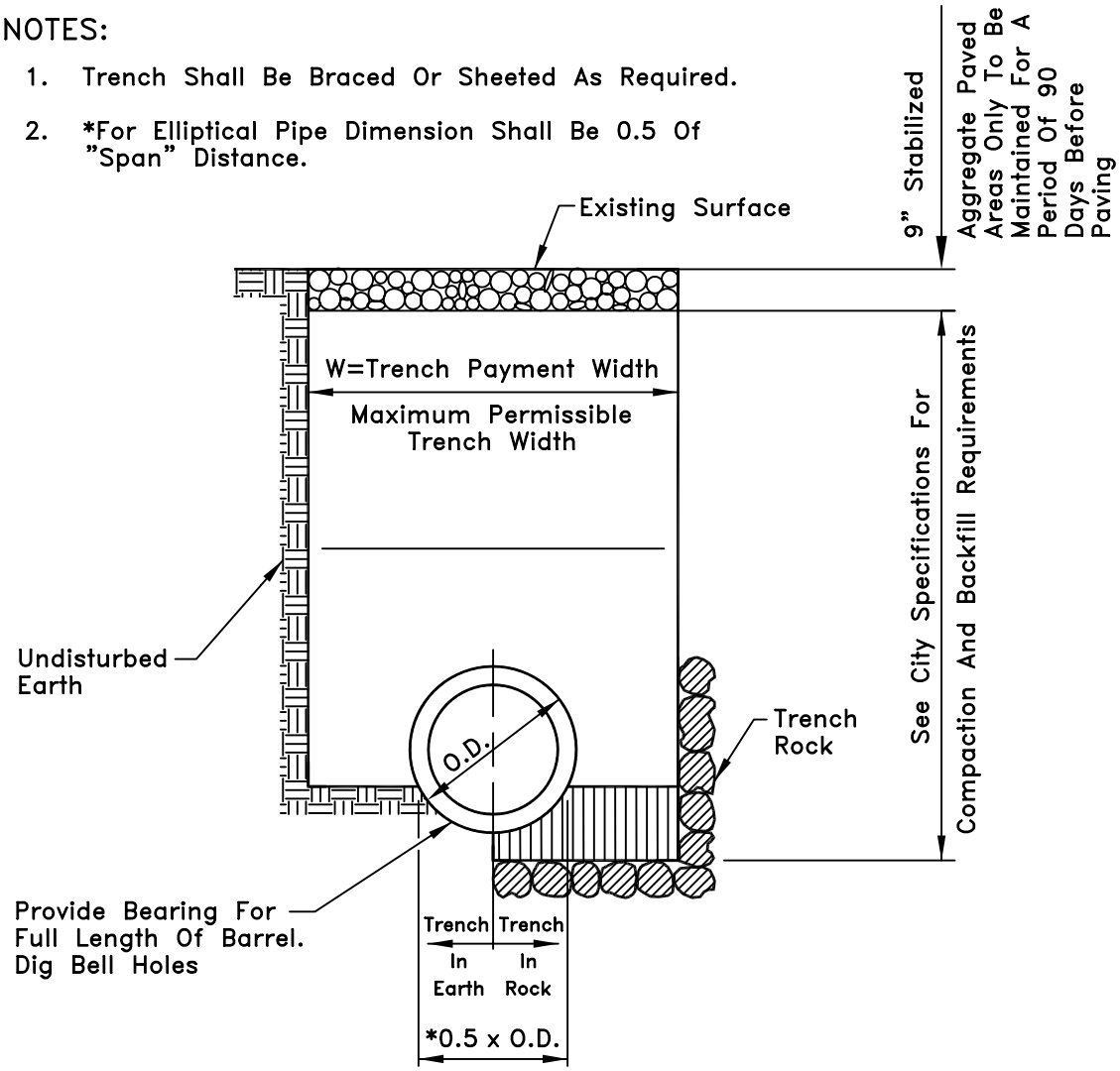
T-1	STANDARD TRENCH DETAIL
T-2	CRADLE DETAIL
T-3	UNGROUTED RIP-RAP STREAM CROSSING
T-4	WATER AND SANITARY SEWER TRENCH DETAIL
T-5	BEDDING AND COVER DETAIL FOR PVC PIPE
T-6	STANDARD TRENCH INSTALLATION FOR STORM DRAIN WITHIN CITY RIGHTS-OF-WAY AND/OR EASEMENTS
T-7	(OPEN)
T-8	DISPOSAL PROCEDURES LARGE ROCK FRAGMENTS (NON-STRUCTURAL AREAS)

NOTES:

1. Trench Shall Be Braced Or Sheeted As Required.
2. *For Elliptical Pipe Dimension Shall Be 0.5 Of "Span" Distance.



PIPE SETTING AND EXCAVATION

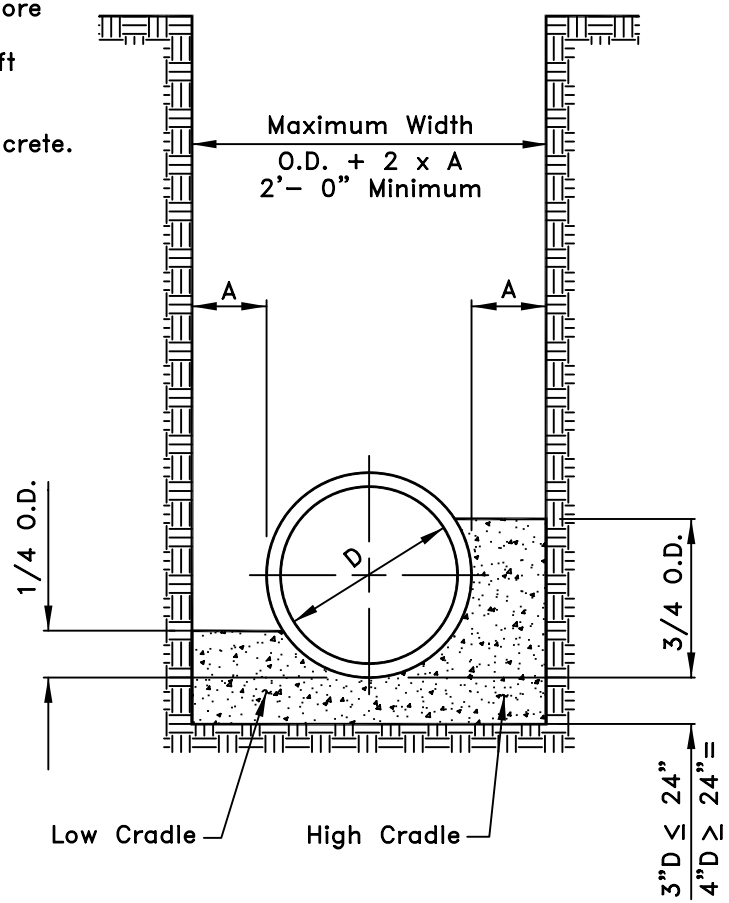
TRENCH PAYMENT WIDTHS		
PIPE DIA.	C.I.P. W-Ft.	RCSP-RCCP-RCCPX W-Ft.
6"	2.07	0.00
8"	2.23	
10"	2.40	
12"	2.57	2.82
15"		3.13
16"	2.92	
18"	3.10	3.42
20"	3.27	
21"		3.71
24"	3.62	4.00
27"		4.79
30"		5.08
33"		5.37
36"		5.67
42"		6.75
48"		7.33
54"		7.92
60"		8.00
66"		8.50
72"		9.00
78"		10.00

T-1	DRAWN BY: KAT SCALE: NONE	REVISIONS:		STANDARD TRENCH DETAIL	CITY OF FREDERICK Stan Aldridge 7-16-99 APPROVED DATE

CAD

NOTES:

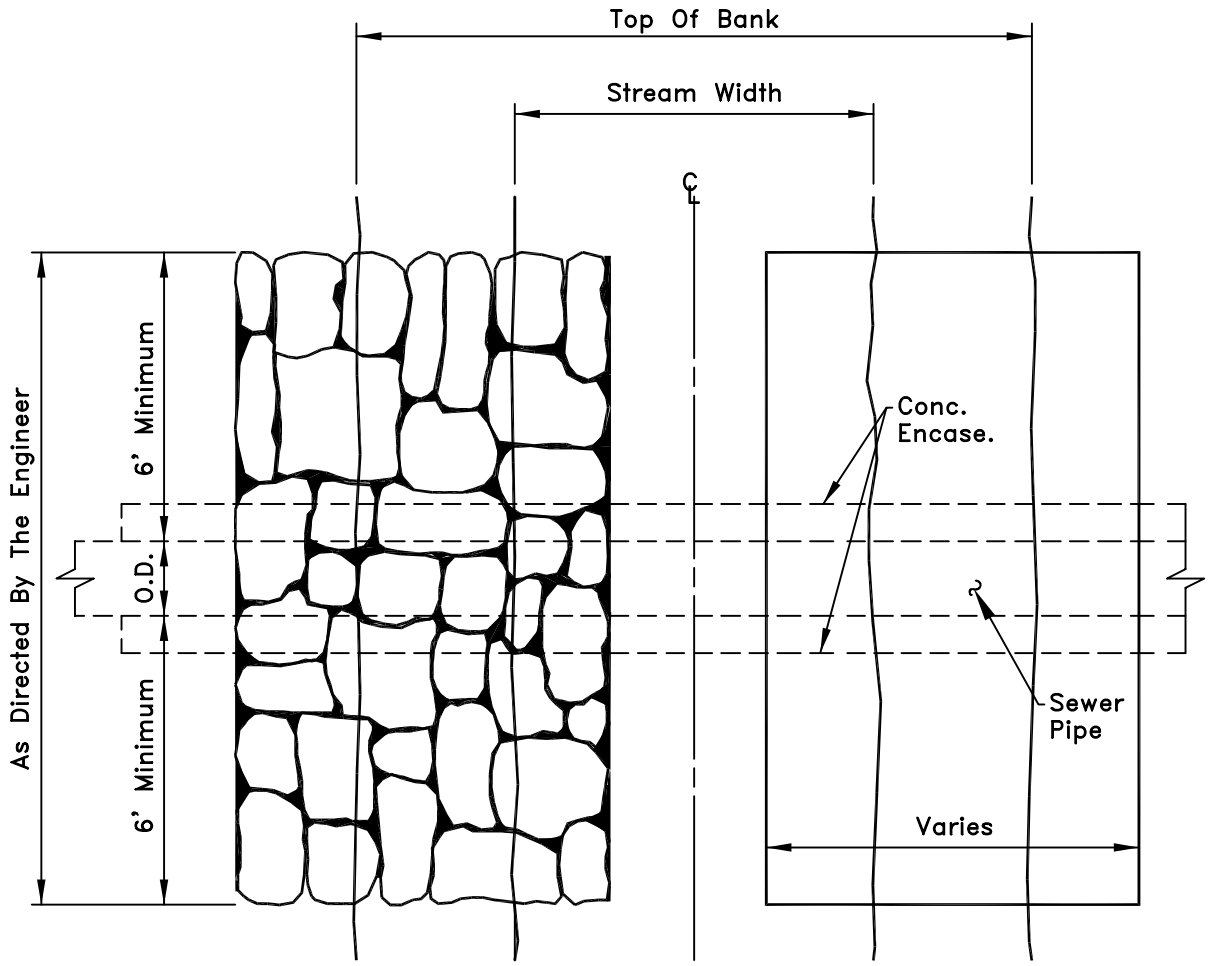
1. Pour Concrete Against Undisturbed Earth.
2. Remove Sheeting Before Pouring Concrete Or Sheeting Must Be Left In Place.
3. MSHA Mix No. 1 Concrete.

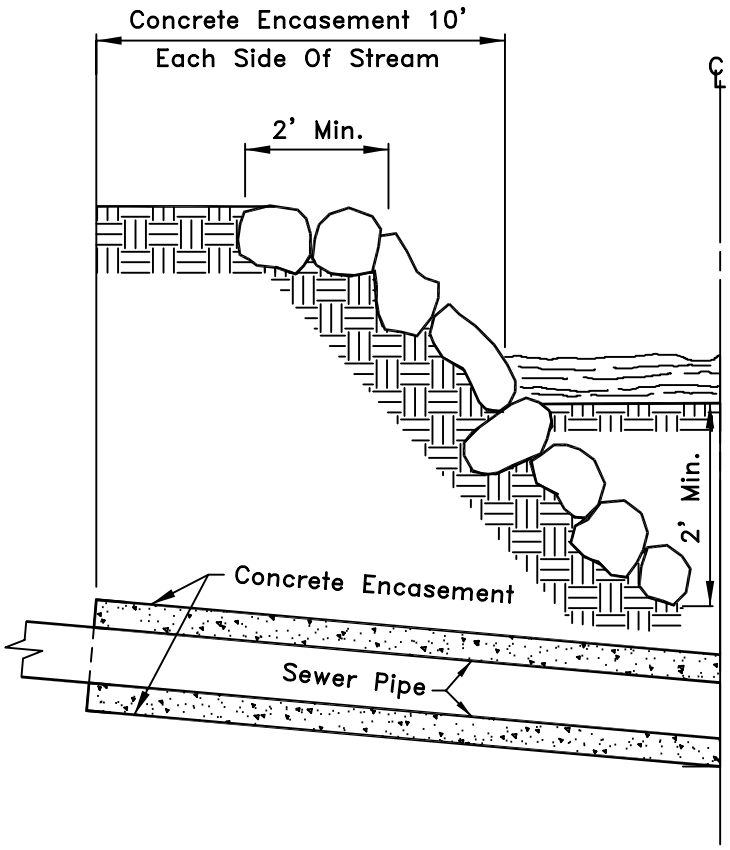


PAY QUANTITIES		
NORMAL PIPE DIAMETER	CU.FT./LINEAR FT.	
	HIGH CRADLE	LOW CRADLE
6	1.62	0.98
8	1.79	1.06
10	1.91	1.17
12	2.25	1.30
15	2.73	1.56
18	3.75	2.06
21	4.35	2.38
24	5.62	2.97
27	6.72	3.73
30	7.48	4.16
33	9.69	5.18
36	10.61	5.67
42	12.53	6.72
48	16.13	8.41
54	18.39	9.67
60	20.75	10.97

T–2	DRAWN BY: KAT SCALE: NONE	REVISIONS:		CRADLE DETAIL	CITY OF FREDERICK Stan Aldridge 7-16-99 APPROVED DATE

CAD





NOTES:

1. See Plans For Class Of Stone To Be Used And City Specifications For Gradation.

CITY OF FREDERICK

APPROVED 7-16-99 DATE

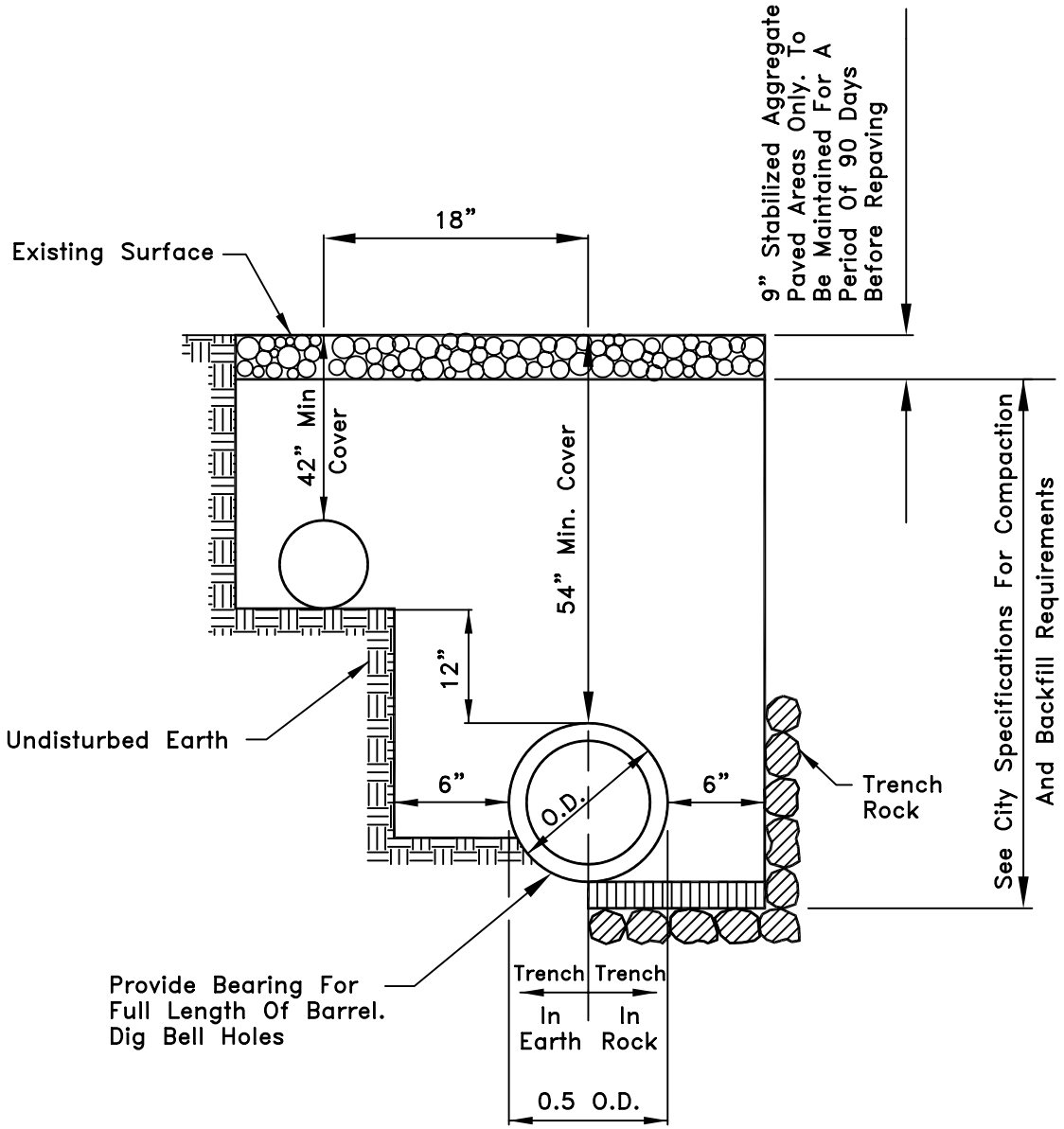
UN-GROUTED RIP-RAP STREAM CROSSING

REVISIONS:

DRAWN BY: KAT
SCALE: NONE

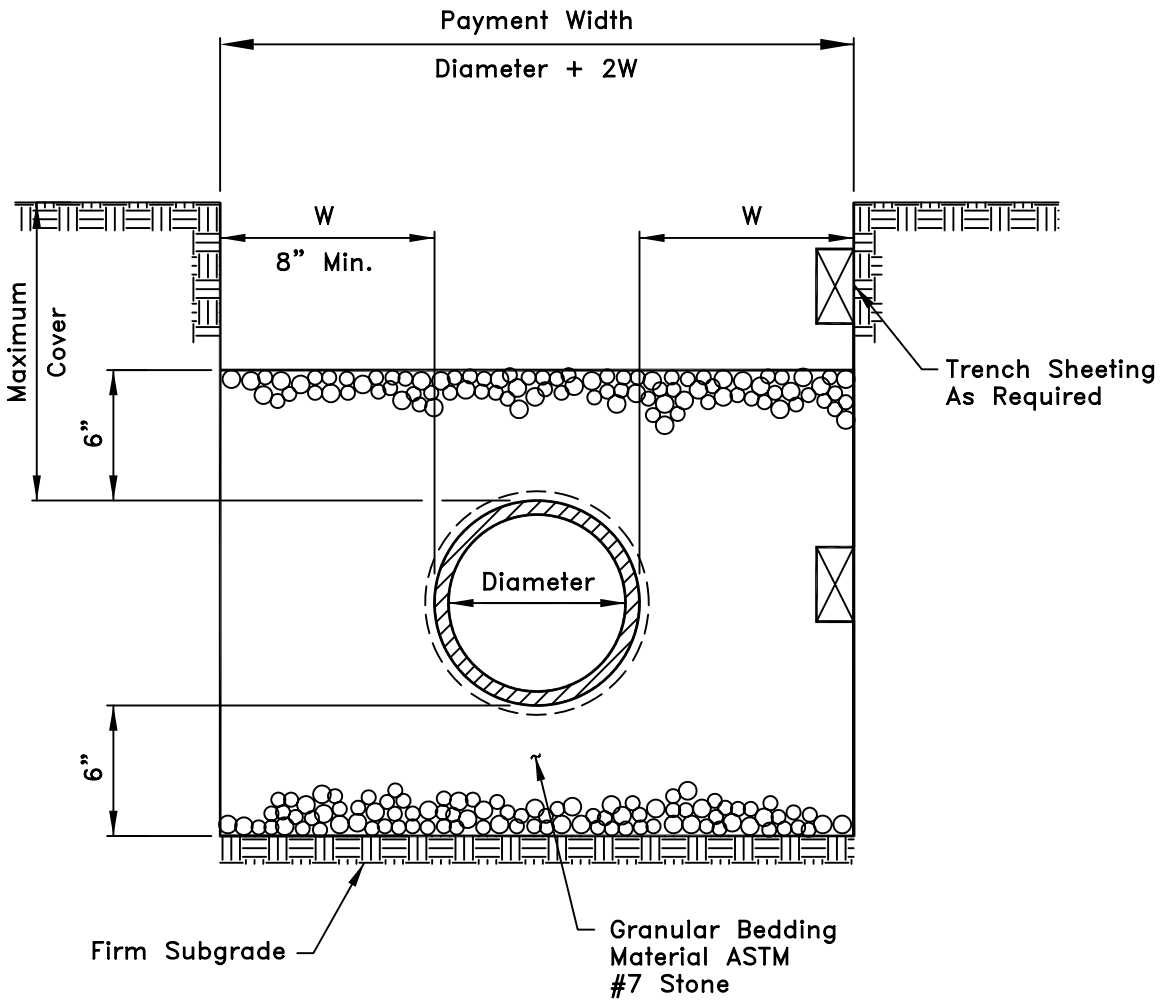
T-3

CAD



T-4	DRAWN BY: KAT SCALE: NONE	REVISIONS:		WATER AND SANITARY SEWER TRENCH DETAIL	CITY OF FREDERICK Stan Aldridge 7-16-99 APPROVED DATE

CAD



NOTES:

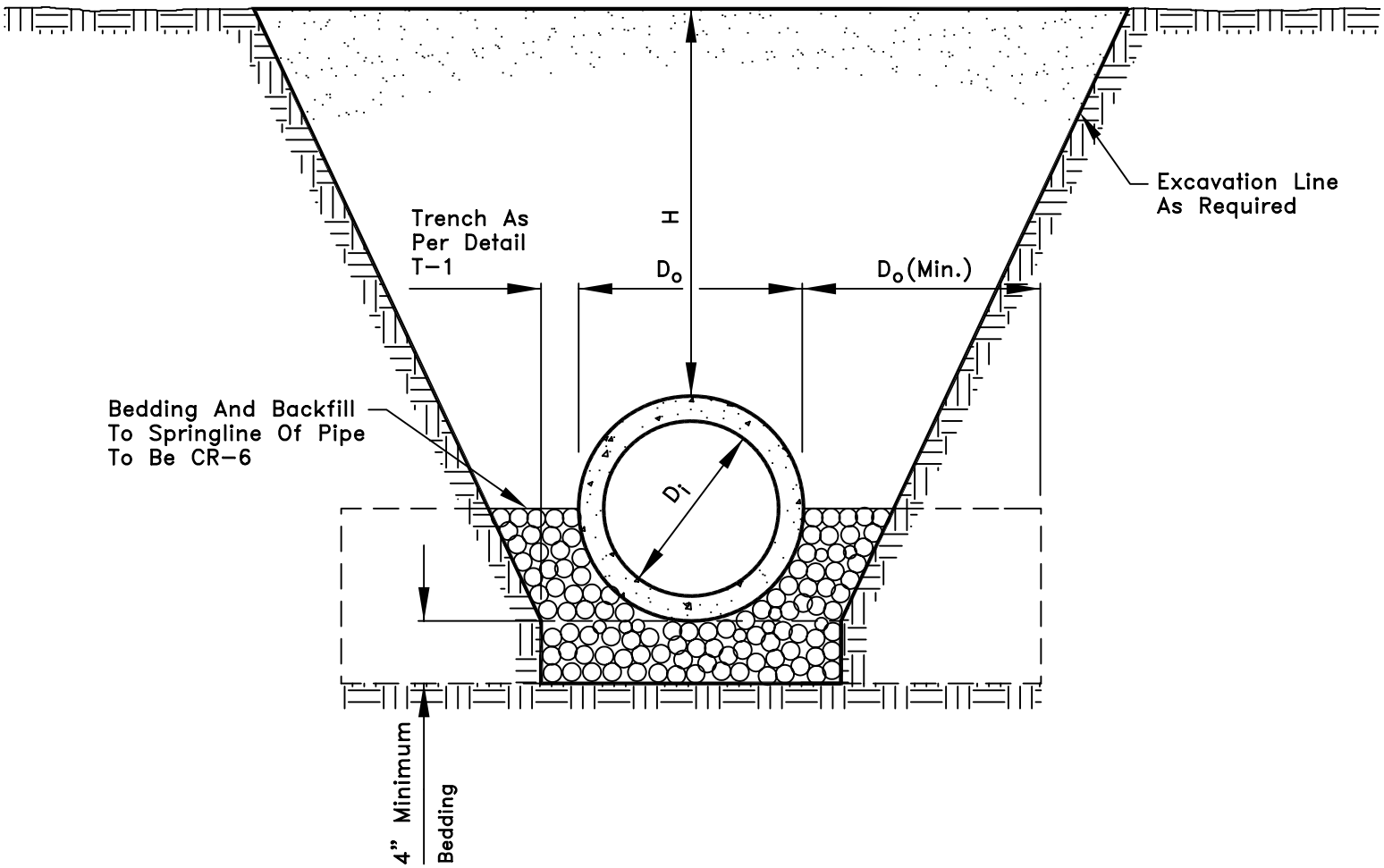
1. The Maximum Depth Of Cover Over SDR 26 Shall Be Limited To 17.5'.

2. Any Pipe With A Cover More Than 17.5' Must Be Cast Iron Or Concrete.

DIA.	W
3"	12"
4"	12"
6"	11"
8"	10"
10"	9"
12"	8"
15"	8"
16"	8"
18"	8"
20"	8"

T-5	DRAWN BY: KAT SCALE: NONE	REVISIONS:		BEDDING AND COVER DETAIL FOR PVC PIPE	CITY OF FREDERICK Stan Aldridge 7-16-99 APPROVED DATE

CAD



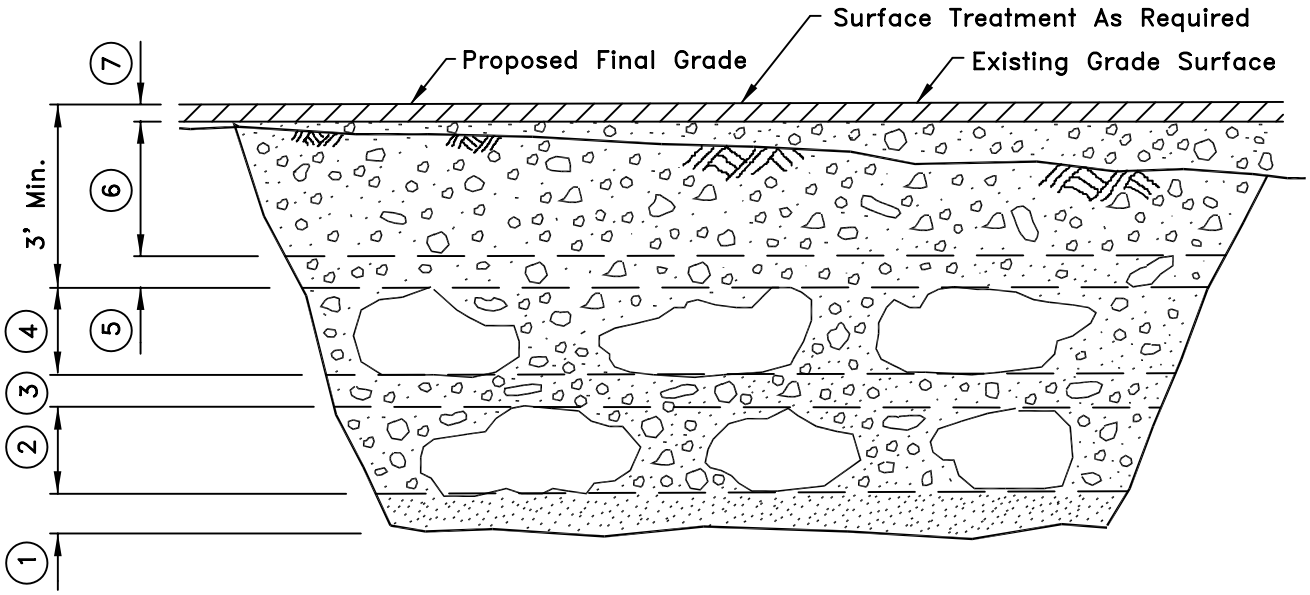
T-6	DRAWN BY: KAT SCALE: NONE	REVISIONS:		STANDARD TRENCH INSTALLATION FOR STORM DRAIN WITHIN CITY RIGHTS-OF-WAY AND/OR EASEMENTS	CITY OF FREDERICK Stan Aldridge 7-16-99 APPROVED DATE

CAD

OPEN

T-7	DRAWN BY: SCALE: NONE	REVISIONS:			CITY OF FREDERICK APPROVED DATE

CAD



PROCEDURE:

A. Select Non–Structural Area For Disposal Of Large Rock Fragments

B. Excavate Pit As Required For Disposal.

C. Fill Pit As Follows:

1. Scarify Bottom Or Place Loose Lift (8" Max.) Of Soil/Rock Fragments.
2. Place Large Rock Fragments To Prevent Nesting. Fill Around Fragments With Soil/Smaller Rock Fragments To Fill Voids.
3. Place Soil/Rock Fragments (8" Max. Loose Lift). Roll Thoroughly With Heavy Vibratory Roller.

4 & 5. Same As 2 And 3.

6. Place 8" Max. Lifts, Clean Fill (Max. Rock Fragments 2") Compact Each Lift.
7. Surface Treatment As Required For Final Use – (4" Min. Topsoil).
8. Borrow/Disposal Pit Areas Must Be Identified On Improvement Plans Prior To Establishing Same.
9. The Procedure May Not Be Used To Backfill Trenches Over Utility Lines. See Section 02200 Of The City Standard Specifications For Proper Trench Backfill.

T–8	DRAWN BY: KAT SCALE: NONE	REVISIONS:		DISPOSAL PROCEDURES LARGE ROCK FRAGMENTS (NON–STRUCTURAL AREAS)	CITY OF FREDERICK Stan Aldridge 7–16–99 APPROVED DATE

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