thick collar is Stock #12 06 063.
3. Weights are as follows: Top Section - 21,609 lbs., Bottom Section - 22,305 lbs., Total - 43,914 lbs.

DCS #	DESCRIPTION
32 22 01 01	18" Setting Depth
32 22 01 02	60" Setting Depth

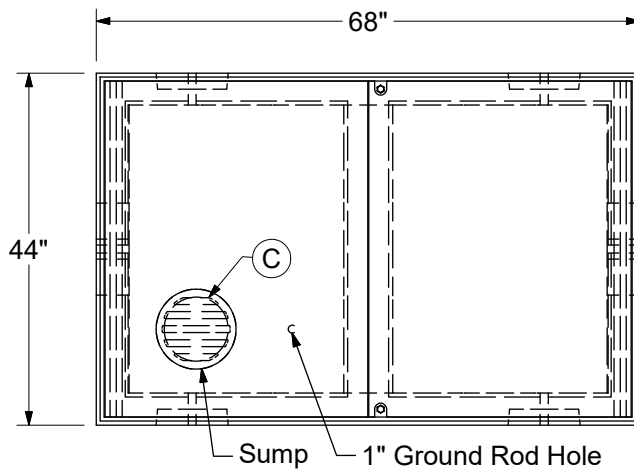
ITEM	STK / DCS #	DESCRIPTION	32 22 01 **	01	02
A	12 06 237	Manhole - Top, Precast Concrete		1	1
	12 06 238	Manhole - Bottom, Precast Concrete		1	1
B	98 00 006	Concrete - 2 Sack (C.Y.)		14	14
C	12 51 156	Coupling - Conduit, 5" Plastic (AVG.)		26	26
D	19 04 327	Grate - 14"		1	1
E	33 11 ** **	Wingwall Bays		1	1
F	33 12 01 01	Frame and Cover 36" Dia. x 18" Deep		1	-
	33 12 01 02	Frame and Cover 36" Dia. x 60" Deep		-	1
G	98 00 014	Crushed Rock (C.Y.)		2	2
H	12 53 017	Shield - Duct, 3" thru 6"		1	1
6	I	12 56 113	Cable Mounting Arm - 14"	#	#
6	J	12 56 112	Cable Mounting Arm - 18"	#	#
6	K	12 56 114	Cable Mounting Arm - 7-1/2"	#	#
@	L	12 56 125	J Hook - 5"	#	#
@	M	33 20 03 01	Grounding System, 3-Way Manhole	1	1
@		Op Code, Excavation (Mach.) (C.Y.)		46	65
@		Op Code, Backfilling (Mach.) (C.Y.)		12	28
@		Op Code, Tamping (S.F.)		124	124
@		Op Code, Surface Removal (S.F.)		124	124
@		Op Code, Surface Replacement (S.F.)		124	124
@		Op Code, Loading Out (C.Y.)		#	#

DESIGN NOTE(s):

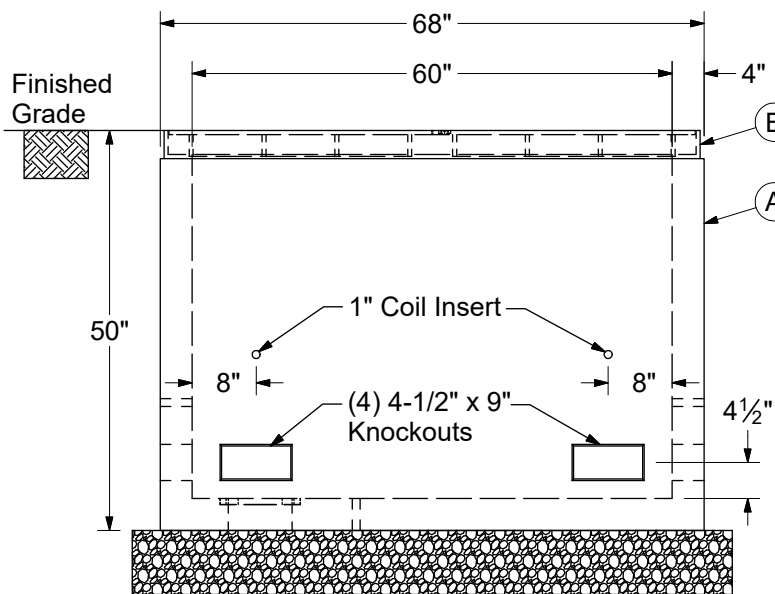
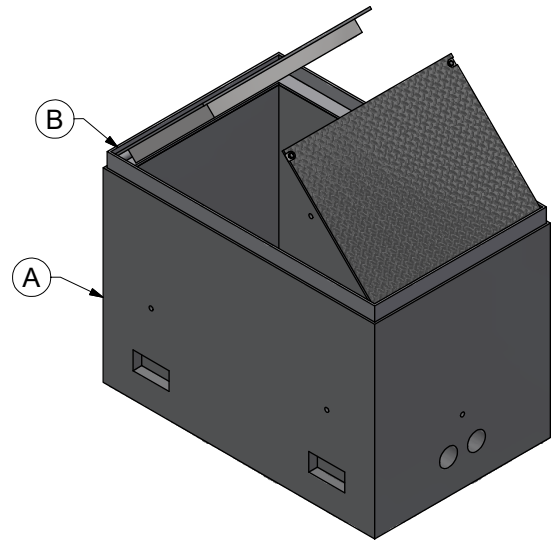
4. 4.586 Cubic yards of dirt removed per foot of excavation.
5. Add the required number of 6" concrete (Stock #12 06 063) and 3" concrete (Stock #12 06 062) necks so that the frame and cover are at final grade.
6. Manholes are equipped with the cable mounting racks. Add the required number of cable mounting arms to suspend the installed cables.
7. Traffic Rated Design - H-20 16,000 pounds wheel load.

DISTRIBUTION CONSTRUCTION STANDARDS

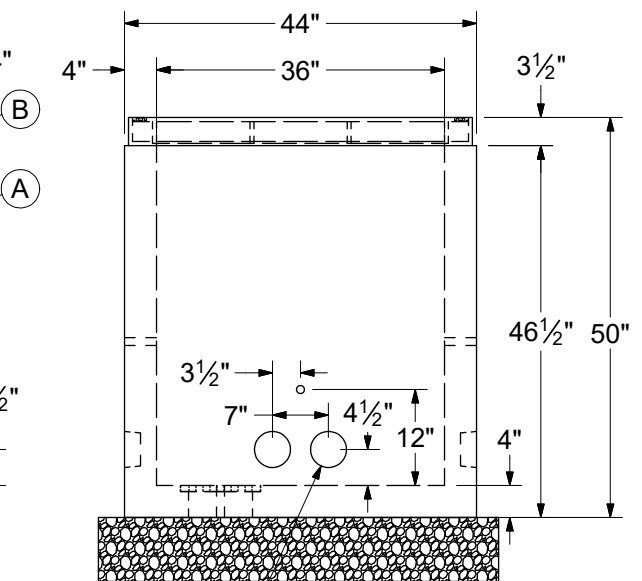
REV	DATE	ENG	DESCRIPTION
10	01/01/24	JMW	Converted to new format
9	04/23/14	EJB	



Top View



Side View



(4) 4" Terminators End View

CONSTRUCTION NOTE(S):

1. Grade adjustments shall be made using the riser to meet the existing slope. The vault floor shall always be installed level.
2. Excavate a pit approximately 5' W x 7' L and 4-1/2' D.
Note: 6" riser (Stock #12 06 192) may be use if vault is set deeper.
3. Fill with crushed rock leveling the rock and tamping to firm wherever the earth has been disturbed.
4. Use swivel plates mounted to the threaded inserts with lag bolts to firmly fasten the plate against the wall.

DISTRIBUTION CONSTRUCTION STANDARDS

REV	DATE	ENG	DESCRIPTION
11	01/01/24	JMW	Converted to new format
10	01/12/16	EJB	



UNDERGROUND STRUCTURES

Precast Vault
3' X 5' X 3.5' DEPTH

32 24 01 **

15kV

2 of 2

CONSTRUCTION NOTE(S): (CONT.)

5. Place conduits into ducts or knockouts as required. Grout or mortar around ducts entering thru knockouts.
6. Replace and stabilize the earth around the vault and riser tamping to compaction.
7. Brick and mortar between riser and keyway in manhole to accommodate the grade slope. Seal the cover frame to riser with aquaseal. Install pulling eyes firmly into wall above conduits.
8. Weights are as follows: vault - 4,200 lbs., riser - 665 lbs., cover - 500 lbs.
9. Sod or resurface grade as necessary.
10. In Missouri residential developments, the contractor will install the vault conduit, See DCS 32 24 01 03.

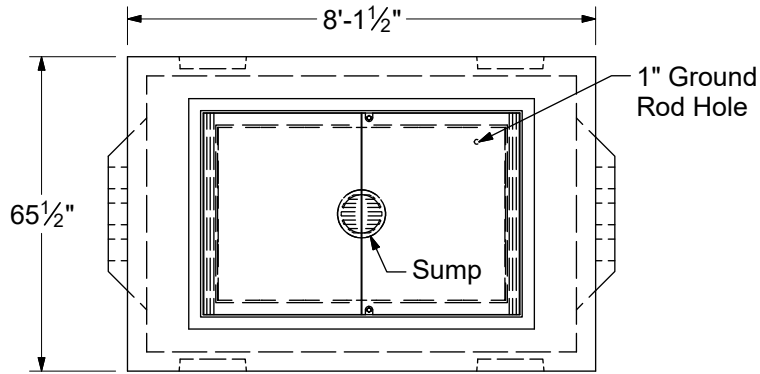
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	A	12 06 097	Vault - Precast 3' x 5'		1	-
	B	12 02 100	Cover - Vault Galv. Stl. 42" x 66"		1	-
	C	19 04 352	Grate - Sewer 10" Round		1	1
	D	98 00 014	Rock - Crushed (c.y.)		1	-
	E	23 59 076	Eye - Pulling (ea.)		2	2
	F	25 54 053	Compound - Sealer Aqua		1	-
	G	12 53 017	Shield - Duct, 3" thru 6"		#	#
@			Op Code, Mechanical Excavation (c.y.)		11	-
@			Op Code, Mechanical Backfill (c.y.)		2	-
@			Op Code, Air Tamping (s.f.)		32	-
@			Op Code, Install Conduit (m.h.)		50	-
@			Op Code, Knockout - Conduit Preparation		#	#
@			Op Code, Resurfacing		#	#

DESIGN NOTE(s):

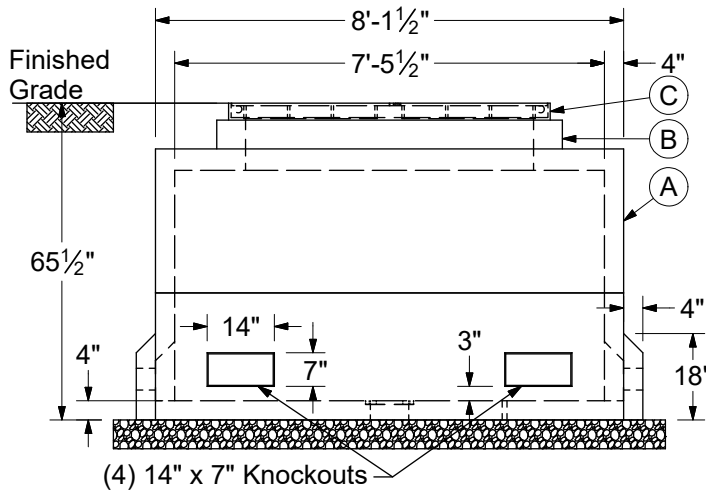
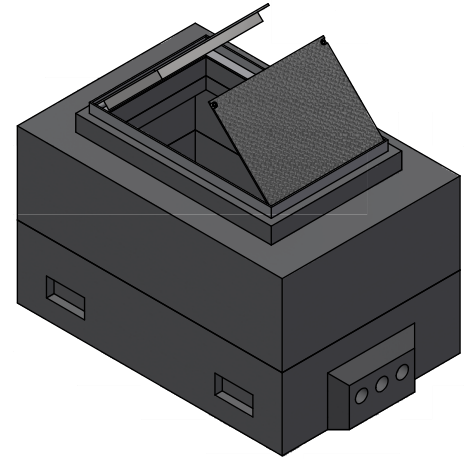
11. Vault has (2) 4" PVC couplings at each end. Use with #2 and 4/0 cable. Vault can accommodate up to 6 splices.
12. This vault can withstand occasional vehicular traffic loading and can be placed in between the street and sidewalk, in parking lots, and driveways. Rated H-15 12,000 pounds wheel load.

DISTRIBUTION CONSTRUCTION STANDARDS

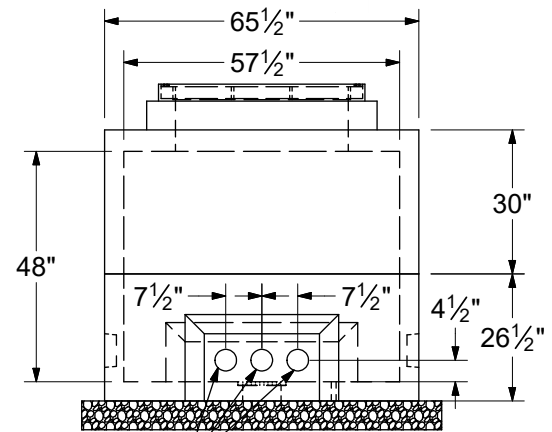
REV	DATE	ENG	DESCRIPTION
11	01/01/24	JMW	Converted to new format
10	01/12/16	EJB	



Top View



Side View



(6) 5" Terminators End View

CONSTRUCTION NOTE(s):

- Grade adjustments shall be made using the riser to meet the existing slope. The vault floor shall always be installed level.
- Excavate a pit approximately 6' W x 11' L and 6' D.
Note: The 6" riser must be used on this vault.
- Fill any overdig with crushed rock leveling the rock and tamping to firm whatever the earth has been disturbed.
- Use swivel plates mounted to the threaded inserts with lag bolts to firmly fasten the plate against the wall.
- Place conduits into ducts or knockouts as required. Grout or mortar around ducts entering thru knockouts.
- Replace and stabilize the earth around the vault and riser tamping to compaction.
- Brick and mortar between riser and keyway in manhole to accommodate the grade slope. Seal the cover frame to the riser with aquaseal. Install pulling eyes firmly into wall above conduits.
- Weights are as follows: bottom - 4,560 lbs., top - 4,420 lbs., riser - 365 lbs., cover - 500 lbs.
- Sod or resurface grade as necessary.
- In Missouri residential developments, the contractor will install the vault and conduits. See DSC # 32 24 02 03.



UNDERGROUND STRUCTURES

Precast Vault
4' x 8' x 4' Depth

32 24 02 **

15kV

2 of 2

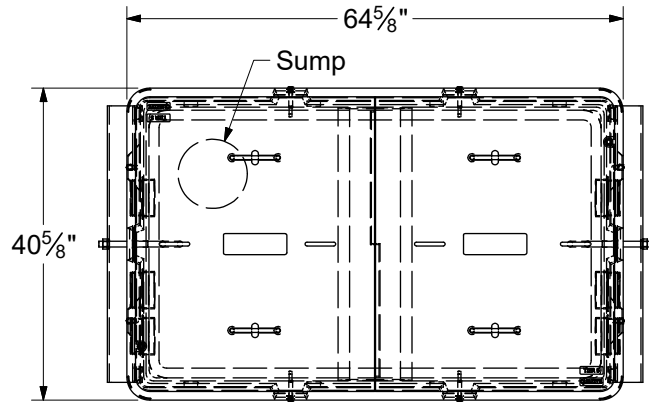
	ITEM	STK / DCS #	DESCRIPTION	32 24 02 **	01	03
	A	12 06 096	Vault - Precast 4' x 8'		1	-
	B	12 06 192	Riser - Neck 6" Extension		1	-
	C	12 02 100	Cover - Vault Galv. Stl. 42" x 66"		1	-
	D	19 04 352	Grate - Sewer 10" Round		1	-
	E	98 00 014	Rock - Crushed (c.y.)		2	-
	F	23 59 076	Eye - Pulling		2	2
	G	25 54 053	Compound - Sealer Aqua		1	-
	H	12 53 017	Shield - Duct, 3: thru 6"		#	#
@			Op Code, Mechanical Excavation (c.y.)		20	-
@			Op Code, Mechanical Backfill (s.f.)		1	-
@			Op Code, Air Tamping (m.h.)		50	-
@			Op Code, Install Conduit		50	-
@			Op Code, Knockout - Conduit Preparation		#	#
@			Op Code, Resurfacing		#	#

DESIGN NOTE(s):

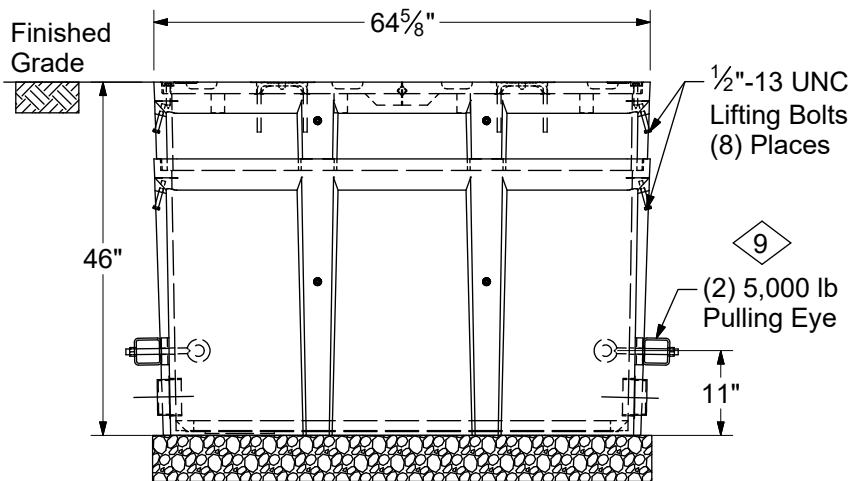
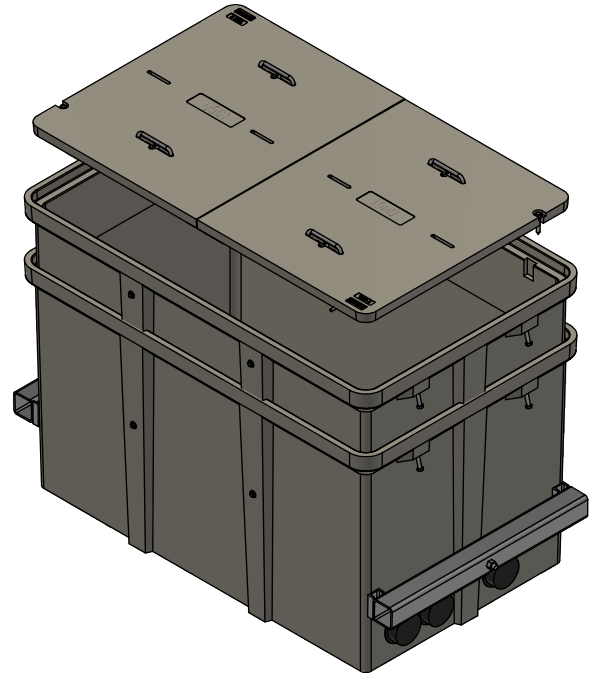
- Vault has (3) 5" PVC couplings at each end. Use with 350 through 750 cable.
- This vault can withstand occasional vehicular loading and can be placed in between the street and sidewalk, in parking lots, and driveways. Rated H-15 12,000 pounds wheel load.

DISTRIBUTION CONSTRUCTION STANDARDS

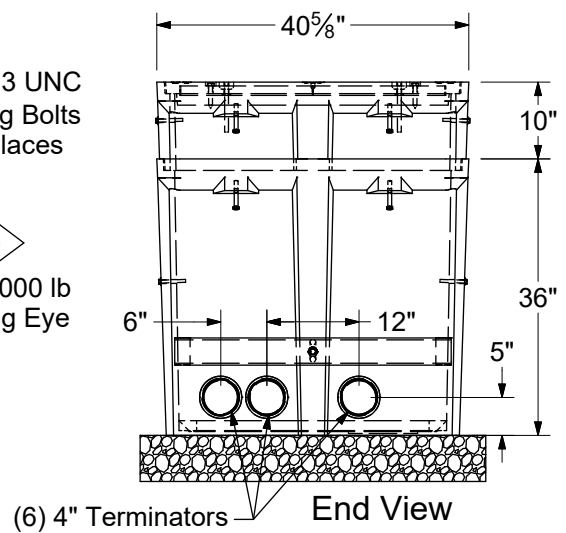
REV	DATE	ENG	DESCRIPTION
10	01/01/24	JMW	Converted to new format
9	01/26/11	DDG	



Top View



Side View



End View



UNDERGROUND STRUCTURES

Fibercrete or Polyethylene Vault
3' x 5' x 3.5' Depth

32 24 03 **

15kV

2 of 2

CONSTRUCTION NOTE(s):

1. Drawing illustrates Fibercrete vault. Polyethylene vault dimensions vary slightly.
2. Excavate and install vault at standard conduit depths on 10" base of 1" gravel.
3. Fill any overdig with crushed rock leveling the rock and tamping firm.
4. Install conduits in couplings or drill holes in desired conduit locations.
5. Replace and stabilize the earth around the vault tamping to compaction
6. Sod or resurface grade as necessary.

	ITEM	STK / DCS #	DESCRIPTION	32 24 03 **	01	02
9	A	12 06 122	Vault - 3' x 5' - Fibercrete		1	-
	B	12 06 259	Vault - 3' x 5' - Polyethylene		-	1
	C	98 00 14	Rock - Crushed (cy.)		1	1
	D	19 04 352	Grate - Sewer 10" Round		1	1
	E	12 53 017	Shield - Duct, 3" thru 6"		#	#
@			Op Code, Mechanical Excavation (cy.)		11	11
@			Op Code, Mechanical Backfill (cy.)		2	2
@			Op Code, Air Tamping (s.f.)		32	32
@			Op Code, Install Conduit (MH/10)		50	50
@		701	Op Code, Drill Hole in Vault		#	#
@			Op Code, Resurfacing		#	#

DESIGN NOTE(s):

7. Vault has (3) 4" couplings at each end. Use with #2 and 4/0 cable. Vault can accommodate up to 9 splices.
8. These vaults are intended for yards, terraces sidewalks, and other areas not subject to vehicular traffic. Non-Traffic Rated 5,000 pounds over 10" x 10" area.

9. Weight of Fibercrete vault is 1,136 lbs. Weight of polyethylene vault is 420 lbs. Use Polyethylene vault only when Fibercrete is too heavy to transport - such as on private property.

DISTRIBUTION CONSTRUCTION STANDARDS

REV	DATE	ENG	DESCRIPTION
5	01/01/24	JMW	Converted to new format
4	06/26/18	JMW	

REV	DATE	ENG	DESCRIPTION
1	01/01/24	JMW	Converted to new format
0	01/11/13	DDG	

NOTES