

C1 CONCRETE WASHOUT FACILITY

Notes:

- Concrete washout facility shall be installed prior to any concrete placement on site.
- A sign shall be installed adjacent to each washout facility to inform concrete equipment operators to utilize the CWF.
- The concrete washout facility shall be repaired and enlarged or cleaned out as necessary to maintain capacity for washed concrete.
- When CWF are no longer required for the work, the hardened concrete and materials used to construct the CWF shall be removed and disposed of.
- When the concrete washout facility is removed, the holes, depressions or other ground disturbance shall be backfilled, repaired and stabilized.
- ALLOW WASHED OUT CONCRETE MIXTURE TO HARDEN THROUGH EVAPORATION OF THE WASTEWATER. ONCE THE FACILITY HAS REACHED 70 PERCENT OF ITS CAPACITY, REMOVE THE HARDENED CONCRETE AND SURRENDERED TO A STATE OF SOUTH DAKOTA OR CITY OF SIOUX FALLS APPROVED WASTE CONCRETE COLLECTION SITE. THE CONTRACTOR SHALL DISCHARGE NO WASTE OR UNUSED CONCRETE ONTO VA PROPERTY DUE TO WASHING OF CONCRETE CONTAINERS.

Cross Sectional View

Revised: December 2008

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Concrete Washout Facility	Specification Reference No. 734	Plate Number 734.28
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C3 WATER MAIN

Pipe Size Diameter	Trench Width	Trench Height	Trench Area	Pipe Area	Water Main Bedding Mat. Area	Water Main Bedding Mat. Total LF
4"	28"	16"	3.11 Sq Ft.	0.9 Sq Ft.	3.02 Sq Ft.	0.21
6"	30"	18"	3.75 Sq Ft.	2.0 Sq Ft.	3.55 Sq Ft.	0.25
8"	32"	20"	4.44 Sq Ft.	3.5 Sq Ft.	4.10 Sq Ft.	0.29
10"	34"	22"	5.19 Sq Ft.	5.5 Sq Ft.	4.85 Sq Ft.	0.33
12"	36"	24"	6.00 Sq Ft.	7.9 Sq Ft.	5.22 Sq Ft.	0.37
16"	40"	28"	7.78 Sq Ft.	1.40 Sq Ft.	6.38 Sq Ft.	0.45
20"	44"	32"	9.78 Sq Ft.	2.18 Sq Ft.	7.60 Sq Ft.	0.53
24"	48"	36"	12.00 Sq Ft.	3.14 Sq Ft.	8.86 Sq Ft.	0.62
30"	56"	42"	17.50 Sq Ft.	4.91 Sq Ft.	12.59 Sq Ft.	0.88

Table A: Depth vs. Wall Thickness

Depth (inches)	Wall Thickness (inches)
24 Thru 84	3/16
90 Thru 96	1/4

Revised: December 2020

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Water Main Bedding	Specification Reference No. 900	Plate Number 900.11
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C5 DRAIN MANHOLE

Table A: Depth vs. Wall Thickness

Depth (inches)	Wall Thickness (inches)
24 Thru 84	3/16
90 Thru 96	1/4

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Sump Pump Collection Fiberglass and PVC Manhole	Specification Reference Special	Plate Number 450.03
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A-20814 INDICATOR POSTS NOMINAL INSTALLATION DIMENSIONS

B7 WALL MOUNTED PIV

NOTES:

- PAVEMENT TO BE BITUMINOUS CONCRETE LAID IN 2 COURSES.
- 2" OF CLASS I-1 BITUMINOUS SURFACE COURSE.
- 3" OF MODIFIED BITUMINOUS BASE COURSE.
- 12" GRAVEL BORROW BASE COURSE.

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Wall Mounted PIV	Specification Reference Special	Plate Number 450.03
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C9 PAVEMENT SECTION

NOTES:

- PAVEMENT TO BE BITUMINOUS CONCRETE LAID IN 2 COURSES.
- 2" OF CLASS I-1 BITUMINOUS SURFACE COURSE.
- 3" OF MODIFIED BITUMINOUS BASE COURSE.
- 12" GRAVEL BORROW BASE COURSE.

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Pavement Section	Specification Reference Special	Plate Number 450.03
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F1 CONCRETE STEAM MANHOLE WITH TYP. PIPING

NOTES:

- DIMENSIONS ARE MINIMUM UNLESS OTHERWISE NOTED.
- PROVIDE STRUCTURAL DESIGN SUITABLE FOR SITE LOCATION.
- FOR ADDITIONAL MANHOLE DETAILS INCLUDING STRUCTURE, VENTILATION, AND DRAINAGE CONSULT ARMY TECHNICAL MANUAL, TM 5-810-7.
- MINIMUM FLOOR SPACE 6'x8' [1829x1829mm].

Revised: December 2008

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Concrete Steam Manhole with Typical Piping	Specification Reference Special	Plate Number 450.03
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F3 SINGLE LEAF ACCESS DOOR FOR STEAM TUNNEL

CONSTRUCTION DATA SCHEDULE

- THE DESIGN LOAD IS A STATIC LOAD "P" APPLIED AT 27 INCHES ABOVE GRADE.
- THE EARTH PRESSURE VALUE IS SHOWN AT DESIGN LOAD AND SHALL BE VERIFIED THAT EARTH IS ADEQUATE TO WITHSTAND THE NOTED EARTH DESIGN PRESSURE.

NOTE: CONCRETE, FORM, ROCK, PVC DRAIN AND REBAR PROVIDED BY OTHERS

DESIGN	BOLLARD	EARTH	PIER	REINFORCING	PIER	FRENCH	PIER
LOAD P	Out Dia.	In Dia.	1" Q	MAX. 1" Q	MIN. 1" Q	LENGTH	IDENTITIES
6000 #	4.500"	4.026"	2667	PSF	54	INCH	4 1/2 EA. 8 Cu Ft 0.5 CF 18"

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Single Leaf Access Door for Steam Tunnel	Specification Reference Special	Plate Number 450.03
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E5 4.5-INCH REMOVABLE BOLLARD AND BASE

CONSTRUCTION DATA SCHEDULE

- THE DESIGN LOAD IS A STATIC LOAD "P" APPLIED AT 27 INCHES ABOVE GRADE.
- THE EARTH PRESSURE VALUE IS SHOWN AT DESIGN LOAD AND SHALL BE VERIFIED THAT EARTH IS ADEQUATE TO WITHSTAND THE NOTED EARTH DESIGN PRESSURE.

NOTE: CONCRETE, FORM, ROCK, PVC DRAIN AND REBAR PROVIDED BY OTHERS

DESIGN	BOLLARD	EARTH	PIER	REINFORCING	PIER	FRENCH	PIER
LOAD P	Out Dia.	In Dia.	1" Q	MAX. 1" Q	MIN. 1" Q	LENGTH	IDENTITIES
6000 #	4.500"	4.026"	2667	PSF	54	INCH	4 1/2 EA. 8 Cu Ft 0.5 CF 18"

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	4.5-Inch Removable Bollard and Base	Specification Reference Special	Plate Number 450.03
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F6 ACCESSIBLE RAMP

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Accessible Ramp	Specification Reference Special	Plate Number 450.03
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F7 NOT USED ON THIS SHEET

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Not Used on This Sheet	Specification Reference Special	Plate Number 450.03
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F1 CONCRETE STEAM MANHOLE WITH TYP. PIPING

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CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Concrete Steam Manhole with Typical Piping	Specification Reference Special	Plate Number 450.03
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F3 SINGLE LEAF ACCESS DOOR FOR STEAM TUNNEL

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Single Leaf Access Door for Steam Tunnel	Specification Reference Special	Plate Number 450.03
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F6 ACCESSIBLE RAMP

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Accessible Ramp	Specification Reference Special	Plate Number 450.03
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F7 NOT USED ON THIS SHEET

Revised: February 2004

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