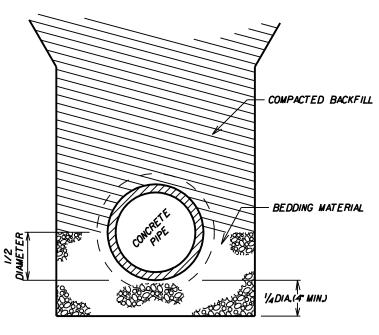


FLEXIBLE PIPE



CONCRETE PIPE

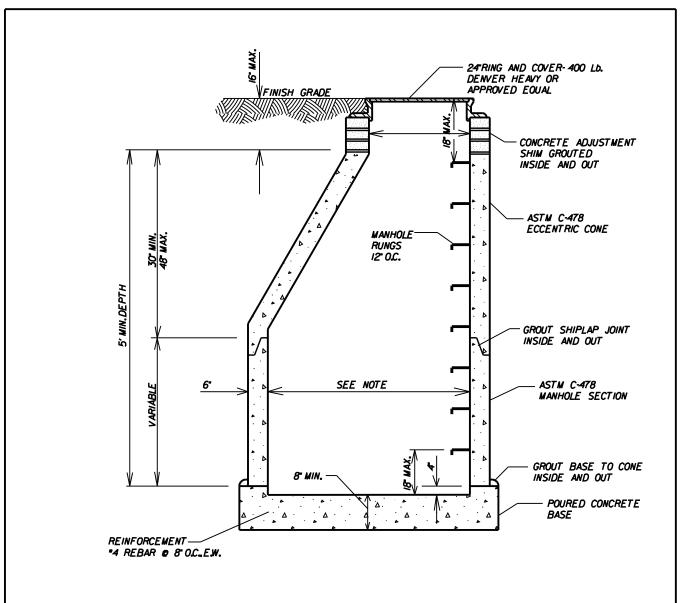


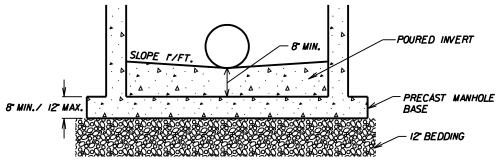
STORM DRAINAGE TYPICAL PIPE BEDDING

> **DETAIL** 300-01

REB

DATE: NOV., 2000





NOTE: MINIMUM INSIDE DIAMETER OF MANHOLE SHALL BE AS FOLLOWS.

 PIPE SIZE
 MIN.MANHOLE

 DIAMETER
 48°

 42 TO 48°
 60°

 54° TO 60°
 72°

ALTERNATE BASE

MAX.400' APART FOR 15" TO 36" LINES MAX.500' APART FOT 42" > LINES.

REVISED 11/2003



STORM DRAINAGE STANDARD MANHOLE

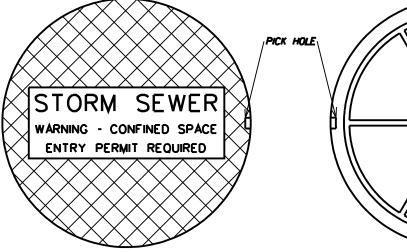
DETAIL 300-02

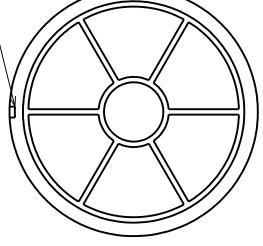
REB

DATE: FEB., 2001

SCALE: NOT TO SCALE







TOP VIEW

BOTTOM VIEW



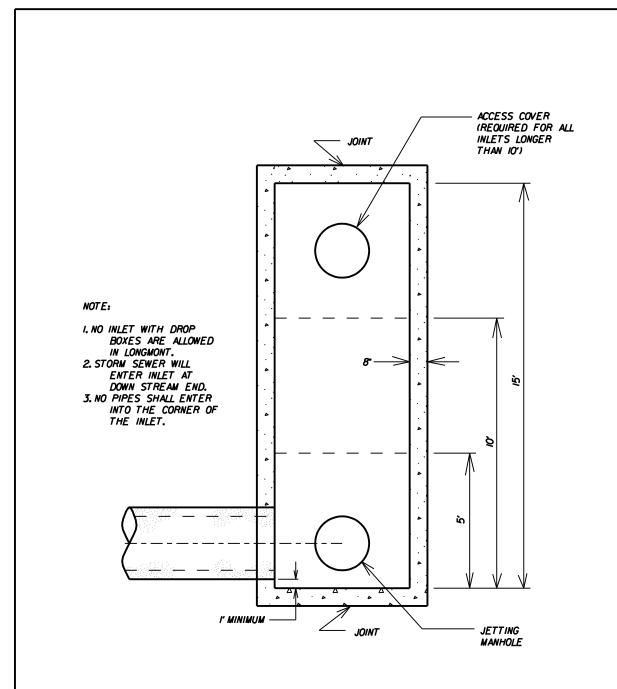
STORM DRAINAGE STANDARD MANHOLE COVER

DETAIL 300-03

REB

DATE: NOV., 2000

SCALE: NOT TO SCALE

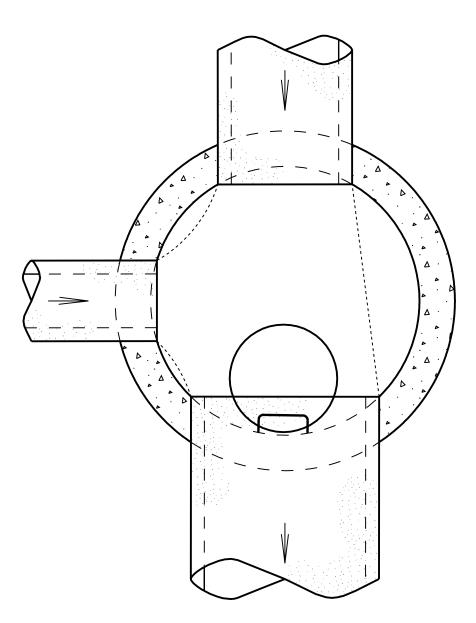




STORM DRAINAGE TYPE R INLET ACCESS LOCATION

DETAIL 300-04

REE



NOTES:

- I. THE MANHOLE COVER SHALL BE LOCATED OVER THE DOWNSTREAM STORM SEWER PIPE EXITING THE MANHOLE.

 2. THIS ALLOWS FOR THE JET NOZZLE TO BE INSERTED DOWN THE MANHOLE COVER, MAKE ONE 90 BEND AND ENTER THE UPSTREAM PIPE LINE. IT IS FED INTO THE PIPE TO THE UPSTREAM MANHOLE. THE WATER JET IS TURNED ON AND PULLED BACK THROUGH THE PIPELINE. THE DIRT AND WATER ARE VACUUMED OUT OF THE MANHOLE INTO A STORAGE TANK.
- 3. IF TWO (OR MORE) PIPES ARE ENTERING THE MANHOLE, THE COVER SHALL BE LOCATED OPPOSITE OF THE TWO PIPES, THE LARGER PIPE BEING THE MORE IMPORTANT.
- 4. STEP ALIGNMENT SHALL BE COORDINATED WITH THE CITY INSPECTOR FOR PIPES GREATER THAN 36".

REVISED 11/03

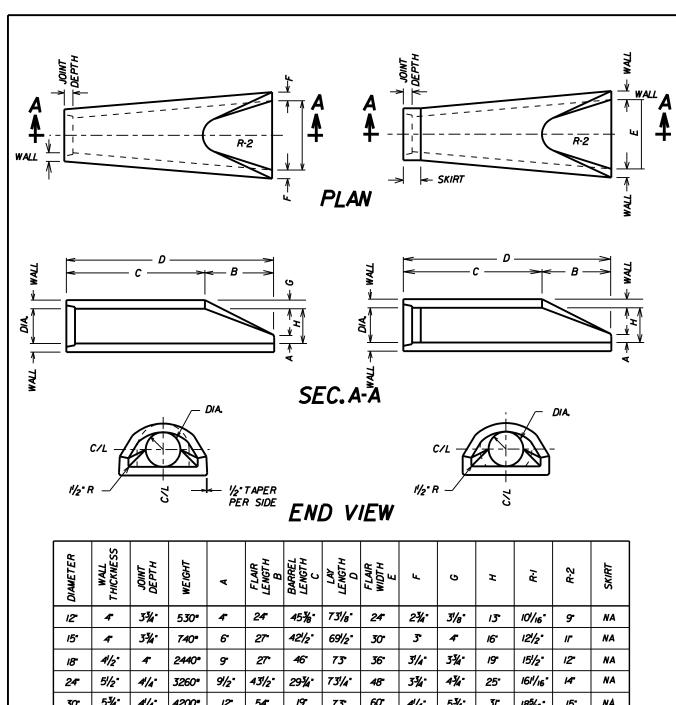


STORM DRAINAGE MANHOLE COVER LOCATION

300-05 DETAIL

REB

DATE: NOV., 2000



DIAWETER	WALL THICKNESS	JOINT DEPTH	WEIGHT	٧	FLAIR LENGTH B	BARREL LENGTH C	LAY LENGTH D	FLAIR WIDTH E	£	9	I	P-1	R-2	SKIRT
12"	4"	3¾*	5 30 °	4"	24"	45%*	731/8"	24"	2¾*	31/8"	13"	101/16"	9"	NA
15*	4	3¾.	740°	<i>6</i> *	27*	421/2"	691/2"	<i>30</i> -	3*	4	<i>16</i> *	121/2"	II"	NA
18"	41/2"	4	2440*	9"	27*	46*	73*	<i>36</i> *	31/4"	3¾*	19"	151/2"	12"	NA
24"	51/2"	41/4"	3260°	9/2"	431/2"	29¾*	731/4"	48"	3¾-	43/4"	25°	1611/16"	14"	NA
<i>30</i> -	5¾*	41/4"	4200°	12	54"	19"	7 3 °	60°	41/4"	5¾·	<i>3r</i>	185/16"	15*	NA
<i>36</i> °	6%*	41/2"	7880°	<i>15</i> *	<i>63</i> °	33¾*	96¾*	72	43/4"	61/16"	37"	241/16"	20°	NA
42"	41/2"	4%	5 <i>380</i> °	21	<i>63</i> °	29"	92	<i>78</i> -	NA	NA	43"	271/4"	22*	13
48"	5*	4%"	6550°	24"	72	20°	92"	84"	NA	NA	481/2"	281/8"	22"	<i>//</i> *
54"	6'/4"	41/4"	8040*	27*	65°	27*	92"	90"	NA	NA	55°	327/8"	24"	<i>//</i> *
60°	6¾*	41/4"	8750°	<i>30</i> °	60°	32	92"	96"	NA	NA	6r	<i>36¾</i> °	24"	// -
72	7*	51/2*	12520*	34"	<i>78</i> -	21"	99"	108"	NA	NA	7 <i>3</i> °	38%*	24	73/4"

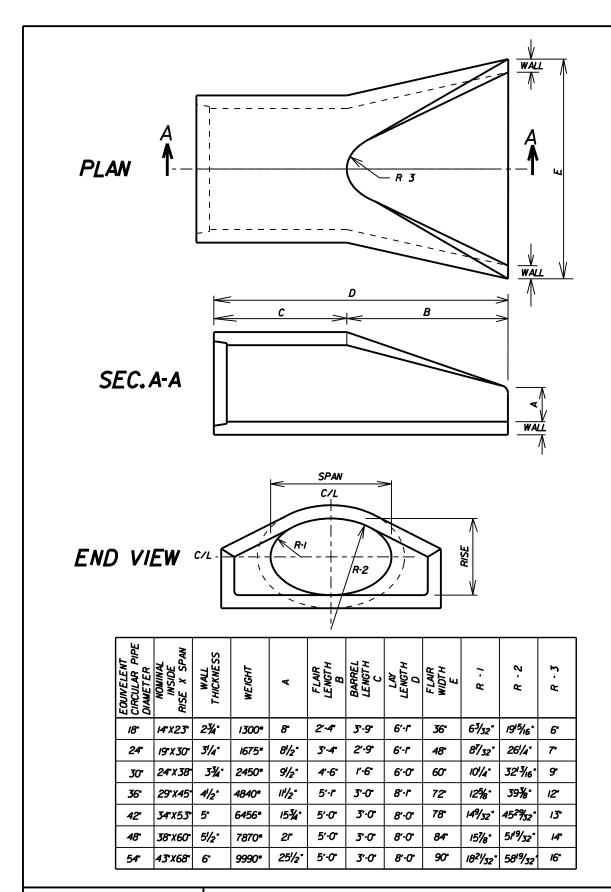


STORM DRAINAGE STANDARD FLARED END SECTION

DETAIL 300-06A

DATE: FEB., 2001

SCALE: NOT TO SCALE

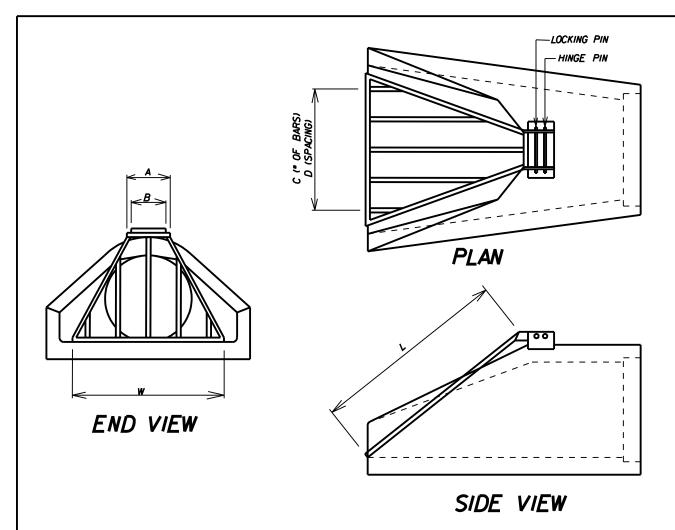




STORM DRAINAGE ELLIPTICAL FLARED END SECTION

DETAIL 300-06B

REB



PIPE DIAMETER	A	B	С	D	w	L
12"	II"	7.5*	3	6*	21	<i>30</i> °
15	9-	5.5*	3	6.5	27-	28"
18-	IO*	6.5*	3	8"	28"	3/*
24"	12	9.5*	5	8	40"	47.5*
30	15*	12.5*	5	9"	5 <i>2</i> -	<i>59.</i> 75*
<i>36</i> *	18"	15.5"	7	8.5*	58°	71.25
42"	21"	I8.5°	7	9	64"	75°
48"	24	21.5*	9	8	70°	82.75*
54"	24	21"	14	6*	84*	84"
60°	24	21"	22	6°	132	108"
72	24"	21"	22	6°	132	108"

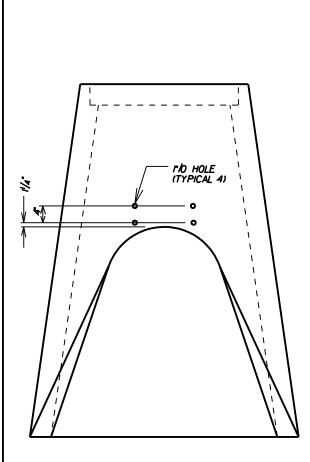


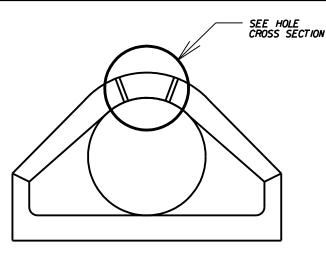
FLARED

STORM DRAINAGE END SECTION TRASH (CIRCULAR PIPE)

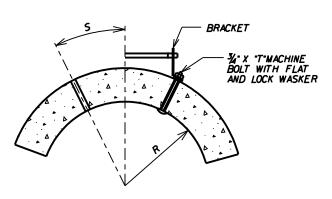
300-06C DETAIL

RACK





END VIEW



PLAN

HOLE CROSS SECTION

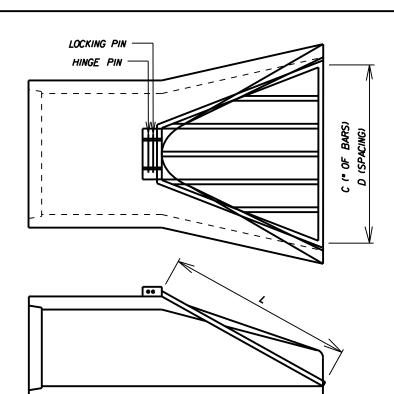
PIPE DIAWETER	R	s	7
12"	8	5.25°	4.5
15*	9.75°	<i>3.5</i> *	475°
18	11.5*	5*	5°
24"	<i>15</i> *	6.5°	5.5*
<i>30</i> *	<i>18.5</i> *	8"	6*
<i>36</i> "	22	9.5*	6.5*
42	25.5°	IF	7*
48"	29"	12,75	7.5*
54"	33.25*	<i>14.5</i> *	8.5°
60°	36.75*	16.25*	9"
72	43.75*	19.75*	//"



Storm Drainage Trash Rack Mounting Detail (Circular Flared End Section)

DETAIL 300-06D

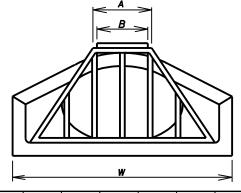
REB



END VIEW

SIDE VIEW

PLAN VIEW



EQUNELENT CIRCULAR PIPE DIAMETER	SPAN	RISE	A	В	c	D	w	L
18"	23	14"	<i>15</i> *	12	4	9.5	<i>38</i> -	<i>30</i> -
24"	<i>30</i> -	19"	20°	17*	4	8.5*	40	<i>39.5</i> *
<i>30</i> -	<i>38</i> *	24"	25*	21.75*	5	9"	5 <i>2</i> *	55°
<i>36</i> °	45°	29"	<i>30</i> °	26,75*	6	9.5*	64"	62 . 75*
42"	5 3 °	34"	<i>35</i> *	31.5*	6	9.5*	64"	65°
48"	60°	<i>38</i> -	<i>39</i> -	36.38	7	9"	70°	67*
54"	<i>68</i> "	43"	45"	42"	10	10"	80°	69°
60°	76°	48*	50⁻	47*	10	10	90°	7/*



STORM DRAINAGE

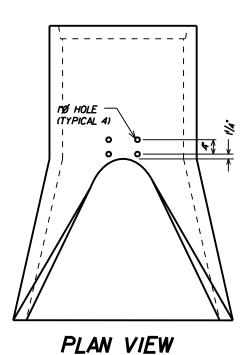
FLARED END SECTION TRASH RACK

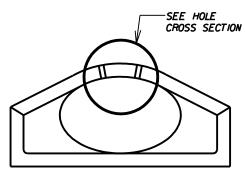
(ELLIPTICAL PIPE)
DETAIL 300-06E

REE

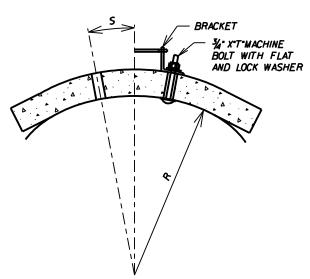
DATE: FEB., 2001

SCALE: NOT TO SCALE





END VIEW



HOLE CROSS SECTION

EQUNELENT CIRCULAR PIPE DIAMETER	NYS	PISE	R	s	7
<i>18</i> -	23*	<i>14</i> *	23	7,75°	4.25*
24	<i>30</i> -	19"	29"	10.25*	5.75°
<i>30</i> -	<i>38</i> -	24	<i>36.25</i> *	12.75*	6.25°
<i>36</i> *	45"	29"	43.5*	15.25	7-
42"	5 3 °	34"	50.5*	17,75*	7.5*
48"	60°	<i>38</i> *	57.63°	20"	8"
54"	<i>68</i> *	43*	<i>63</i> °	23*	8.5*
60°	<i>76</i> *	48"	70"	26*	9"

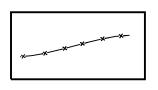


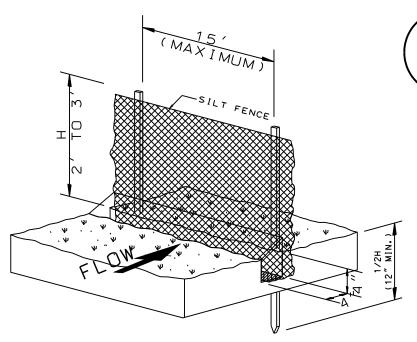
STORM DRAINAGE

TRASH RACK MOUNTING DETAIL (ELLIPTICAL FLARED END SECTION)

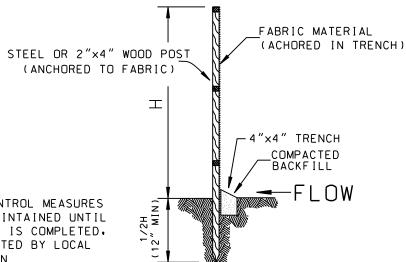
DETAIL 300-06F

REB





SILT FENCE INSTALLATION



NOTE: EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL LANDSCAPING IS COMPLETED. OR AS DIRECTED BY LOCAL JURISDICTION

SECTION -NTS-

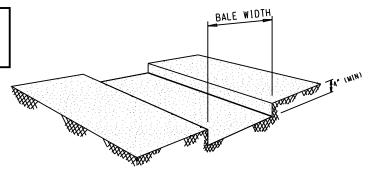
Urban Drainage and Flood Control District Drainage Criteria Manual (V.3)



STORM DRAINAGE FENCE EROSION BARRIER **DETAIL** 300-07

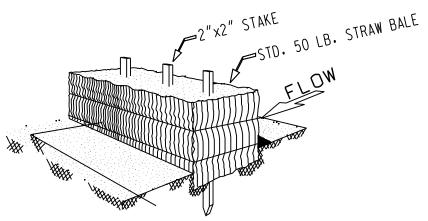
REB

DATE: SEPTEMBER 2005

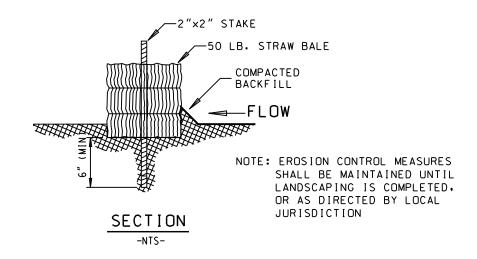




TRENCH EXCAVATION



STRAW BALE INSTALLATION



Urban Drainage and Flood Control District
Drainage Criteria Manual (V.3)

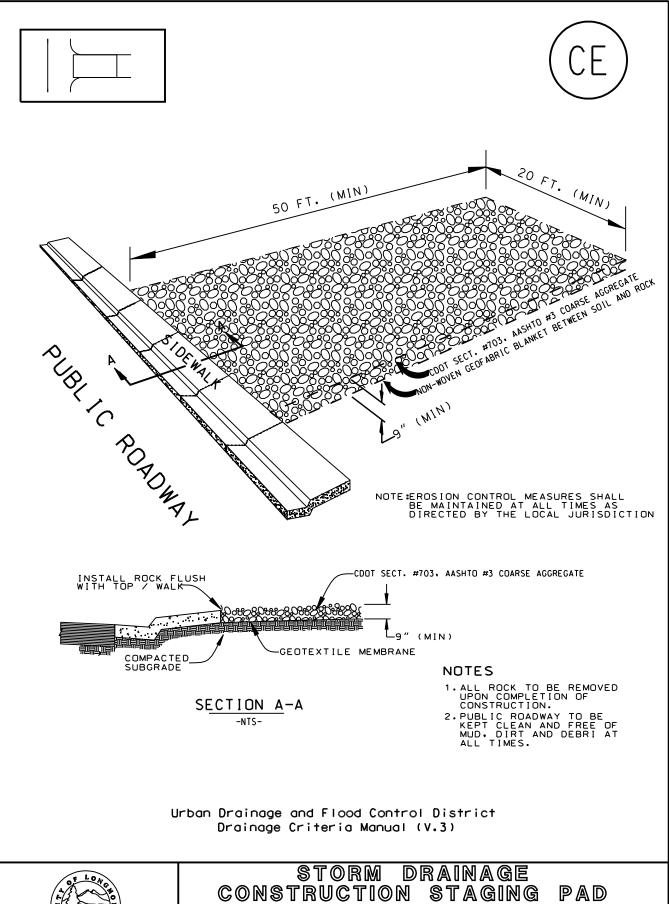


STRAW BALE EROSION BARRIER

DETAIL 300-08

REB

DATE: SEPTEMBER, 2005



PUBLIC WORKS DIVISION

PAD **DETAIL** 300 09

REB

DATE SEPTEMBER, 2005

SCALE: NOT TO SCALE