

# **STORMWATER POLLUTION PREVENTION PLAN**

**CONSTRUCTION STANDARDS SHEET INDEX**

**STORMWATER POLLUTION PREVENTION PLAN**  
**BEST MANAGEMENT PRACTICES**

<b><u>SHEET NO.</u></b>	<b><u>TITLE</u></b>
D-700	TEMPORARY EROSION (2 SHEETS)
D-701	CULVERT PROTECTION
D-702	SURFACE ROUGHENING
D-703	TEMPORARY SLOPE DRAIN
D-704	STONE CHECK DAM
D-705	EARTH DIVERSION DIKE (BERM) WITH A CHANNEL
D-706	EARTH DIVERSION DIKE (BERM)
D-707	OFFSITE TRACKING PREVENTION (2 SHEETS)
D-708	FIBER ROLLS
D-709	SEDIMENT BASIN
D-710	SEDIMENT TRAP
D-711	SILT FENCE
D-712	CURB DROP INLET PROTECTION

**CONSTRUCTION STANDARDS SHEET INDEX**

**STORMWATER POLLUTION PREVENTION PLAN**  
**BEST MANAGEMENT PRACTICES**

**SHEET NO.**

**TITLE**

D-713

SURFACE DROP INLET PROTECTION

D-714

STRAW BALE FENCE

# CITY CONTRACTS

REFERENCE FOR OTHERS

## TEMPORARY EROSION & SEDIMENT CONTROL MEASURES (T.E.S.C.M.)

### GENERAL NOTES:

1. THE SOIL RETENTION INSTALLATION DETAILS SHOWN FOR CULVERT PROTECTION SHALL BE USED FOR ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES UTILIZING SOIL RETENTION BLANKETS UNLESS OTHERWISE NOTED.
2. ROCK PLACEMENT USED IN THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE SHEETS SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES UNLESS OTHERWISE INDICATED.
3. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PLACED WITHIN THE CONSTRUCTION CLEAR ZONE SHALL BE INSTALLED WITH 8:1 SLOPES PARALLEL TO TRAFFIC AND 4:1 SLOPES PERPENDICULAR TO TRAFFIC.
- △ 4. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.
5. CHECK DAMS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN THE DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE CHECK DAM.
6. CULVERT PROTECTIONS SHALL BE INSTALLED UPON INITIATION OF EARTH ACTIVITIES AND MAINTAINED AS MUCH AS PRACTICAL UNTIL STABILIZATION IS COMPLETED AND ACCEPTED. CULVERT PROTECTIONS MAY BE REMOVED FOR PERIODS OF TIME AS REQUIRED DURING CONSTRUCTION TO COMPLETE ADJACENT IMPROVEMENTS.
- △ 7. THE CONTRACTOR MAY CONSTRUCT AN EARTH DIKE AS SHOWN, OR RELOCATE THE CHECK DAMS AS CONSTRUCTION PROGRESSES. NO DIRECT PAYMENT SHALL BE MADE FOR RELOCATION OF THE CHECK DAMS.
- △ 8. FOR STORM DRAIN INLET PROTECTION, REMOVE ACCUMULATED SEDIMENT FROM THE AREA AROUND THE DROP INLET WHEN THE CAPACITY IS REDUCED BY 50%.
- △ 9. STRAW BALE FENCES SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN ACCUMULATION REACHES ONE-THIRD OF THE BALE HEIGHT.
- △ 10. FIBER ROLLS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN ACCUMULATION REACHES ONE-HALF THE DISTANCE BETWEEN THEN TOP OF THE FIBER ROLL AND THE GROUND SURFACE.

REV.	DATE
△	1/22/08

NOT TO SCALE

CONSTRUCTION  
STANDARDS

TEMPORARY EROSION  
CONTROL LABELS

STANDARD No. D-700 SHEET 1 OF 2

CITY OF  
FARMINGTON

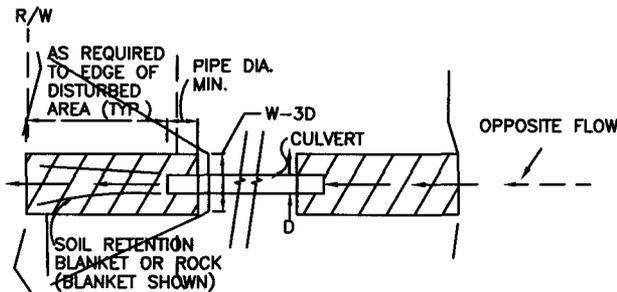
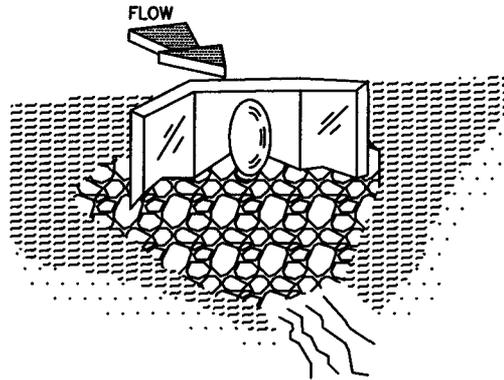
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# CITY CONTRACTS

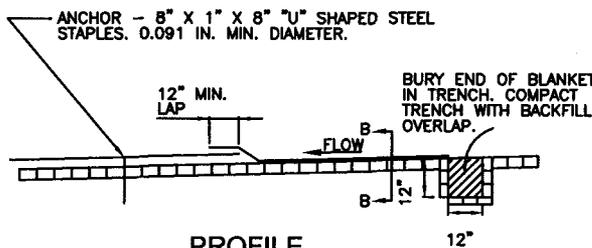
REFERENCE FOR OTHERS



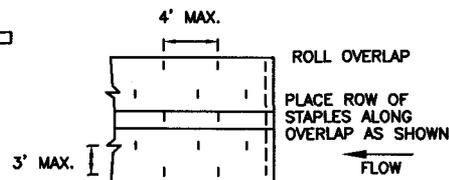
**PROFILE**

**NOTES: CULVERT PROTECTION**

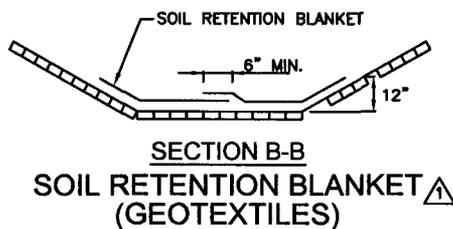
1. WHEN CULVERT PROTECTION IS SPECIFIED, EITHER SOIL RETENTION BLANKETS OR SOIL RETENTION ROCK MAY BE PROVIDED.
2. THE CULVERT PROTECTION WIDTH REQUIRED SHALL BE IN ACCORDANCE WITH THESE DETAILS UNLESS SPECIFIED OTHERWISE.
3. THE SOIL RETENTION BLANKET INSTALLATION SHOWN OUTLINES MINIMUM REQUIREMENTS. MANUFACTURER'S RECOMMENDATIONS SHALL BE USED IF THEY ARE MORE STRINGENT.



**PROFILE**



USE 1" SPACING FOR STAPLES AT BEGINNING OF ROLL AND AT TRAVERSE OVERLAP.



**SECTION B-B  
SOIL RETENTION BLANKET (GEOTEXTILES)**

**SOIL RETENTION BLANKET  
STAPLE PATTERN**



**SECTION B-B  
SOIL RETENTION ROCKS (RIPRAP)**

NOT TO SCALE

REV.	DATE
△	1/22/08

**CONSTRUCTION  
STANDARDS**

**CULVERT PROTECTION**

STANDARD No. D-701 SHEET 1 OF 1

CITY OF  
FARMINGTON  

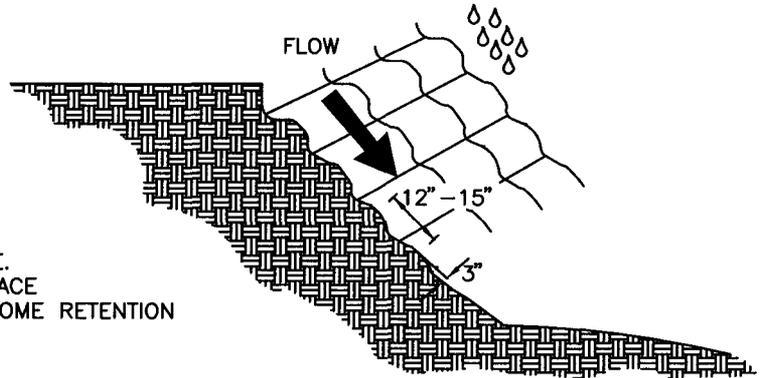
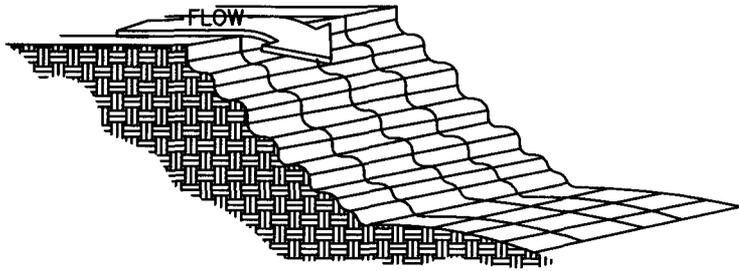
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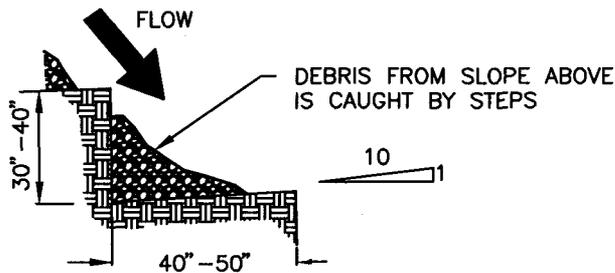
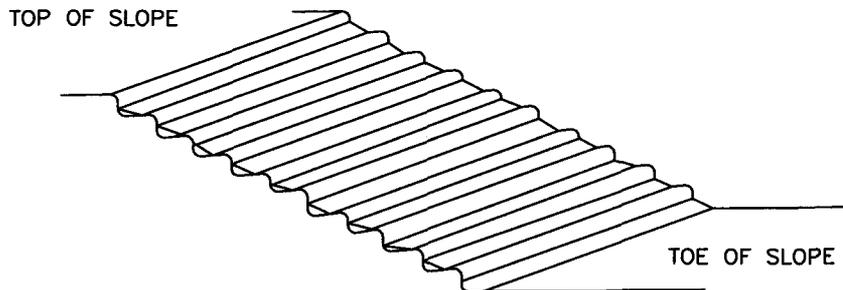
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# CITY CONTRACTS

REFERENCE FOR OTHERS



GROOVING IS CUTTING FURROWS ALONG THE CONTOUR OF A SLOPE. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND PROVIDE SOME RETENTION OF LIME, FERTILIZER AND SEED.



## STAIR-STEPPING CUT SLOPE

NOT TO SCALE

CONSTRUCTION  
STANDARDS

## SURFACE ROUGHENING

CITY OF  
FARMINGTON

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STANDARD No. D-702 SHEET 1 OF 1

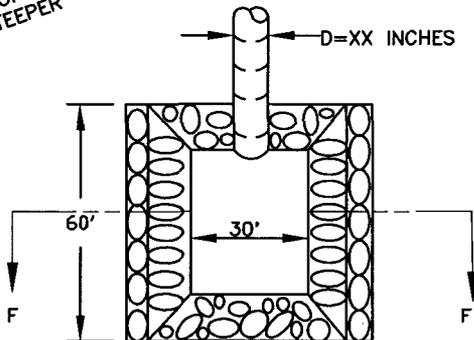
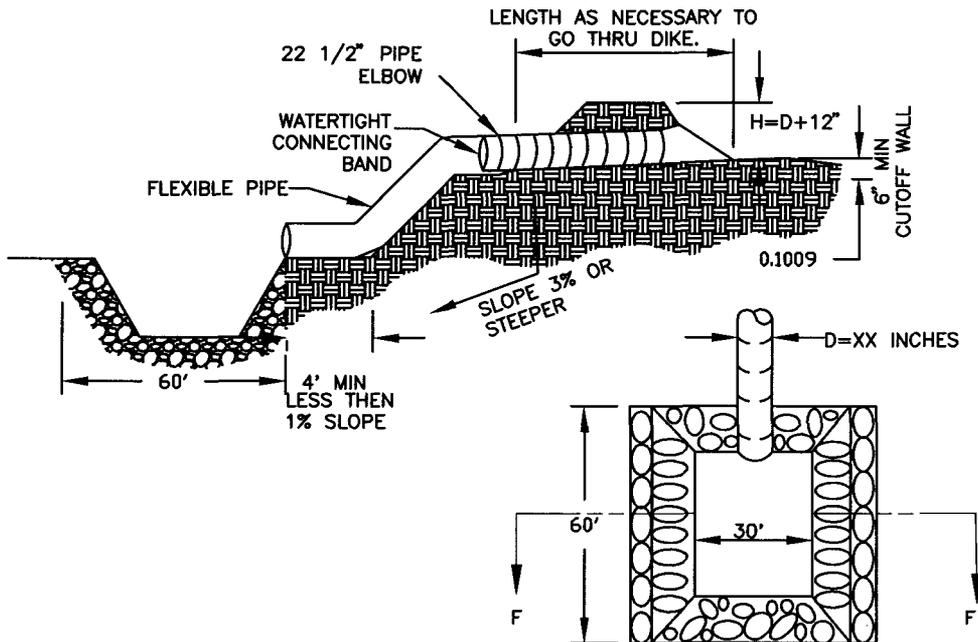
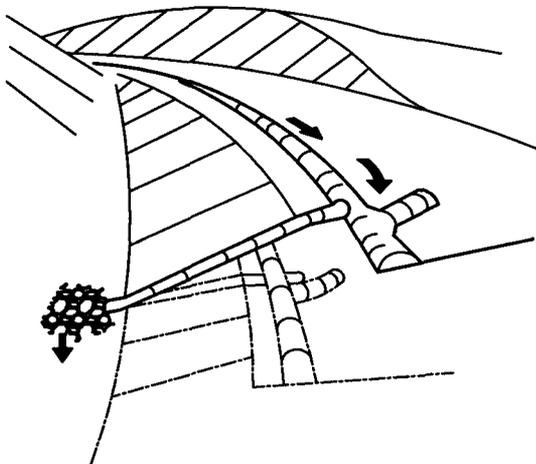
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# CITY CONTRACTS

REFERENCE FOR OTHERS

NOTES: PIPE SLOPE DRAIN

1. THE FLEXIBLE PIPE SHALL BE THE SAME DIAMETER AS THE INLET PIPE AND SHALL BE CONSTRUCTED OF A DURABLE MATERIAL WITH HOLD-DOWN GROMMETS SPACED 10 FT. ON CENTER.
2. THE FLEXIBLE PIPE SHALL BE SECURELY FASTENED TO THE CORRUGATED METAL OR HIGH DENSITY POLYETHYLENE PIPE WITH METAL STRAPPING OR WATERTIGHT CONNECTING COLLARS.
3. THE FLEXIBLE PIPE SHALL BE STAKED AT 10 FT. CENTERS ALONG THE SLOPE USING MINIMUM 4 INCH SQUARE WOOD POSTS OR STANDARD STEEL POSTS DRIVEN 2 FT. MINIMUM INTO THE GROUND, OR EARTHEN THRUST BLOCK.
4. RIGID PIPE SHALL BE ANCHORED AT BENDS. ANCHORAGE SHALL CONSIST OF A MINIMUM OF 4 INCH SQUARE WOOD POSTS OR STANDARD STEEL POSTS DRIVEN 2 FT. MINIMUM INTO THE GROUND, OR EARTHEN THRUST BLOCK.
5. PAYMENT OF BASIN ITEMS ARE INCIDENTAL TO THE COST OF FLEXIBLE STORM DRAIN PIPE.



## RIPRAP APRON PLAN

3:1 OR FLATTER  
12' MIN ROCK PLATING THICKNES



## SECTION F-F NOT TO SCALE

CONSTRUCTION  
STANDARDS

## TEMPORARY SLOPE DRAIN

CITY OF  
FARMINGTON

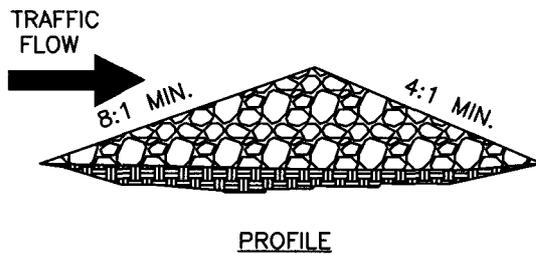
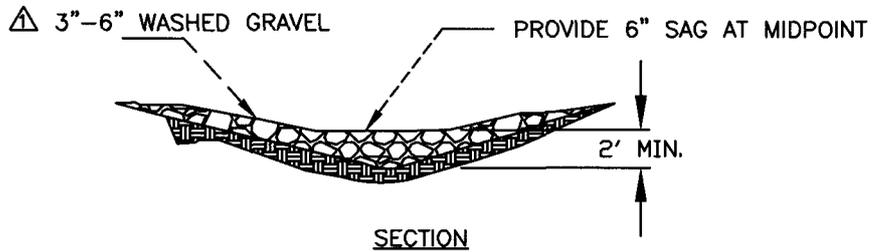
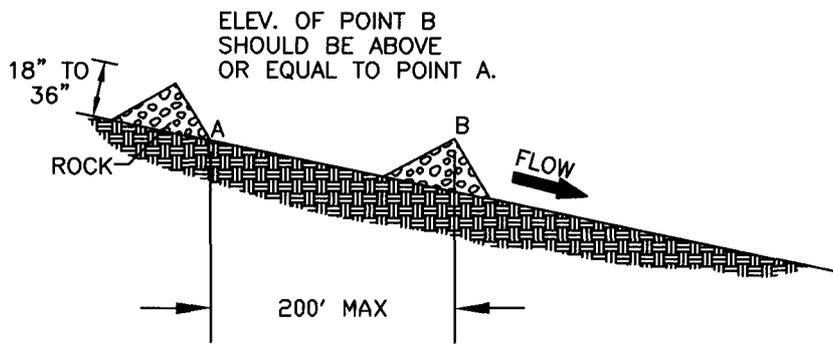
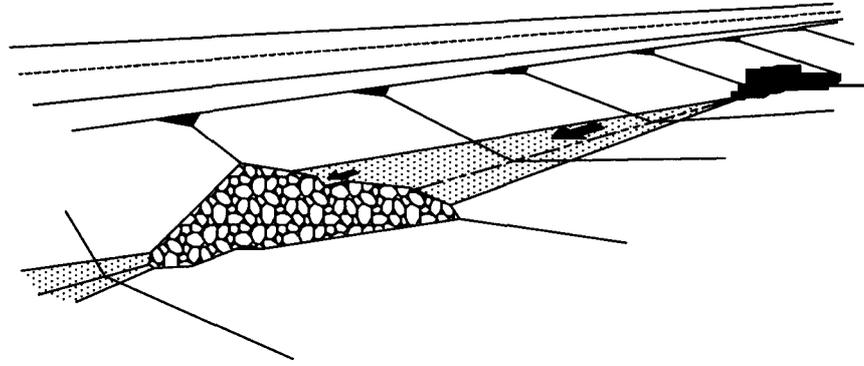
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STANDARD No. D-703 SHEET 1 OF 1

APPROVED *[Signature]* DATE 4/15/08

# CITY CONTRACTS

REFERENCE FOR OTHERS



REV.	DATE
△	05/21/12

NOT TO SCALE

CONSTRUCTION  
STANDARDS

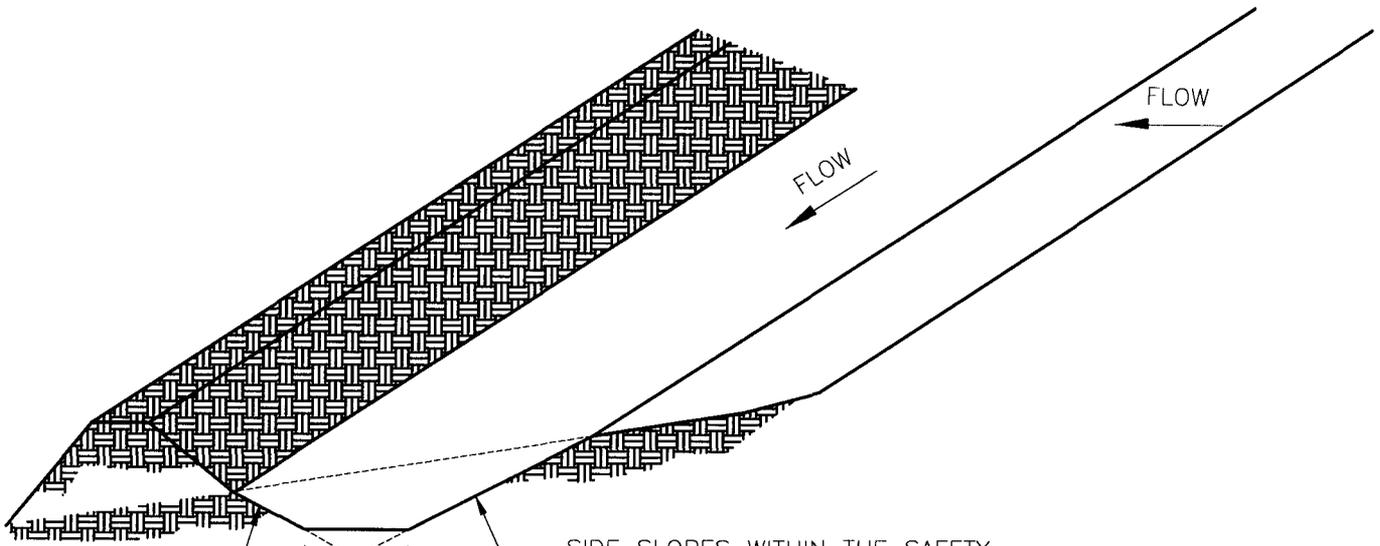
## STONE CHECK DAM

STANDARD No. D-704 SHEET 1 OF 1

CITY OF  
FARMINGTON

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WORKS  
DEPARTMENT

APPROVED *[Signature]* DATE 5/21/12

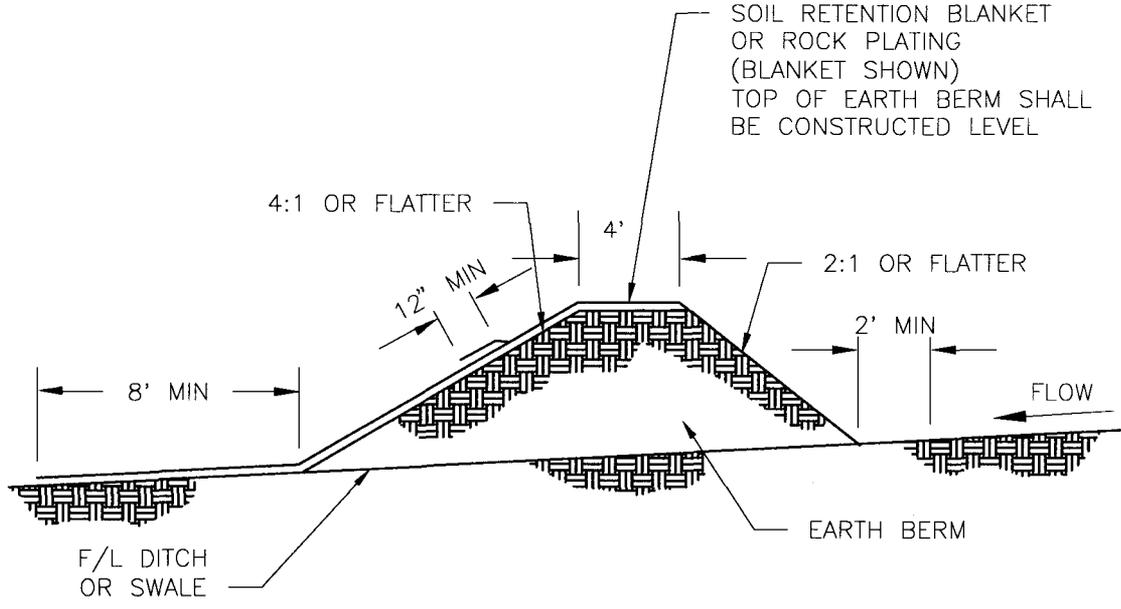


1:2 OR  
FLATTER  
(TYP.)

2'

SIDE SLOPES WITHIN THE SAFETY  
CLEAR ZONE OF A ROADWAY  
SHALL BE 1:6 OR FLATTER

NOT TO SCALE



SOIL RETENTION BLANKET  
OR ROCK PLATING  
(BLANKET SHOWN)  
TOP OF EARTH BERM SHALL  
BE CONSTRUCTED LEVEL

4:1 OR FLATTER

4'

2:1 OR FLATTER

12" MIN

2' MIN

8' MIN

FLOW

F/L DITCH  
OR SWALE

EARTH BERM

**TYPICAL SWALE CONFIGURATION**

NOT TO SCALE

CONSTRUCTION  
STANDARDS

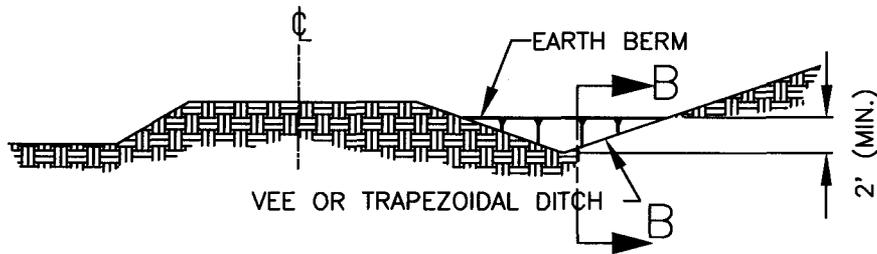
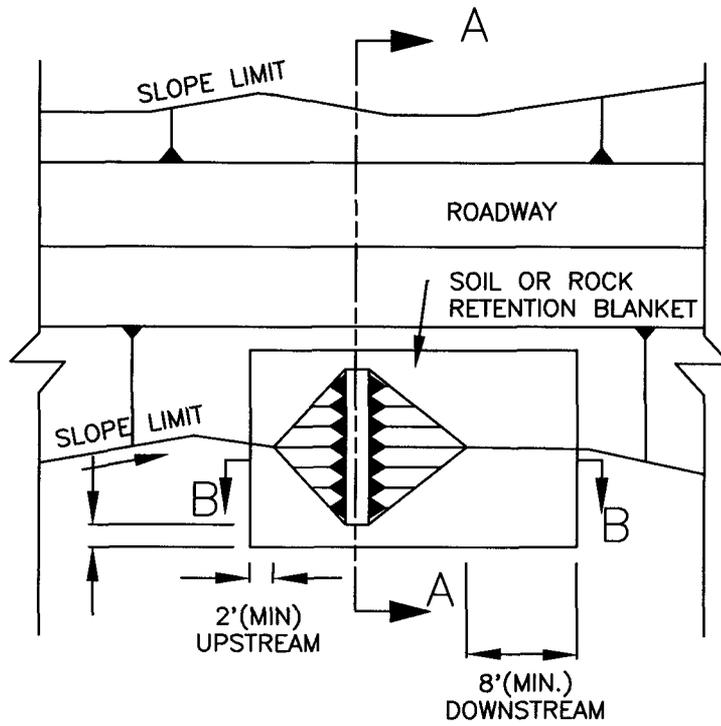
**EARTH DIVERSION  
DIKE (BERM) WITH A CHANNEL**

STANDARD No. D-705 SHEET 1 OF 1

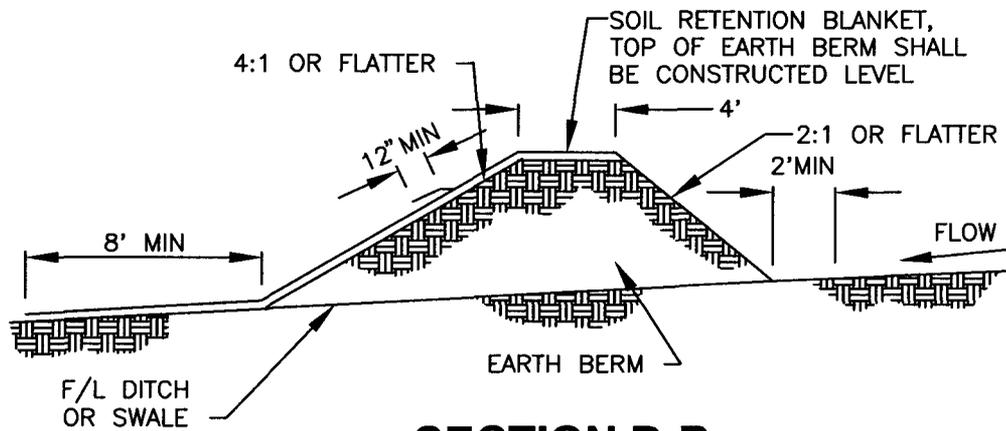
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**SECTION A-A**  
NOT TO SCALE



**SECTION B-B**  
NOT TO SCALE

CONSTRUCTION  
STANDARDS

**EARTH DIVERSION DIKE (BERM)**

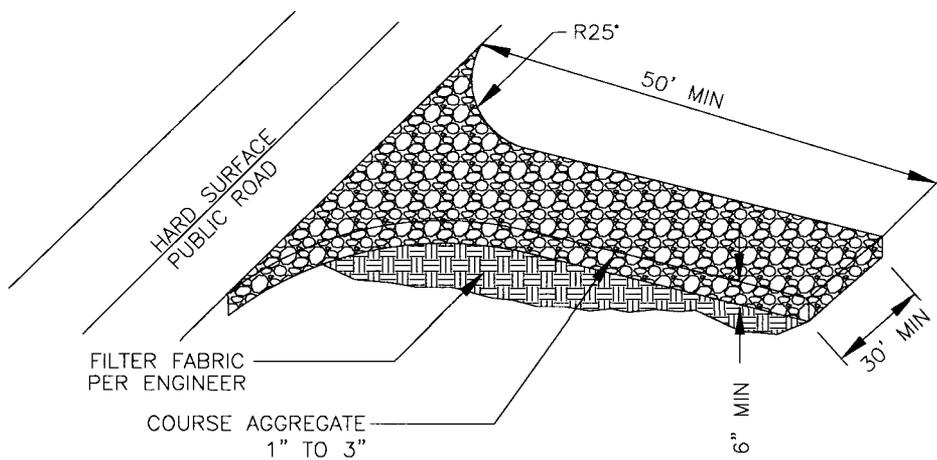
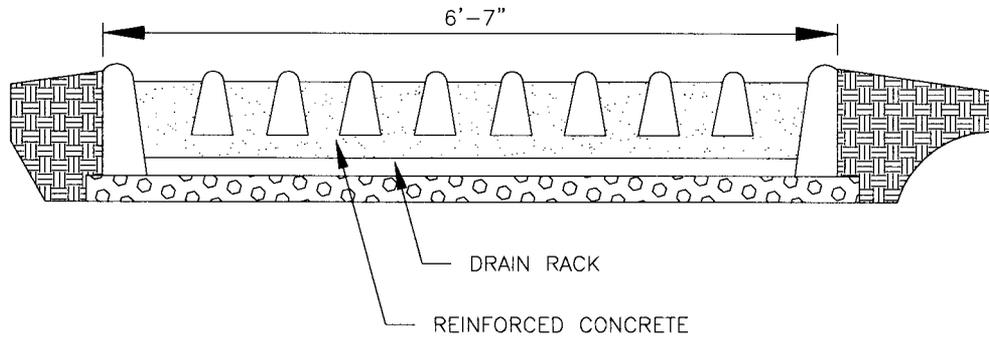
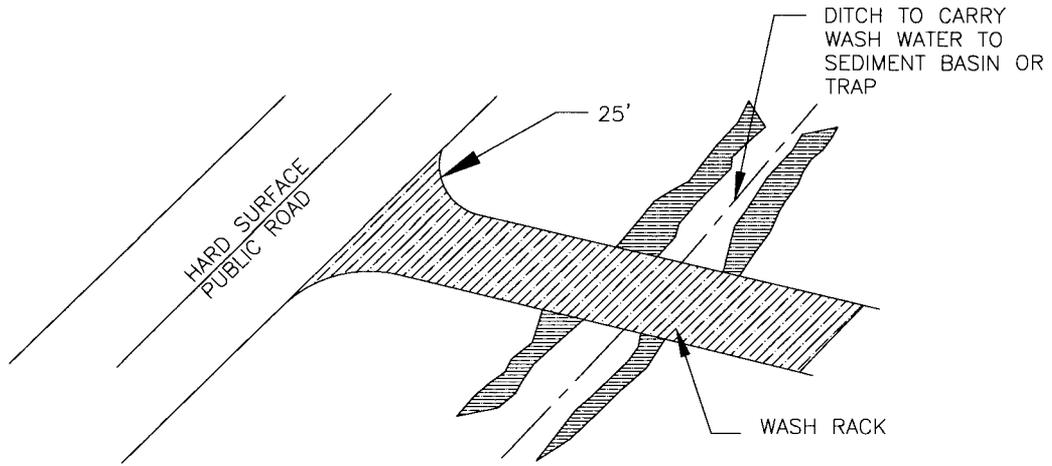
STANDARD No. D-706 SHEET 1 OF 1

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DEPARTMENT

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**CITY CONTRACTS**  
REFERENCE FOR OTHERS



NOT TO SCALE

**CONSTRUCTION  
STANDARDS**

**STATE REQUIREMENTS FOR  
OFFSITE TRACKING PREVENTION**

STANDARD No. D-707 SHEET 1 OF 2

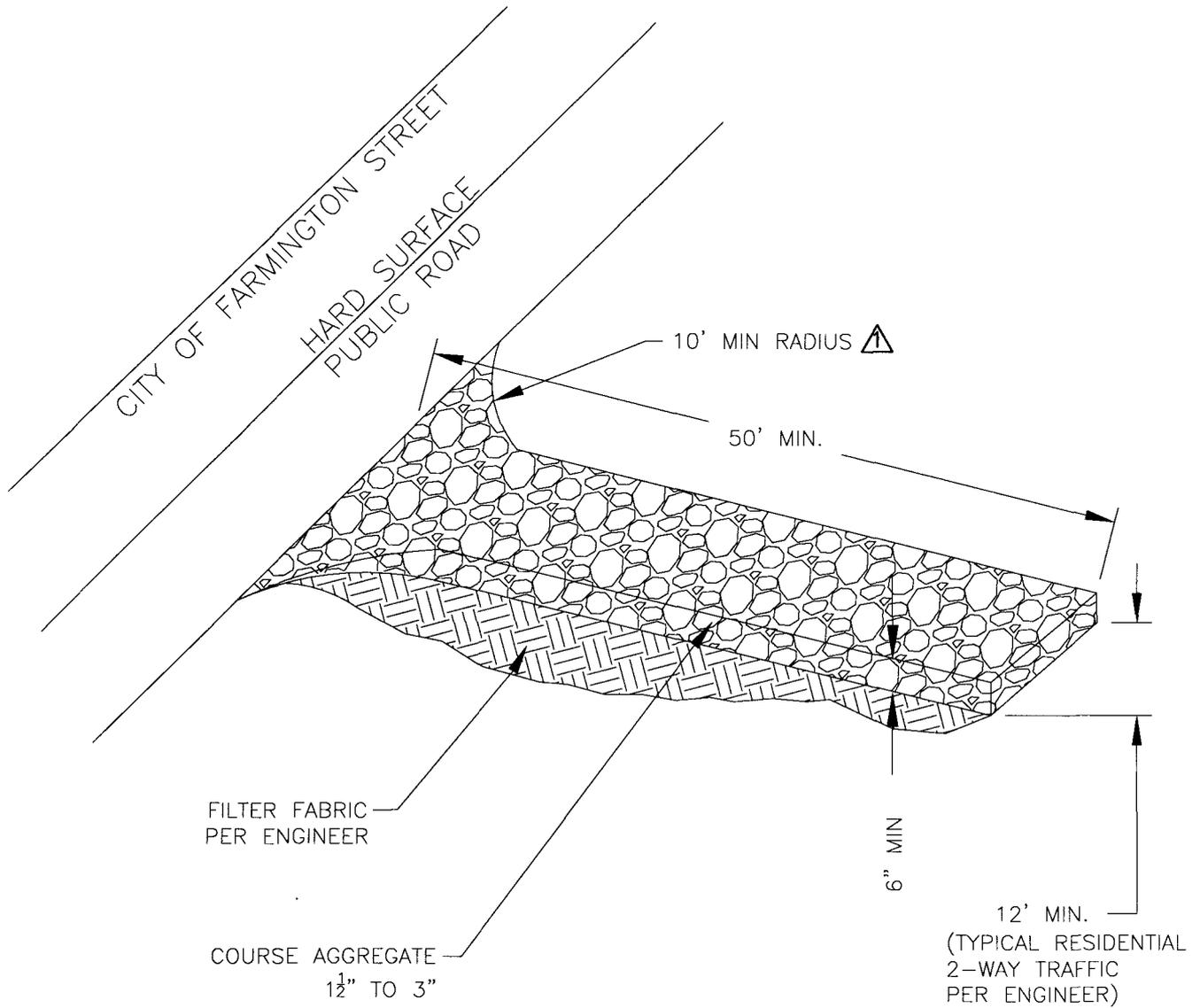
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**PUBLIC  
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DEPARTMENT**

APPROVED *R. West* DATE *4/15/08*

# CITY CONTRACTS

REFERENCE FOR OTHERS



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⚠	1/22/08

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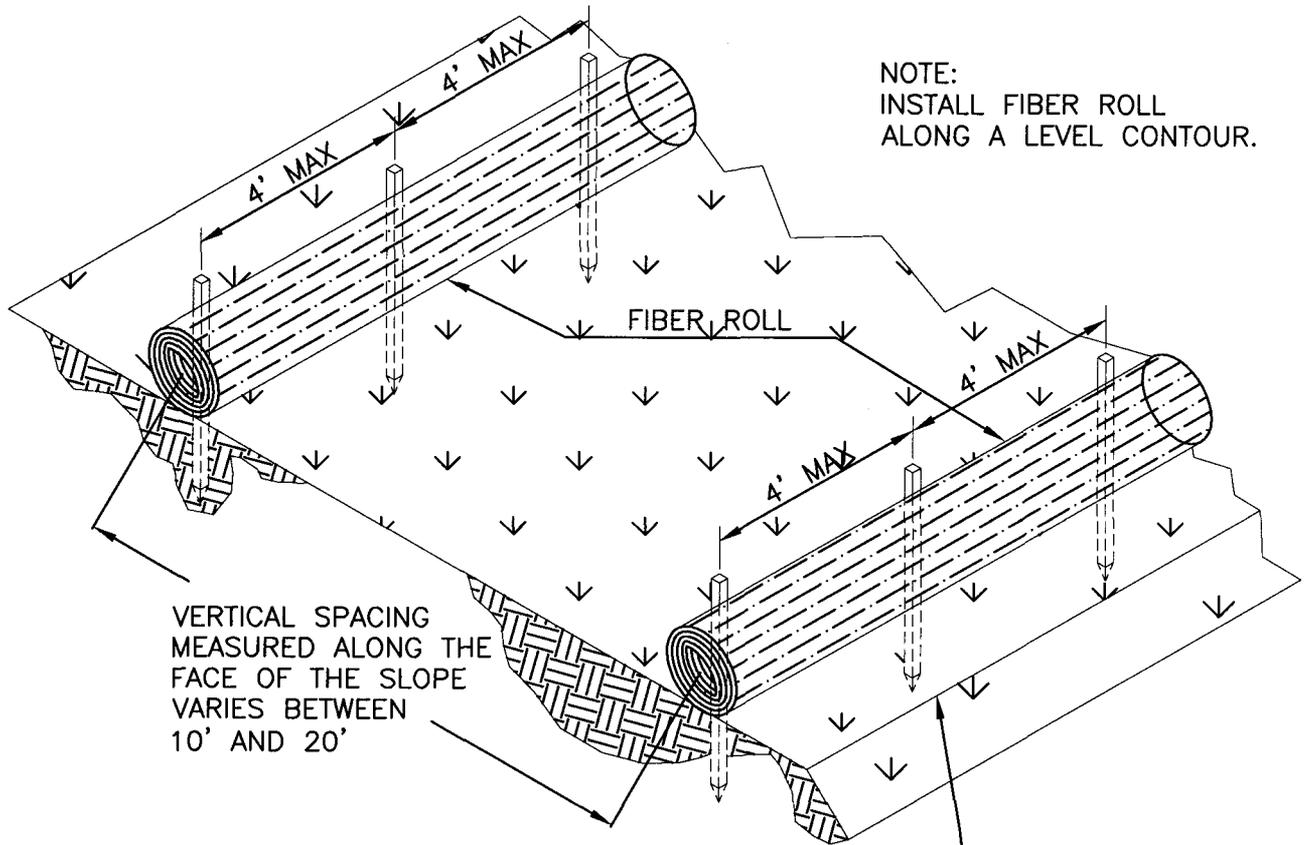
**CONSTRUCTION STANDARDS**

## CITY REQUIREMENTS FOR OFFSITE TRACKING PREVENTION

STANDARD No. D-707 SHEET 2 OF 2

**CITY OF FARMINGTON**  
PUBLIC WORKS DEPARTMENT

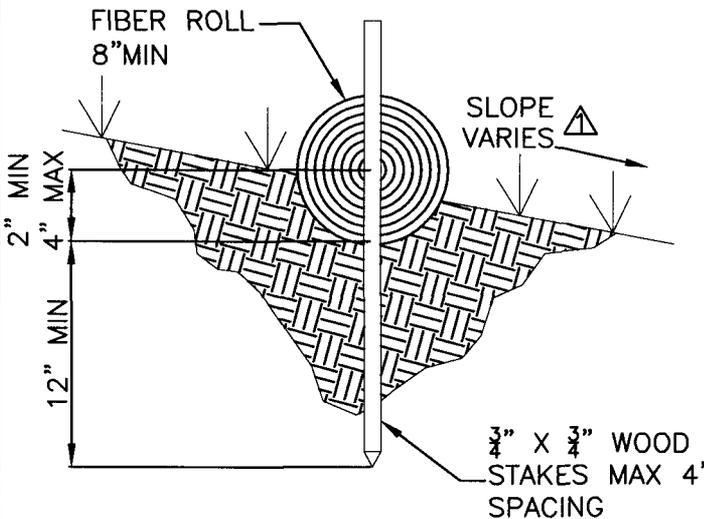
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VERTICAL SPACING MEASURED ALONG THE FACE OF THE SLOPE VARIES BETWEEN 10' AND 20'

TYPICAL FIBER ROLL INSTALLATION

NOTE: INSTALL FIBER ROLL NEAR SLOPE WHERE IT TRANSITIONS INTO A STEEPER SLOPE.



ENTRENCHMENT DETAIL

NOTES: FIBER ROLLS

- 1) BIND ROLLS AT EACH END AND AT LEAST EVERY 4 FEET ALONG THE LENGTH OF THE ROLL WITH JUTE-TYPE TWINE.
- △ 2) IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROWS SHALL BE OVERLAPPED; NOT ABUTTED.
- 3) THE FIBER ROLL INSTALLATION SHOWN OUTLINES MINIMUM REQUIREMENTS. MANUFACTURER'S RECOMMENDATIONS SHALL BE USED IF THEY ARE MORE STRINGENT.

REV.	DATE
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NOT TO SCALE

**CONSTRUCTION STANDARDS**

**△ FIBER ROLLS**

STANDARD No. D-708 SHEET 1 OF 1

CITY OF FARMINGTON

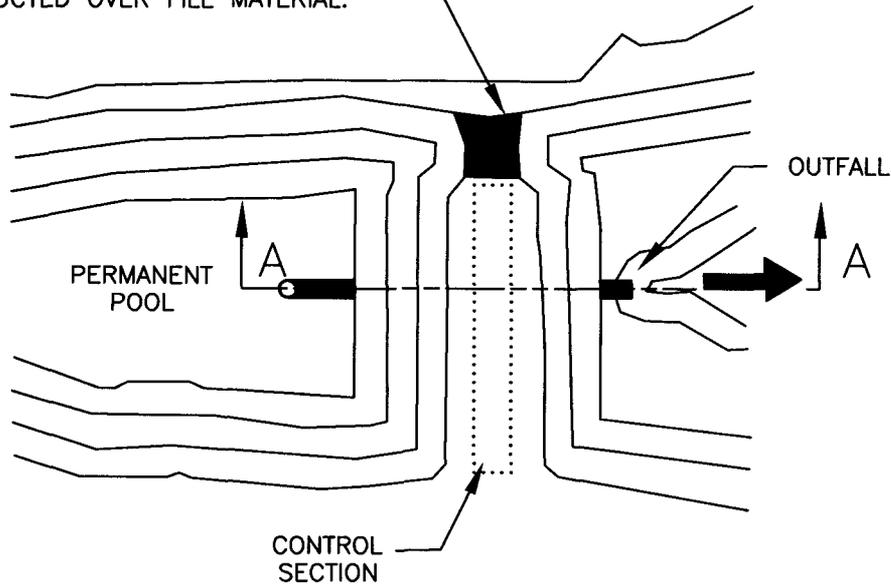
PUBLIC WORKS DEPARTMENT

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# CITY CONTRACTS

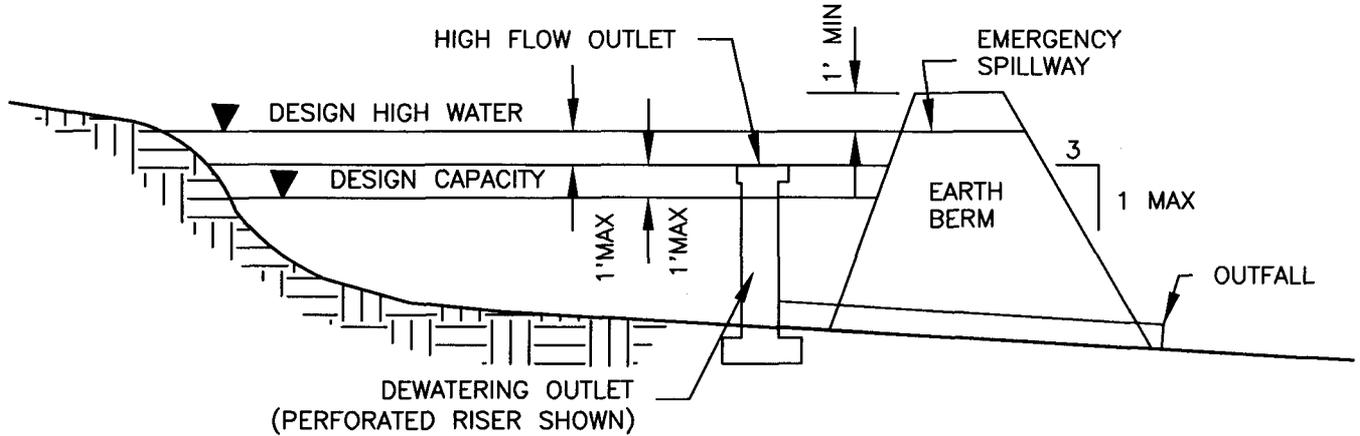
REFERENCE FOR OTHERS

EMERGENCY SPILLWAY SHOULD NOT BE CONSTRUCTED OVER FILL MATERIAL.



## PLAN VIEW

NOT TO SCALE



## CROSS SECTION A-A

NOT TO SCALE

CONSTRUCTION  
STANDARDS

## SEDIMENT BASIN

STANDARD No. D-709 SHEET 1 OF 1

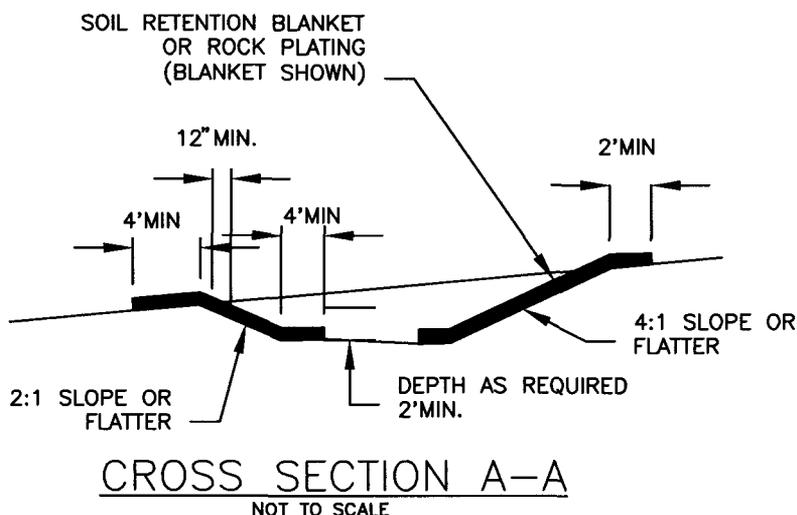
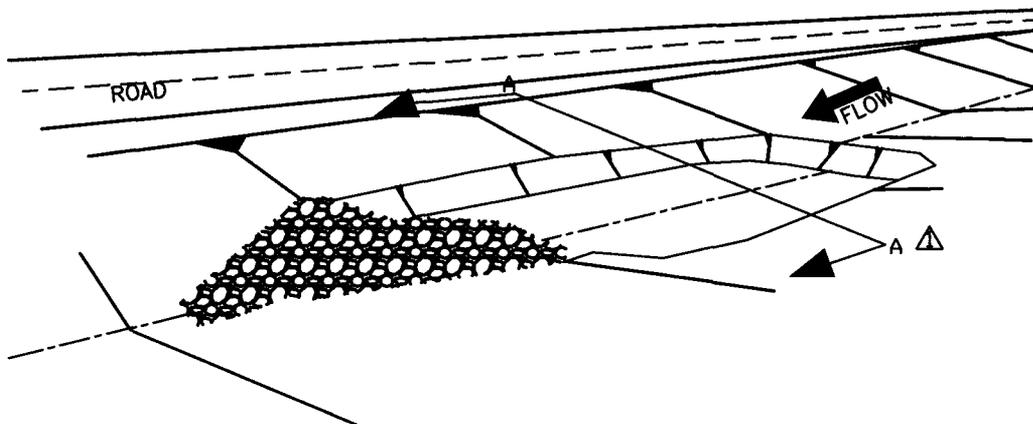
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# CITY CONTRACTS

REFERENCE FOR OTHERS



## NOTES SEDIMENT TRAPS

1. TEMPORARY SEDIMENT TRAPS MAY BE CONSTRUCTED BY EXCAVATION ALONE OR BY EXCAVATION IN COMBINATION WITH AN ENBANKMENT.
- △ 2. TEMPORARY SEDIMENT TRAPS ARE OFTEN USED IN CONJUNCTION WITH A DIVERSION DIKE OR SWALE.
3. THE DRAINAGE AREA FOR THE SEDIMENT TRAP SHOULD NOT EXCEED 5 DISTURBED ACRES.
4. THE TRAP MUST BE ACCESSIBLE FOR EASE OF REGULAR MAINTENANCE, WHICH IS CRITICAL TO ITS PROPER FUNCTIONING.
5. SEDIMENT TRAPS ARE TEMPORARY MEASURES AND SHOULD NOT REMAIN IN PLACE LONGER THAN 18 TO 24 MONTHS.
6. THE ENBANKMENT MAY NOT EXCEED 5 FT. IN HEIGHT.
- △ 7. THE RECOMMENDED MINIMUM WIDTH AT THE TOP OF THE ENBANKMENT IS BETWEEN 2 FT. AND 5 FT. FOR LARGE DEVELOPMENTS, ENGINEER SHALL APPROVE.
- △ 8. MINIMUM STORAGE CAPACITY SHOULD BE 1,800 FT<sup>3</sup> PER ACRE OF TOTAL DRAINAGE AREA.

REV.	DATE
△	1/22/08

**CONSTRUCTION  
STANDARDS**

## SEDIMENT TRAP

STANDARD No. D-710 SHEET 1 OF 1

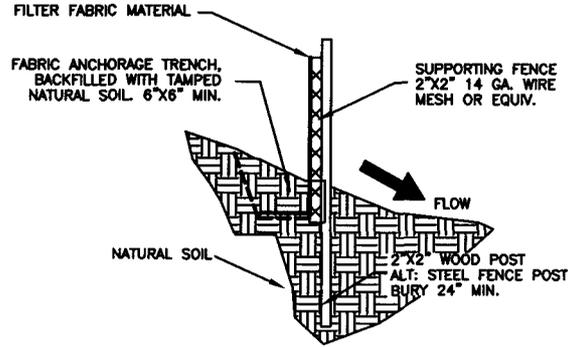
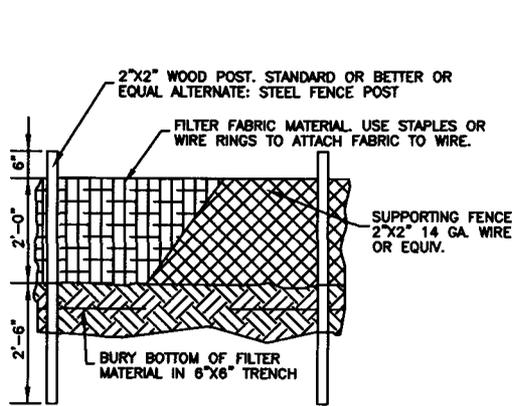
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# CITY CONTRACTS

REFERENCE FOR OTHERS



## SILT FENCE

### NOTES: SILT FENCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE POST SPACING FOR SILT FENCES TO MINIMIZE MAINTENANCE.

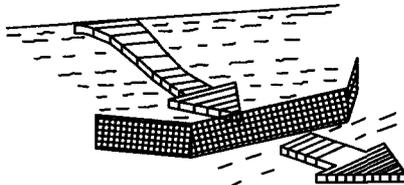
1. POST SPACING SHALL BE 4 FT. MAXIMUM WITHOUT SUPPORTING FENCE, 10 FT. MAXIMUM WITH SUPPORTING FENCE.
2. POSTS FOR 4 FT. MAXIMUM POST SPACING SHALL BE 2 INCH SQUARE NOMINAL SIZE OR HEAVIER WOOD POSTS, OR STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 LB. PER LINEAR FOOT.

POSTS FOR 10 FT. MAXIMUM POST SPACING SHALL BE 4 INCH SQUARE NOMINAL SIZE OR HEAVIER WOOD POSTS, OR STEEL POSTS AS SPECIFIED ABOVE.

3. SUPPORTING FENCE SHALL BE WIRE MESH (14 GA. MIN., 1 INCH MAX. MESH OPENINGS), SNOW FENCE, PLASTIC FENCE, OR APPROVED EQUAL.
4. SUPPORTING FENCE SHALL BE FASTENED SECURELY TO POSTS WITH STAPLES OR WIRE TIES. FILTER FABRIC SHALL BE FASTENED SECURELY TO SUPPORTING FENCE WITH WIRE TIES SPACED AT 2 FT. CENTERS ALONG THE TOP AND MID-SECTION. WHEN A SUPPORTING FENCE IS NOT USED, FILTER FABRIC SHALL BE SECURELY FASTENED TO POSTS WITH STAPLES OR WIRE TIES.

- △ 5. FOR SILT FENCES, RUNOFF FLOW SHOULD NOT EXCEED 0.5cfs AND THE DRAINAGE AREA SHOULD NOT EXCEED 0.25 ACRE PER 100-FOOT FENCE LENGTH.

6. STANDARD "T" OR "U" SECTION STEEL POSTS SHALL NOT BE USED WITHIN THE CONSTRUCTION CLEAR ZONE RECOVERY AREA.



NOT TO SCALE

REV.	DATE
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**CONSTRUCTION  
STANDARDS**

## SILT FENCE

STANDARD No. D-711 SHEET 1 OF 1

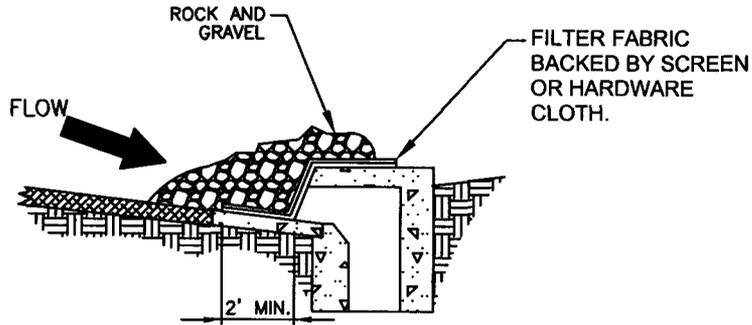
CITY OF  
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# CITY CONTRACTS

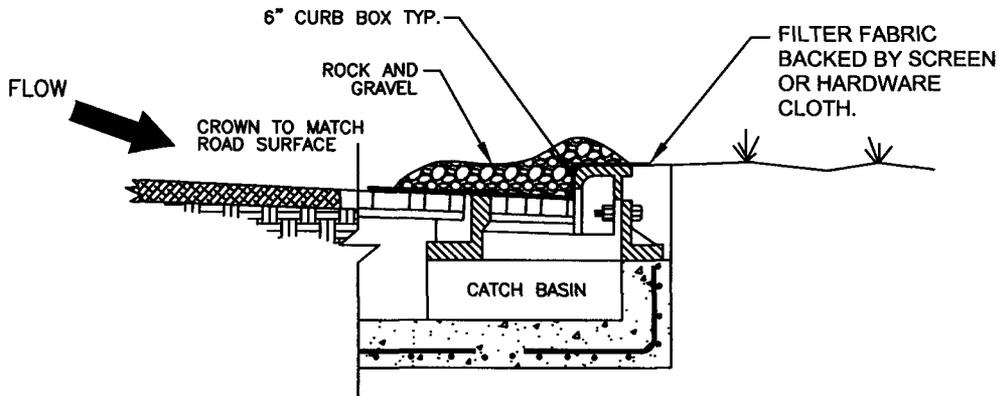
REFERENCE FOR OTHERS



## CURB OPENING

### NOTES: GRAVEL INLET PROTECTION

1. THIS INSTALLATION IS FOR A TYPICAL CURB DROP INLET.
2. THE SPACING OF THE LONGITUDINAL BRACING SHALL NOT EXCEED 5 FT.



## TYPE II CURB DROP INLET

### NOTE:

ALTERNATE PROTECTION OF CITY STRUCTURES NEEDS APPROVAL BY CITY ENGINEER

NOT TO SCALE

CONSTRUCTION  
STANDARDS

## CURB DROP INLET PROTECTION

CITY OF  
FARMINGTON

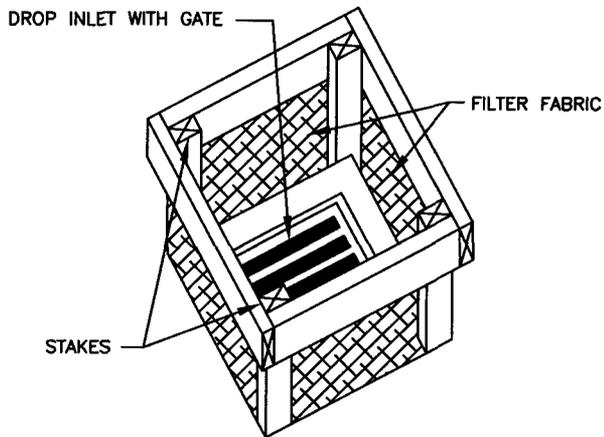
PUBLIC  
WORKS  
DEPARTMENT

STANDARD No. D-712 SHEET 1 OF 1

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# CITY CONTRACTS

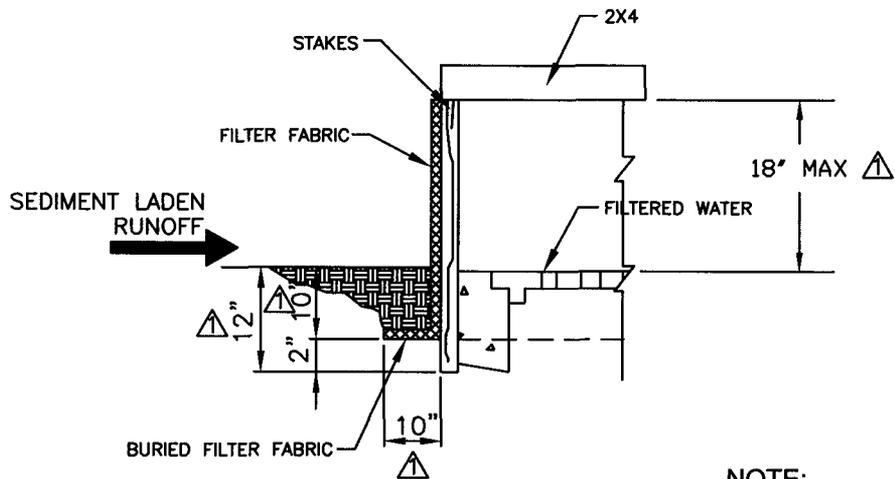
REFERENCE FOR OTHERS



**TYPE I**

**NOTE:**

1. WHEN SPECIFIED, ROCKS OR STRAW BALES CAN BE SUBSTITUTED FOR SILT FENCE.
- ⚠ 2. STAKES SHOULD BE PLACED AT LEAST EVERY THREE FEET.



**NOTE:**

ALTERNATE PROTECTION OF CITY STRUCTURES NEEDS APPROVAL BY CITY ENGINEER

REV.	DATE
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NOT TO SCALE

**CONSTRUCTION STANDARDS**

**SURFACE DROP INLET PROTECTION**

STANDARD No. D-713 SHEET 1 OF 1

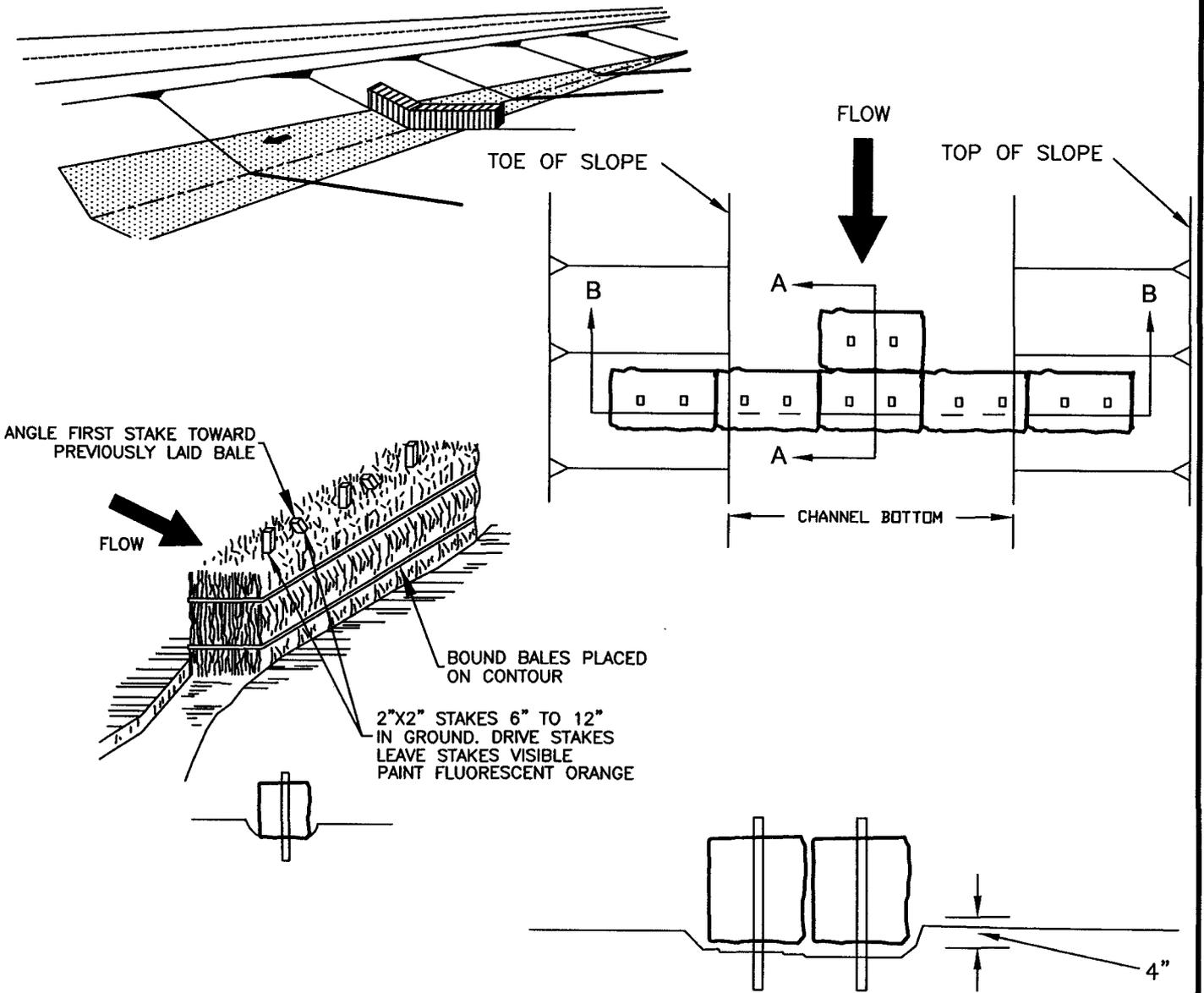
CITY OF FARMINGTON

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APPROVED *[Signature]* DATE 4/15/08

# CITY CONTRACTS

REFERENCE FOR OTHERS



⚠ NOTES: STRAW BALE FENCE

- ⚠ 1. WATER DEPTH SHOULD NEVER EXCEED 1 FOOT AT ANY ONE TIME
- ⚠ 2. BECAUSE STRAW BALE INSTALLATIONS HAVE A HIGH FAILURE RATE CONSIDER OTHER BEST MANAGEMENT PRACTICES FIRST.

SECTION A-A

SECTION B-B

NOT TO SCALE

REV	DATE
⚠	1/22/08

<p><b>CONSTRUCTION STANDARDS</b></p>	<p><b>STRAW BALE FENCE</b></p>	<p>CITY OF FARMINGTON</p> <hr/> <p>PUBLIC WORKS DEPARTMENT</p>
<p>STANDARD No. D-714 SHEET 1 OF 1</p>		

APPROVED *[Signature]* DATE *4/15/08*