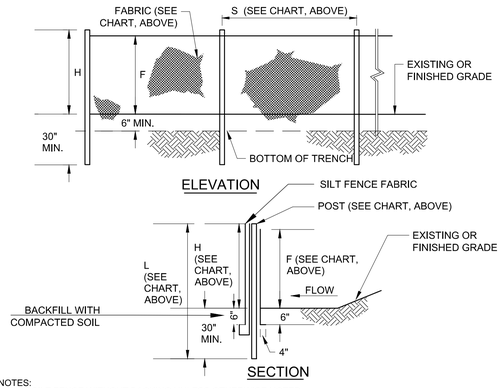
POST SIZE, MATERIAL AND SPACING CHART		
	WITHOUT BACKING	WITH BACKING
MIN. LENGTH = L	58"	58"
MIN. HEIGHT = H	18"	30"
MAX. SPACING = S	6'-0"	6'-0"
MATERIAL	2.25"x2.25" PINE OR 1.25 LB./FT. STEEL	1.25 LB./FT. STEEL
	WITHOUT BACKING	WITH BACKING
TENSILE STRENGTH (LBS. MIN.) (1) (ASTM D-4632)	WARP - 120 FILL - 100	WARP - 310 FILL - 200
ELONGATION (% MAX.) (ASTM D-4632)	20	---
AOS (APPARENT OPENING SIZE) (MAX. SIEVE SIZE) (ASTM D-4751)	#30	#70
FLOW RATE (GAL./MIN./SQ. FT.) (GDT-87) (MAX.)	4	18
ULTRAVIOLET STABILITY (2) (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355)	70	90
BURSTING STRENGTH (P.S.I. MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	250	400
MINIMUM FABRIC WIDTH (INCHES) = F+6"	26"	38"
(1) MINIMUM ROLL AVERAGE OF FIVE SPECIMENS. (2) PERCENT OF REQUIRED INITIAL MINIMUM STRENGTH. (3) PROVIDE WIRE FABRIC BACKING FOR TYPE C.		



NOTES:
1. USE SILT FENCE WITHOUT BACKING UNLESS OTHERWISE NOTED.
2. SILT FENCE SHALL BE INSTALLED USING A MECHANICAL TRENCHING MACHINE.
3. FABRIC, IN AREAS WHERE ROCK PROHIBITS PROPER EMBEDMENT, SHALL BE SECURED BY PLACING CLEAN CRUSHED STONE OR SAND ALONG THE BASE OF THE FENCE, 20 POUNDS OF STONE OR SAND, PER FOOT, MIN.
4. FILTER FABRIC SHALL BE FASTENED TO WOODEN POSTS WITH A MINIMUM OF FIVE, 17 GAUGE (¾" WIDE X 1½" LONG) WIRE STAPLES.
5. FILTER FABRIC SHALL BE FASTENED TO STEEL POSTS WITH A MINIMUM OF FIVE WIRES OR PLASTIC ZIP TIES WITH A MINIMUM OF 50 LBS TENSILE STRENGTH.
6. CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT WHEN SEDIMENT DEPTH REACHES 12".

01 C902

TEMPORARY SILT FENCE
NOT TO SCALE

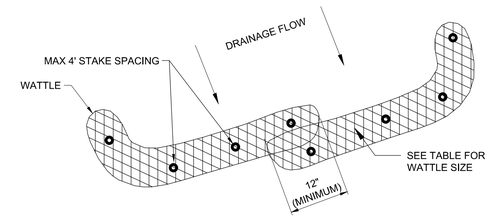


Table 1: Wattle Spacing Table for Slope Application

Slope	Wattle Diameter				
	8"	12"	18"	20"	24"
2%	70'	100'	N/A	N/A	N/A
5%	30'	60'	100'	100'	100'
10%	20'	30'	70'	85'	100'
6:1	N/A	20'	40'	50'	55'
4:1	N/A	20'	30'	30'	30'
3:1	N/A	N/A	20'	20'	25'
2:1	N/A	N/A	20'	20'	20'

Table 2: Maximum Spacing for Wattles/Tubes in Ditch Application (Source: TDOT)

Slope (%)	Maximum Tube/ Wattle Spacing (ft.)
< 2	125
2	100
3	75
4	50
5	40
6	30
> 6	25

SPECIFICATIONS:

1. WATTLE NETTING SHOULD BE A KNITTED MATERIAL WITH ¼ TO ¾ INCH OPENING AND MADE OF PHOTODEGRADABLE (POLYPROPLENE, HDPE) OR BIODEGRADABLE (COTTON, JUTE, COIR) MATERIAL.
2. THE MINIMUM DIAMETER OF FOR ANY WATTLE APPLIED IN A DITECH SHOULD BE 12 INCHES.
3. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE SEDIMENT WATTLES ARE IN COMPLETE CONTACT WITH THE UNDERLYING SOIL OR UNDERLYING SURFACE. REMOVE ALL ROCKS, CLODS, VEGETATION OR OTHER OBSTRUCTIONS SO INSTALLED SEDIMENT TUBES HAVE DIRECT CONTACT WITH THE UNDERLYING SOIL OR SURFACE.

NOTES:

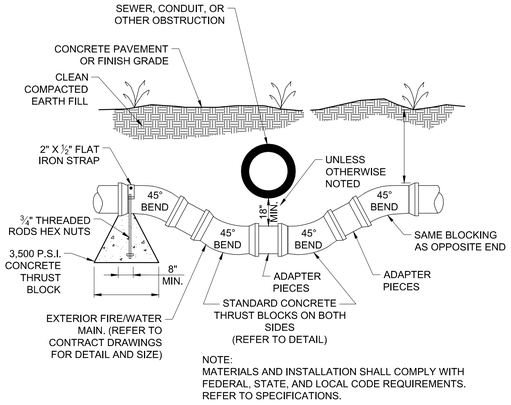
1. INSTALL STAKES AT SPACING PER THE MANUFACTURES RECOMMENDATION, BUT NO MORE THAN 4' MAXIMUM. STAKES SHOULD BE INSTALLED ON THE DOWNSTREAM SIDE OF THE WATTLES. LEAVE 1"-2" OF STAKE EXPOSED.
2. WHEN APPLIED ON SLOPES, TEMPORARY SEDIMENT TUBES SHOULD BE PLACED ALONG THE CONTOUR, AND THE ENDS OF THE TUBES SHOULD BE TURNED UPSLOPE IN ORDER TO PREVENT EROSION WHICH COULD OCCUR AS FLOW BYPASSES AROUND THE ENDS OF THE ROW.
3. IN PAVEMENT APPLICATIONS, PLACE AN ADEQUATE NUMBER OF WATTLE ROLLS ALONG PAVEMENT TO PROVIDE COMPLETE PROTECTION. ENDS SHOULD OVERLAP AT LEAST 12 INCHES.
4. JOCHS WITHIN A DITCH SECTION SHOULD BE AVOIDED. WHERE JOINTS ARE REQUIRED, A SECOND ROW OF WATTLES IS REQUIRED WITH THE JOINTS STAGGERED BY A DISTANCE EQUAL TO HALF OF THE INDIVIDUAL SEGMENT LENGTH.
5. KEEP TUBES IN PLACE UNTIL THE CONTRIBUTING AREA HAS BEEN STABILIZED.

MAINTENANCE AND INSPECTION:

1. INSPECT WATTLES AFTER INSTALLATION FOR GAPS UNDER THE TUBES AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF TUBES. ENSURE STAKES ARE ON THE DOWNSTREAM SIDE.
2. INSPECT PROTECTION DEVICE BEFORE AND AFTER RAIN EVENTS, AND WEEKLY THROUGHOUT THE RAINY SEASON. DURING EXTENDED RAIN EVENTS, INSPECT AT LEAST ONCE EVERY 24 HOURS.
3. REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SILT AND DEBRIS TO ALLOW FOR PROPER FUNCTION OF DEVICE.
4. REPAIR ALL RILLS, GULLIES, AND UNDERCUTTING NEAR WATTLES.
5. REMOVE ALL SEDIMENT DEPOSITS WHEN THE SEDIMENT REACHES ½ THE HEIGHT OF THE EXPOSED TUBE.
6. REMOVE AND/OR REPLACE INSTALLED SEDIMENT TUBES AS REQUIRED TO ADAPT CHANGING CONSTRUCTION SITE CONDITIONS.
7. MOST WATTLES ARE FILLED WITH BIODEGRADABLE MATERIALS. WHEN FILL MATERIALS DEGRADE AND SETTLE, THE WATTLE SHOULD BE REPLACED.
8. AT THE END OF THE THE PROJECT, BIODEGRADABLE WATTLES CAN BE SPLIT OPEN, THE NETTING MATERIAL AND STAKES REMOVED, AND THE BIODEGRADABLE MATERIAL LEFT IN PLACE TO AID STABILIZATION.

02 C902

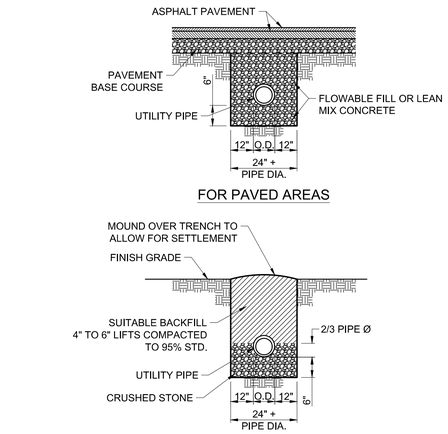
TEMPORARY WATTLE SEDIMENT CONTROL DEVICE
NOT TO SCALE



NOTE:
MATERIALS AND INSTALLATION SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS.

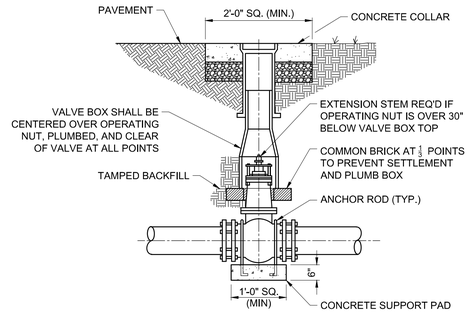
03 C902

WATER LINE CROSSING UNDER OBSTRUCTION
NOT TO SCALE



04 C902

UTILITY BEDDING AND BACKFILL
NOT TO SCALE



07 C902

GATE VALVE
NOT TO SCALE

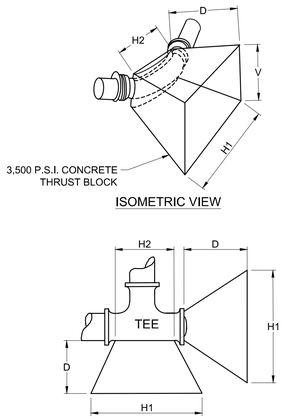


TABLE OF DIMENSIONS					
PIPE SIZE	TAPPING SLEEVES, TEES & PLUGS				
	H1	H2	V	D	C.F.
2"	18"	10"	12"	18"	1.9
3.4"	24"	12"	12"	18"	2.25
6"	24"	16"	18"	18"	3.5
8"	36"	18"	18"	18"	5.05
10"	48"	24"	18"	24"	7.15

PIPE SIZE	90° BENDS				
	H1	H2	V	D	C.F.
2"	18"	10"	12"	18"	1.9
3.4"	24"	12"	12"	18"	2.25
6"	30"	16"	18"	18"	4.05
8"	39"	18"	24"	18"	7.3
10"	54"	32"	24"	18"	10.25

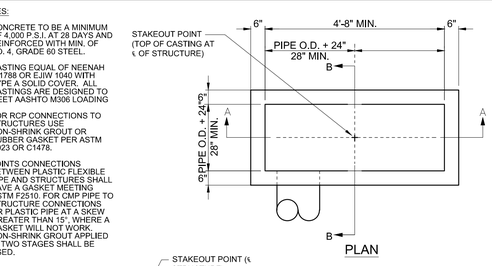
PIPE SIZE	45° BENDS				
	H1	H2	V	D	C.F.
2"	18"	6"	12"	18"	1.5
3.4"	18"	8"	12"	18"	1.6
6"	24"	10"	16"	18"	3.2
8"	30"	11"	18"	18"	3.95
10"	36"	18"	21"	18"	4.6

PIPE SIZE	22-1/2°&11-1/4° BENDS				
	H1	H2	V	D	C.F.
2"	18"	6"	12"	18"	1.5
3.4"	18"	8"	12"	18"	1.6
6"	24"	10"	16"	18"	3.2
8"	24"	11"	18"	18"	3.4
10"	24"	18"	21"	18"	4.6

08 C902

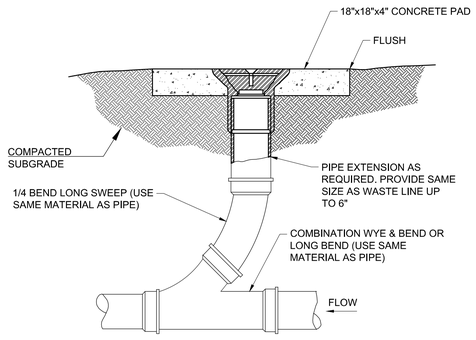
TYPICAL CONCRETE THRUST BLOCKING
NOT TO SCALE

NOTES:
1. CONCRETE TO BE A MINIMUM OF 4,000 P.S.I. AT 28 DAYS AND REINFORCED WITH MIN. OF NO. 4, GRADE 60 STEEL.
2. CASTING EQUAL OF NEENAH R-1788 OR EJIW 1040 WITH TYPE A SOLID COVER. ALL CASTINGS ARE DESIGNED TO MEET AASHTO M306 LOADING
3. FOR RCP CONNECTIONS TO STRUCTURES USE NON-SHRINK GROUT OR RUBBER GASKET PER ASTM C923 OR C1478.
4. JOINTS CONNECTIONS BETWEEN PLASTIC FLEXIBLE PIPE AND STRUCTURES SHALL HAVE A GASKET MEETING ASTM F2510. FOR CMP PIPE TO STRUCTURE CONNECTIONS OR PLASTIC PIPE AT A SKEW GREATER THAN 15°, WHERE A GASKET WILL NOT WORK, NON-SHRINK GROUT APPLIED IN TWO STAGES SHALL BE USED.



09 C902

STORM JUNCTION BOX
NOT TO SCALE



10 C902

TYPICAL CLEANOUT
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11 C902

NOT USED
NOT TO SCALE

12 C902

NOT USED
NOT TO SCALE

Gresham Smith

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